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Division of Environmental Remediation
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ENVIRONMENT

Subject:
Emerging Contaminant Groundwater Sampling Summary Letter
NYSEG Madison Avenue Former MGP Site
Site No. 8-08-018

Date:
December 18, 2019

Contact:
Bruce W. Ahrens

Phone:
585.662.4034

Email:
bruce.ahrens@arcadis.com

Our ref:
30030318

Dear Mr. MacNeal:

This letter summarizes the work performed and findings of the per- and polyfluoroalkyl substances (PFAS) and 1,4-dioxane (collectively referred to as “emerging contaminants”) groundwater investigation recently completed at the New York State Electric & Gas Corporation (NYSEG) Madison Avenue Former Manufactured Gas Plant (MGP) Site (the site) located in Elmira, New York.

The emerging contaminant groundwater investigation was performed in response to New York State Department of Environmental Conservation’s (NYSDEC’s) request in a May 30, 2018 letter to NYSEG. Arcadis of New York, Inc. (Arcadis) conducted the emerging contaminant groundwater sampling in general accordance with the NYSDEC-approved June 12, 2019 site-specific Emerging Contaminant Sampling Work Plan (work plan), which included the NYSDEC-approved September 14, 2018 New York State Emerging Contaminant Field Sampling Plan (FSP) and Quality Assurance Project Plan (QAPP).

As summarized herein, PFAS compounds (perfluorooctanesulfonic acid [PFOS] and perfluorooctanoic acid [PFOA]) and 1,4-dioxane were detected at low-level concentrations in groundwater samples collected from site monitoring wells.

Relevant background information is presented below, followed by a summary of the groundwater investigation activities and the analytical results.

Site Background

The site occupies most of the city block bounded by East Clinton Street, Madison Avenue and East Fifth Street (also known as Judson Street) in the City of Elmira, Chemung County, New York (see Figure 1). NYSEG currently owns the property

that was occupied by the former MGP operations, with the exception of a storage yard located on the northern portion of the site adjacent to East Fifth Street, which is currently owned by I.D. Booth, Inc. (I.D. Booth), an industrial supply wholesaler.

According to the August 1990 Final Task 4 Report, a public well field is located approximately 1 mile north of the site. Groundwater at the site flows to the south, and the March 2008 Record of Decision (ROD) indicates that the area in the vicinity of the site is served by a public water supply (i.e., site groundwater is not used as a source for drinking water).

Based on the results of multiple site investigations, benzene, toluene, ethylbenzene and xylenes (a subset of volatile organic compounds) and polycyclic aromatic hydrocarbons (a subgroup of semi-volatile organic compounds) are the primary constituents of concern (COCs) at the site. The potential presence of PFAS and 1,4-dioxane in soil and groundwater at the site was not evaluated by the previous environmental site investigations, and; therefore, NYSDEC did not identify these compounds as COCs in the March 2008 ROD.

Groundwater Sampling Activities and Results

Arcadis conducted the groundwater sampling on August 13, 2019 as part of the site's semi-annual operation and maintenance site visit. Prior to sampling, field personnel completed the 1,4-dioxane and PFAS sampling checklist, which is included as Attachment 1. Groundwater sampling was performed using the low flow purging and sampling technique presented in the work plan. Field parameters measured during purging and immediately prior to sampling are presented on the groundwater sampling logs included as Attachment 2.

Arcadis collected groundwater samples from monitoring wells MW-6S, MW-8S and MW-9S. Quality assurance/quality control (QA/QC) samples consisted of, one field duplicate, one matrix spike/matrix spike duplicate, and one field blank. Sampling equipment used was single use/disposable and therefore, an equipment/rinse blank was not collected. Arcadis submitted groundwater samples (and QA/QC samples) to Alpha Analytical, Inc. (Alpha) for the following laboratory analyses:

- 21 PFAS listed in NYSDEC's February 2018 guidance using United Stated Environmental Protection Agency (EPA) Method 537M.
- 1,4-dioxane using EPA Method 8270D using simulated ion monitoring (SIM) mode low-level detection methods.

Analytical results were reported by the laboratory using NYSDEC Analytical Service Protocol (ASP) Category B data deliverables; the laboratory report is included as Attachment 3. Arcadis validated the data and a Data Usability Summary Report (DUSR) is included as Attachment 4.

Validated analytical results are presented in Table 1 and are compared to NYSDEC groundwater screening criteria provided in NYSDEC's June 24, 2019 letter to the Environmental Energy Alliance of New York. PFOS and PFOA were detected at low-level concentrations in each of the three sampled wells. The PFOA concentration detected in monitoring well MW-6S (upgradient well) slightly exceeds the

screening criteria of 10 nanograms per liter (ng/L). Detected concentrations of 1,4-dioxane do not exceed the screening criteria of 1,000 ng/L.

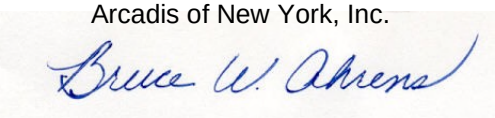
Conclusions

Remedial activities at this site have been completed and the site remedy includes implementation of institutional controls (in the form of an environmental easement) restricting the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the New York State Department of Health and/or the Chemung County Department of Health. In addition, the public water supply is provided by an upgradient source and not influenced by the site. Therefore, the potential for human exposure to any COCs in site groundwater continues to be limited.

Please contact John Ruspantini of NYSEG at 585.484.6787 or JJRuspantini@nyseg.com with any questions or comments regarding the information presented herein.

Sincerely,

Arcadis of New York, Inc.



Bruce W. Ahrens
Associate Vice President

Copies:
John Ruspantini, NYSEG
Jason Golubski, Arcadis

Enclosures:

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4 Data Usability Summary Report

TABLE

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Emerging Contaminants Analytical Results Summary
NYSEG - Madison Ave. Former MGP Site - Elmira, New York

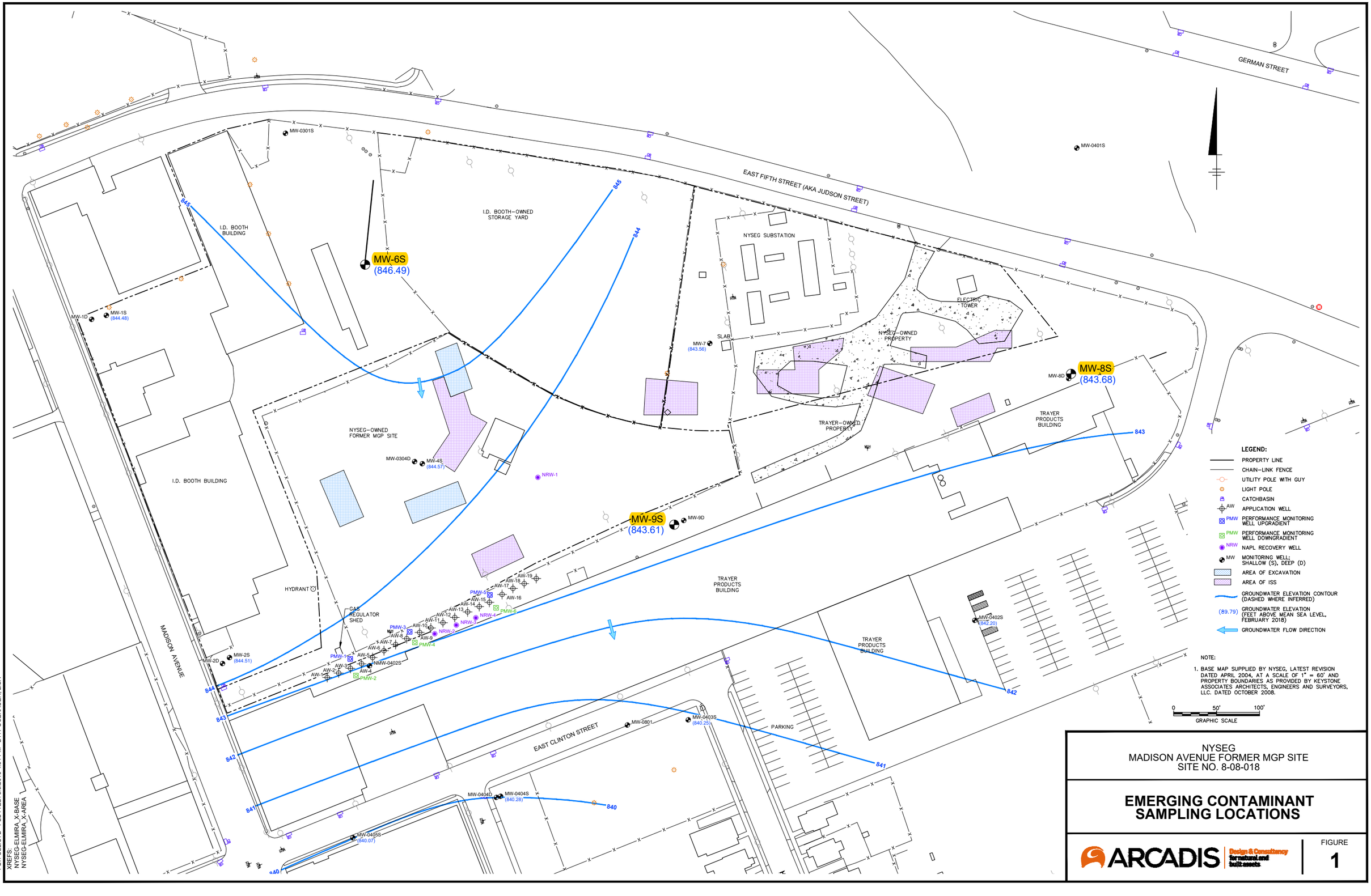
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Location ID: / Date Collected:	NYSDEC Initial Groundwater Screening Level (ng/L) [5]	Units	MW-6S 08/13/19	MW-8S 08/13/19	MW-9S 08/13/19
PFOA/PFOS					
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	--	ng/L	1.81 UJ	1.92 U	1.81 U [1.88 UJ]
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	--	ng/L	1.81 U	1.92 U	1.81 U [1.88 U]
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	--	ng/L	1.81 U	1.92 U	1.81 UJ [1.88 UJ]
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	--	ng/L	1.81 U	1.92 U	1.81 U [1.88 U]
Perfluorobutanesulfonic Acid (PFBS)	--	ng/L	**0.384 J**	1.92 U	**0.71 J [0.812 J]**
Perfluorobutanoic Acid (PFBA)	--	ng/L	**2.53**	1.92 U	**2.22 [2.39]**
Perfluorodecanesulfonic Acid (PFDS)	--	ng/L	1.81 U	1.92 U	1.81 U [1.88 U]
Perfluorodecanoic Acid (PFDA)	--	ng/L	1.81 U	1.92 U	1.81 U [1.88 U]
Perfluorododecanoic Acid (PFDoA)	--	ng/L	1.81 U	1.92 U	1.81 U [1.88 U]
Perfluoroheptanesulfonic Acid (PFHpS)	--	ng/L	1.81 U	1.92 U	1.81 U [1.88 U]
Perfluoroheptanoic Acid (PFHpA)	--	ng/L	**1.21 J**	1.92 U	**0.812 J [0.789 J]**
Perfluorohexanesulfonic Acid (PFHxS)	--	ng/L	1.81 U	1.92 U	1.81 U [1.88 U]
Perfluorohexanoic Acid (PFHxA)	--	ng/L	1.81 UB	1.92 UB	1.81 UB [1.88 UB]
Perfluorononanoic Acid (PFNA)	--	ng/L	1.81 U	**0.475 J**	**0.486 J [0.677 J]**
Perfluorooctanesulfonamide (FOSA)	--	ng/L	1.81 UJ	1.92 UJ	1.81 UJ [1.88 UJ]
Perfluorooctanesulfonic Acid (PFOS)	10	ng/L	**2.74**	**1.48 J**	**2.06 [1.86 J]**
Perfluorooctanoic Acid (PFOA)	10	ng/L	**11.8**	**1.2 J**	**1.18 J [1.25 J]**
Perfluoropentanoic Acid (PFPeA)	--	ng/L	**0.547 J**	**0.797 J**	**0.612 J [0.883 J]**
Perfluorotetradecanoic Acid (PFTA)	--	ng/L	1.81 U	1.92 U	1.81 U [1.88 U]
Perfluorotridecanoic Acid (PFTrDA)	--	ng/L	1.81 U	1.92 U	1.81 U [1.88 U]
Perfluoroundecanoic Acid (PFUnA)	--	ng/L	1.81 U	1.92 U	1.81 U [1.88 U]
Semivolatile Organics					
1,4-Dioxane	1,000	ng/L	144 U	144 UB	144 U [150 U]

Acronyms and Abbreviations:
B - The analyte was detected above the reporting limit in the assiciated method blank.
J - Indicates an estimated value.
ng/L - nanograms per liter (or parts per trillion [ppt]).
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
[ ] - Indicates duplicate sample.

Notes:
1. Groundwater samples analyzed by Alpha Analytical of Westborough, Massachusetts.
2. 1,4-Dioxane was analyzed using United States Protection Agency (USEPA) Method 8270 using simulated ion (SIM) monitoring mode low level detection methods.
3. Groundwater samples were analyzed for the 21 PFAS listed in New York State Department of Environmental Conservations February 2019 guidance using USEPA Method 537M.
4. Data have been validated.
5. PFOA/PFOS and 1,4-dioxane groundwater screening criteria provided in NYSDEC's June 24, 2019 letter to the Environmental Energy Alliance of New York.
6. Bold values exceed the method detection limit.
7. Shaded results exceed the applicable screening values.

FIGURE



NYSEG
MADISON AVENUE FORMER MGP SITE
SITE NO. 8-08-018

EMERGING CONTAMINANT SAMPLING LOCATIONS

ARCADIS Design & Consultancy for natural and built assets

FIGURE 1

CITY: SYRACUSE_NY DIV/GROUP: EBC-IM/DV DB: L.POSENAUER PM/TM: J.BRIEN TR: J.SINAY LYR:(Opt)ON=*;OFF=*REF*
C:\BIM\OneDrive - ARCADIS\BIM 360 Docs\ANA - IBERDROLA USA\Change to Project Name\2019\Change to Billing Number\01-DWG\Elmira\NYSEG-ELMIRA_FIG01-PLTFULL.CTB PLOTTED: 5/6/2019 4:31 PM BY: POSENAUER, LISA
XREFS:
NYSEG-ELMIRA_X-BASE
NYSEG-ELMIRA_X-AREA
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ATTACHMENT 1

1,4-Dioxane and PFAS Sampling Checklist

1,4 DIOXANE AND PFAS SAMPLING CHECKLIST

Site Name: NYSEG - Former Elmira MGP **Task:** Groundwater Sampling

Weather (temp/precip): Overcast w/ drizzle and 70-75° Sun **Date:** 8/13/19

Field Clothing and PPE:

- [x] Ansell TNT® Powder-Free Nitrile Gloves ONLY
- [x] No clothing or boots containing Gore-Tex™
- [x] No clothing or boots treated with water-resistant spray
- [x] Safety boots made from polyurethane and PVC or leather boots covered with overboots
- [x] No materials containing Tyvek®
- [x] Field crew has not used fabric softener on clothing
- [x] Field crew has not used cosmetics, moisturizers, hand cream, or other related products this morning
- [x] Field crew has not applied unauthorized sunscreen or insect repellant
- [x] Samplers don fresh nitrile gloves for each sample collected

Field Equipment:

- [x] No Teflon® or LDPE containing materials other than QED brand LDPE
- [x] All sample materials made from stainless steel, HDPE, acetate, silicon, or polypropylene or QED brand LDPE
- [x] No waterproof field books, waterproof paper or waterproof bottle labels, waterproof markers/Sharpies®
- [x] No plastic clipboards, binders, or spiral hard cover notebooks
- [x] No Post-It Notes®
- [x] Coolers filled with regular ice only; no chemical (blue) ice packs in possession

Sample Containers:

- [x] Containers for PFASs Shipped in separate cooler
- [x] Sample containers made of HDPE or polypropylene
- [x] Caps are unlined and made of HDPE or polypropylene

Wet Weather (as applicable):

- [x] Wet weather gear made of polyurethane and PVC only

Equipment Decontamination:

- [x] "PFAS-free" water on-site for decontamination of sample equipment; no other water sources to be used
- [x] Alconox® or 7th Generation Free & Clear Dish Soap to be used as decontamination cleaning agents

Food Considerations:

- [x] No food or drink on-site with exception of bottled water and/or hydration drinks (*i.e.*, Gatorade® and Powerade®) that is available for consumption only in the staging area

Vehicle Considerations:

- [x] Avoid utilizing areas inside vehicle as sample staging areas

If any applicable boxes cannot be checked, the field team leader shall describe the deviations on the back and work with field personnel to address issues prior to commencement work. See additional information on the back of this form.

Sampling Equipment and Supply Summary (include brand names and serial numbers where available)

Decontamination Fluid Source(s): Alconox was onsite, but not needed for peri-pump.

Soap and other fluids used: None

Gloves: nitrile Gloves (Powder Free) Rope: No rope used.

Sampling Equipment: YSI PRO DSS (17E100136/16C103917); Heron dipper-T WLM (3939-T); LDPE tubing & C-Flex Tubing.

Field Team Names: Ryan Clare & Sierra Tweedie

Field Team Leader Signature: Ryan Clare

Deviation Summary:

If possible, materials identified as potentially containing PFASs should be relocated to a separate area of the site as far away as possible from the sampling location(s) and containerized if practicable. Notes should include method of response including type of materials on site and how they were moved and containerized.

Sampling was not staged inside of vehicle.
Food was not consumed near sampling area or while sampling.
Rain gear was not worn during sampling as rain was only a drizzle.

Field Team Leader Name: Ryan Clare

Field Team Leader Signature: _____ **Time:** 0800

ATTACHMENT 2

Groundwater Sampling Logs

GROUNDWATER SAMPLING LOG

Site: Madison Ave Former MGP | **NYSEG Elmira, NY** | **Event:** August (Q26) 2019 GW Sampling

Sampling Personnel: Ryan Clare and Sierra Tweedie
Well ID: MW-8S
Client / Job Number: NYSEG / 30003462 (EC Sampling – 30030318)
Date: 8/13/2019
Weather: Overcast; Drizzle, 72°
Time In: 0830 **Time Out:** 0950

Well Information

Depth to Water:	6.69	(feet TIC)
Total Depth:	14.01	(feet TIC)
Length of Water Column:	7.32	(feet)
Volume of Water in Well:	1.2	(gal)
Screen Interval:	—	(feet)
Depth to pump Intake:	≈ 12'	(feet TIC)

Well Type:	(Flushmount)	Stick-Up
Well Material:	(Stainless Steel)	PVC
Well Locked:	Yes	(No)
Measuring Point Marked:	Yes	(No)
Well Diameter:	(2")	4"

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	Polyethylene	Teflon	(Other: HDPE)
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:

Duration of Pumping: 45 (min)
Average Pumping Rate: 160 (ml/min)
Water-Quality Meter Type: YSI Pro DSS
Total Volume Removed: 2.8 (gal)
Did well go dry: Yes (No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

	1	2	3	4	5	6	7	8	9	10	11	12	13
Parameter:	0855	0900	0905	0910	0915	0920	0925	0930					
Volume Purged (gal)		1.0			1.7			S					
Rate (mL/min)	160	160	160	160	160	160	160	A					
Depth to Water (ft.)	6.73	6.73	6.73	6.73	6.73	6.73	6.73	M					
pH	6.57	6.60	6.60	6.60	6.60	6.61	6.62	P					
Temp. (C)	14.6	14.4	14.3	14.3	14.3	14.5	14.5	L					
Conductivity (mS/cm)	0.941	0.943	0.947	0.950	0.959	0.968	0.979	E					
Dissolved Oxygen (mg/l)	0.29	0.21	0.19	0.17	0.16	0.15	0.15	|					
ORP (mV)	-20.6	-34.2	-40.9	-46.2	-53.1	-57.6	-60.0	|					
Turbidity (NTU)	5.42	4.12	4.05	4.29	4.08	4.38	4.19	|					
Notes:								Sample	PFAS/1-4 Dioxane first.				

Sampling Information

Analyses	#	Laboratory
BTEXs	6	Buffalo-TA/Eurofins
PAHs	4	Buffalo-TA/Eurofins
PFAS	2	Alpha Labs
1,4-Dioxane	2	Alpha Labs
Sample ID: MW-8S		Sample Time: 0930
MS/MSD:	Yes	(No)
Duplicate:	(Yes)	No
Duplicate ID DUP-081319		Dup. Time:
Chain of Custody Signed By:	RDC	

Problems / Observations

Initial Purge: Pump on at 0840; Slight MGP-like odor. clear, trace sediments

Final Purge: clear; Slight MGP-like odor

CHEMet Readings:

(0 – 1.0) = 1.0

(1-12) = < 1

* Duplicate only on BTEX & PAHs

GROUNDWATER SAMPLING LOG

Site: Madison Ave Former MGP — **NYSEG Elmira, NY** — **Event:** August (Q26) 2019 GW Sampling

Sampling Personnel: Ryan Clare and Sierra Tweedie
Well ID: MW-95
Client / Job Number: NYSEG / 30003462 (EC Sampling – 30030318)
Date: 8/13/2019
Weather: Overcast & Sunny ; 74°
Time In: 1025 **Time Out:** 1155

Well Information

Depth to Water:	5.28	(feet TIC)
Total Depth:	14.99	(feet TIC)
Length of Water Column:	9.71	(feet)
Volume of Water in Well:	1.6	(gal)
Screen Interval:	—	(feet)
Depth to pump Intake:	~13'	(feet TIC)

Well Type:	(Flushmount)	Stick-Up
Well Material:	(Stainless Steel)	PVC
Well Locked:	Yes	(No)
Measuring Point Marked:	Yes	(No)
Well Diameter:	(2")	4"

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:	
Tubing/Bailer Material:	St. Steel	HDPE	Polyethylene	Teflon	Other (HDPE)
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:	
Duration of Pumping:	50 (min)			YSI PRO DSS	
Average Pumping Rate:	155 (ml/min)		Water-Quality Meter Type:	YSI ~~Lamotte 2020~~	
Total Volume Removed:	2.6 (gal)		Did well go dry:	Yes	(No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	1050	1055	1100	1105	1110	1115	1120	1125	1130				
Volume Purged (gal)		0.9			1.55			2.3	S				
Rate (mL/min)	155	155	155	155	155	155	155	155	A				
Depth to Water (ft.)	5.29	5.29	5.29	5.29	5.29	5.29	5.29	5.29	M				
pH	6.11	6.10	6.11	6.10	6.09	6.09	6.09	6.09	P				
Temp. (C)	21.0	21.0	21.1	21.3	21.2	21.3	21.3	21.3	L				
Conductivity (mS/cm)	0.393	0.393	0.394	0.393	0.393	0.392	0.393	0.393	E				
Dissolved Oxygen (mg/l)	1.18	1.14	1.33	1.21	1.16	1.04	1.05	1.09	|				
ORP (mV)	235.9	246.9	250.6	249.2	250.8	254.8	254.1	258.9	|				
Turbidity (NTU)	3.85	2.18	2.23	3.72	3.31	2.15	2.21	2.17	|				
Notes:									|				

Sampling Information

Analyses	#	Laboratory
BTEXs	3	Buffalo-TA/Eurofins
PAHs	2	Buffalo-TA/Eurofins
PFAS	4	Alpha Labs
1,4-Dioxane	4	Alpha Labs
Sample ID: MW-95		Sample Time: 1130
MS/MSD:	Yes	(No)
Duplicate:	(Yes)	No
Duplicate ID DUP-081319		Dup. Time:
Chain of Custody Signed By:	RDC	

Problems / Observations

Initial Purge: Pump on at 1035
Clear ; No odor

Final Purge: Same

CHEMet Readings:

(0 – 1.0) = > 1.0

(1-12) = 1.5

* Duplicate collected on PFAS & 1,4-Dioxane only

GROUNDWATER SAMPLING LOG

Site: Madison Ave Former MGP — **NYSEG Elmira, NY** — **Event:** August (Q26) 2019 GW Sampling

Sampling Personnel:	Ryan Clare and Sierra Tweedie	**Well ID:**	MW-65
Client / Job Number:	NYSEG / 30003462 (EC Sampling – 30030318)	**Date:**	8/13/2019
Weather:	Overcast ; 71°	**Time In:**	1220 **Time Out:** 1500

Well Information

Depth to Water:	5.38	(feet TIC)
Total Depth:	24.79	(feet TIC)
Length of Water Column:	19.41	(feet)
Volume of Water in Well:	3.2	(gal)
Screen Interval:	✓	(feet)
Depth to pump Intake:	≈ 20'	(feet TIC)

Well Type:	(Flushmount)	Stick-Up
Well Material:	(Stainless Steel)	PVC
Well Locked:	Yes	(No)
Measuring Point Marked:	Yes	(No)
Well Diameter:	(2")	4"

Purging Information

Purging Method:	Bailer	(Peristaltic)	Grundfos	Other:
Tubing/Bailer Material:	St. Steel	Polyethylene	Teflon	(Other: HDPE)
Sampling Method:	Bailer	(Peristaltic)	Grundfos	Other:
Duration of Pumping:	50 (min)			452 PRO DSS
Average Pumping Rate:	170 (ml/min)		Water-Quality Meter Type:	YSI/~~Lamotte 2020~~
Total Volume Removed:	2.9 (gal)		Did well go dry:	Yes (No)

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
±0.1	± 10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9	10	11	12	13
	1245	1250	1255	1300	1305	1310	1315	1320	1325				
Volume Purged (gal)		1.0			1.7			2.3	5				
Rate (mL/min)	170	170	170	170	170	170	170	170	A				
Depth to Water (ft.)	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	M				
pH	6.53	6.54	6.54	6.54	6.54	6.54	6.54	6.54	P				
Temp. (C)	18.3	18.4	18.0	18.0	18.1	18.0	18.3	18.5	L				
Conductivity (mS/cm)	0.757	0.757	0.760	0.763	0.773	0.771	0.772	0.772	E				
Dissolved Oxygen (mg/l)	0.44	0.39	0.33	0.36	0.36	0.28	0.29	0.30	|				
ORP (mV)	266.2	280.7	286.5	289.5	294.6	296.3	295.6	295.1	|				
Turbidity (NTU)	1.75	1.71	5.87	2.46	1.98	1.85	1.75	1.69	|				
Notes:													

Sampling Information

Analyses	#	Laboratory
BTEXs	3	Buffalo-TA/Eurofins
PAHs	2	Buffalo-TA/Eurofins
PFAS	6	Alpha Labs
1,4-Dioxane	6	Alpha Labs
Sample ID: MW-65		Sample Time: 1325
MS/MSD:	(Yes)	No
Duplicate:	Yes	(No)
Duplicate ID	✓	Dup. Time: ✓
Chain of Custody Signed By:	RDC	

MS/MSD on PFAS & 1,4-Dioxane

Problems / Observations

Initial Purge: Pump on at 1230
Clear; No odor

Final Purge:
same

CHEMet Readings:

(0 – 1.0) = 1.0

(1-12) = 1.5

Field Blank for EC samples collected after MW-65 sampling. Only (1) 250 ml poly for PFAS. (2) 250 ml Amber for Dioxane.

FB-081319 for PFAS & 1,4-Dioxane at 1400

ATTACHMENT 3

Laboratory Analytical Report

ALPHA ANALYTICAL

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Alpha Analytical

Laboratory Code: 11148

SDG Number: L1936410

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Project Name: MADISON AVE MGP SITE-EC SAMP
Project Number: 30030318

Lab Number: L1936410
Report Date: 08/23/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1936410-01	MW-8S	WATER	MADISON AVE., ELMIRA, NY	08/13/19 09:30	08/13/19
L1936410-02	MW-9S	WATER	MADISON AVE., ELMIRA, NY	08/13/19 11:30	08/13/19
L1936410-03	MW-6S	WATER	MADISON AVE., ELMIRA, NY	08/13/19 13:25	08/13/19
L1936410-04	FB-081319	WATER	MADISON AVE., ELMIRA, NY	08/13/19 14:00	08/13/19
L1936410-05	TB-081319	WATER	MADISON AVE., ELMIRA, NY	08/13/19 14:30	08/13/19
L1936410-06	DUP-081319	WATER	MADISON AVE., ELMIRA, NY	08/13/19 00:00	08/13/19

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Perfluorinated Alkyl Acids by Isotope Dilution

L1936410-01: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

WG1275463-1: The continuing calibration standard had the response for M2-4:2FtS, M2-6:2FtS and M2-8:2FtS outside the acceptance criteria for the method. The associated target analytes were within acceptance criteria; therefore, no further action was taken.

WG1275463-2: The continuing calibration standard had the response for Perfluorohexanesulfonic Acid-Branched (br-PFHxS), outside of acceptance criteria. The response for Perfluorohexanesulfonic Acid (PFHxS) was within acceptance criteria; therefore, no further action was taken.

WG1275463-1: The continuing calibration standard had the response for M2-4:2FtS, M2-6:2FtS and M2-8:2FtS outside the acceptance criteria for the method. The associated target analytes were within acceptance criteria; therefore, no further action was taken.

WG1275463-3: The continuing calibration standard had the response for Perfluoroctanesulfonic Acid-Branched (br-PFOS) outside of acceptance criteria. The response for Perfluorooctanesulfonic Acid (PFOS) was within acceptance criteria; therefore, no further action was taken.

WG1275463-3: The continuing calibration standard had the response for M2-4:2FtSm M2-6:2FtS and M2-8:2FtS outside the acceptance criteria for the method. The associated target analytes were within acceptance criteria; therefore, no further action was taken.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Report Date: 08/23/19

Title: Technical Director/Representative

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when using acetone as a solvent.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Volatile Organics Instruments

Volatile Organics:

Instrument: Agilent 7890 GC/5975C MSD	Columns (length x ID x df):
Trap: Supelco K Trap (VOACARB 3000)	RTX-VMS 20m x 0.18mm x 1um
Concentrator: EST Encon (or equivalent)	RTX-VMS 30m x 0.25mm x 1.4um
Autosampler: EST Centurion (or equivalent)	RTX-502.2 40m x 0.18mm x 1um
Purge time: 11 min	

Volatile Organics: VPH

Instrument: Agilent 6890 (or equivalent)	Column Type: Restek RTX 502.2
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 105 Meters
Concentrator: EST Encon (or equivalent)	df: 3.00 um
Autosampler: EST Centurion (or equivalent)	ID: 0.53mm

Volatile Organics: PIANO

Instrument: Agilent 7890 GC/5975C MSD	Column Type: DB-VRX
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 60 Meters
Concentrator: Tekmar Velocity / EST Encon	df: 1.40 um
Autosampler: Varian Archon / EST Centurion	ID: 0.25 mm
Purge time: 11 min	Desorb: 1 min

Volatile Organics: Dissolved Gas

Instrument: Agilent 7890 (or equivalent) with FID/TCD

	Column Type: Haysep S Column
	Column Length: 2 Meters packed (100/200 mesh)
Autosampler: LEAP Headspace	Purge time: 0.6 min

Volatile Organics in Air Instruments

Volatile Organics in Air:

Instruments: Agilent 6890 GC / 5975 MSD Shimadzu QP2010-SE / QP2020

Concentrator: Entech 7100A or 7200	Column Type: Restek RTX-1
Autosampler: Entech 7016CA or 7016D	Column Length: 60 Meters
	df: 1.00 um
	ID: 0.25 mm or 0.32 mm

Trap 1: Glass Bead: manufacturer-Entech: 20 cm packing material
Trap 2: Tenax: manufacturer-Entech: 20 cm packing material

Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

Instrument: Agilent 5973N MSD	Injection volume: 1 ul;2 uL LVI
Column Type: Restek RXI-5SILMS	df: 0.32 um
Column Length: 30 Meters	ID: 0.25 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

Instrument: Agilent 5973 MSD	Injection volume: 1 ul;2 uL LVI
Column Type: Restek RXI-5SILMS	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Pesticides/PCB/Herbicides:

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Petroleum/EPH:

Instrument: Agilent 6890 w/FID / HP 5890 w/ FID	Injection Volume: 1uL
Column: Restek RTX 5	df: 0.25
Column Length: 30 Meters	
ID: 0.32 mm	

Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 1 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8270):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 2 ul
Column Type: ZB-Semivolatiles	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (8270 SIM):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (1,4-Dioxane):

Instrument: Agilent 5973N / 5975 / 5977 MSD	Injection volume: 3 ul
Column Type: RTX-5	df: 0.25um, 0.18 um
Column Length: 30 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (209 Congener):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: RTX-5, RTX-PCB	df: 0.25um, 0.18 um
Column Length: 60 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (8081):

Instrument: Agilent 6890 / 7890	Injection volume: 1 ul
Column Type: RTX-5 / RTX-CLP II	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8082):

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Semivolatile Organics (SHC Extractables):

Instrument: Agilent 6890	Injection volume: 1 ul
Column Type: RTX-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Sample Delivery Group Summary

Alpha Job Number : L1936410

Received : 13-AUG-2019
Reviewer : Bethany Bedard

Account Name : Arcadis of New York, Inc.
Project Number : 30030318
Project Name : MADISON AVE MGP SITE-EC SAMP

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	3.7	
B	Absent/	Ice	4.1	

Condition Information

1) All samples on COC received?	**YES**
2) Extra samples received?	**NO**
3) Are there any sample container discrepancies?	**NO**
4) Are there any discrepancies between sample labels & COC?	**NO**
5) Are samples in appropriate containers for requested analysis?	**YES**
6) Are samples properly preserved for requested analysis?	**YES**
7) Are samples within holding time for requested analysis?	**YES**
8) All sampling equipment returned?	**NA**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	**NA**

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Aug 23 2019, 03:26 pm

Login Number: L1936410
Account: ARCADIS-NY Arcadis of New York, Inc. Project: 30030318
Received: 13AUG19 Due Date: 23AUG19

Sample #	Client ID	Mat	PR	Collected
L1936410-01	MW-8S		1 S0	13AUG19 09:30
| ASP-B Package Due Date: 08/23/19				
A2-1,4-DIOXANE-SIM,A2-NY-537-ISOTOPE,ASP-B				
L1936410-02	MW-9S		1 S0	13AUG19 11:30
| Package Due Date: 08/23/19				
A2-1,4-DIOXANE-SIM,A2-NY-537-ISOTOPE				
L1936410-03	MW-6S		1 S0	13AUG19 13:25
L1936410-03 MS L1936410-03 MSD Package Due Date: 08/23/19				
A2-1,4-DIOXANE-SIM,A2-MS/MSD,A2-NY-537-ISOTOPE				
L1936410-04	FB-081319		1 S0	13AUG19 14:00
| Package Due Date: 08/23/19				
A2-1,4-DIOXANE-SIM,A2-NY-537-ISOTOPE				
L1936410-05	TB-081319		1 S0	13AUG19 14:30
| Package Due Date: 08/23/19				
A2-NY-537-ISOTOPE				
L1936410-06	DUP-081319		1 S0	13AUG19 00:00
| Package Due Date: 08/23/19				
A2-1,4-DIOXANE-SIM,A2-NY-537-ISOTOPE				

Logged By: Candace Fox

NEW YORK CHAIN OF CUSTODY

ALPHA

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

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Date Rec'd in Lab: 8/14/19

ALPHA Job #: L1936410

Client Information

Client: Arcadis
Address: One Lincoln Center
110 W. Fayette st, ste 300
Phone: 315-671-9437
Fax:
Email: Jason.Golubski@arcadis.com

Project Information

Project Name: Madison Ave MGP Site-EC Sampling
Project Location: Madison Ave. Elmira, NY
Project # 30030318
(Use Project name as Project #)
Project Manager: Jason Golubski
ALPHAQuote #:

Turn-Around Time

Standard [X] Due Date:
Rush (only if pre approved) [ ] # of Days:

These samples have been previously analyzed by Alpha [ ]

Other project specific requirements/comments:
NYSDEC Analytical Services Protocol Catagory B data Deliverables.

Please specify Metals or TAL.

Deliverables

[ ] ASP-A [ ] ASP-B
[ ] EQuIS (1 File) [ ] EQuIS (4 File)
[ ] Other NYSDEC Cat B

Regulatory Requirement

[ ] NY TOGS [ ] NY Part 375
[ ] AWQ Standards [ ] NY CP-51
[ ] NY Restricted Use [ ] Other
[ ] NY Unrestricted Use
[ ] NYC Sewer Discharge

Billing Information

[ ] Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
[ ] NJ [ ] NY
[ ] Other:

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	PFAS	1,4-Dioxane	Sample Filtration	Total Bottle
-01	MW-8S	8/13/19	0930	GW	RDC	2	2		
-02	MW-9S	8/13/19	1130	GW	RDC	2	2		
-03	MW-6S	8/13/19	1325	GW	RDC	2	2		
	MW-6S (MS)	8/13/19	1325	GW	RDC	2	2		
	MW-6S (MSD)	8/13/19	1325	GW	RDC	2	2		
-04	FB-081319	8/13/19	1400	W	RDC	1	2		
-05	TB-081319	8/13/19	1430	W	LAB	1			
-06	DUP-081319	8/13/19	—	GW	RDC	2	2		

Sample Filtration
[ ] Done
[ ] Lab to do
Preservation
[ ] Lab to do
(Please Specify below)

Sample Specific Comments

Container Type: P A
Preservative: A O

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	8/13/19 1450		8/13/19 1450
	8/13/19 1450		8/14/19 0110
	8/14/19 0942		8/14/19 0944
	8/14/19 1030		8/14/19 10:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Organics

GCMS Extractables 1,4-Dioxane By SIM

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: Arcadis of New York, Inc.
Project Name: MADISON AVE MGP SITE-EC SAMP

Lab Number: L1936410
Project Number: 30030318
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 ()	S2 ()	S3 ()	S4 ()	S5 ()	S6 ()	TOT OUT
MW-8S (L1936410-01)	42	--	--	--	--	--	0
MW-9S (L1936410-02)	43	--	--	--	--	--	0
MW-6S (L1936410-03)	38	--	--	--	--	--	0
FB-081319 (L1936410-04)	42	--	--	--	--	--	0
DUP-081319 (L1936410-06)	43	--	--	--	--	--	0
WG1274634-1BLANK	47	--	--	--	--	--	0
WG1274634-2LCS	21	--	--	--	--	--	0
WG1274634-3LCSD	39	--	--	--	--	--	0
MW-6SMS	41	--	--	--	--	--	0
MW-6SMSD	42	--	--	--	--	--	0

QC LIMITS
(15-110) S1 = 1,4-DIOXANE-D8

*** Values outside of QC limits**

FORM II A2-1,4-DIOXANE-SIM

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Arcadis of New York, Inc.	**Lab Number**	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	**Project Number**	: 30030318
Matrix	: WATER		
LCS Sample ID	: WG1274634-2 **Analysis Date** : 08/22/19 19:41	**File ID**	: F1608221904
LCSD Sample ID	: WG1274634-3 **Analysis Date** : 08/22/19 20:06	**File ID**	: F1608221905

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ng/l)	Found (ng/l)	%R	True (ng/l)	Found (ng/l)	%R	RPD	Recovery Limits	RPD Limit
1,4-Dioxane	5000	5640	113	5000	5860	117	3	40-140	30

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Arcadis of New York, Inc.	**Lab Number**	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	**Project Number**	: 30030318
Client Sample ID	: MW-6S	**Matrix**	: WATER
Lab Sample ID	: L1936410-03	**Analysis Date**	: 08/22/19 22:30
Matrix Spike	: WG1274634-4	**MS Analysis Date**	: 08/22/19 22:53
Matrix Spike Dup	: WG1274634-5	**MSD Analysis Date**	: 08/22/19 23:15

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (ng/l)**	**Spike Added (ng/l)**	**Spike Conc. (ng/l)**	**%R**	**Spike Added (ng/l)**	**Spike Conc. (ng/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
1,4-Dioxane	ND	4810	5600	116	4810	5620	117	0	40-140	30

Method Blank Summary
Form 4
Semivolatiles

Client	: Arcadis of New York, Inc.	**Lab Number**	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	**Project Number**	: 30030318
Lab Sample ID	: WG1274634-1	**Lab File ID**	: F1608221903
Instrument ID	: PAH16	**Extraction Date**	: 08/20/19
Matrix	: WATER	**Analysis Date**	: 08/22/19 19:16
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1274634-2LCS	WG1274634-2	08/22/19 19:41
WG1274634-3LCSD	WG1274634-3	08/22/19 20:06
MW-8S	L1936410-01	08/22/19 21:43
MW-9S	L1936410-02	08/22/19 22:07
MW-6S	L1936410-03	08/22/19 22:30
MW-6SMS	WG1274634-4	08/22/19 22:53
MW-6SMSD	WG1274634-5	08/22/19 23:15
FB-081319	L1936410-04	08/22/19 23:38
DUP-081319	L1936410-06	08/23/19 00:00

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Arcadis of New York, Inc.	**Lab Number**	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	**Project Number**	: 30030318
Instrument ID	: PAH16	**Analysis Date**	: 08/21/19 15:32
Tune Standard	: R1222717-9	**Tune File ID**	: F1608211901_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	21.1
68	Less than 2.0% of mass 69	0.2 (.7)1
70	Less than 2.0% of mass 69	0.1 (.5)1
127	10.0 - 80.0% of Base Peak	39.4
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	25.2
365	Greater than 1.0% of mass 198	1.9
441	Present, but less than 24% of mass 442	14.5
442	Base Peak, or >50% of mass 198	60.8
443	15.0 - 24.0% of mass 442	12.2 (20)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD 10	R1222717-1	F1608211902	08/21/19 16:21
STD 50	R1222717-2	F1608211903	08/21/19 16:47
STD 100	R1222717-3	F1608211904	08/21/19 17:15
STD 500	R1222717-4	F1608211905	08/21/19 17:43
STD 1000	R1222717-5	F1608211906	08/21/19 18:13
STD 5000	R1222717-6	F1608211907	08/21/19 18:42
STD 10000	R1222717-7	F1608211908	08/21/19 19:11
ICV QUANT REPORT	R1222717-8	F1608211909	08/21/19 19:37

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Arcadis of New York, Inc.	**Lab Number**	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	**Project Number**	: 30030318
Instrument ID	: PAH16	**Analysis Date**	: 08/22/19 18:02
Tune Standard	: WG1275695-1	**Tune File ID**	: F1608221901_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	19.9
68	Less than 2.0% of mass 69	0 (0)1
70	Less than 2.0% of mass 69	0.1 (.6)1
127	10.0 - 80.0% of Base Peak	37.7
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	27
365	Greater than 1.0% of mass 198	2.1
441	Present, but less than 24% of mass 442	14.7
442	Base Peak, or >50% of mass 198	70.1
443	15.0 - 24.0% of mass 442	14.1 (20.2)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1275695-2CCAL	WG1275695-2	F1608221902	08/22/19 18:49
WG1274634-1BLANK	WG1274634-1	F1608221903	08/22/19 19:16
WG1274634-2LCS	WG1274634-2	F1608221904	08/22/19 19:41
WG1274634-3LCSD	WG1274634-3	F1608221905	08/22/19 20:06
MW-8S	L1936410-01	F1608221909	08/22/19 21:43
MW-9S	L1936410-02	F1608221910	08/22/19 22:07
MW-6S	L1936410-03	F1608221911	08/22/19 22:30
WG1274634-4MS	WG1274634-4	F1608221912	08/22/19 22:53
WG1274634-5MSD	WG1274634-5	F1608221913	08/22/19 23:15
FB-081319	L1936410-04	F1608221914	08/22/19 23:38
DUP-081319	L1936410-06	F1608221915	08/23/19 00:00

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Arcadis of New York, Inc.	**Lab Number**	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	**Project Number**	: 30030318
Instrument ID	: PAH16	**Analysis Date**	: 08/22/19 18:49
Sample No	: WG1275695-2	**Lab File ID**	: F1608221902

	1,4-Dichlorobenzene-d4					
	Area	RT	Area	RT	Area	RT
WG1275695-2	138213	8.28				
Upper Limit	276426	8.78				
Lower Limit	69107	7.78				
Sample ID						
WG1274634-1 BLANK	151487	8.28				
WG1274634-2 LCS	151213	8.28				
WG1274634-3 LCSD	145313	8.28				
MW-8S	146028	8.28				
MW-9S	143320	8.28				
MW-6S	144239	8.28				
MW-6S MS	136788	8.28				
MW-6S MSD	138945	8.28				
FB-081319	139751	8.28				
DUP-081319	140788	8.28				

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Determination of Method Detection Limits

Alpha Analytical Inc.
Mansfield, MA

Approved

Page 1 of 1	
Analyst:	TJ
Date:	10/4/2017
Instrument ID:	PAH16
Column ID:	ZB-Semivolatile
Prep Method:	Same
Prep Chemist:	AL

Method: EPA 8270D-SIM 2017

GCMS **Semivolatile Organic Compounds** **Liquid**

Initial Weight/Volume: 500ml
Final Volume: 10ml

Table (MDL)		Data File	MDL 01	MDL 02	MDL 03	MDL 04	MDL 05	MDL 06	MDL 07	T value used for calculating MDL: 3.143					
		Date Analyzed	10/4/2017	10/4/2017	10/4/2017	10/4/2017	10/4/2017	10/4/2017	10/4/2017						
No.	Analytes	Target conc. (ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	(ng/L)	Mean (ng/L)	Mean Accuracy	Standard Deviation	Calc. MDL (ng/L)	Current RL (ng/L)	Comment
1	1,4-Dioxane	50.0	55.0	47.5	67.6	55.8	49.9	48.4	39.7	52.0	104%	8.72	27.4	150	
	Surrogate														
	1,4-Dioxane-d8	5000	1331	1317	1348	1351	1227	1274	1341	1313	26%				

Comments: _____

Semivolatile Sample Data

Results Summary
Form 1
1,4 Dioxane by 8270D-SIM

Client	: Arcadis of New York, Inc.	**Lab Number**	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	**Project Number**	: 30030318
Lab ID	: L1936410-01	**Date Collected**	: 08/13/19 09:30
Client ID	: MW-8S	**Date Received**	: 08/13/19
Sample Location	: MADISON AVE., ELMIRA, NY	**Date Analyzed**	: 08/22/19 21:43
Sample Matrix	: WATER	**Date Extracted**	: 08/20/19
Analytical Method	: 1,8270D-SIM	**Dilution Factor**	: 1
Lab File ID	: F1608221909	**Analyst**	: MA
Sample Amount	: 260 ml	**Instrument ID**	: PAH16
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	40.2	144	32.6	J

Results Summary
Form 1
1,4 Dioxane by 8270D-SIM

Client	: Arcadis of New York, Inc.	**Lab Number**	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	**Project Number**	: 30030318
Lab ID	: L1936410-02	**Date Collected**	: 08/13/19 11:30
Client ID	: MW-9S	**Date Received**	: 08/13/19
Sample Location	: MADISON AVE., ELMIRA, NY	**Date Analyzed**	: 08/22/19 22:07
Sample Matrix	: WATER	**Date Extracted**	: 08/20/19
Analytical Method	: 1,8270D-SIM	**Dilution Factor**	: 1
Lab File ID	: F1608221910	**Analyst**	: MA
Sample Amount	: 260 ml	**Instrument ID**	: PAH16
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	144	32.6	U

Results Summary
Form 1
1,4 Dioxane by 8270D-SIM

Client	: Arcadis of New York, Inc.	**Lab Number**	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	**Project Number**	: 30030318
Lab ID	: L1936410-03	**Date Collected**	: 08/13/19 13:25
Client ID	: MW-6S	**Date Received**	: 08/13/19
Sample Location	: MADISON AVE., ELMIRA, NY	**Date Analyzed**	: 08/22/19 22:30
Sample Matrix	: WATER	**Date Extracted**	: 08/20/19
Analytical Method	: 1,8270D-SIM	**Dilution Factor**	: 1
Lab File ID	: F1608221911	**Analyst**	: MA
Sample Amount	: 260 ml	**Instrument ID**	: PAH16
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	144	32.6	U

Results Summary
Form 1
1,4 Dioxane by 8270D-SIM

Client	: Arcadis of New York, Inc.	**Lab Number**	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	**Project Number**	: 30030318
Lab ID	: L1936410-04	**Date Collected**	: 08/13/19 14:00
Client ID	: FB-081319	**Date Received**	: 08/13/19
Sample Location	: MADISON AVE., ELMIRA, NY	**Date Analyzed**	: 08/22/19 23:38
Sample Matrix	: WATER	**Date Extracted**	: 08/20/19
Analytical Method	: 1,8270D-SIM	**Dilution Factor**	: 1
Lab File ID	: F1608221914	**Analyst**	: MA
Sample Amount	: 260 ml	**Instrument ID**	: PAH16
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	72.5	144	32.6	J

Results Summary
Form 1
1,4 Dioxane by 8270D-SIM

Client	: Arcadis of New York, Inc.	**Lab Number**	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	**Project Number**	: 30030318
Lab ID	: L1936410-06	**Date Collected**	: 08/13/19 00:00
Client ID	: DUP-081319	**Date Received**	: 08/13/19
Sample Location	: MADISON AVE., ELMIRA, NY	**Date Analyzed**	: 08/23/19 00:00
Sample Matrix	: WATER	**Date Extracted**	: 08/20/19
Analytical Method	: 1,8270D-SIM	**Dilution Factor**	: 1
Lab File ID	: F1608221915	**Analyst**	: MA
Sample Amount	: 250 ml	**Instrument ID**	: PAH16
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	150	33.9	U

Results Summary
Form 1
1,4 Dioxane by 8270D-SIM

Client	: Arcadis of New York, Inc.	**Lab Number**	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	**Project Number**	: 30030318
Lab ID	: WG1274634-1	**Date Collected**	: NA
Client ID	: WG1274634-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 08/22/19 19:16
Sample Matrix	: WATER	**Date Extracted**	: 08/20/19
Analytical Method	: 1,8270D-SIM	**Dilution Factor**	: 1
Lab File ID	: F1608221903	**Analyst**	: MA
Sample Amount	: 250 ml	**Instrument ID**	: PAH16
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	150	33.9	U

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG22\
Data File : F1608221909.d
Acq On : 22 Aug 2019 9:43 pm
Operator : PAH16:MA
Sample : L1936410-01
Misc : WG1275695,WG1274634,ICAL16062
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 23 11:03:08 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG22\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Aug 23 08:35:44 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.584	64	26767	500.000	ng/mL	0.06
3) 1,4-Dichlorobenzene-d4	8.278	152	146028M1	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.584	64	26767	210.711	ng/mL	0.06
Spiked Amount 500.000	Range 15 - 115		Recovery = 42.14%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.651	88	320M4	4.183	ng/mL	

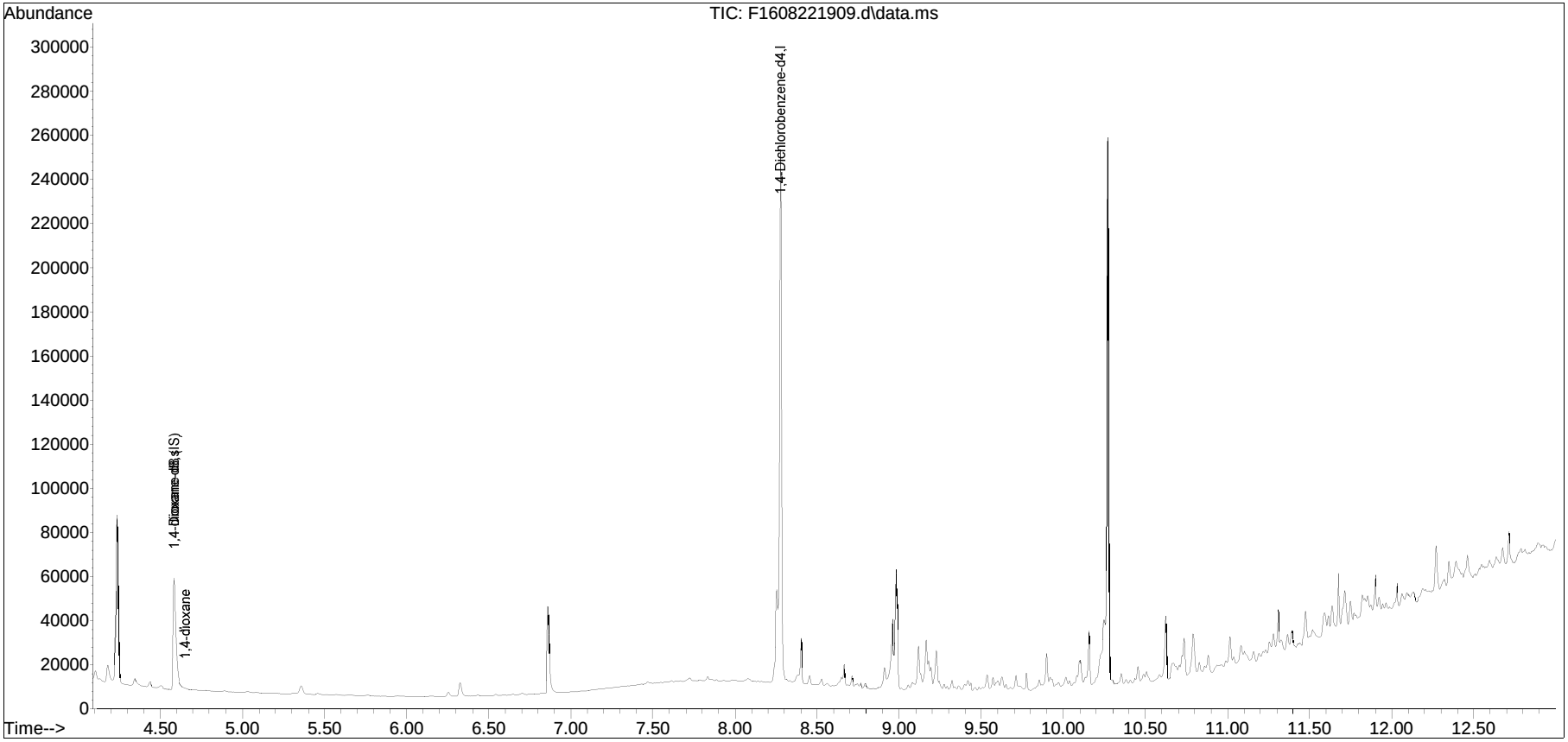
(#) = qualifier out of range (m) = manual integration (+) = signals summed

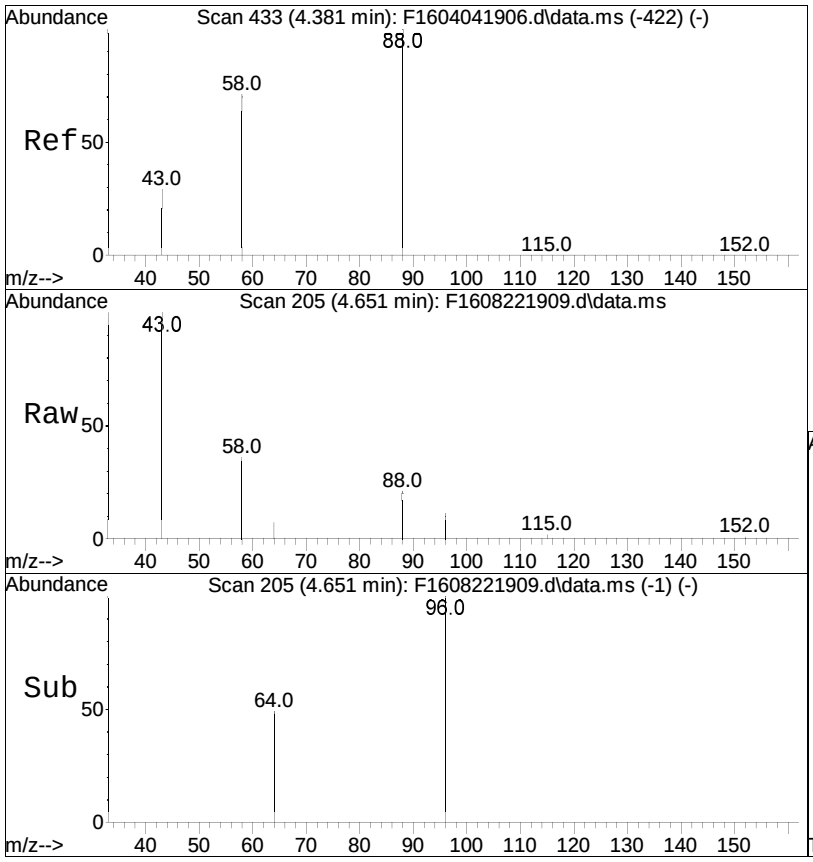
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG22\
Data File : F1608221909.d
Acq On : 22 Aug 2019 9:43 pm
Operator : PAH16:MA
Sample : L1936410-01
Misc : WG1275695,WG1274634,ICAL16062
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 23 11:03:08 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG22\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Aug 23 08:35:44 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

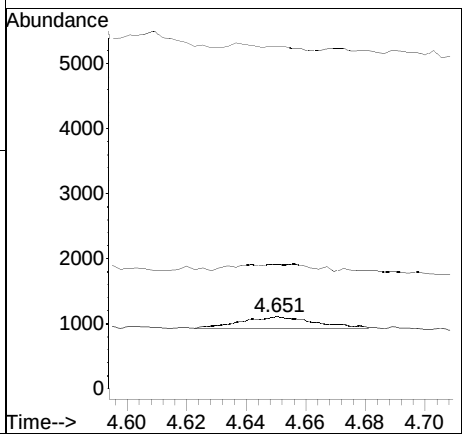




#2
1,4-dioxane
Concen: 4.18 ng/mL M4
RT: 4.651 min Scan# 205
Delta R.T. 0.080 min
Lab File: F1608221909.d
Acq: 22 Aug 2019 9:43 pm

Tgt Ion: 88 Resp: 320

Ion	Ratio	Lower	Upper
88	100		
58	58.4	57.3	85.9
43	30.6	18.3	27.5#

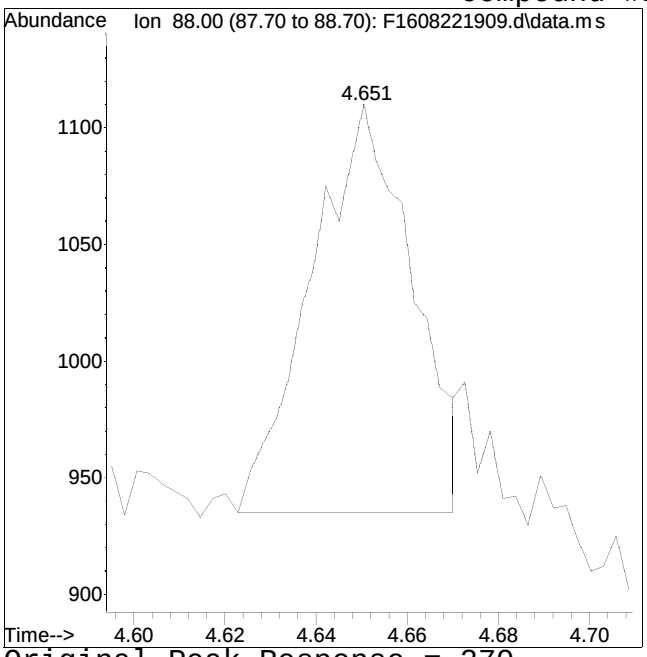


Manual Integration/Negative Proof Report

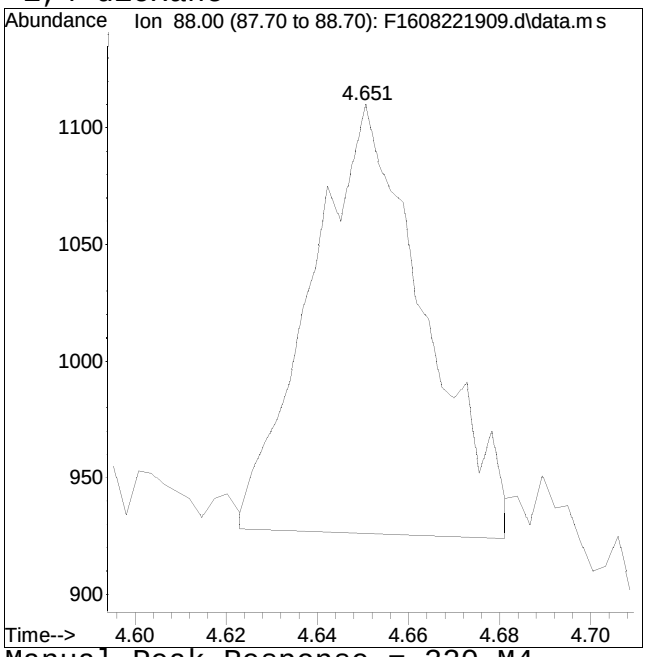
Data Path : O:\Organics\DATA\PAH16\2019Q
Data File : F1608221909.d
Date Inj'd : 8/22/2019 9:43 pm
Sample : L1936410-01

Method : 14DIOX0821PAH16.M
Operator : PAH16:MA
Instrument : PAH16
Quant Date : 8/23/2019 8:49 am

Compound #2: 1,4-dioxane



Original Peak Response = 270



Manual Peak Response = 320 M4

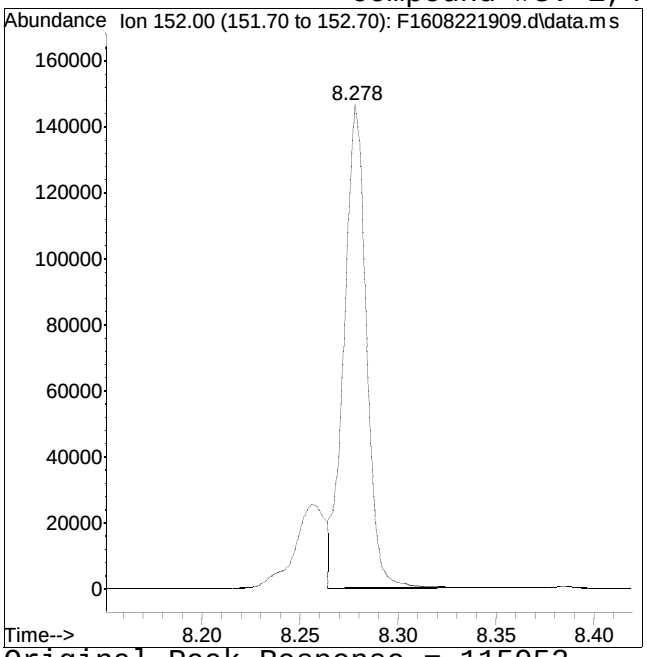
M4 = Poor automated baseline construction.

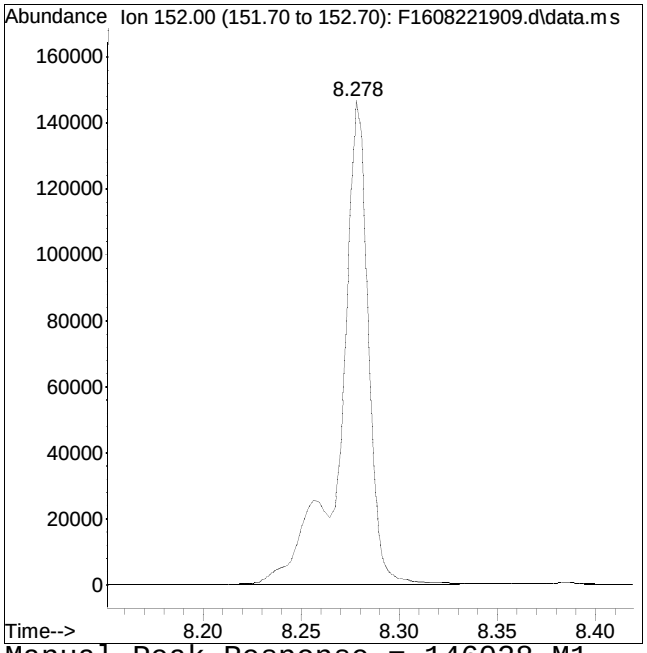
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\PAH16\2019Q
Data File : F1608221909.d
Date Inj'd : 8/22/2019 9:43 pm
Sample : L1936410-01

Method : 14DIOX0821PAH16.M
Operator : PAH16:MA
Instrument : PAH16
Quant Date : 8/23/2019 8:49 am

Compound #3: 1,4-Dichlorobenzene-d4





Original Peak Response = 115952 Manual Peak Response = 146028 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG22\
Data File : F1608221910.d
Acq On : 22 Aug 2019 10:07 pm
Operator : PAH16:MA
Sample : L1936410-02
Misc : WG1275695,WG1274634,ICAL16062
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 23 08:50:03 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG22\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Aug 23 08:35:44 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.584	64	26865	500.000	ng/mL	0.06
3) 1,4-Dichlorobenzene-d4	8.278	152	143320	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.584	64	26865	215.478	ng/mL	0.06
Spiked Amount 500.000	Range 15 - 115		Recovery = 43.10%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.		

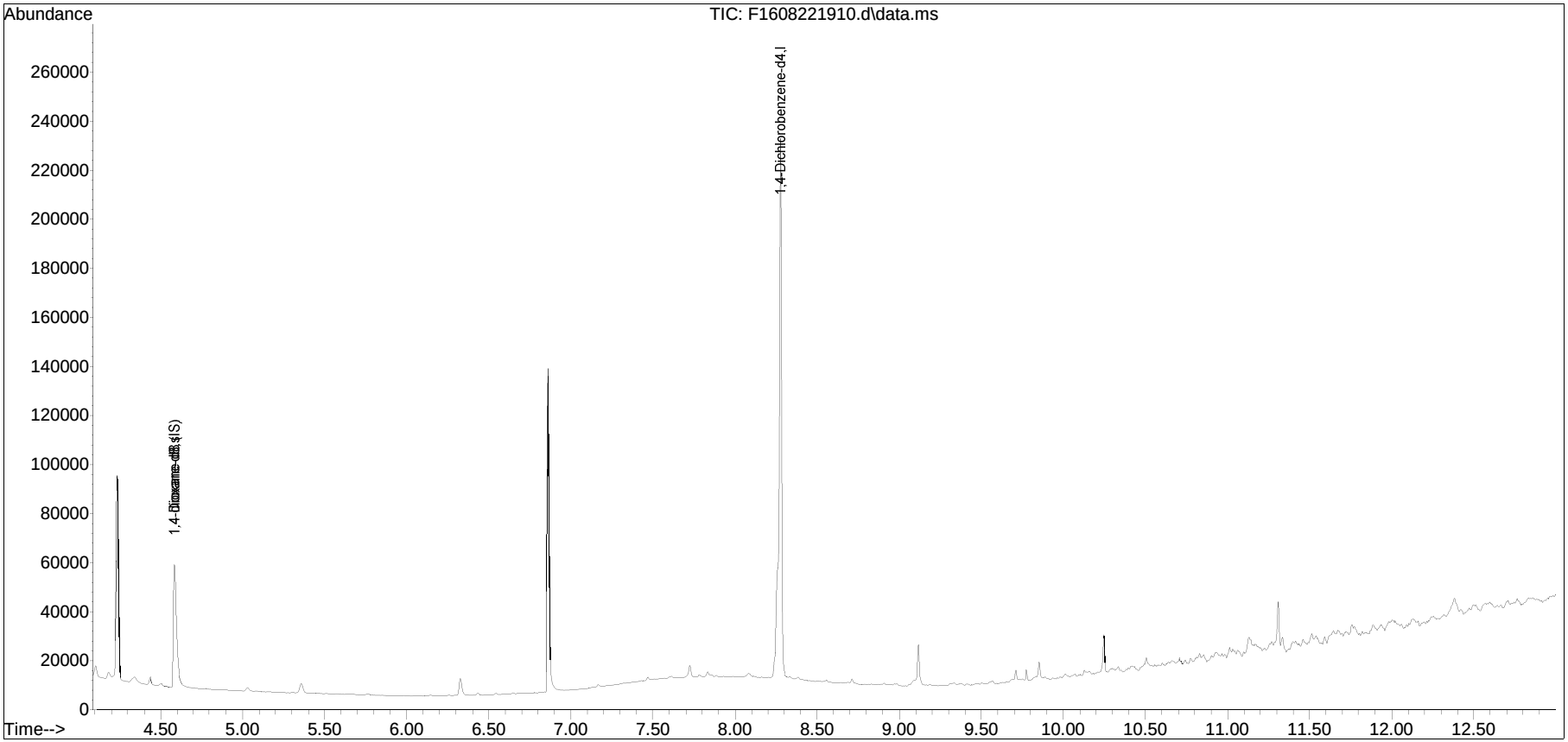
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG22\
Data File : F1608221910.d
Acq On : 22 Aug 2019 10:07 pm
Operator : PAH16:MA
Sample : L1936410-02
Misc : WG1275695,WG1274634,ICAL16062
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 23 08:50:03 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG22\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Aug 23 08:35:44 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH16\2019Q	Method	: 14DIOX0821PAH16.M
Data File	: F1608221910.d	Operator	: PAH16:MA
Date Inj'd	: 8/22/2019 10:07 pm	Instrument	: PAH16
Sample	: L1936410-02	Quant Date	: 8/23/2019 8:50 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG22\
Data File : F1608221911.d
Acq On : 22 Aug 2019 10:30 pm
Operator : PAH16:MA
Sample : L1936410-03
Misc : WG1275695,WG1274634,ICAL16062
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 23 11:03:42 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG22\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Aug 23 08:35:44 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.587	64	23608	500.000	ng/mL	0.06
3) 1,4-Dichlorobenzene-d4	8.278	152	144239M1	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.587	64	23608	188.148	ng/mL	0.06
Spiked Amount 500.000	Range 15 - 115		Recovery = 37.63%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.		

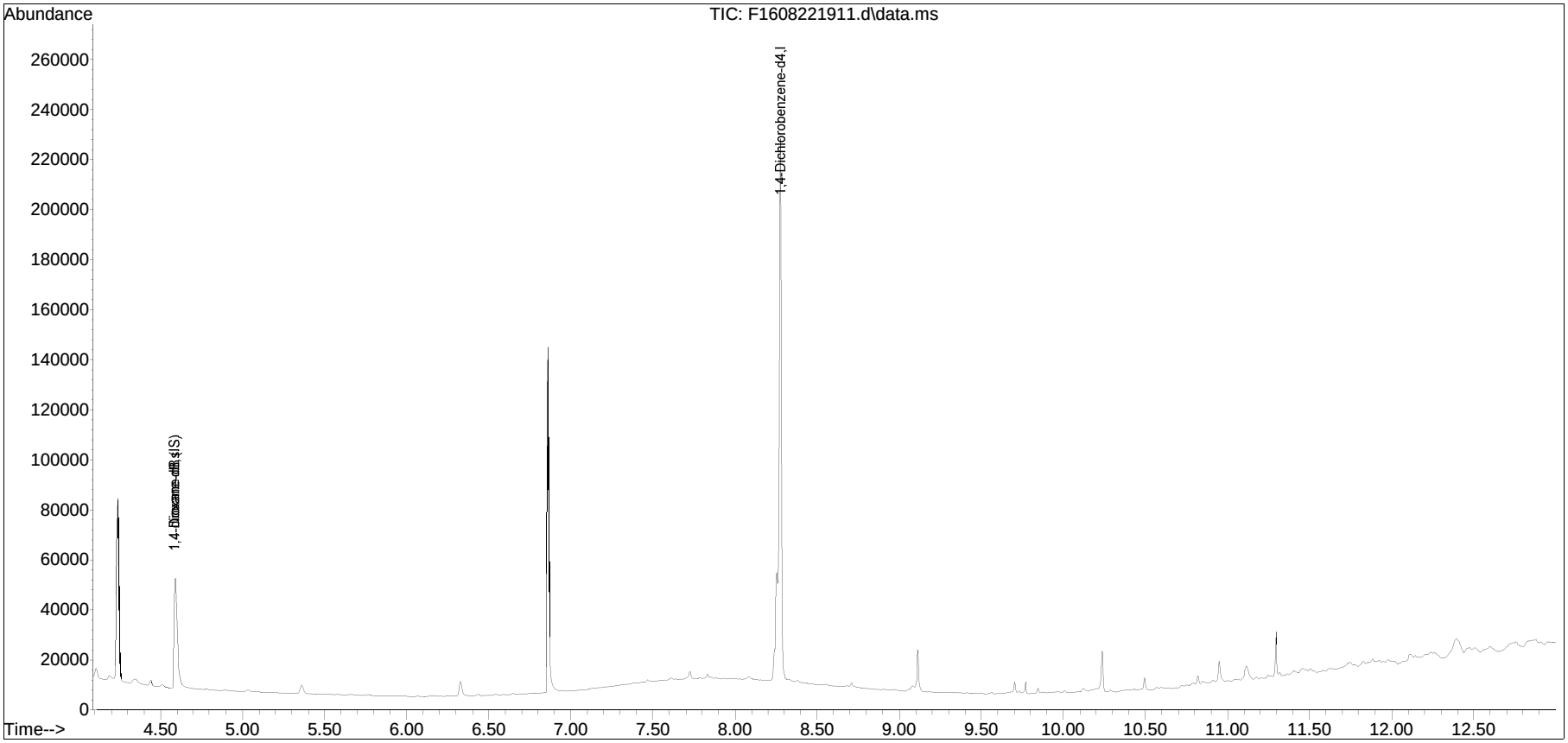
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG22\
Data File : F1608221911.d
Acq On : 22 Aug 2019 10:30 pm
Operator : PAH16:MA
Sample : L1936410-03
Misc : WG1275695,WG1274634,ICAL16062
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 23 11:03:42 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG22\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Aug 23 08:35:44 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

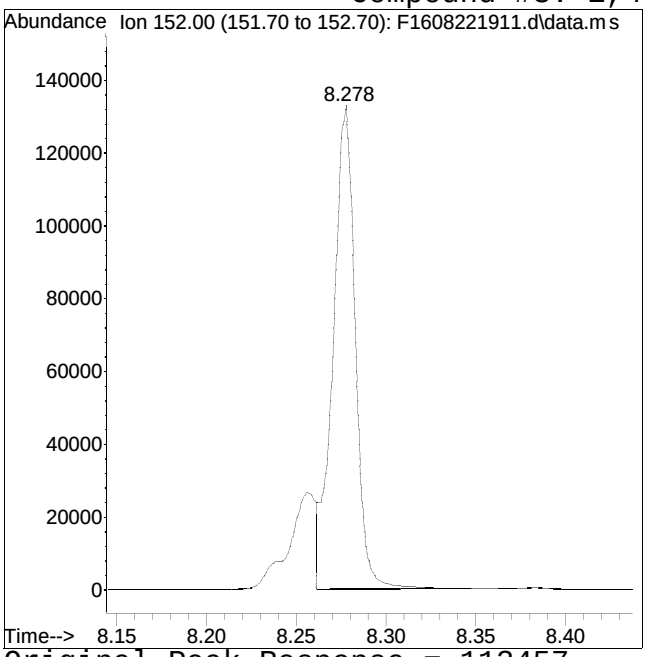


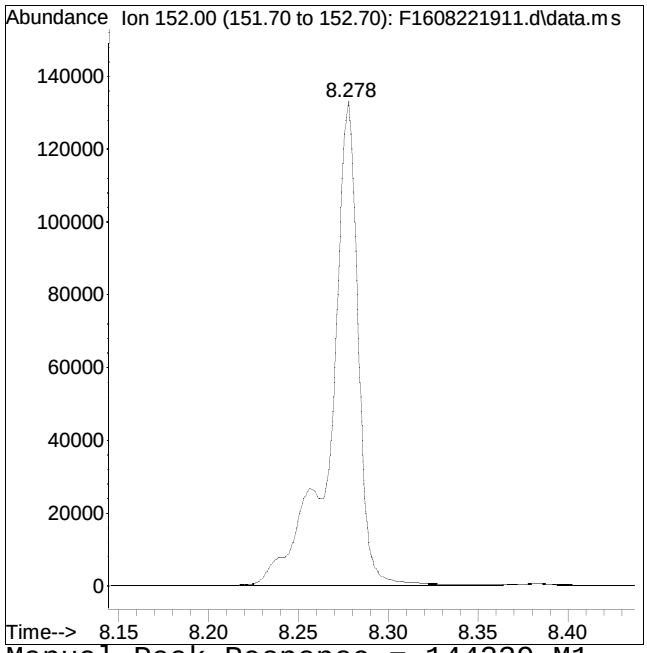
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\PAH16\2019Q
Data File : F1608221911.d
Date Inj'd : 8/22/2019 10:30 pm
Sample : L1936410-03

Method : 14DIOX0821PAH16.M
Operator : PAH16:MA
Instrument : PAH16
Quant Date : 8/23/2019 8:50 am

Compound #3: 1,4-Dichlorobenzene-d4





Original Peak Response = 113457 Manual Peak Response = 144239 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG22\
Data File : F1608221914.d
Acq On : 22 Aug 2019 11:38 pm
Operator : PAH16:MA
Sample : L1936410-04
Misc : WG1275695,WG1274634,ICAL16062
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 23 11:05:33 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG22\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Aug 23 08:35:44 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.595	64	25519	500.000	ng/mL	0.07
3) 1,4-Dichlorobenzene-d4	8.278	152	139751M1	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.595	64	25519	209.909	ng/mL	0.07
Spiked Amount 500.000	Range 15 - 115		Recovery = 41.98%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.662	88	550M4	7.542	ng/mL	

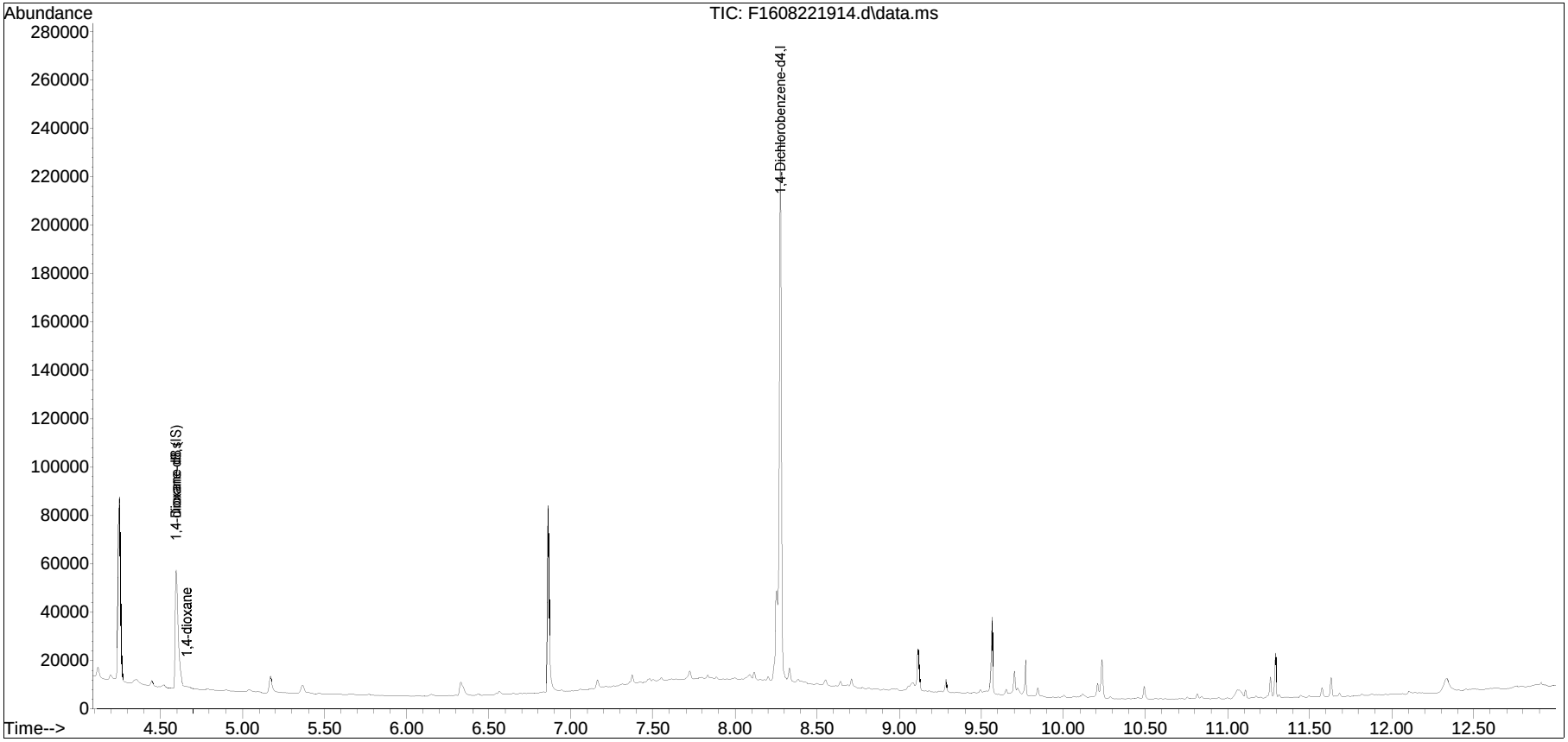
(#) = qualifier out of range (m) = manual integration (+) = signals summed

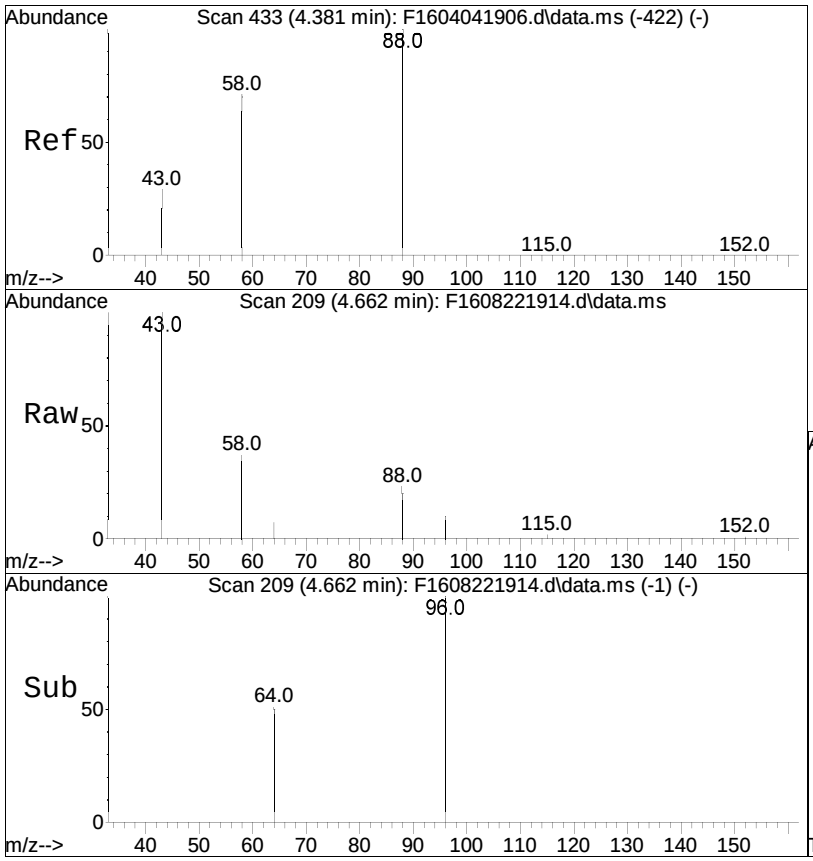
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG22\
Data File : F1608221914.d
Acq On : 22 Aug 2019 11:38 pm
Operator : PAH16:MA
Sample : L1936410-04
Misc : WG1275695,WG1274634,ICAL16062
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 23 11:05:33 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG22\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Aug 23 08:35:44 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

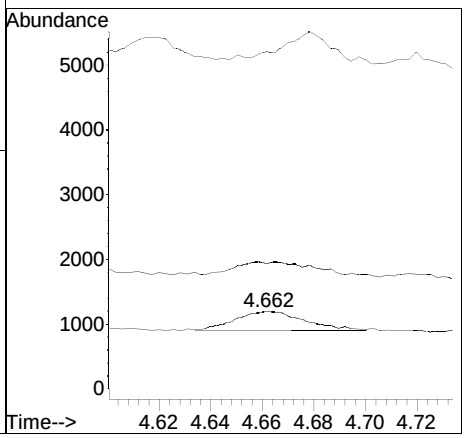




#2
1,4-dioxane
Concen: 7.54 ng/mL M4
RT: 4.662 min Scan# 209
Delta R.T. 0.091 min
Lab File: F1608221914.d
Acq: 22 Aug 2019 11:38 pm

Tgt Ion: 88 Resp: 550

Ion	Ratio	Lower	Upper
88	100		
58	79.3	57.3	85.9
43	102.0	18.3	27.5#

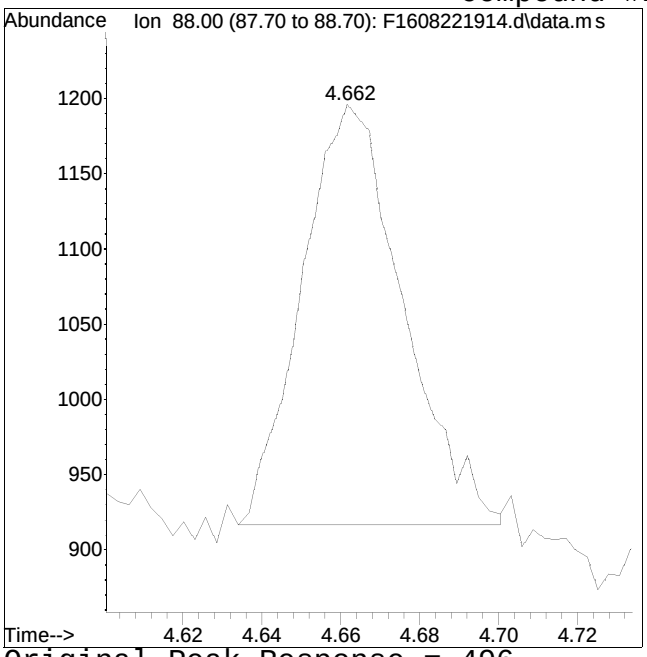


Manual Integration/Negative Proof Report

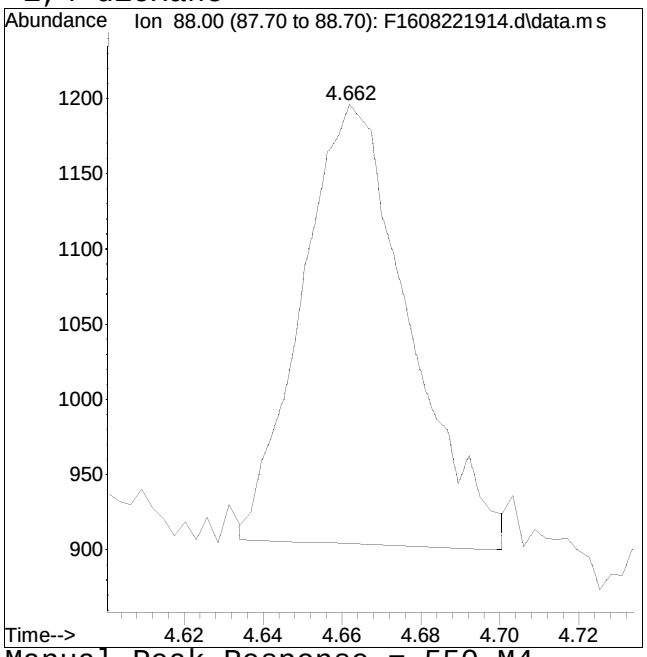
Data Path : O:\Organics\DATA\PAH16\2019Q
Data File : F1608221914.d
Date Inj'd : 8/22/2019 11:38 pm
Sample : L1936410-04

Method : 14DIOX0821PAH16.M
Operator : PAH16:MA
Instrument : PAH16
Quant Date : 8/23/2019 8:50 am

Compound #2: 1,4-dioxane



Original Peak Response = 496



Manual Peak Response = 550 M4

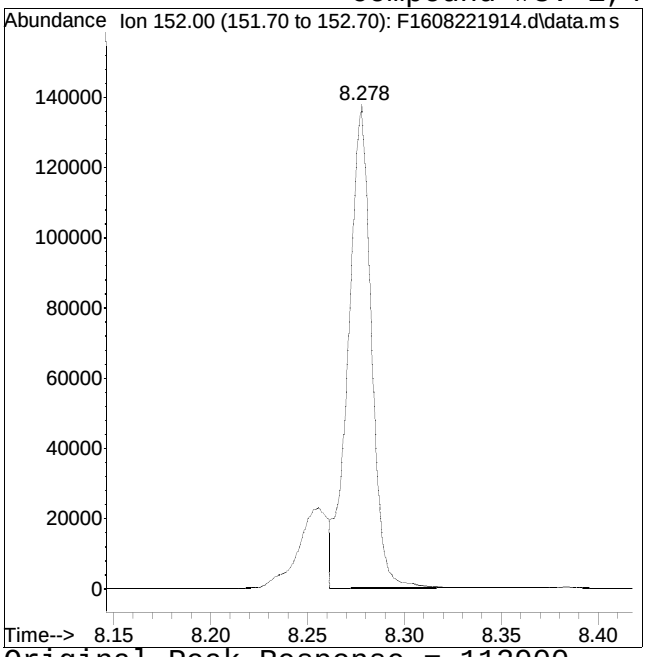
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

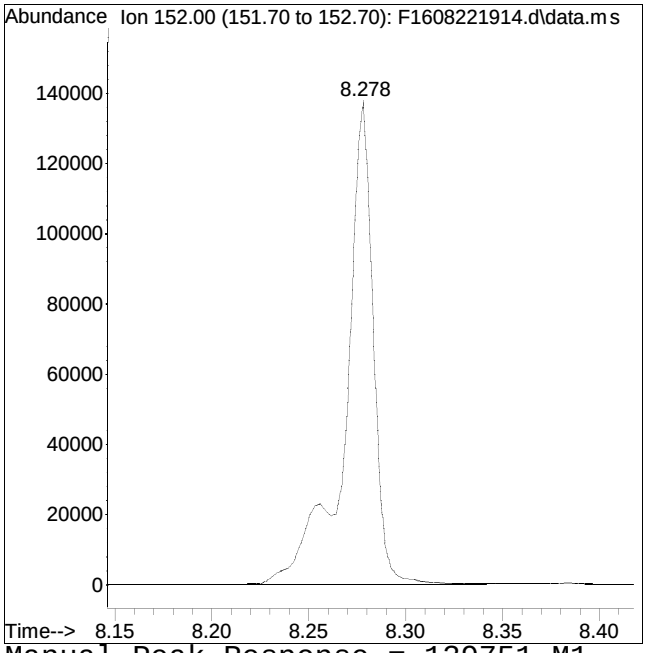
Data Path : O:\Organics\DATA\PAH16\2019Q
Data File : F1608221914.d
Date Inj'd : 8/22/2019 11:38 pm
Sample : L1936410-04

Method : 14DIOX0821PAH16.M
Operator : PAH16:MA
Instrument : PAH16
Quant Date : 8/23/2019 8:50 am

Compound #3: 1,4-Dichlorobenzene-d4



Original Peak Response = 112900



Manual Peak Response = 139751 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG22\
Data File : F1608221915.d
Acq On : 23 Aug 2019 12:00 am
Operator : PAH16:MA
Sample : L1936410-06
Misc : WG1275695,WG1274634,ICAL16062
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 23 08:50:18 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG22\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Aug 23 08:35:44 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.590	64	26539	500.000	ng/mL	0.06
3) 1,4-Dichlorobenzene-d4	8.278	152	140788	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.590	64	26539	216.691	ng/mL	0.06
Spiked Amount 500.000	Range 15 - 115		Recovery = 43.34%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.		

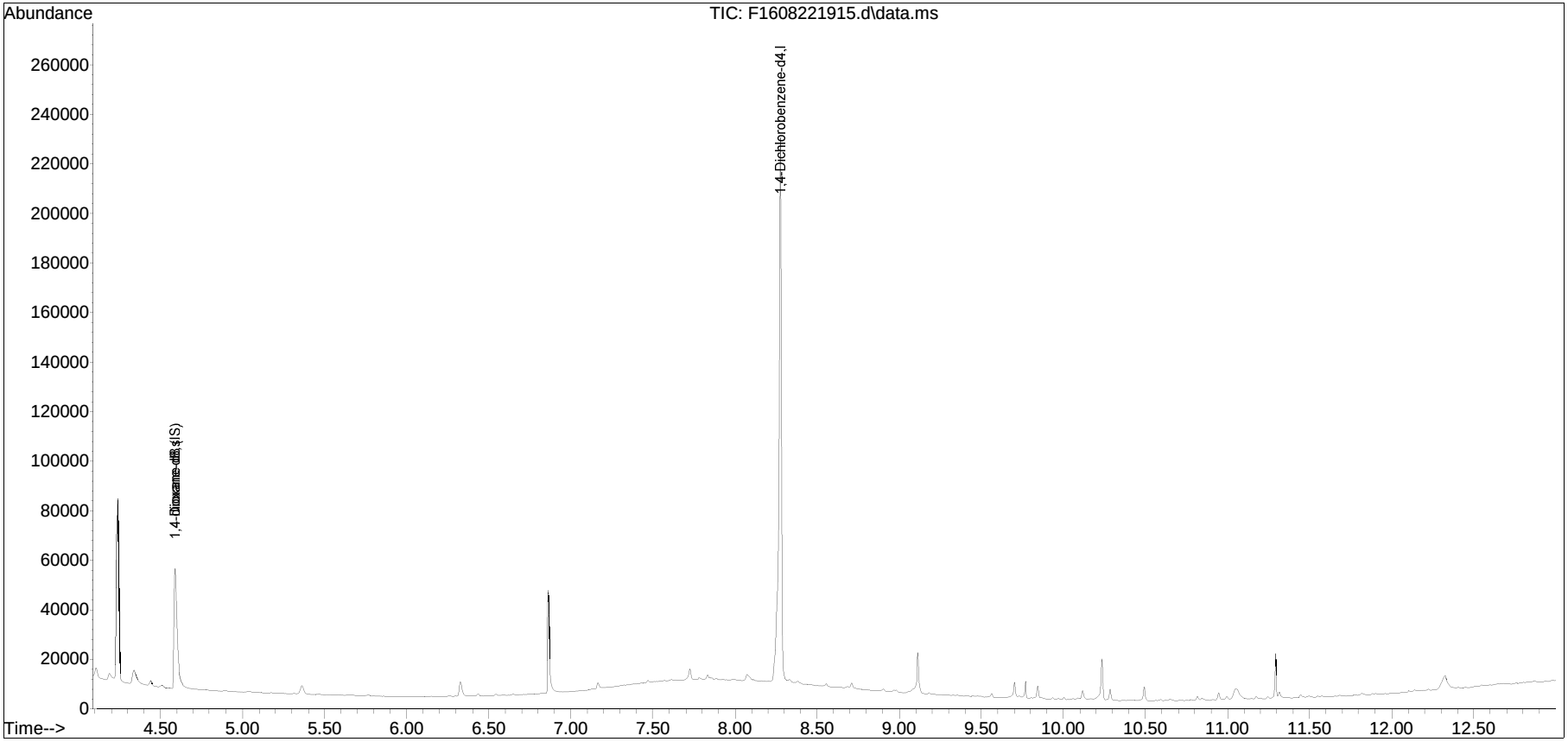
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG22\
Data File : F1608221915.d
Acq On : 23 Aug 2019 12:00 am
Operator : PAH16:MA
Sample : L1936410-06
Misc : WG1275695,WG1274634,ICAL16062
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 23 08:50:18 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG22\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Aug 23 08:35:44 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH16\2019Q	Method	: 14DIOX0821PAH16.M
Data File	: F1608221915.d	Operator	: PAH16:MA
Date Inj'd	: 8/23/2019 12:00 am	Instrument	: PAH16
Sample	: L1936410-06	Quant Date	: 8/23/2019 8:50 am

There are no manual integrations or false positives in this file.

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Arcadis of New York, Inc.**	**Lab Number**	**: L1936410**
Project Name	**: MADISON AVE MGP SITE-EC SAMP**	**Project Number**	**: 30030318**
Instrument ID	**: PAH16**	**Ical Ref**	**: ICAL16062**
Calibration dates	**: 08/21/19 16:21 08/21/19 19:11**		

Calibration Files
10 =F1608211902.d 50 =F1608211903.d 100 =F1608211904.d 500 =F1608211905.d 1000=F1608211906.d
5000=F1608211907.d 1e04=F1608211908.d

	Compound	10	50	100	500	1000	5000	1e04	Avg	%RSD
1)	1,4-Dioxane-d8 (IS)	----------ISTD----------								
2)	1,4-dioxane	1.393	1.401	1.448	1.487	1.519	1.427	1.327	1.429	4.45
3) I	1,4-Dichlorobenzene-d4	----------ISTD----------								
4) s	1,4-dioxane-d8	0.469	0.427	0.423	0.414	0.469	0.423	0.420	0.435	5.41

Response Factor Report PAH16

Method Path : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\
Method File : 14DIOX0821PAH16.M
Title : Semivolatiles by GC/MS
Last Update : Thu Aug 22 08:50:06 2019
Response Via : Initial Calibration

Calibration Files
10 =F1608211902.d 50 =F1608211903.d 100 =F1608211904.d 500 =F1608211905.d 1000=F1608211906.d
5000=F1608211907.d 1e04=F1608211908.d

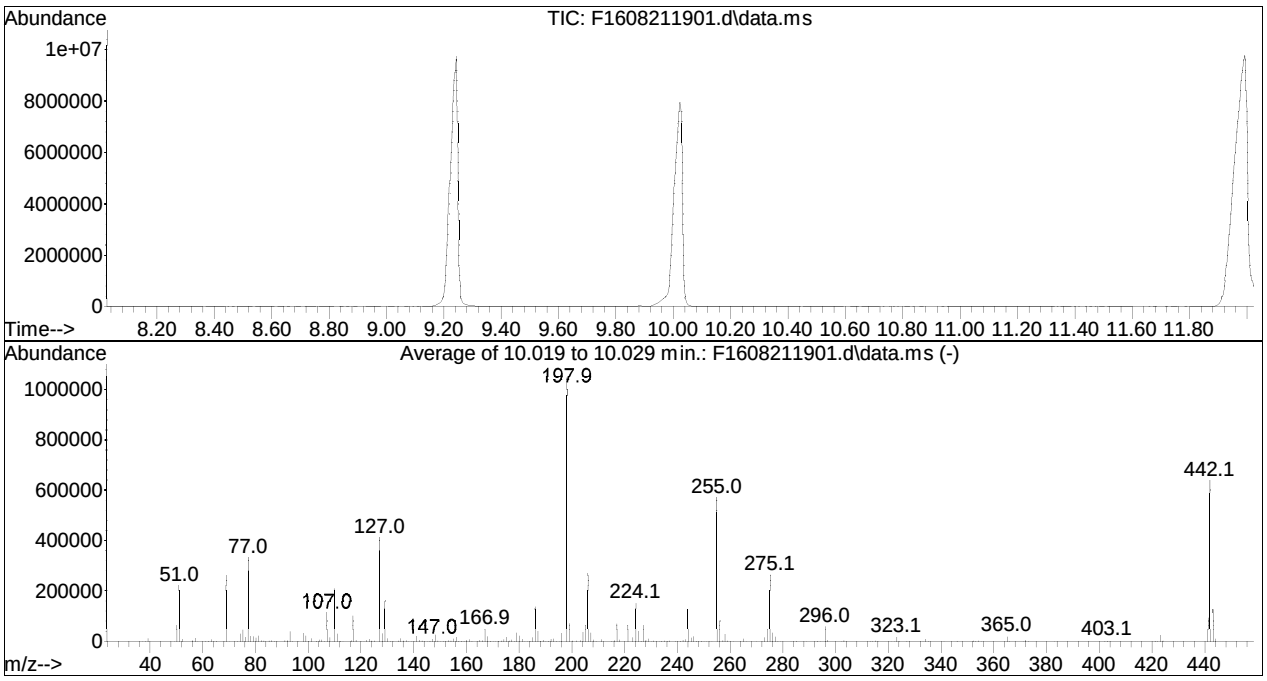
	Compound	10	50	100	500	1000	5000	1e04	Avg	%RSD
1)	1,4-Dioxane-d8 (IS)	----------ISTD----------								
2)	1,4-dioxane	1.393	1.401	1.448	1.487	1.519	1.427	1.327	1.429	4.45
3) I	1,4-Dichlorobenzene-d4	----------ISTD----------								
4) s	1,4-dioxane-d8	0.469	0.427	0.423	0.414	0.469	0.423	0.420	0.435	5.41

(#) = Out of Range

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\
Data File : F1608211901.d
Acq On : 21 Aug 2019 3:32 pm
Operator : PAH16:MA
Sample : T1608211901
Misc : WG1275458,,MSBA76
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\14DIOX0821PAH16.M
Title : Semivolatiles by GC/MS
Last Update : Thu Aug 22 08:50:06 2019



Spectrum Information: Average of 10.019 to 10.029 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	21.1	221174	PASS
68	69	0.00	2	0.7	1698	PASS
70	69	0.00	2	0.5	1388	PASS
127	198	10	80	39.4	412192	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	1047361	PASS
199	198	5	9	6.7	70192	PASS
275	198	10	60	25.2	263450	PASS
365	198	1	100	1.9	19829	PASS
441	442	0.01	24	14.5	92571	PASS
442	198	50	100	60.8	637035	PASS
443	442	15	24	20.0	127312	PASS

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\
Data File : F1608211902.d
Acq On : 21 Aug 2019 4:21 pm
Operator : PAH16:MA
Sample : I1608211901
Misc : WG1275458,,MSBA03
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 22 08:51:19 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Aug 22 08:50:06 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.538	64	62669	500.000	ng/mL	-0.01
3) 1,4-Dichlorobenzene-d4	8.287	152	133529M1	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.538	64	62669	539.511	ng/mL	-0.01
Spiked Amount 500.000	Range 15 - 115		Recovery = 107.90%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.615	88	1746M4	9.749	ng/mL	

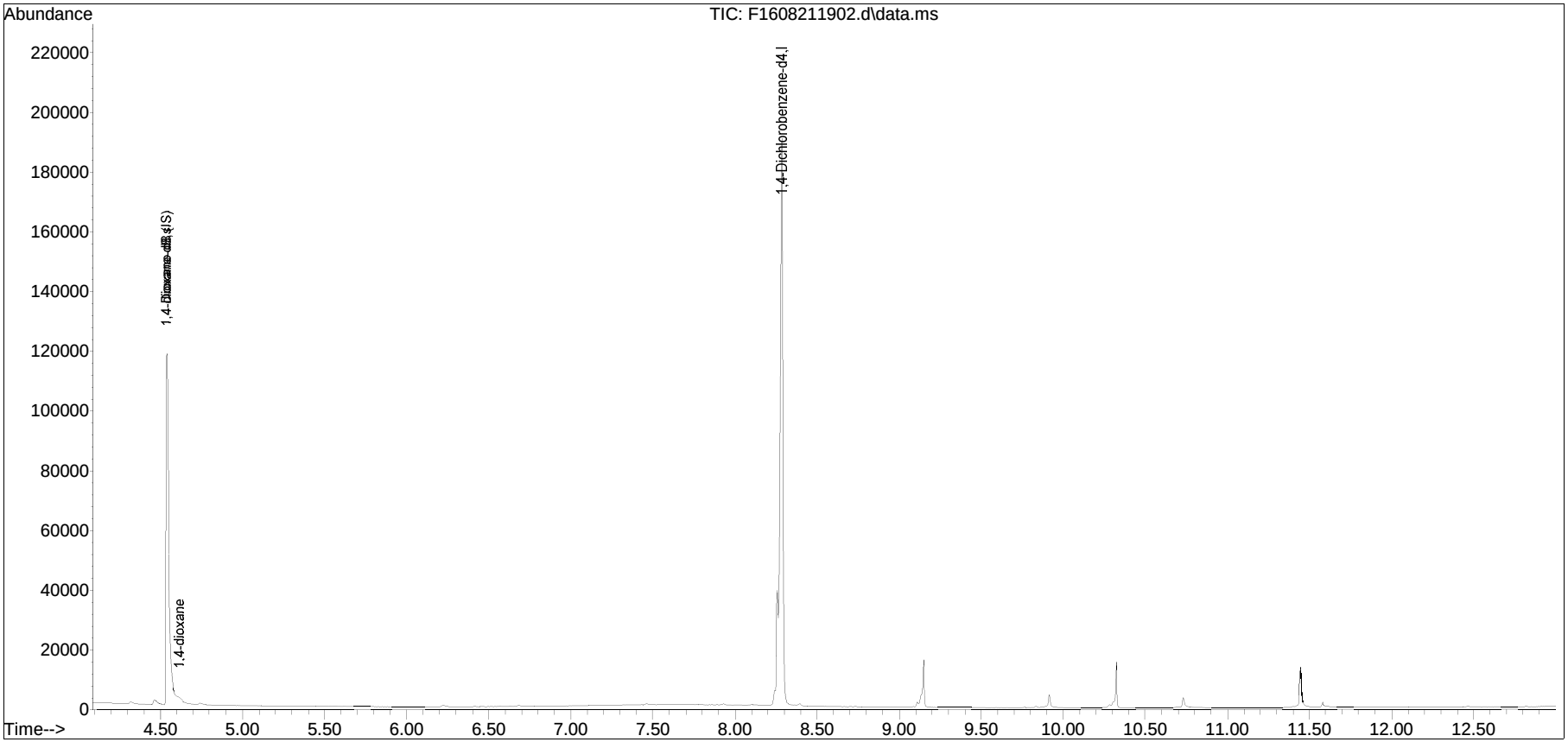
(#) = qualifier out of range (m) = manual integration (+) = signals summed

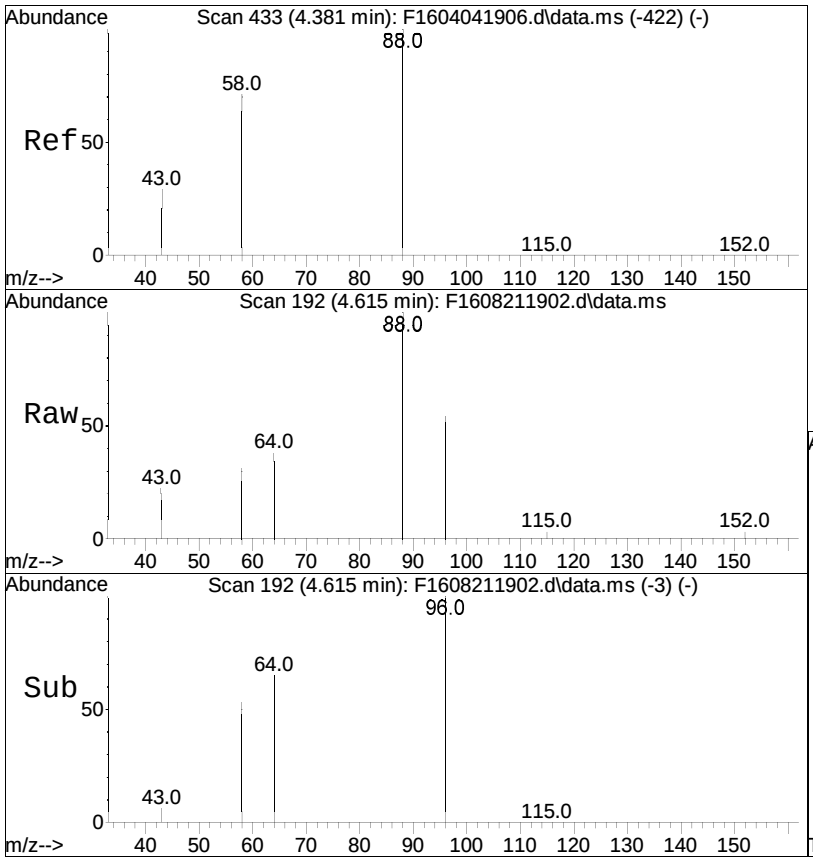
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\
Data File : F1608211902.d
Acq On : 21 Aug 2019 4:21 pm
Operator : PAH16:MA
Sample : I1608211901
Misc : WG1275458,,MSBA03
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 22 08:51:19 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Aug 22 08:50:06 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

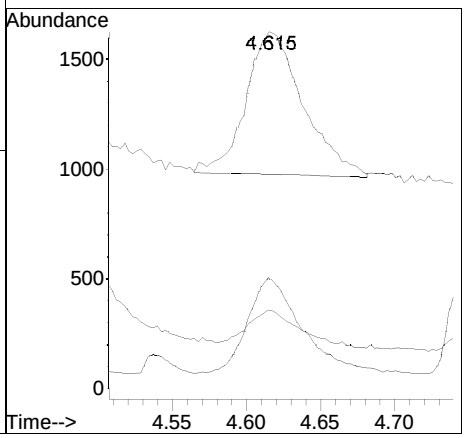




#2
1,4-dioxane
Concen: 9.75 ng/mL M4
RT: 4.615 min Scan# 192
Delta R.T. 0.022 min
Lab File: F1608211902.d
Acq: 21 Aug 2019 4:21 pm

Tgt Ion: 88 Resp: 1746

Ion	Ratio	Lower	Upper
88	100		
58	60.9	57.3	85.9
43	18.6	18.3	27.5

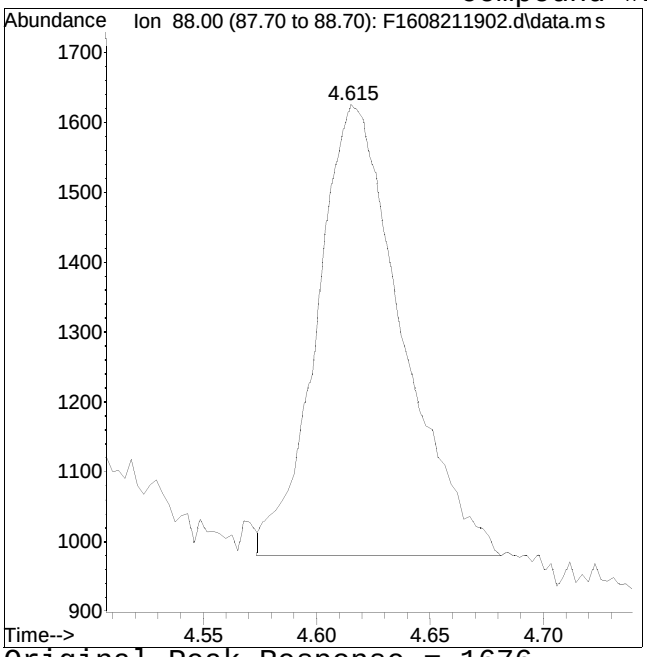


Manual Integration/Negative Proof Report

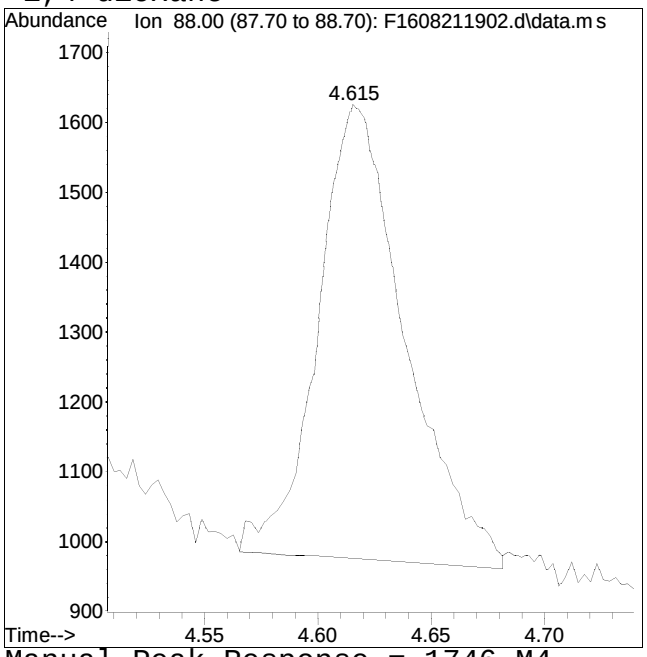
Data Path : O:\Organics\DATA\PAH16\2019Q
Data File : F1608211902.d
Date Inj'd : 8/21/2019 4:21 pm
Sample : I1608211901

Method : 14DIOX0821PAH16.M
Operator : PAH16:MA
Instrument : PAH16
Quant Date : 8/22/2019 8:50 am

Compound #2: 1,4-dioxane



Original Peak Response = 1676



Manual Peak Response = 1746 M4

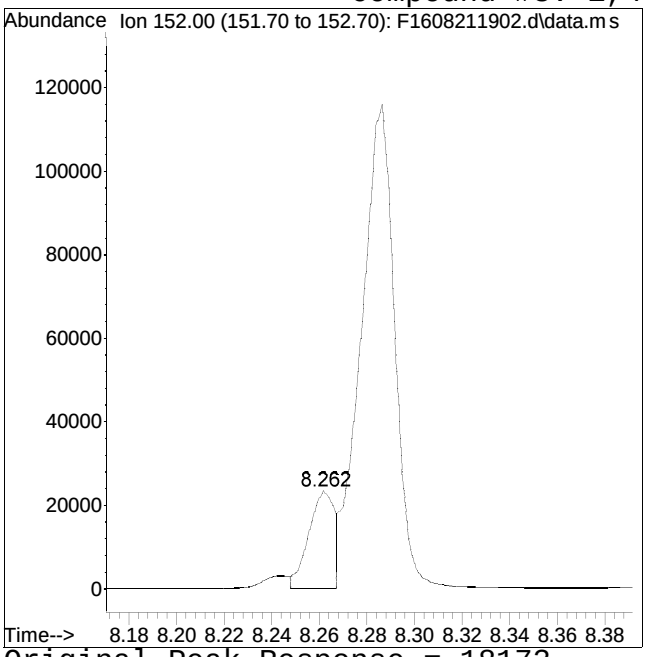
M4 = Poor automated baseline construction.

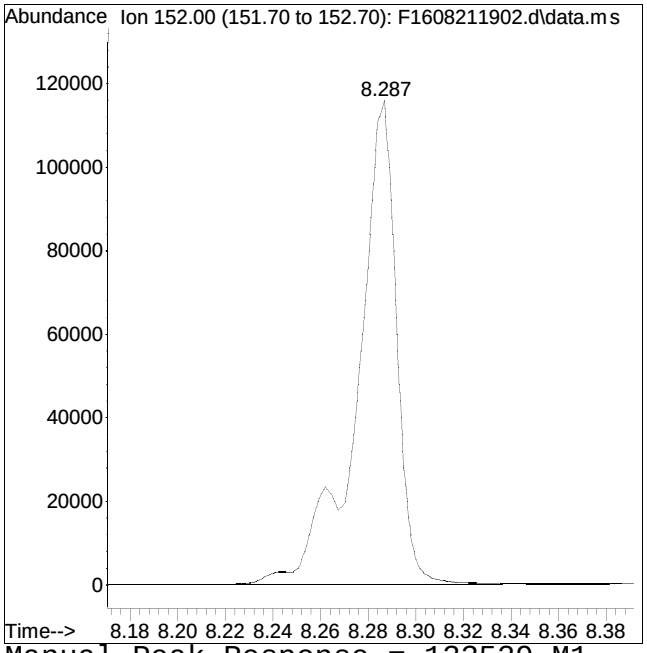
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\PAH16\2019Q
Data File : F1608211902.d
Date Inj'd : 8/21/2019 4:21 pm
Sample : I1608211901

Method : 14DIOX0821PAH16.M
Operator : PAH16:MA
Instrument : PAH16
Quant Date : 8/22/2019 8:50 am

Compound #3: 1,4-Dichlorobenzene-d4





Original Peak Response = 18173 Manual Peak Response = 133529 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\
Data File : F1608211903.d
Acq On : 21 Aug 2019 4:47 pm
Operator : PAH16:MA
Sample : I1608211902
Misc : WG1275458,,MSBA04
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 22 08:50:28 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Aug 22 08:50:06 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.537	64	61611	500.000	ng/mL	-0.01
3) 1,4-Dichlorobenzene-d4	8.283	152	144367	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.537	64	61611	490.584	ng/mL	-0.01
Spiked Amount 500.000	Range 15 - 115		Recovery = 98.12%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.601	88	8629	49.010	ng/mL	97

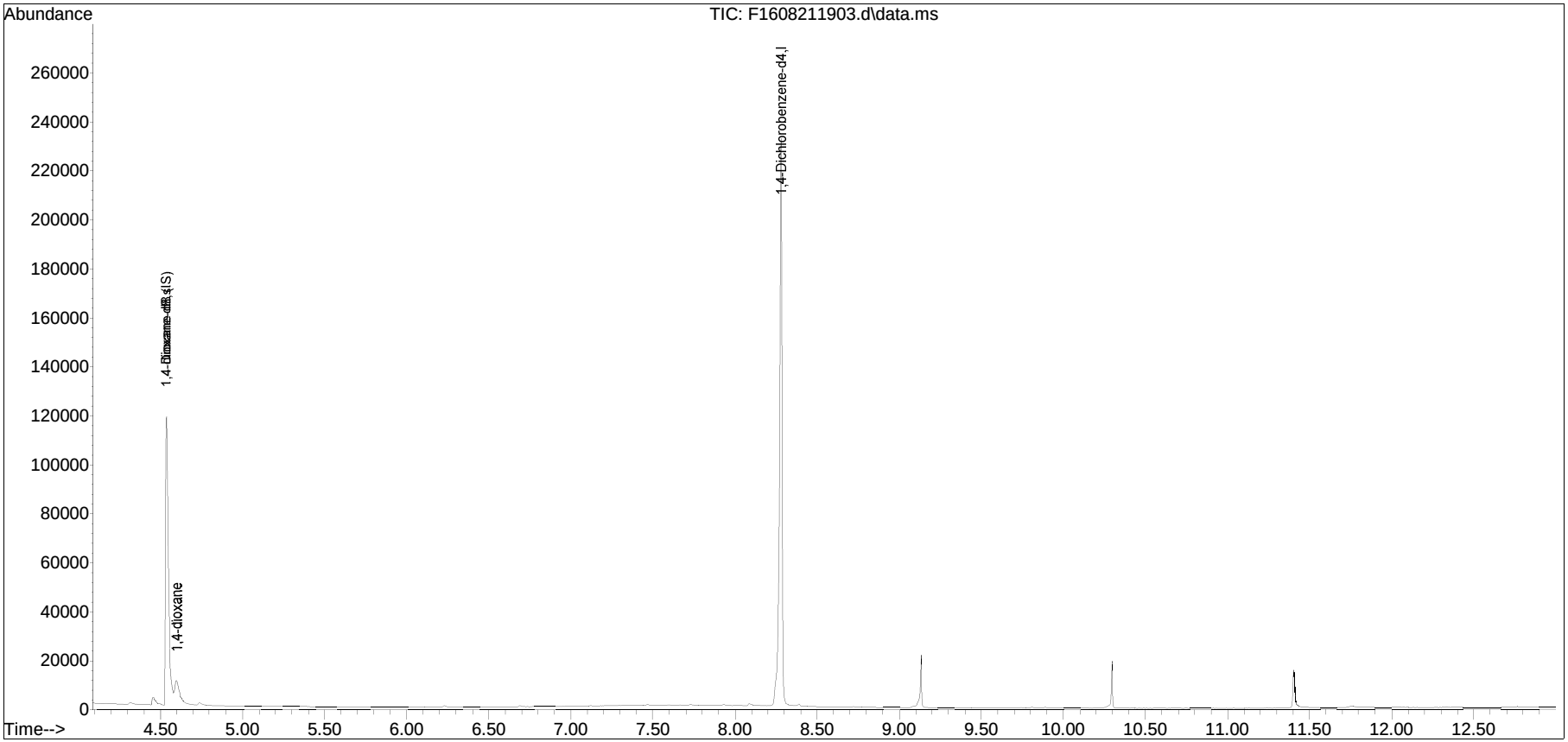
(#) = qualifier out of range (m) = manual integration (+) = signals summed

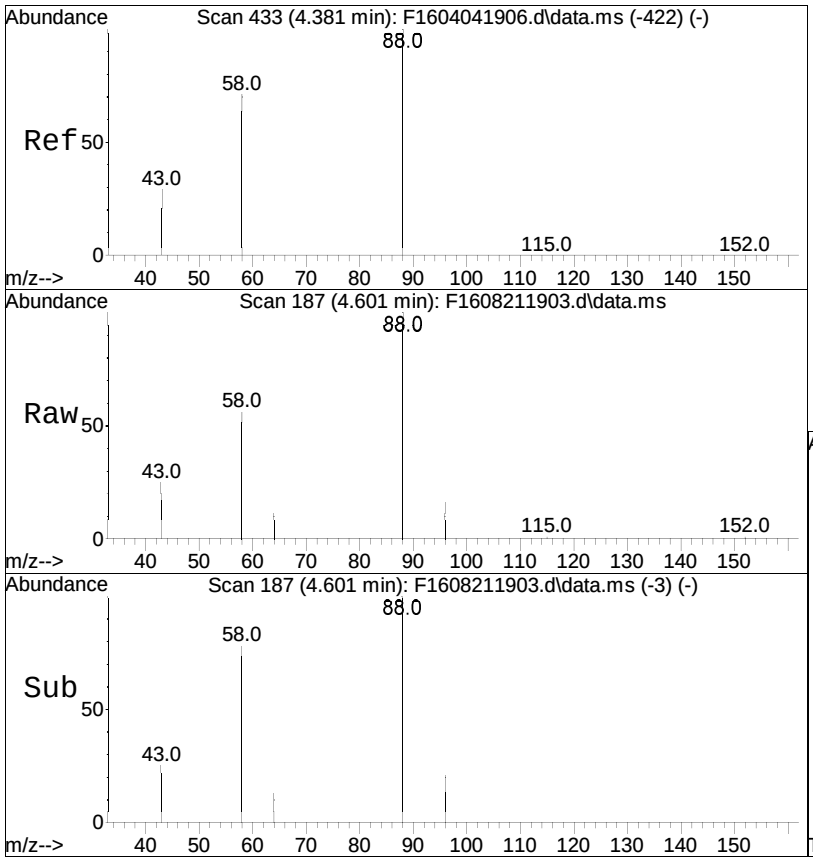
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\
Data File : F1608211903.d
Acq On : 21 Aug 2019 4:47 pm
Operator : PAH16:MA
Sample : I1608211902
Misc : WG1275458,,MSBA04
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 22 08:50:28 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Aug 22 08:50:06 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

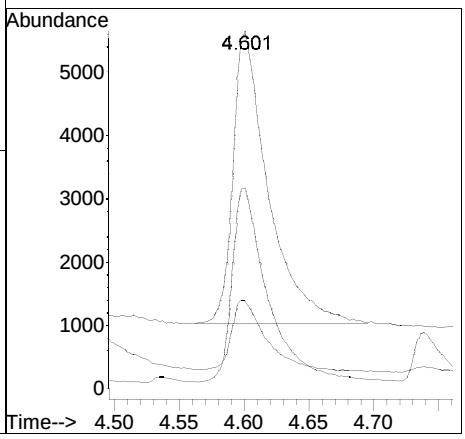




#2
1,4-dioxane
Concen: 49.01 ng/mL
RT: 4.601 min Scan# 187
Delta R.T. 0.008 min
Lab File: F1608211903.d
Acq: 21 Aug 2019 4:47 pm

Tgt Ion: 88 Resp: 8629

Ion	Ratio	Lower	Upper
88	100		
58	68.3	57.3	85.9
43	22.6	18.3	27.5



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH16\2019Q	Method	: 14DIOX0821PAH16.M
Data File	: F1608211903.d	Operator	: PAH16:MA
Date Inj'd	: 8/21/2019 4:47 pm	Instrument	: PAH16
Sample	: I1608211902	Quant Date	: 8/22/2019 8:50 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\
Data File : F1608211904.d
Acq On : 21 Aug 2019 5:15 pm
Operator : PAH16:MA
Sample : I1608211903
Misc : WG1275458,,MSBA05
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 22 08:50:32 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Aug 22 08:50:06 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.570	64	61055	500.000	ng/mL	0.02
3) 1,4-Dichlorobenzene-d4	8.286	152	144496	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.570	64	61055	485.722	ng/mL	0.02
Spiked Amount 500.000	Range 15 - 115		Recovery = 97.14%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.628	88	17678	101.321	ng/mL	96

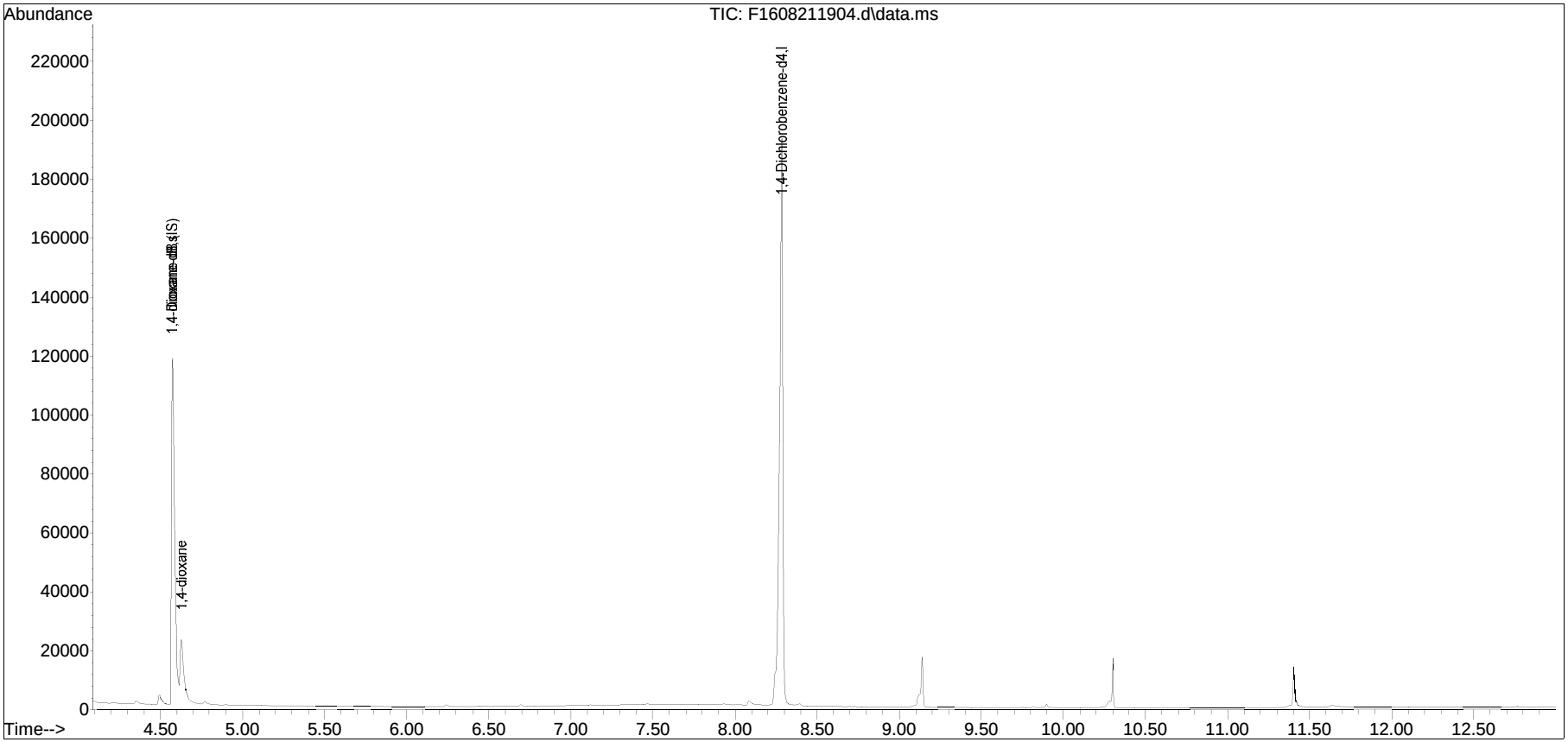
(#) = qualifier out of range (m) = manual integration (+) = signals summed

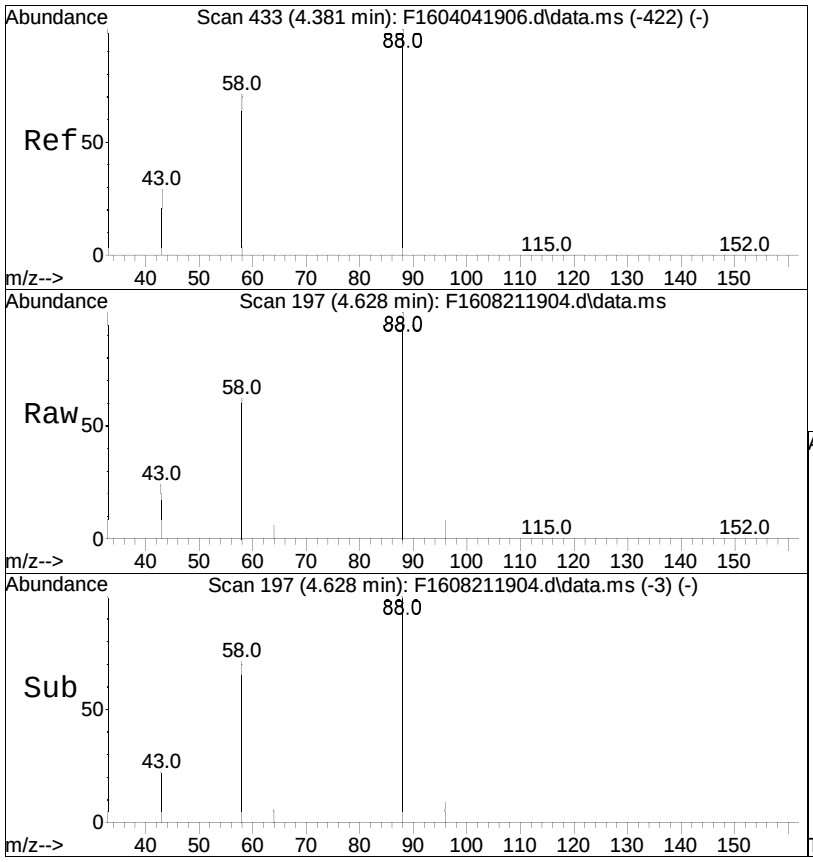
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\
Data File : F1608211904.d
Acq On : 21 Aug 2019 5:15 pm
Operator : PAH16:MA
Sample : I1608211903
Misc : WG1275458,,MSBA05
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 22 08:50:32 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Aug 22 08:50:06 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

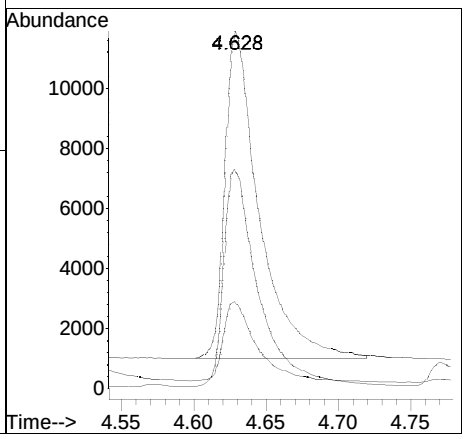




#2
1,4-dioxane
Concen: 101.32 ng/mL
RT: 4.628 min Scan# 197
Delta R.T. 0.036 min
Lab File: F1608211904.d
Acq: 21 Aug 2019 5:15 pm

Tgt Ion: 88 Resp: 17678

Ion	Ratio	Lower	Upper
88	100		
58	67.6	57.3	85.9
43	23.6	18.3	27.5



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH16\2019Q	Method	: 14DIOX0821PAH16.M
Data File	: F1608211904.d	Operator	: PAH16:MA
Date Inj'd	: 8/21/2019 5:15 pm	Instrument	: PAH16
Sample	: I1608211903	Quant Date	: 8/22/2019 8:50 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\
Data File : F1608211905.d
Acq On : 21 Aug 2019 5:43 pm
Operator : PAH16:MA
Sample : I1608211904
Misc : WG1275458,,MSBA06
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 22 08:50:36 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Aug 22 08:50:06 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.551	64	61485	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	8.278	152	148530	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.551	64	61485	475.858	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 95.17%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.598	88	91414	520.270	ng/mL	95

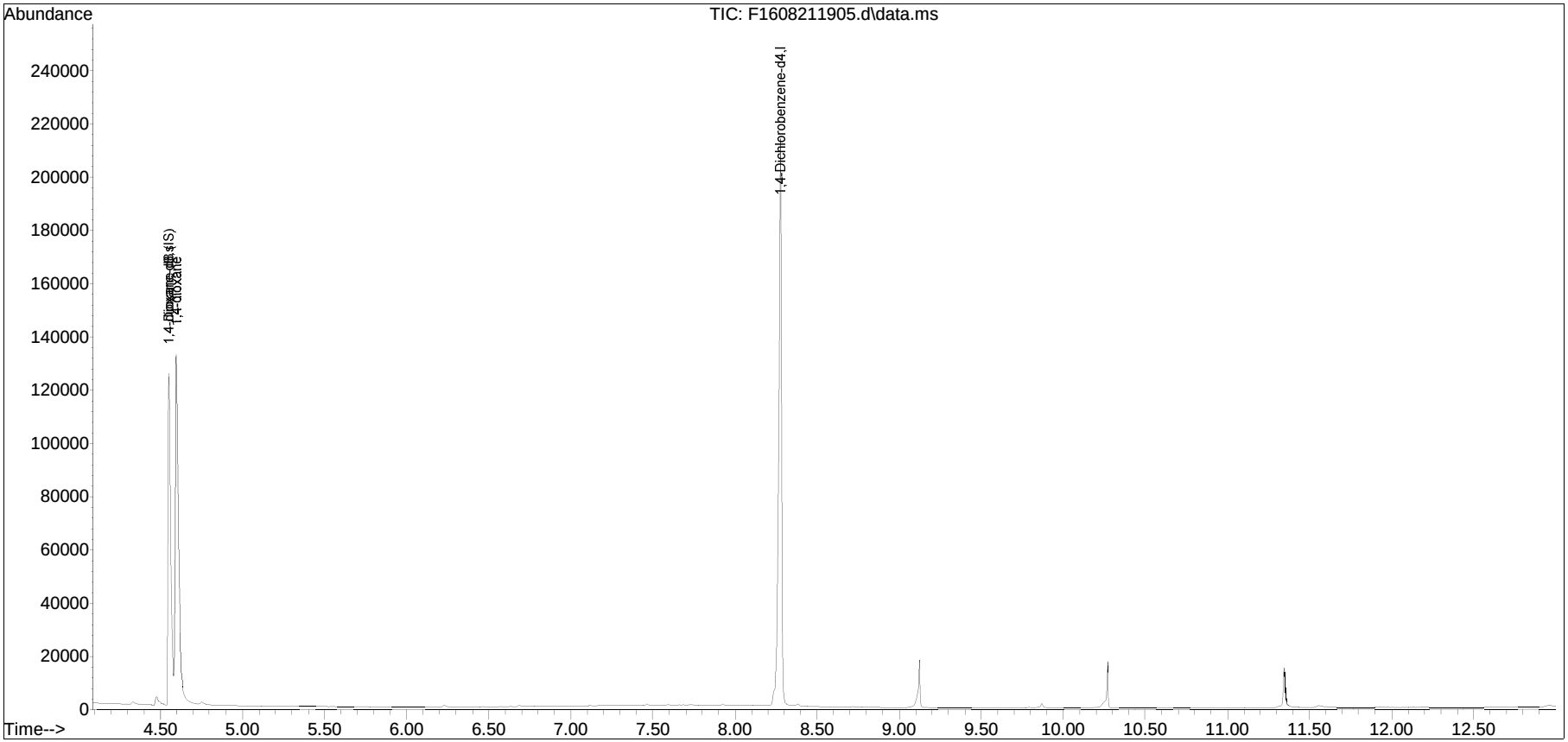
(#) = qualifier out of range (m) = manual integration (+) = signals summed

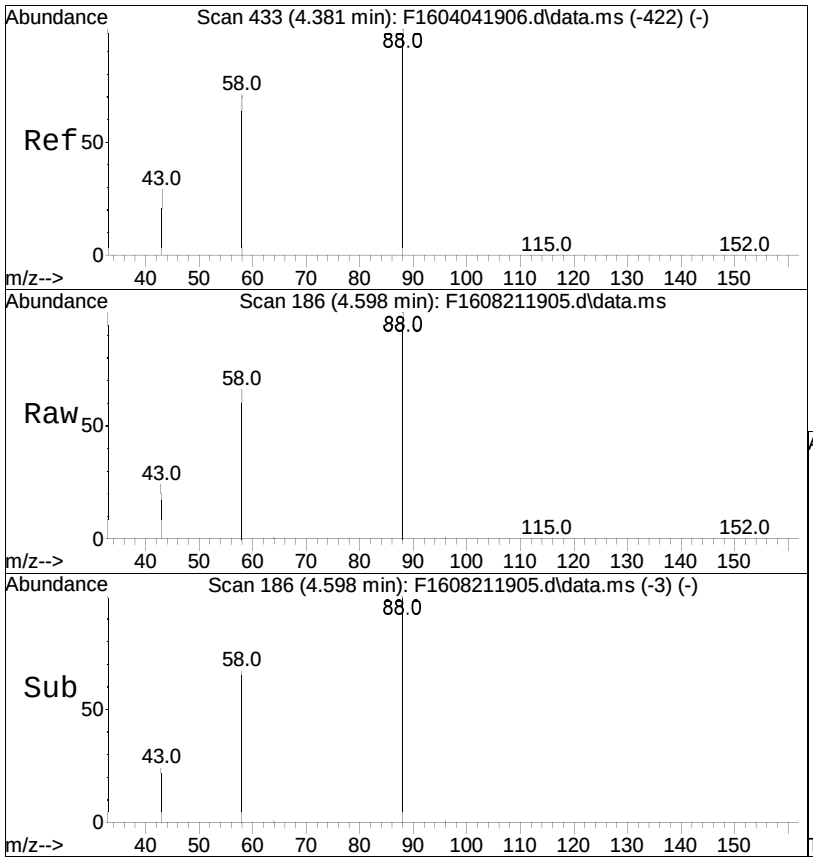
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\
Data File : F1608211905.d
Acq On : 21 Aug 2019 5:43 pm
Operator : PAH16:MA
Sample : I1608211904
Misc : WG1275458,,MSBA06
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 22 08:50:36 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Aug 22 08:50:06 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

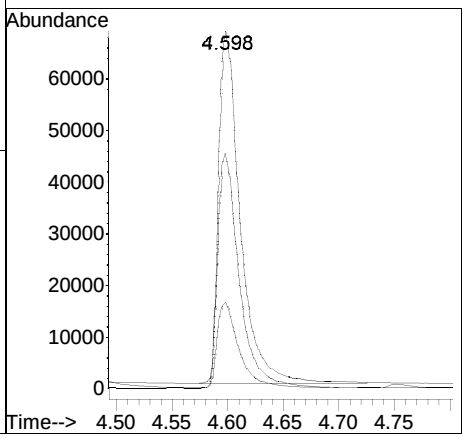




#2
1,4-dioxane
Concen: 520.27 ng/mL
RT: 4.598 min Scan# 186
Delta R.T. 0.006 min
Lab File: F1608211905.d
Acq: 21 Aug 2019 5:43 pm

Tgt Ion: 88 Resp: 91414

Ion	Ratio	Lower	Upper
88	100		
58	66.8	57.3	85.9
43	24.0	18.3	27.5



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\PAH16\2019Q	Method	: 14DIOX0821PAH16.M
Data File	: F1608211905.d	Operator	: PAH16:MA
Date Inj'd	: 8/21/2019 5:43 pm	Instrument	: PAH16
Sample	: I1608211904	Quant Date	: 8/22/2019 8:50 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\
Data File : F1608211906.d
Acq On : 21 Aug 2019 6:13 pm
Operator : PAH16:MA
Sample : I1608211905
Misc : WG1275458,,MSBA94
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 22 08:50:41 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Aug 22 08:50:06 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.548	64	60429	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	8.284	152	128962M1	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.548	64	60429	538.650	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 107.73%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.593	88	183621M4	1063.316	ng/mL	

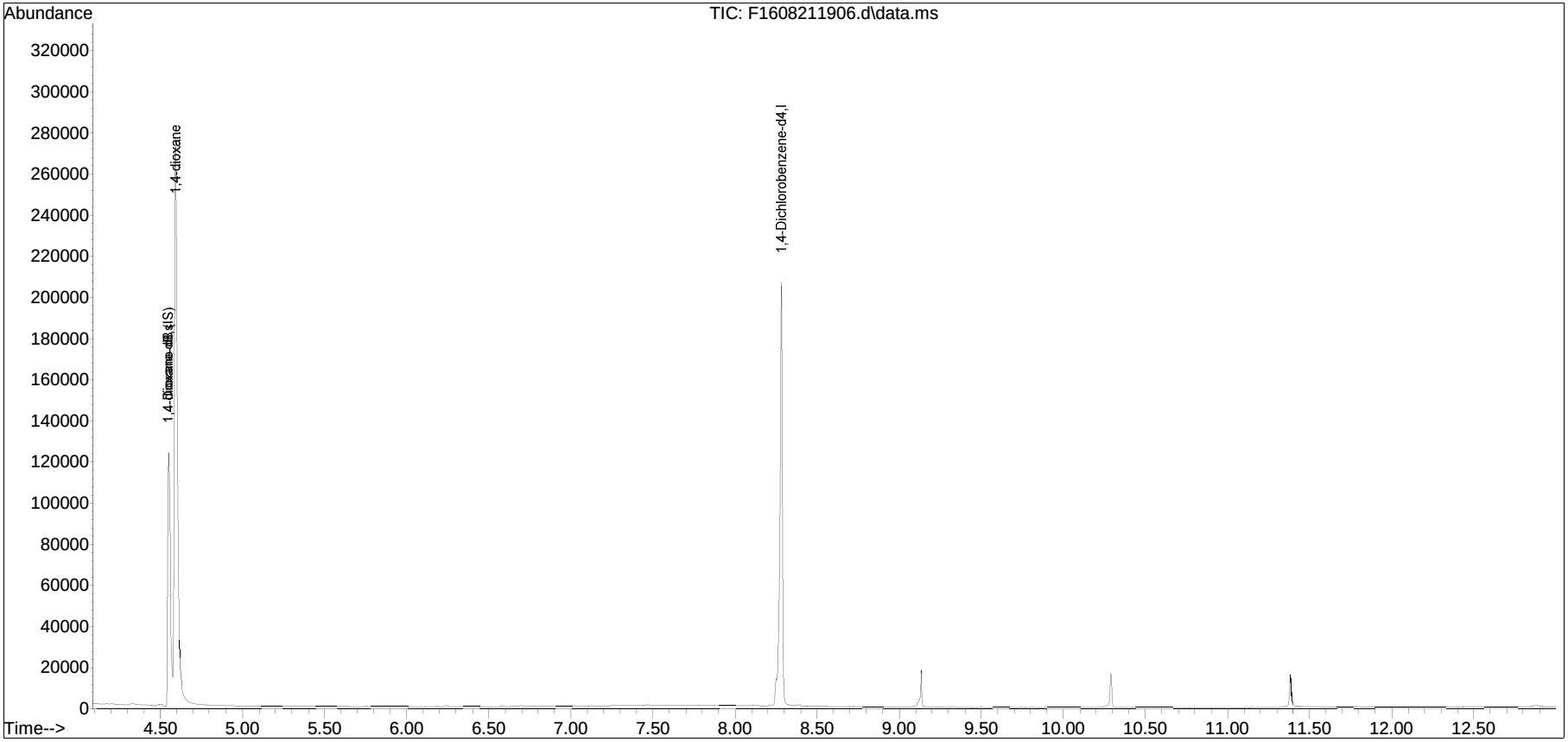
(#) = qualifier out of range (m) = manual integration (+) = signals summed

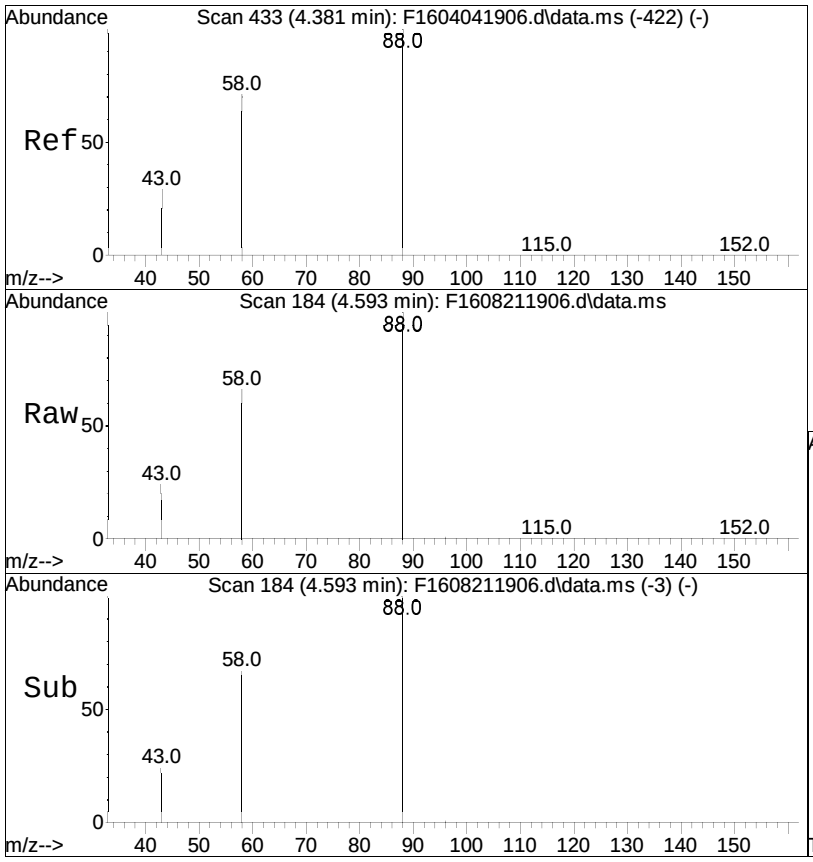
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\
Data File : F1608211906.d
Acq On : 21 Aug 2019 6:13 pm
Operator : PAH16:MA
Sample : I1608211905
Misc : WG1275458,,MSBA94
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 22 08:50:41 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Aug 22 08:50:06 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

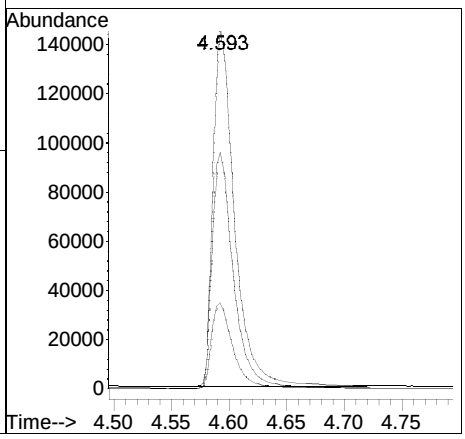




#2
1,4-dioxane
Concen: 1063.32 ng/mL M4
RT: 4.593 min Scan# 184
Delta R.T. 0.000 min
Lab File: F1608211906.d
Acq: 21 Aug 2019 6:13 pm

Tgt Ion: 88 Resp: 183621

Ion	Ratio	Lower	Upper
88	100		
58	66.2	57.3	85.9
43	24.2	18.3	27.5

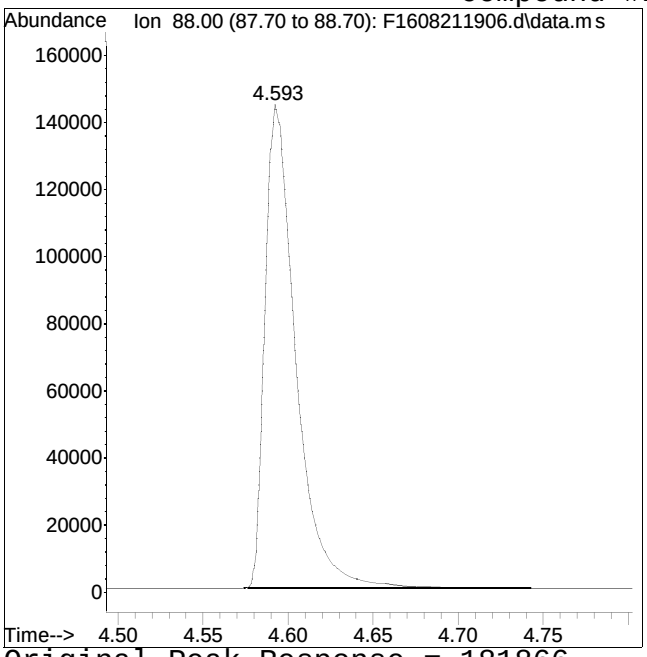


Manual Integration/Negative Proof Report

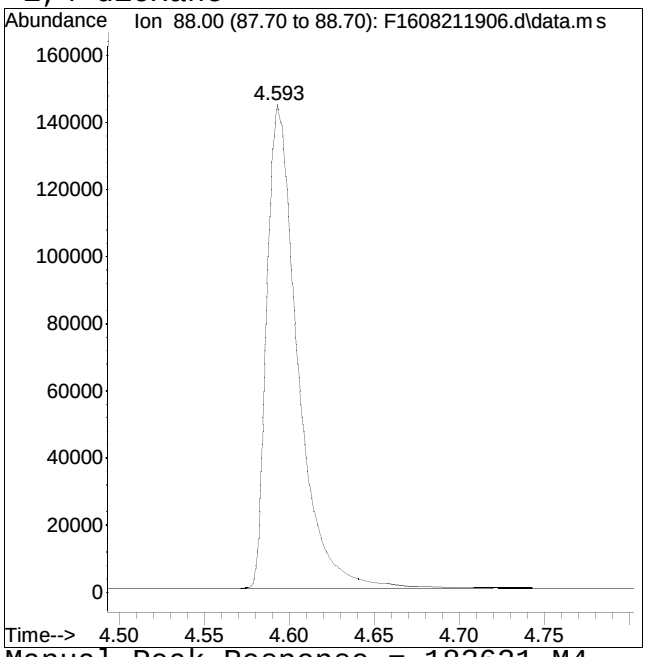
Data Path : O:\Organics\DATA\PAH16\2019Q
Data File : F1608211906.d
Date Inj'd : 8/21/2019 6:13 pm
Sample : I1608211905

Method : 14DIOX0821PAH16.M
Operator : PAH16:MA
Instrument : PAH16
Quant Date : 8/22/2019 8:50 am

Compound #2: 1,4-dioxane



Original Peak Response = 181866



Manual Peak Response = 183621 M4

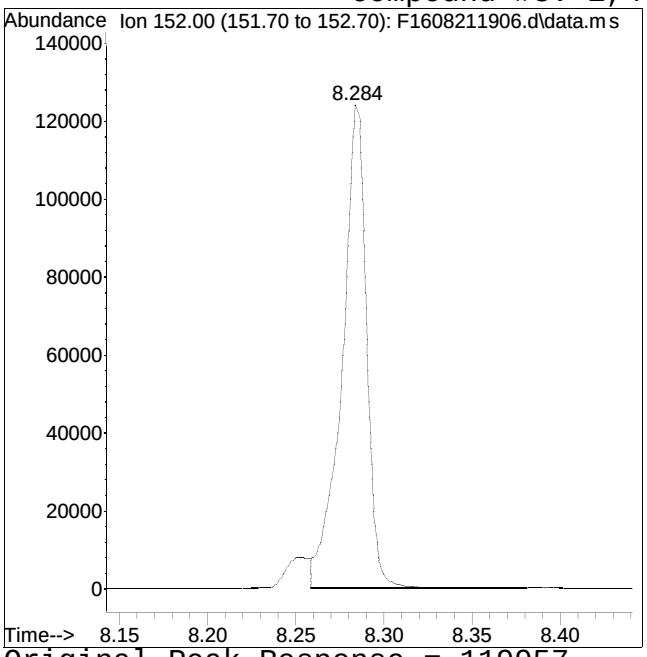
M4 = Poor automated baseline construction.

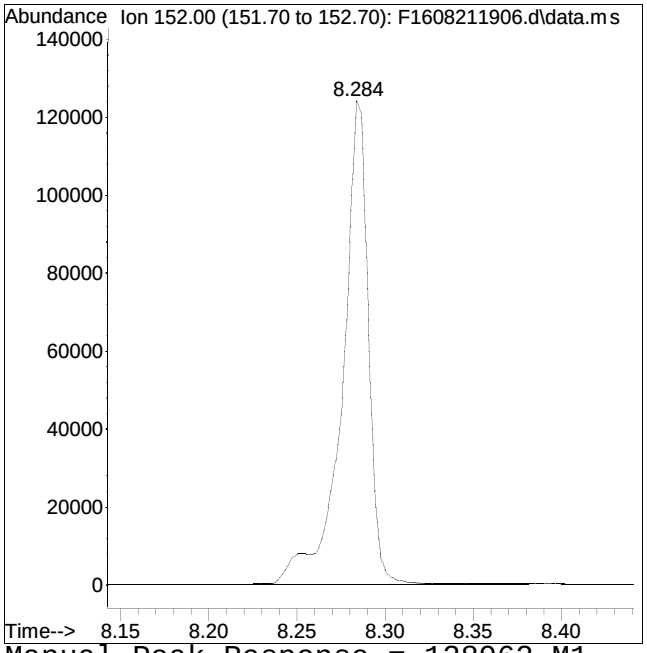
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\PAH16\2019Q
Data File : F1608211906.d
Date Inj'd : 8/21/2019 6:13 pm
Sample : I1608211905

Method : 14DIOX0821PAH16.M
Operator : PAH16:MA
Instrument : PAH16
Quant Date : 8/22/2019 8:50 am

Compound #3: 1,4-Dichlorobenzene-d4





Original Peak Response = 119957 Manual Peak Response = 128962 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\
Data File : F1608211907.d
Acq On : 21 Aug 2019 6:42 pm
Operator : PAH16:MA
Sample : I1608211906
Misc : WG1275458,,MSBA08
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 22 08:50:46 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Aug 22 08:50:06 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.554	64	61168	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	8.283	152	144463M1	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.554	64	61168	486.733	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 97.35%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.595	88	872989M4	4994.246	ng/mL	

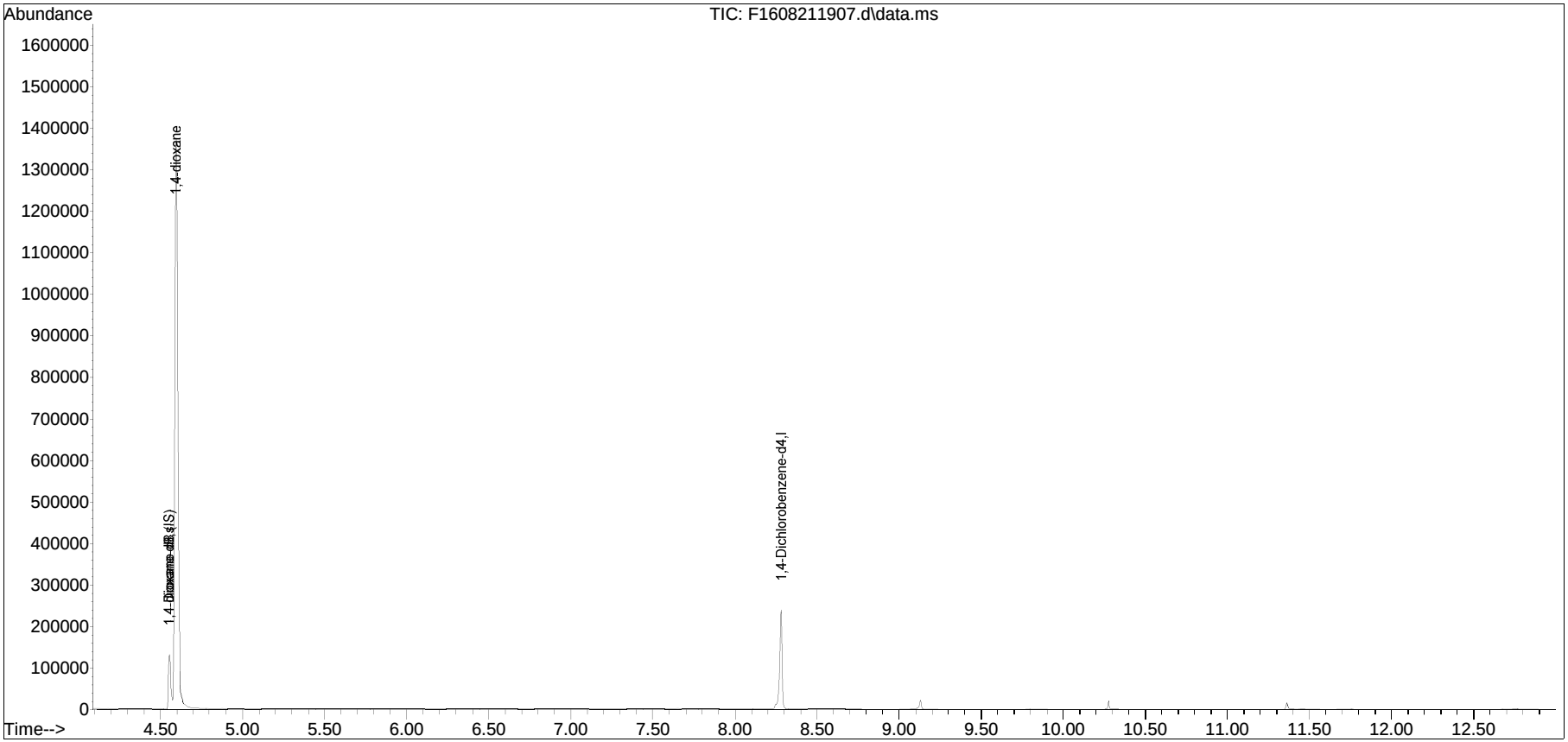
(#) = qualifier out of range (m) = manual integration (+) = signals summed

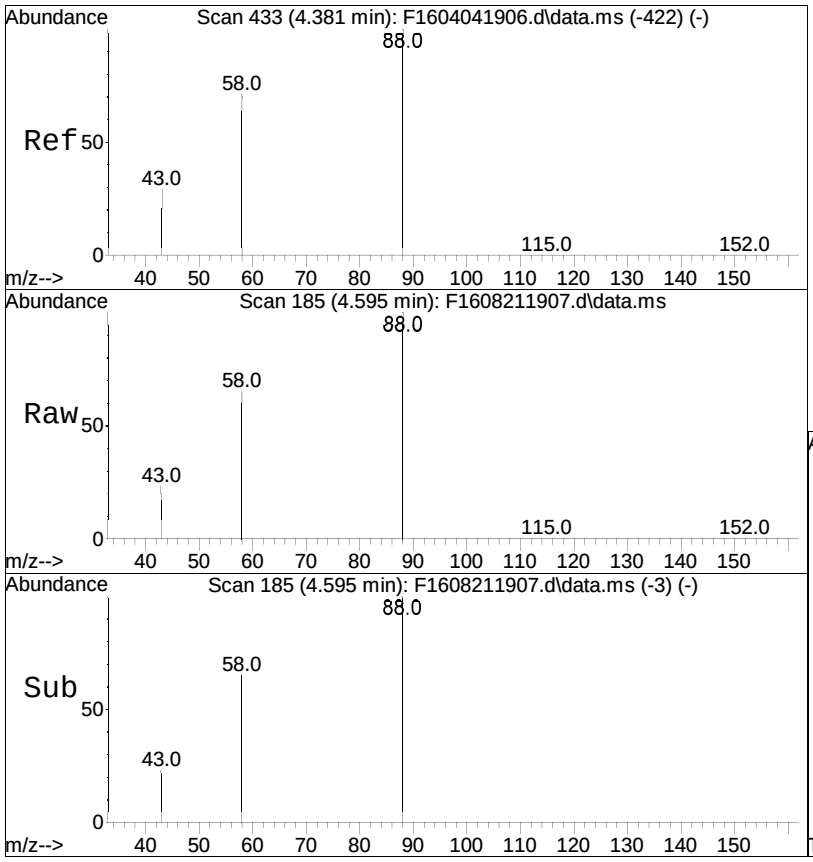
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\
Data File : F1608211907.d
Acq On : 21 Aug 2019 6:42 pm
Operator : PAH16:MA
Sample : I1608211906
Misc : WG1275458,,MSBA08
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 22 08:50:46 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Aug 22 08:50:06 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

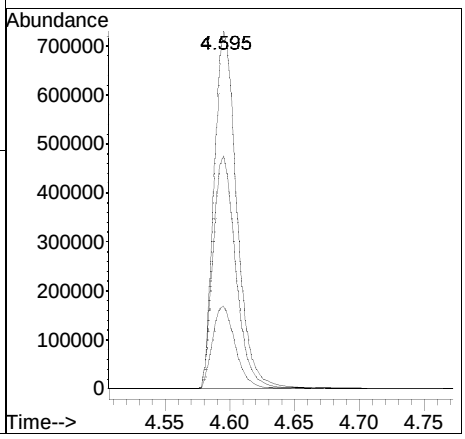




#2
1,4-dioxane
Concen: 4994.25 ng/mL M4
RT: 4.595 min Scan# 185
Delta R.T. 0.003 min
Lab File: F1608211907.d
Acq: 21 Aug 2019 6:42 pm

Tgt Ion: 88 Resp: 872989

Ion	Ratio	Lower	Upper
88	100		
58	65.9	57.3	85.9
43	23.3	18.3	27.5

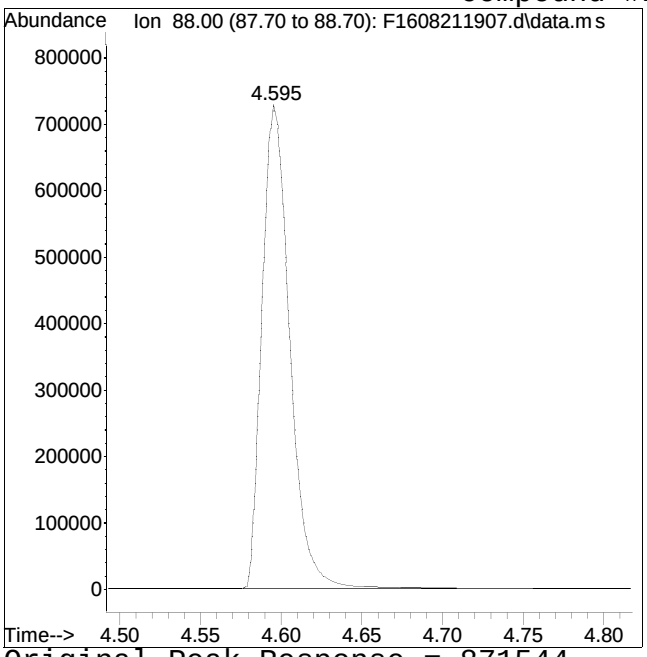


Manual Integration/Negative Proof Report

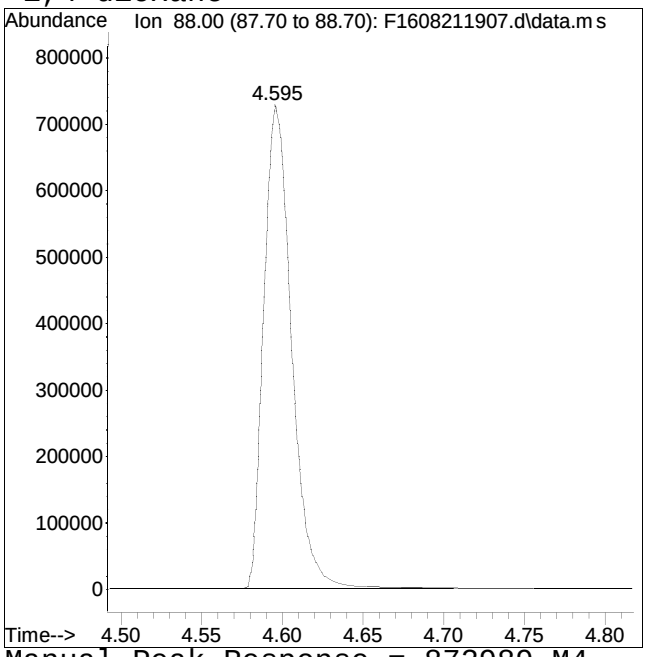
Data Path : O:\Organics\DATA\PAH16\2019Q
Data File : F1608211907.d
Date Inj'd : 8/21/2019 6:42 pm
Sample : I1608211906

Method : 14DIOX0821PAH16.M
Operator : PAH16:MA
Instrument : PAH16
Quant Date : 8/22/2019 8:50 am

Compound #2: 1,4-dioxane



Original Peak Response = 871544



Manual Peak Response = 872989 M4

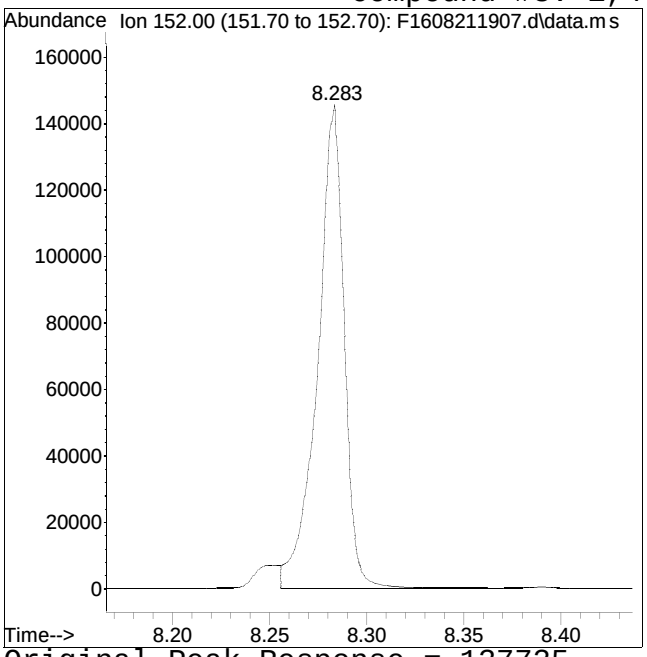
M4 = Poor automated baseline construction.

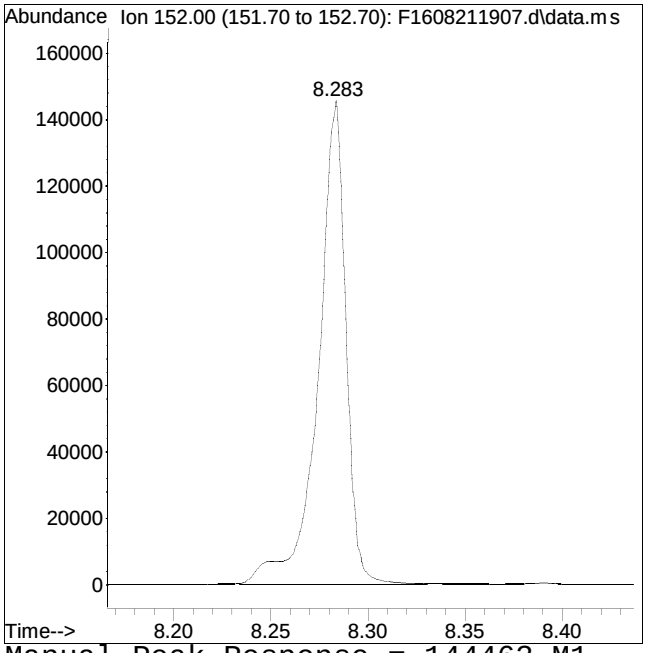
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\PAH16\2019Q
Data File : F1608211907.d
Date Inj'd : 8/21/2019 6:42 pm
Sample : I1608211906

Method : 14DIOX0821PAH16.M
Operator : PAH16:MA
Instrument : PAH16
Quant Date : 8/22/2019 8:50 am

Compound #3: 1,4-Dichlorobenzene-d4





Original Peak Response = 137735 Manual Peak Response = 144463 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\
Data File : F1608211908.d
Acq On : 21 Aug 2019 7:11 pm
Operator : PAH16:MA
Sample : I1608211907
Misc : WG1275458,,MSBA02
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 22 08:50:51 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Aug 22 08:50:06 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.546	64	62373	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	8.283	152	148465M1	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.546	64	62373	482.942	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 96.59%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.587	88	1655774	9289.447	ng/mL	94

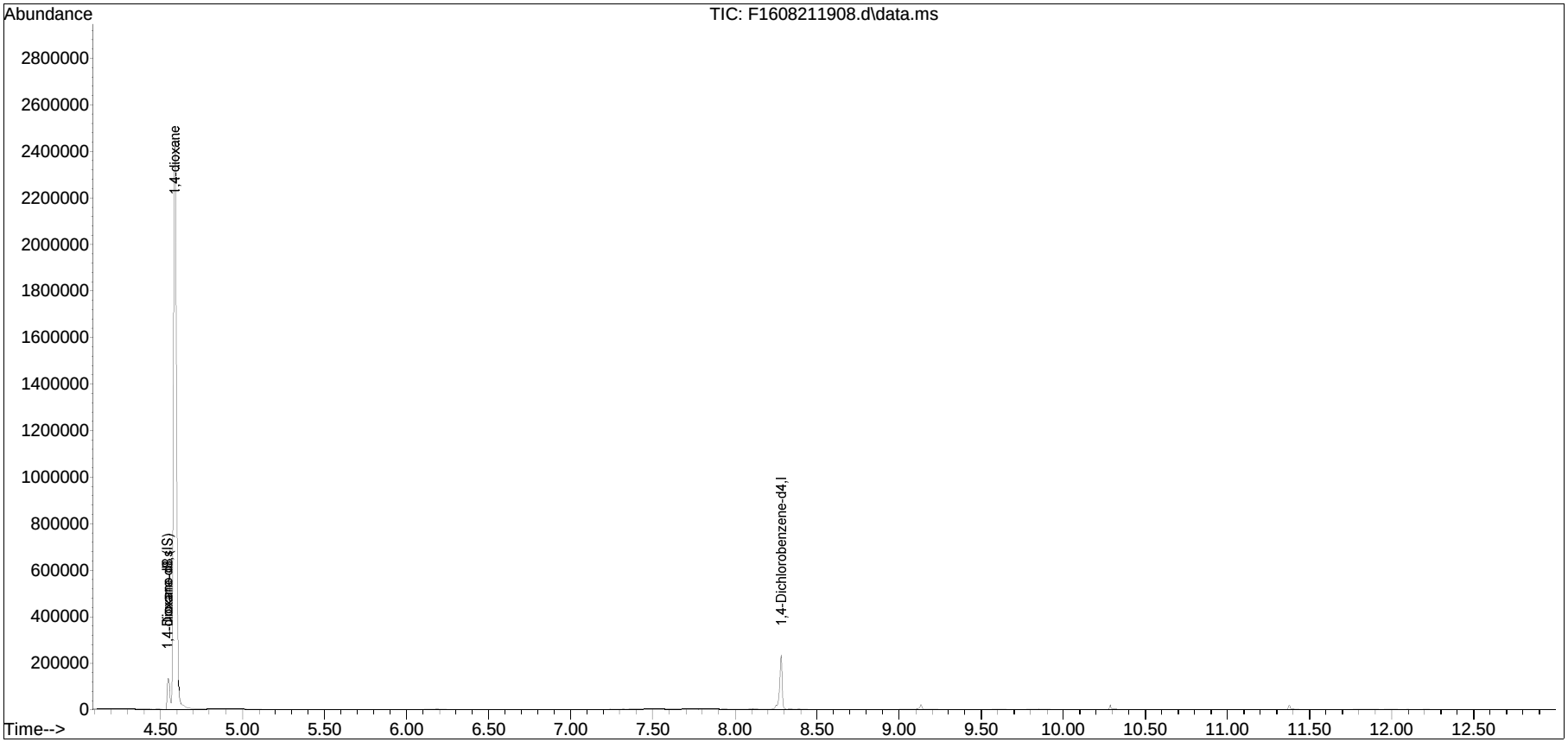
(#) = qualifier out of range (m) = manual integration (+) = signals summed

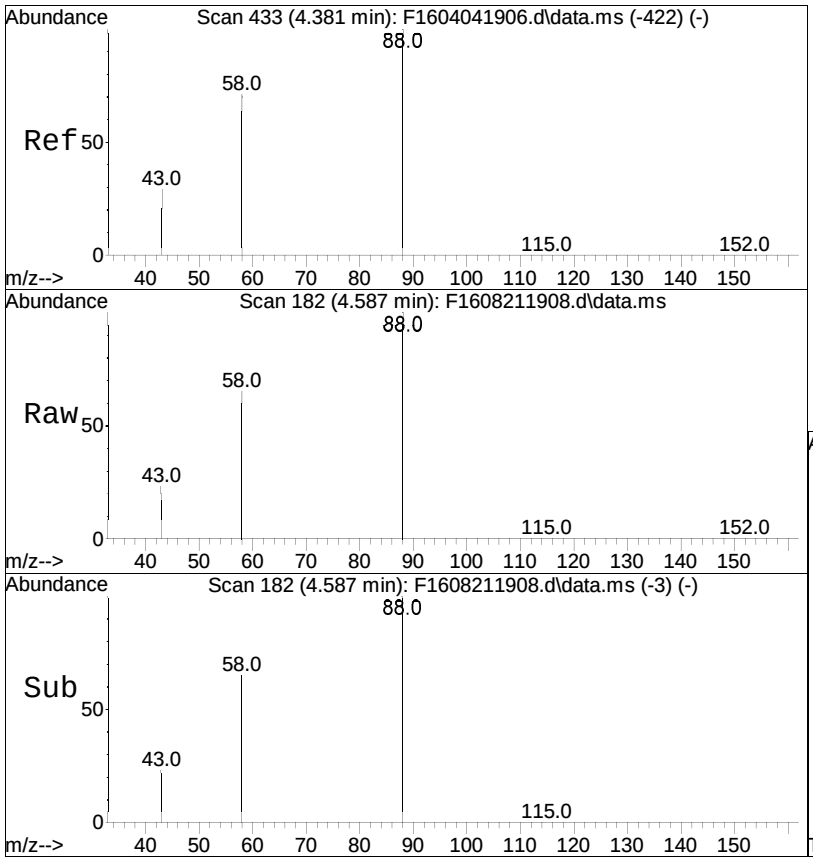
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\
Data File : F1608211908.d
Acq On : 21 Aug 2019 7:11 pm
Operator : PAH16:MA
Sample : I1608211907
Misc : WG1275458,,MSBA02
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 22 08:50:51 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Aug 22 08:50:06 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

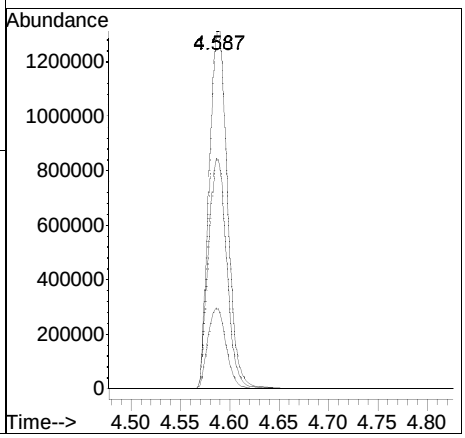




#2
1,4-dioxane
Concen: 9289.45 ng/mL
RT: 4.587 min Scan# 182
Delta R.T. -0.006 min
Lab File: F1608211908.d
Acq: 21 Aug 2019 7:11 pm

Tgt Ion: 88 Resp: 1655774

Ion	Ratio	Lower	Upper
88	100		
58	65.0	57.3	85.9
43	22.7	18.3	27.5

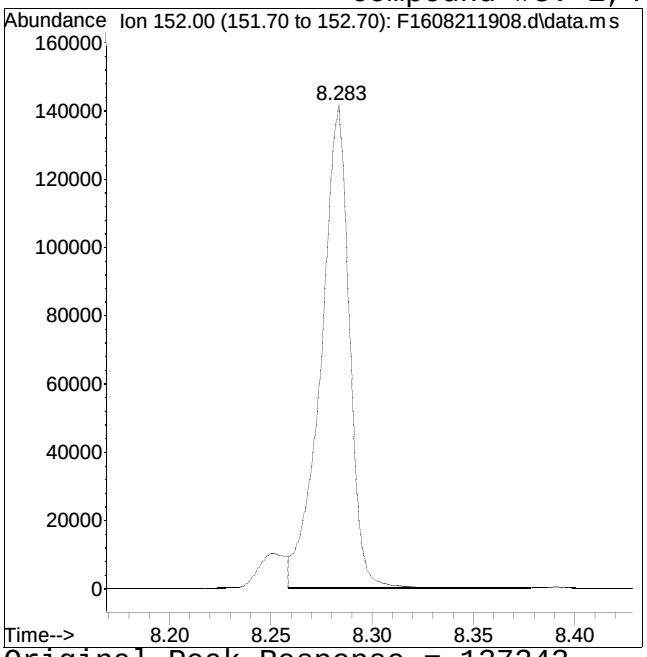


Manual Integration/Negative Proof Report

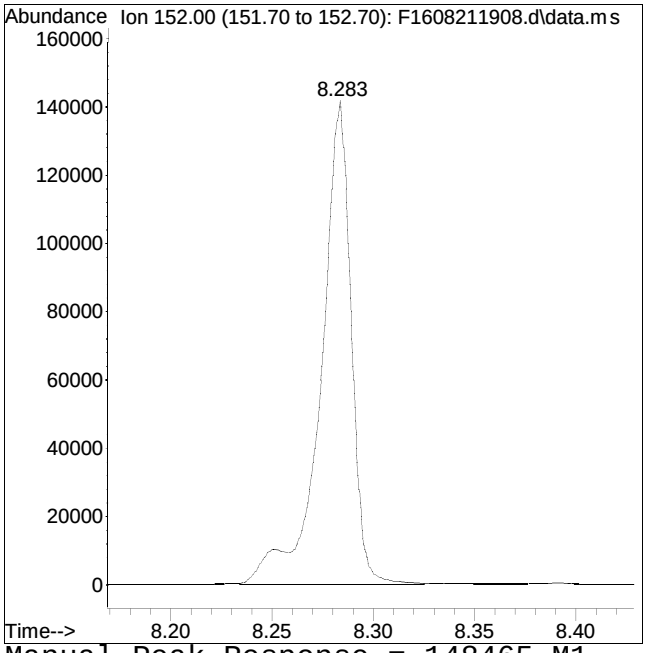
Data Path : O:\Organics\DATA\PAH16\2019Q
Data File : F1608211908.d
Date Inj'd : 8/21/2019 7:11 pm
Sample : I1608211907

Method : 14DIOX0821PAH16.M
Operator : PAH16:MA
Instrument : PAH16
Quant Date : 8/22/2019 8:50 am

Compound #3: 1,4-Dichlorobenzene-d4



Original Peak Response = 137343



Manual Peak Response = 148465 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\
Data File : F1608211909.d
Acq On : 21 Aug 2019 7:37 pm
Operator : PAH16:MA
Sample : CQ1608211901
Misc : WG1275458,,MSBB29
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 22 08:54:03 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Aug 22 08:50:06 2019
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	1,4-Dioxane-d8 (IS)	1.000	1.000	0.0	100	-0.05
2	1,4-dioxane	1.429	1.400	2.0	92	-0.04
3 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	111	0.00
4 s	1,4-dioxane-d8	0.435	0.422	3.0	97	-0.05

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\
Data File : F1608211909.d
Acq On : 21 Aug 2019 7:37 pm
Operator : PAH16:MA
Sample : CQ1608211901
Misc : WG1275458,,MSBB29
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 22 08:54:03 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Aug 22 08:50:06 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.501	64	60628	500.000	ng/mL	-0.05
3) 1,4-Dichlorobenzene-d4	8.281	152	143694M1	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.501	64	60628	485.017	ng/mL	-0.05
Spiked Amount 500.000	Range 15 - 115		Recovery = 97.00%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.548	88	169774	979.904	ng/mL	94

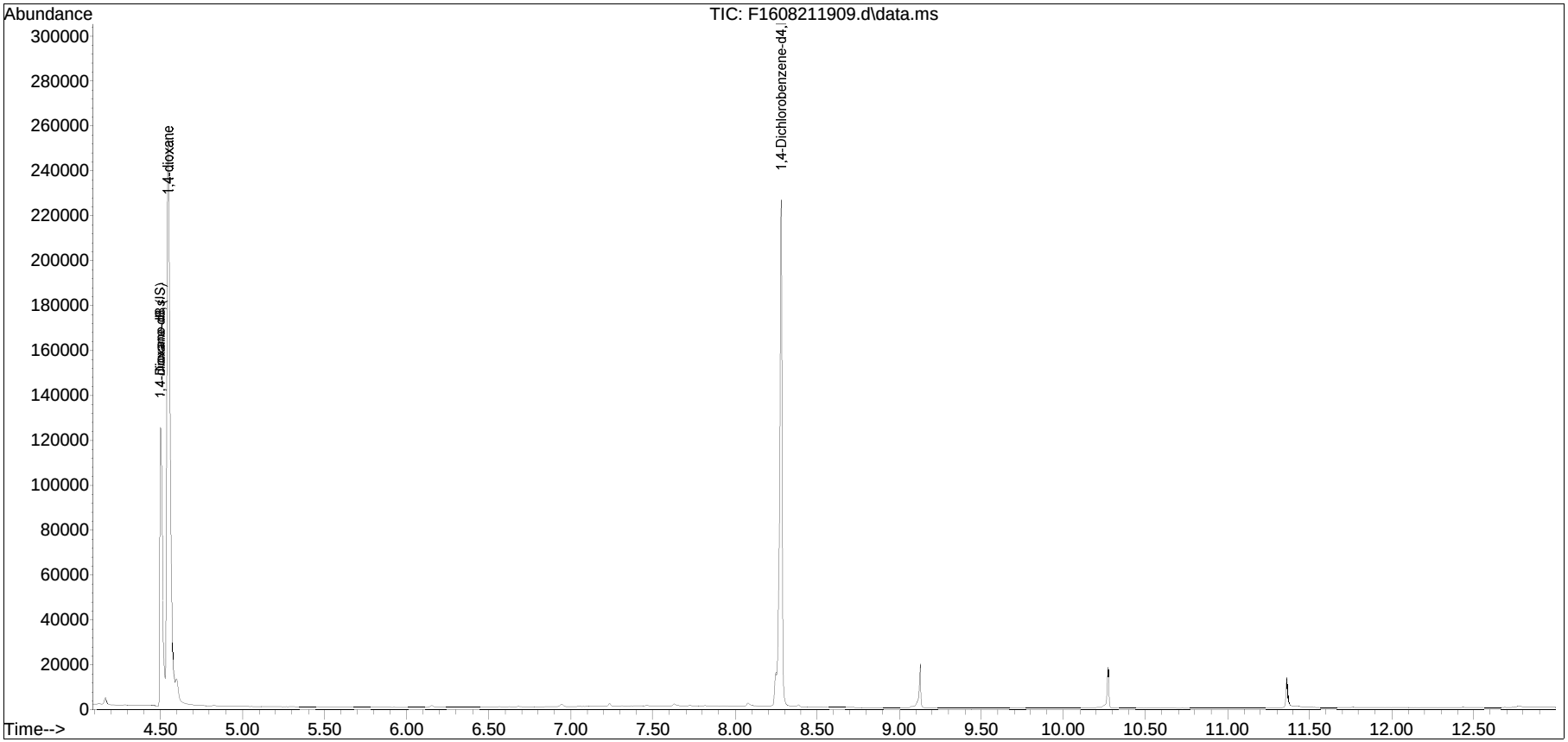
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\
Data File : F1608211909.d
Acq On : 21 Aug 2019 7:37 pm
Operator : PAH16:MA
Sample : CQ1608211901
Misc : WG1275458,,MSBB29
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 22 08:54:03 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG21A\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Thu Aug 22 08:50:06 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

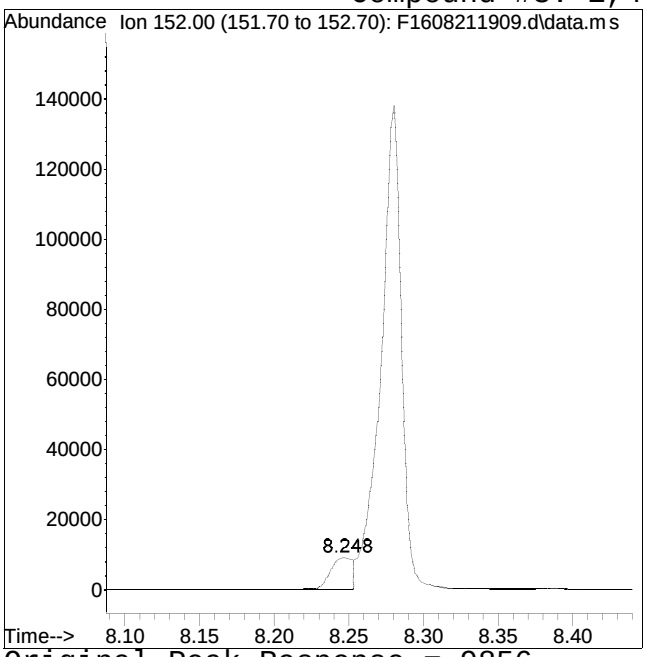


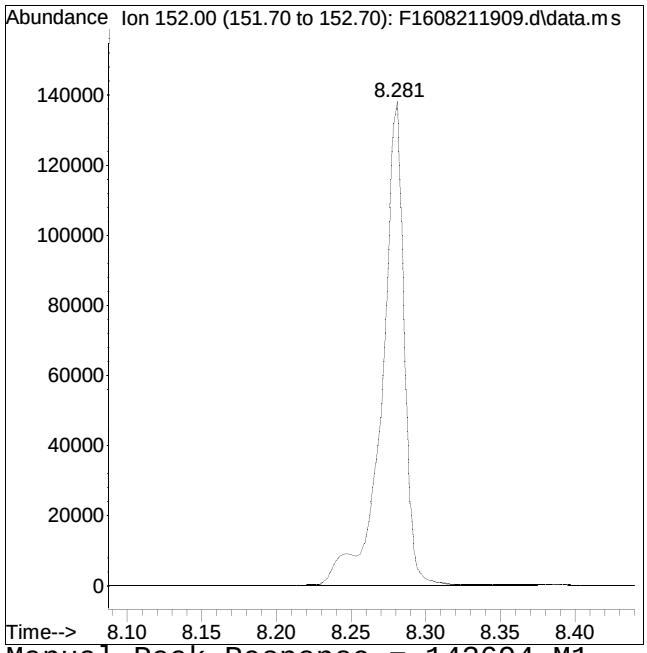
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\PAH16\2019Q
Data File : F1608211909.d
Date Inj'd : 8/21/2019 7:37 pm
Sample : CQ1608211901

Method : 14DIOX0821PAH16.M
Operator : PAH16:MA
Instrument : PAH16
Quant Date : 8/22/2019 8:53 am

Compound #3: 1,4-Dichlorobenzene-d4





Original Peak Response = 9856 Manual Peak Response = 143694 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Arcadis of New York, Inc.	**Lab Number**	: L1936410		
Project Name	: MADISON AVE MGP SITE-EC SAMP	**Project Number**	: 30030318		
Instrument ID	: PAH16	**Calibration Date**	: 08/22/19 18:49		
Lab File ID	: F1608221902	**Init. Calib. Date(s)**	: 08/21/19	08/21/19	
Sample No	: WG1275695-2	**Init. Calib. Times**	: 16:21	19:11	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dioxane-d8 (IS)	1	1	-	0	20	97	-.04
1,4-dioxane	1.429	1.542	-	-7.9	20	98	-.04
1,4-Dichlorobenzene-d4	1	1	-	0	20	107	0
1,4-dioxane-d8	0.435	0.423	-	2.8	20	93	-.04

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG22\
Data File : F1608221902.d
Acq On : 22 Aug 2019 6:49 pm
Operator : PAH16:MA
Sample : WG1275695-2
Misc : WG1275695,,ICAL16062,MSBA94
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 23 08:36:09 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG22\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Aug 23 08:35:44 2019
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	1,4-Dioxane-d8 (IS)	1.000	1.000	0.0	97	-0.04
2	1,4-dioxane	1.429	1.542	-7.9	98	-0.04
3 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	107	0.00
4 s	1,4-dioxane-d8	0.435	0.423	2.8	93	-0.04

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG22\
Data File : F1608221902.d
Acq On : 22 Aug 2019 6:49 pm
Operator : PAH16:MA
Sample : WG1275695-2
Misc : WG1275695,,ICAL16062,MSBA94
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 23 08:36:09 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG22\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Aug 23 08:35:44 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.526	64	58464	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	8.283	152	138213M1	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.526	64	58464	486.253	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 97.25%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.570	88	180316	1079.273	ng/mL	93

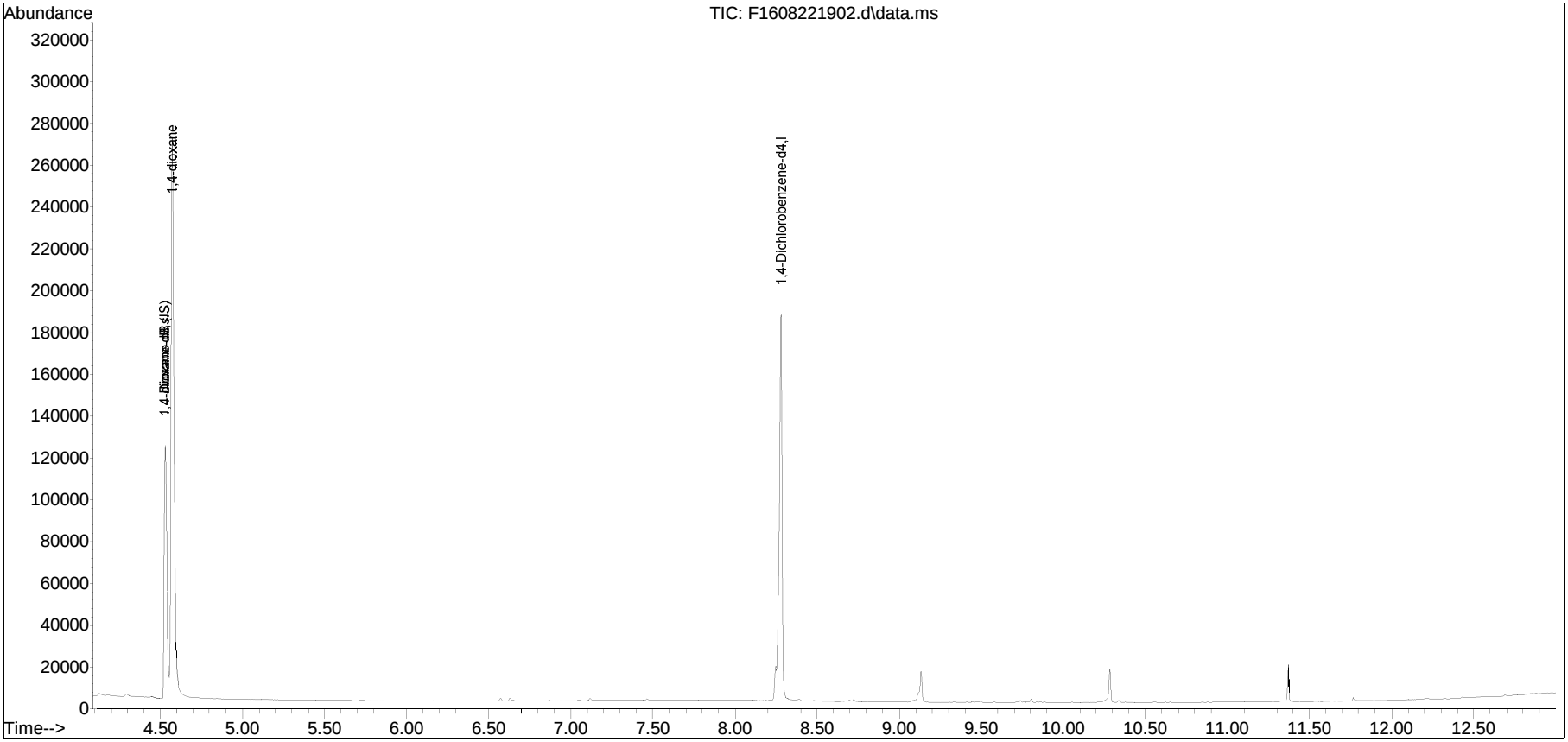
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG22\
Data File : F1608221902.d
Acq On : 22 Aug 2019 6:49 pm
Operator : PAH16:MA
Sample : WG1275695-2
Misc : WG1275695,,ICAL16062,MSBA94
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 23 08:36:09 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG22\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Aug 23 08:35:44 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

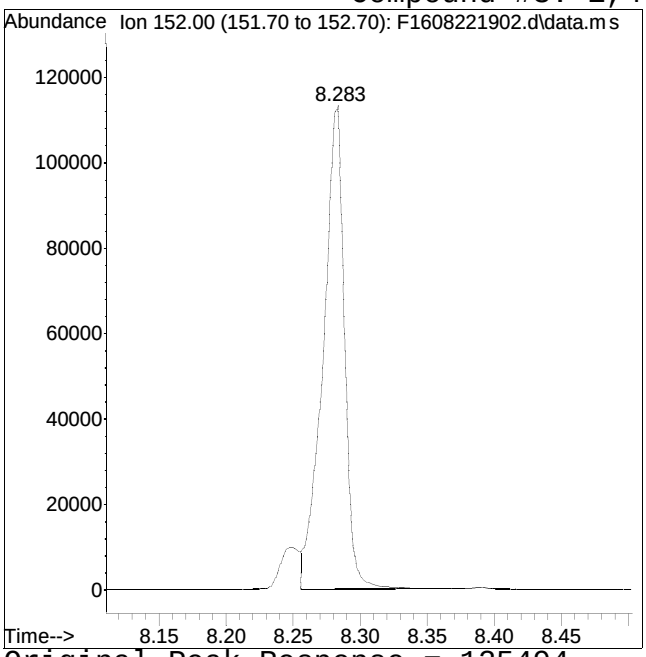


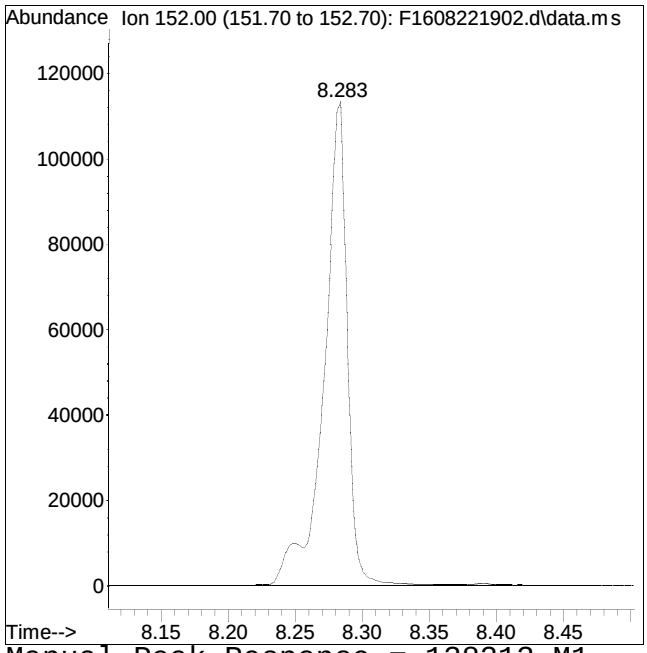
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\PAH16\2019Q
Data File : F1608221902.d
Date Inj'd : 8/22/2019 6:49 pm
Sample : WG1275695-2

Method : 14DIOX0821PAH16.M
Operator : PAH16:MA
Instrument : PAH16
Quant Date : 8/23/2019 8:36 am

Compound #3: 1,4-Dichlorobenzene-d4





Original Peak Response = 125494 Manual Peak Response = 138213 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG22\
Data File : F1608221902.d
Acq On : 22 Aug 2019 6:49 pm
Operator : PAH16:MA
Sample : WG1275695-2
Misc : WG1275695,,ICAL16062,MSBA94
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 23 08:36:09 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG22\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Aug 23 08:35:44 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.526	64	58464	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	8.283	152	138213M1	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.526	64	58464	486.253	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 97.25%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.570	88	180316	1079.273	ng/mL	93

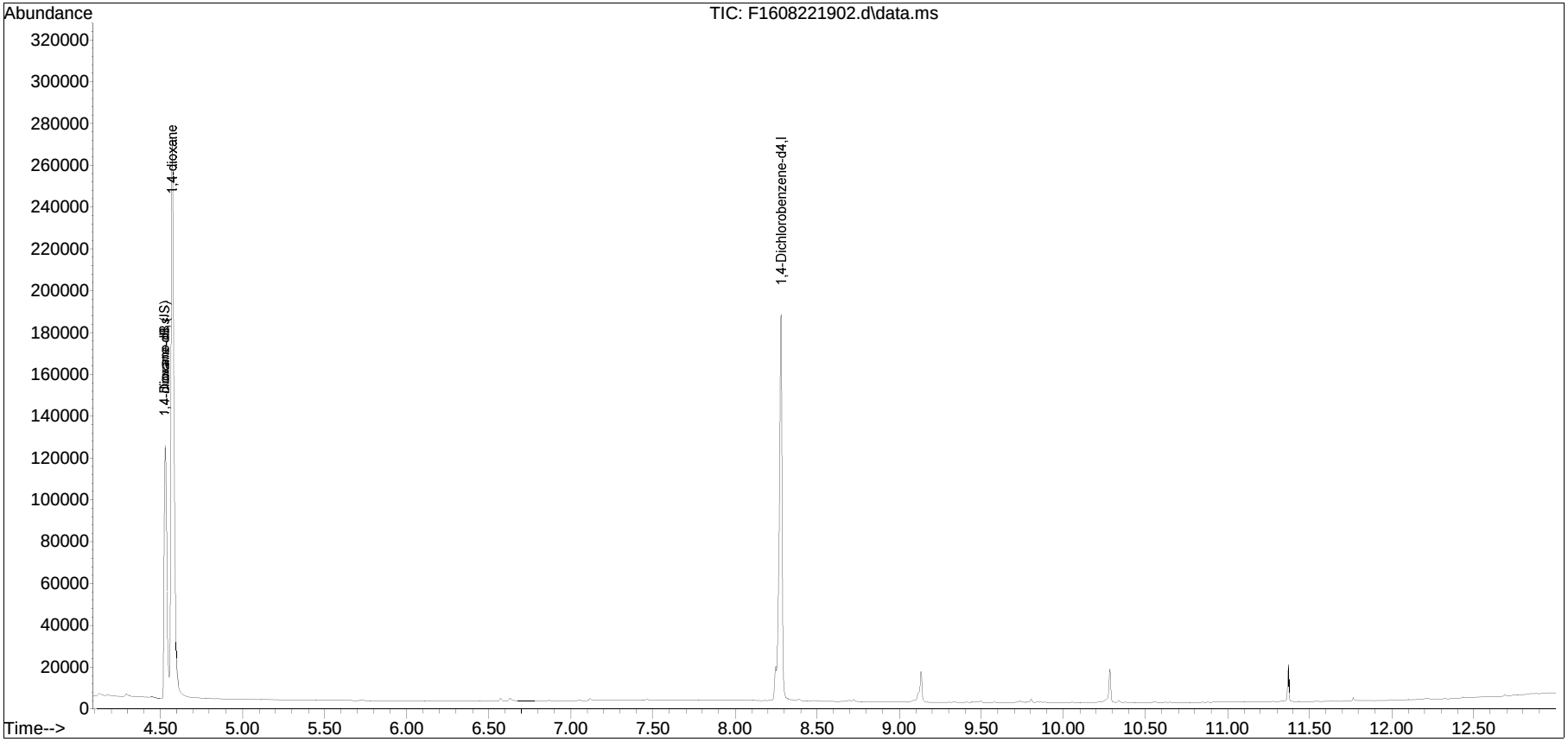
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG22\
Data File : F1608221902.d
Acq On : 22 Aug 2019 6:49 pm
Operator : PAH16:MA
Sample : WG1275695-2
Misc : WG1275695,,ICAL16062,MSBA94
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 23 08:36:09 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG22\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Aug 23 08:35:44 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

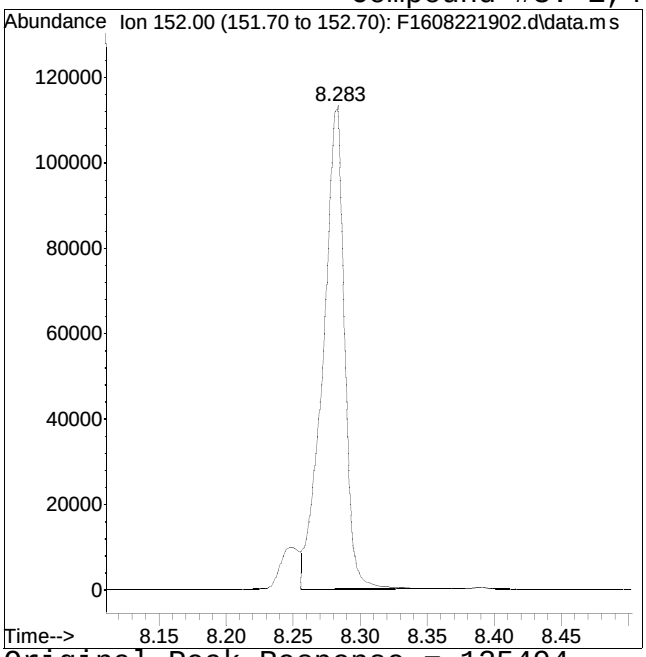


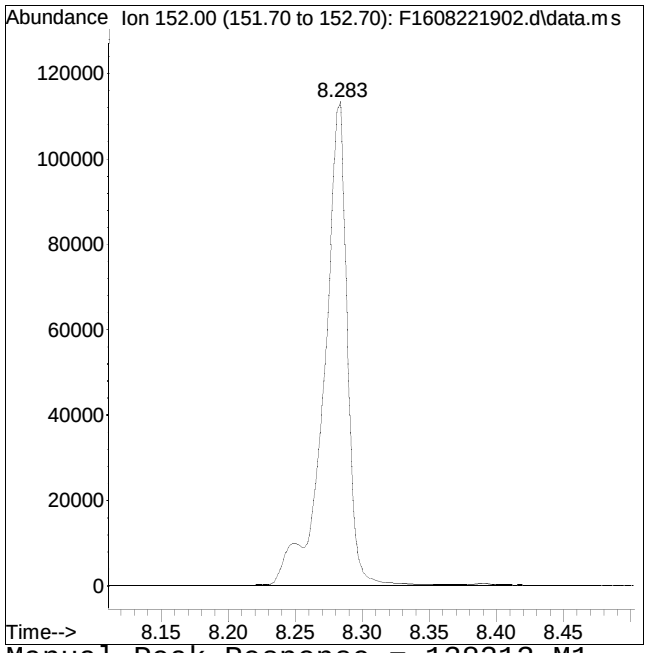
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\PAH16\2019Q
Data File : F1608221902.d
Date Inj'd : 8/22/2019 6:49 pm
Sample : WG1275695-2

Method : 14DIOX0821PAH16.M
Operator : PAH16:MA
Instrument : PAH16
Quant Date : 8/23/2019 8:36 am

Compound #3: 1,4-Dichlorobenzene-d4





Original Peak Response = 125494 Manual Peak Response = 138213 M1

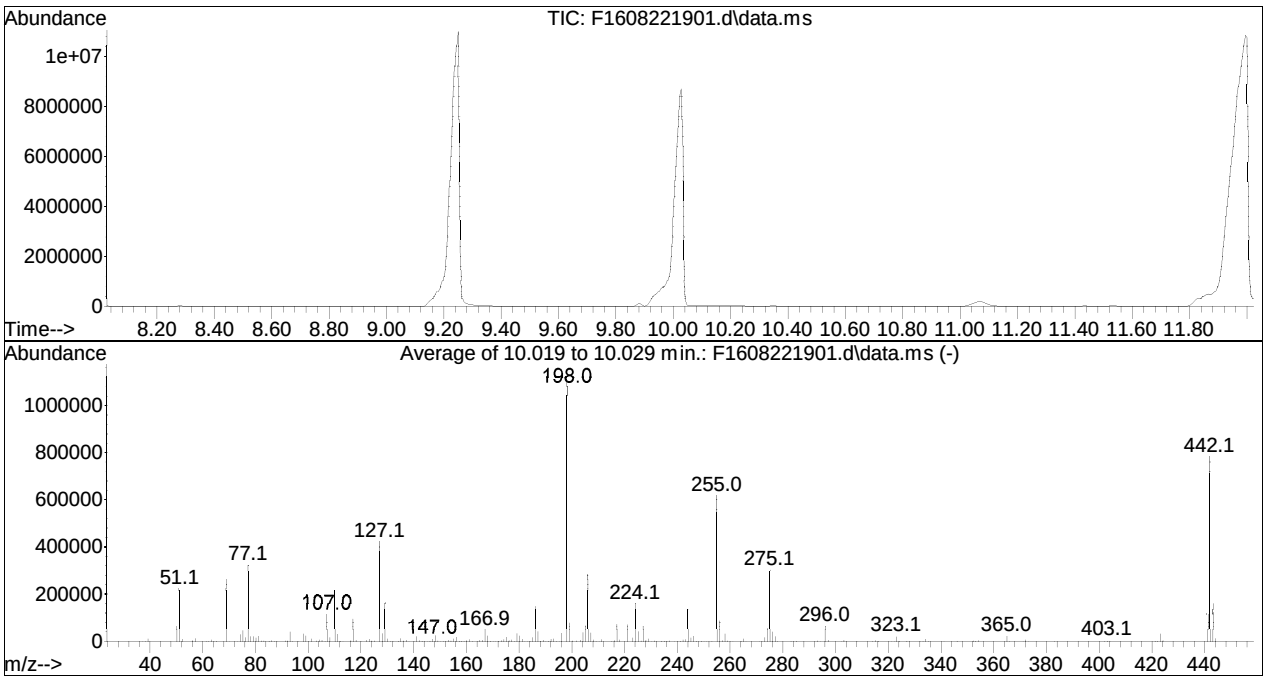
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Semivolatiles Raw QC Data

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG22\
Data File : F1608221901.d
Acq On : 22 Aug 2019 6:02 pm
Operator : PAH16:MA
Sample : WG1275695-1
Misc : WG1275695,,ICAL16062,MSBA76
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : O:\Organics\DATA\PAH16\2019\AUG\AUG22\14DIOX0821PAH16.M
Title : Semivolatiles by GC/MS
Last Update : Fri Aug 23 11:17:03 2019



Spectrum Information: Average of 10.019 to 10.029 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	19.9	223086	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.6	1653	PASS
127	198	10	80	37.7	421300	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	1118804	PASS
199	198	5	9	6.8	75845	PASS
275	198	10	60	27.0	301959	PASS
365	198	1	100	2.1	23275	PASS
441	442	0.01	24	14.7	115365	PASS
442	198	50	100	70.1	784184	PASS
443	442	15	24	20.2	158083	PASS

Analysis log File

Total Files Reported in Log : 43
Log Generated From Directory: O:\Organics\DATA\PAH16\2019\AUG\AUG21A\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	F1608211901.d	DFTPP_PAH16.	T1608211901	WG1275458,,MSBA76	8/21/2019 3:32 pm
2	F1608211902.d	14DIOXANEPAH	I1608211901	WG1275458,,MSBA03	8/21/2019 4:21 pm
3	F1608211903.d	14DIOXANEPAH	I1608211902	WG1275458,,MSBA04	8/21/2019 4:47 pm
4	F1608211904.d	14DIOXANEPAH	I1608211903	WG1275458,,MSBA05	8/21/2019 5:15 pm
5	F1608211905.d	14DIOXANEPAH	I1608211904	WG1275458,,MSBA06	8/21/2019 5:43 pm
6	F1608211906.d	14DIOXANEPAH	I1608211905	WG1275458,,MSBA94	8/21/2019 6:13 pm
7	F1608211907.d	14DIOXANEPAH	I1608211906	WG1275458,,MSBA08	8/21/2019 6:42 pm
8	F1608211908.d	14DIOXANEPAH	I1608211907	WG1275458,,MSBA02	8/21/2019 7:11 pm
9	F1608211909.d	14DIOXANEPAH	CQ1608211901	WG1275458,,MSBB29	8/21/2019 7:37 pm
10	F1608211910.d	DFTPP_PAH16.	DFTPP		8/21/2019 7:57 pm
11	F1608211911.d	14DIOXANEPAH	CCV		8/21/2019 8:45 pm
12	F1608211912.d	14DIOXANEPAH	WG1274230-1		8/21/2019 9:13 pm
13	F1608211913.d	14DIOXANEPAH	WG1274230-2		8/21/2019 9:38 pm
14	F1608211914.d	14DIOXANEPAH	WG1274230-3		8/21/2019 10:01 pm
15	F1608211915.d	14DIOXANEPAH	L1936481-01		8/21/2019 10:25 pm
16	F1608211916.d	14DIOXANEPAH	L1936481-02		8/21/2019 10:49 pm
17	F1608211917.d	14DIOXANEPAH	L1936481-03		8/21/2019 11:12 pm
18	F1608211918.d	14DIOXANEPAH	WG1274230-6		8/21/2019 11:35 pm
19	F1608211919.d	14DIOXANEPAH	WG1274230-7		8/21/2019 11:57 pm
20	F1608211920.d	14DIOXANEPAH	L1936481-04		8/22/2019 12:20 am
21	F1608211921.d	14DIOXANEPAH	L1936625-01		8/22/2019 12:43 am
22	F1608211922.d	14DIOXANEPAH	WG1274230-4		8/22/2019 1:05 am
23	F1608211923.d	14DIOXANEPAH	WG1274230-5		8/22/2019 1:28 am
24	F1608211924.d	14DIOXANEPAH	L1936625-03		8/22/2019 1:50 am
25	F1608211925.d	14DIOXANEPAH	L1936625-05		8/22/2019 2:12 am
26	F1608211926.d	14DIOXANEPAH	L1936625-07		8/22/2019 2:34 am
27	F1608211927.d	14DIOXANEPAH	L1936625-09		8/22/2019 2:56 am
28	F1608211928.d	14DIOXANEPAH	L1936625-11		8/22/2019 3:18 am
29	F1608211929.d	14DIOXANEPAH	L1936625-13		8/22/2019 3:40 am
30	F1608211930.d	14DIOXANEPAH	L1936971-01		8/22/2019 4:02 am
31	F1608211931.d	14DIOXANEPAH	L1936971-03		8/22/2019 4:23 am
32	F1608211932.d	14DIOXANEPAH	L1936971-05		8/22/2019 4:45 am
33	F1608211933.d	14DIOXANEPAH	L1936971-07		8/22/2019 5:08 am
34	F1608211934.d	14DIOXANEPAH	L1936971-09		8/22/2019 5:30 am
35	F1608211935.d	14DIOXANEPAH	L1936971-11		8/22/2019 5:52 am
36	F1608211936.d	DFTPP_PAH16.	DFTPP		8/22/2019 6:11 am
37	F1608211937.d	14DIOXANEPAH	CCV		8/22/2019 6:47 am
38	F1608211938.d	14DIOXANEPAH	WG1272631-1		8/22/2019 7:09 am
39	F1608211939.d	14DIOXANEPAH	WG1272631-2		8/22/2019 7:31 am
40	F1608211940.d	14DIOXANEPAH	WG1272631-3		8/22/2019 7:54 am
41	F1608211941.d	14DIOXANEPAH	L1935559-01		8/22/2019 8:16 am
42	F1608211942.d	14DIOXANEPAH	L1935940-01		8/22/2019 8:38 am
43	F1608211943.d	14DIOXANEPAH	WG1272632-4		8/22/2019 9:02 am

SeqLog 1.0 - (c) 2009 Abacus Database Applications

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG22\
Data File : F1608221903.d
Acq On : 22 Aug 2019 7:16 pm
Operator : PAH16:MA
Sample : WG1274634-1
Misc : WG1275695,WG1274634,ICAL16062
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 23 08:57:40 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG22\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Aug 23 08:35:44 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.573	64	30746	500.000	ng/mL	0.05
3) 1,4-Dichlorobenzene-d4	8.281	152	151487M1	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.573	64	30746	233.311	ng/mL	0.05
Spiked Amount 500.000	Range 15 - 115		Recovery = 46.66%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.		

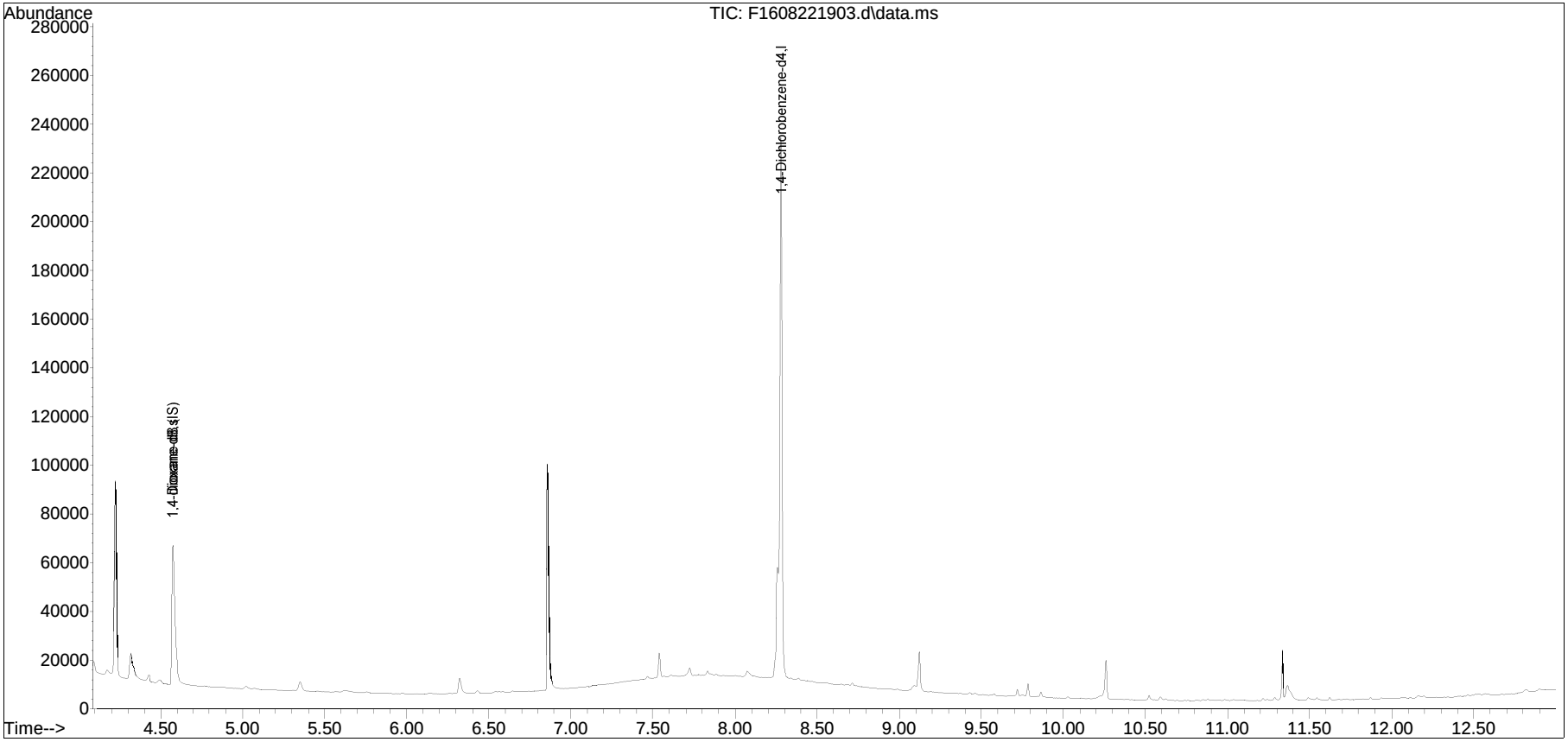
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG22\
Data File : F1608221903.d
Acq On : 22 Aug 2019 7:16 pm
Operator : PAH16:MA
Sample : WG1274634-1
Misc : WG1275695,WG1274634,ICAL16062
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 23 08:57:40 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG22\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Aug 23 08:35:44 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

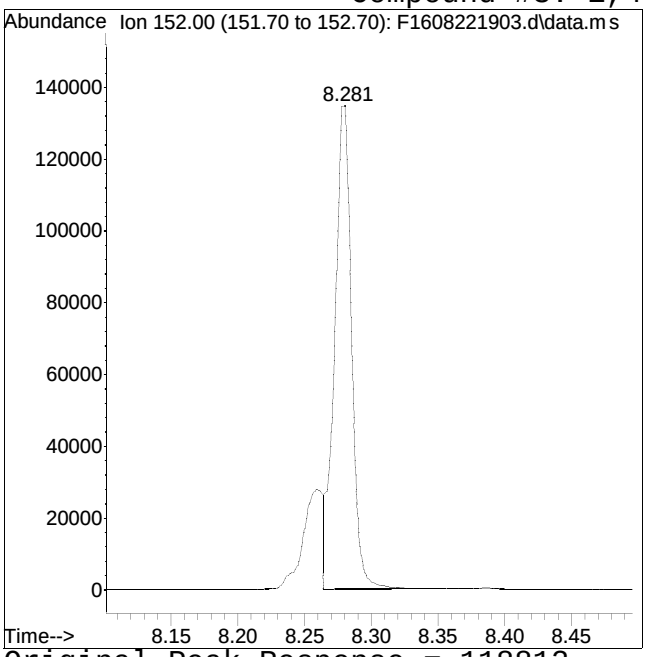


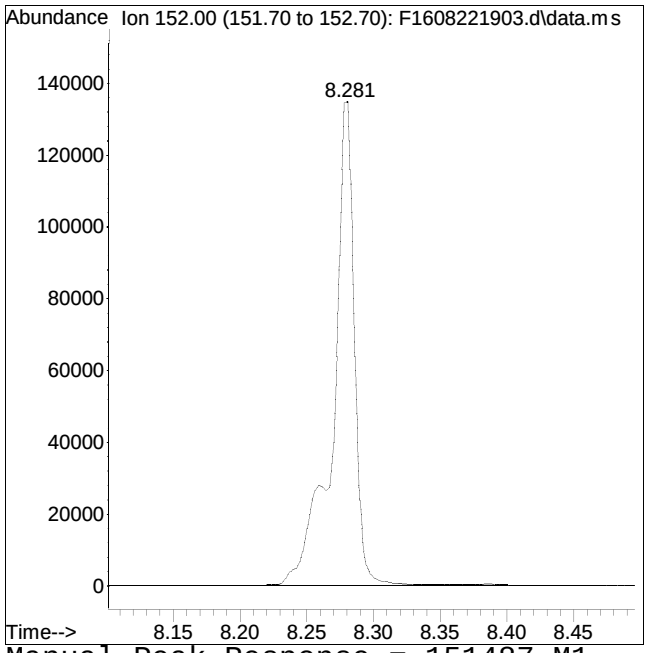
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\PAH16\2019Q
Data File : F1608221903.d
Date Inj'd : 8/22/2019 7:16 pm
Sample : WG1274634-1

Method : 14DIOX0821PAH16.M
Operator : PAH16:MA
Instrument : PAH16
Quant Date : 8/23/2019 8:49 am

Compound #3: 1,4-Dichlorobenzene-d4





Original Peak Response = 118812 Manual Peak Response = 151487 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG22\
Data File : F1608221904.d
Acq On : 22 Aug 2019 7:41 pm
Operator : PAH16:MA
Sample : WG1274634-2
Misc : WG1275695,WG1274634,ICAL16062
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 23 09:04:45 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG22\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Aug 23 08:35:44 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.584	64	14069	500.000	ng/mL	0.06
3) 1,4-Dichlorobenzene-d4	8.278	152	151213M1	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.584	64	14069	106.954	ng/mL	0.06
Spiked Amount 500.000	Range 15 - 115		Recovery = 21.39%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.631	88	22691M4	564.386	ng/mL	

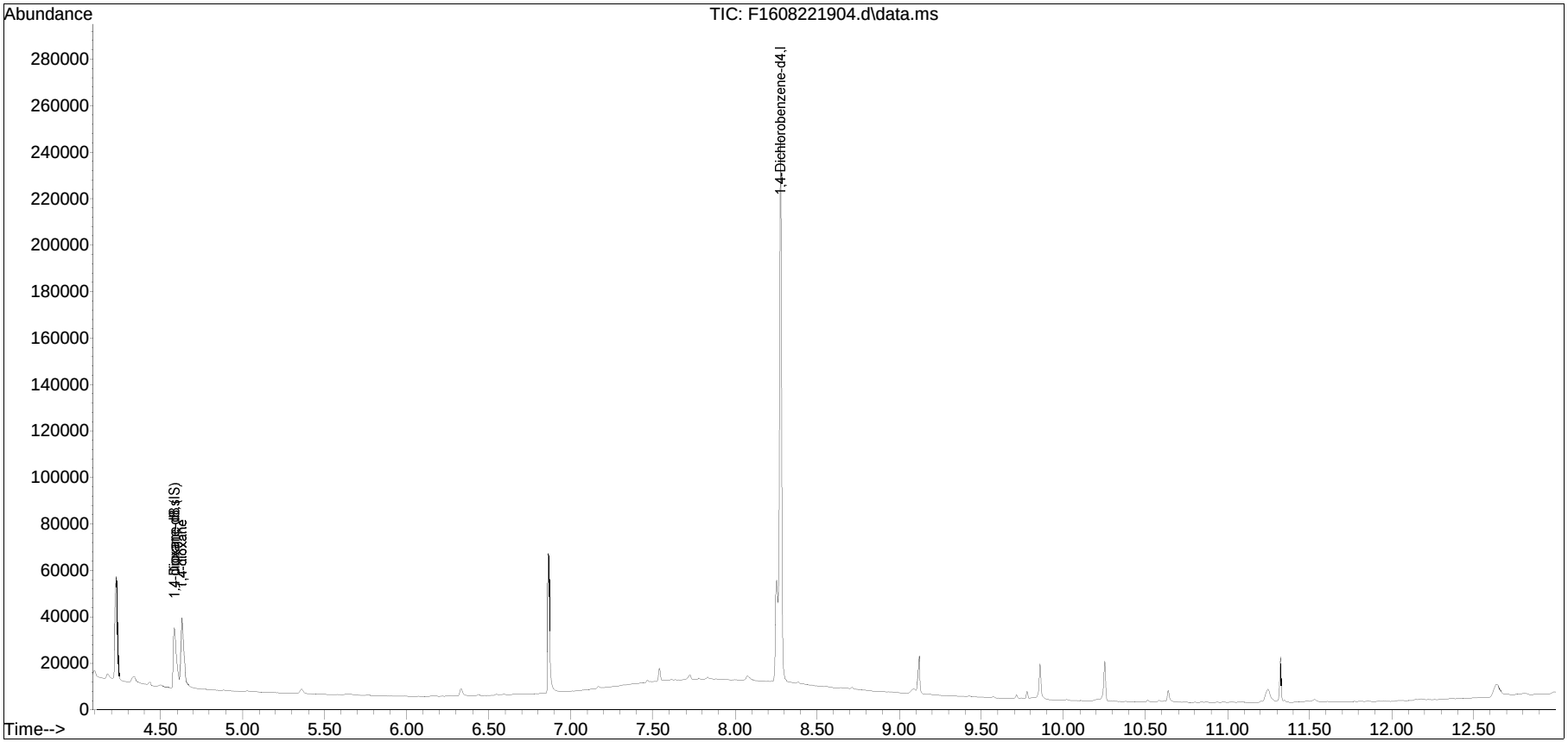
(#) = qualifier out of range (m) = manual integration (+) = signals summed

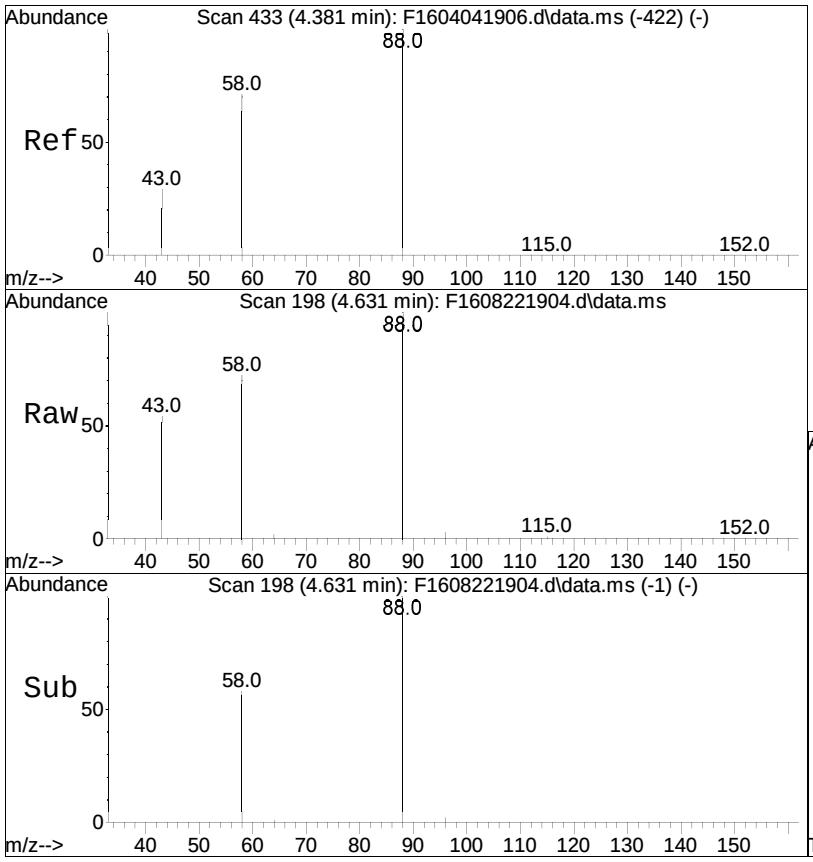
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG22\
Data File : F1608221904.d
Acq On : 22 Aug 2019 7:41 pm
Operator : PAH16:MA
Sample : WG1274634-2
Misc : WG1275695,WG1274634,ICAL16062
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 23 09:04:45 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG22\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Aug 23 08:35:44 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

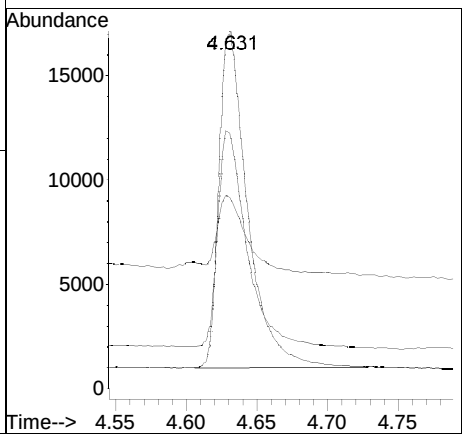




#2
1,4-dioxane
Concen: 564.39 ng/mL M4
RT: 4.631 min Scan# 198
Delta R.T. 0.061 min
Lab File: F1608221904.d
Acq: 22 Aug 2019 7:41 pm

Tgt Ion: 88 Resp: 22691

Ion	Ratio	Lower	Upper
88	100		
58	63.1	57.3	85.9
43	21.7	18.3	27.5

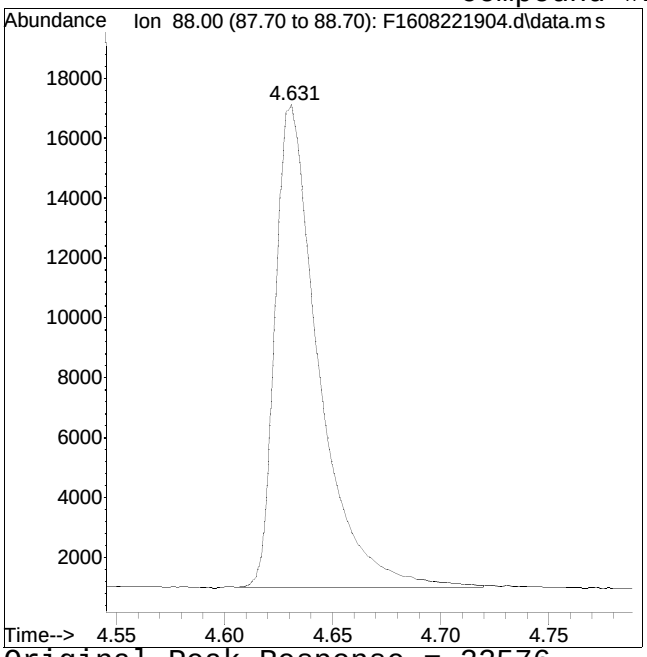


Manual Integration/Negative Proof Report

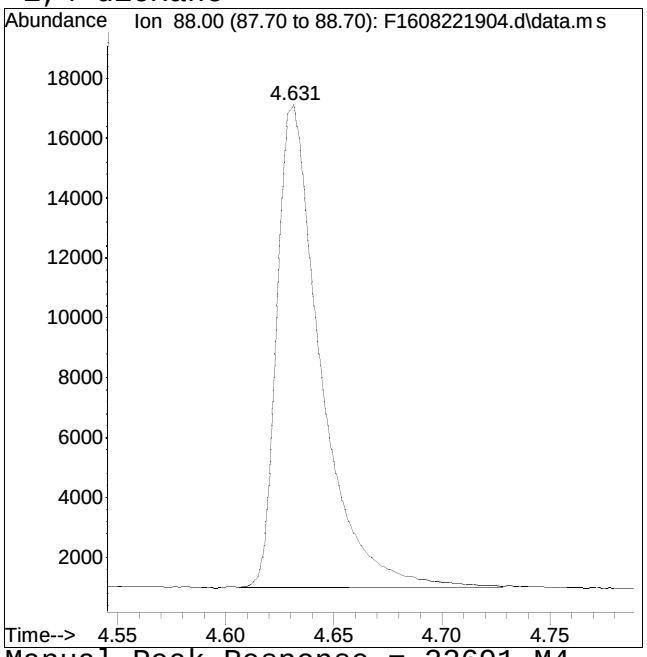
Data Path : O:\Organics\DATA\PAH16\2019Q
Data File : F1608221904.d
Date Inj'd : 8/22/2019 7:41 pm
Sample : WG1274634-2

Method : 14DIOX0821PAH16.M
Operator : PAH16:MA
Instrument : PAH16
Quant Date : 8/23/2019 8:49 am

Compound #2: 1,4-dioxane



Original Peak Response = 22576



Manual Peak Response = 22691 M4

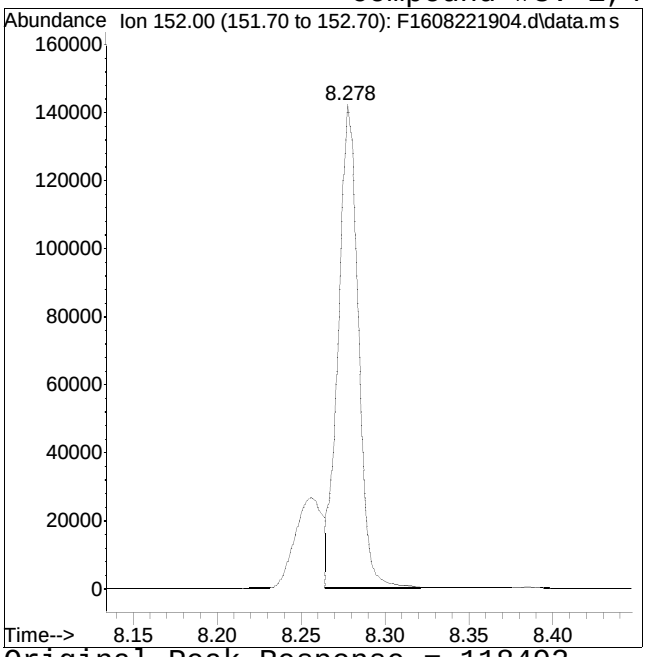
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

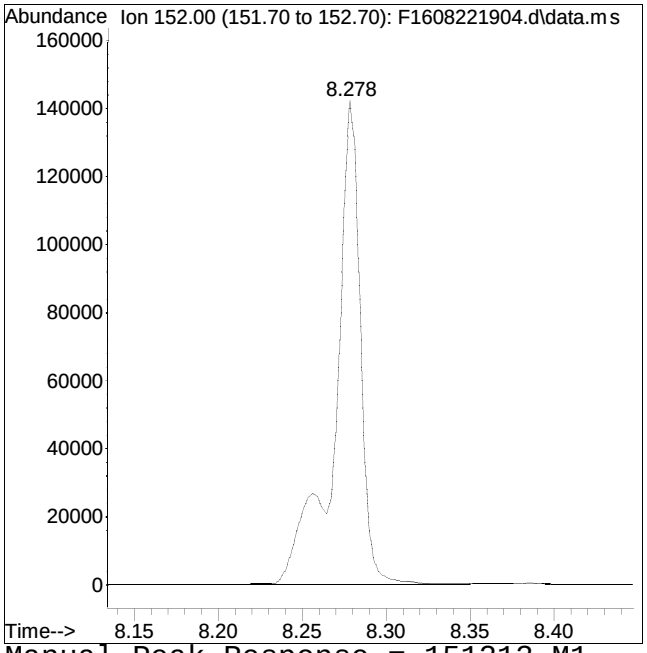
Data Path : O:\Organics\DATA\PAH16\2019Q
Data File : F1608221904.d
Date Inj'd : 8/22/2019 7:41 pm
Sample : WG1274634-2

Method : 14DIOX0821PAH16.M
Operator : PAH16:MA
Instrument : PAH16
Quant Date : 8/23/2019 8:49 am

Compound #3: 1,4-Dichlorobenzene-d4



Original Peak Response = 118492



Manual Peak Response = 151213 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG22\
Data File : F1608221905.d
Acq On : 22 Aug 2019 8:06 pm
Operator : PAH16:MA
Sample : WG1274634-3
Misc : WG1275695,WG1274634,ICAL16062
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 23 09:04:24 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG22\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Aug 23 08:35:44 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.582	64	24519	500.000	ng/mL	0.06
3) 1,4-Dichlorobenzene-d4	8.278	152	145313M1	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.582	64	24519	193.964	ng/mL	0.06
Spiked Amount 500.000	Range 15 - 115		Recovery = 38.79%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.629	88	41025M4	585.506	ng/mL	

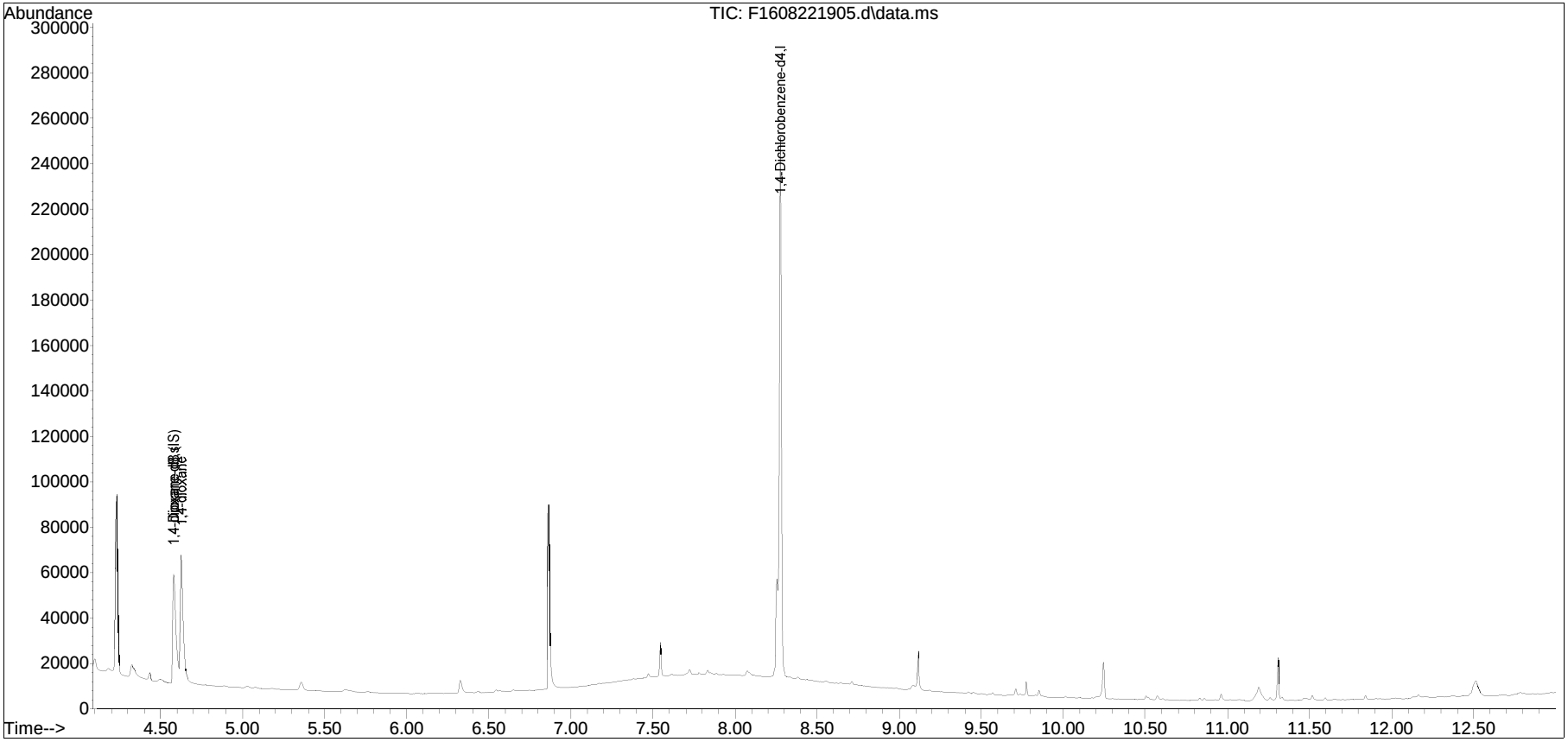
(#) = qualifier out of range (m) = manual integration (+) = signals summed

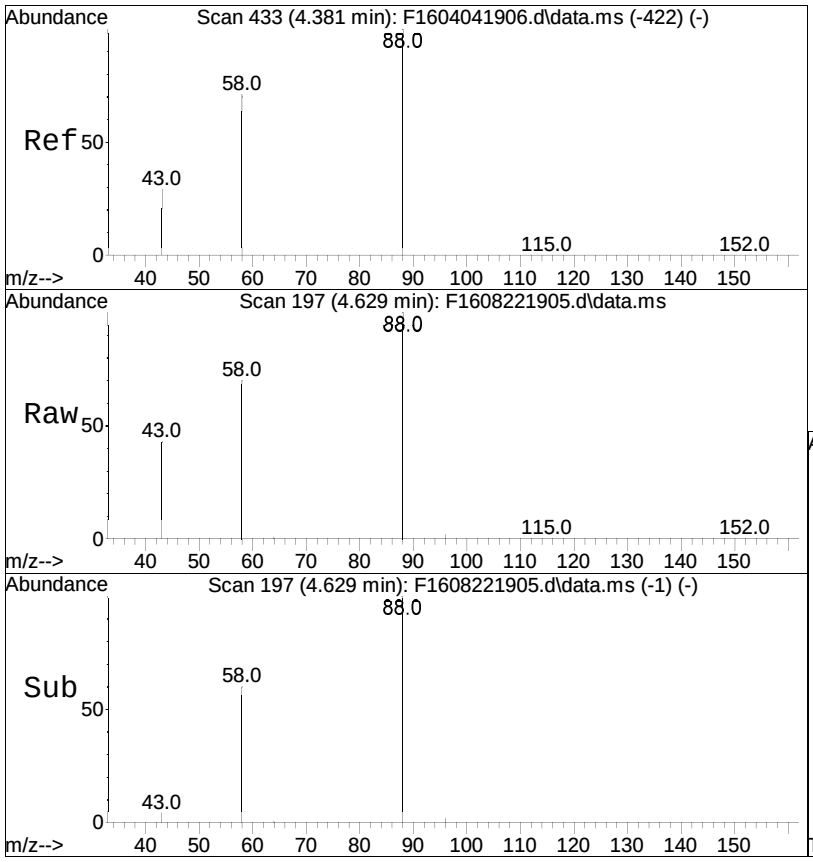
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG22\
Data File : F1608221905.d
Acq On : 22 Aug 2019 8:06 pm
Operator : PAH16:MA
Sample : WG1274634-3
Misc : WG1275695,WG1274634,ICAL16062
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 23 09:04:24 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG22\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Aug 23 08:35:44 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

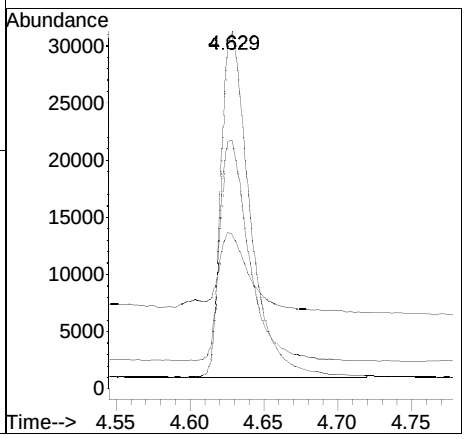




#2
1,4-dioxane
Concen: 585.51 ng/mL M4
RT: 4.629 min Scan# 197
Delta R.T. 0.058 min
Lab File: F1608221905.d
Acq: 22 Aug 2019 8:06 pm

Tgt Ion: 88 Resp: 41025

Ion	Ratio	Lower	Upper
88	100		
58	63.5	57.3	85.9
43	21.3	18.3	27.5

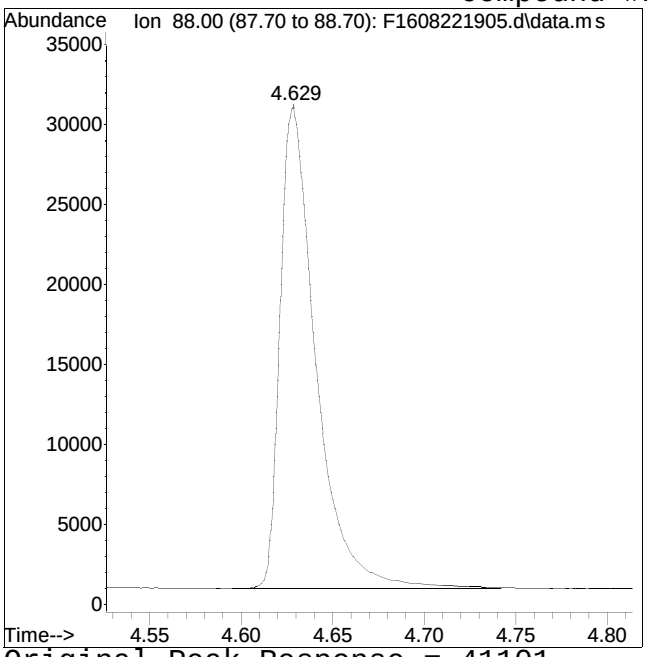


Manual Integration/Negative Proof Report

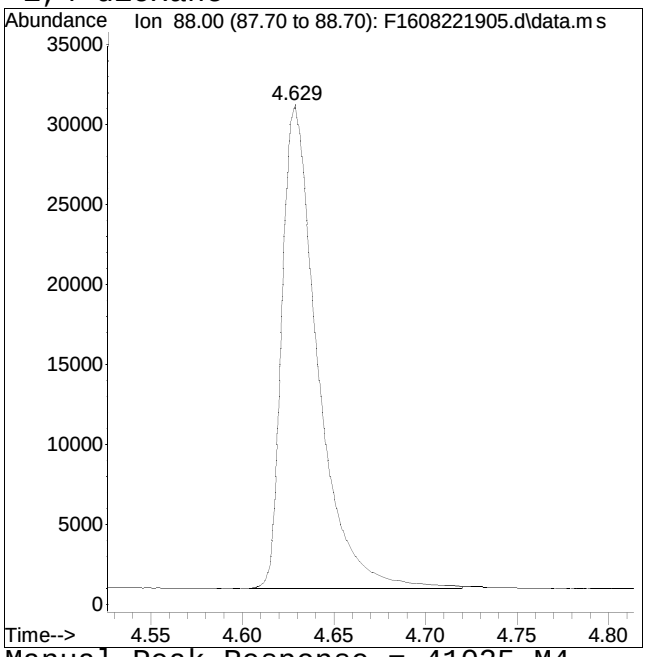
Data Path : O:\Organics\DATA\PAH16\2019Q
Data File : F1608221905.d
Date Inj'd : 8/22/2019 8:06 pm
Sample : WG1274634-3

Method : 14DIOX0821PAH16.M
Operator : PAH16:MA
Instrument : PAH16
Quant Date : 8/23/2019 8:49 am

Compound #2: 1,4-dioxane



Original Peak Response = 41101



Manual Peak Response = 41025 M4

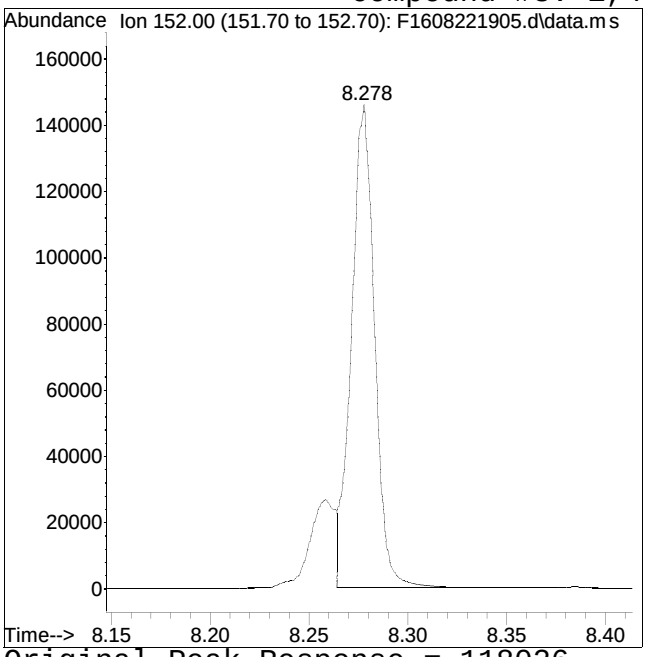
M4 = Poor automated baseline construction.

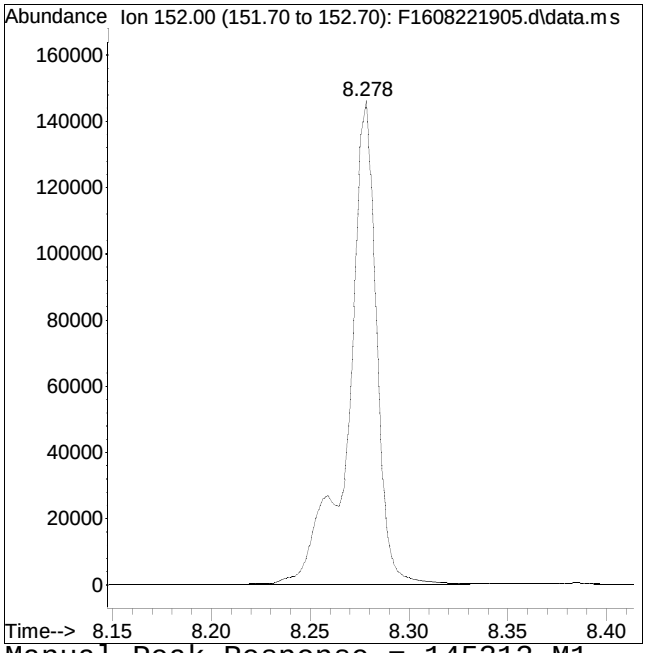
Manual Integration/Negative Proof Report

Data Path : O:\Organics\DATA\PAH16\2019Q
Data File : F1608221905.d
Date Inj'd : 8/22/2019 8:06 pm
Sample : WG1274634-3

Method : 14DIOX0821PAH16.M
Operator : PAH16:MA
Instrument : PAH16
Quant Date : 8/23/2019 8:49 am

Compound #3: 1,4-Dichlorobenzene-d4





Original Peak Response = 118026 Manual Peak Response = 145313 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG22\
Data File : F1608221912.d
Acq On : 22 Aug 2019 10:53 pm
Operator : PAH16:MA
Sample : WG1274634-4
Misc : WG1275695,WG1274634,ICAL16062
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 23 11:04:11 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG22\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Aug 23 08:35:44 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.612	64	24181	500.000	ng/mL	0.09
3) 1,4-Dichlorobenzene-d4	8.278	152	136788	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.612	64	24181	203.212	ng/mL	0.09
Spiked Amount 500.000	Range 15 - 115		Recovery = 40.64%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.659	88	40258M4	582.590	ng/mL	

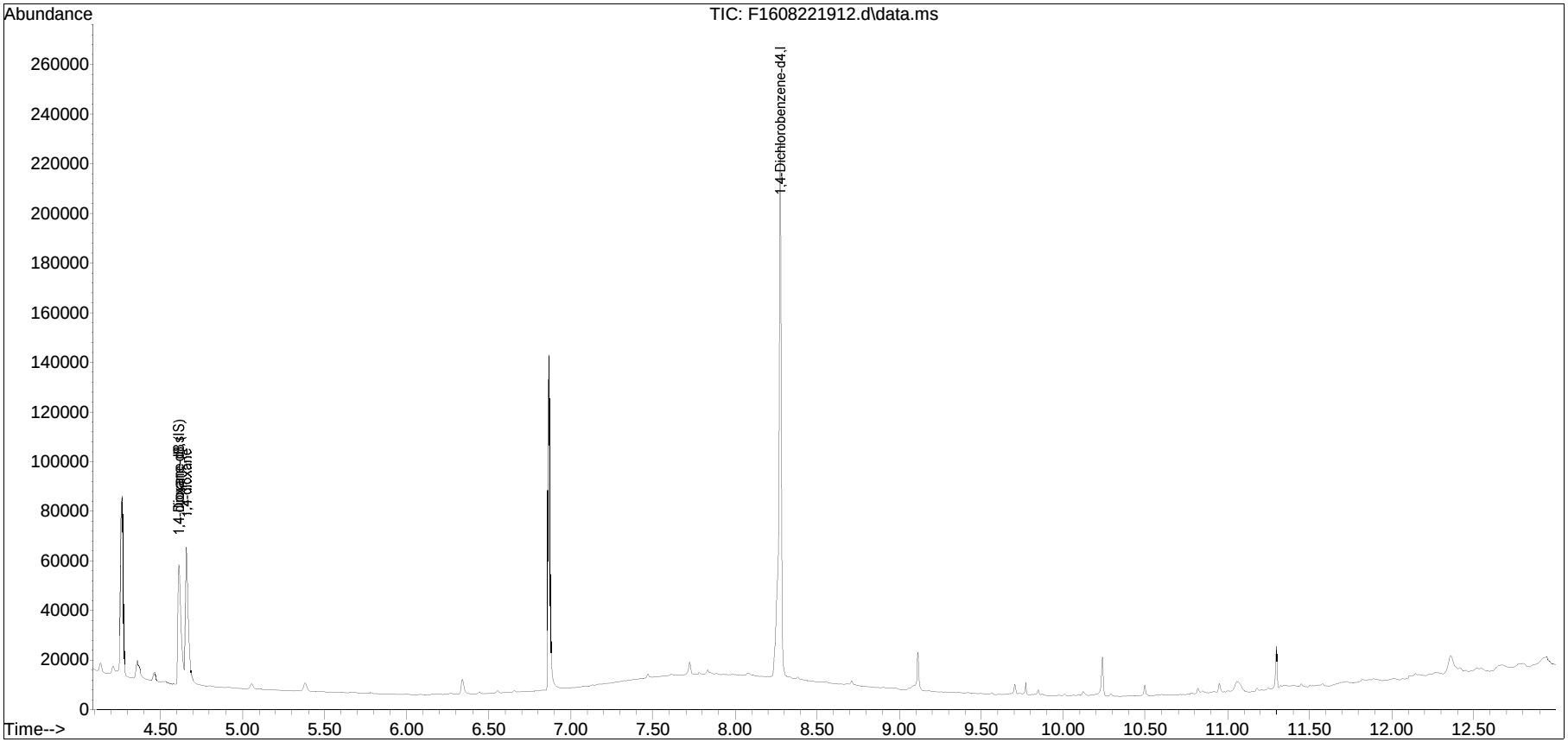
(#) = qualifier out of range (m) = manual integration (+) = signals summed

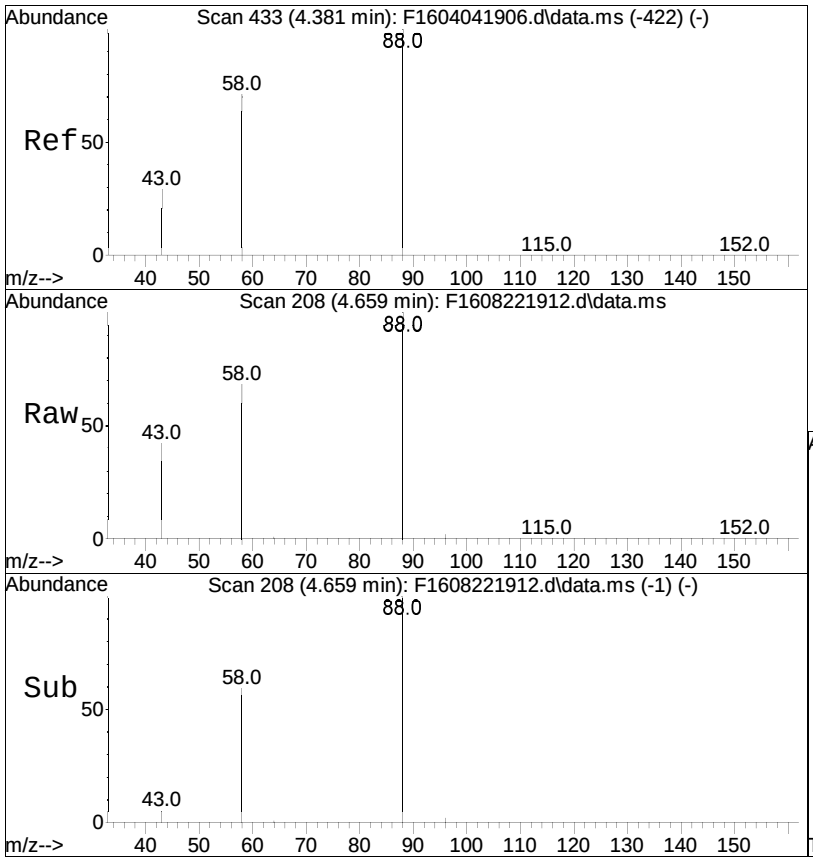
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG22\
Data File : F1608221912.d
Acq On : 22 Aug 2019 10:53 pm
Operator : PAH16:MA
Sample : WG1274634-4
Misc : WG1275695,WG1274634,ICAL16062
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 23 11:04:11 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG22\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Aug 23 08:35:44 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

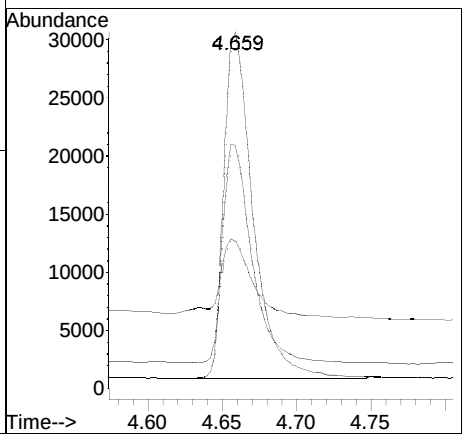




#2
1,4-dioxane
Concen: 582.59 ng/mL M4
RT: 4.659 min Scan# 208
Delta R.T. 0.089 min
Lab File: F1608221912.d
Acq: 22 Aug 2019 10:53 pm

Tgt Ion: 88 Resp: 40258

Ion	Ratio	Lower	Upper
88	100		
58	63.0	57.3	85.9
43	22.8	18.3	27.5

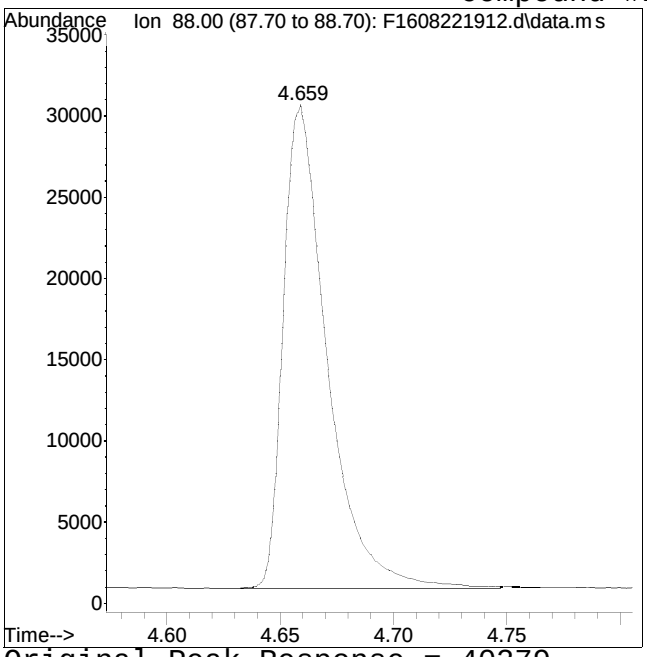


Manual Integration/Negative Proof Report

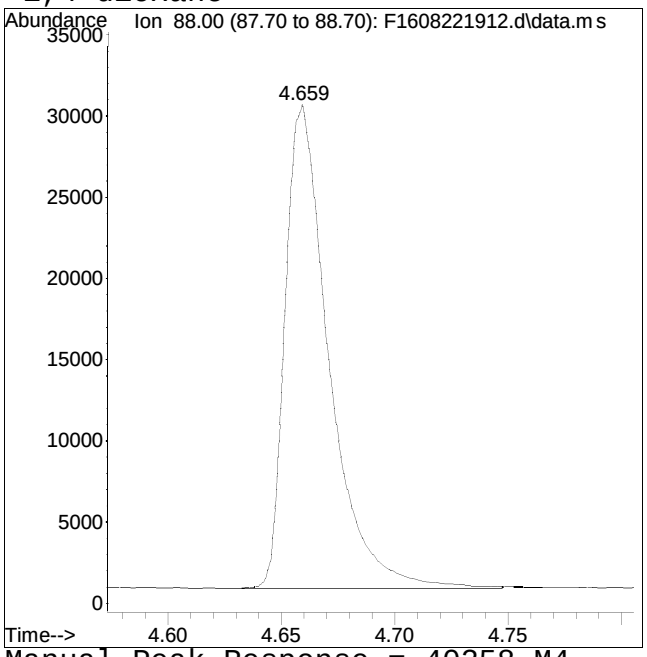
Data Path : O:\Organics\DATA\PAH16\2019Q
Data File : F1608221912.d
Date Inj'd : 8/22/2019 10:53 pm
Sample : WG1274634-4

Method : 14DIOX0821PAH16.M
Operator : PAH16:MA
Instrument : PAH16
Quant Date : 8/23/2019 8:50 am

Compound #2: 1,4-dioxane



Original Peak Response = 40279



Manual Peak Response = 40258 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG22\
Data File : F1608221913.d
Acq On : 22 Aug 2019 11:15 pm
Operator : PAH16:MA
Sample : WG1274634-5
Misc : WG1275695,WG1274634,ICAL16062
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 23 11:04:25 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG22\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Aug 23 08:35:44 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.615	64	25628	500.000	ng/mL	0.09
3) 1,4-Dichlorobenzene-d4	8.278	152	138945M1	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.615	64	25628	212.029	ng/mL	0.09
Spiked Amount 500.000	Range 15 - 115		Recovery = 42.41%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.662	88	42847	585.048	ng/mL	91

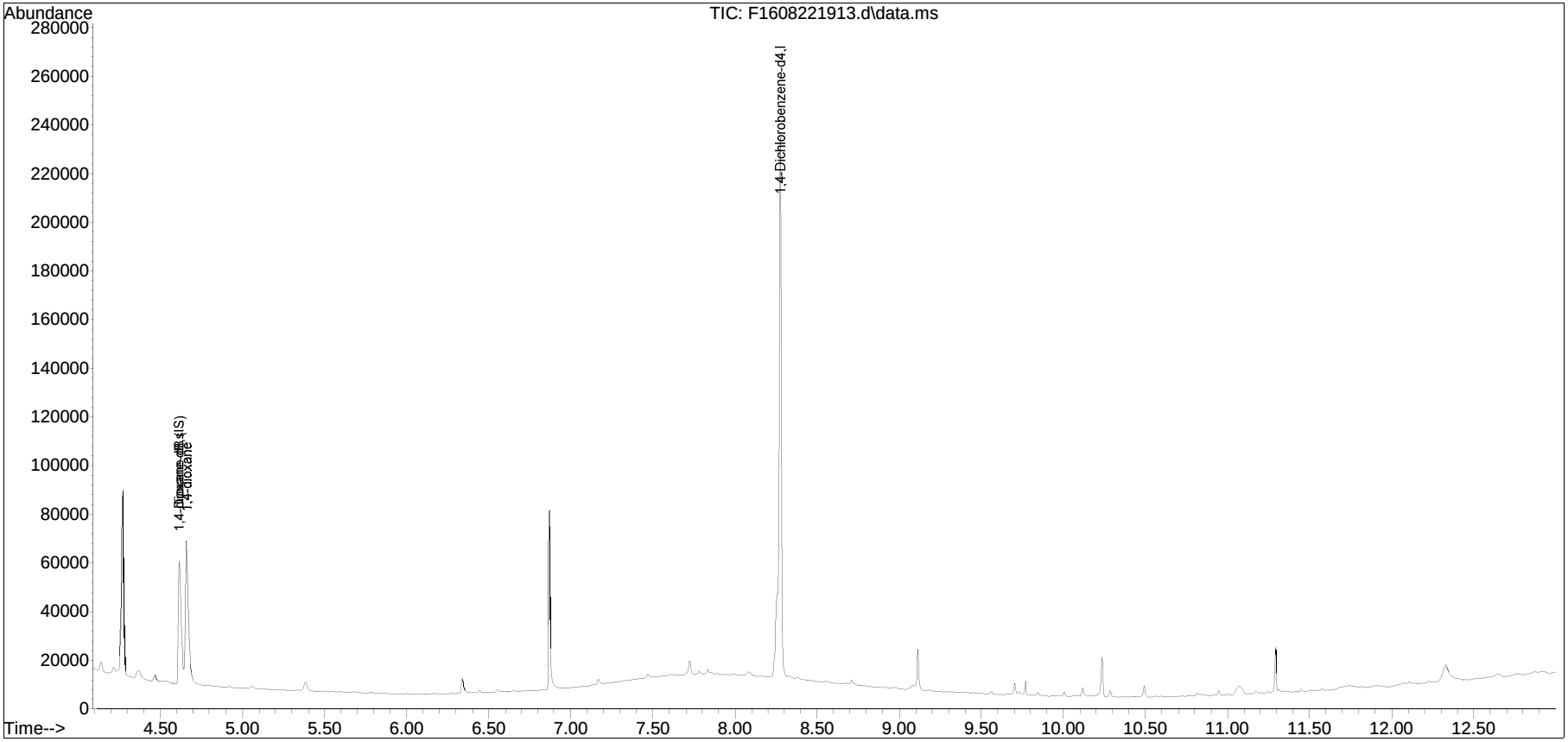
(#) = qualifier out of range (m) = manual integration (+) = signals summed

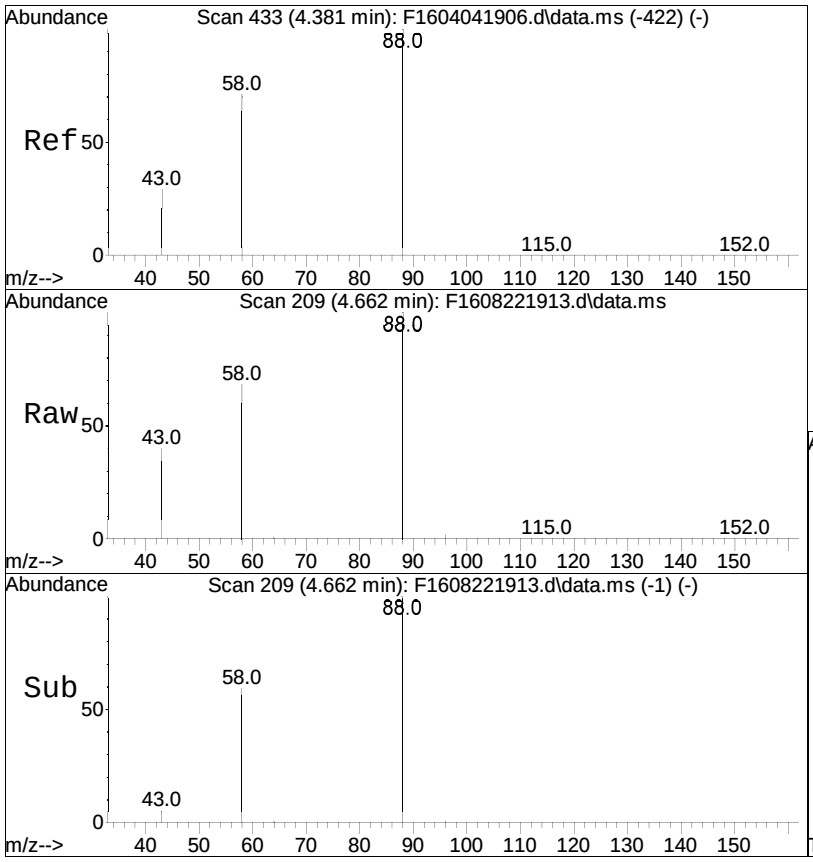
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\PAH16\2019\AUG\AUG22\
Data File : F1608221913.d
Acq On : 22 Aug 2019 11:15 pm
Operator : PAH16:MA
Sample : WG1274634-5
Misc : WG1275695,WG1274634,ICAL16062
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 23 11:04:25 2019
Quant Method : O:\Organics\DATA\PAH16\2019\AUG\AUG22\14DIOX0821PAH16.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Fri Aug 23 08:35:44 2019
Response via : Initial Calibration

Sub List : Default - All compounds listed

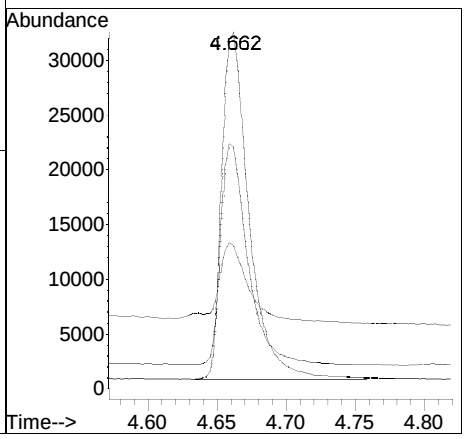




#2
1,4-dioxane
Concen: 585.05 ng/mL
RT: 4.662 min Scan# 209
Delta R.T. 0.091 min
Lab File: F1608221913.d
Acq: 22 Aug 2019 11:15 pm

Tgt Ion: 88 Resp: 42847

Ion	Ratio	Lower	Upper
88	100		
58	62.8	57.3	85.9
43	21.1	18.3	27.5

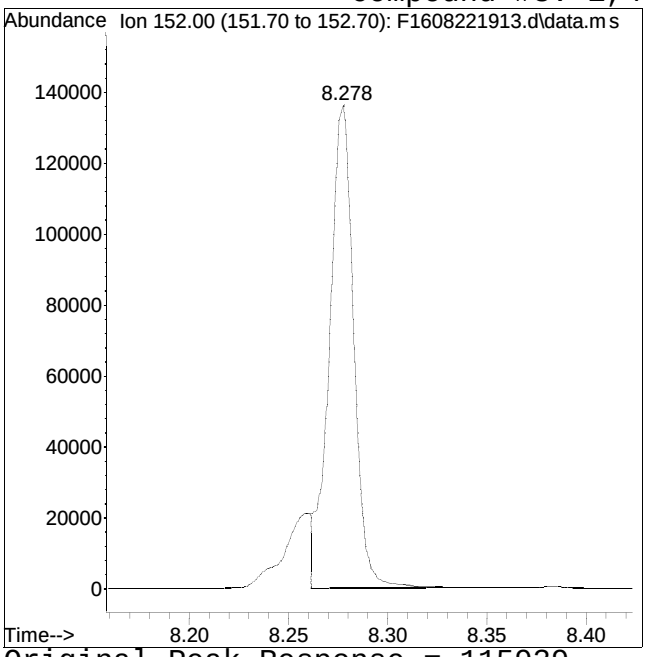


Manual Integration/Negative Proof Report

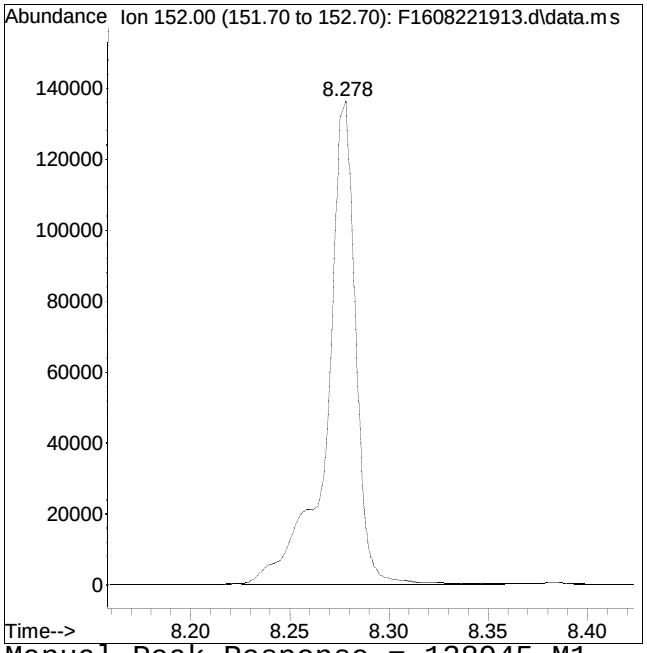
Data Path : O:\Organics\DATA\PAH16\2019Q
Data File : F1608221913.d
Date Inj'd : 8/22/2019 11:15 pm
Sample : WG1274634-5

Method : 14DIOX0821PAH16.M
Operator : PAH16:MA
Instrument : PAH16
Quant Date : 8/23/2019 8:50 am

Compound #3: 1,4-Dichlorobenzene-d4



Original Peak Response = 115939



Manual Peak Response = 138945 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Calculation of Semi Volatile Organic Compounds

Results of Water Analysis- calculation as performed in report form:

$$\text{Concentration (ug/L)} = \frac{(\text{Conc})\ (\text{Vf})\ (\text{DF})}{(\text{Vi})} \times 1000$$

where:
Conc =Raw on-column concentration obtained from the quantitation report using Initial Calibration results.
Vf = Final volume of extract (mL)
Vi= Volume of sample extracted (mL)
DF= Dilution factor

Results of Sediment/Soil Analysis- calculation as performed in report form:

$$\text{Concentration (ug/Kg)} = \frac{(\text{Conc})\ (\text{Vf})\ (\text{DF})}{(\text{W})\ (\%\text{S})}$$

where:
Conc =Raw on-column concentration obtained from the quantitation report using Initial Calibration results.
Vf = Final volume of extract (mL)
W= Aliquot of sample (wet), g
DF= Dilution factor
%S= Sample %solid (in decimal form)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Aug 23 2019, 02:46 pm

Work Group: WG1275695 for Department: 32 GC/MS - Semivolatiles

Created: 22-AUG-19 Due: Operator: PAH16 MA

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1936136-12	SW-001	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0821	0827	S0	Amber-A.25
L1936136-13	SW-001 (DUPLICATE)	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0821	0827	S0	Amber-A.25
L1936136-16	RB3 (081419)	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0821	0827	S0	Amber-A.25
L1936222-01	EFFLUENT	S	A2-MCP-14DX-SIM-PPB	WATER	DONE	U	0820	0823	S0	Amber-A.25
L1936350-01	INFLUENT-081319	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0820	0829	S0	Amber-A.25
L1936350-02	EFFLUENT-081319	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0820	0829	S0	Amber-A.25
L1936410-01	MW-8S	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0820	0823	S0	Amber-A.25
L1936410-02	MW-9S	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0820	0823	S0	Amber-A.25
L1936410-03	MW-6S	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0820	0823	S0	Amber-A.25
L1936410-04	FB-081319	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0820	0823	S0	Amber-A.25
L1936410-06	DUP-081319	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0820	0823	S0	Amber-A.25
L1936464-01	SW-1-U	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0820	0827	S0	Amber-A.25
L1936464-02	SW-2-C	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0820	0827	S0	Amber-A.25
L1936464-03	SW-3-D	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0820	0827	S0	Amber-A.25
L1936464-04	LEACHATE-1	C	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0820	0827	S0	Amber-A.25
L1936464-05	DUP-1	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0820	0827	S0	Amber-A.25
L1936464-08	340-NA-PW	C	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0820	0827	S0	Amber-A.25
L1936464-10	321-NA-PW	C	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0820	0827	S0	Amber-A.25
L1936495-01	POST STRIPPER	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0821	0828	S0	Amber-A.25
L1936495-02	CARBON MID POINT	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0821	0828	S0	Amber-A.25
L1936775-21	SADP-3-081419-17	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0821	0829	S0	Amber-A.25
L1936775-22	SADP-3-081419-23	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0821	0829	S0	Amber-A.25
L1936792-01	MW-U-1	C	A2-1,4-DIOXANE-SIM	WATER	SEC	U	0822	0827	S0	Amber-A.25
L1936792-02	MW-D-1	C	A2-1,4-DIOXANE-SIM	WATER	SEC	U	0822	0827	S0	Amber-A.25
L1936792-03	MW-D-2	C	A2-1,4-DIOXANE-SIM	WATER	SEC	U	0822	0827	S0	Amber-A.25
L1936792-04	MW-D-3	C	A2-1,4-DIOXANE-SIM	WATER	SEC	U	0822	0827	S0	Amber-A.25
L1936969-17	SBFB01_20190815	S	A2-1,4-DIOXANE-SIM	WATER	SEC	U	0822	0829	S0	Amber-A.25
L1937087-01	MW-1	C	A2-1,4-DIOXANE-SIM	WATER	DACQ	U	0823	0828	S0	Amber-A.25
L1937087-02	MW-2	C	A2-1,4-DIOXANE-SIM	WATER	DACQ	U	0823	0828	S0	Amber-A.25
L1937087-03	MW-3	C	A2-1,4-DIOXANE-SIM	WATER	DACQ	U	0823	0828	S0	Amber-A.25
L1937087-04	MW-5S	C	A2-1,4-DIOXANE-SIM	WATER	DACQ	U	0823	0828	S0	Amber-A.25
L1937087-05	MW-5D	C	A2-1,4-DIOXANE-SIM	WATER	DACQ	U	0823	0828	S0	Amber-A.25
L1937087-06	MW-5BR	C	A2-1,4-DIOXANE-SIM	WATER	DACQ	U	0823	0828	S0	Amber-A.25
L1937087-07	MW-6	C	A2-1,4-DIOXANE-SIM	WATER	DACQ	U	0823	0828	S0	Amber-A.25
L1937087-08	DUPLICATE	C	A2-1,4-DIOXANE-SIM	WATER	DACQ	U	0823	0828	S0	Amber-A.25
L1937087-09	SW-1	C	A2-1,4-DIOXANE-SIM	WATER	DACQ	U	0823	0828	S0	Amber-A.25
L1937087-10	SW-2	C	A2-1,4-DIOXANE-SIM	WATER	DACQ	U	0823	0828	S0	Amber-A.25
L1937087-11	SW-5	C	A2-1,4-DIOXANE-SIM	WATER	DACQ	U	0823	0828	S0	Amber-A.25
L1937091-01	TW-1	C	A2-1,4-DIOXANE-SIM	WATER	SEC	U	0823	0830	S0	Amber-A.25
L1937143-01	MW-102	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0822	0823	S0	Amber-A.25
L1937143-03	MW-103	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0822	0823	S0	Amber-A.25
L1937143-04	MW-104	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0822	0823	S0	Amber-A.25
L1937143-05	FIELD BLANK	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0822	0823	S0	Amber-A.25
L1937217-01	20190816W-39-11V10N	S	A2-14-DIOXANESIM-PPB	WATER	SEC	U	0823	0822	S0	Amber-A.25
L1937217-03	20190816FD	S	A2-14-DIOXANESIM-PPB	WATER	SEC	U	0823	0822	S0	Amber-A.25
L1937217-05	20190816W-39-11V12N	S	A2-14-DIOXANESIM-PPB	WATER	SEC	U	0823	0822	S0	Amber-A.25
L1937217-07	20190816W-40-13V11N	S	A2-14-DIOXANESIM-PPB	WATER	DACQ	U	0823	0822	S0	Amber-A.25
L1937217-10	20190816W-43-13V11N	S	A2-14-DIOXANESIM-PPB	WATER	DACQ	U	0823	0822	S0	Amber-A.25
L1937217-12	20190816EB	S	A2-14-DIOXANESIM-PPB	WATER	DACQ	U	0823	0822	S0	Amber-A.25
WG1274634-1	Laboratory Method Bl	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1274634-2	Laboratory Control S	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1274634-3	LCS Duplicate	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1274634-4	Matrix Spike	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1274634-5	Matrix Spike Duplica	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1274636-1	Laboratory Method Bl	S	A2-MCP-14DX-SIM-PPB	WATER	DONE	U				
WG1274636-2	Laboratory Control S	S	A2-MCP-14DX-SIM-PPB	WATER	DONE	U				
WG1274636-3	LCS Duplicate	S	A2-MCP-14DX-SIM-PPB	WATER	DONE	U				
WG1275072-4	Matrix Spike	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1275072-5	Matrix Spike Duplica	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1275148-1	Laboratory Method Bl	S	A2-1,4-DIOXANE-SIM	WATER	SEC	U				
WG1275148-2	Laboratory Control S	S	A2-1,4-DIOXANE-SIM	WATER	SEC	U				
WG1275148-3	LCS Duplicate	S	A2-1,4-DIOXANE-SIM	WATER	SEC	U				

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Aug 23 2019, 02:46 pm

Work Group: WG1275695 for Department: 32 GC/MS - Semivolatiles

Created: 22-AUG-19 Due: Operator: PAH16 MA

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
WG1275152-1	Laboratory Method Bl	S	A2-14-DIOXANESIM-PPB	WATER	SEC	U				
WG1275152-2	Laboratory Control S	S	A2-14-DIOXANESIM-PPB	WATER	SEC	U				
WG1275152-3	LCS Duplicate	S	A2-14-DIOXANESIM-PPB	WATER	SEC	U				
WG1275152-4	Matrix Spike	S	A2-14-DIOXANESIM-PPB	WATER	SEC	U				
WG1275152-5	Matrix Spike Duplica	S	A2-14-DIOXANESIM-PPB	WATER	SEC	U				
WG1275695-1	MS DFTPP Tune Standa	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1275695-1	MS DFTPP Tune Standa	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1275695-1	MS DFTPP Tune Standa	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1275695-1	MS DFTPP Tune Standa	S	A2-MCP-14DX-SIM-PPB	WATER	DONE	U				
WG1275695-2	Continuing Calibrati	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1275695-2	Continuing Calibrati	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1275695-2	Continuing Calibrati	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1275695-2	Continuing Calibrati	S	A2-MCP-14DX-SIM-PPB	WATER	DONE	U				
WG1275695-3	MS DFTPP Tune Standa	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1275695-3	MS DFTPP Tune Standa	S	A2-MCP-14DX-SIM-PPB	WATER	DONE	U				
WG1275695-3	MS DFTPP Tune Standa	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1275695-3	MS DFTPP Tune Standa	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1275695-4	Continuing Calibrati	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1275695-4	Continuing Calibrati	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1275695-4	Continuing Calibrati	S	A2-MCP-14DX-SIM-PPB	WATER	DONE	U				
WG1275695-4	Continuing Calibrati	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				

Comments:

WG1274634-3	WG1274634-2
WG1274634-4	L1936410-03
WG1274634-5	L1936410-03
WG1274636-3	WG1274636-2
WG1275072-4	L1936136-12
WG1275072-5	L1936136-12
WG1275148-3	WG1275148-2
WG1275152-3	WG1275152-2
WG1275152-4	L1937217-01
WG1275152-5	L1937217-01

Analysis log File

Total Files Reported in Log : 52
Log Generated From Directory: O:\Organics\DATA\PAH16\2019\AUG\AUG22\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	F1608221901.d	DFTPP_PAH16.	WG1275695-1	WG1275695,,ICAL16062,MS..	8/22/2019 6:02 pm
2	F1608221902.d	14DIOXANEPAH	WG1275695-2	WG1275695,,ICAL16062,MS..	8/22/2019 6:49 pm
3	F1608221903.d	14DIOXANEPAH	WG1274636-1	WG1275695,WG1274636,ICA..	8/22/2019 7:16 pm
4	F1608221904.d	14DIOXANEPAH	WG1274636-2	WG1275695,WG1274636,ICA..	8/22/2019 7:41 pm
5	F1608221905.d	14DIOXANEPAH	WG1274636-3	WG1275695,WG1274636,ICA..	8/22/2019 8:06 pm
6	F1608221906.d	14DIOXANEPAH	L1936222-01	WG1275695,WG1274636,ICA..	8/22/2019 8:32 pm
7	F1608221907.d	14DIOXANEPAH	L1936350-01	WG1275695,WG1274634,ICA..	8/22/2019 8:56 pm
8	F1608221908.d	14DIOXANEPAH	L1936350-02	WG1275695,WG1274634,ICA..	8/22/2019 9:19 pm
9	F1608221909.d	14DIOXANEPAH	L1936410-01	WG1275695,WG1274634,ICA..	8/22/2019 9:43 pm
10	F1608221910.d	14DIOXANEPAH	L1936410-02	WG1275695,WG1274634,ICA..	8/22/2019 10:07 pm
11	F1608221911.d	14DIOXANEPAH	L1936410-03	WG1275695,WG1274634,ICA..	8/22/2019 10:30 pm
12	F1608221912.d	14DIOXANEPAH	WG1274634-4	WG1275695,WG1274634,ICA..	8/22/2019 10:53 pm
13	F1608221913.d	14DIOXANEPAH	WG1274634-5	WG1275695,WG1274634,ICA..	8/22/2019 11:15 pm
14	F1608221914.d	14DIOXANEPAH	L1936410-04	WG1275695,WG1274634,ICA..	8/22/2019 11:38 pm
15	F1608221915.d	14DIOXANEPAH	L1936410-06	WG1275695,WG1274634,ICA..	8/23/2019 12:00 am
16	F1608221916.d	14DIOXANEPAH	L1936464-01	WG1275695,WG1274634,ICA..	8/23/2019 12:23 am
17	F1608221917.d	14DIOXANEPAH	L1936464-02	WG1275695,WG1274634,ICA..	8/23/2019 12:45 am
18	F1608221918.d	14DIOXANEPAH	L1936464-03	WG1275695,WG1274634,ICA..	8/23/2019 1:07 am
19	F1608221919.d	14DIOXANEPAH	L1936464-04D,32,4	WG1275695,WG1274634,ICA..	8/23/2019 1:29 am
20	F1608221920.d	14DIOXANEPAH	L1936464-05	WG1275695,WG1274634,ICA..	8/23/2019 1:50 am
21	F1608221921.d	14DIOXANEPAH	L1936464-08	WG1275695,WG1274634,ICA..	8/23/2019 2:12 am
22	F1608221922.d	14DIOXANEPAH	L1936464-10	WG1275695,WG1274634,ICA..	8/23/2019 2:33 am
23	F1608221923.d	14DIOXANEPAH	L1936495-01	WG1275695,WG1275070,ICA..	8/23/2019 2:55 am
24	F1608221924.d	14DIOXANEPAH	L1936495-02	WG1275695,WG1275070,ICA..	8/23/2019 3:15 am
25	F1608221925.d	14DIOXANEPAH	L1936775-21	WG1275695,WG1275070,ICA..	8/23/2019 3:35 am
26	F1608221926.d	14DIOXANEPAH	L1936775-22	WG1275695,WG1275070,ICA..	8/23/2019 3:56 am
27	F1608221927.d	14DIOXANEPAH	L1937143-01	WG1275695,WG1275070,ICA..	8/23/2019 4:16 am
28	F1608221928.d	14DIOXANEPAH	L1937143-03	WG1275695,WG1275070,ICA..	8/23/2019 4:36 am
29	F1608221929.d	14DIOXANEPAH	L1937143-04	WG1275695,WG1275070,ICA..	8/23/2019 4:56 am
30	F1608221930.d	14DIOXANEPAH	L1937143-05	WG1275695,WG1275070,ICA..	8/23/2019 5:16 am
31	F1608221931.d	DFTPP_PAH16.	WG1275695-3	WG1275695,,ICAL16062,MS..	8/23/2019 5:36 am
32	F1608221932.d	14DIOXANEPAH	WG1275695-4	WG1275695,,ICAL16062,MS..	8/23/2019 6:08 am
33	F1608221933.d	14DIOXANEPAH	L1936136-12	WG1275695,WG1275072,ICA..	8/23/2019 6:29 am
34	F1608221934.d	14DIOXANEPAH	WG1275072-4	WG1275695,WG1275072,ICA..	8/23/2019 6:49 am
35	F1608221935.d	14DIOXANEPAH	WG1275072-5	WG1275695,WG1275072,ICA..	8/23/2019 7:09 am
36	F1608221936.d	14DIOXANEPAH	L1936136-13	WG1275695,WG1275072,ICA..	8/23/2019 7:29 am
37	F1608221937.d	14DIOXANEPAH	L1936136-16	WG1275695,WG1275072,ICA..	8/23/2019 7:49 am
38	F1608221938.d	14DIOXANEPAH	L1936792-01	WG1275695,WG1275072,ICA..	8/23/2019 8:09 am
39	F1608221939.d	14DIOXANEPAH	L1936792-02	WG1275695,WG1275072,ICA..	8/23/2019 8:29 am
40	F1608221940.d	14DIOXANEPAH	L1936792-03	WG1275695,WG1275072,ICA..	8/23/2019 8:49 am
41	F1608221941.d	14DIOXANEPAH	L1936792-04	WG1275695,WG1275072,ICA..	8/23/2019 9:09 am
42	F1608221942.d	14DIOXANEPAH	L1937091-01	WG1275695,WG1275072,ICA..	8/23/2019 9:29 am
43	F1608221943.d	14DIOXANEPAH	L1936969-17	WG1275695,WG1275072,ICA..	8/23/2019 9:49 am
44	F1608221944.d	14DIOXANEPAH	WG1275152-1	WG1275695,WG1275152,ICA..	8/23/2019 10:09 am
45	F1608221945.d	14DIOXANEPAH	WG1275152-2	WG1275695,WG1275152,ICA..	8/23/2019 10:29 am
46	F1608221946.d	14DIOXANEPAH	WG1275152-3	WG1275695,WG1275152,ICA..	8/23/2019 10:49 am
47	F1608221947.d	14DIOXANEPAH	L1937217-01	WG1275695,WG1275152,ICA..	8/23/2019 11:09 am
48	F1608221948.d	14DIOXANEPAH	WG1275152-4	WG1275695,WG1275152,ICA..	8/23/2019 11:30 am
49	F1608221949.d	14DIOXANEPAH	WG1275152-5	WG1275695,WG1275152,ICA..	8/23/2019 11:50 am
50	F1608221950.d	14DIOXANEPAH	L1937217-03	WG1275695,WG1275152,ICA..	8/23/2019 12:10 pm
51	F1608221951.d	14DIOXANEPAH	L1937217-05	WG1275695,WG1275152,ICA..	8/23/2019 12:30 pm
52	F1608221952.d	14DIOXANEPAH	L1937217-07		8/23/2019 12:51 pm

SeqLog 1.0 - (c) 2009 Abacus Database Applications

ORGANIC ELN REPORT

Workgroup: WG1274634

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** DW759-US
Surrogate Type: 1,4-DIOXANE **Lot #:** MSBA84
Spike Type: 1,4-DIOXANE **Lot #:** MSBA85
Spike Verify by: EDM
Lims Spikelot: 14DIOXANE

Additional Reagents/Stds

Glass Wool	19218999
Na2SO4	000226178

Conc.Method: S-EVAP/N-EVAP
Solvent Type: DCM
Lot #: DW759-US

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L1936350-01 WATER	08/20/19 17:11	Elias Mcdonnell	260	7	0.250		08/20/19 23:00	Dayana Berdugo	2.5	SEVAP 1A/NE VAP2
L1936350-02 WATER	08/20/19 17:11	Elias Mcdonnell	260	8	0.250		08/20/19 23:00	Dayana Berdugo	2.5	SEVAP 1A/NE VAP2
L1936410-01 WATER	08/20/19 17:11	Elias Mcdonnell	260	7	0.250		08/20/19 23:00	Dayana Berdugo	2.5	SEVAP 1A/NE VAP2
L1936410-02 WATER	08/20/19 17:11	Elias Mcdonnell	260	7	0.250		08/20/19 23:00	Dayana Berdugo	2.5	SEVAP 1A/NE VAP2
L1936410-03 WATER	08/20/19 17:11	Elias Mcdonnell	260	7	0.250		08/20/19 23:00	Dayana Berdugo	2.5	SEVAP 1A/NE VAP2
L1936410-04 WATER	08/20/19 17:11	Elias Mcdonnell	260	7	0.250		08/20/19 23:00	Dayana Berdugo	2.5	SEVAP 1A/NE VAP2

Reported: 23-AUG-19 02:46 PM

ORGANIC ELN REPORT

Workgroup: WG1274634

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L1936410-06 WATER	08/20/19 17:11	Elias Mcdonnell	250	7	0.250		08/20/19 23:00	Dayana Berdugo	2.5	SEVAP 1A/NE VAP2
L1936464-01 WATER	08/20/19 17:11	Elias Mcdonnell	270	7	0.250		08/20/19 23:00	Dayana Berdugo	2.5	SEVAP 1A/NE VAP2
L1936464-02 WATER	08/20/19 17:11	Elias Mcdonnell	270	7	0.250		08/20/19 23:00	Dayana Berdugo	2.5	SEVAP 1A/NE VAP2
L1936464-03 WATER	08/20/19 17:11	Elias Mcdonnell	270	7	0.250		08/20/19 23:00	Dayana Berdugo	2.5	SEVAP 1A/NE VAP2
L1936464-04 WATER	08/20/19 17:11	Elias Mcdonnell	260	7	0.250		08/20/19 23:00	Dayana Berdugo	2.5	SEVAP 1A/NE VAP2
	MEDIUM-THICK EMULSION EDM 8/20/2019									
L1936464-05 WATER	08/20/19 17:11	Elias Mcdonnell	270	8	0.250		08/20/19 23:00	Dayana Berdugo	2.5	SEVAP 1A/NE VAP2
L1936464-08 WATER	08/20/19 17:11	Elias Mcdonnell	270	8	0.250		08/20/19 23:00	Dayana Berdugo	2.5	SEVAP 1A/NE VAP2
L1936464-10 WATER	08/20/19 17:11	Elias Mcdonnell	260	7	0.250		08/20/19 23:00	Dayana Berdugo	2.5	SEVAP 1A/NE VAP2

Reported: 23-AUG-19 02:46 PM

ORGANIC ELN REPORT

Workgroup: WG1274634

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG1274634-1 BLANK	08/20/19 17:11	Elias Mcdonnell	250	7	0.250		08/20/19 23:00	Dayana Berdugo	2.5	SEVAP 1A/NE VAP2
	SHARES QCs w/WG1274636									
WG1274634-2 LCS	08/20/19 17:11	Elias Mcdonnell	250	7	0.250	0.250	08/20/19 23:00	Dayana Berdugo	2.5	SEVAP 1A/NE VAP2
							SMALL AMOUNT OF SAMPLE LOST WHILE BREAKING DOWN GLASSWARE. DMB 8/20/19			
WG1274634-3 LCSD	08/20/19 17:11	Elias Mcdonnell	250	7	0.250	0.250	08/20/19 23:00	Dayana Berdugo	2.5	SEVAP 1A/NE VAP2
WG1274634-4 MS	08/20/19 17:11	Elias Mcdonnell	260	7	0.250	0.250	08/20/19 23:00	Dayana Berdugo	2.5	SEVAP 1A/NE VAP2
WG1274634-5 MSD	08/20/19 17:11	Elias Mcdonnell	260	7	0.250	0.250	08/20/19 23:00	Dayana Berdugo	2.5	SEVAP 1A/NE VAP2

PFAAs

Semivolatiles QC Summary

Surrogate (Extracted Internal Standard) Recovery Summary
Form 2
Semivolatiles

Client: Arcadis of New York, Inc.
Project Name: MADISON AVE MGP SITE-EC SAMP

Lab Number: L1936410
Project Number: 30030318
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 ()	S2 ()	S3 ()	S4 ()	S5 ()	S6 ()	S7 ()
MW-8S (L1936410-01)	102	74	78	59	74	84	100
MW-9S (L1936410-02)	95	118	96	79	81	102	96
MW-6S (L1936410-03)	93	125	92	82	85	96	93
FB-081319 (L1936410-04)	88	113	96	86	88	99	93
TB-081319 (L1936410-05)	80	101	89	74	76	93	79
DUP-081319 (L1936410-06)	86	111	91	72	74	93	88
WG1274916-1BLANK	101	120	91	95	94	97	101
WG1274916-2LCS	92	110	82	87	86	84	89
WG1274916-3LCSD	97	115	90	93	92	96	98
MW-6SMS	96	131	100	84	87	102	95
MW-6SMSD	100	135	99	90	90	100	100

QC LIMITS

(2-156) S1 = PERFLUORO[13C4]BUTANOIC ACID (MPFBA)
(16-173) S2 = PERFLUORO[13C5]PENTANOIC ACID (M5PFPEA)
(31-159) S3 = PERFLUORO[2,3,4-13C3]BUTANESULFONIC ACID (M3PFBS)
(21-145) S4 = PERFLUORO[1,2,3,4,6-13C5]HEXANOIC ACID (M5PFHXA)
(30-139) S5 = PERFLUORO[1,2,3,4-13C4]HEPTANOIC ACID (M4PFHPA)
(47-153) S6 = PERFLUORO[1,2,3-13C3]HEXANESULFONIC ACID (M3PFHXS)
(47-153) S7 = PERFLUORO[13C8]OCTANOIC ACID (M8PFOA)

*** Values outside of QC limits**

Surrogate (Extracted Internal Standard) Recovery Summary
Form 2
Semivolatiles

Client: Arcadis of New York, Inc.
Project Name: MADISON AVE MGP SITE-EC SAMP

Lab Number: L1936410
Project Number: 30030318
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S8 ()	S9 ()	S10 ()	S11 ()	S12 ()	S13 ()	S14 ()
MW-8S (L1936410-01)	230	122	104	95	270*	103	110
MW-9S (L1936410-02)	83	99	102	87	57	51	80
MW-6S (L1936410-03)	58	93	91	84	39	58	80
FB-081319 (L1936410-04)	41	97	97	87	44	69	86
TB-081319 (L1936410-05)	35	82	94	73	40	58	71
DUP-081319 (L1936410-06)	67	89	97	82	48	52	75
WG1274916-1BLANK	41	111	108	98	49	81	95
WG1274916-2LCS	40	99	93	86	46	70	86
WG1274916-3LCSD	42	108	107	95	50	72	97
MW-6SMS	56	98	102	90	45	57	85
MW-6SMSD	64	100	98	93	47	68	86

QC LIMITS

(1-244) S8 = 1H,1H,2H,2H-PERFLUORO[1,2-13C2]OCTANESULFONIC ACID (M2-6:2FTS)
(34-146) S9 = PERFLUORO[13C9]NONANOIC ACID (M9PFNA)
(42-146) S10 = PERFLUORO[13C8]OCTANESULFONIC ACID (M8PFOS)
(38-144) S11 = PERFLUORO[1,2,3,4,5,6-13C6]DECANOIC ACID (M6PFDA)
(7-170) S12 = 1H,1H,2H,2H-PERFLUORO[1,2-13C2]DECANESULFONIC ACID (M2-8:2FTS)
(1-181) S13 = N-DEUTERIOMETHYLPERFLUORO-1-OCTANESULFONAMIDOACETIC ACID (D3-NMEFOSAA)
(1-181) S14 = PERFLUORO[1,2,3,4,5,6,7-13C7]UNDECANOIC ACID (M7-PFUDA)

*** Values outside of QC limits**

Surrogate (Extracted Internal Standard) Recovery Summary
Form 2
Semivolatiles

Client: Arcadis of New York, Inc.
Project Name: MADISON AVE MGP SITE-EC SAMP

Lab Number: L1936410
Project Number: 30030318
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S15 ()	S16 ()	S17 ()	S18 ()	S19 ()	S20 ()	S21 ()	TOT OUT
MW-8S (L1936410-01)	41	106	104	107	--	--	--	1
MW-9S (L1936410-02)	17	48	68	71	--	--	--	0
MW-6S (L1936410-03)	15	51	75	75	--	--	--	0
FB-081319 (L1936410-04)	26	67	84	88	--	--	--	0
TB-081319 (L1936410-05)	22	45	69	75	--	--	--	0
DUP-081319 (L1936410-06)	19	48	64	66	--	--	--	0
WG1274916-1BLANK	35	77	86	87	--	--	--	0
WG1274916-2LCS	40	68	80	80	--	--	--	0
WG1274916-3LCSD	46	73	90	89	--	--	--	0
MW-6SMS	17	64	83	84	--	--	--	0
MW-6SMSD	19	64	81	82	--	--	--	0

QC LIMITS

(1-87) S15 = PERFLUORO[13C8]OCTANESULFONAMIDE (M8FOSA)
(23-146) S16 = N-DEUTERIOETHYLPERFLUORO-1-OCTANESULFONAMIDOACETIC ACID (D5-NETFOSAA)
(24-161) S17 = PERFLUORO[1,2-13C2]DODECANOIC ACID (MPFDOA)
(33-143) S18 = PERFLUORO[1,2-13C2]TETRADECANOIC ACID (M2PFTEDA)

*** Values outside of QC limits**

FORM II A2-NY-537-ISOTOPE (Continued)

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Arcadis of New York, Inc.	**Lab Number**	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	**Project Number**	: 30030318
Matrix	: WATER		
LCS Sample ID	: WG1274916-2 **Analysis Date** : 08/22/19 12:00	**File ID**	: I8067
LCSD Sample ID	: WG1274916-3 **Analysis Date** : 08/22/19 12:17	**File ID**	: I8068

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ng/l)	Found (ng/l)	%R	True (ng/l)	Found (ng/l)	%R	RPD	Recovery Limits	RPD Limit
Perfluorobutanoic Acid (PFBA)	40	42.8	107	40	42.9	107	0	67-148	30
Perfluoropentanoic Acid (PFPeA)	40	38.9	97	40	38.9	97	0	63-161	30
Perfluorobutanesulfonic Acid (PFBS)	35.4	32.2	91	35.4	32.4	91	0	65-157	30
Perfluorohexanoic Acid (PFHxA)	40	43.1	108	40	43.2	108	0	69-168	30
Perfluoroheptanoic Acid (PFHpA)	40	43.2	108	40	42.5	106	2	58-159	30
Perfluorohexanesulfonic Acid (PFHxS)	36.5	42.3	116	36.5	40.4	111	4	69-177	30
Perfluorooctanoic Acid (PFOA)	40	42.4	106	40	41.5	104	2	63-159	30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	38	40.6	107	38	45.0	118	10	49-187	30
Perfluoroheptanesulfonic Acid (PFHpS)	38	34.3	90	38	32.2	85	6	61-179	30
Perfluorononanoic Acid (PFNA)	40	40.0	100	40	41.4	104	4	68-171	30
Perfluorooctanesulfonic Acid (PFOS)	37	38.8	105	37	38.8	105	0	52-151	30
Perfluorodecanoic Acid (PFDA)	40	43.7	109	40	44.5	111	2	63-171	30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	38.4	36.4	95	38.4	39.8	104	9	56-173	30

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Arcadis of New York, Inc.	**Lab Number**	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	**Project Number**	: 30030318
Matrix	: WATER		
LCS Sample ID	: WG1274916-2 **Analysis Date** : 08/22/19 12:00	**File ID**	: I8067
LCSD Sample ID	: WG1274916-3 **Analysis Date** : 08/22/19 12:17	**File ID**	: I8068

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ng/l)	Found (ng/l)	%R	True (ng/l)	Found (ng/l)	%R	RPD	Recovery Limits	RPD Limit
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	40	44.5	111	40	47.6	119	7	60-166	30
Perfluoroundecanoic Acid (PFUnA)	40	41.3	103	40	40.4	101	2	60-153	30
Perfluorodecanesulfonic Acid (PFDS)	38.6	38.8	100	38.6	40.4	104	4	38-156	30
Perfluorooctanesulfonamide (FOSA)	40	35.2	88	40	35.0	87	1	46-170	30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	40	40.6	101	40	42.5	106	5	45-170	30
Perfluorododecanoic Acid (PFDoA)	40	43.2	108	40	44.2	110	2	67-153	30
Perfluorotridecanoic Acid (PFTrDA)	40	44.7	112	40	43.2	108	4	48-158	30
Perfluorotetradecanoic Acid (PFTA)	40	43.4	108	40	45.5	114	5	59-182	30

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Arcadis of New York, Inc.	Lab Number	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Client Sample ID	: MW-6S	Matrix	: WATER
Lab Sample ID	: L1936410-03	Analysis Date	: 08/22/19 15:14
Matrix Spike	: WG1274916-4	MS Analysis Date	: 08/22/19 12:33
Matrix Spike Dup	: WG1274916-5	MSD Analysis Date	: 08/22/19 12:50

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ng/l)	Spike Added (ng/l)	Spike Conc. (ng/l)	%R	Spike Added (ng/l)	Spike Conc. (ng/l)	%R	RPD	Recovery Limits	RPD Limit
Perfluorobutanoic Acid (PFBA)	2.53	36.9	42.1	107	35.6	40.4	106	4	67-148	30
Perfluoropentanoic Acid (PFPeA)	0.547J	36.9	36.5	99	35.6	34.7	98	5	63-161	30
Perfluorobutanesulfonic Acid (PFBS)	0.384J	32.7	29.9	92	31.5	28.6	91	4	65-157	30
Perfluorohexanoic Acid (PFHxA)	1.16J	36.9	40.6	110	35.6	38.0	107	7	69-168	30
Perfluoroheptanoic Acid (PFHpA)	1.21J	36.9	39.8	108	35.6	39.8	112	0	58-159	30
Perfluorohexanesulfonic Acid (PFHxS)	ND	33.6	39.9	119	32.4	37.5	116	6	69-177	30
Perfluorooctanoic Acid (PFOA)	11.8	36.9	50.4	105	35.6	48.0	102	5	63-159	30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	35	41.9	120	33.8	33.5	99	22	49-187	30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	35	33.9	97	33.8	31.6	94	7	61-179	30
Perfluorononanoic Acid (PFNA)	ND	36.9	37.9	103	35.6	36.6	103	3	68-171	30
Perfluorooctanesulfonic Acid (PFOS)	2.74	34.2	40.8	111	33	36.0	101	13	52-151	30
Perfluorodecanoic Acid (PFDA)	ND	36.9	38.7	105	35.6	36.1	101	7	63-171	30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	35.4	32.7	92	34.2	33.6	98	3	56-173	30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	36.9	45.0	122	35.6	35.8	101	23	60-166	30
Perfluoroundecanoic Acid (PFUnA)	ND	36.9	38.7	105	35.6	36.4	102	6	60-153	30

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Arcadis of New York, Inc.	**Lab Number**	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	**Project Number**	: 30030318
Client Sample ID	: MW-6S	**Matrix**	: WATER
Lab Sample ID	: L1936410-03	**Analysis Date**	: 08/22/19 15:14
Matrix Spike	: WG1274916-4	**MS Analysis Date**	: 08/22/19 12:33
Matrix Spike Dup	: WG1274916-5	**MSD Analysis Date**	: 08/22/19 12:50

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ng/l)	Spike Added (ng/l)	Spike Conc. (ng/l)	%R	Spike Added (ng/l)	Spike Conc. (ng/l)	%R	RPD	Recovery Limits	RPD Limit
Perfluorodecanesulfonic Acid (PFDS)	ND	35.6	29.7	83	34.4	28.3	82	5	38-156	30
Perfluorooctanesulfonamide (FOSA)	ND	36.9	30.8	84	35.6	31.0	87	1	46-170	30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	36.9	32.3	88	35.6	34.9	98	8	45-170	30
Perfluorododecanoic Acid (PFDoA)	ND	36.9	39.2	106	35.6	38.1	107	3	67-153	30
Perfluorotridecanoic Acid (PFTrDA)	ND	36.9	40.5	110	35.6	40.5	114	0	48-158	30
Perfluorotetradecanoic Acid (PFTA)	ND	36.9	41.7	113	35.6	39.8	112	5	59-182	30

Method Blank Summary
Form 4
Semivolatiles

Client	: Arcadis of New York, Inc.	**Lab Number**	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	**Project Number**	: 30030318
Lab Sample ID	: WG1274916-1	**Lab File ID**	: I8066
Instrument ID	: LCMS02	**Extraction Date**	: 08/21/19
Matrix	: WATER	**Analysis Date**	: 08/22/19 11:44
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1274916-2LCS	WG1274916-2	08/22/19 12:00
WG1274916-3LCSD	WG1274916-3	08/22/19 12:17
MW-6SMS	WG1274916-4	08/22/19 12:33
MW-6SMSD	WG1274916-5	08/22/19 12:50
MW-8S	L1936410-01	08/22/19 14:41
MW-9S	L1936410-02	08/22/19 14:58
MW-6S	L1936410-03	08/22/19 15:14
FB-081319	L1936410-04	08/22/19 15:31
TB-081319	L1936410-05	08/22/19 15:47
DUP-081319	L1936410-06	08/22/19 16:04

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File: PM6682-1
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PFAAs via EPA 537(M)-Isotope Dilution (WATER)

Holding Time: 14 days
Container/Sample Preservation: 1 - 2 Plastic/1 Plastic/1 H20 Plastic

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Perfluorobutanoic Acid (PFBA)	375-22-4	2	0.408	ng/l	67-148	30	67-148	30	30			
Perfluoropentanoic Acid (PFPeA)	2706-90-3	2	0.396	ng/l	63-161	30	63-161	30	30			
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	2	0.238	ng/l	65-157	30	65-157	30	30			
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	NONE	2	0.452	ng/l	37-219	30	37-219	30	30			
Perfluorohexanoic Acid (PFHxA)	307-24-4	2	0.328	ng/l	69-168	30	69-168	30	30			
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	2	0.2452	ng/l	52-156	30	52-156	30	30			
Perfluoroheptanoic Acid (PFHpA)	375-85-9	2	0.2252	ng/l	58-159	30	58-159	30	30			
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	2	0.376	ng/l	69-177	30	69-177	30	30			
Perfluorooctanoic Acid (PFOA)	335-67-1	2	0.236	ng/l	63-159	30	63-159	30	30			
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	2	1.332	ng/l	49-187	30	49-187	30	30			
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	2	0.688	ng/l	61-179	30	61-179	30	30			
Perfluorononanoic Acid (PFNA)	375-95-1	2	0.312	ng/l	68-171	30	68-171	30	30			
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	2	0.504	ng/l	52-151	30	52-151	30	30			
Perfluorodecanoic Acid (PFDA)	335-76-2	2	0.304	ng/l	63-171	30	63-171	30	30			
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	2	1.212	ng/l	56-173	30	56-173	30	30			
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	2	1.12	ng/l	48-150	30	48-150	30	30			
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSA	2355-31-9	2	0.648	ng/l	60-166	30	60-166	30	30			
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	2	0.26	ng/l	60-153	30	60-153	30	30			
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	2	0.98	ng/l	38-156	30	38-156	30	30			
Perfluorooctanesulfonamide (FOSA)	754-91-6	2	0.58	ng/l	46-170	30	46-170	30	30			
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	2	0.804	ng/l	45-170	30	45-170	30	30			
Perfluorododecanoic Acid (PFDoA)	307-55-1	2	0.372	ng/l	67-153	30	67-153	30	30			
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	2	0.3272	ng/l	48-158	30	48-158	30	30			
Perfluorotetradecanoic Acid (PFTA)	376-06-7	2	0.248	ng/l	59-182	30	59-182	30	30			
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Pr	13252-13-6	50	22.7	ng/l	50-150	30	50-150	30	30			
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	919005-14-4	2	0.336	ng/l	50-150	30	50-150	30	30			
Perfluorohexadecanoic Acid (PFHxDA)	67905-19-5	4	1.24	ng/l	50-150	30	50-150	30	30			
Perfluorooctadecanoic Acid (PFODA)	16517-11-6	4	1.148	ng/l	50-150	30	50-150	30	30			
Perfluorododecane Sulfonic Acid (PFDoDS)	79780-39-5	2	0.616	ng/l	50-150	30	50-150	30	30			
1H,1H,2H,2H-Perfluorododecanesulfonic Acid (10:2FTS)	120226-60-0	5	2.02	ng/l	50-150	30	50-150	30	30			
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF	756426-58-1	2	0.2768	ng/l	50-150	30	50-150	30	30			
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl	763051-92-9	2	0.2932	ng/l	50-150	30	50-150	30	30			
PFOA/PFOS, Total		2	0.236	ng/l				30	30			
PFAS, Total (5)		2	0.2252	ng/l				30	30			
Perfluoro[13C4]Butanoic Acid (MPFBA)	*NONE*									*2-156*		
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	*NONE*									*16-173*		
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	*NONE*									*31-159*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-	*NONE*									*1-313*		
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	*NONE*									*21-145*		
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	*NONE*									*30-139*		
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	*NONE*									*47-153*		
Perfluoro[13C8]Octanoic Acid (M8PFOA)	*NONE*									*36-149*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

PFAAs via EPA 537(M)-Isotope Dilution (WATER)

Holding Time: 14 days
Container/Sample Preservation: 1 - 2 Plastic/1 Plastic/1 H20 Plastic

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6	*NONE*									*1-244*		
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	*NONE*									*34-146*		
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	*NONE*									*42-146*		
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	*NONE*									*38-144*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8	*NONE*									*7-170*		
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid	*NONE*									*1-181*		
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	*NONE*									*40-144*		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	*NONE*									*1-87*		
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d	*NONE*									*23-146*		
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	*NONE*									*24-161*		
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	*NONE*									*33-143*		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13	*NONE*									*50-150*		
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	*NONE*									*50-150*		

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PFAAs via EPA 537(M)-Isotope Dilution (SOIL)

Holding Time: 28 days
Container/Sample Preservation: 1 - Plastic 8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Perfluorobutanoic Acid (PFBA)	375-22-4	1	0.0227	ng/g	71-135	30	71-135	30	30			
Perfluoropentanoic Acid (PFPeA)	2706-90-3	1	0.046	ng/g	69-132	30	69-132	30	30			
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	1	0.039	ng/g	72-128	30	72-128	30	30			
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	NONE	1	0.0645	ng/g	62-145	30	62-145	30	30			
Perfluorohexanoic Acid (PFHxA)	307-24-4	1	0.0525	ng/g	70-132	30	70-132	30	30			
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	1	0.0835	ng/g	73-123	30	73-123	30	30			
Perfluoroheptanoic Acid (PFHpA)	375-85-9	1	0.0451	ng/g	71-131	30	71-131	30	30			
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	1	0.0605	ng/g	67-130	30	67-130	30	30			
Perfluorooctanoic Acid (PFOA)	335-67-1	1	0.0419	ng/g	69-133	30	69-133	30	30			
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	1	0.1795	ng/g	64-140	30	64-140	30	30			
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	1	0.1365	ng/g	70-132	30	70-132	30	30			
Perfluorononanoic Acid (PFNA)	375-95-1	1	0.075	ng/g	72-129	30	72-129	30	30			
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	1	0.13	ng/g	68-136	30	68-136	30	30			
Perfluorodecanoic Acid (PFDA)	335-76-2	1	0.067	ng/g	69-133	30	69-133	30	30			
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	1	0.287	ng/g	65-137	30	65-137	30	30			
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	1	0.299	ng/g	69-125	30	69-125	30	30			
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSA	2355-31-9	1	0.2015	ng/g	63-144	30	63-144	30	30			
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	1	0.0468	ng/g	64-136	30	64-136	30	30			
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	1	0.153	ng/g	59-134	30	59-134	30	30			
Perfluorooctanesulfonamide (FOSA)	754-91-6	1	0.098	ng/g	67-137	30	67-137	30	30			
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	1	0.0845	ng/g	61-139	30	61-139	30	30			
Perfluorododecanoic Acid (PFDoA)	307-55-1	1	0.07	ng/g	69-135	30	69-135	30	30			
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	1	0.2045	ng/g	66-139	30	66-139	30	30			
Perfluorotetradecanoic Acid (PFTA)	376-06-7	1	0.054	ng/g	69-133	30	69-133	30	30			
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Pr	13252-13-6	10	3.81	ng/g	50-150	30	50-150	30	30			
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	919005-14-4	1	0.0413	ng/g	50-150	30	50-150	30	30			
Perfluorohexadecanoic Acid (PFHxDA)	67905-19-5	1	0.12	ng/g	50-150	30	50-150	30	30			
Perfluorooctadecanoic Acid (PFODA)	16517-11-6	1	0.171	ng/g	50-150	30	50-150	30	30			
PFOA/PFOS, Total		1	0.0419	ng/g				30	30			
PFAS, Total (5)		1	0.0419	ng/g				30	30			
Perfluoro[13C4]Butanoic Acid (M4PFBA)	*NONE*									*60-153*		
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	*NONE*									*65-182*		
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	*NONE*									*70-151*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4	*NONE*									*56-138*		
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	*NONE*									*61-147*		
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	*NONE*									*62-149*		
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	*NONE*									*63-166*		
Perfluoro[13C8]Octanoic Acid (M8PFOA)	*NONE*									*62-152*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6	*NONE*									*32-182*		
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	*NONE*									*61-154*		
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	*NONE*									*65-151*		
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	*NONE*									*65-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

PFAAs via EPA 537(M)-Isotope Dilution (SOIL)

Holding Time: 28 days
Container/Sample Preservation: 1 - Plastic 8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8	*NONE*									*25-186*		
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid	*NONE*									*45-137*		
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	*NONE*									*64-158*		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	*NONE*									*1-125*		
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d	*NONE*									*42-136*		
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	*NONE*									*56-148*		
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	*NONE*									*26-160*		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13	*NONE*									*50-150*		
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	*NONE*									*50-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Semivolatile Sample Data

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: Arcadis of New York, Inc.	Lab Number	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Lab ID	: L1936410-01	Date Collected	: 08/13/19 09:30
Client ID	: MW-8S	Date Received	: 08/13/19
Sample Location	: MADISON AVE., ELMIRA, NY	Date Analyzed	: 08/22/19 14:41
Sample Matrix	: WATER	Date Extracted	: 08/21/19
Analytical Method	: 122,537(M)	Dilution Factor	: 1
Lab File ID	: I8076	Analyst	: JW
Sample Amount	: 261 g	Instrument ID	: LCMS02
Extraction Method	: EPA 537	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
375-22-4	Perfluorobutanoic Acid (PFBA)	ND	1.92	0.391	U
2706-90-3	Perfluoropentanoic Acid (PFPeA)	0.797	1.92	0.379	J
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	1.92	0.228	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	1.22	1.92	0.314	J
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	1.92	0.216	U
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	1.92	0.360	U
335-67-1	Perfluorooctanoic Acid (PFOA)	1.20	1.92	0.226	J
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	1.92	1.28	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.92	0.659	U
375-95-1	Perfluorononanoic Acid (PFNA)	0.475	1.92	0.299	J
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	1.48	1.92	0.483	J
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.92	0.291	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.92	1.16	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.92	0.621	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.92	0.249	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.92	0.939	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	1.92	0.556	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.92	0.770	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: Arcadis of New York, Inc.	**Lab Number**	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	**Project Number**	: 30030318
Lab ID	: L1936410-01	**Date Collected**	: 08/13/19 09:30
Client ID	: MW-8S	**Date Received**	: 08/13/19
Sample Location	: MADISON AVE., ELMIRA, NY	**Date Analyzed**	: 08/22/19 14:41
Sample Matrix	: WATER	**Date Extracted**	: 08/21/19
Analytical Method	: 122,537(M)	**Dilution Factor**	: 1
Lab File ID	: I8076	**Analyst**	: JW
Sample Amount	: 261 g	**Instrument ID**	: LCMS02
Extraction Method	: EPA 537	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.92	0.356	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.92	0.313	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.92	0.238	U
NONE	PFOA/PFOS, Total	2.68	1.92	0.226	J

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: Arcadis of New York, Inc.	Lab Number	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Lab ID	: L1936410-02	Date Collected	: 08/13/19 11:30
Client ID	: MW-9S	Date Received	: 08/13/19
Sample Location	: MADISON AVE., ELMIRA, NY	Date Analyzed	: 08/22/19 14:58
Sample Matrix	: WATER	Date Extracted	: 08/21/19
Analytical Method	: 122,537(M)	Dilution Factor	: 1
Lab File ID	: I8077	Analyst	: JW
Sample Amount	: 276 g	Instrument ID	: LCMS02
Extraction Method	: EPA 537	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
375-22-4	Perfluorobutanoic Acid (PFBA)	2.22	1.81	0.370	
2706-90-3	Perfluoropentanoic Acid (PFPeA)	0.612	1.81	0.359	J
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	0.710	1.81	0.216	J
307-24-4	Perfluorohexanoic Acid (PFHxA)	0.909	1.81	0.297	J
375-85-9	Perfluoroheptanoic Acid (PFHpA)	0.812	1.81	0.204	J
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	1.81	0.340	U
335-67-1	Perfluorooctanoic Acid (PFOA)	1.18	1.81	0.214	J
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	1.81	1.21	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.81	0.623	U
375-95-1	Perfluorononanoic Acid (PFNA)	0.486	1.81	0.283	J
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	2.06	1.81	0.456	
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.81	0.275	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.81	1.10	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.81	0.587	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.81	0.236	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.81	0.888	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	1.81	0.525	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.81	0.728	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: Arcadis of New York, Inc.	**Lab Number**	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	**Project Number**	: 30030318
Lab ID	: L1936410-02	**Date Collected**	: 08/13/19 11:30
Client ID	: MW-9S	**Date Received**	: 08/13/19
Sample Location	: MADISON AVE., ELMIRA, NY	**Date Analyzed**	: 08/22/19 14:58
Sample Matrix	: WATER	**Date Extracted**	: 08/21/19
Analytical Method	: 122,537(M)	**Dilution Factor**	: 1
Lab File ID	: I8077	**Analyst**	: JW
Sample Amount	: 276 g	**Instrument ID**	: LCMS02
Extraction Method	: EPA 537	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.81	0.337	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.81	0.296	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.81	0.225	U
NONE	PFOA/PFOS, Total	3.24	1.81	0.214	J

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: Arcadis of New York, Inc.	Lab Number	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Lab ID	: L1936410-03	Date Collected	: 08/13/19 13:25
Client ID	: MW-6S	Date Received	: 08/13/19
Sample Location	: MADISON AVE., ELMIRA, NY	Date Analyzed	: 08/22/19 15:14
Sample Matrix	: WATER	Date Extracted	: 08/21/19
Analytical Method	: 122,537(M)	Dilution Factor	: 1
Lab File ID	: I8078	Analyst	: JW
Sample Amount	: 276 g	Instrument ID	: LCMS02
Extraction Method	: EPA 537	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
375-22-4	Perfluorobutanoic Acid (PFBA)	2.53	1.81	0.370	
2706-90-3	Perfluoropentanoic Acid (PFPeA)	0.547	1.81	0.359	J
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	0.384	1.81	0.216	J
307-24-4	Perfluorohexanoic Acid (PFHxA)	1.16	1.81	0.297	J
375-85-9	Perfluoroheptanoic Acid (PFHpA)	1.21	1.81	0.204	J
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	1.81	0.340	U
335-67-1	Perfluorooctanoic Acid (PFOA)	11.8	1.81	0.214	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	1.81	1.21	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.81	0.623	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	1.81	0.283	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	2.74	1.81	0.456	
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.81	0.275	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.81	1.10	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.81	0.587	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.81	0.236	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.81	0.888	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	1.81	0.525	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.81	0.728	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: Arcadis of New York, Inc.	**Lab Number**	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	**Project Number**	: 30030318
Lab ID	: L1936410-03	**Date Collected**	: 08/13/19 13:25
Client ID	: MW-6S	**Date Received**	: 08/13/19
Sample Location	: MADISON AVE., ELMIRA, NY	**Date Analyzed**	: 08/22/19 15:14
Sample Matrix	: WATER	**Date Extracted**	: 08/21/19
Analytical Method	: 122,537(M)	**Dilution Factor**	: 1
Lab File ID	: I8078	**Analyst**	: JW
Sample Amount	: 276 g	**Instrument ID**	: LCMS02
Extraction Method	: EPA 537	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.81	0.337	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.81	0.296	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.81	0.225	U
NONE	PFOA/PFOS, Total	14.5	1.81	0.214	

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: Arcadis of New York, Inc.	Lab Number	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Lab ID	: L1936410-04	Date Collected	: 08/13/19 14:00
Client ID	: FB-081319	Date Received	: 08/13/19
Sample Location	: MADISON AVE., ELMIRA, NY	Date Analyzed	: 08/22/19 15:31
Sample Matrix	: WATER	Date Extracted	: 08/21/19
Analytical Method	: 122,537(M)	Dilution Factor	: 1
Lab File ID	: I8079	Analyst	: JW
Sample Amount	: 271 g	Instrument ID	: LCMS02
Extraction Method	: EPA 537	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
375-22-4	Perfluorobutanoic Acid (PFBA)	ND	1.84	0.376	U
2706-90-3	Perfluoropentanoic Acid (PFPeA)	ND	1.84	0.365	U
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	1.84	0.220	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	0.354	1.84	0.302	J
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	1.84	0.208	U
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	1.84	0.347	U
335-67-1	Perfluorooctanoic Acid (PFOA)	ND	1.84	0.218	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	1.84	1.23	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.84	0.635	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	1.84	0.288	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	ND	1.84	0.465	U
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.84	0.280	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.84	1.12	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.84	0.598	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.84	0.240	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.84	0.904	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	1.84	0.535	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.84	0.742	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: Arcadis of New York, Inc.	**Lab Number**	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	**Project Number**	: 30030318
Lab ID	: L1936410-04	**Date Collected**	: 08/13/19 14:00
Client ID	: FB-081319	**Date Received**	: 08/13/19
Sample Location	: MADISON AVE., ELMIRA, NY	**Date Analyzed**	: 08/22/19 15:31
Sample Matrix	: WATER	**Date Extracted**	: 08/21/19
Analytical Method	: 122,537(M)	**Dilution Factor**	: 1
Lab File ID	: I8079	**Analyst**	: JW
Sample Amount	: 271 g	**Instrument ID**	: LCMS02
Extraction Method	: EPA 537	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.84	0.343	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.84	0.302	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.84	0.229	U
NONE	PFOA/PFOS, Total	ND	1.84	0.218	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: Arcadis of New York, Inc.	Lab Number	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Lab ID	: L1936410-05	Date Collected	: 08/13/19 14:30
Client ID	: TB-081319	Date Received	: 08/13/19
Sample Location	: MADISON AVE., ELMIRA, NY	Date Analyzed	: 08/22/19 15:47
Sample Matrix	: WATER	Date Extracted	: 08/21/19
Analytical Method	: 122,537(M)	Dilution Factor	: 1
Lab File ID	: I8080	Analyst	: JW
Sample Amount	: 276 g	Instrument ID	: LCMS02
Extraction Method	: EPA 537	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
375-22-4	Perfluorobutanoic Acid (PFBA)	ND	1.81	0.370	U
2706-90-3	Perfluoropentanoic Acid (PFPeA)	ND	1.81	0.359	U
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	1.81	0.216	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	ND	1.81	0.297	U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	1.81	0.204	U
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	1.81	0.340	U
335-67-1	Perfluorooctanoic Acid (PFOA)	ND	1.81	0.214	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	1.81	1.21	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.81	0.623	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	1.81	0.283	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	ND	1.81	0.456	U
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.81	0.275	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.81	1.10	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.81	0.587	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.81	0.236	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.81	0.888	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	1.81	0.525	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.81	0.728	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: Arcadis of New York, Inc.	**Lab Number**	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	**Project Number**	: 30030318
Lab ID	: L1936410-05	**Date Collected**	: 08/13/19 14:30
Client ID	: TB-081319	**Date Received**	: 08/13/19
Sample Location	: MADISON AVE., ELMIRA, NY	**Date Analyzed**	: 08/22/19 15:47
Sample Matrix	: WATER	**Date Extracted**	: 08/21/19
Analytical Method	: 122,537(M)	**Dilution Factor**	: 1
Lab File ID	: I8080	**Analyst**	: JW
Sample Amount	: 276 g	**Instrument ID**	: LCMS02
Extraction Method	: EPA 537	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.81	0.337	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.81	0.296	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.81	0.225	U
NONE	PFOA/PFOS, Total	ND	1.81	0.214	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: Arcadis of New York, Inc.	Lab Number	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Lab ID	: L1936410-06	Date Collected	: 08/13/19 00:00
Client ID	: DUP-081319	Date Received	: 08/13/19
Sample Location	: MADISON AVE., ELMIRA, NY	Date Analyzed	: 08/22/19 16:04
Sample Matrix	: WATER	Date Extracted	: 08/21/19
Analytical Method	: 122,537(M)	Dilution Factor	: 1
Lab File ID	: I8081	Analyst	: JW
Sample Amount	: 266 g	Instrument ID	: LCMS02
Extraction Method	: EPA 537	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
375-22-4	Perfluorobutanoic Acid (PFBA)	2.39	1.88	0.383	
2706-90-3	Perfluoropentanoic Acid (PFPeA)	0.883	1.88	0.372	J
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	0.812	1.88	0.224	J
307-24-4	Perfluorohexanoic Acid (PFHxA)	0.992	1.88	0.308	J
375-85-9	Perfluoroheptanoic Acid (PFHpA)	0.789	1.88	0.212	J
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	1.88	0.353	U
335-67-1	Perfluorooctanoic Acid (PFOA)	1.25	1.88	0.222	J
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	1.88	1.25	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.88	0.647	U
375-95-1	Perfluorononanoic Acid (PFNA)	0.677	1.88	0.293	J
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	1.86	1.88	0.474	J
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.88	0.286	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.88	1.14	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.88	0.609	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.88	0.244	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.88	0.921	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	1.88	0.545	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.88	0.756	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: Arcadis of New York, Inc.	**Lab Number**	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	**Project Number**	: 30030318
Lab ID	: L1936410-06	**Date Collected**	: 08/13/19 00:00
Client ID	: DUP-081319	**Date Received**	: 08/13/19
Sample Location	: MADISON AVE., ELMIRA, NY	**Date Analyzed**	: 08/22/19 16:04
Sample Matrix	: WATER	**Date Extracted**	: 08/21/19
Analytical Method	: 122,537(M)	**Dilution Factor**	: 1
Lab File ID	: I8081	**Analyst**	: JW
Sample Amount	: 266 g	**Instrument ID**	: LCMS02
Extraction Method	: EPA 537	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.88	0.350	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.88	0.308	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.88	0.233	U
NONE	PFOA/PFOS, Total	3.11	1.88	0.222	J

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: Arcadis of New York, Inc.	Lab Number	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Lab ID	: WG1274916-1	Date Collected	: NA
Client ID	: WG1274916-1BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 08/22/19 11:44
Sample Matrix	: WATER	Date Extracted	: 08/21/19
Analytical Method	: 122,537(M)	Dilution Factor	: 1
Lab File ID	: I8066	Analyst	: JW
Sample Amount	: 250 g	Instrument ID	: LCMS02
Extraction Method	: EPA 537	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
375-22-4	Perfluorobutanoic Acid (PFBA)	ND	2.00	0.408	U
2706-90-3	Perfluoropentanoic Acid (PFPeA)	ND	2.00	0.396	U
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	2.00	0.238	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	0.432	2.00	0.328	J
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	2.00	0.225	U
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	2.00	0.376	U
335-67-1	Perfluorooctanoic Acid (PFOA)	ND	2.00	0.236	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	2.00	1.33	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	2.00	0.688	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	2.00	0.312	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	ND	2.00	0.504	U
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	2.00	0.304	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	2.00	1.21	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	2.00	0.648	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	2.00	0.260	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	2.00	0.980	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	2.00	0.580	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	2.00	0.804	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client	: Arcadis of New York, Inc.	**Lab Number**	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	**Project Number**	: 30030318
Lab ID	: WG1274916-1	**Date Collected**	: NA
Client ID	: WG1274916-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 08/22/19 11:44
Sample Matrix	: WATER	**Date Extracted**	: 08/21/19
Analytical Method	: 122,537(M)	**Dilution Factor**	: 1
Lab File ID	: I8066	**Analyst**	: JW
Sample Amount	: 250 g	**Instrument ID**	: LCMS02
Extraction Method	: EPA 537	**GC Column**	: Acquity UPLC BEH C18
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 3 uL

		ng/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	2.00	0.372	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	2.00	0.327	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	2.00	0.248	U
NONE	PFOA/PFOS, Total	ND	2.00	0.236	U

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Method: C:\MassLynx\Data\2019\190822_537ISO.PRO\MethDB\537ISO_Q_190702_DODRT.mdb 07 Aug 2019 10:42:09
Calibration: C:\MassLynx\Data\2019\190822_537ISO.PRO\CurveDB\190702_ISO_ICAL.cdb 02 Jul 2019 11:07:37

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	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4		212.926 > 169.111			ND		na	
2	M3PFBA	INT STD	2.00	215.926 > 172.122	22610		5.846		na	58.5
3	MPFBA	INT STD	2.01	216.926 > 172.137	25974		10.244		na	102.4
4	PFPeA	2706-90-3	4.89	262.926 > 219.002	565		0.208		na	
5	M5PFPEA	INT STD	4.88	267.989 > 223.081	26443		7.368		na	73.7
6	PFBS	375-73-5		298.926 > 79.923			ND		YES	
7	M3PFBS	INT STD	5.55	301.989 > 80.254	8064		7.271		na	72.7
8	4:2FTS	757124-72-4		326.926 > 306.957			ND		YES	
9	M2-4:2FTS	INT STD	6.75	329.117 > 309.079	10630		15.995		na	160.0
10	PFHxA	307-24-4	6.84	312.989 > 269.028	1141	m4	0.319		YES	
11	M5PFHxA	INT STD	6.82	317.989 > 273.045	36170		5.906		na	59.1
12	PFPeS	2706-91-4		348.926 > 80.251			ND		YES	
13	PFHpA	375-85-9		362.926 > 319.014			ND		YES	
14	M4PFHpA	INT STD	8.14	366.926 > 321.979	57617		7.384		na	73.8
15	br-PFHxS	355-46-4		398.926 > 80.295			ND	0.00	NO	
16	L-PFHxS	355-46-4		398.926 > 80.295			ND	0.00	YES	
17	PFHxS	355-46-4		398.926 > 80.295	0		ND		na	
18	M3PFHxS	INT STD	8.30	401.926 > 80.317	5456		7.938		na	79.4
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	YES	
20	L-PFOA	335-67-1	9.10	412.989 > 368.9	2246	m4	0.312	14.90	NO	
21	M2PFOA	INT STD	9.10	415.032 > 369.968	72648		7.968		na	79.7
22	PFOA	335-67-1		412.989 > 368.9	2246		0.312		na	
23	M8PFOA	INT STD	9.10	420.989 > 375.979	72440		10.036		na	100.4
24	6:2FTS	27619-97-2		426.989 > 406.921			ND		YES	
25	M2-6:2FTS	INT STD	9.06	428.989 > 408.917	13096		21.868		na	218.7
26	PFHpS	375-92-8		448.926 > 80.257			ND		YES	
27	PFNA	375-95-1	9.88	462.989 > 418.931	918		0.124	8.44	YES	
28	M9PFNA	INT STD	9.88	472.053 > 426.947	81800		12.238		na	122.4
29	br-PFOS	1763-23-1		498.989 > 80.294			ND		YES	
30	L-PFOS	1763-23-1	9.93	498.989 > 80.294	357		0.386		YES	
31	PFOS	1763-23-1		498.989 > 80.294	357		0.386		na	
32	M4PFOS	INT STD	9.93	503.032 > 80.306	8332		11.204		na	112.0
33	M8PFOS	INT STD	9.93	507.053 > 80.294	8957		9.981		na	99.8
34	PFDA	335-76-2		513.053 > 468.906			ND		YES	
35	M2PFDA	INT STD	10.52	515.053 > 469.934	86243		12.058		na	120.6
36	M6PFDA	INT STD	10.51	519.053 > 473.931	91555		9.495		na	94.9
37	8:2FTS	39108-34-4		526.926 > 506.818			ND		na	
38	M2-8:2FTS	INT STD	10.51	529.053 > 508.945	8505		25.878		na	258.8
39	PFNS	68259-12-1	10.52	548.989 > 80.249	40		0.045		YES	

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40	d3-NMeFOSAA	INT STD	10.90	573.096 > 418.987	9868		10.312		na	103.1
41	NMeFOSAA	2355-31-9		570.053 > 418.917			ND		YES	
42	PFUnA	2058-94-8		562.989 > 518.903			ND	0.00	YES	
43	M7-PFUDA	INT STD	11.06	570.053 > 524.923	93786		10.999		na	110.0
44	PFDS	335-77-3		598.926 > 80.314			ND		YES	
45	FOSA	754-91-6		497.989 > 78.245			ND		YES	
46	M8FOSA	INT STD	10.93	506.053 > 78.286	11724		4.085		na	40.8
47	d5-NEtFOSAA	INT STD	11.19	589.117 > 418.929	9176		10.583		na	105.8
48	NEtFOSAA	2991-50-6	11.19	583.989 > 418.927	124		0.133		YES	
49	PFDoA	307-55-1		612.989 > 568.967			ND		YES	
50	MPFDOA	INT STD	11.54	614.989 > 569.92	98416		10.424		na	104.2
51	PFTrDA	72629-94-8		663.053 > 618.969			ND		YES	
52	PFTA	376-06-7		713.053 > 668.976			ND		YES	
53	M2PFTEDA	INT STD	12.31	715.053 > 669.945	85581		10.728		na	107.3

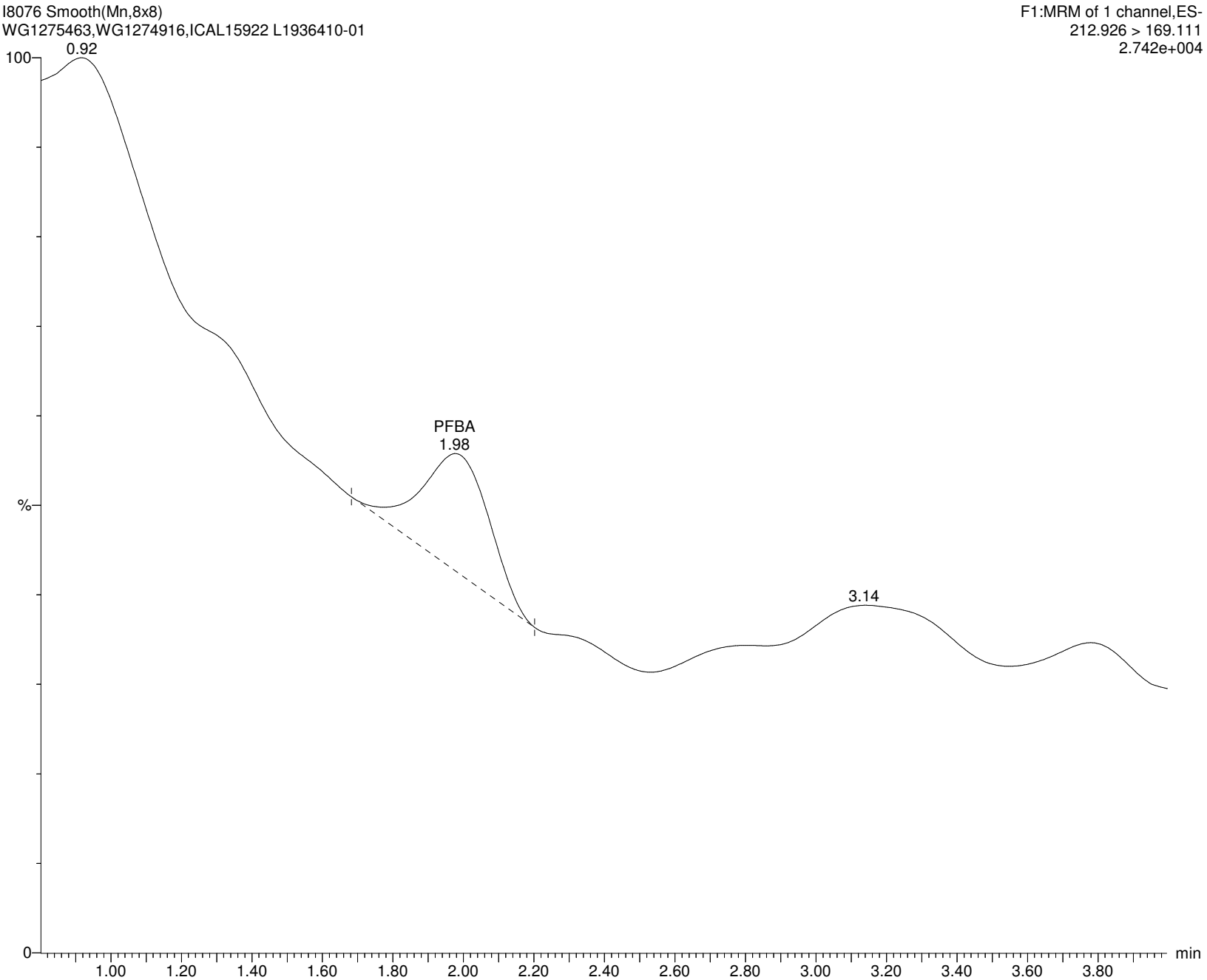
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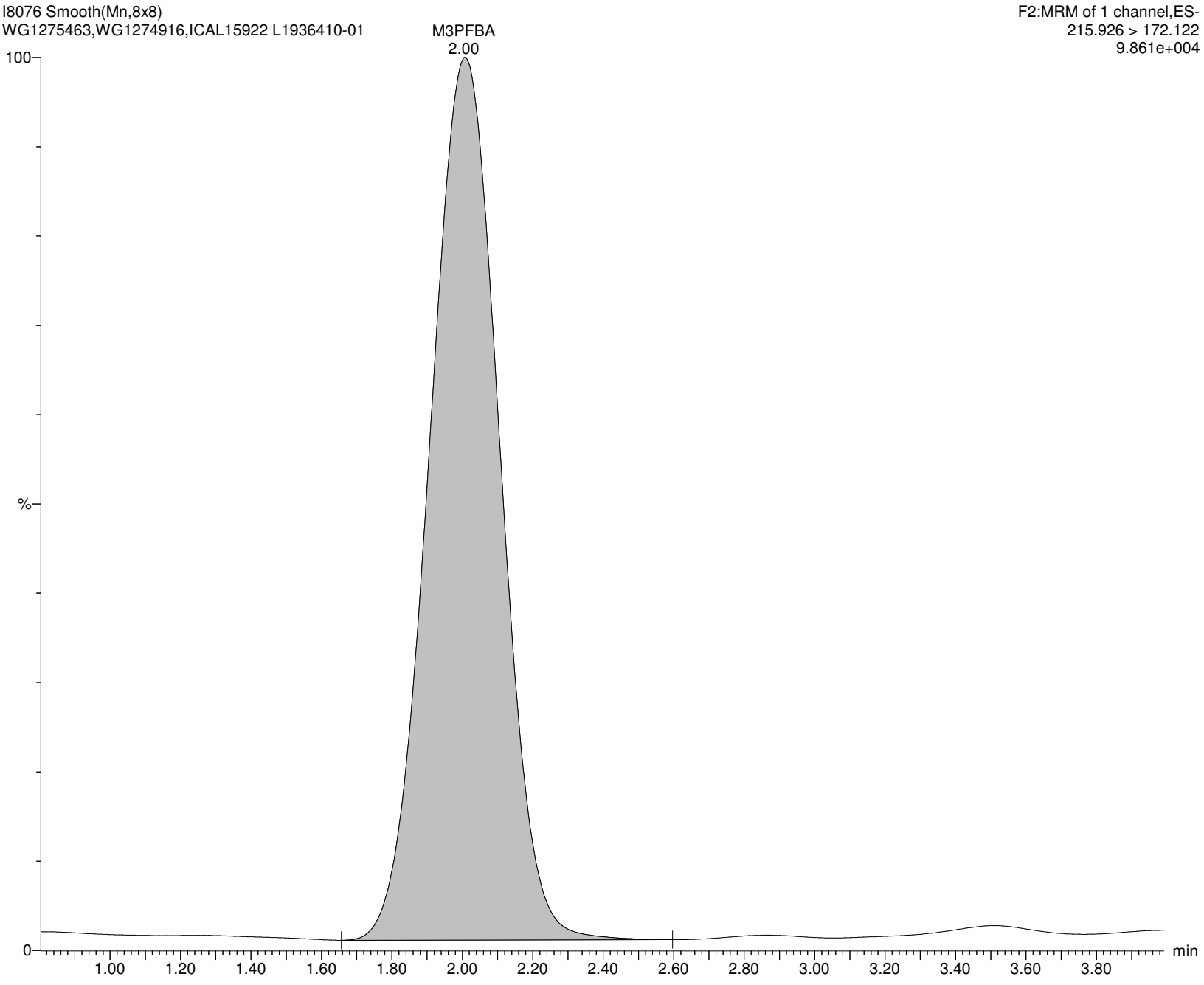


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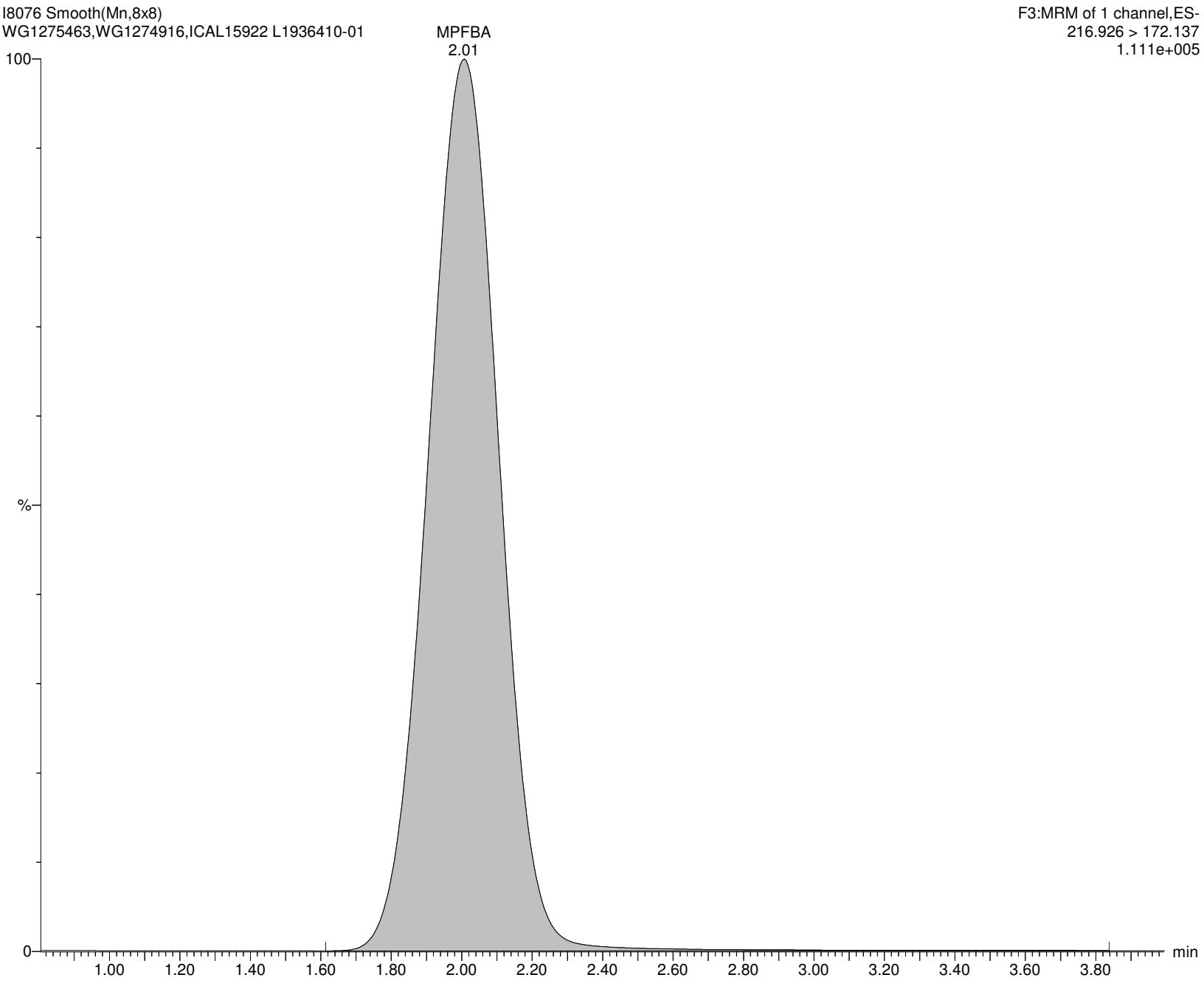


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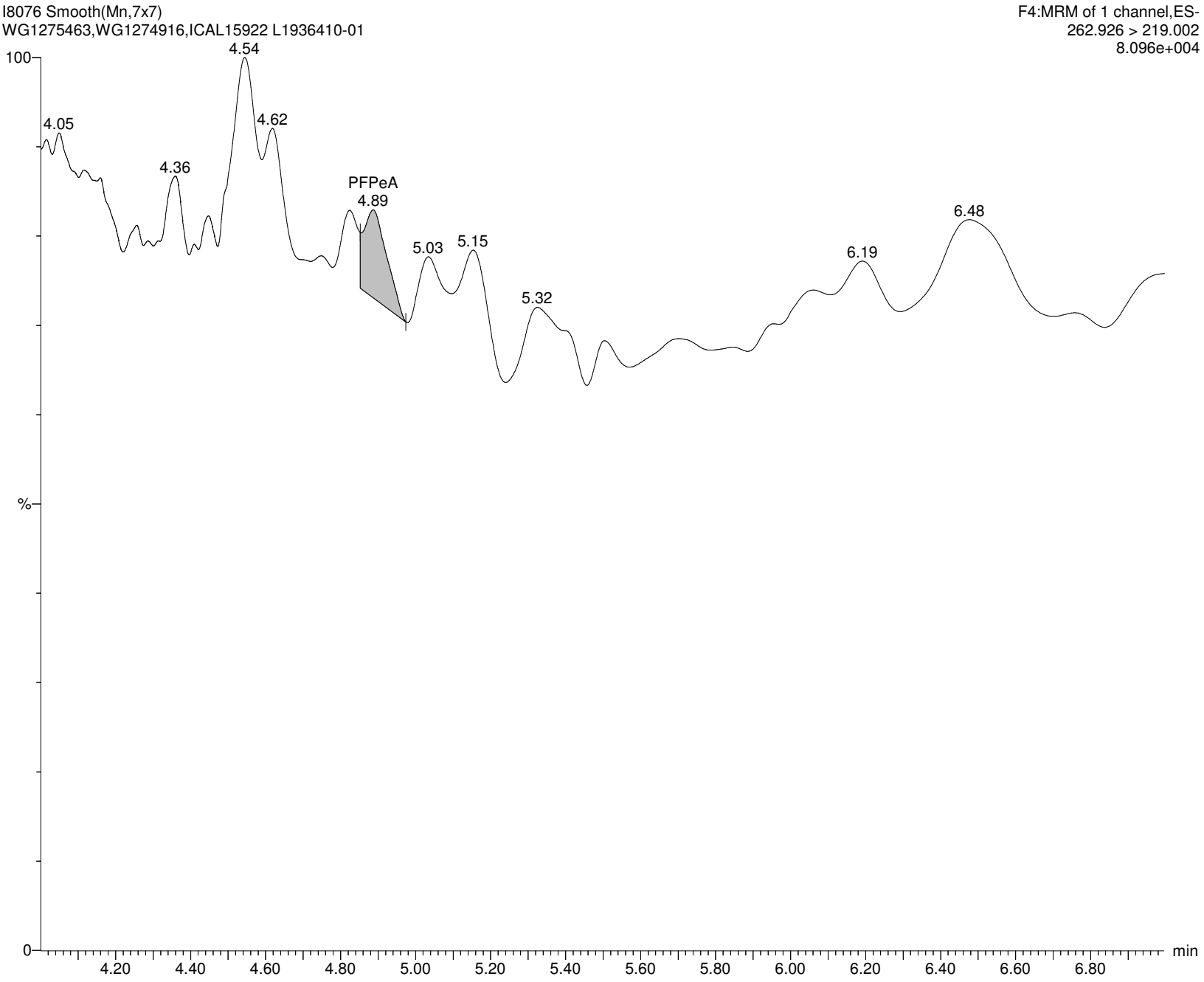


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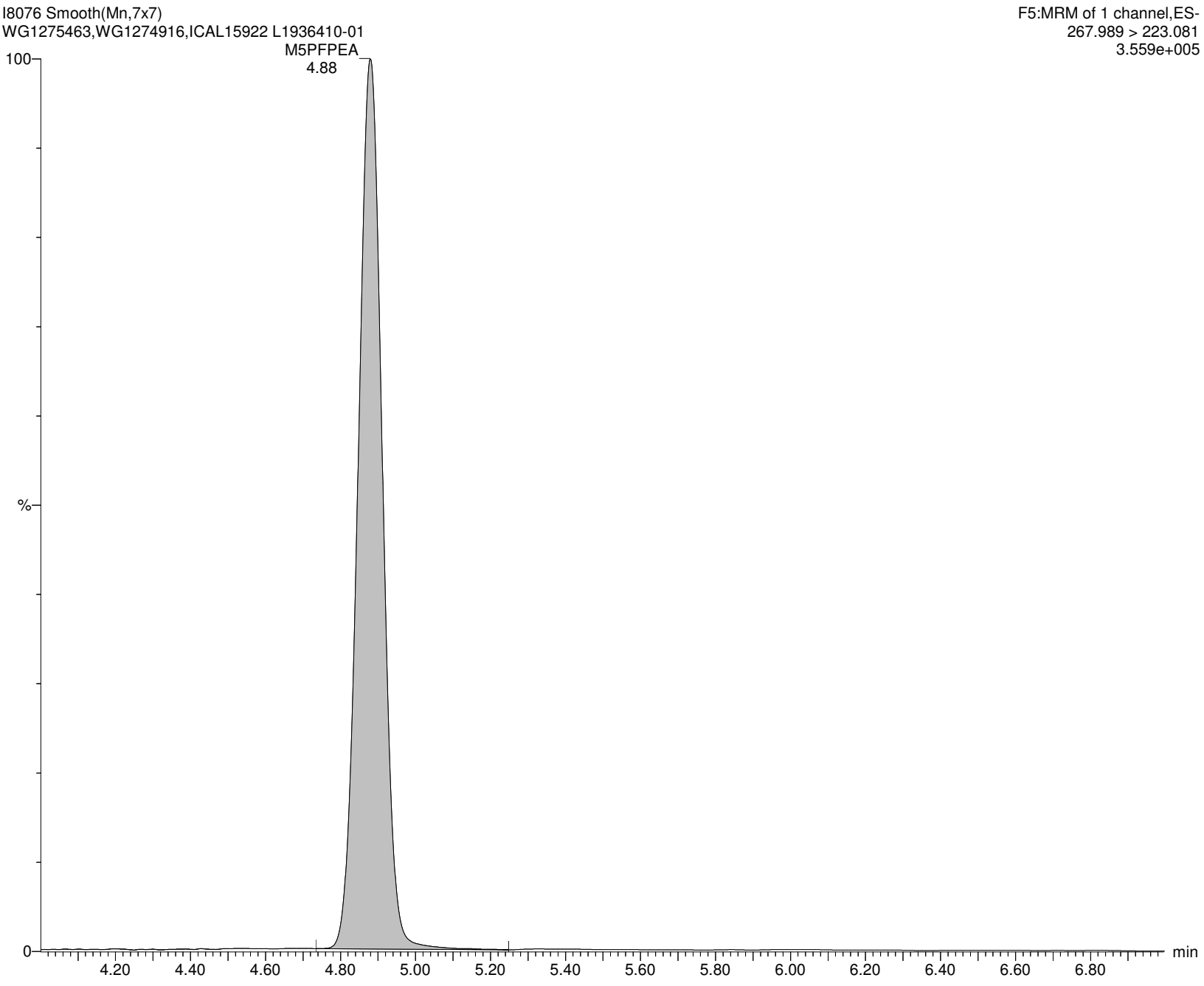


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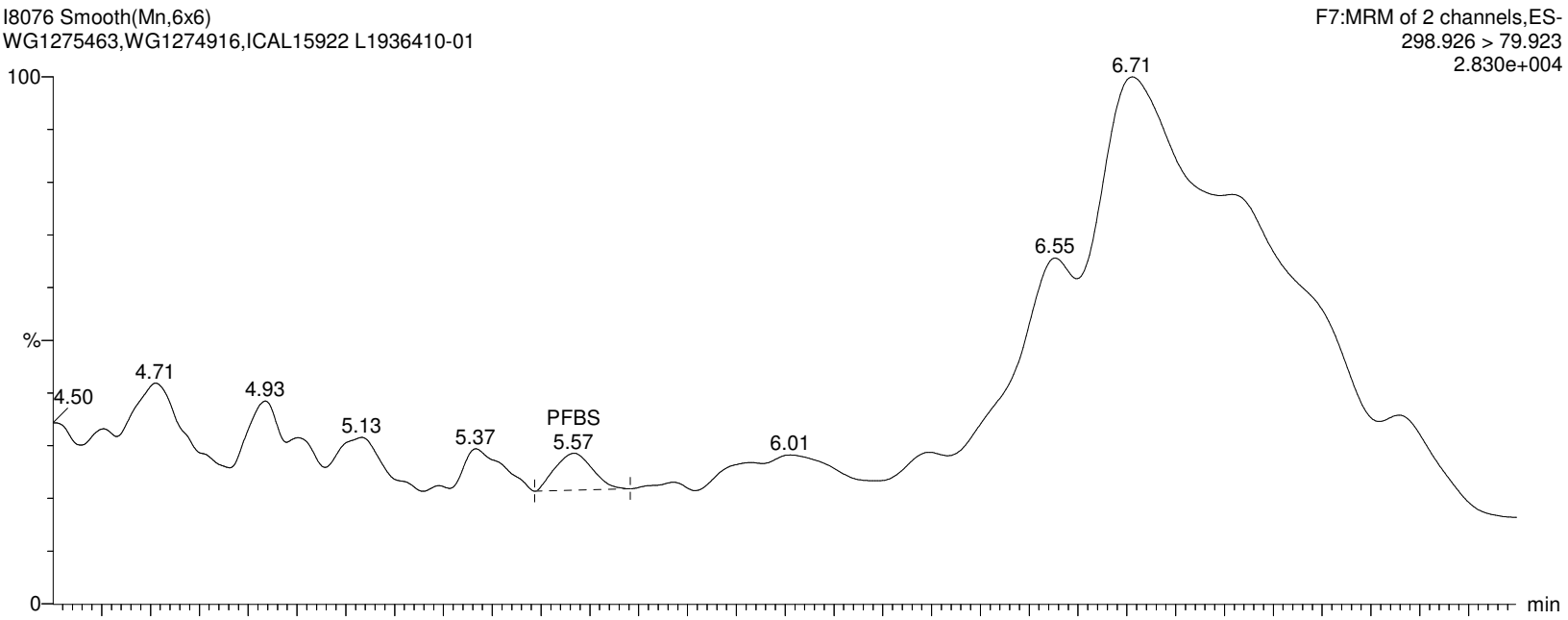


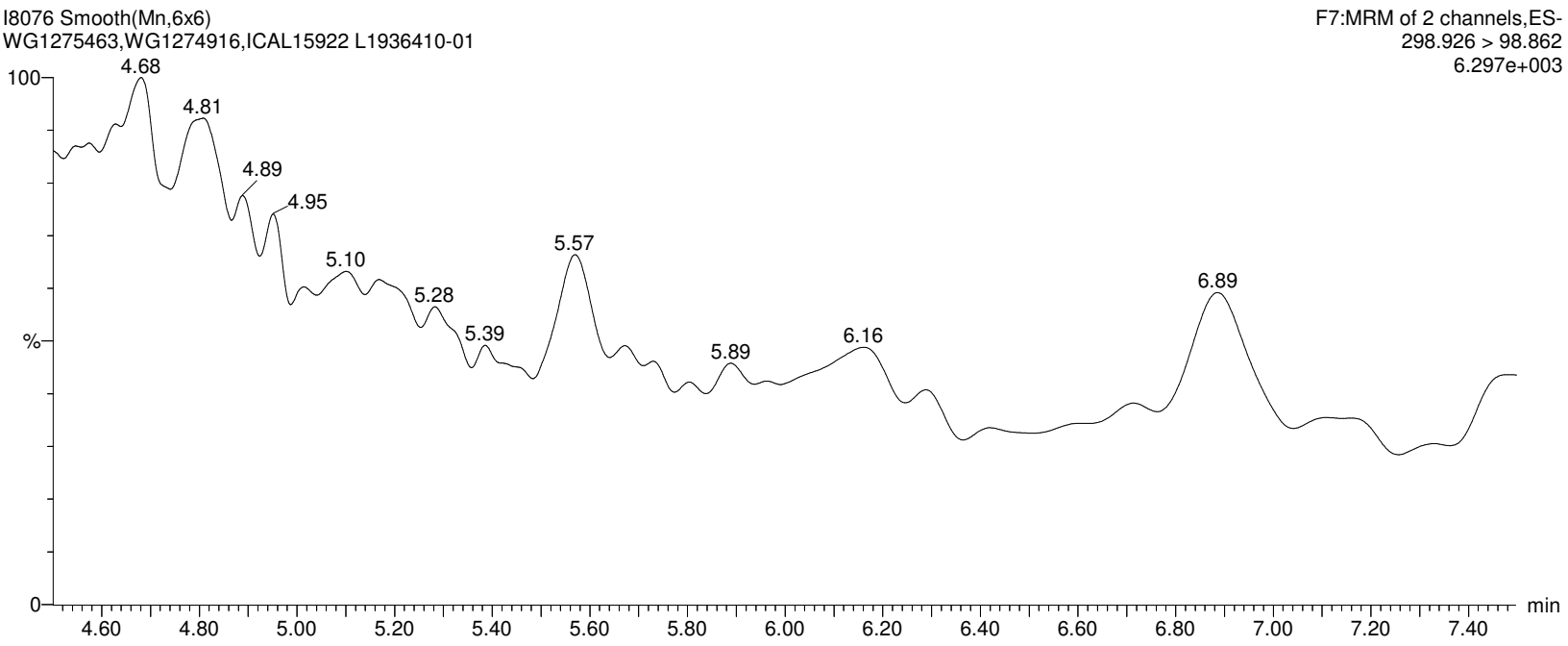
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PFBS



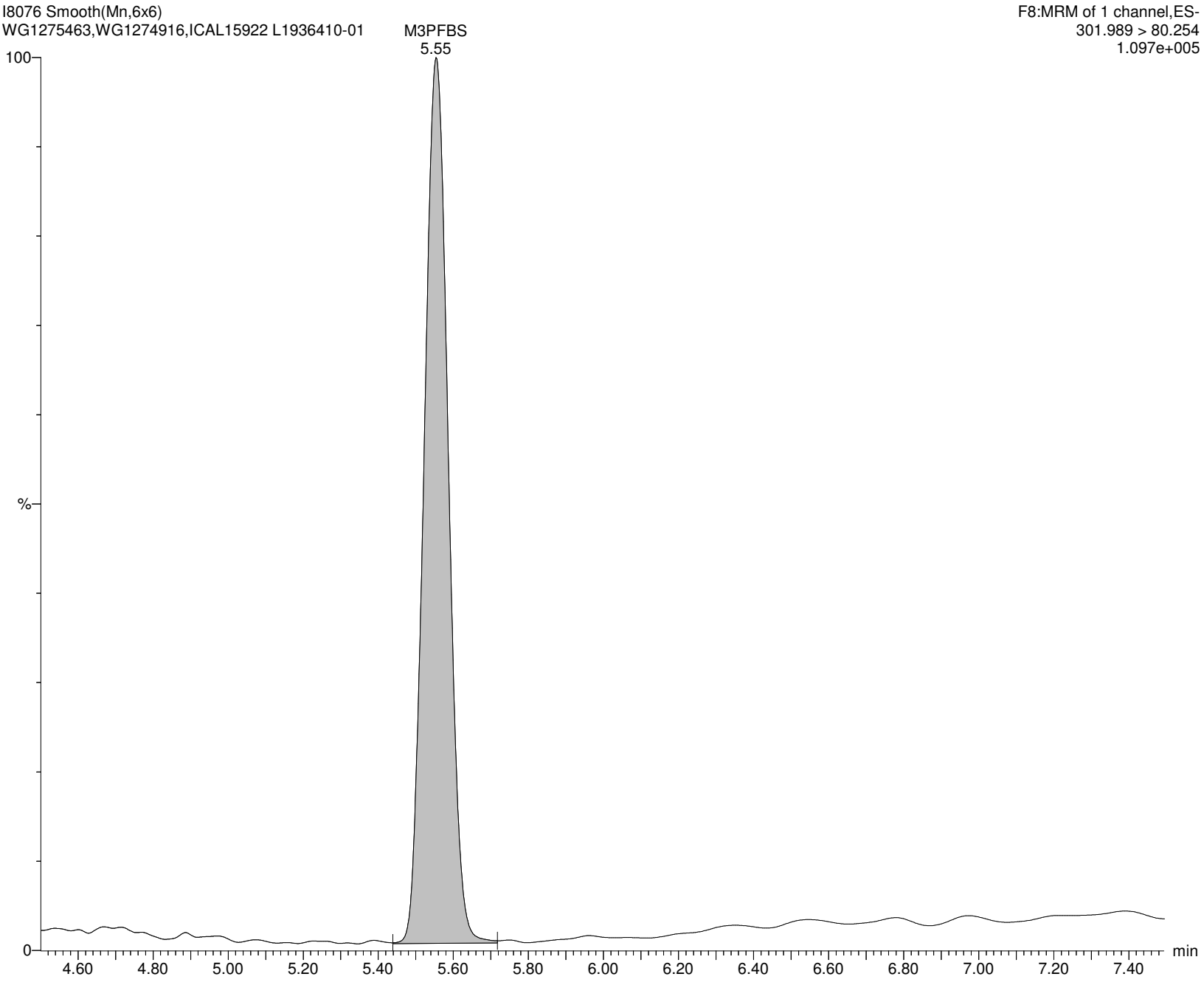


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M3PFBS

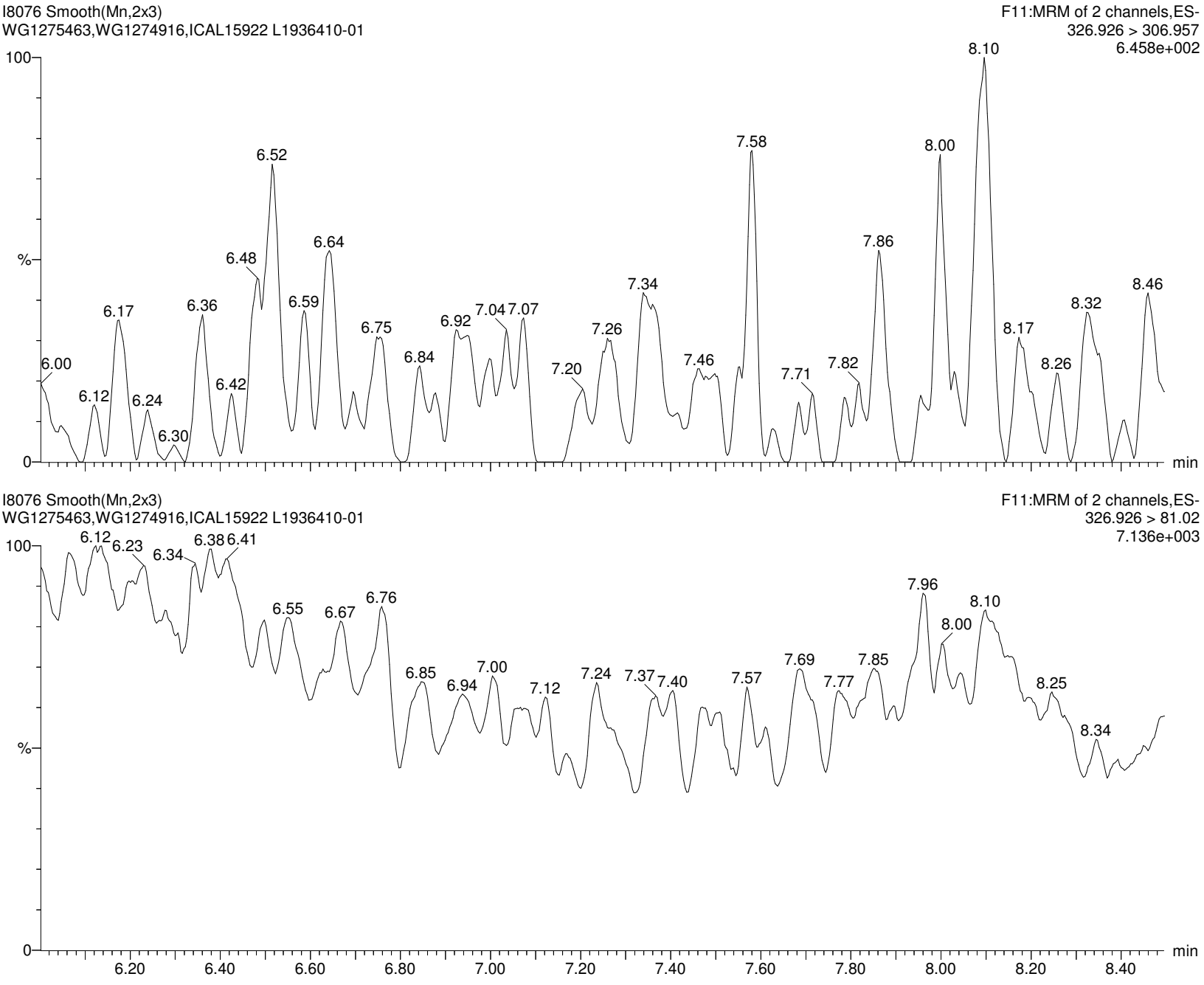


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4:2FTS

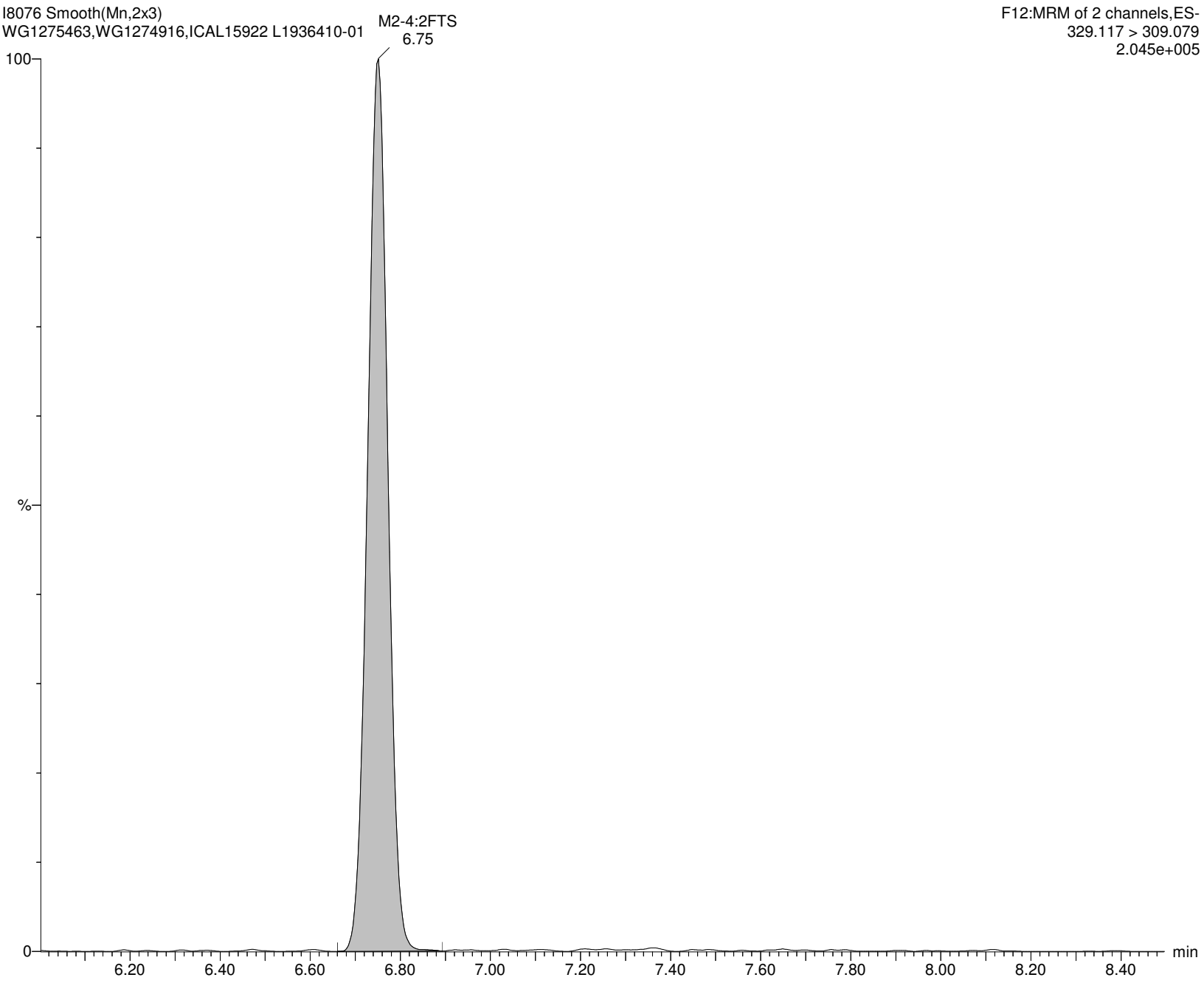


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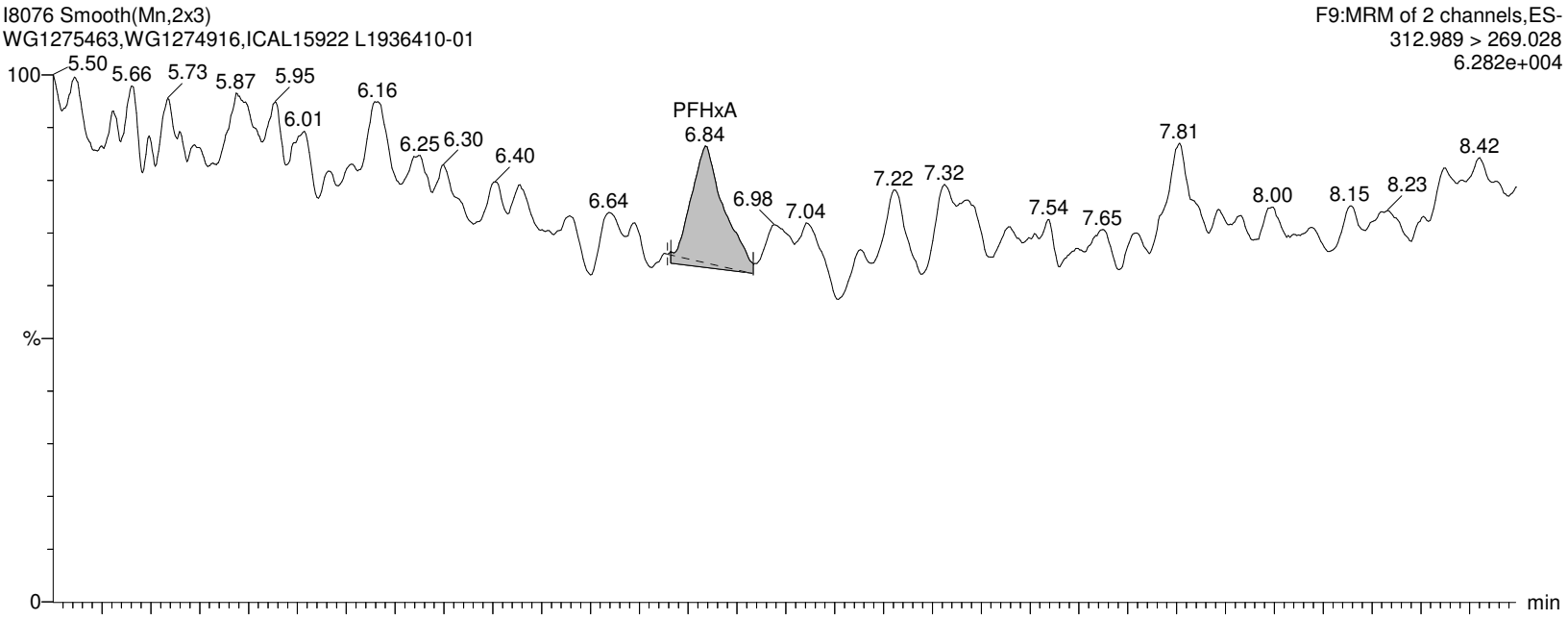


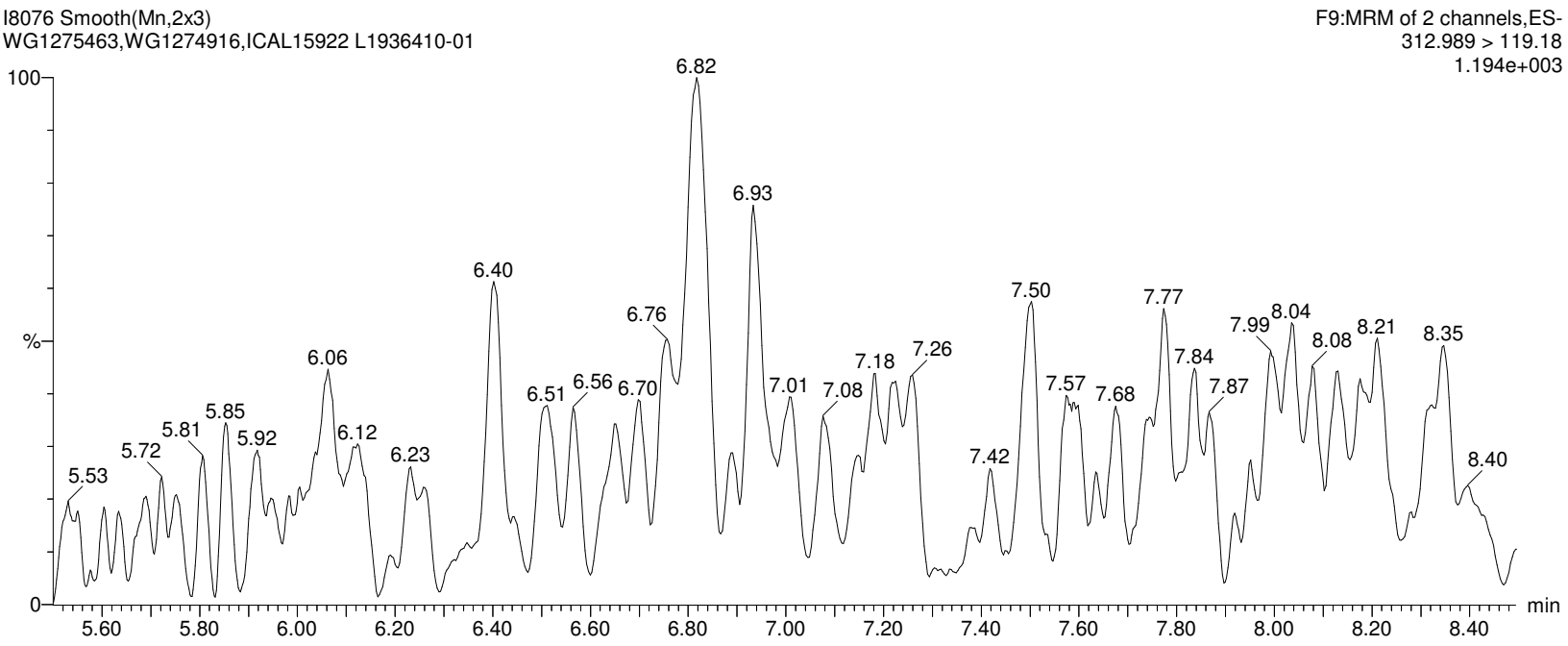
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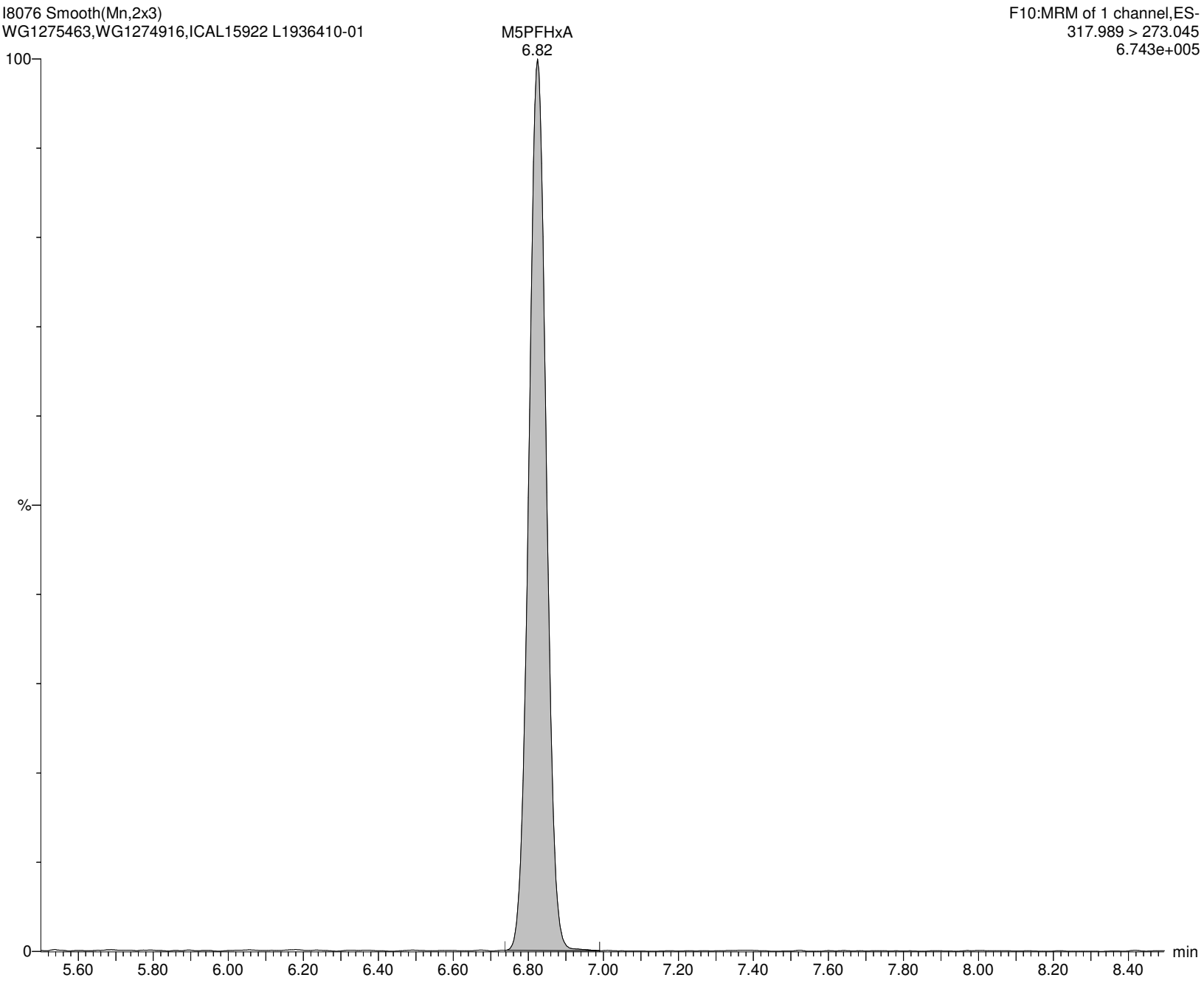


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, August 23, 2019 09:51:17 Eastern Daylight Time
Printed: Friday, August 23, 2019 09:51:29 Eastern Daylight Time

Name: I8076
ID: L1936410-01
Date: 22-Aug-2019
Time: 14:41:35
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:C,6
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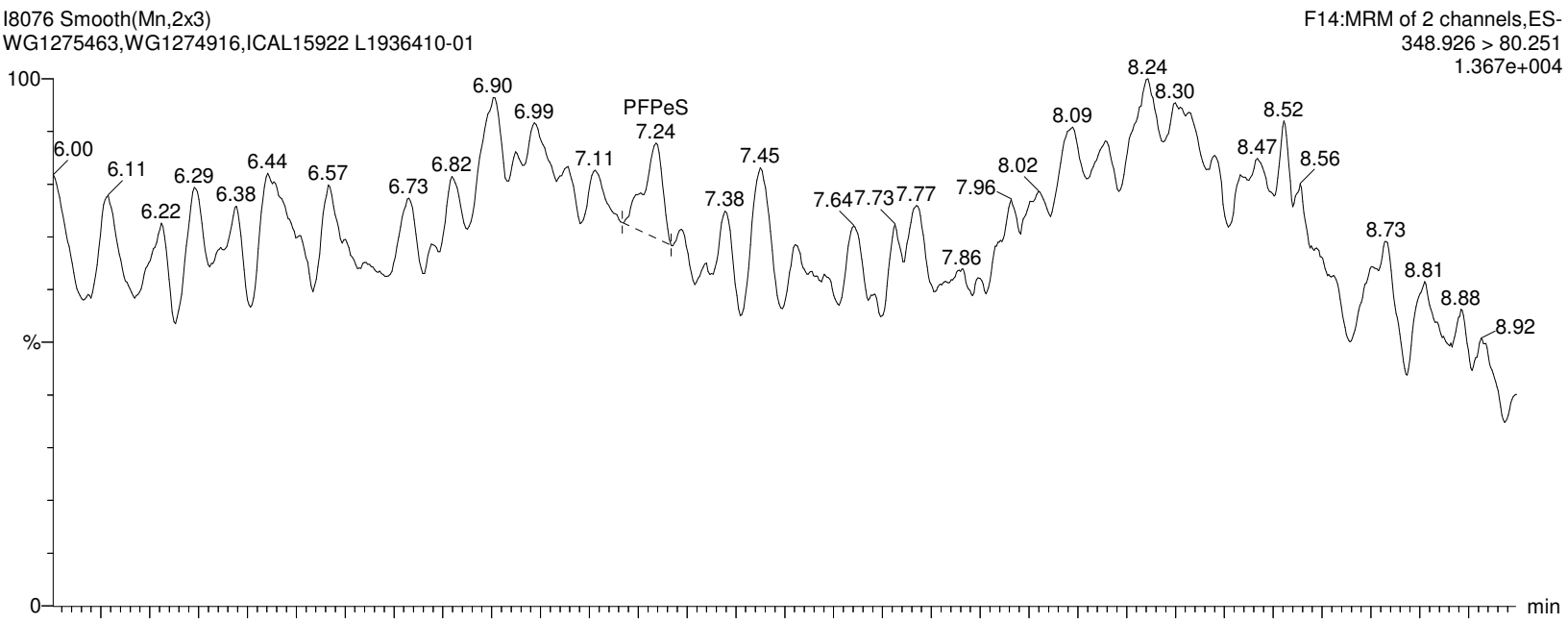


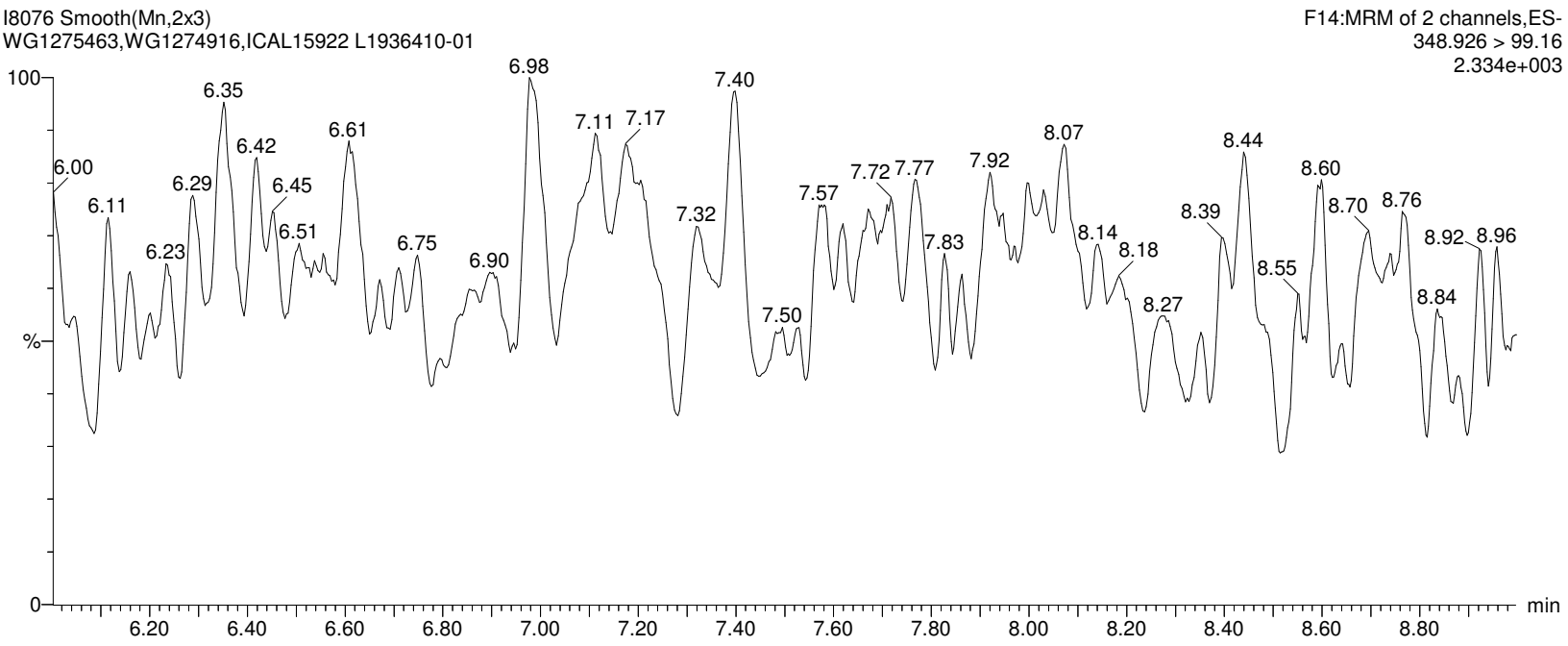
all concentration units in (ng/mL)

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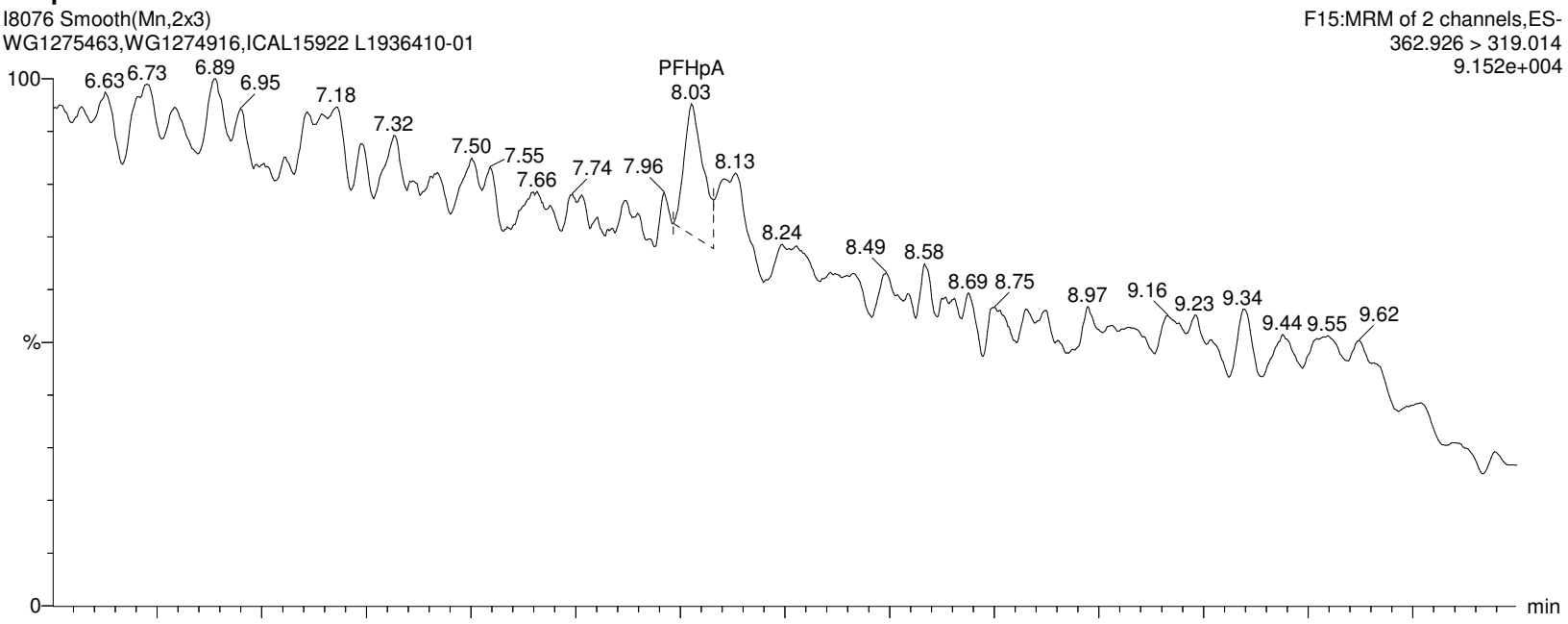


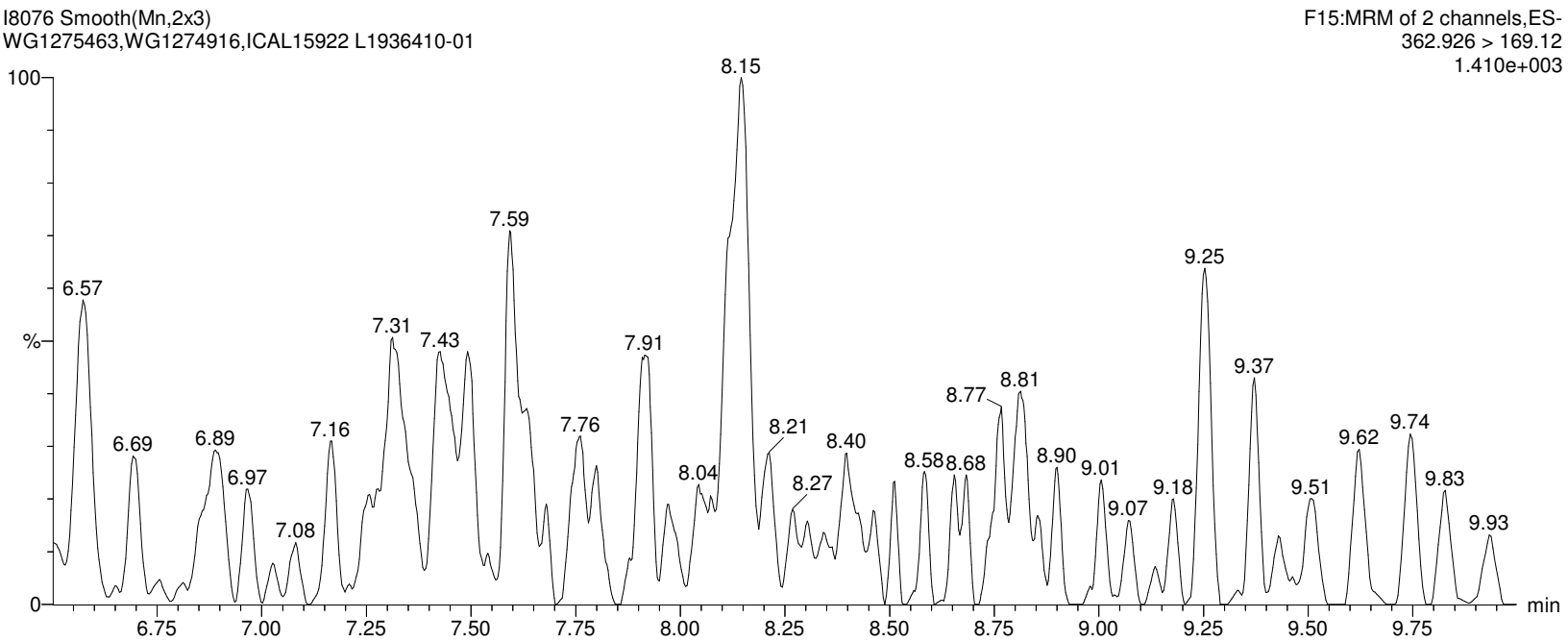
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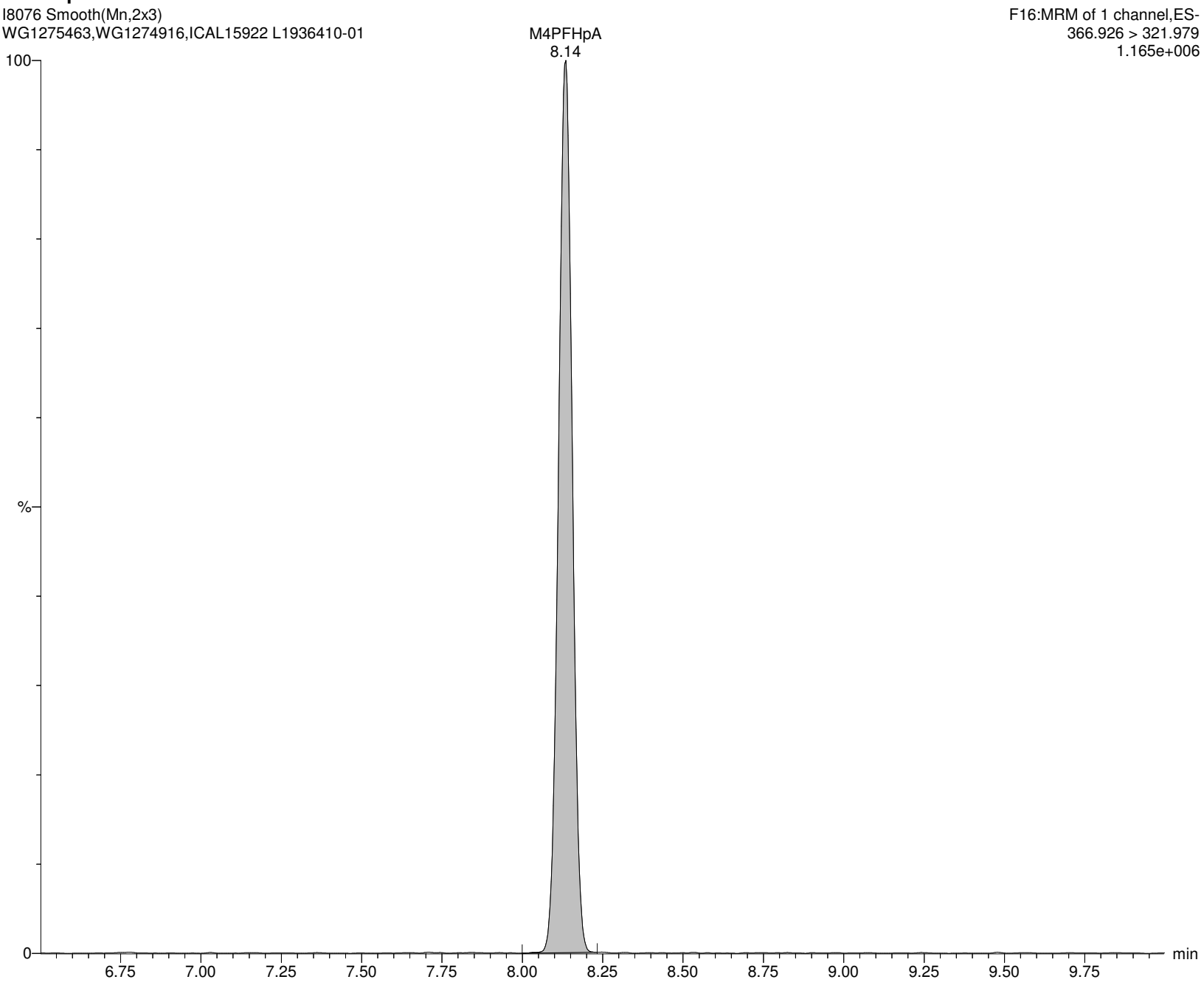


all concentration units in (ng/mL)

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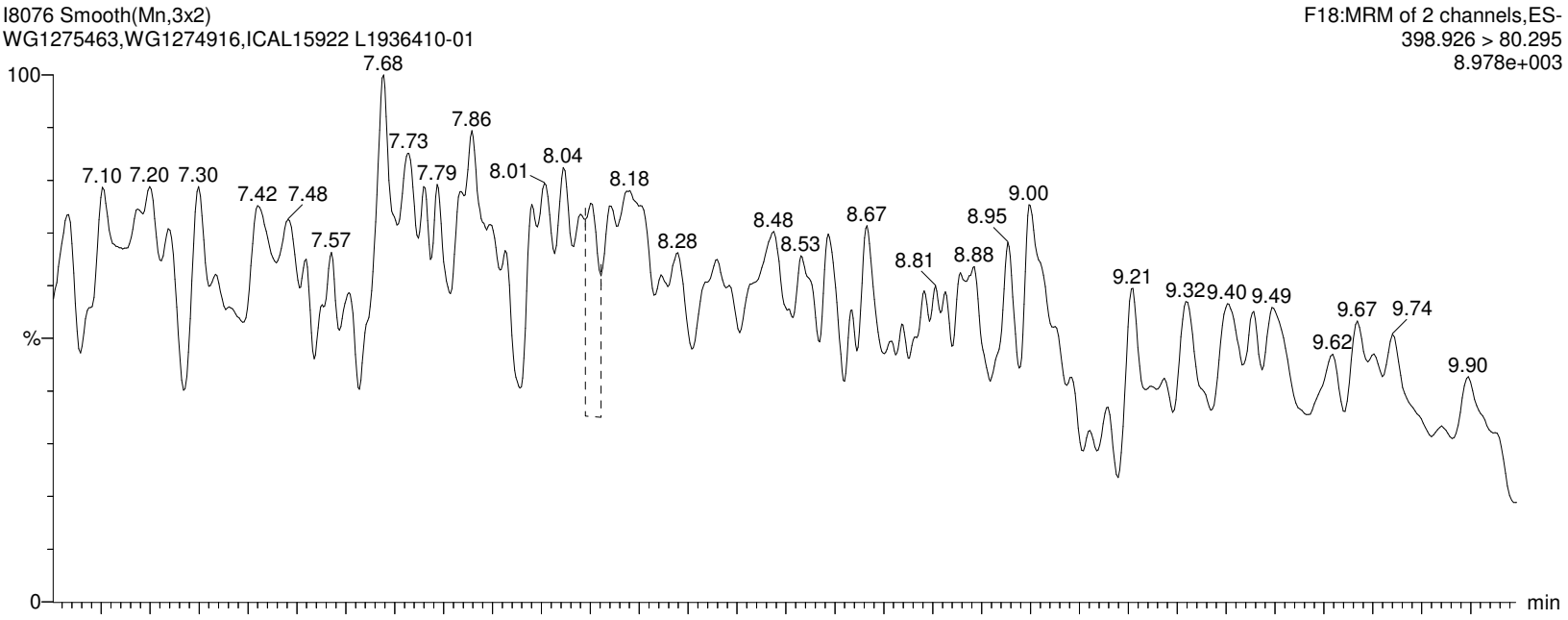


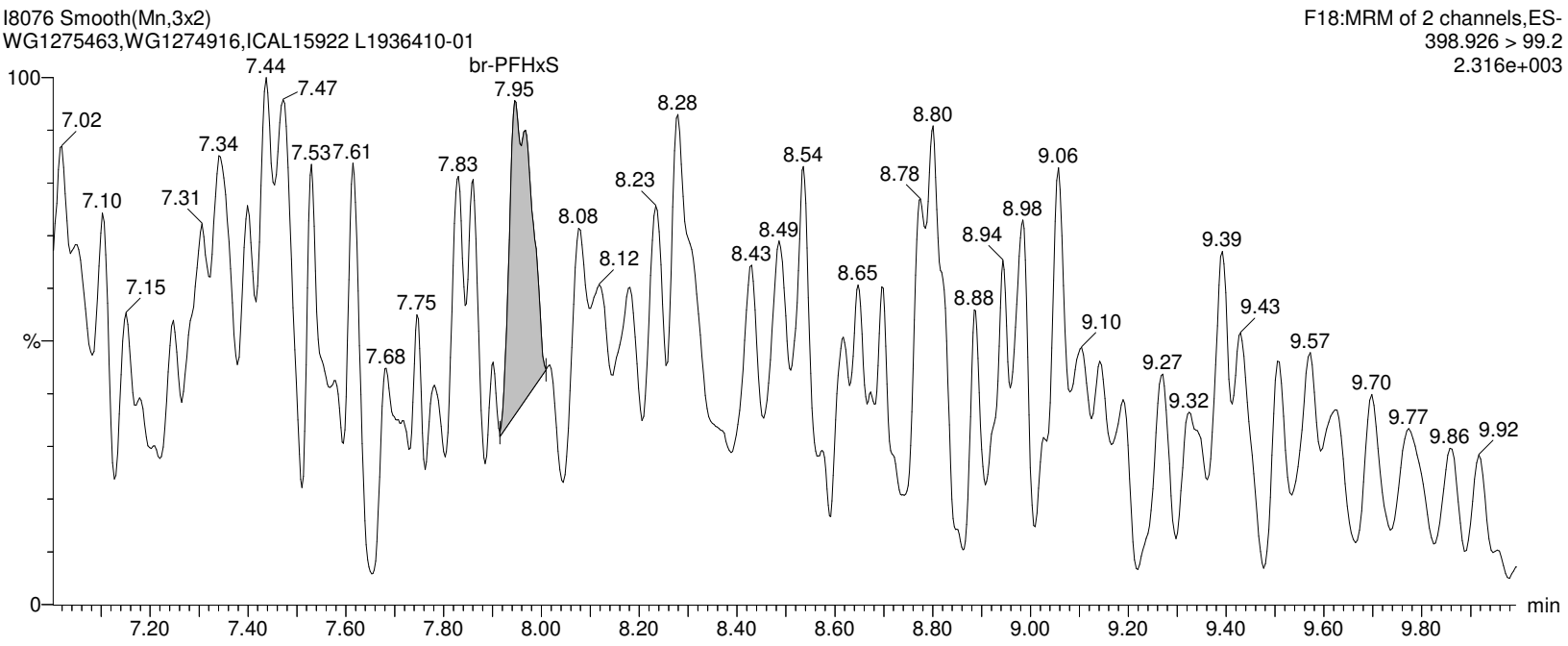
all concentration units in (ng/mL)

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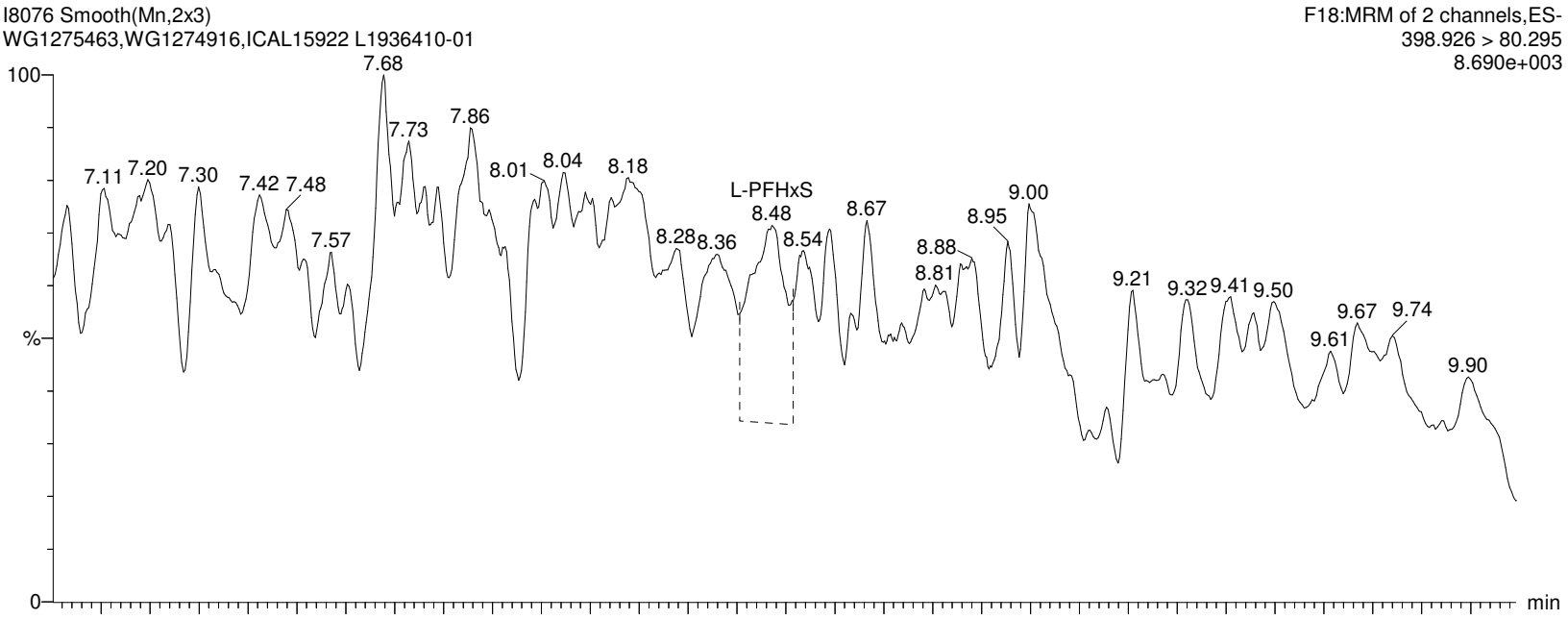


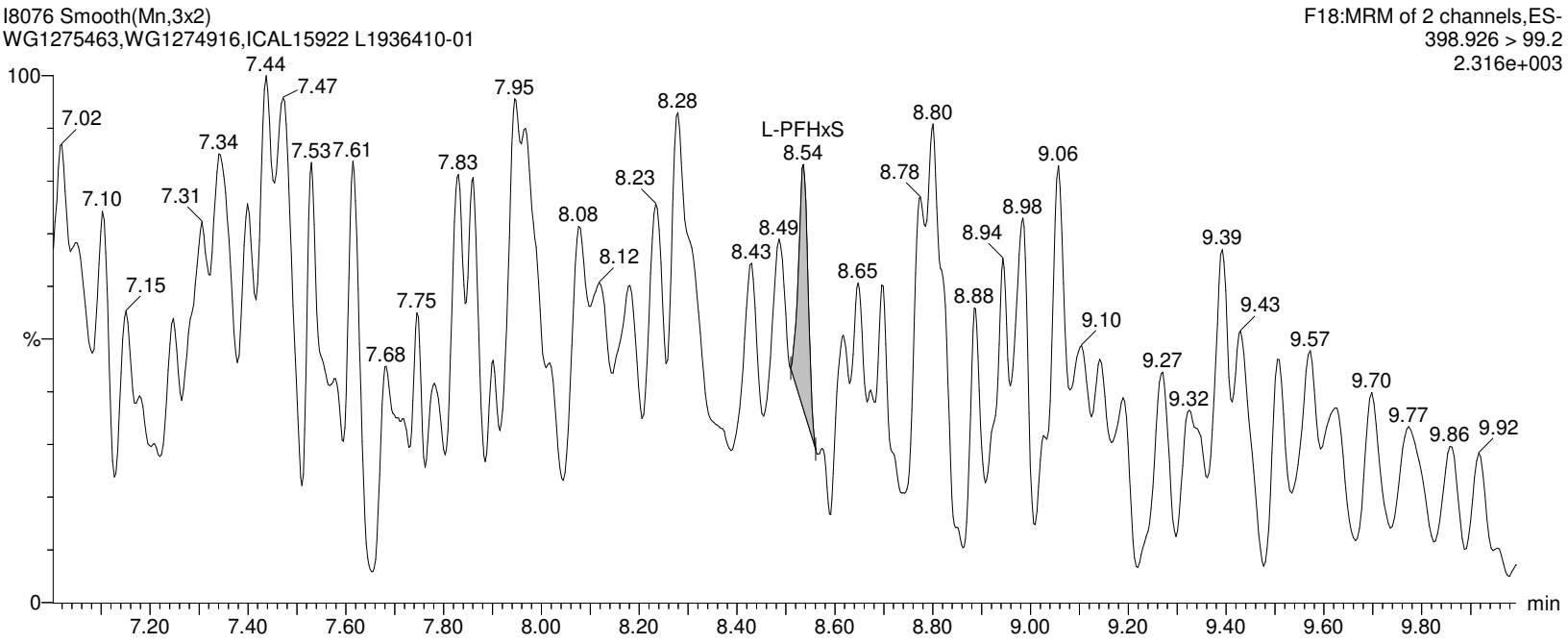
all concentration units in (ng/mL)

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L-PFHxS



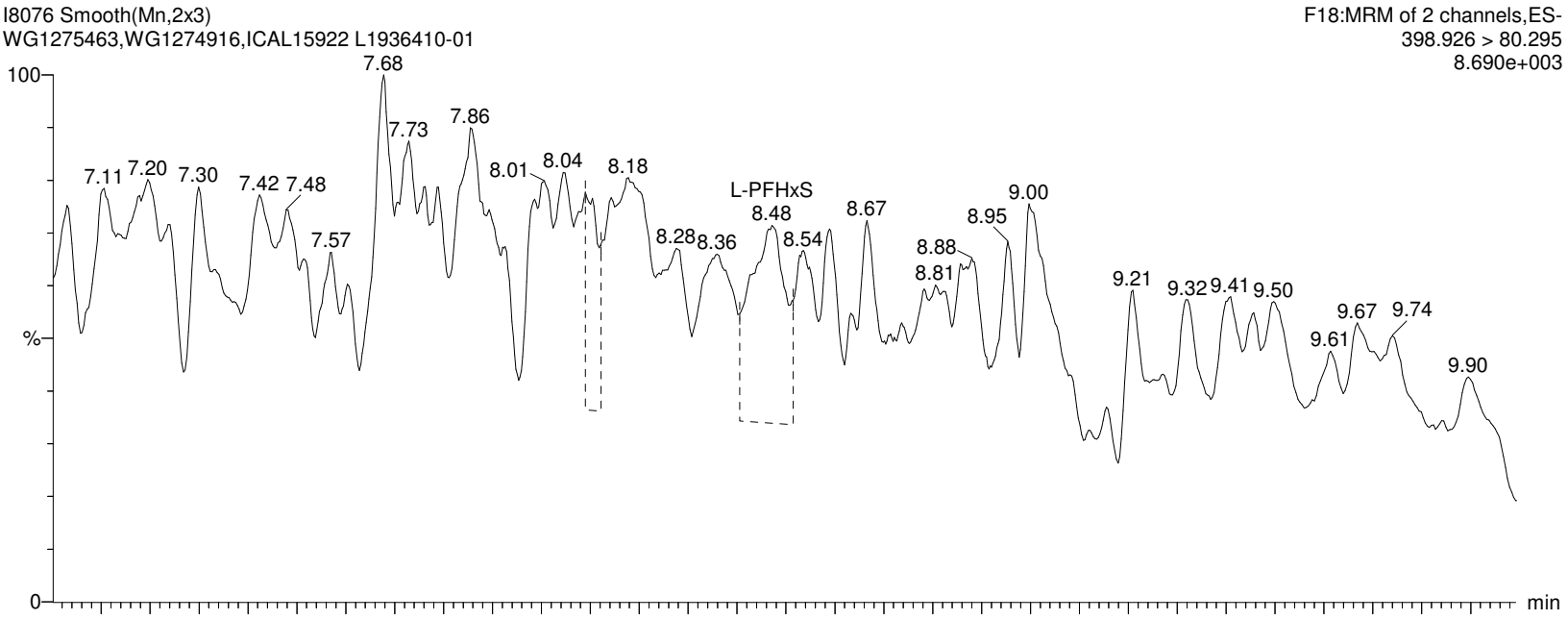


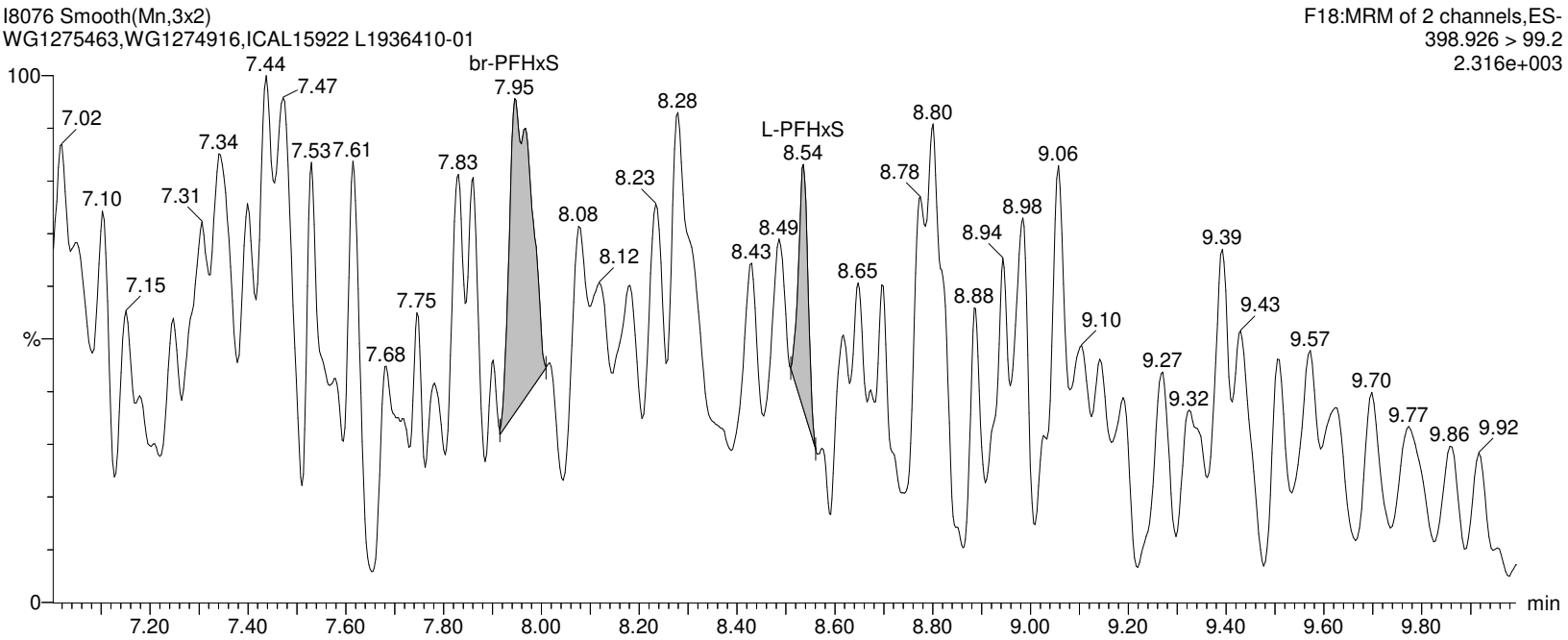
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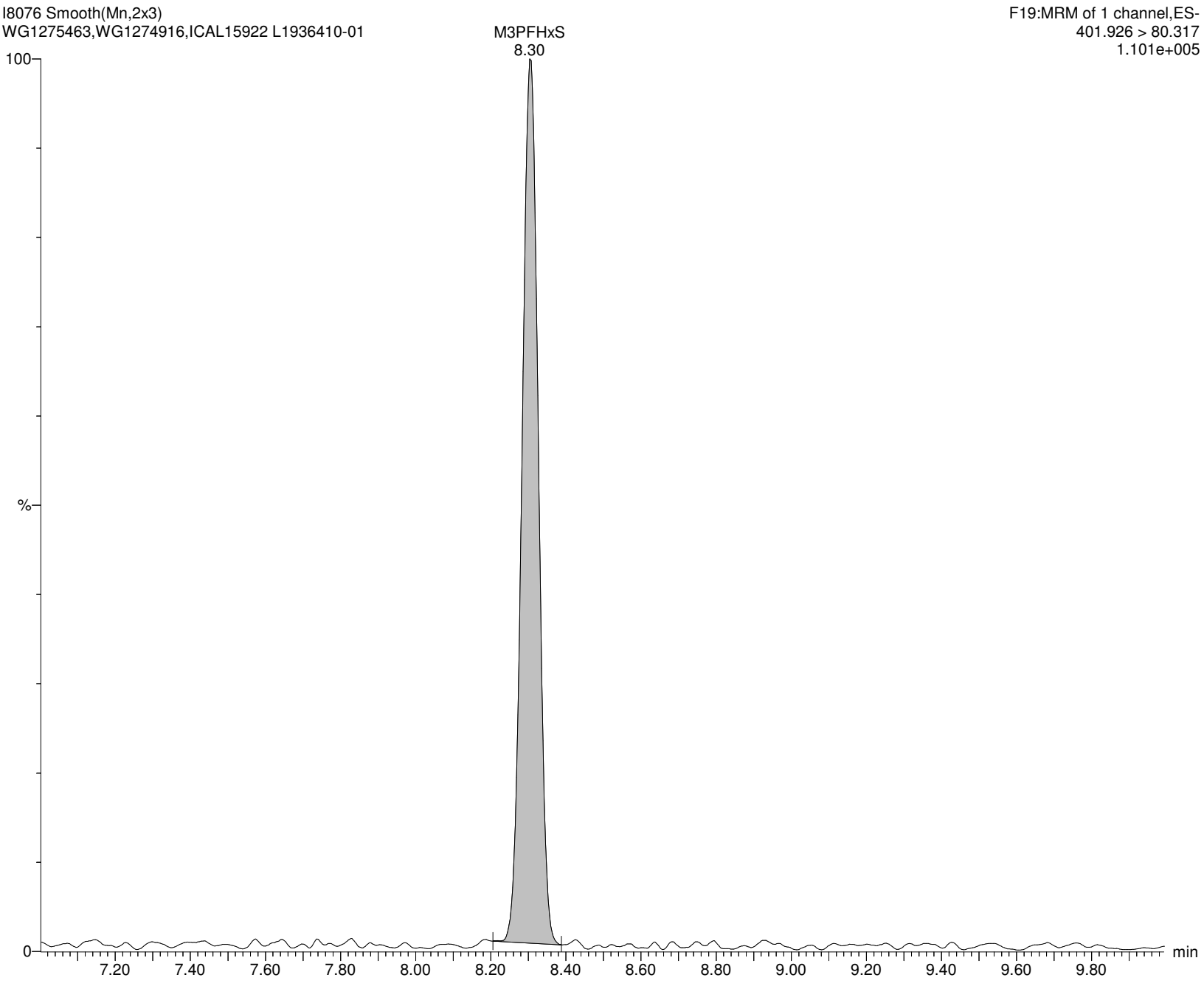


all concentration units in (ng/mL)

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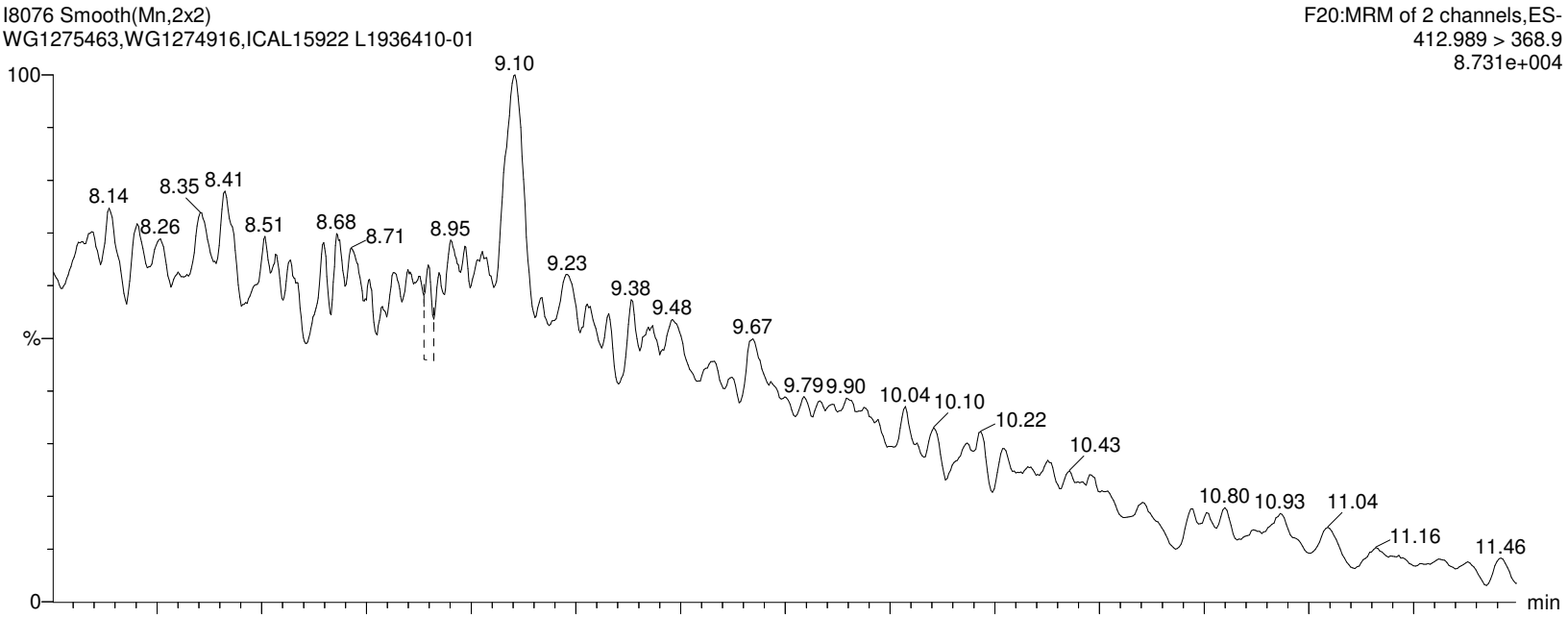


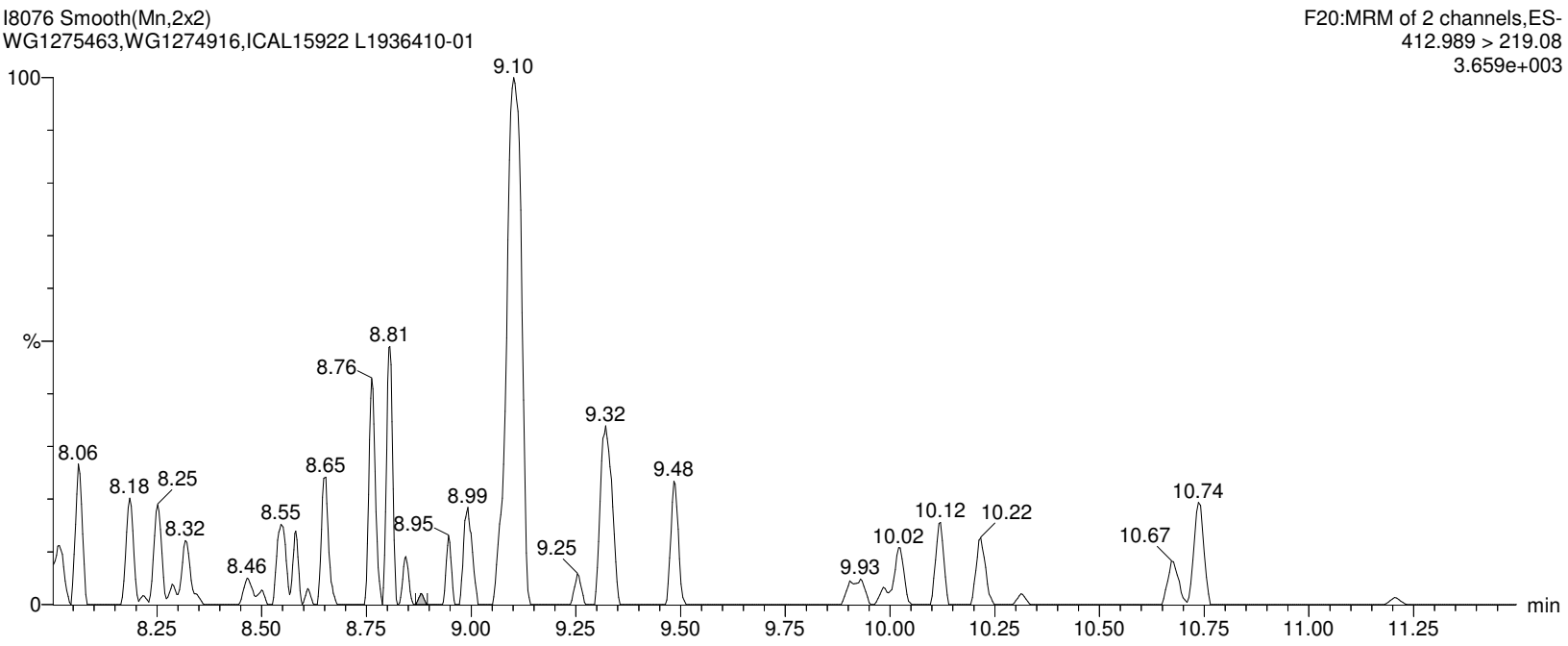
all concentration units in (ng/mL)

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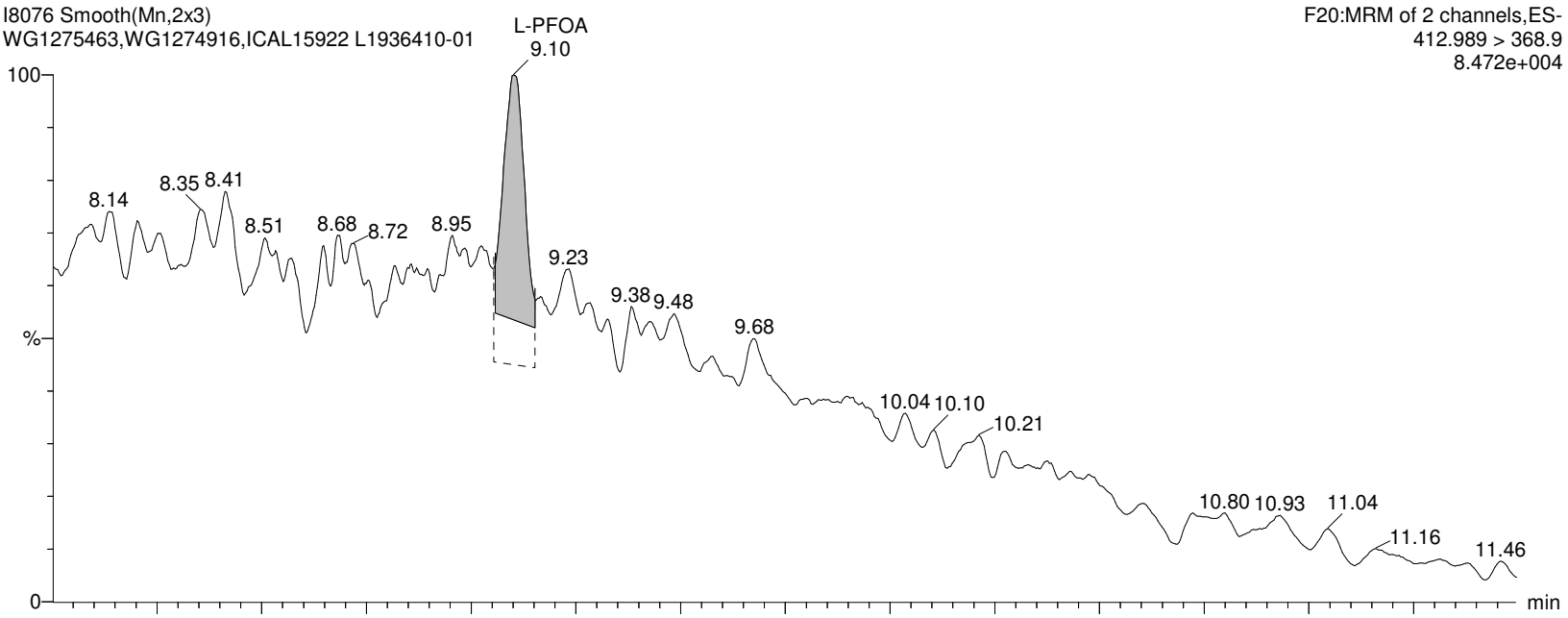


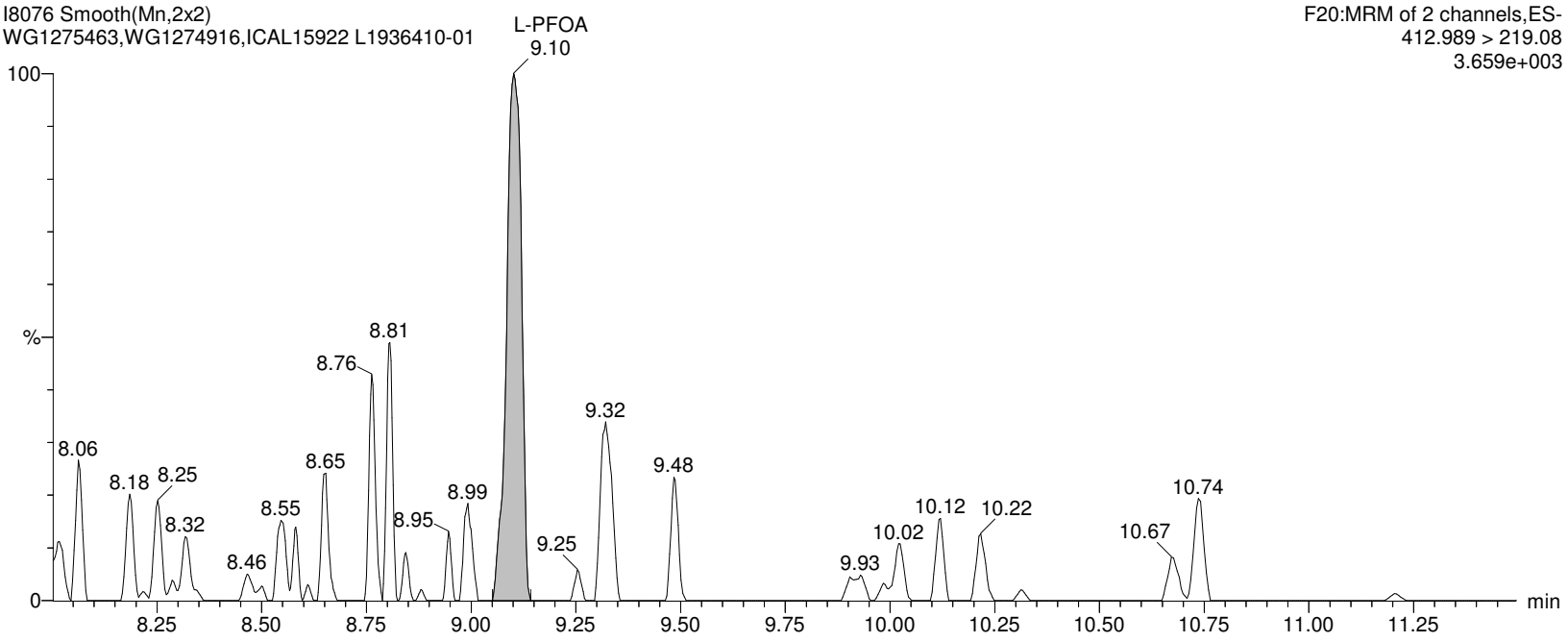
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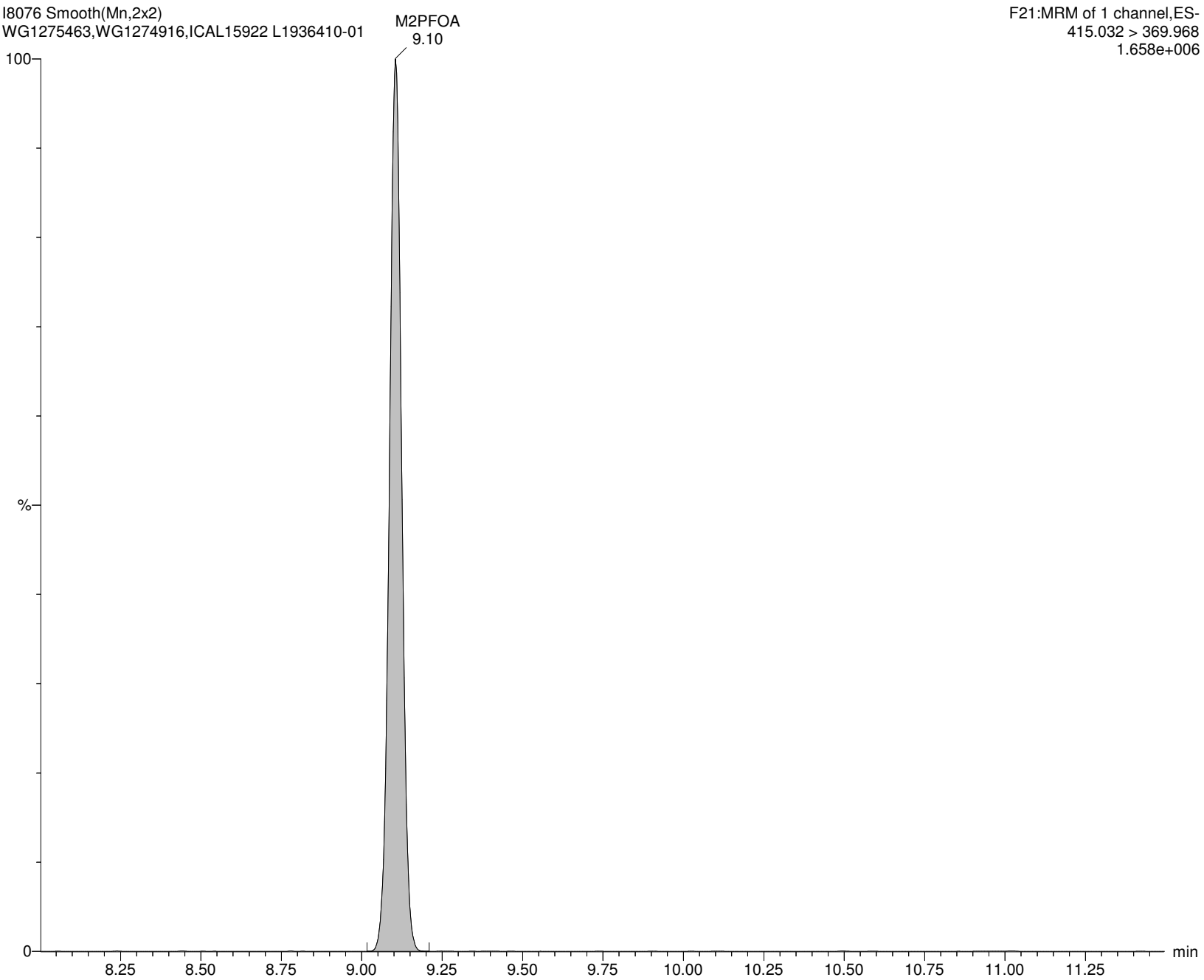


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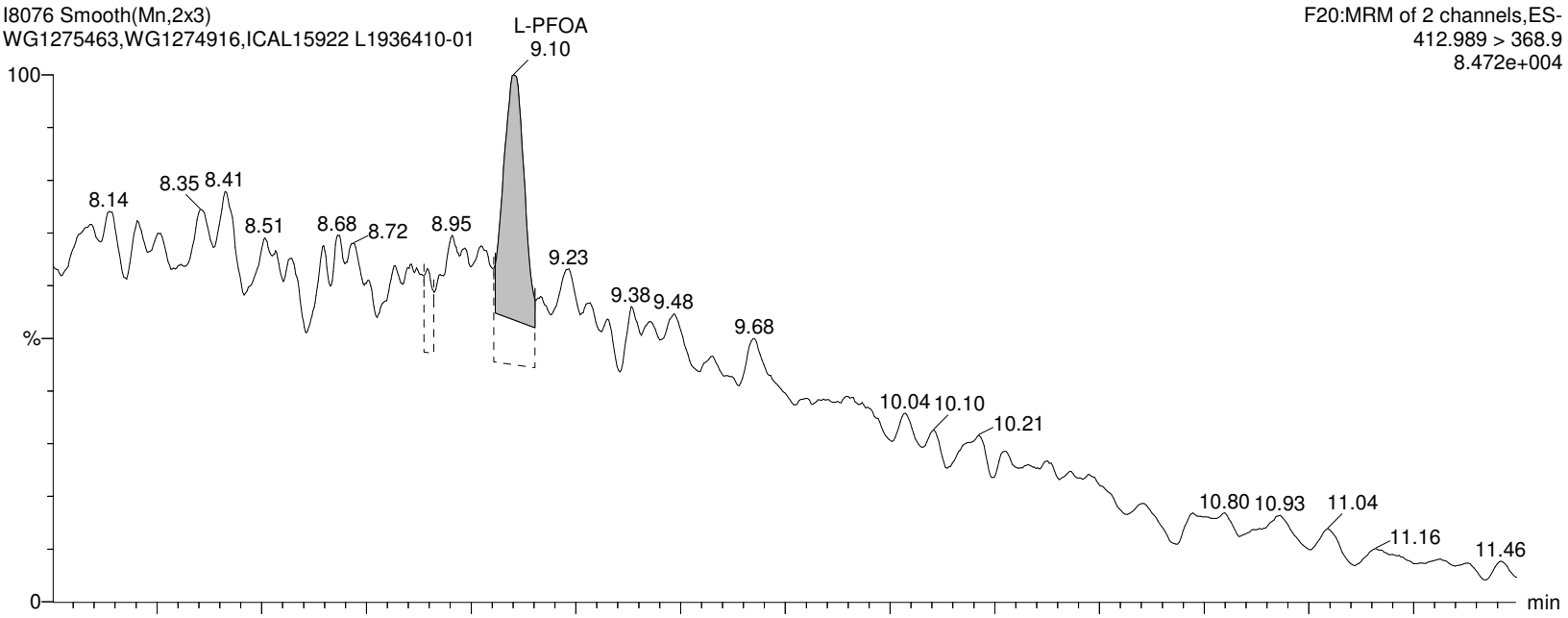


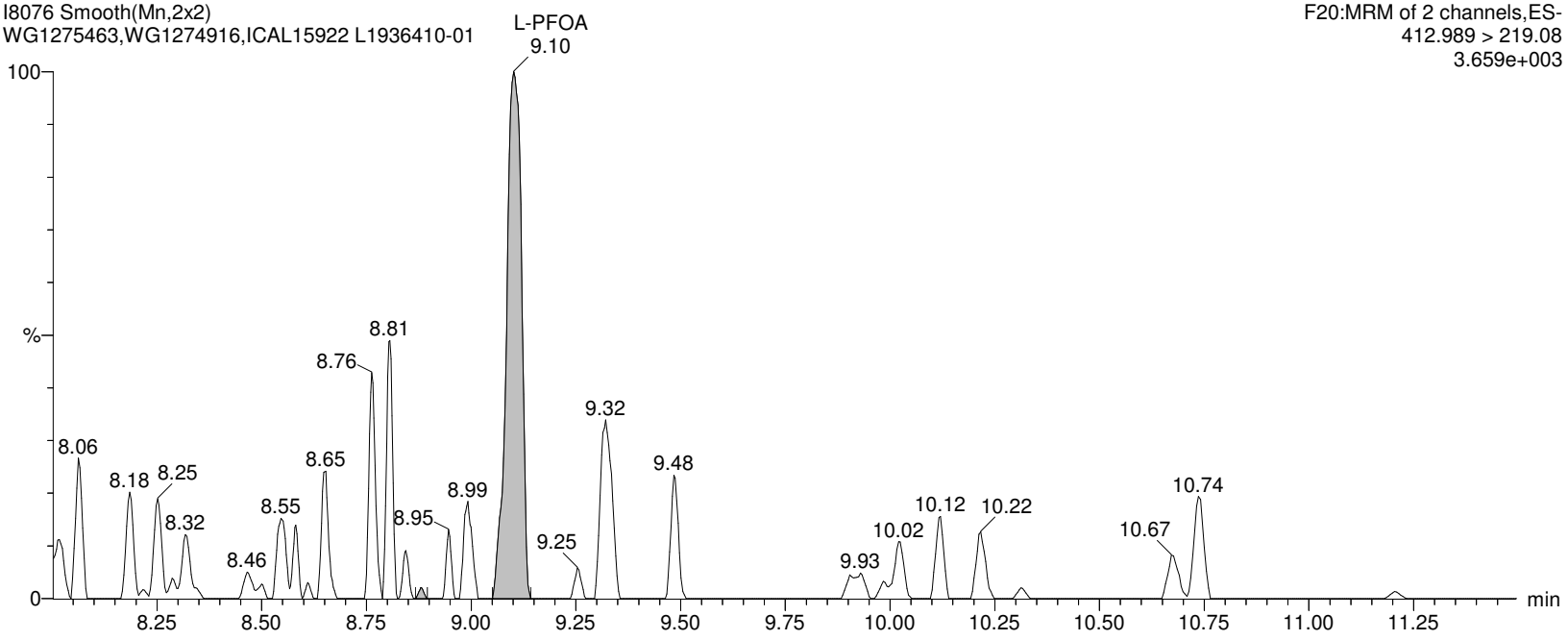
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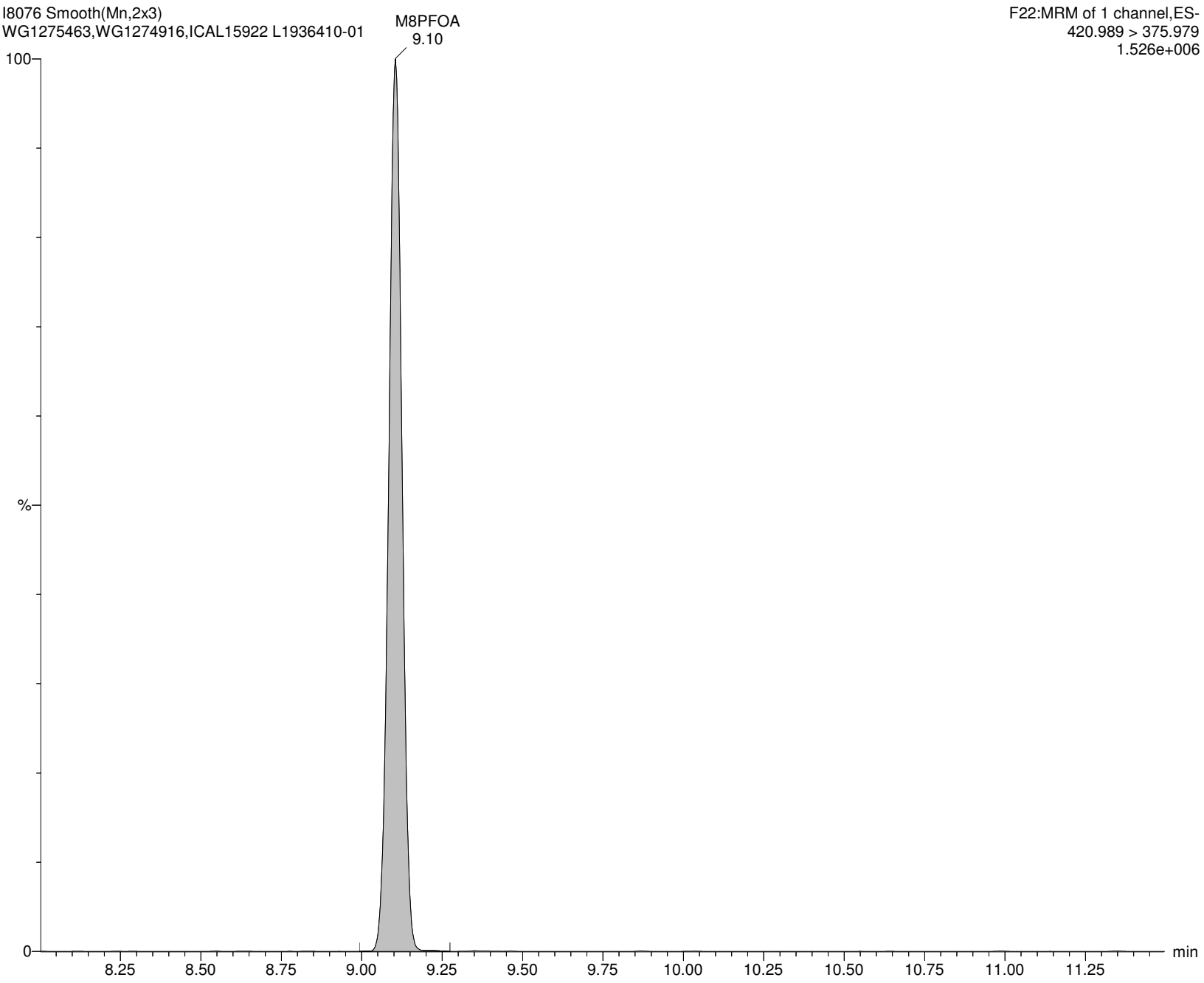


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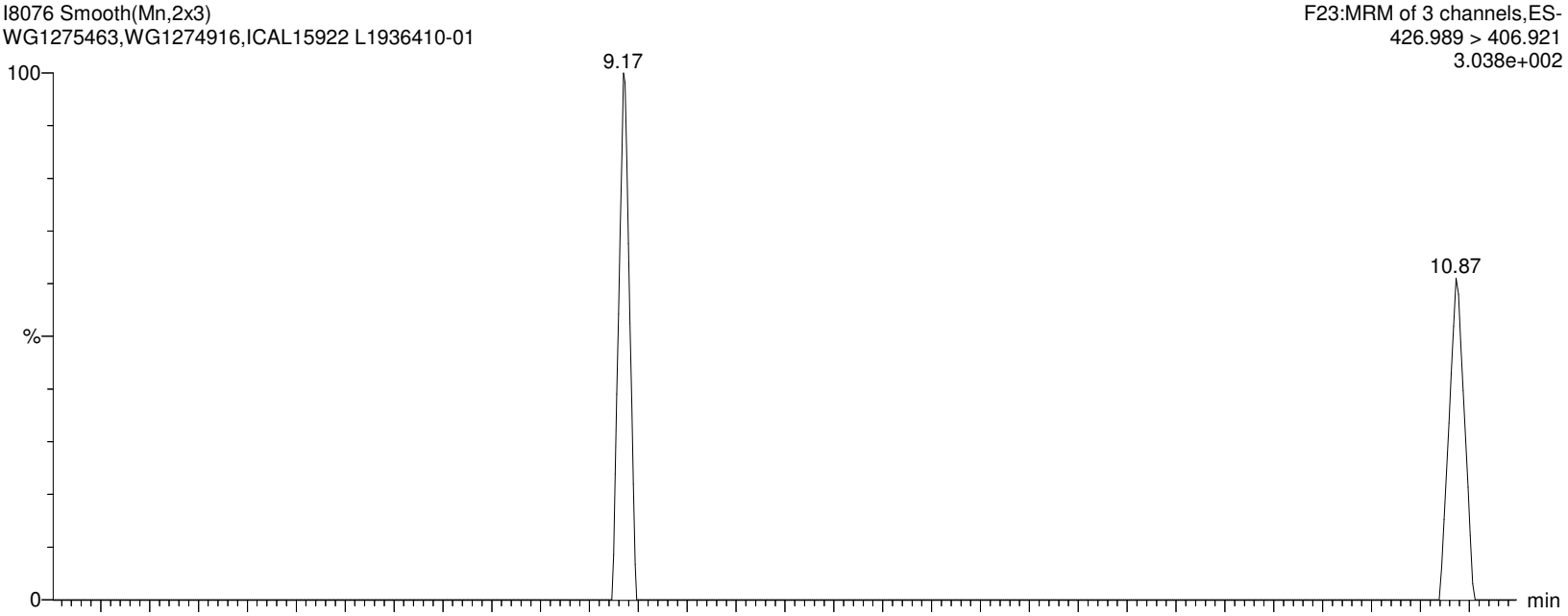


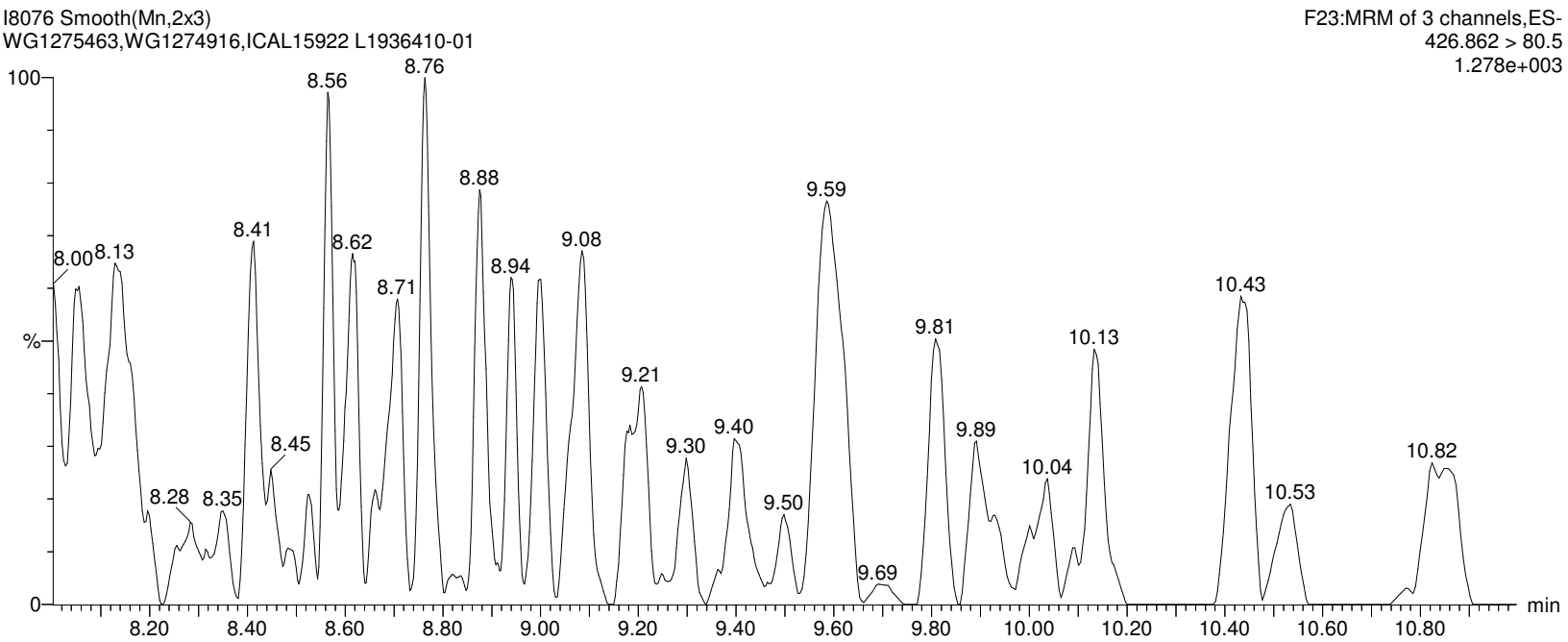
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6:2FTS



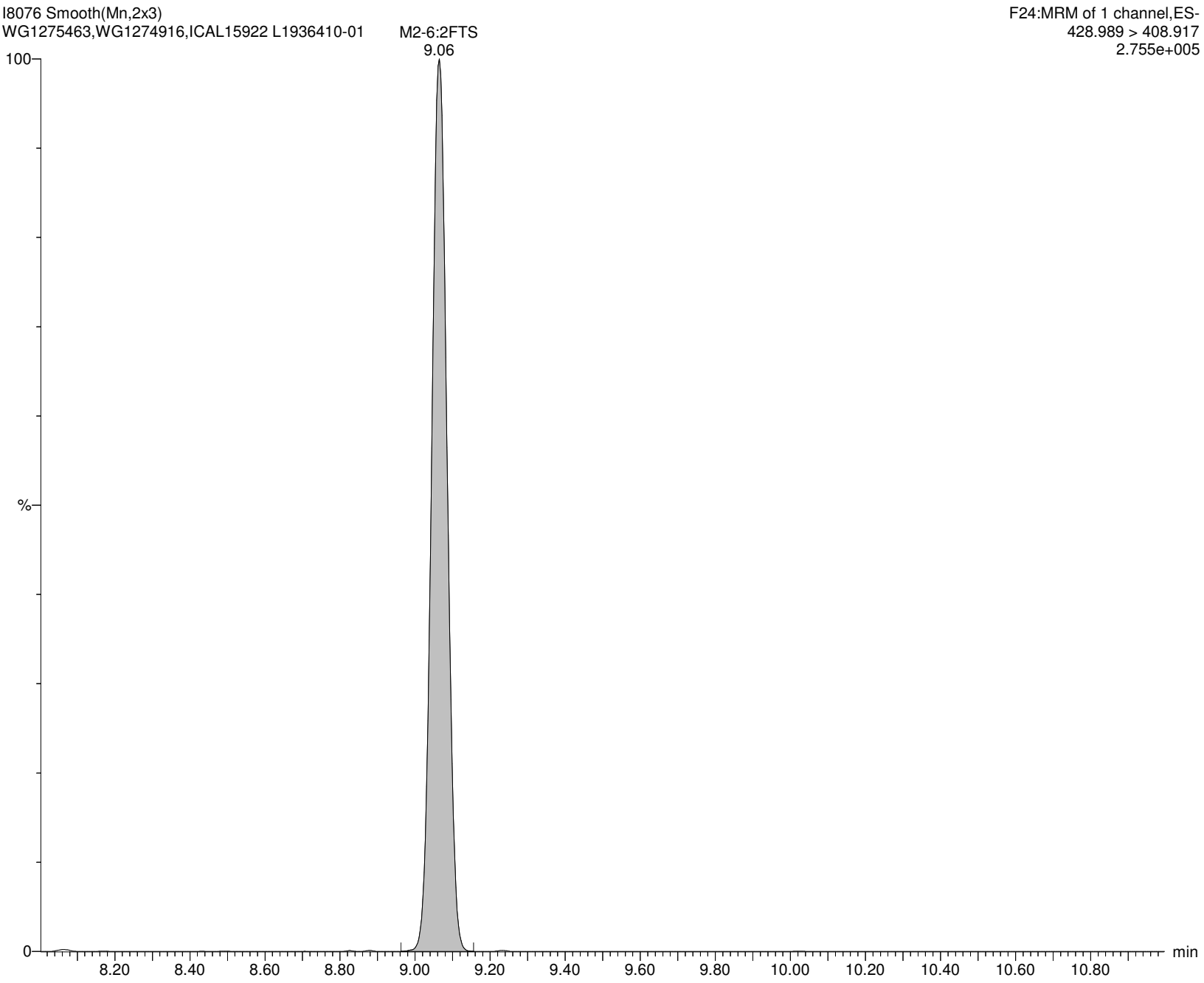


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M2-6:2FTS

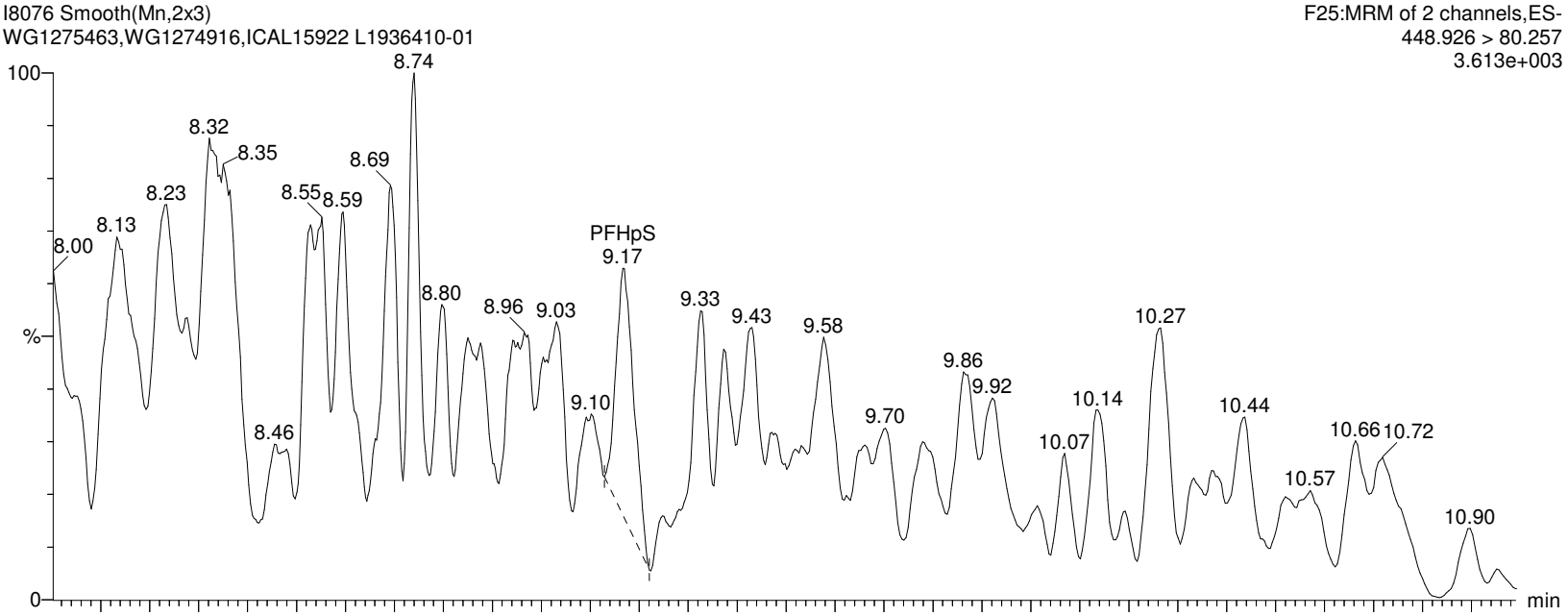


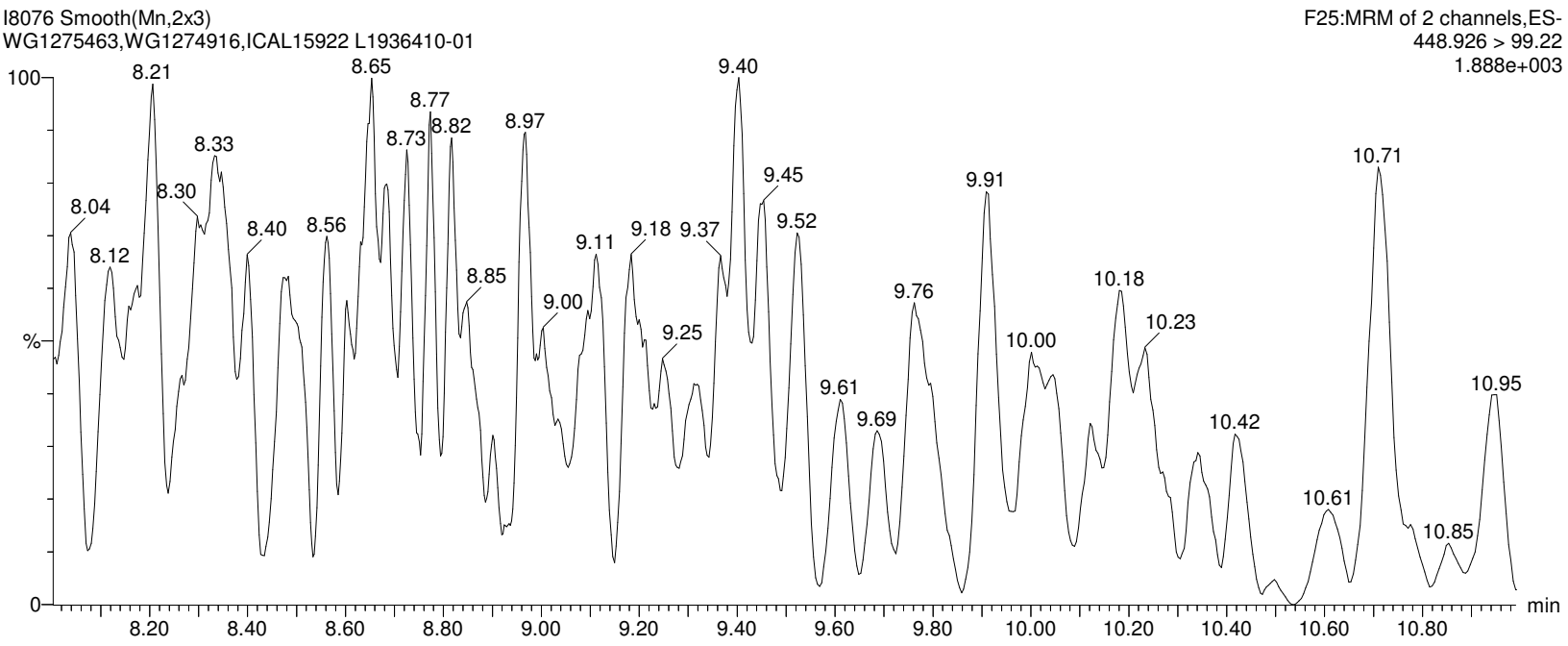
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\wg1275463b.qld
Last Altered: Friday, August 23, 2019 09:51:17 Eastern Daylight Time
Printed: Friday, August 23, 2019 09:51:29 Eastern Daylight Time

Name: I8076
ID: L1936410-01
Date: 22-Aug-2019
Time: 14:41:35
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:C,6
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
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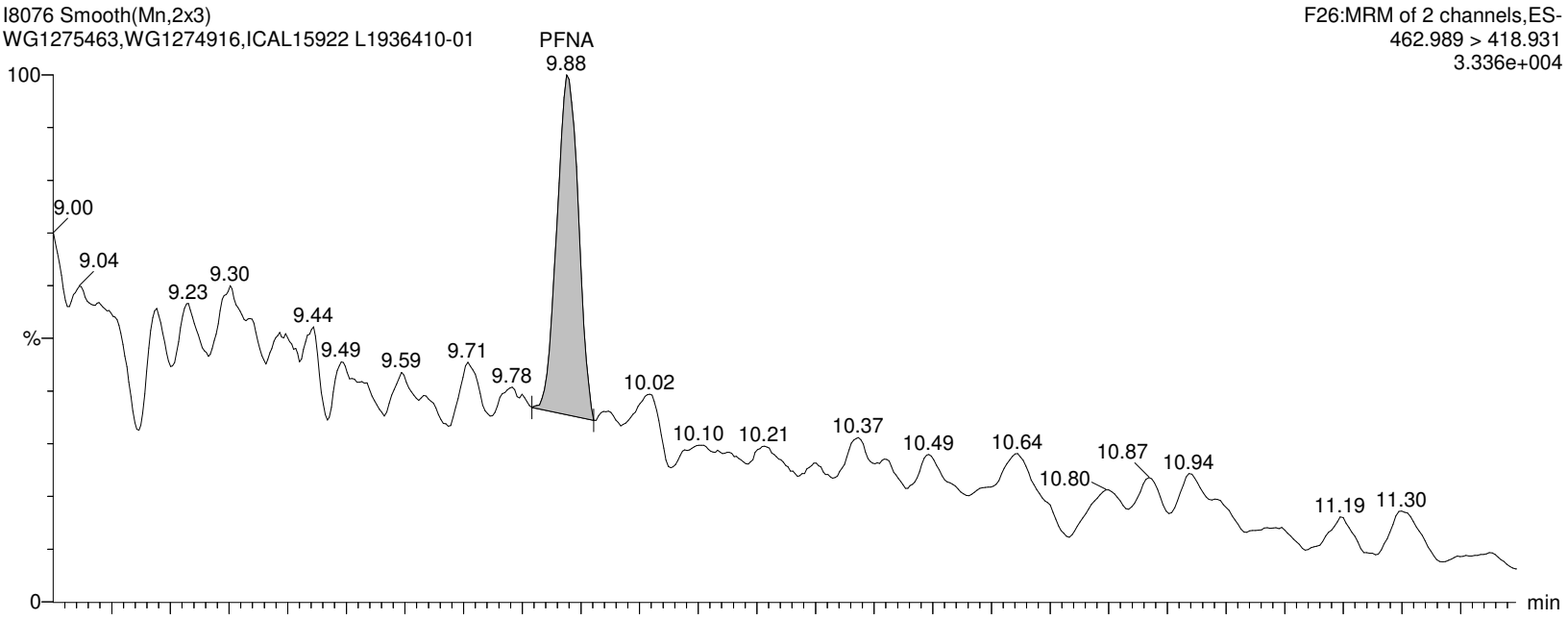


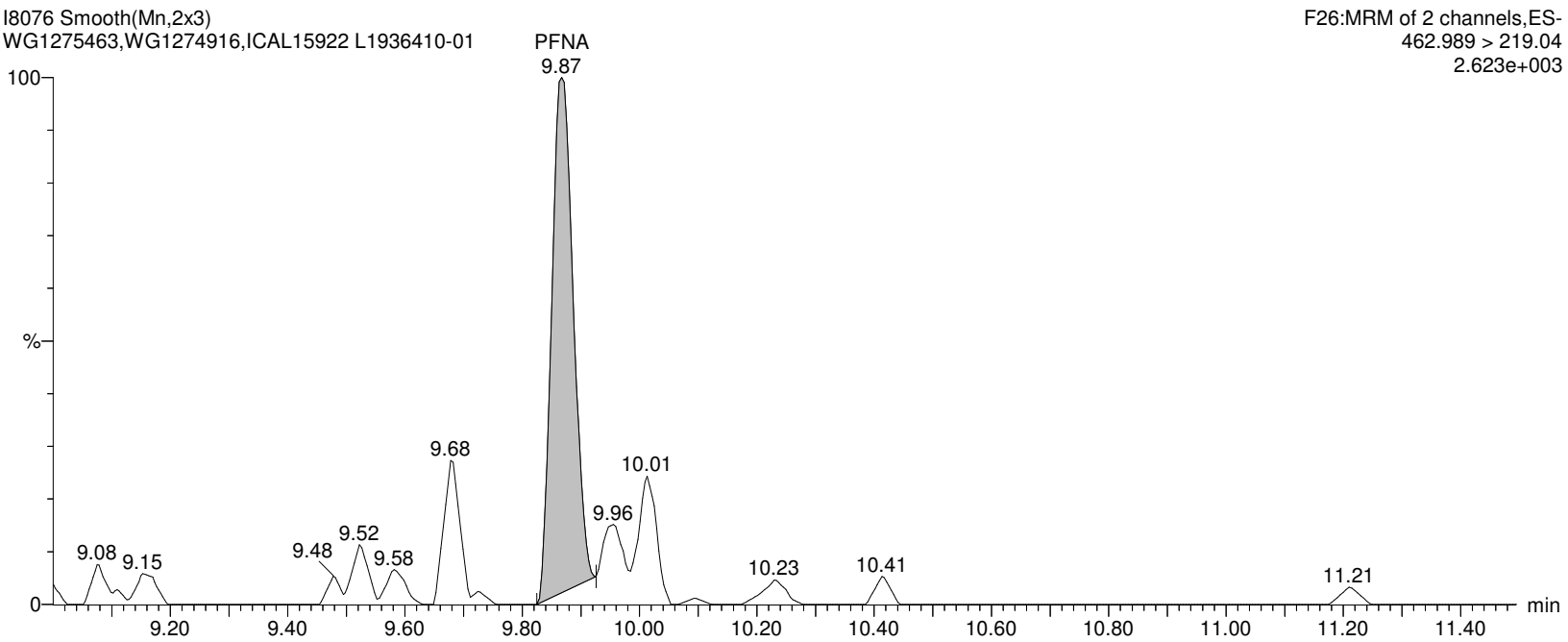
all concentration units in (ng/mL)

Alpha Analytical Inc.
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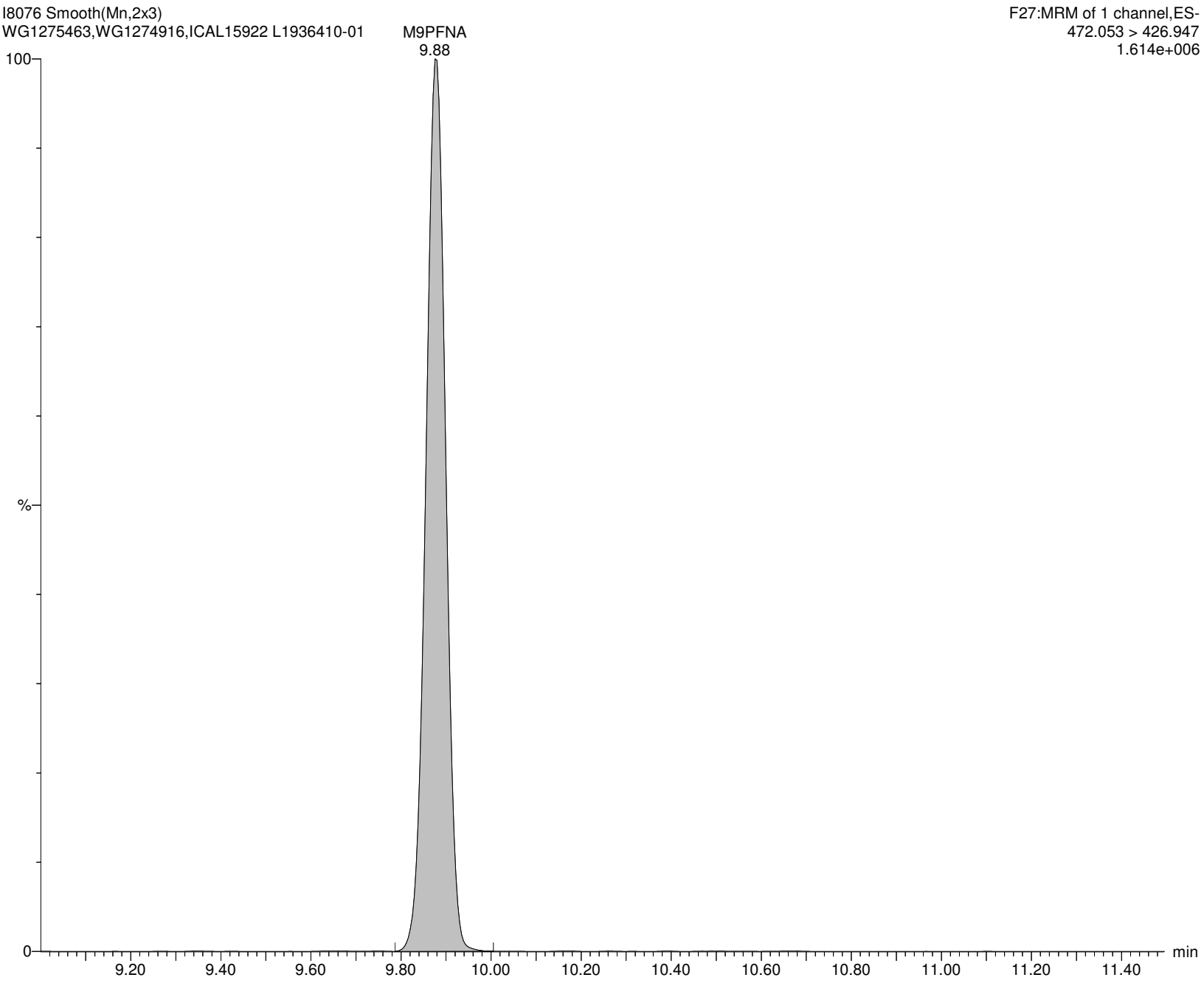


all concentration units in (ng/mL)

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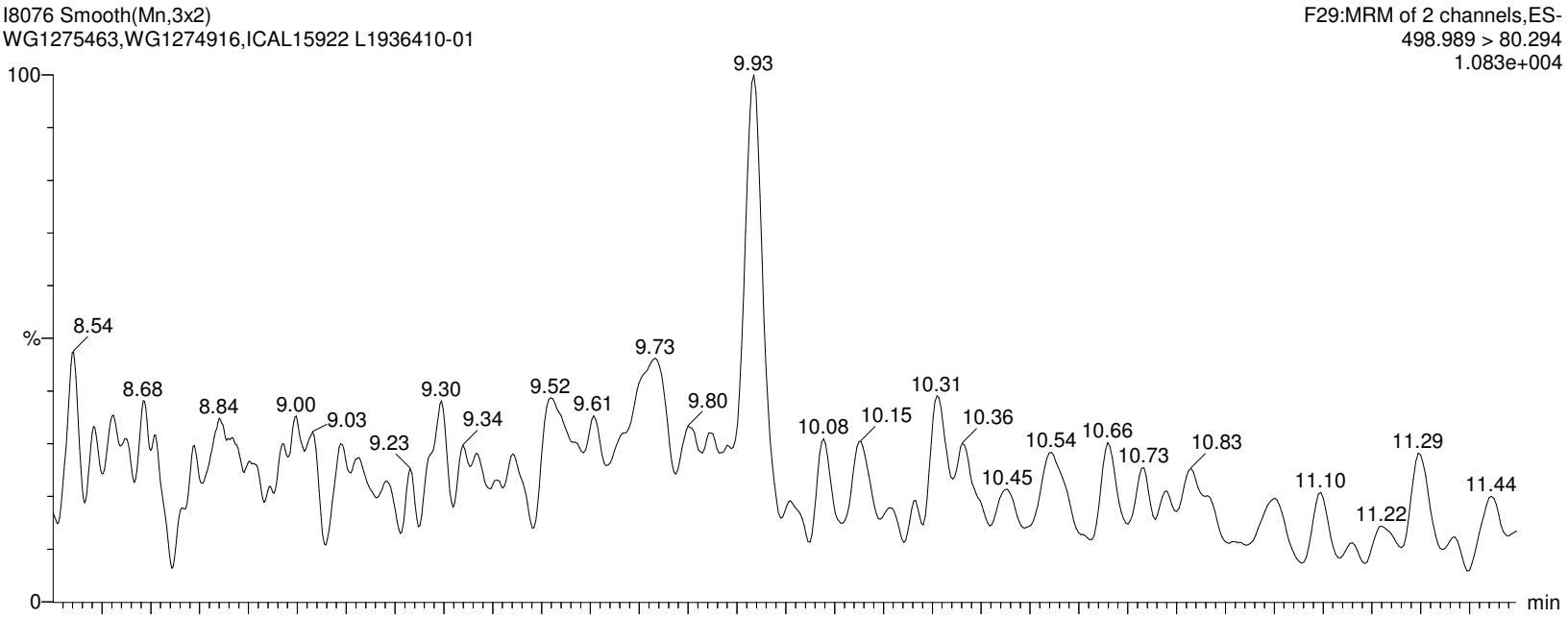


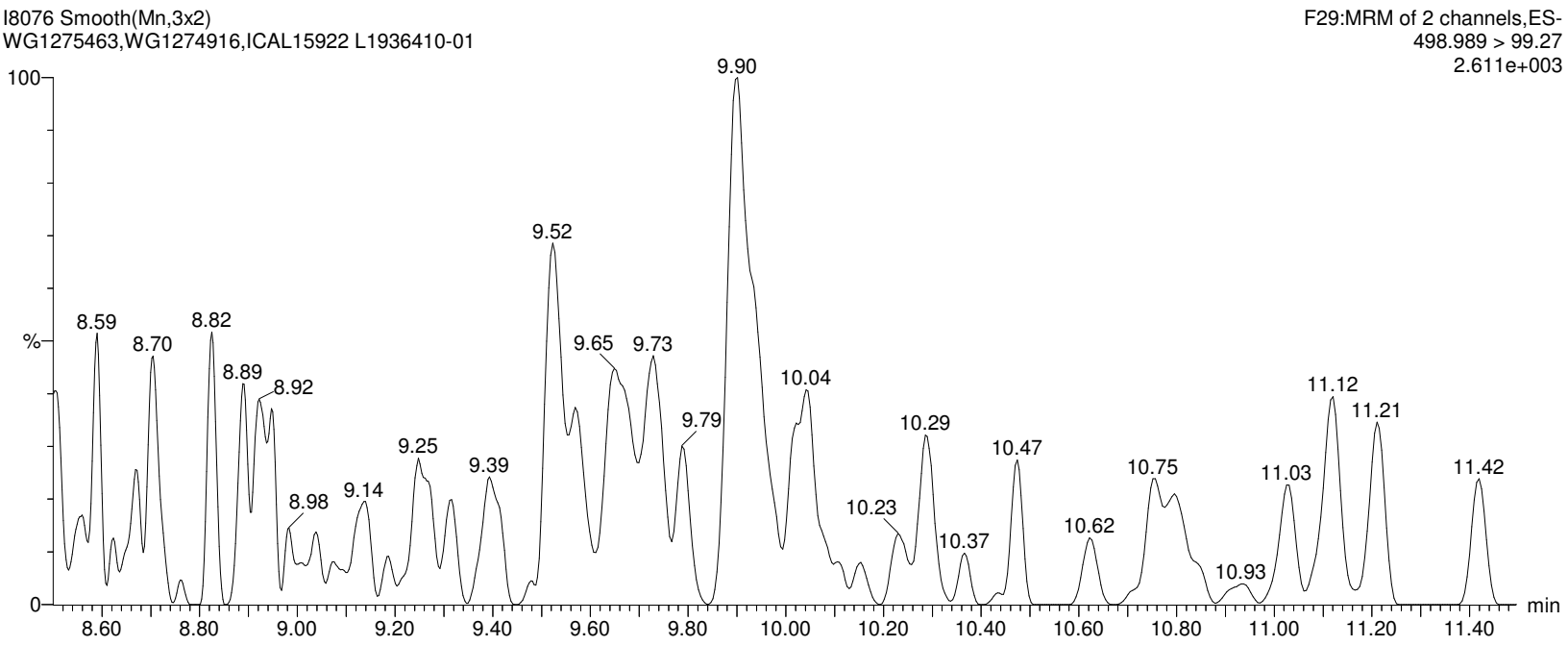
all concentration units in (ng/mL)

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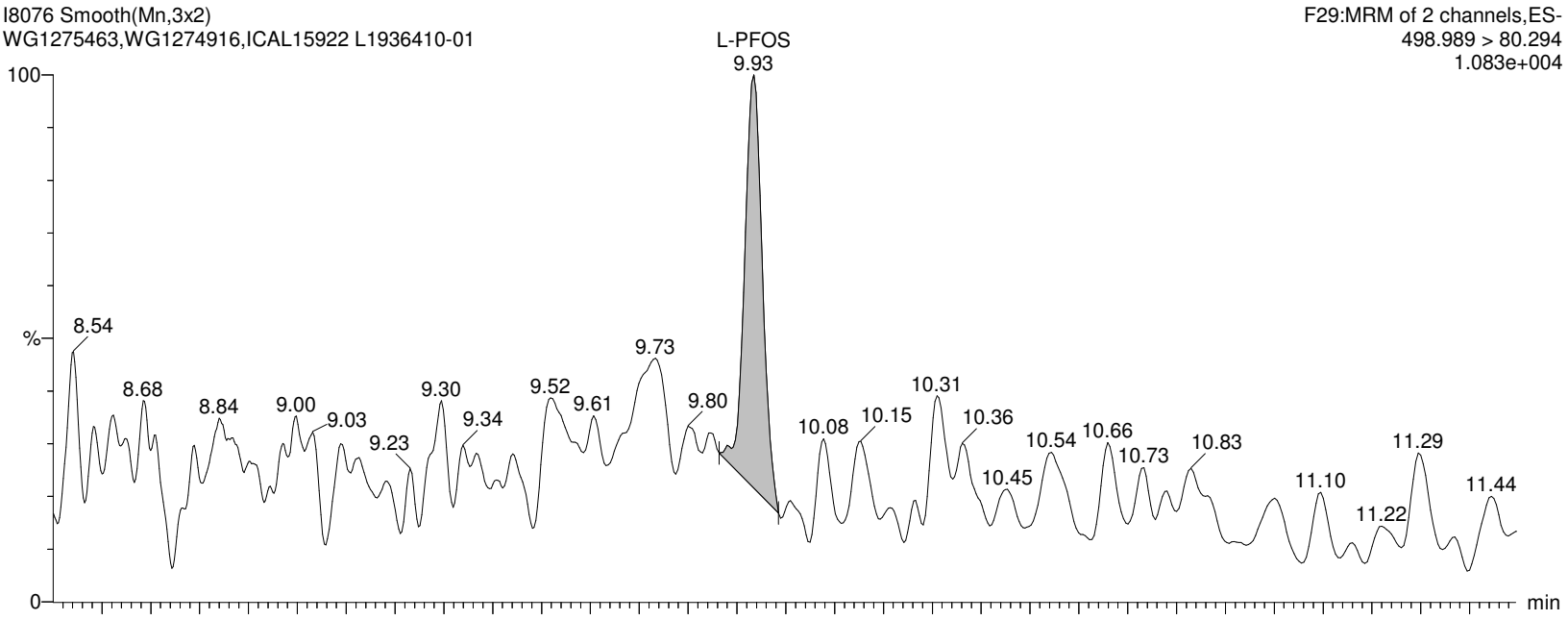


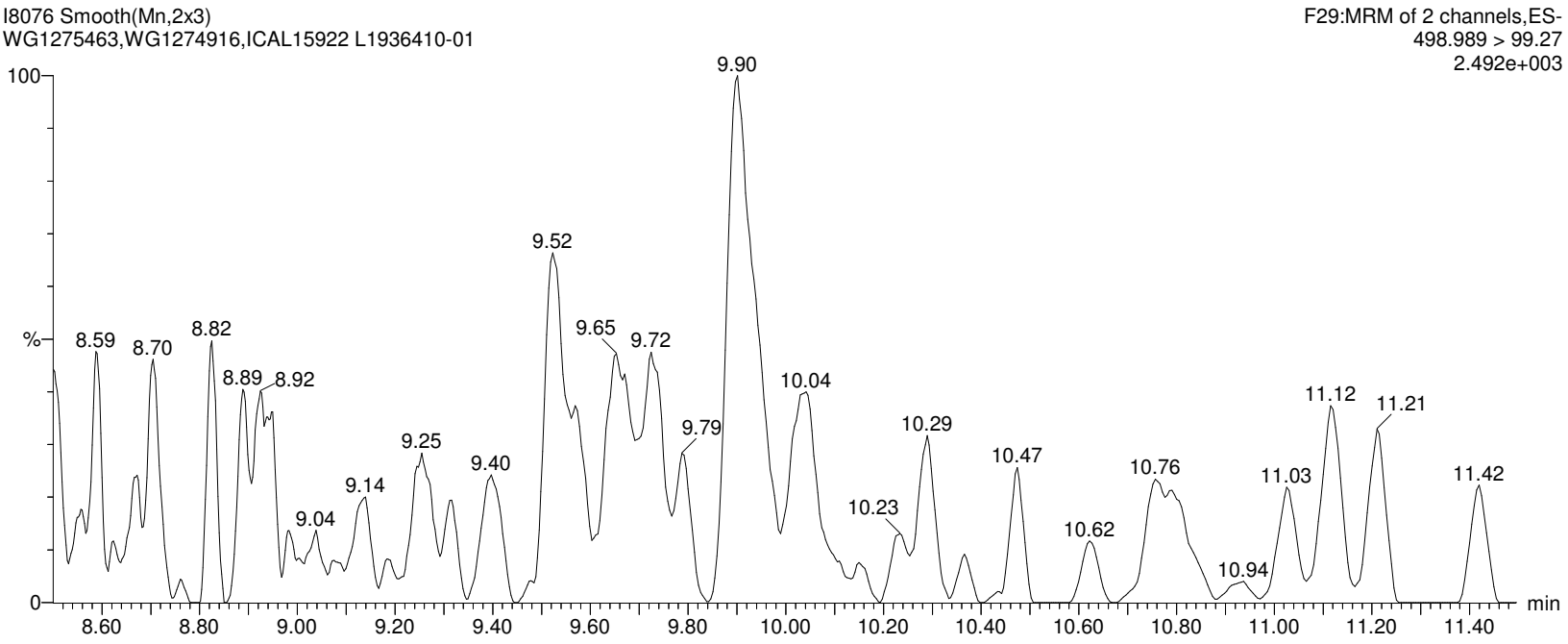
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L-PFOS



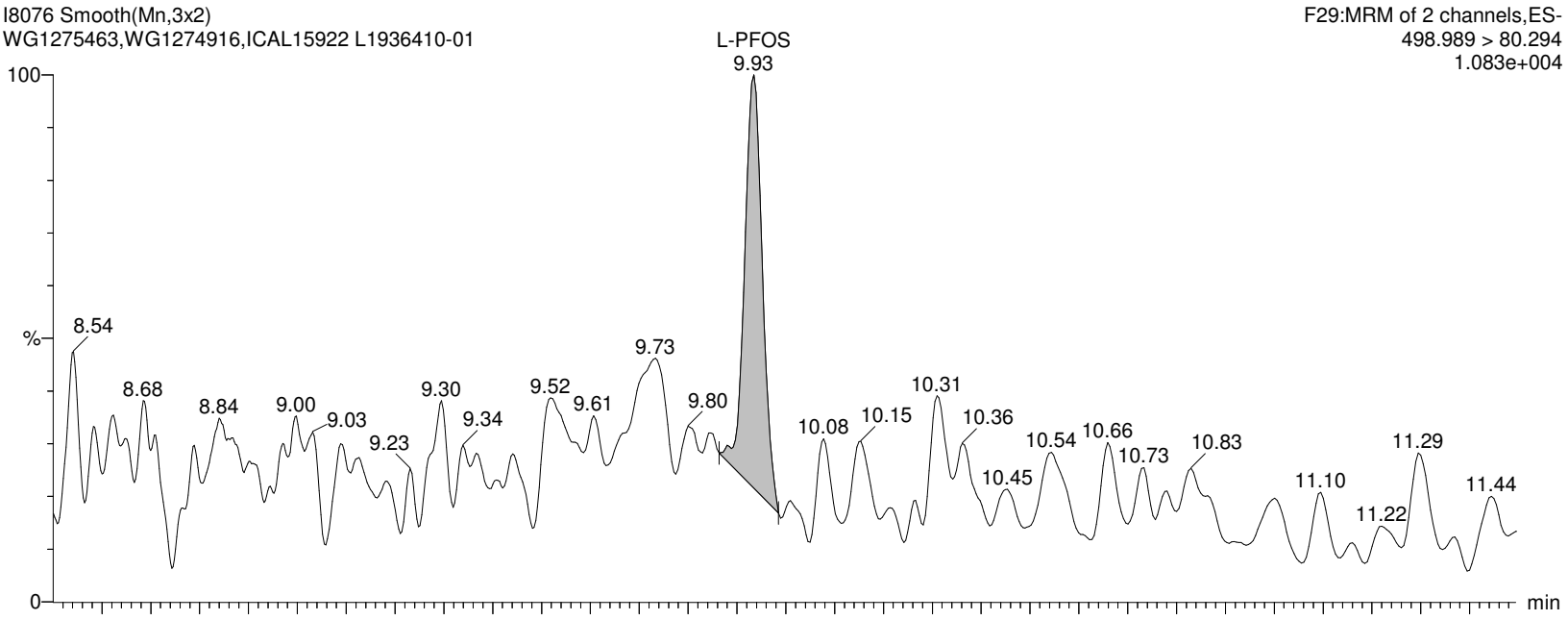


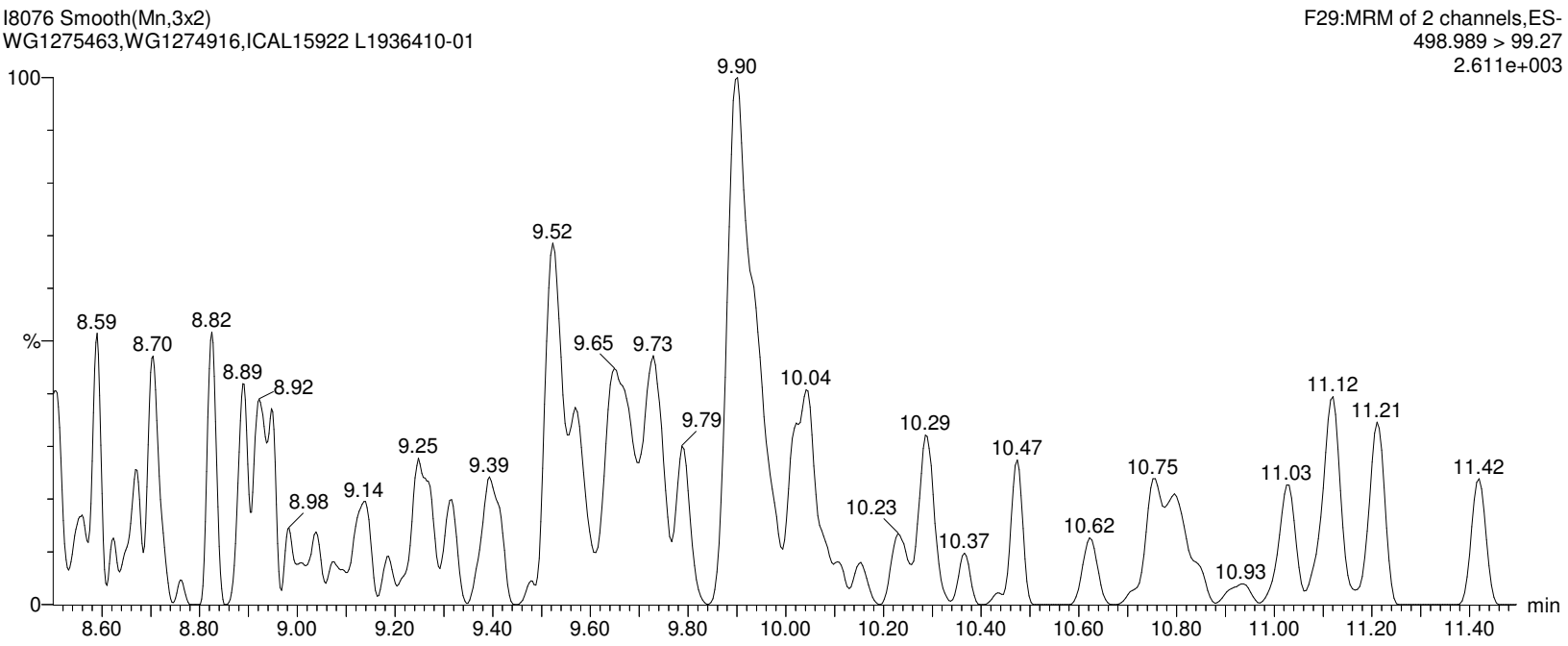
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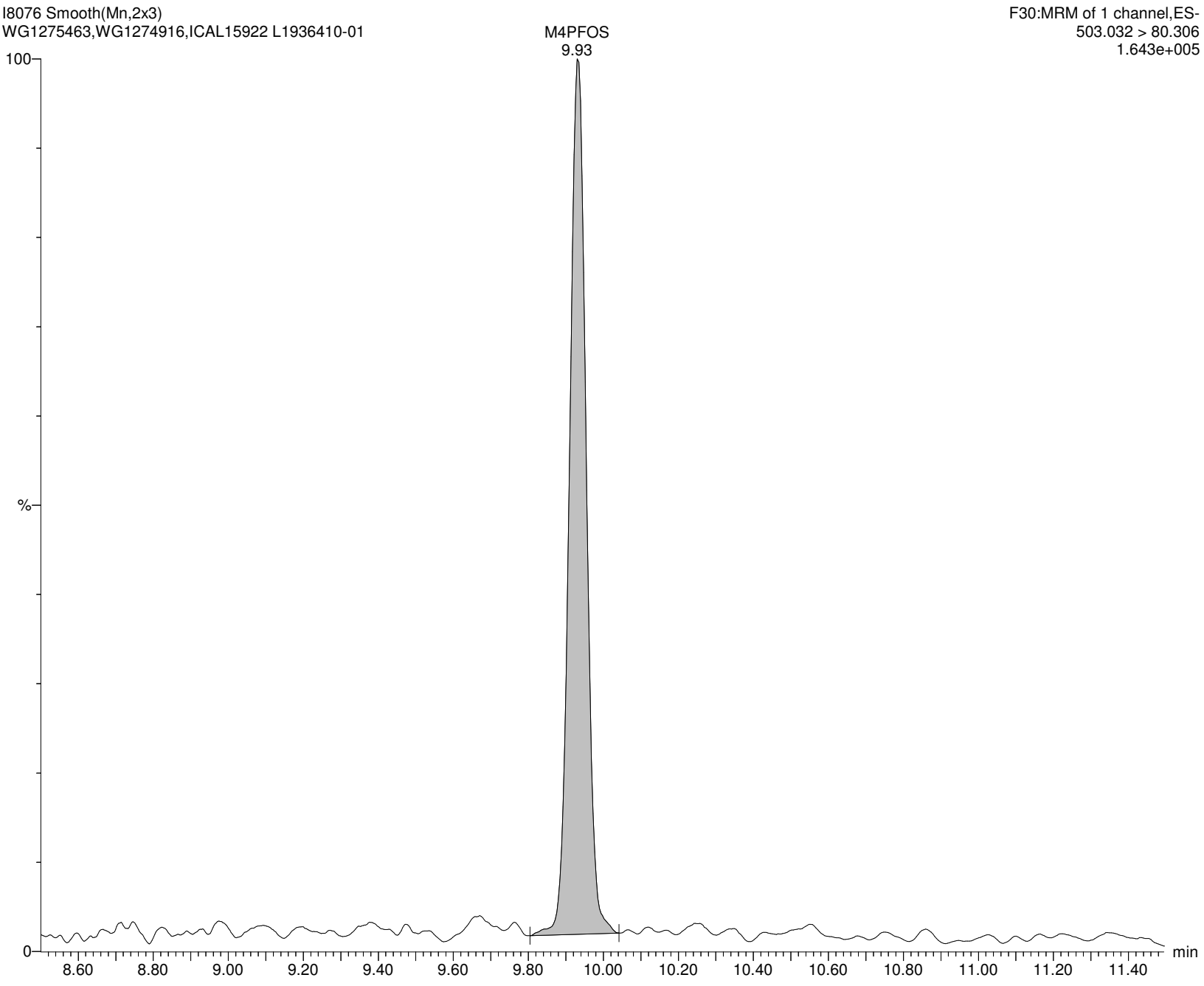


all concentration units in (ng/mL)

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Vial: 1:C,6
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M4PFOS

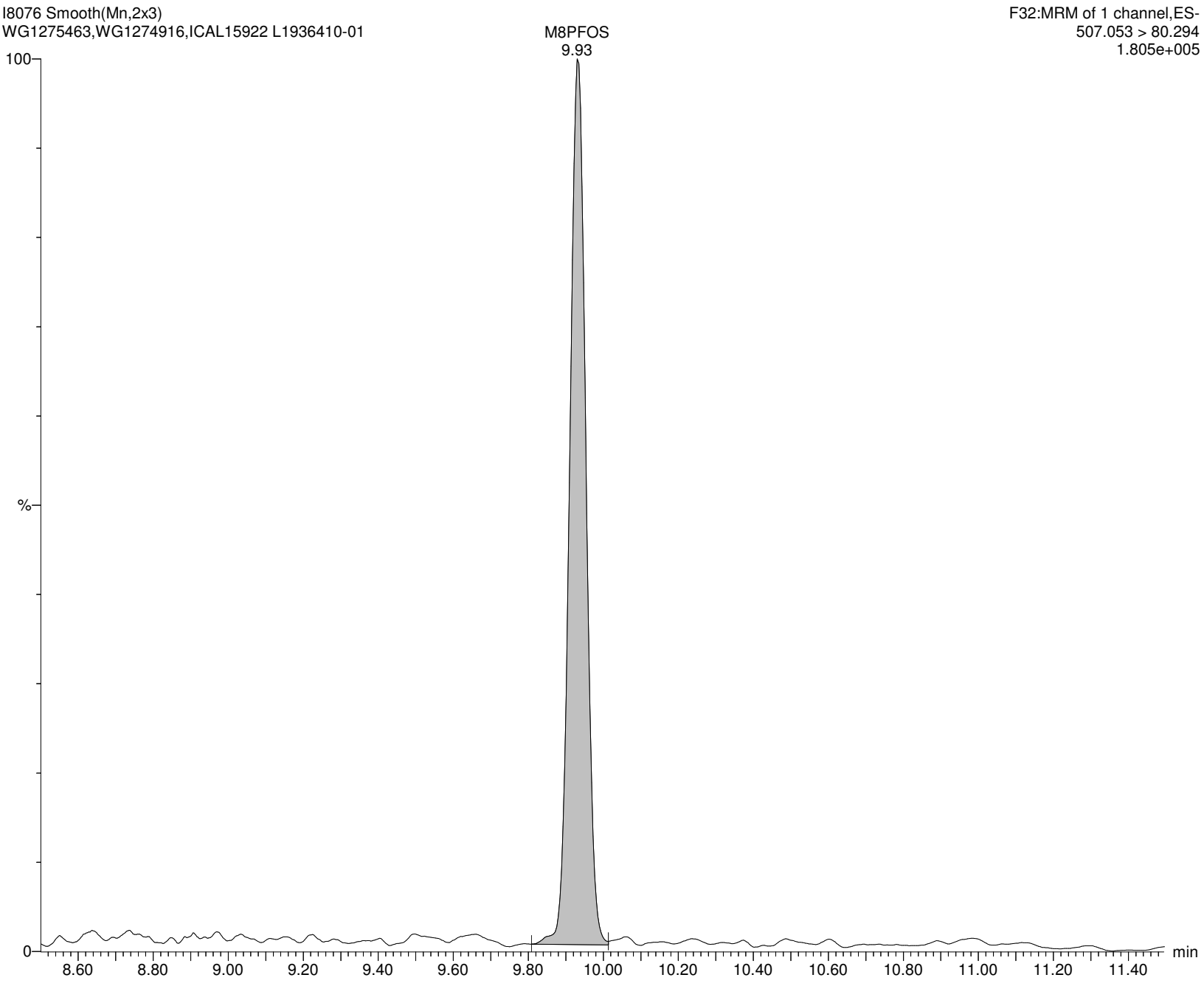


all concentration units in (ng/mL)

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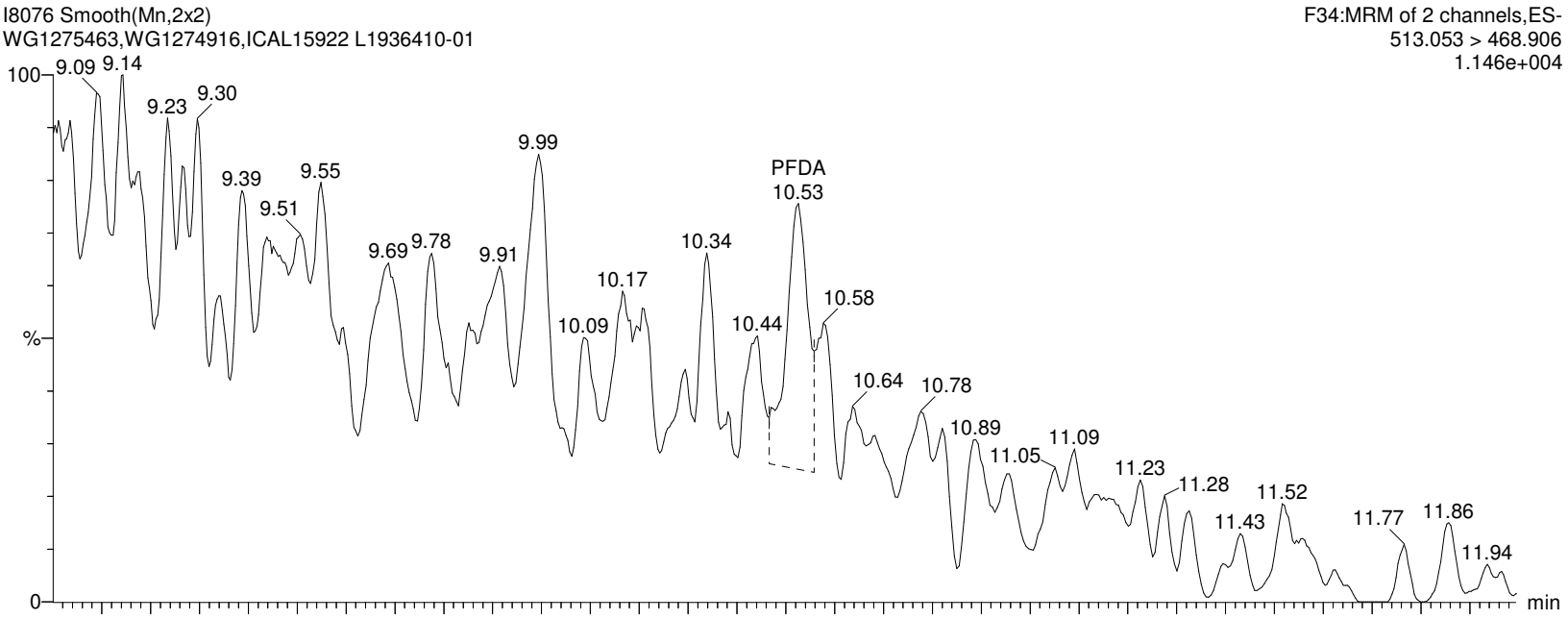


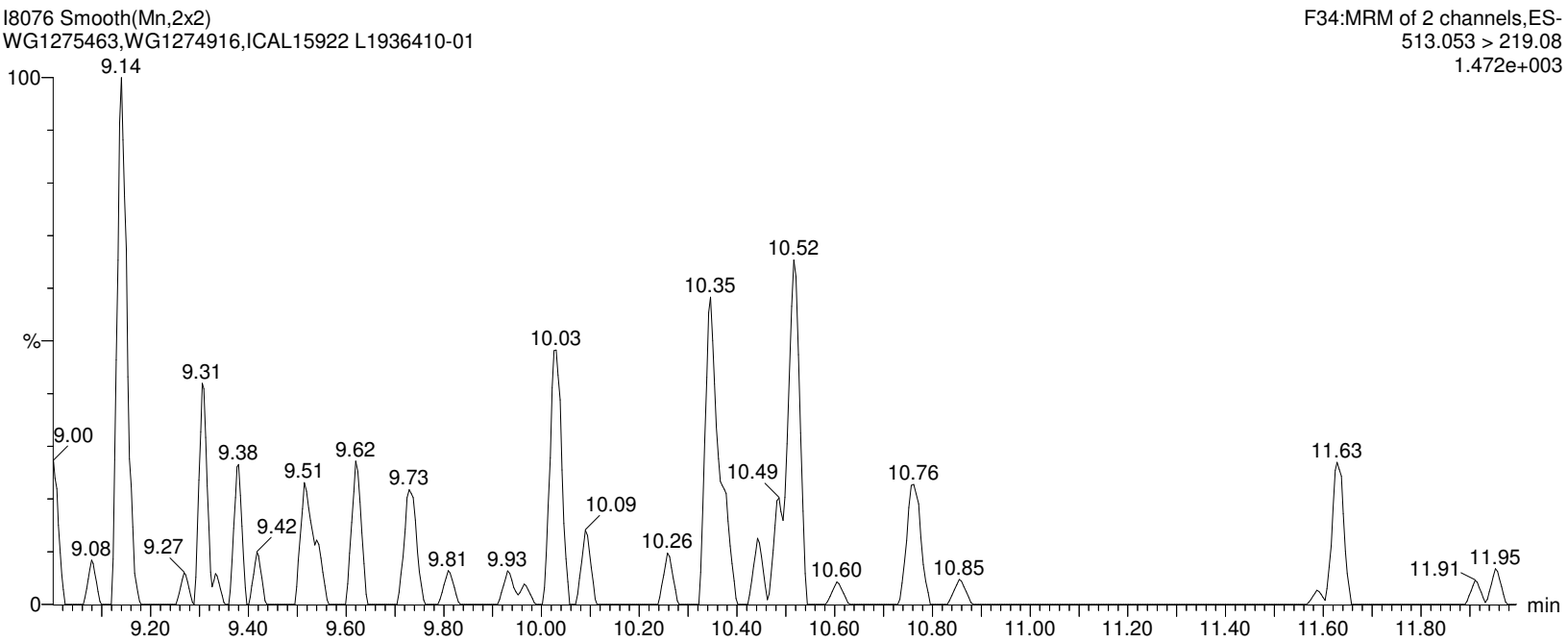
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\wg1275463b.qld
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PFDA



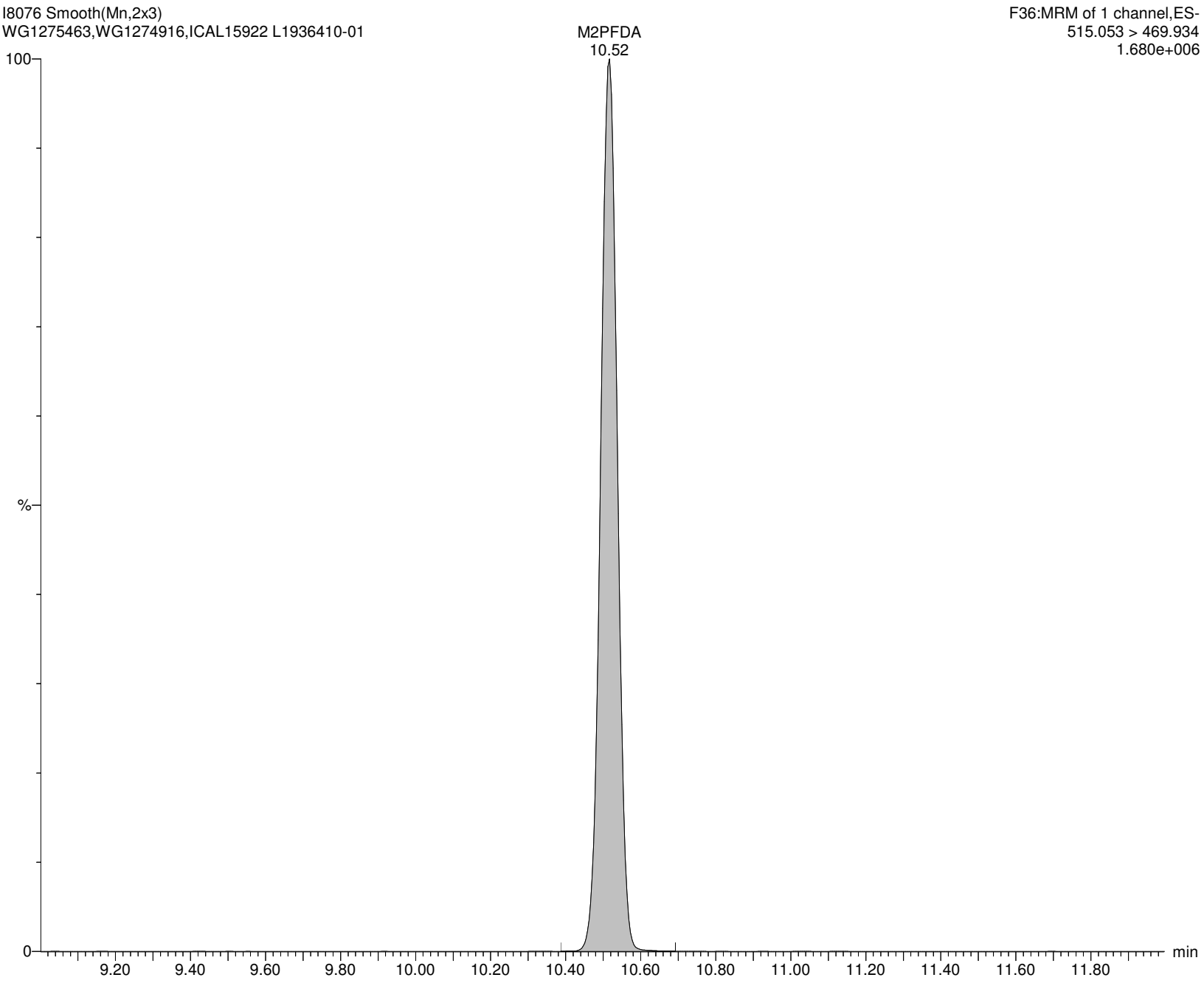


all concentration units in (ng/mL)

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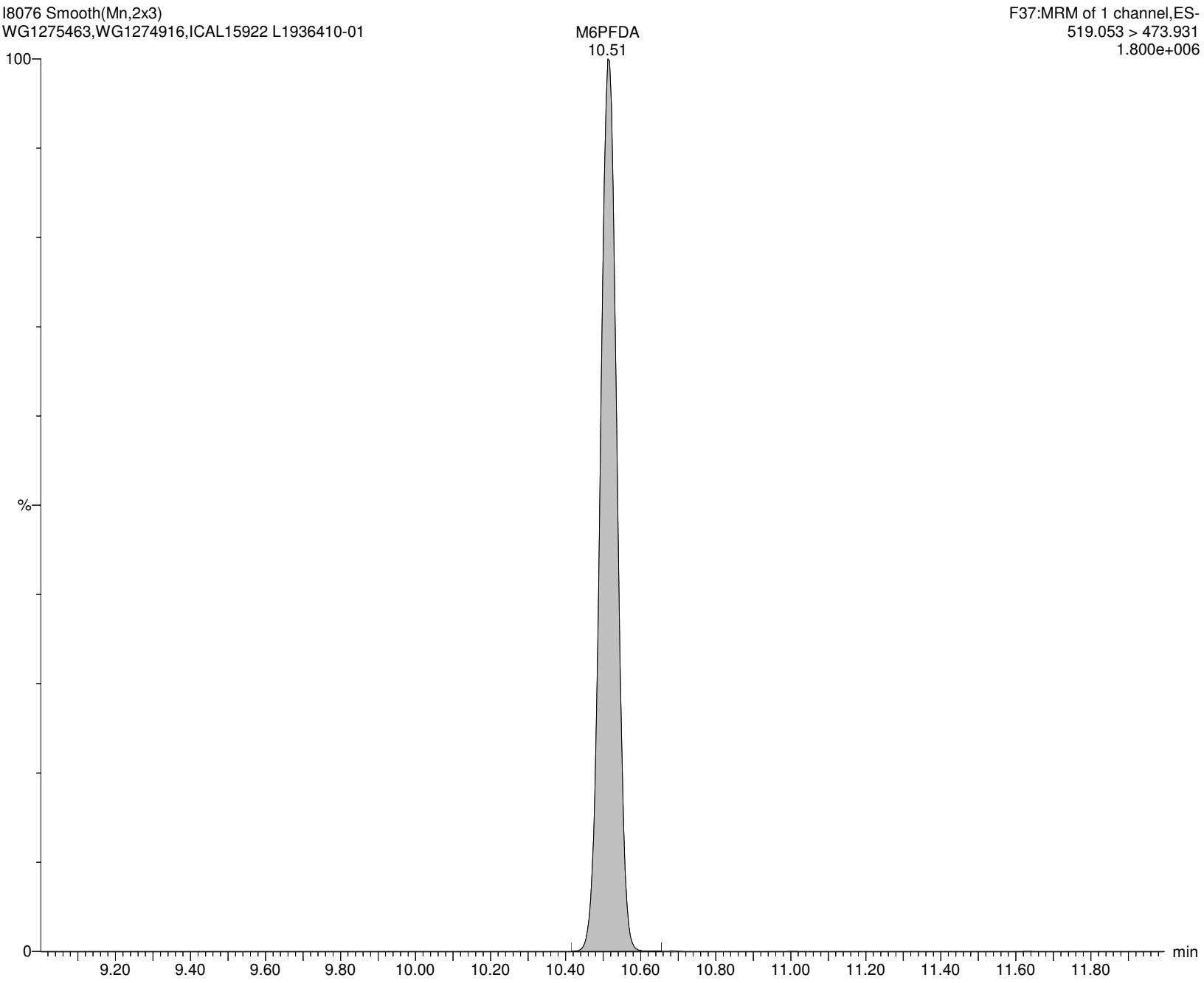


all concentration units in (ng/mL)

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MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

M6PFDA



all concentration units in (ng/mL)

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-

8:2FTS

I8076 Smooth(Mn,2x2)
WG1275463,WG1274916,ICAL15922 L1936410-01

F39:MRM of 2 channels,ES-
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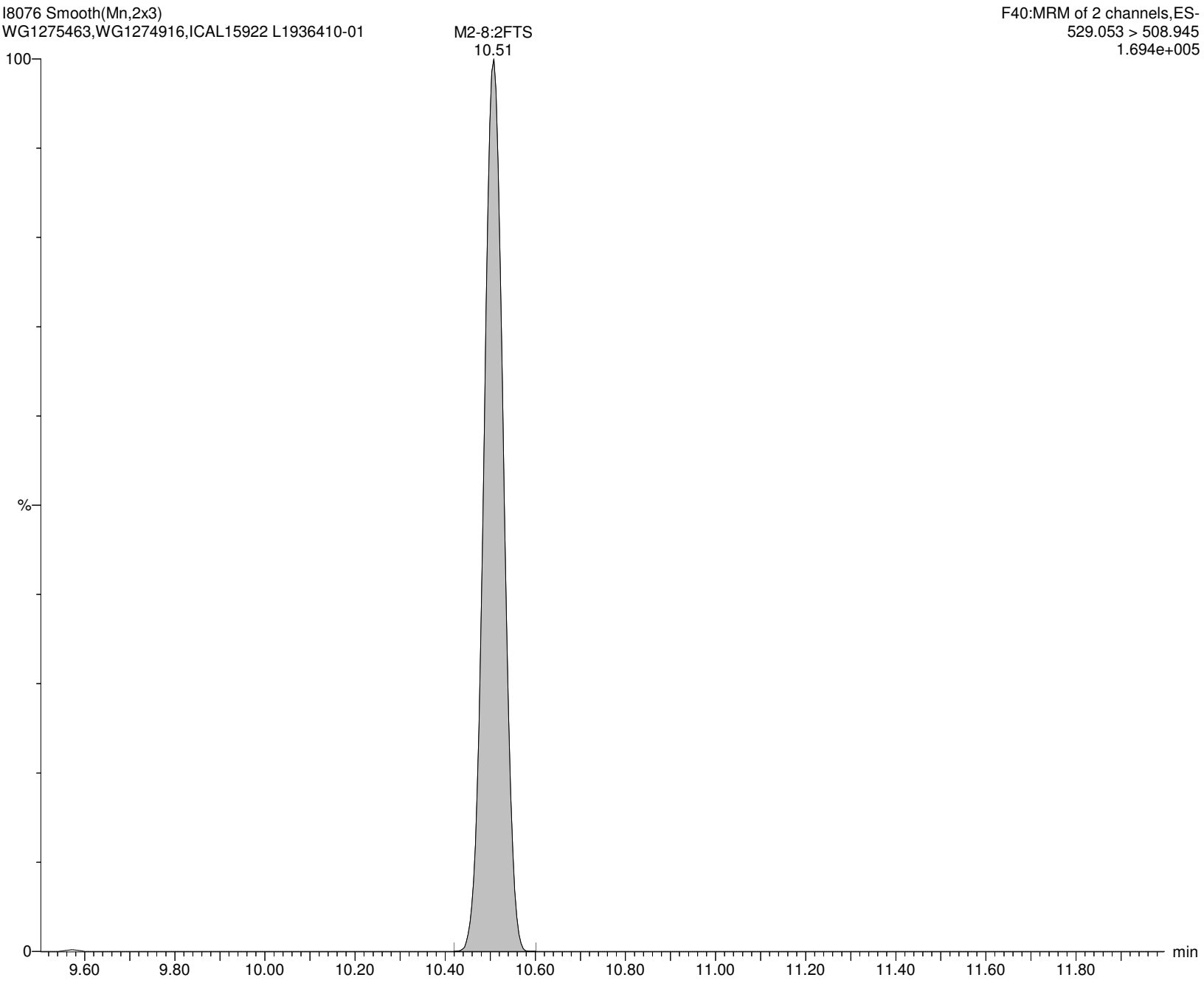


all concentration units in (ng/mL)

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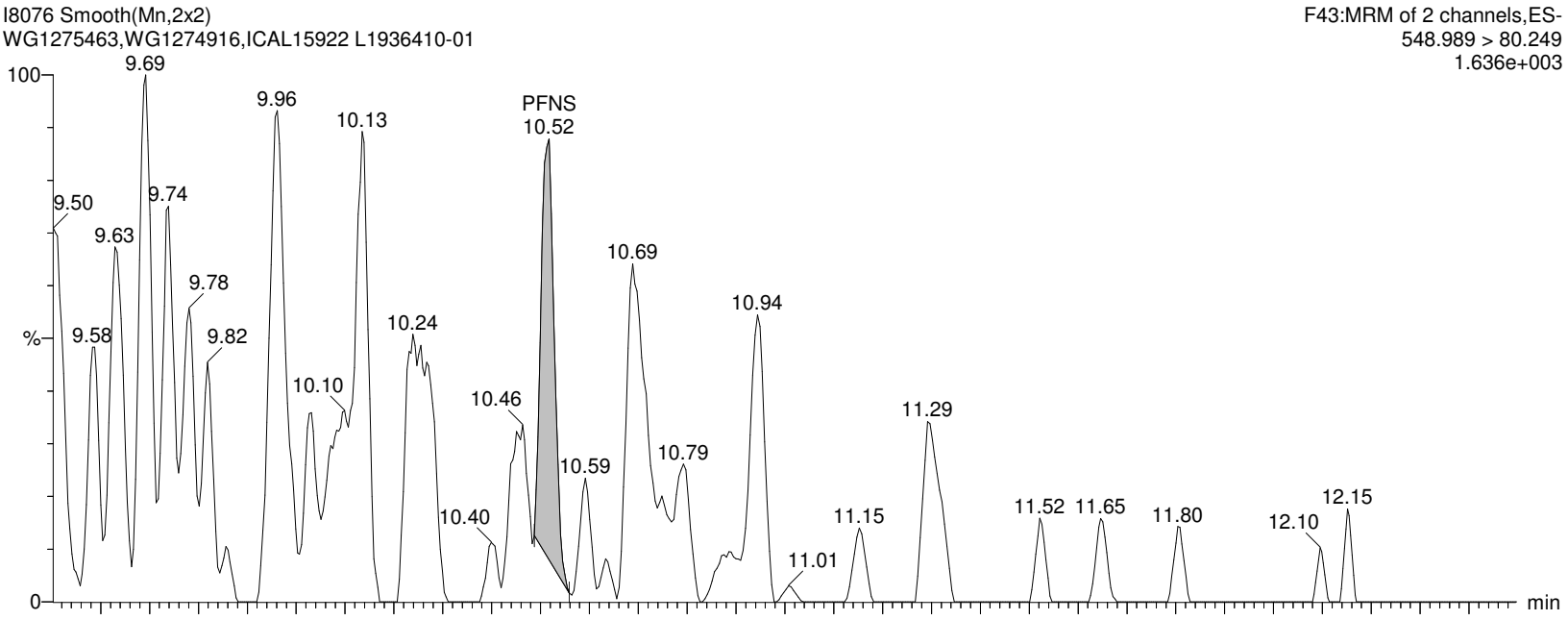


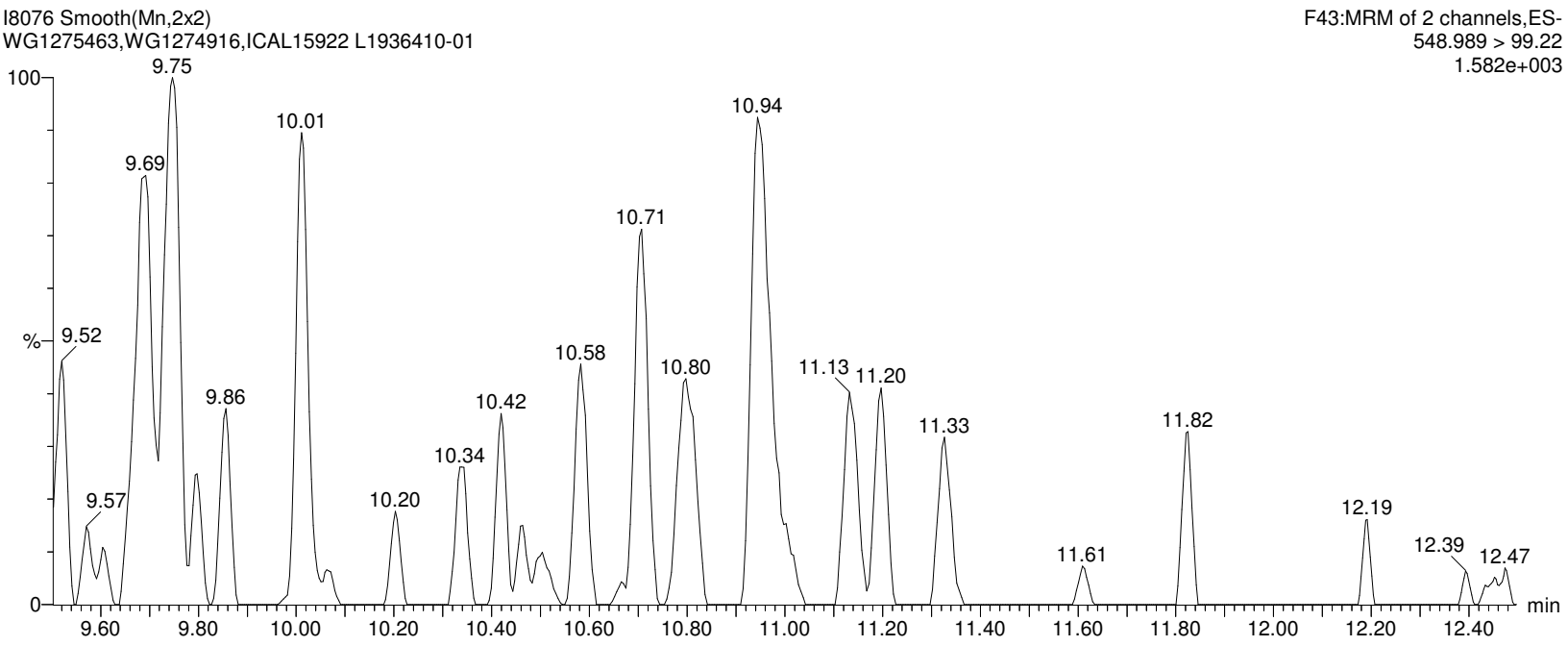
all concentration units in (ng/mL)

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PFNS



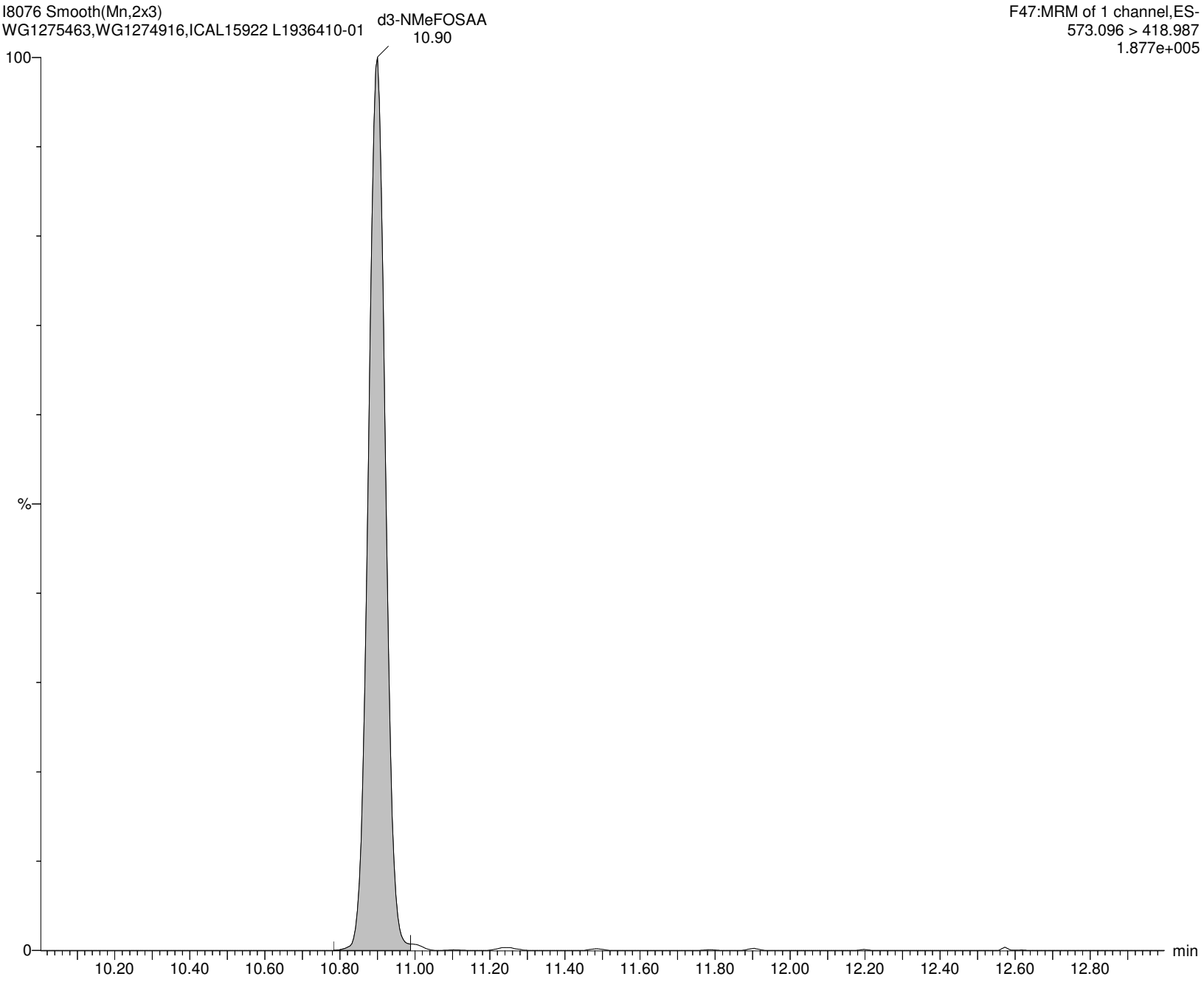


all concentration units in (ng/mL)

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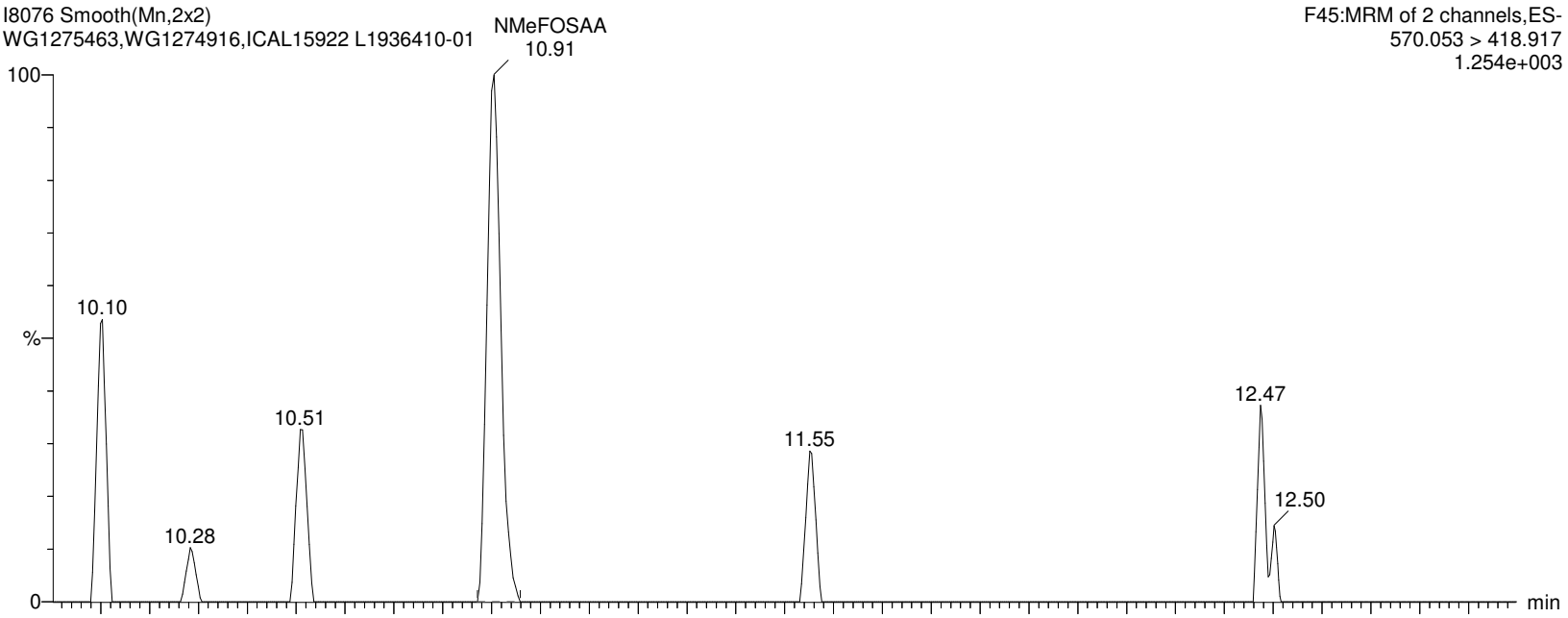


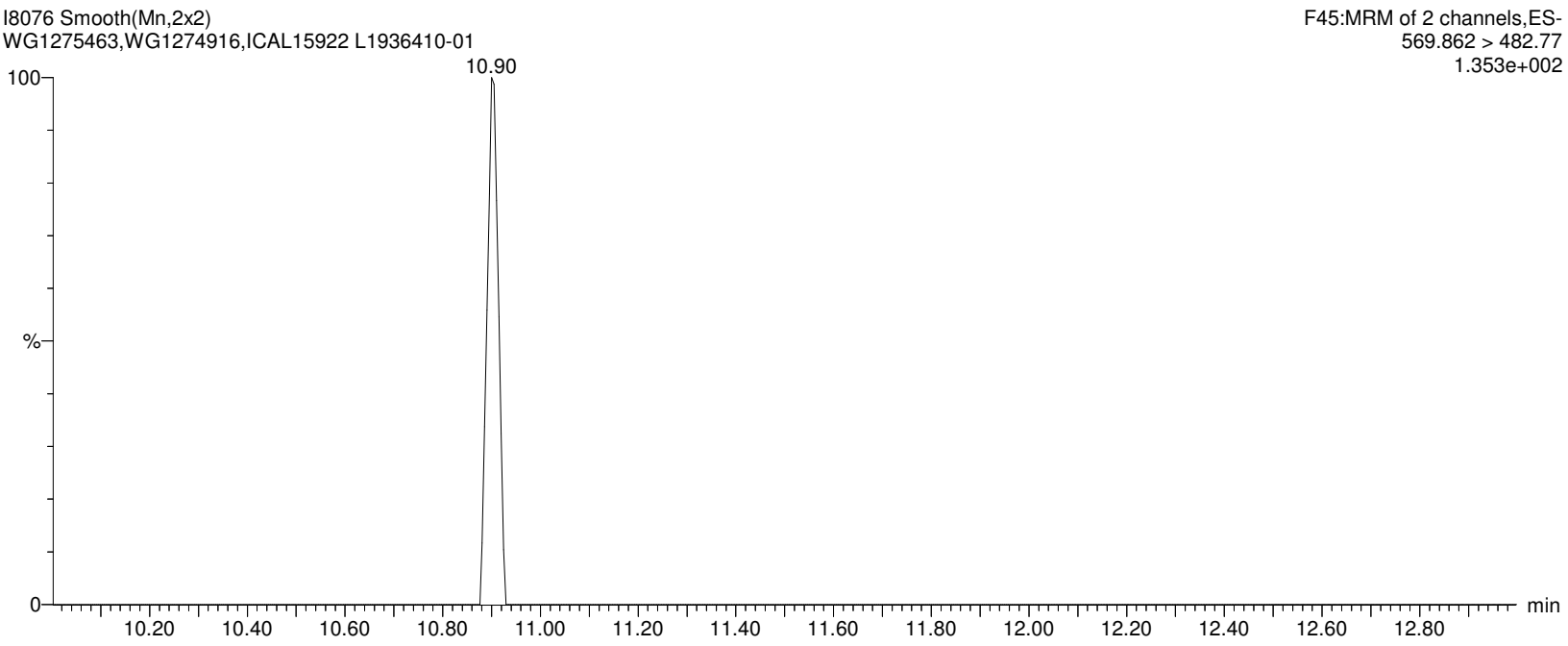
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User: LCMS02:JW
Vial: 1:C,6
Instrument: XEVO-TQSmicro#QEB0050
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NMeFOSAA



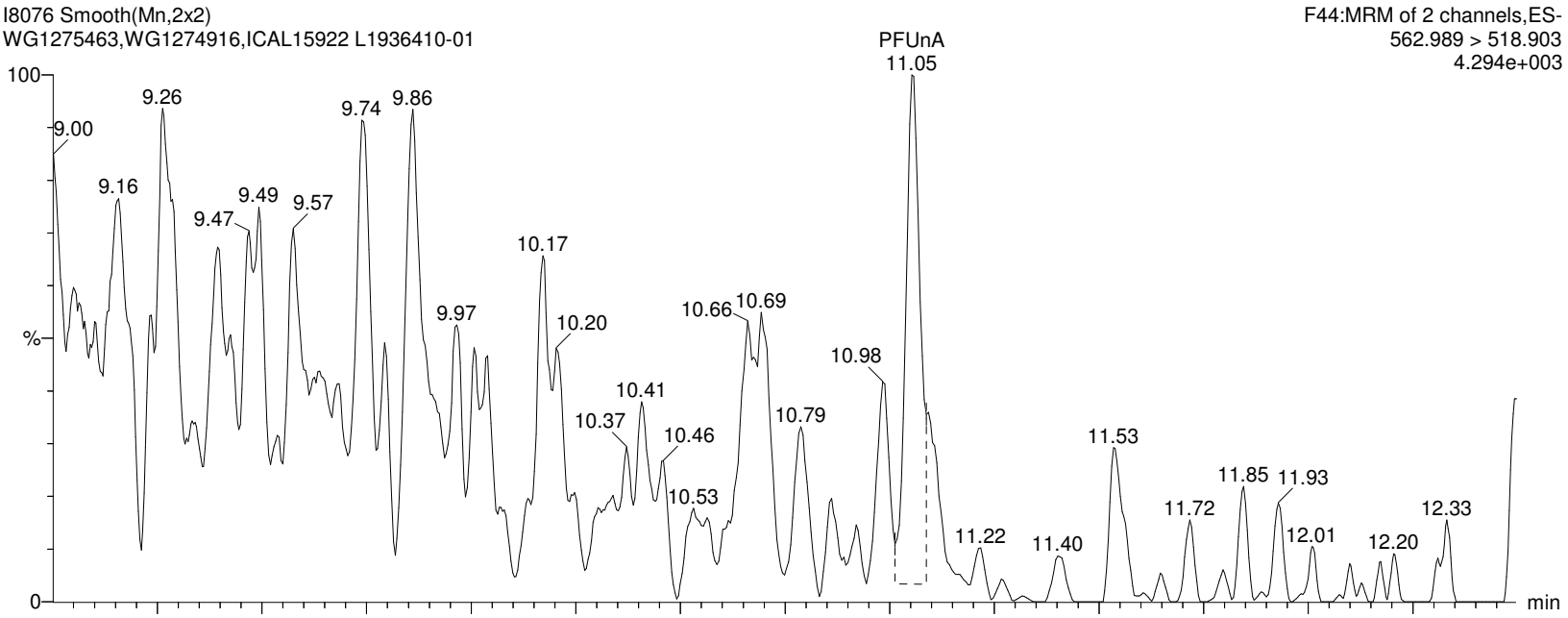


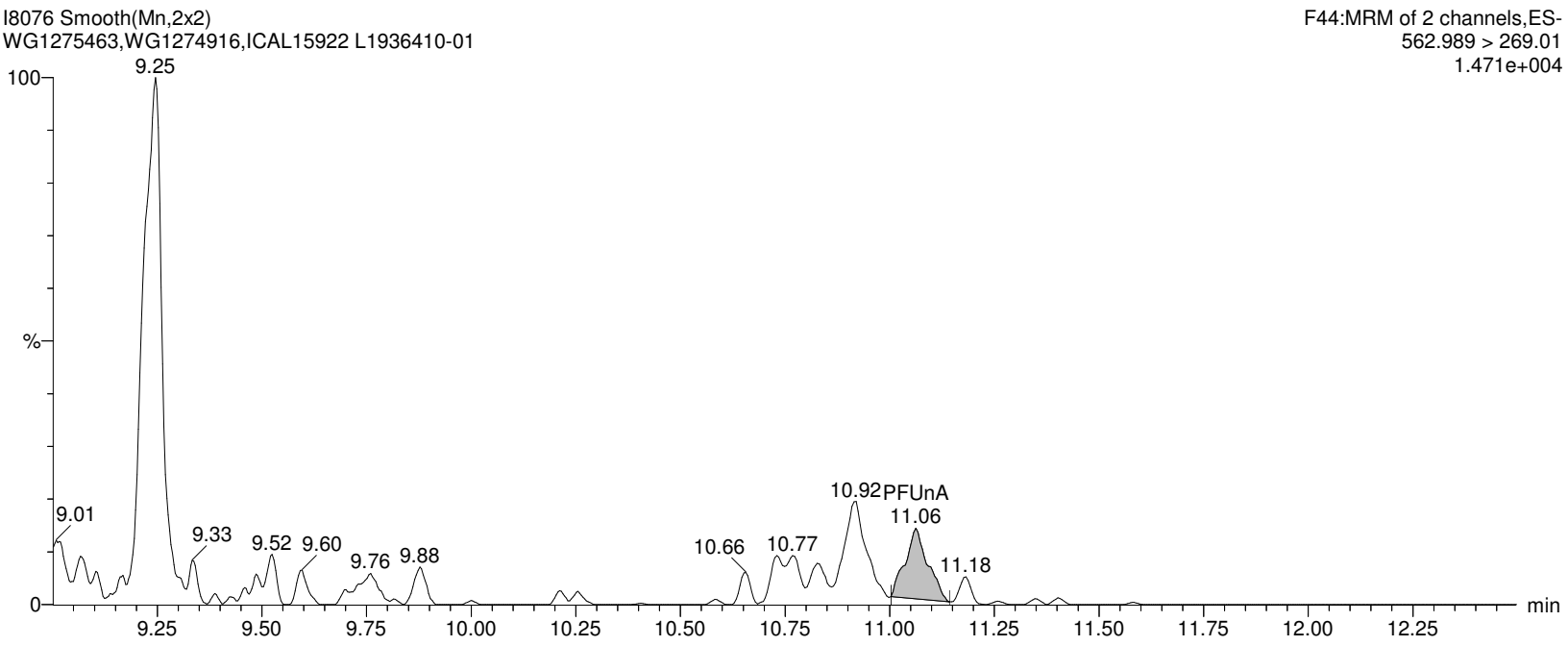
all concentration units in (ng/mL)

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Last Altered: Friday, August 23, 2019 09:51:17 Eastern Daylight Time
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PFUnA



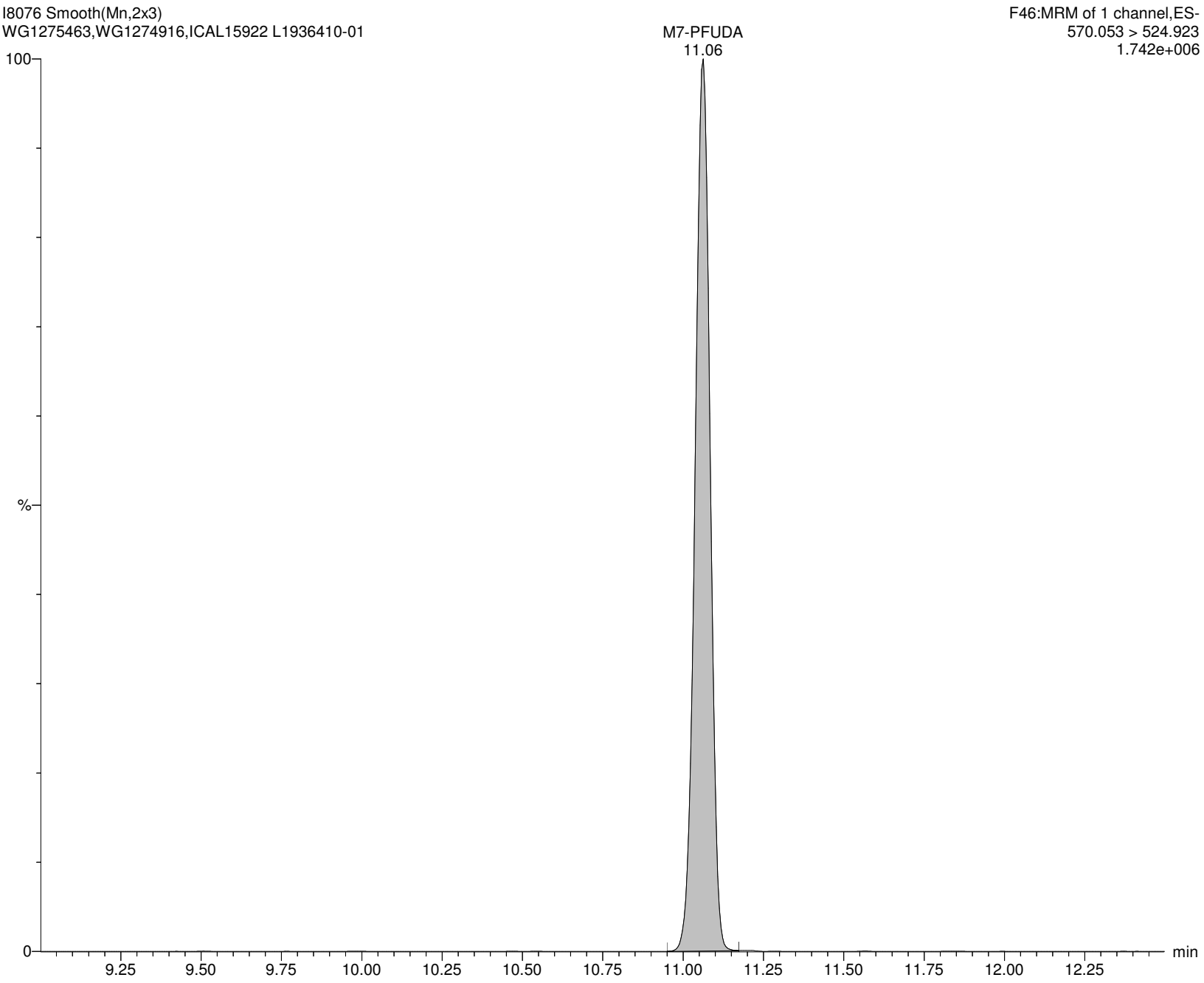


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M7-PFUDA

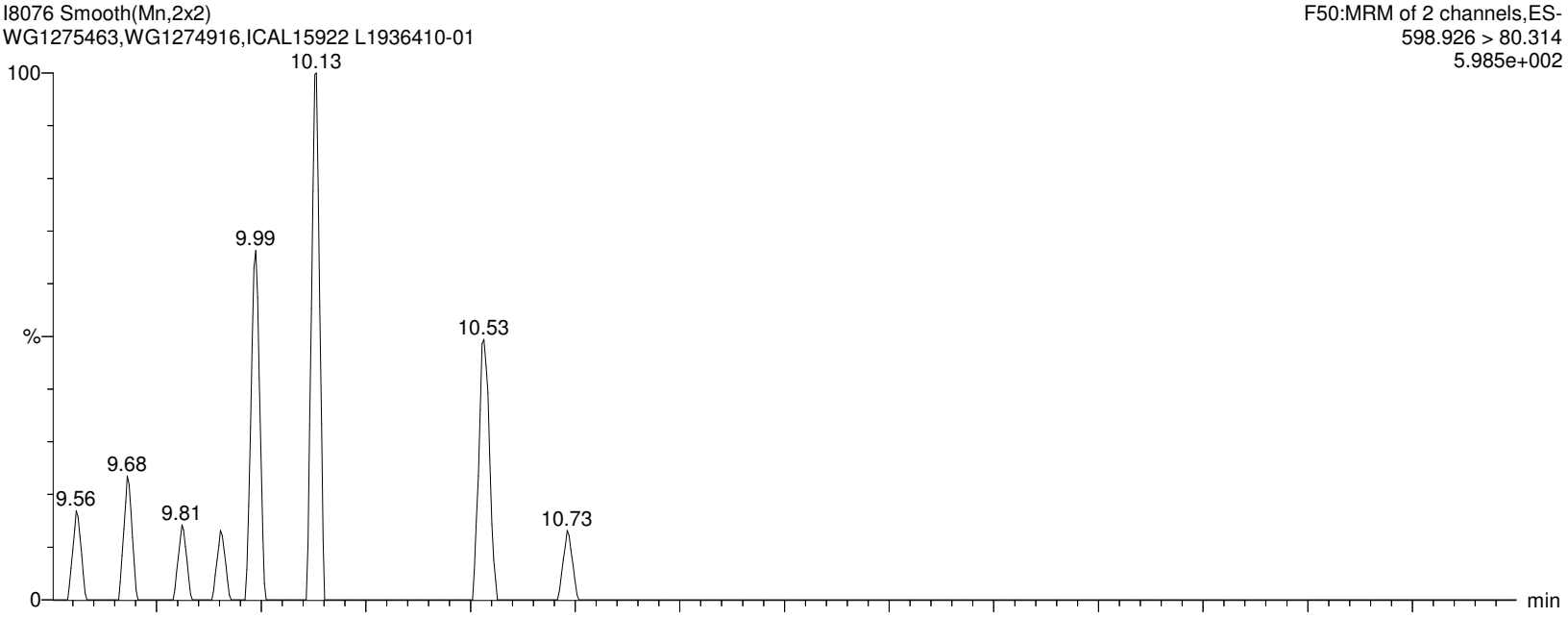


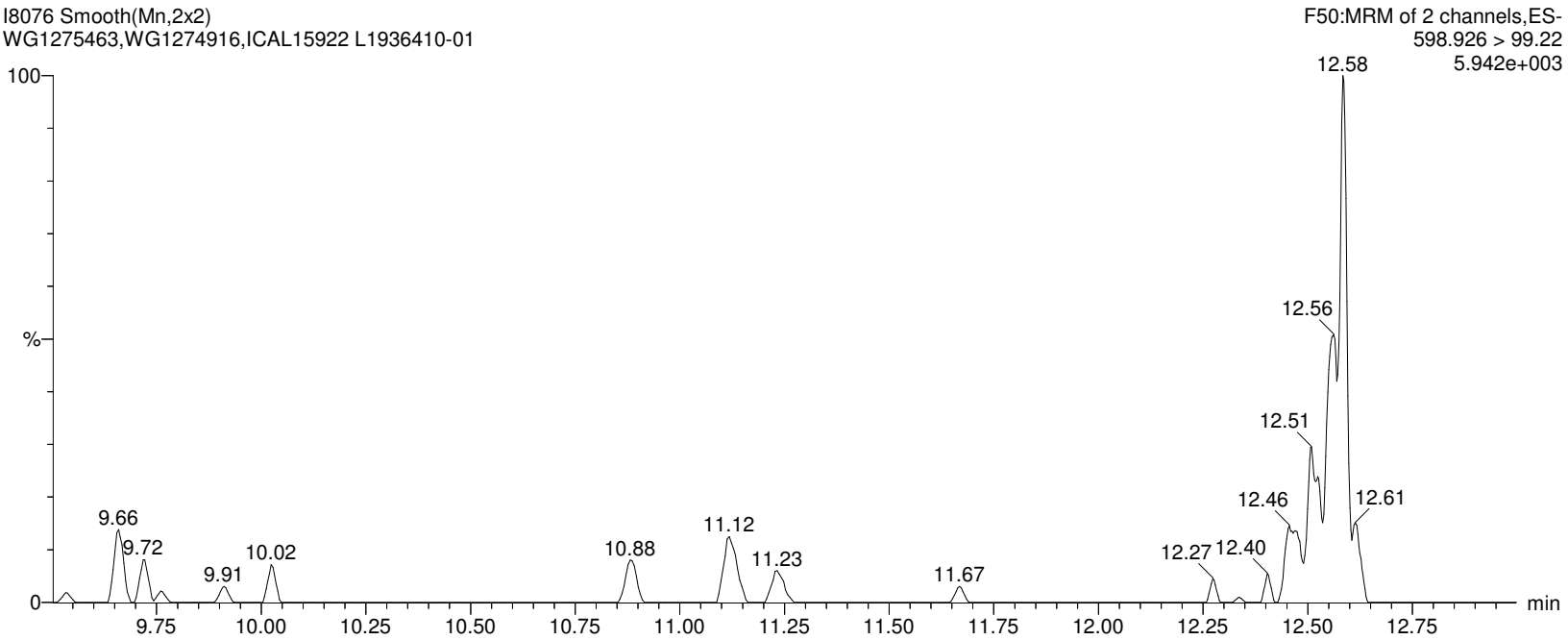
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PFDS



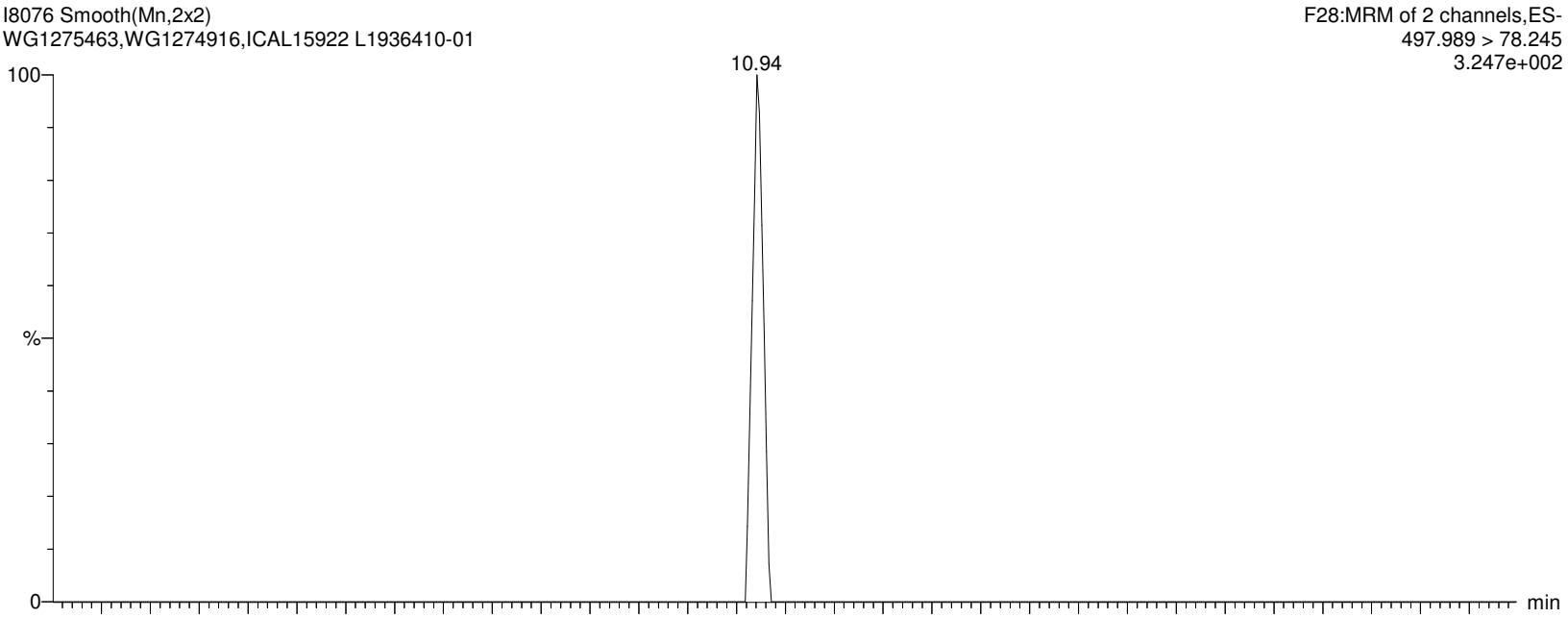


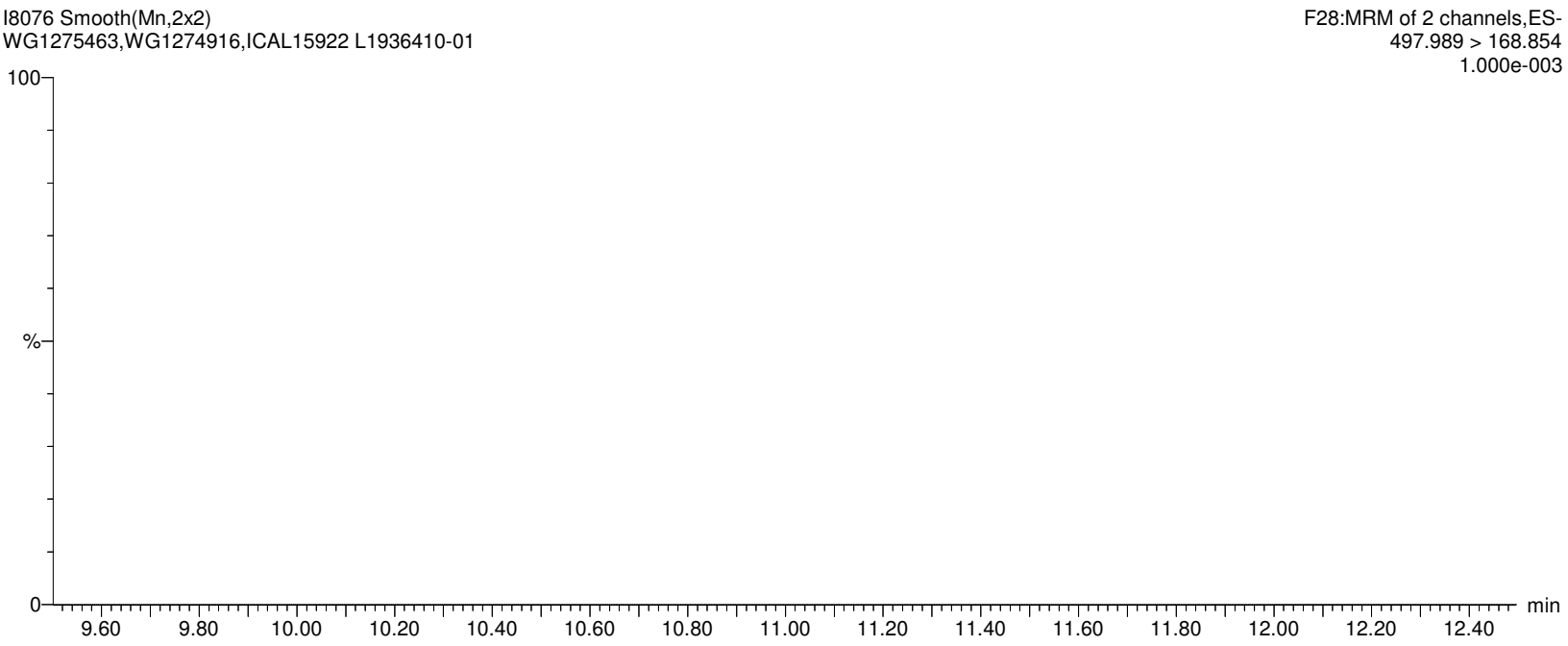
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FOSA



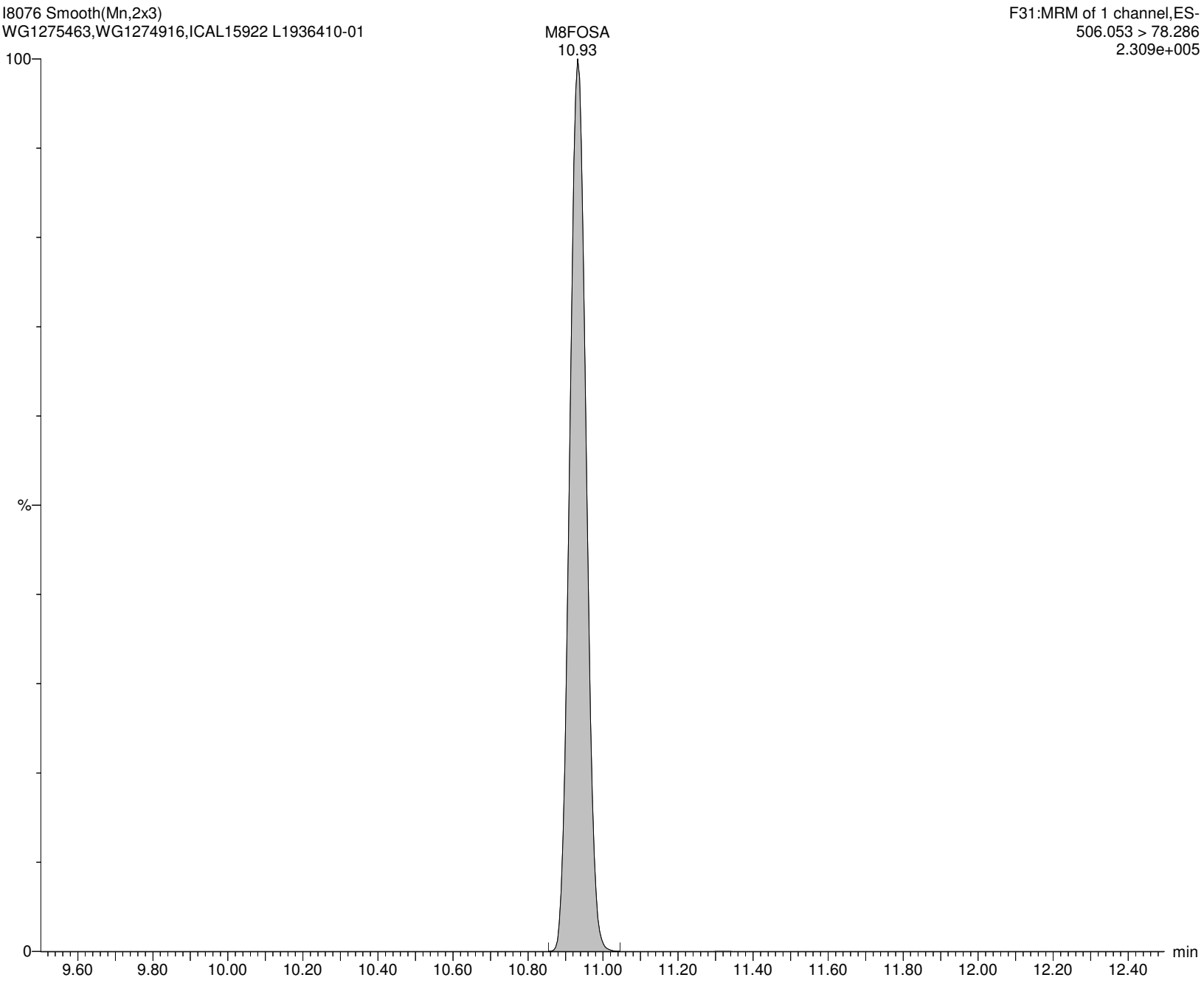


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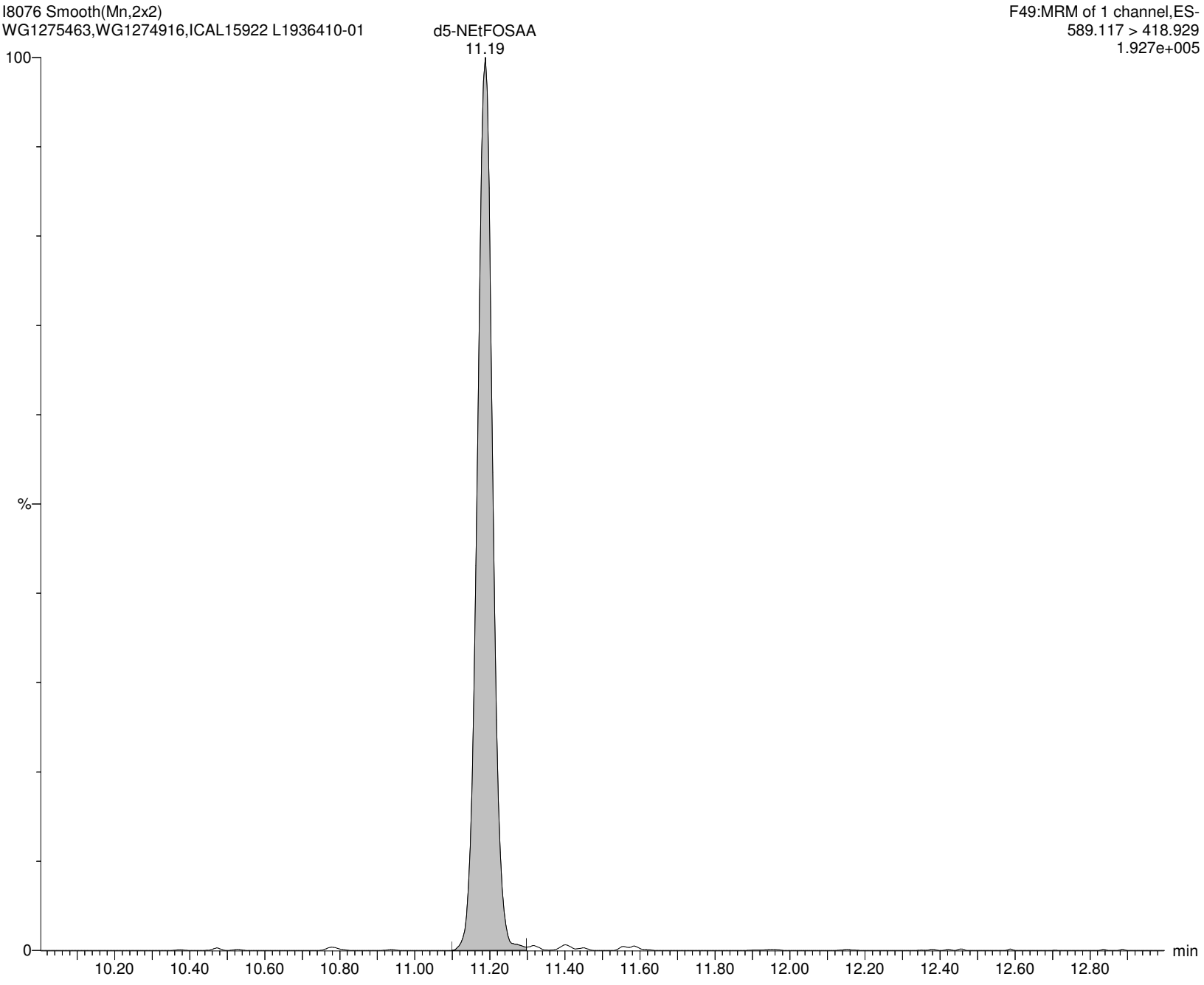


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d5-NEtFOSAA

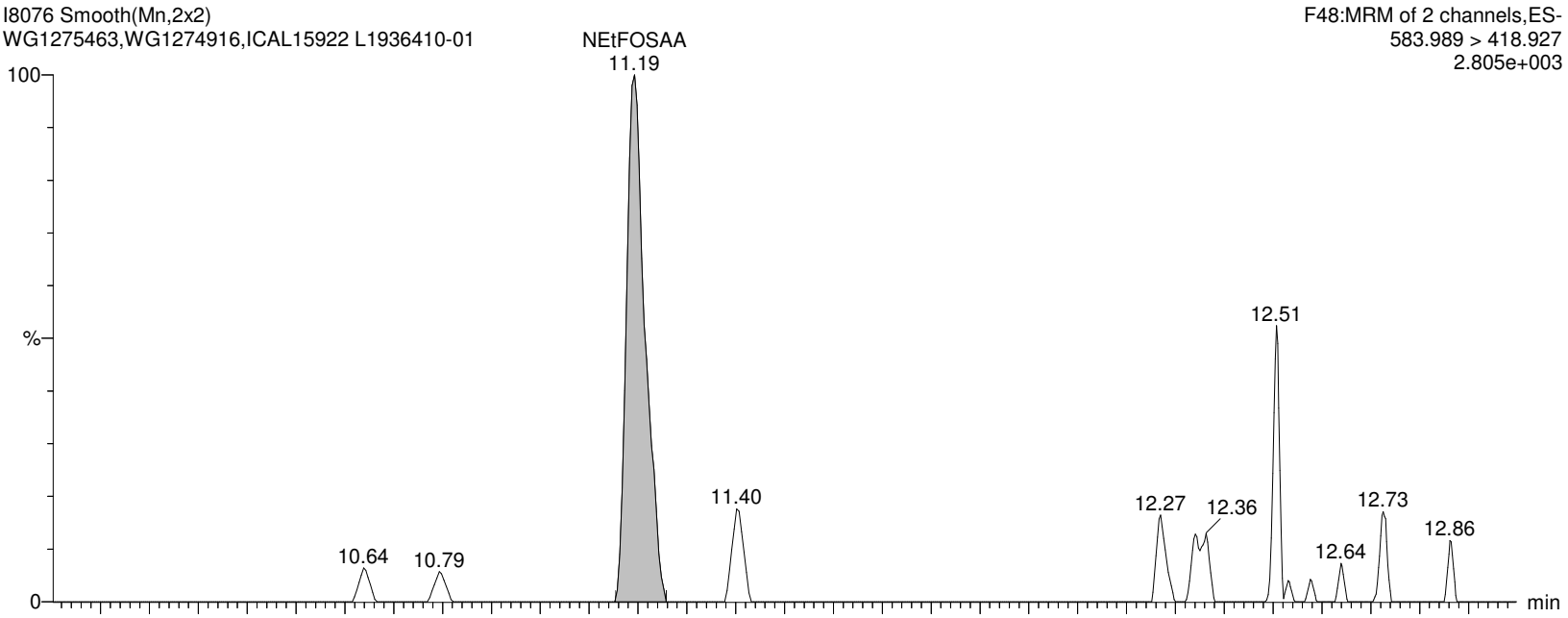


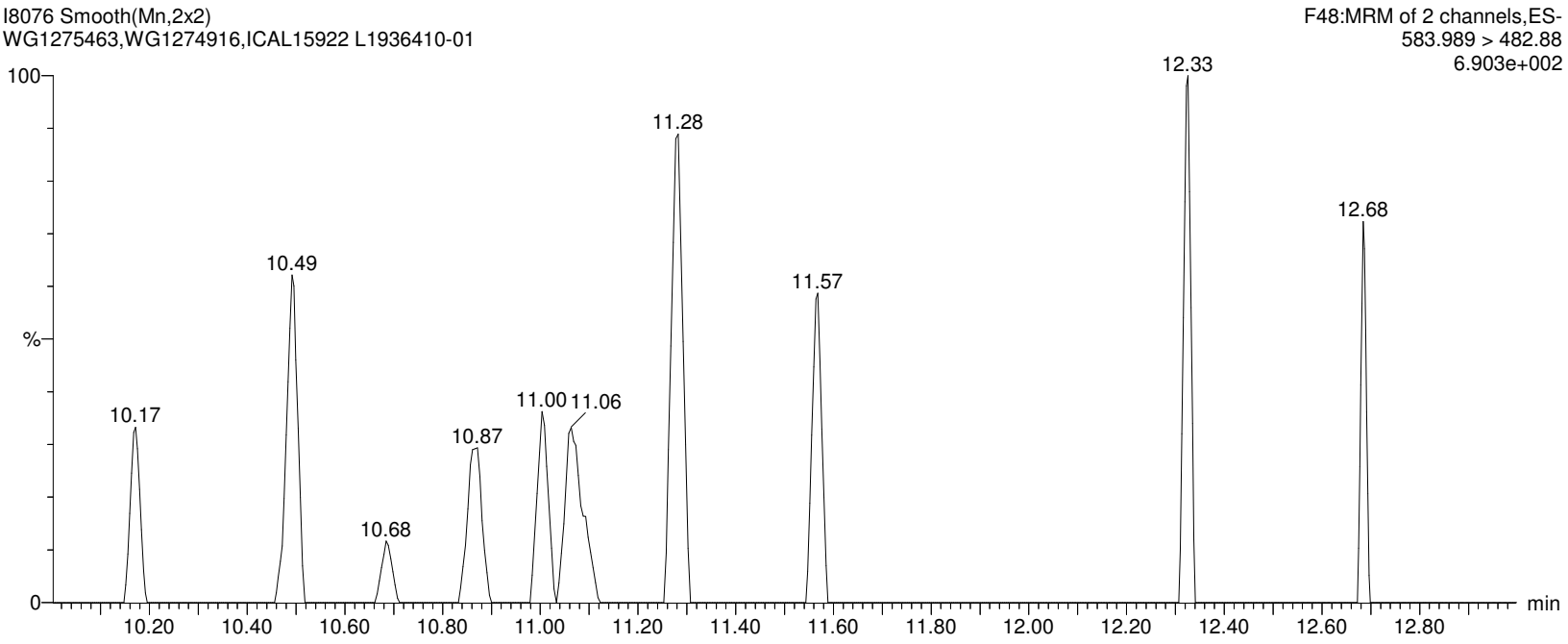
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NEtFOSAA



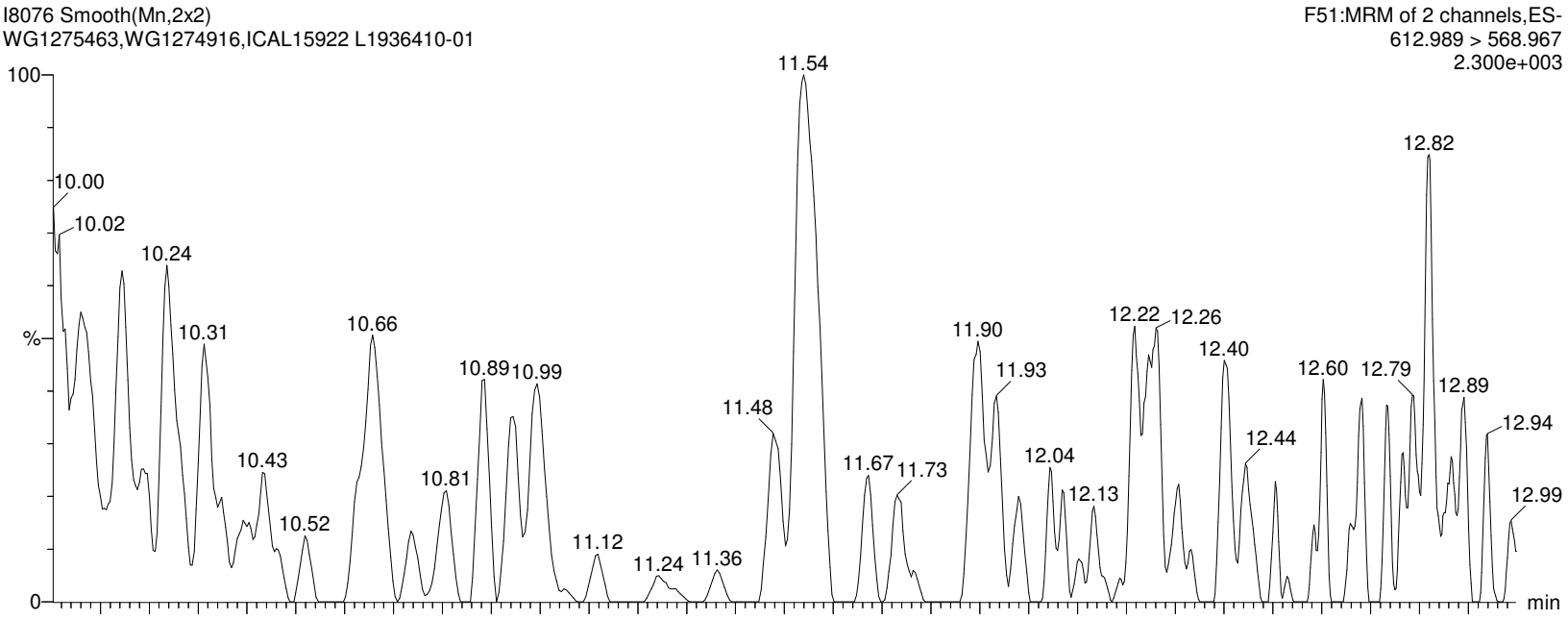


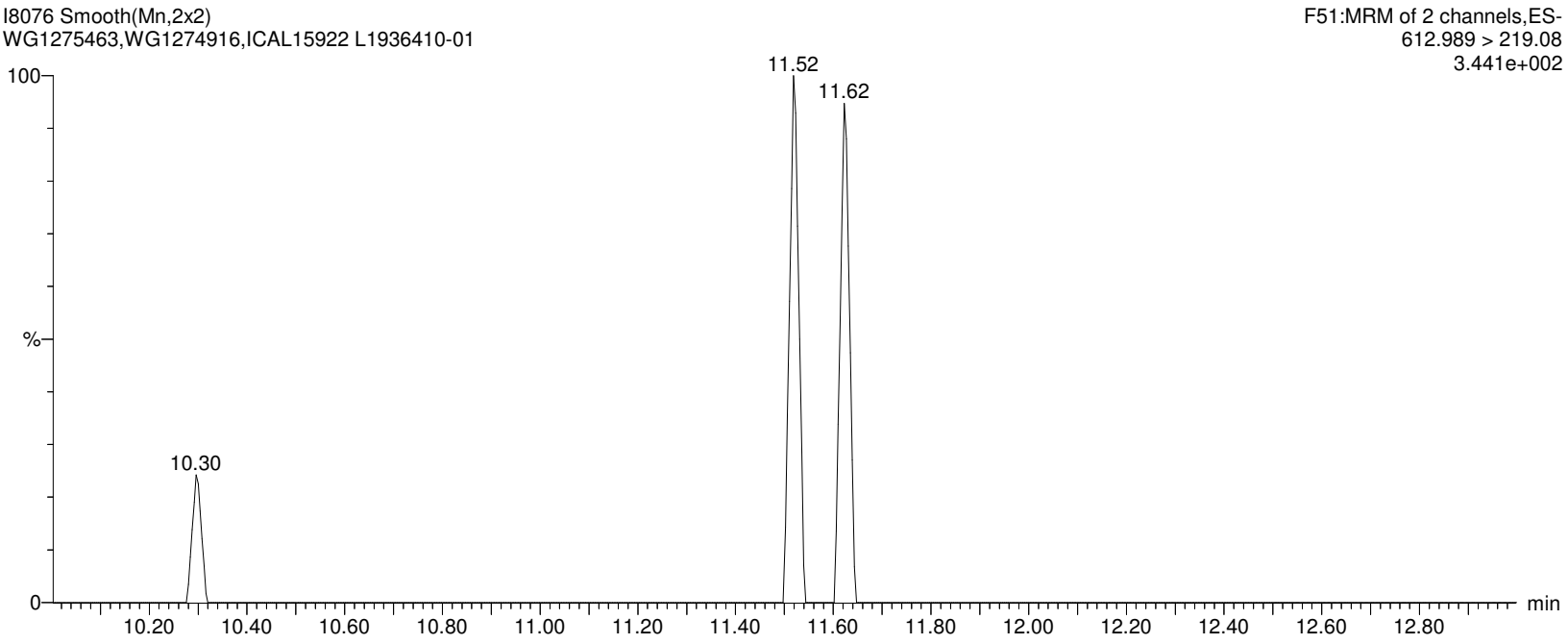
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Instrument: XEVO-TQSmicro#QEB0050
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PFDoA



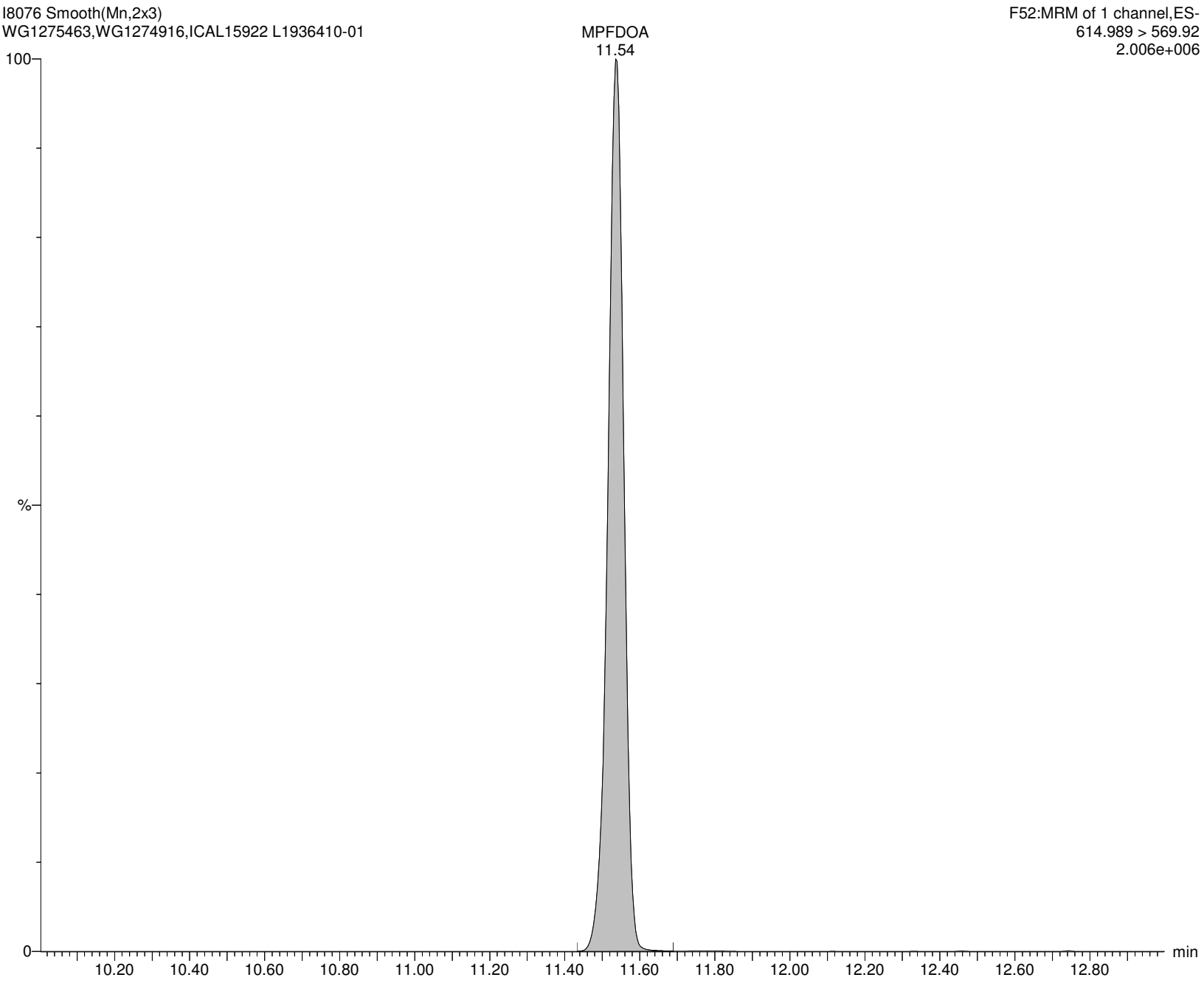


all concentration units in (ng/mL)

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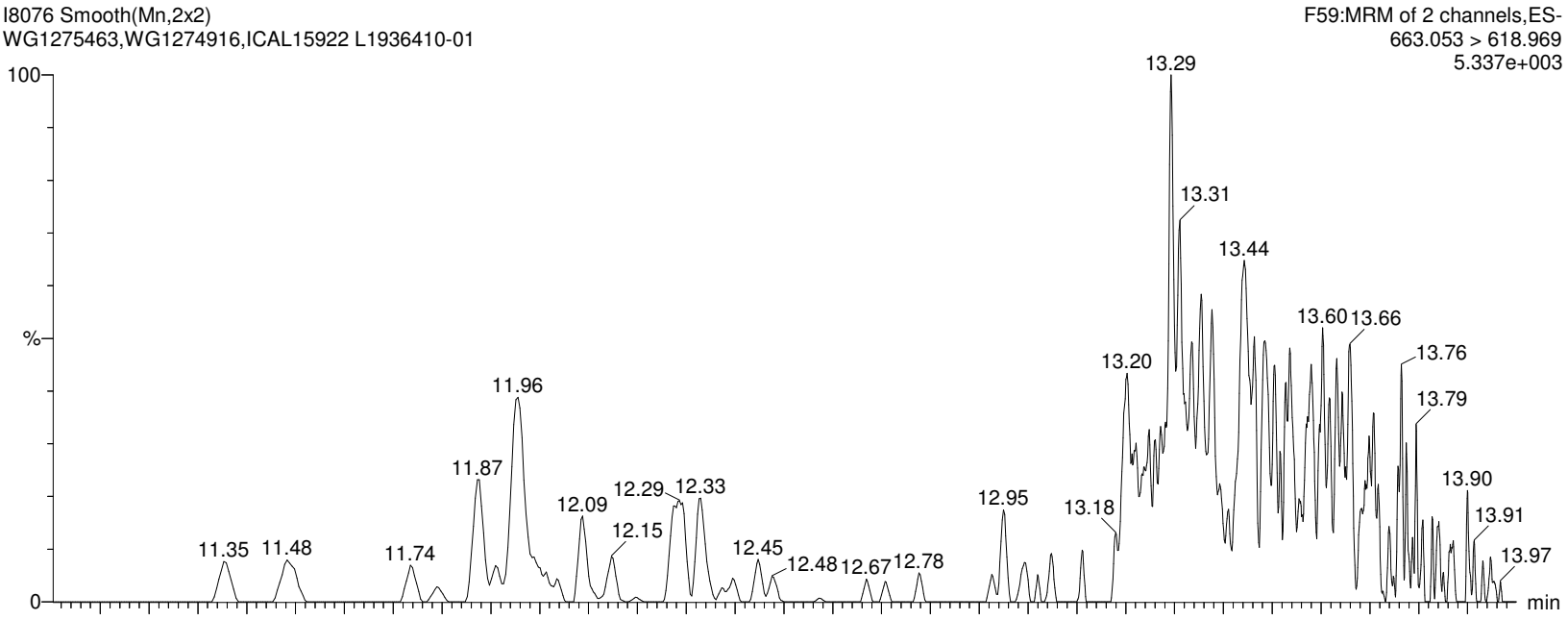


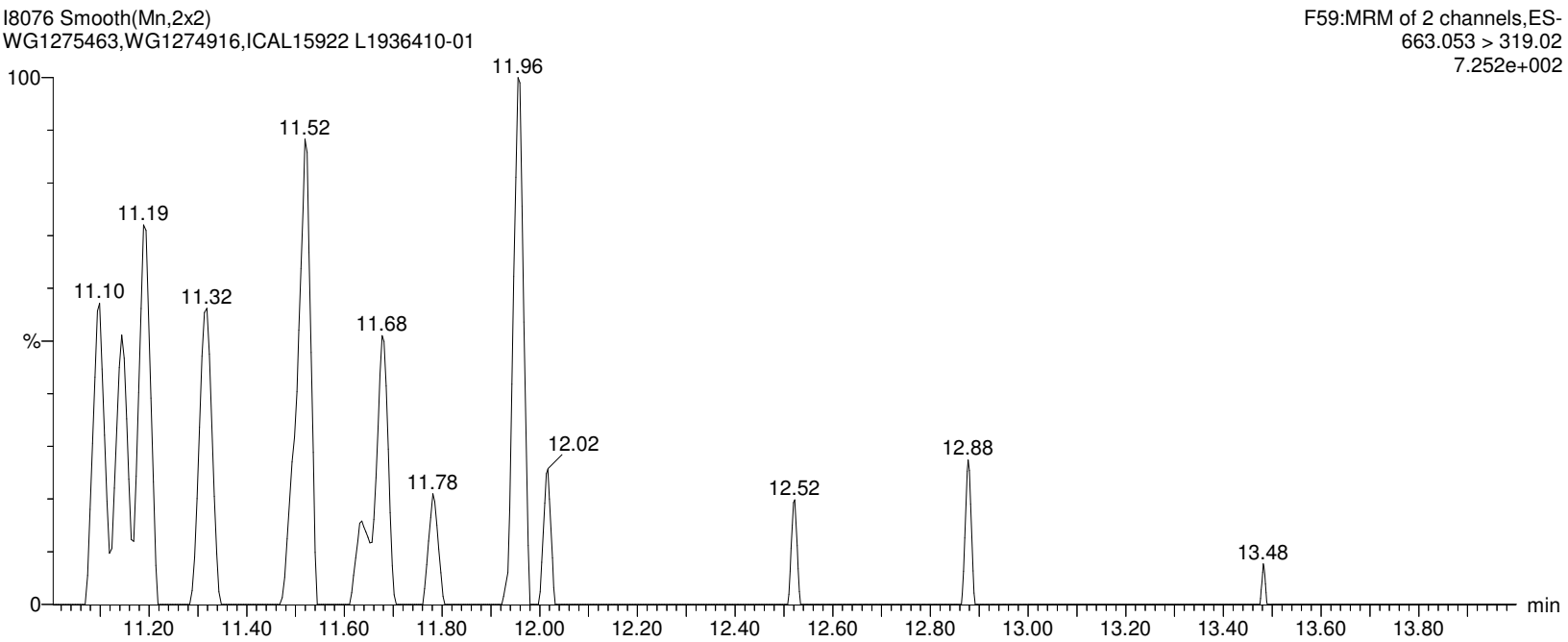
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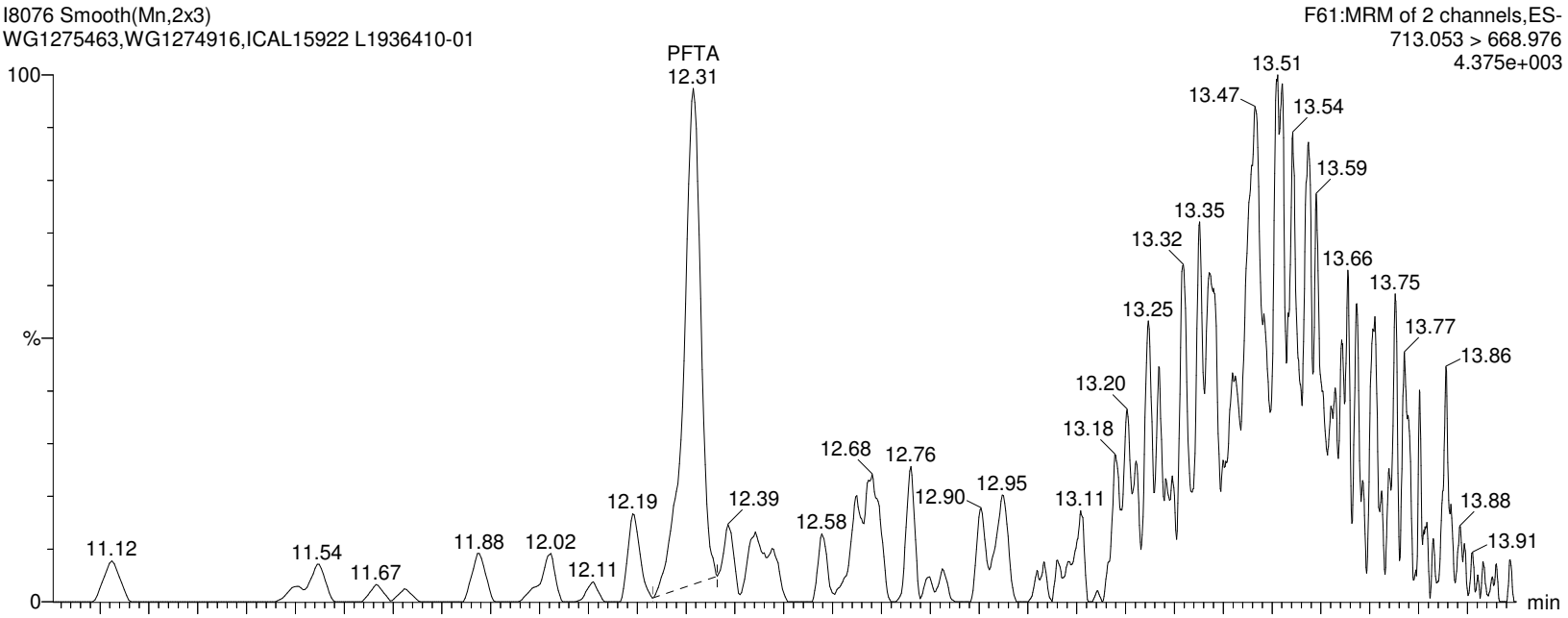


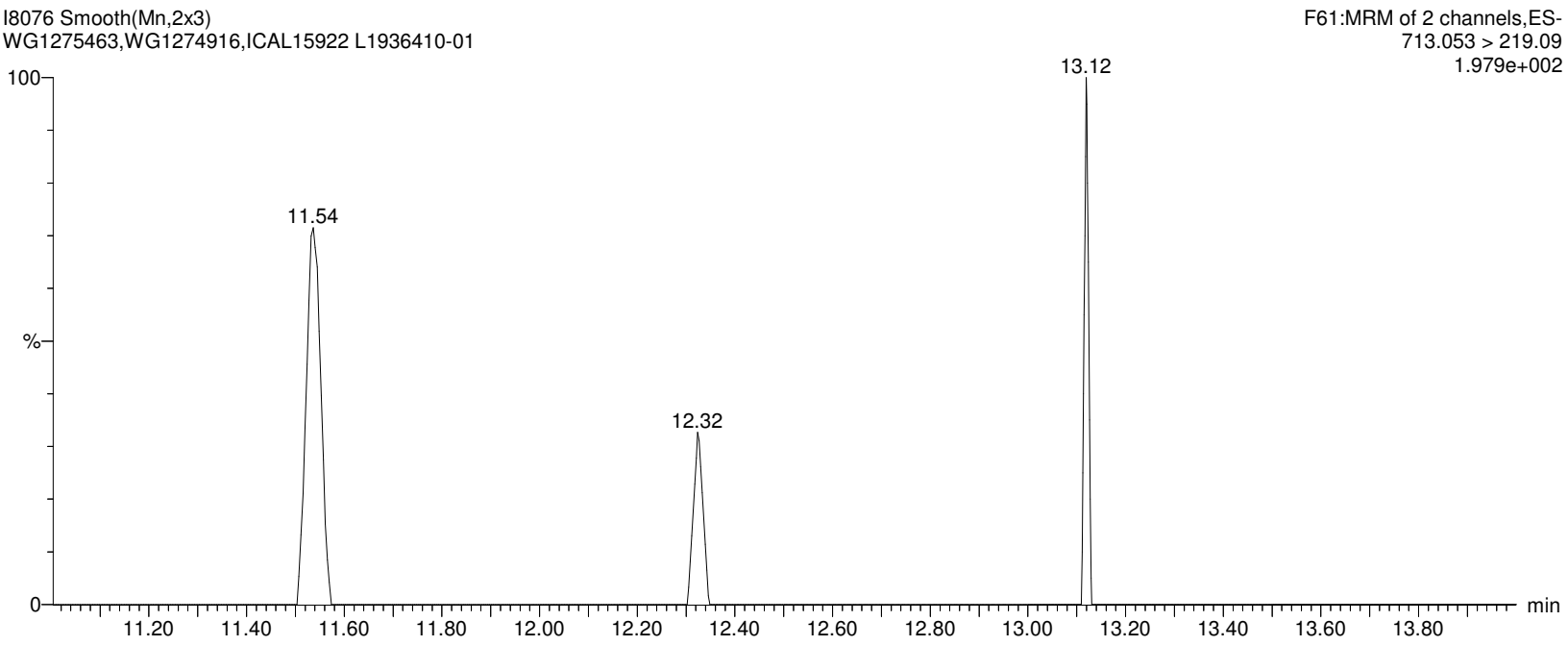
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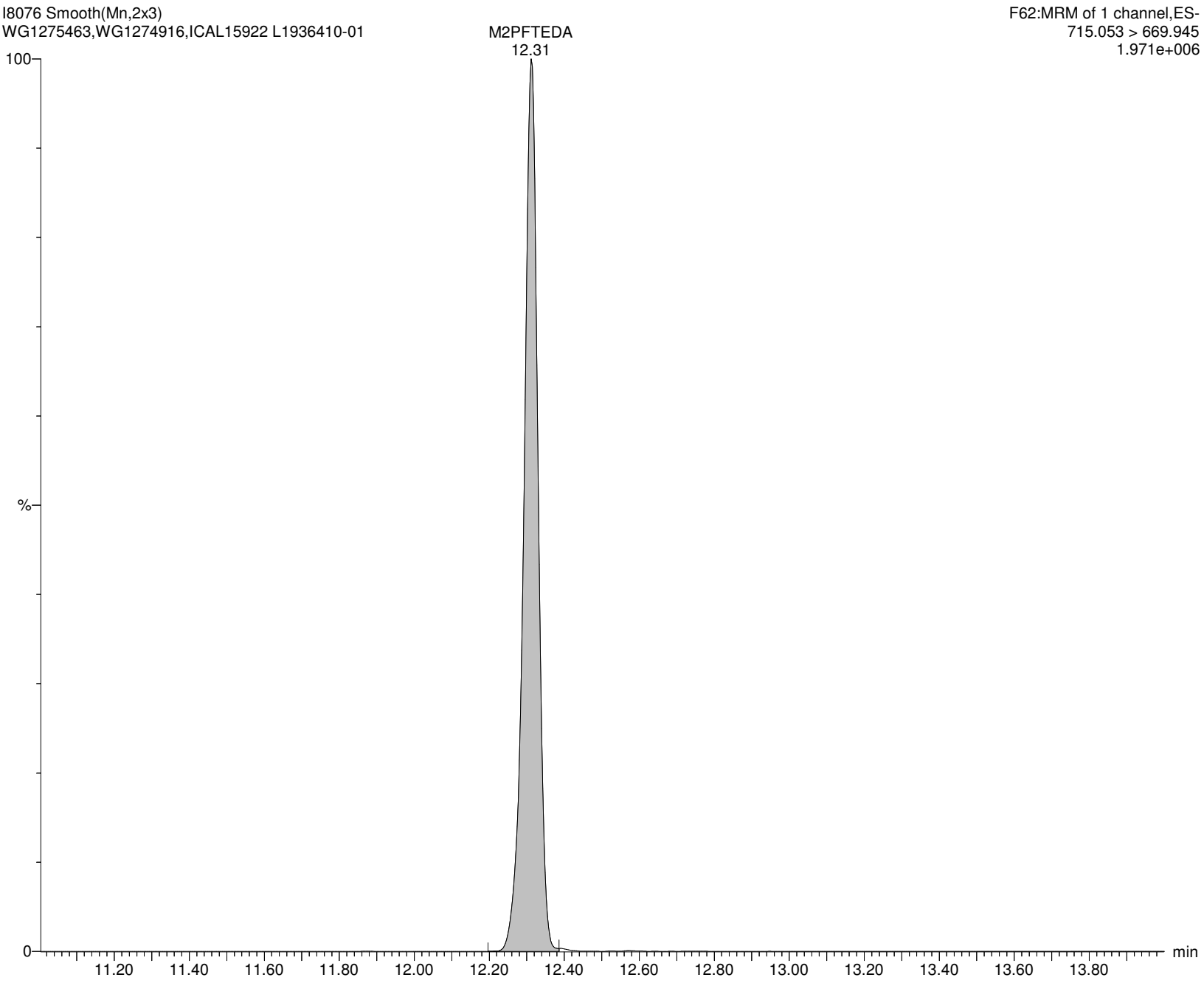


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M2PFTEDA



all concentration units in (ng/mL)

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Time: 14:58:12
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Instrument: XEVO-TQSmicro#QEB0050
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MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.07	212.926 > 169.111	1606		0.612		na	
2	M3PFBA	INT STD	2.08	215.926 > 172.122	27162		7.023		na	70.2
3	MPFBA	INT STD	2.07	216.926 > 172.137	28848		9.471		na	94.7
4	PFPeA	2706-90-3	4.97	262.926 > 219.002	886		0.169		na	
5	M5PFPEA	INT STD	4.97	267.989 > 223.081	50972		11.823		na	118.2
6	PFBS	375-73-5	5.64	298.926 > 79.923	304		0.196	1.71	YES	
7	M3PFBS	INT STD	5.63	301.989 > 80.254	10442		8.963		na	89.6
8	4:2FTS	757124-72-4		326.926 > 306.957			ND		YES	
9	M2-4:2FTS	INT STD	6.81	329.117 > 309.079	6594		9.445		na	94.5
10	PFHxA	307-24-4	6.90	312.989 > 269.028	1712		0.251		YES	
11	M5PFHxA	INT STD	6.89	317.989 > 273.045	69089		7.927		na	79.3
12	PFPeS	2706-91-4		348.926 > 80.251			ND		YES	
13	PFHpA	375-85-9	8.19	362.926 > 319.014	2012		0.224	8.69	NO	
14	M4PFHpA	INT STD	8.19	366.926 > 321.979	90150		8.119		na	81.2
15	br-PFHxS	355-46-4		398.926 > 80.295			ND		YES	
16	L-PFHxS	355-46-4		398.926 > 80.295			ND		YES	
17	PFHxS	355-46-4		398.926 > 80.295	0		ND		na	
18	M3PFHxS	INT STD	8.35	401.926 > 80.317	6942		9.614		na	96.1
19	br-PFOA	335-67-1	8.91	412.989 > 368.9	222		0.023	10.08	YES	
20	L-PFOA	335-67-1	9.15	412.989 > 368.9	2971		0.302	12.21	NO	
21	M2PFOA	INT STD	9.15	415.032 > 369.968	103377		11.338		na	113.4
22	PFOA	335-67-1		412.989 > 368.9	3193		0.325		na	
23	M8PFOA	INT STD	9.15	420.989 > 375.979	98984		9.637		na	96.4
24	6:2FTS	27619-97-2		426.989 > 406.921			ND		YES	
25	M2-6:2FTS	INT STD	9.11	428.989 > 408.917	4946		7.862		na	78.6
26	PFHpS	375-92-8		448.926 > 80.257			ND		YES	
27	PFNA	375-95-1	9.90	462.989 > 418.931	1142		0.134	5.57	NO	
28	M9PFNA	INT STD	9.90	472.053 > 426.947	94215		9.905		na	99.1
29	br-PFOS	1763-23-1	9.76	498.989 > 80.294	307	m5	0.307		YES	
30	L-PFOS	1763-23-1	9.96	498.989 > 80.294	249		0.261		YES	
31	PFOS	1763-23-1		498.989 > 80.294	556		0.568		na	
32	M4PFOS	INT STD	9.96	503.032 > 80.306	8753		11.769		na	117.7
33	M8PFOS	INT STD	9.96	507.053 > 80.294	9234		9.796		na	98.0
34	PFDA	335-76-2		513.053 > 468.906			ND		YES	
35	M2PFDA	INT STD	10.53	515.053 > 469.934	87077		12.174		na	121.7
36	M6PFDA	INT STD	10.53	519.053 > 473.931	84230		8.651		na	86.5
37	8:2FTS	39108-34-4		526.926 > 506.818			ND		na	
38	M2-8:2FTS	INT STD	10.53	529.053 > 508.945	1875		5.431		na	54.3
39	PFNS	68259-12-1		548.989 > 80.249			ND		YES	

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, August 23, 2019 09:51:17 Eastern Daylight Time
Printed: Friday, August 23, 2019 09:51:31 Eastern Daylight Time

ID: L1936410-02
Name: I8077
Date: 22-Aug-2019
Time: 14:58:12
Description: WG1275463,WG1274916,ICAL15922
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.91	573.096 > 418.987	4912		5.084		na	50.8
41	NMeFOSAA	2355-31-9		570.053 > 418.917			ND		YES	
42	PFUnA	2058-94-8		562.989 > 518.903			ND		YES	
43	M7-PFUDA	INT STD	11.07	570.053 > 524.923	68837		7.996		na	80.0
44	PFDS	335-77-3		598.926 > 80.314			ND		YES	
45	FOSA	754-91-6		497.989 > 78.245			ND		YES	
46	M8FOSA	INT STD	10.93	506.053 > 78.286	4893		1.689		na	16.9
47	d5-NEtFOSAA	INT STD	11.19	589.117 > 418.929	4160		4.752		na	47.5
48	NEtFOSAA	2991-50-6		583.989 > 418.927			ND		YES	
49	PFDoA	307-55-1		612.989 > 568.967			ND		YES	
50	MPFDOA	INT STD	11.54	614.989 > 569.92	64518		6.768		na	67.7
51	PFTrDA	72629-94-8		663.053 > 618.969			ND		YES	
52	PFTA	376-06-7		713.053 > 668.976			ND		YES	
53	M2PFTEDA	INT STD	12.31	715.053 > 669.945	57341		7.119		na	71.2

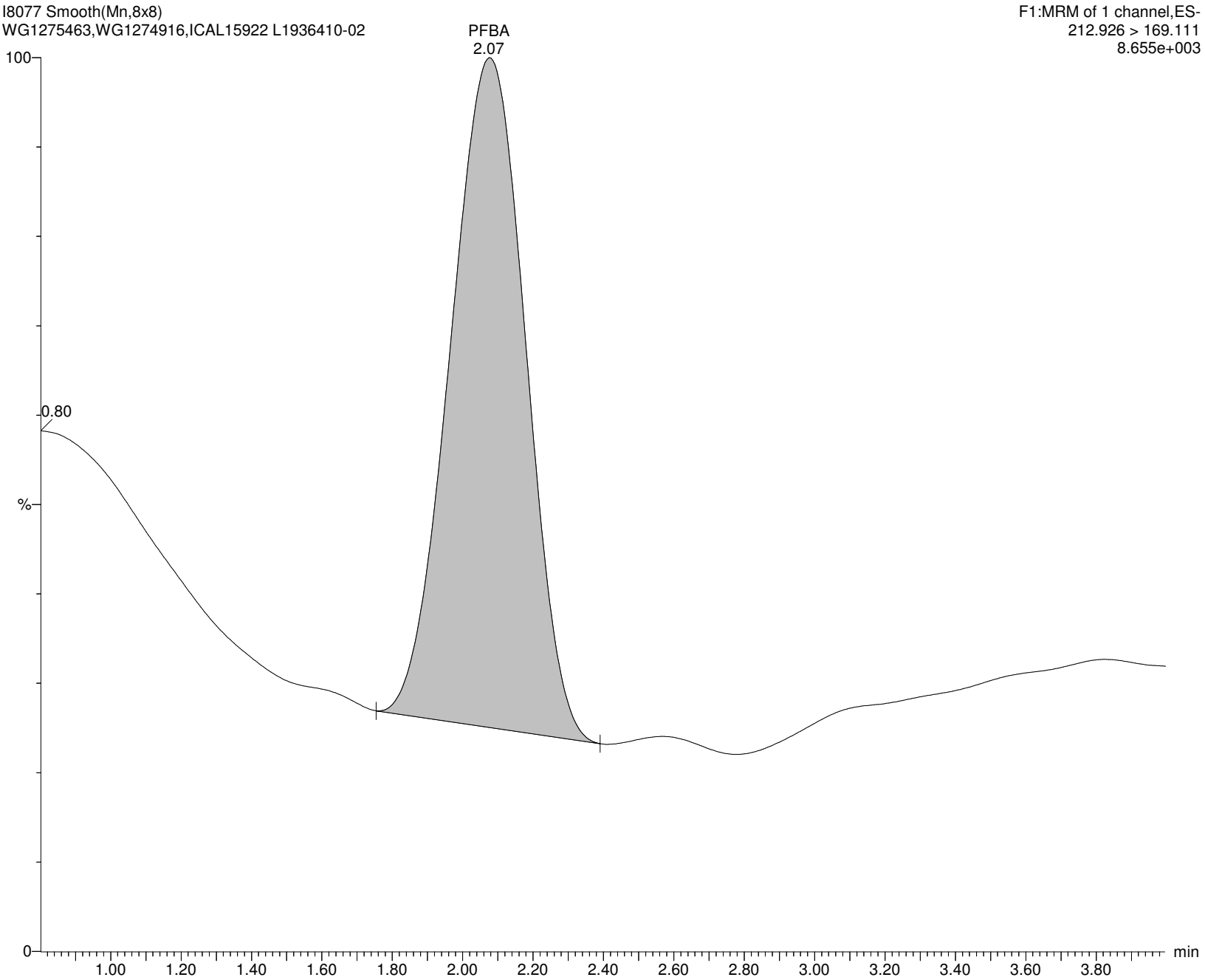
all concentration units in (ng/mL)

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Last Altered: Friday, August 23, 2019 09:51:17 Eastern Daylight Time
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Name: I8077
ID: L1936410-02
Date: 22-Aug-2019
Time: 14:58:12
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:C,7
Instrument: XEVO-TQSmicro#QEB0050
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PFBA

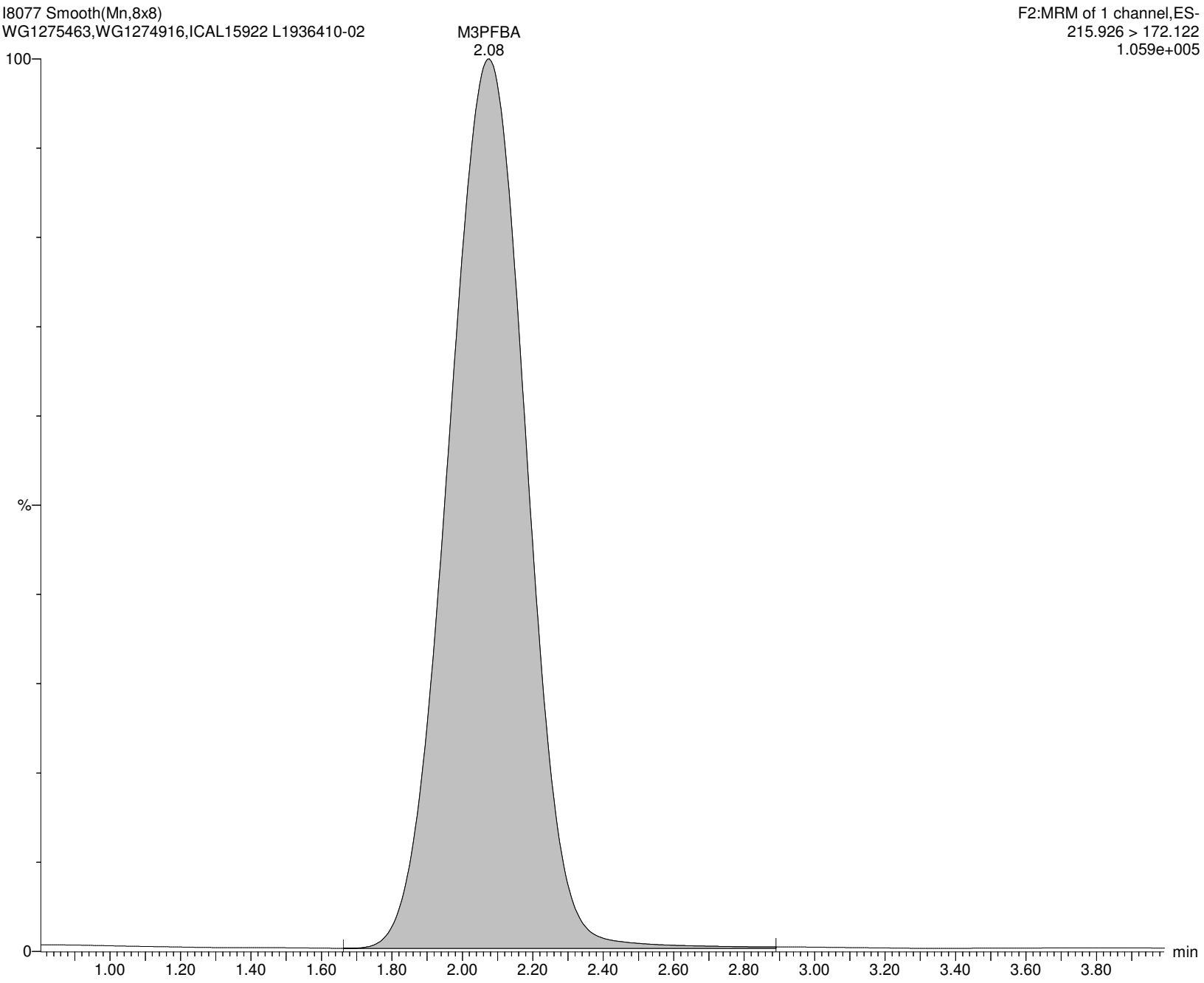


all concentration units in (ng/mL)

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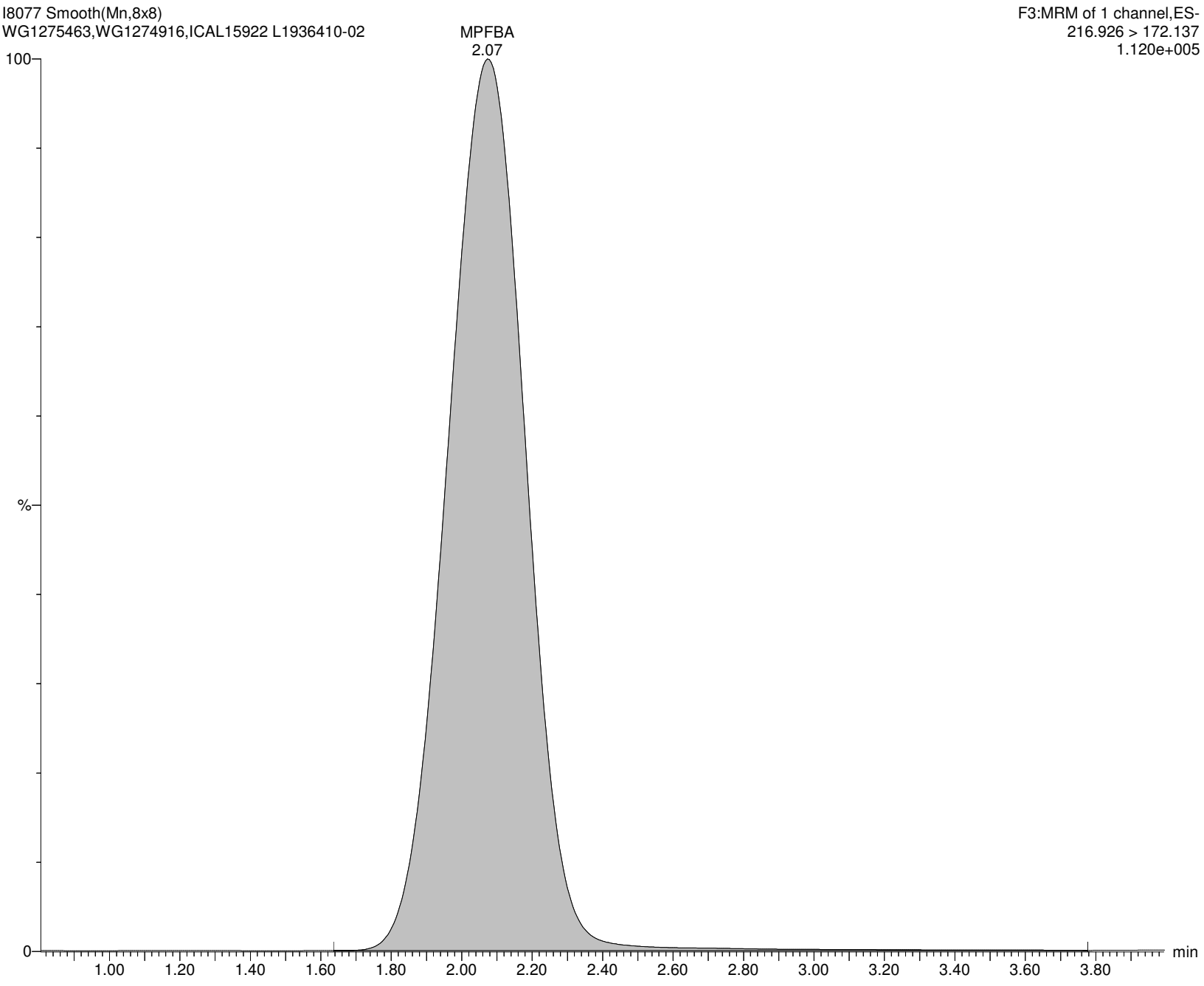


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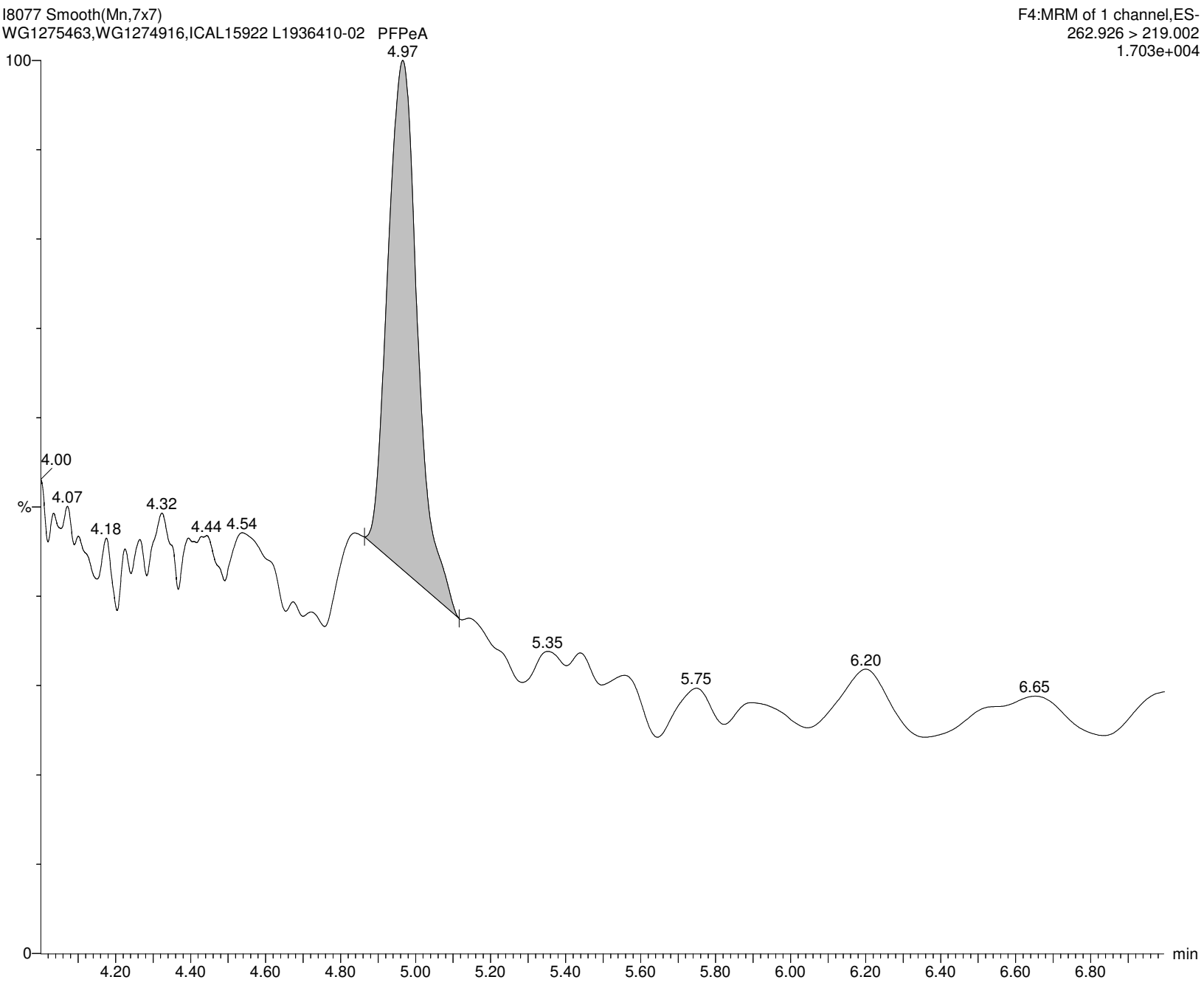


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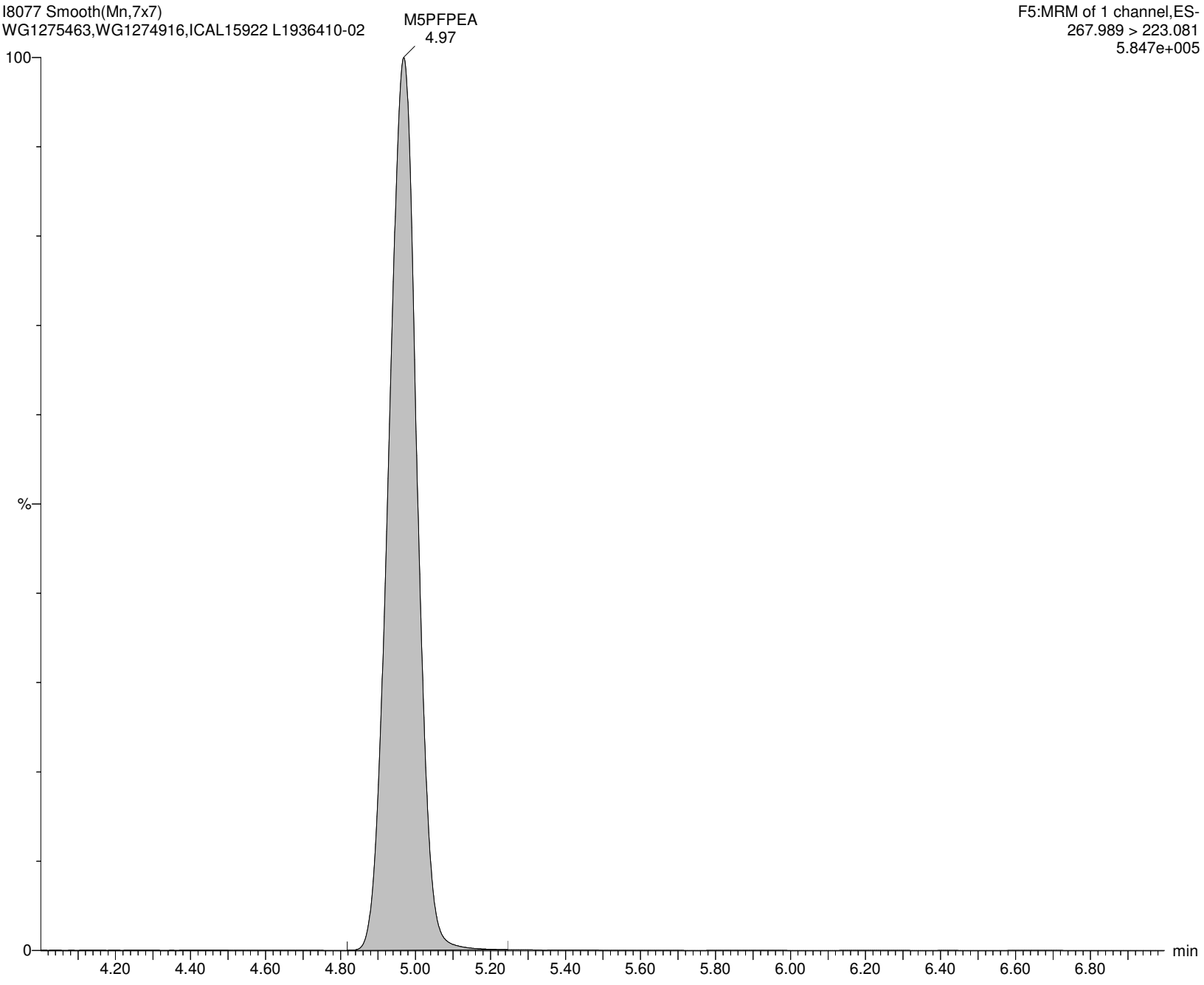


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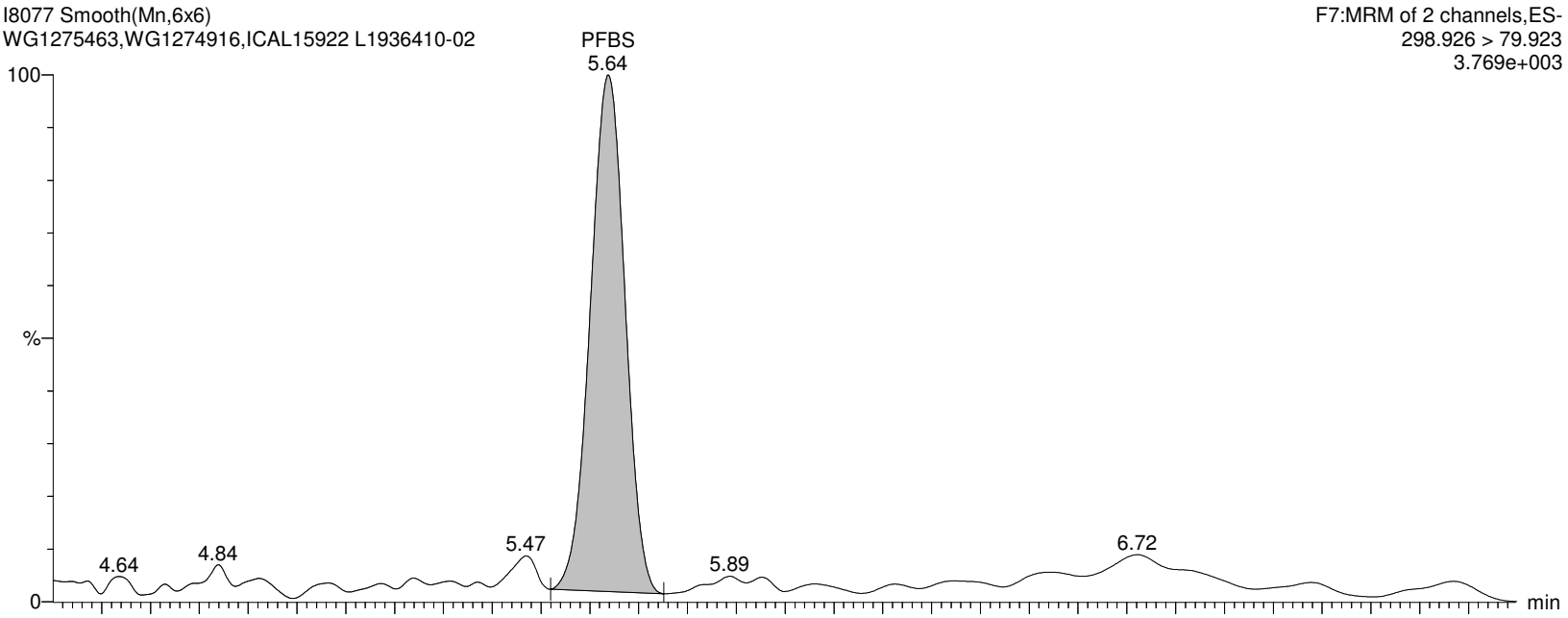


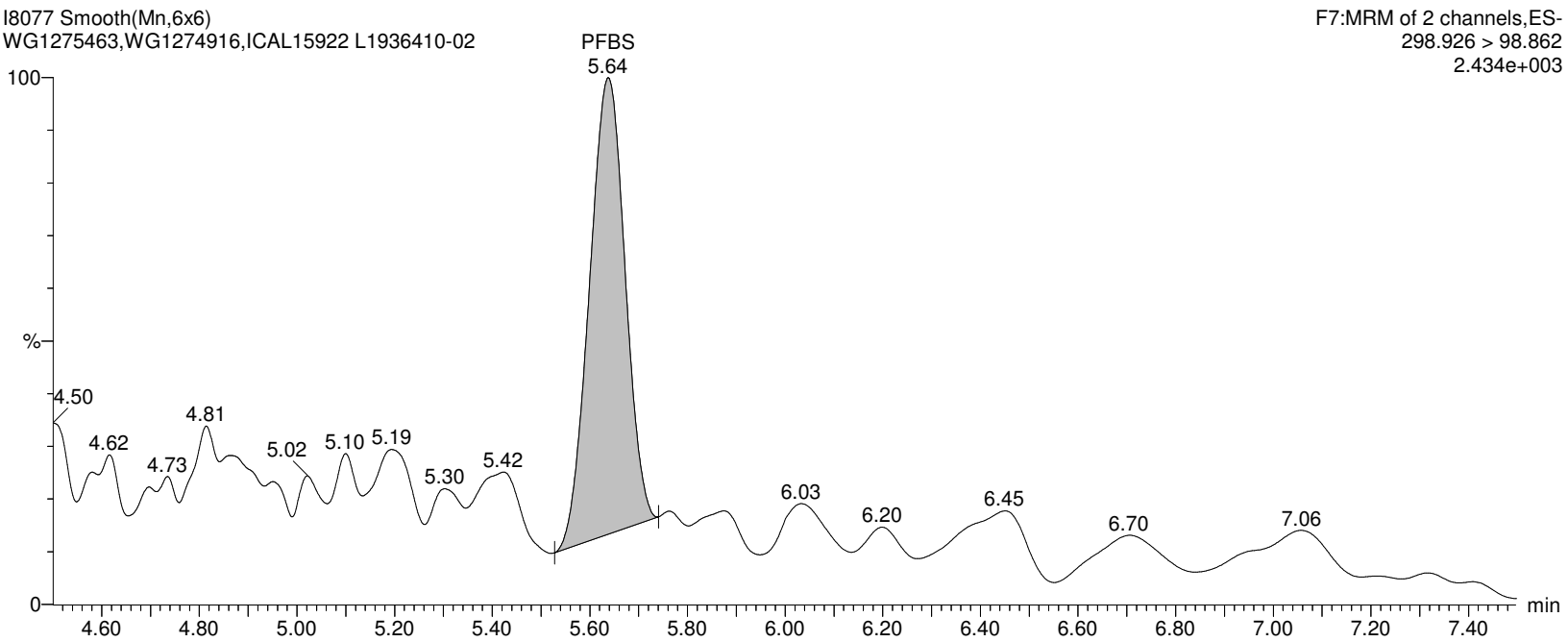
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PFBS



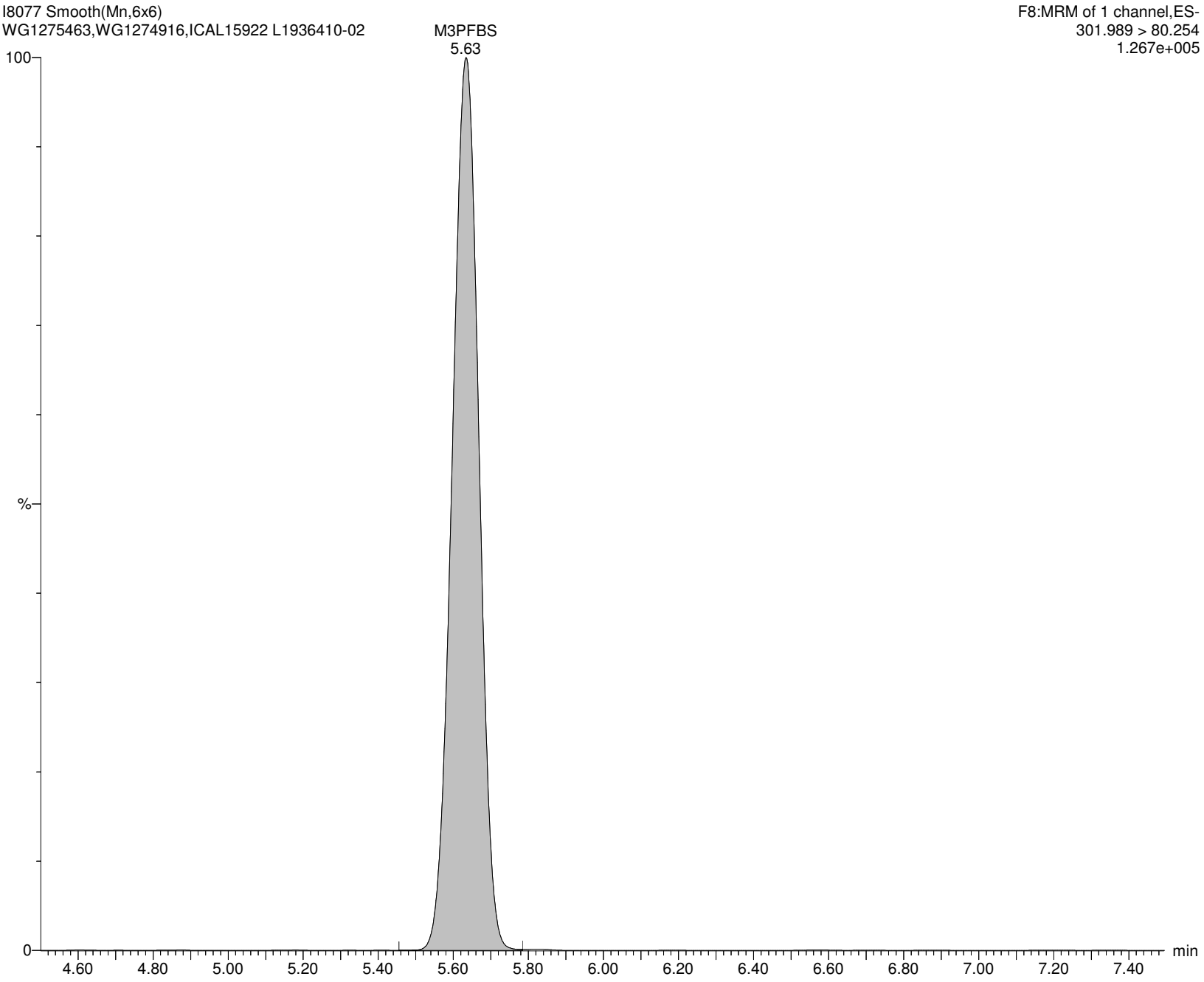


all concentration units in (ng/mL)

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M3PFBS

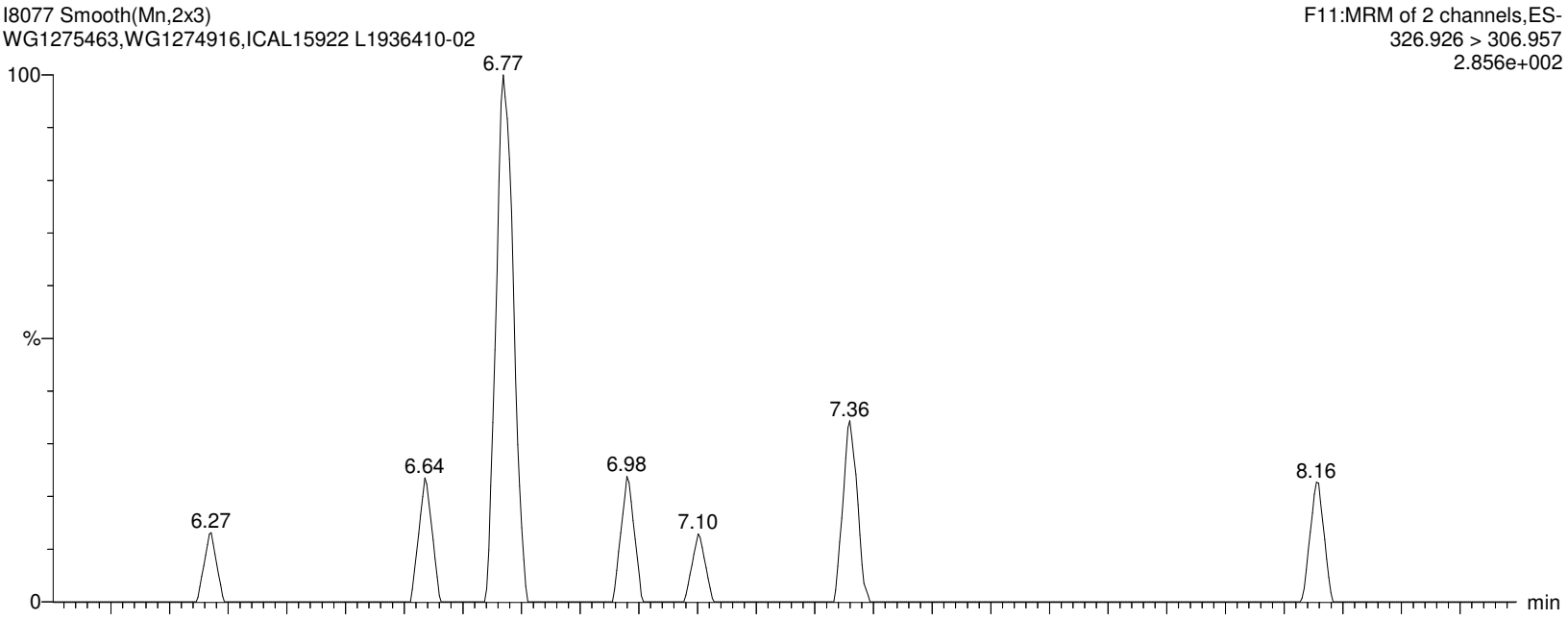


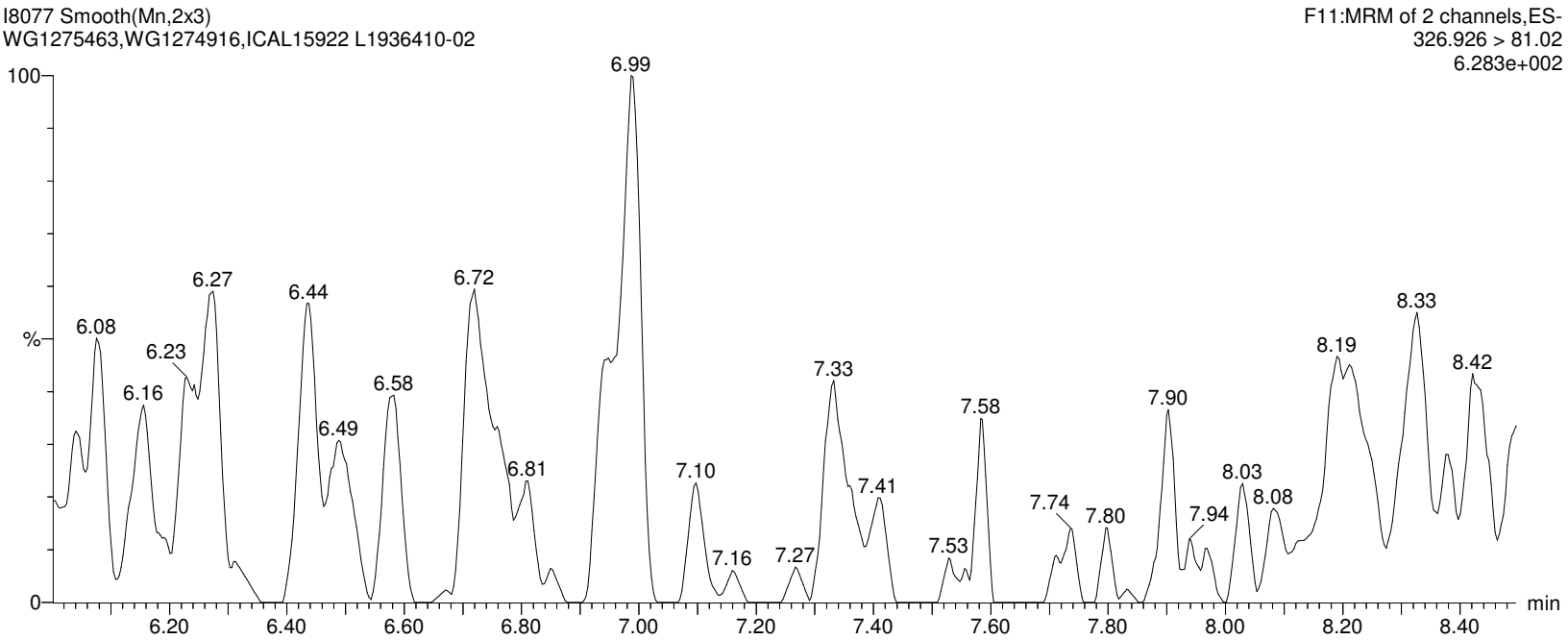
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4:2FTS



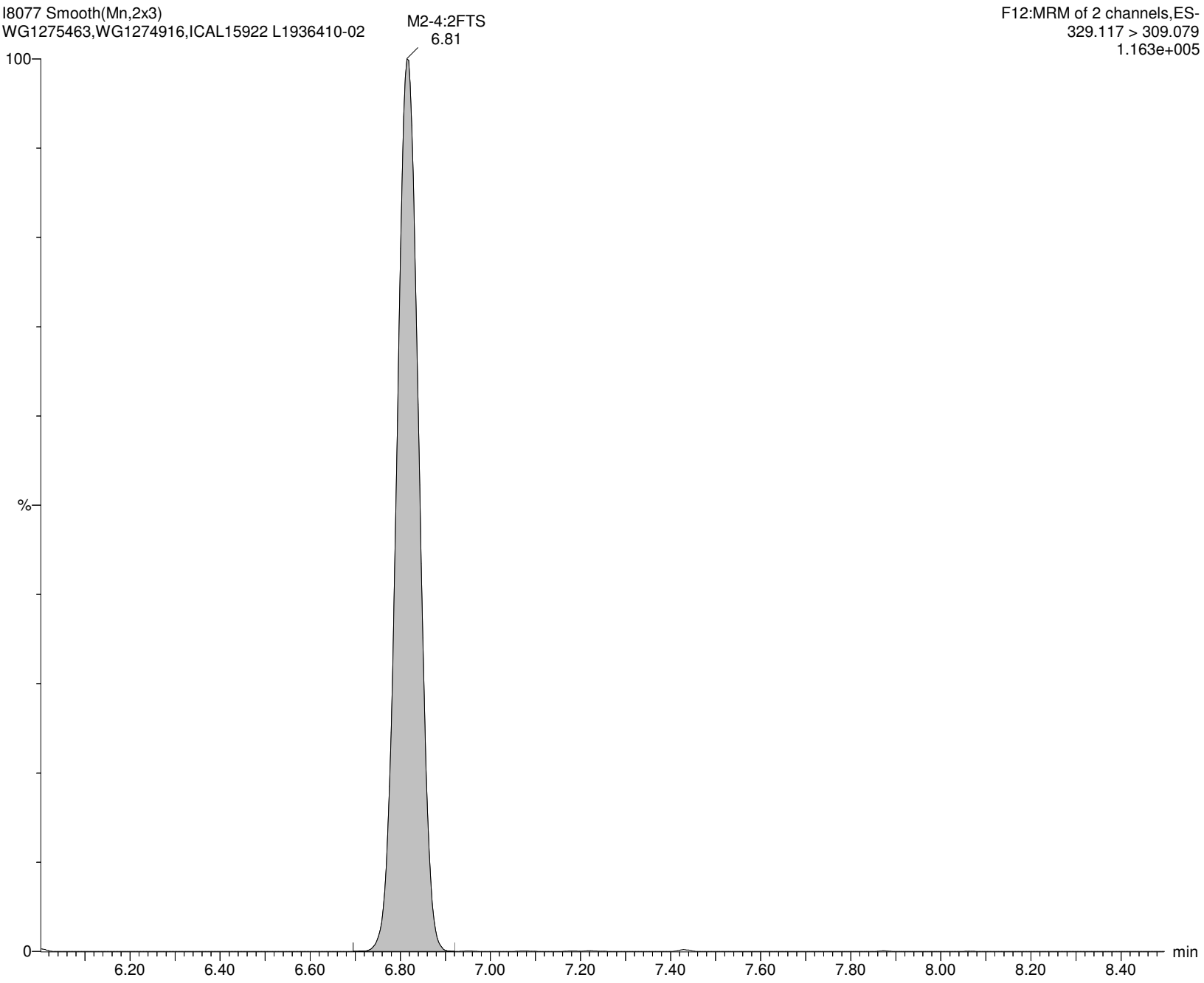


all concentration units in (ng/mL)

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M2-4:2FTS

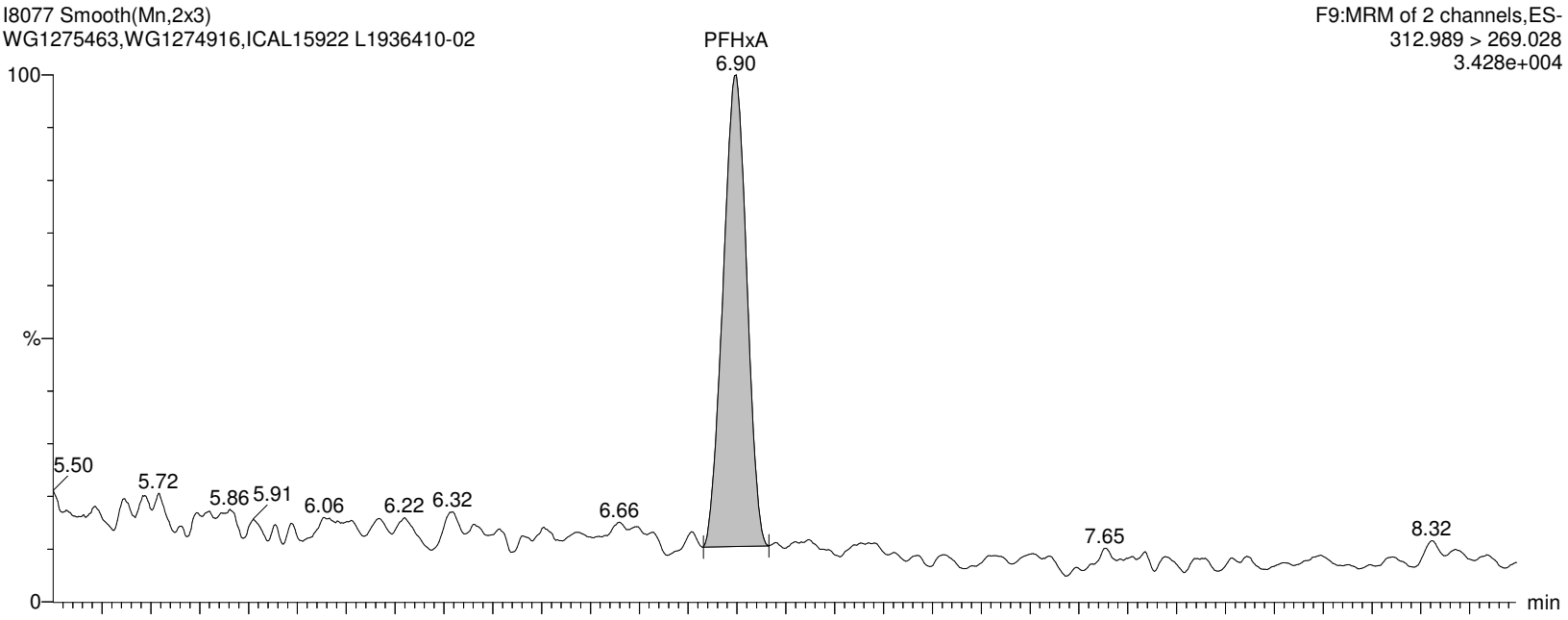


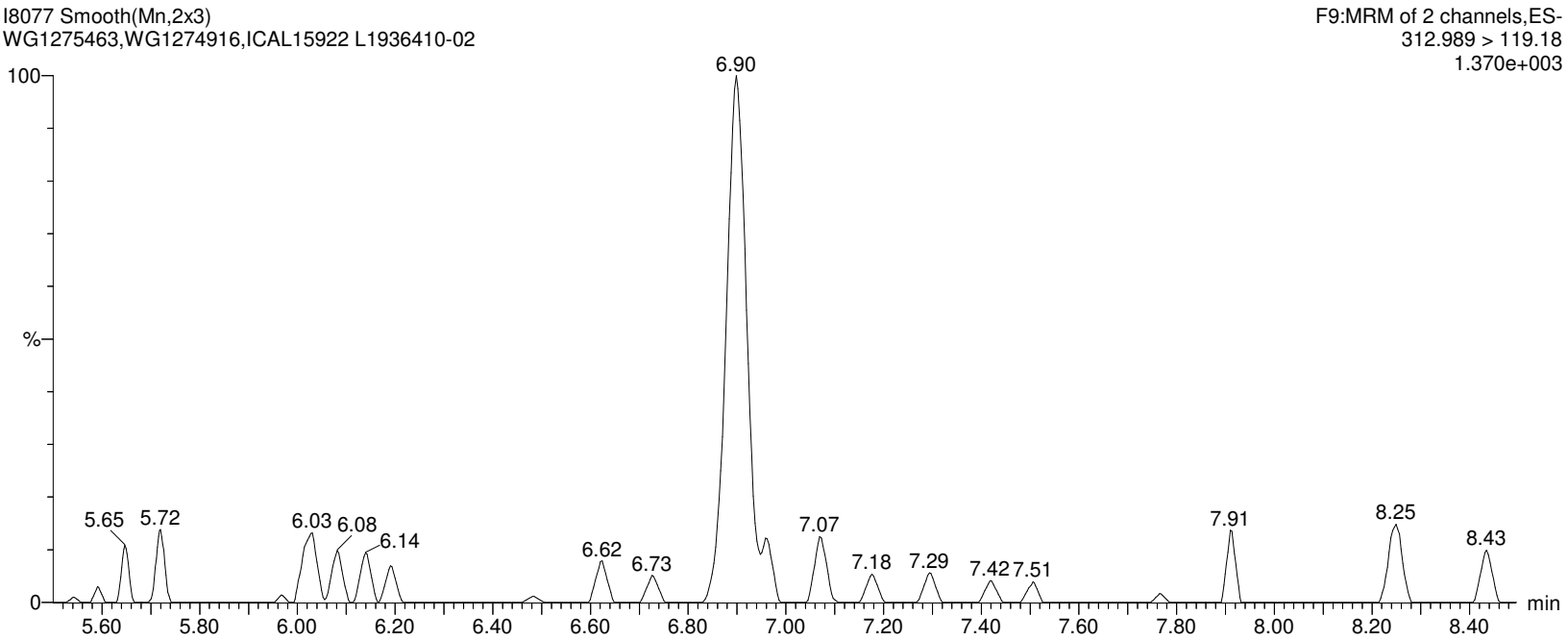
all concentration units in (ng/mL)

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PFHxA



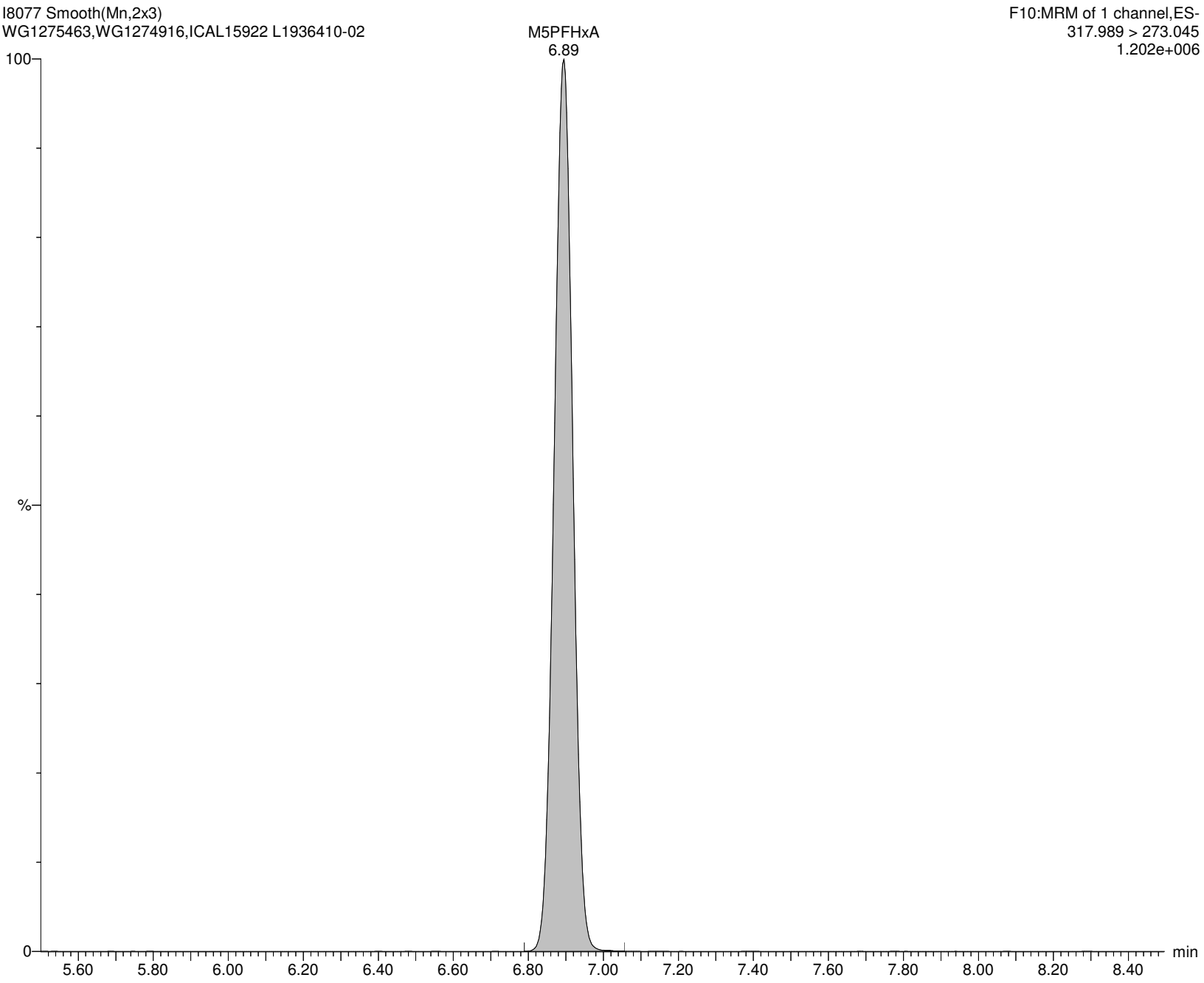


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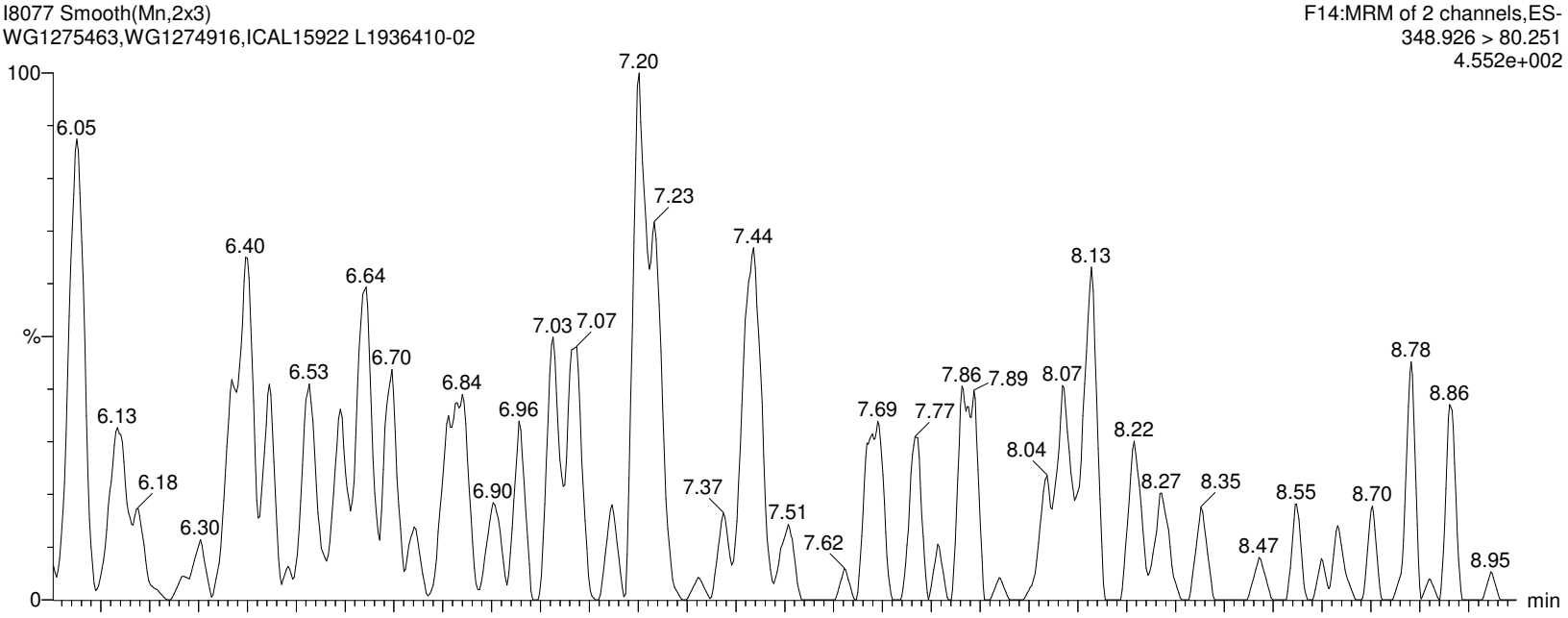


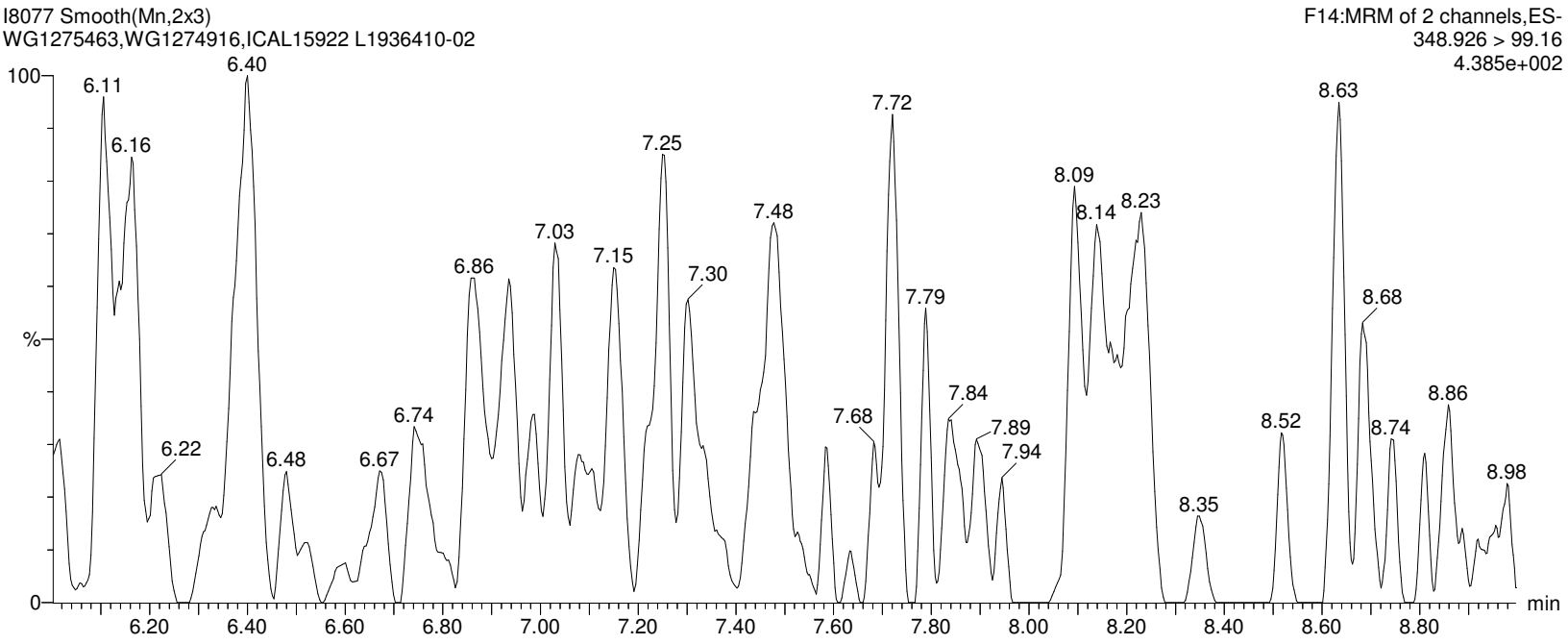
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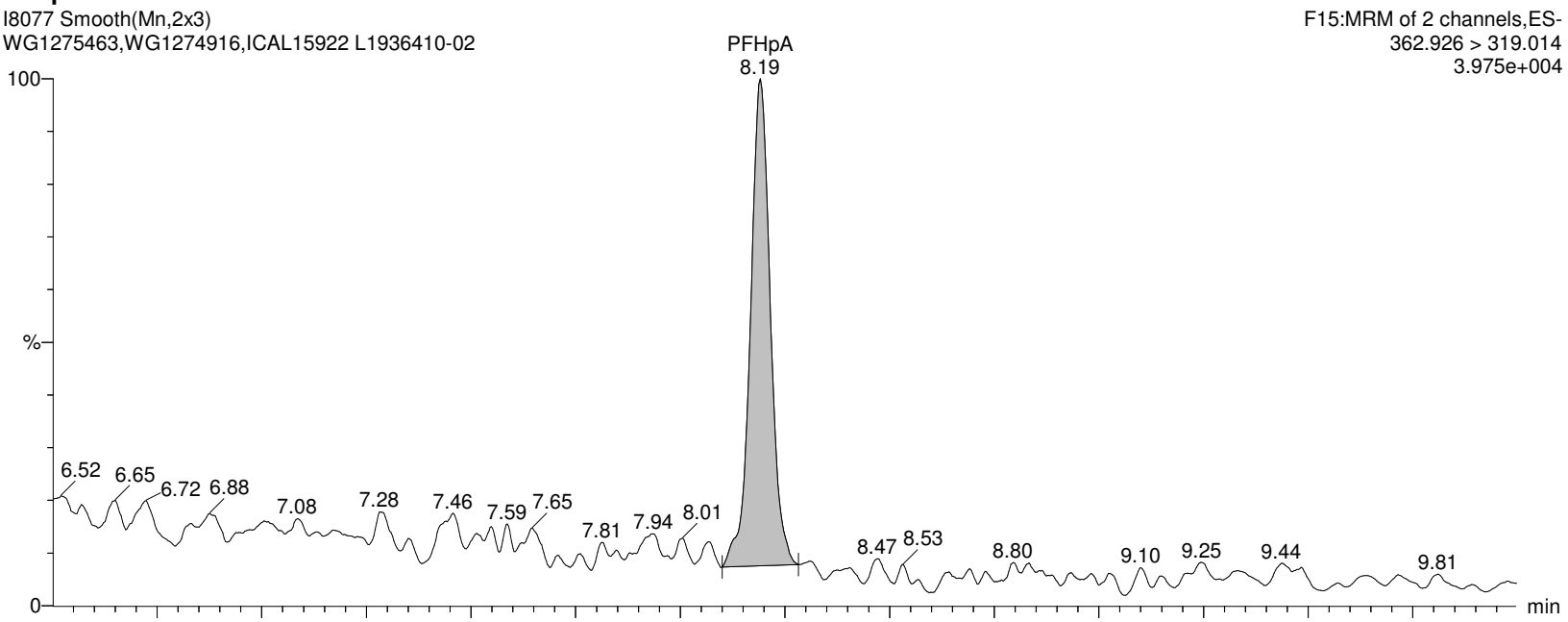


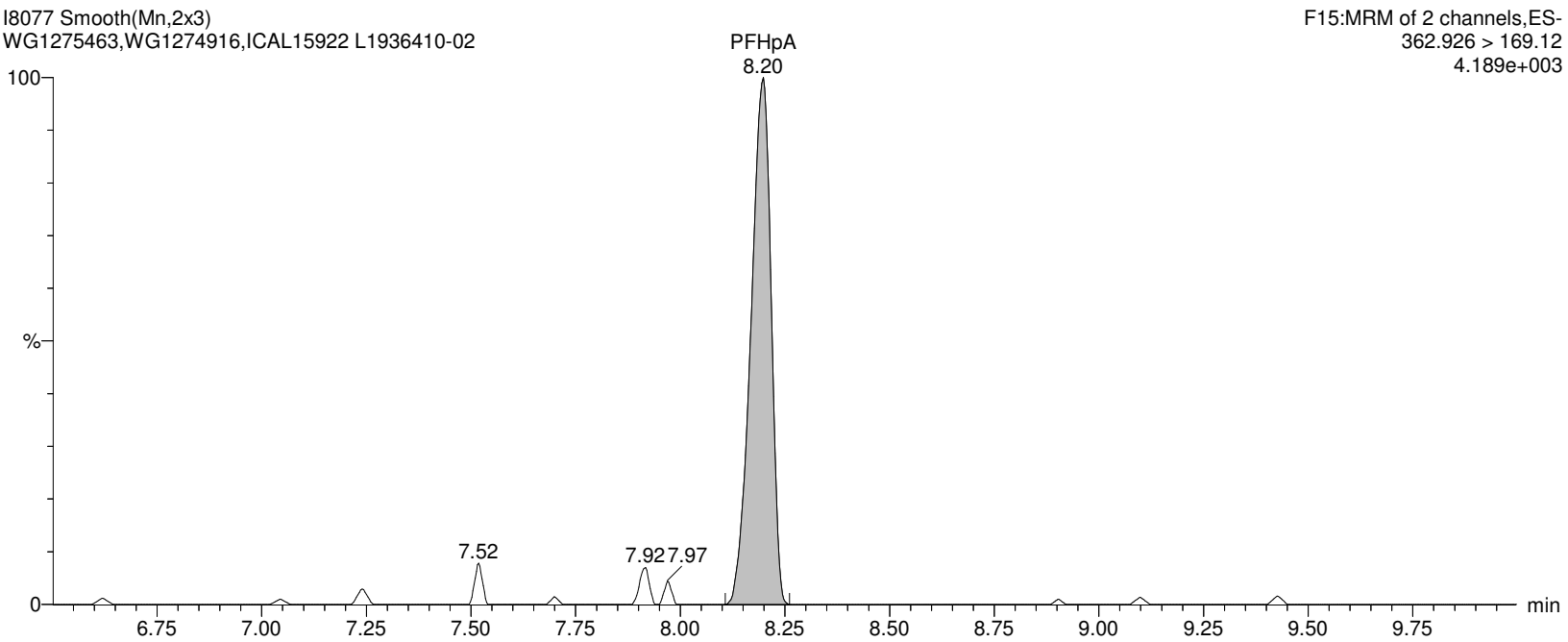
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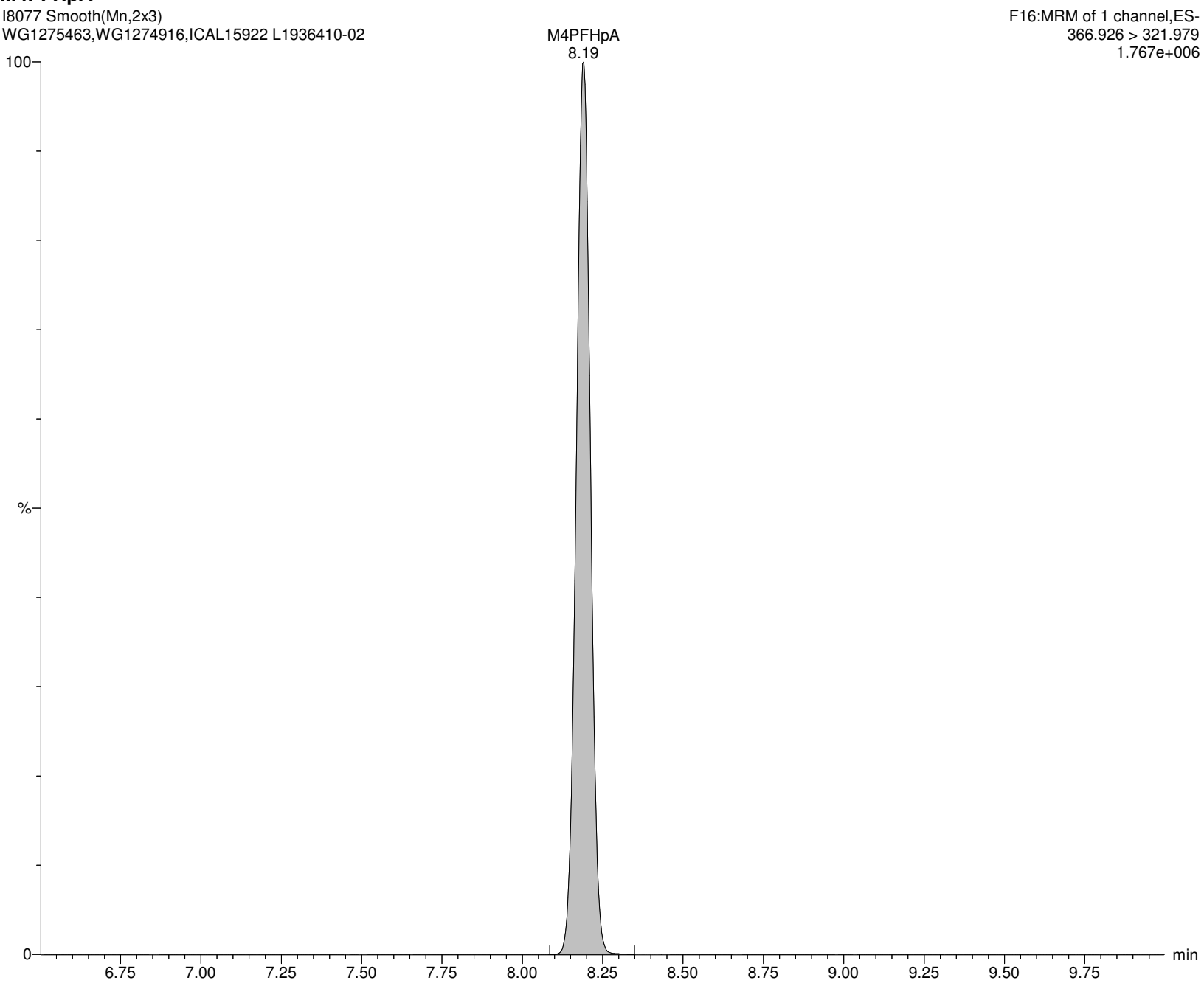


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User: LCMS02:JW
Vial: 1:C,7
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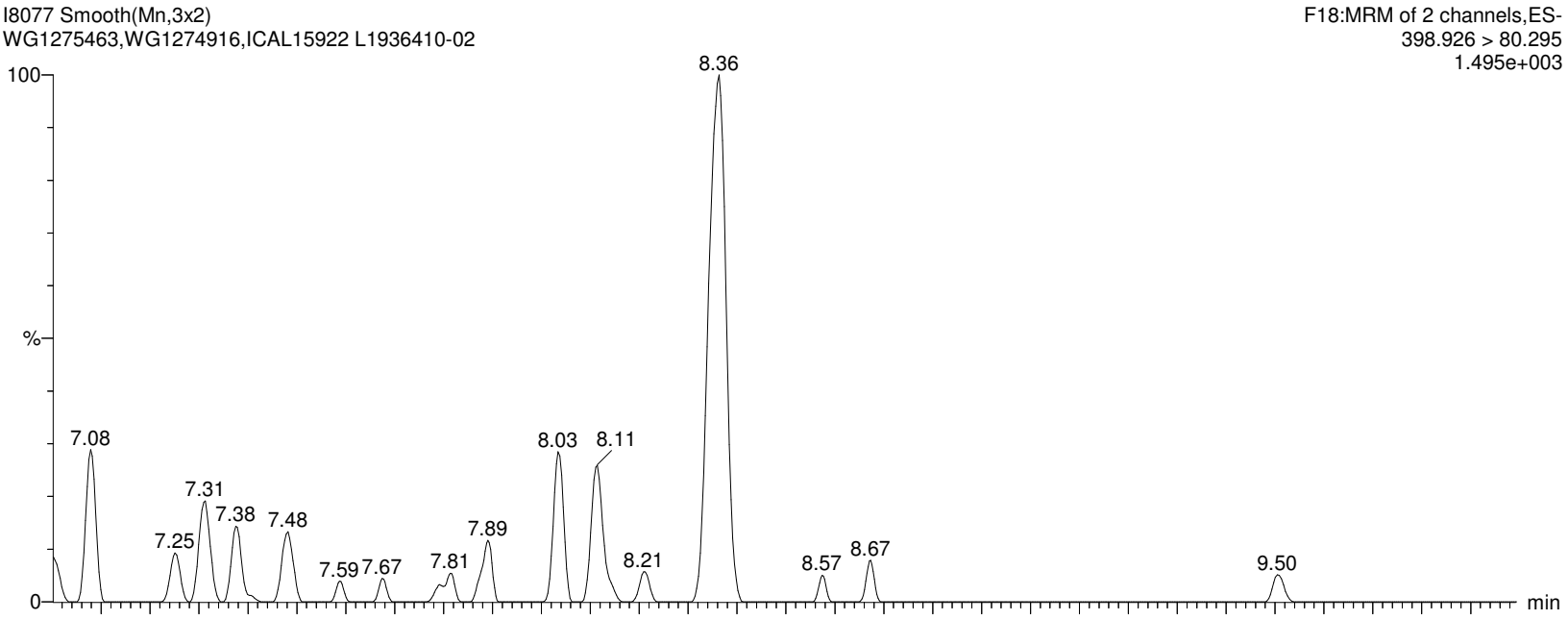


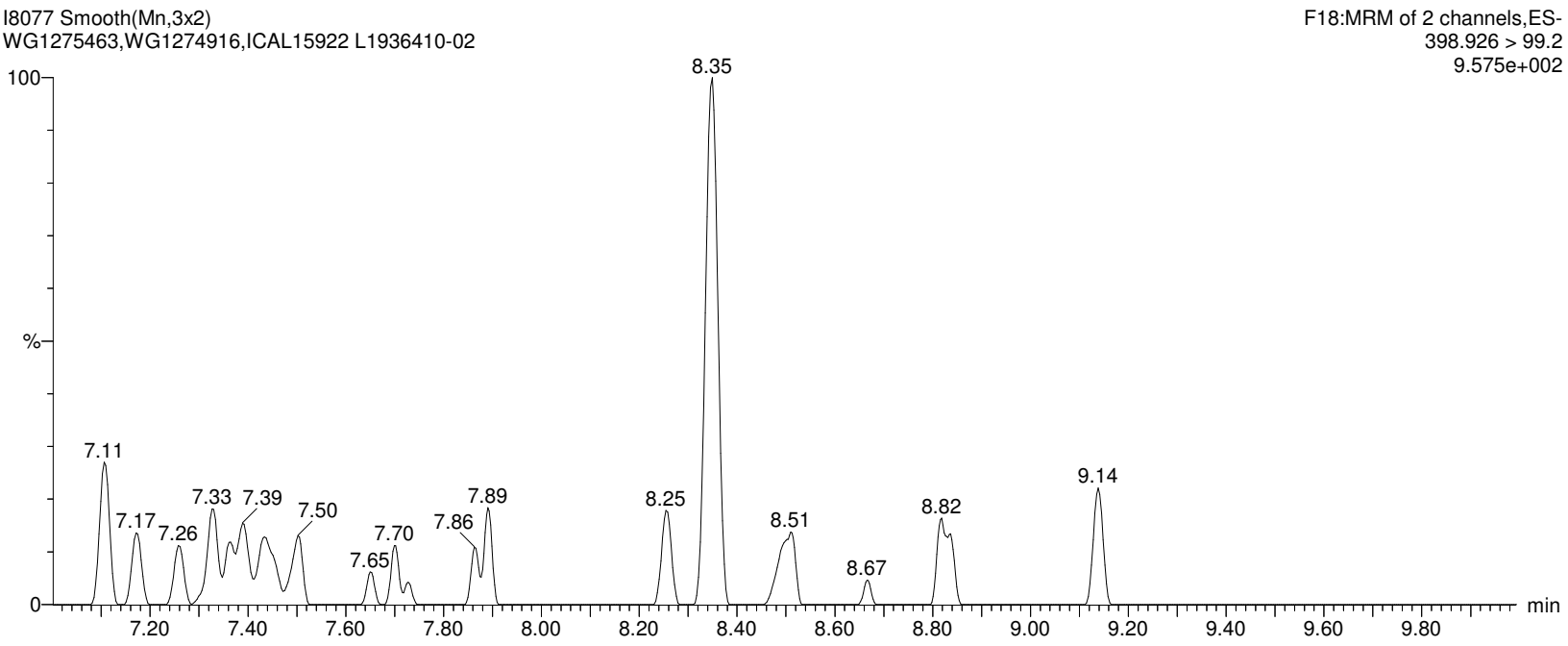
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, August 23, 2019 09:51:17 Eastern Daylight Time
Printed: Friday, August 23, 2019 09:51:31 Eastern Daylight Time

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ID: L1936410-02
Date: 22-Aug-2019
Time: 14:58:12
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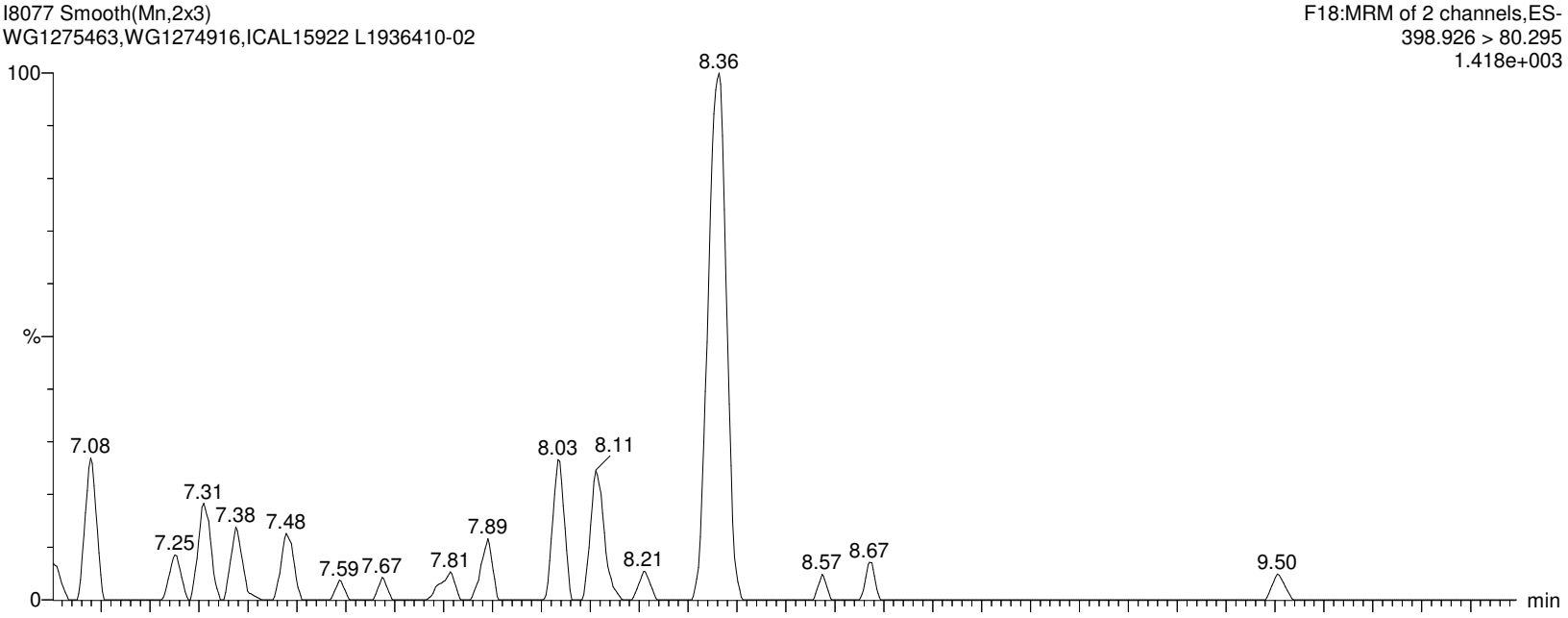


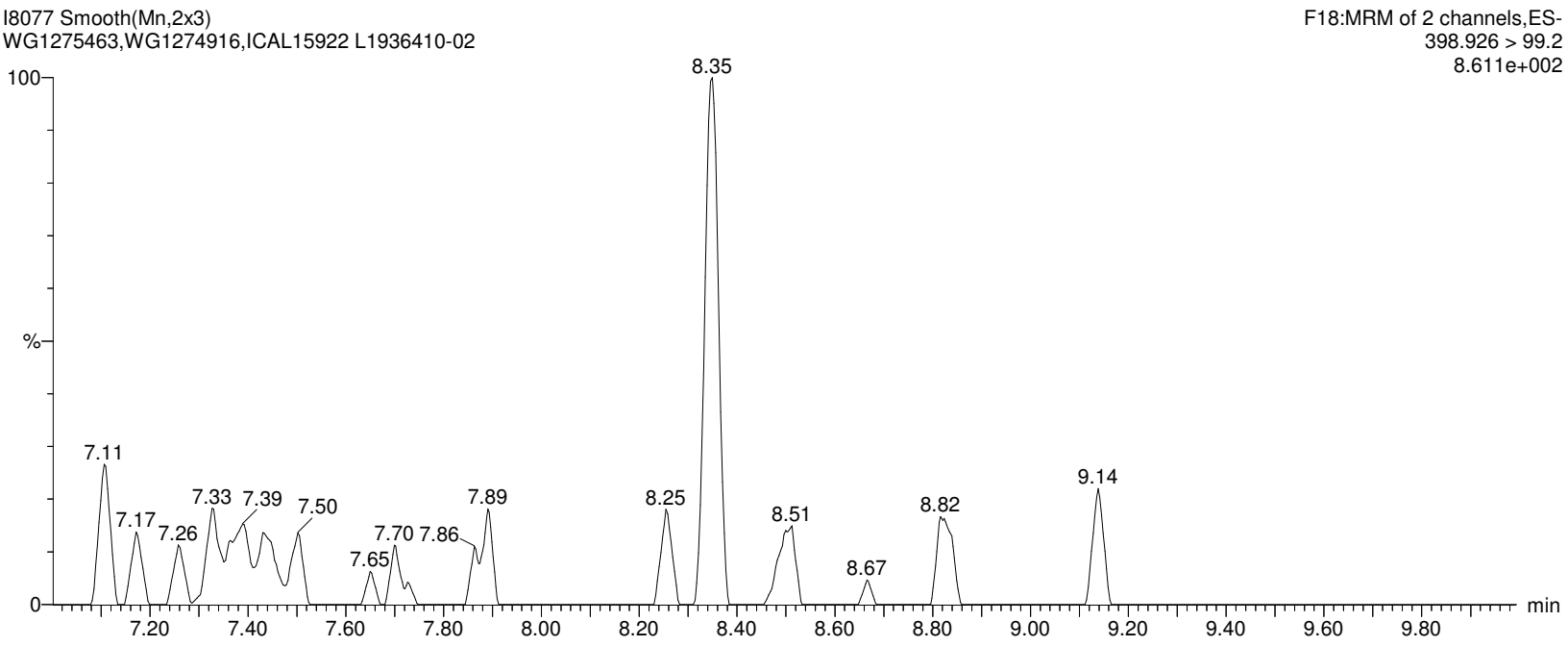
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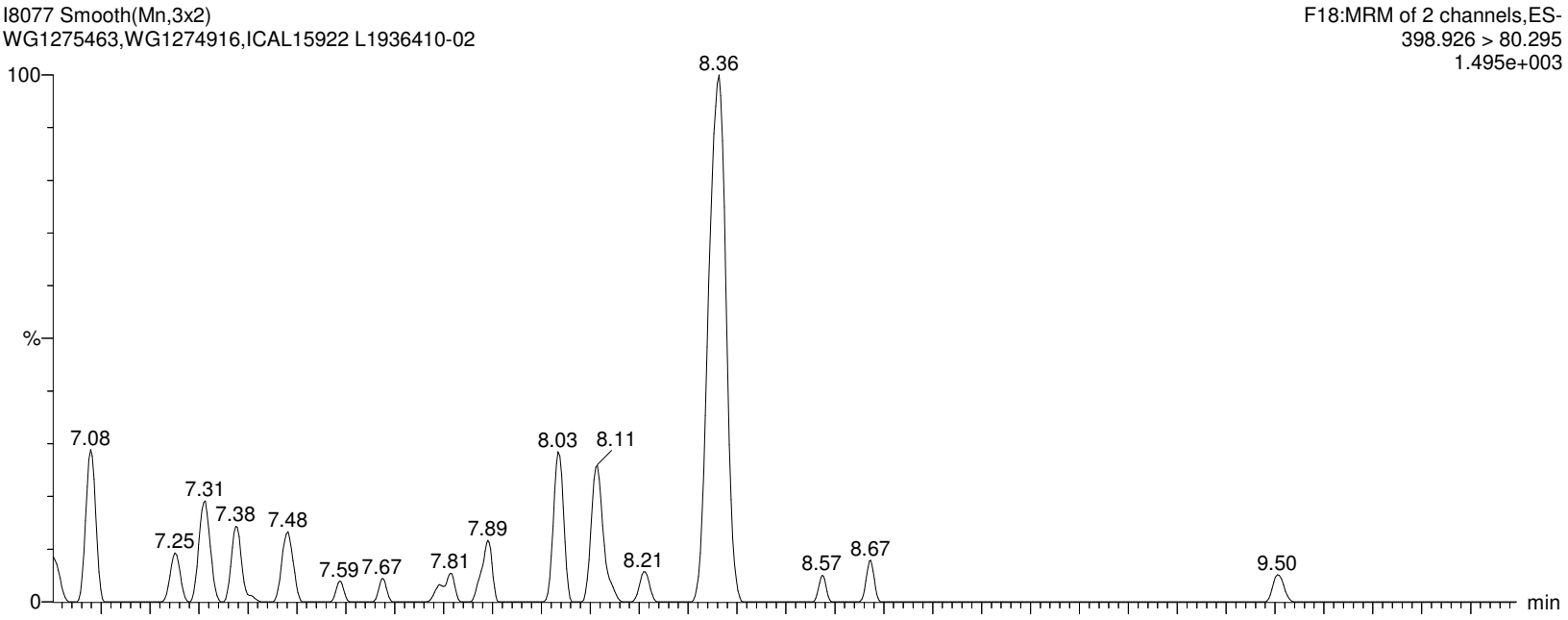


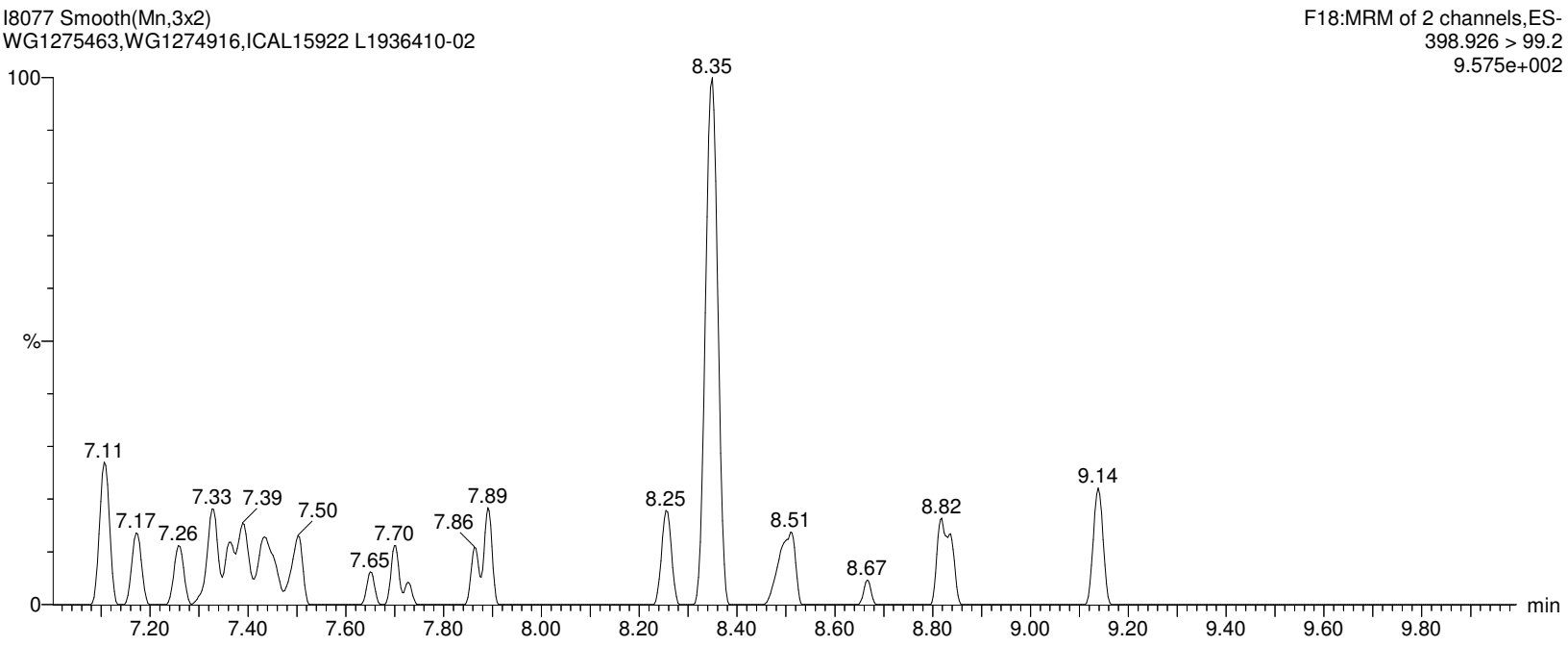
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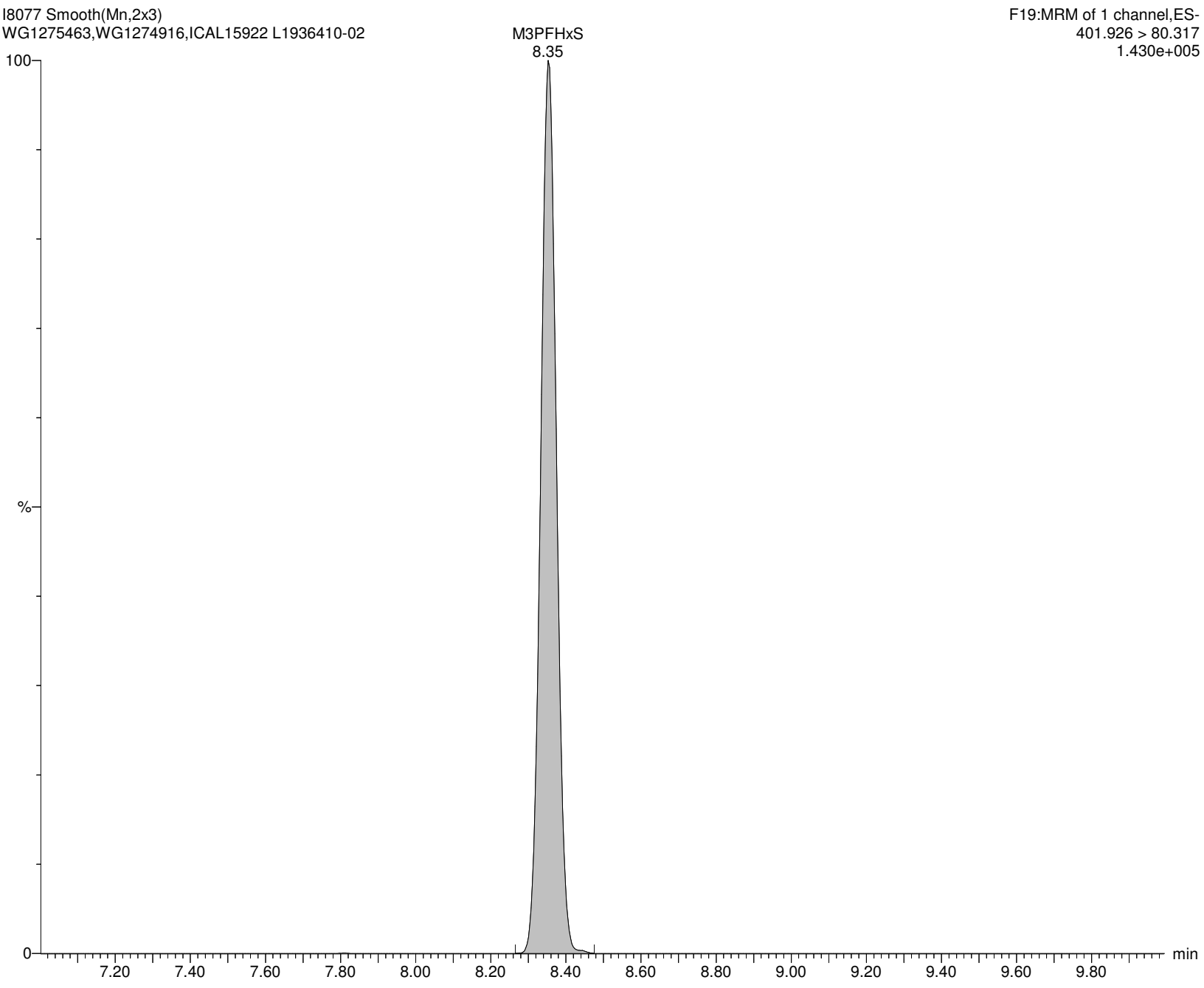


all concentration units in (ng/mL)

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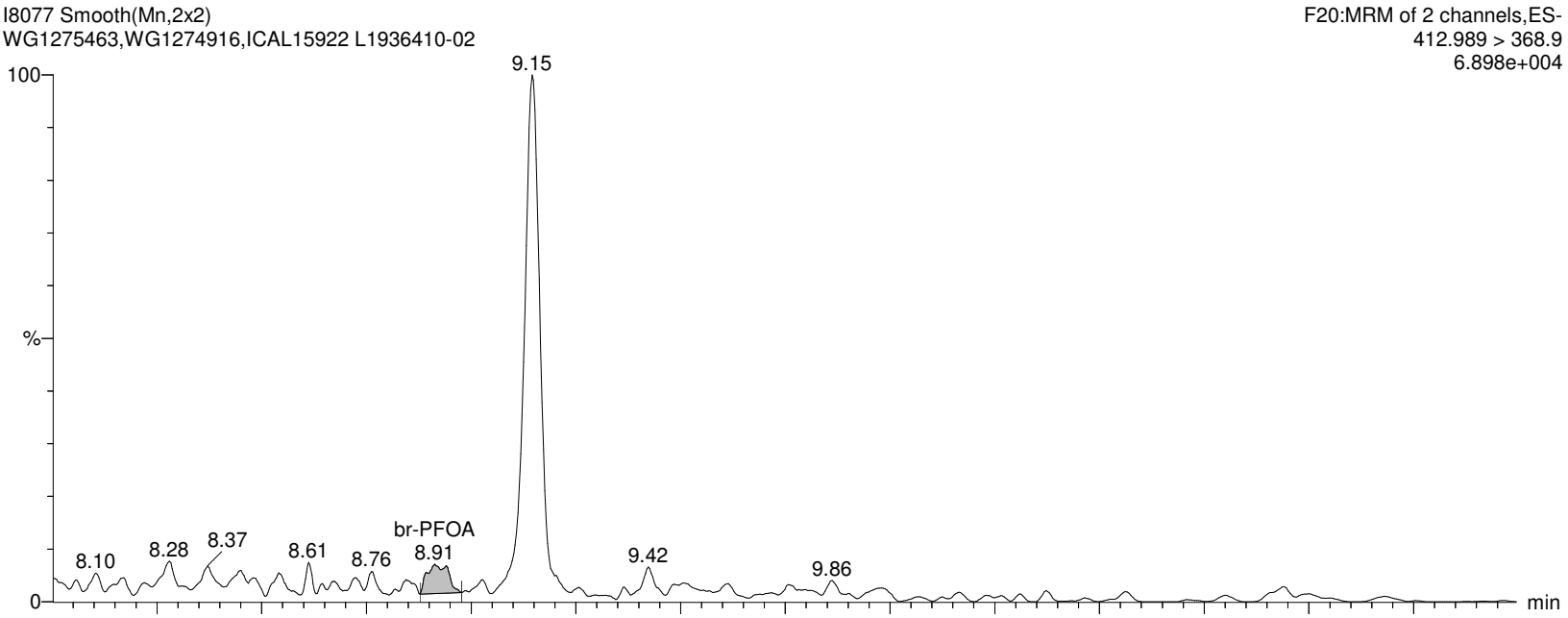


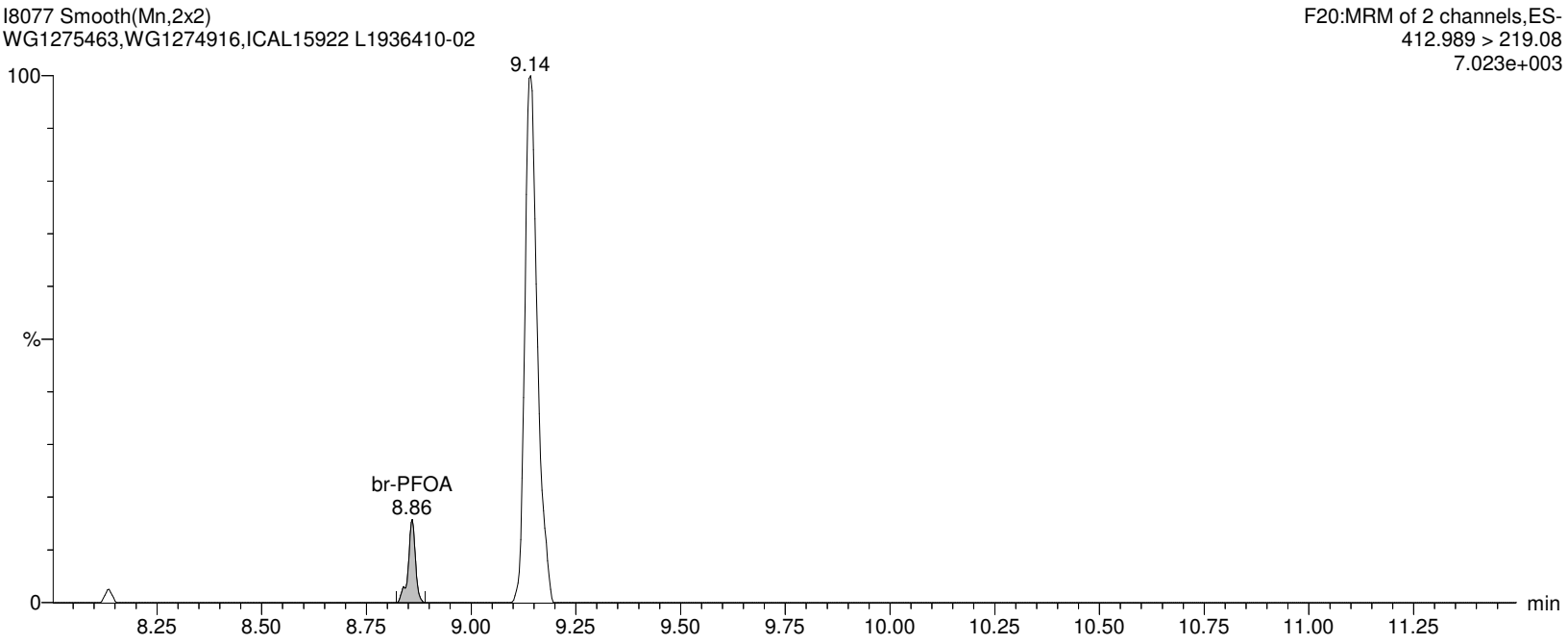
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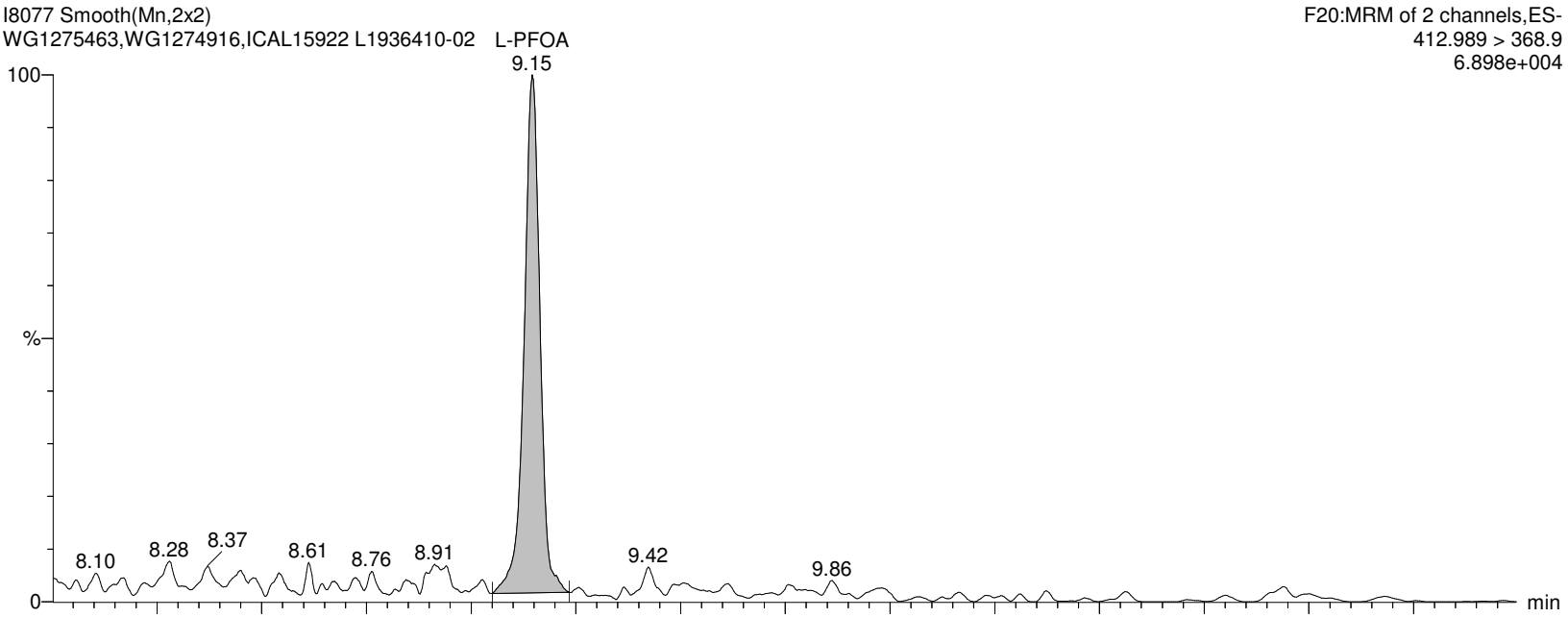


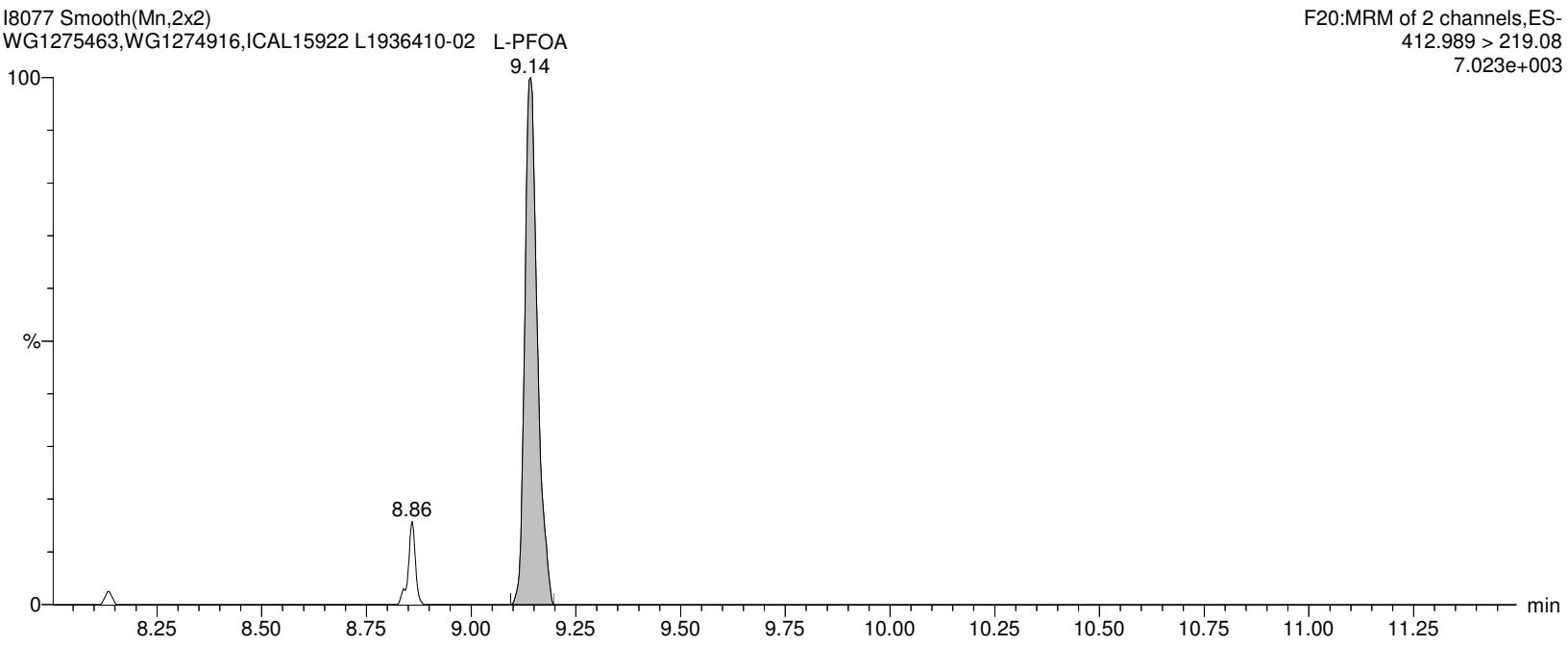
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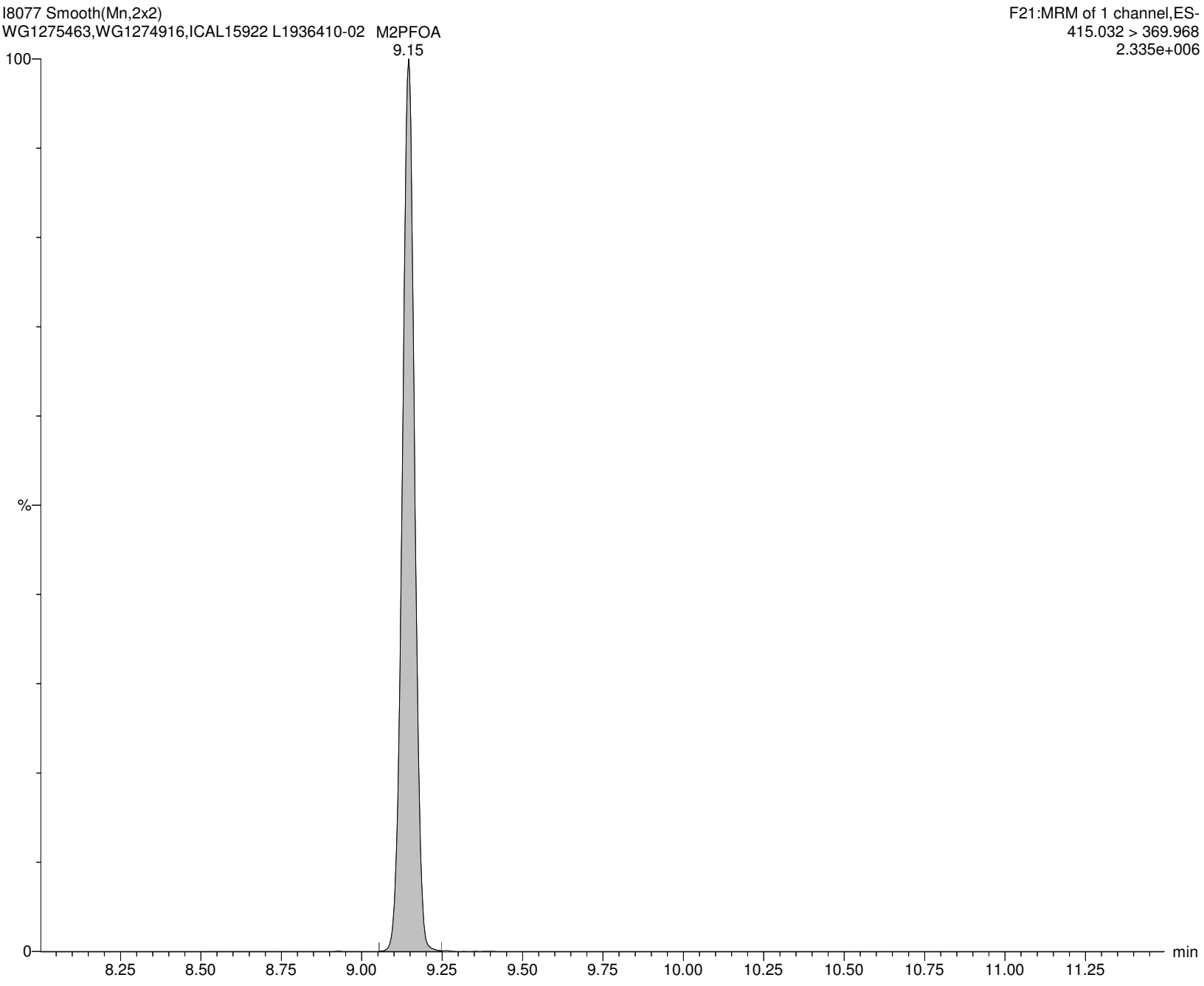


all concentration units in (ng/mL)

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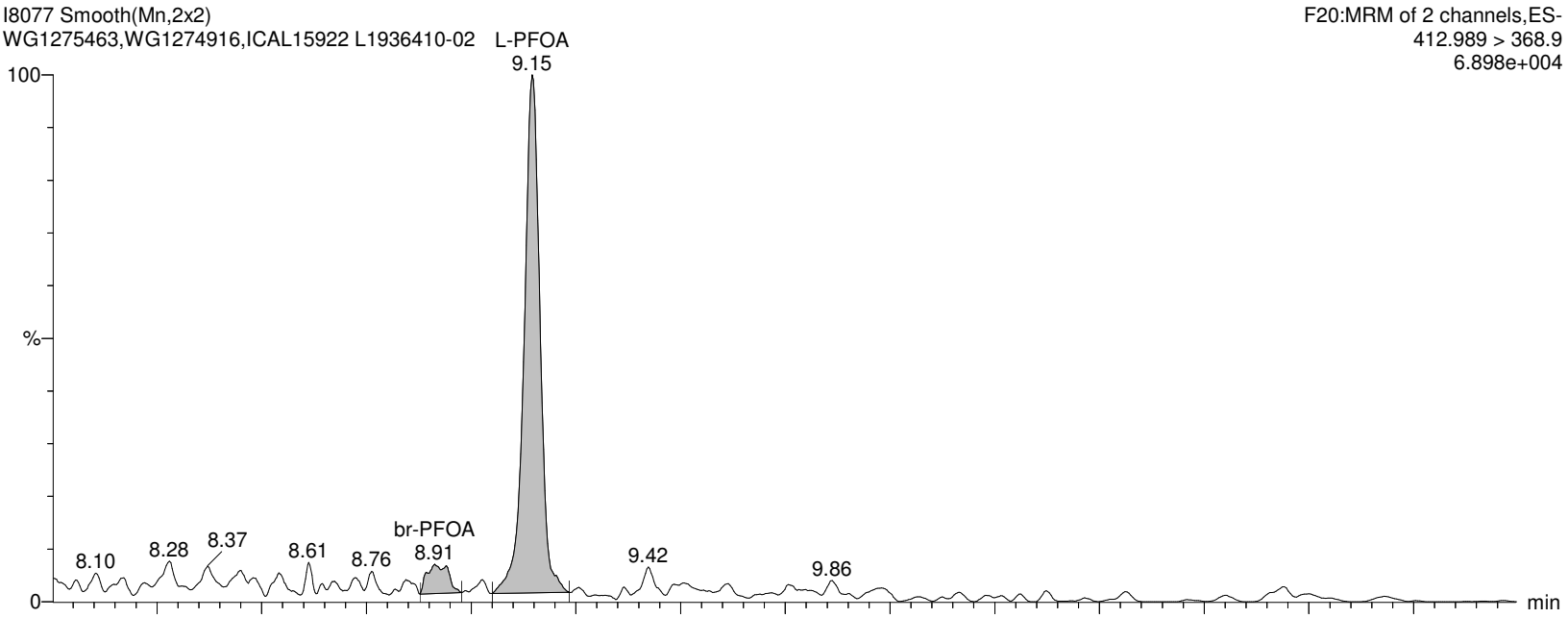


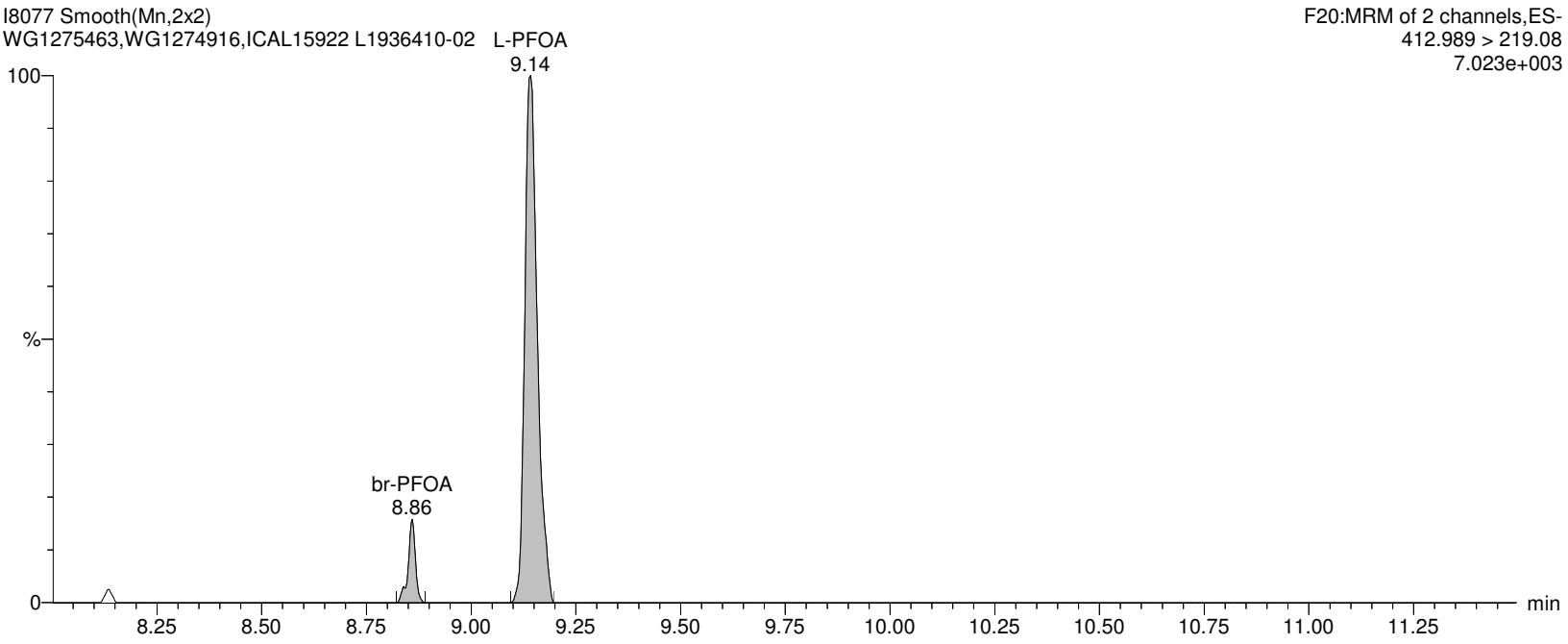
all concentration units in (ng/mL)

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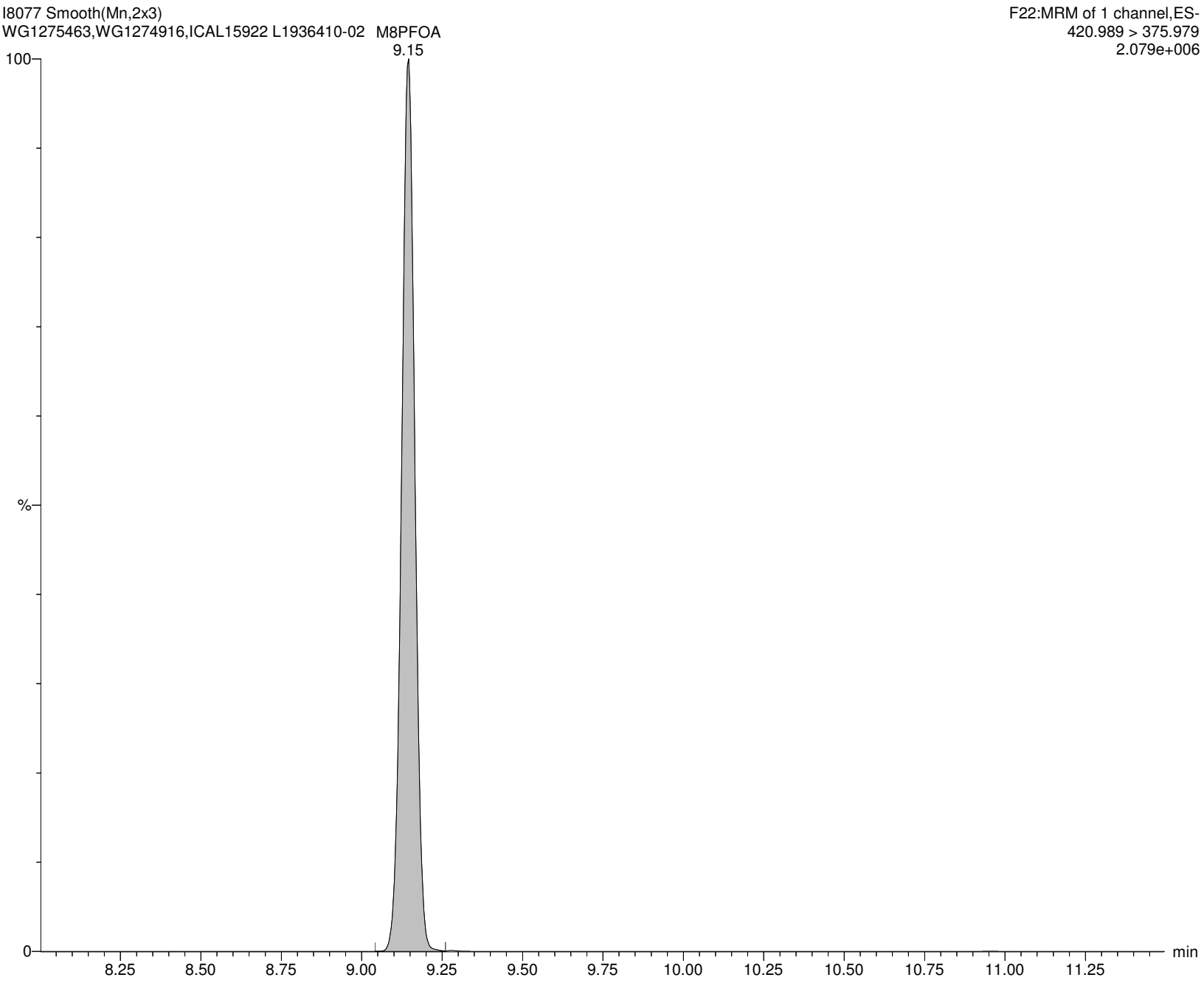


all concentration units in (ng/mL)

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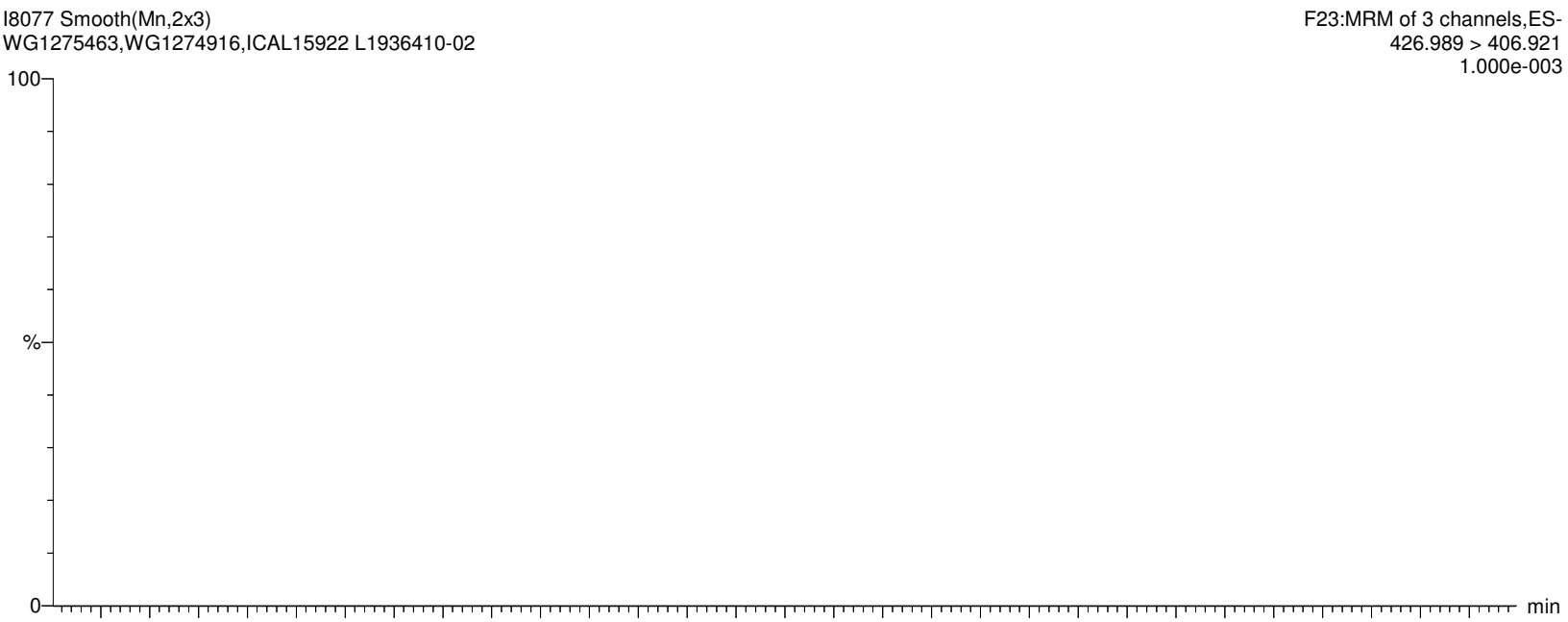


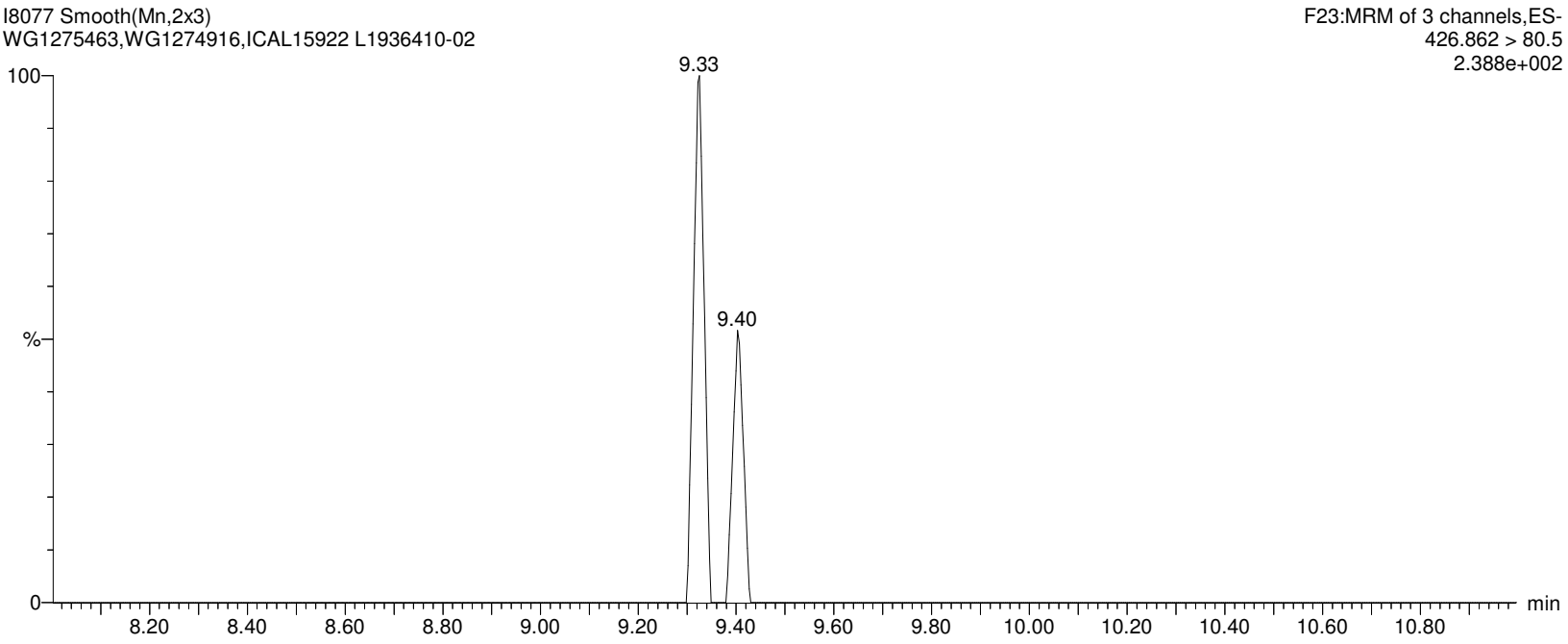
all concentration units in (ng/mL)

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6:2FTS



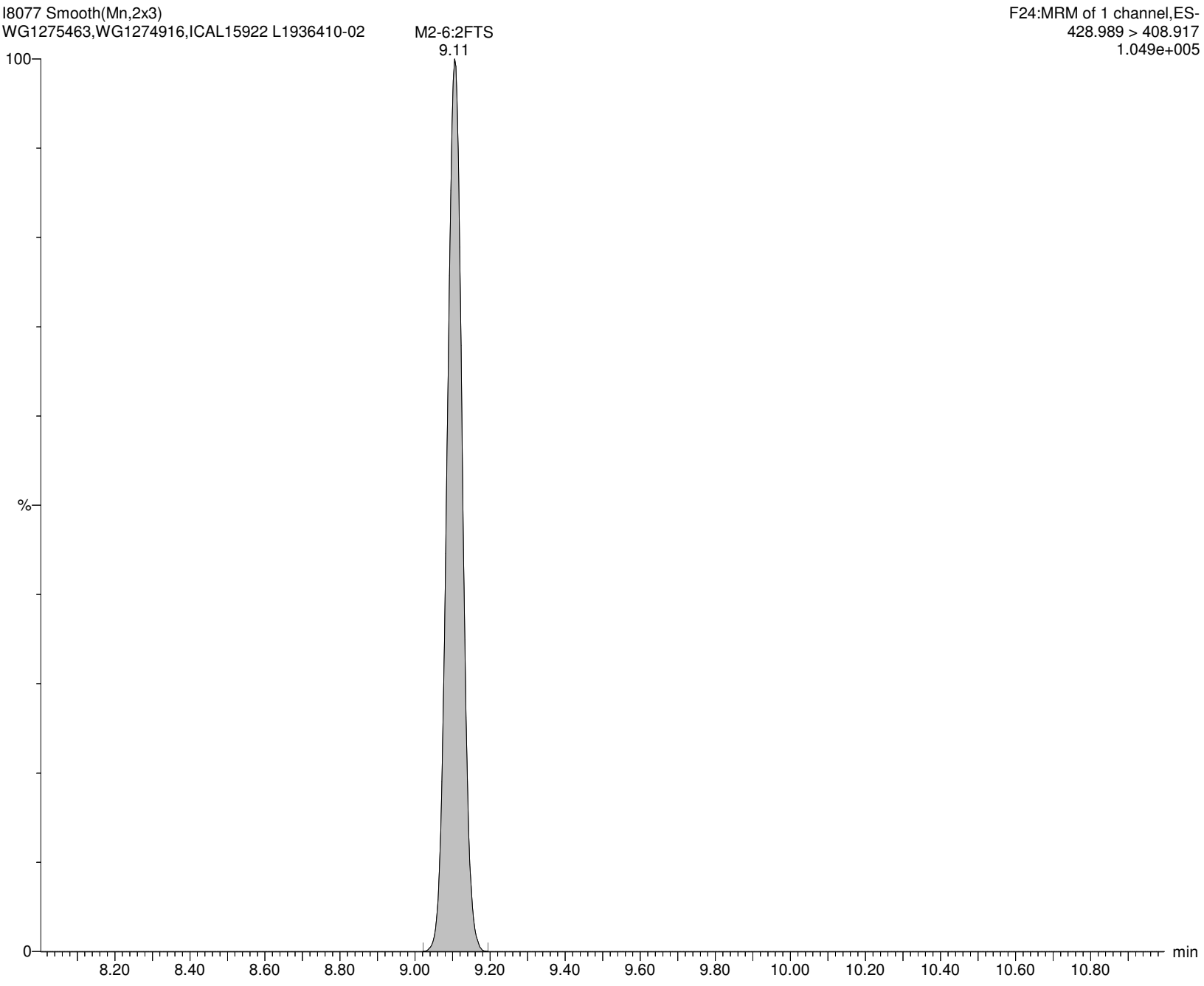


all concentration units in (ng/mL)

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M2-6:2FTS

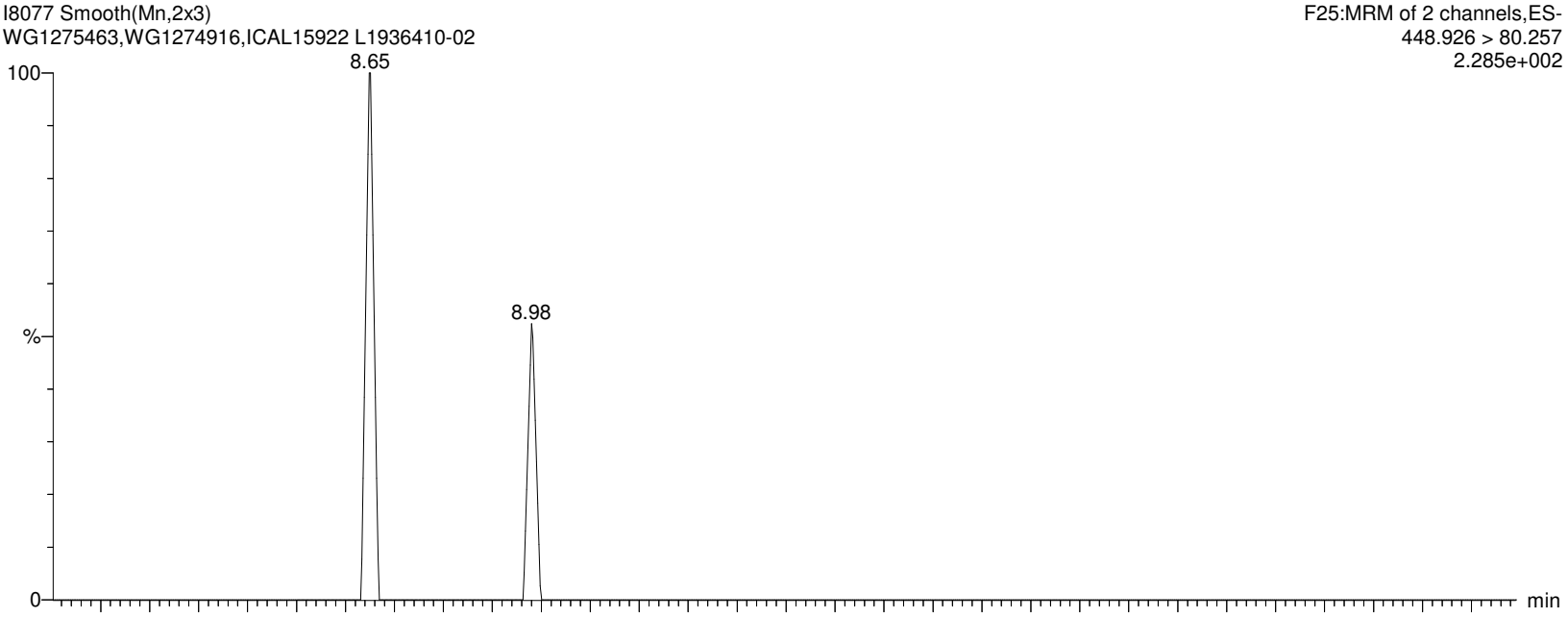


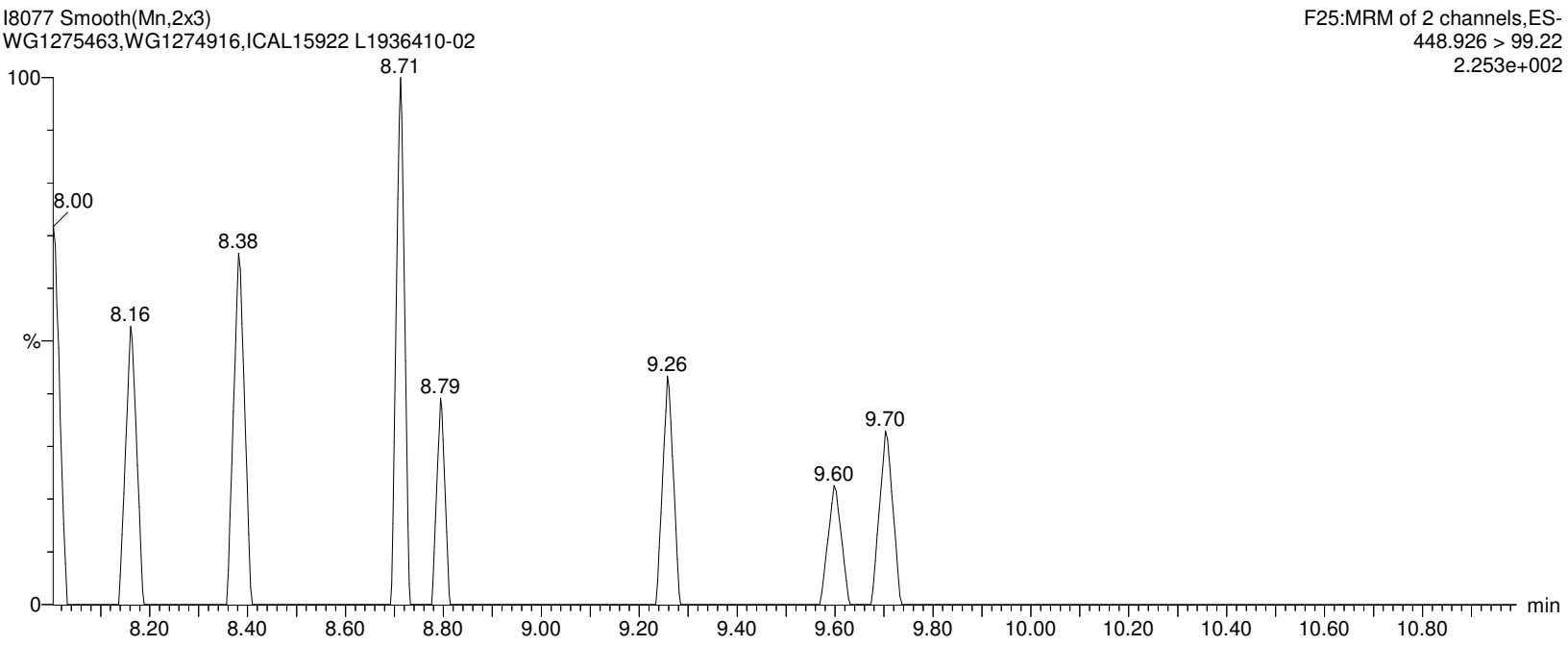
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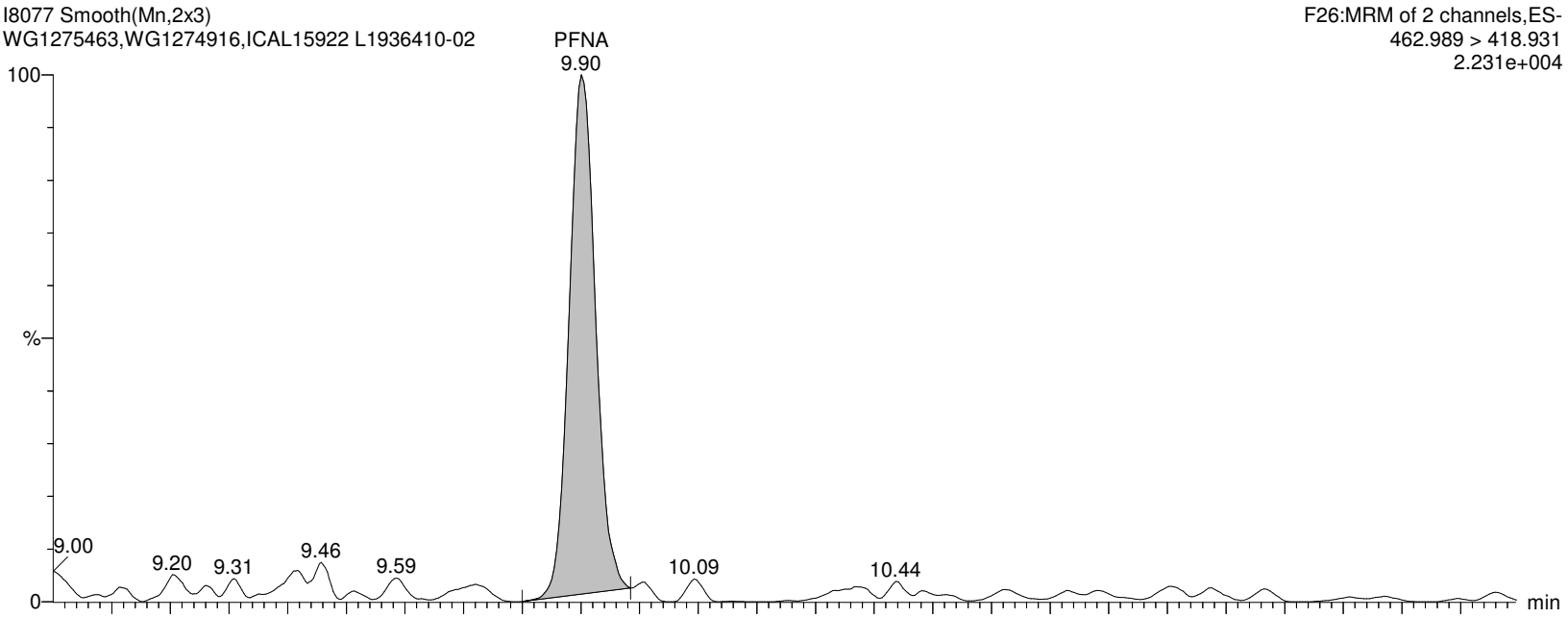


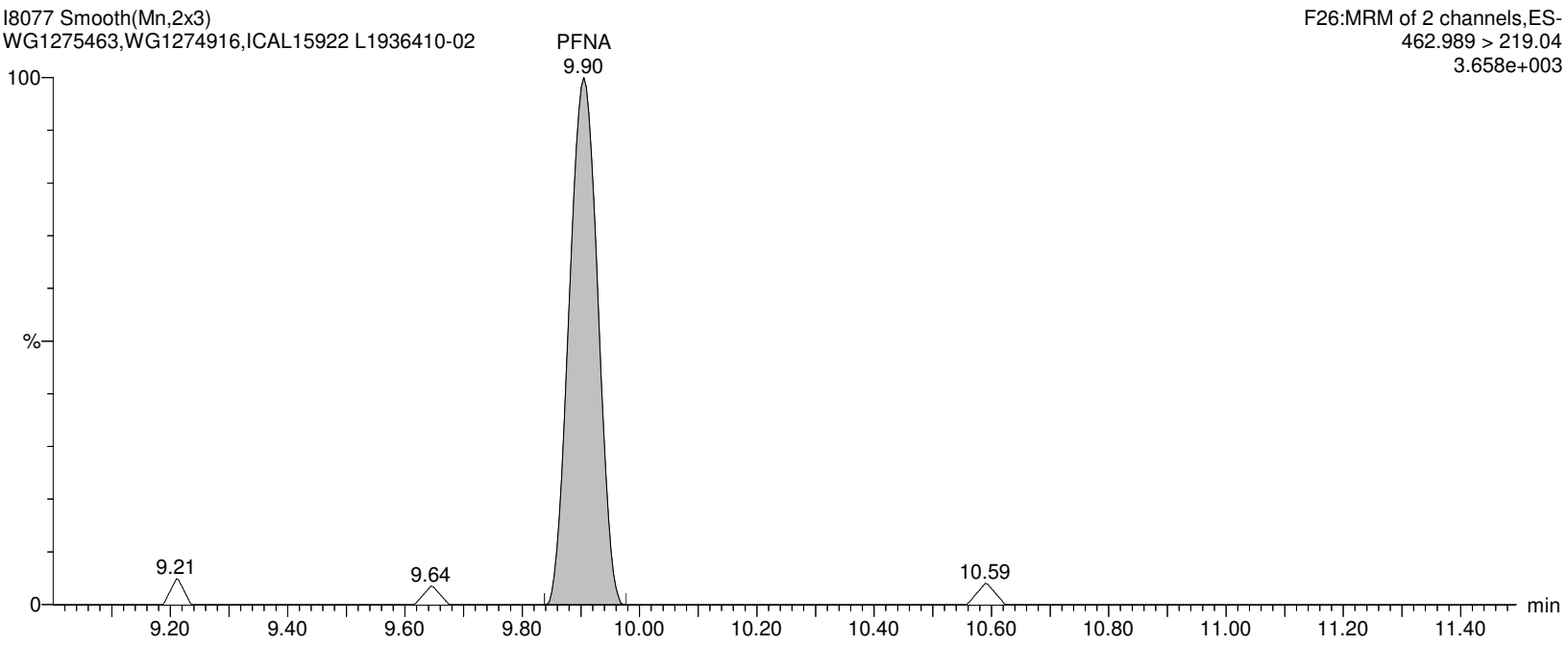
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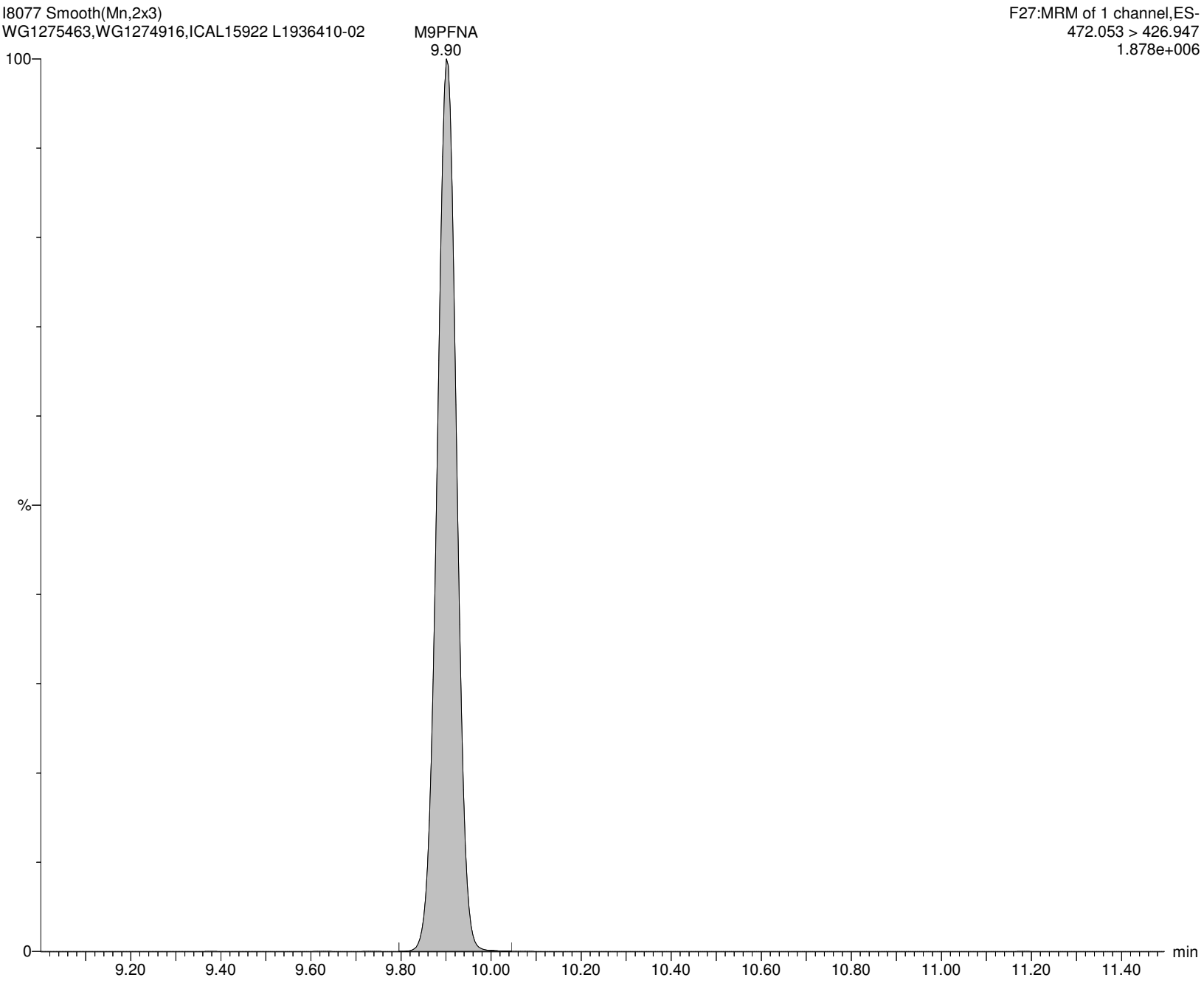


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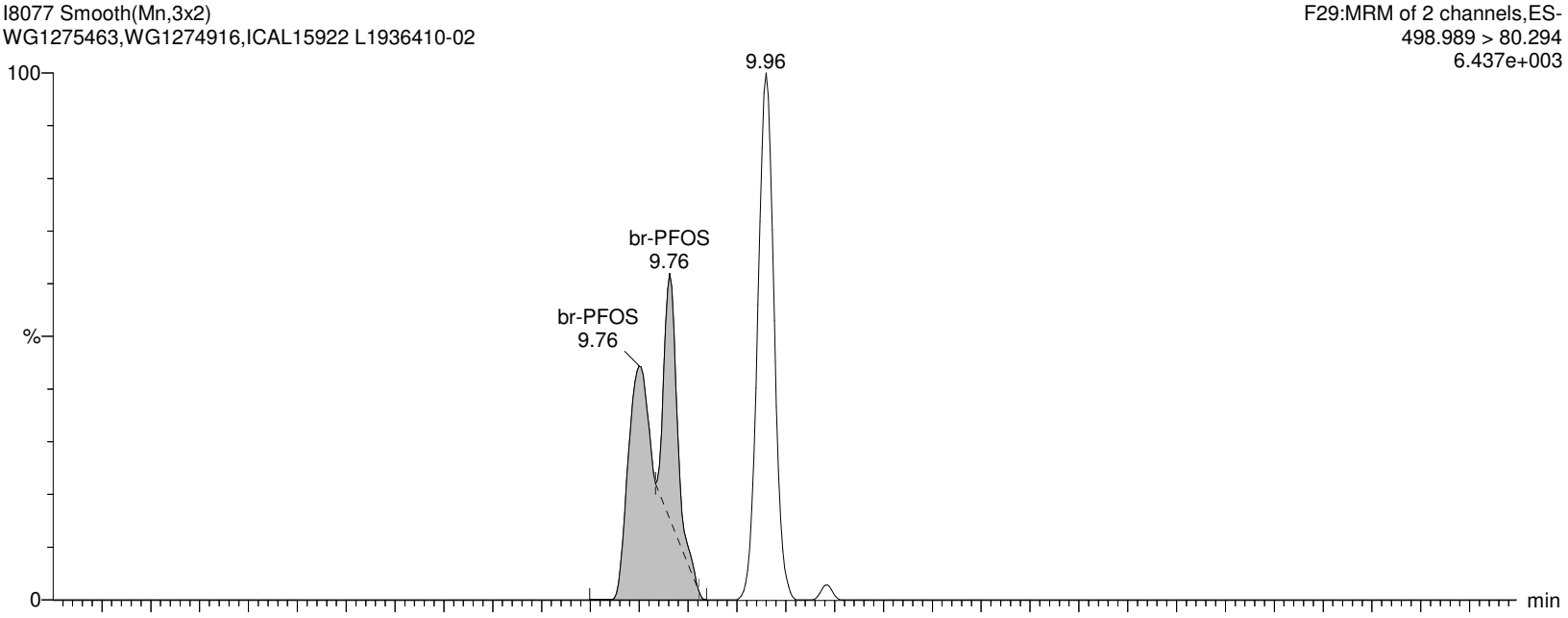


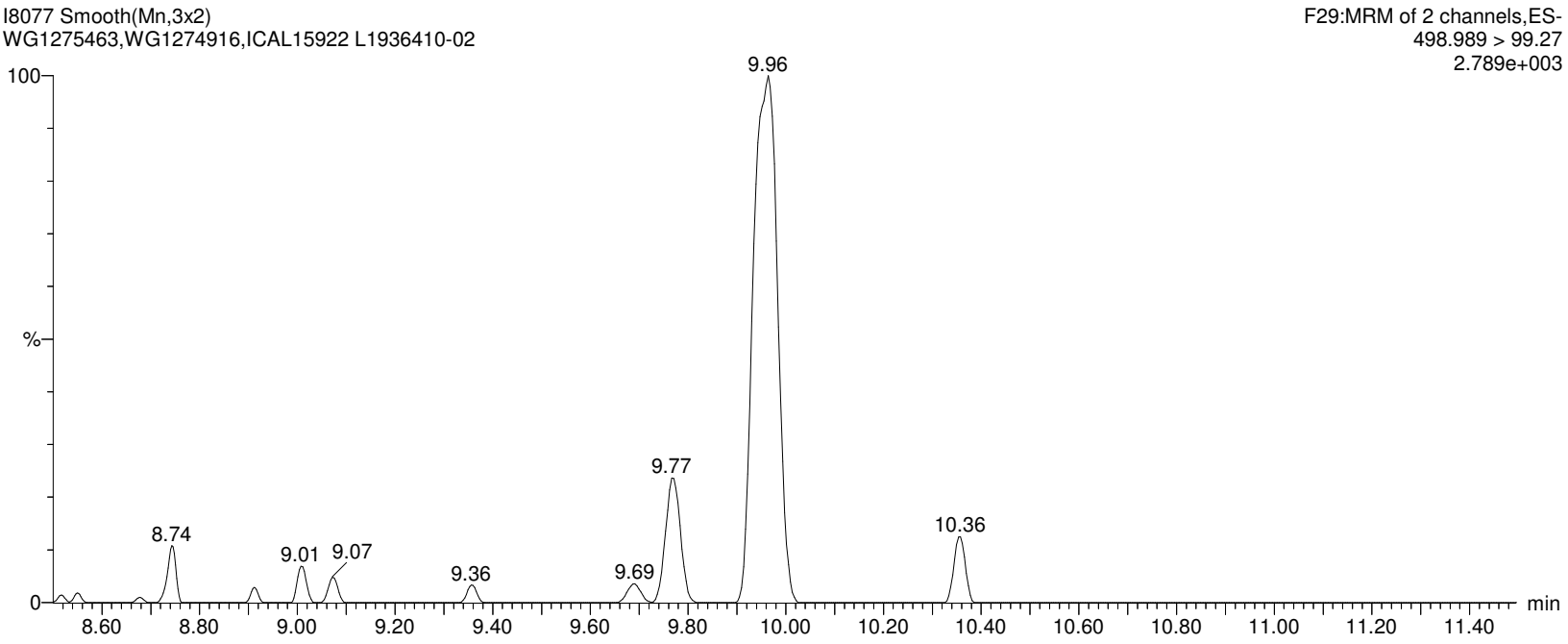
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ID: L1936410-02
Date: 22-Aug-2019
Time: 14:58:12
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:C,7
Instrument: XEVO-TQSmicro#QEB0050
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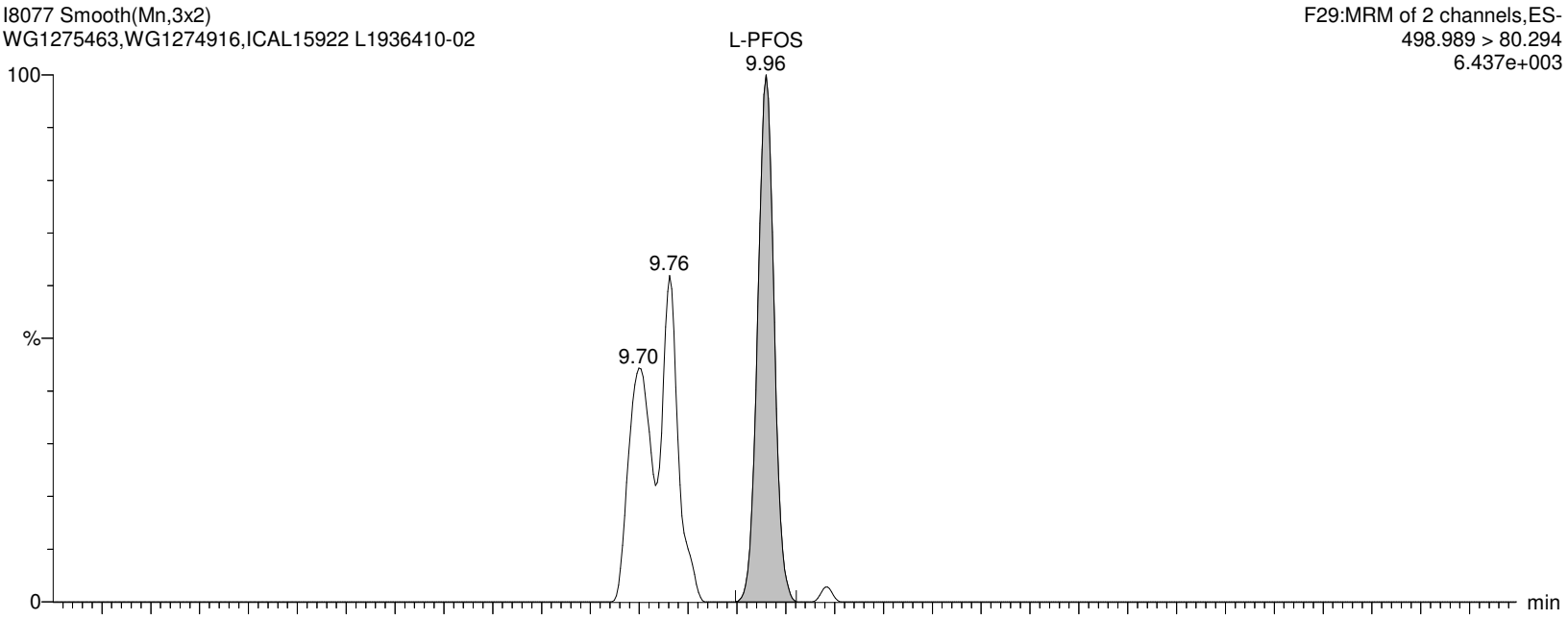


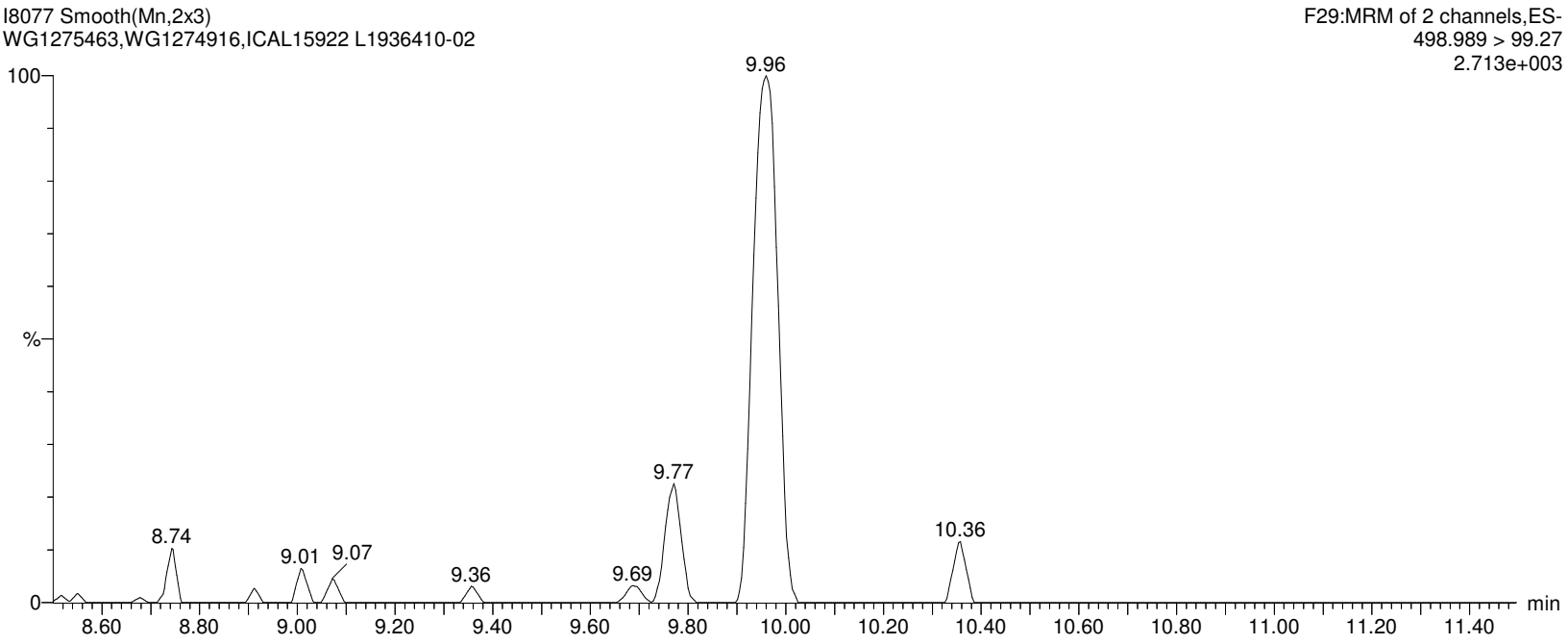
all concentration units in (ng/mL)

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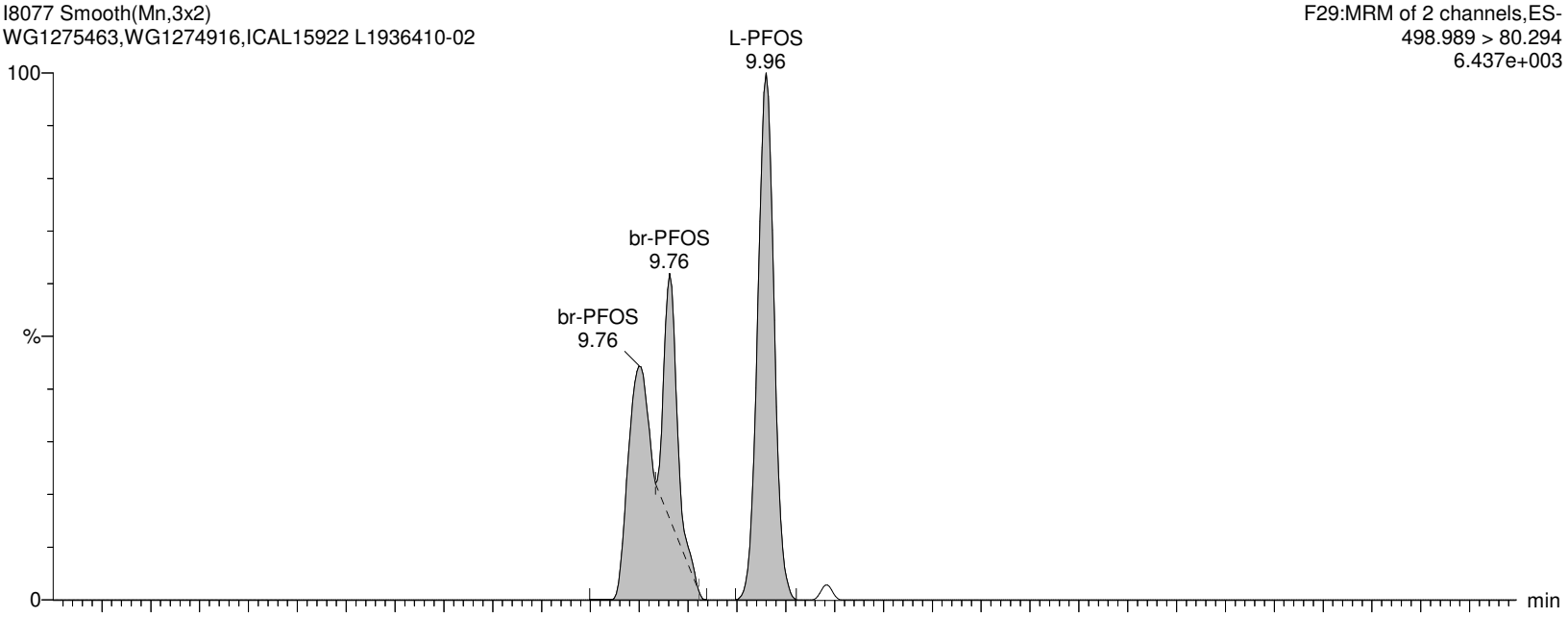


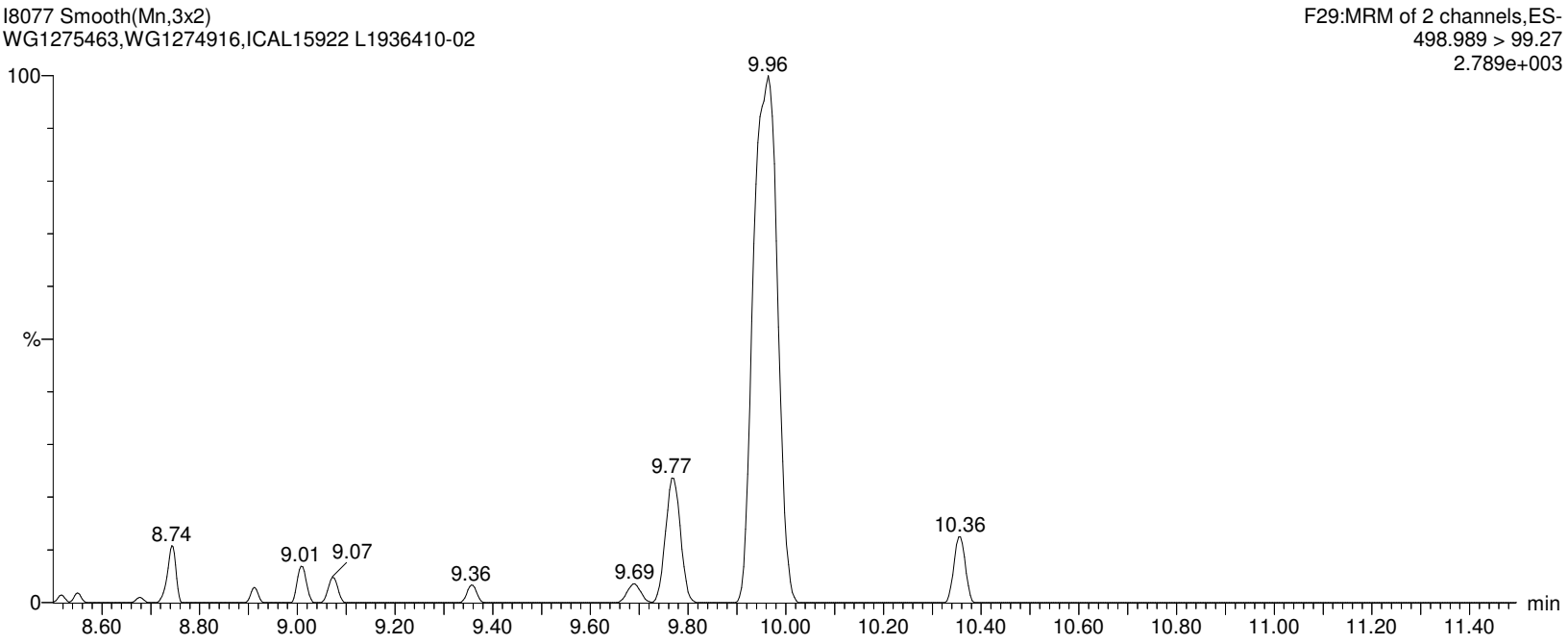
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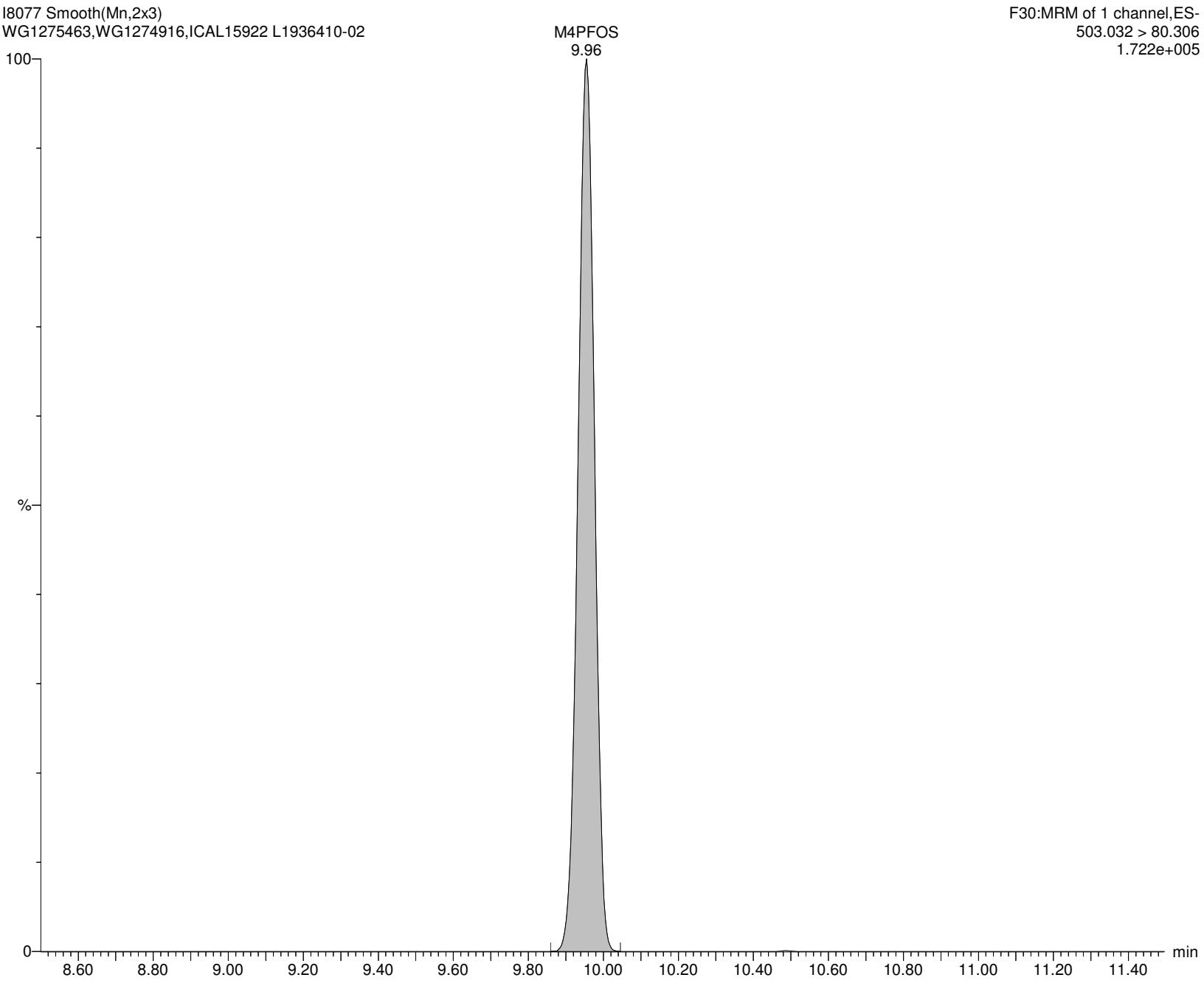


all concentration units in (ng/mL)

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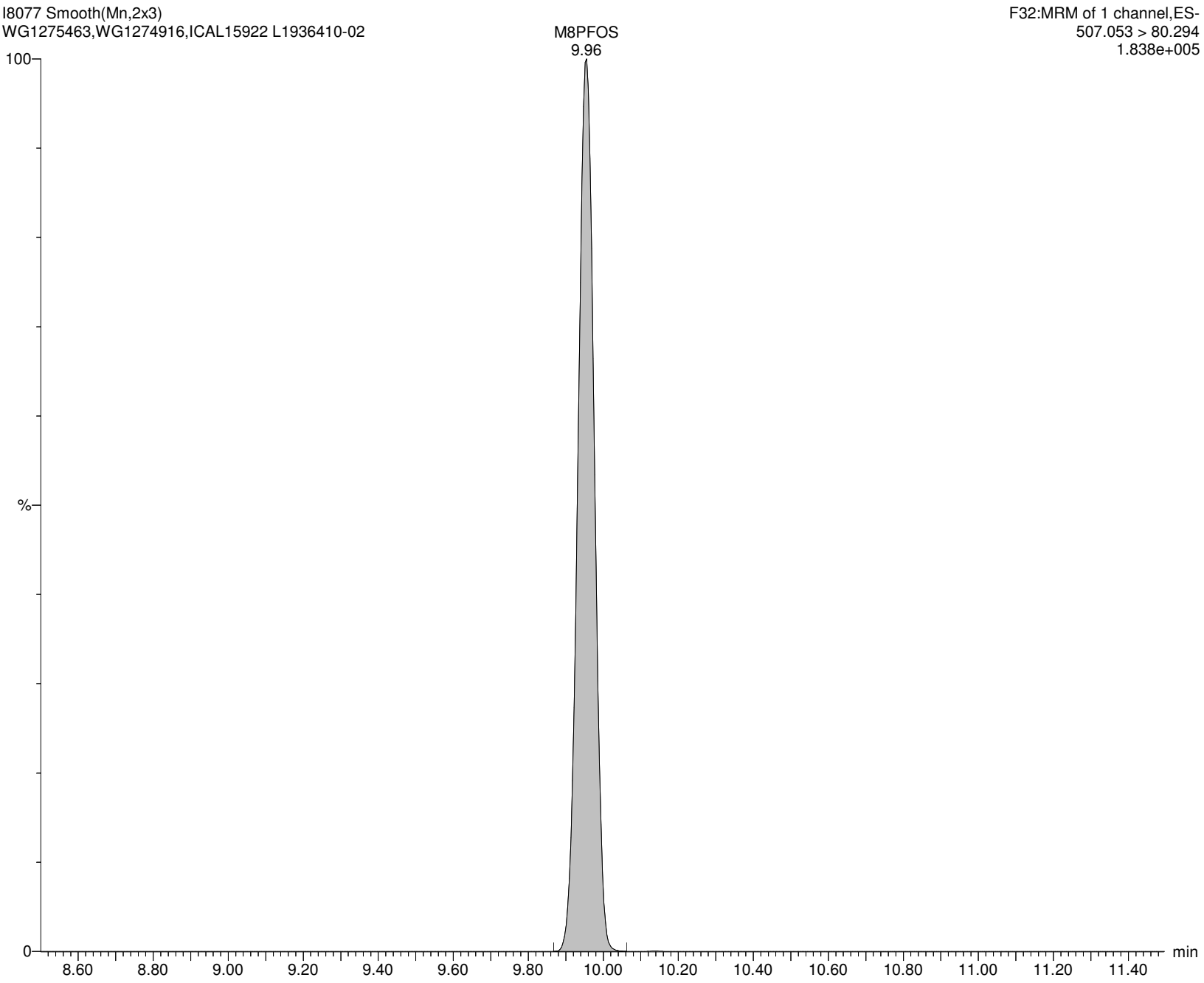


all concentration units in (ng/mL)

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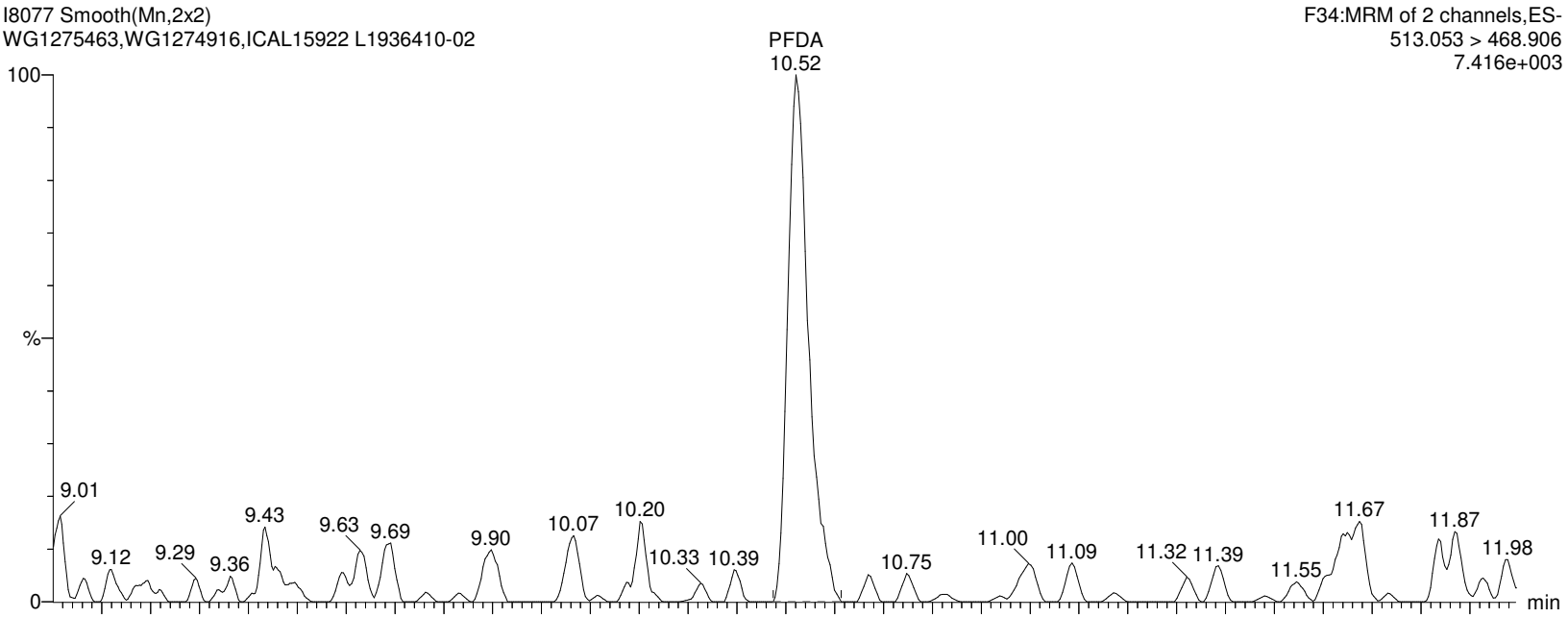


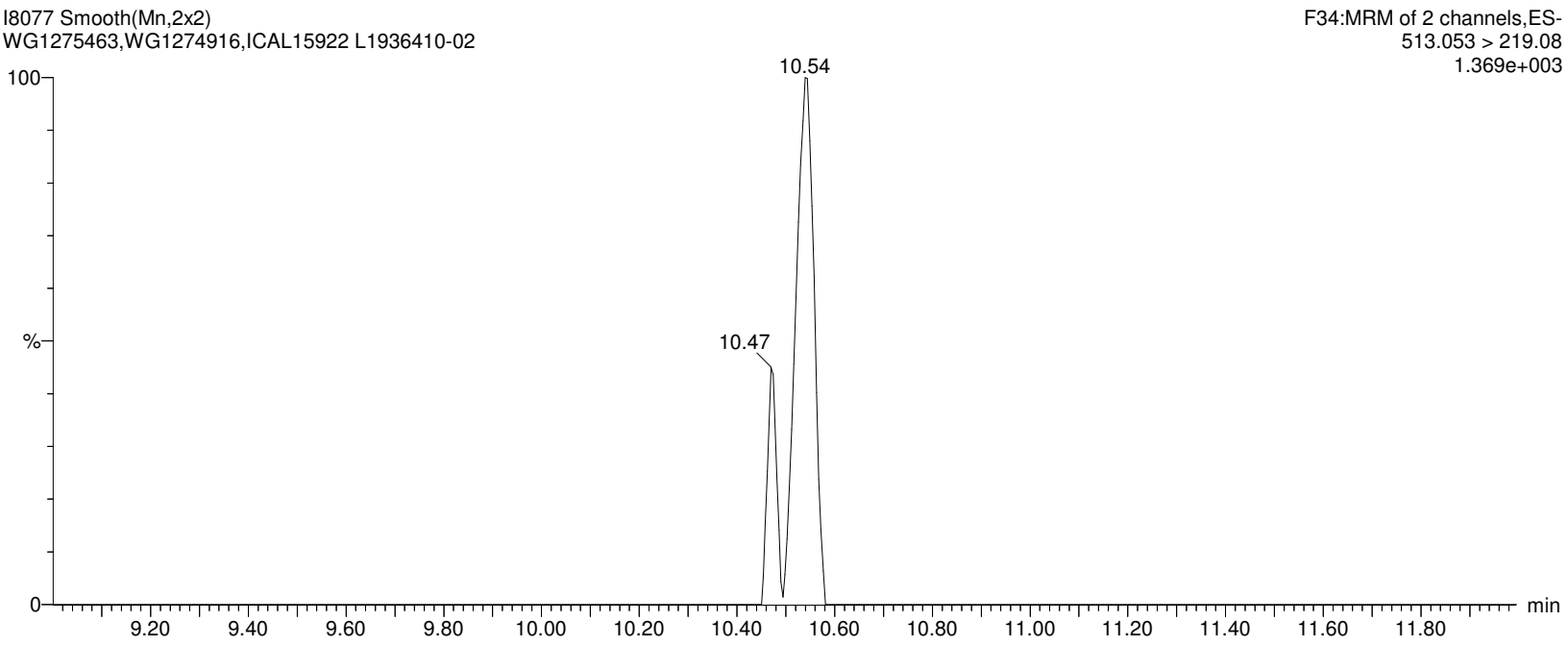
all concentration units in (ng/mL)

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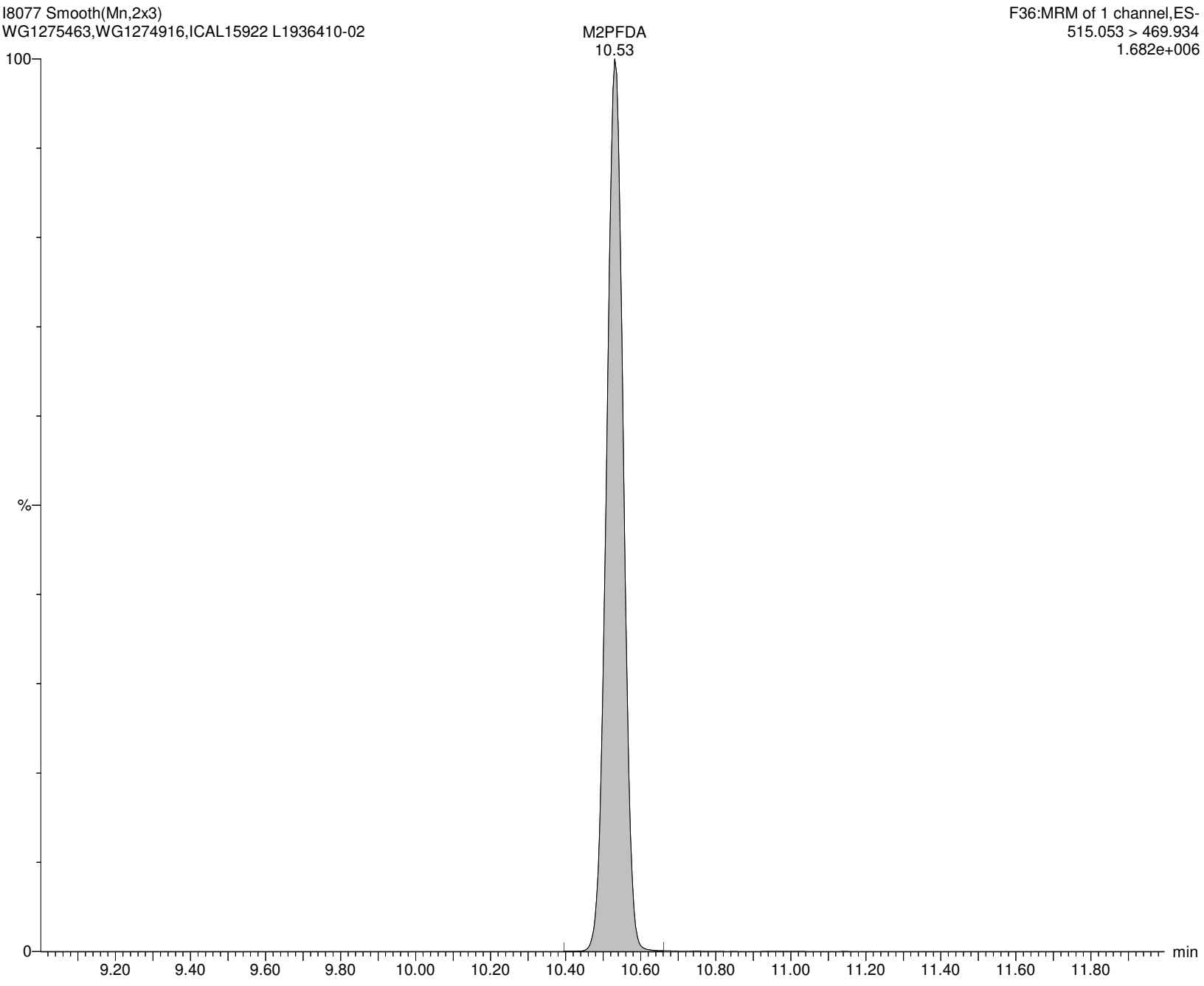


all concentration units in (ng/mL)

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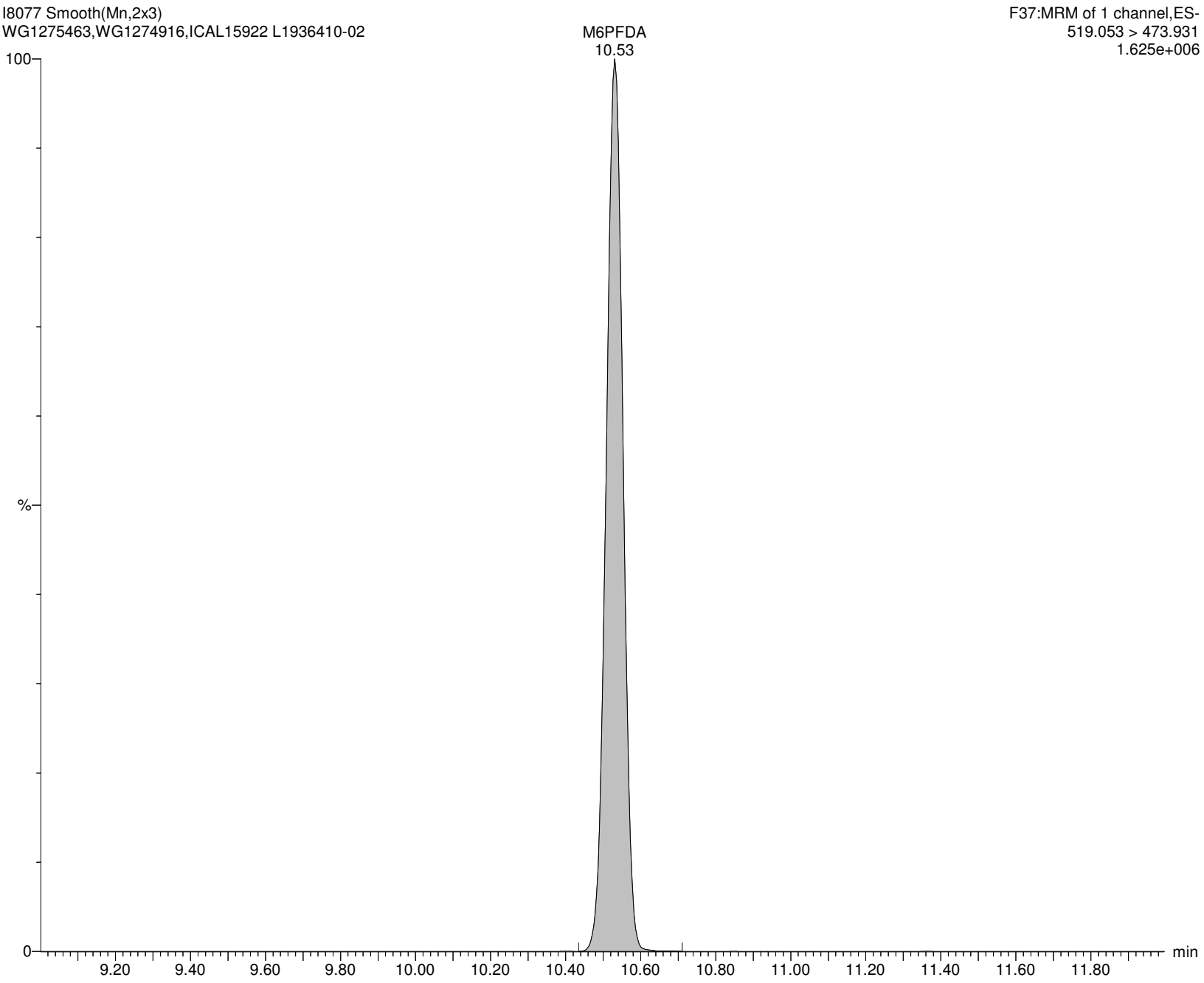


all concentration units in (ng/mL)

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M6PFDA



all concentration units in (ng/mL)

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MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

-

8:2FTS

I8077 Smooth(Mn,2x2)
WG1275463,WG1274916,ICAL15922 L1936410-02

F39:MRM of 2 channels,ES-
526.926 > 506.818
1.000e-003

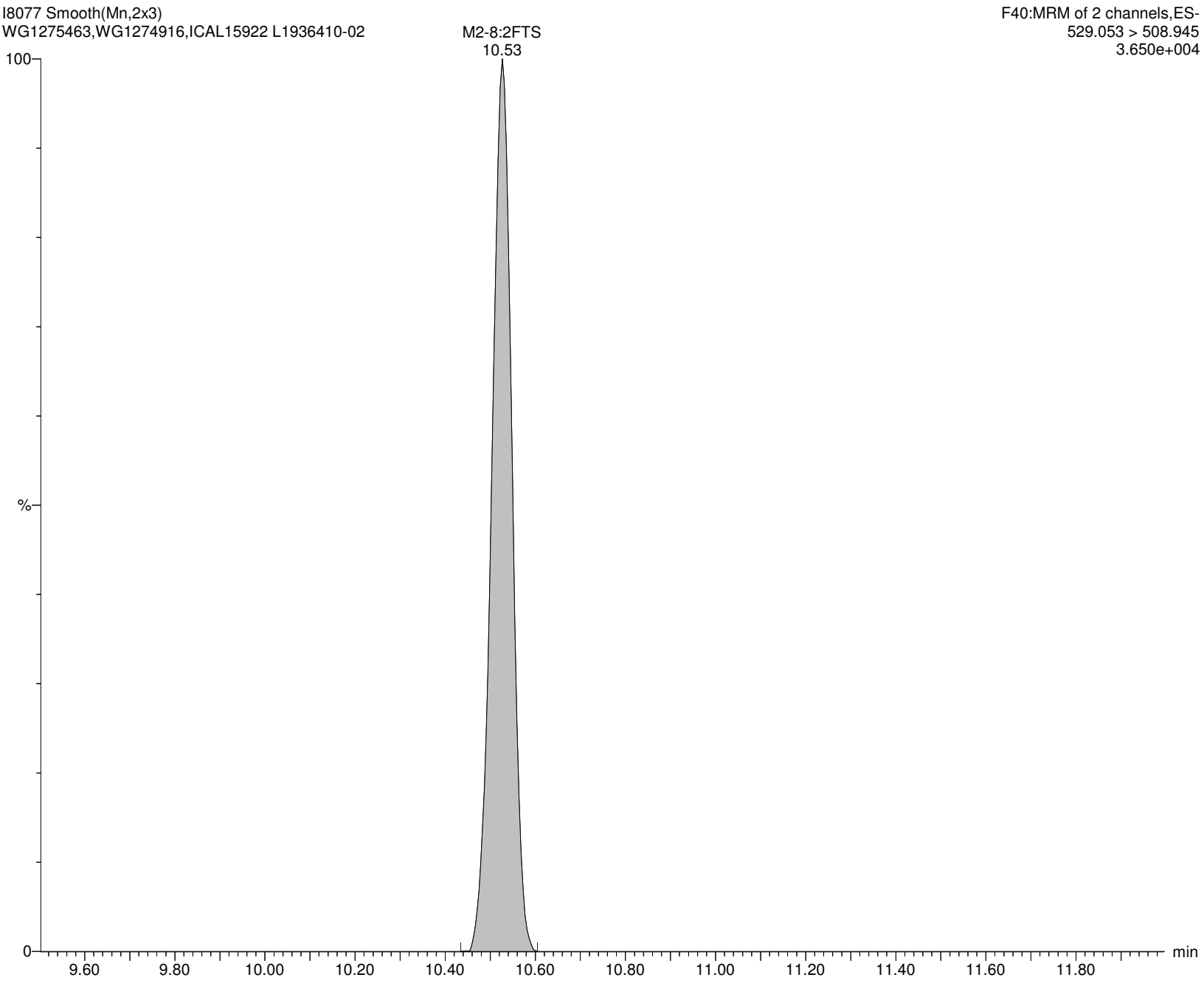


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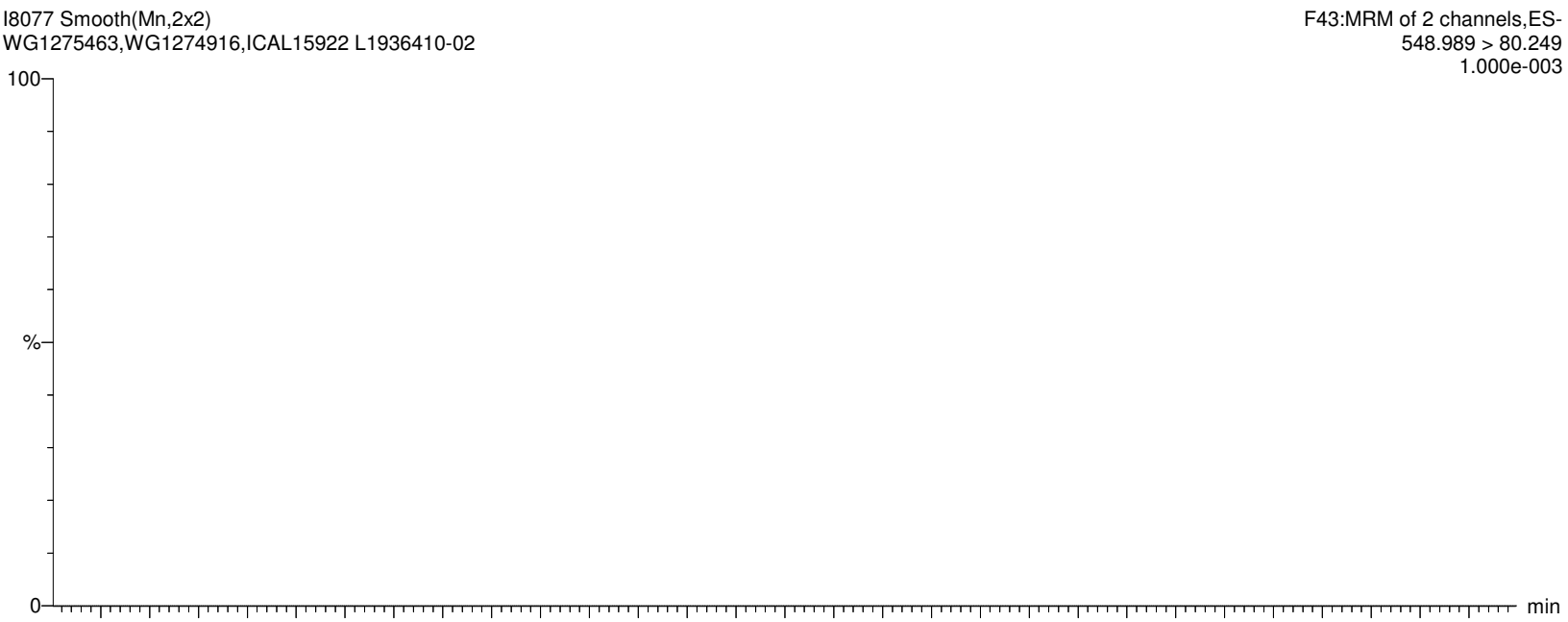


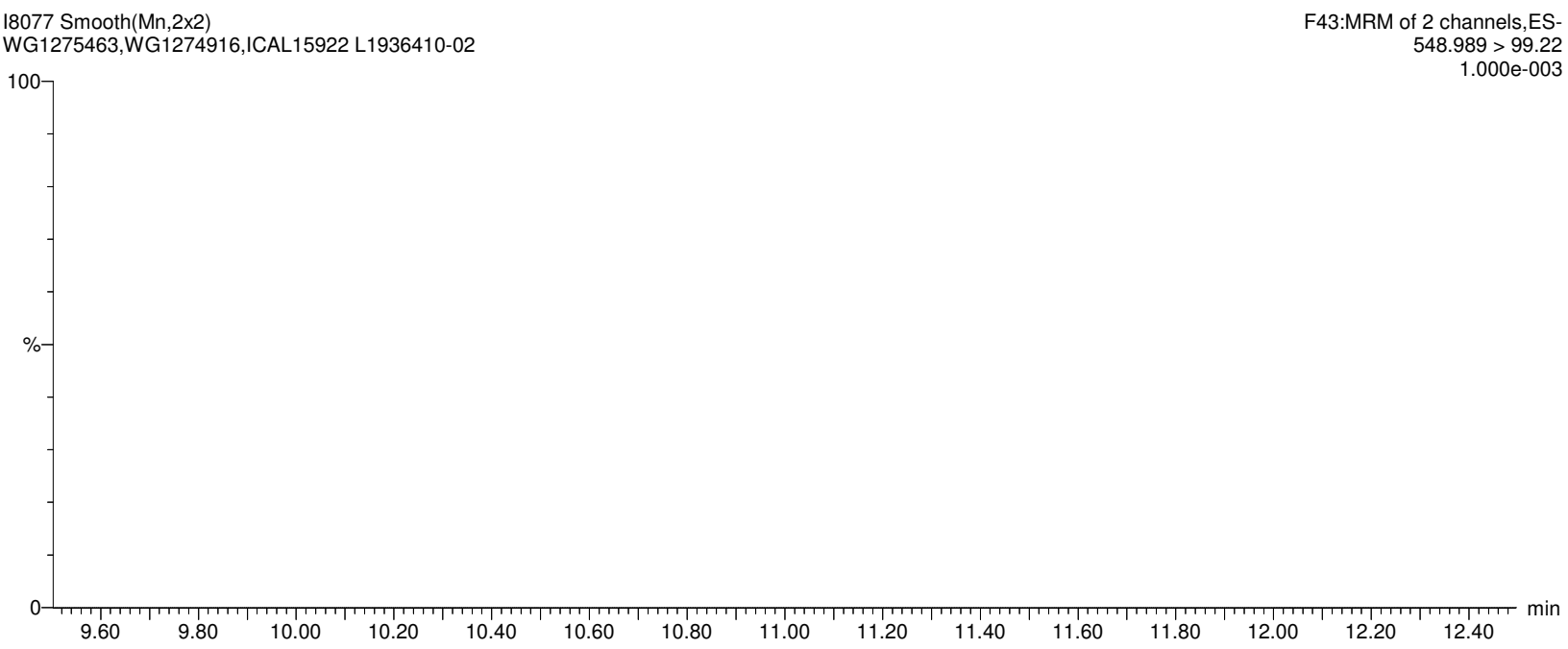
all concentration units in (ng/mL)

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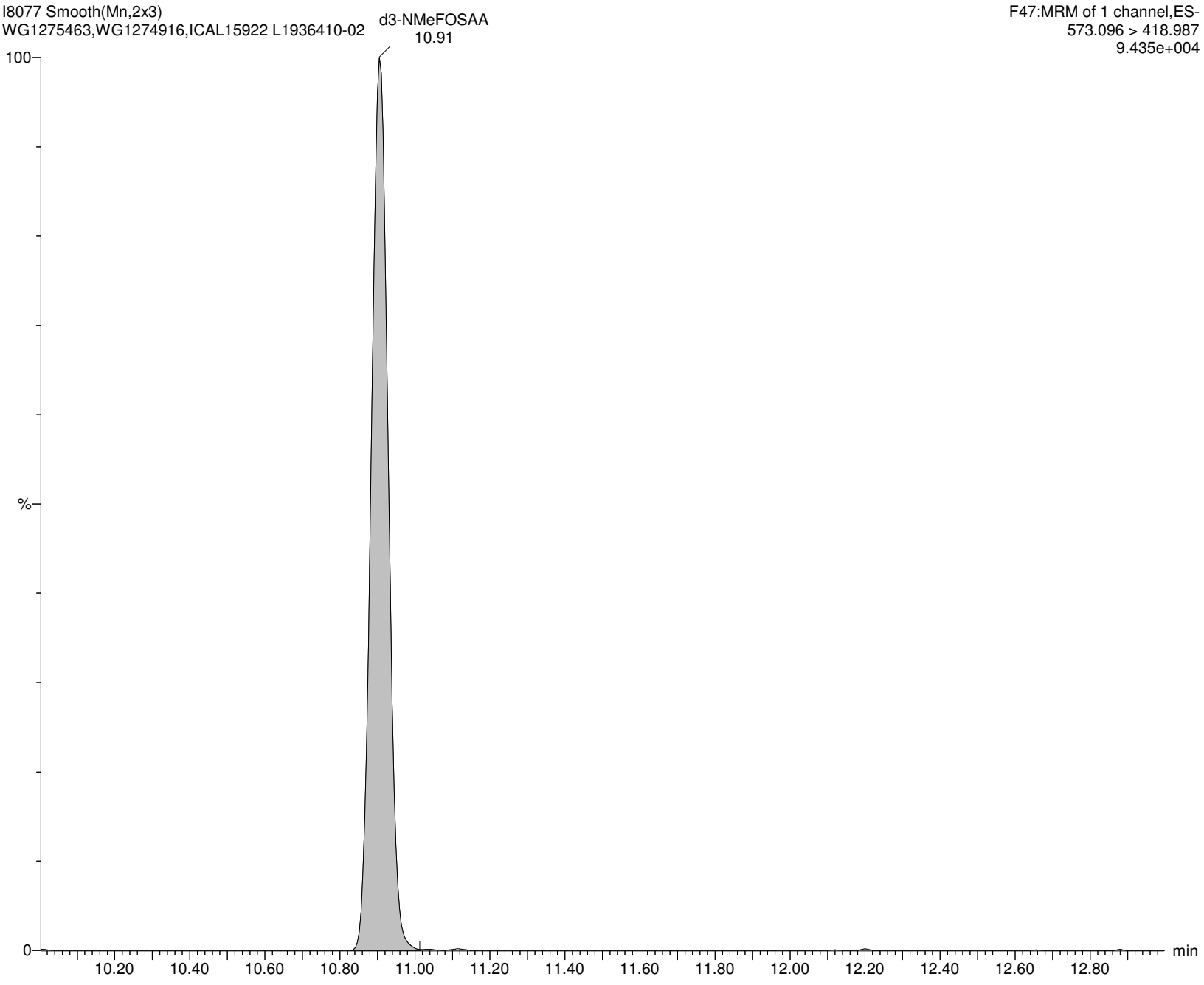


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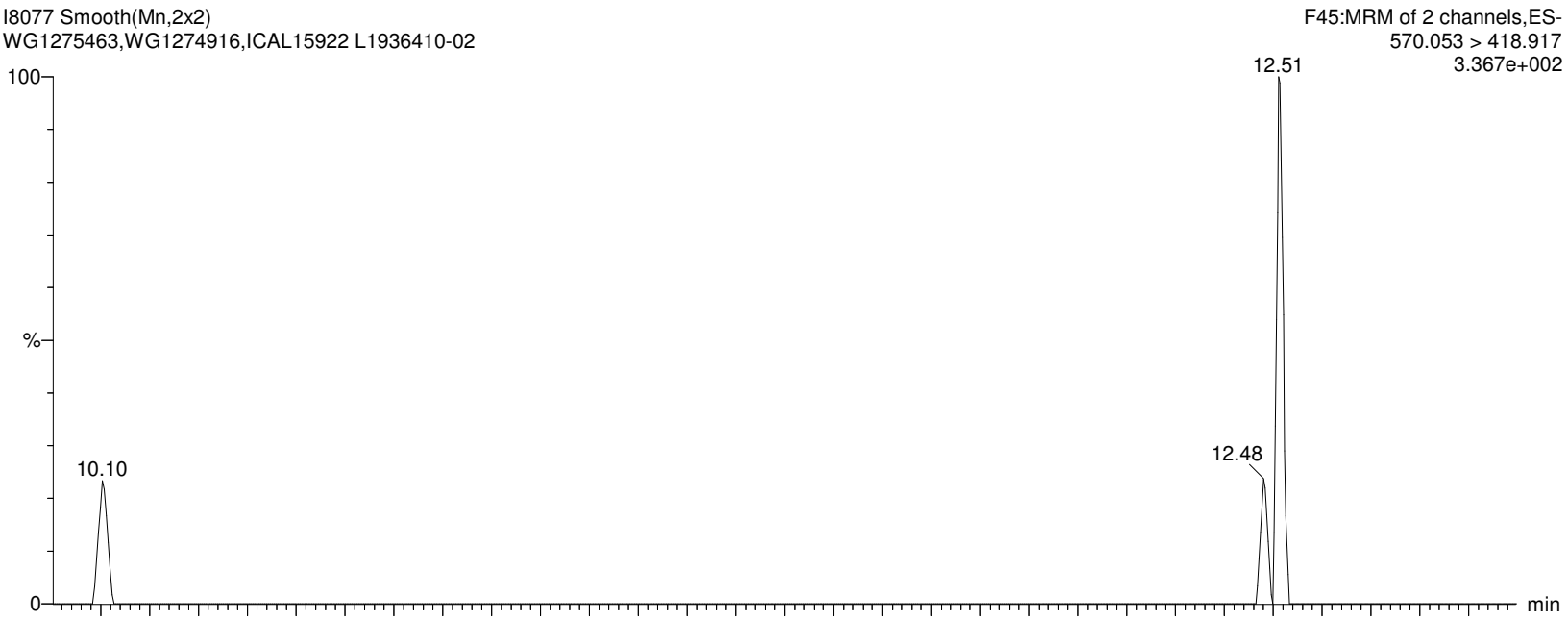


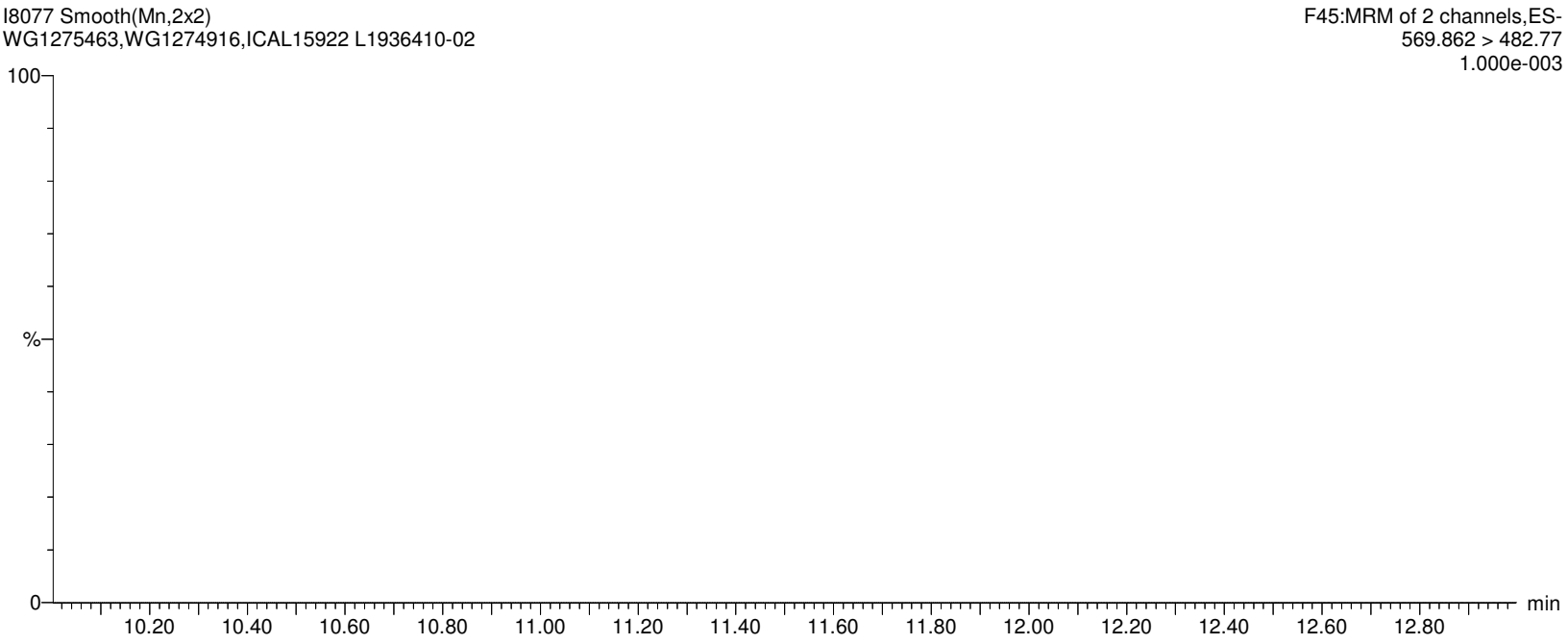
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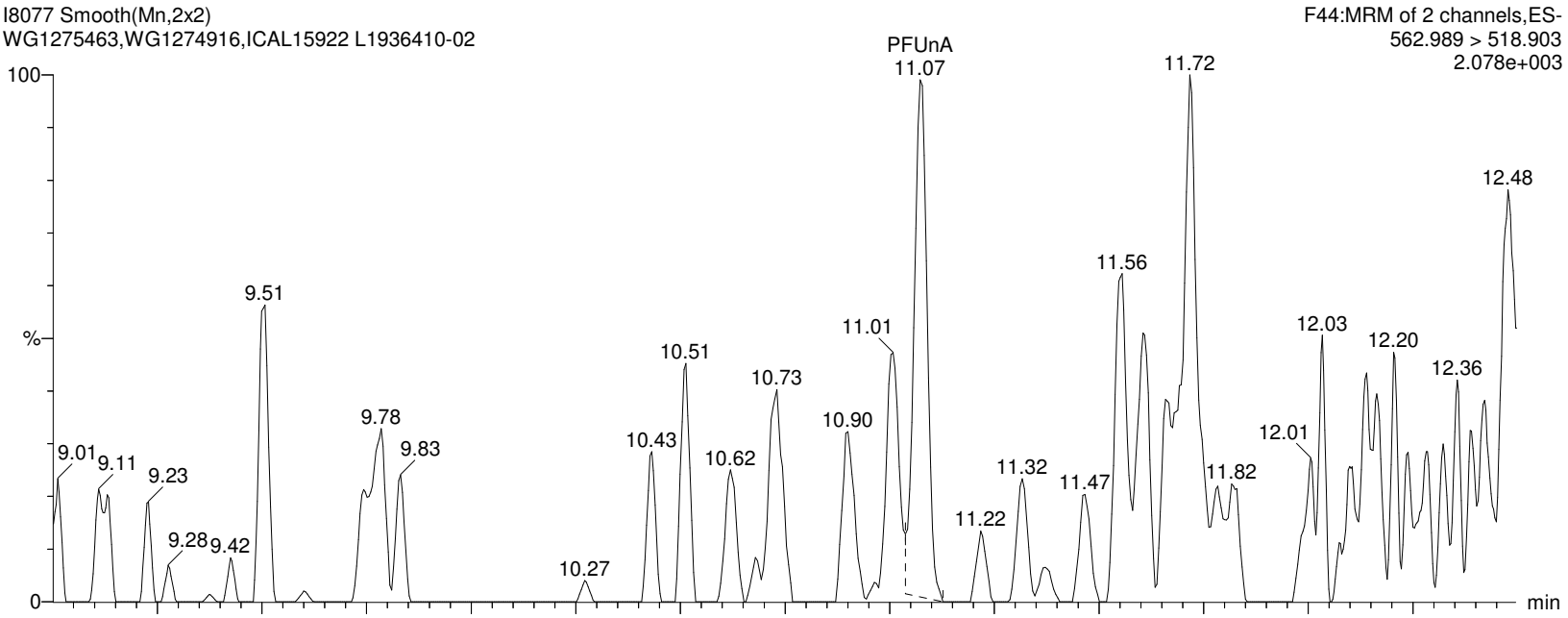


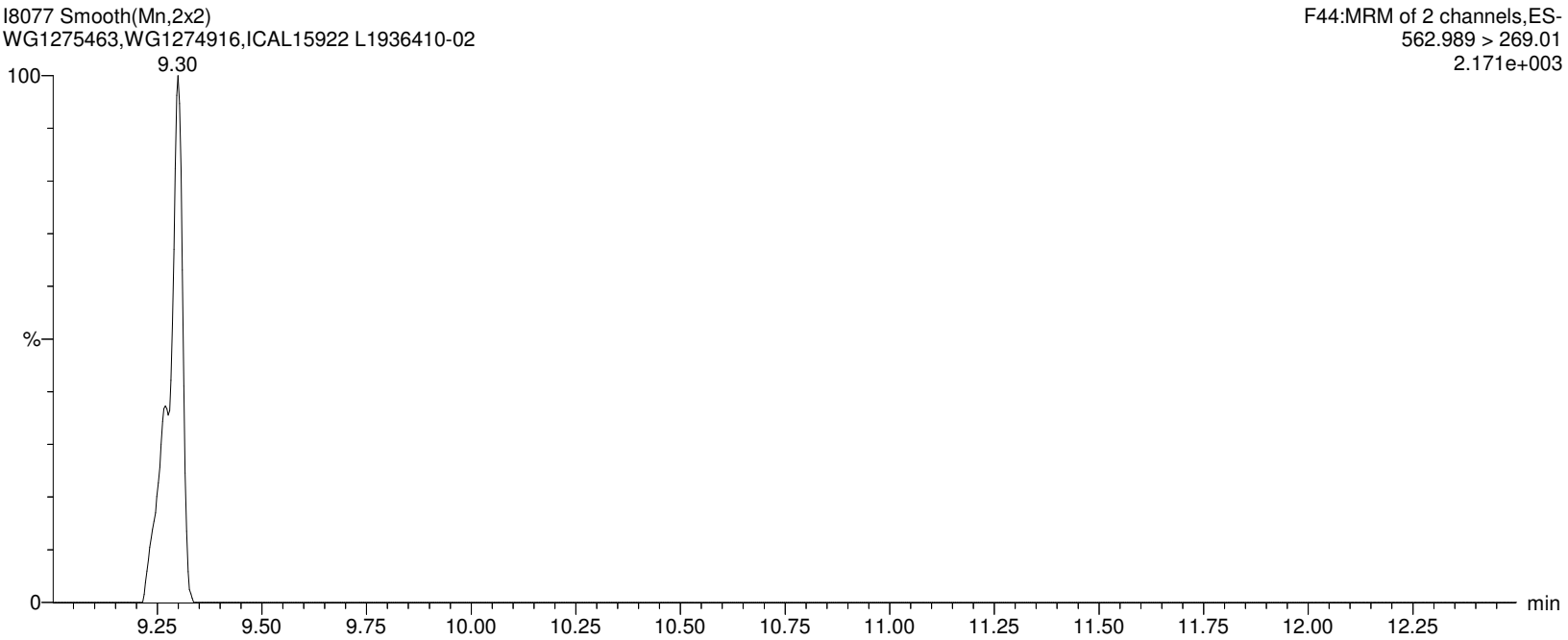
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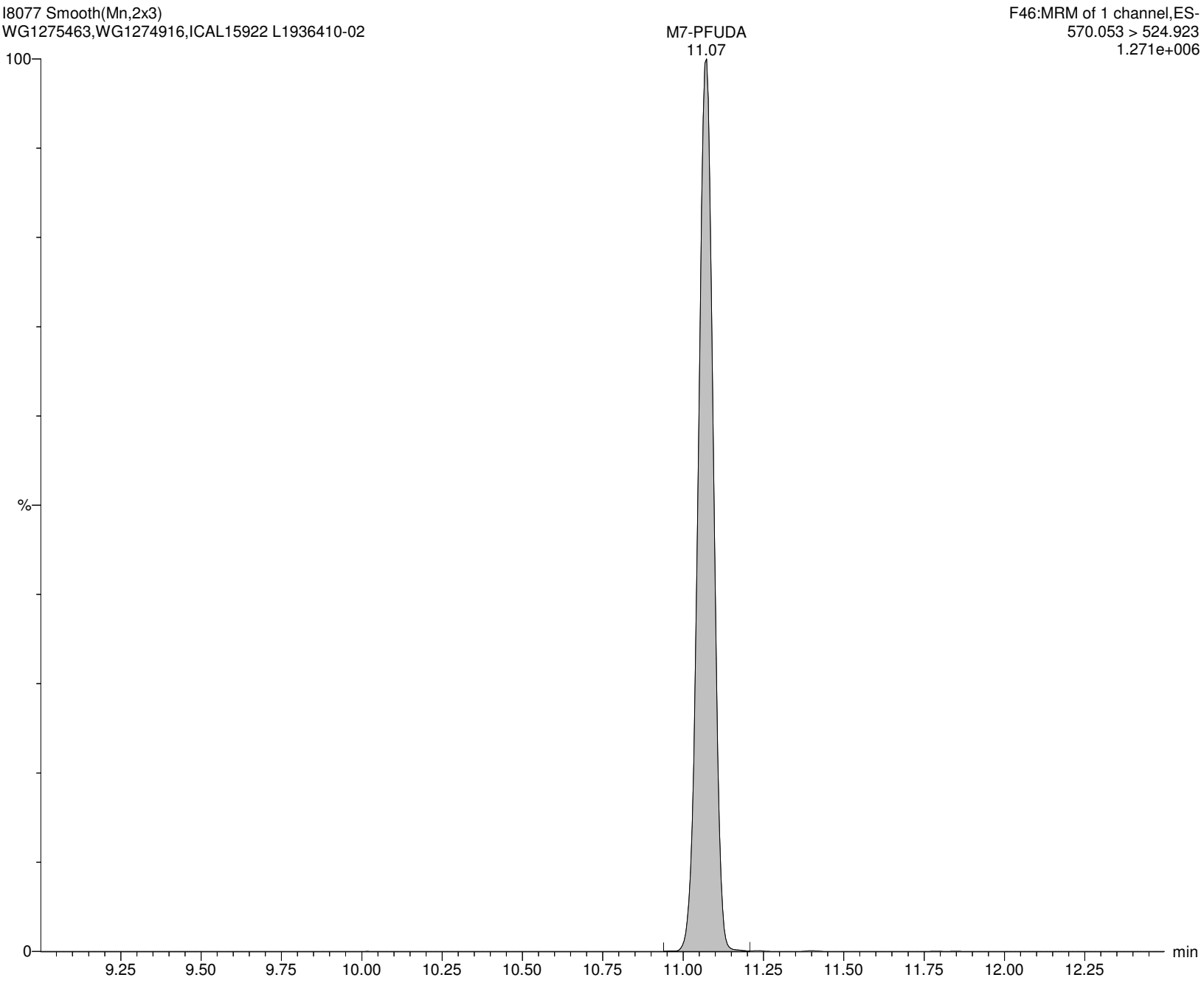


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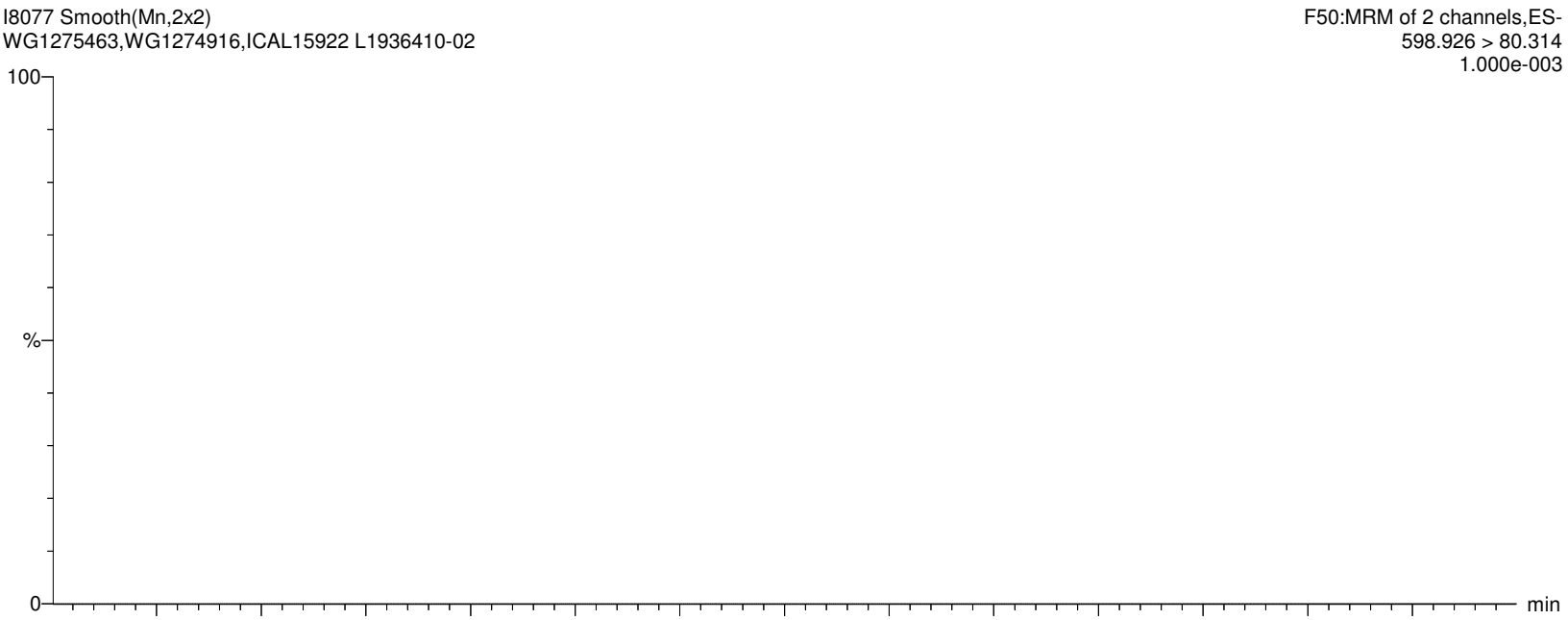


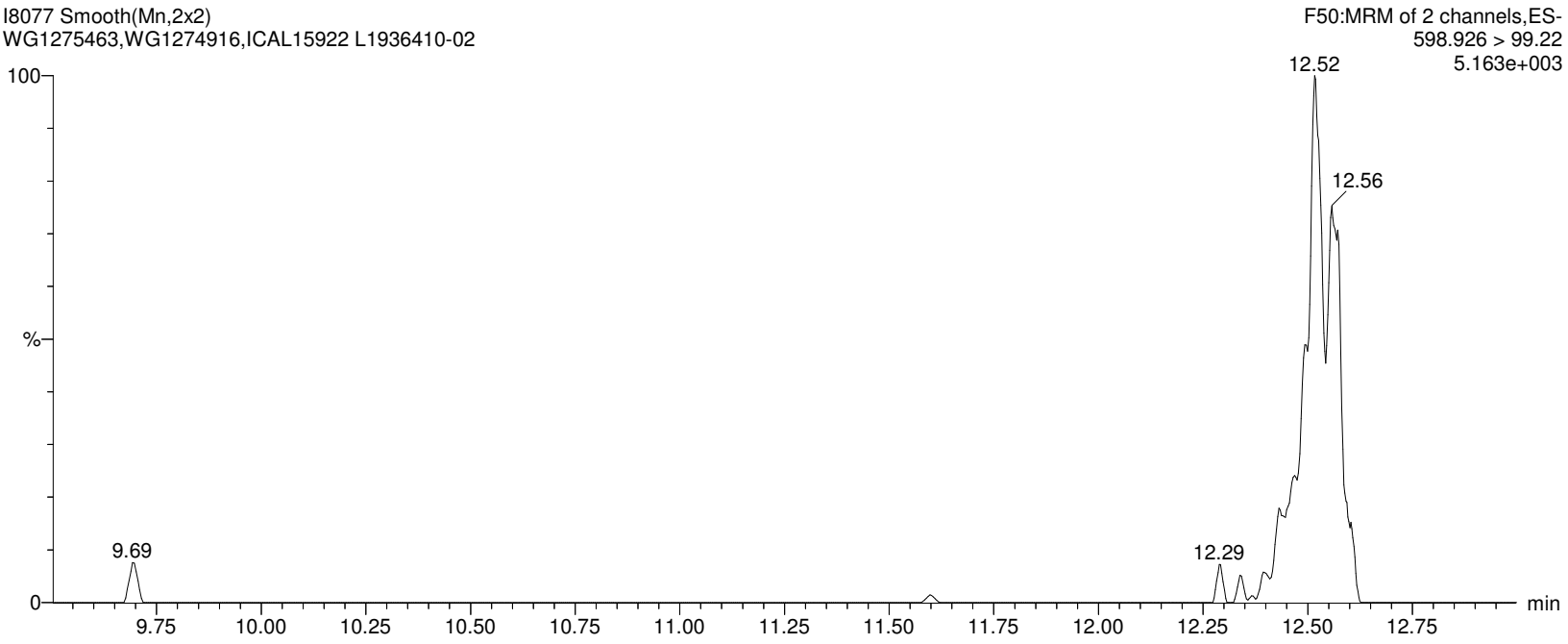
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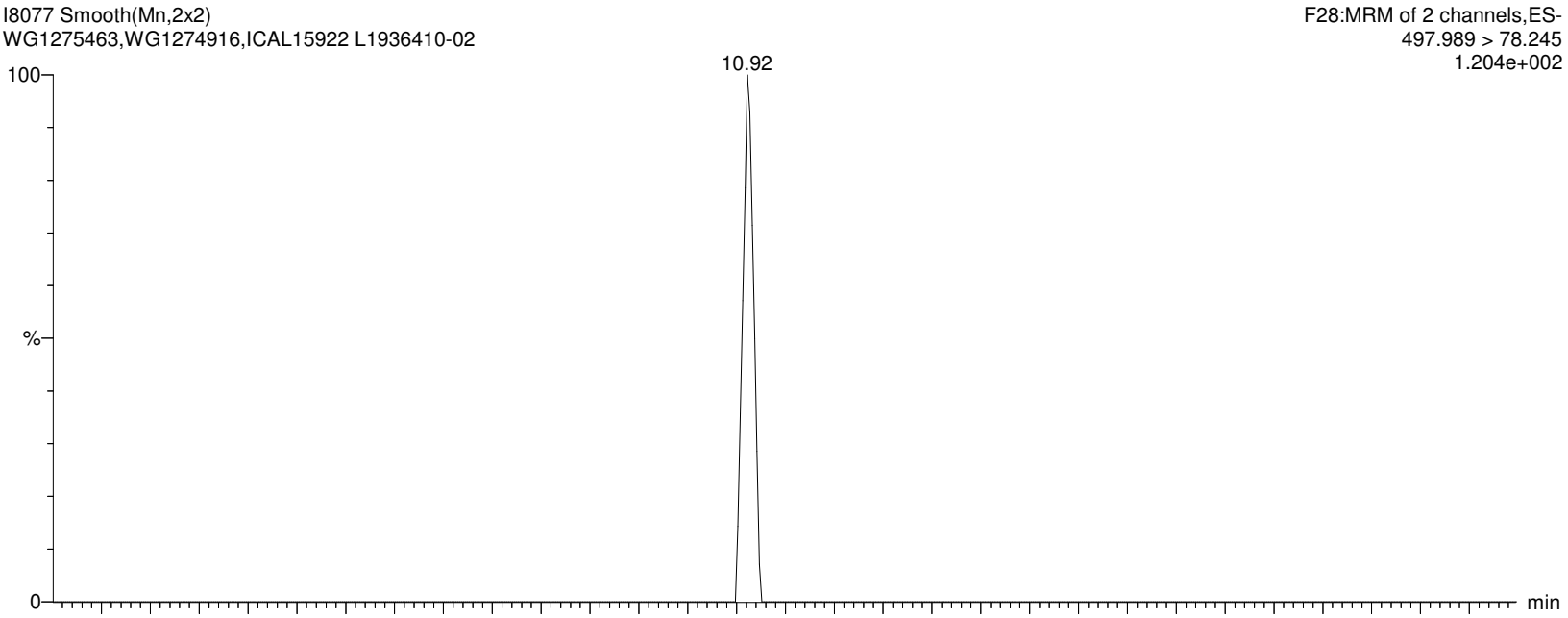


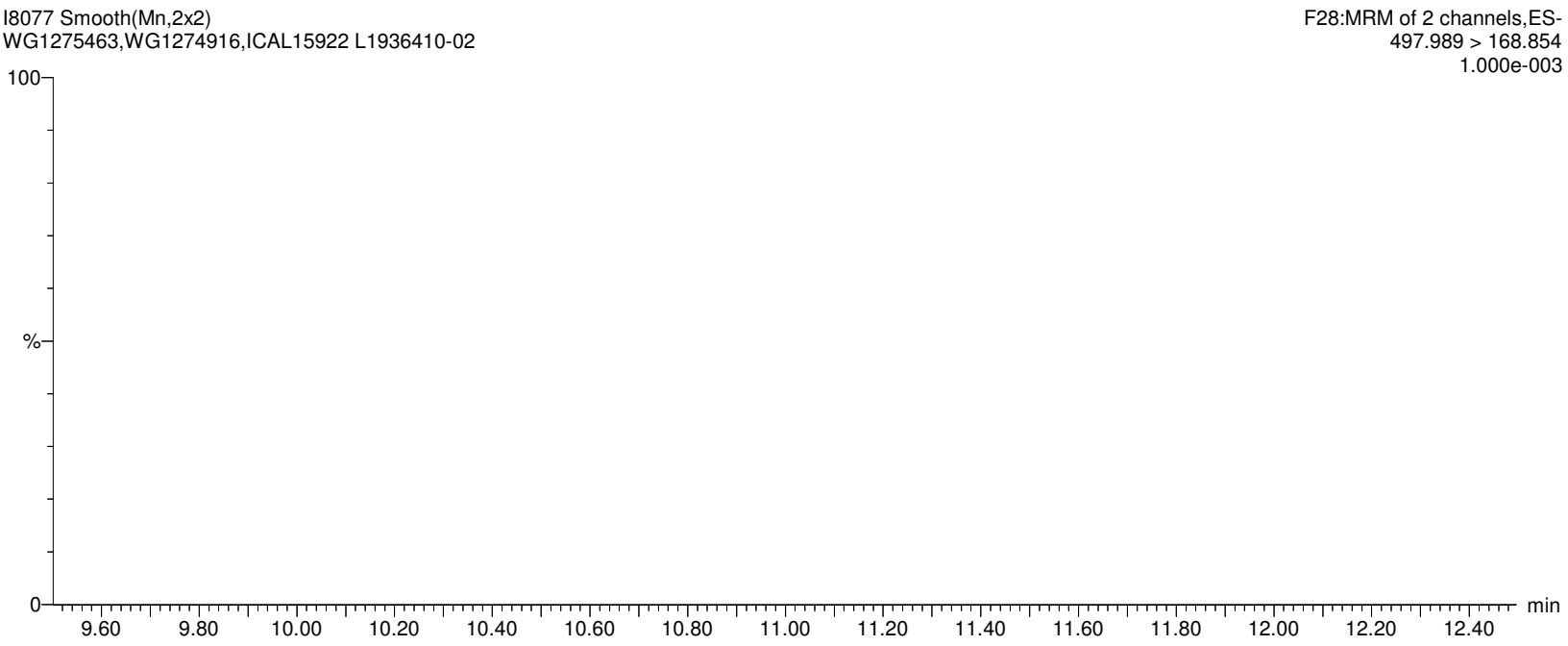
all concentration units in (ng/mL)

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Last Altered: Friday, August 23, 2019 09:51:17 Eastern Daylight Time
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Name: I8077
ID: L1936410-02
Date: 22-Aug-2019
Time: 14:58:12
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:C,7
Instrument: XEVO-TQSmicro#QEB0050
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Tune Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\181009_TUNE.IPR
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FOSA



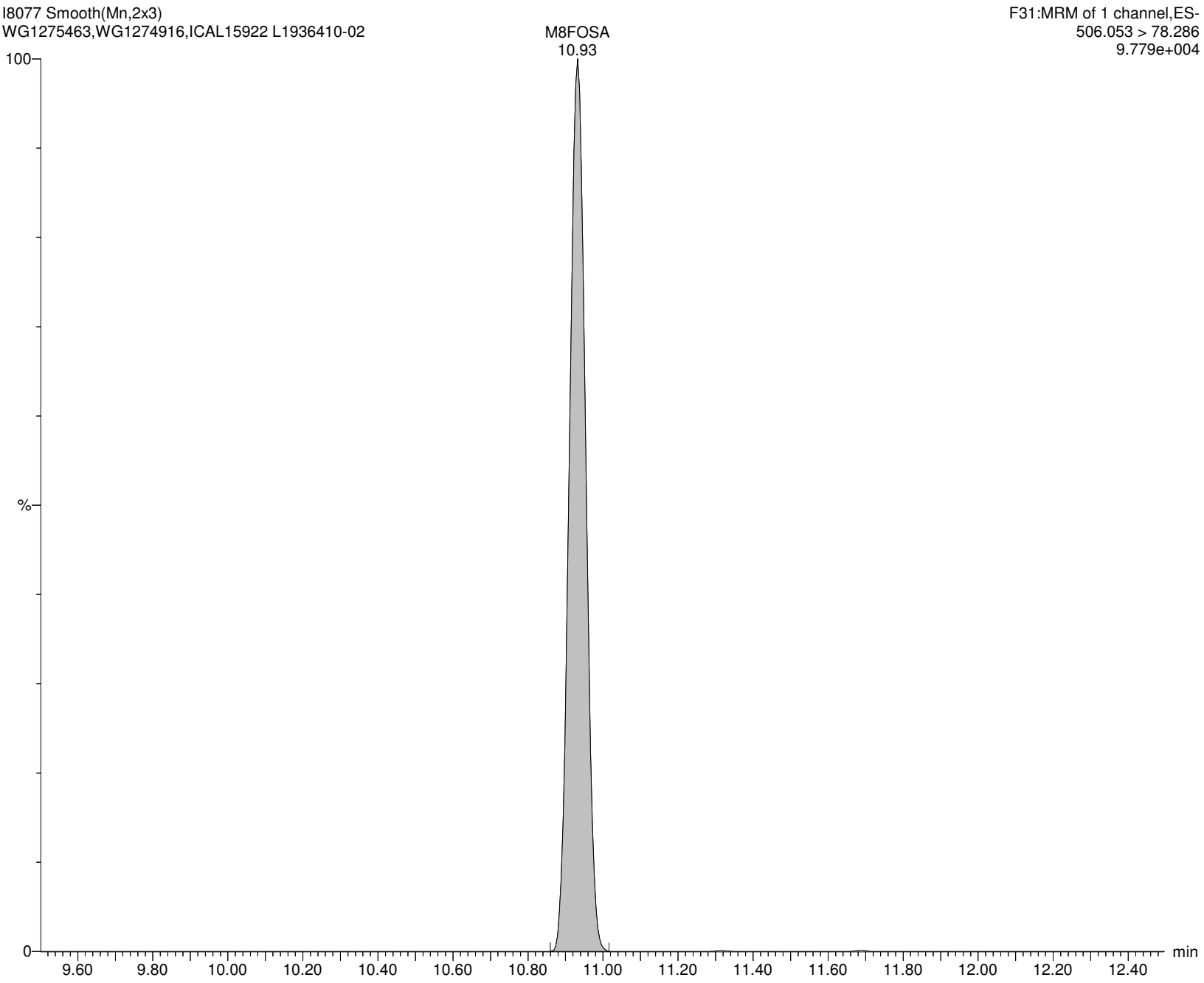


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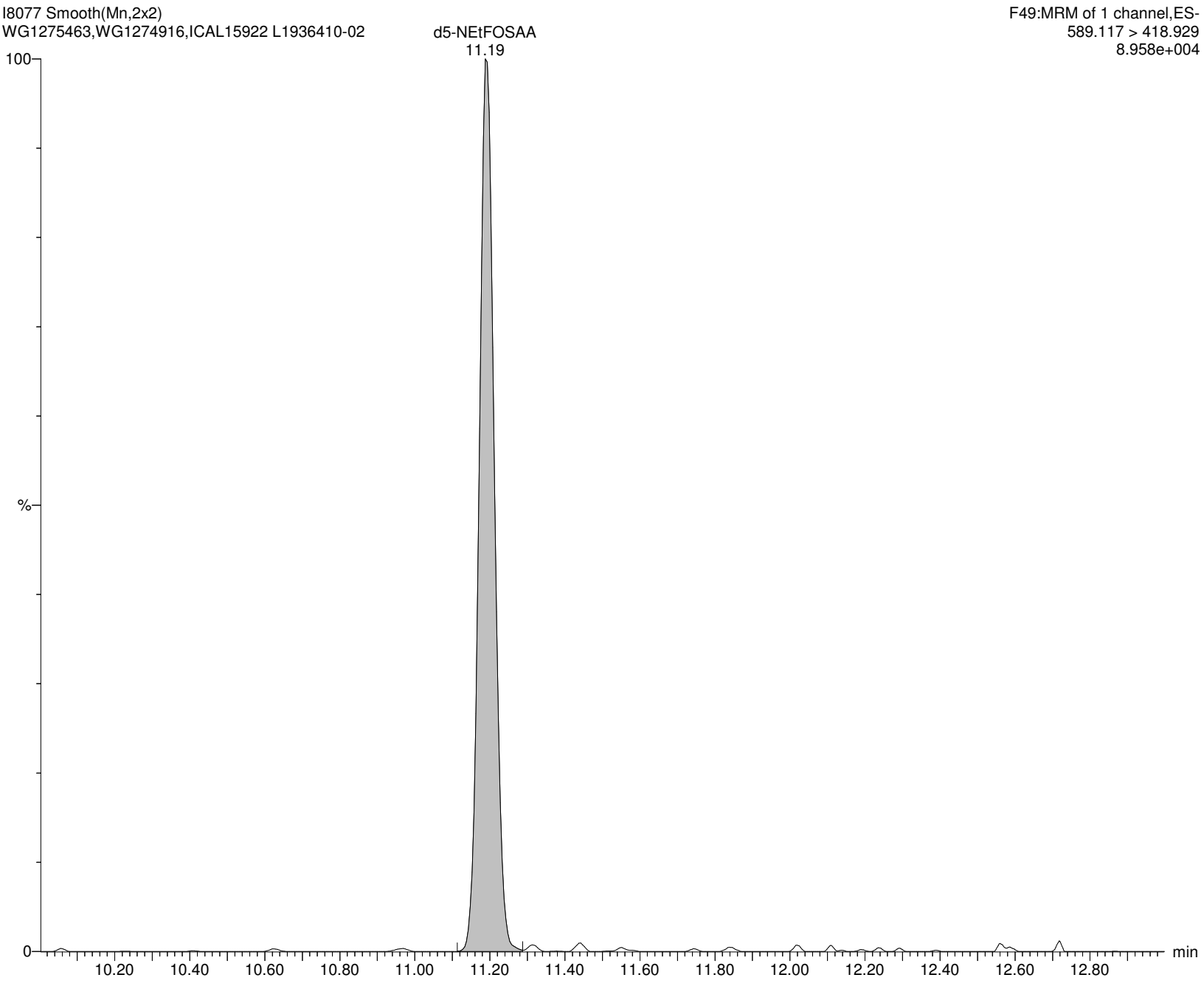


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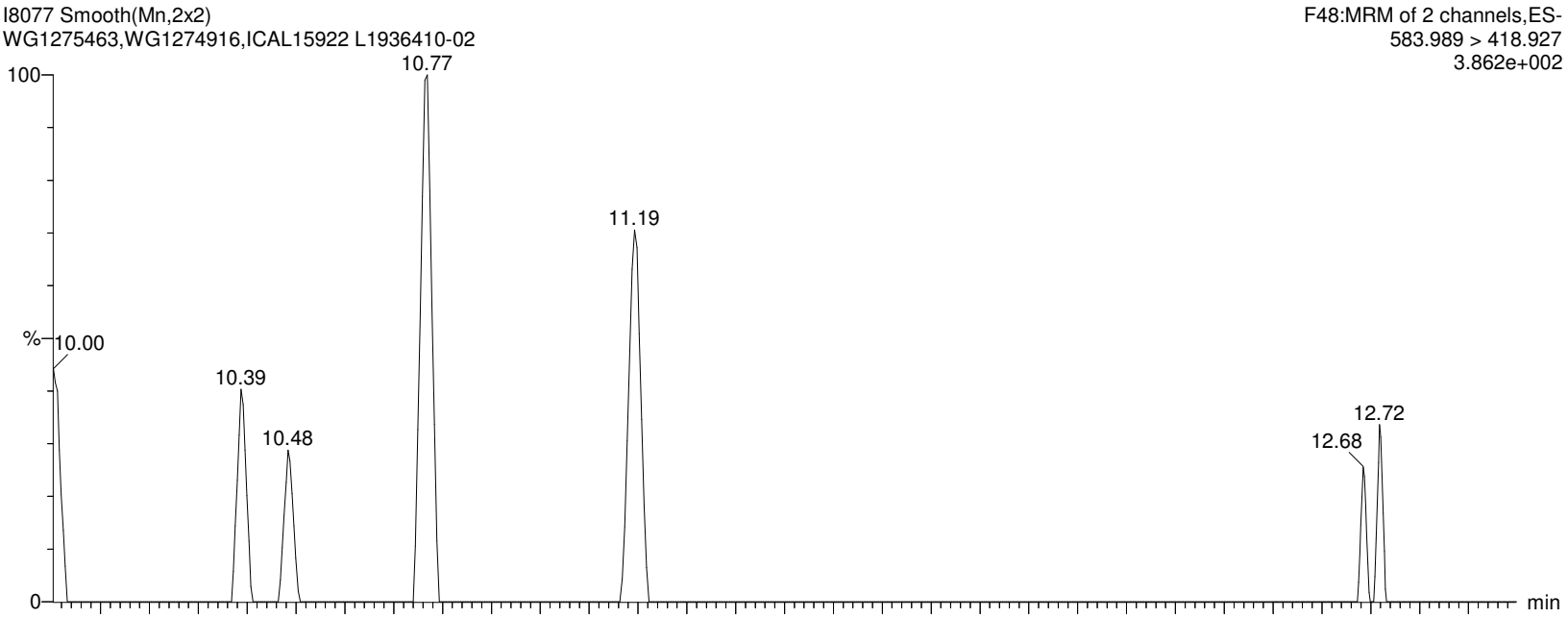


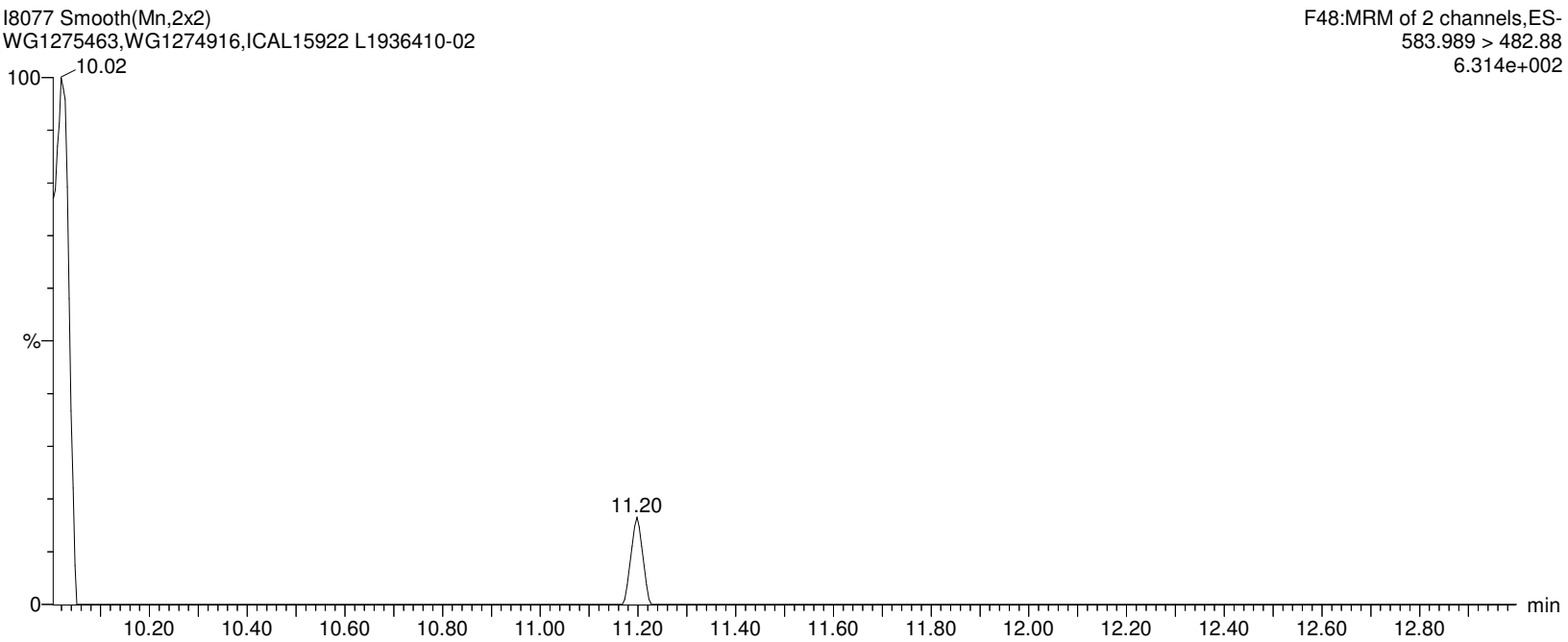
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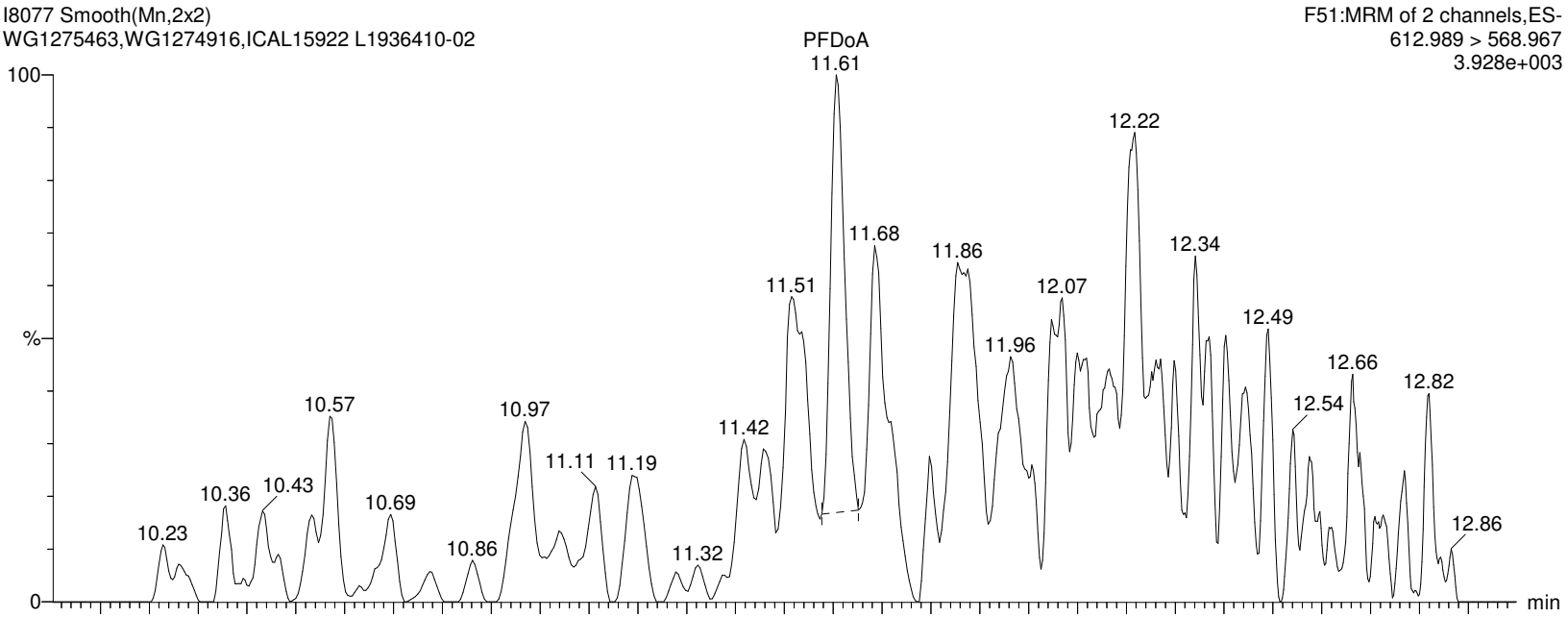


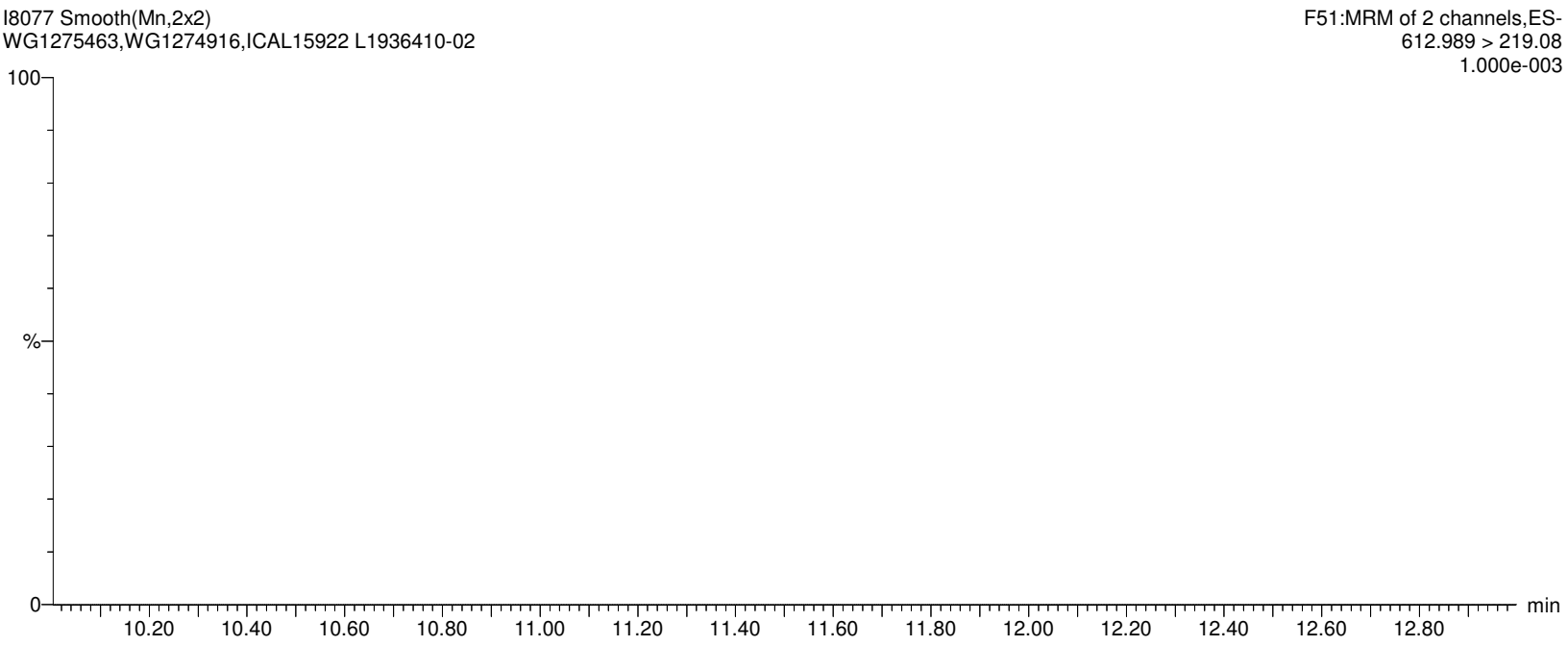
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PFDoA



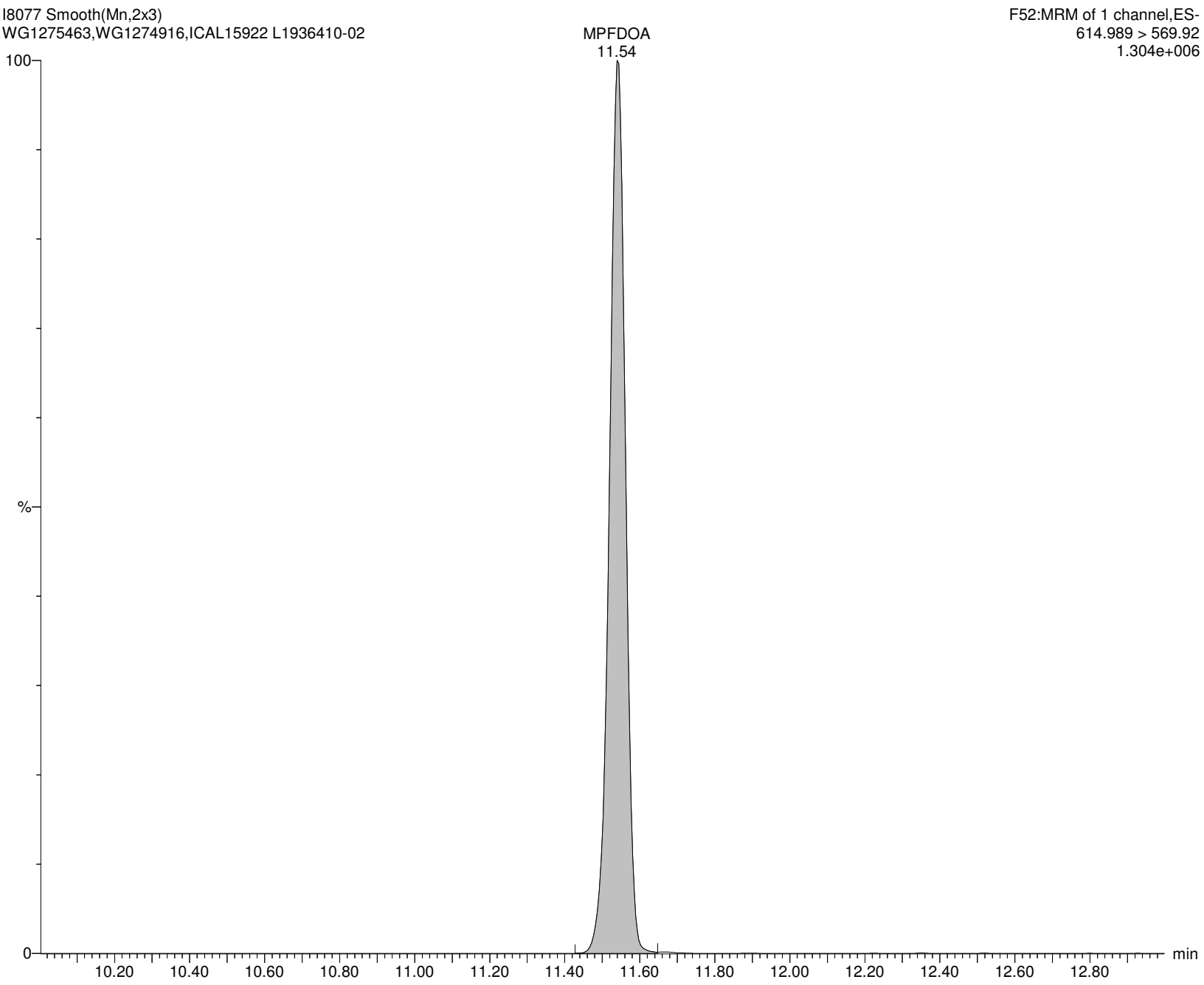


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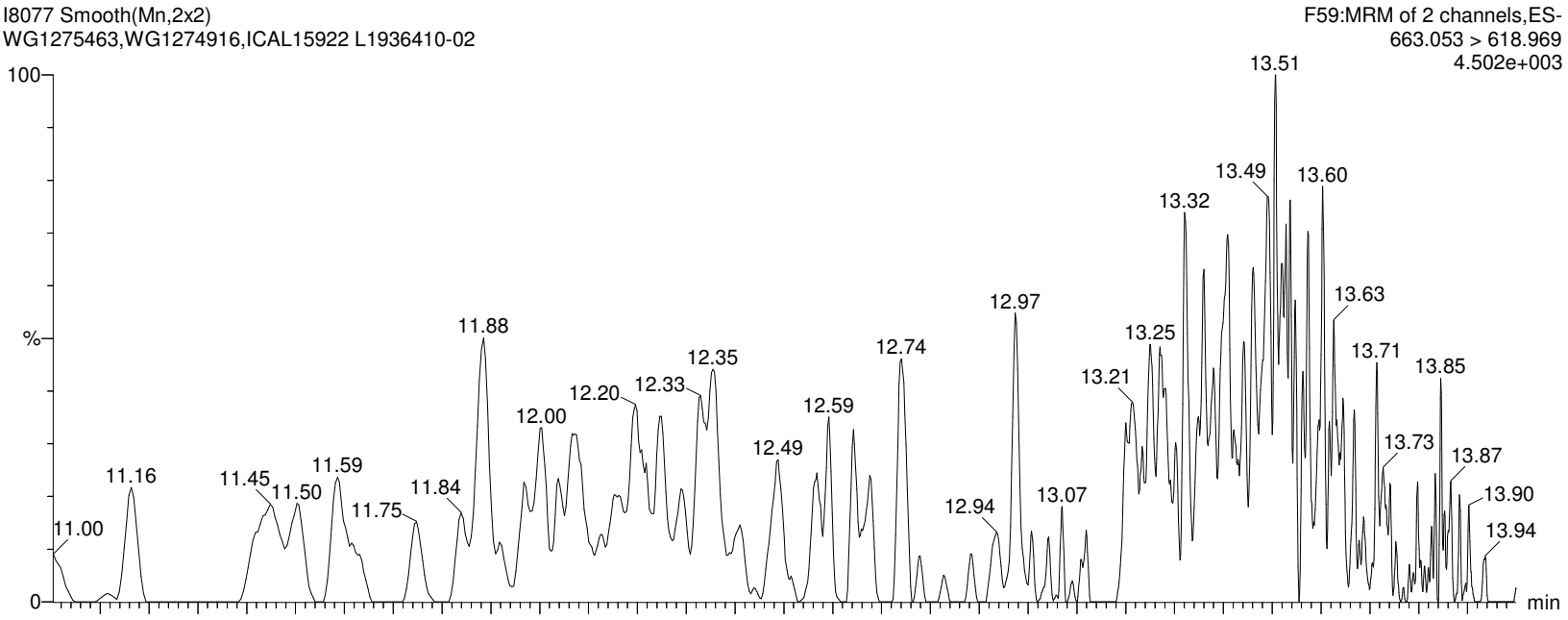


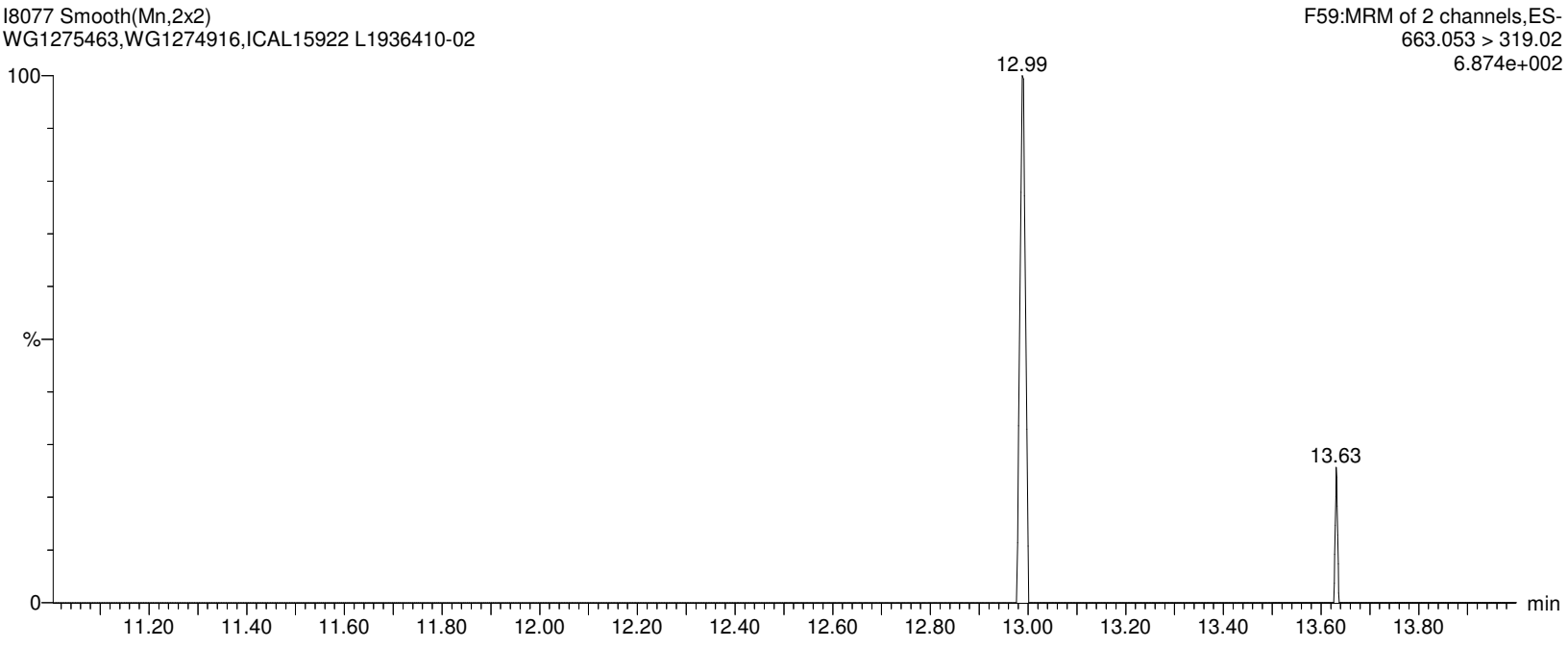
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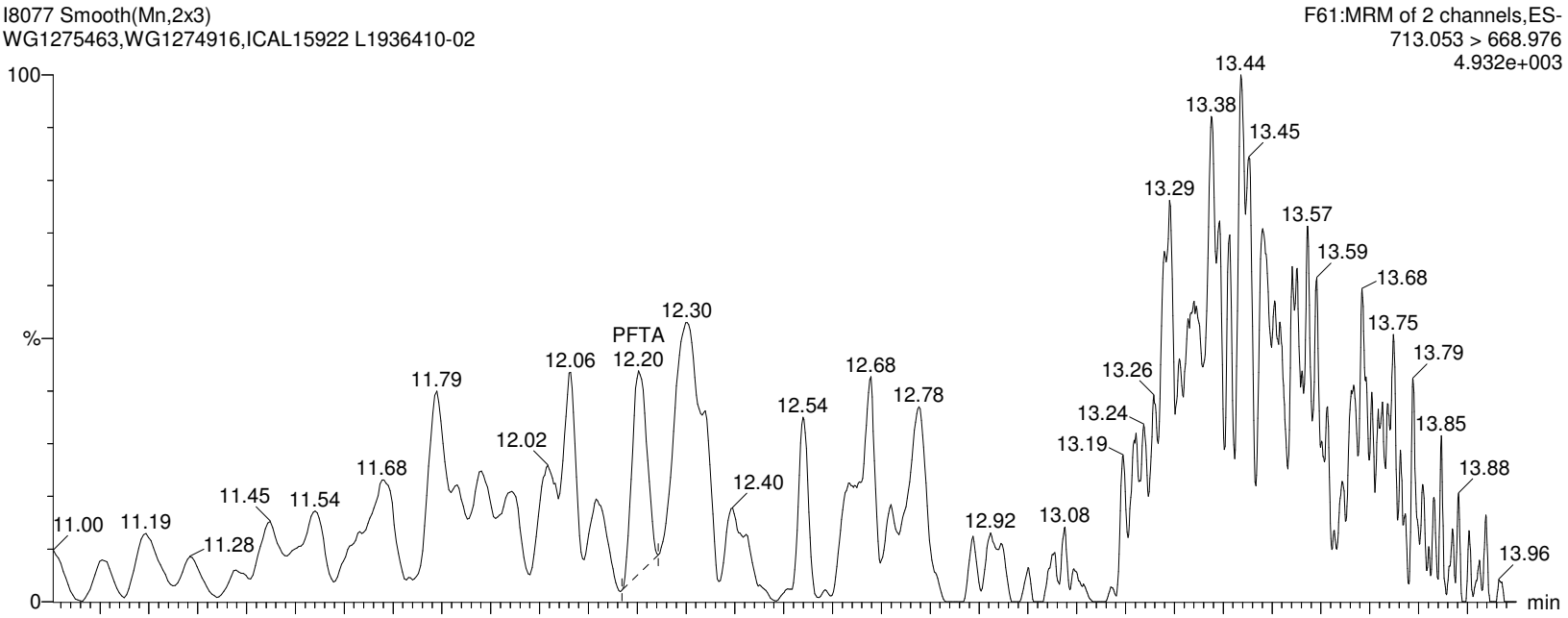


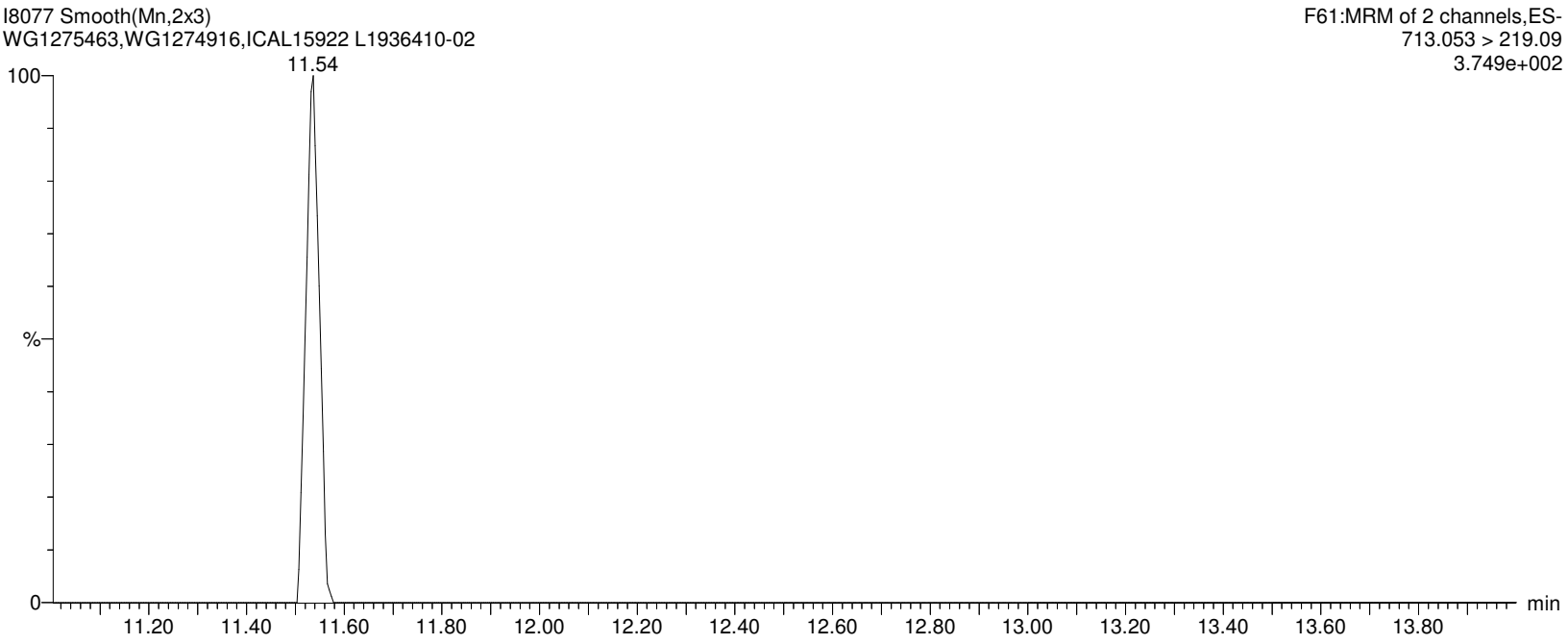
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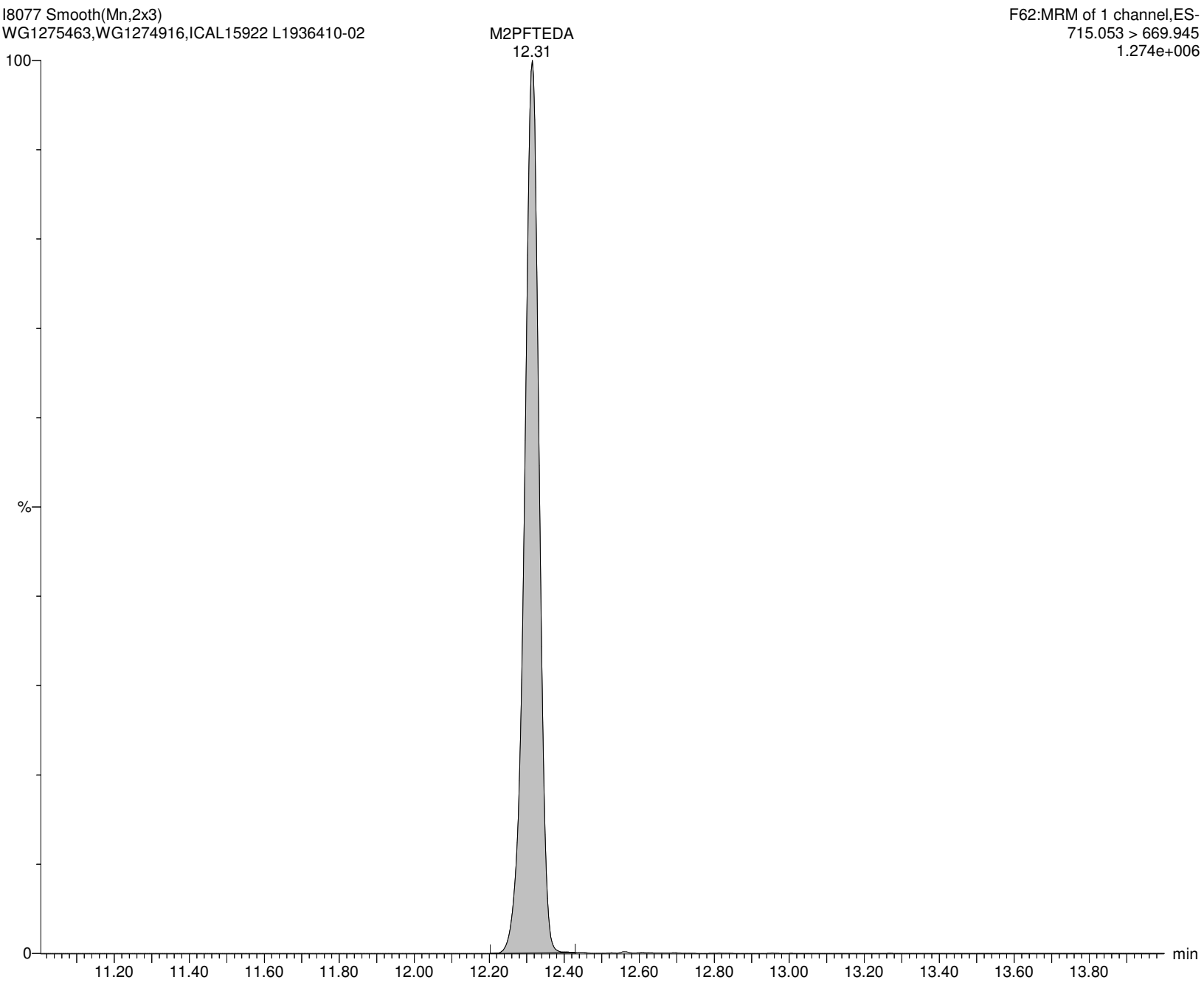


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M2PFTEDA



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Method: C:\MassLynx\Data\2019\190822_537ISO.PRO\MethDB\537ISO_Q_190702_DODRT.mdb 07 Aug 2019 10:42:09
Calibration: C:\MassLynx\Data\2019\190822_537ISO.PRO\CurveDB\190702_ISO_ICAL.cdb 02 Jul 2019 11:07:37

ID: L1936410-03
Name: I8078
Date: 22-Aug-2019
Time: 15:14:45
Description: WG1275463,WG1274916,ICAL15922
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.08	212.926 > 169.111	1873		0.699		na	
2	M3PFBA	INT STD	2.08	215.926 > 172.122	28123		7.271		na	72.7
3	MPFBA	INT STD	2.08	216.926 > 172.137	29429		9.332		na	93.3
4	PFPeA	2706-90-3	4.97	262.926 > 219.002	867		0.151		na	
5	M5PFPEA	INT STD	4.98	267.989 > 223.081	55790		12.498		na	125.0
6	PFBS	375-73-5	5.65	298.926 > 79.923	169		0.106	1.14	YES	
7	M3PFBS	INT STD	5.64	301.989 > 80.254	10715		8.570		na	85.7
8	4:2FTS	757124-72-4		326.926 > 306.957			ND		YES	
9	M2-4:2FTS	INT STD	6.83	329.117 > 309.079	6219		8.301		na	83.0
10	PFHxA	307-24-4	6.90	312.989 > 269.028	2347		0.321		YES	
11	M5PFHxA	INT STD	6.90	317.989 > 273.045	73990		8.242		na	82.4
12	PFPeS	2706-91-4		348.926 > 80.251			ND		YES	
13	PFHpA	375-85-9	8.20	362.926 > 319.014	3223		0.333	5.34	NO	
14	M4PFHpA	INT STD	8.20	366.926 > 321.979	96929		8.474		na	84.7
15	br-PFHxS	355-46-4		398.926 > 80.295			ND		YES	
16	L-PFHxS	355-46-4		398.926 > 80.295			ND		YES	
17	PFHxS	355-46-4		398.926 > 80.295	0		ND		na	
18	M3PFHxS	INT STD	8.36	401.926 > 80.317	7035		9.079		na	90.8
19	br-PFOA	335-67-1	8.92	412.989 > 368.9	5010	m5	0.515	2.49	YES	
20	L-PFOA	335-67-1	9.15	412.989 > 368.9	26665		2.743	8.78	NO	
21	M2PFOA	INT STD	9.15	415.032 > 369.968	106488		11.679		na	116.8
22	PFOA	335-67-1		412.989 > 368.9	31675		3.259		na	
23	M8PFOA	INT STD	9.15	420.989 > 375.979	97925		9.255		na	92.6
24	6:2FTS	27619-97-2		426.989 > 406.921			ND		YES	
25	M2-6:2FTS	INT STD	9.11	428.989 > 408.917	3724		5.516		na	55.2
26	PFHpS	375-92-8		448.926 > 80.257			ND		YES	
27	PFNA	375-95-1	9.91	462.989 > 418.931	414		0.050		YES	
28	M9PFNA	INT STD	9.91	472.053 > 426.947	91385		9.327		na	93.3
29	br-PFOS	1763-23-1	9.70	498.989 > 80.294	523	m5	0.545		YES	
30	L-PFOS	1763-23-1	9.97	498.989 > 80.294	191		0.210		YES	
31	PFOS	1763-23-1		498.989 > 80.294	714		0.755		na	
32	M4PFOS	INT STD	9.96	503.032 > 80.306	9393		12.630		na	126.3
33	M8PFOS	INT STD	9.96	507.053 > 80.294	8824		8.722		na	87.2
34	PFDA	335-76-2		513.053 > 468.906			ND		YES	
35	M2PFDA	INT STD	10.54	515.053 > 469.934	81646		11.415		na	114.2
36	M6PFDA	INT STD	10.54	519.053 > 473.931	76979		8.432		na	84.3
37	8:2FTS	39108-34-4		526.926 > 506.818			ND		na	
38	M2-8:2FTS	INT STD	10.53	529.053 > 508.945	1392		3.756		na	37.6
39	PFNS	68259-12-1		548.989 > 80.249			ND		YES	

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	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.91	573.096 > 418.987	5294		5.844		na	58.4
41	NMeFOSAA	2355-31-9		570.053 > 418.917			ND		YES	
42	PFUnA	2058-94-8		562.989 > 518.903			ND		YES	
43	M7-PFUDA	INT STD	11.07	570.053 > 524.923	64406		7.978		na	79.8
44	PFDS	335-77-3		598.926 > 80.314			ND		YES	
45	FOSA	754-91-6		497.989 > 78.245			ND		YES	
46	M8FOSA	INT STD	10.93	506.053 > 78.286	4078		1.501		na	15.0
47	d5-NEtFOSAA	INT STD	11.19	589.117 > 418.929	4201		5.118		na	51.2
48	NEtFOSAA	2991-50-6		583.989 > 418.927			ND		YES	
49	PFDoA	307-55-1		612.989 > 568.967			ND		YES	
50	MPFDOA	INT STD	11.54	614.989 > 569.92	67453		7.547		na	75.5
51	PFTrDA	72629-94-8		663.053 > 618.969			ND		YES	
52	PFTA	376-06-7		713.053 > 668.976			ND		YES	
53	M2PFTEDA	INT STD	12.32	715.053 > 669.945	56939		7.540		na	75.4

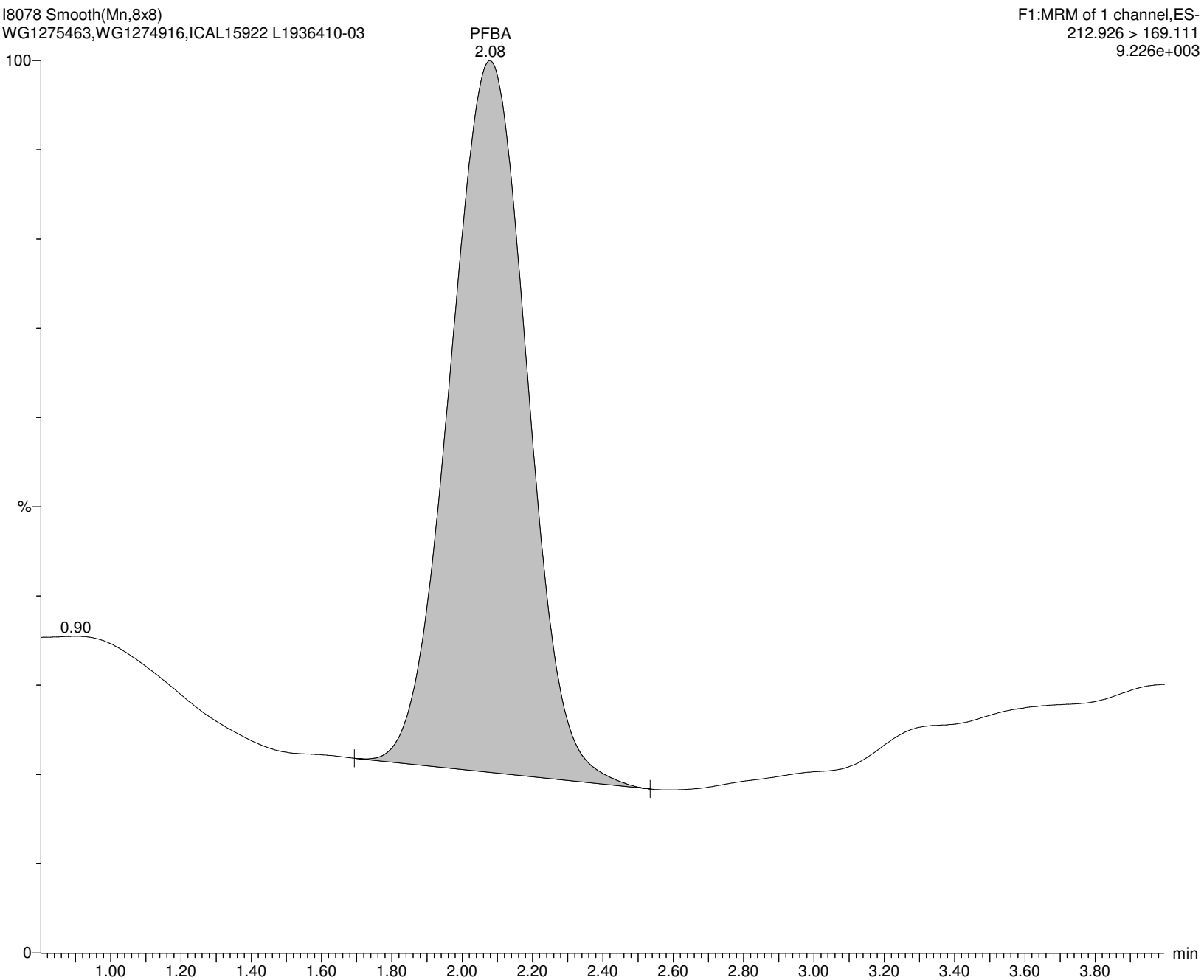
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MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

PFBA

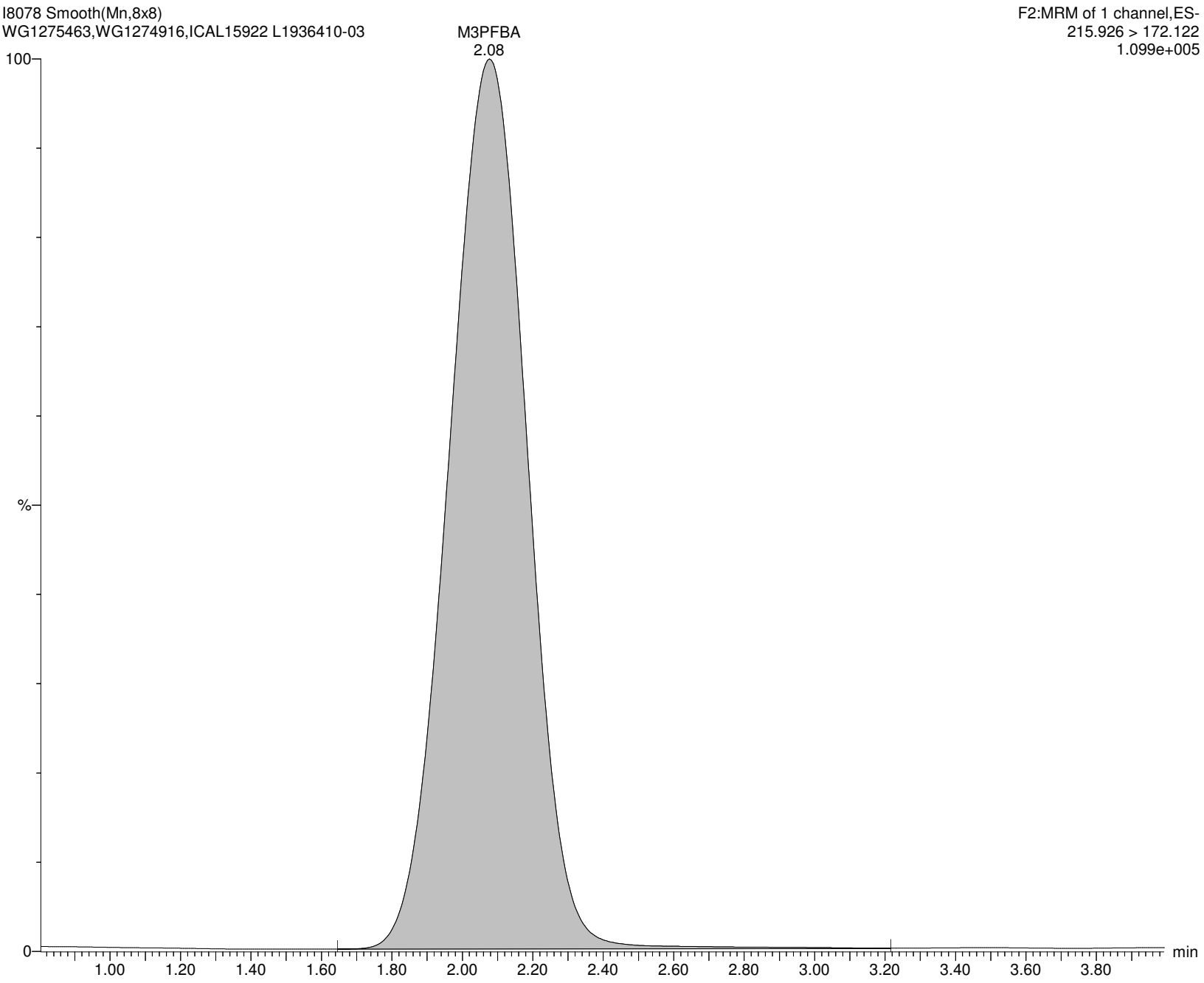


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, August 23, 2019 09:51:17 Eastern Daylight Time
Printed: Friday, August 23, 2019 09:51:32 Eastern Daylight Time

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ID: L1936410-03
Date: 22-Aug-2019
Time: 15:14:45
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:C,8
Instrument: XEVO-TQSmicro#QEB0050
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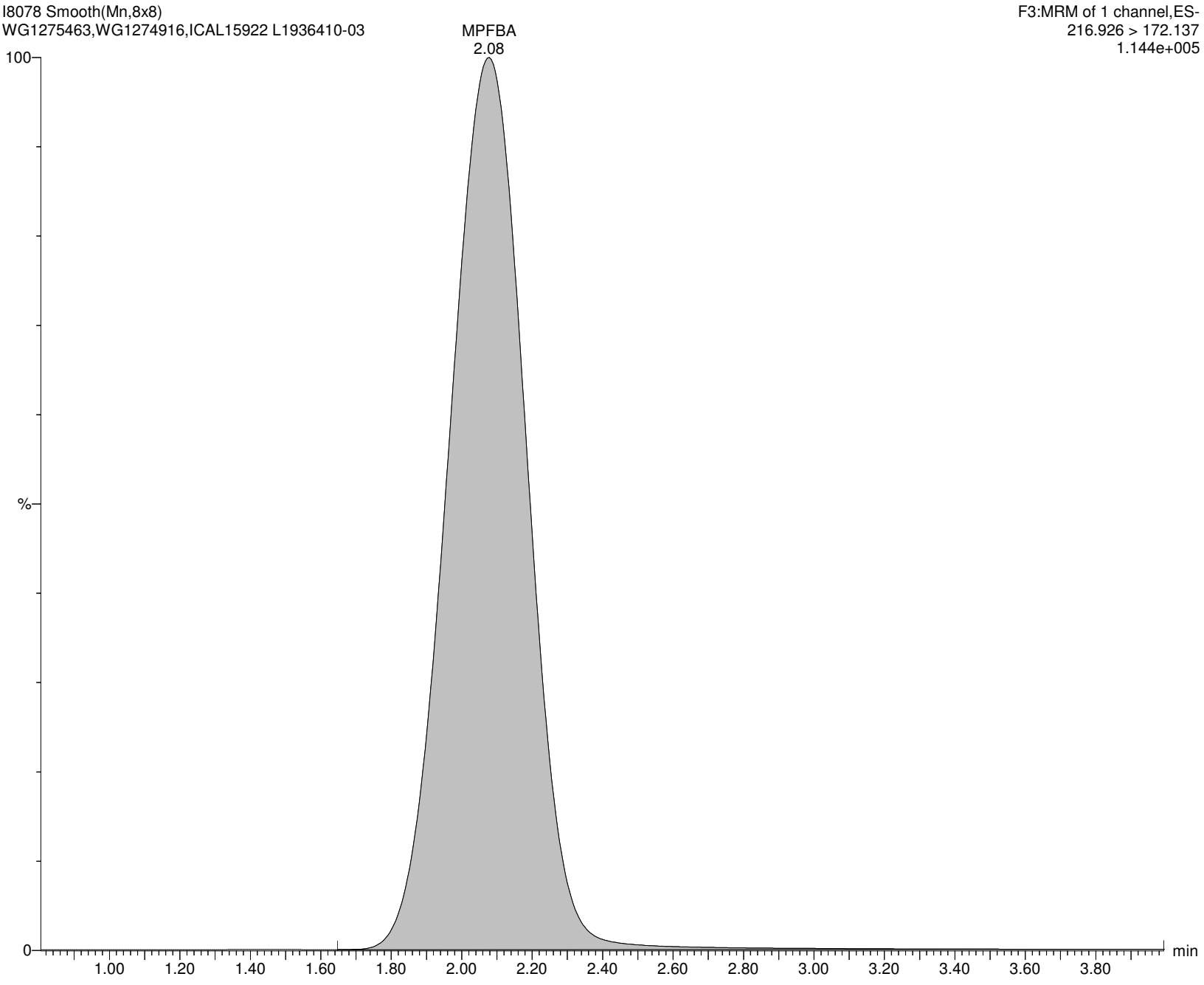


all concentration units in (ng/mL)

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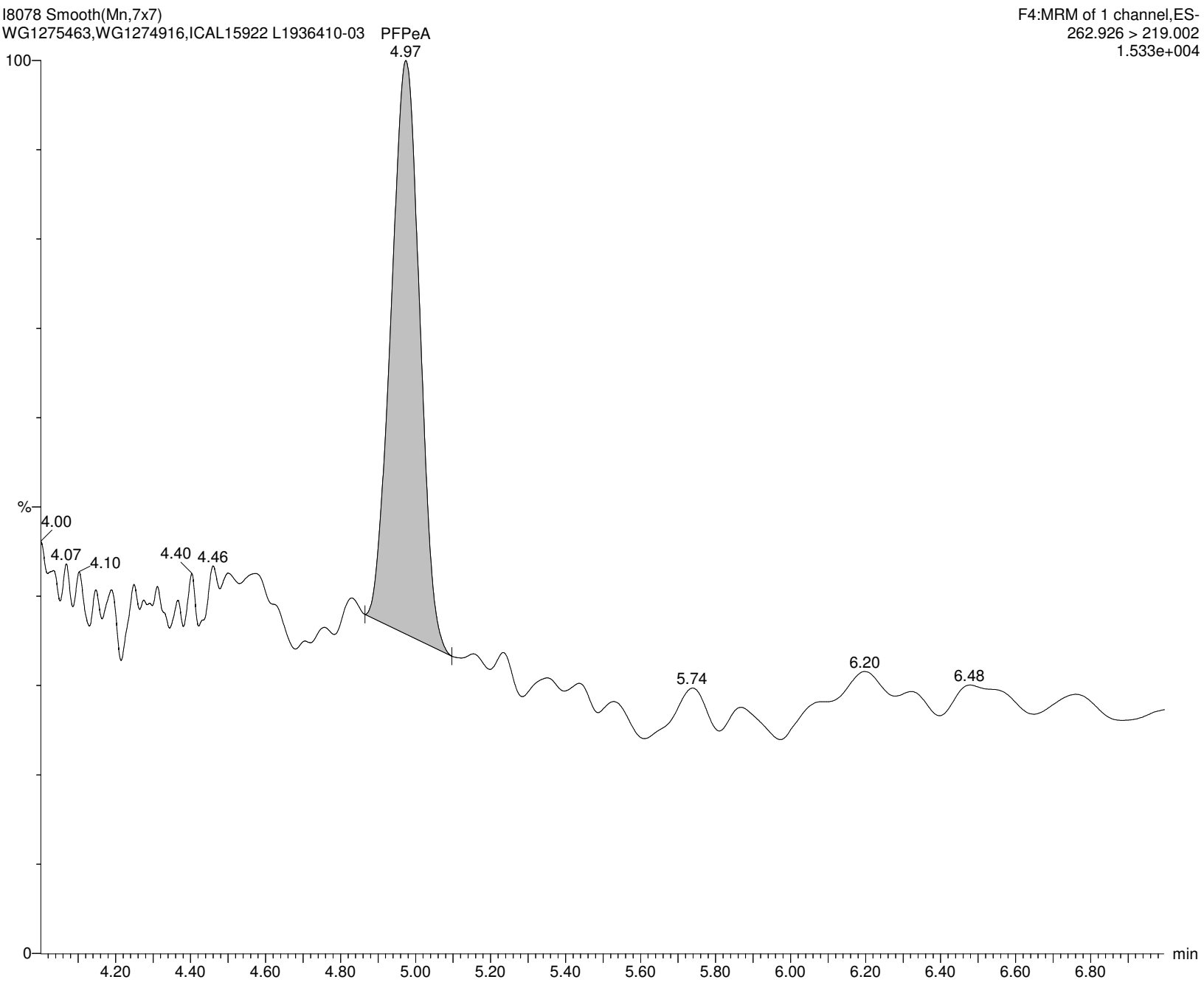


all concentration units in (ng/mL)

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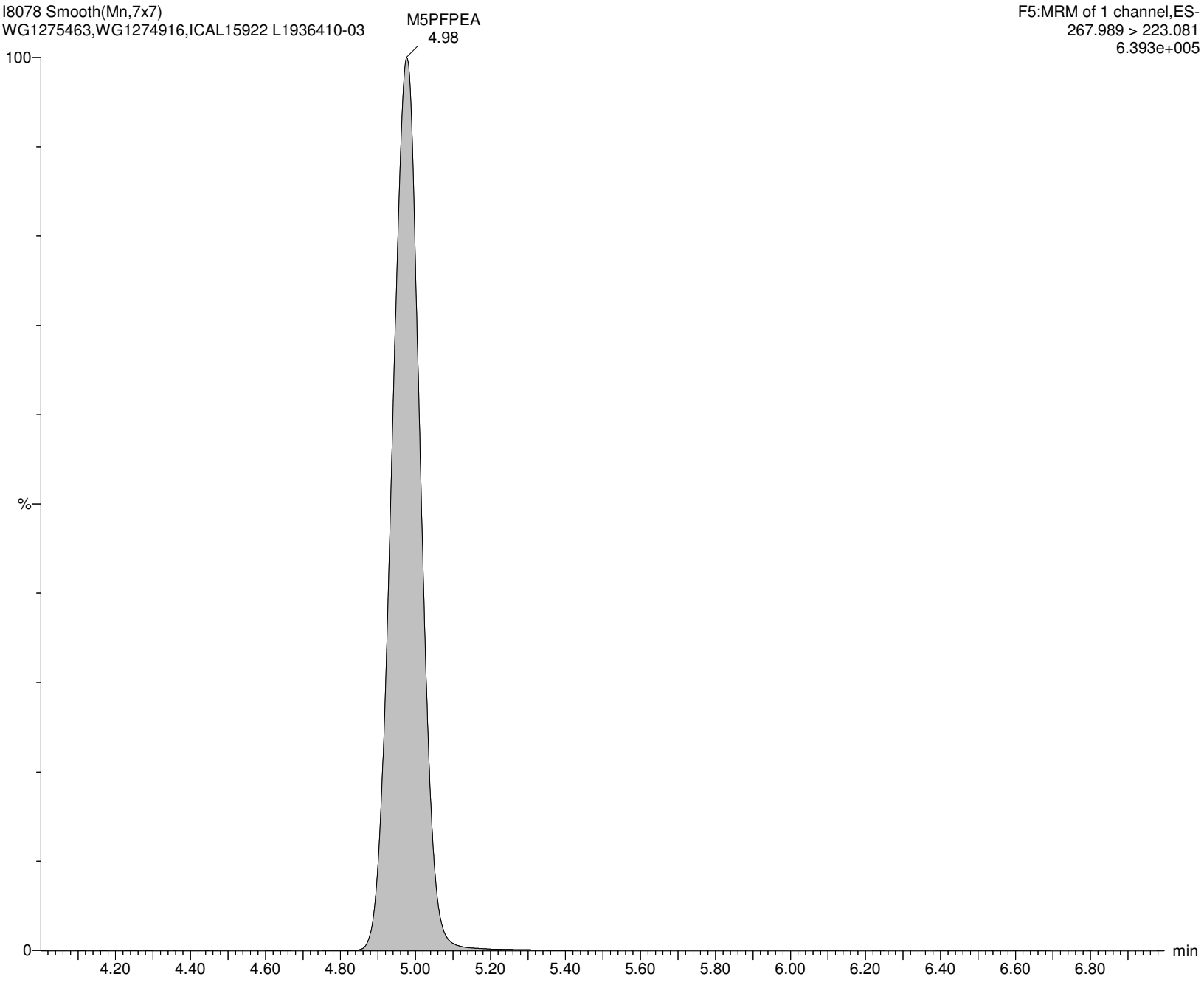


all concentration units in (ng/mL)

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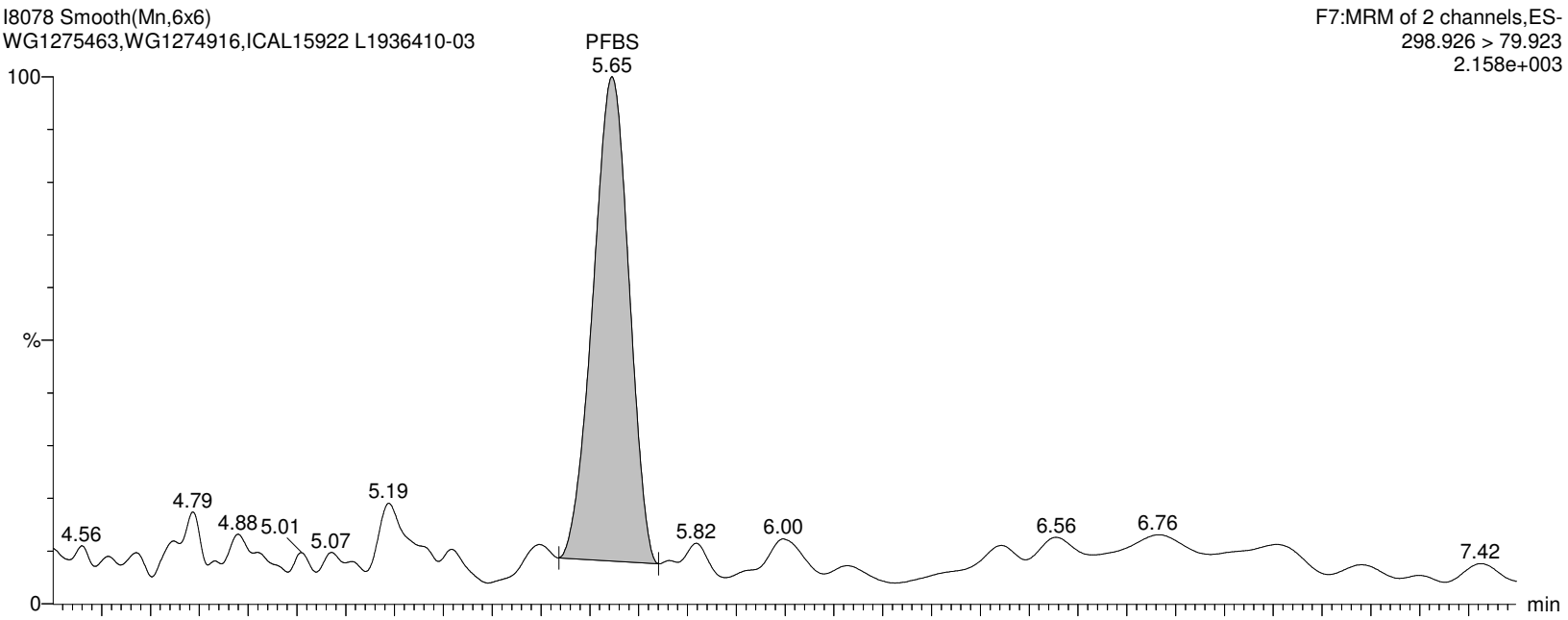


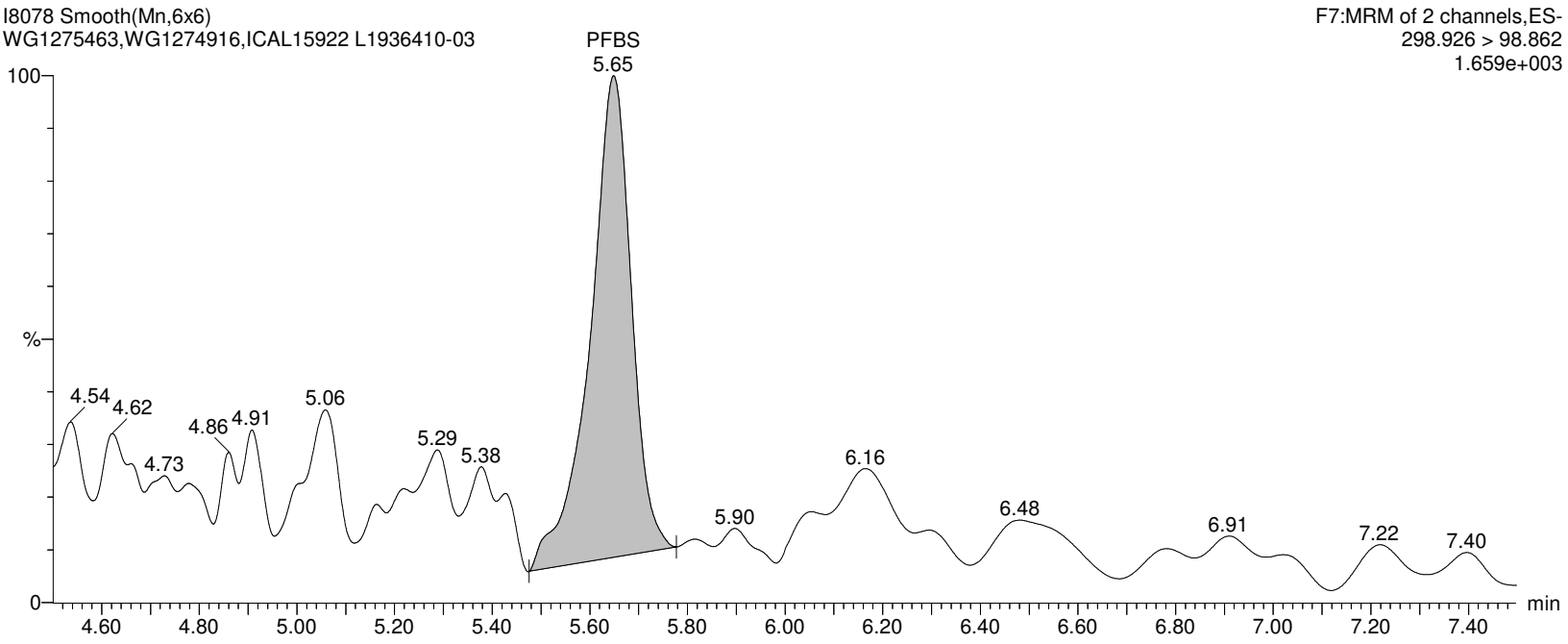
all concentration units in (ng/mL)

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PFBS



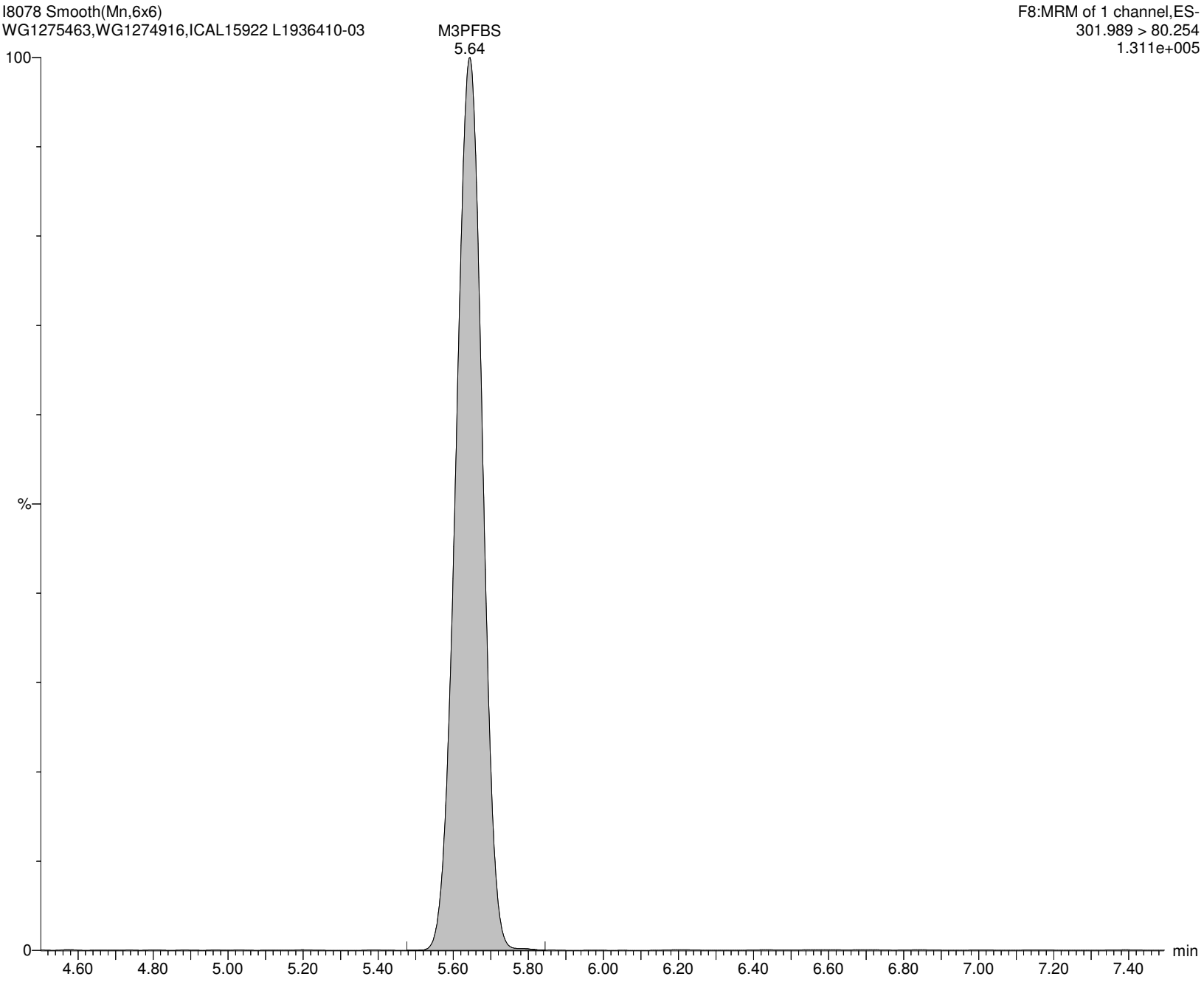


all concentration units in (ng/mL)

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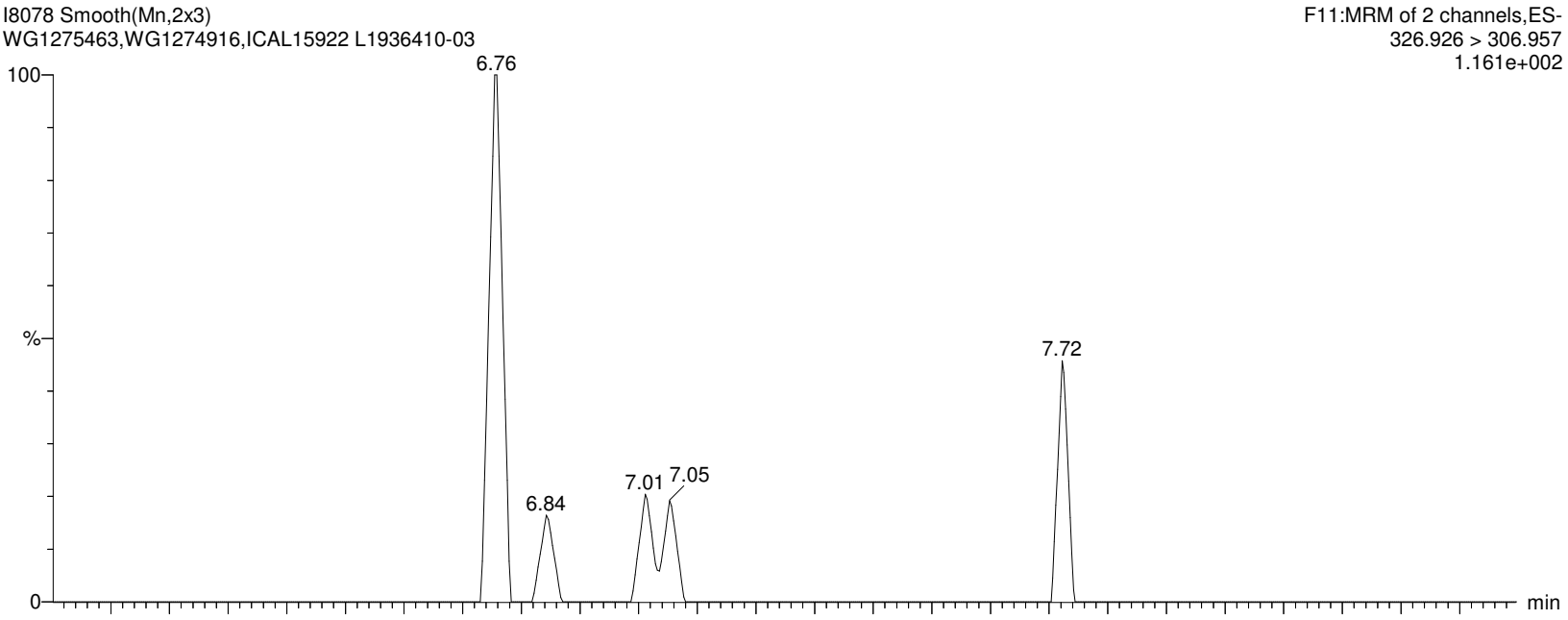


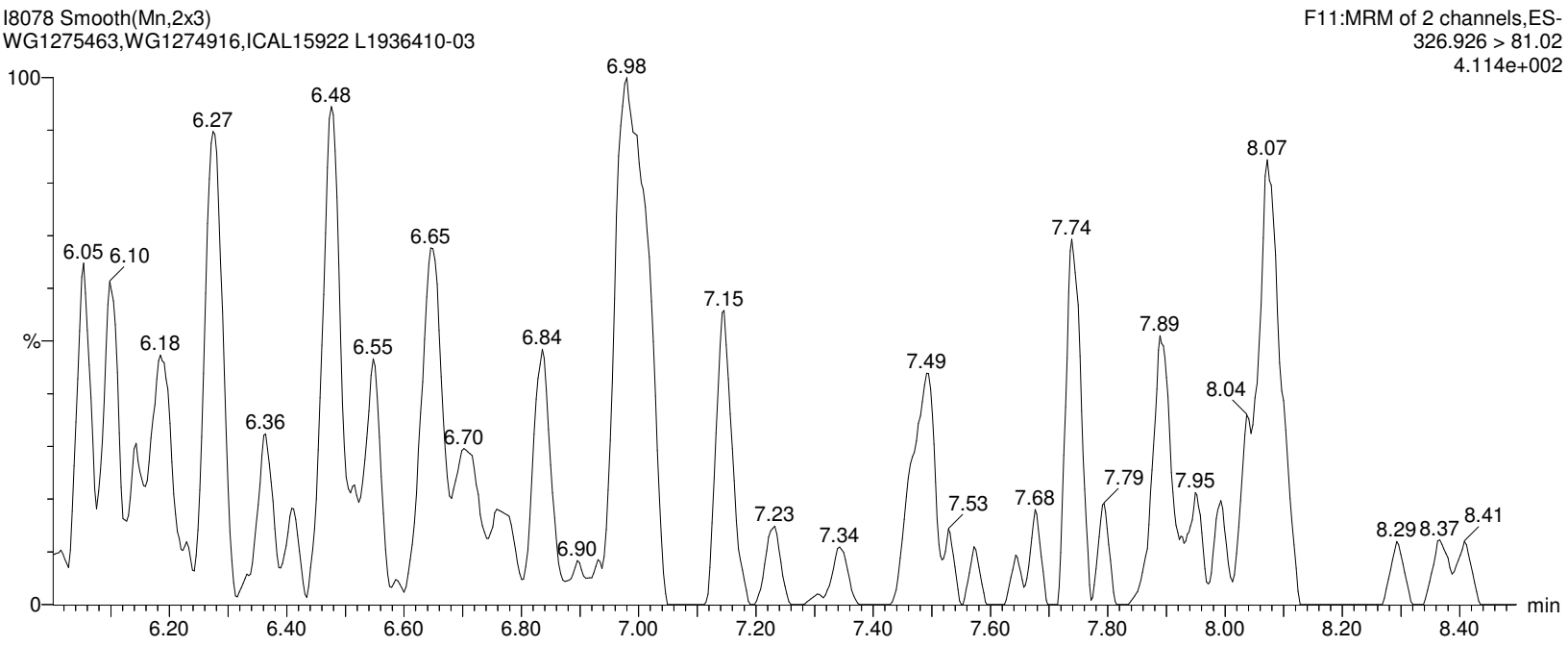
all concentration units in (ng/mL)

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4:2FTS



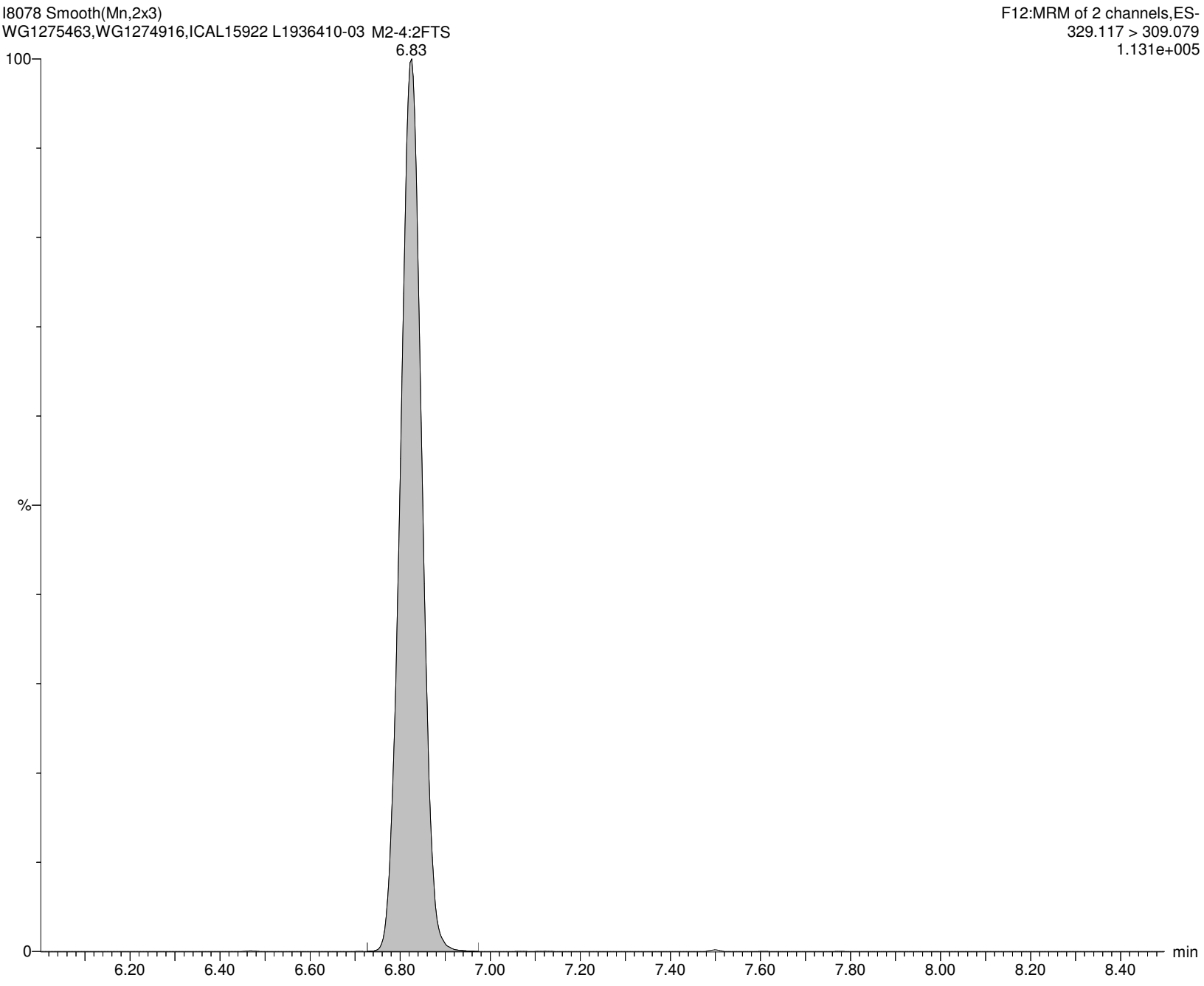


all concentration units in (ng/mL)

Alpha Analytical Inc.
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M2-4:2FTS

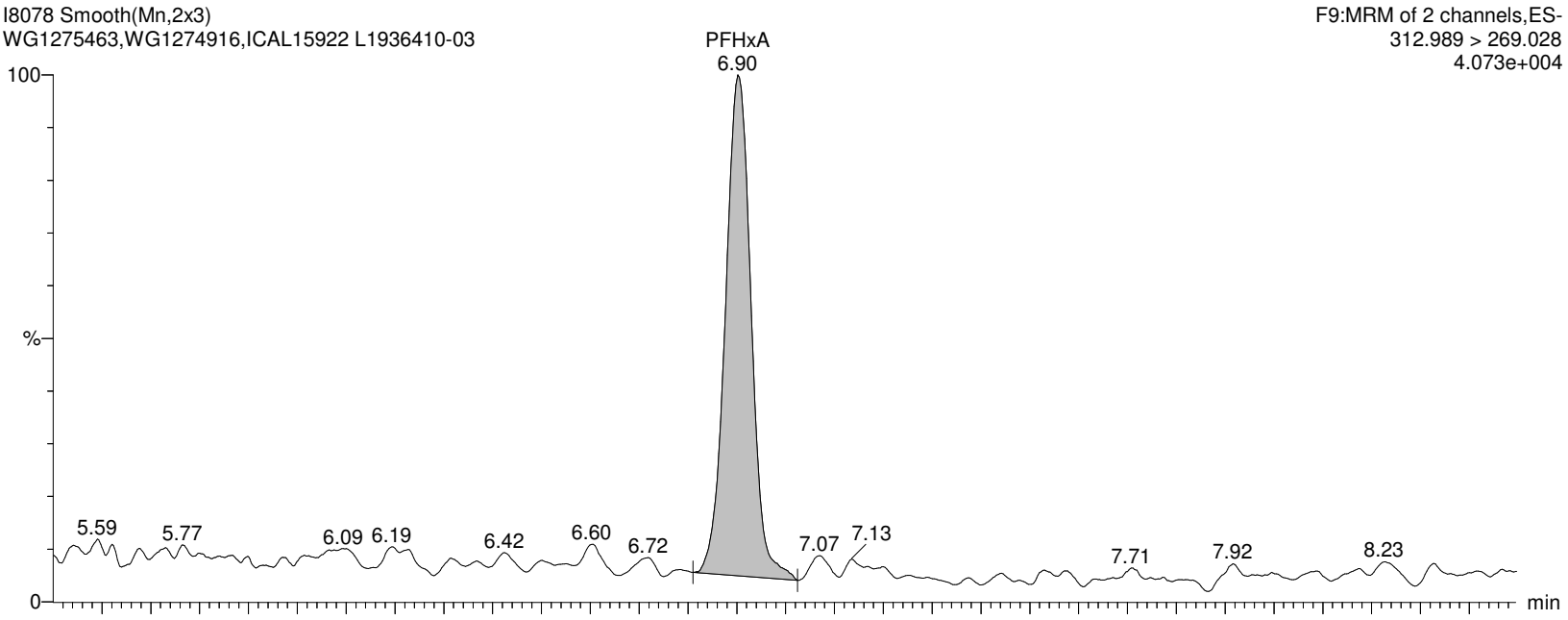


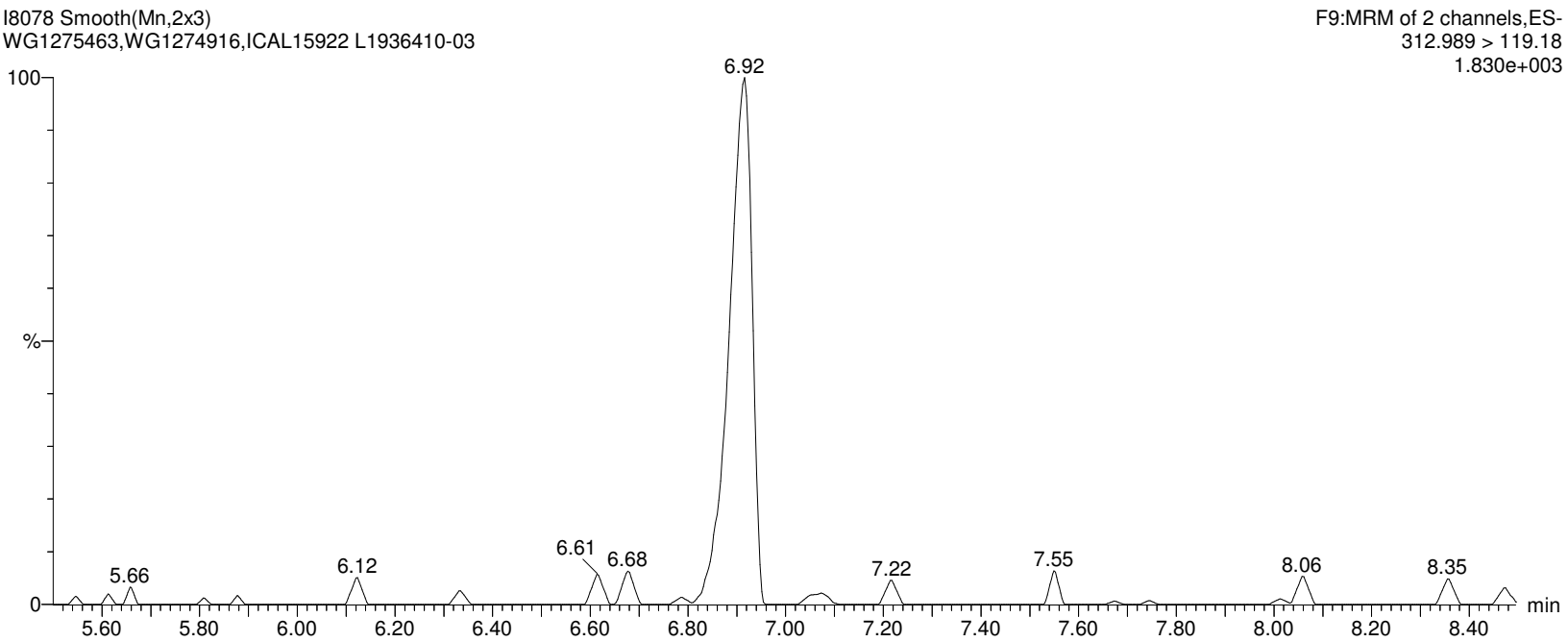
all concentration units in (ng/mL)

Alpha Analytical Inc.
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PFHxA



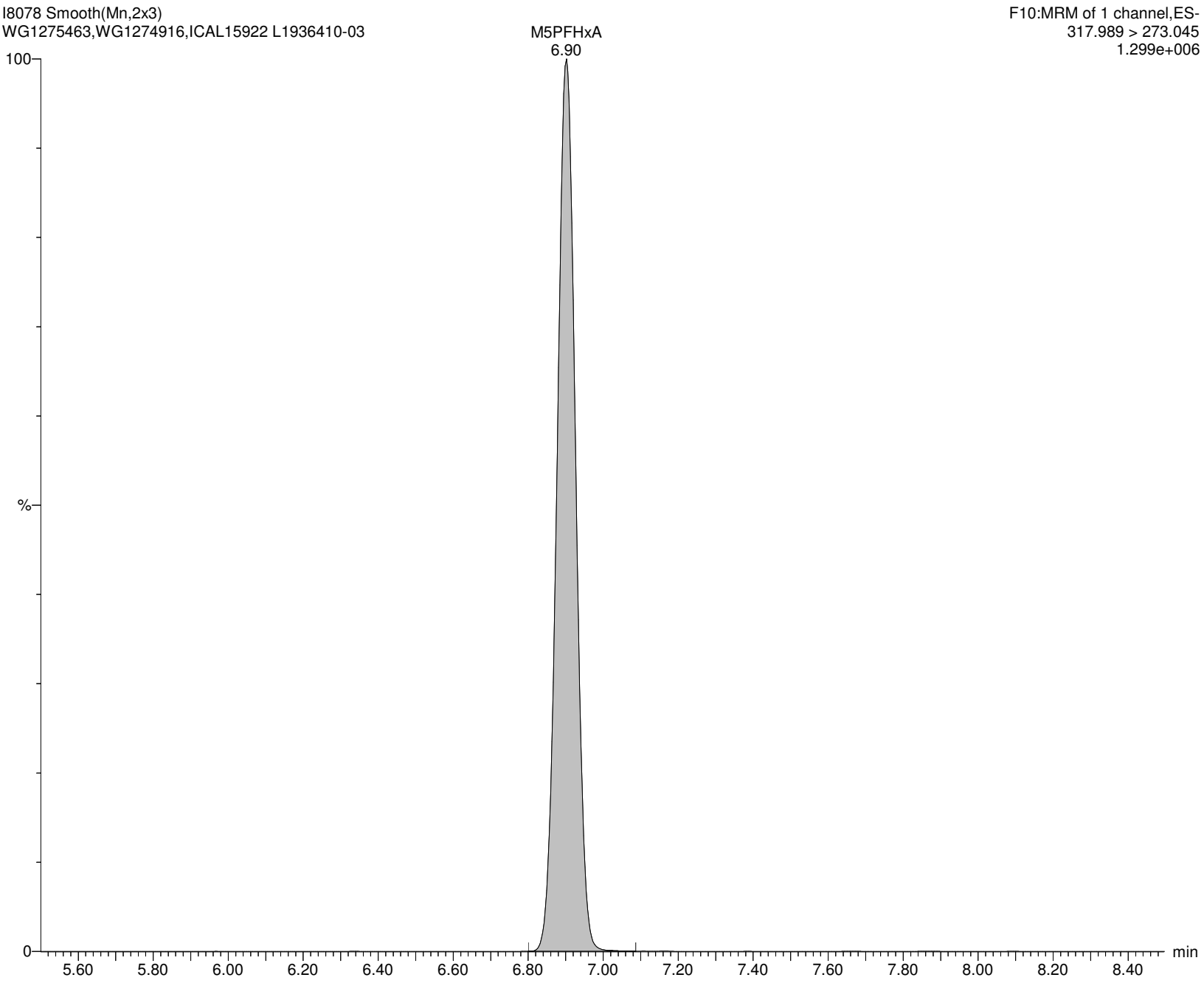


all concentration units in (ng/mL)

Alpha Analytical Inc.
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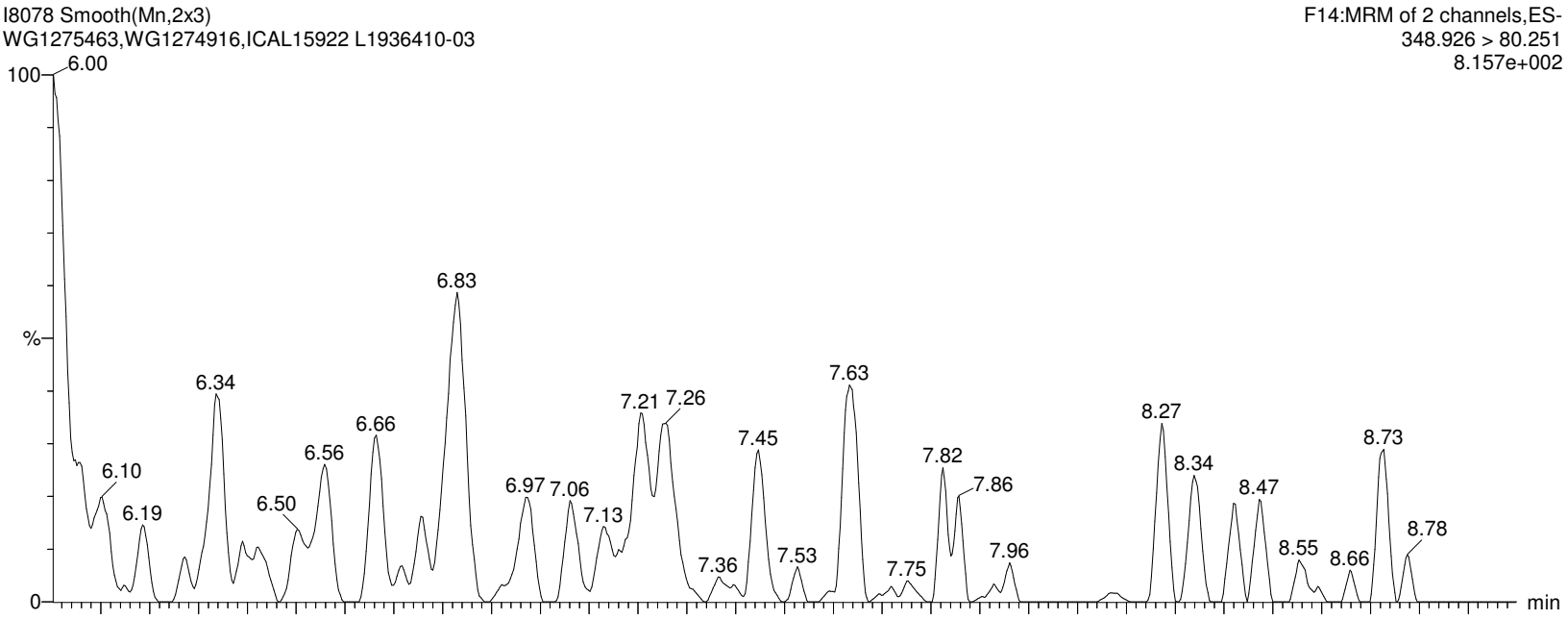


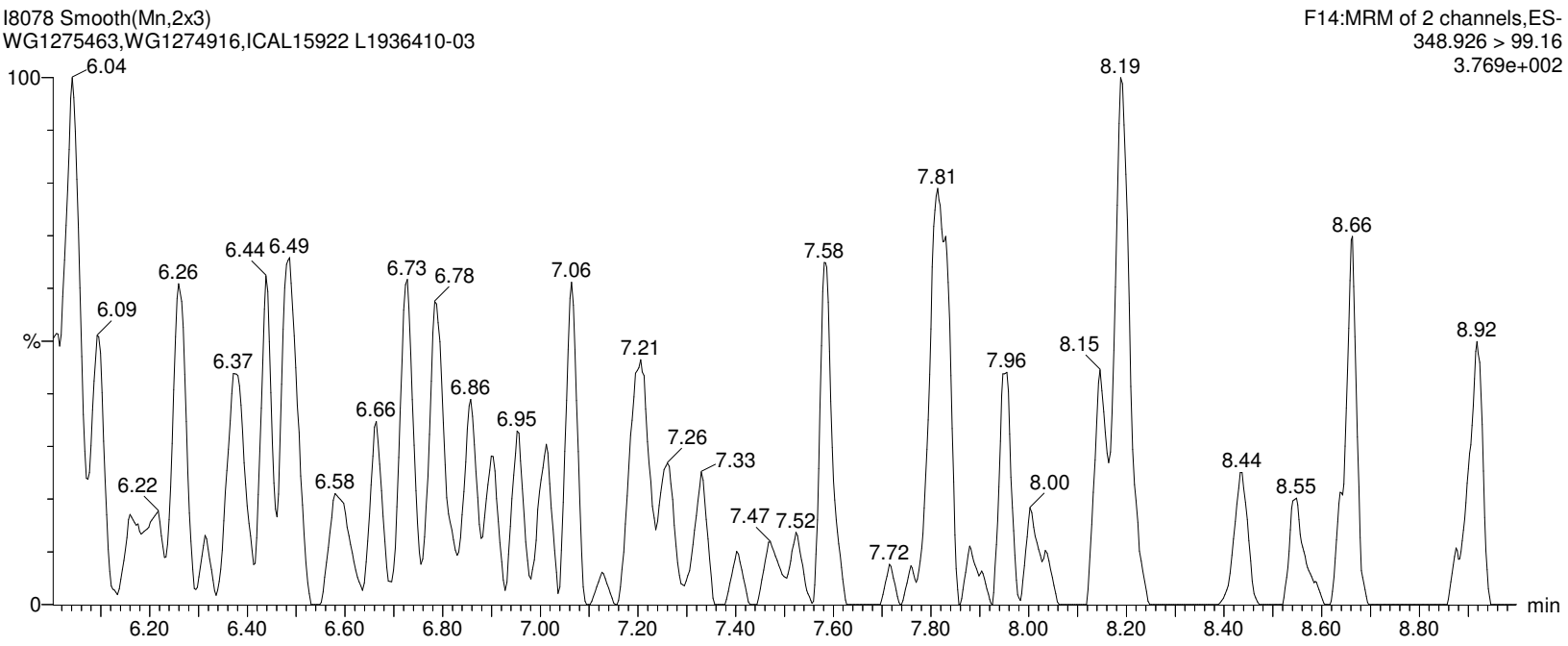
all concentration units in (ng/mL)

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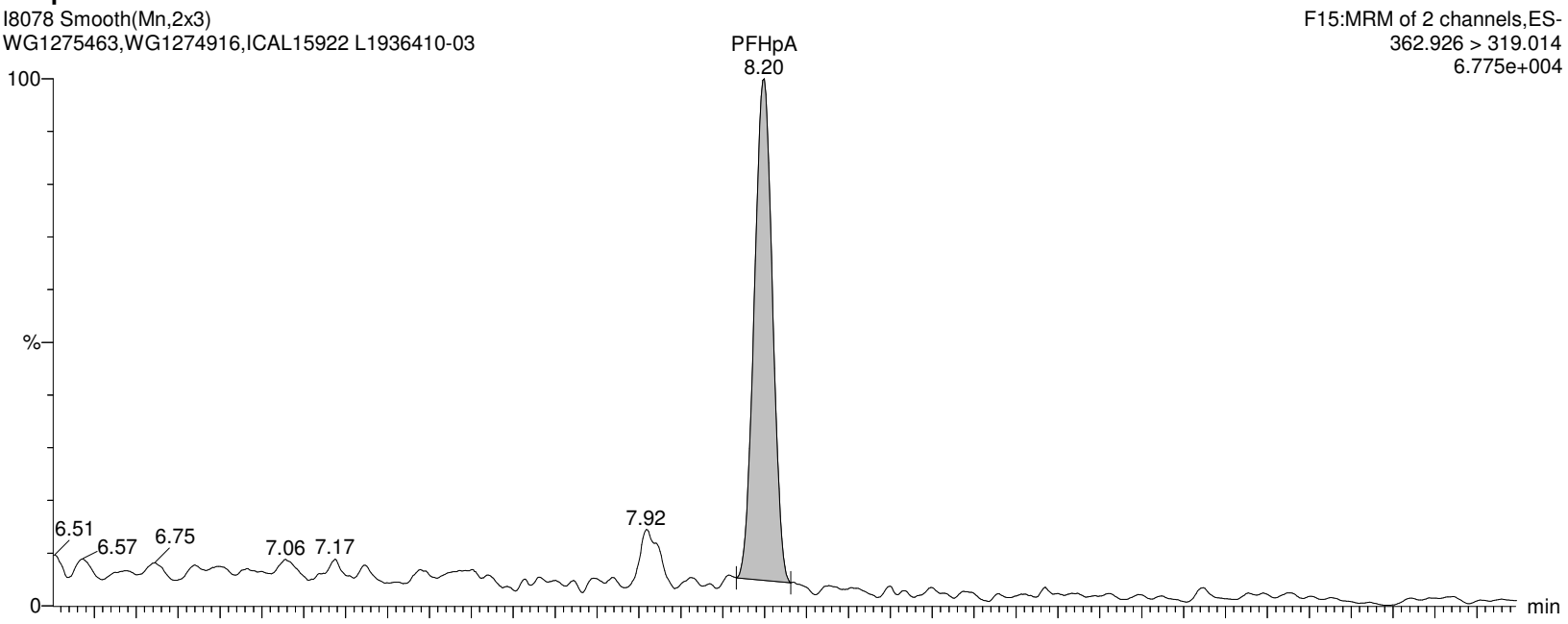


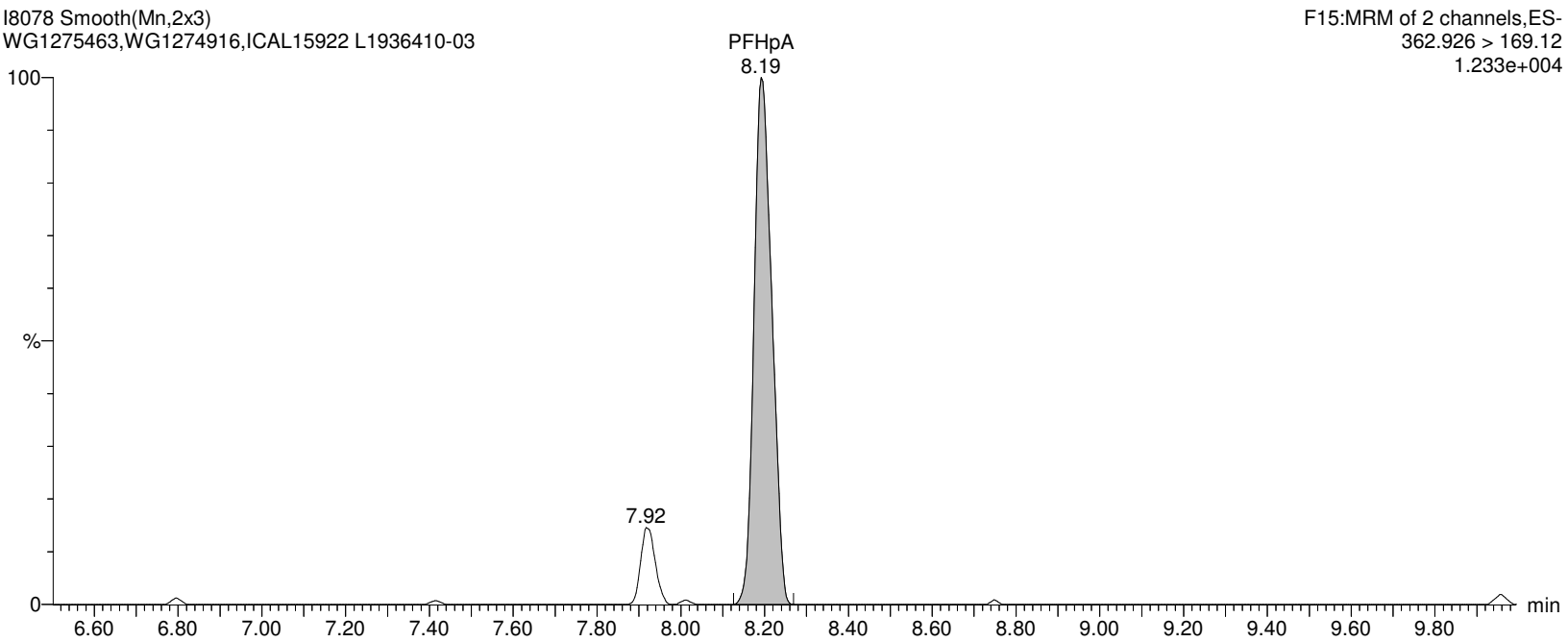
all concentration units in (ng/mL)

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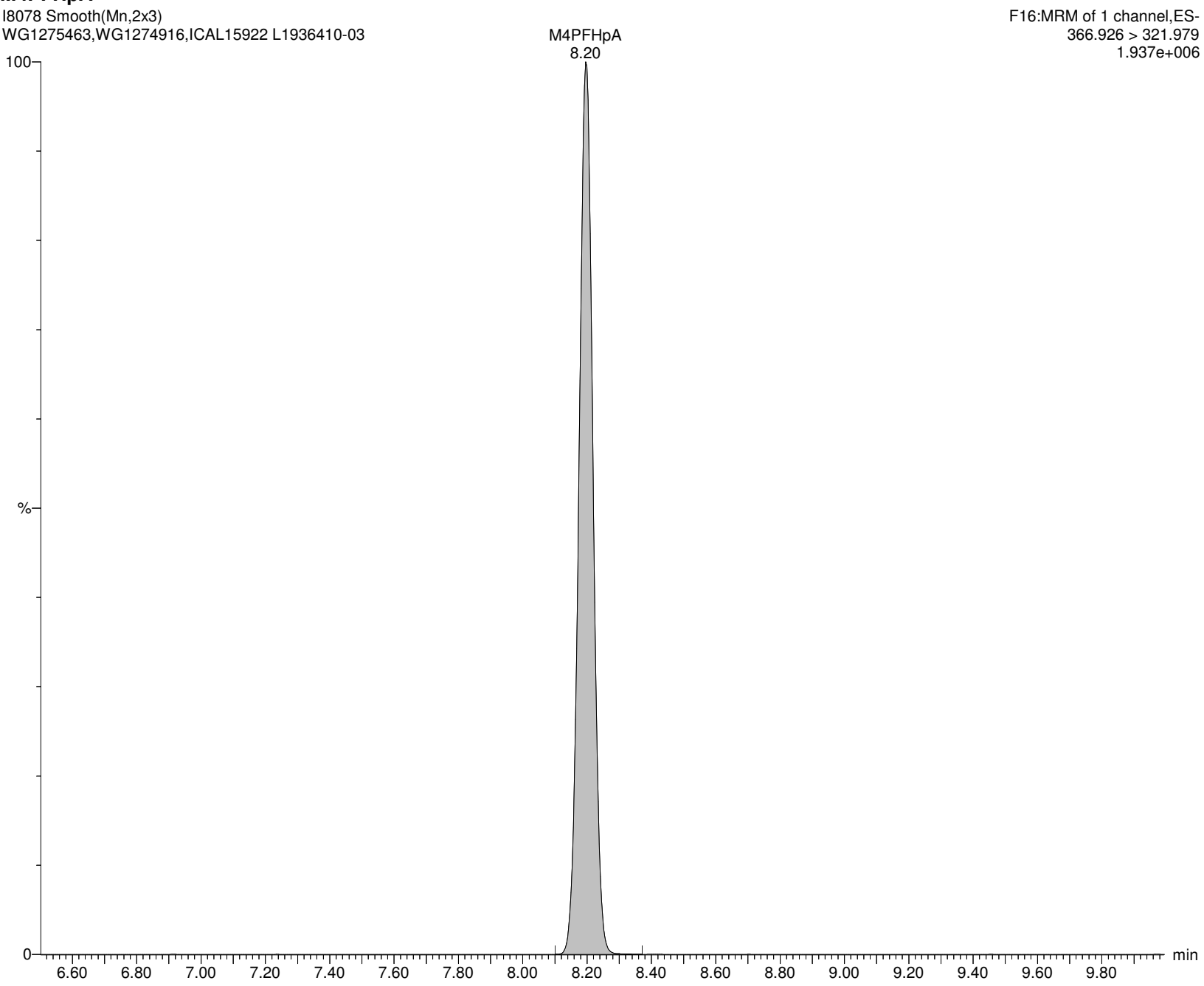


all concentration units in (ng/mL)

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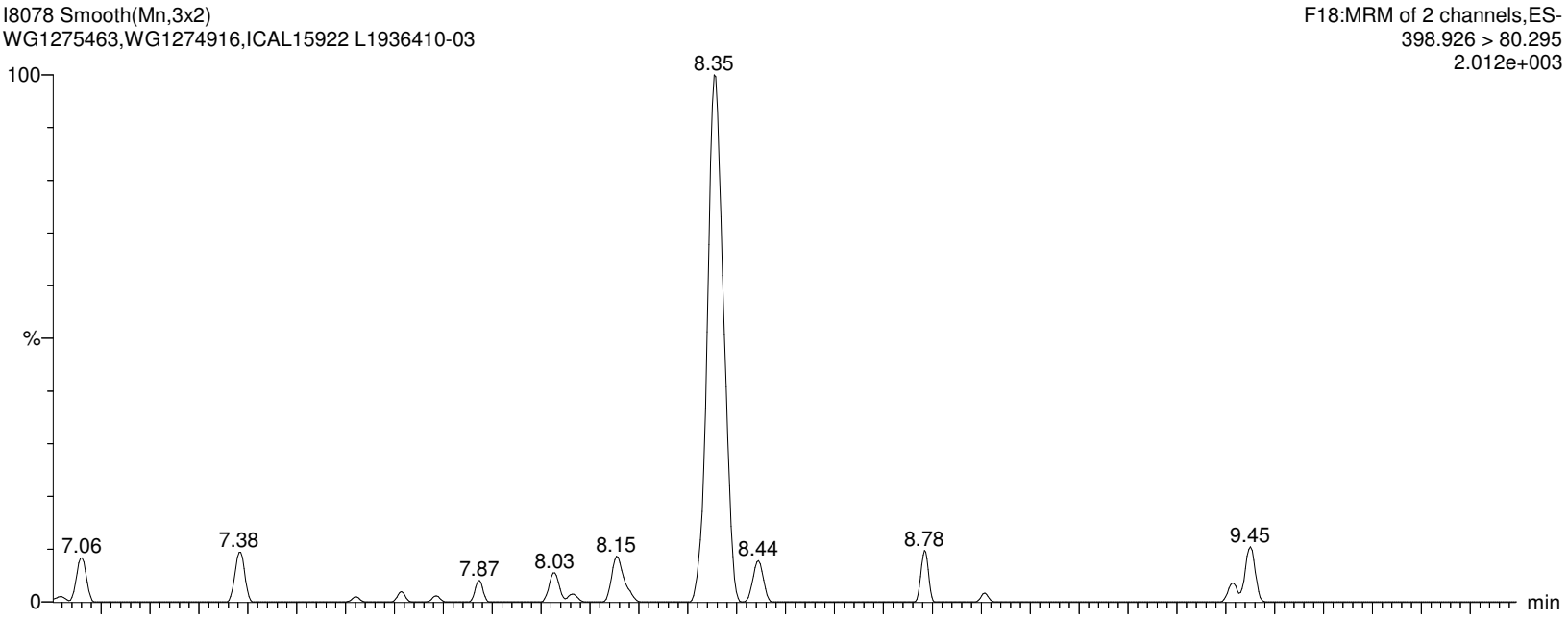


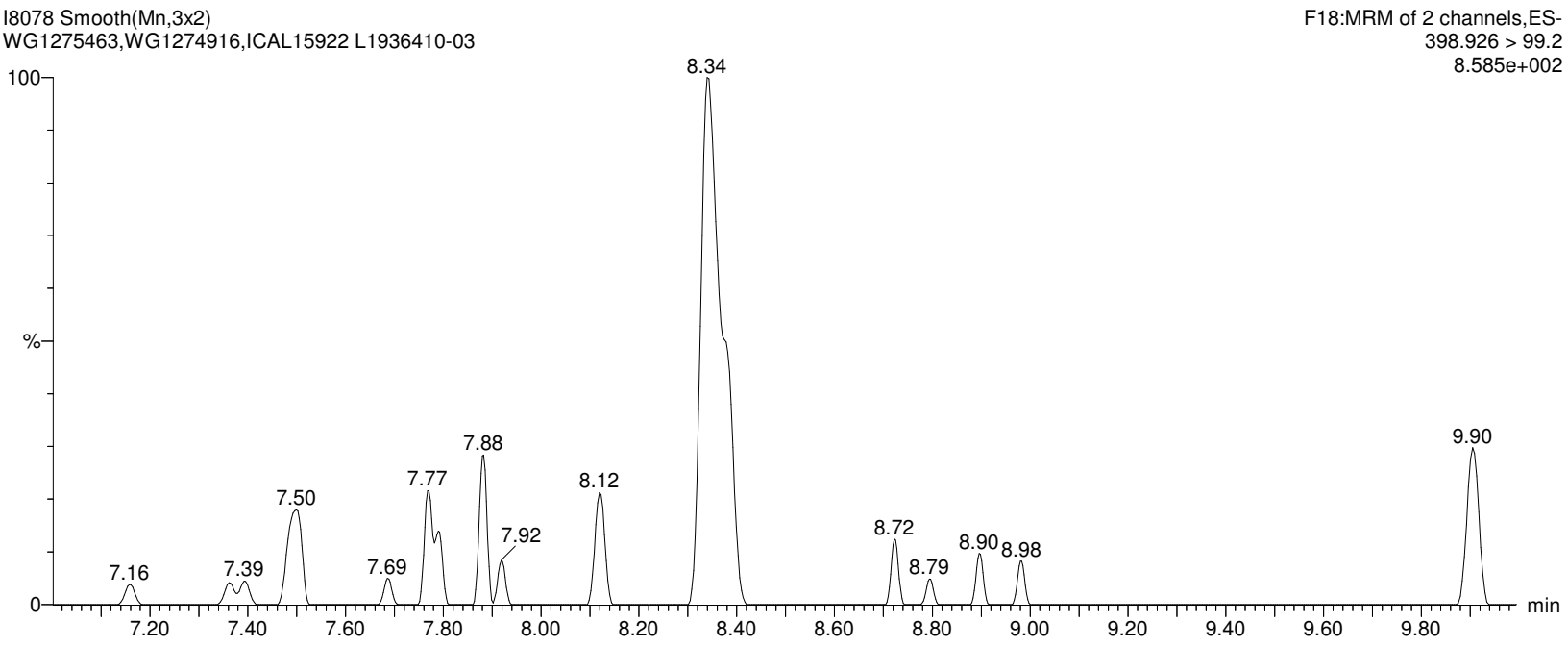
all concentration units in (ng/mL)

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br-PFHxS



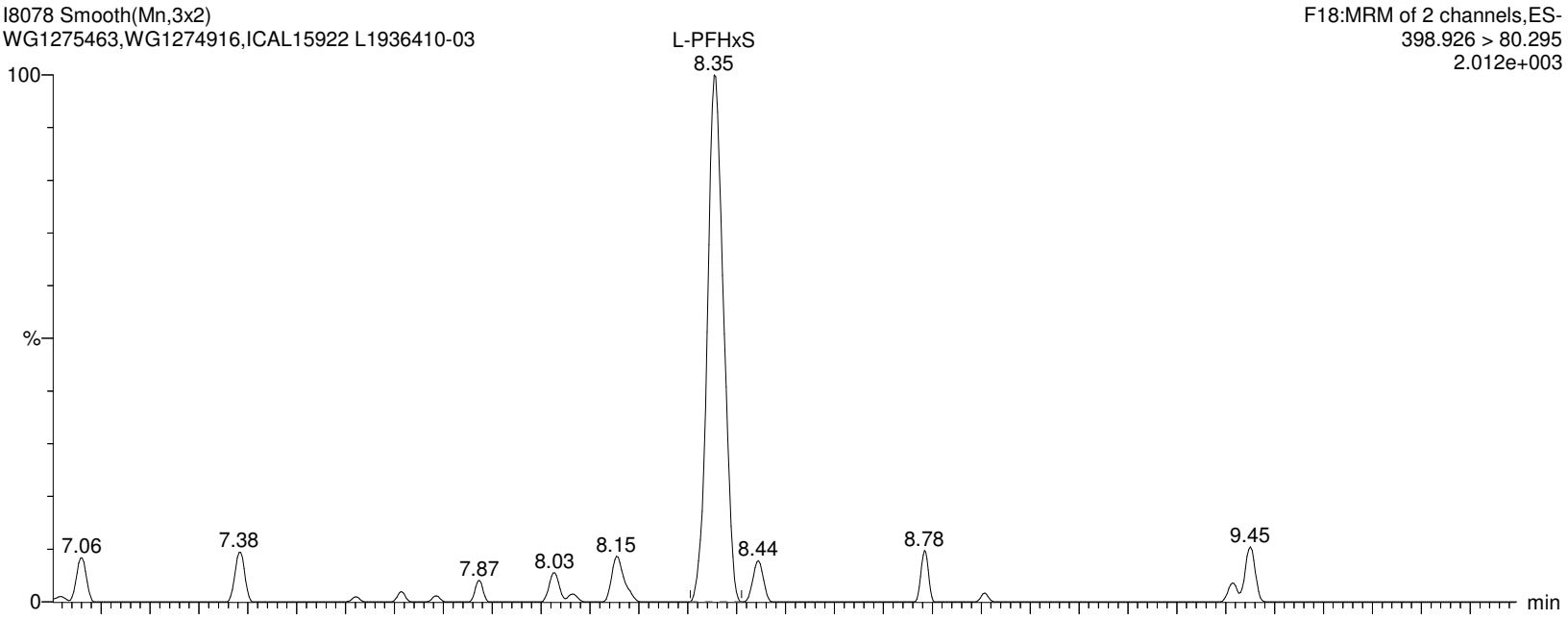


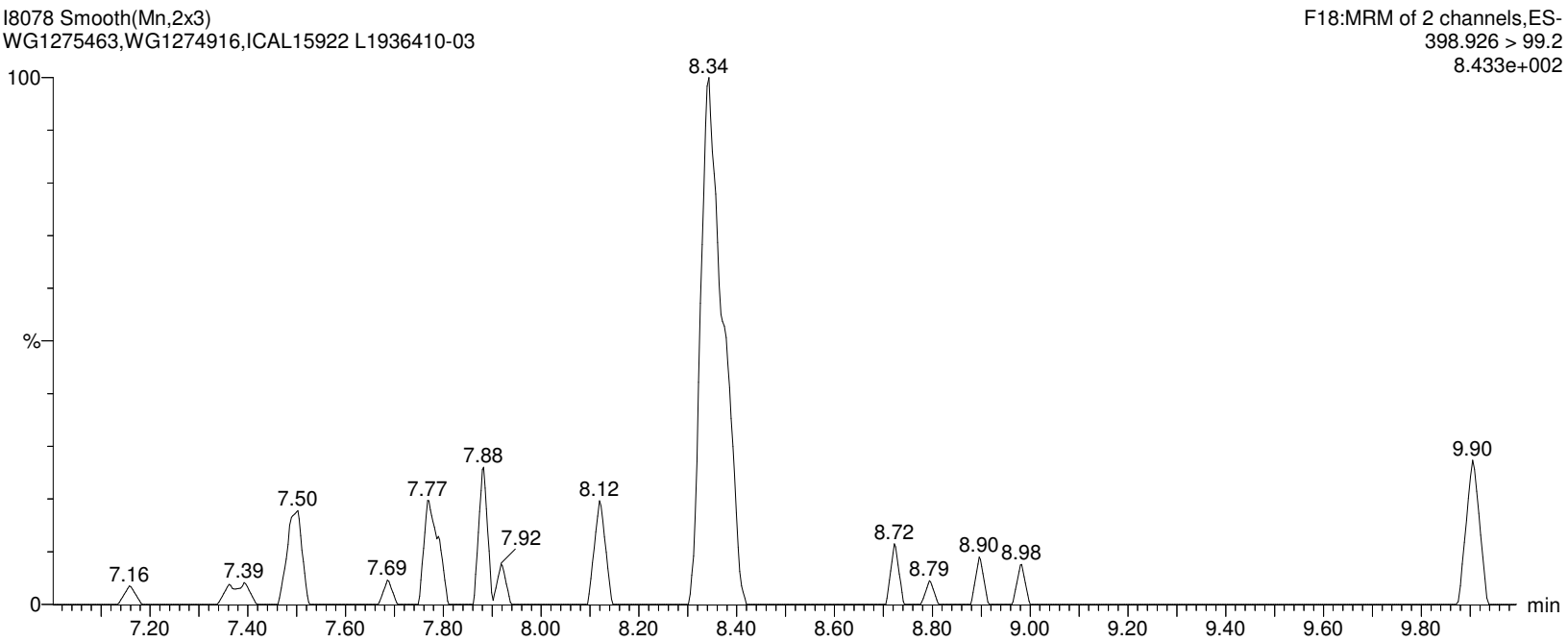
all concentration units in (ng/mL)

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L-PFHxS



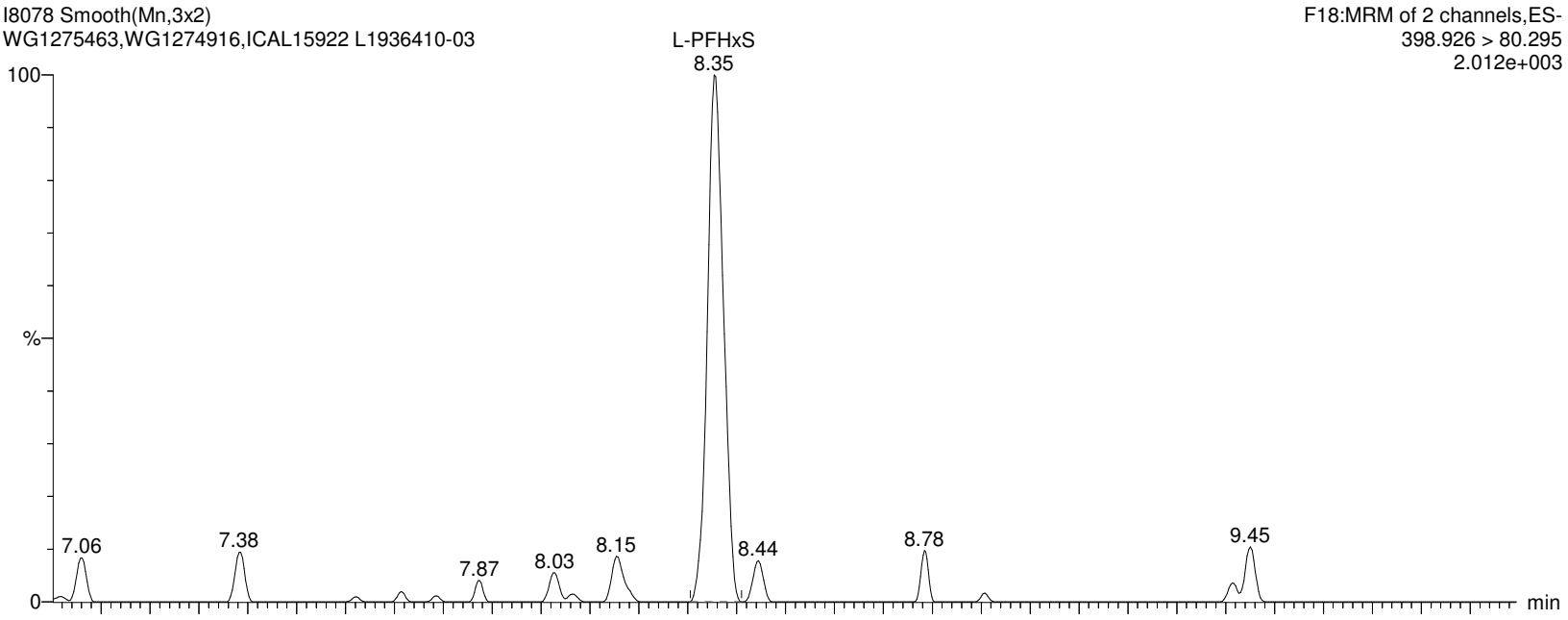


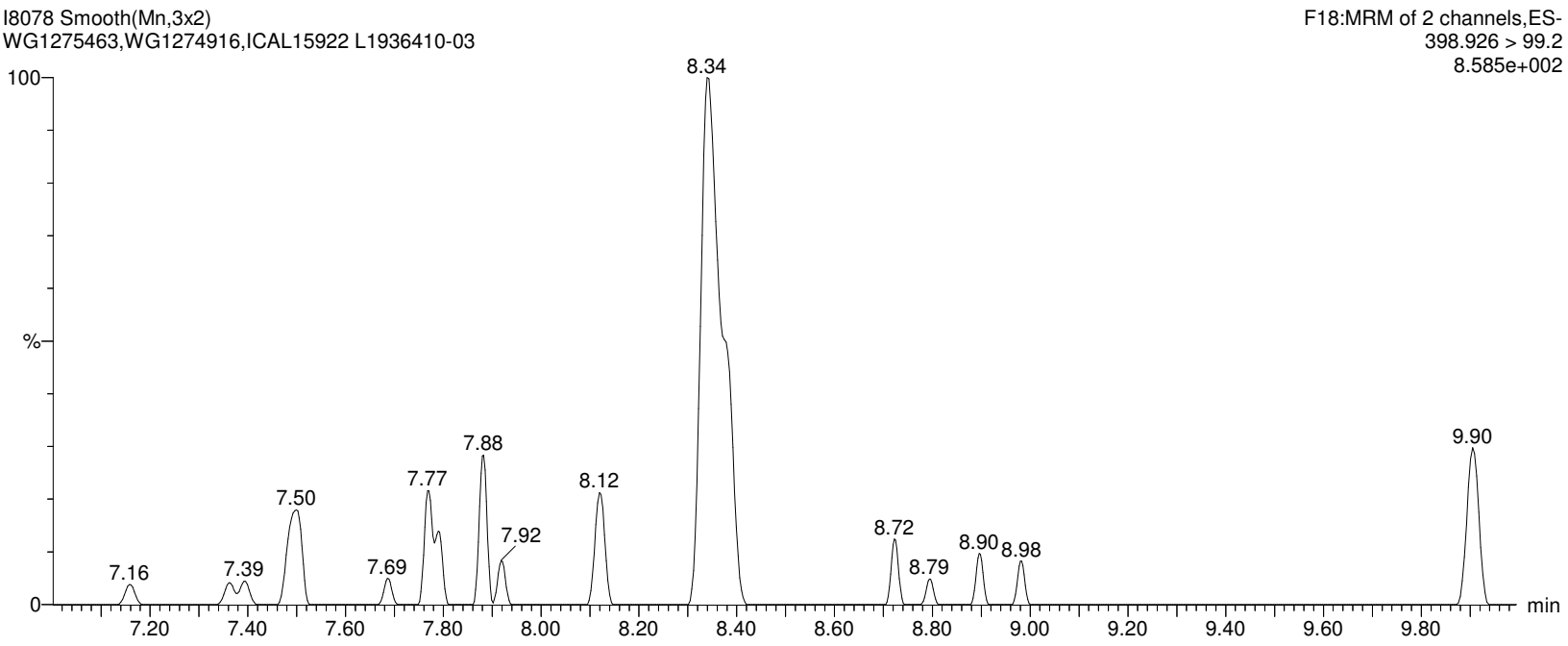
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Alpha Analytical Inc.
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Last Altered: Friday, August 23, 2019 09:51:17 Eastern Daylight Time
Printed: Friday, August 23, 2019 09:51:32 Eastern Daylight Time

Name: I8078
ID: L1936410-03
Date: 22-Aug-2019
Time: 15:14:45
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:C,8
Instrument: XEVO-TQSmicro#QEB0050
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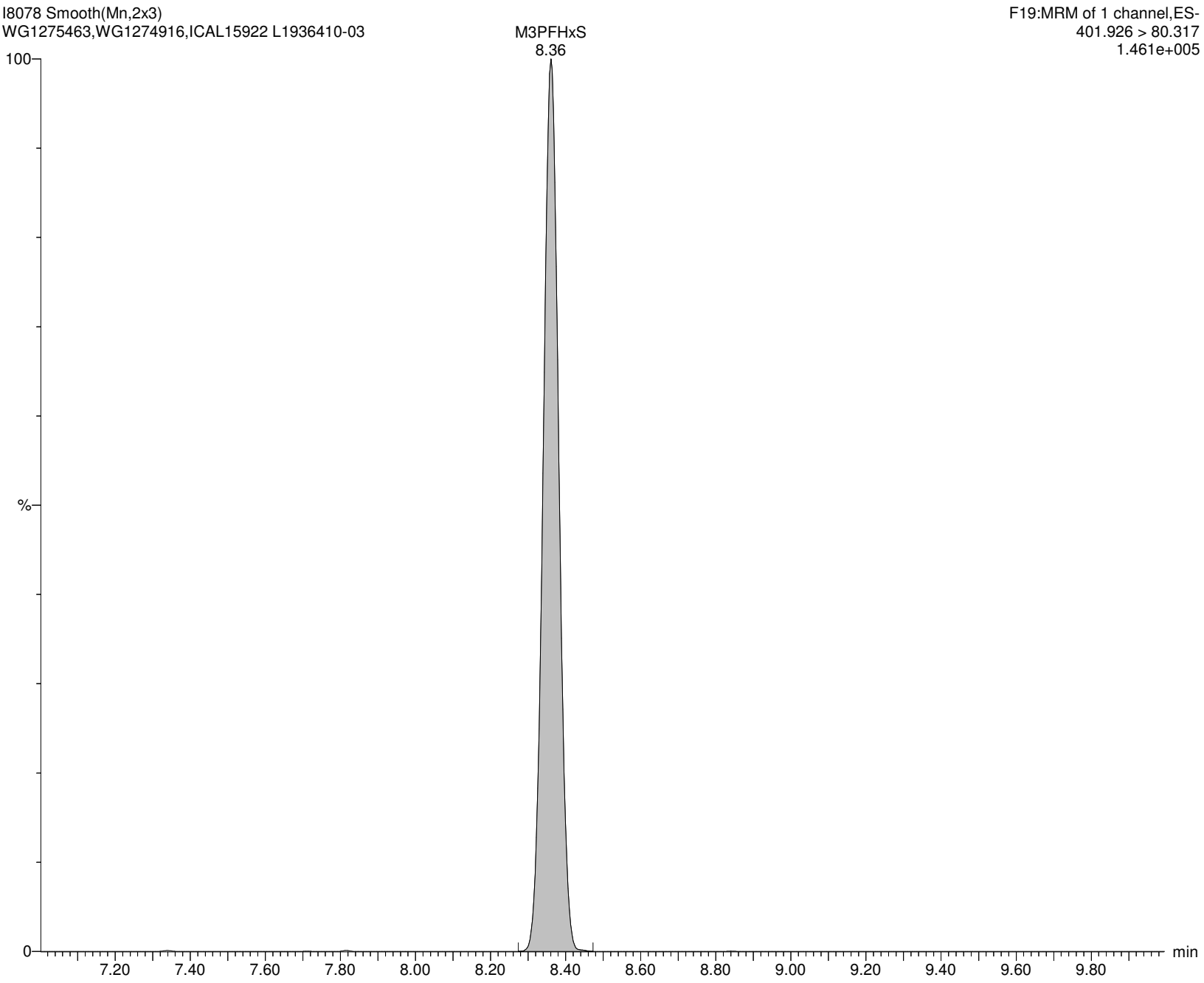


all concentration units in (ng/mL)

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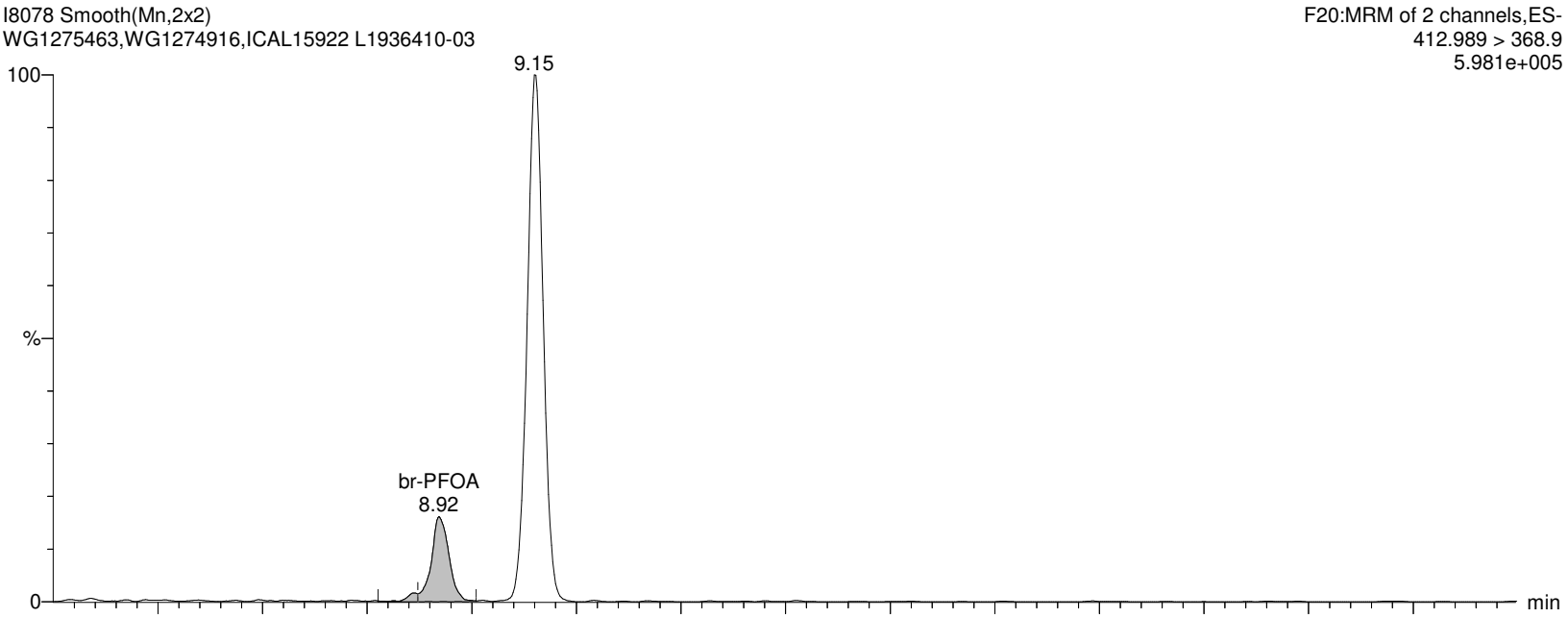


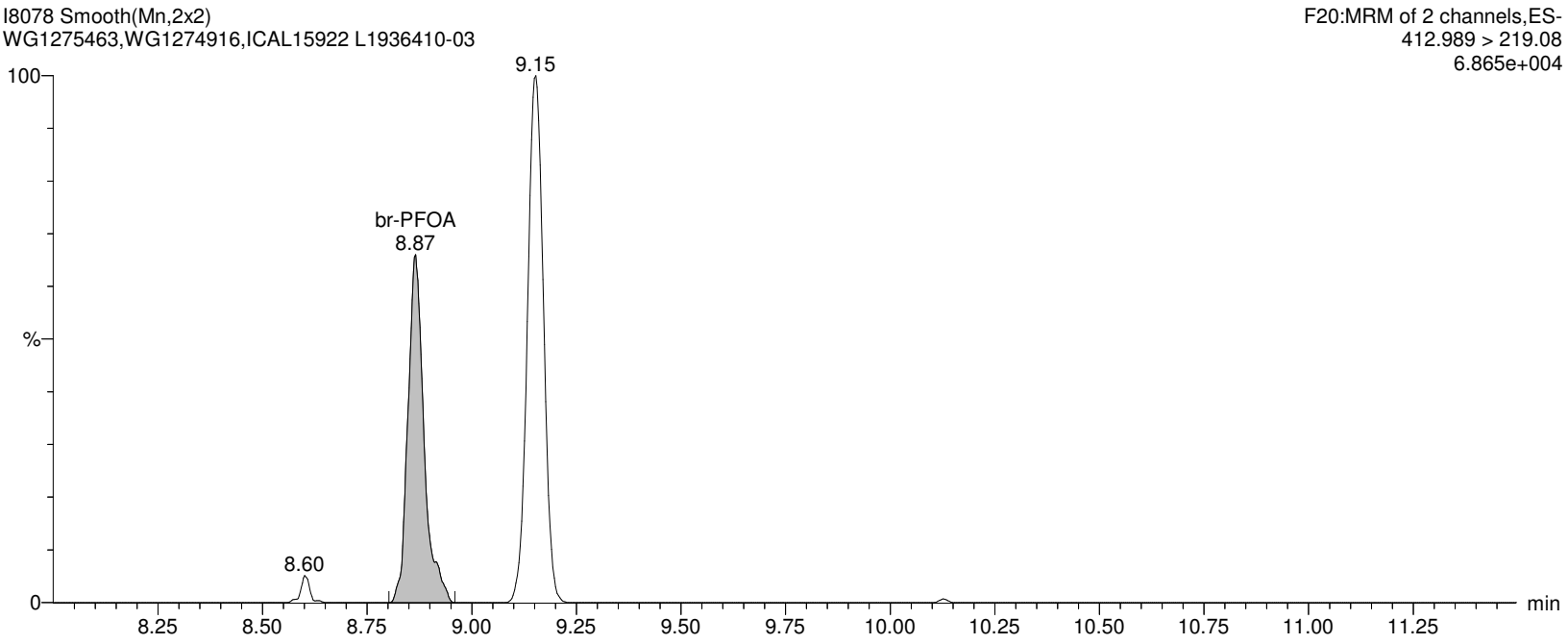
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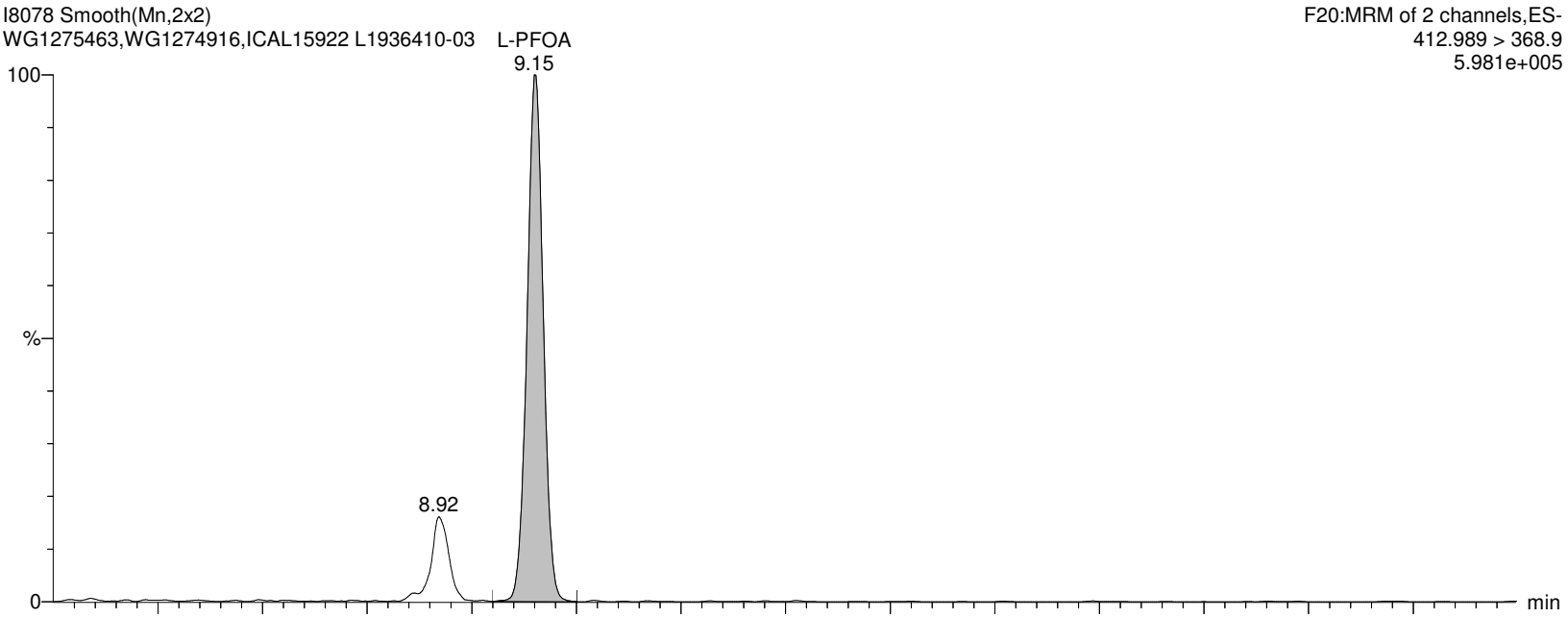


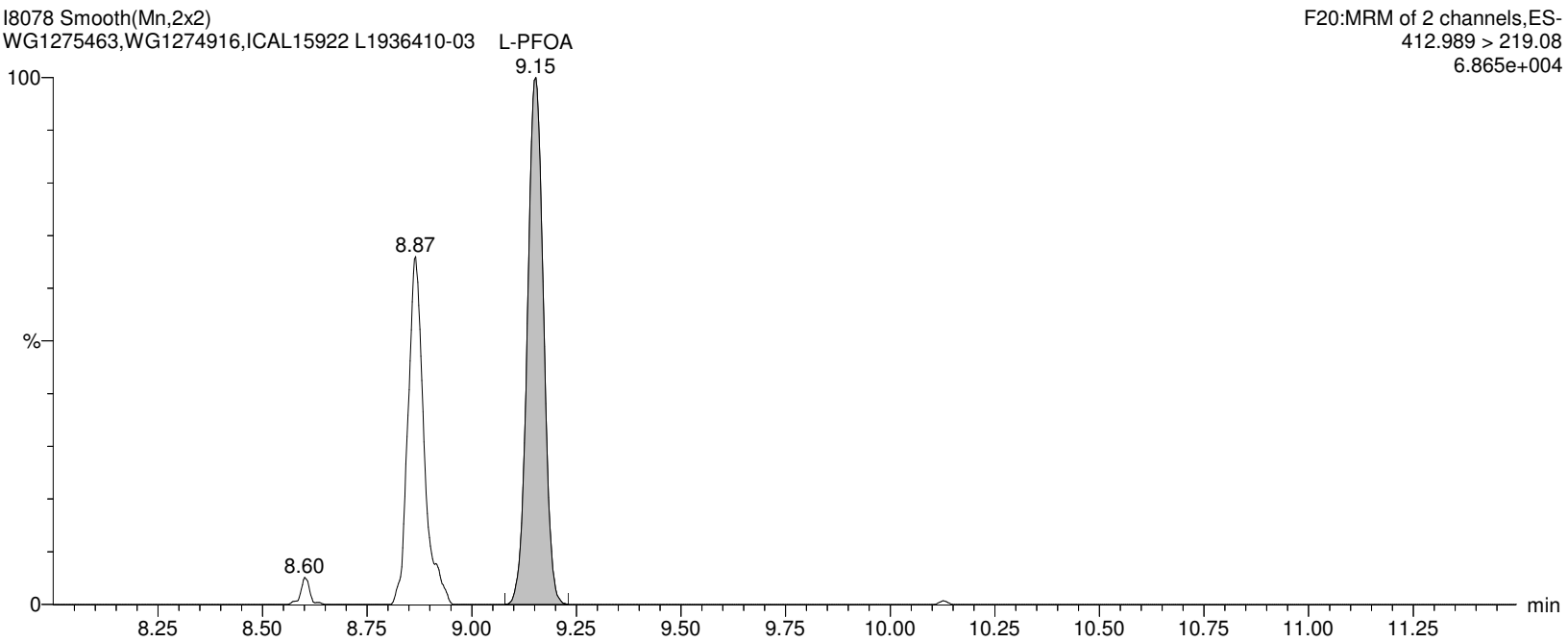
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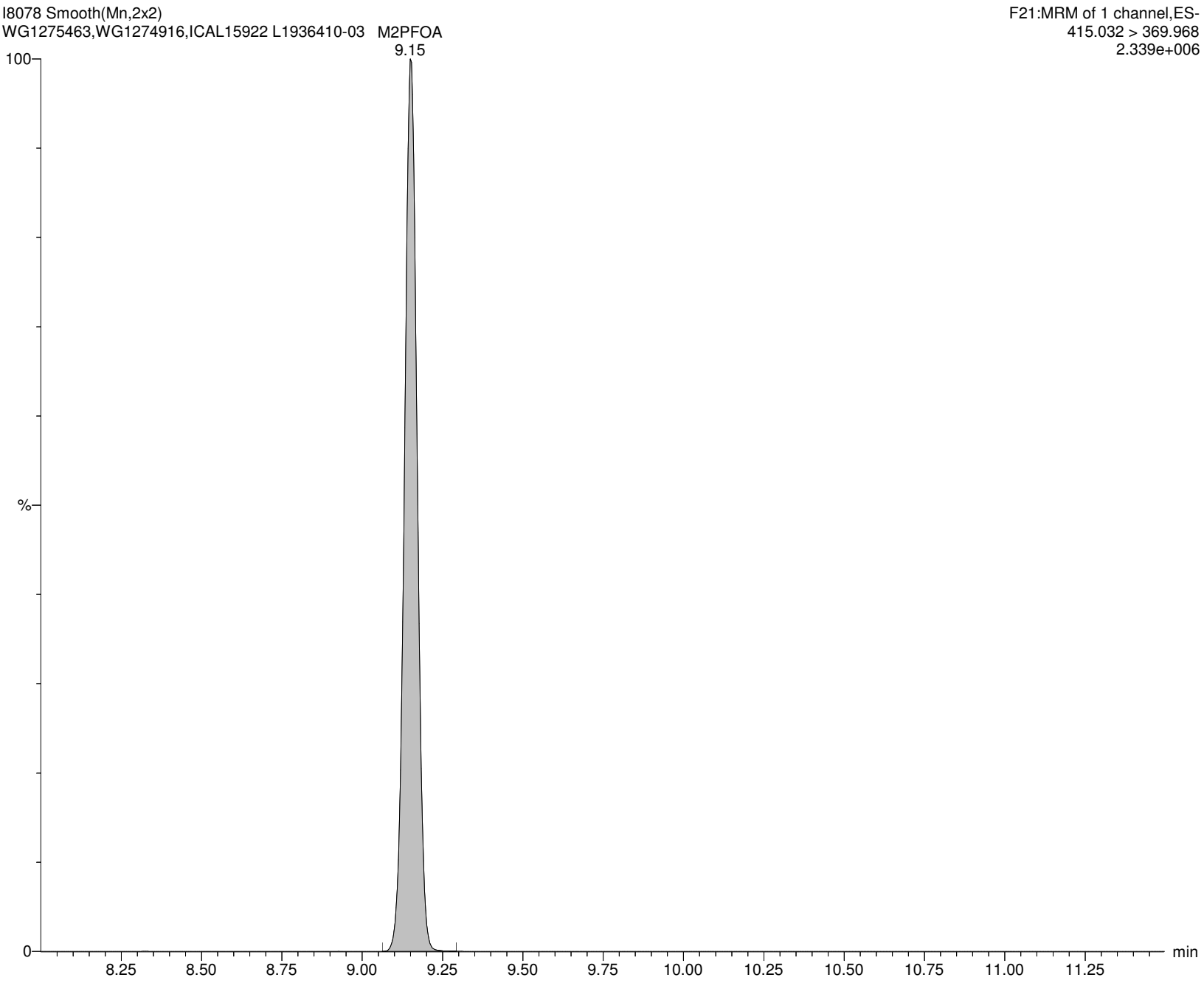


all concentration units in (ng/mL)

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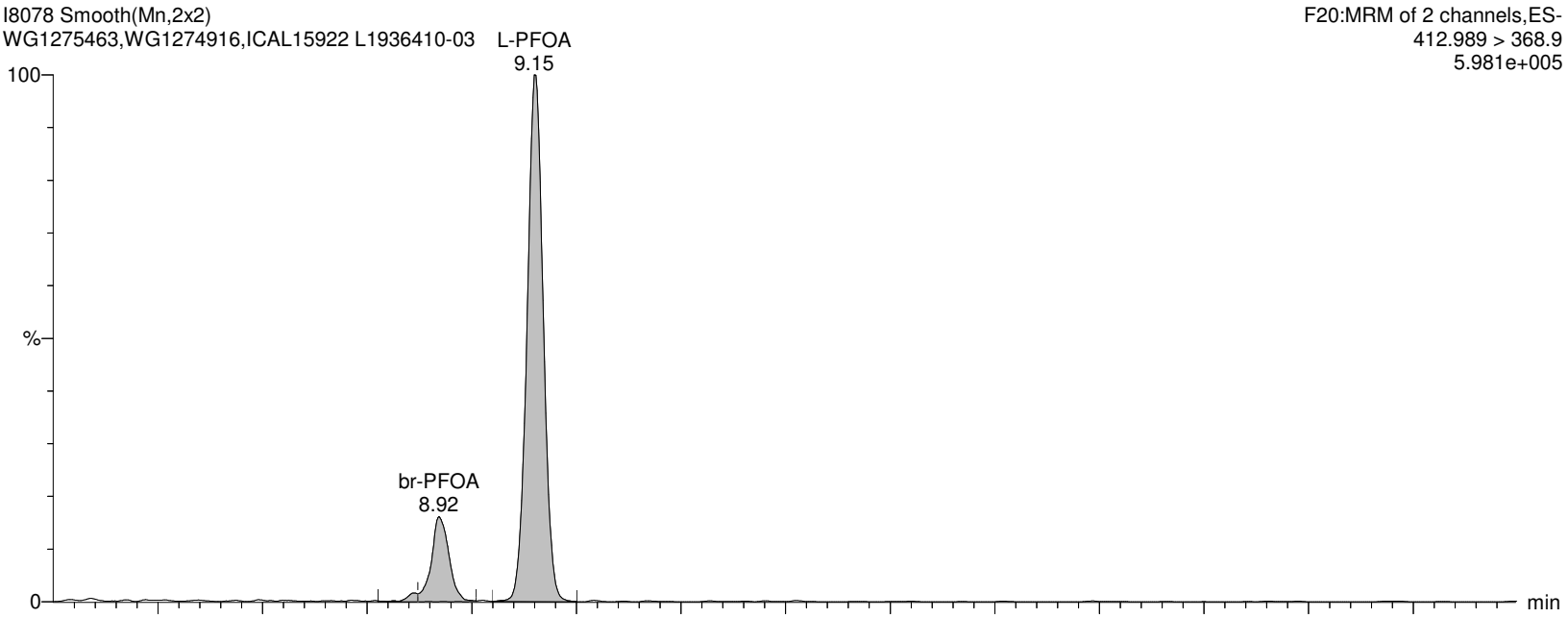


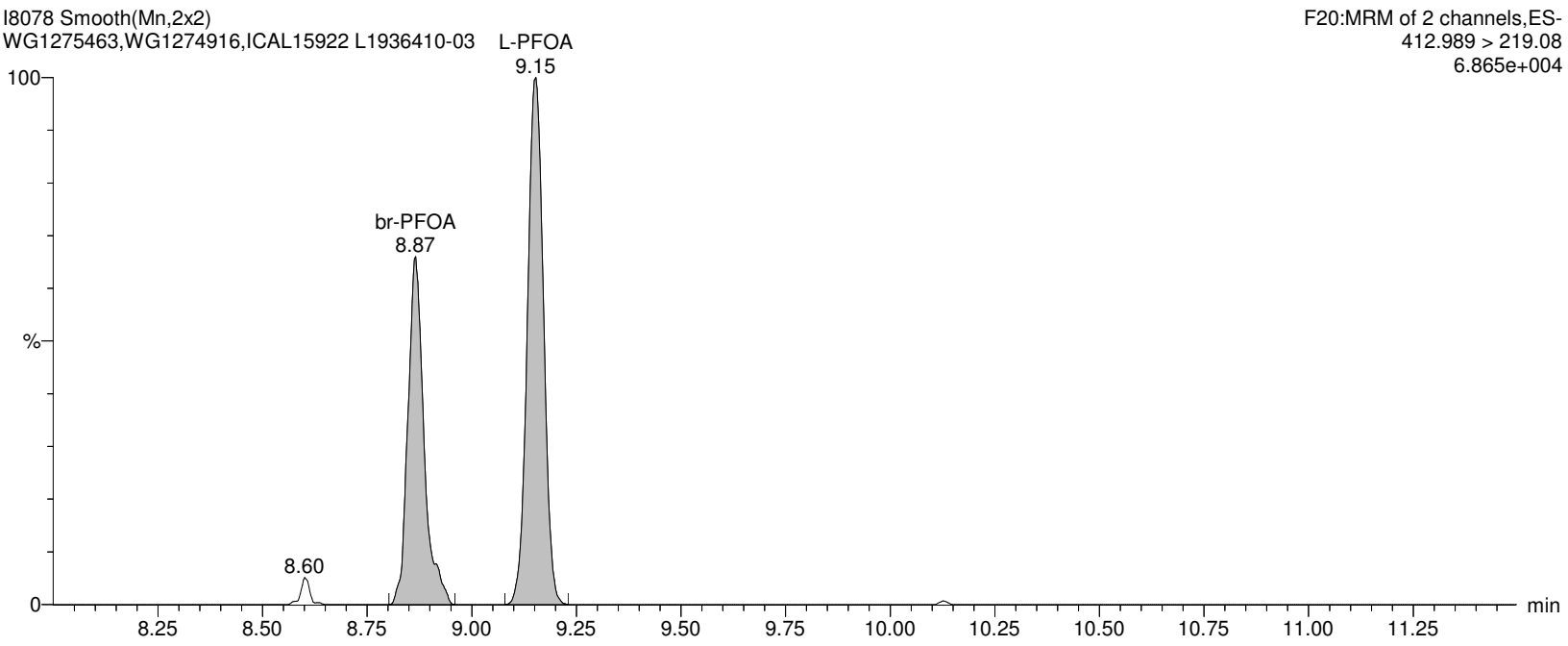
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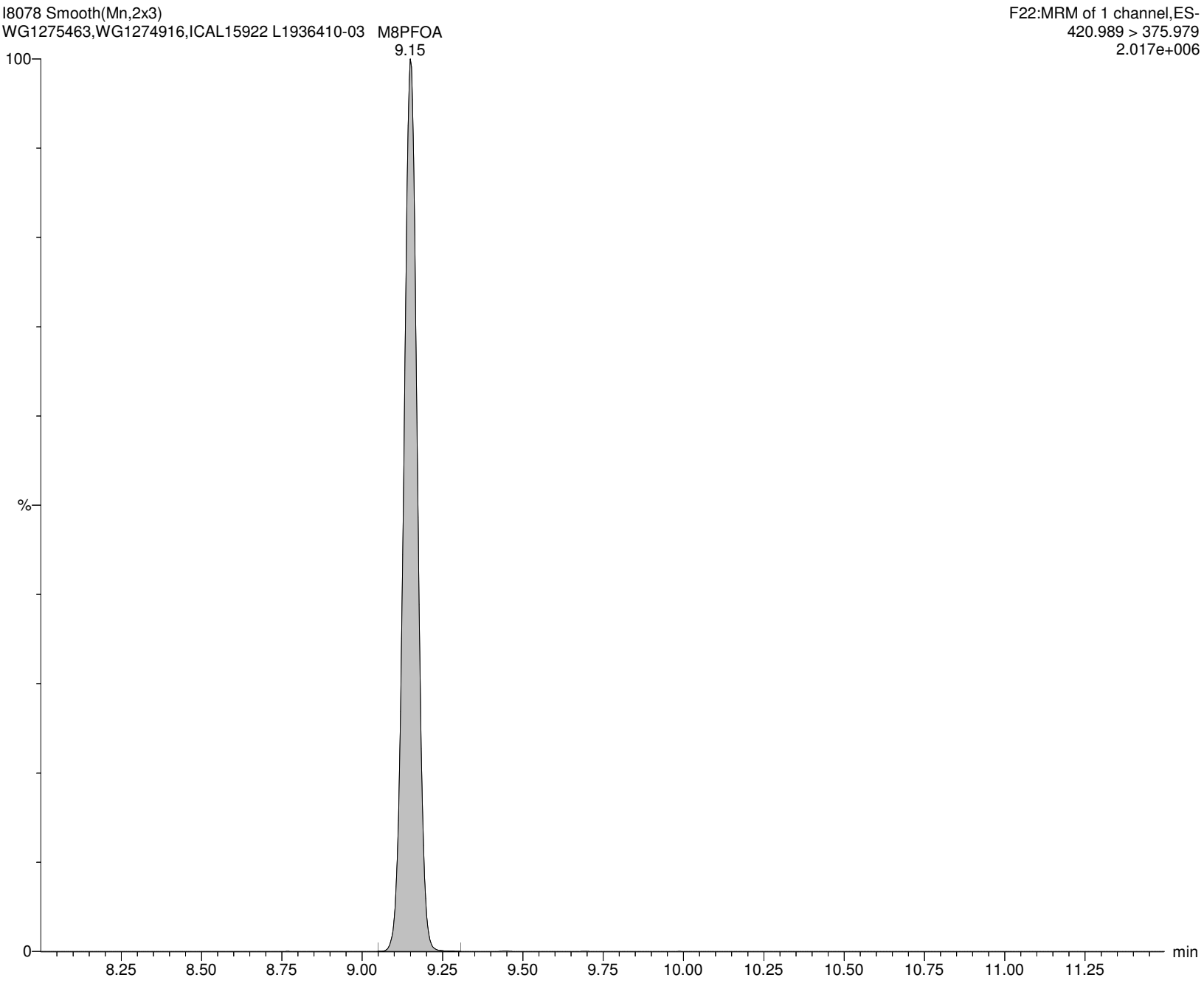


all concentration units in (ng/mL)

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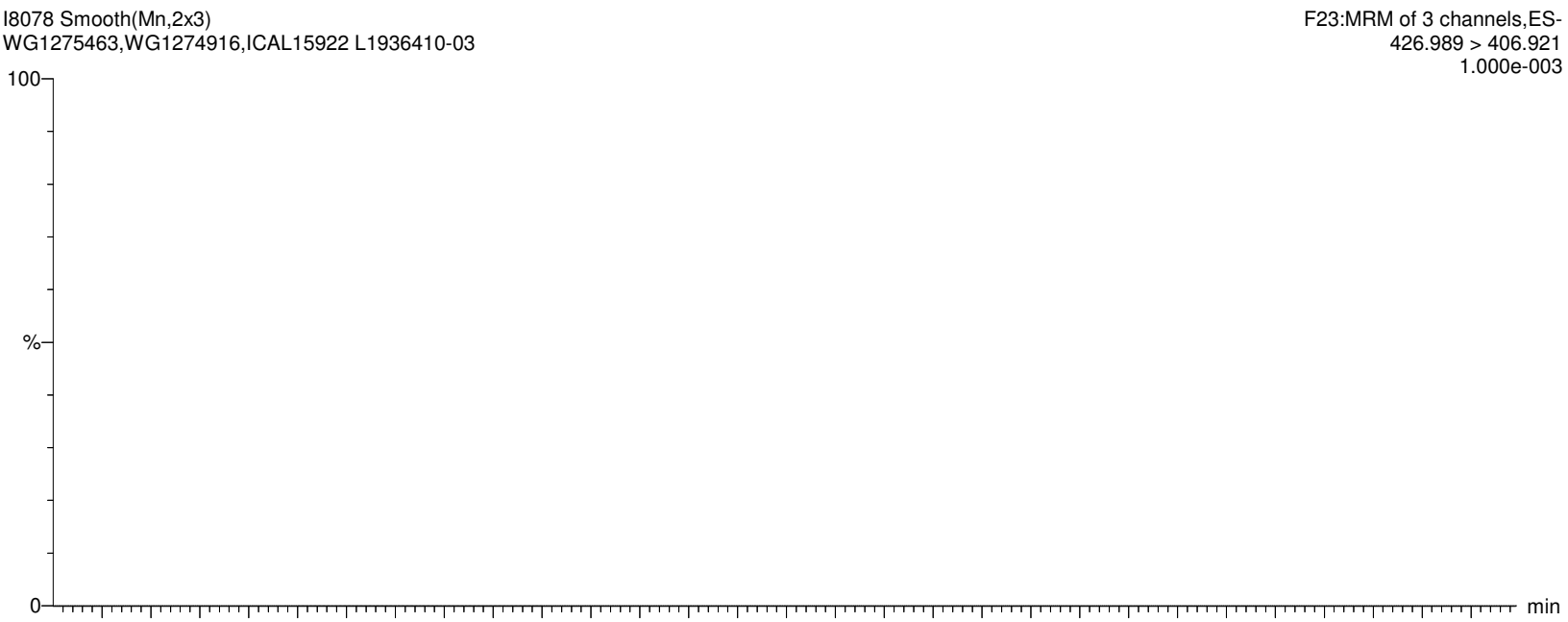


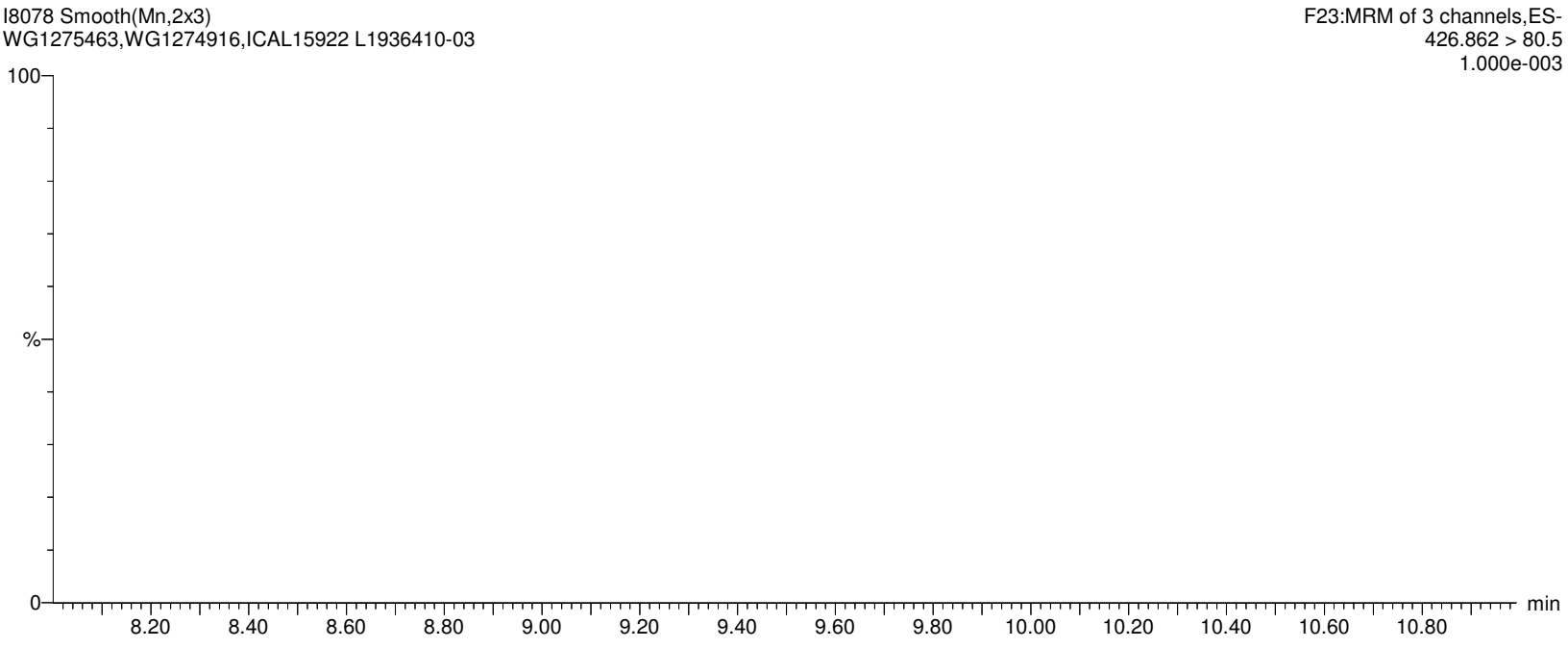
all concentration units in (ng/mL)

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6:2FTS



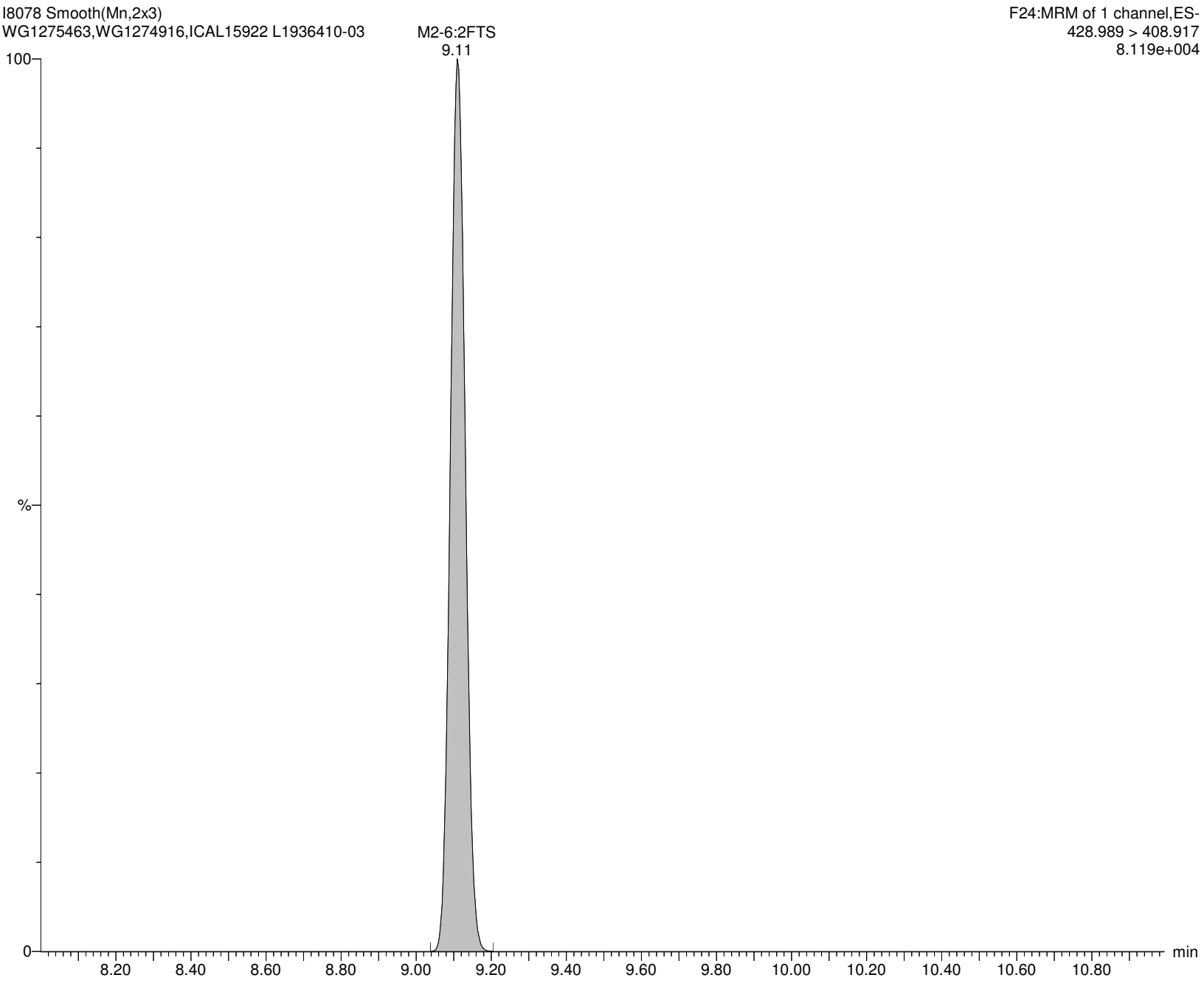


all concentration units in (ng/mL)

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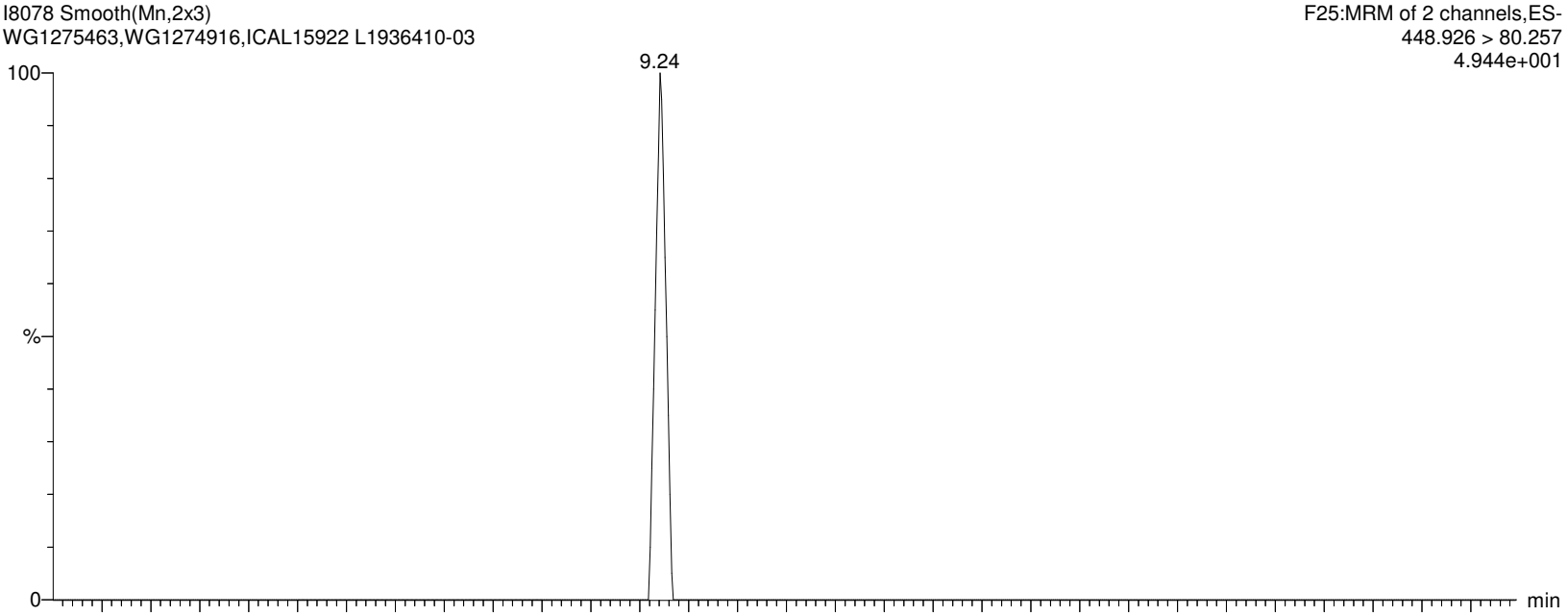


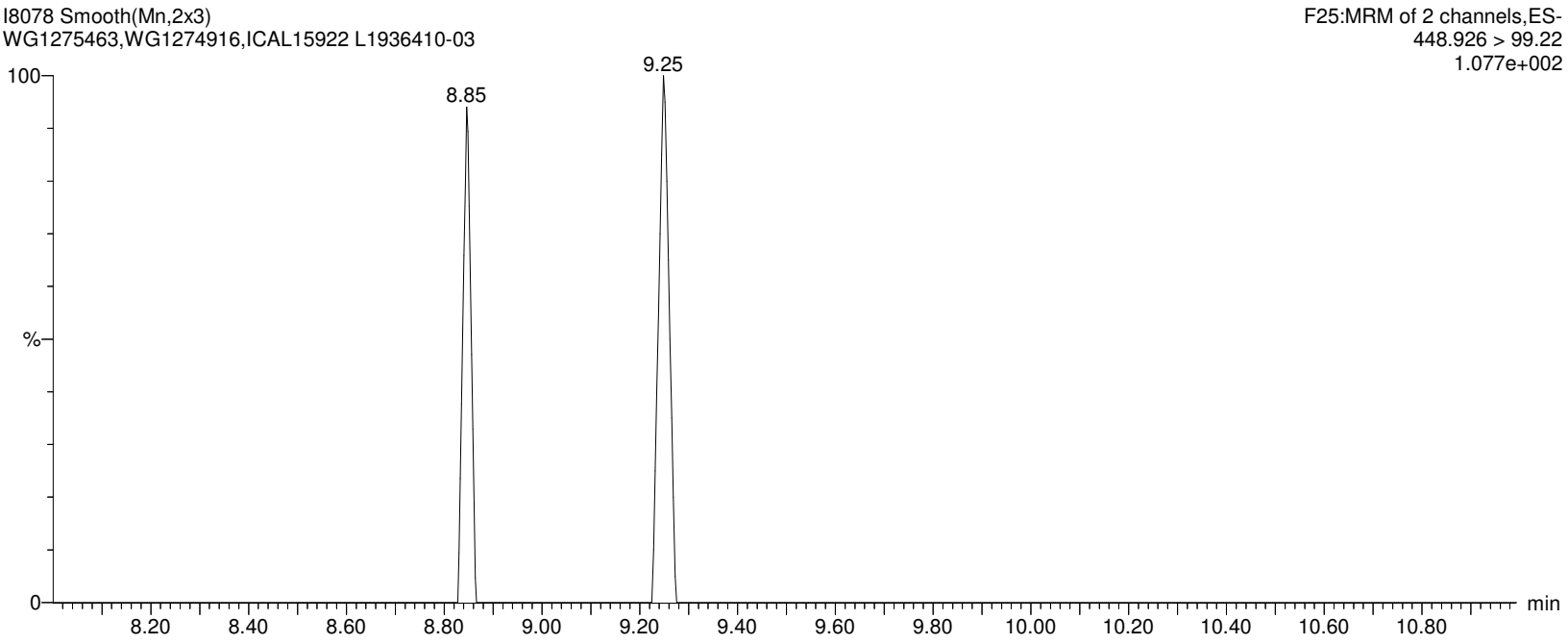
all concentration units in (ng/mL)

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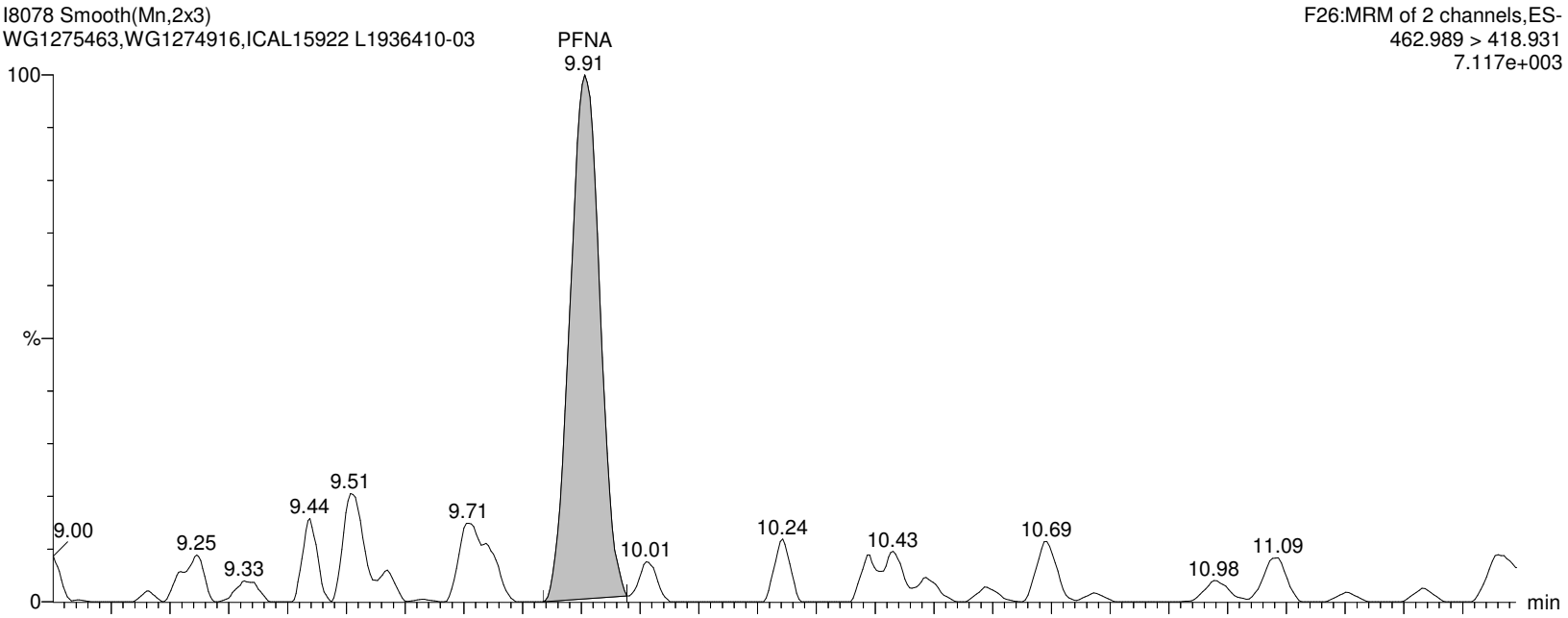


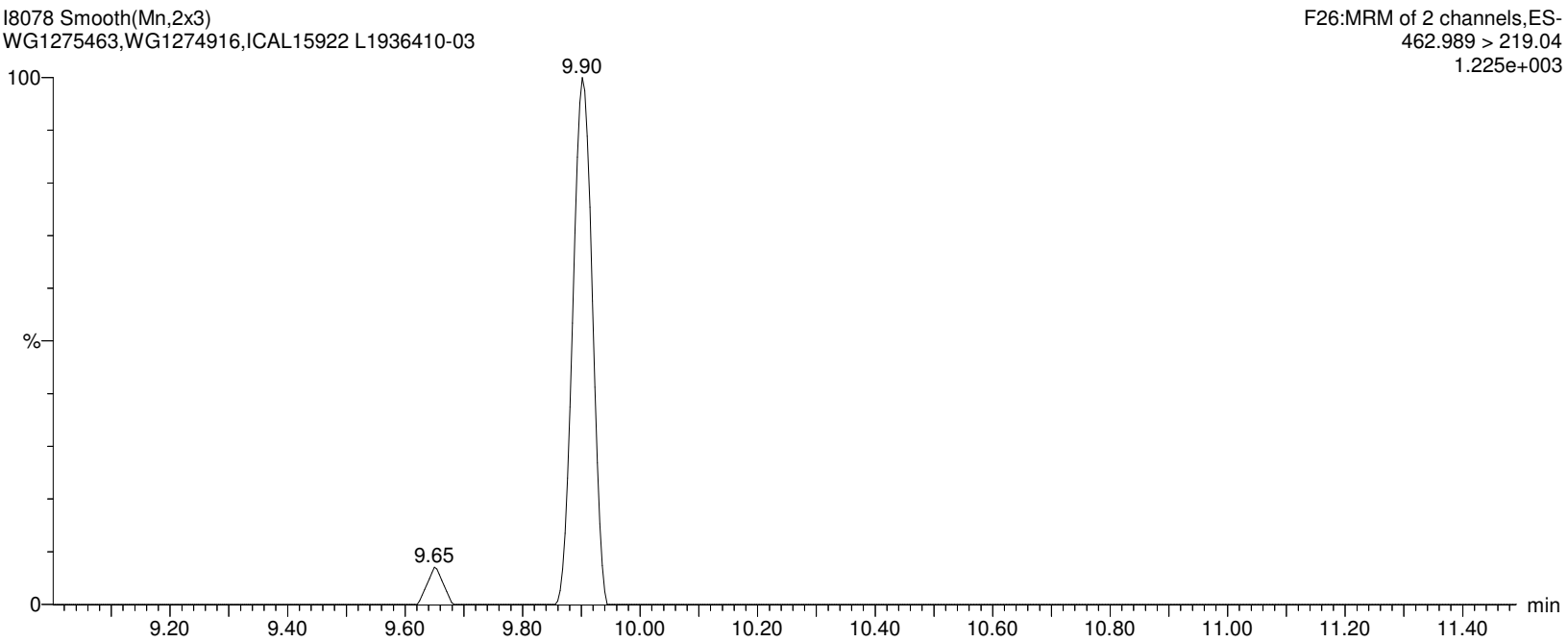
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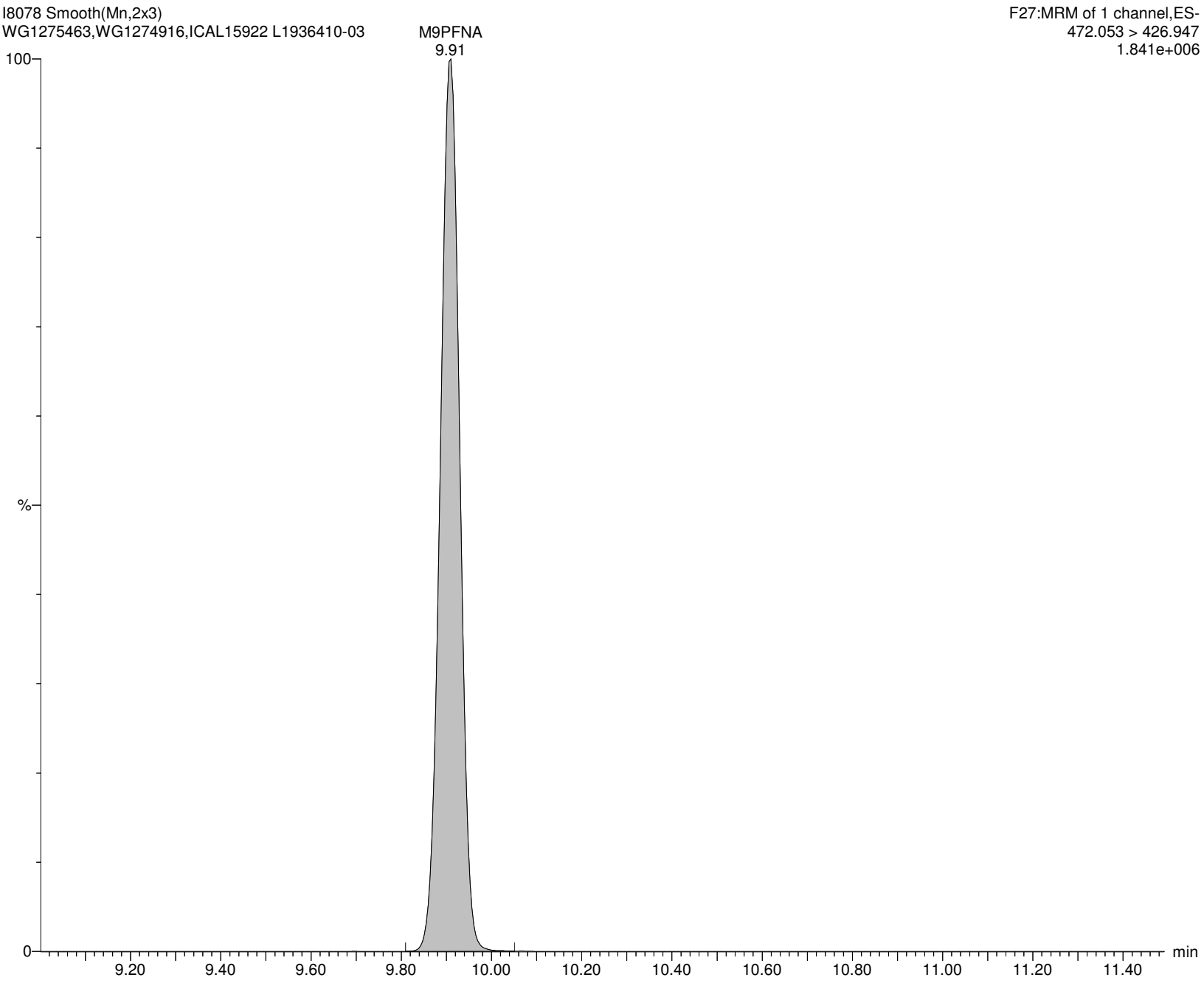


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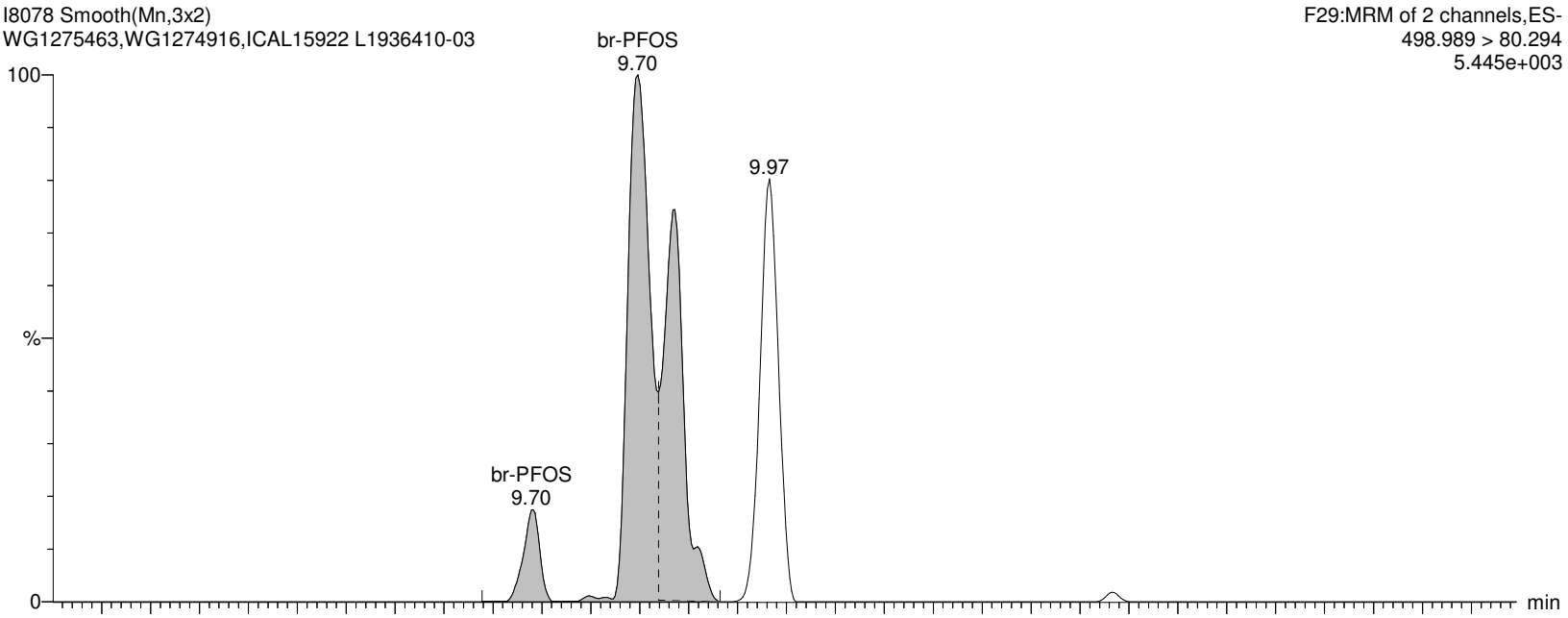


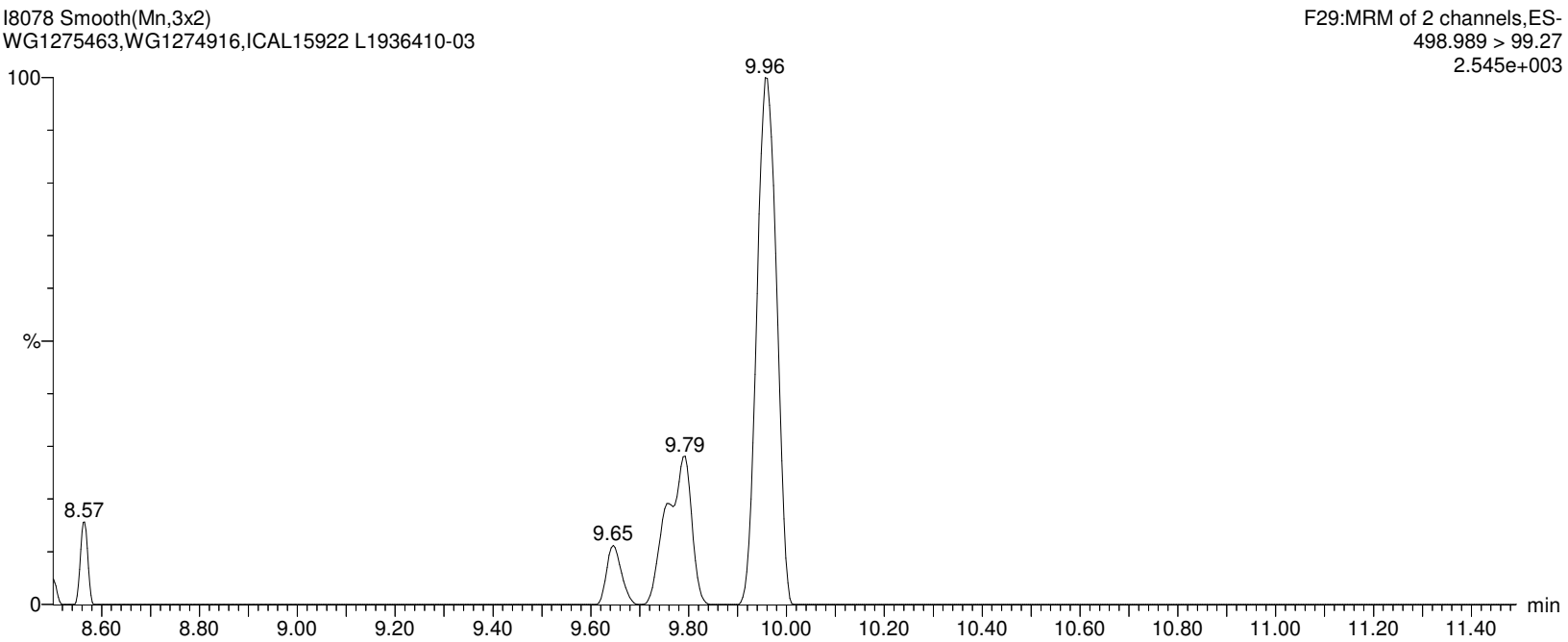
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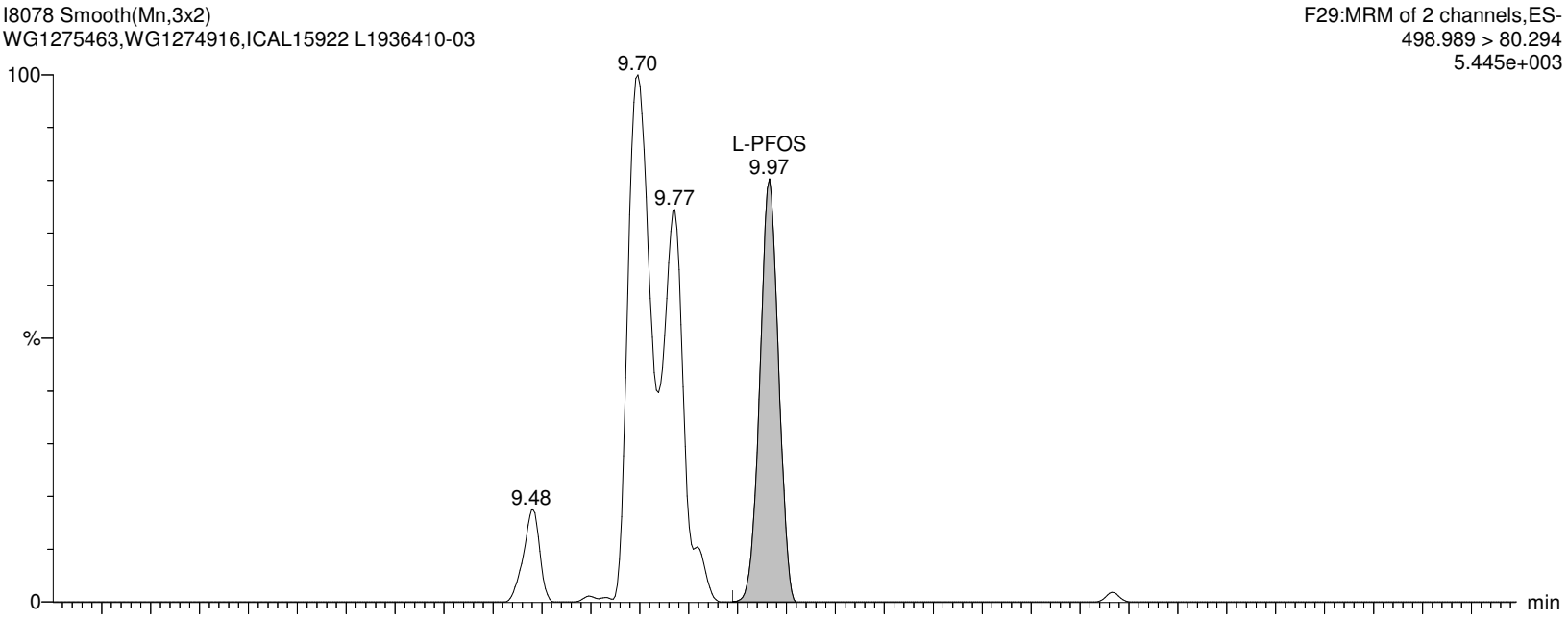


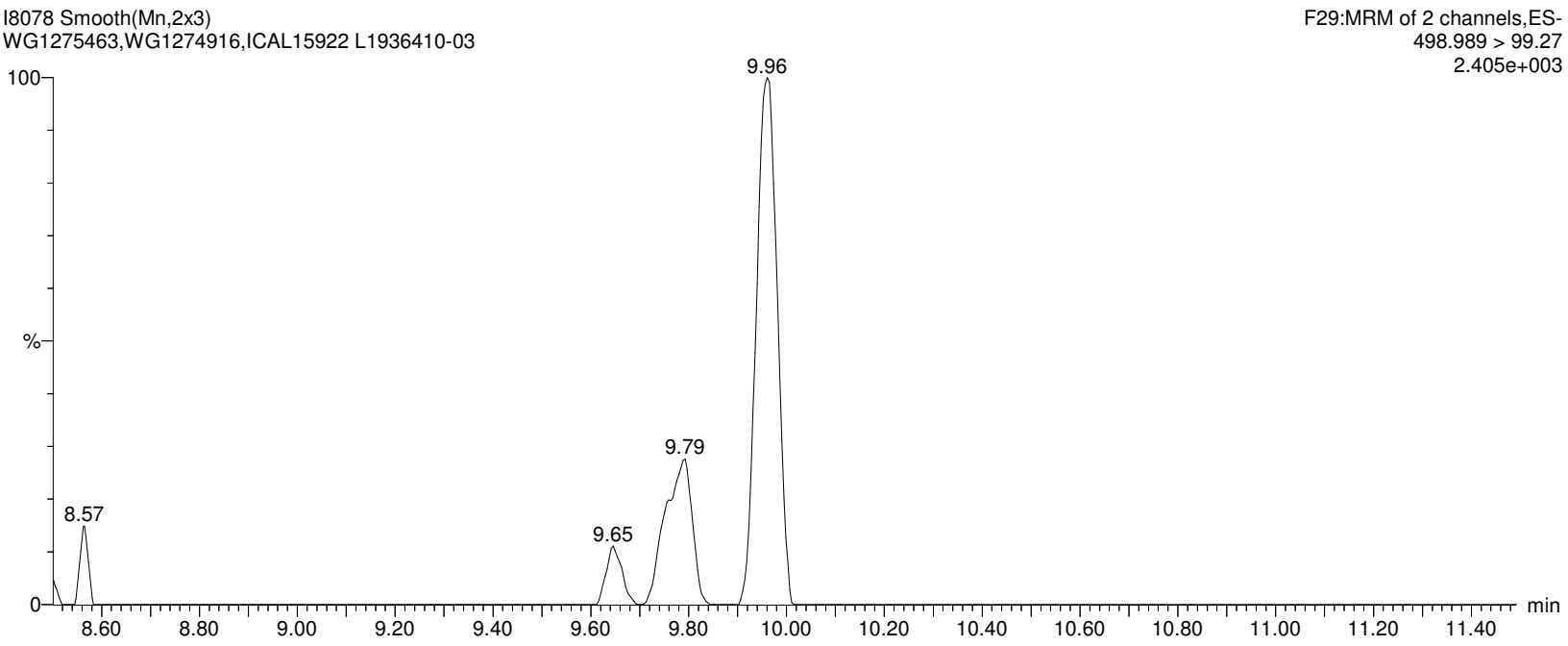
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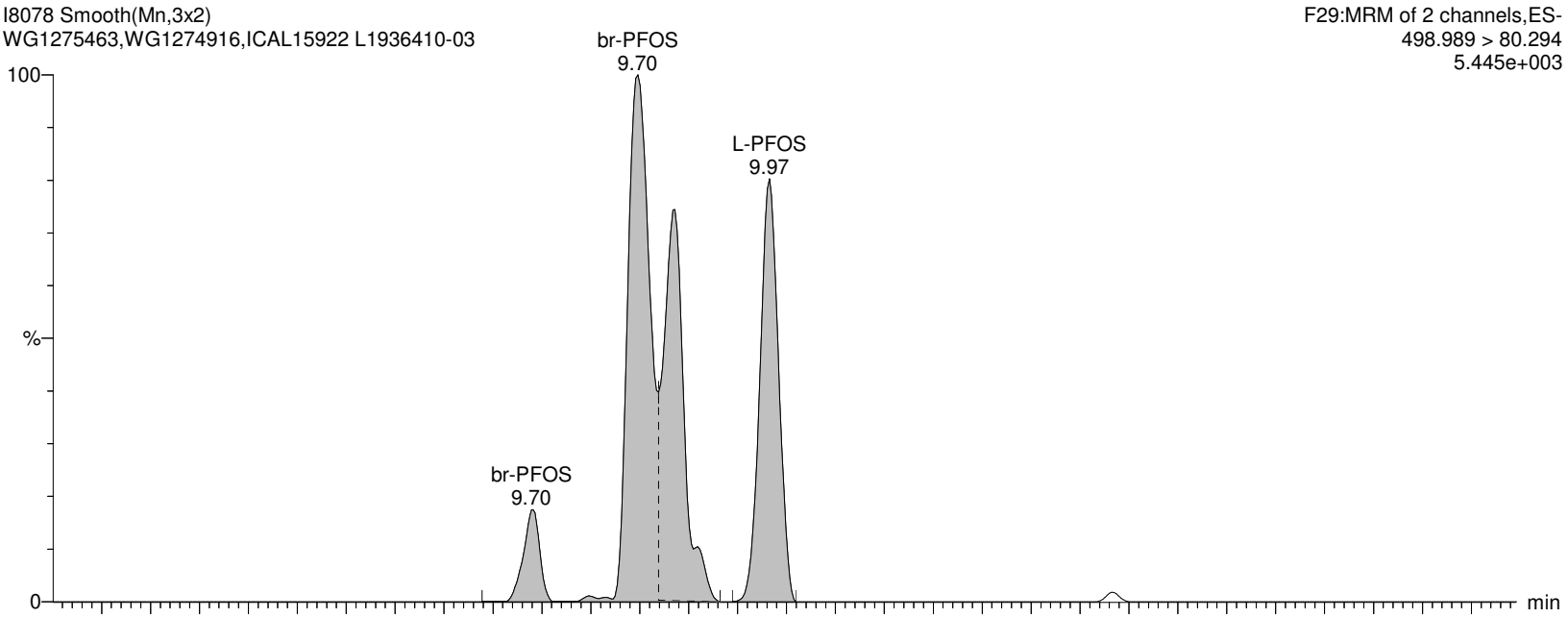


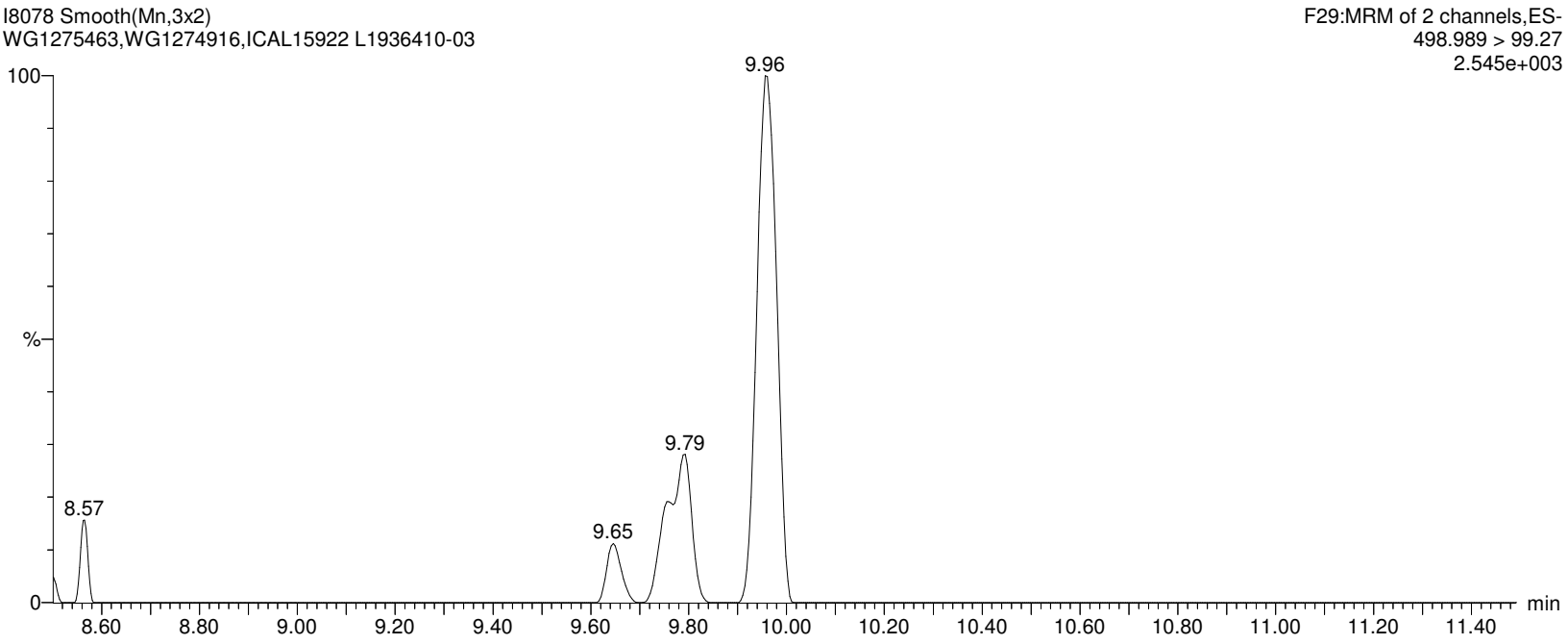
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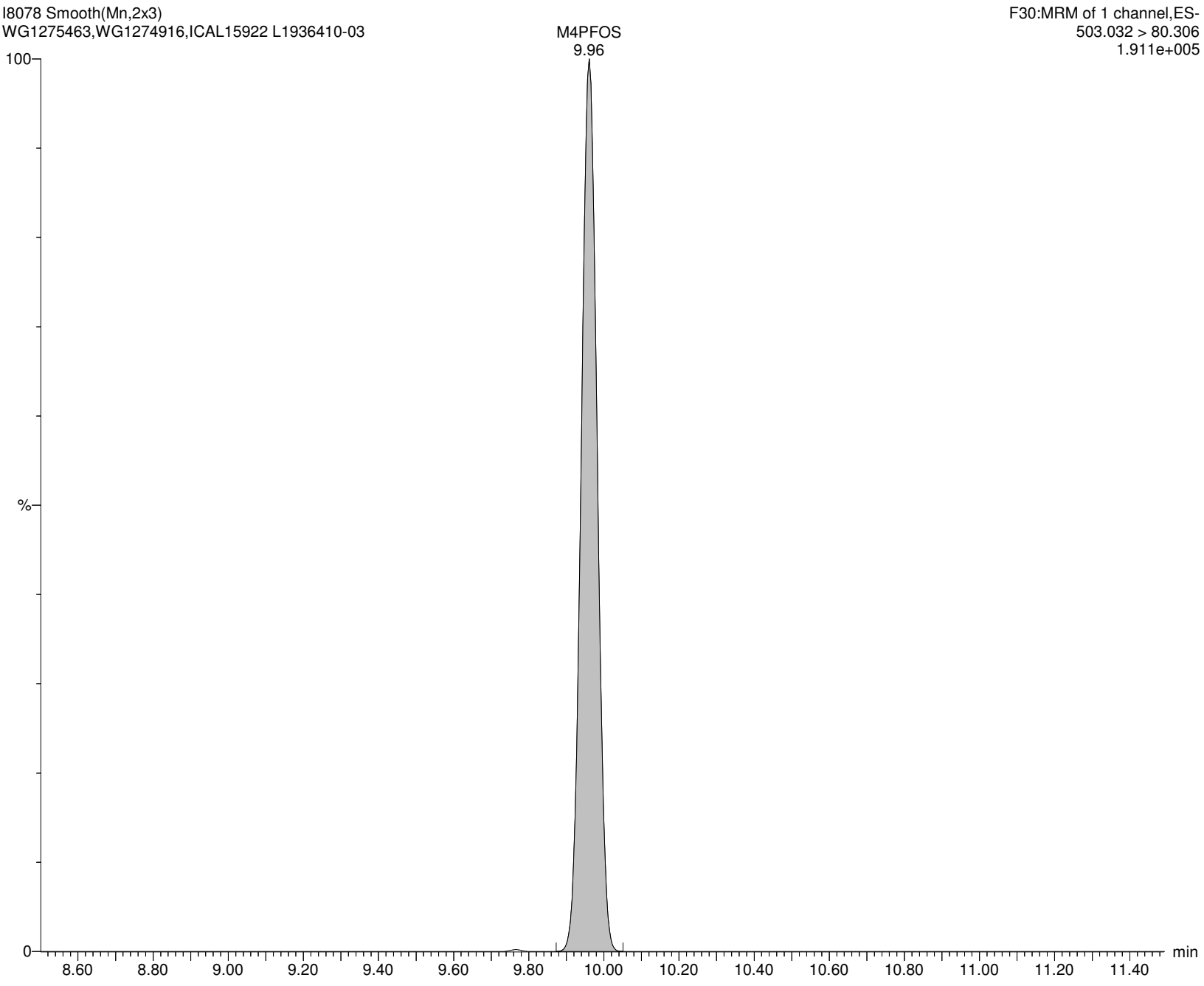


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User: LCMS02:JW
Vial: 1:C,8
Instrument: XEVO-TQSmicro#QEB0050
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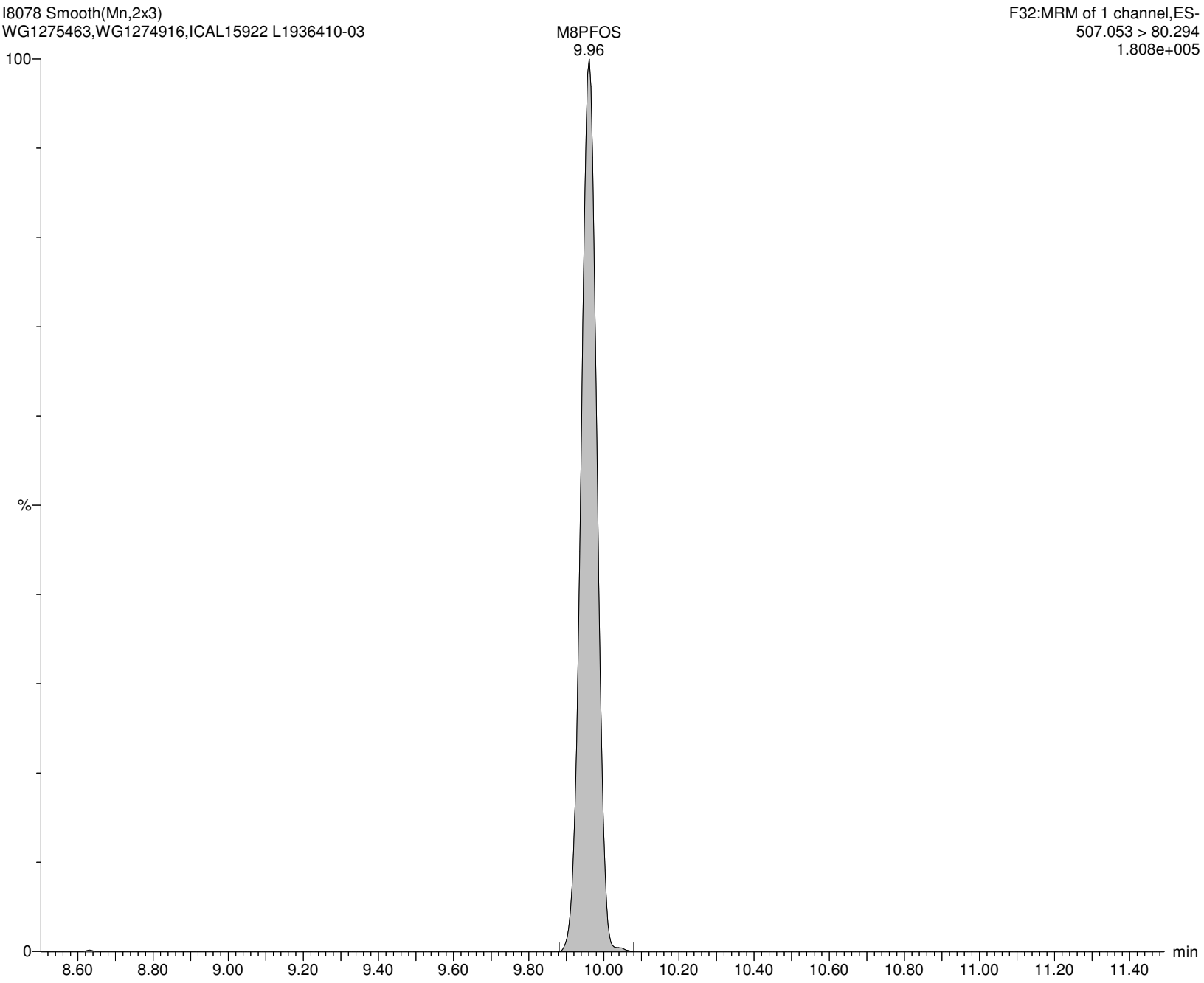


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\wg1275463b.qld
Last Altered: Friday, August 23, 2019 09:51:17 Eastern Daylight Time
Printed: Friday, August 23, 2019 09:51:32 Eastern Daylight Time

Name: I8078
ID: L1936410-03
Date: 22-Aug-2019
Time: 15:14:45
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Vial: 1:C,8
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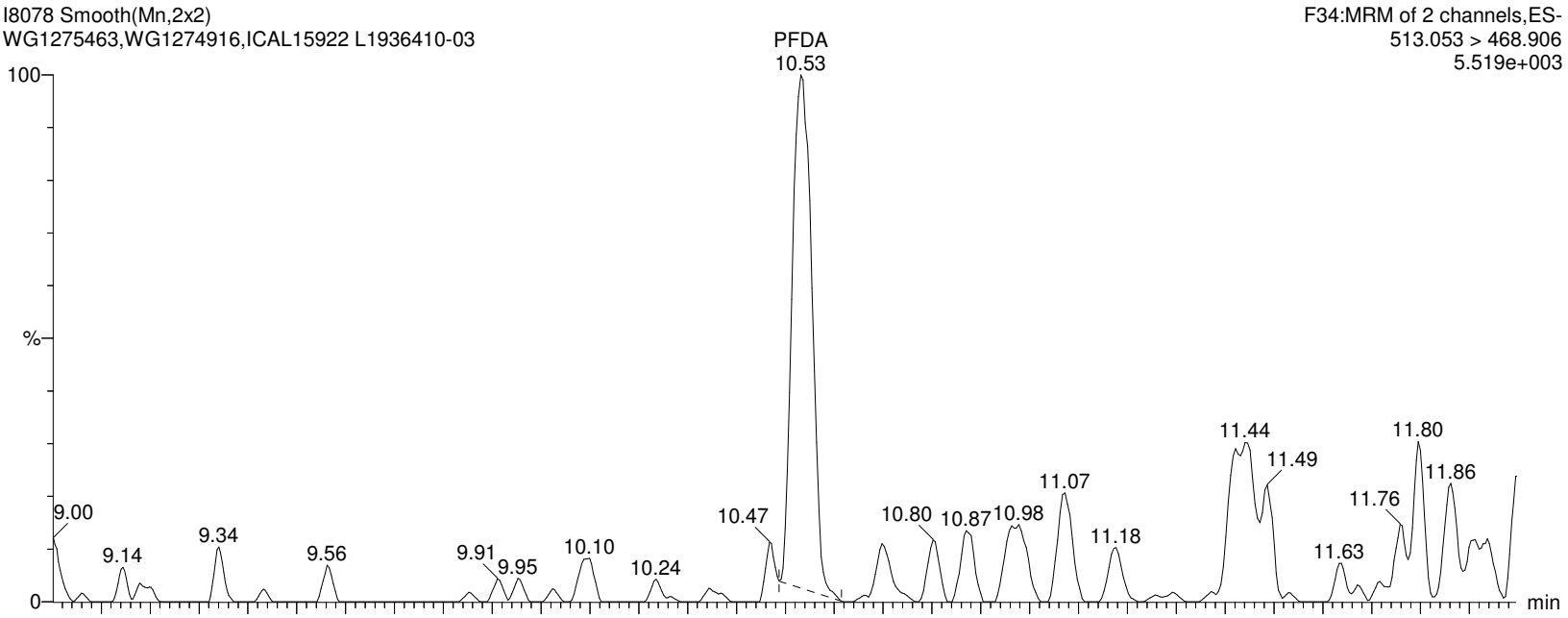


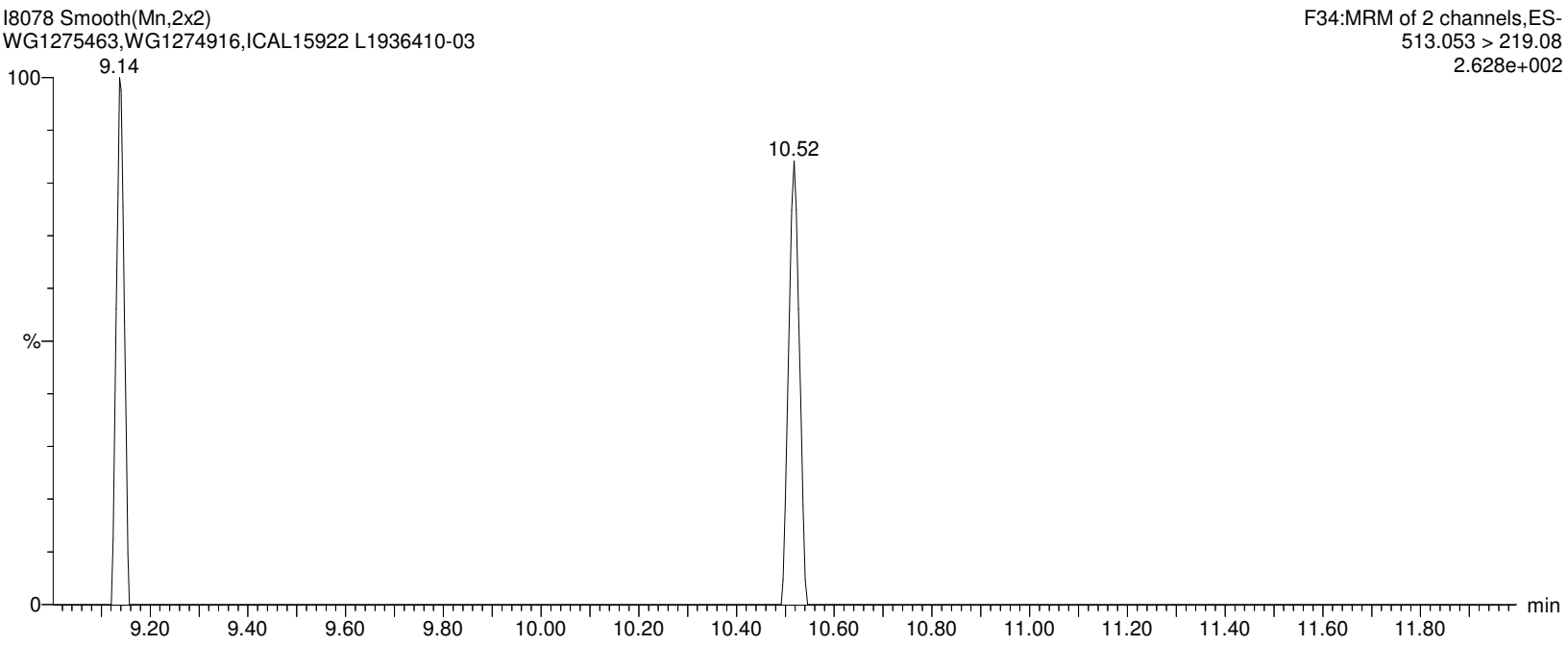
all concentration units in (ng/mL)

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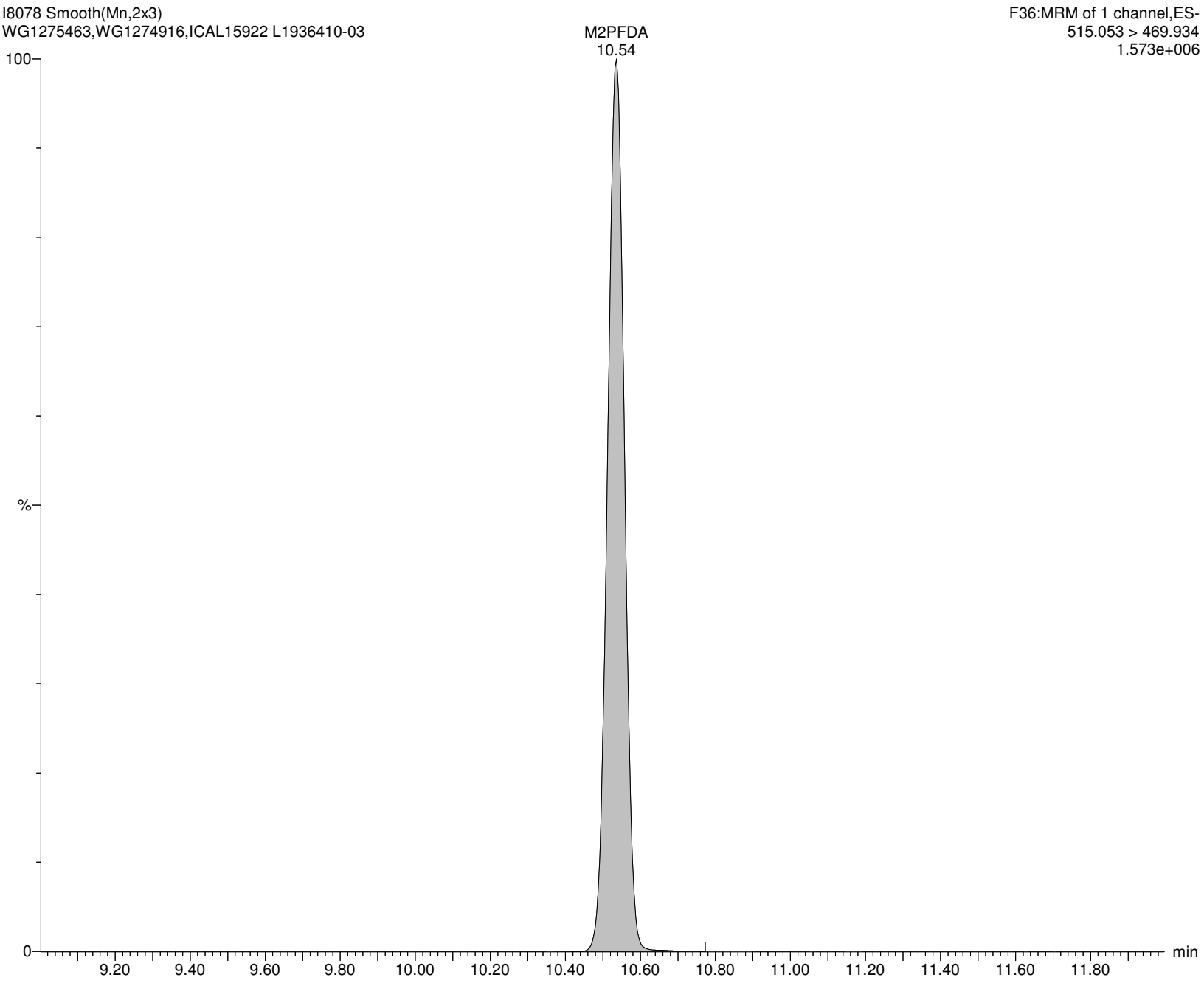


all concentration units in (ng/mL)

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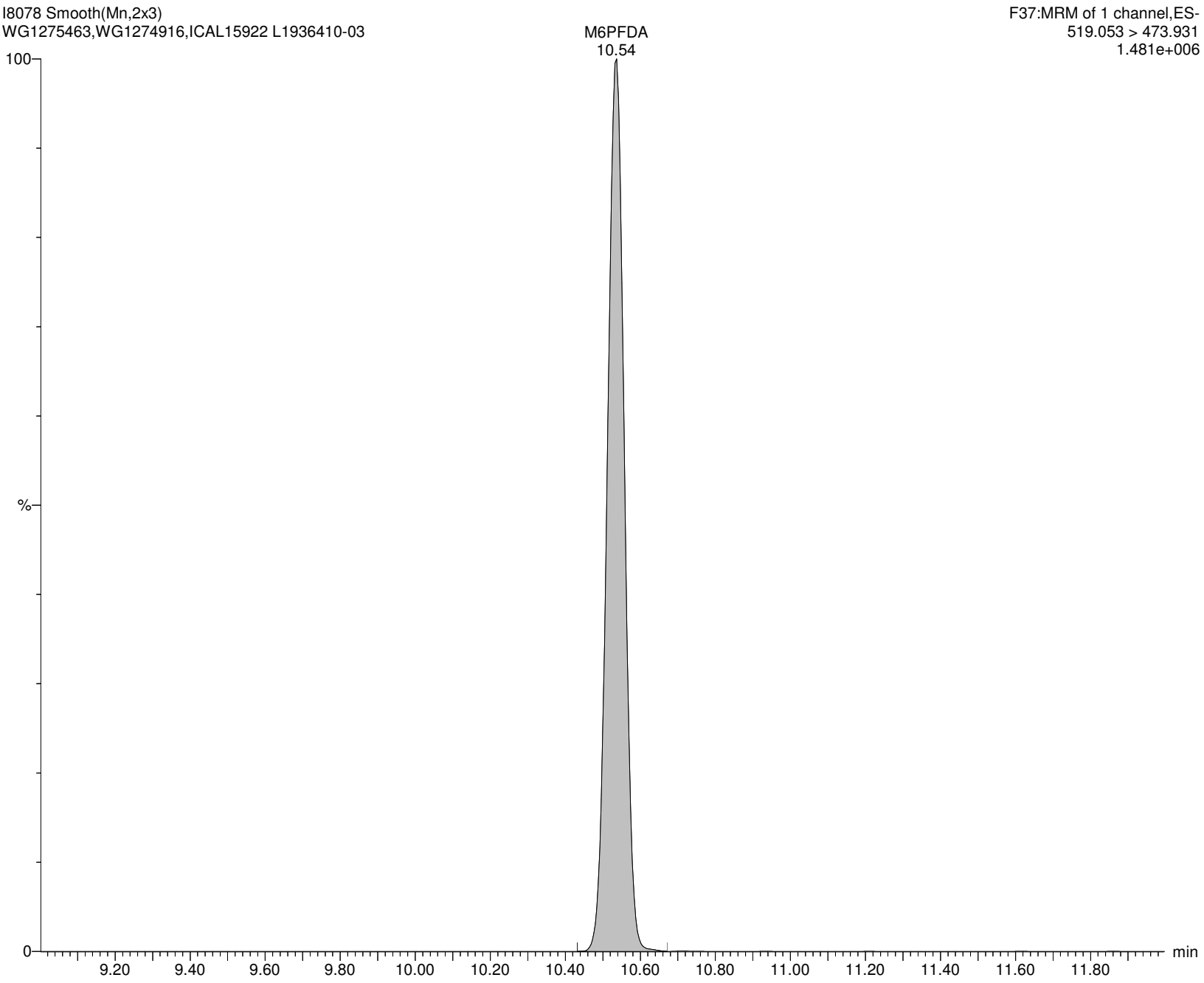


all concentration units in (ng/mL)

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M6PFDA



all concentration units in (ng/mL)

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-

8:2FTS

I8078 Smooth(Mn,2x2)
WG1275463,WG1274916,ICAL15922 L1936410-03

F39:MRM of 2 channels,ES-
526.926 > 506.818
1.000e-003

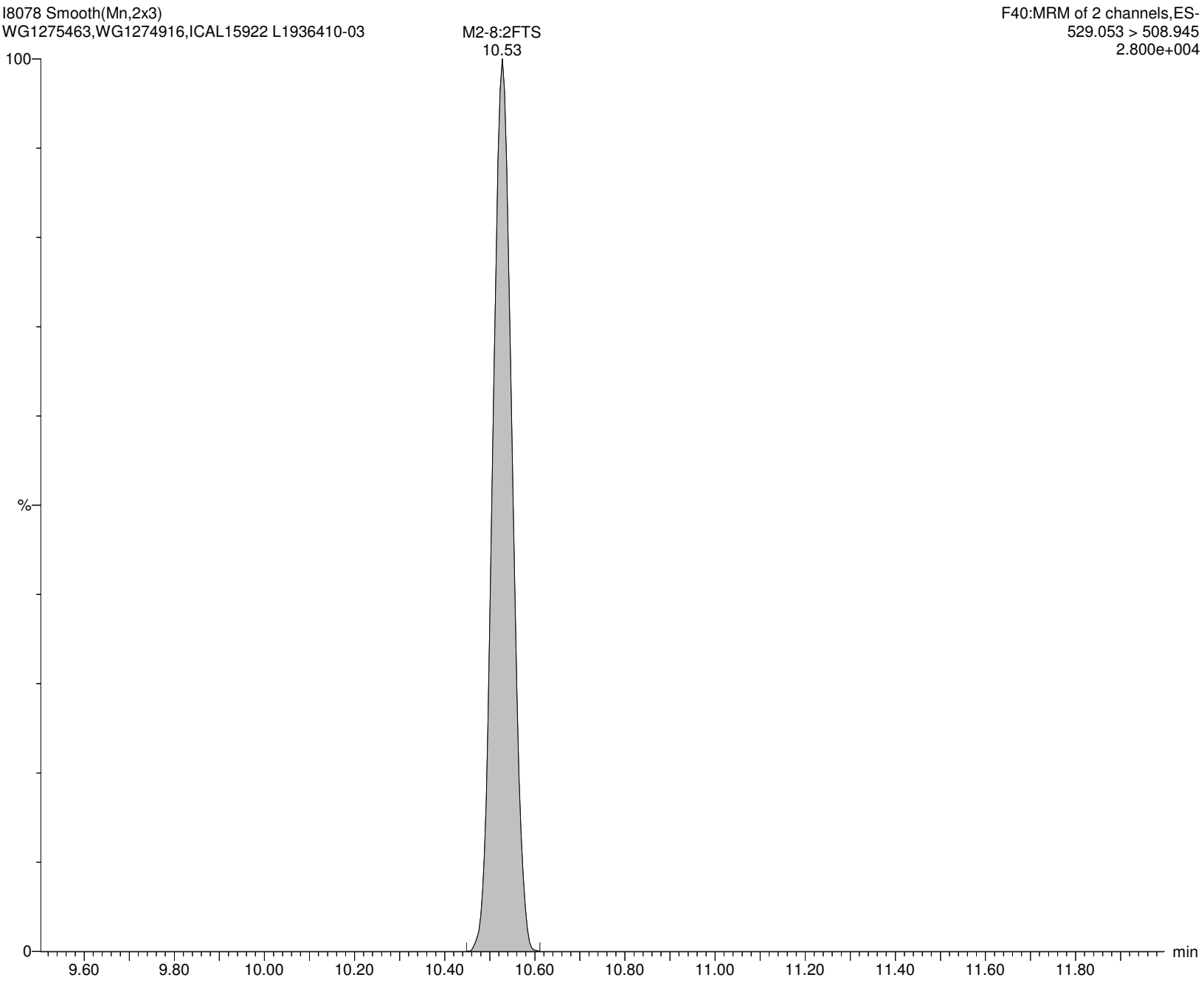


all concentration units in (ng/mL)

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M2-8:2FTS

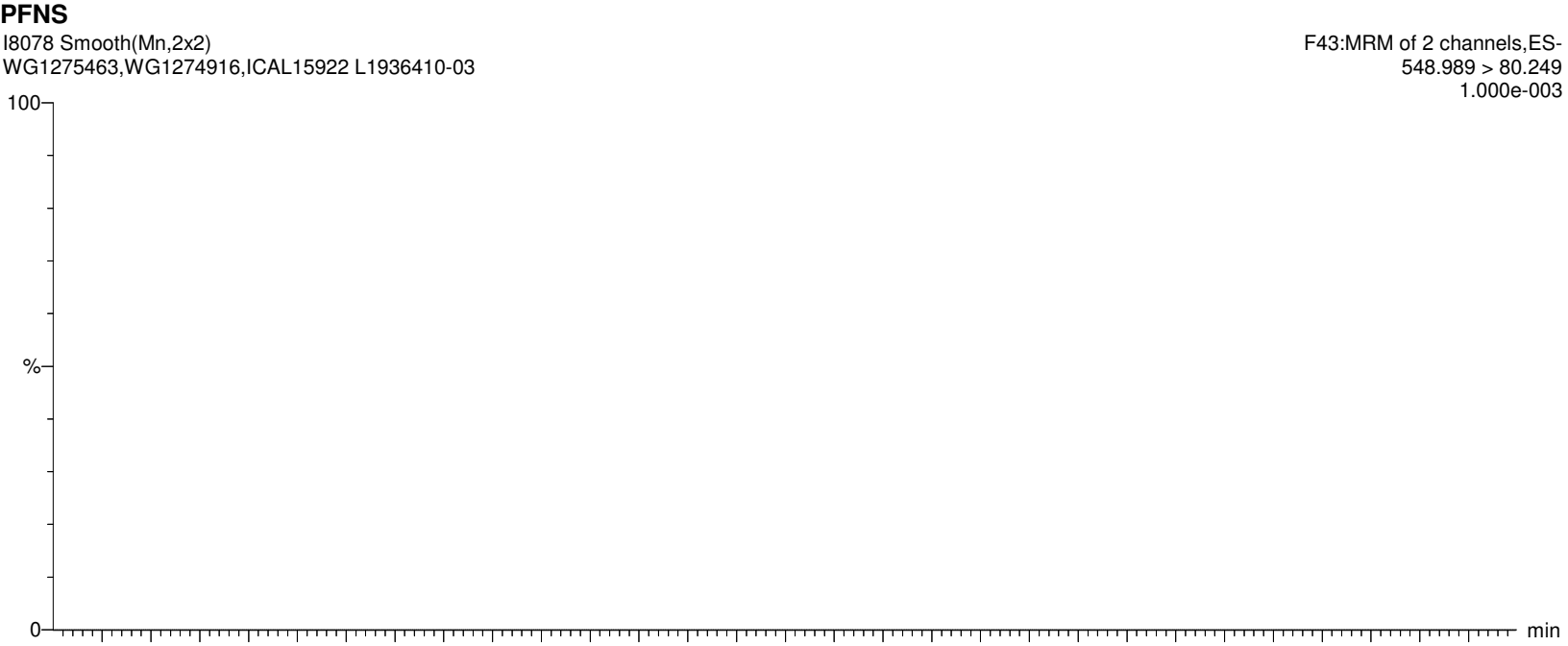


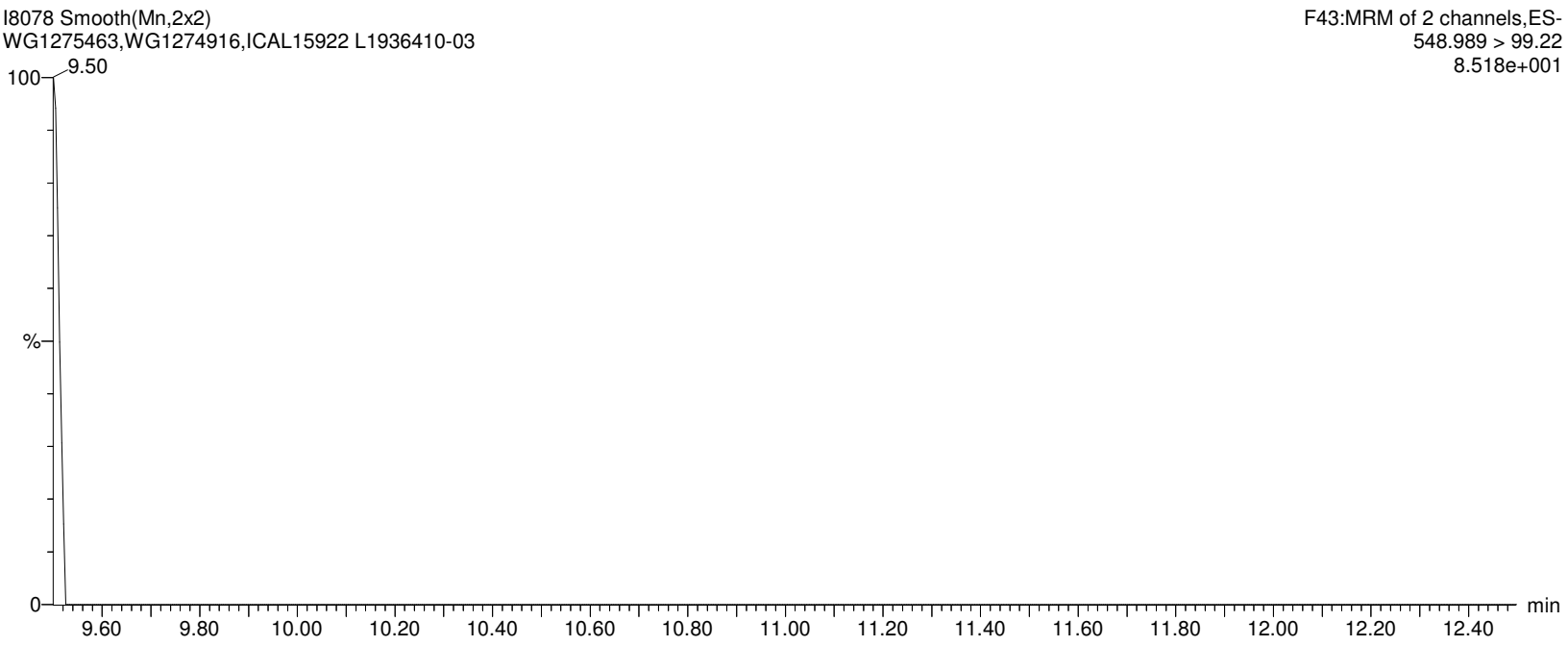
all concentration units in (ng/mL)

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PFNS



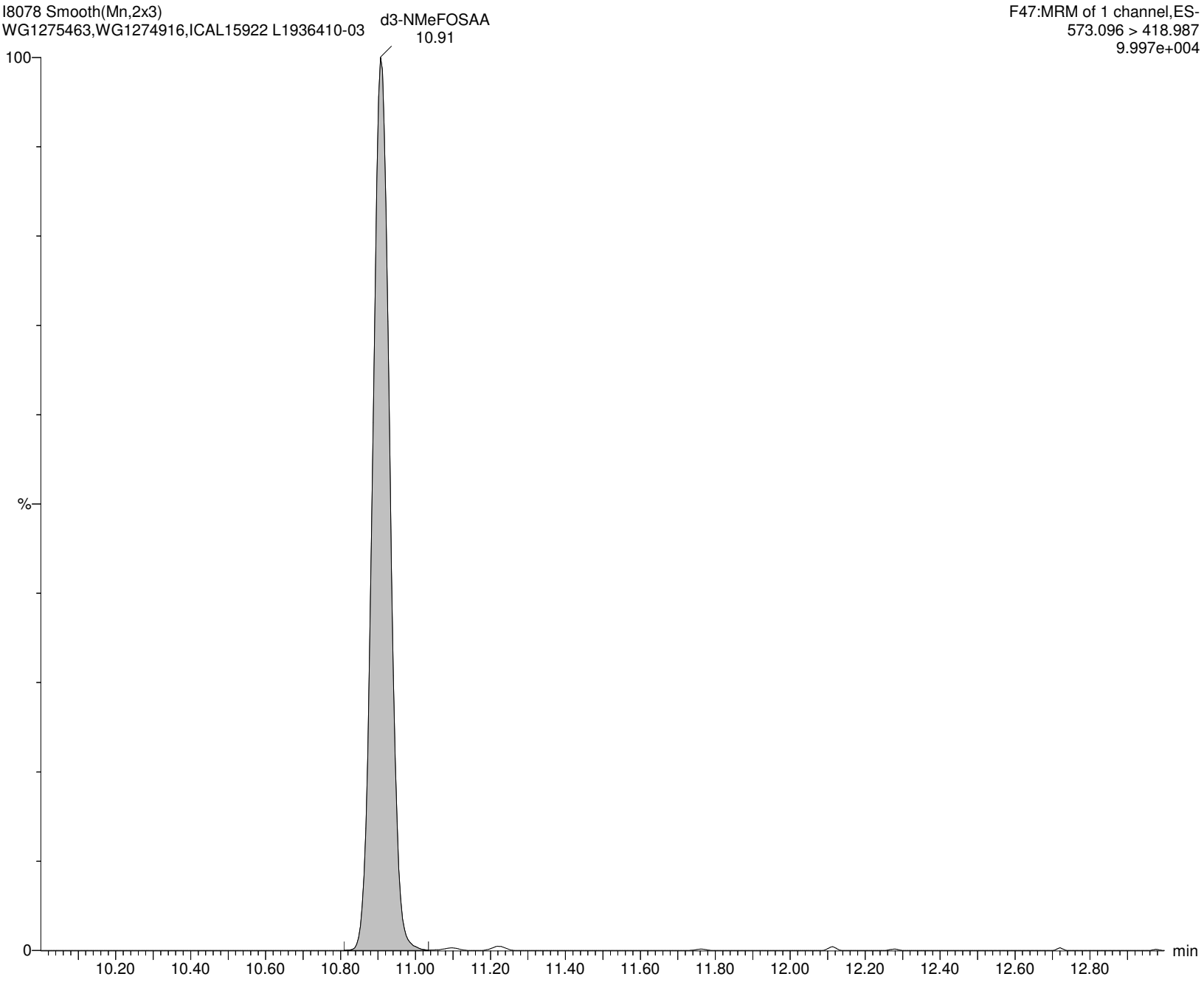


all concentration units in (ng/mL)

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d3-NMeFOSAA

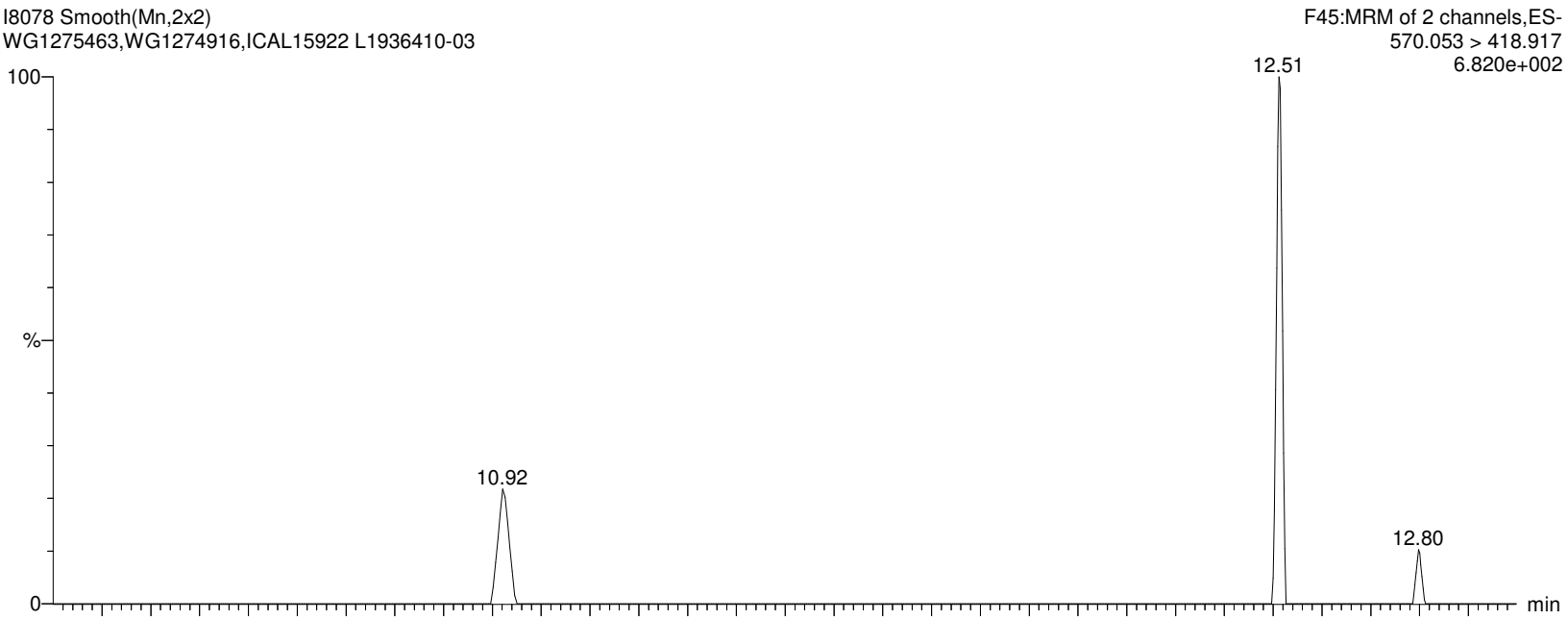


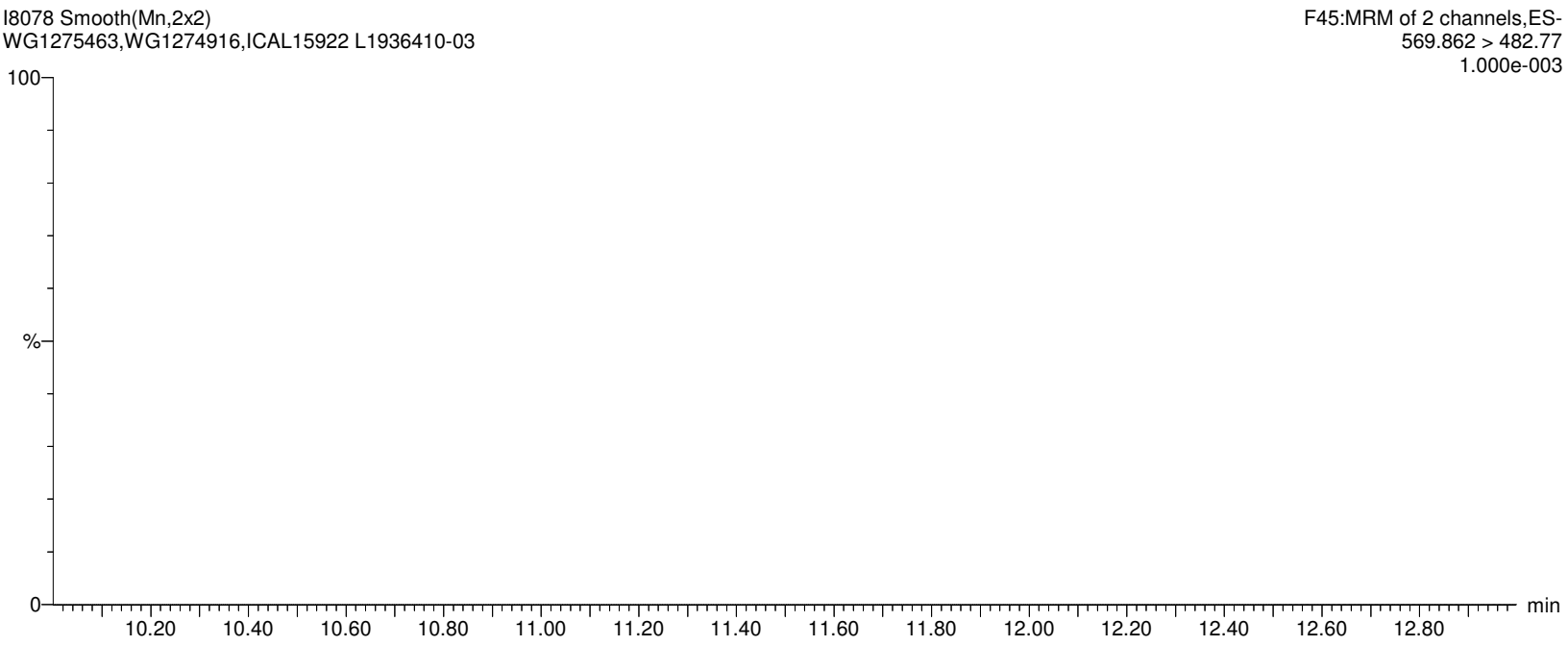
all concentration units in (ng/mL)

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NMeFOSAA



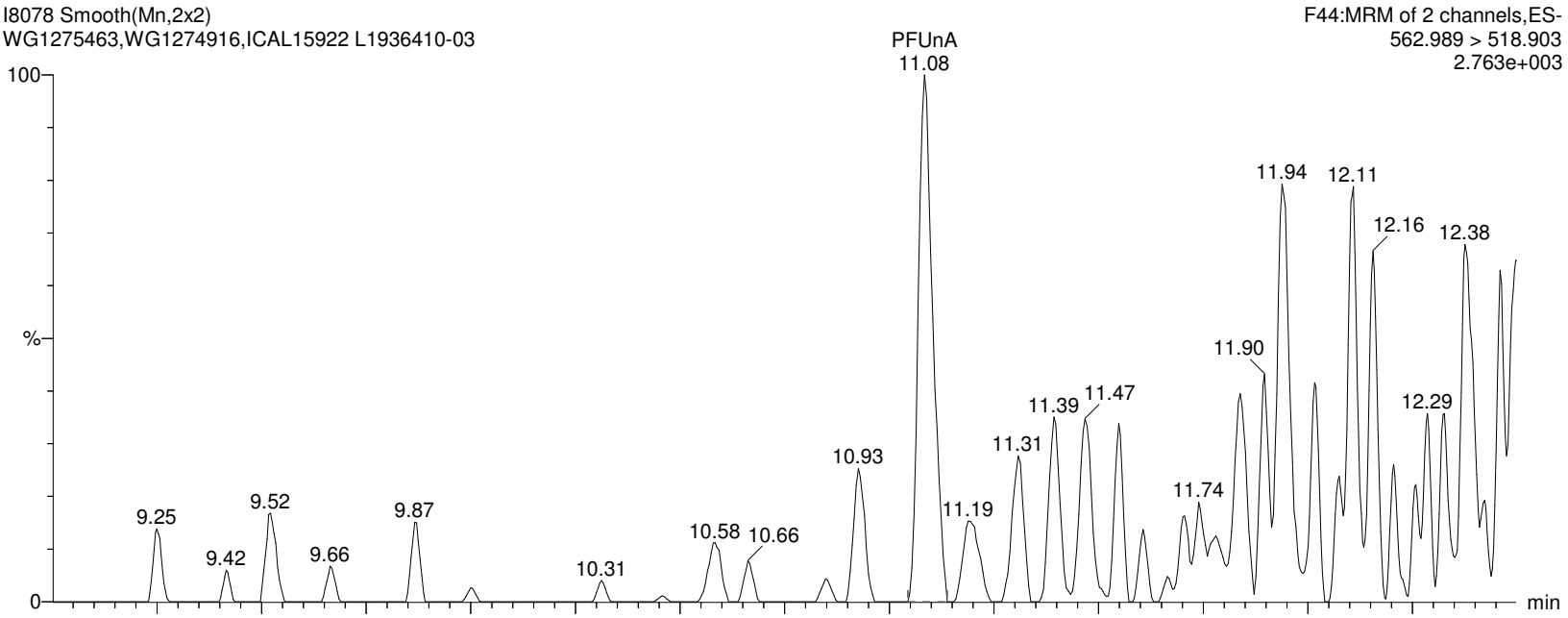


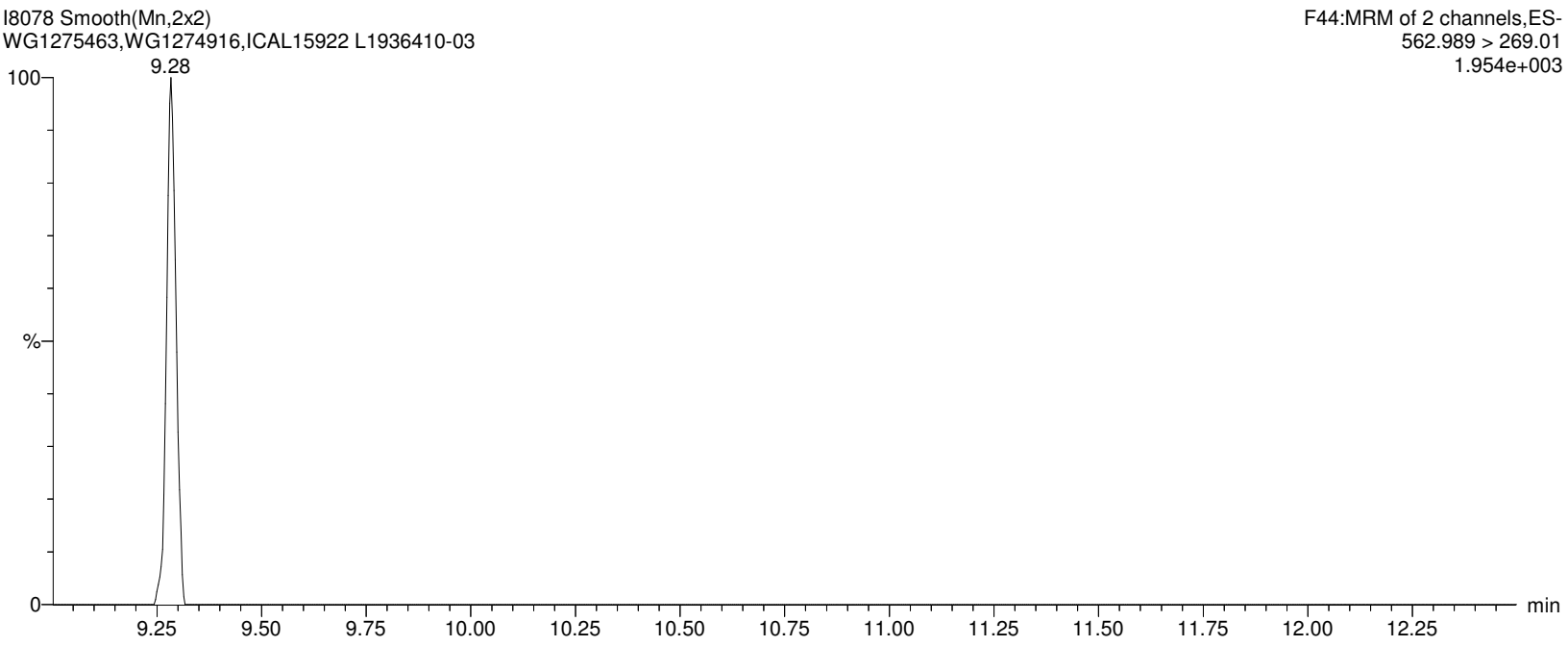
all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\wg1275463b.qld
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Vial: 1:C,8
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PFUnA



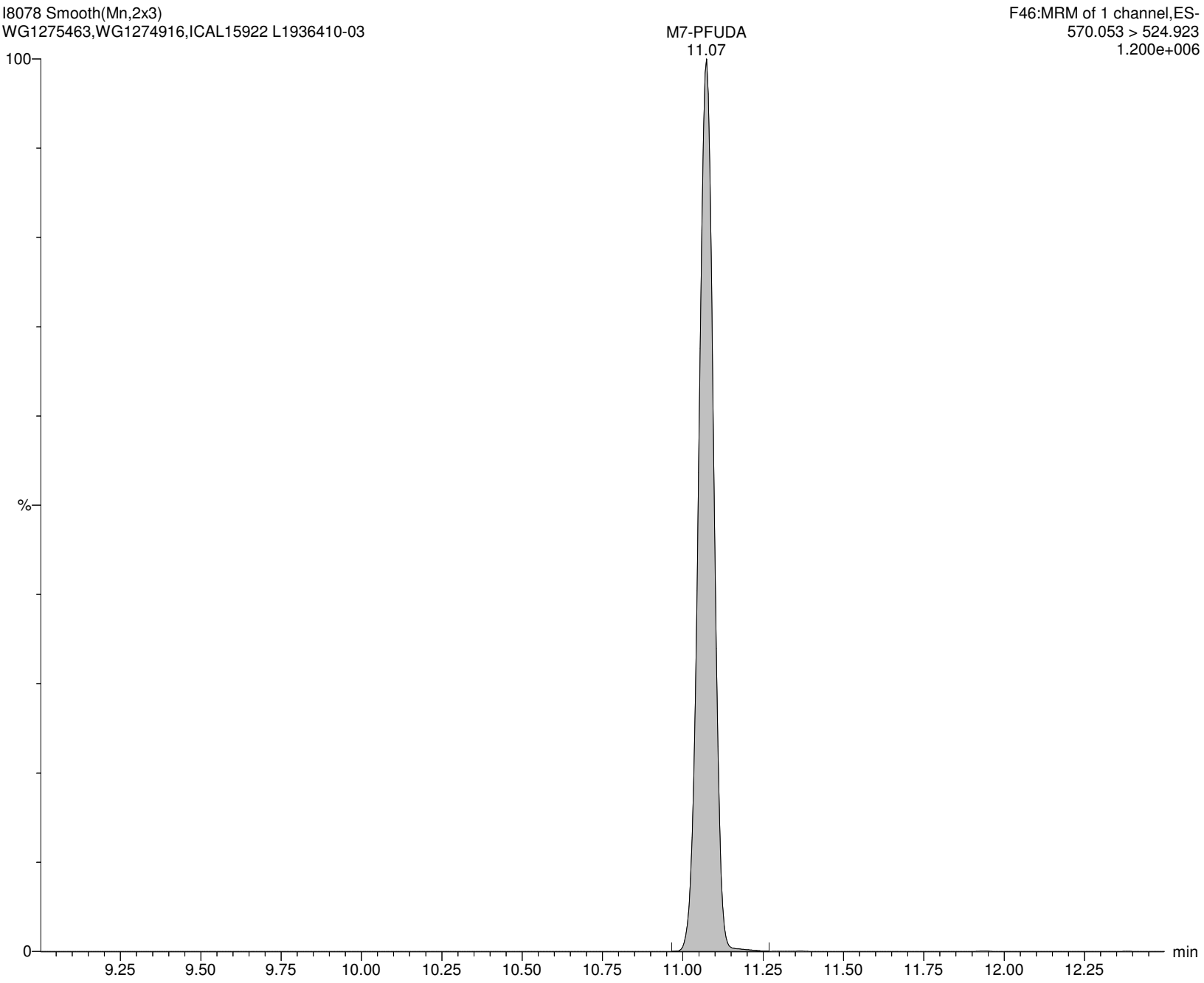


all concentration units in (ng/mL)

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M7-PFUDA

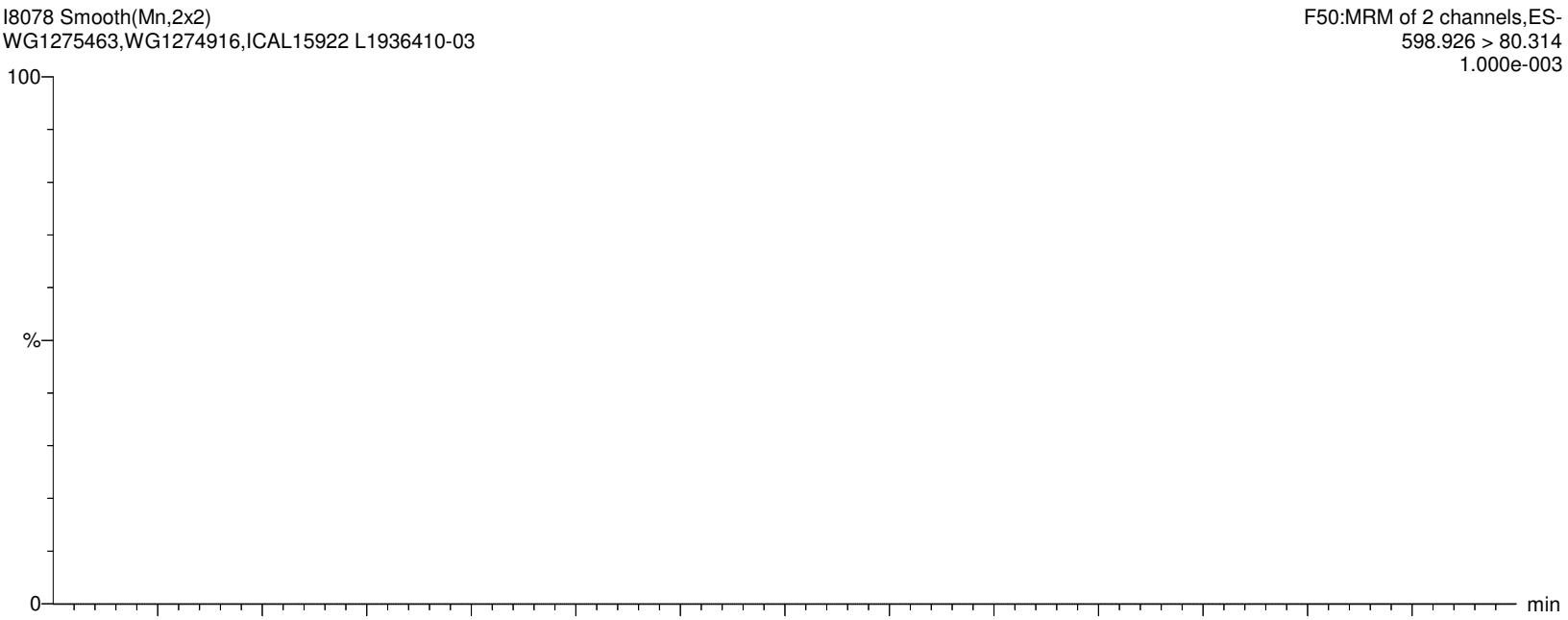


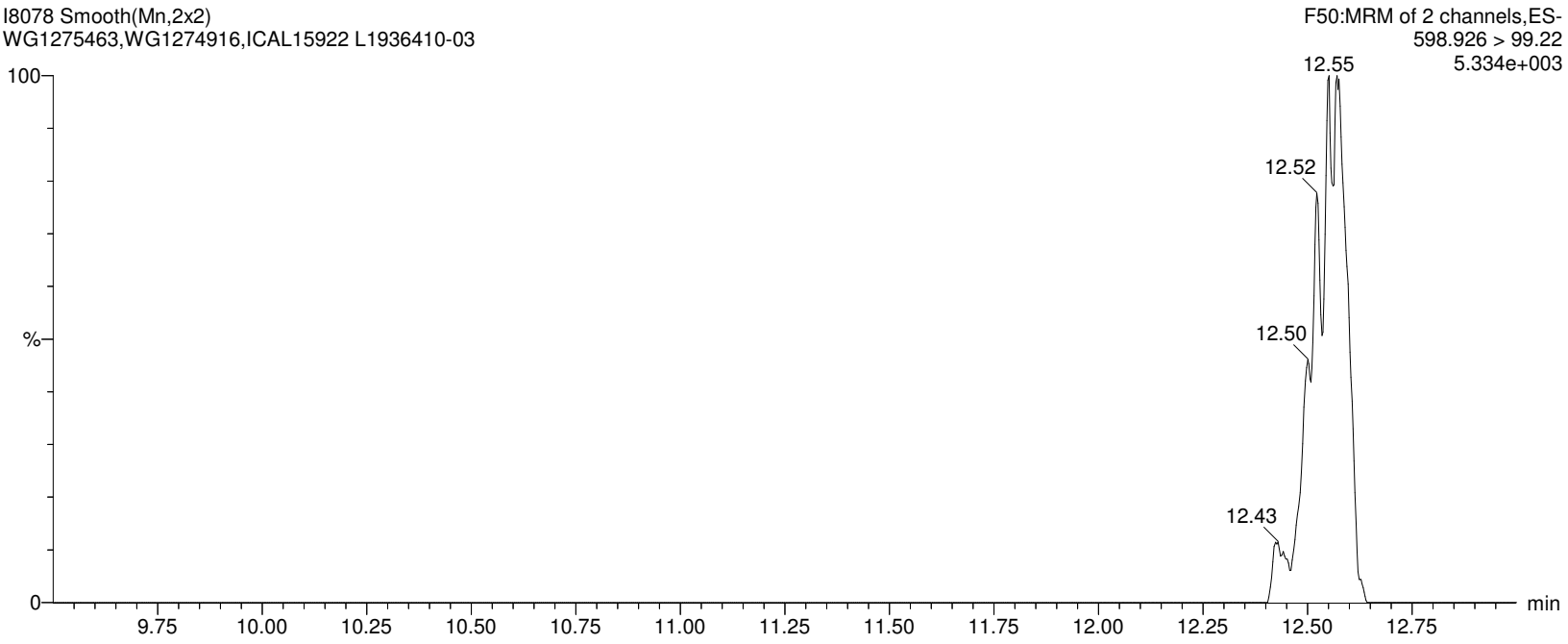
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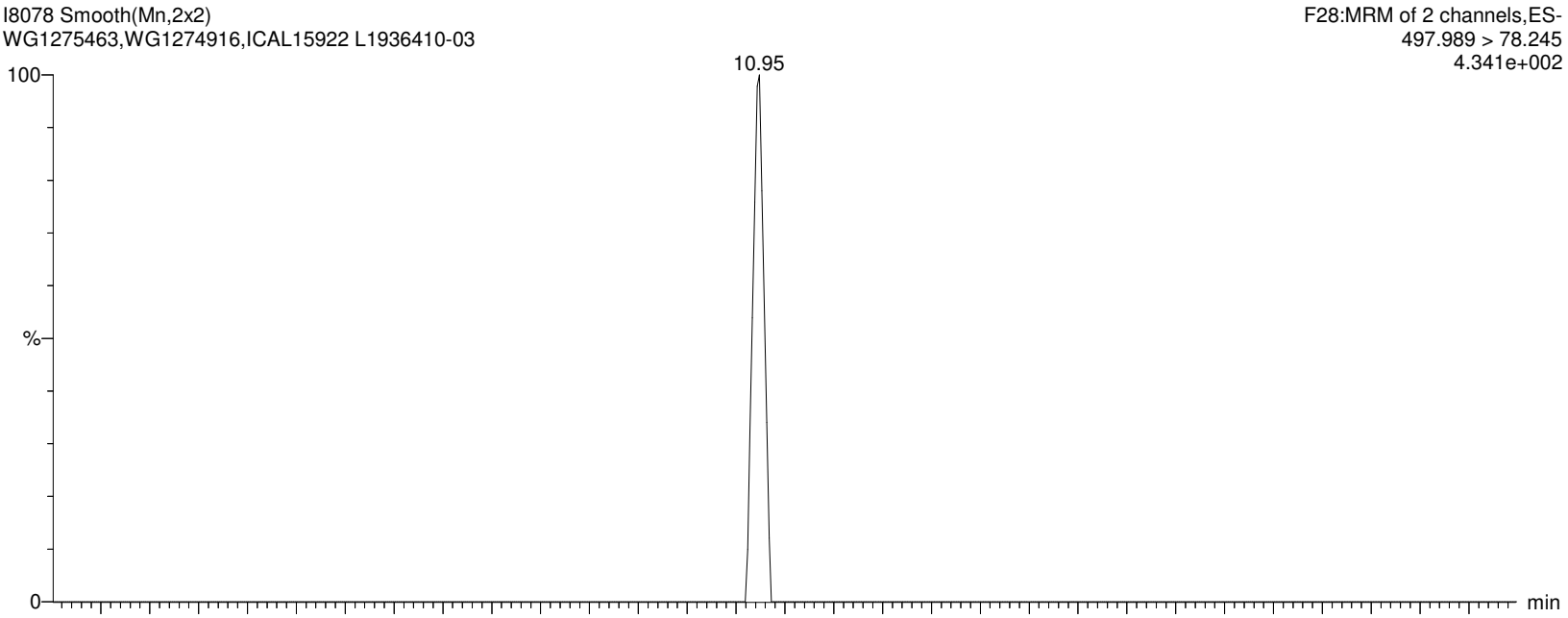


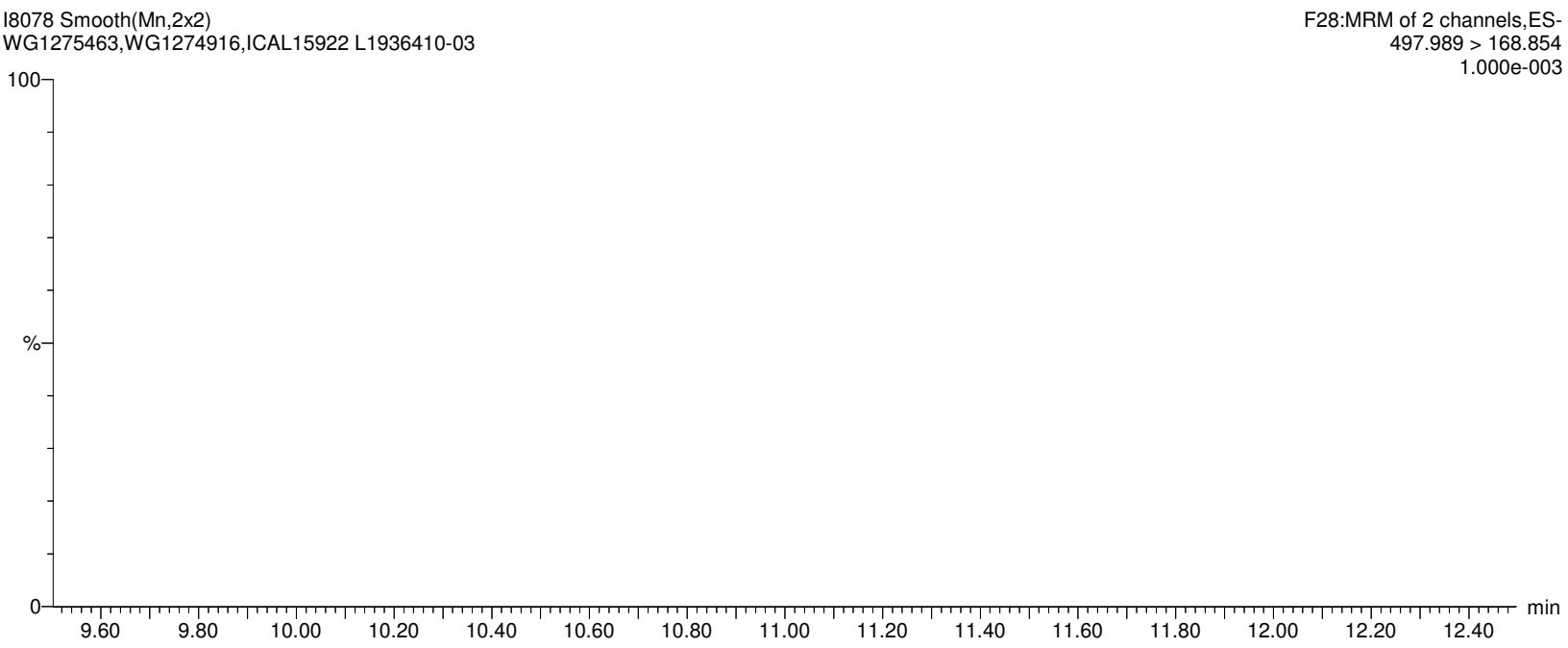
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FOSA



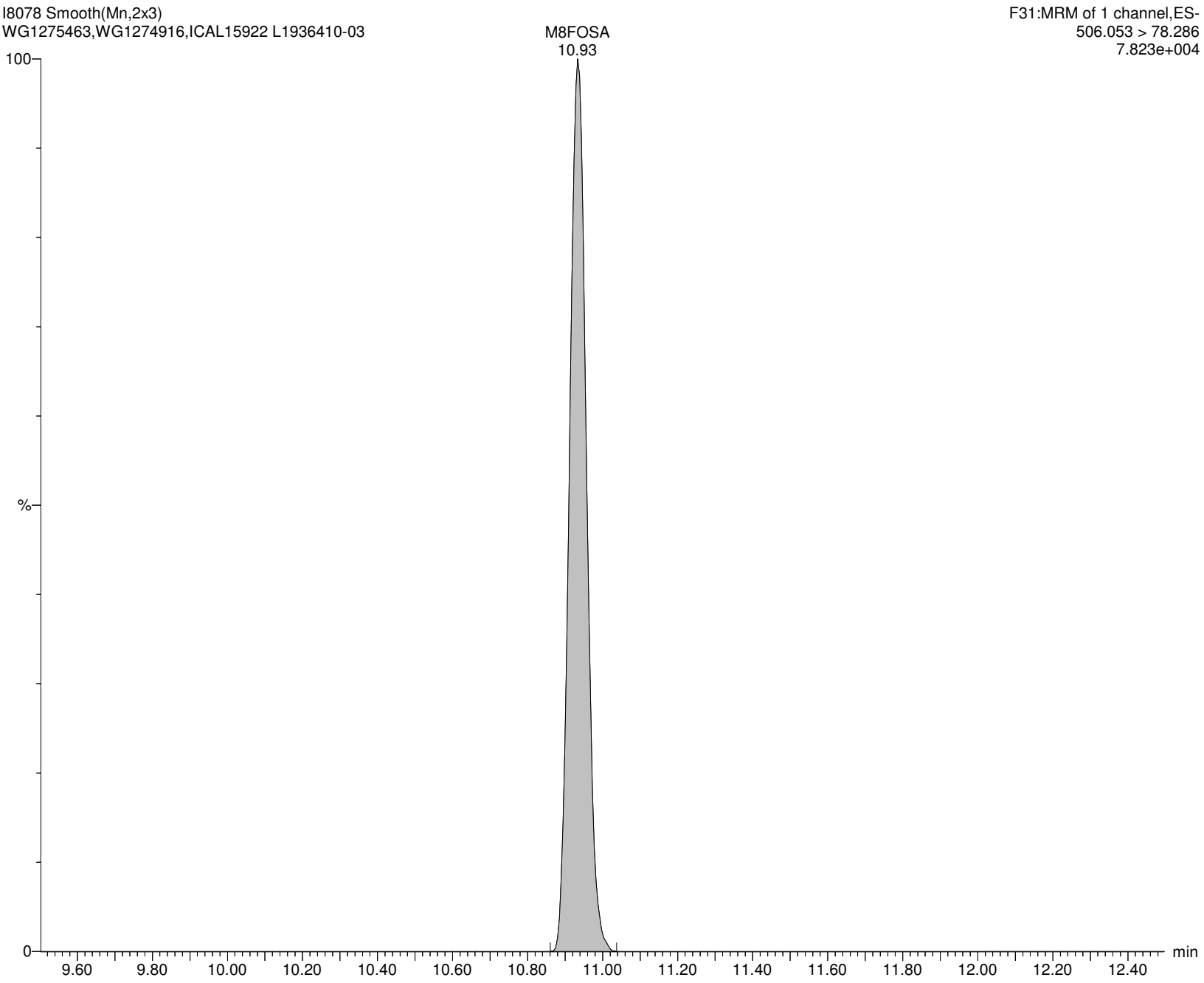


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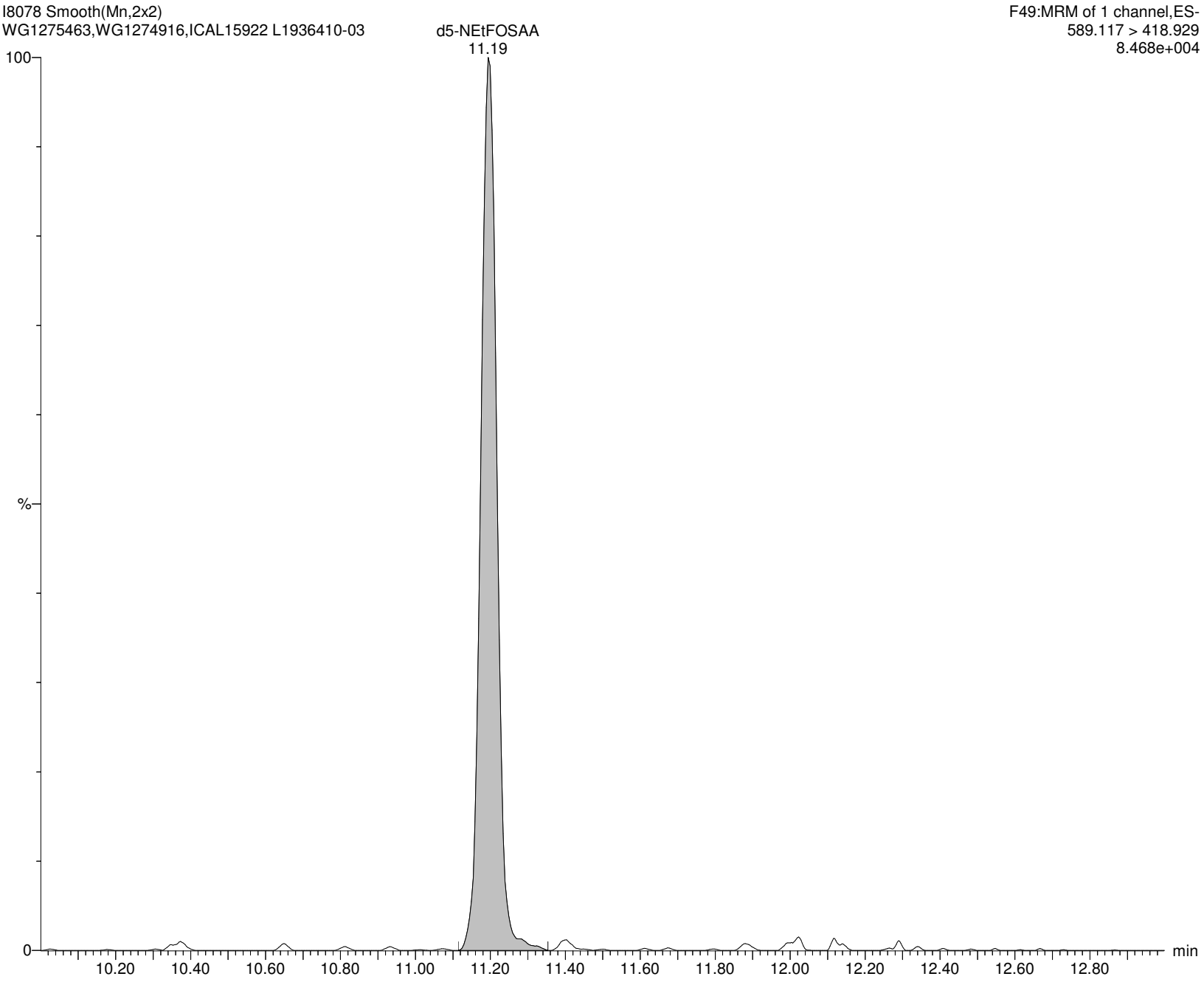


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d5-NEtFOSAA

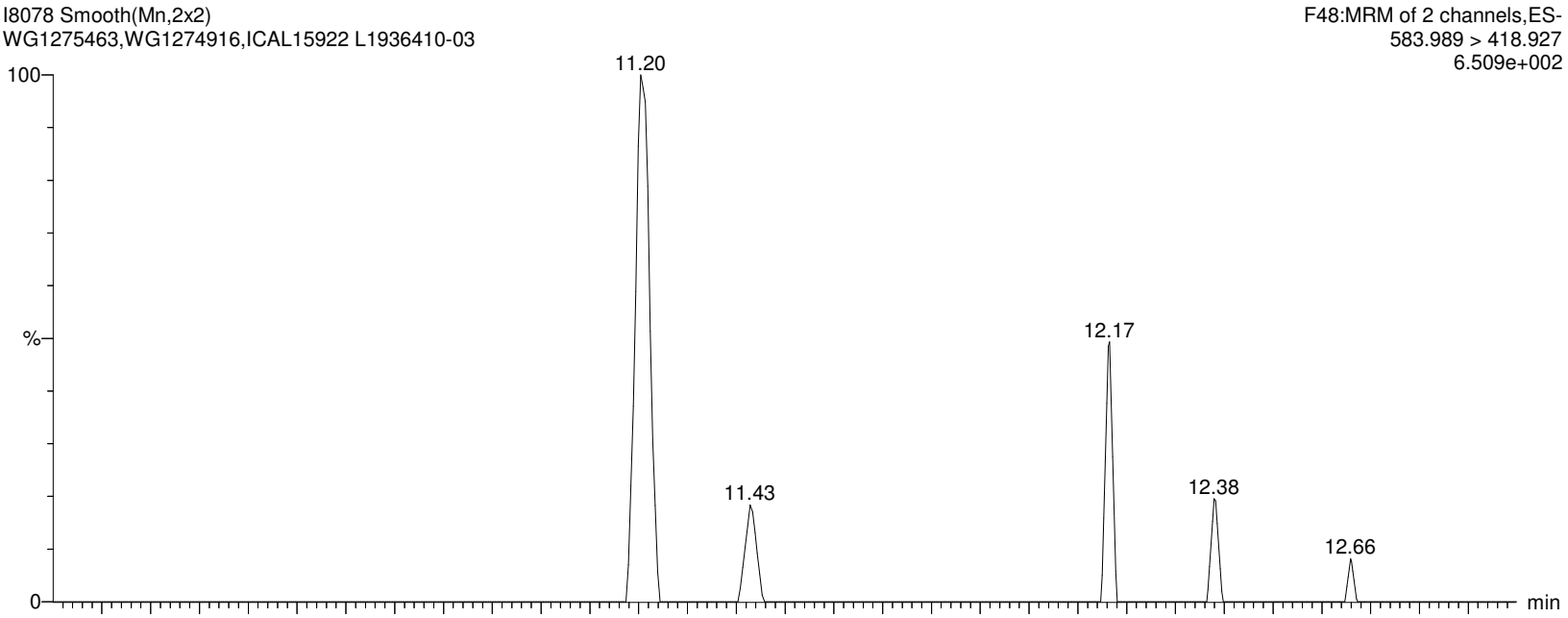


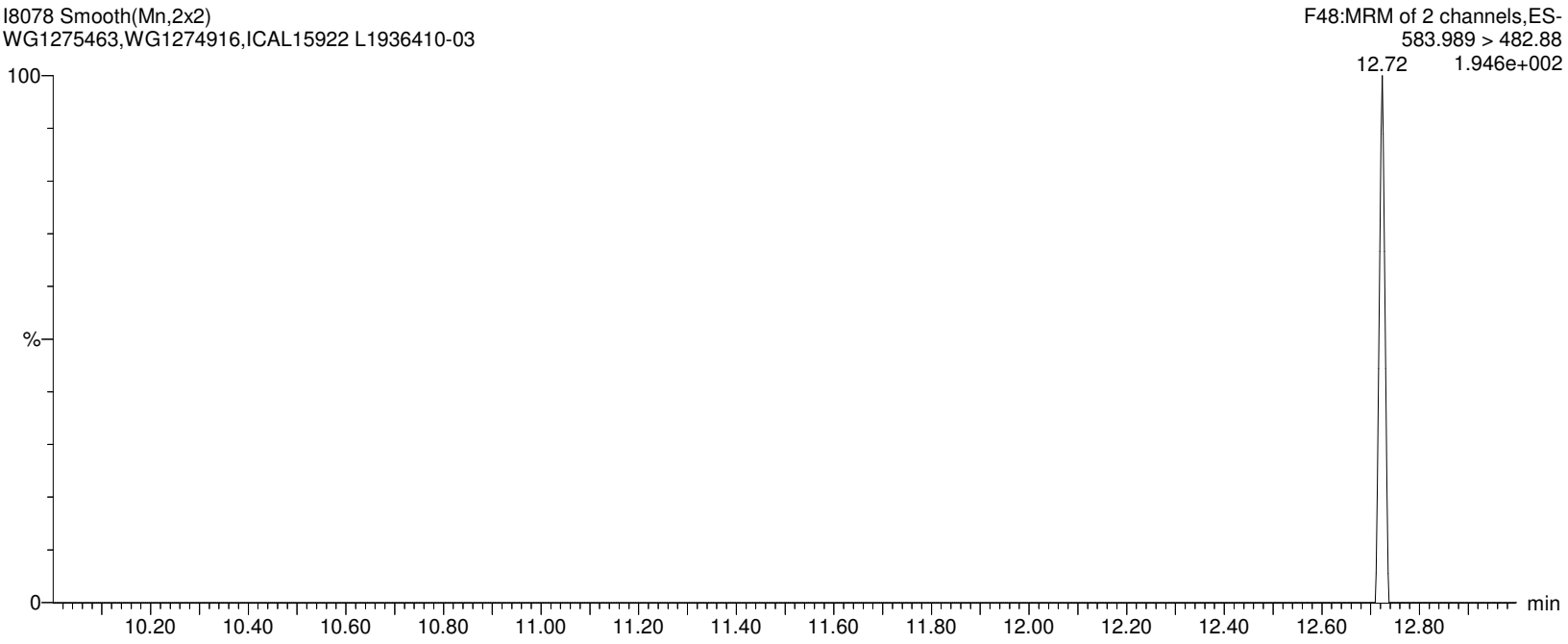
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Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:C,8
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
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NEtFOSAA



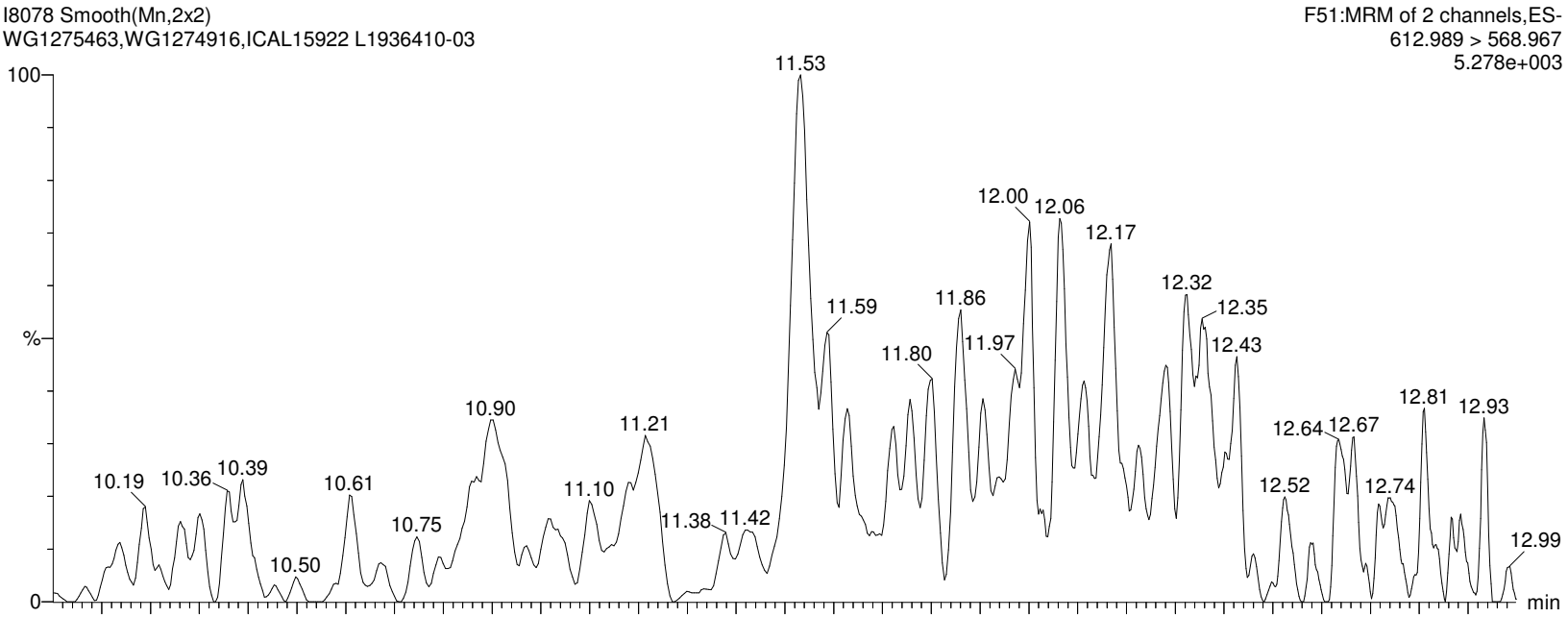


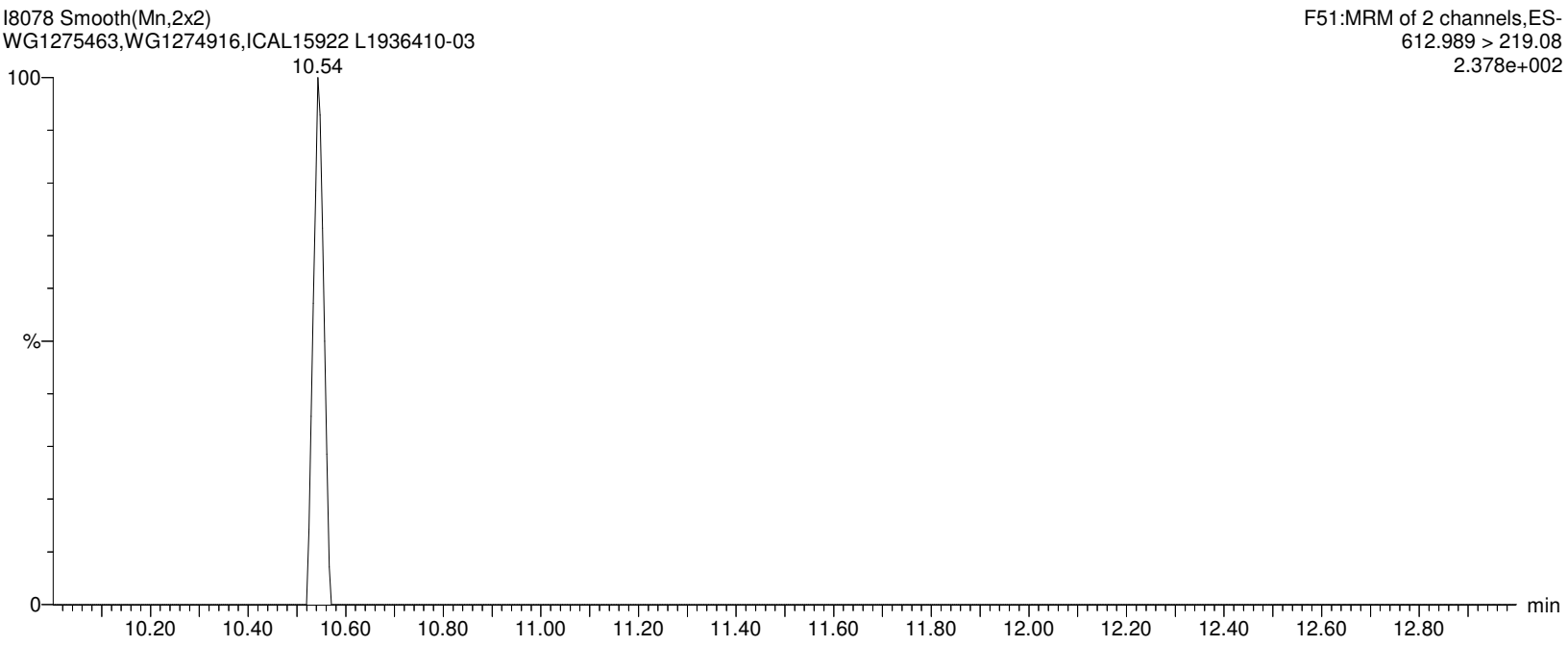
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\wg1275463b.qld
Last Altered: Friday, August 23, 2019 09:51:17 Eastern Daylight Time
Printed: Friday, August 23, 2019 09:51:32 Eastern Daylight Time

Name: I8078
ID: L1936410-03
Date: 22-Aug-2019
Time: 15:14:45
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User: LCMS02:JW
Vial: 1:C,8
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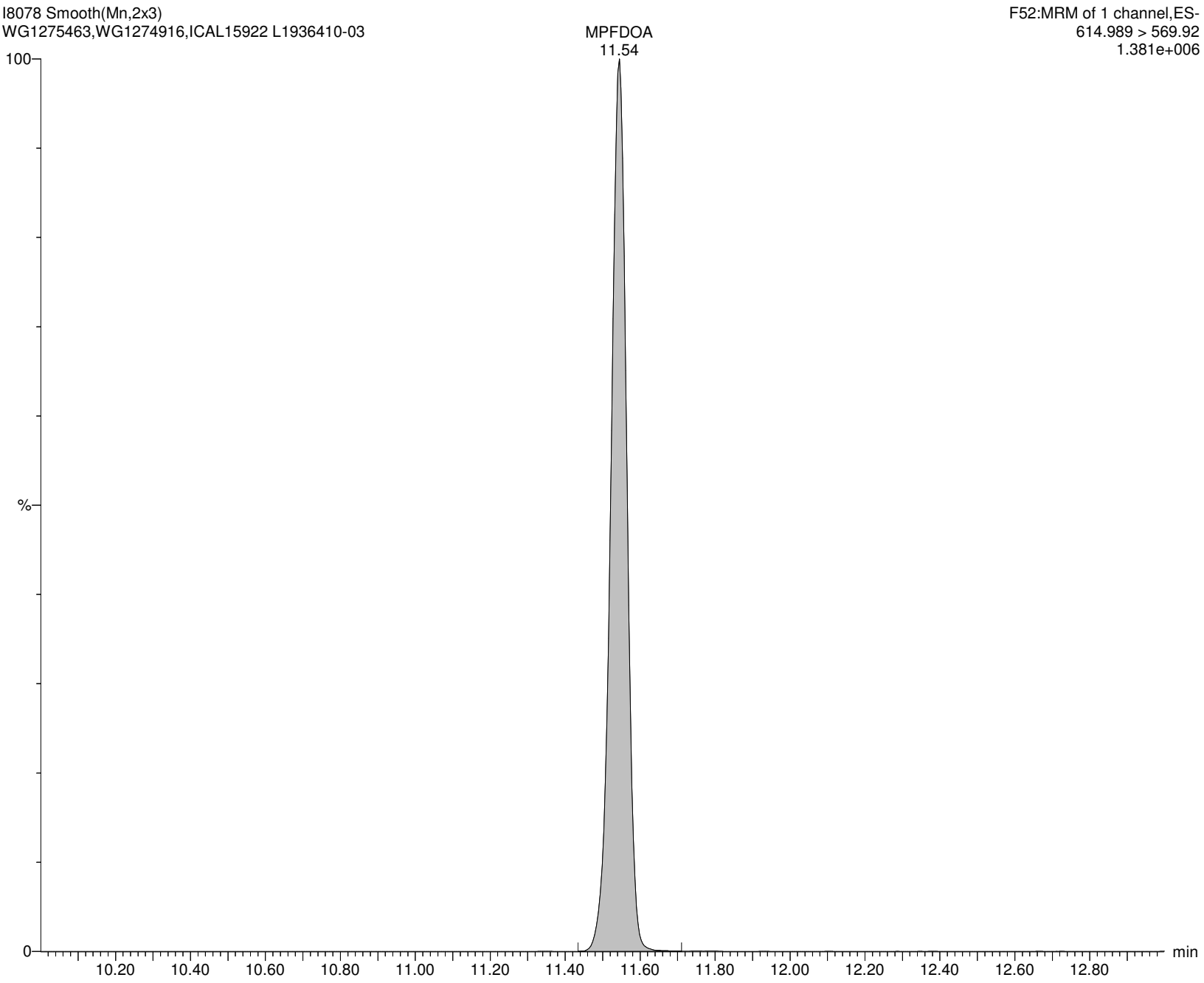


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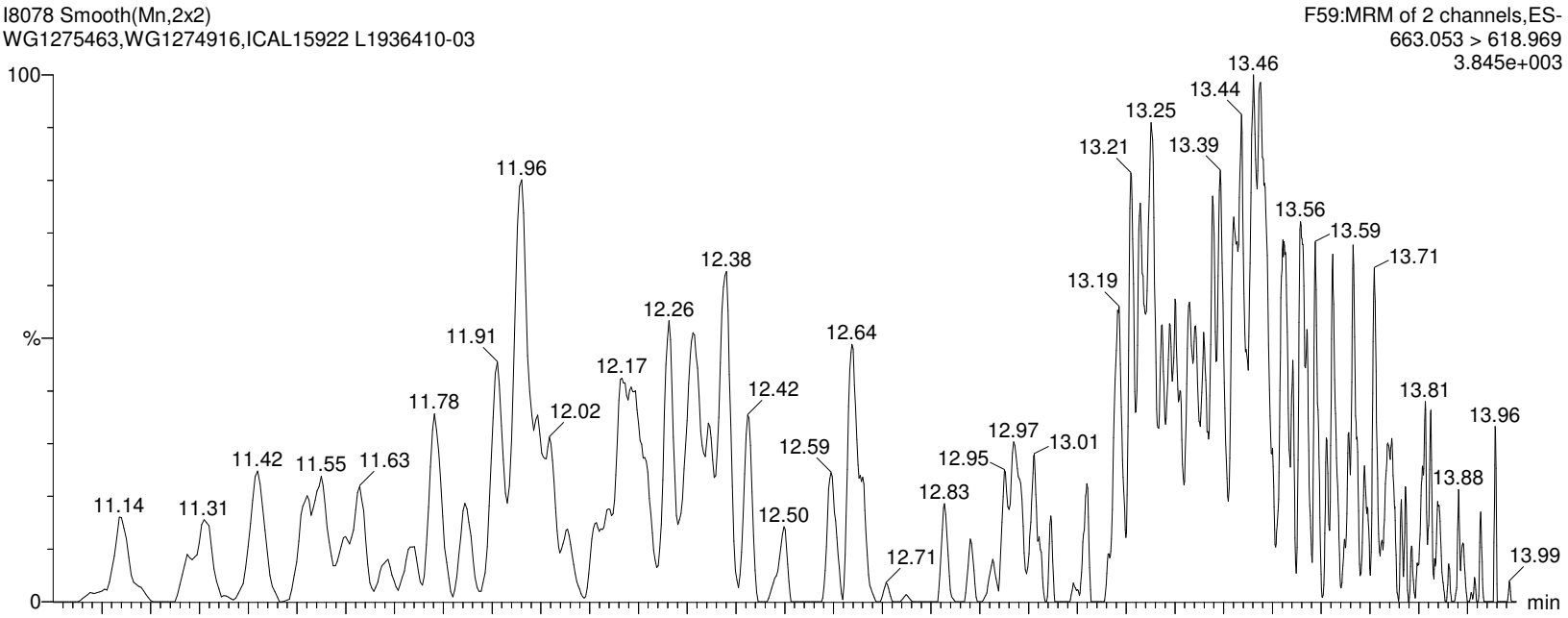


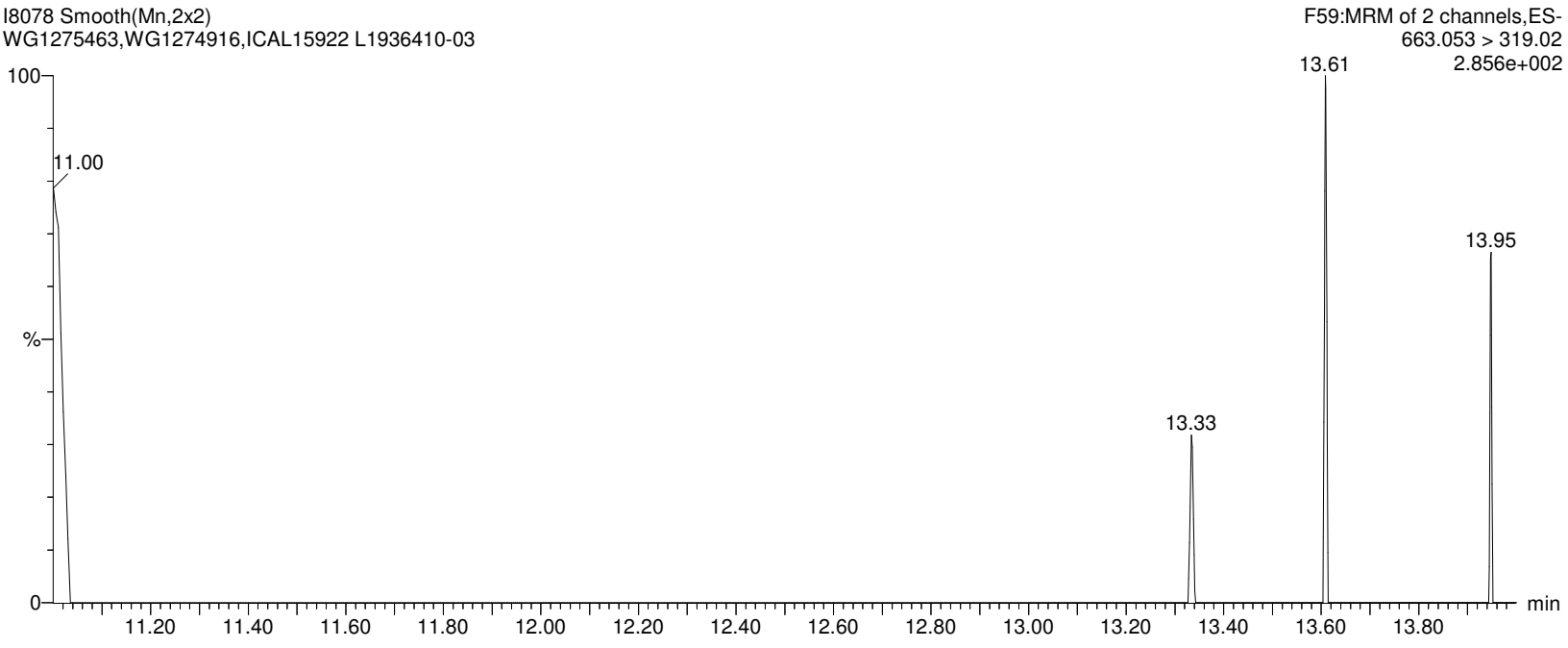
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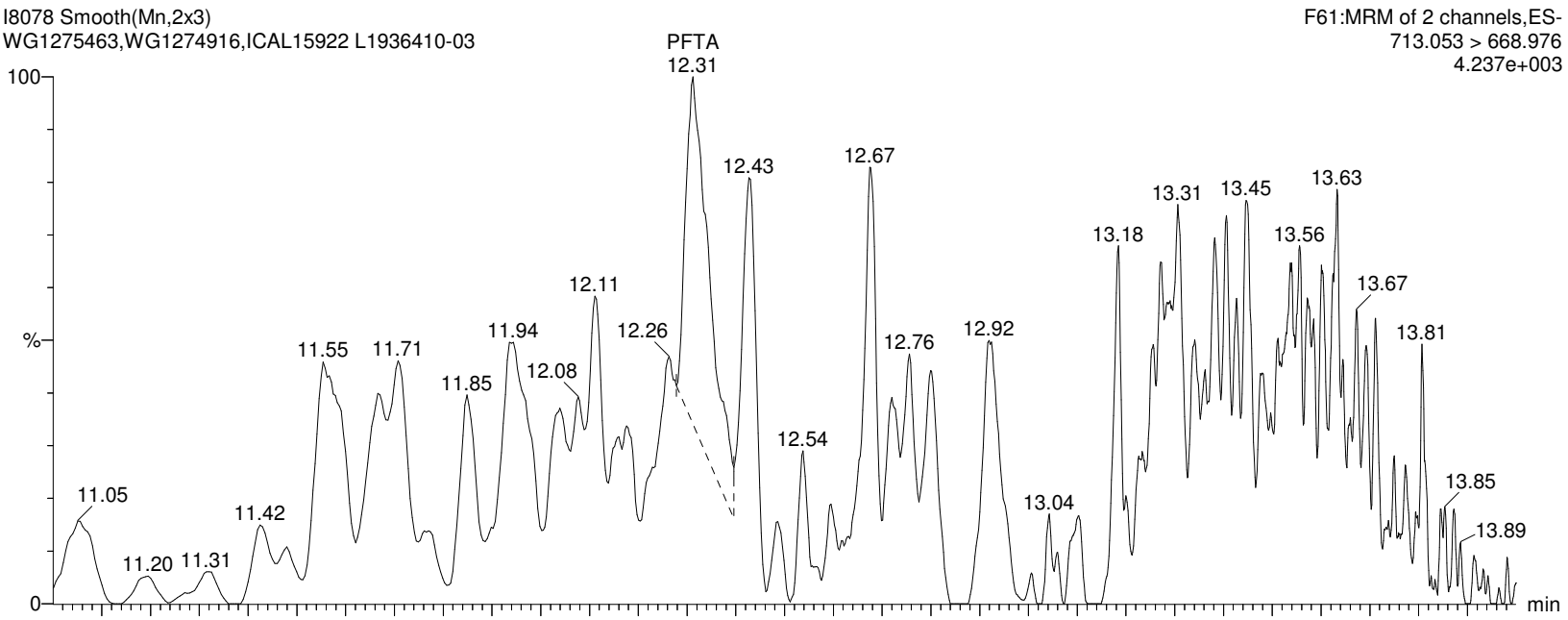


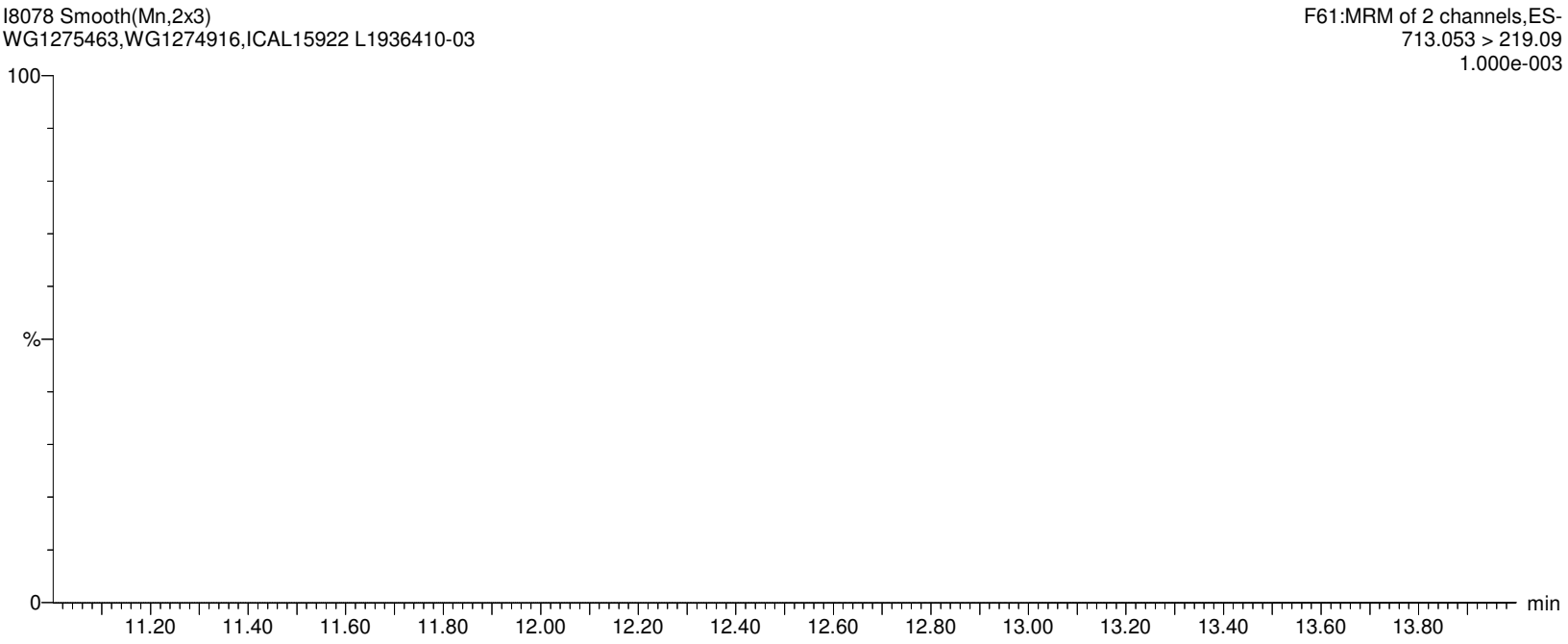
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PFTA



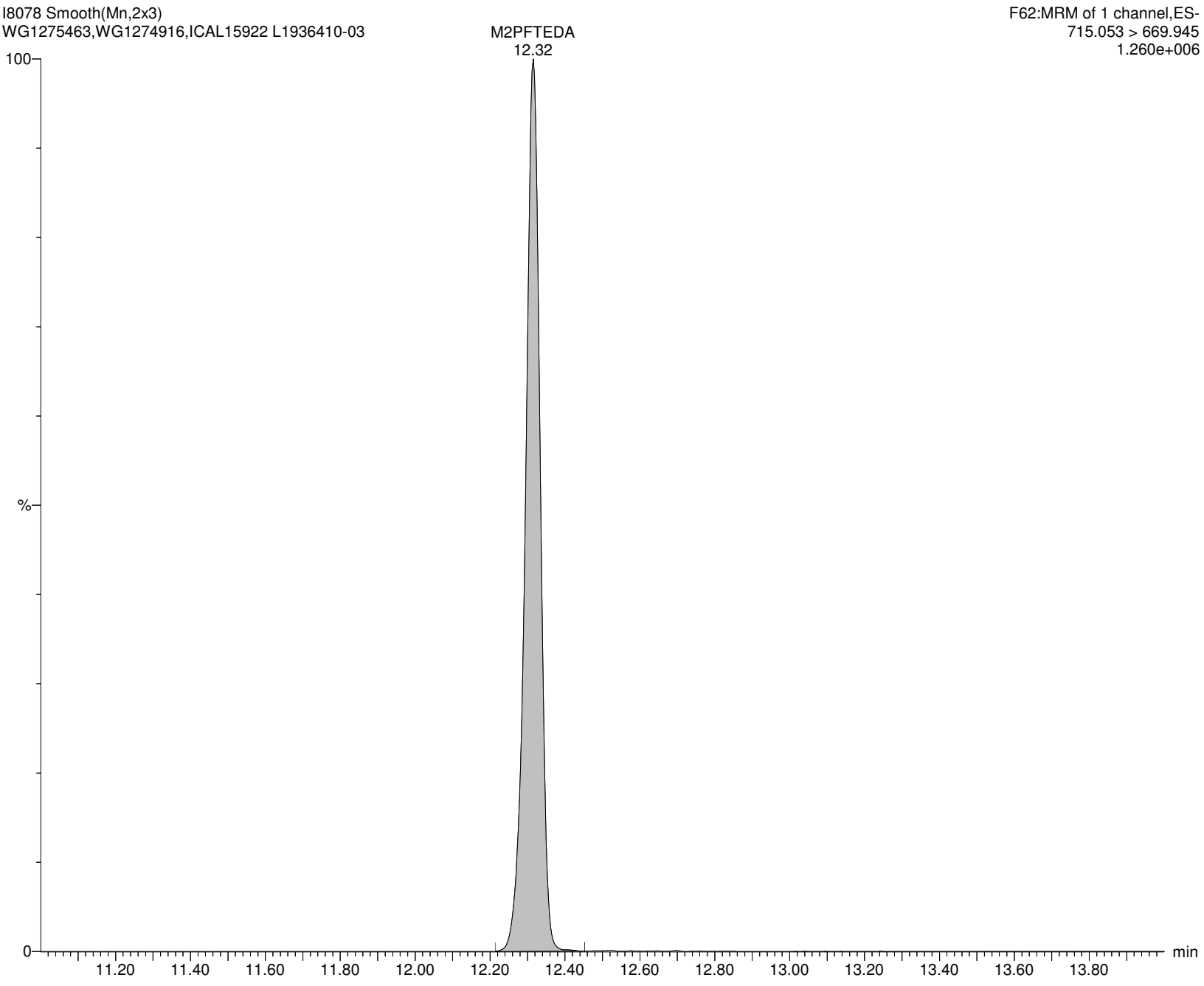


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M2PFTEDA



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Method: C:\MassLynx\Data\2019\190822_537ISO.PRO\MethDB\537ISO_Q_190702_DODRT.mdb 07 Aug 2019 10:42:09
Calibration: C:\MassLynx\Data\2019\190822_537ISO.PRO\CurveDB\190702_ISO_ICAL.cdb 02 Jul 2019 11:07:37

ID: L1936410-04
Name: I8079
Date: 22-Aug-2019
Time: 15:31:17
Description: WG1275463,WG1274916,ICAL15922
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
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Tune Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4		212.926 > 169.111			ND		na	
2	M3PFBA	INT STD	2.09	215.926 > 172.122	27076		7.001		na	70.0
3	MPFBA	INT STD	2.09	216.926 > 172.137	26811		8.830		na	88.3
4	PFPeA	2706-90-3		262.926 > 219.002			ND		na	
5	M5PFPEA	INT STD	4.98	267.989 > 223.081	48535		11.293		na	112.9
6	PFBS	375-73-5		298.926 > 79.923			ND		YES	
7	M3PFBS	INT STD	5.64	301.989 > 80.254	9501		8.926		na	89.3
8	4:2FTS	757124-72-4		326.926 > 306.957			ND		YES	
9	M2-4:2FTS	INT STD	6.82	329.117 > 309.079	2536		3.976		na	39.8
10	PFHxA	307-24-4	6.90	312.989 > 269.028	580		0.096		YES	
11	M5PFHxA	INT STD	6.90	317.989 > 273.045	61378		8.626		na	86.3
12	PFPeS	2706-91-4		348.926 > 80.251			ND		YES	
13	PFHpA	375-85-9		362.926 > 319.014			ND		YES	
14	M4PFHpA	INT STD	8.19	366.926 > 321.979	80065		8.832		na	88.3
15	br-PFHxS	355-46-4		398.926 > 80.295			ND		YES	
16	L-PFHxS	355-46-4		398.926 > 80.295			ND		YES	
17	PFHxS	355-46-4		398.926 > 80.295	0		ND		na	
18	M3PFHxS	INT STD	8.35	401.926 > 80.317	6195		9.390		na	93.9
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	YES	
20	L-PFOA	335-67-1		412.989 > 368.9			ND	0.00	YES	
21	M2PFOA	INT STD	9.14	415.032 > 369.968	84403		9.257		na	92.6
22	PFOA	335-67-1		412.989 > 368.9	0		ND		na	
23	M8PFOA	INT STD	9.14	420.989 > 375.979	77929		9.293		na	92.9
24	6:2FTS	27619-97-2		426.989 > 406.921			ND		YES	
25	M2-6:2FTS	INT STD	9.10	428.989 > 408.917	2252		3.919		na	39.2
26	PFHpS	375-92-8		448.926 > 80.257			ND		YES	
27	PFNA	375-95-1		462.989 > 418.931			ND		YES	
28	M9PFNA	INT STD	9.90	472.053 > 426.947	75675		9.745		na	97.4
29	br-PFOS	1763-23-1	9.75	498.989 > 80.294	11	m5	0.013		YES	
30	L-PFOS	1763-23-1	9.94	498.989 > 80.294	41	m4	0.049		YES	
31	PFOS	1763-23-1		498.989 > 80.294	52		0.062		na	
32	M4PFOS	INT STD	9.95	503.032 > 80.306	7997		10.753		na	107.5
33	M8PFOS	INT STD	9.95	507.053 > 80.294	8034		9.328		na	93.3
34	PFDA	335-76-2		513.053 > 468.906			ND		YES	
35	M2PFDA	INT STD	10.53	515.053 > 469.934	72060		10.075		na	100.7
36	M6PFDA	INT STD	10.53	519.053 > 473.931	70318		8.727		na	87.3
37	8:2FTS	39108-34-4		526.926 > 506.818			ND		na	
38	M2-8:2FTS	INT STD	10.52	529.053 > 508.945	1321		4.187		na	41.9
39	PFNS	68259-12-1		548.989 > 80.249			ND		YES	

all concentration units in (ng/mL)

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ID: L1936410-04
Name: I8079
Date: 22-Aug-2019
Time: 15:31:17
Description: WG1275463,WG1274916,ICAL15922
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.91	573.096 > 418.987	5538		6.926		na	69.3
41	NMeFOSAA	2355-31-9		570.053 > 418.917			ND		YES	
42	PFUnA	2058-94-8		562.989 > 518.903			ND		YES	
43	M7-PFUDA	INT STD	11.07	570.053 > 524.923	61448		8.625		na	86.2
44	PFDS	335-77-3		598.926 > 80.314			ND		YES	
45	FOSA	754-91-6		497.989 > 78.245			ND		YES	
46	M8FOSA	INT STD	10.93	506.053 > 78.286	6138		2.560		na	25.6
47	d5-NEtFOSAA	INT STD	11.19	589.117 > 418.929	4862		6.711		na	67.1
48	NEtFOSAA	2991-50-6		583.989 > 418.927			ND		YES	
49	PFDoA	307-55-1		612.989 > 568.967			ND		YES	
50	MPFDOA	INT STD	11.54	614.989 > 569.92	66059		8.374		na	83.7
51	PFTrDA	72629-94-8		663.053 > 618.969			ND		YES	
52	PFTA	376-06-7		713.053 > 668.976			ND		YES	
53	M2PFTEDA	INT STD	12.31	715.053 > 669.945	58575		8.788		na	87.9

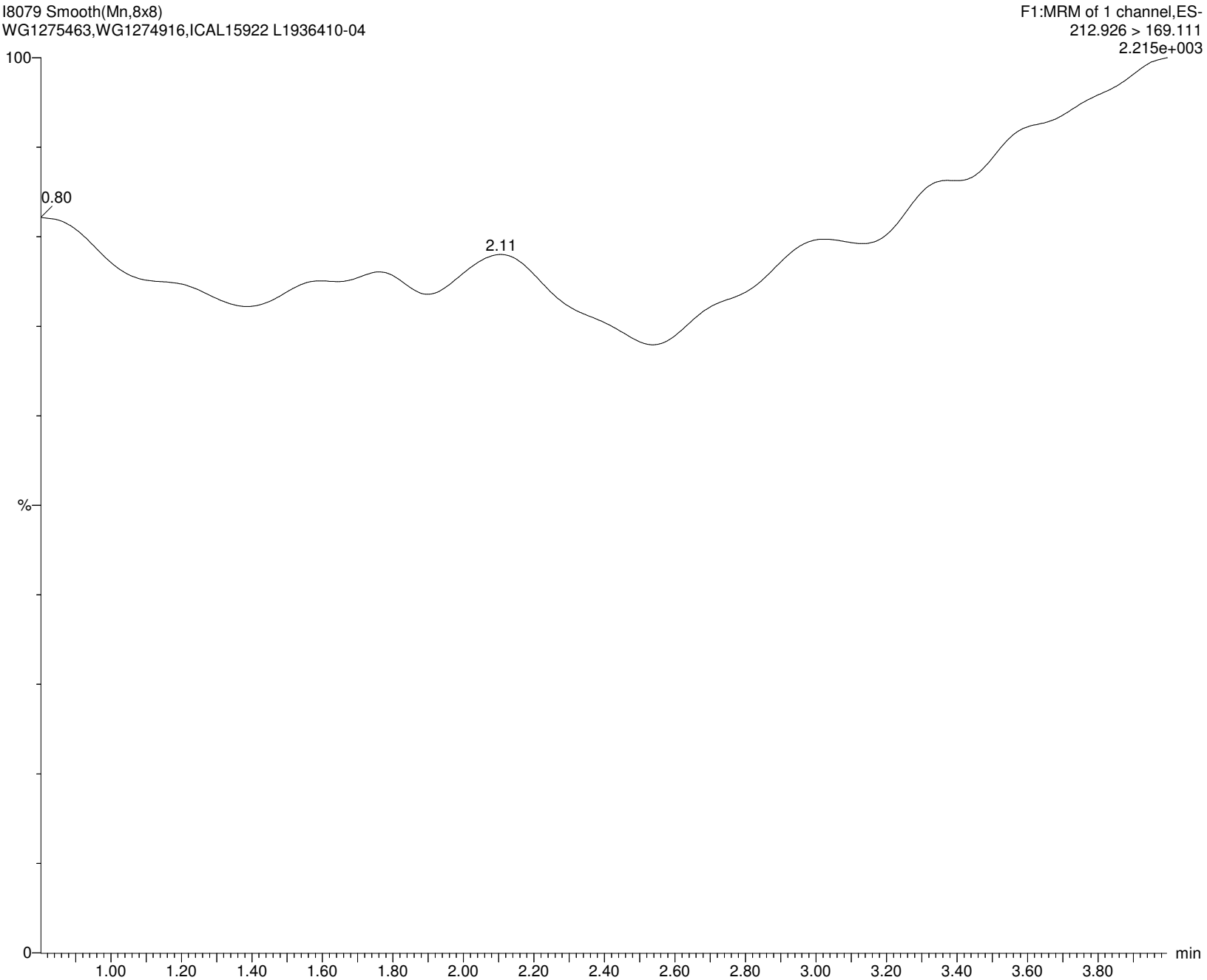
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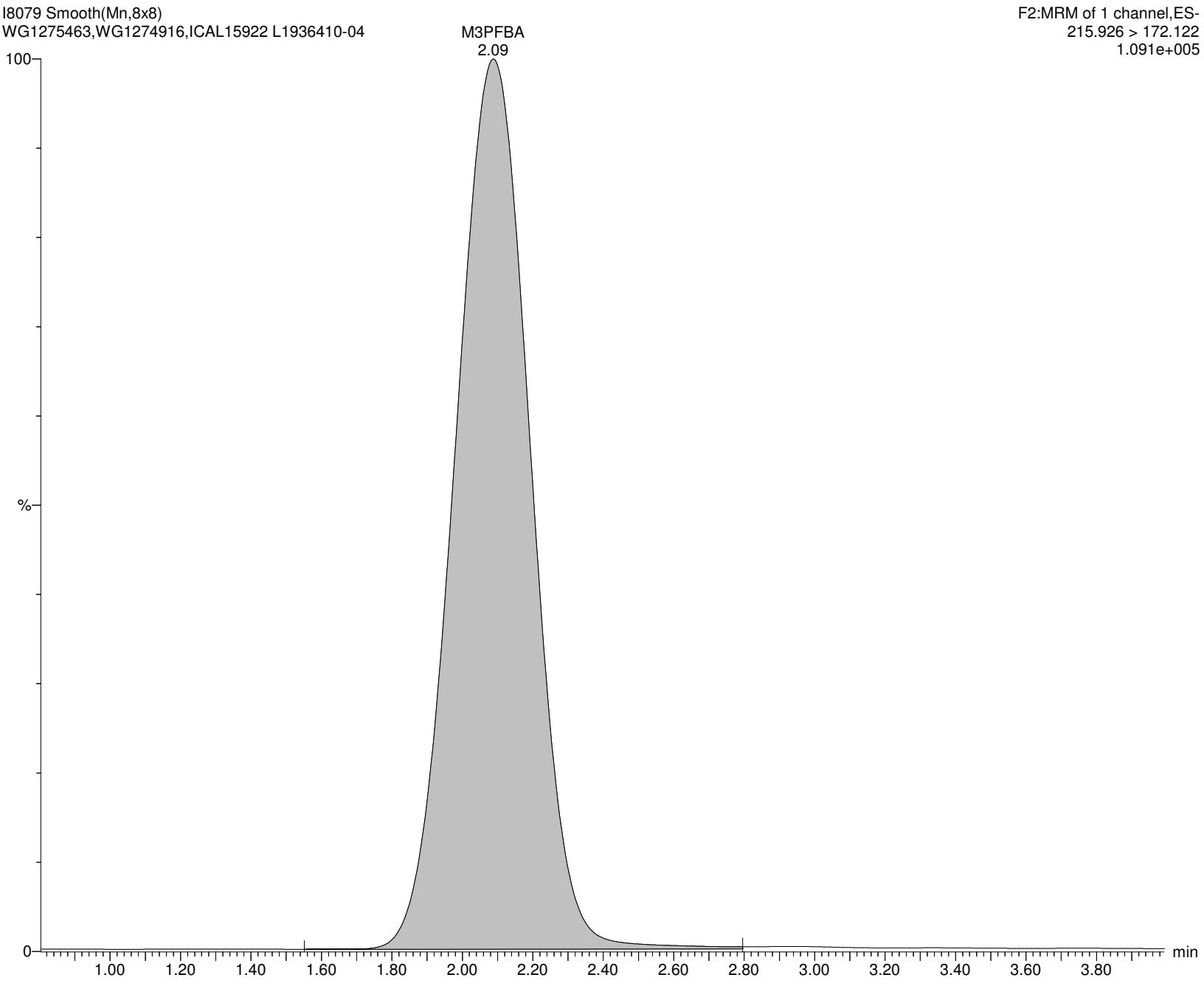


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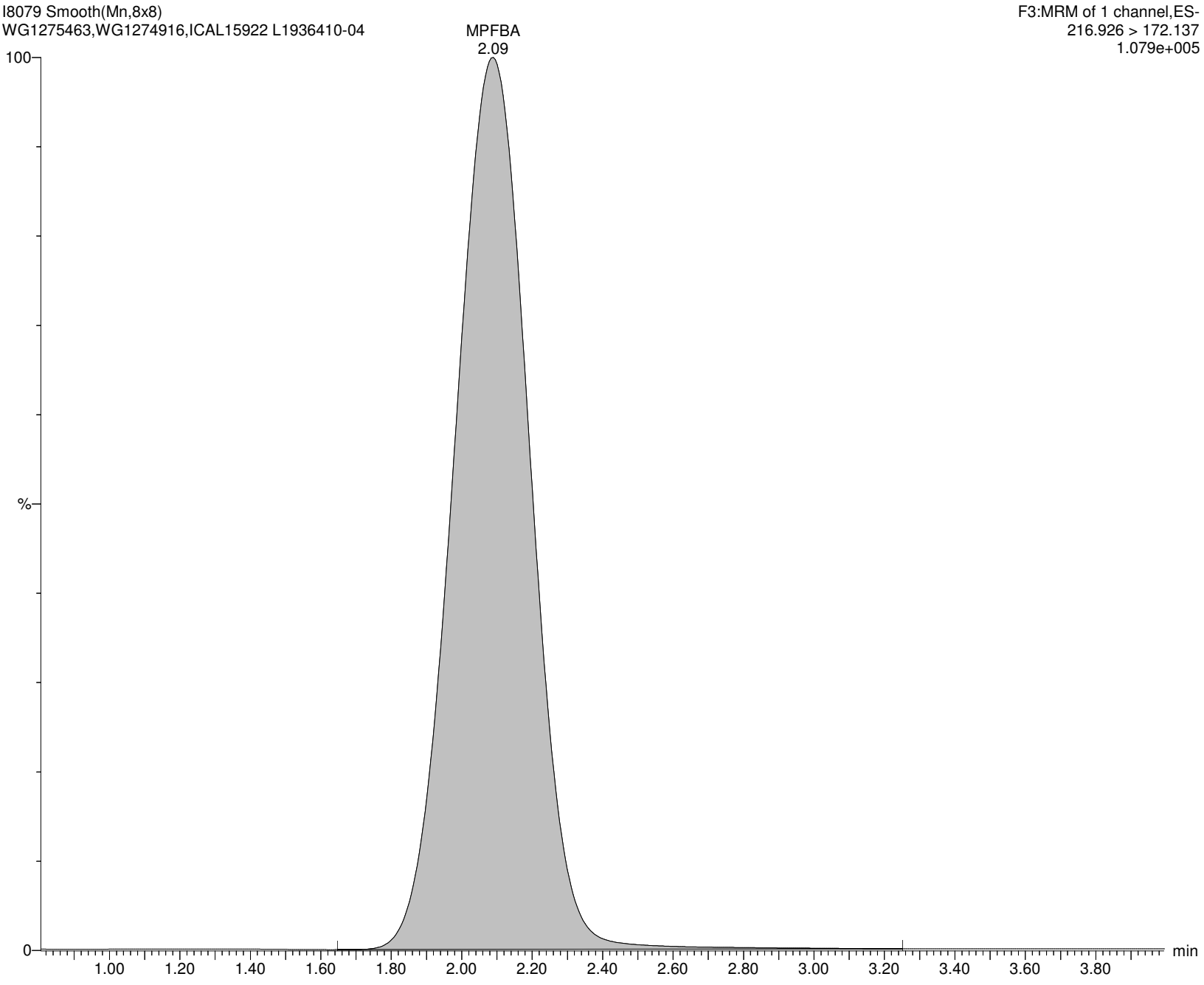


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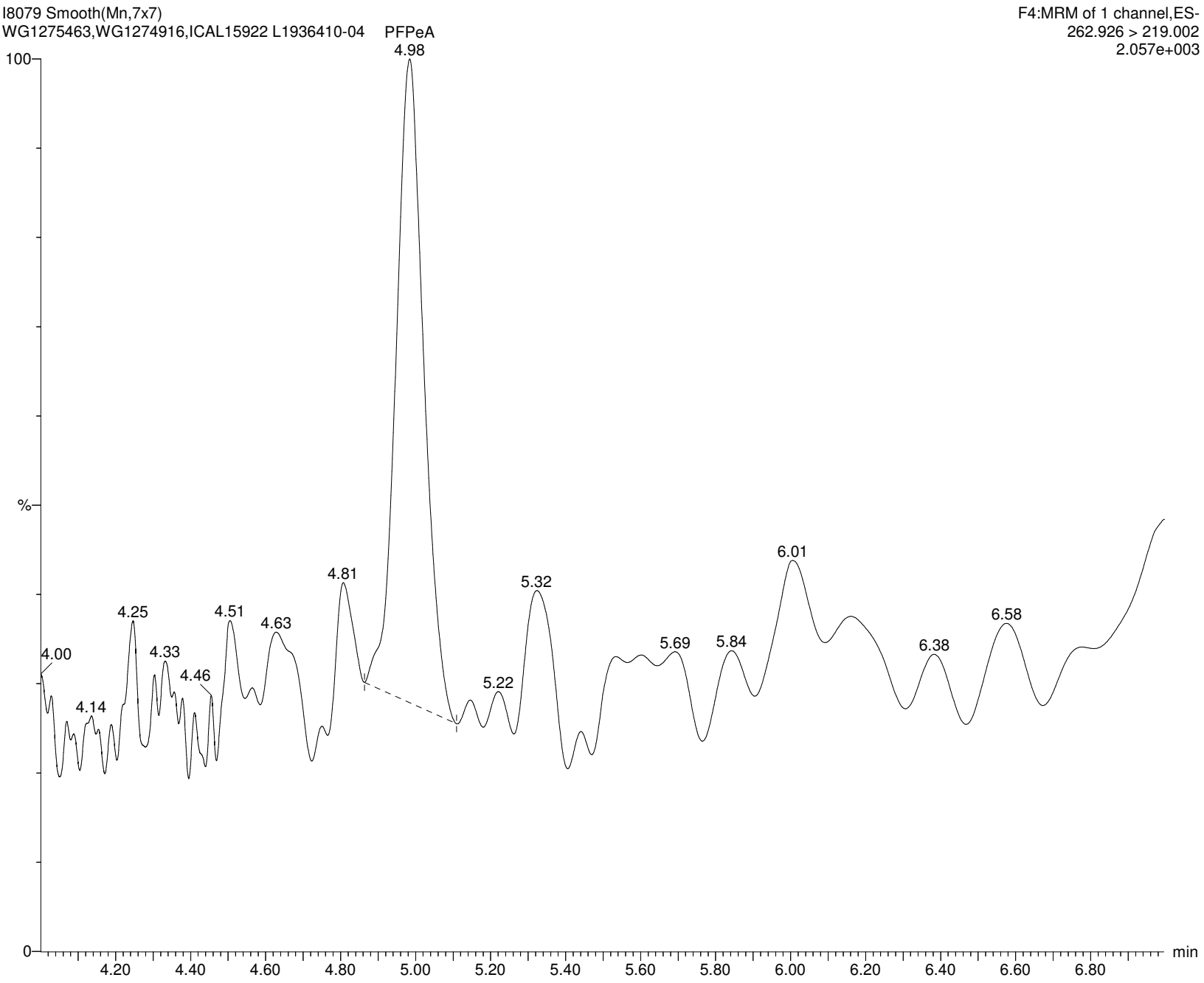


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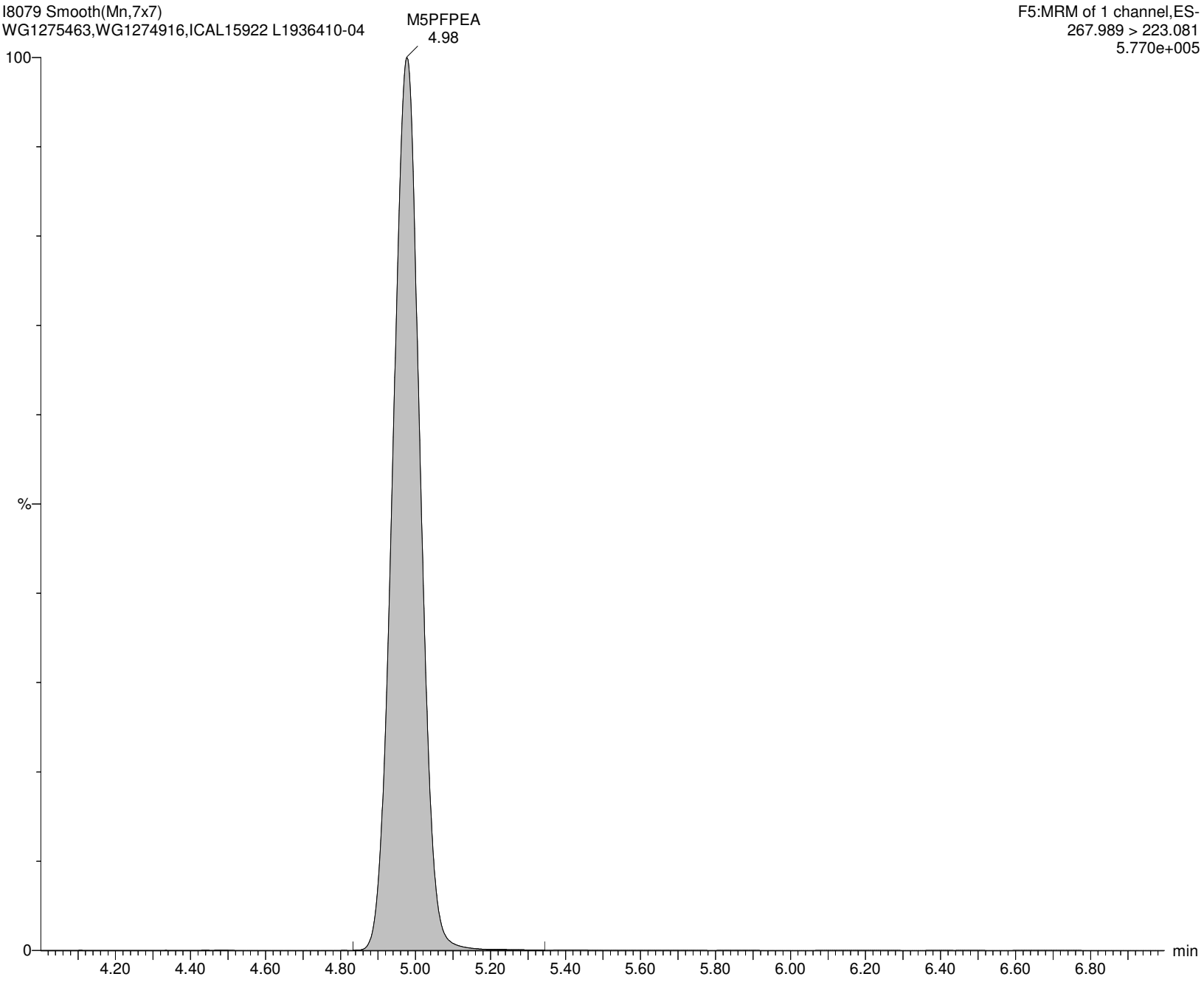


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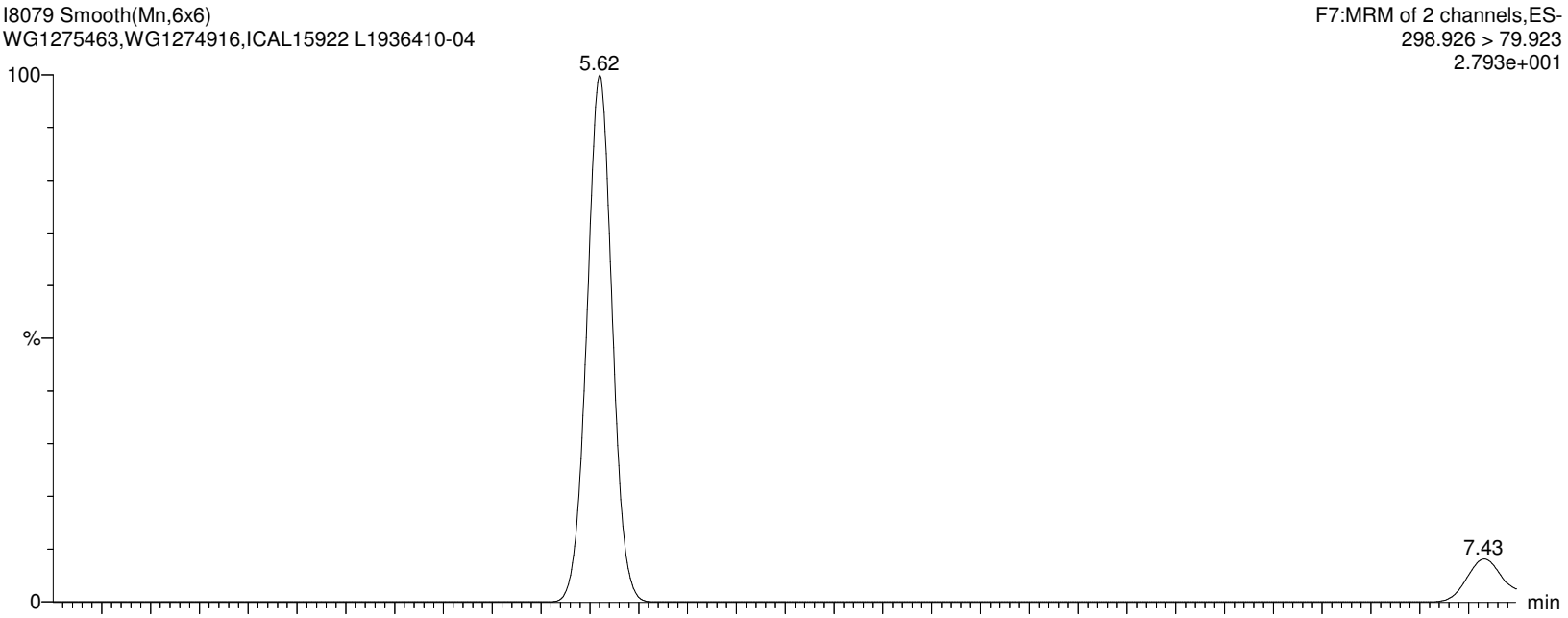


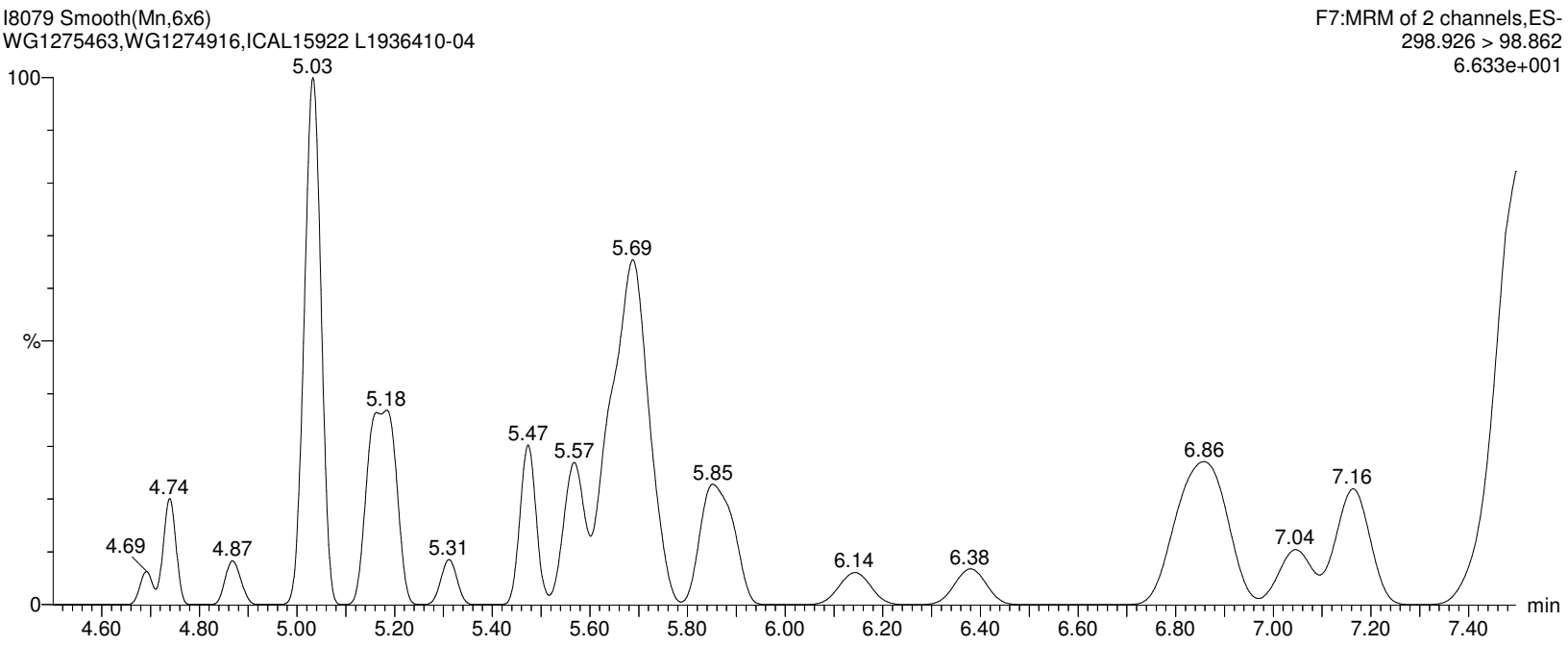
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\wg1275463b.qld
Last Altered: Friday, August 23, 2019 09:51:17 Eastern Daylight Time
Printed: Friday, August 23, 2019 09:51:34 Eastern Daylight Time

Name: I8079
ID: L1936410-04
Date: 22-Aug-2019
Time: 15:31:17
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:D,1
Instrument: XEVO-TQSmicro#QEB0050
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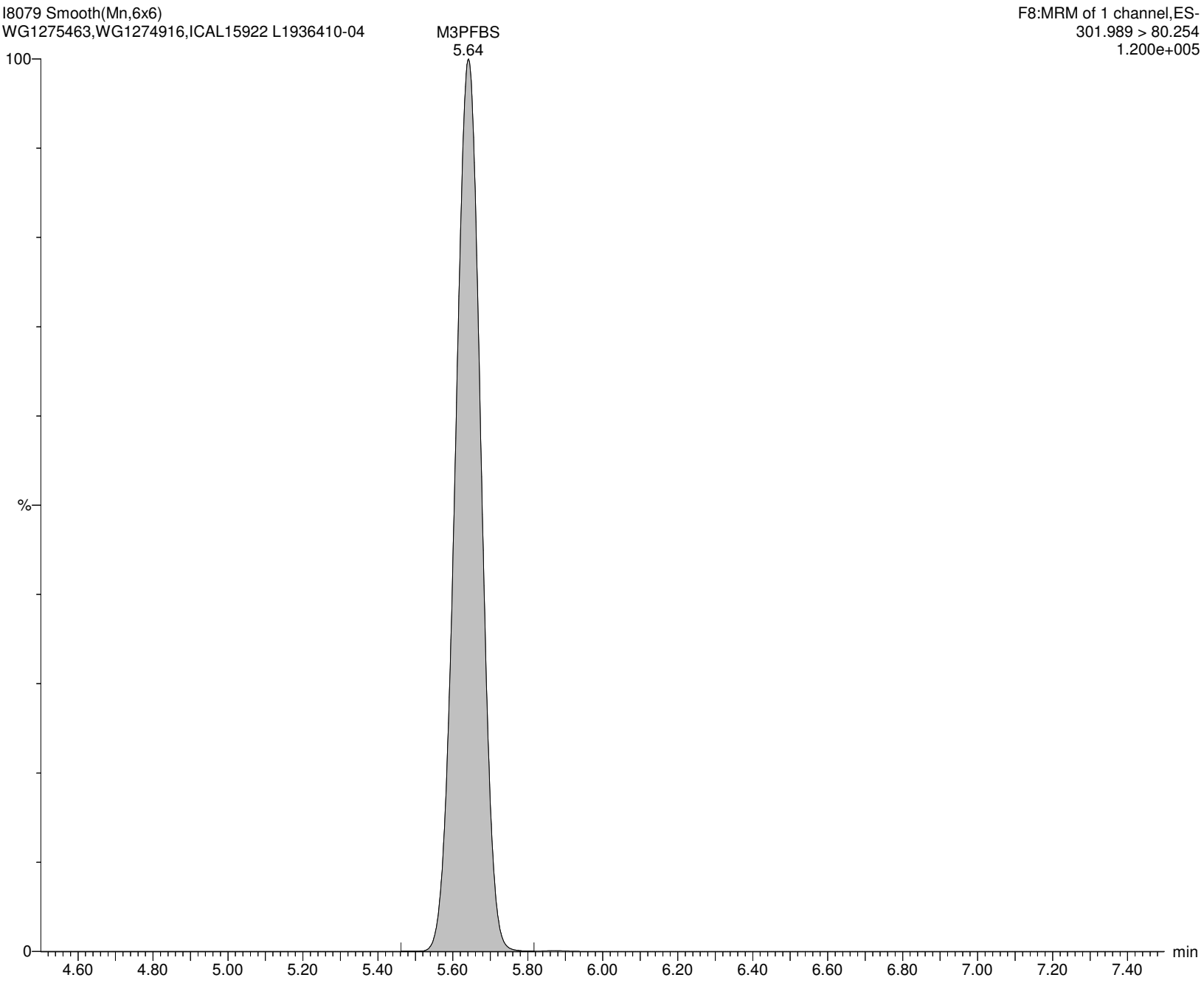


all concentration units in (ng/mL)

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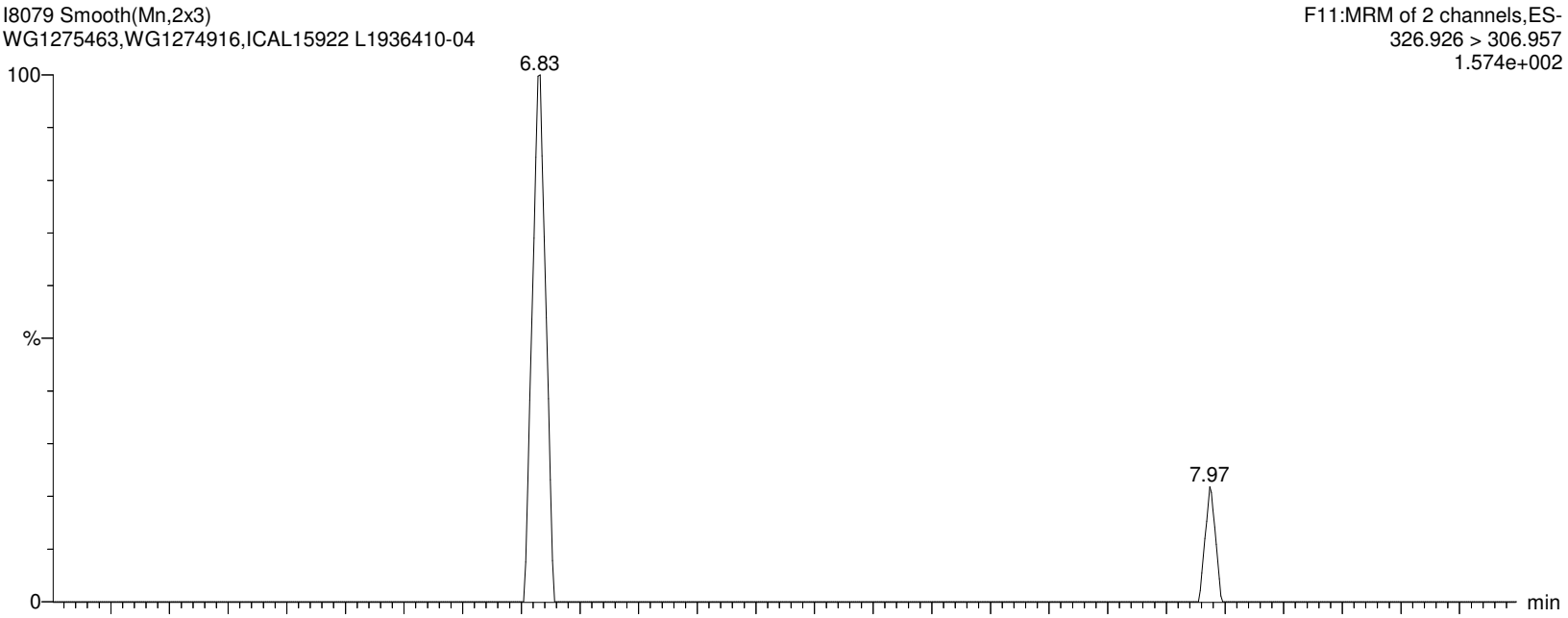


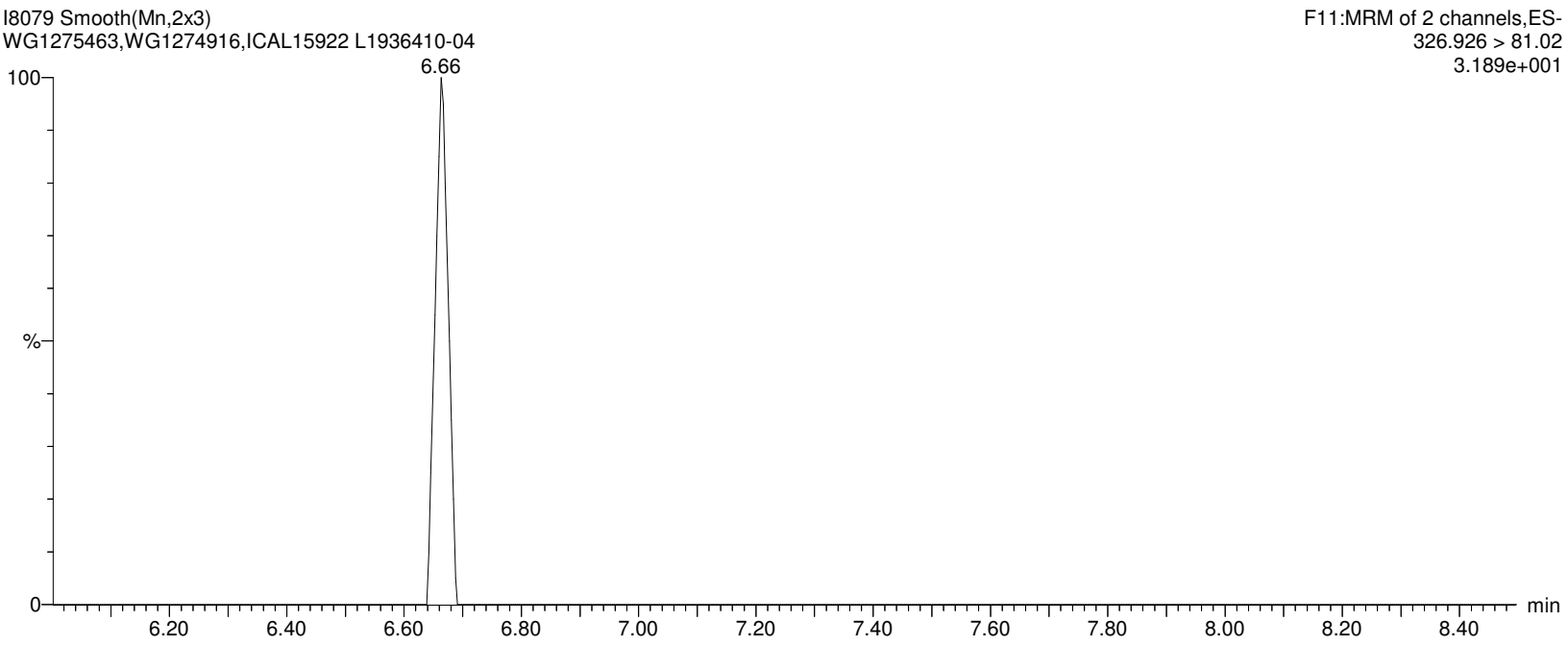
all concentration units in (ng/mL)

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4:2FTS



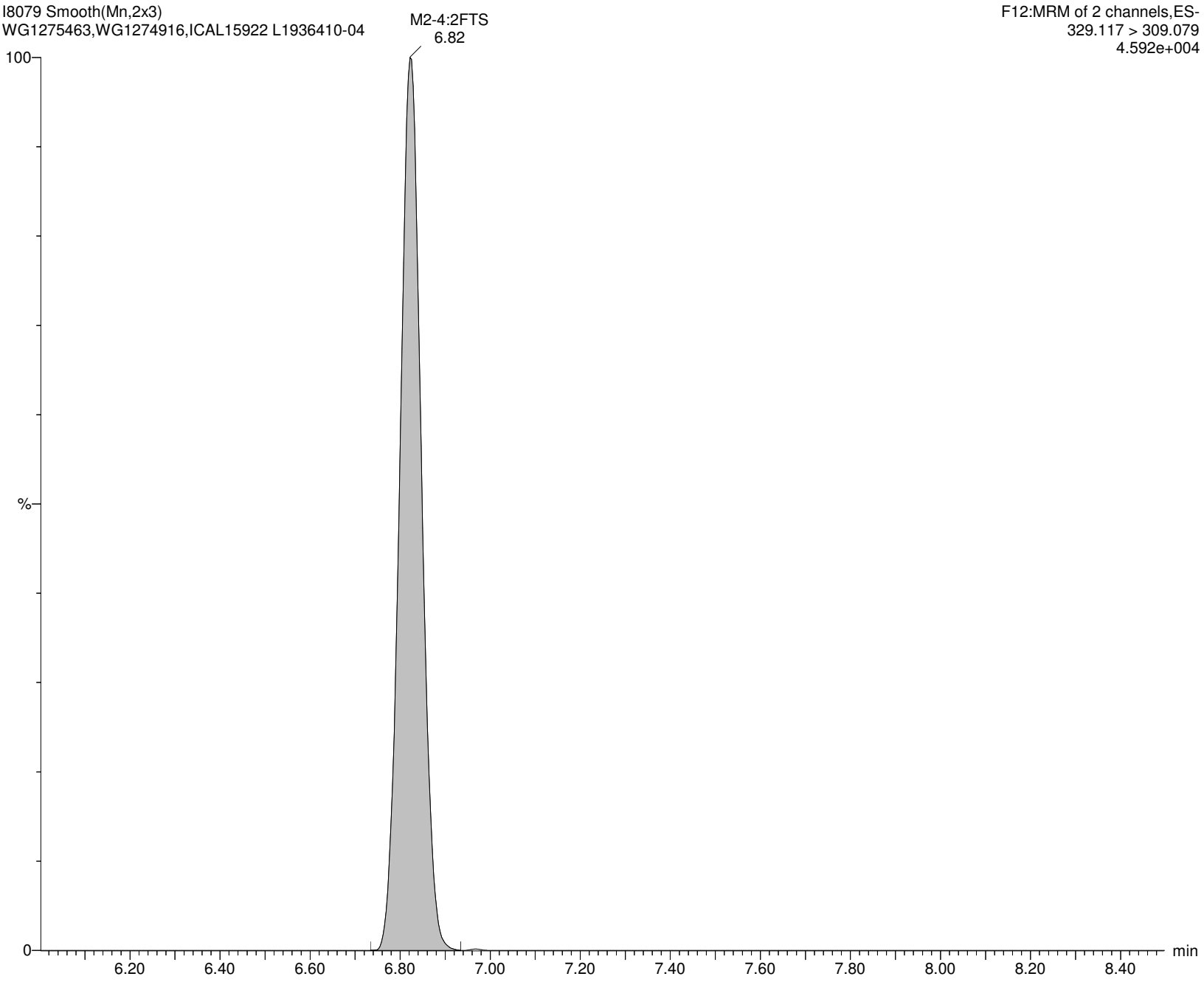


all concentration units in (ng/mL)

Alpha Analytical Inc.
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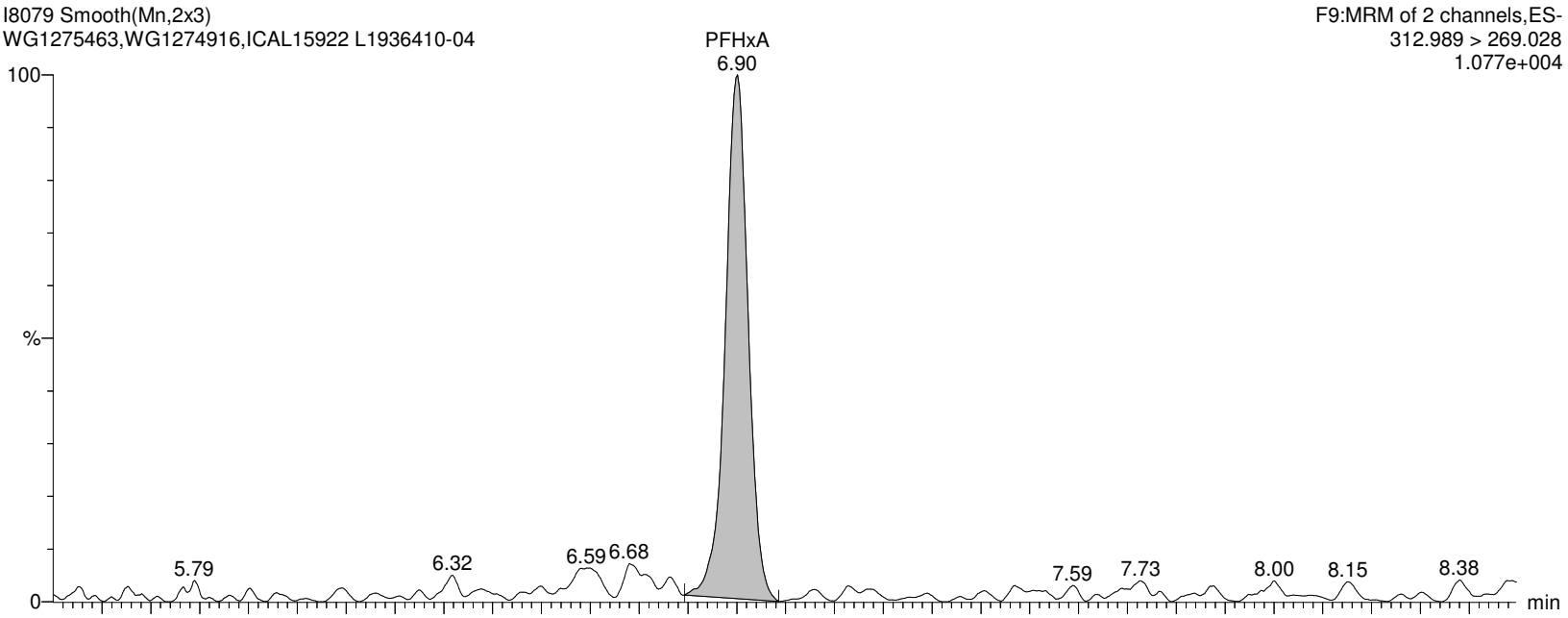


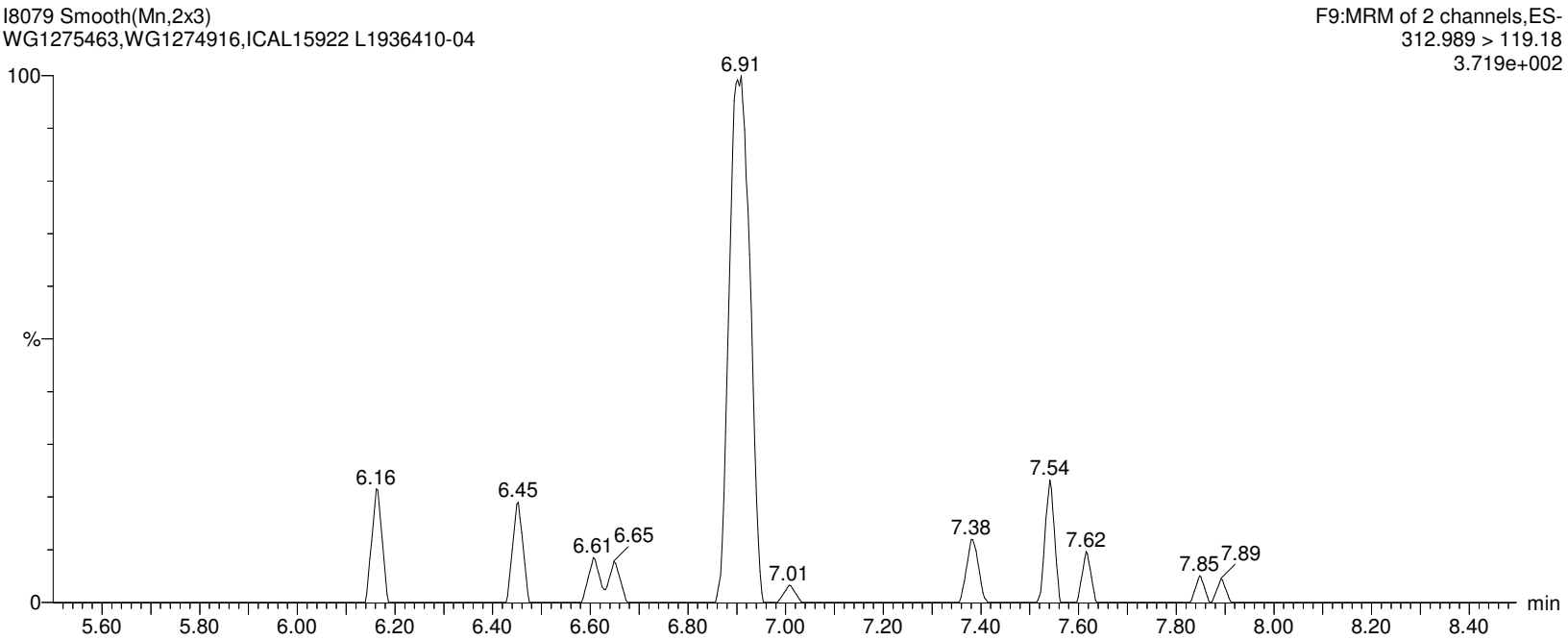
all concentration units in (ng/mL)

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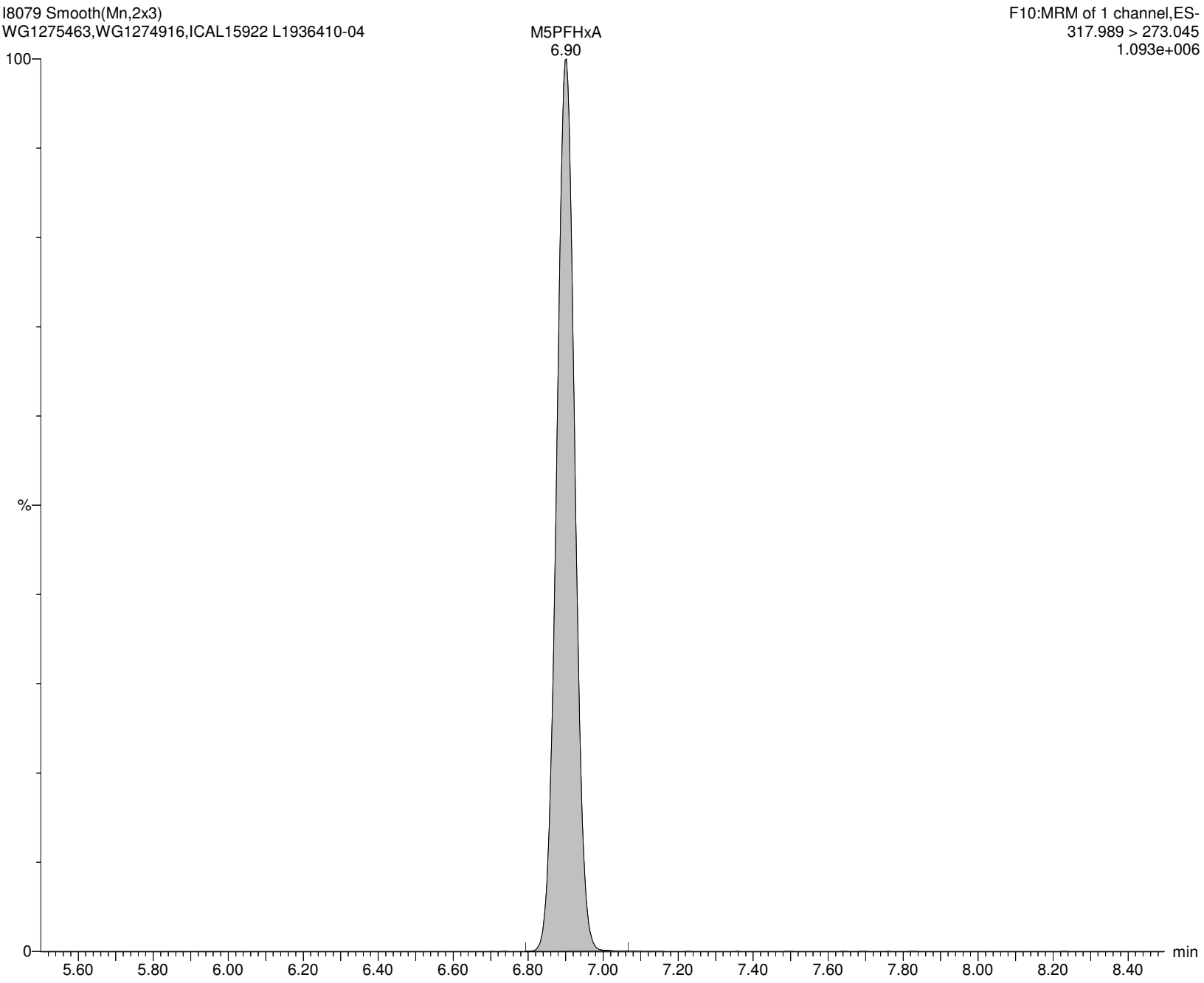


all concentration units in (ng/mL)

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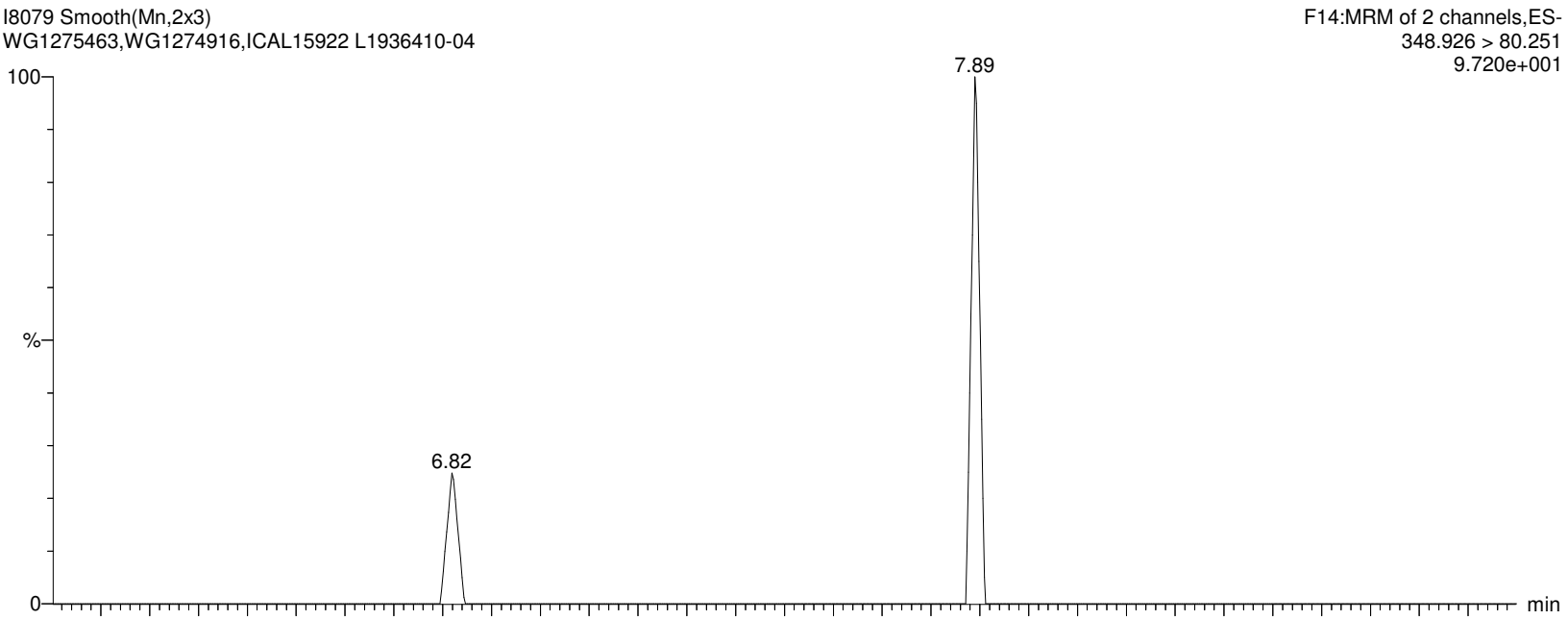


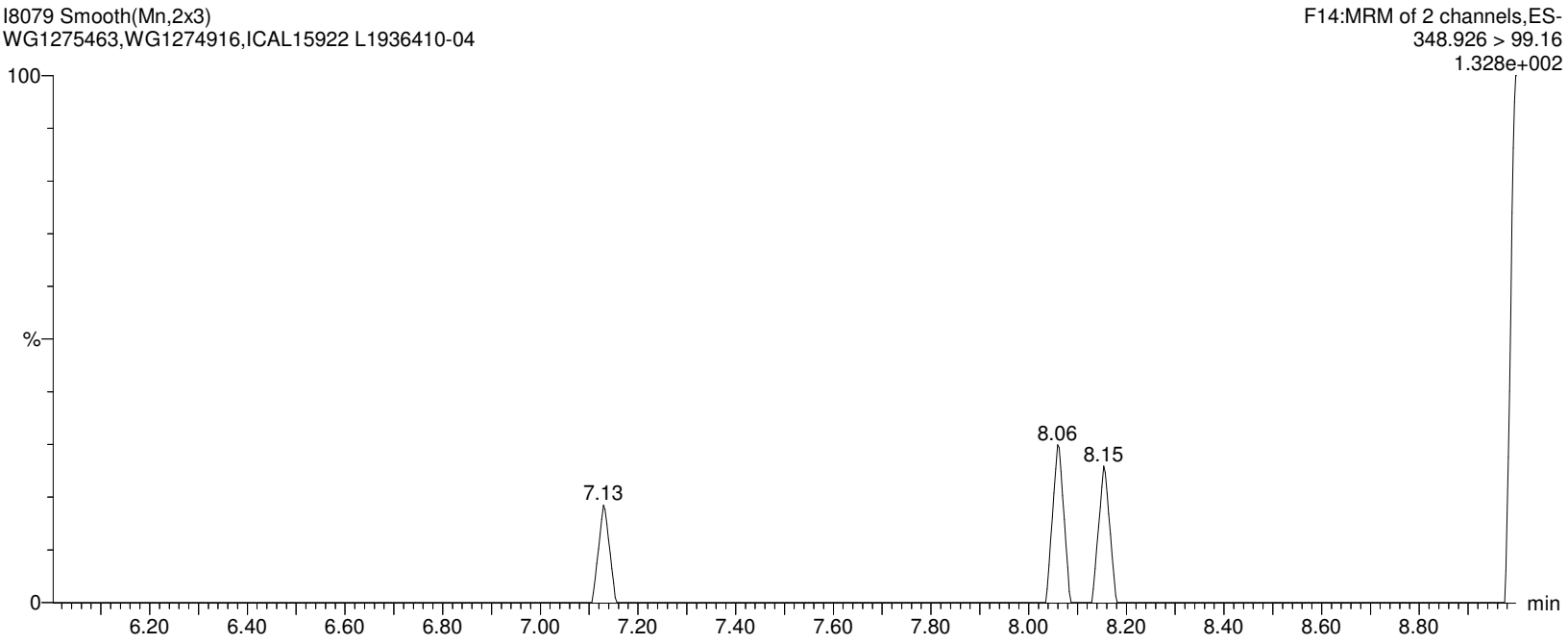
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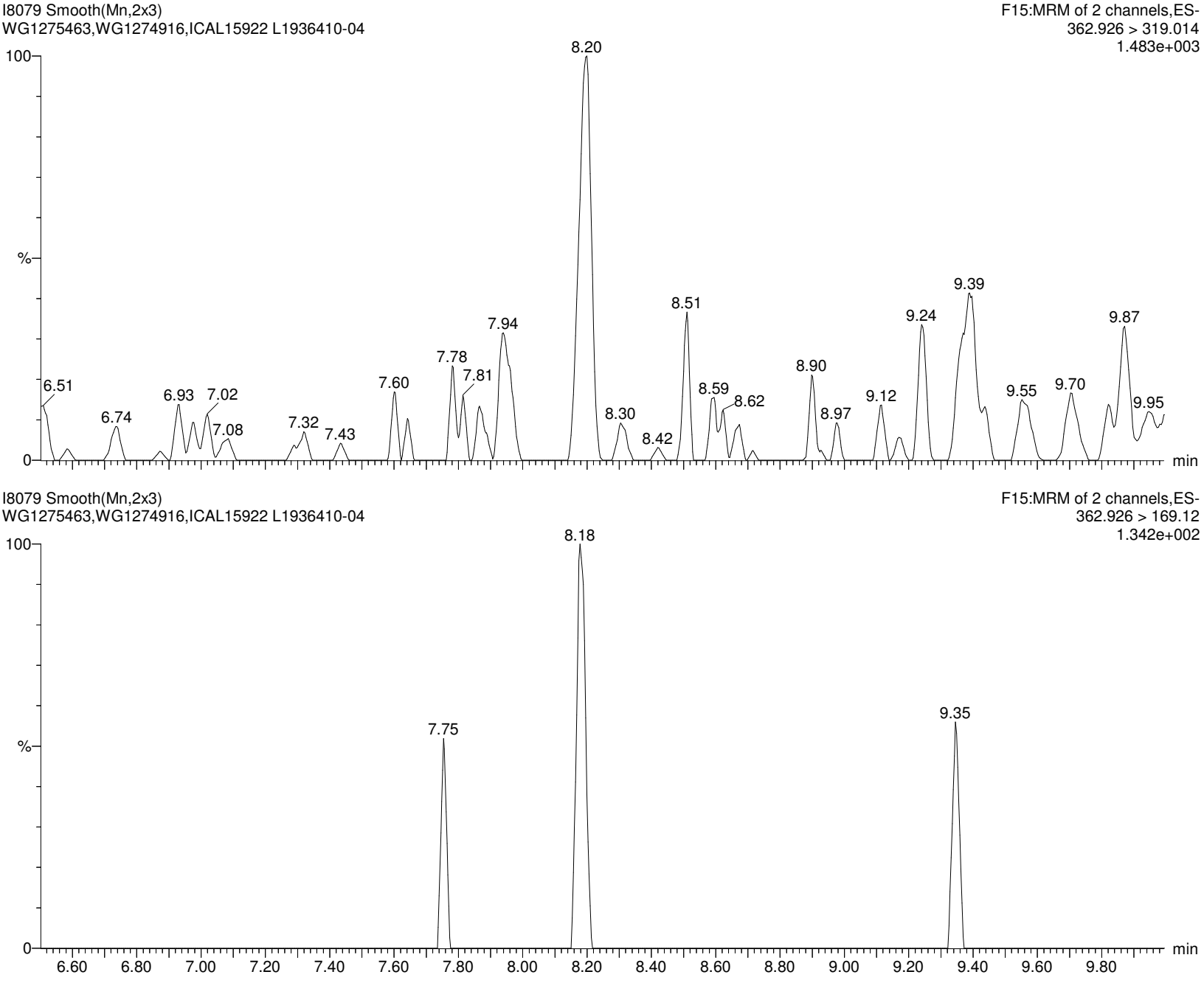


all concentration units in (ng/mL)

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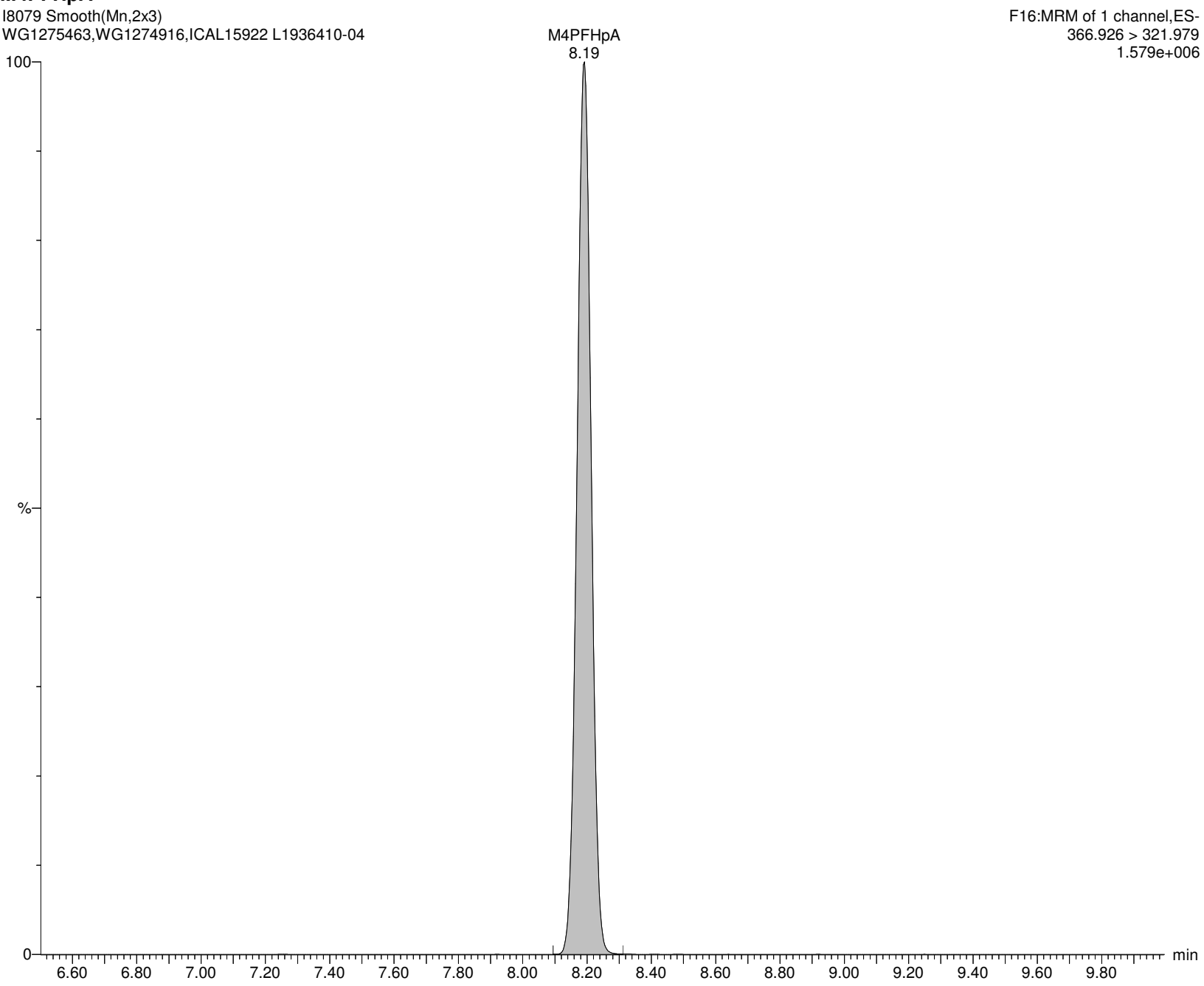


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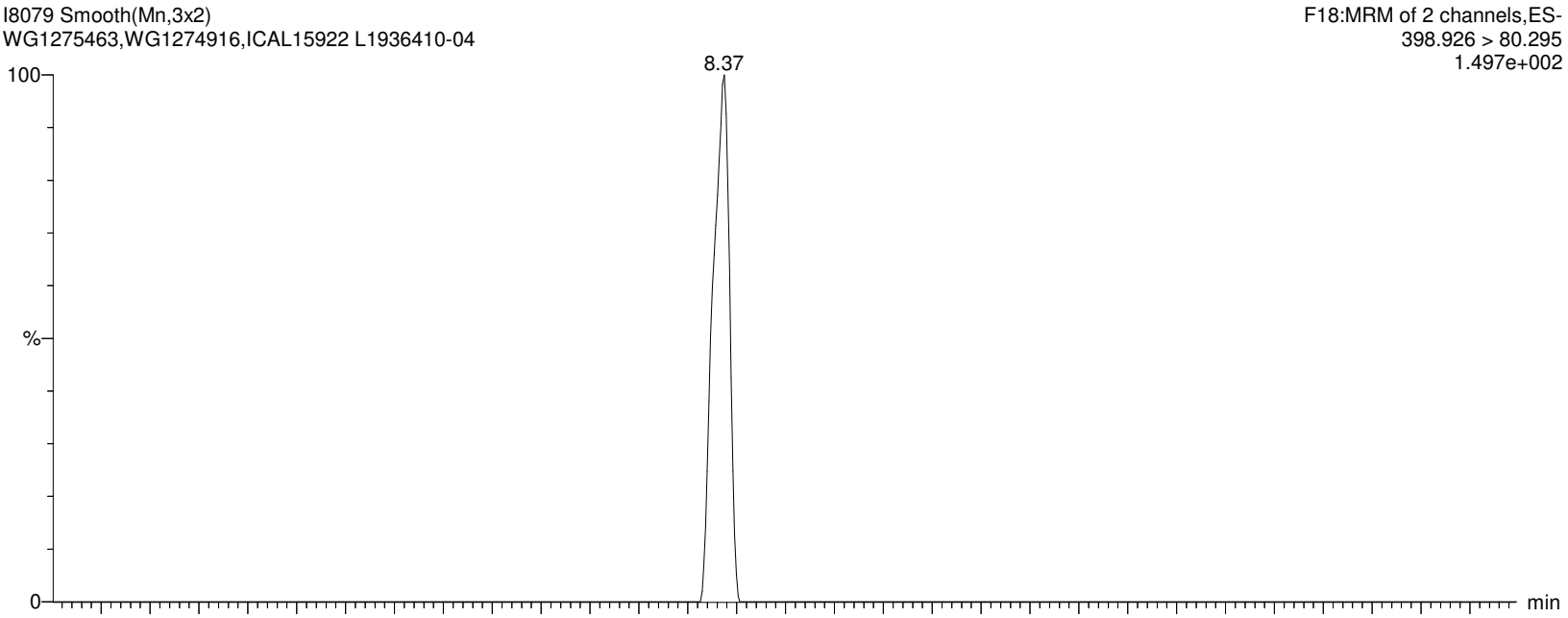


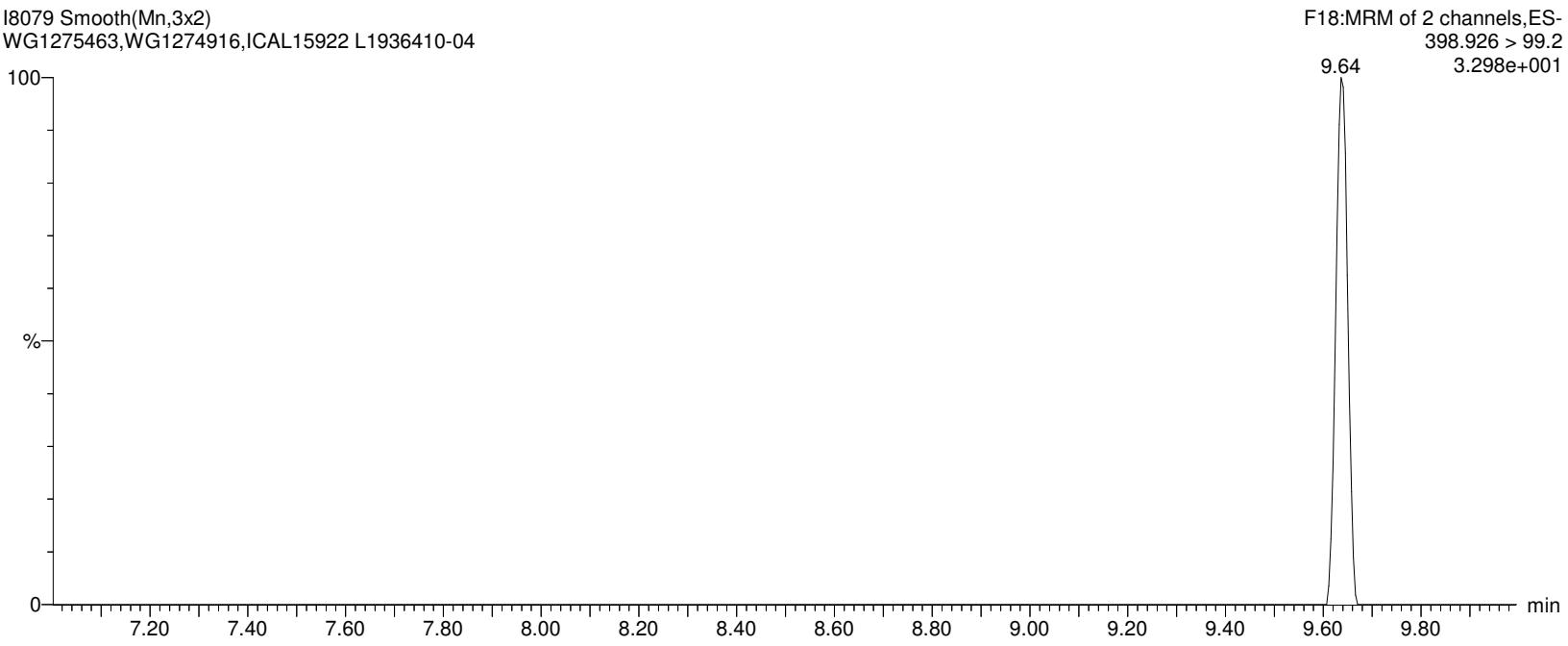
all concentration units in (ng/mL)

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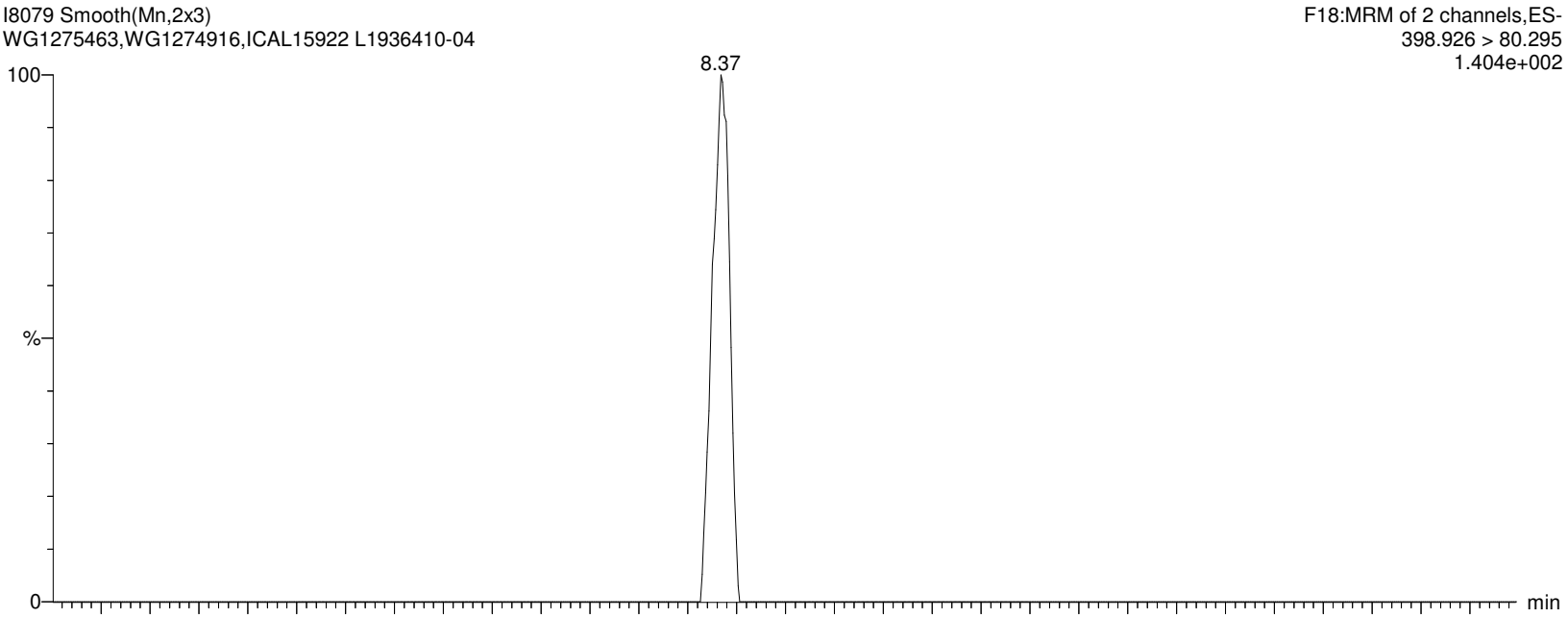


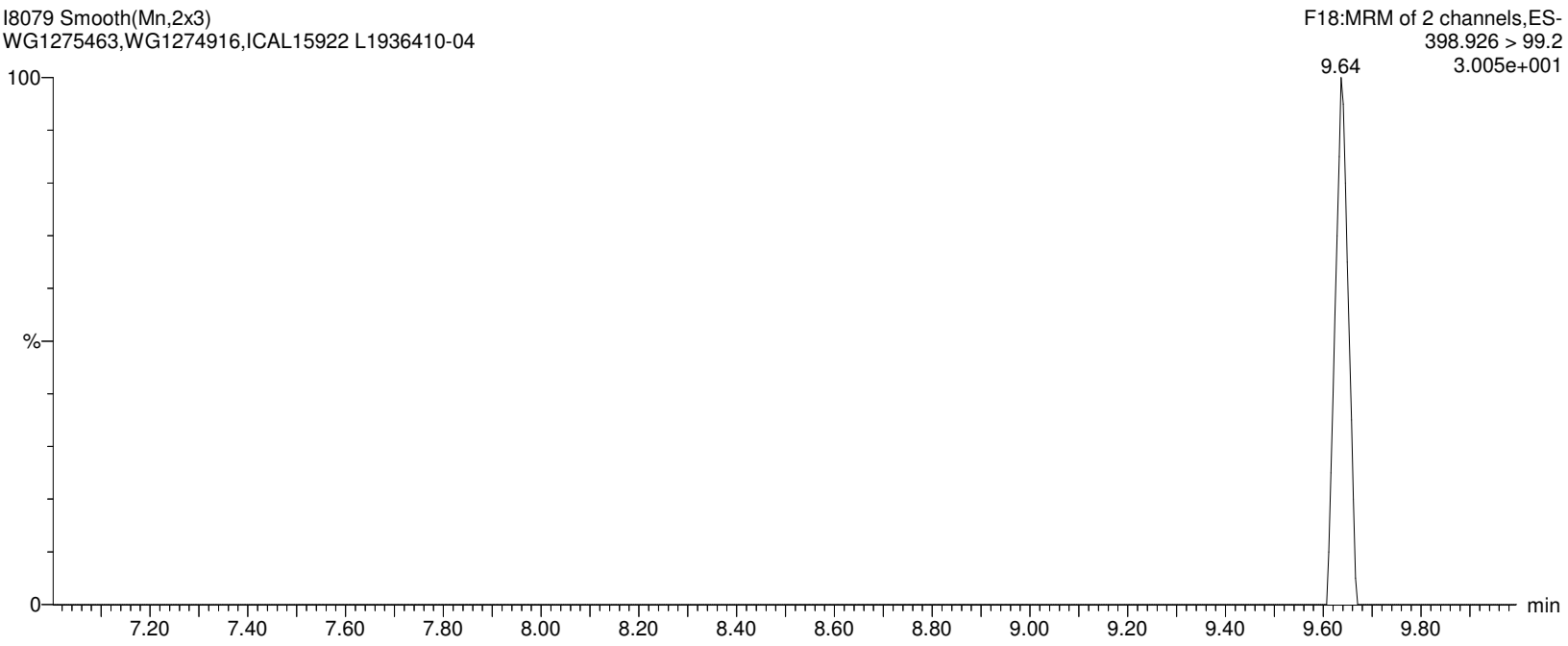
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L-PFHxS



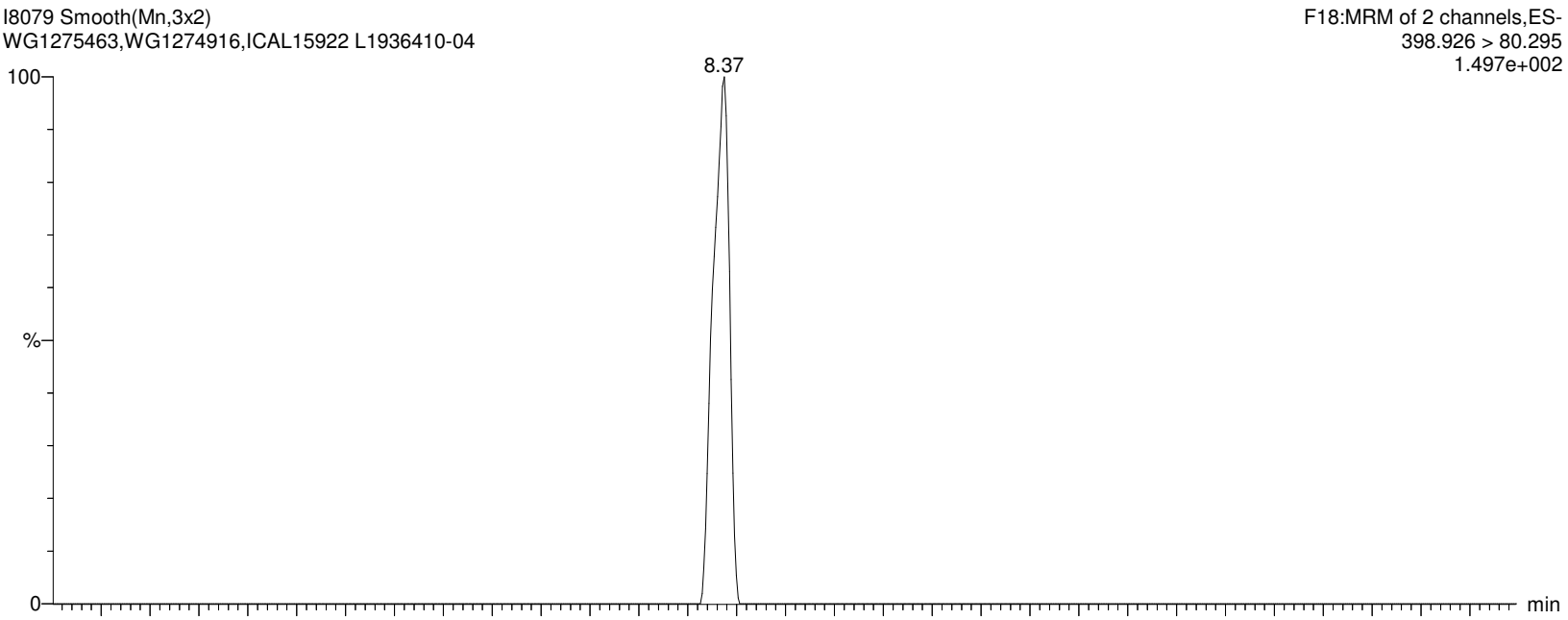


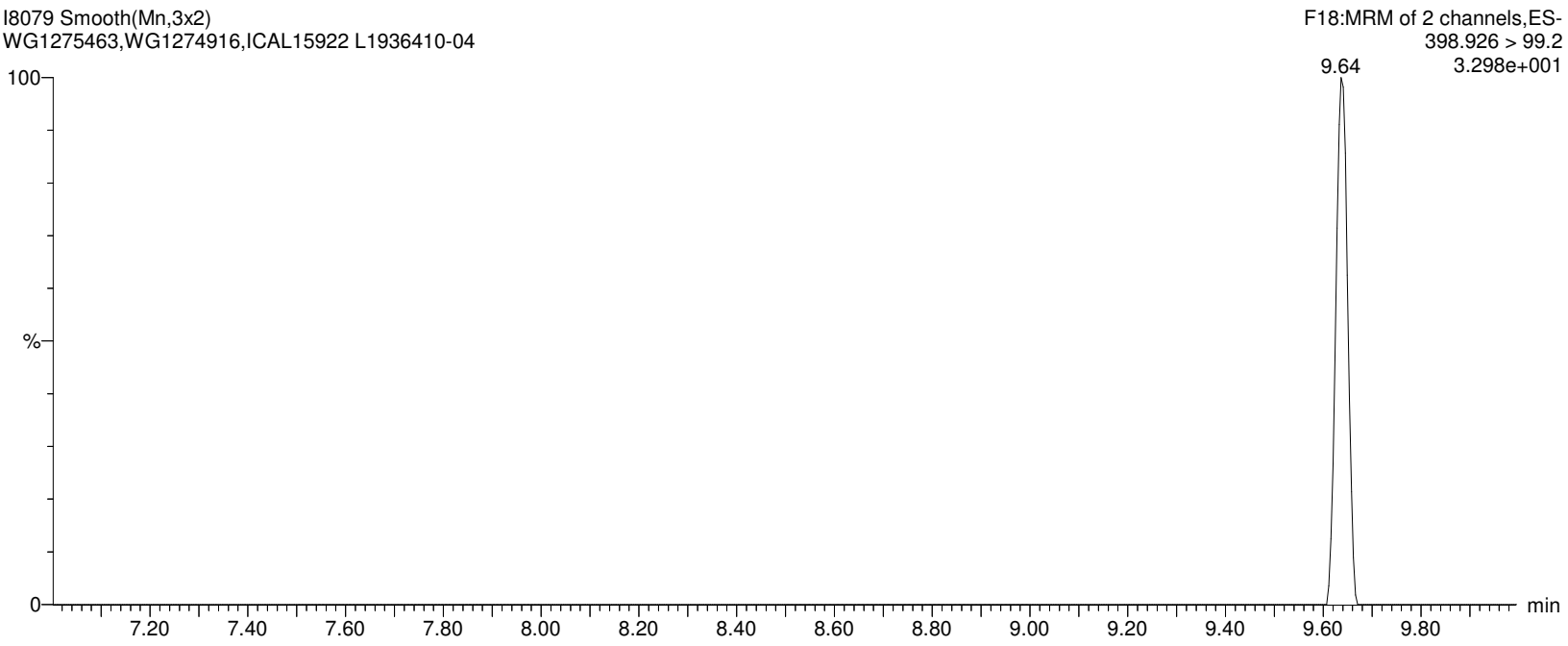
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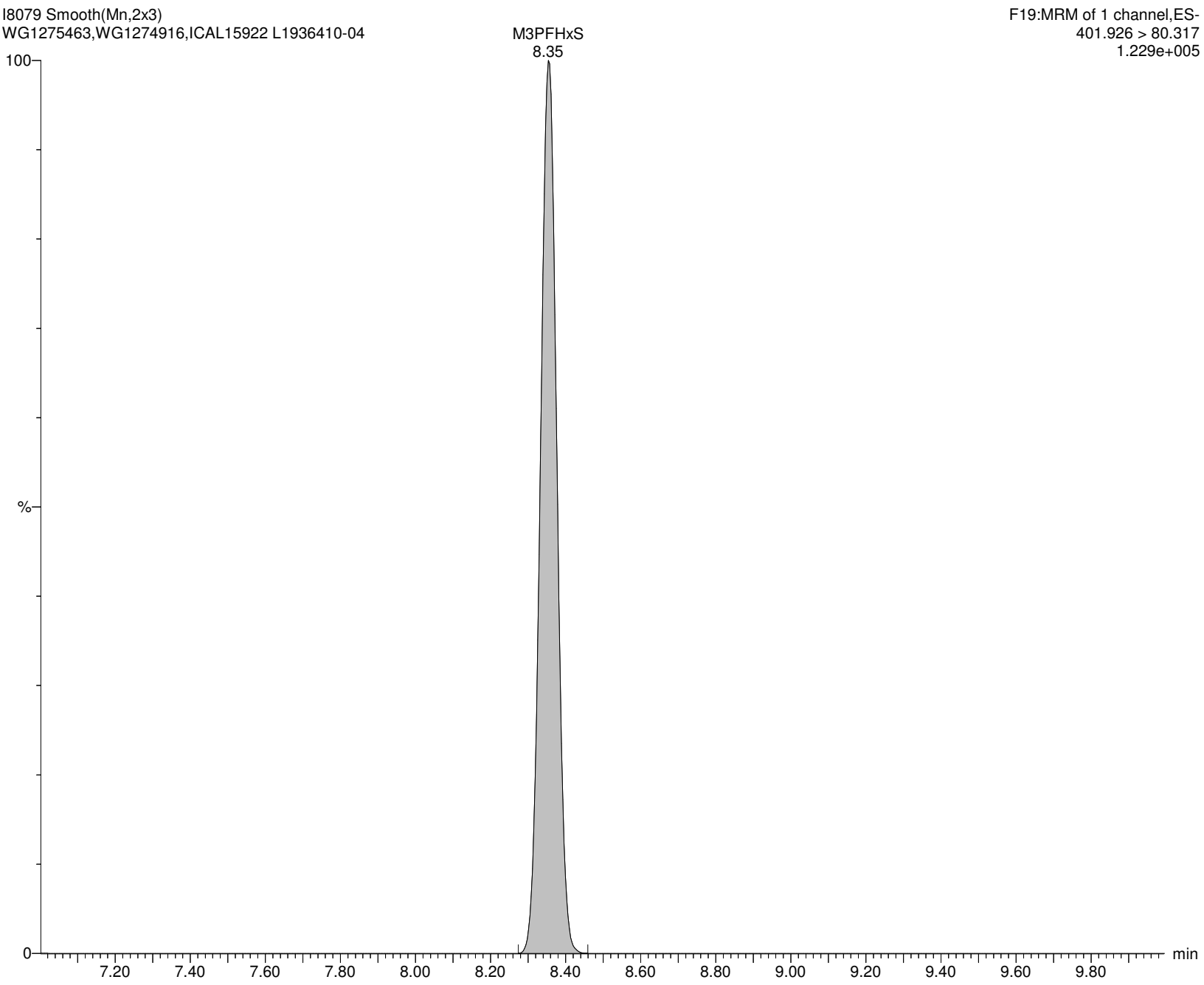


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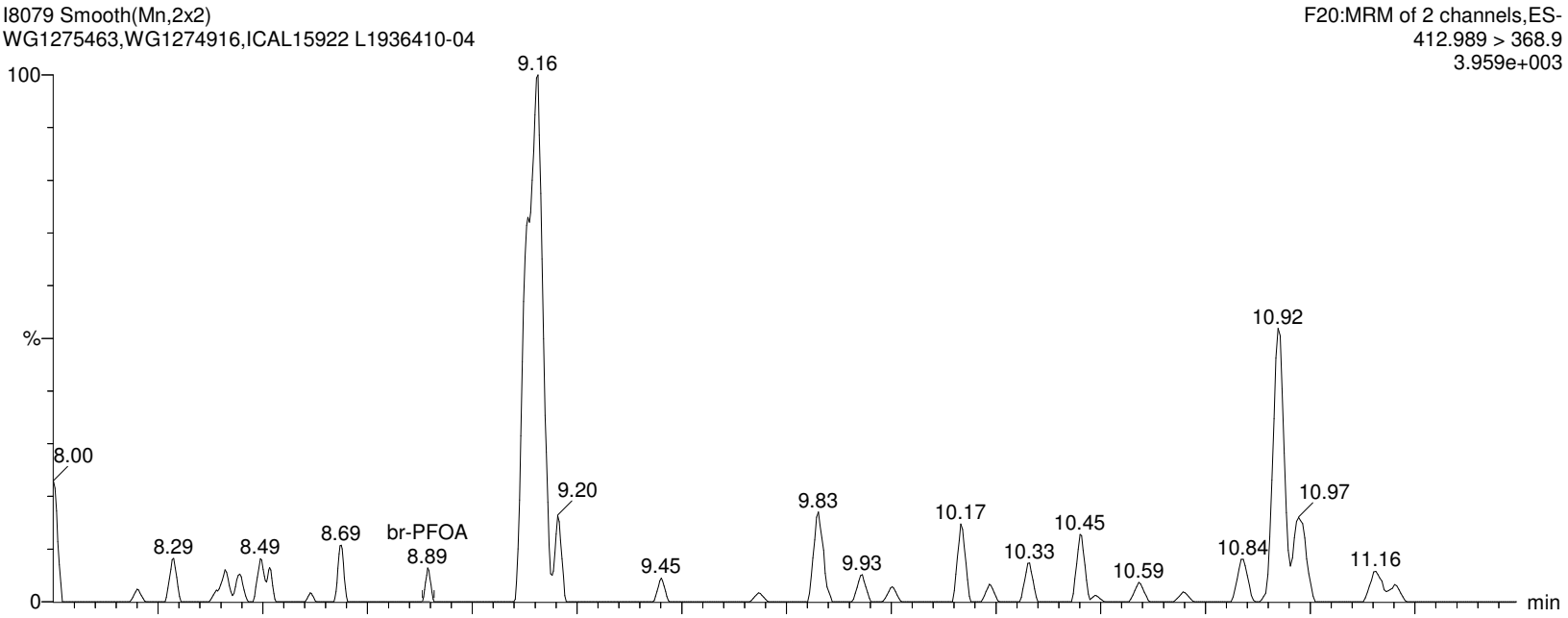


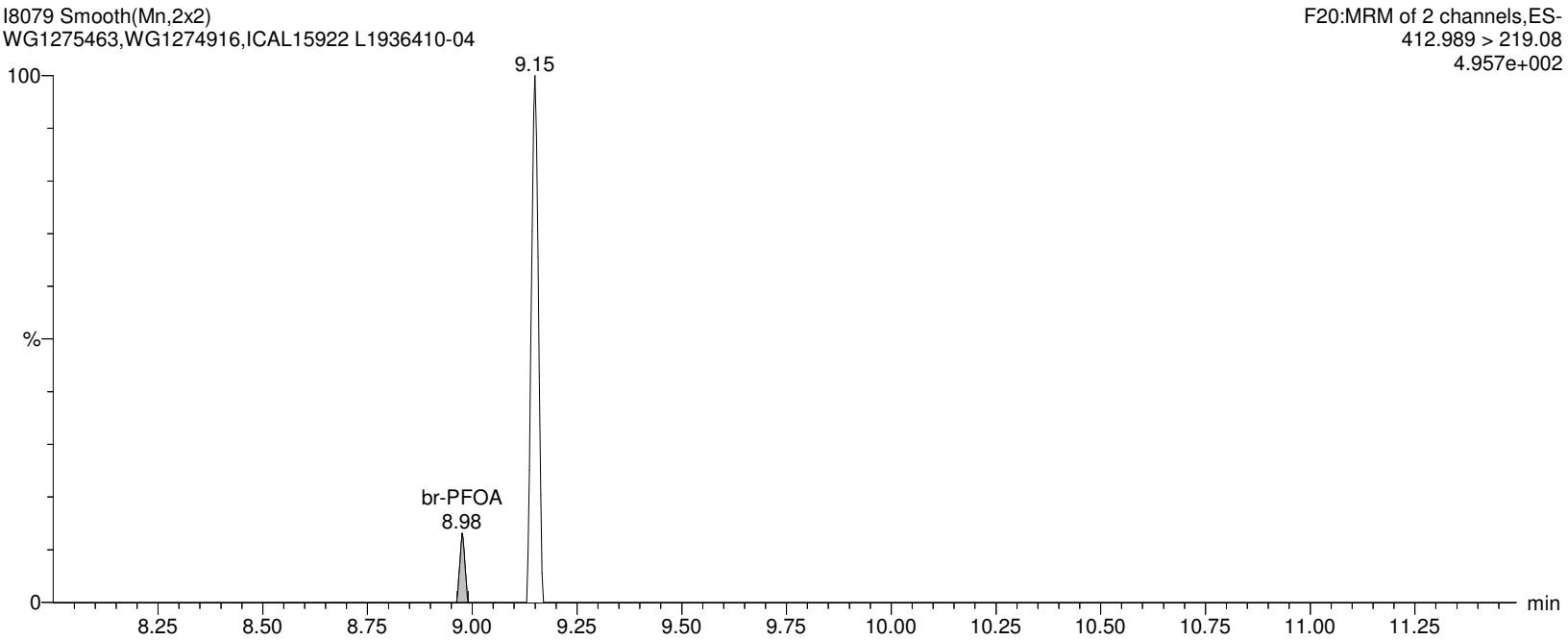
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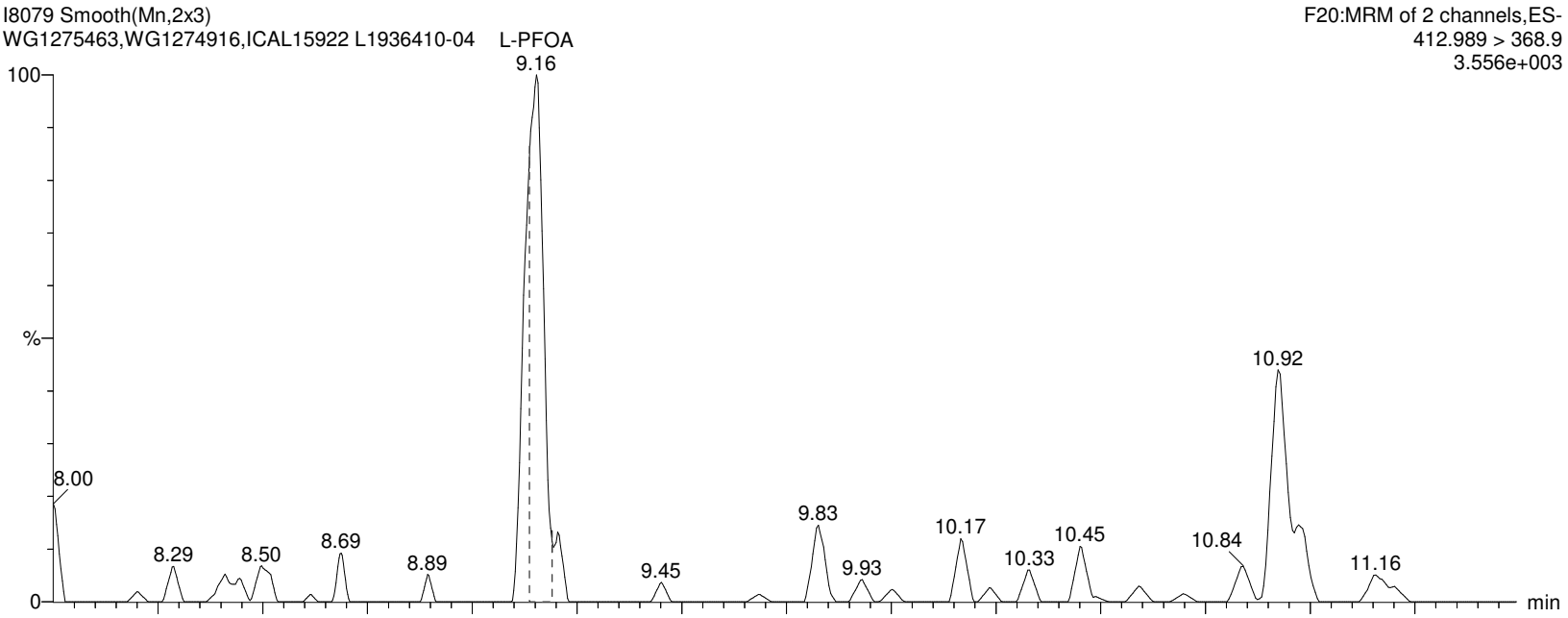


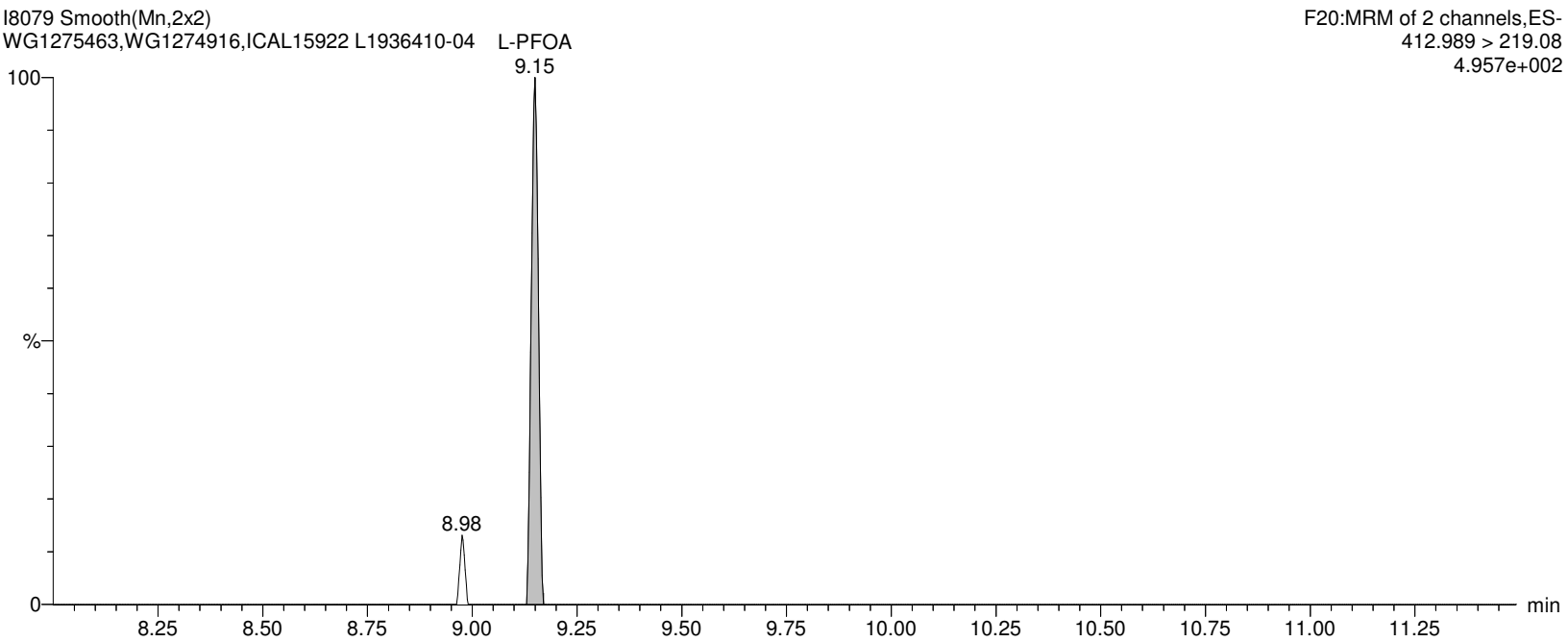
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L-PFOA



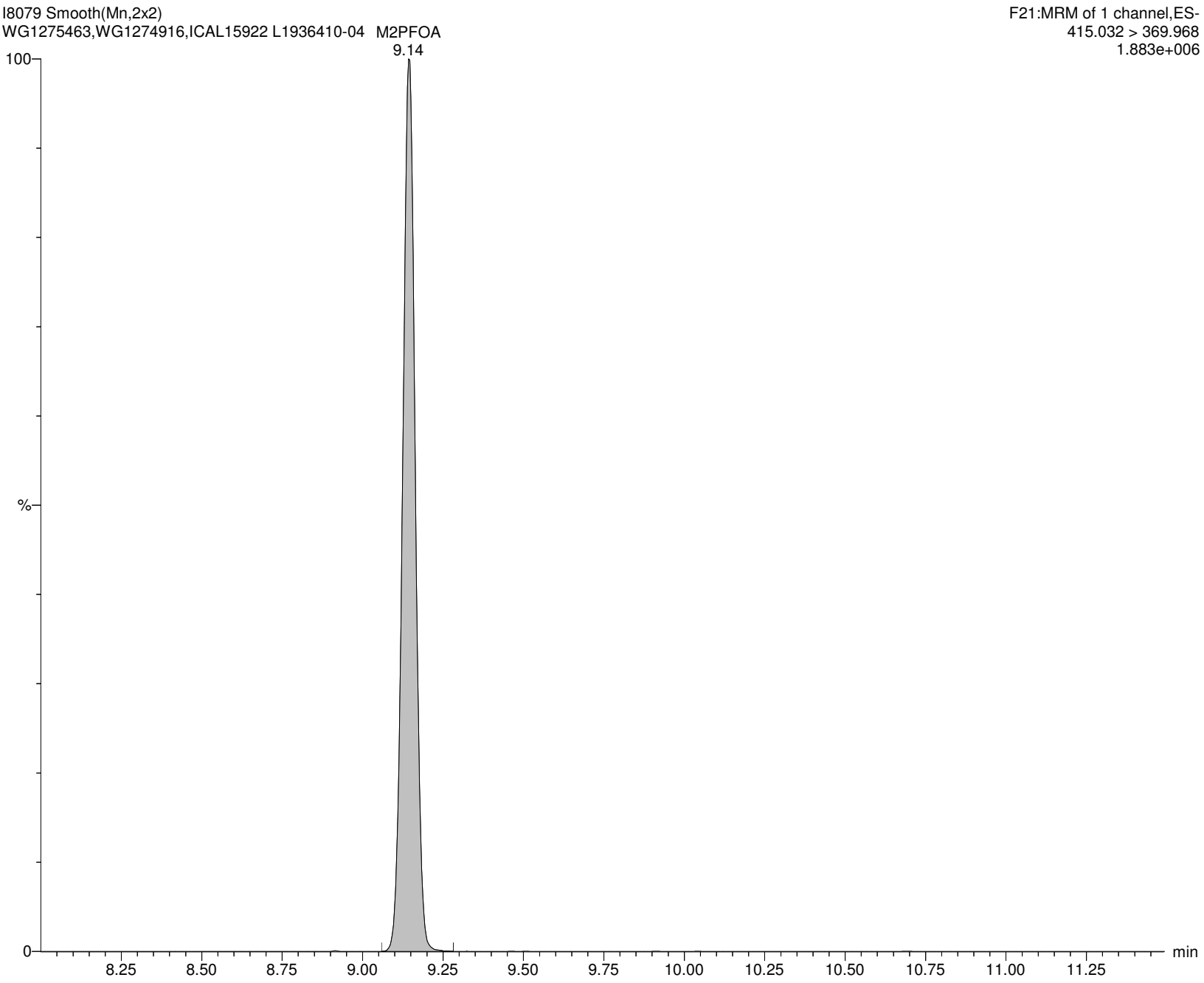


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User: LCMS02:JW
Vial: 1:D,1
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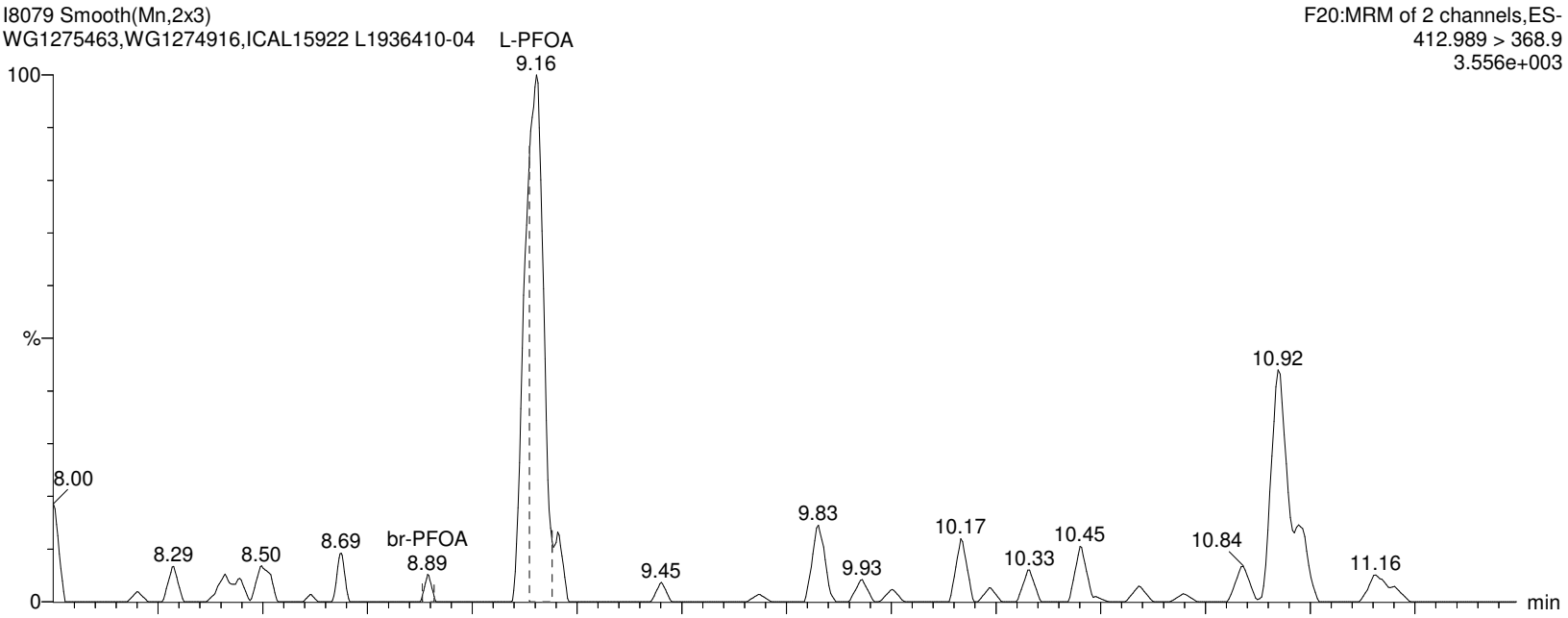


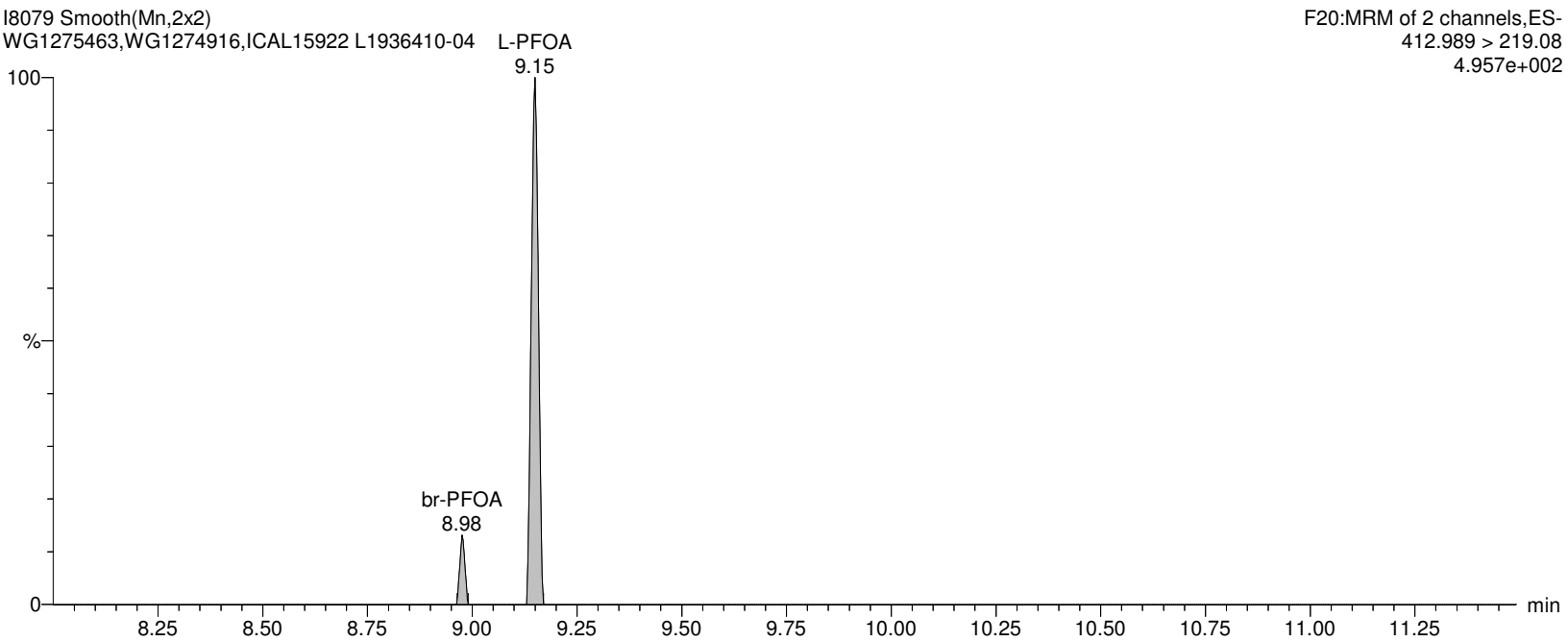
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, August 23, 2019 09:51:17 Eastern Daylight Time
Printed: Friday, August 23, 2019 09:51:34 Eastern Daylight Time

Name: I8079
ID: L1936410-04
Date: 22-Aug-2019
Time: 15:31:17
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User: LCMS02:JW
Vial: 1:D,1
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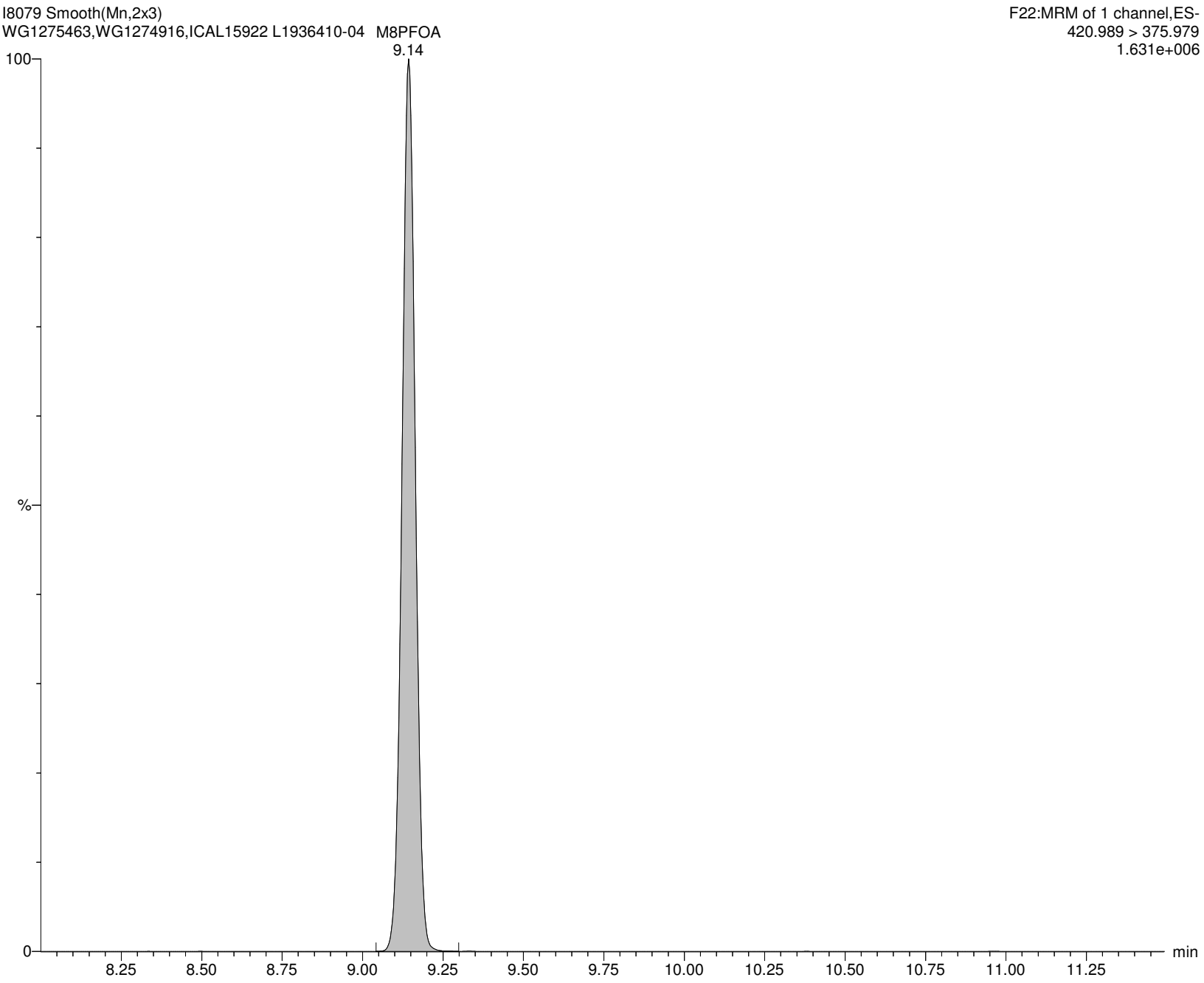


all concentration units in (ng/mL)

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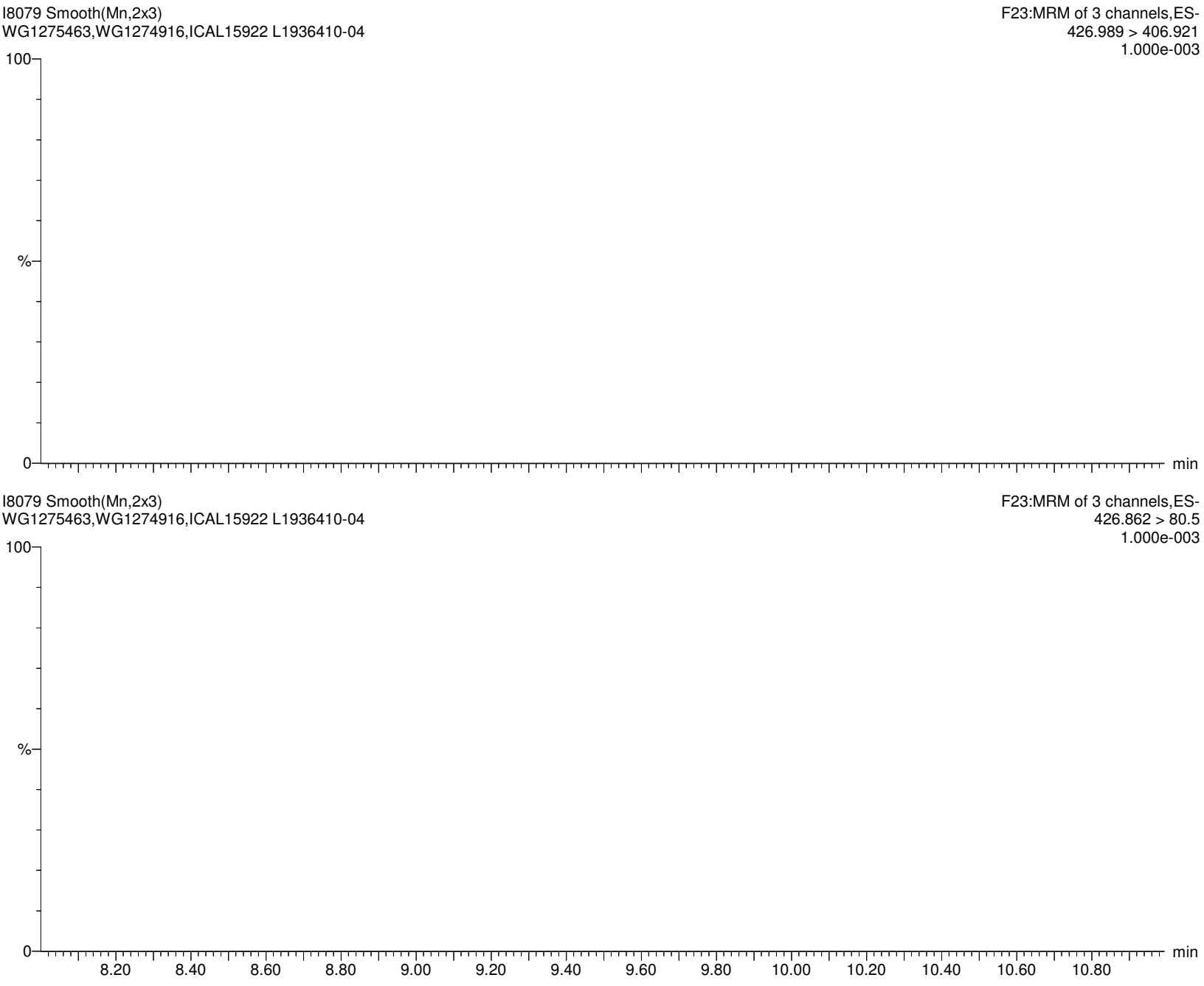


all concentration units in (ng/mL)

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6:2FTS

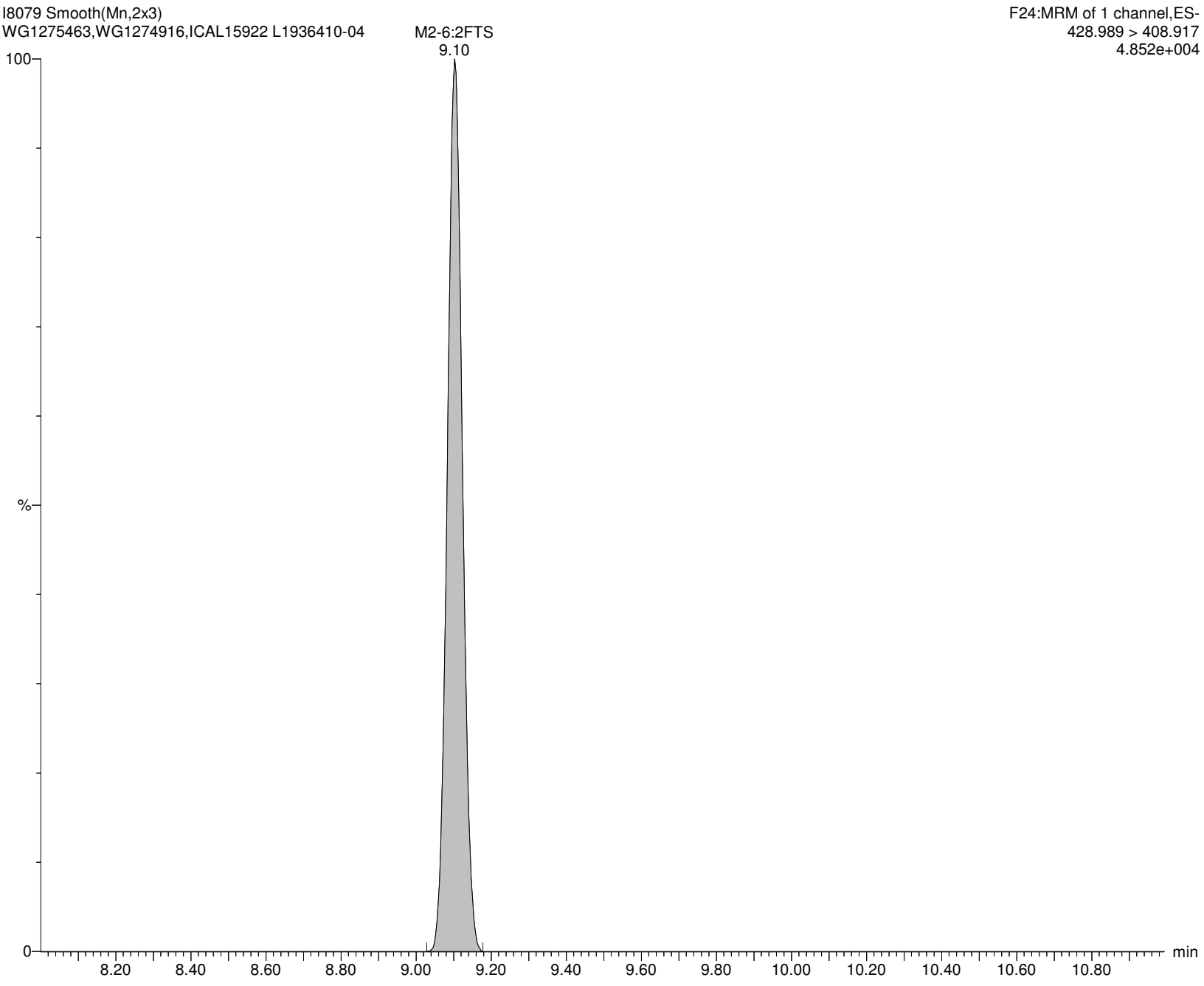


all concentration units in (ng/mL)

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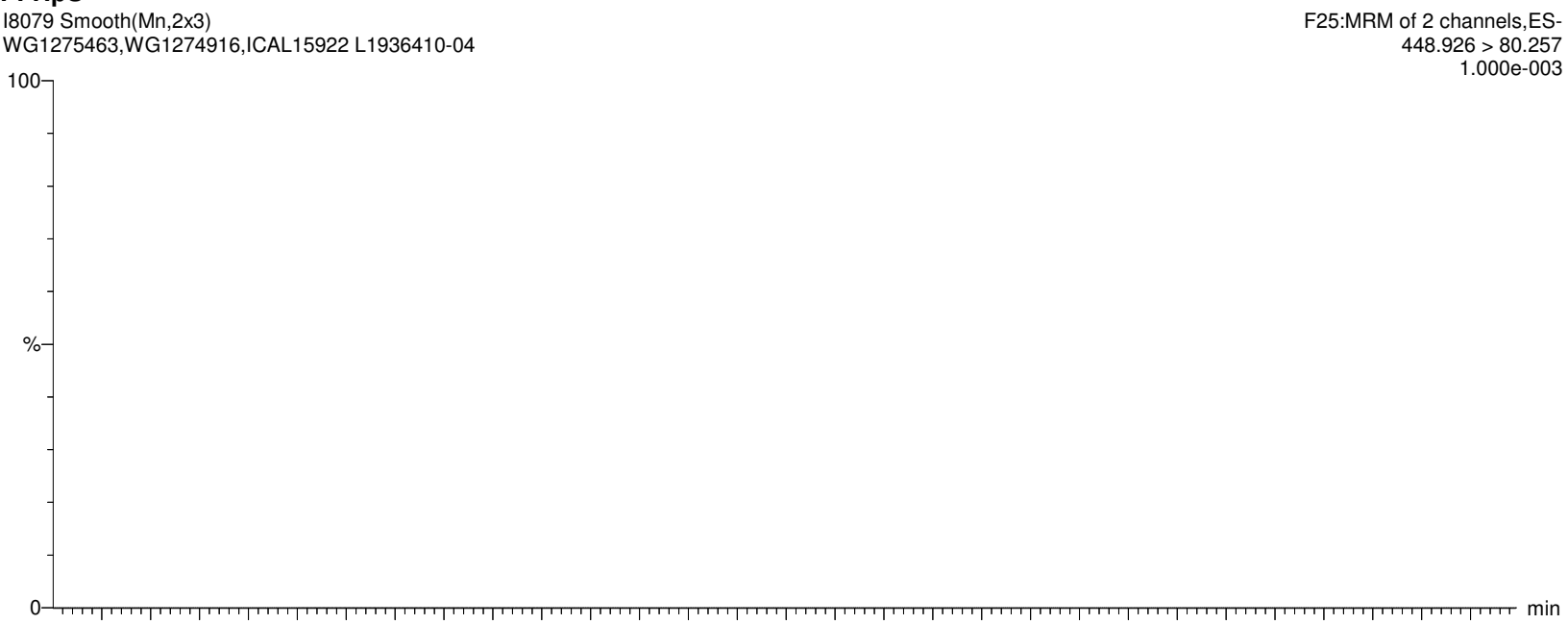


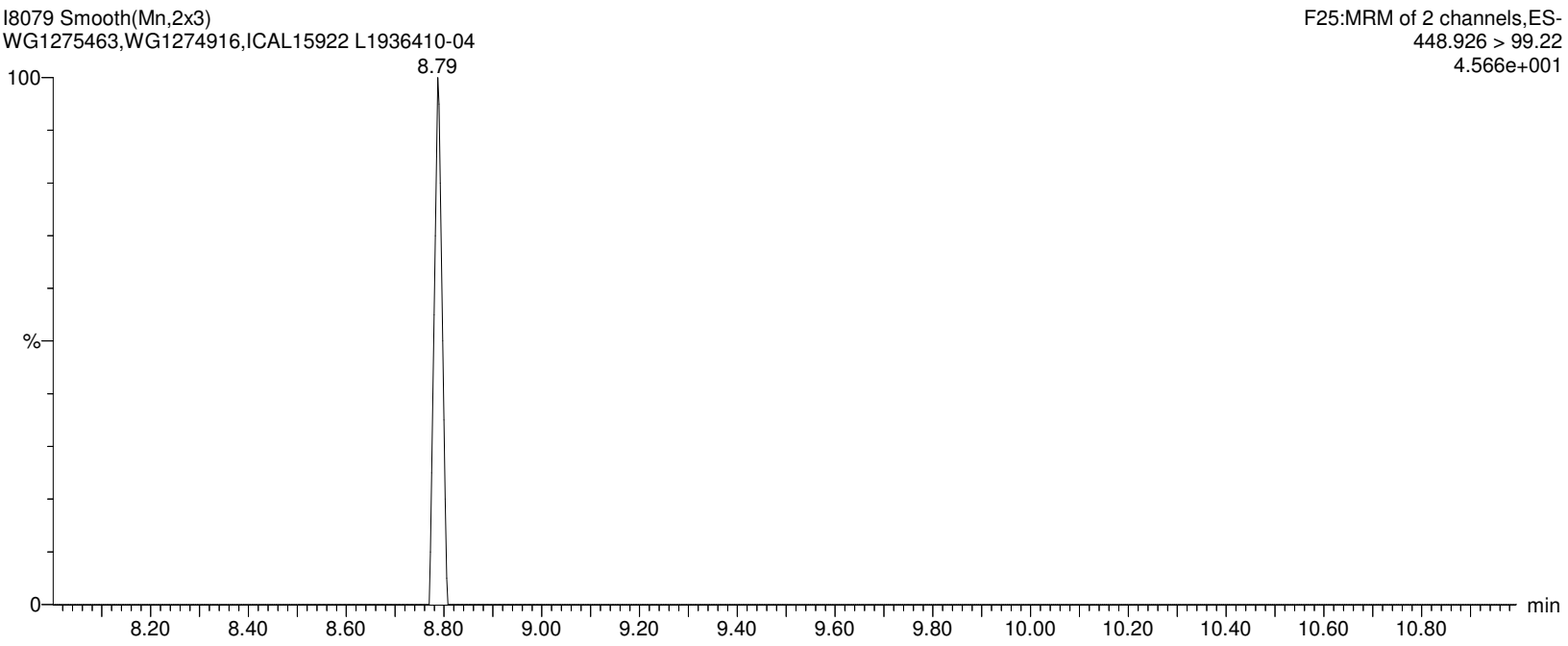
all concentration units in (ng/mL)

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PFHpS



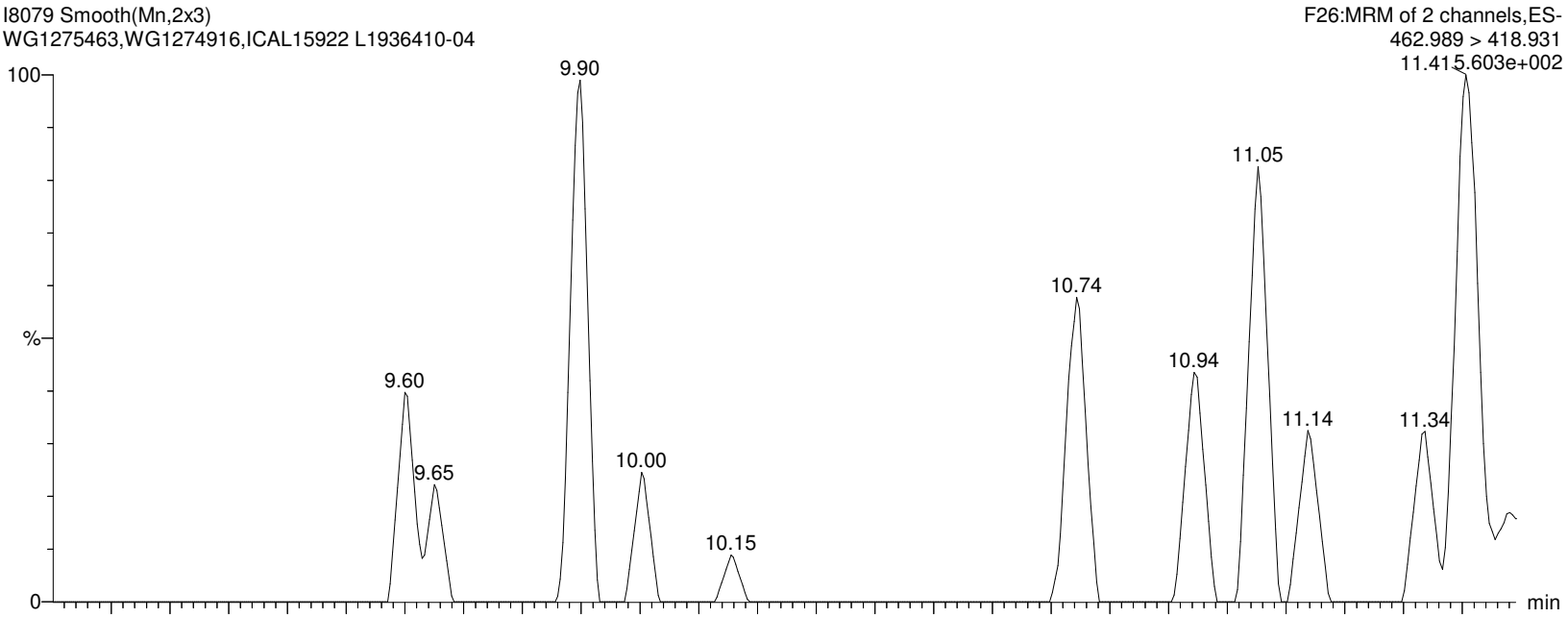


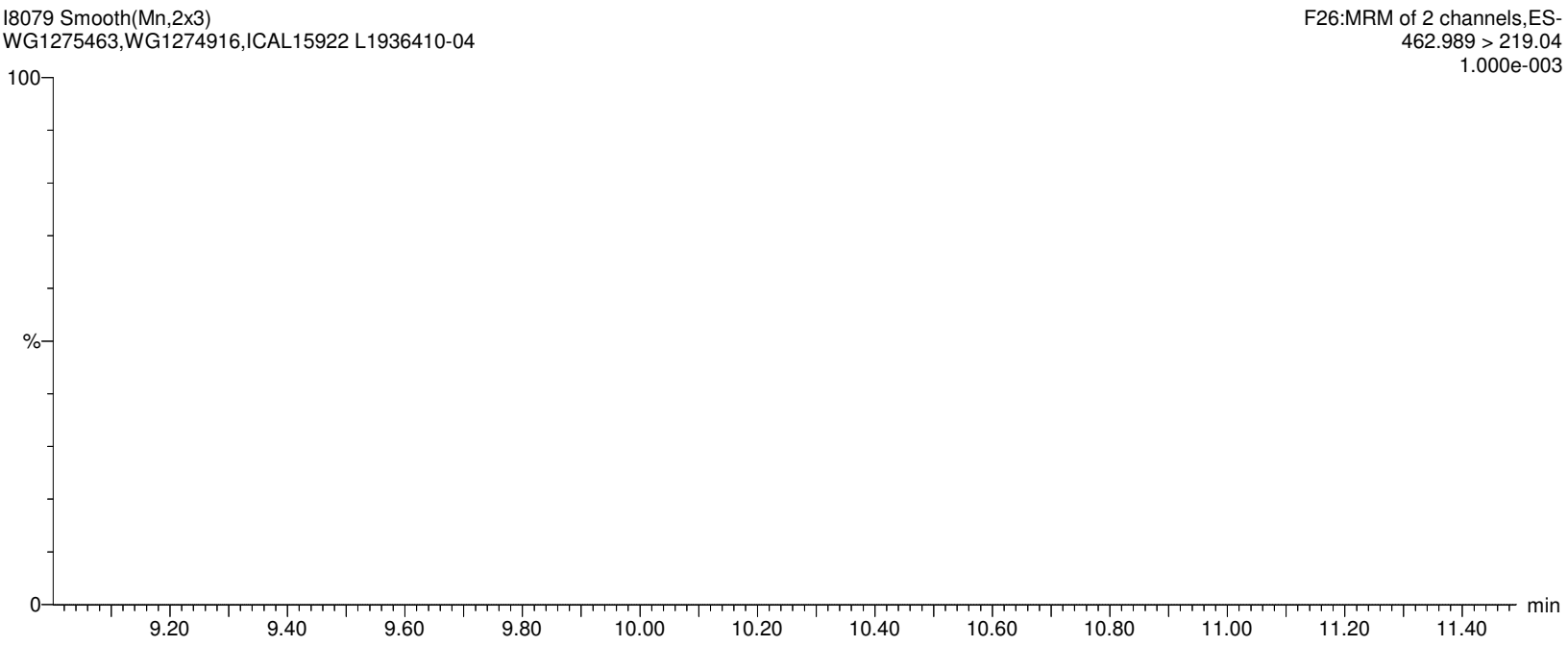
all concentration units in (ng/mL)

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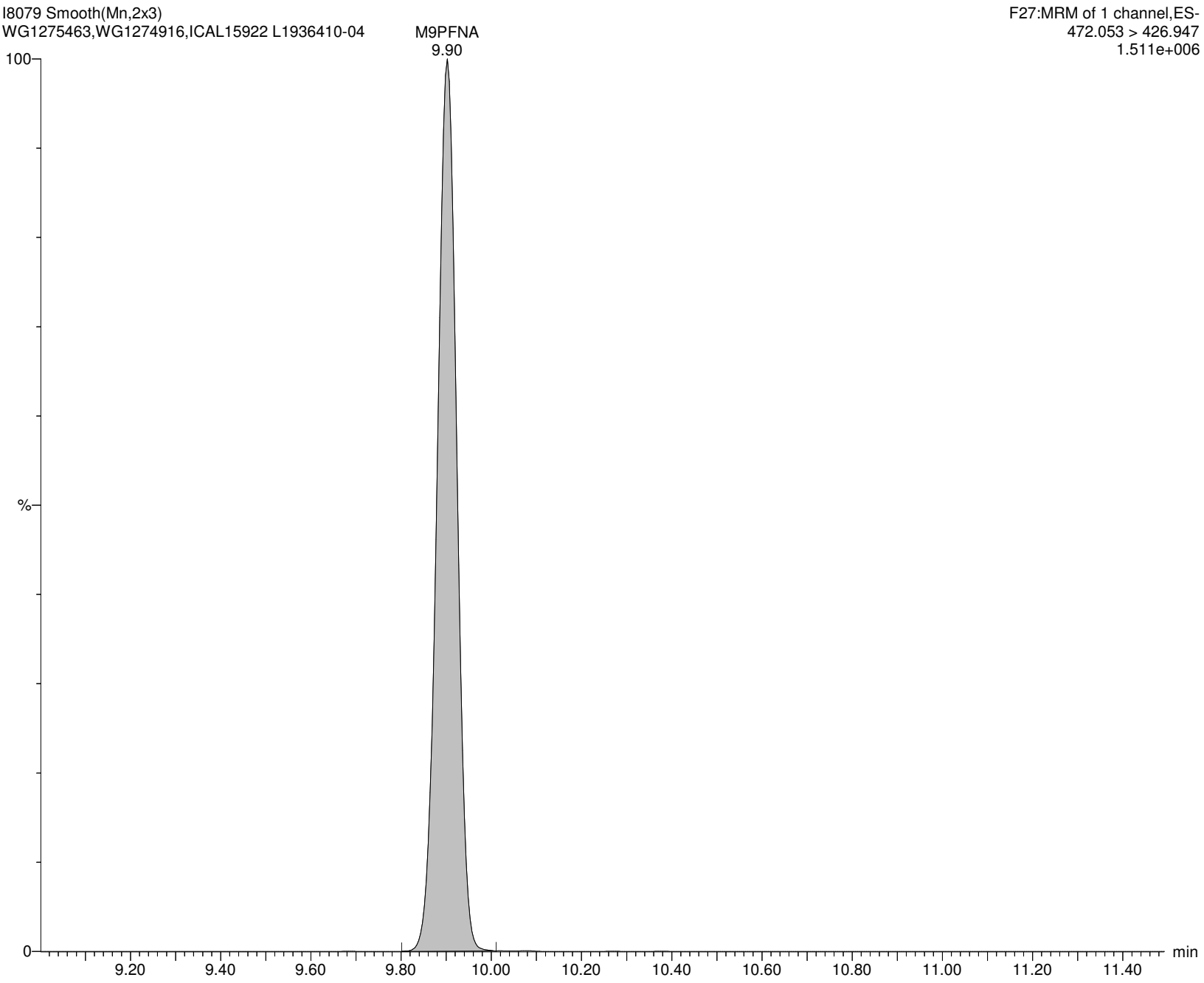


all concentration units in (ng/mL)

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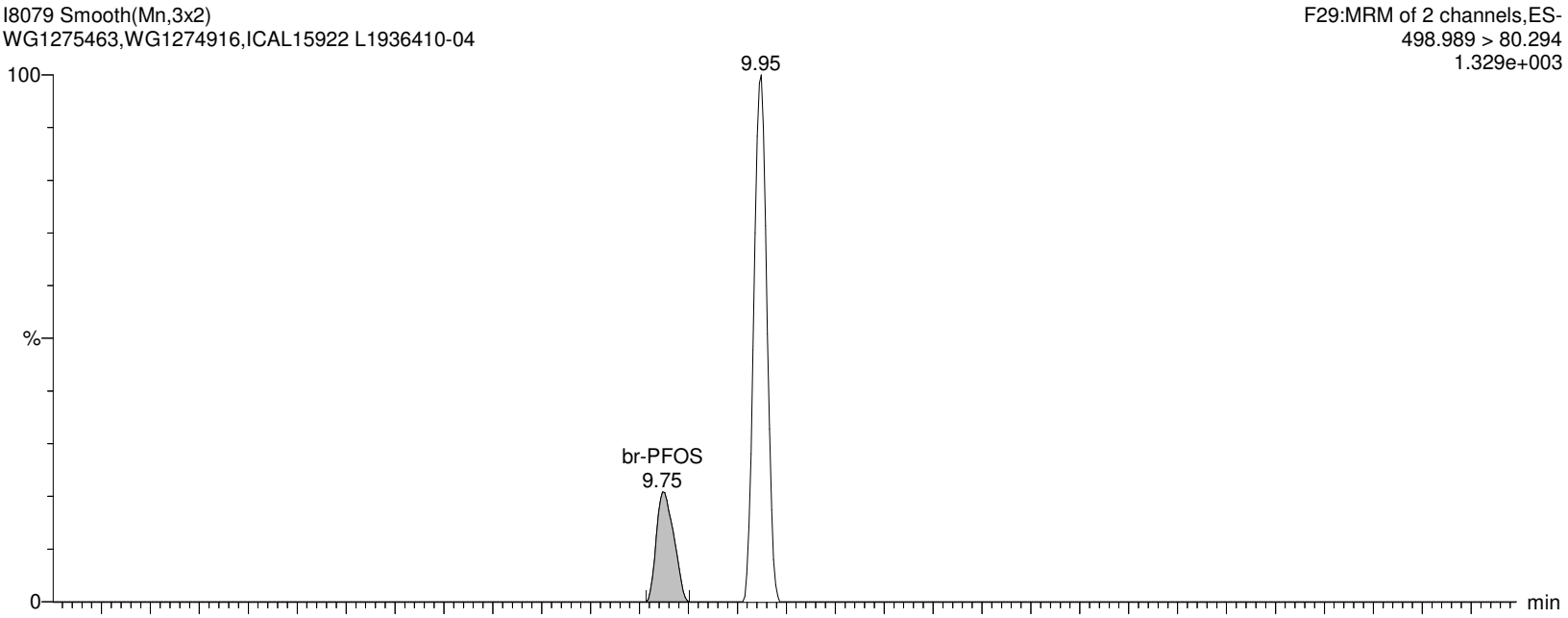


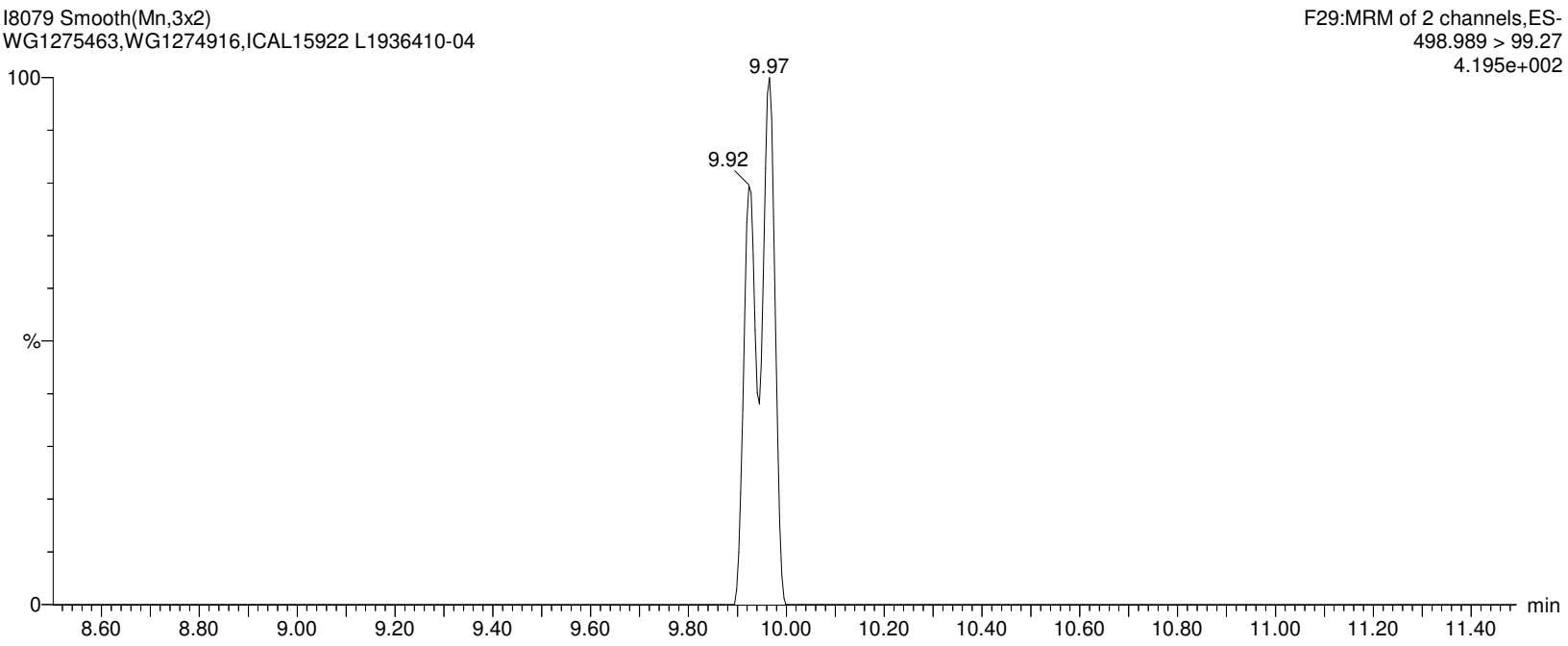
all concentration units in (ng/mL)

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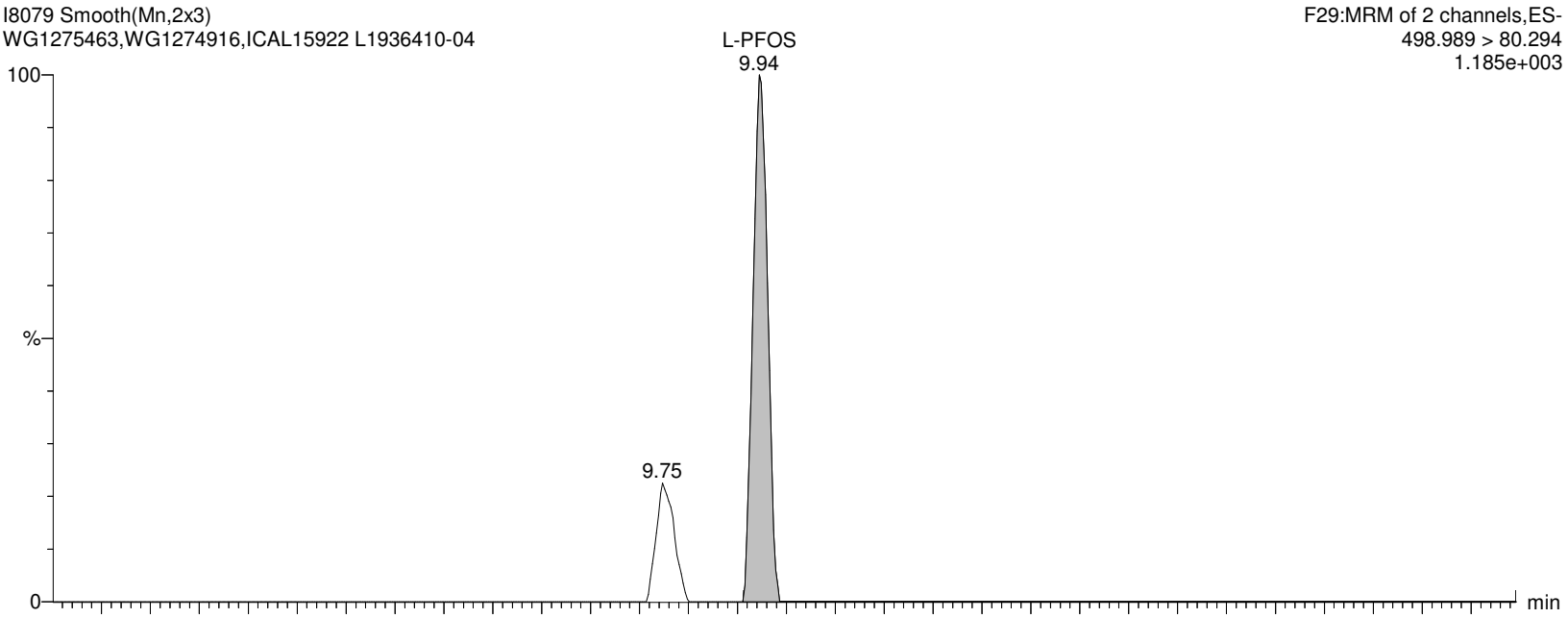


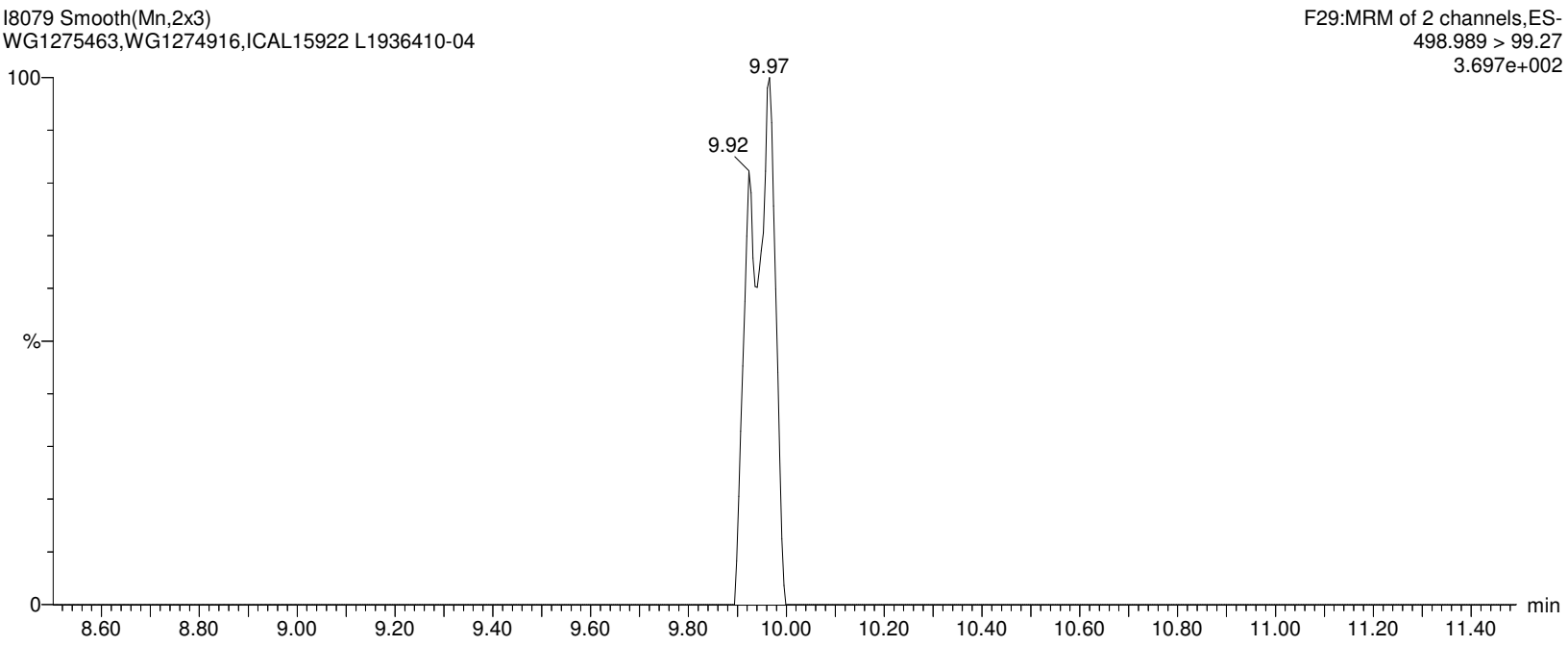
all concentration units in (ng/mL)

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L-PFOS



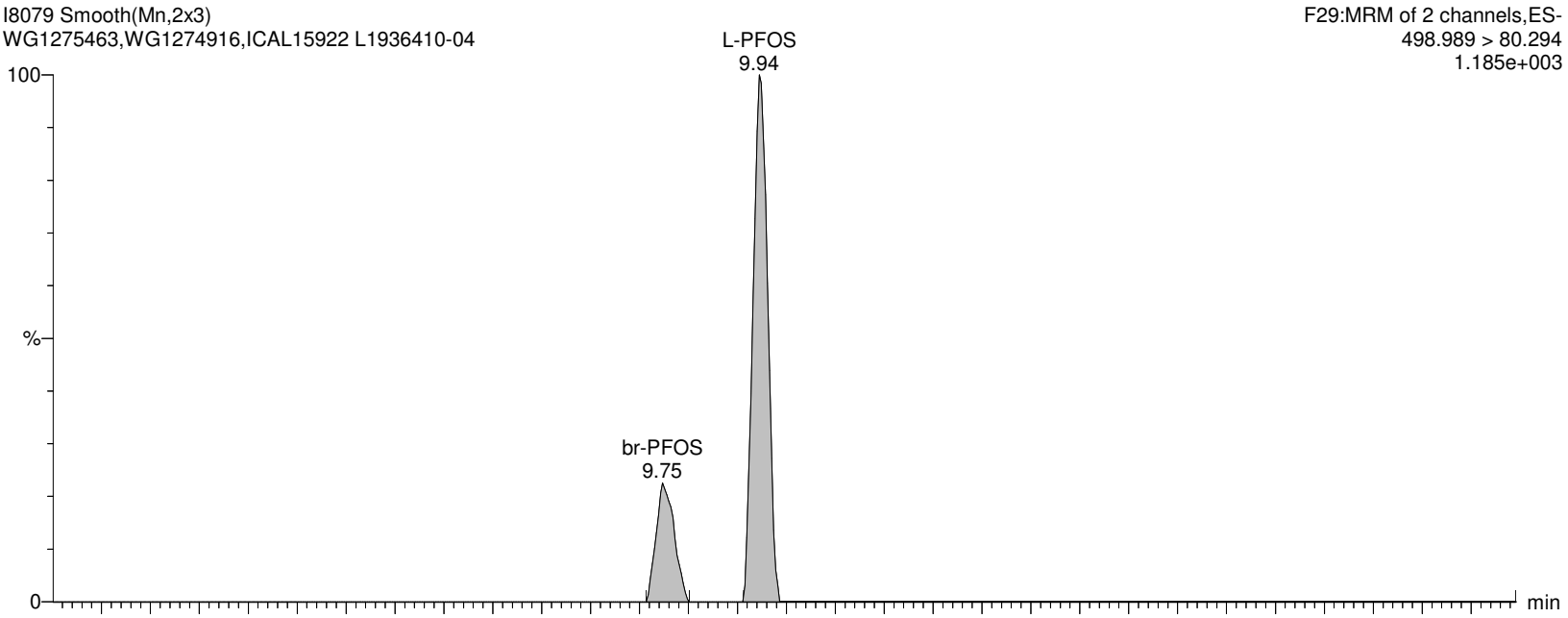


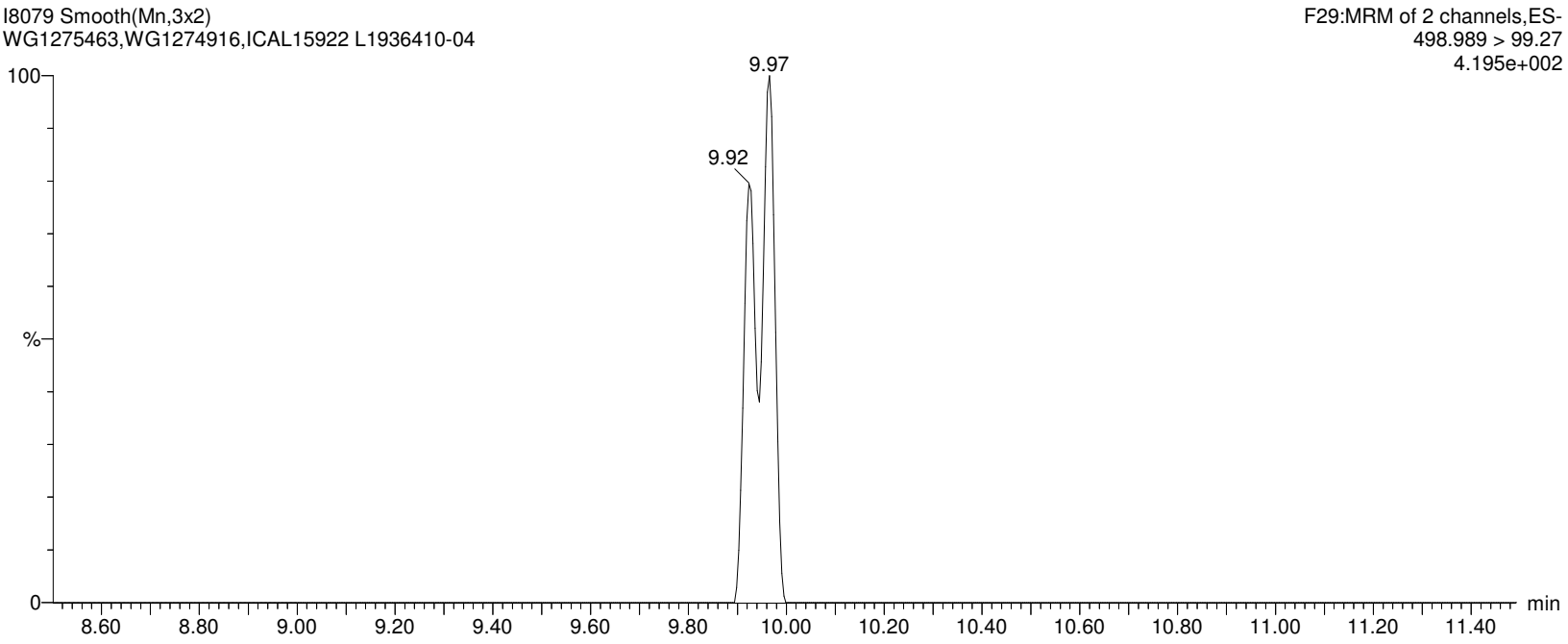
all concentration units in (ng/mL)

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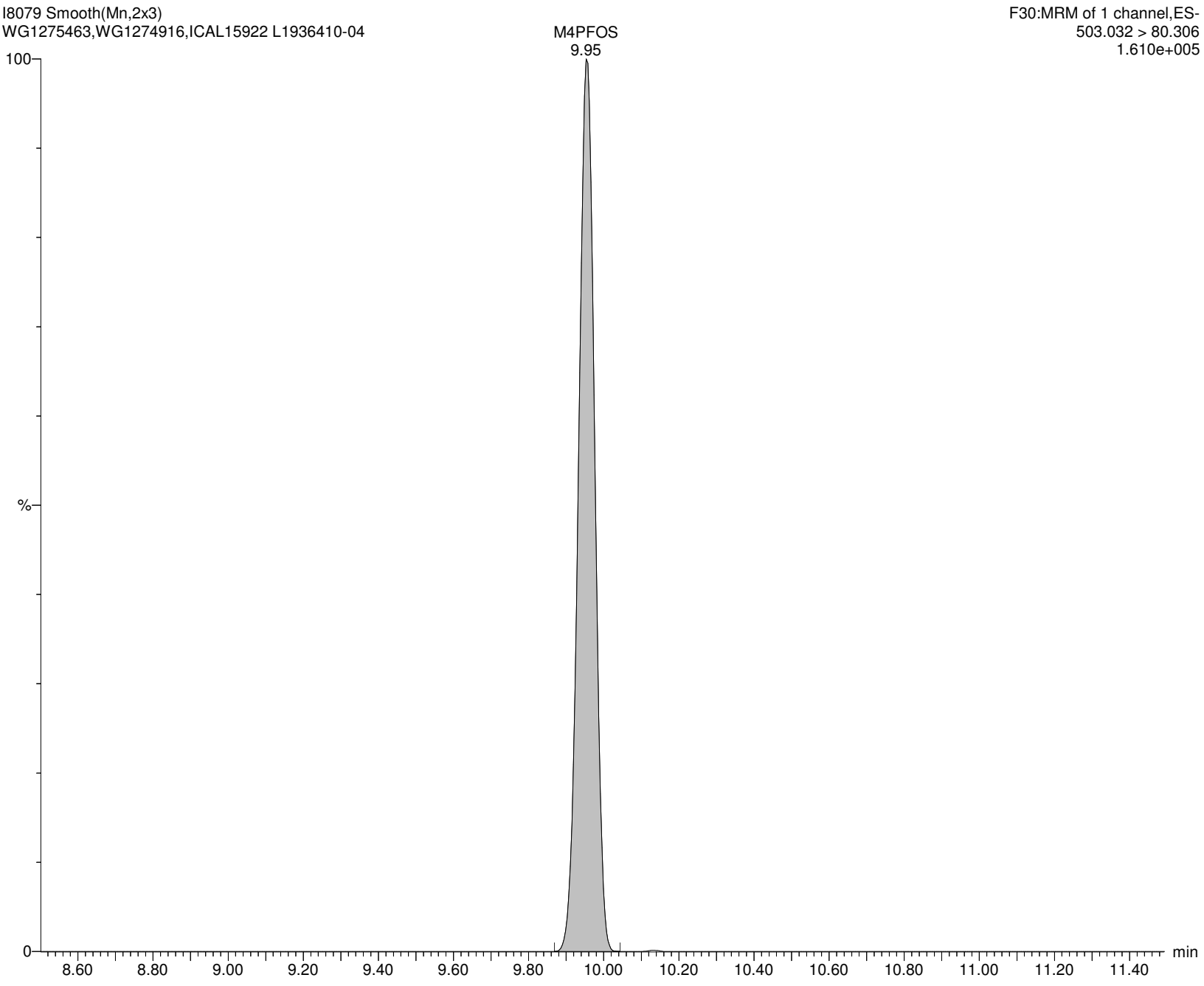


all concentration units in (ng/mL)

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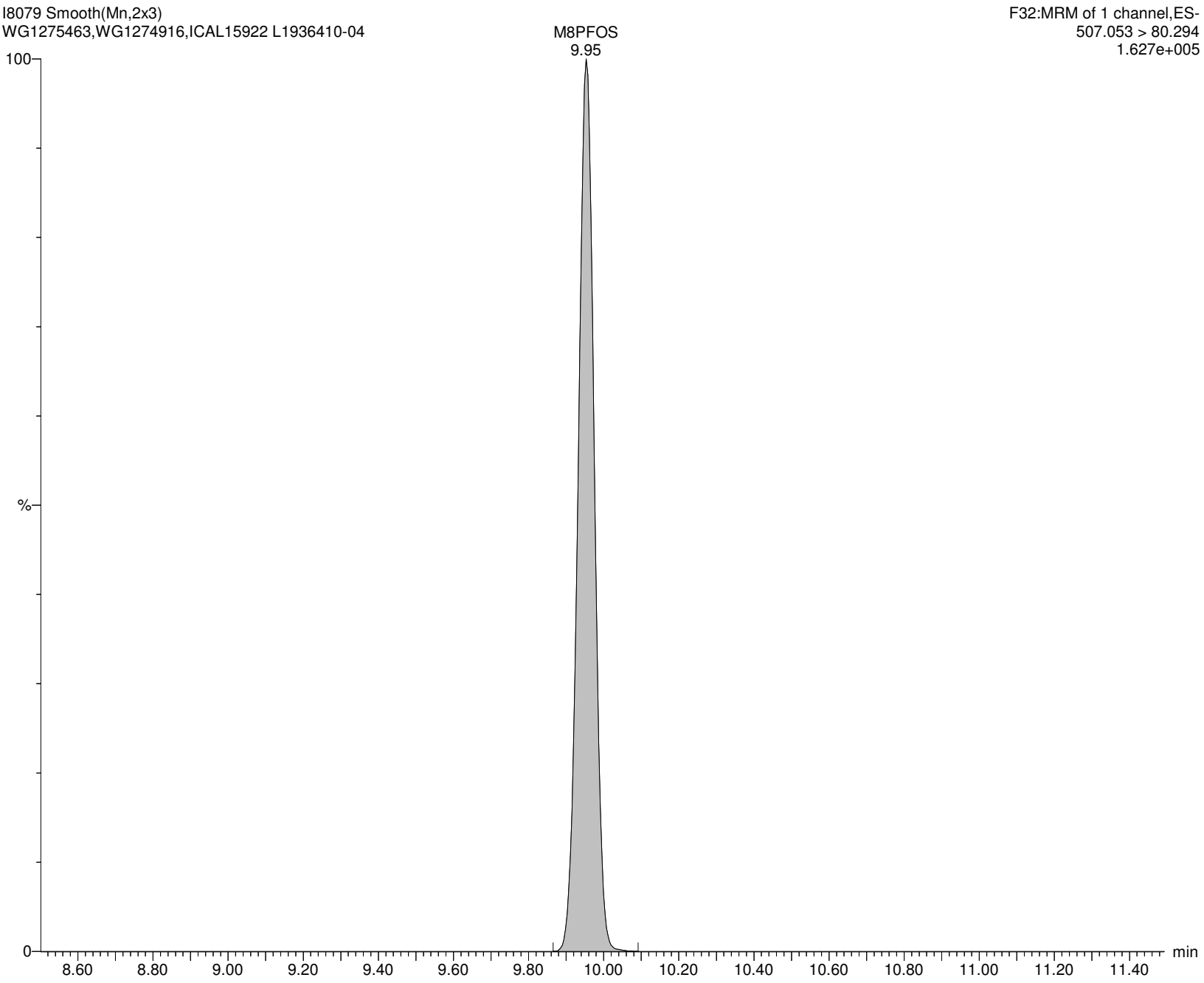


all concentration units in (ng/mL)

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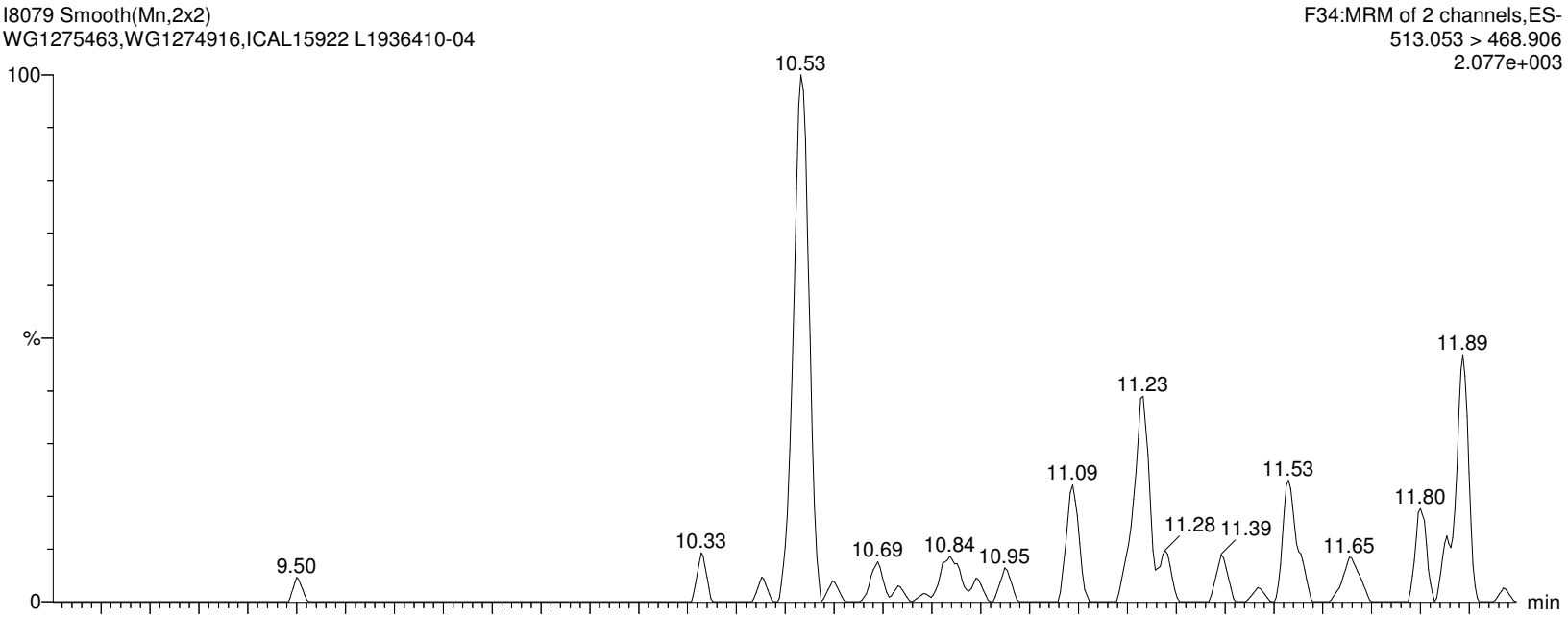


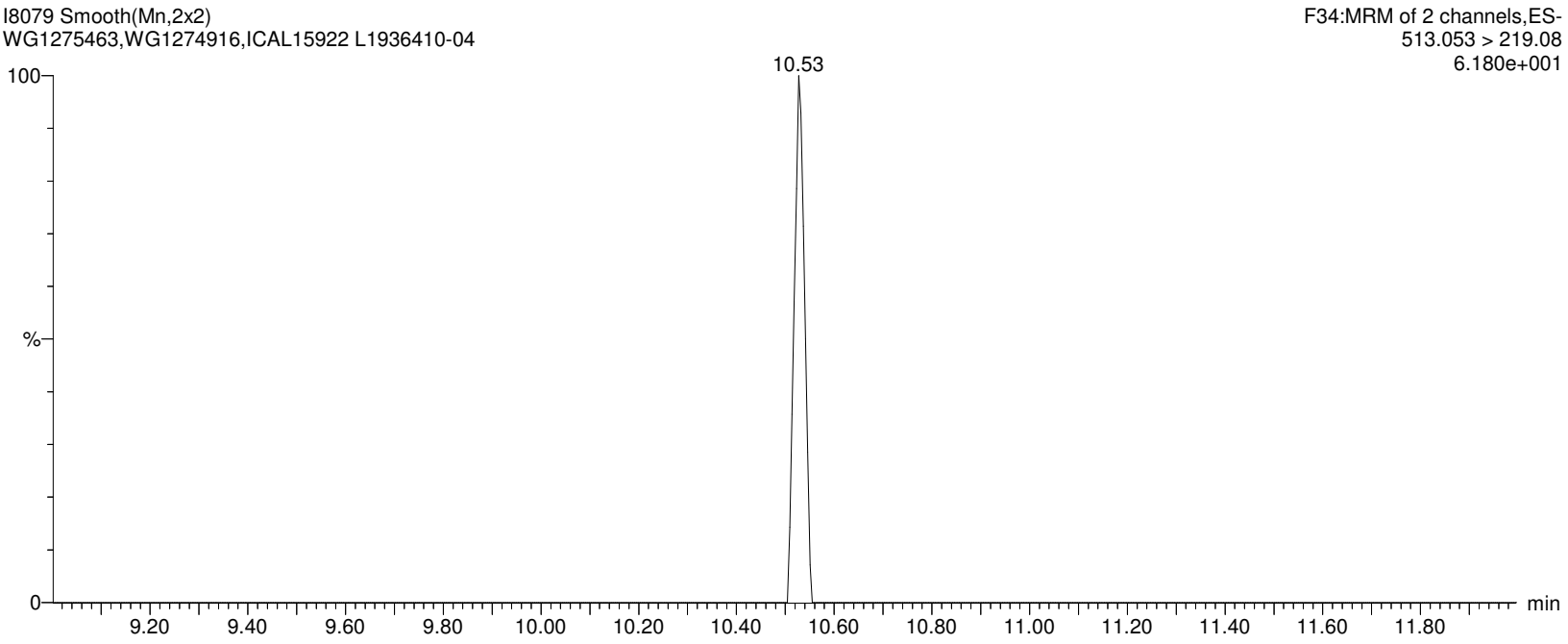
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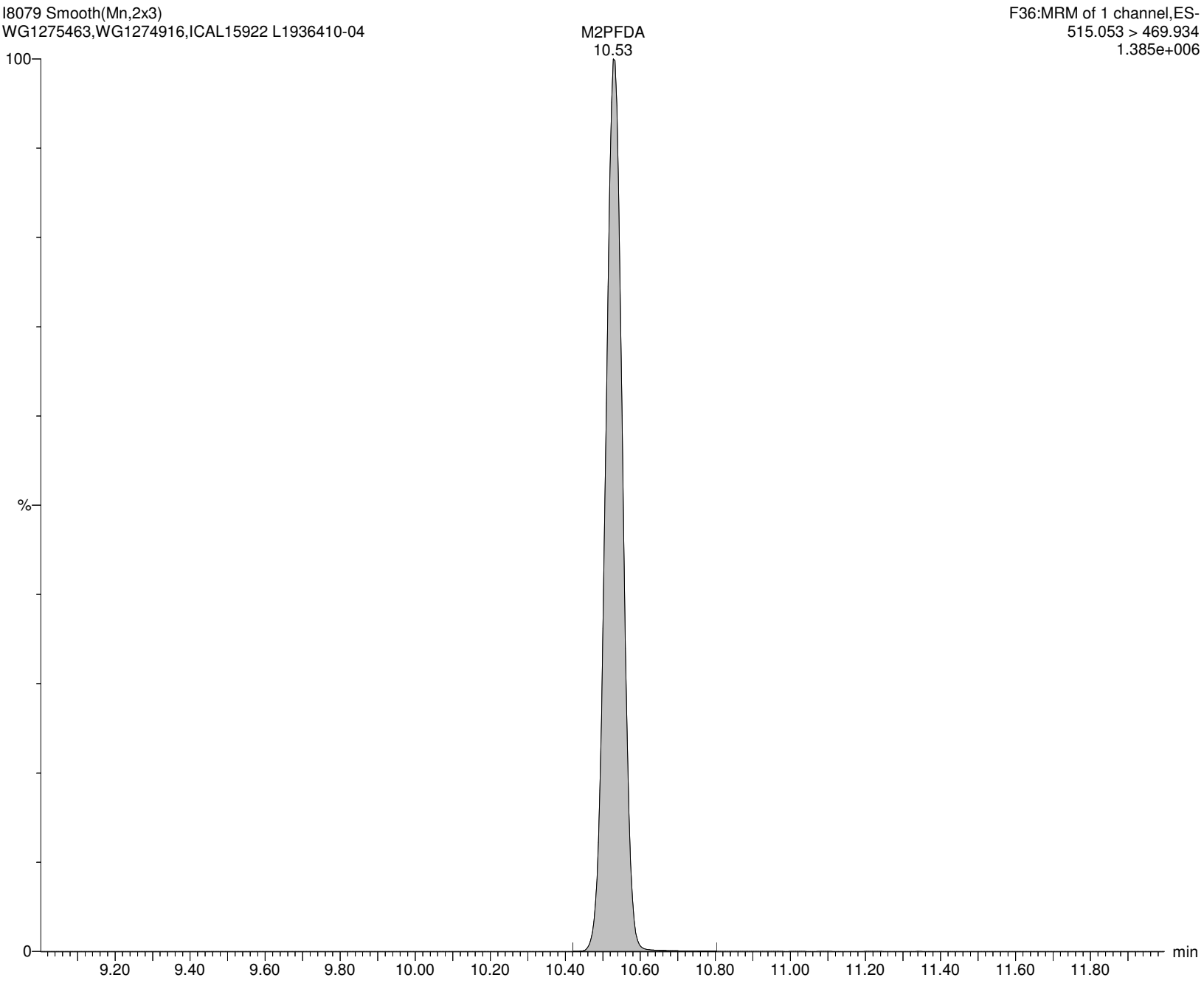


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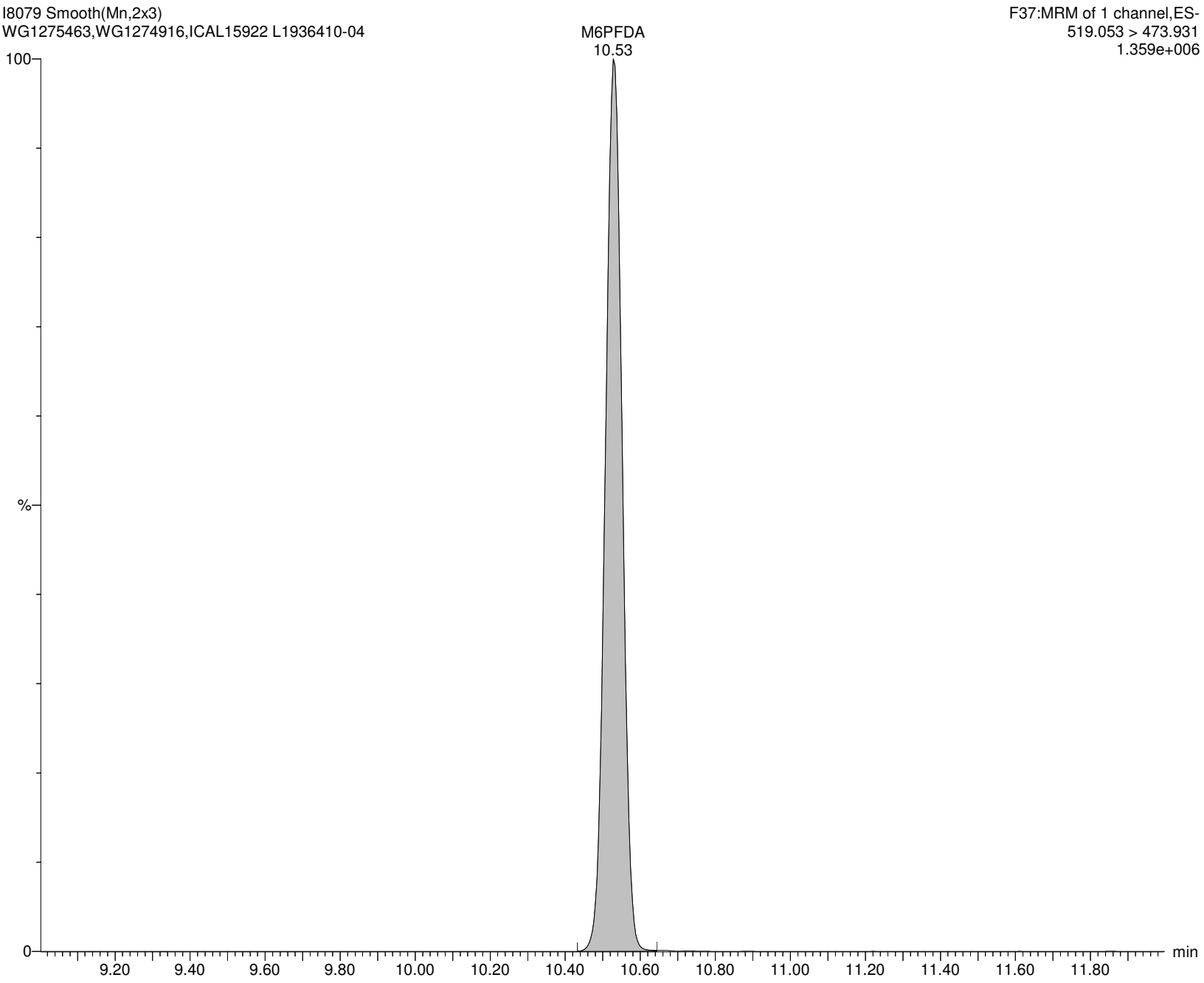


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M6PFDA



all concentration units in (ng/mL)

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8:2FTS

I8079 Smooth(Mn,2x2)
WG1275463,WG1274916,ICAL15922 L1936410-04

F39:MRM of 2 channels,ES-
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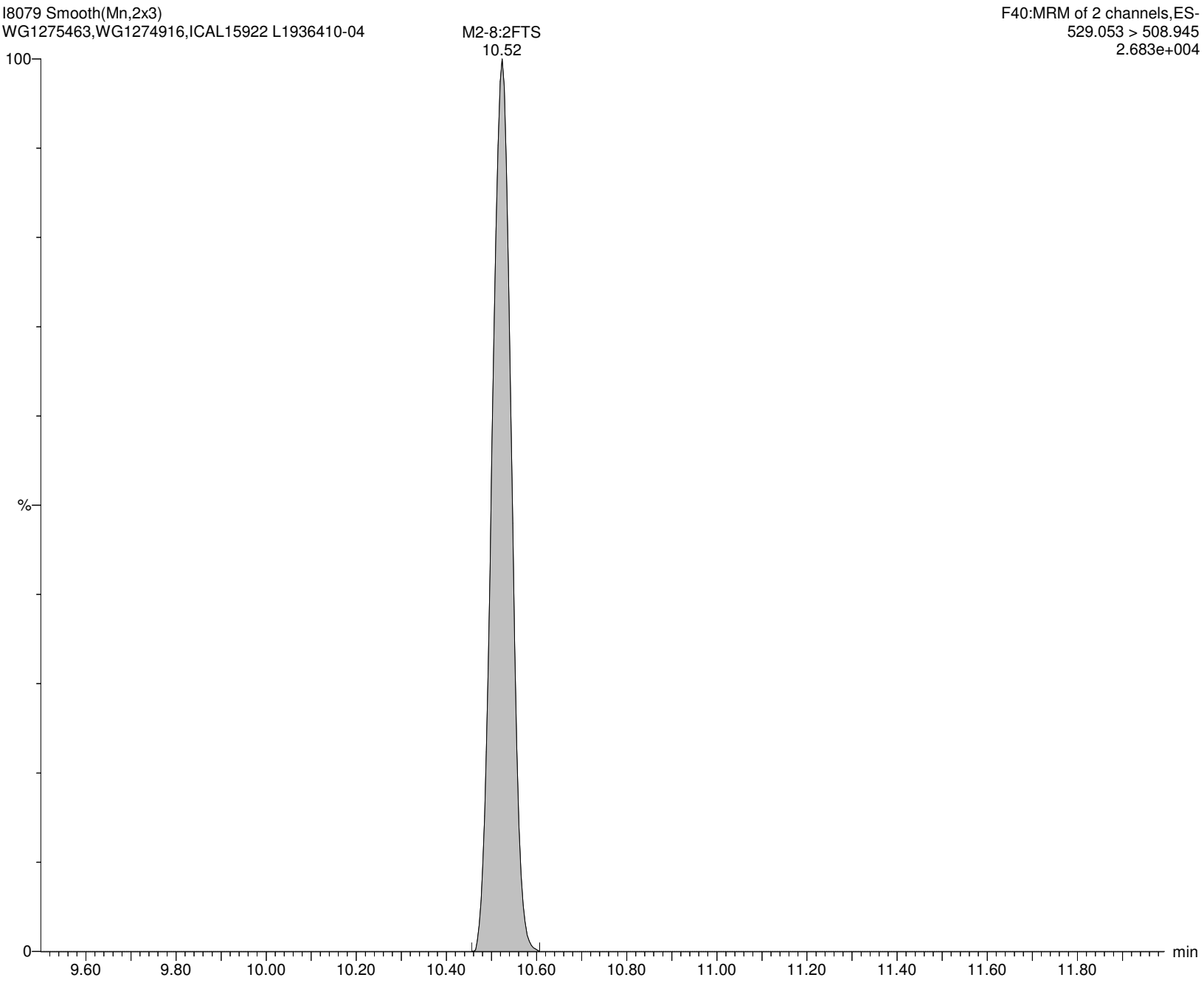


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Printed: Friday, August 23, 2019 09:51:34 Eastern Daylight Time

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ID: L1936410-04
Date: 22-Aug-2019
Time: 15:31:17
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M2-8:2FTS

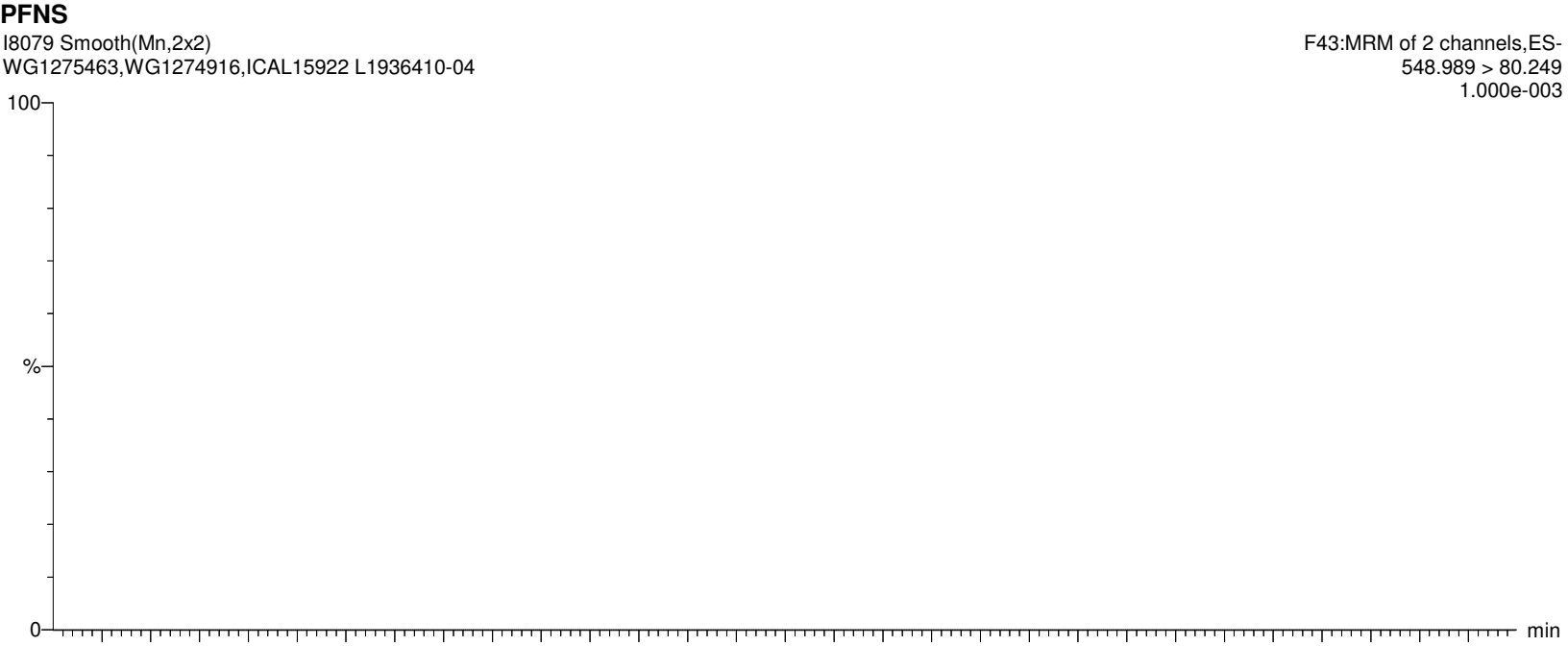


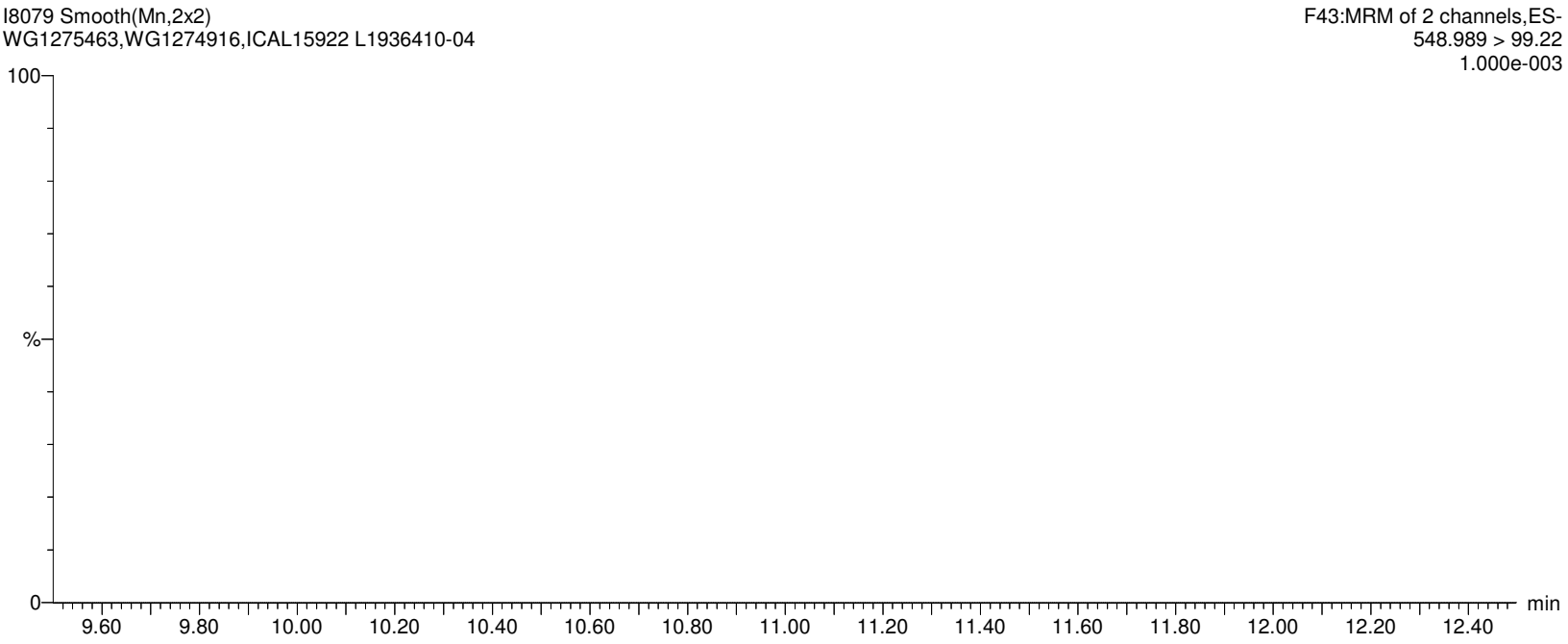
all concentration units in (ng/mL)

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PFNS



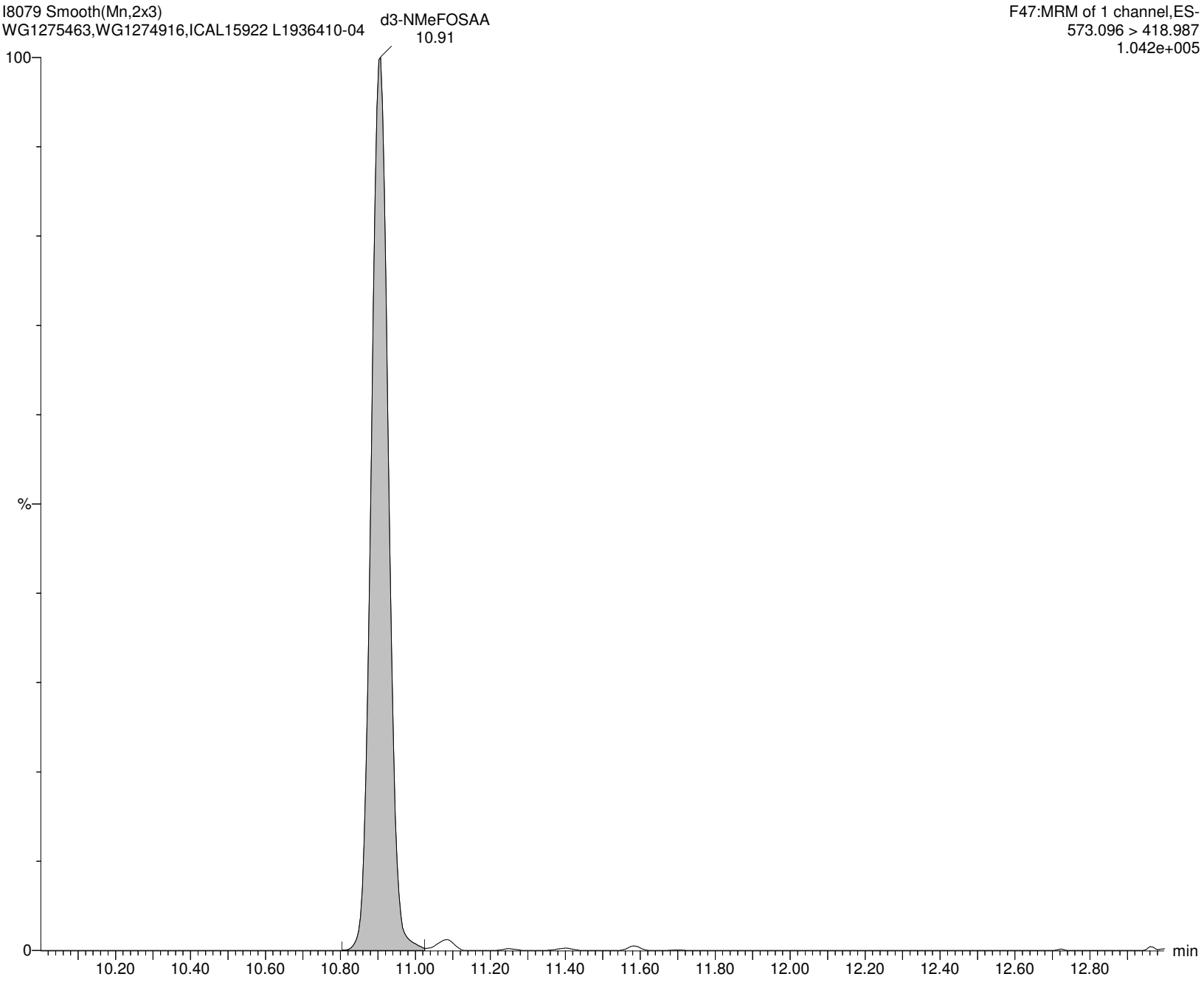


all concentration units in (ng/mL)

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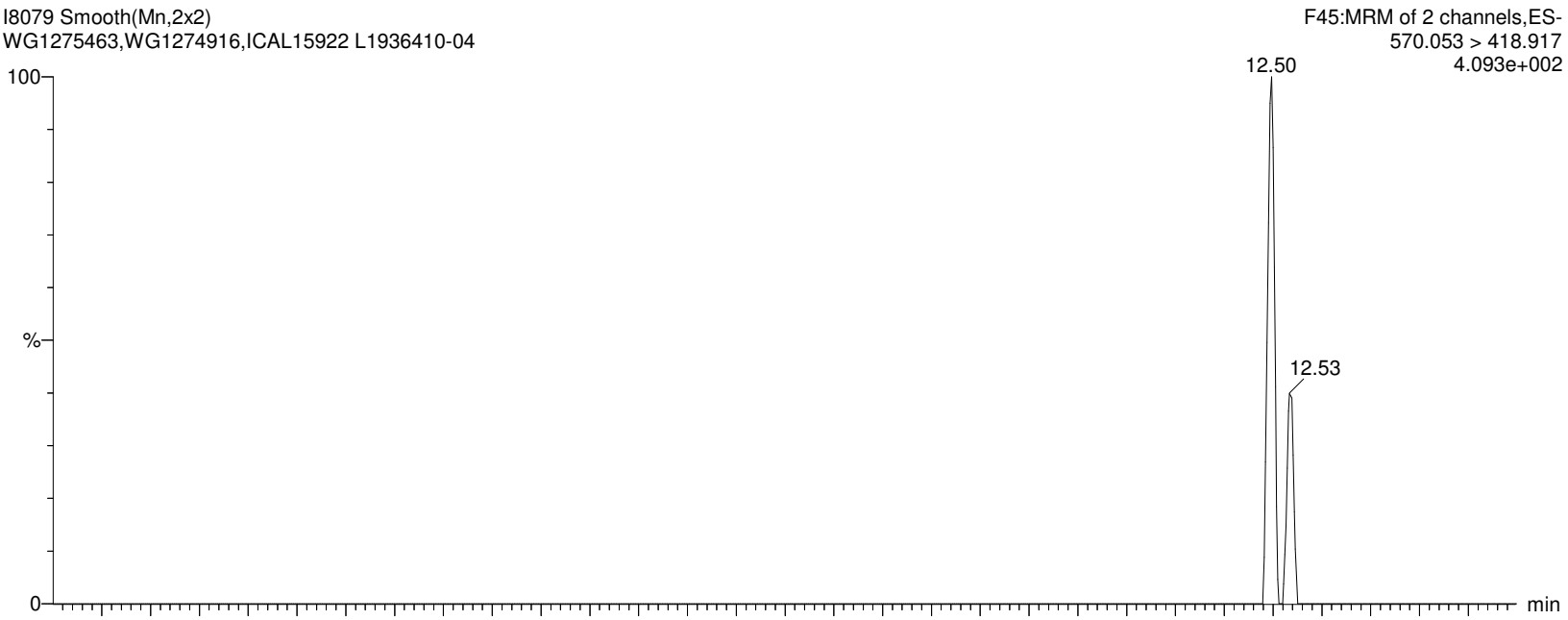


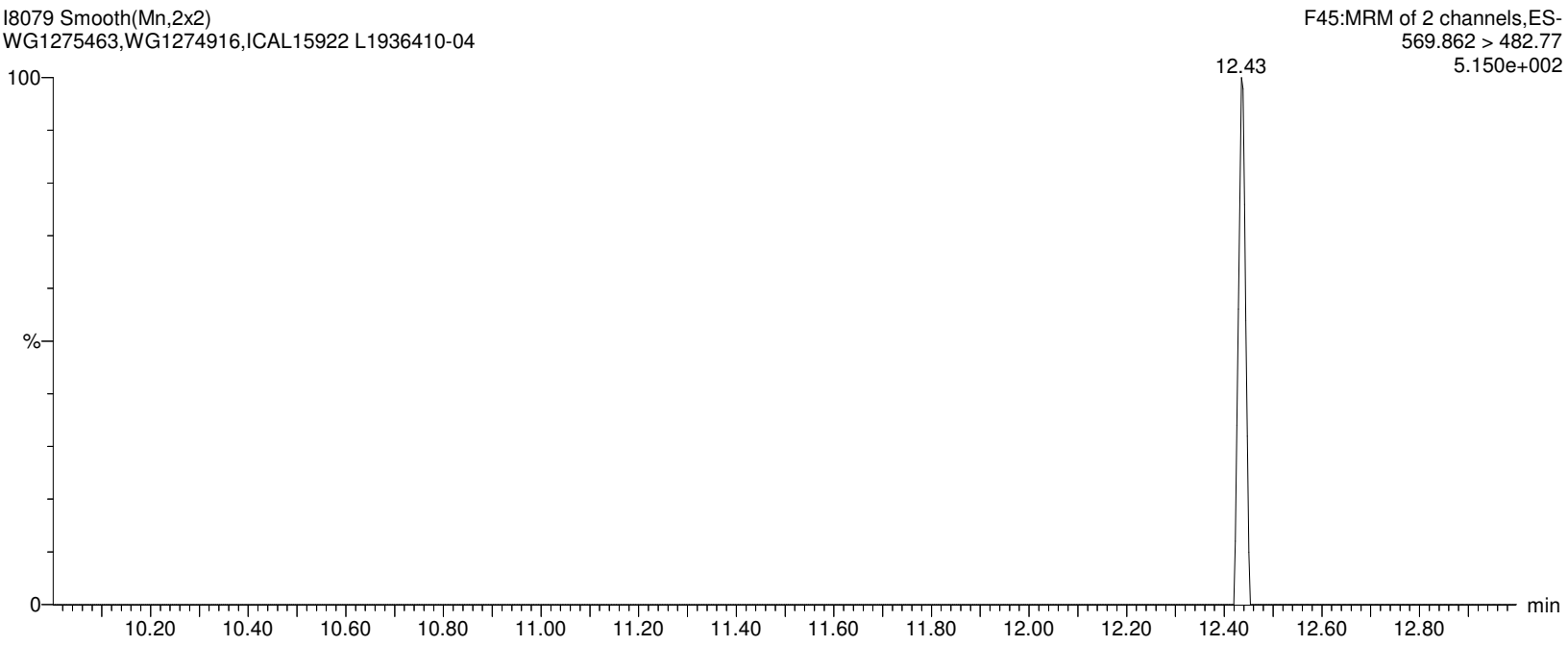
all concentration units in (ng/mL)

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NMeFOSAA



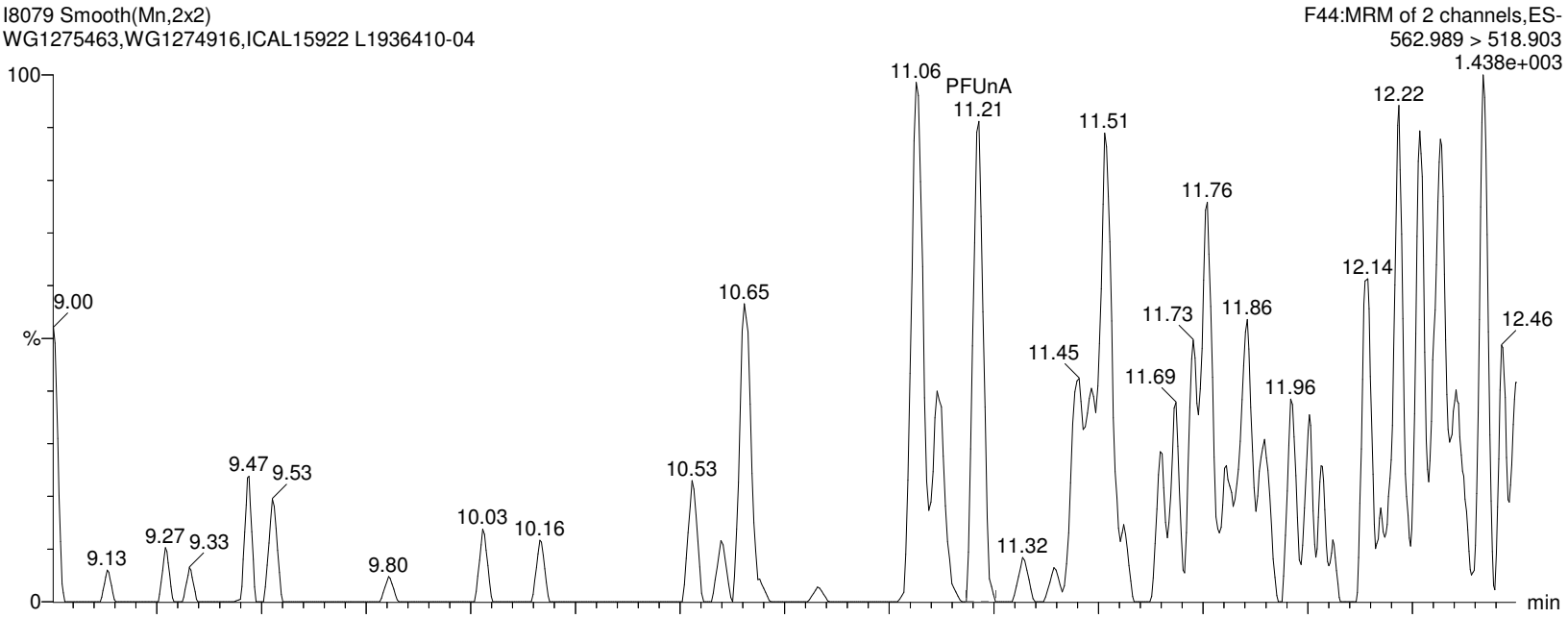


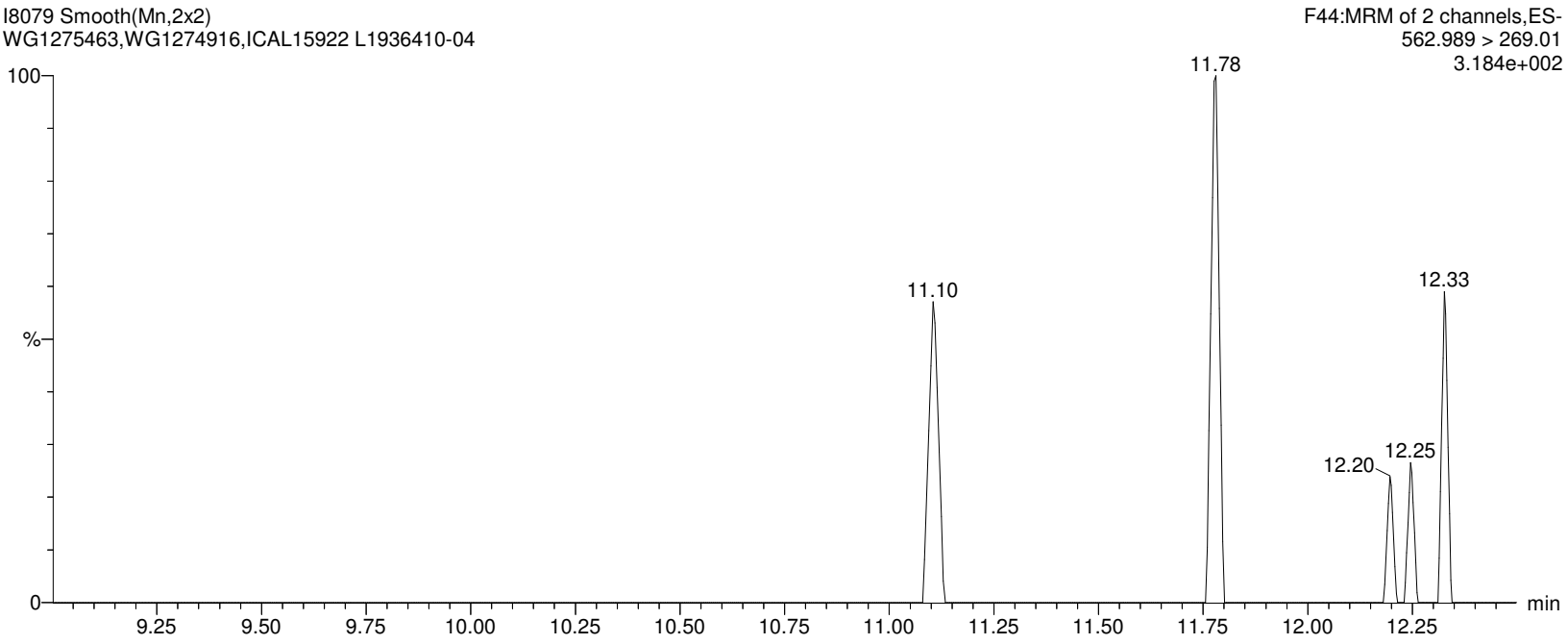
all concentration units in (ng/mL)

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PFUnA



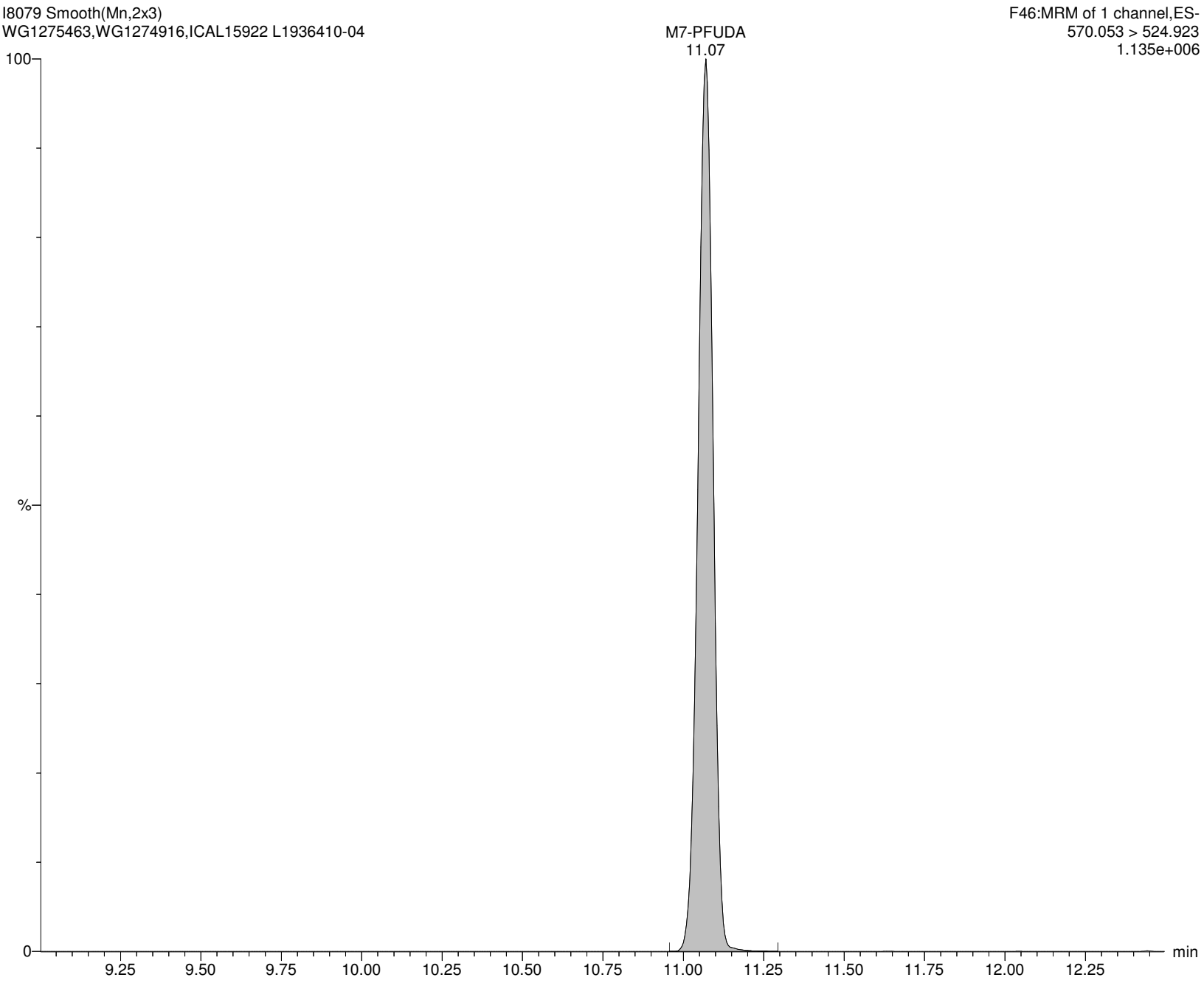


all concentration units in (ng/mL)

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M7-PFUDA

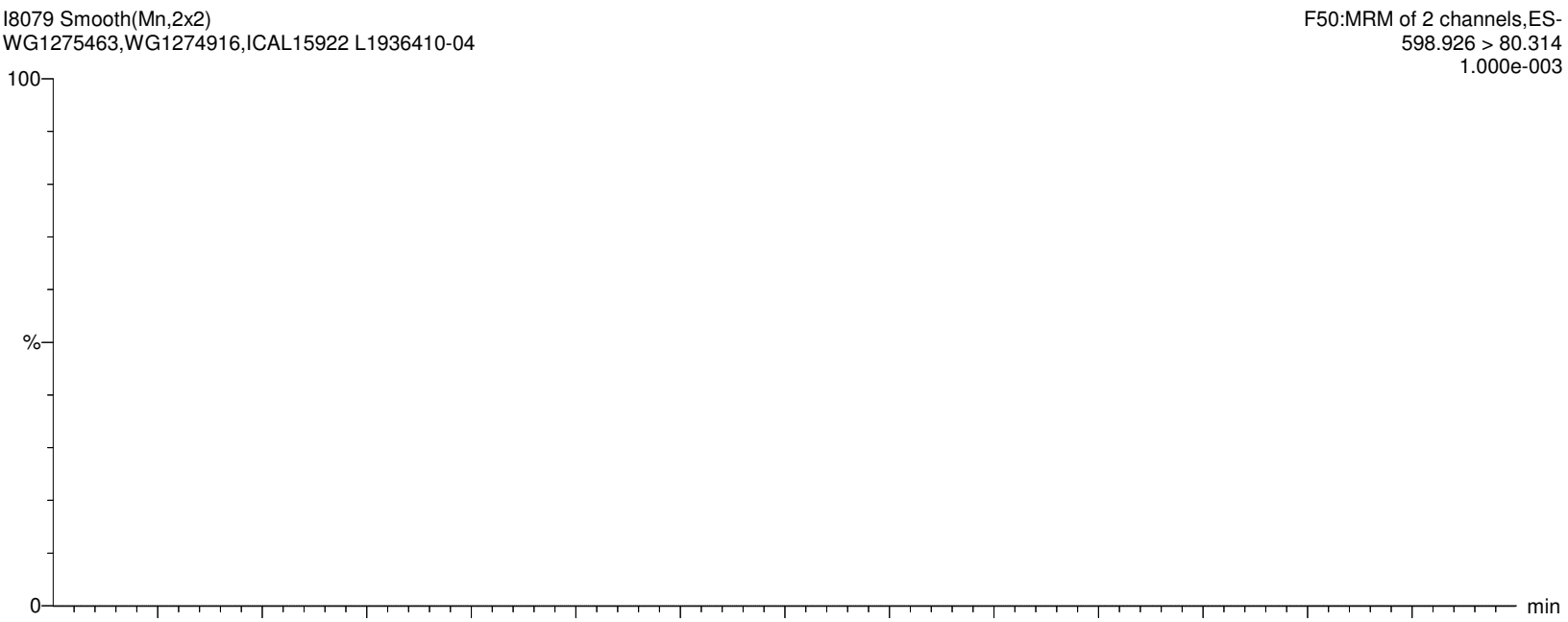


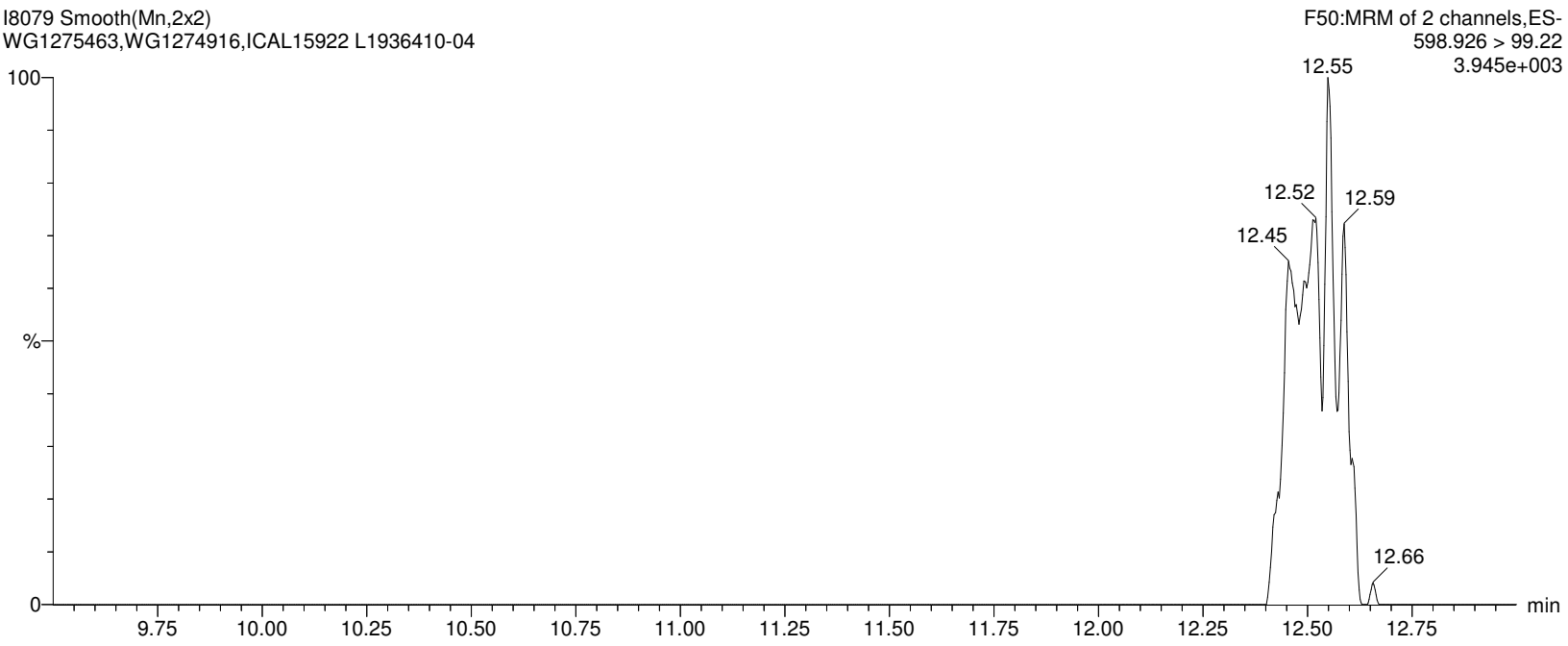
all concentration units in (ng/mL)

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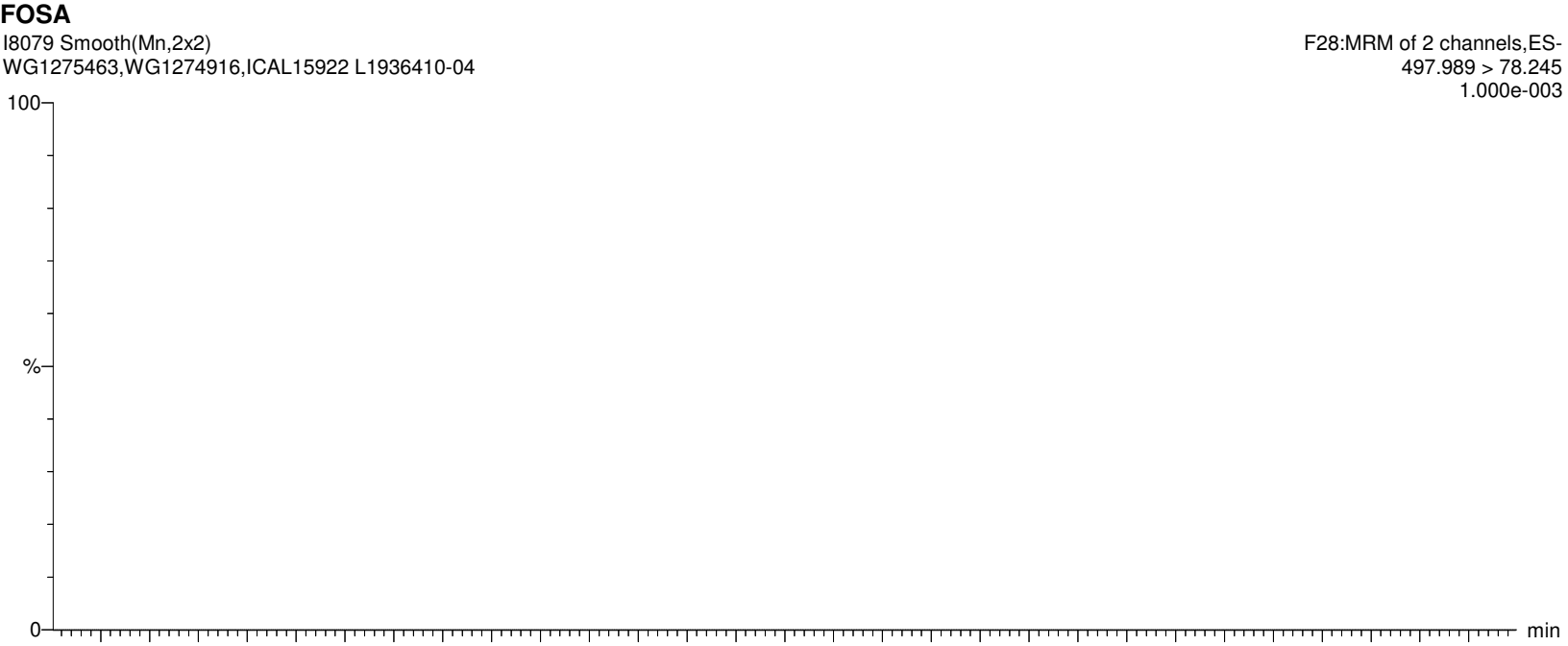


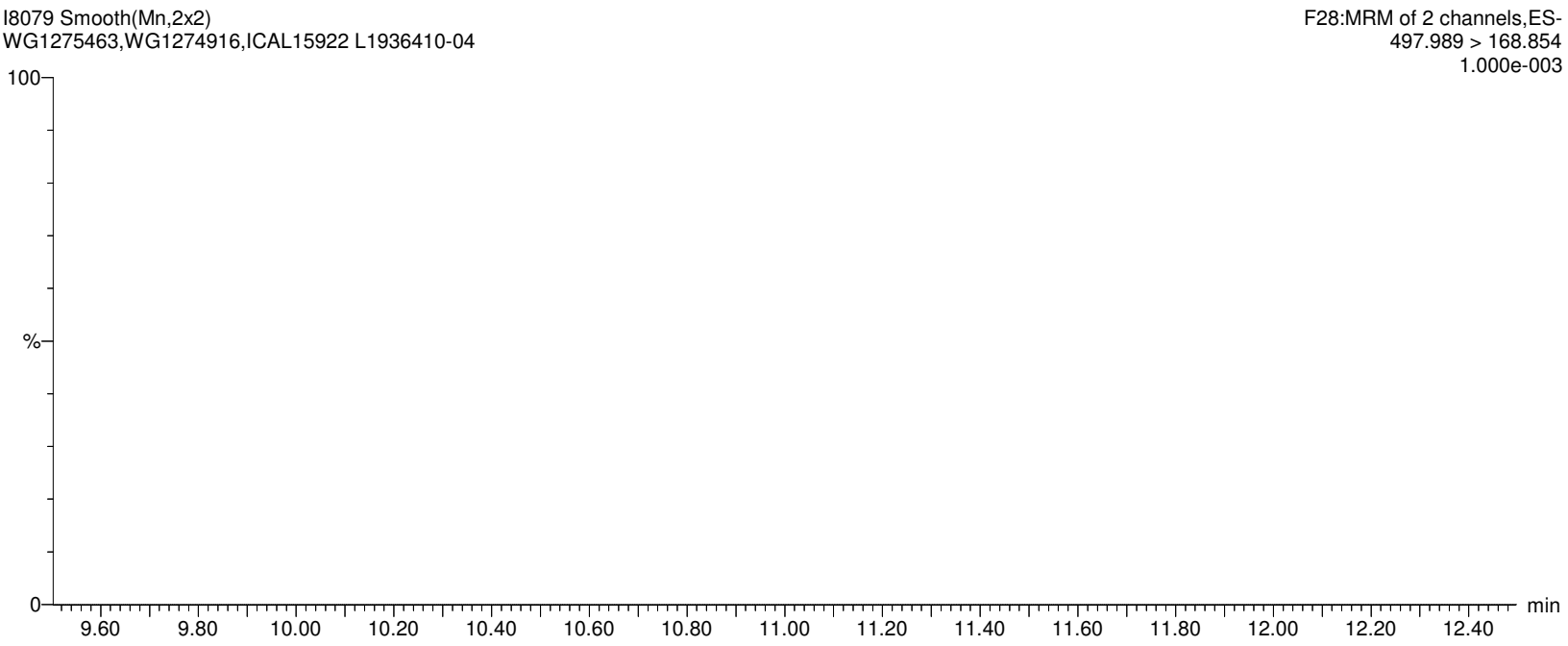
all concentration units in (ng/mL)

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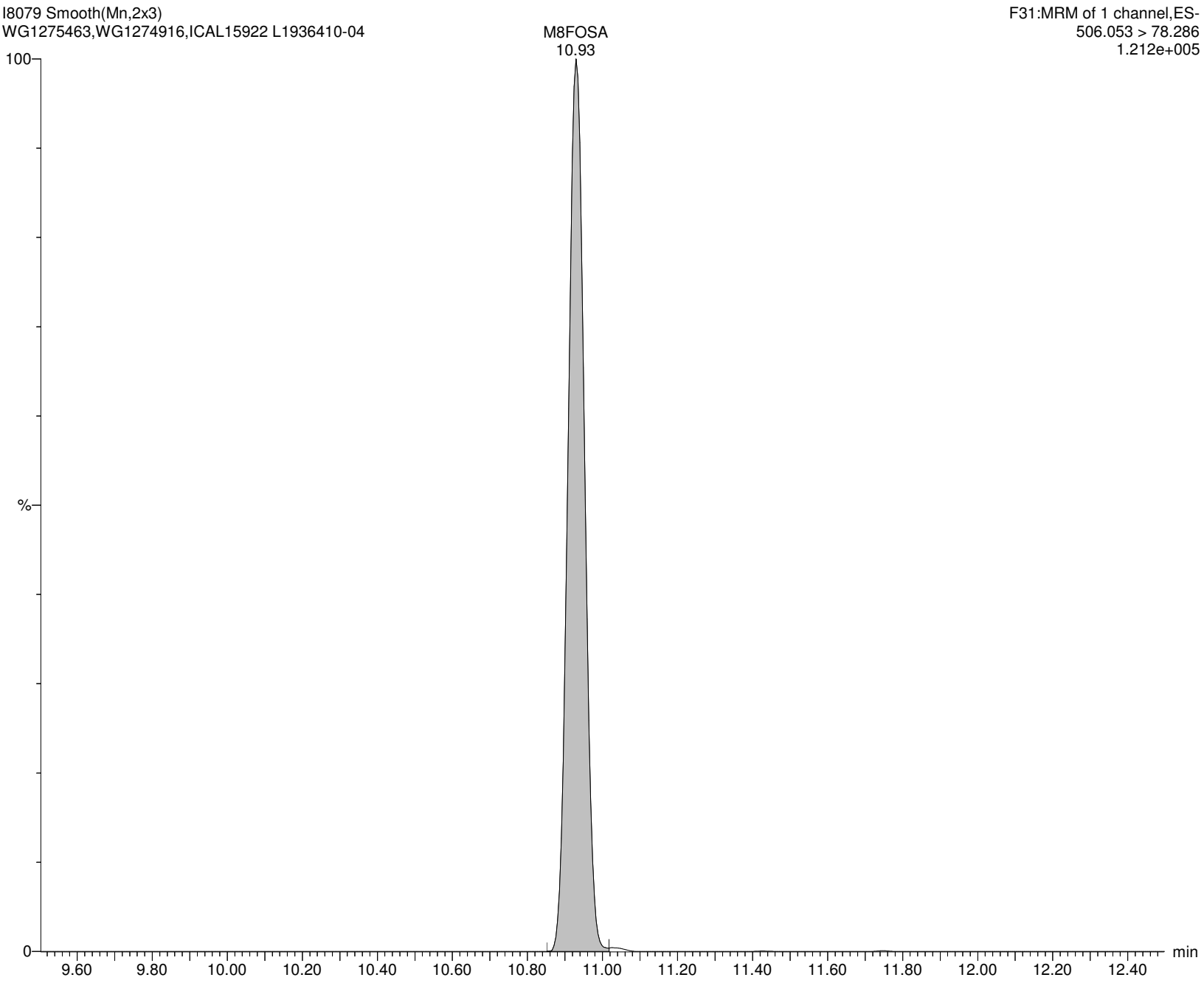


all concentration units in (ng/mL)

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M8FOSA

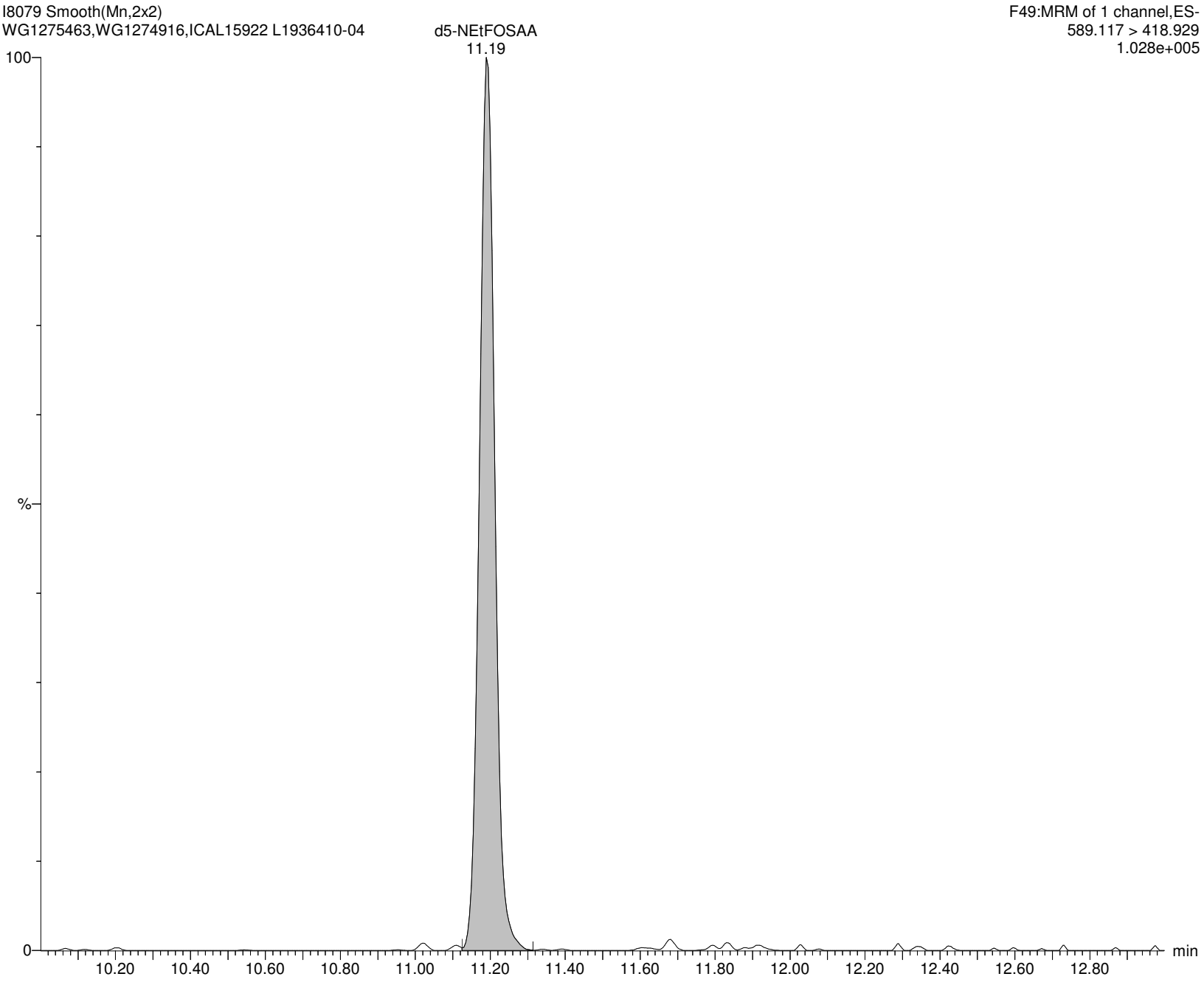


all concentration units in (ng/mL)

Alpha Analytical Inc.
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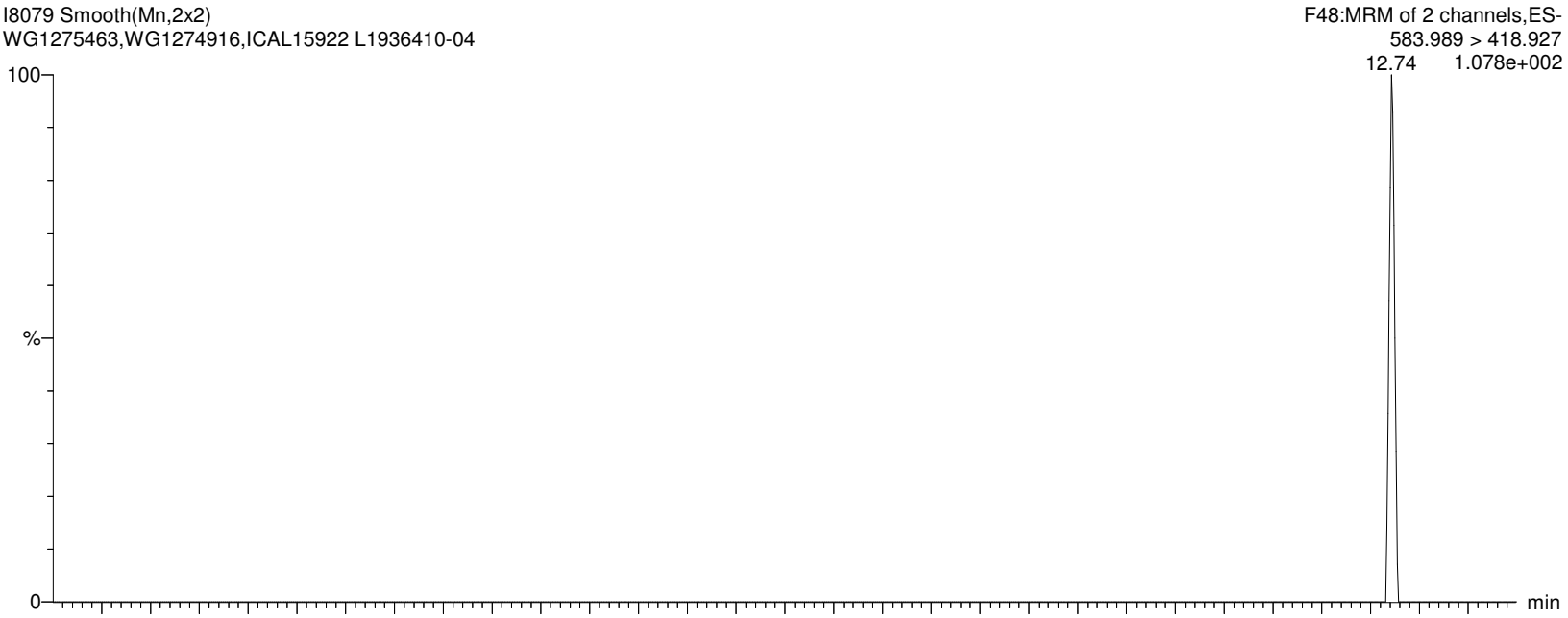


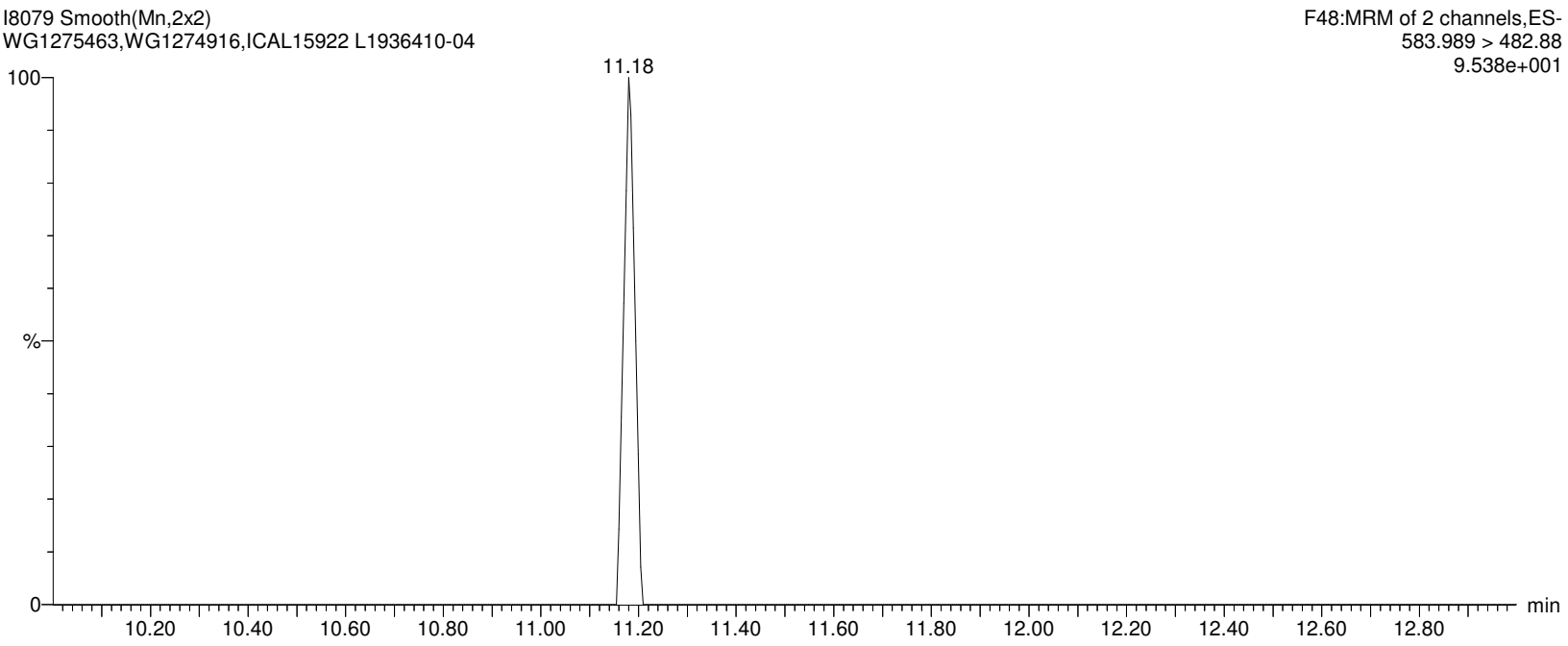
all concentration units in (ng/mL)

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NEtFOSAA



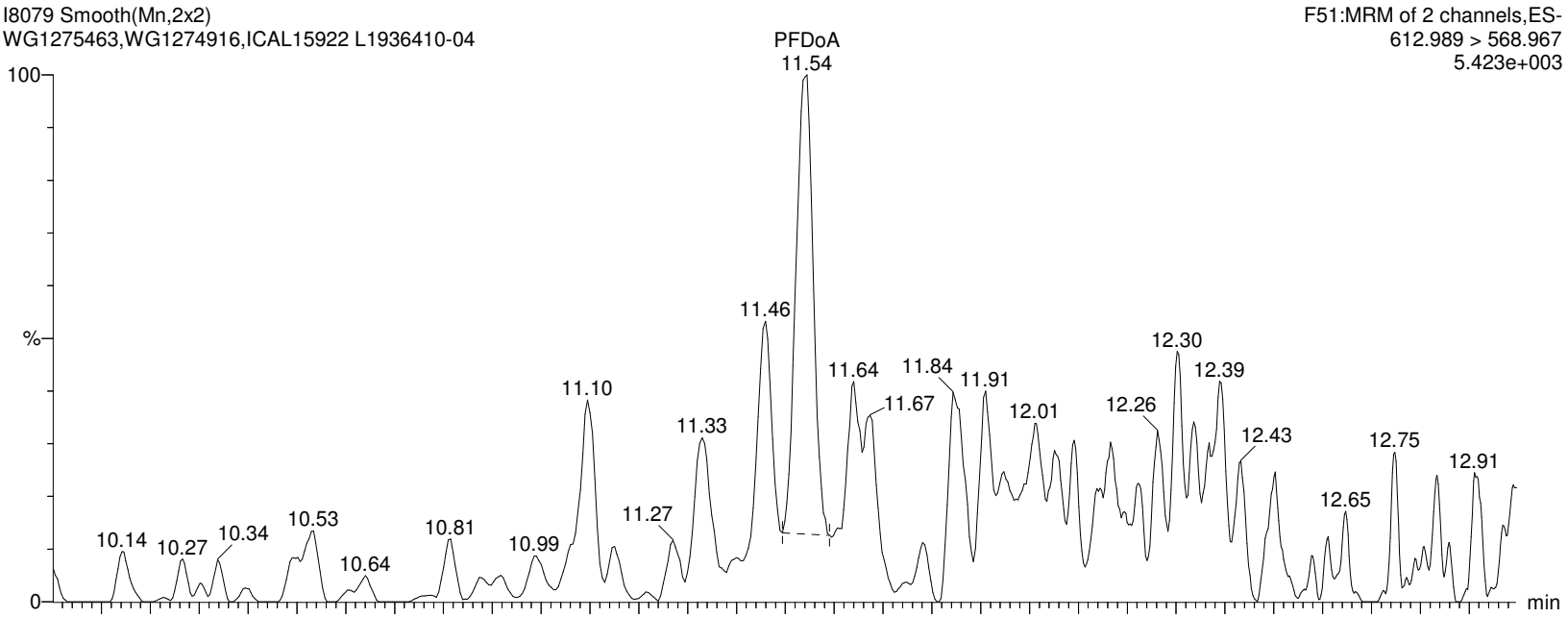


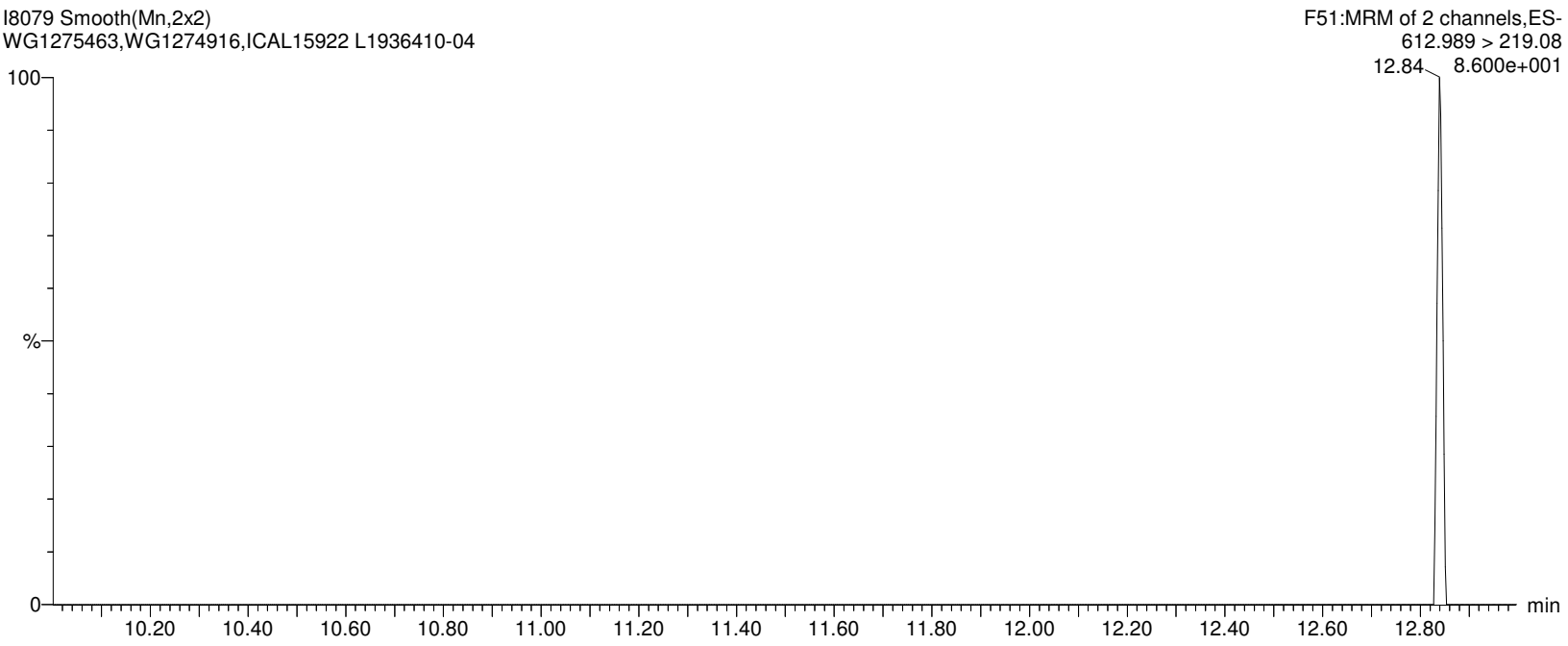
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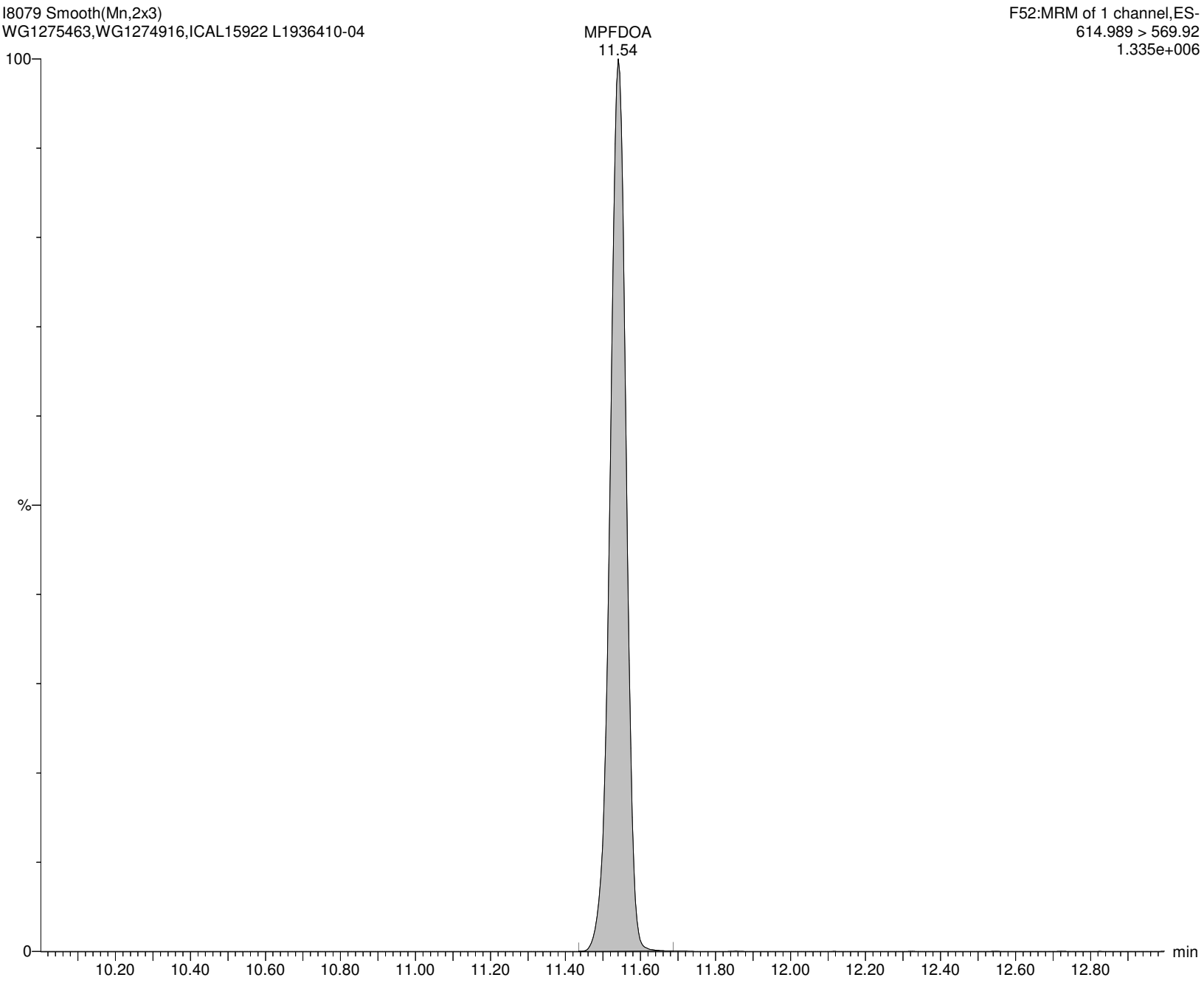


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MPFDOA

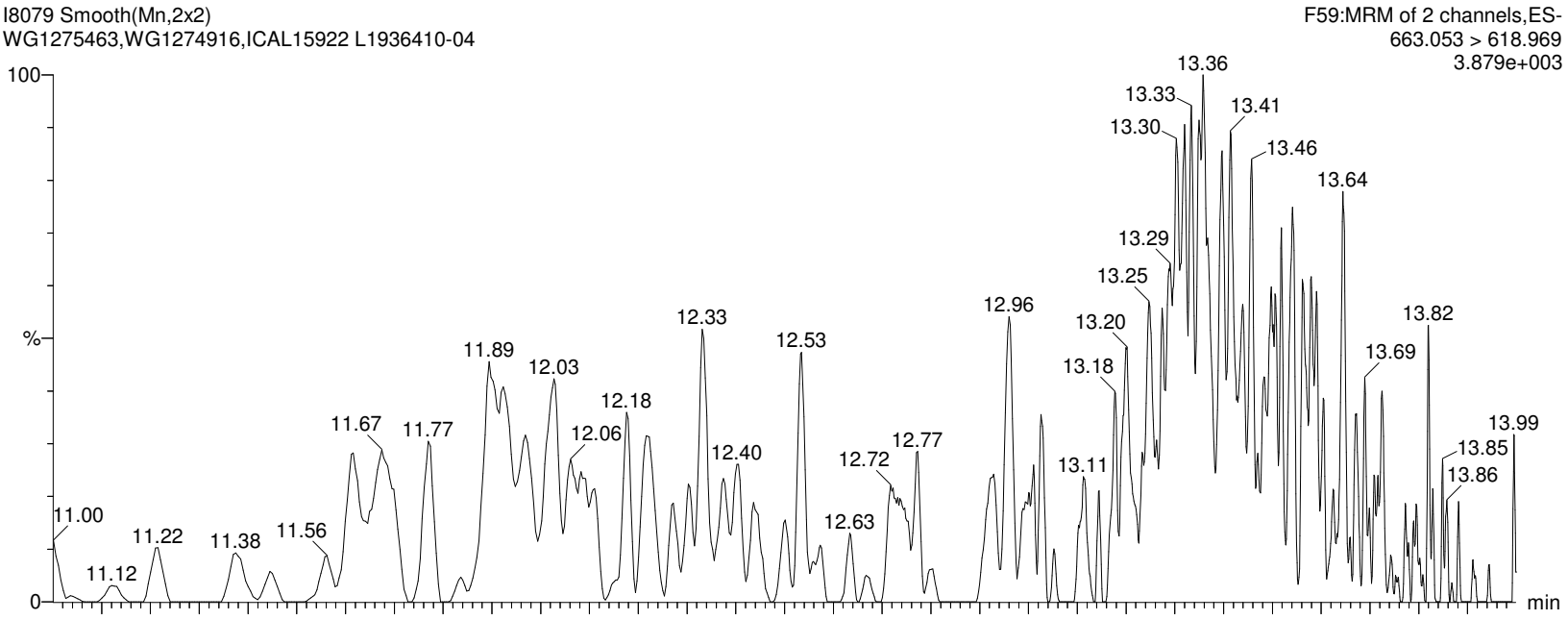


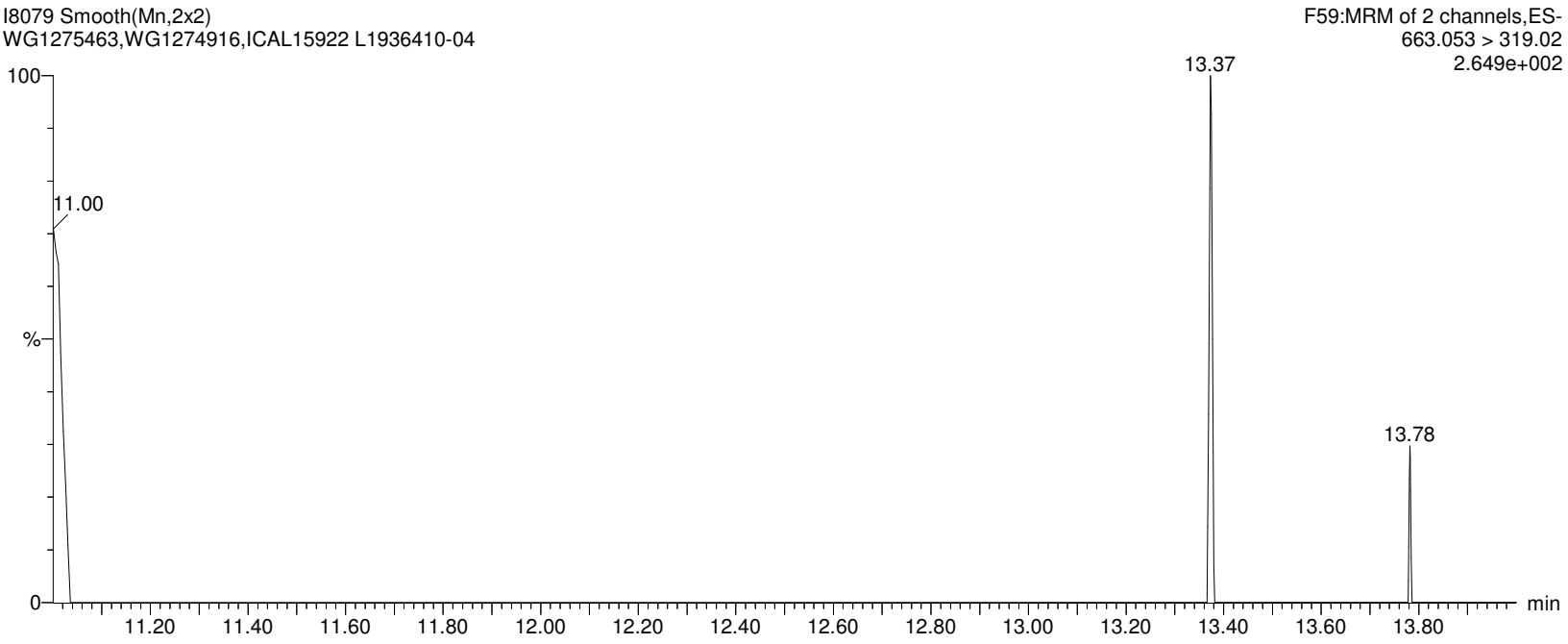
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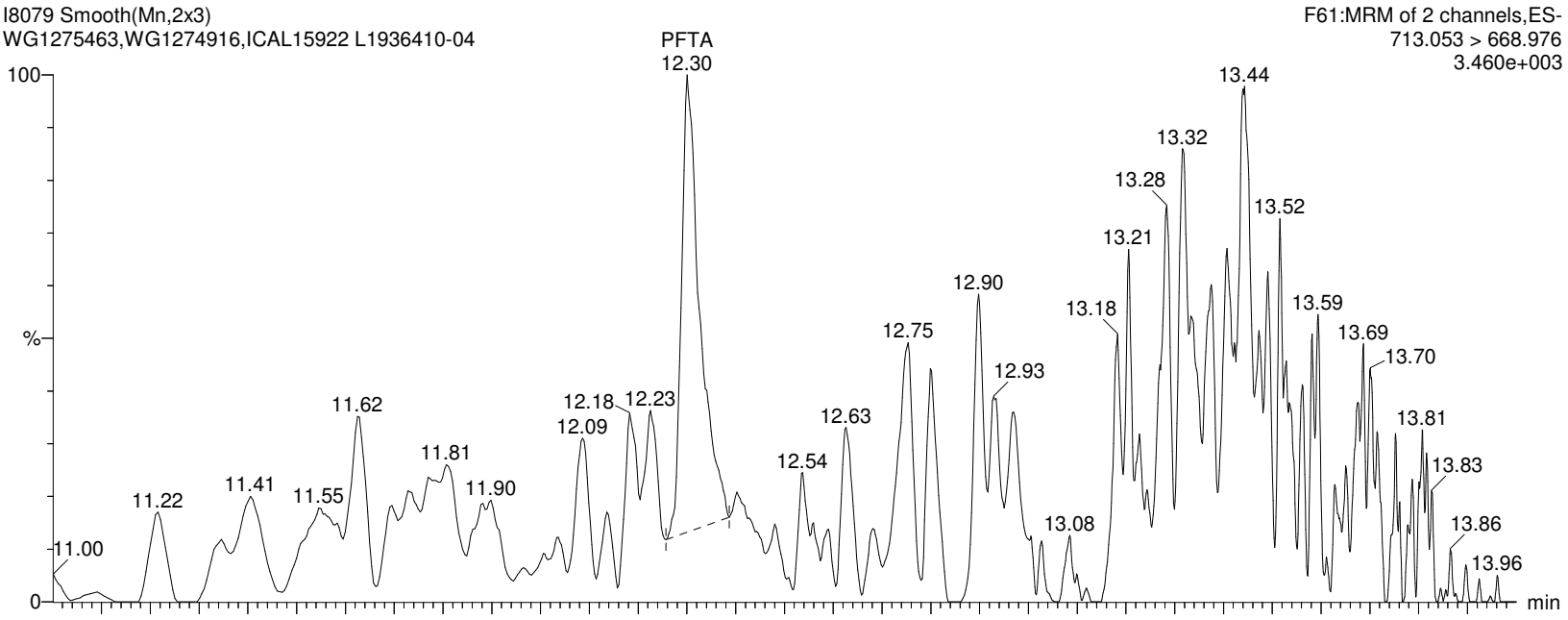


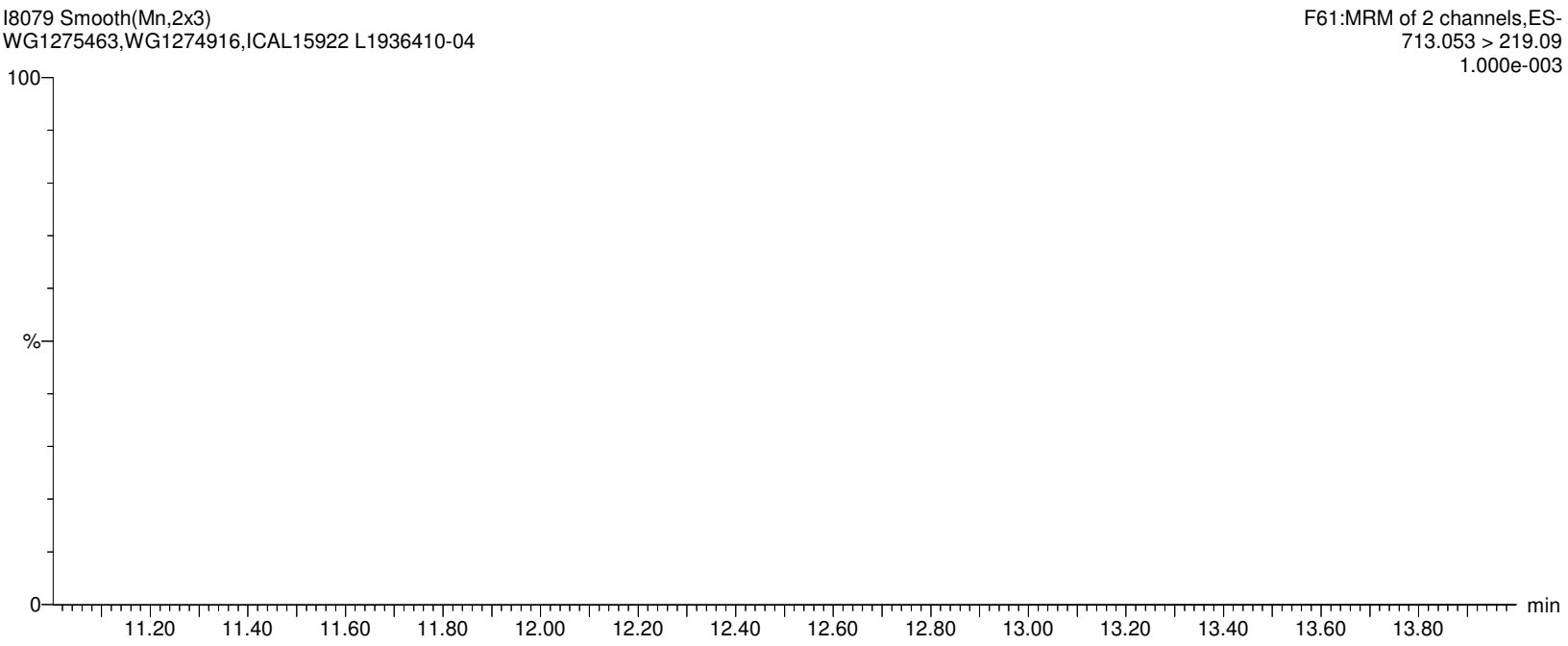
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Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

PFTA



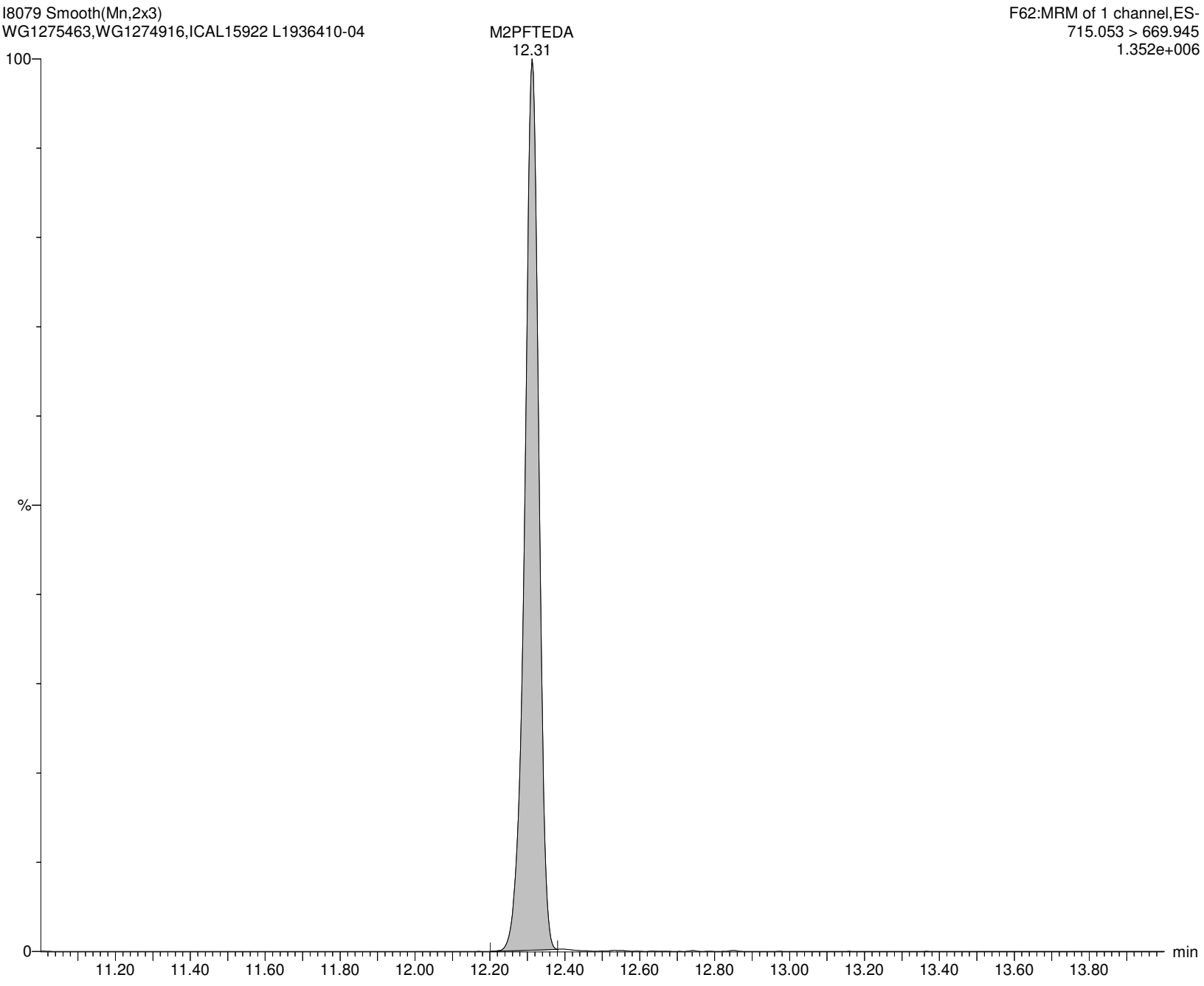


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Printed: Friday, August 23, 2019 09:51:34 Eastern Daylight Time

Name: I8079
ID: L1936410-04
Date: 22-Aug-2019
Time: 15:31:17
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:D,1
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

M2PFTEDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\wg1275463b.qld
Last Altered: Friday, August 23, 2019 09:51:17 Eastern Daylight Time
Printed: Friday, August 23, 2019 09:51:35 Eastern Daylight Time

Method: C:\MassLynx\Data\2019\190822_537ISO.PRO\MethDB\537ISO_Q_190702_DODRT.mdb 07 Aug 2019 10:42:09
Calibration: C:\MassLynx\Data\2019\190822_537ISO.PRO\CurveDB\190702_ISO_ICAL.cdb 02 Jul 2019 11:07:37

ID: L1936410-05
Name: I8080
Date: 22-Aug-2019
Time: 15:47:51
Description: WG1275463,WG1274916,ICAL15922
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4		212.926 > 169.111			ND		na	
2	M3PFBA	INT STD	2.09	215.926 > 172.122	28719		7.426		na	74.3
3	MPFBA	INT STD	2.08	216.926 > 172.137	25699		7.980		na	79.8
4	PFPeA	2706-90-3		262.926 > 219.002			ND		na	
5	M5PFPEA	INT STD	4.98	267.989 > 223.081	46085		10.110		na	101.1
6	PFBS	375-73-5		298.926 > 79.923			ND		YES	
7	M3PFBS	INT STD	5.65	301.989 > 80.254	9708		8.295		na	82.9
8	4:2FTS	757124-72-4		326.926 > 306.957			ND		YES	
9	M2-4:2FTS	INT STD	6.83	329.117 > 309.079	2703		3.854		na	38.5
10	PFHxA	307-24-4		312.989 > 269.028			ND		YES	
11	M5PFHxA	INT STD	6.91	317.989 > 273.045	57795		7.403		na	74.0
12	PFPeS	2706-91-4		348.926 > 80.251			ND		YES	
13	PFHpA	375-85-9		362.926 > 319.014			ND		YES	
14	M4PFHpA	INT STD	8.20	366.926 > 321.979	75590		7.600		na	76.0
15	br-PFHxS	355-46-4		398.926 > 80.295			ND		YES	
16	L-PFHxS	355-46-4		398.926 > 80.295			ND		YES	
17	PFHxS	355-46-4		398.926 > 80.295	0		ND		na	
18	M3PFHxS	INT STD	8.36	401.926 > 80.317	6405		8.831		na	88.3
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1		412.989 > 368.9			ND	0.00	YES	
21	M2PFOA	INT STD	9.15	415.032 > 369.968	92604		10.157		na	101.6
22	PFOA	335-67-1		412.989 > 368.9	0		ND		na	
23	M8PFOA	INT STD	9.15	420.989 > 375.979	72973		7.931		na	79.3
24	6:2FTS	27619-97-2		426.989 > 406.921			ND		YES	
25	M2-6:2FTS	INT STD	9.11	428.989 > 408.917	2116		3.348		na	33.5
26	PFHpS	375-92-8		448.926 > 80.257			ND		YES	
27	PFNA	375-95-1		462.989 > 418.931			ND		YES	
28	M9PFNA	INT STD	9.91	472.053 > 426.947	69716		8.182		na	81.8
29	br-PFOS	1763-23-1		498.989 > 80.294			ND		YES	
30	L-PFOS	1763-23-1		498.989 > 80.294			ND		YES	
31	PFOS	1763-23-1		498.989 > 80.294	0		ND		na	
32	M4PFOS	INT STD	9.96	503.032 > 80.306	8793		11.823		na	118.2
33	M8PFOS	INT STD	9.96	507.053 > 80.294	8538		9.016		na	90.2
34	PFDA	335-76-2		513.053 > 468.906			ND		YES	
35	M2PFDA	INT STD	10.54	515.053 > 469.934	77779		10.874		na	108.7
36	M6PFDA	INT STD	10.54	519.053 > 473.931	63858		7.343		na	73.4
37	8:2FTS	39108-34-4		526.926 > 506.818			ND		na	
38	M2-8:2FTS	INT STD	10.53	529.053 > 508.945	1319		3.804		na	38.0
39	PFNS	68259-12-1		548.989 > 80.249			ND		YES	

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\wg1275463b.qld
Last Altered: Friday, August 23, 2019 09:51:17 Eastern Daylight Time
Printed: Friday, August 23, 2019 09:51:35 Eastern Daylight Time

ID: L1936410-05
Name: I8080
Date: 22-Aug-2019
Time: 15:47:51
Description: WG1275463,WG1274916,ICAL15922
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.91	573.096 > 418.987	5005		5.800		na	58.0
41	NMeFOSAA	2355-31-9		570.053 > 418.917			ND		YES	
42	PFUnA	2058-94-8		562.989 > 518.903			ND		YES	
43	M7-PFUDA	INT STD	11.07	570.053 > 524.923	54310		7.062		na	70.6
44	PFDS	335-77-3		598.926 > 80.314			ND		YES	
45	FOSA	754-91-6		497.989 > 78.245			ND		YES	
46	M8FOSA	INT STD	10.93	506.053 > 78.286	5813		2.246		na	22.5
47	d5-NEtFOSAA	INT STD	11.19	589.117 > 418.929	3554		4.545		na	45.4
48	NEtFOSAA	2991-50-6		583.989 > 418.927			ND		YES	
49	PFDoA	307-55-1		612.989 > 568.967			ND		YES	
50	MPFDOA	INT STD	11.54	614.989 > 569.92	58998		6.929		na	69.3
51	PFTrDA	72629-94-8		663.053 > 618.969			ND		YES	
52	PFTA	376-06-7		713.053 > 668.976			ND		YES	
53	M2PFTEDA	INT STD	12.31	715.053 > 669.945	53956		7.500		na	75.0

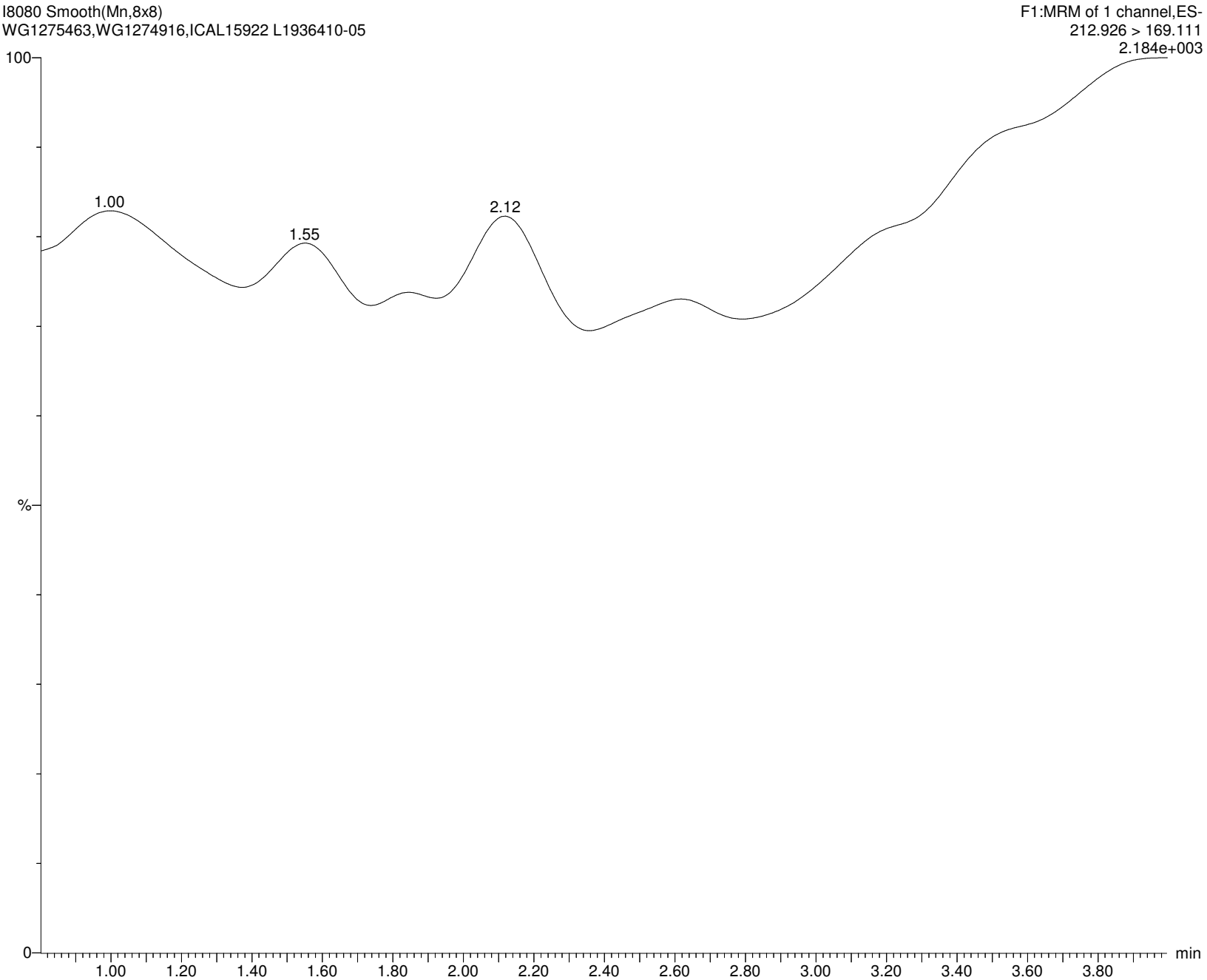
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Printed: Friday, August 23, 2019 09:51:35 Eastern Daylight Time

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Calibration: C:\MassLynx\Data\2019\190822_537ISO.PRO\CurveDB\190702_ISO_ICAL.cdb 02 Jul 2019 11:07:37

Name: I8080
ID: L1936410-05
Date: 22-Aug-2019
Time: 15:47:51
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:D,2
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
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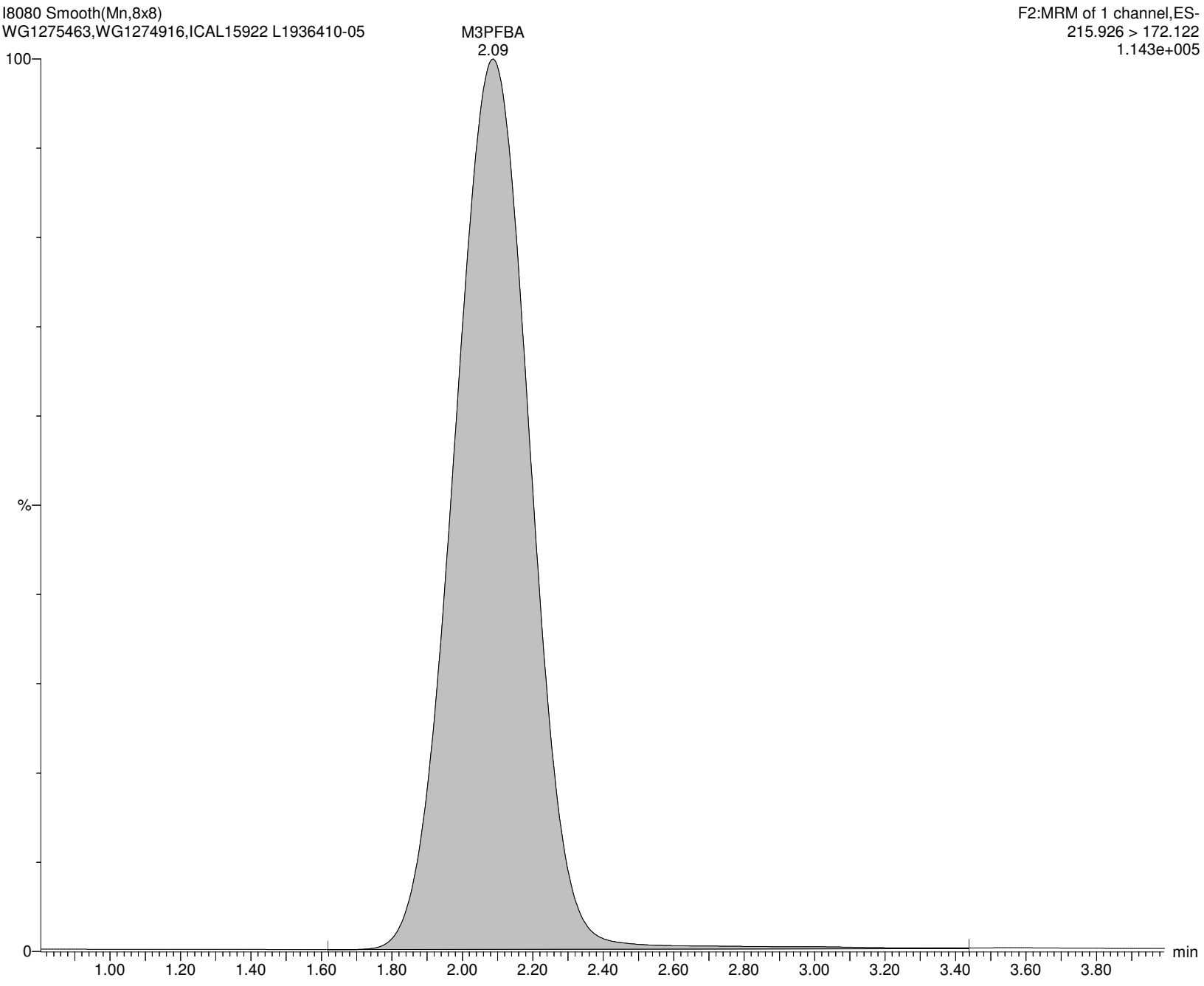


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Name: I8080
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Date: 22-Aug-2019
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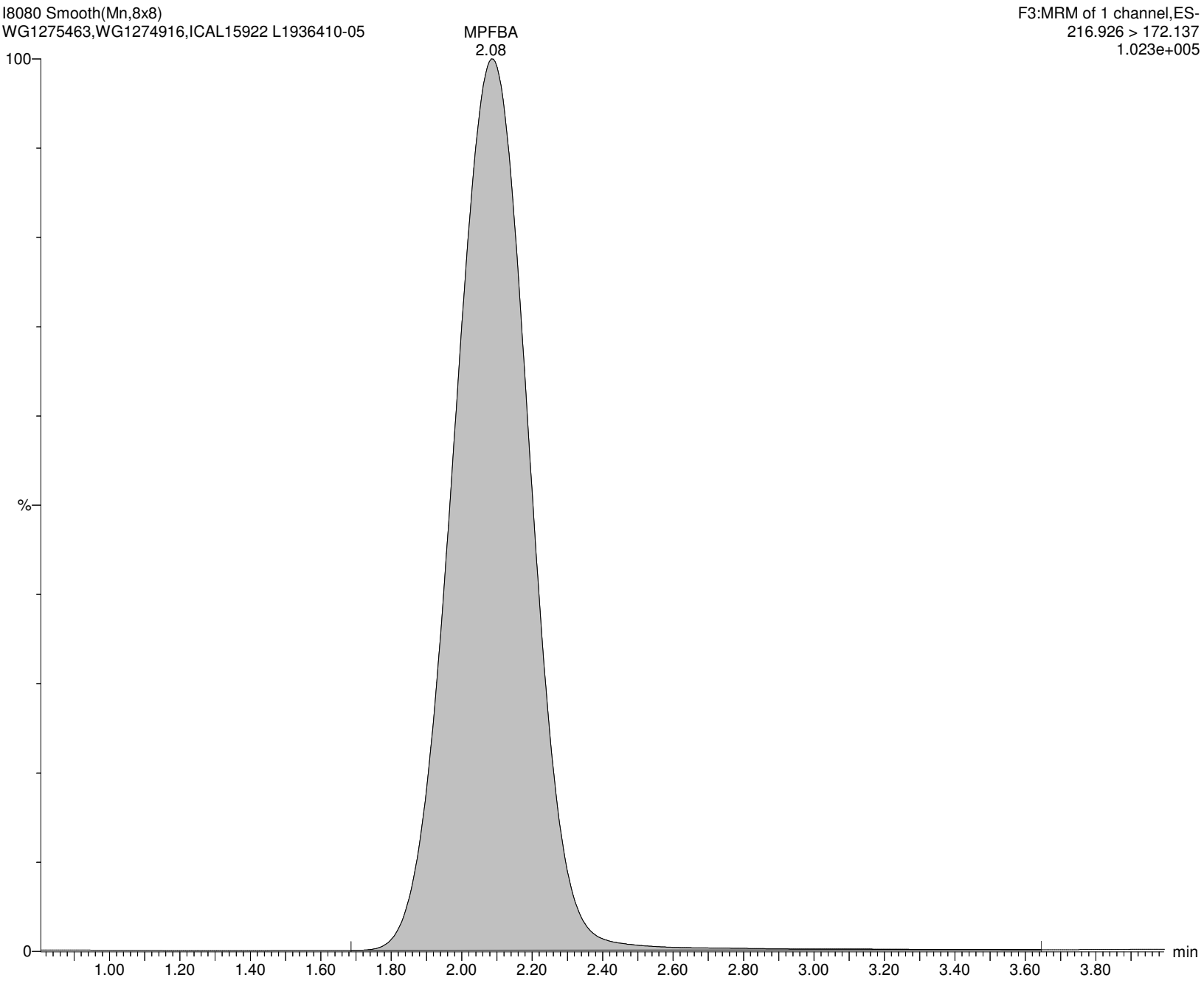


all concentration units in (ng/mL)

Alpha Analytical Inc.
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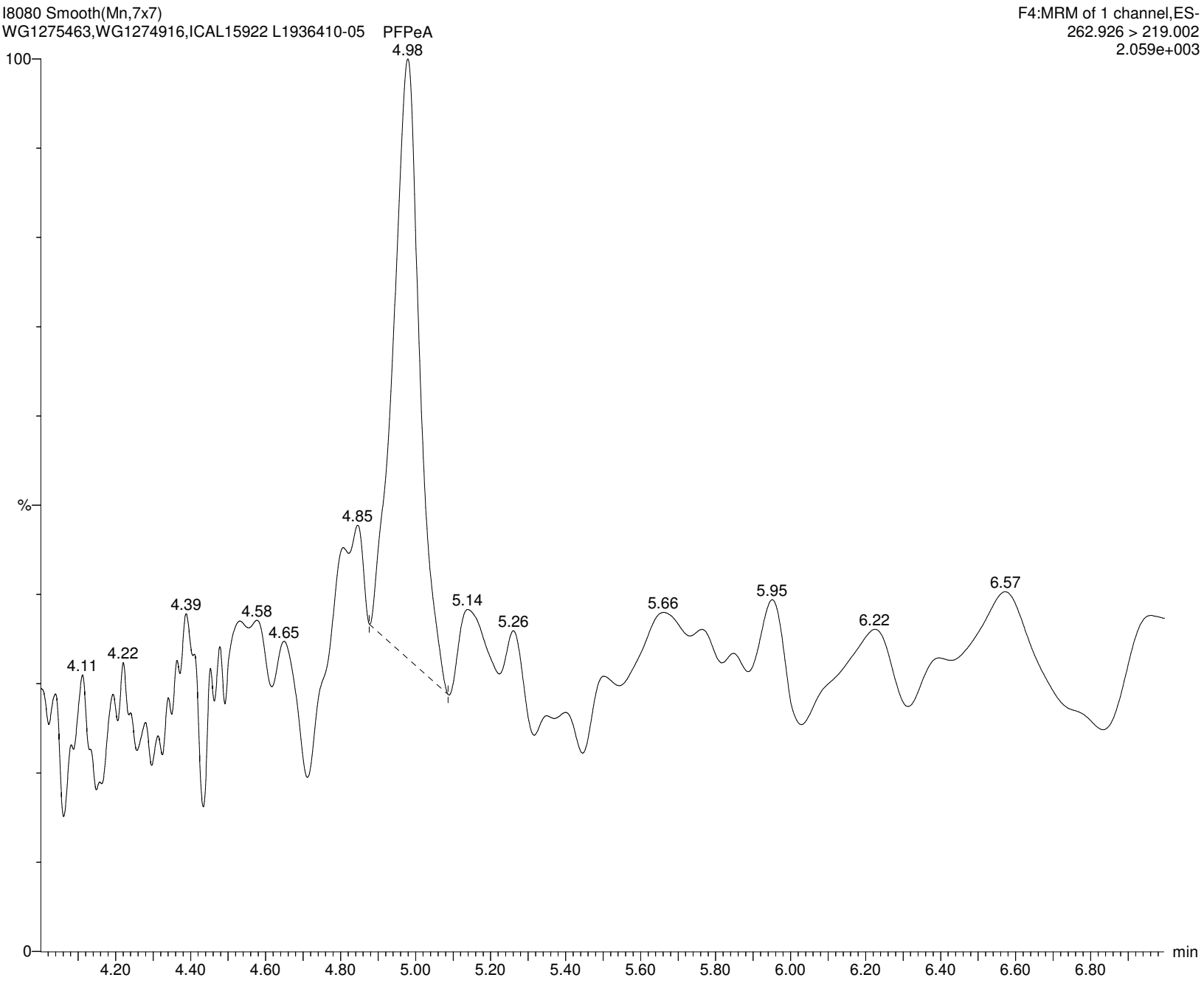


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Name: I8080
ID: L1936410-05
Date: 22-Aug-2019
Time: 15:47:51
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User: LCMS02:JW
Vial: 1:D,2
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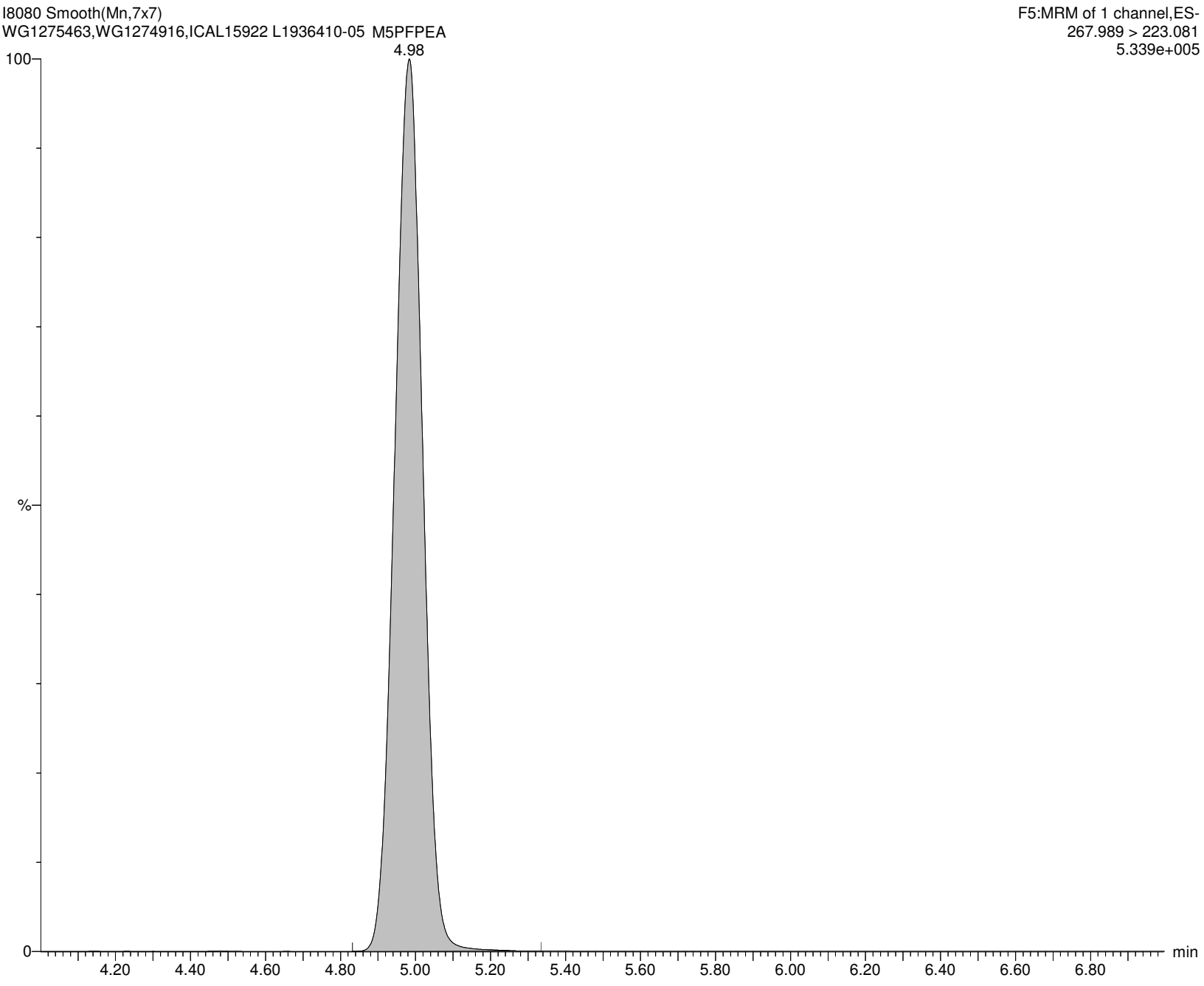


all concentration units in (ng/mL)

Alpha Analytical Inc.
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ID: L1936410-05
Date: 22-Aug-2019
Time: 15:47:51
Description: WG1275463,WG1274916,ICAL15922
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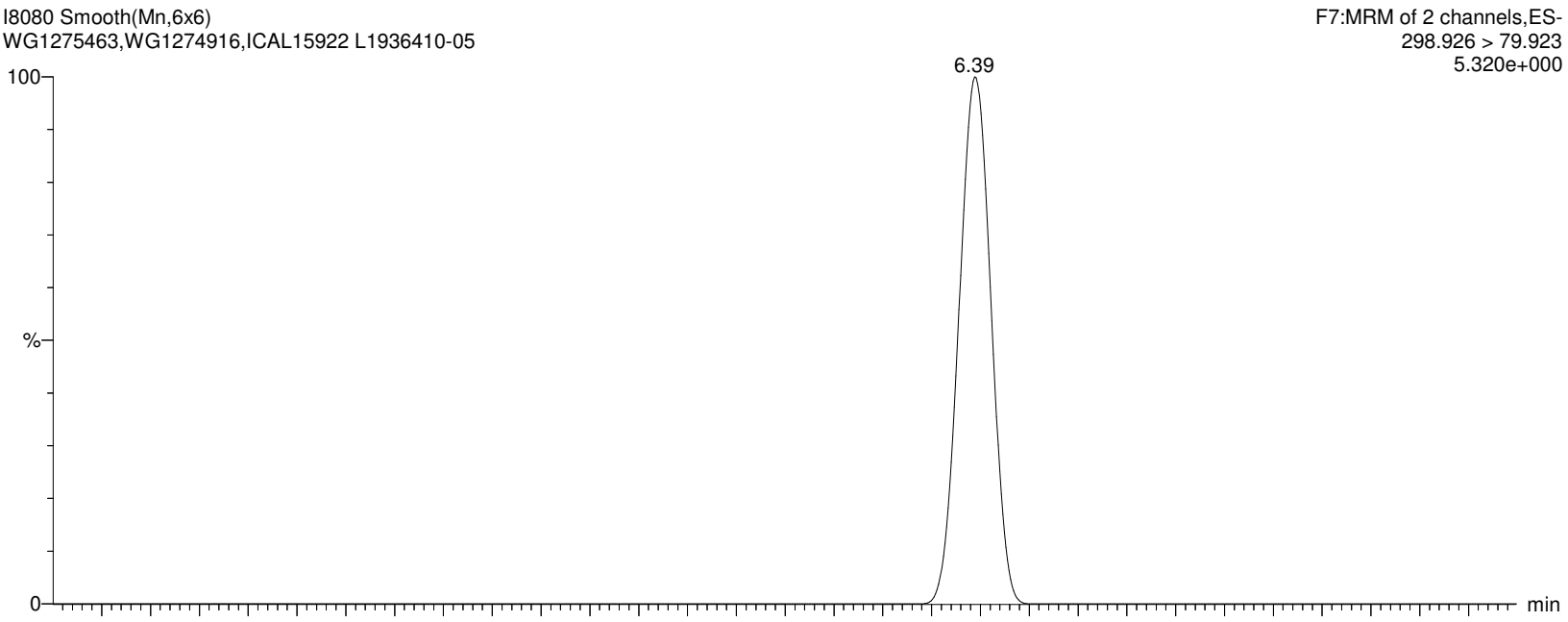


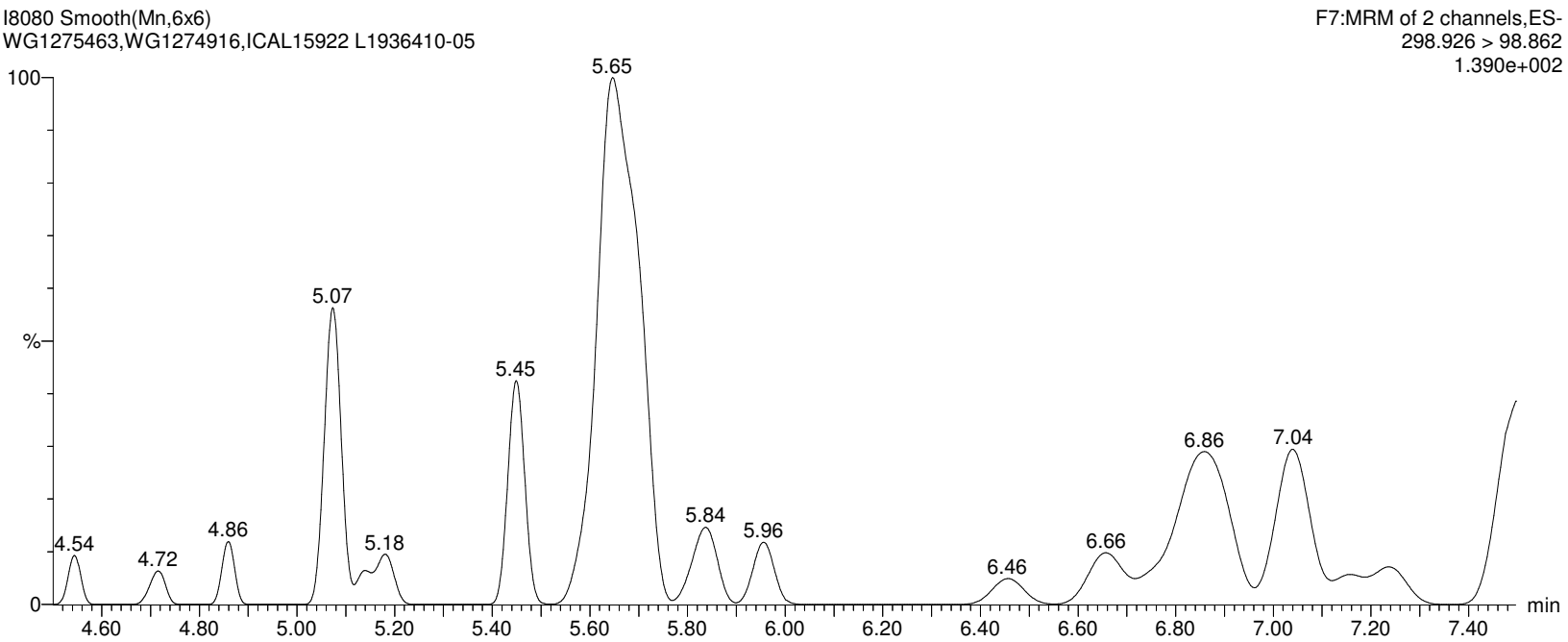
all concentration units in (ng/mL)

Alpha Analytical Inc.
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PFBS



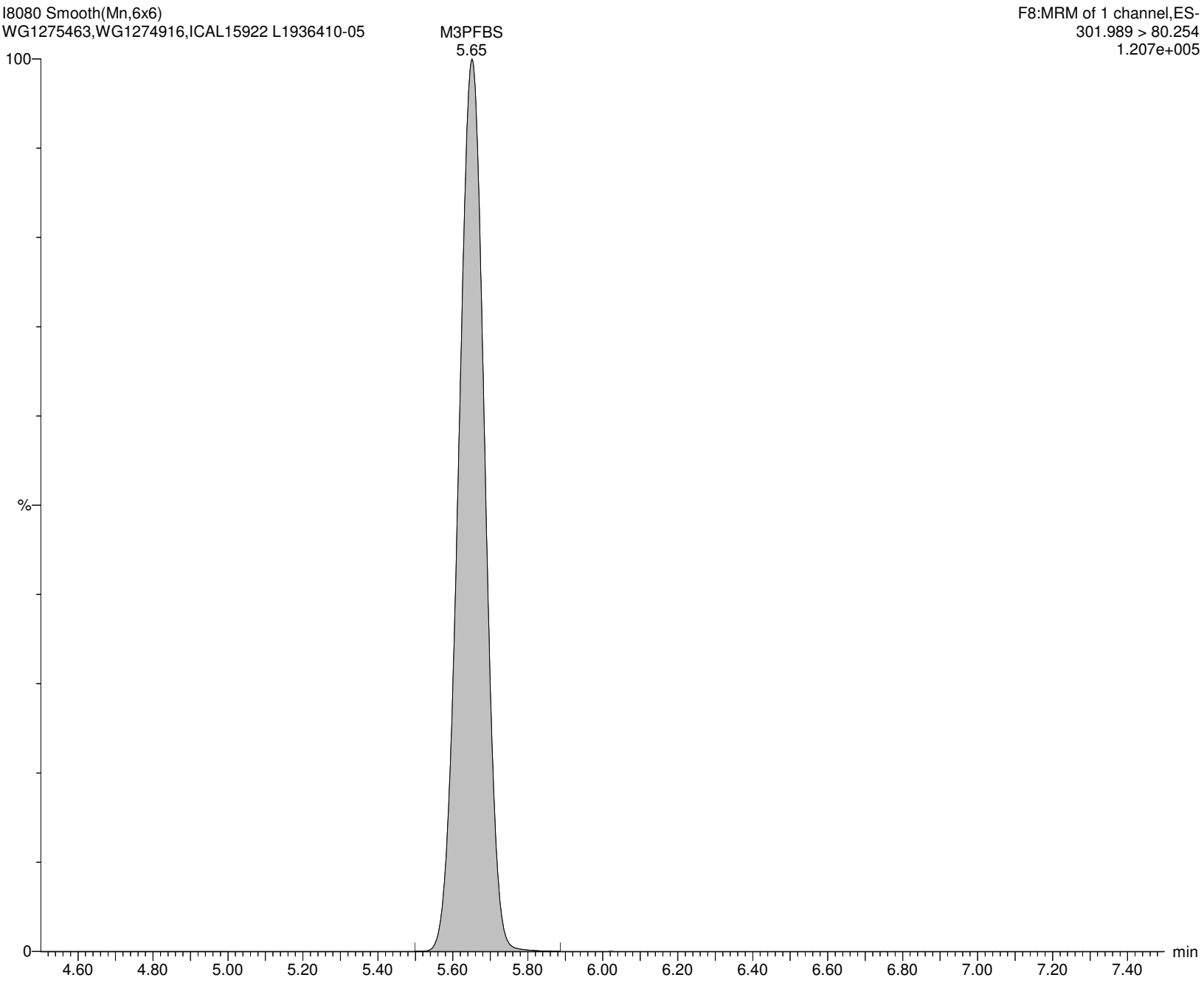


all concentration units in (ng/mL)

Alpha Analytical Inc.
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User: LCMS02:JW
Vial: 1:D,2
Instrument: XEVO-TQSmicro#QEB0050
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M3PFBS



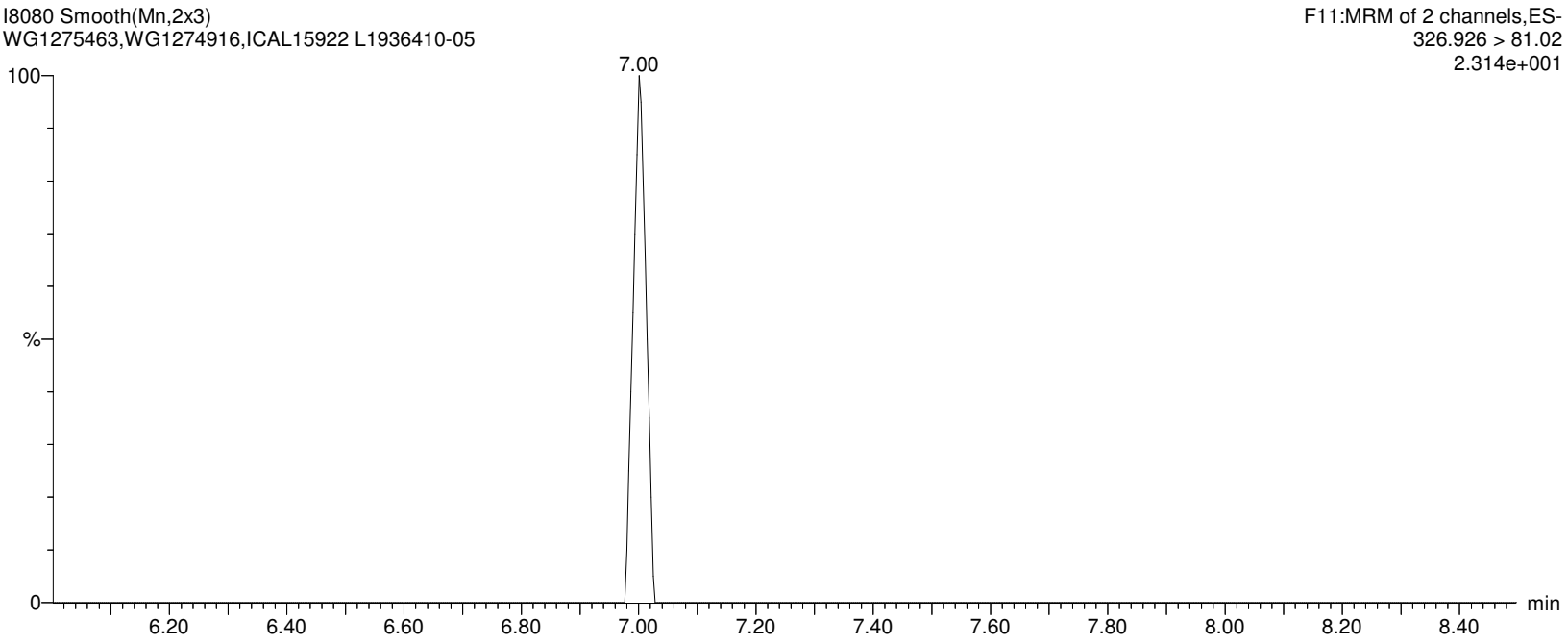
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\wg1275463b.qld
Last Altered: Friday, August 23, 2019 09:51:17 Eastern Daylight Time
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Name: I8080
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User: LCMS02:JW
Vial: 1:D,2
Instrument: XEVO-TQSmicro#QEB0050
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4:2FTS



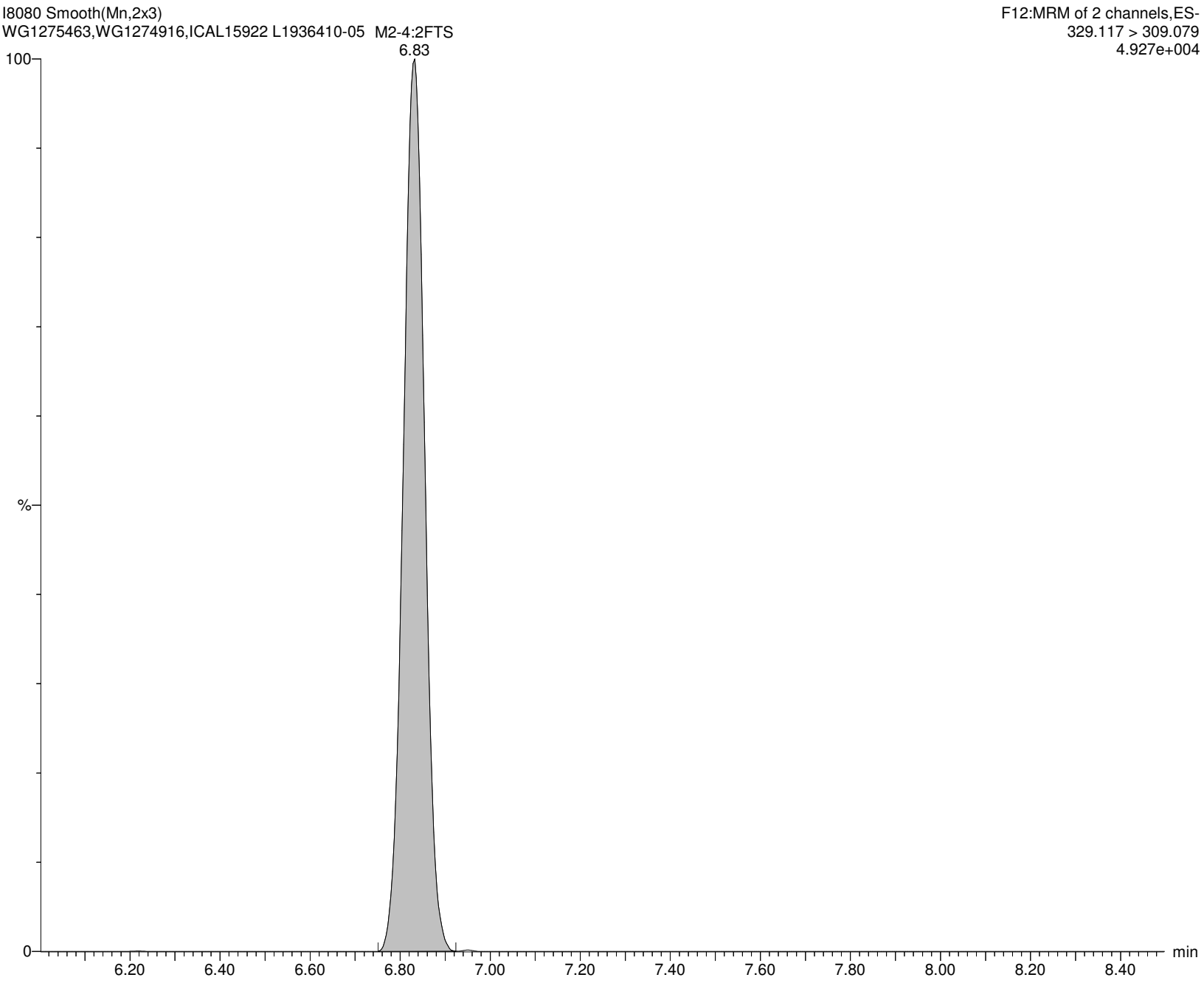


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\wg1275463b.qld
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Name: I8080
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User: LCMS02:JW
Vial: 1:D,2
Instrument: XEVO-TQSmicro#QEB0050
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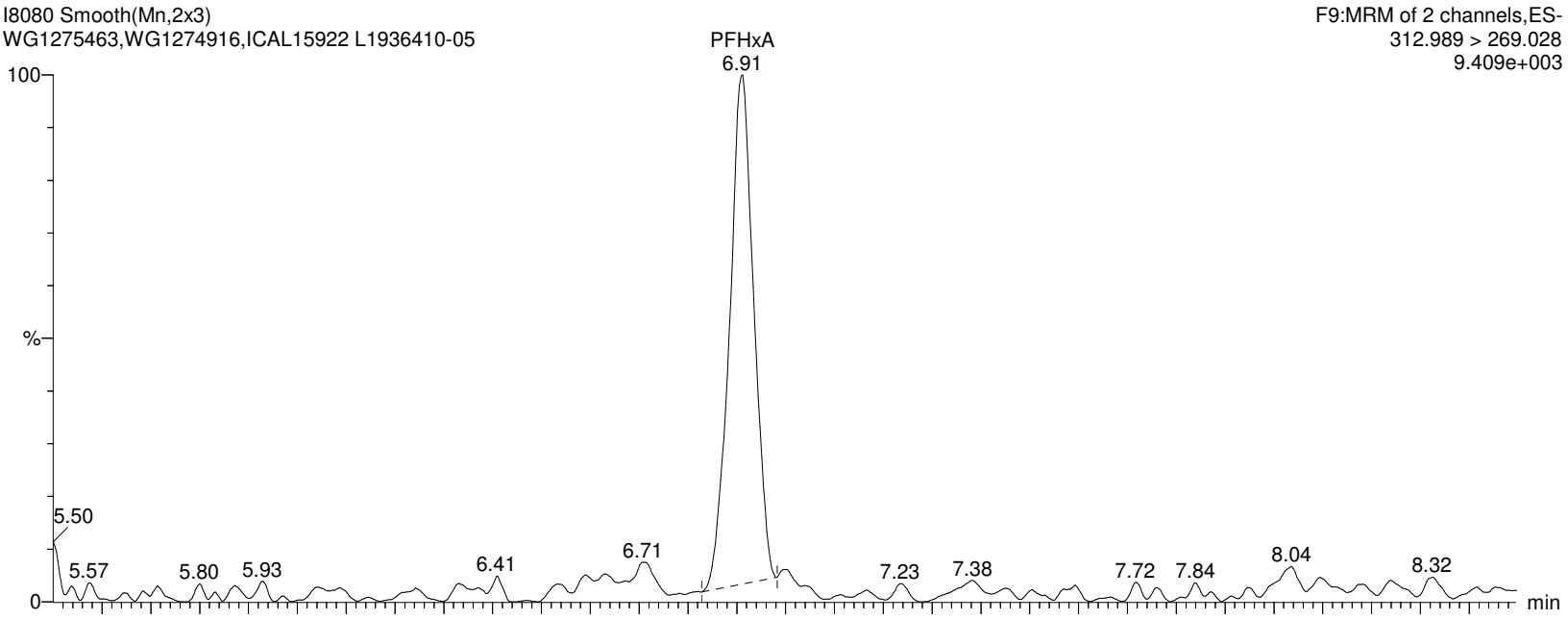


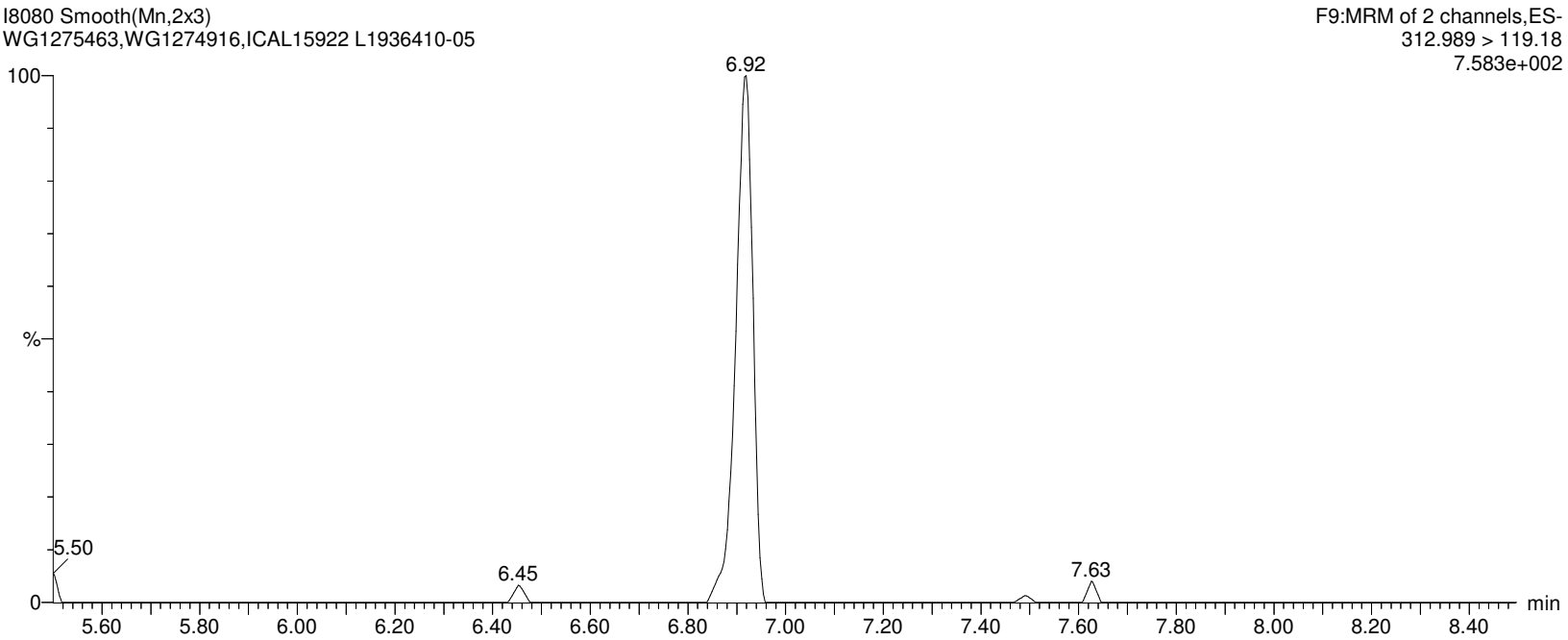
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\wg1275463b.qld
Last Altered: Friday, August 23, 2019 09:51:17 Eastern Daylight Time
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Vial: 1:D,2
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Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
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PFHxA



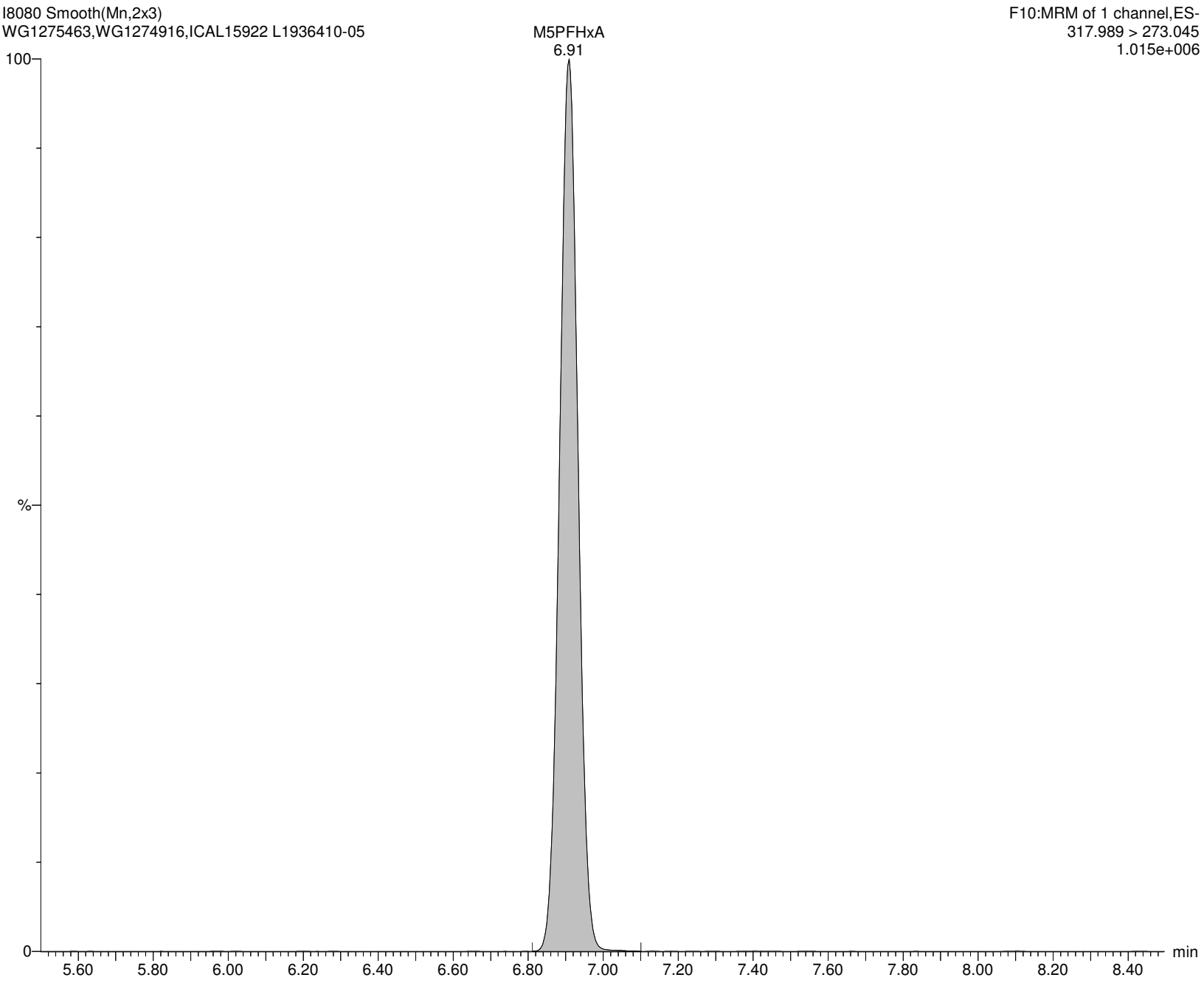


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, August 23, 2019 09:51:17 Eastern Daylight Time
Printed: Friday, August 23, 2019 09:51:35 Eastern Daylight Time

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ID: L1936410-05
Date: 22-Aug-2019
Time: 15:47:51
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:D,2
Instrument: XEVO-TQSmicro#QEB0050
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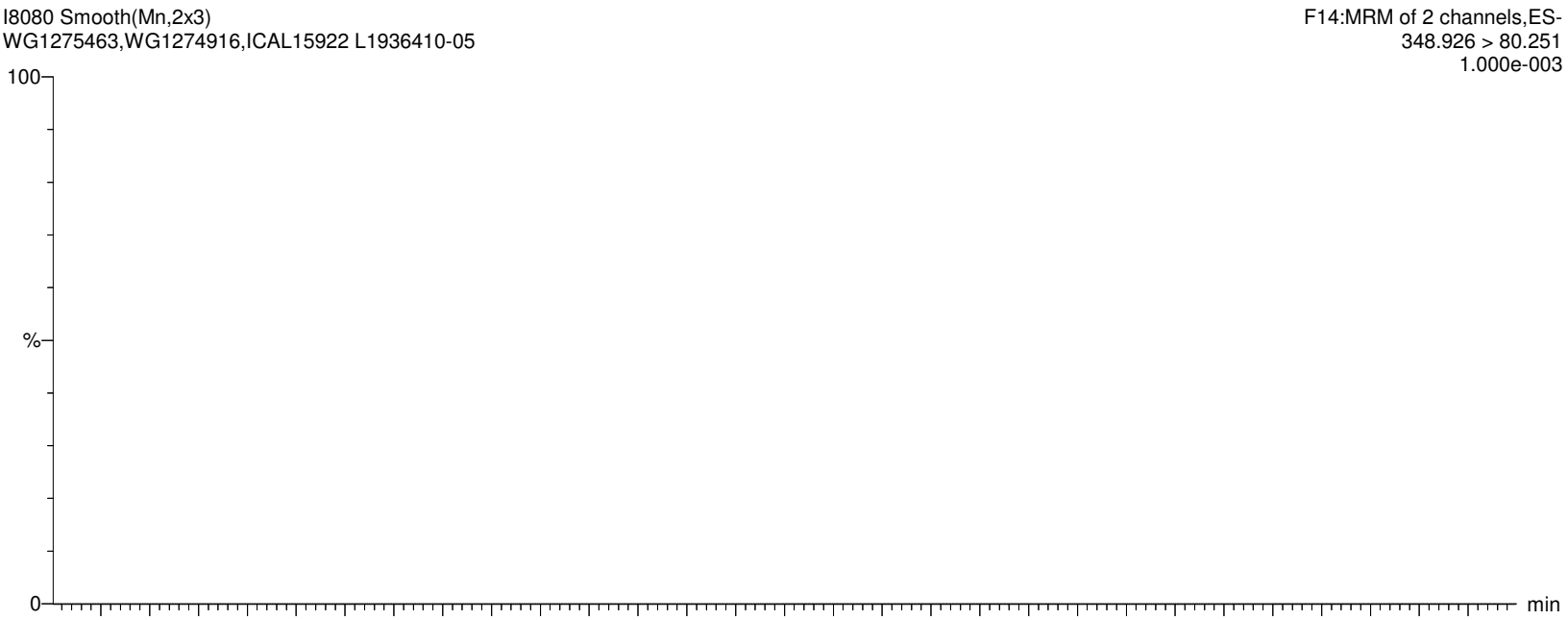


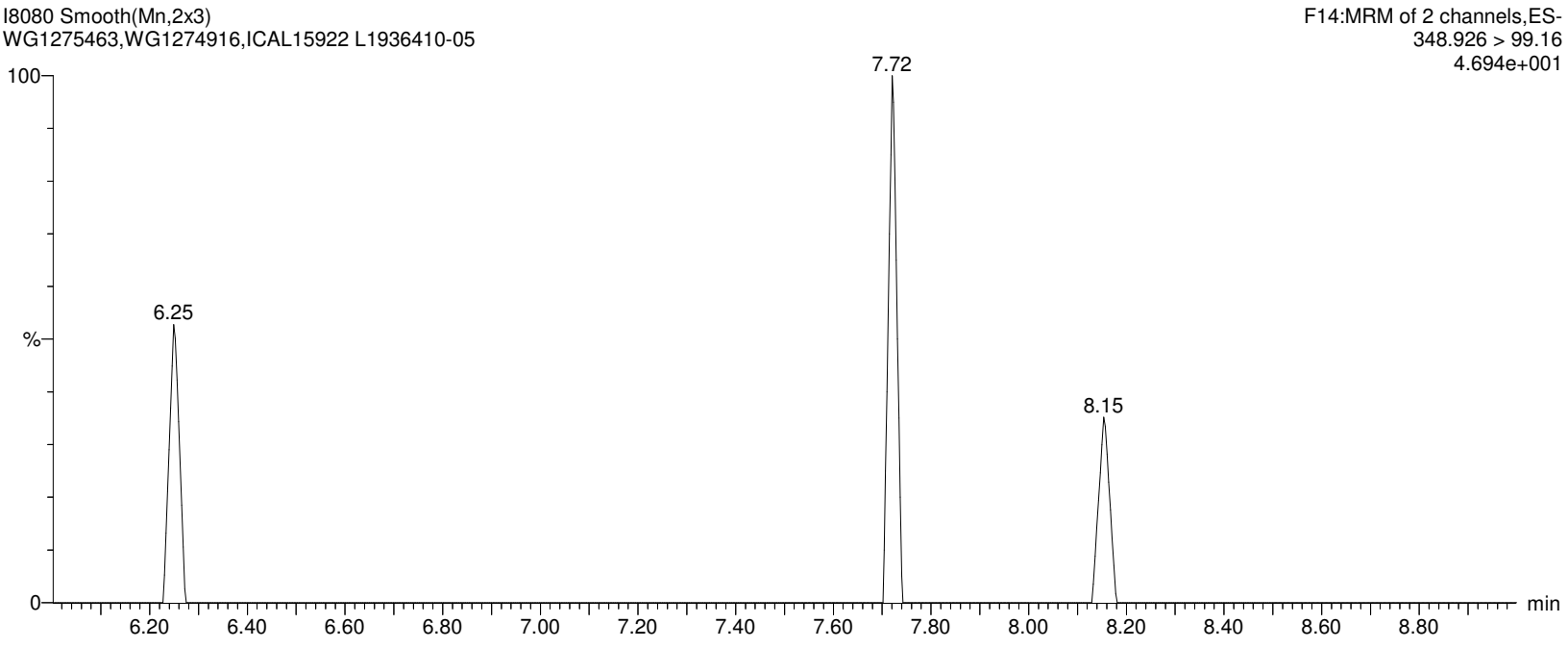
all concentration units in (ng/mL)

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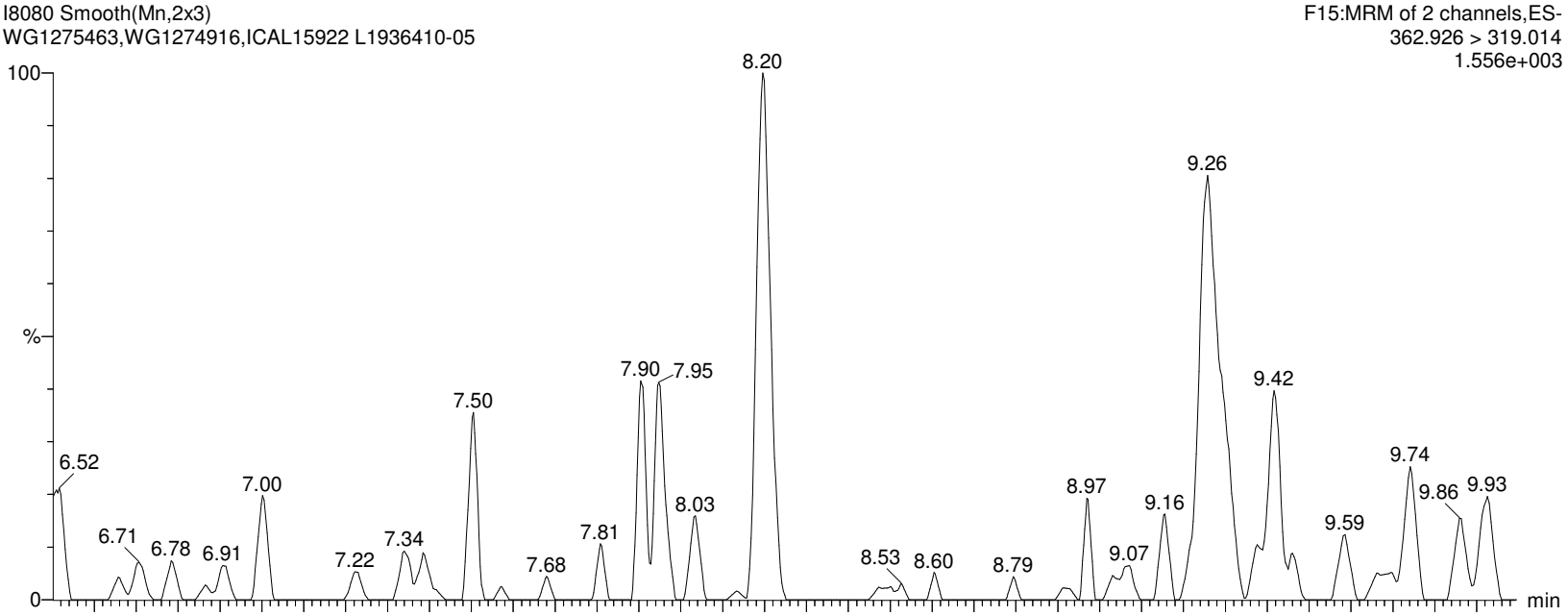


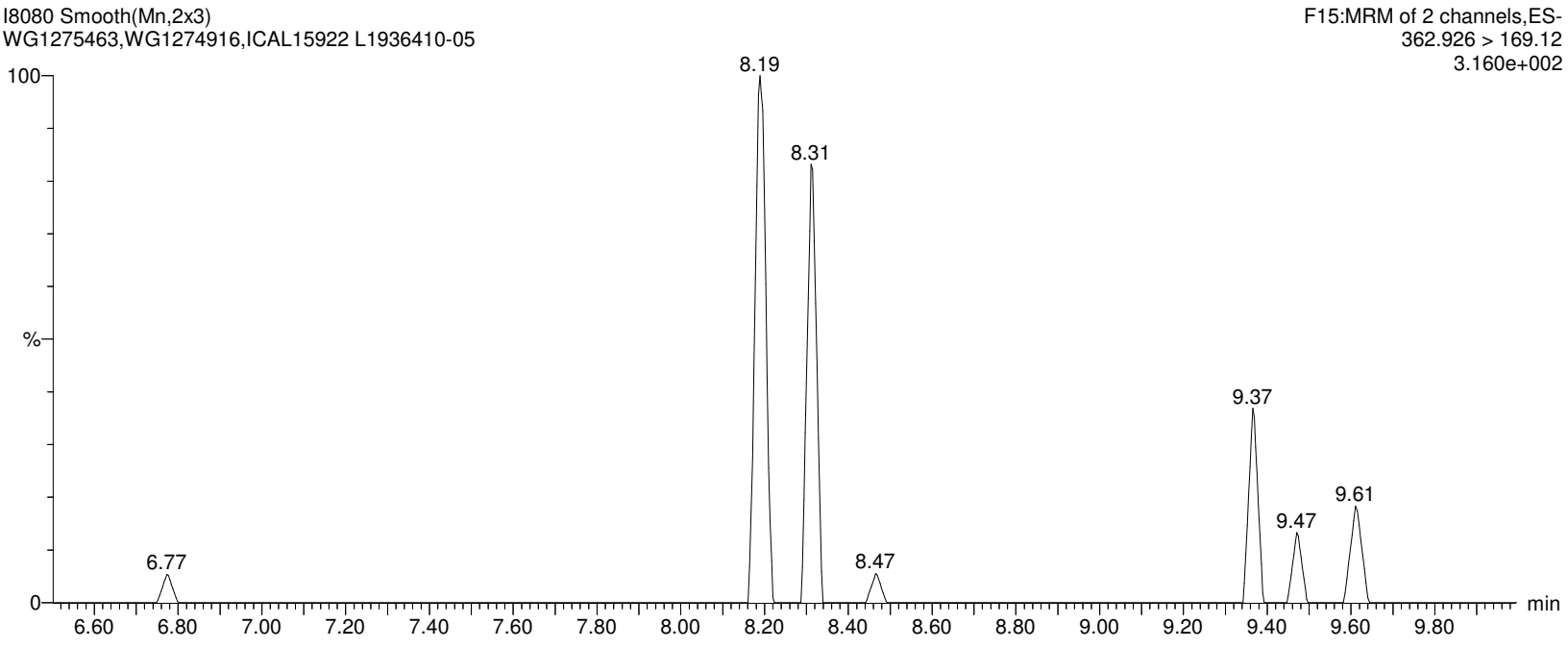
all concentration units in (ng/mL)

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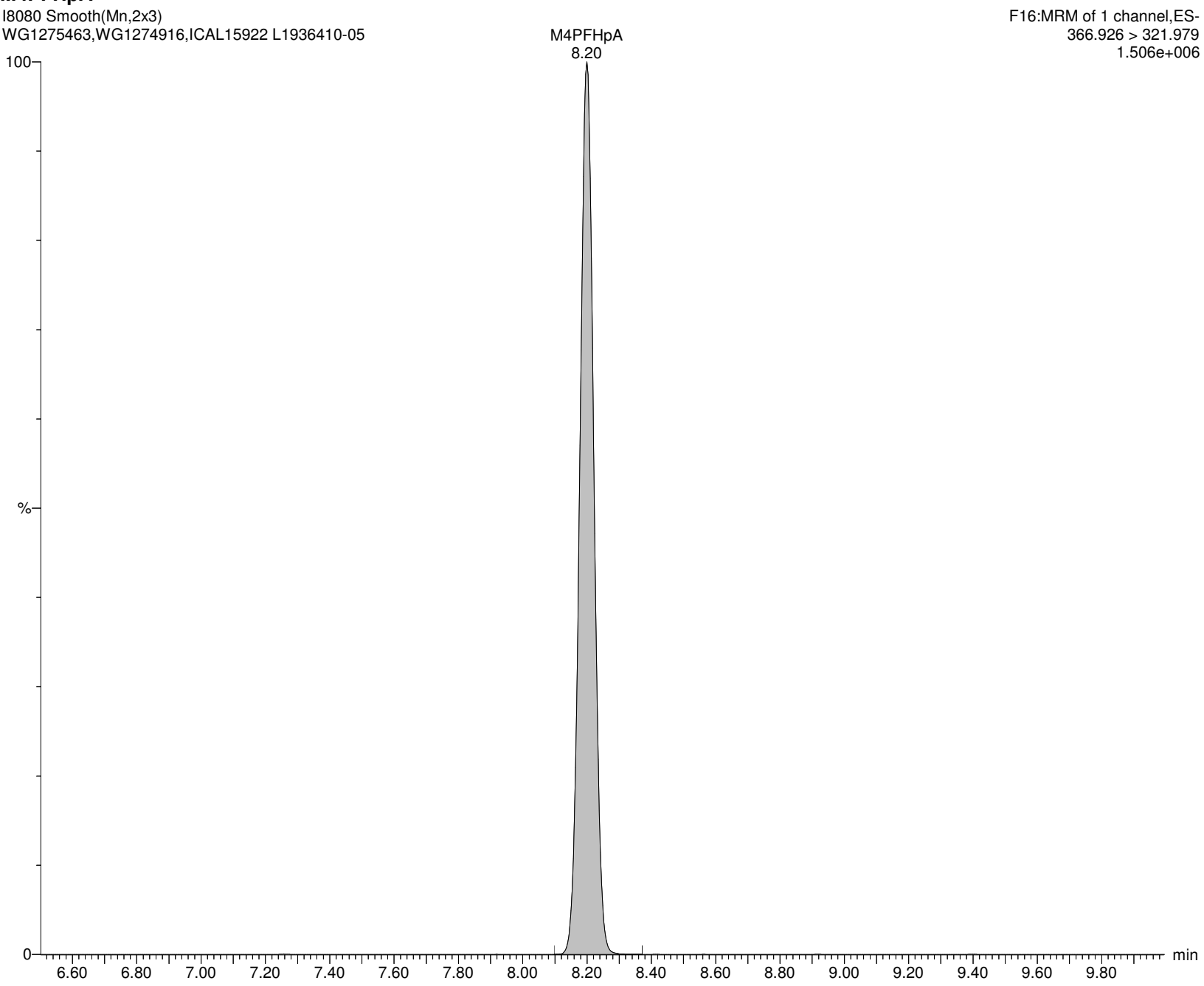


all concentration units in (ng/mL)

Alpha Analytical Inc.
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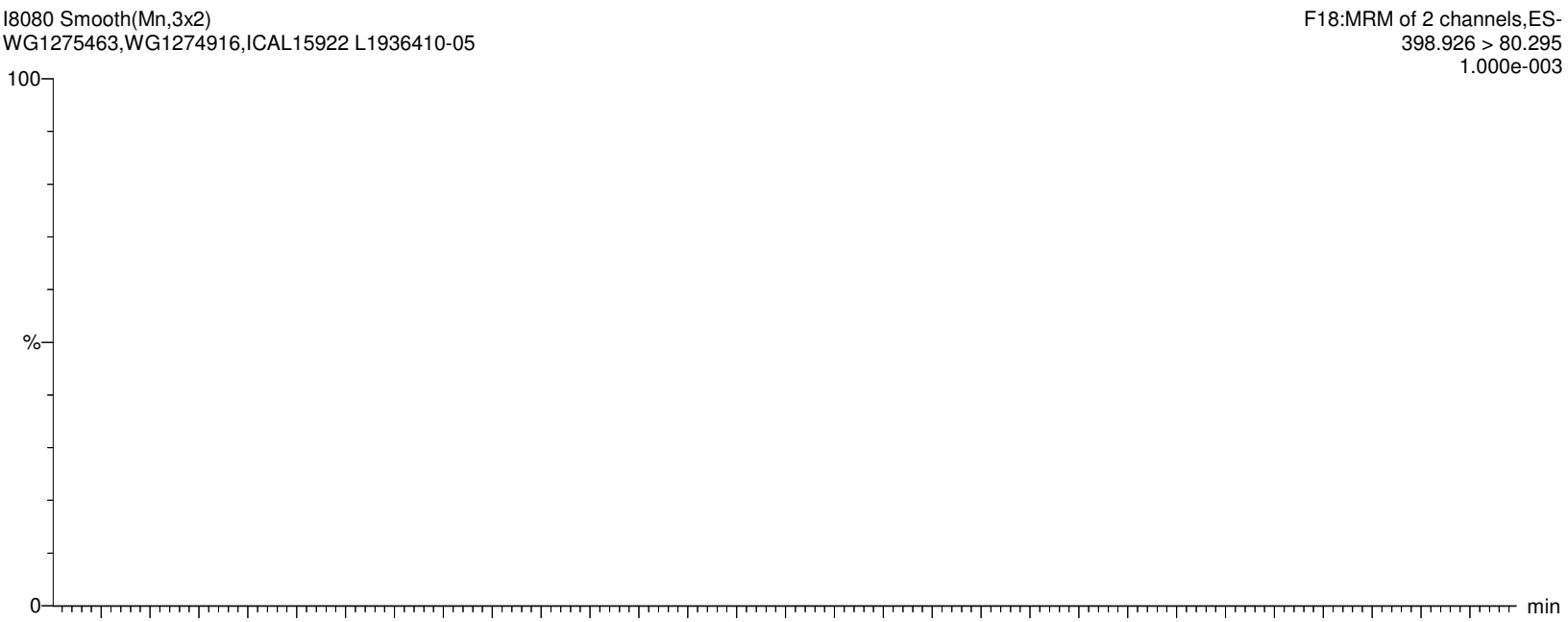


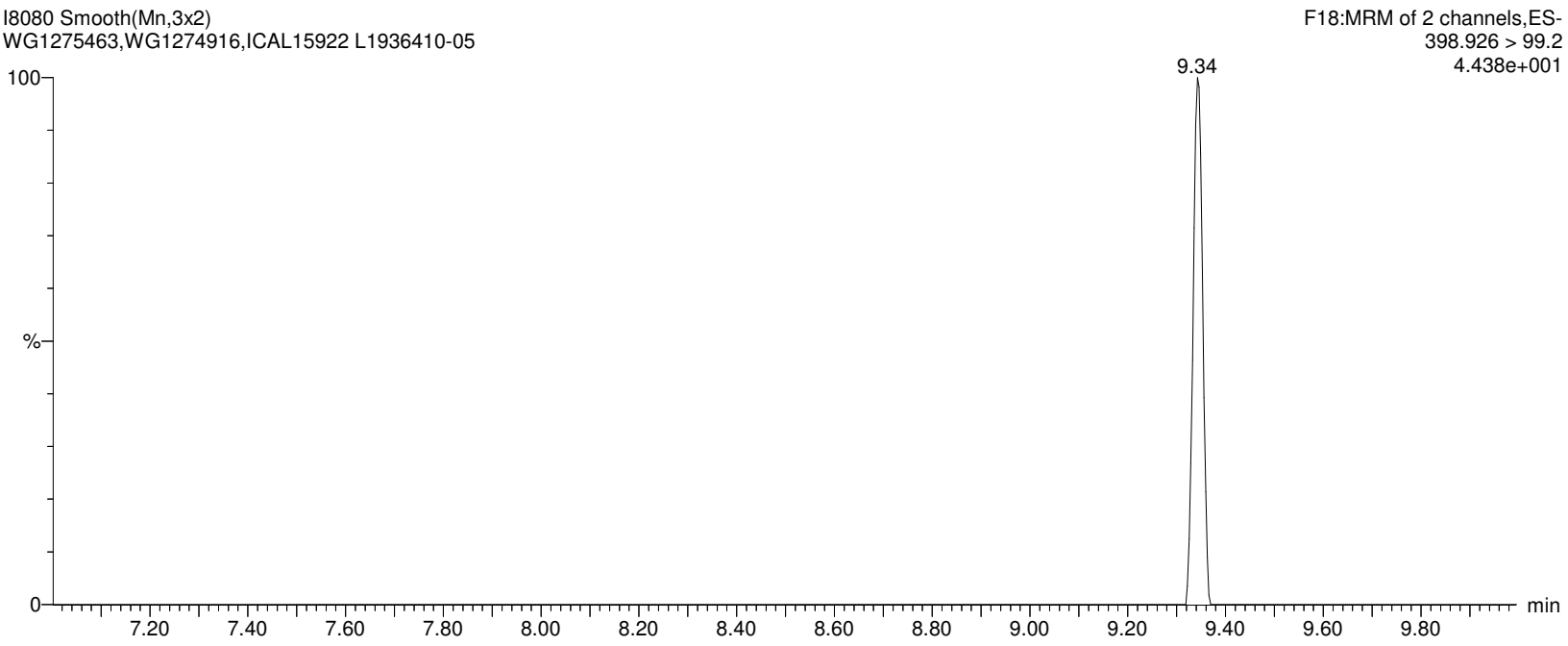
all concentration units in (ng/mL)

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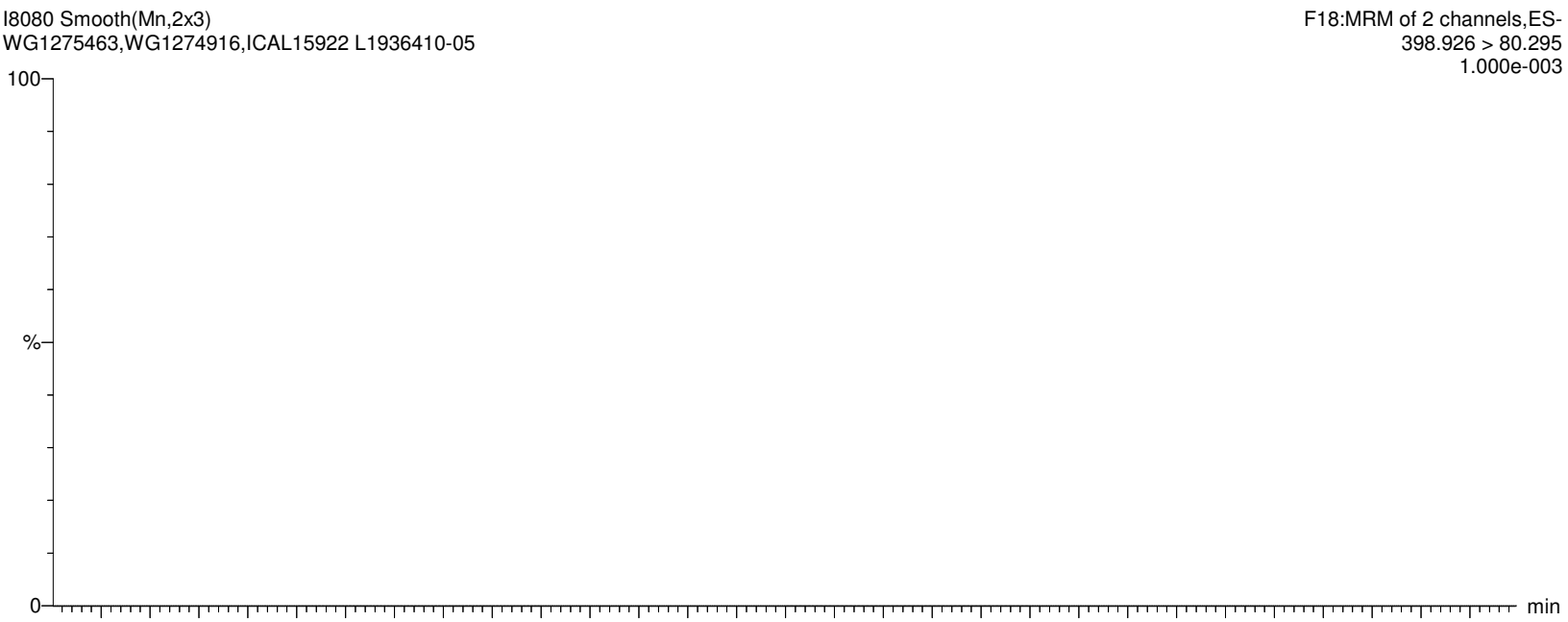


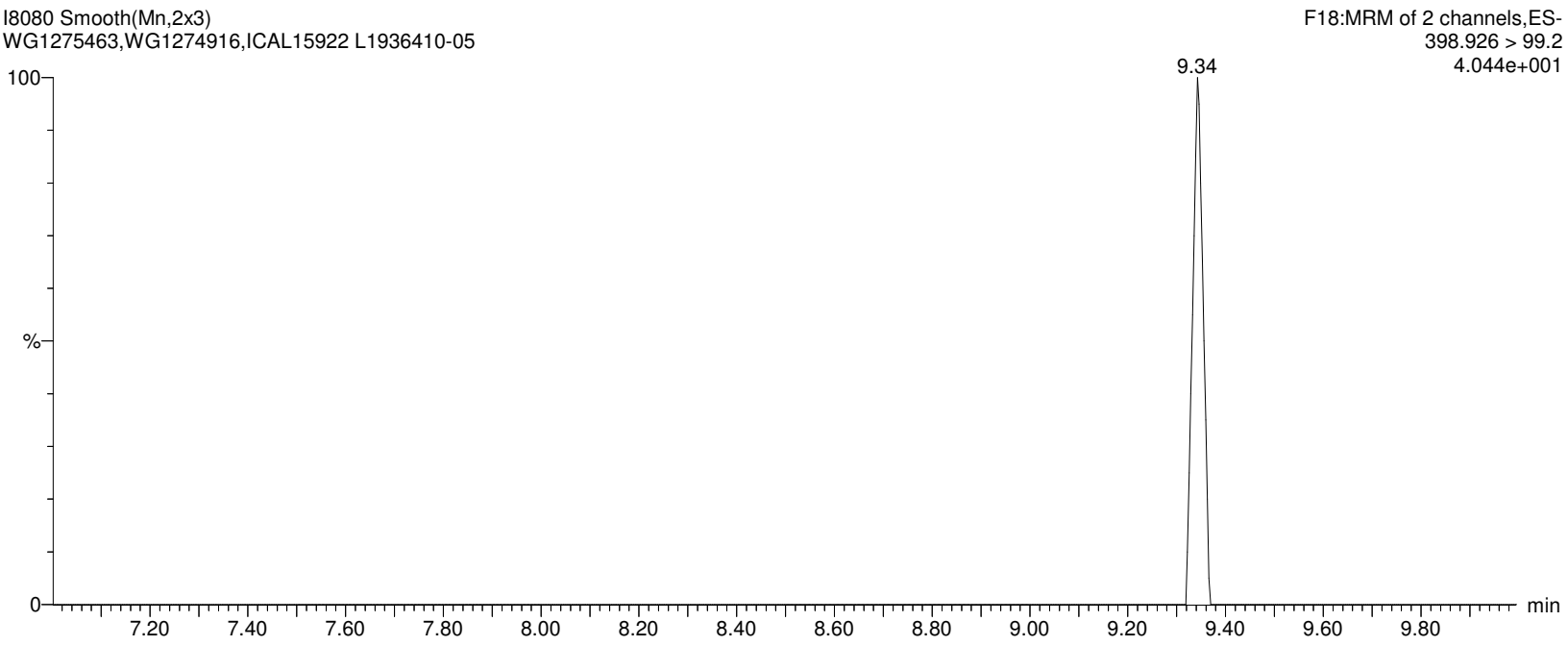
all concentration units in (ng/mL)

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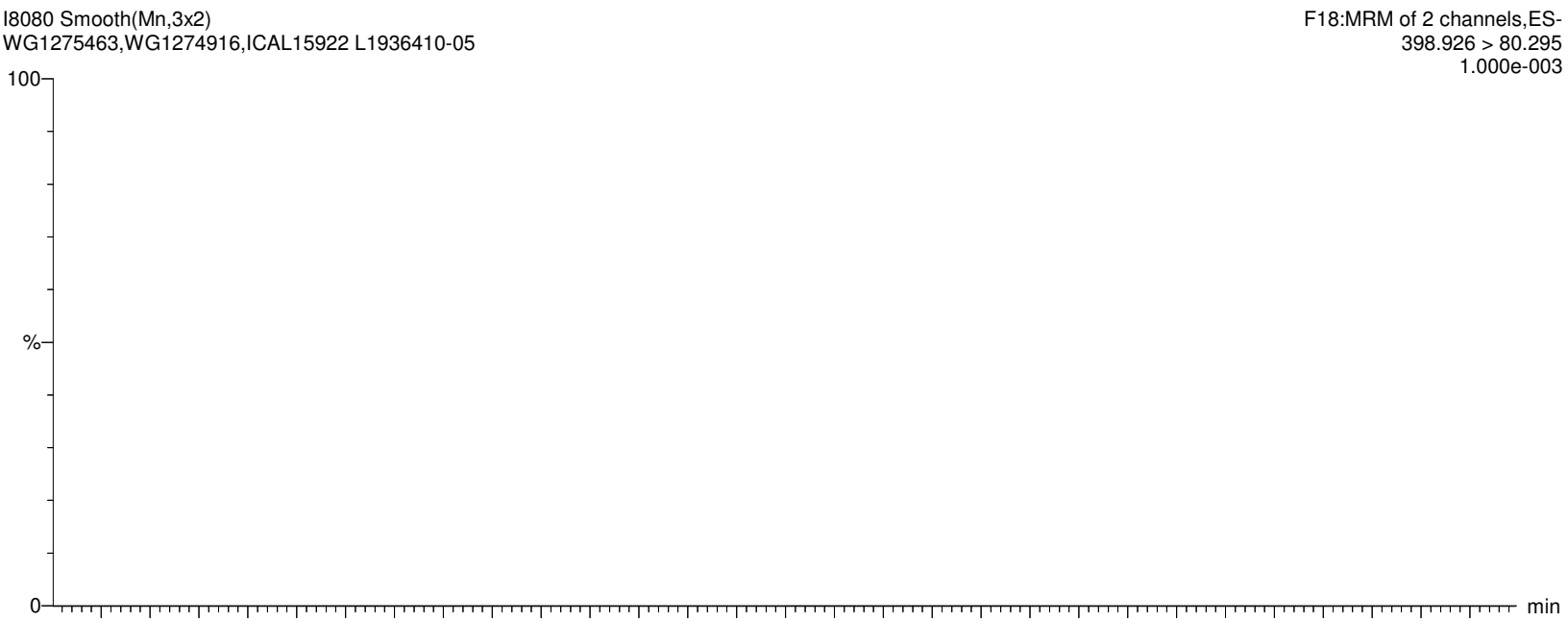


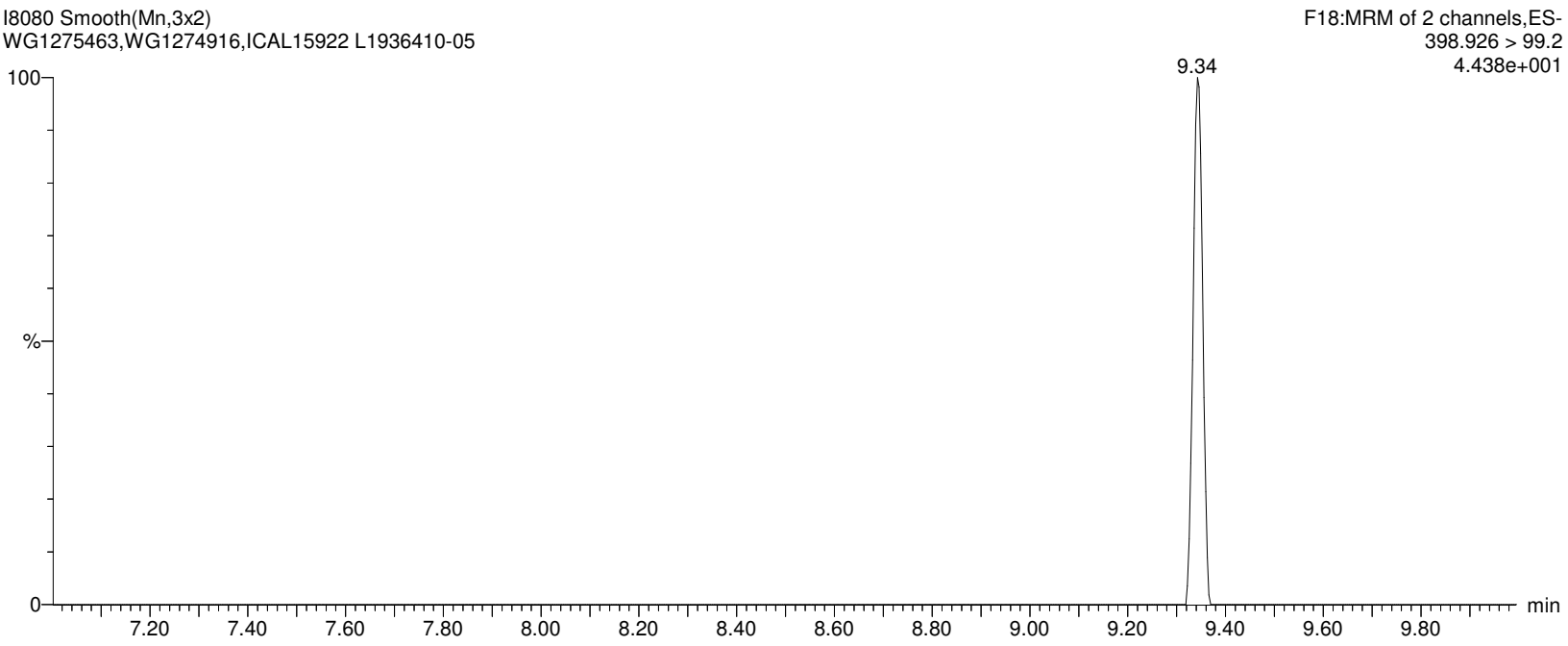
all concentration units in (ng/mL)

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PFHxS



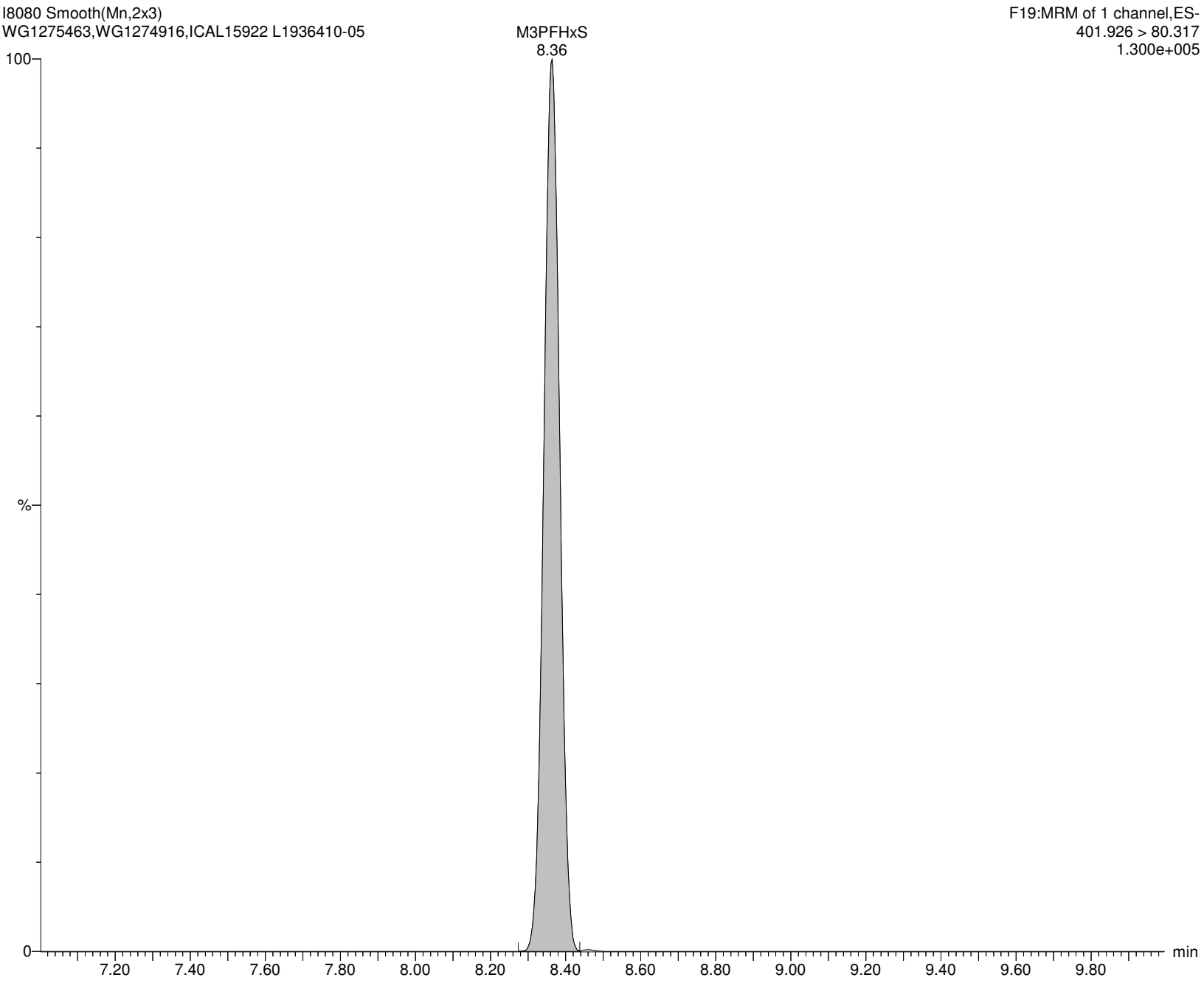


all concentration units in (ng/mL)

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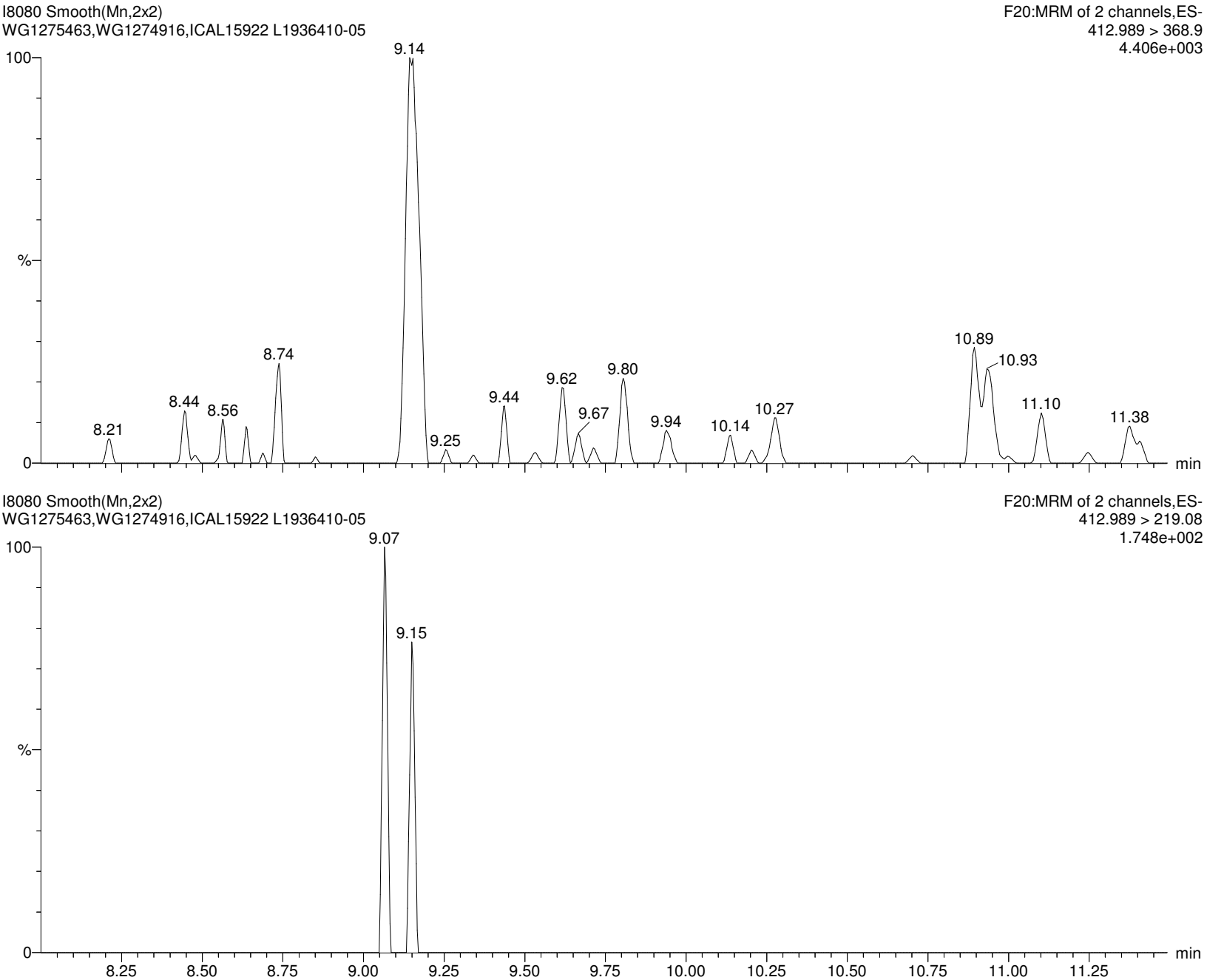


all concentration units in (ng/mL)

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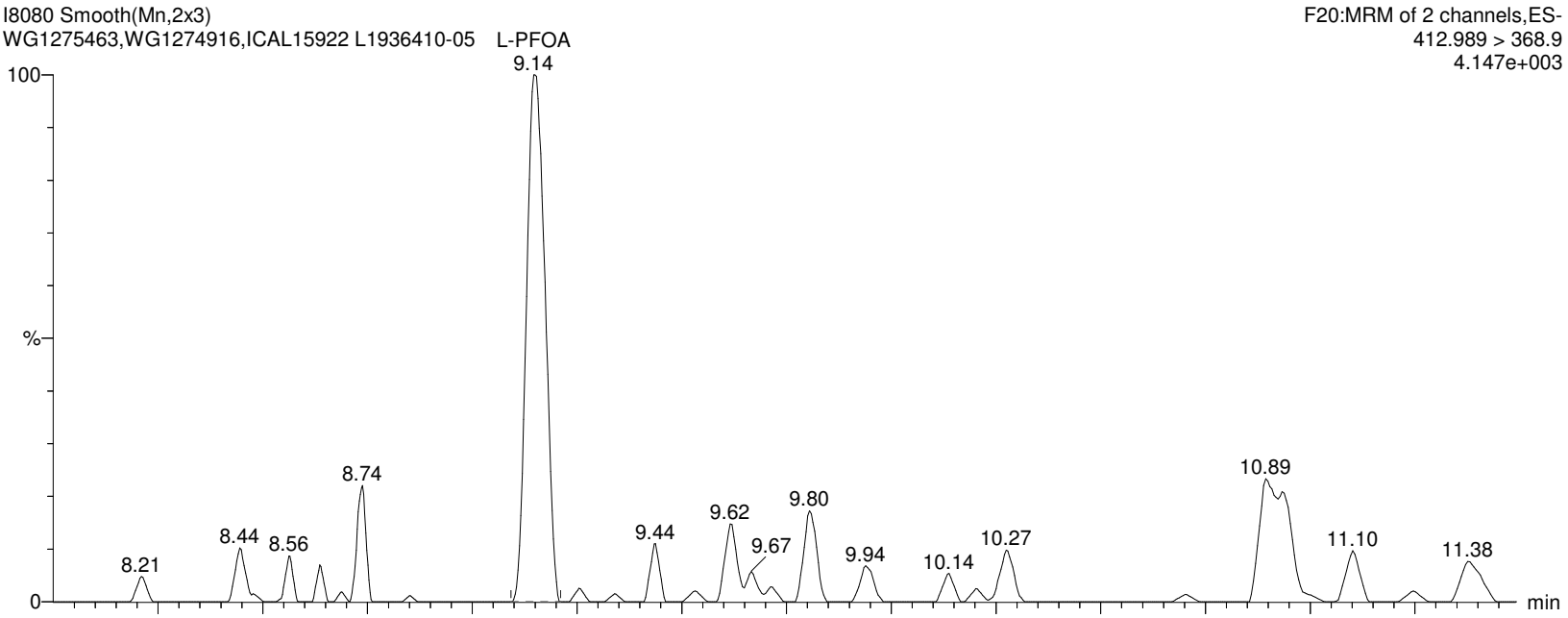


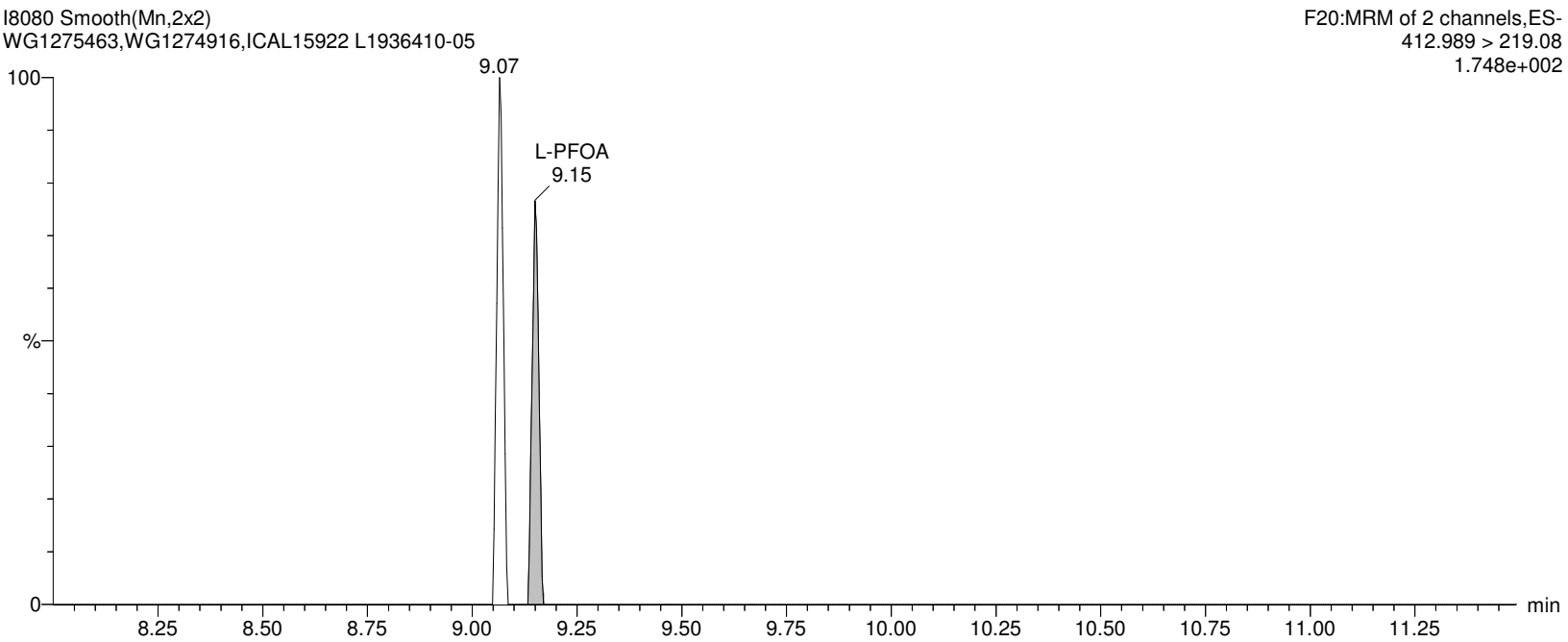
all concentration units in (ng/mL)

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L-PFOA



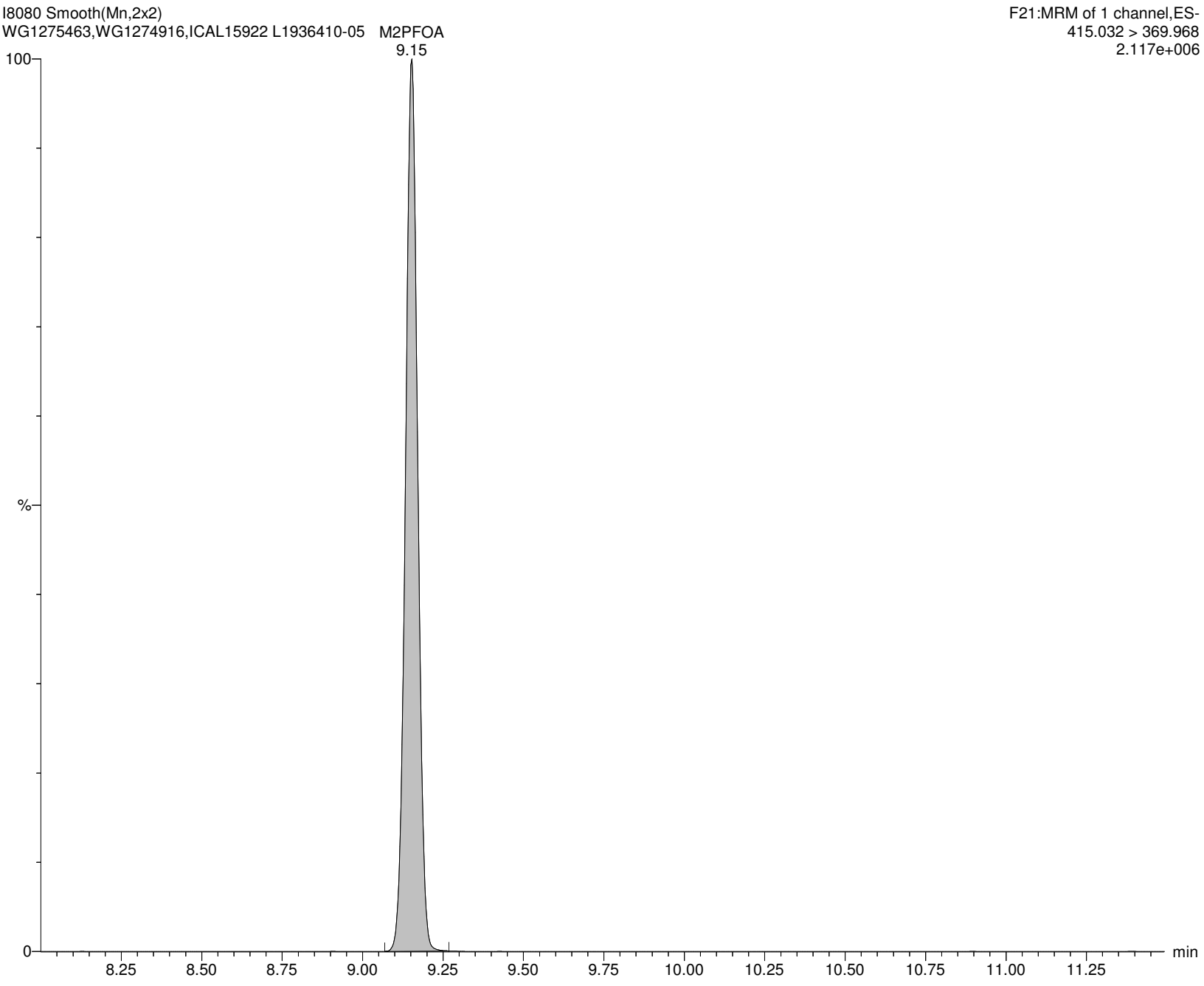


all concentration units in (ng/mL)

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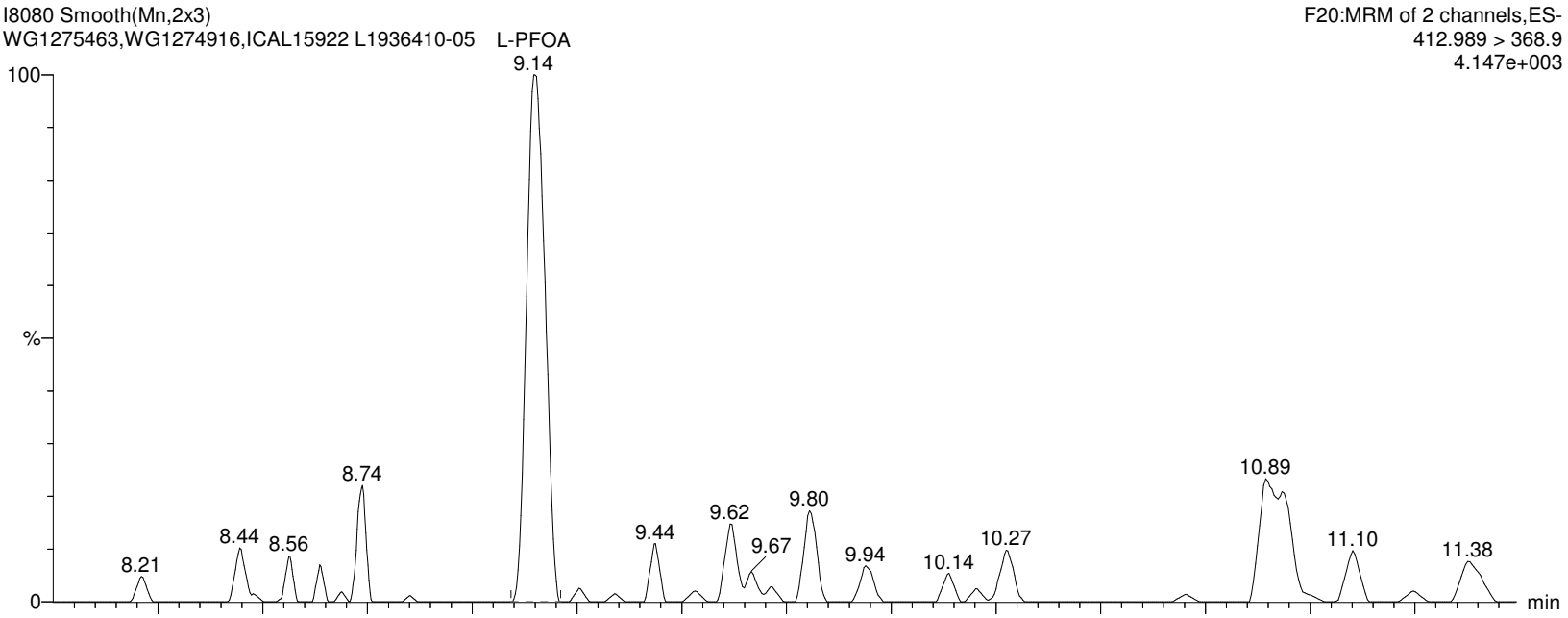


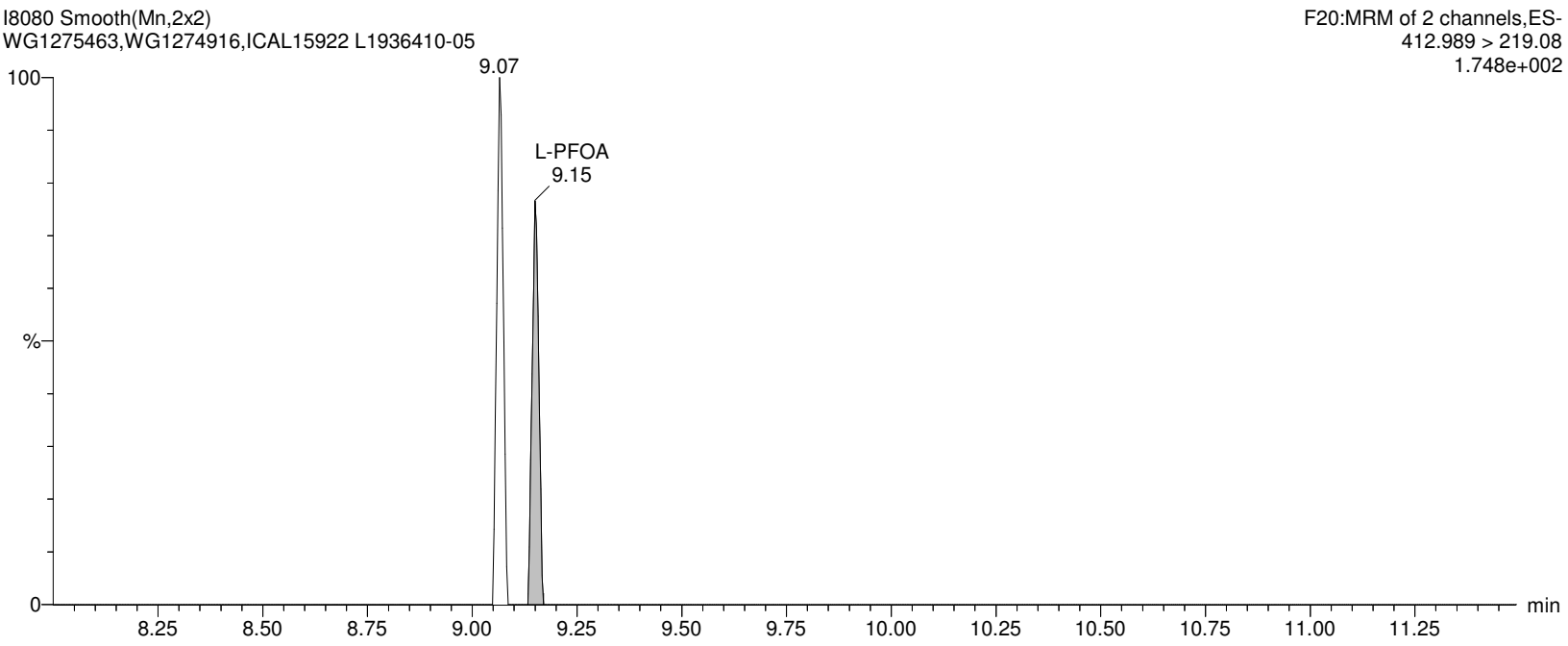
all concentration units in (ng/mL)

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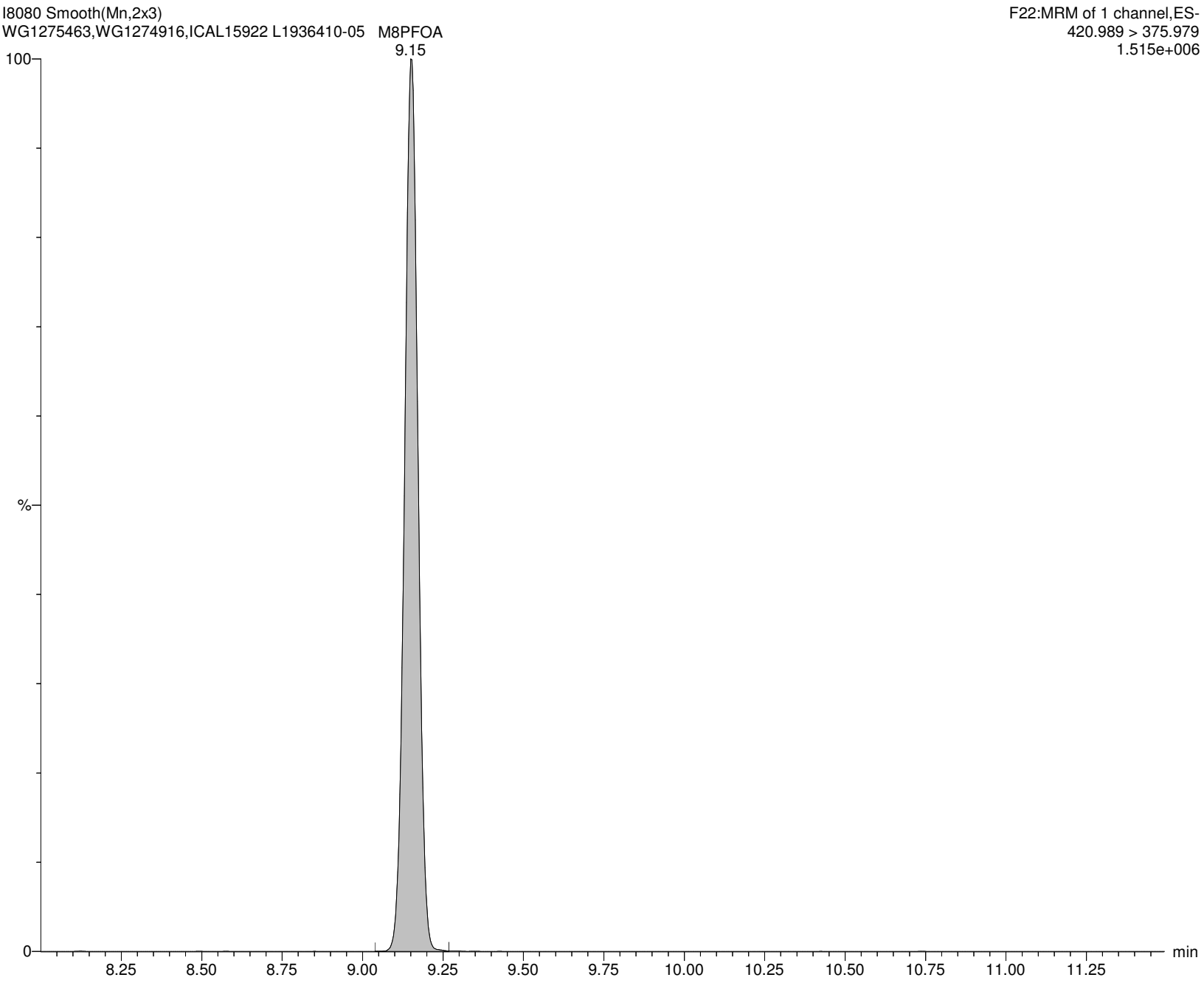


all concentration units in (ng/mL)

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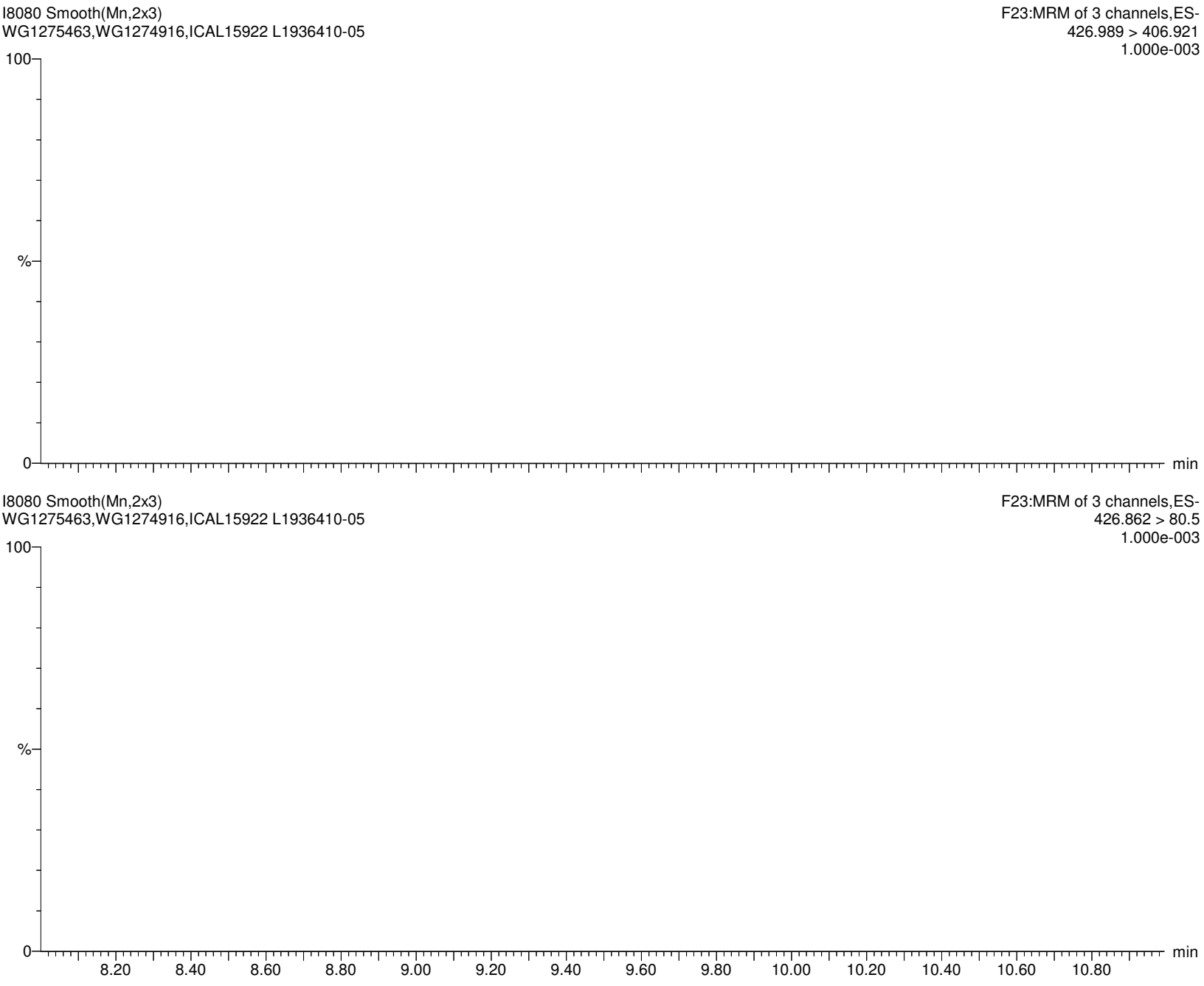


all concentration units in (ng/mL)

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6:2FTS

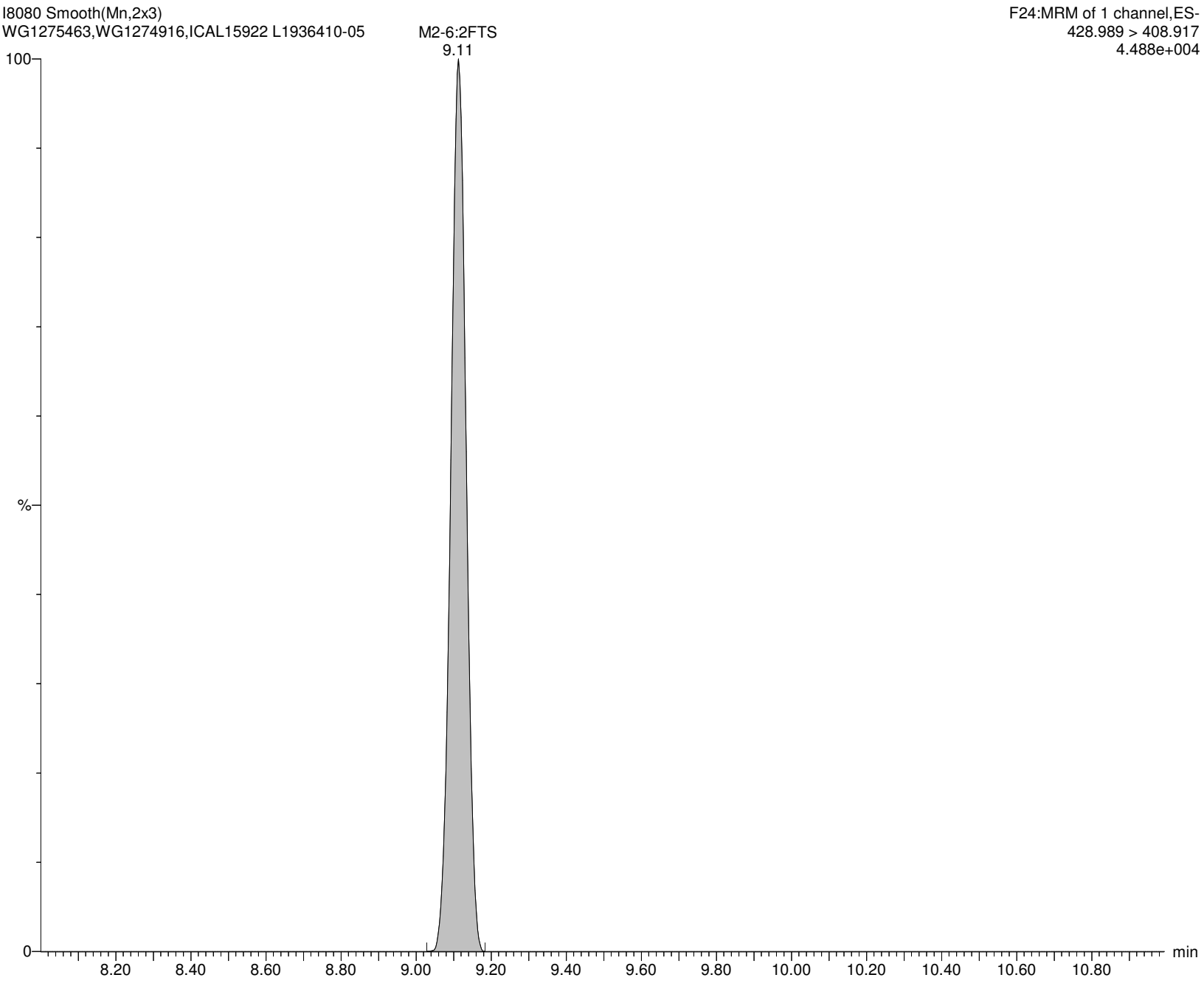


all concentration units in (ng/mL)

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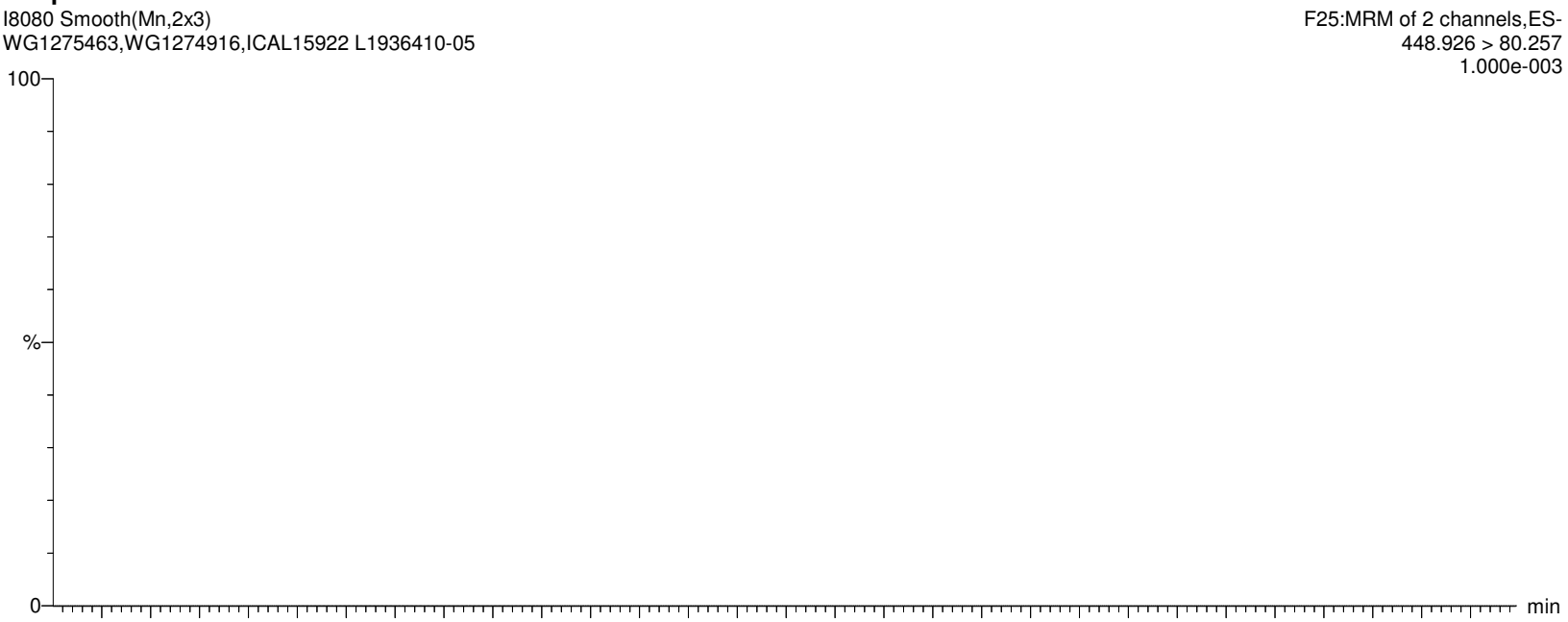


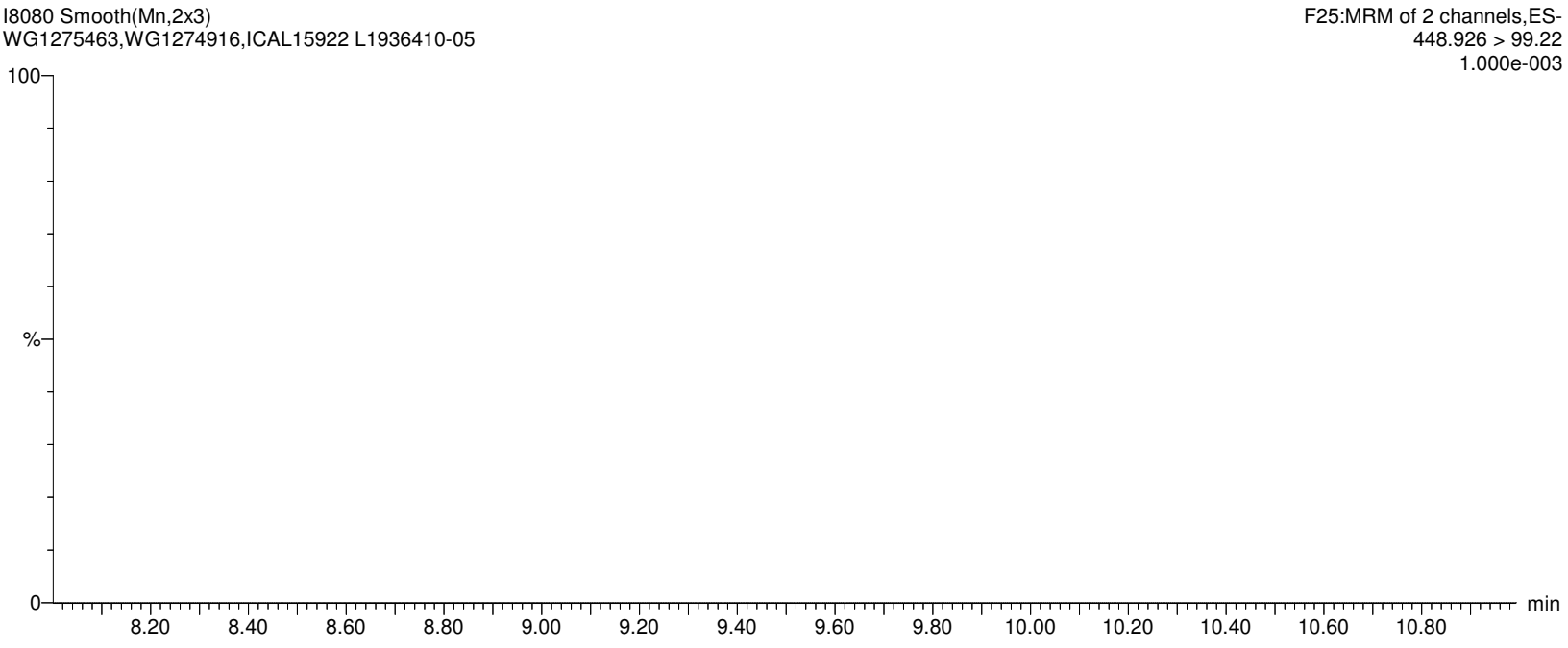
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Printed: Friday, August 23, 2019 09:51:35 Eastern Daylight Time

Name: I8080
ID: L1936410-05
Date: 22-Aug-2019
Time: 15:47:51
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:D,2
Instrument: XEVO-TQSmicro#QEB0050
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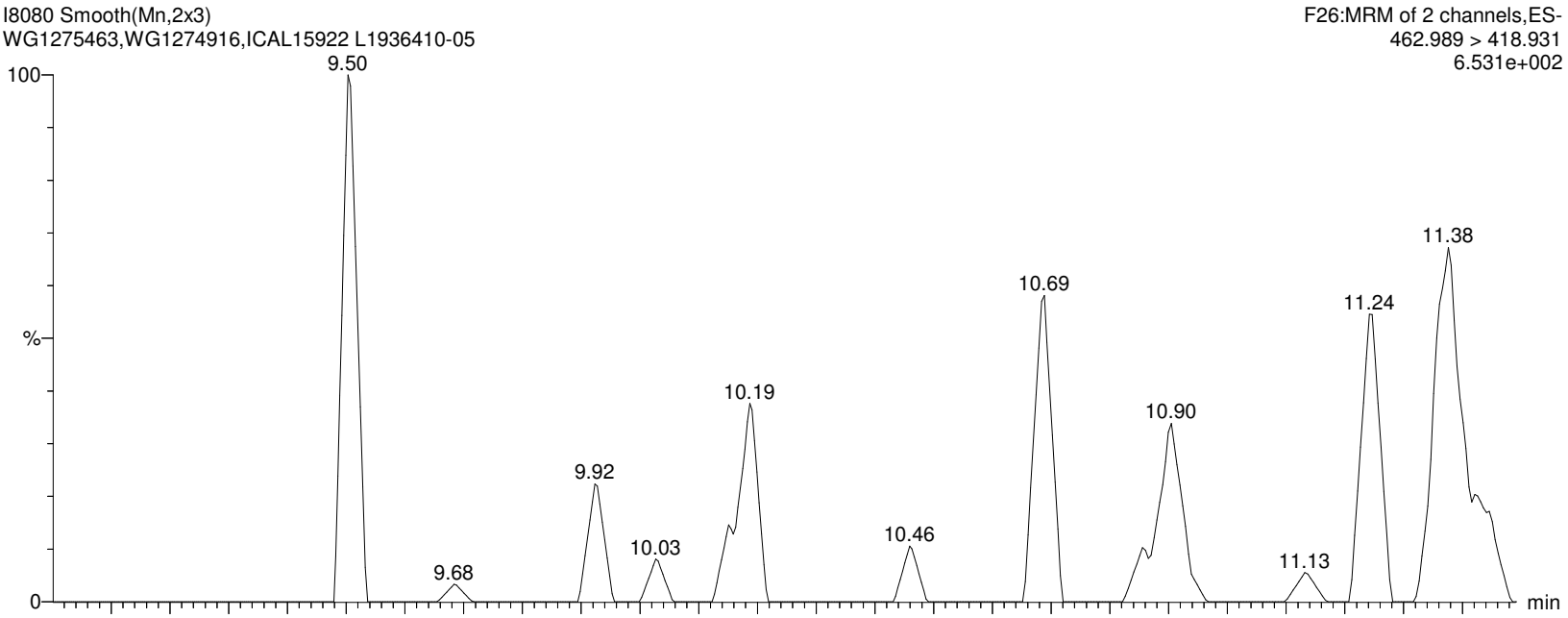


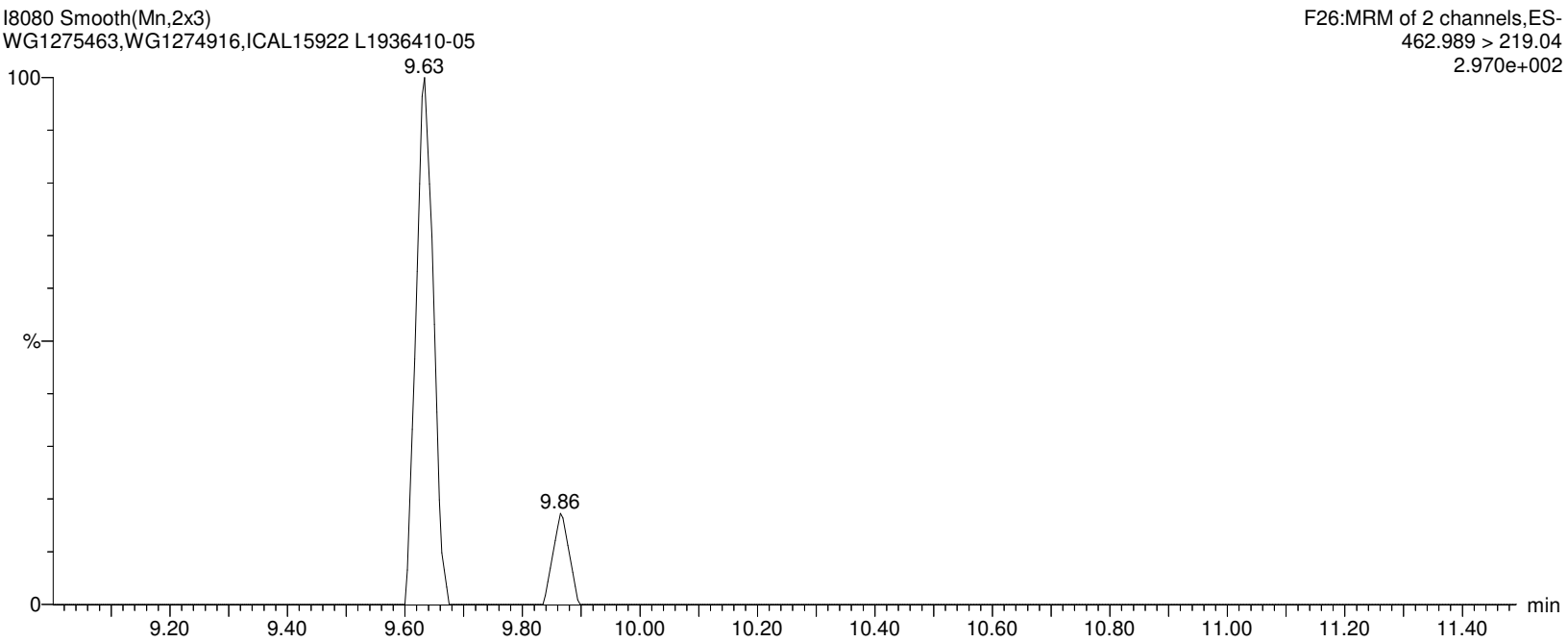
all concentration units in (ng/mL)

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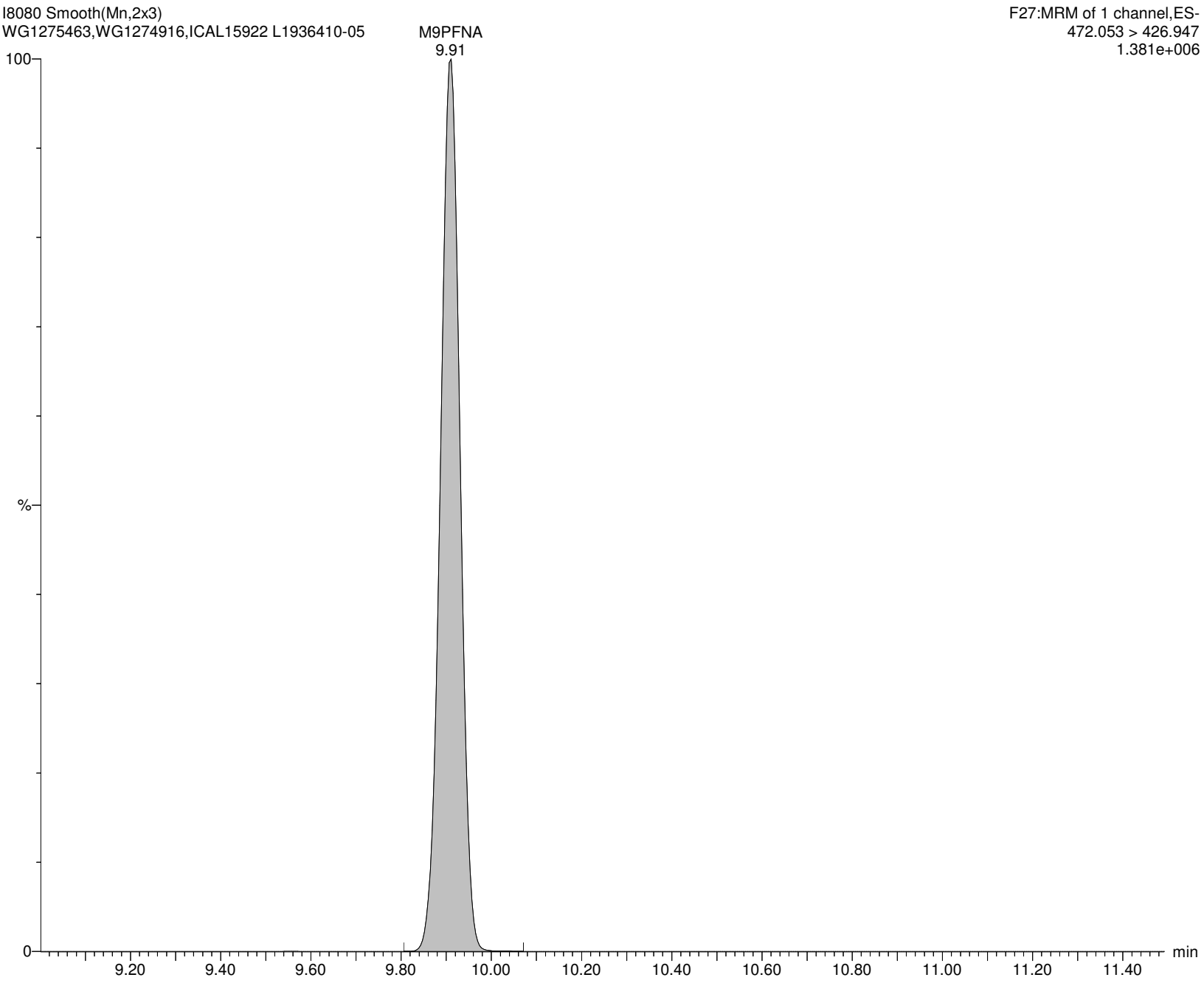


all concentration units in (ng/mL)

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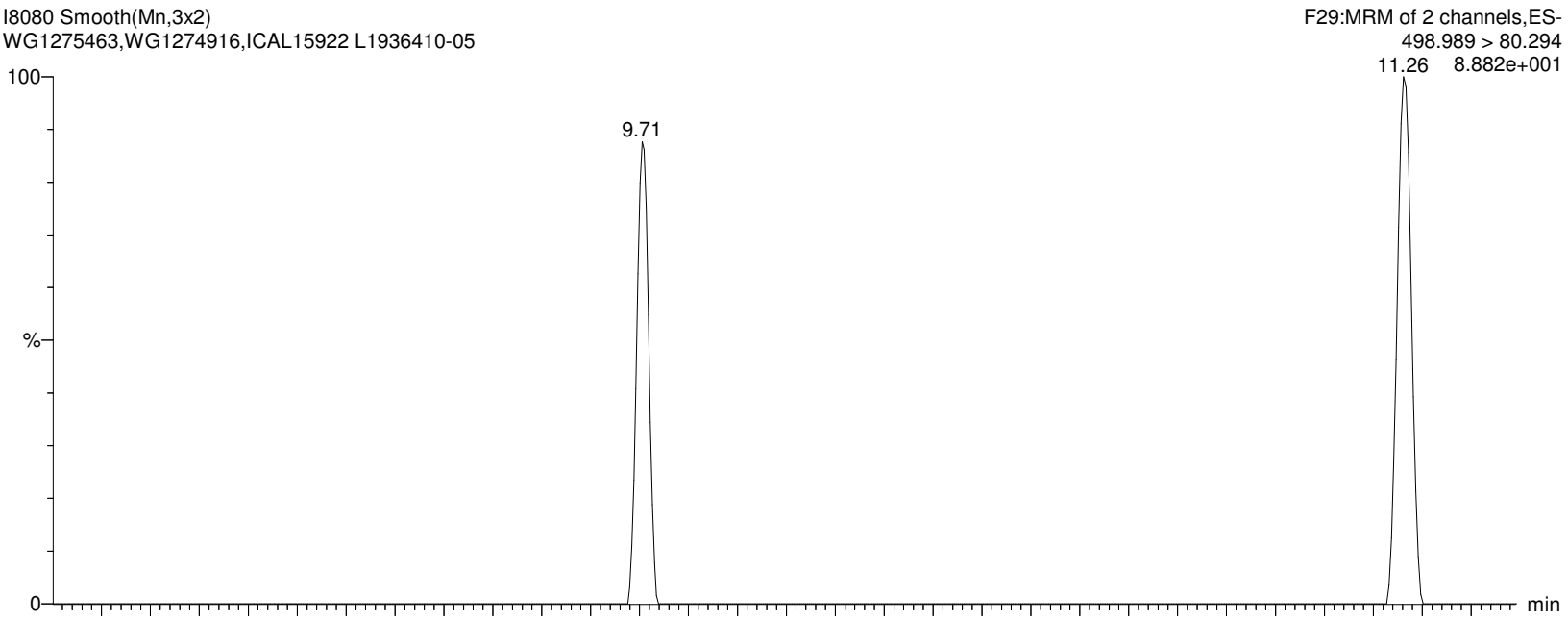


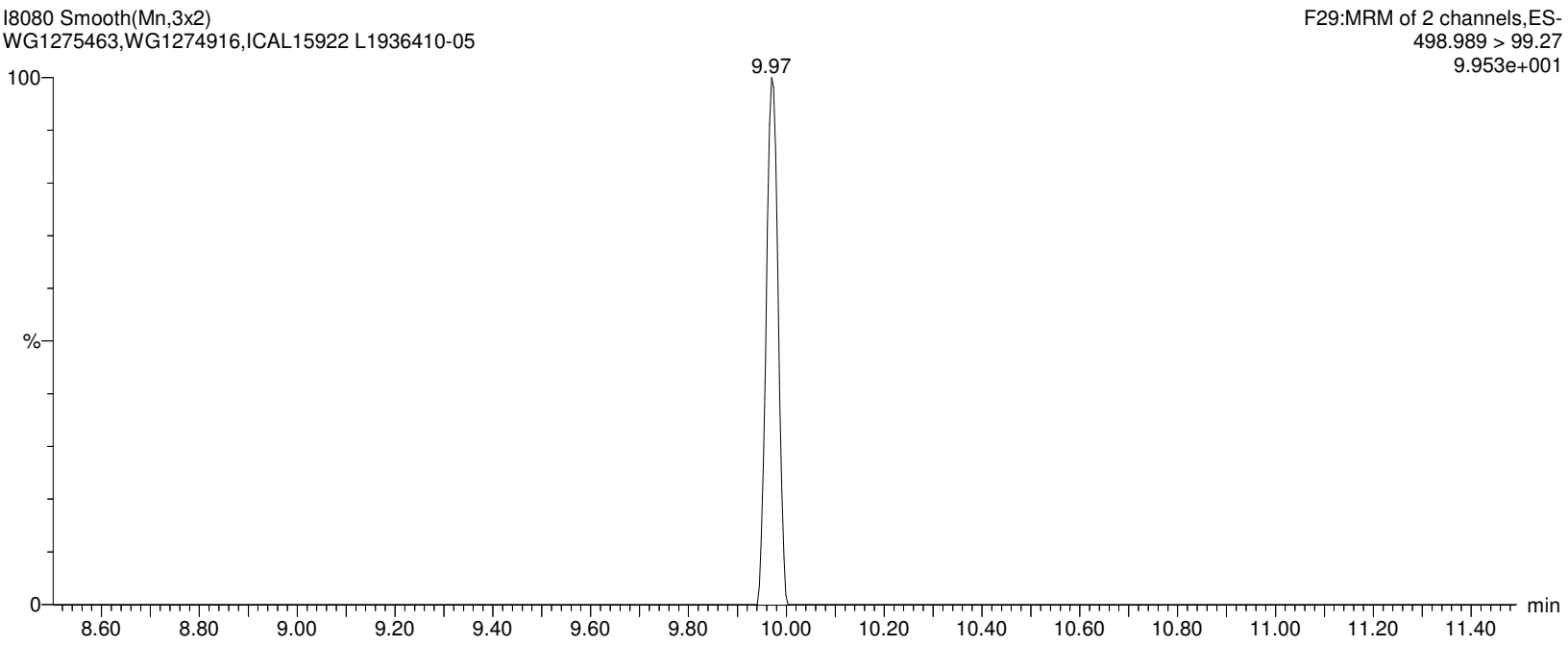
all concentration units in (ng/mL)

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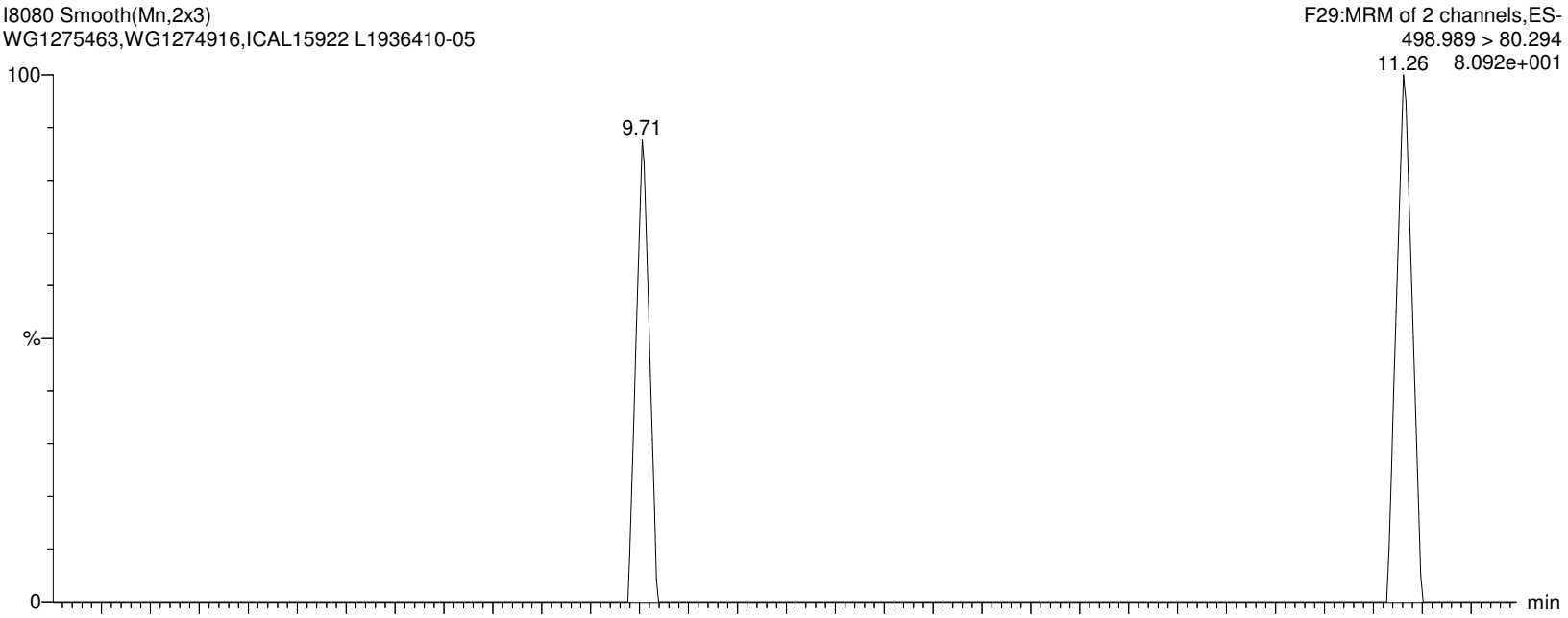


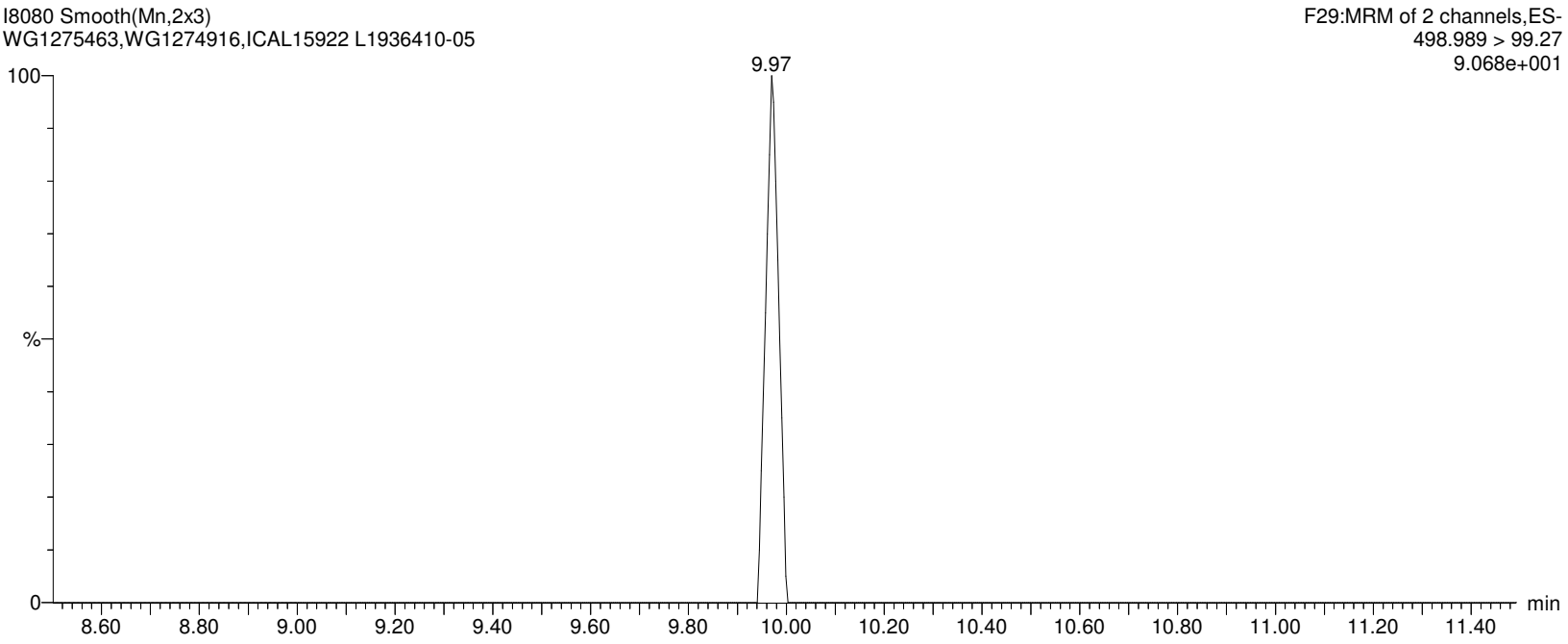
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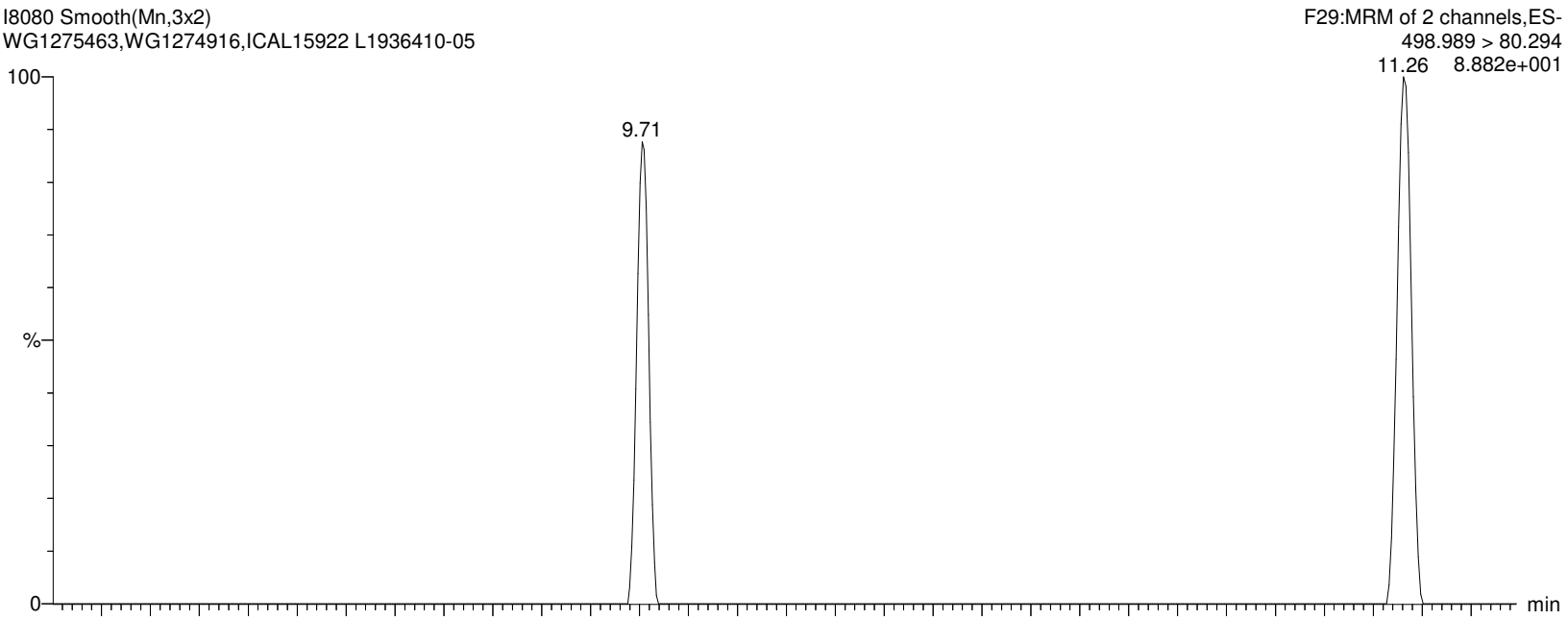


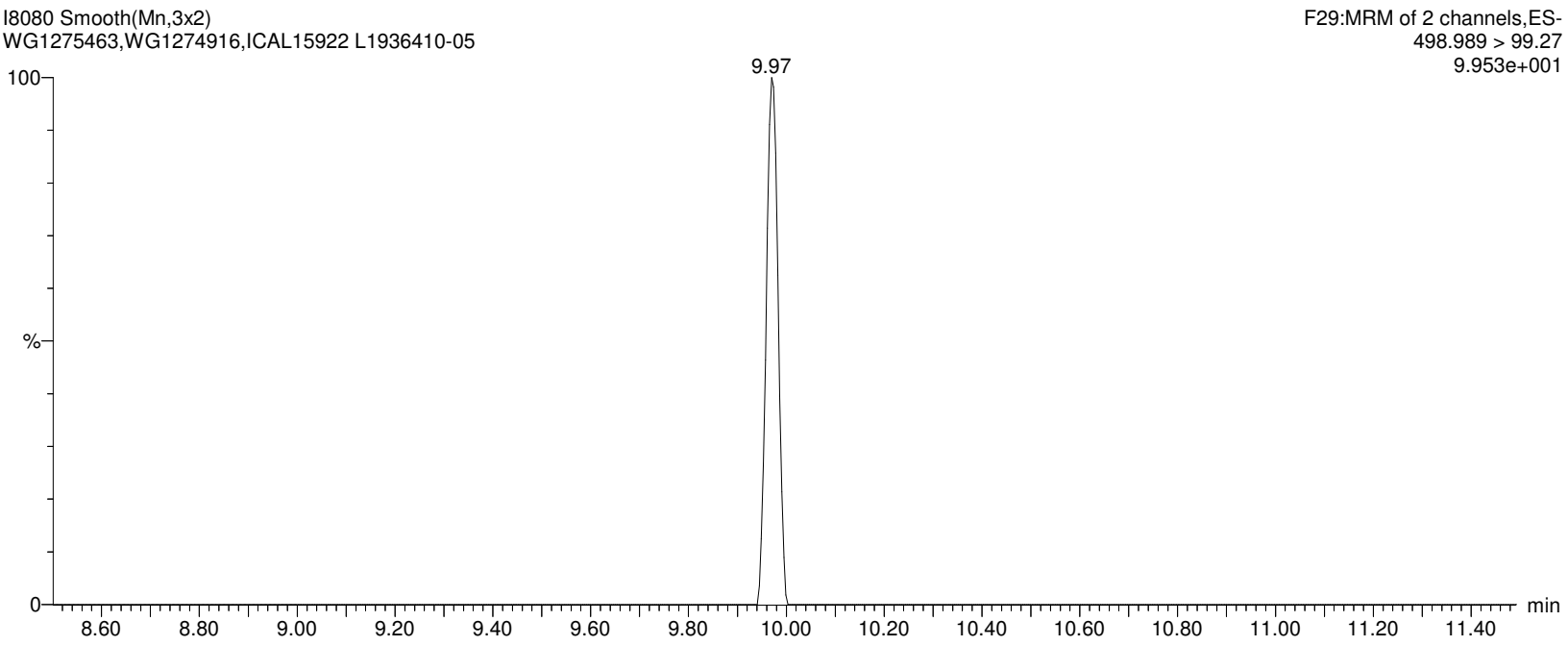
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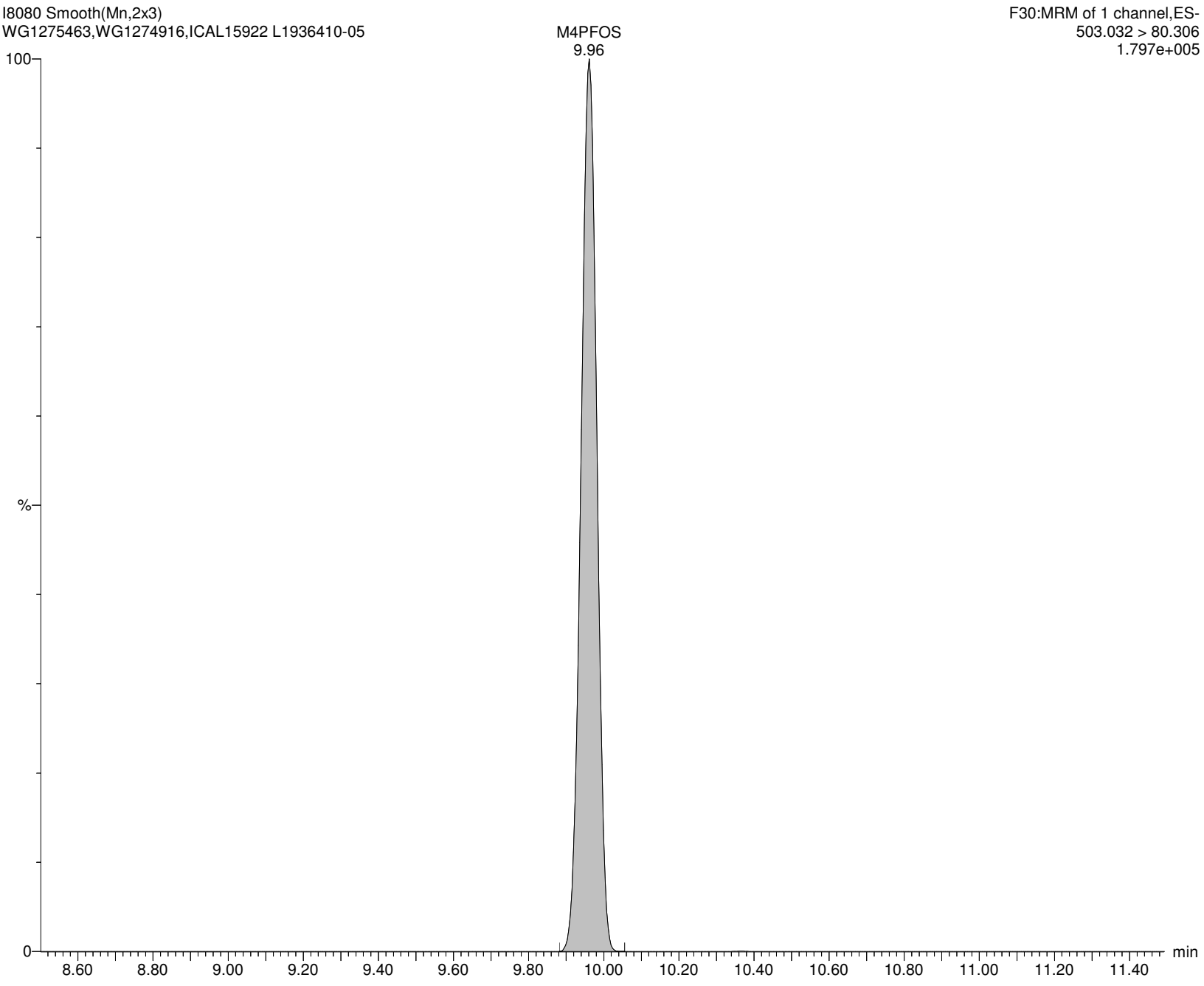


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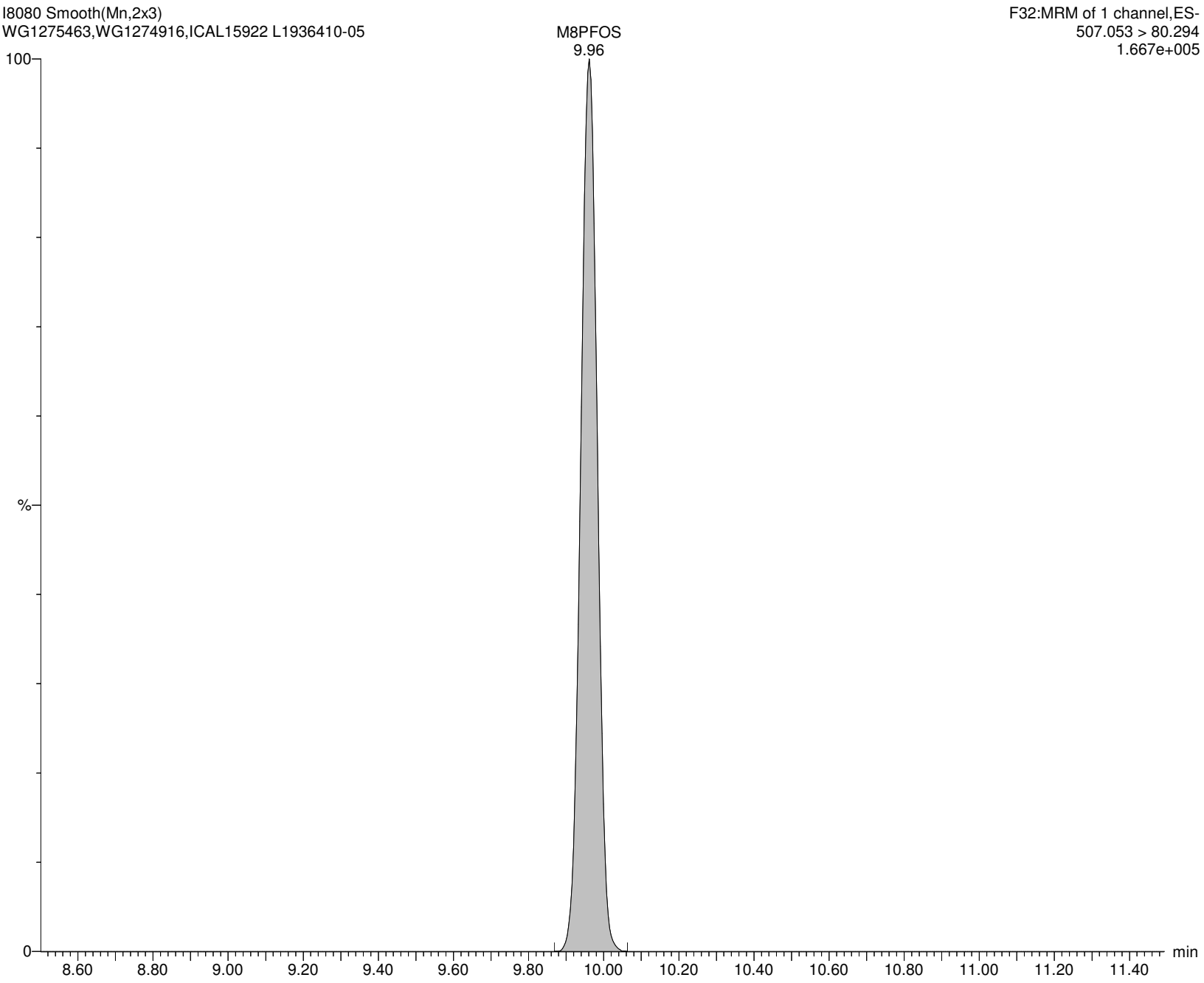


all concentration units in (ng/mL)

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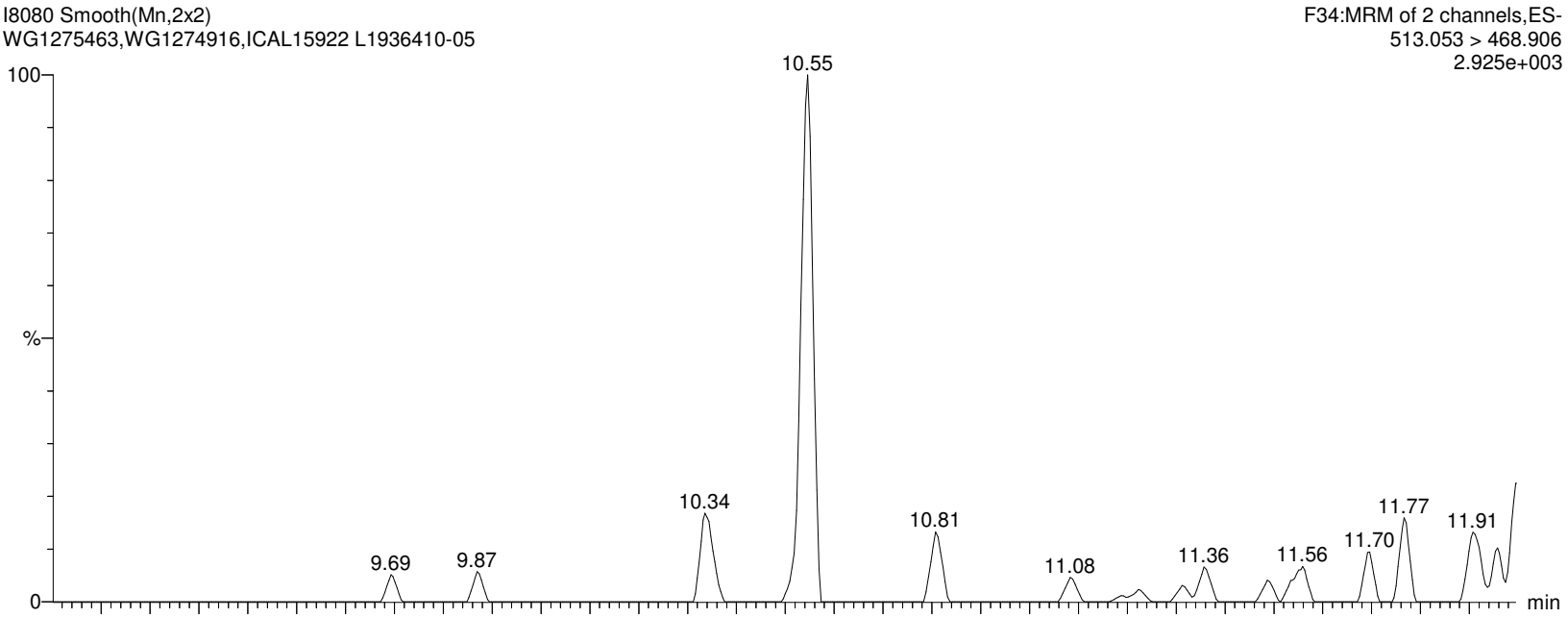


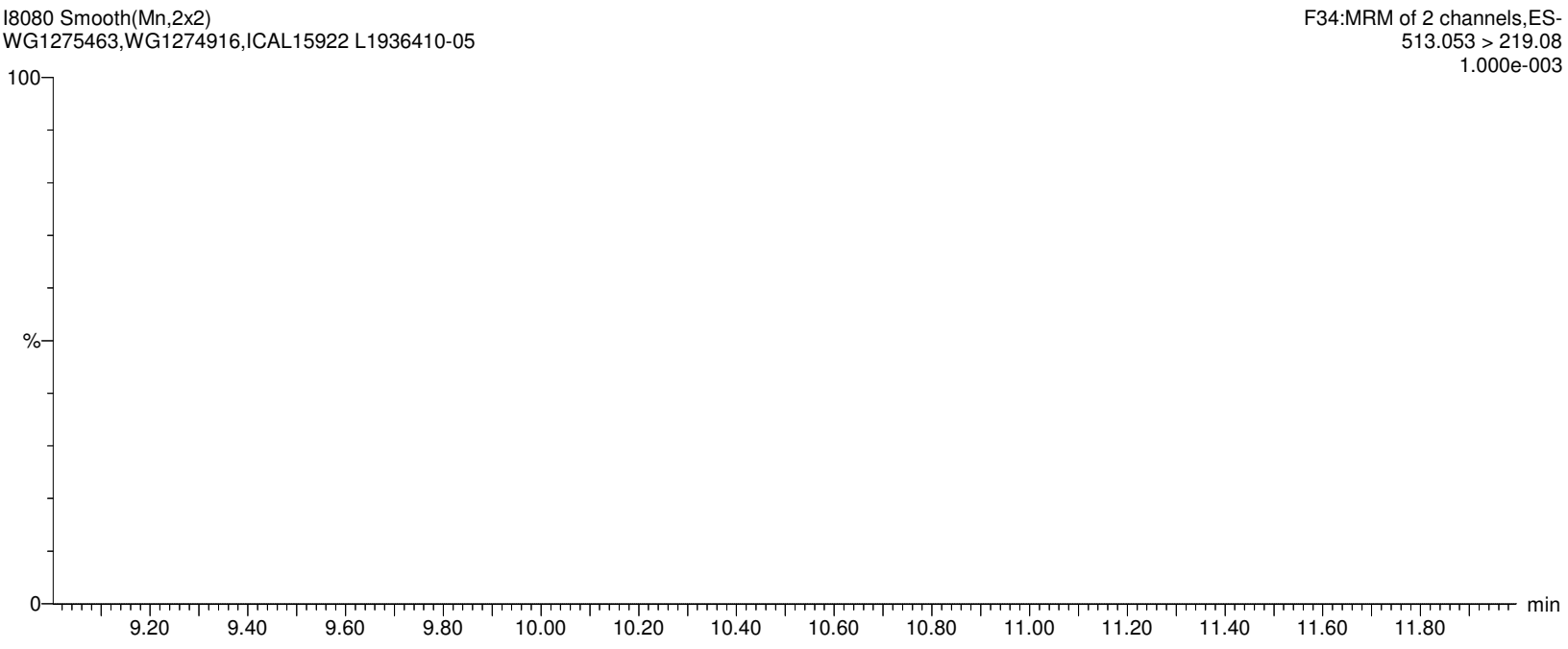
all concentration units in (ng/mL)

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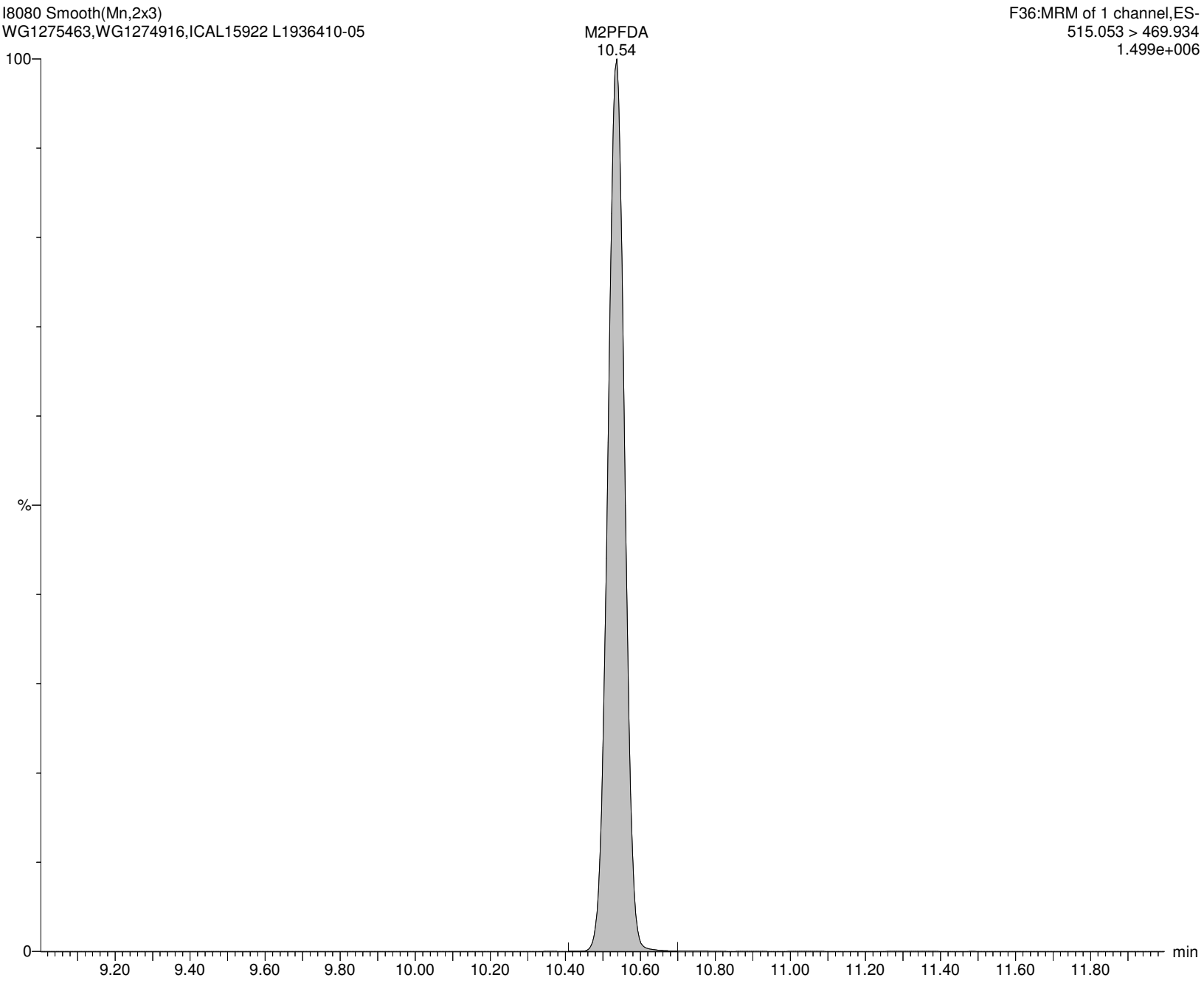


all concentration units in (ng/mL)

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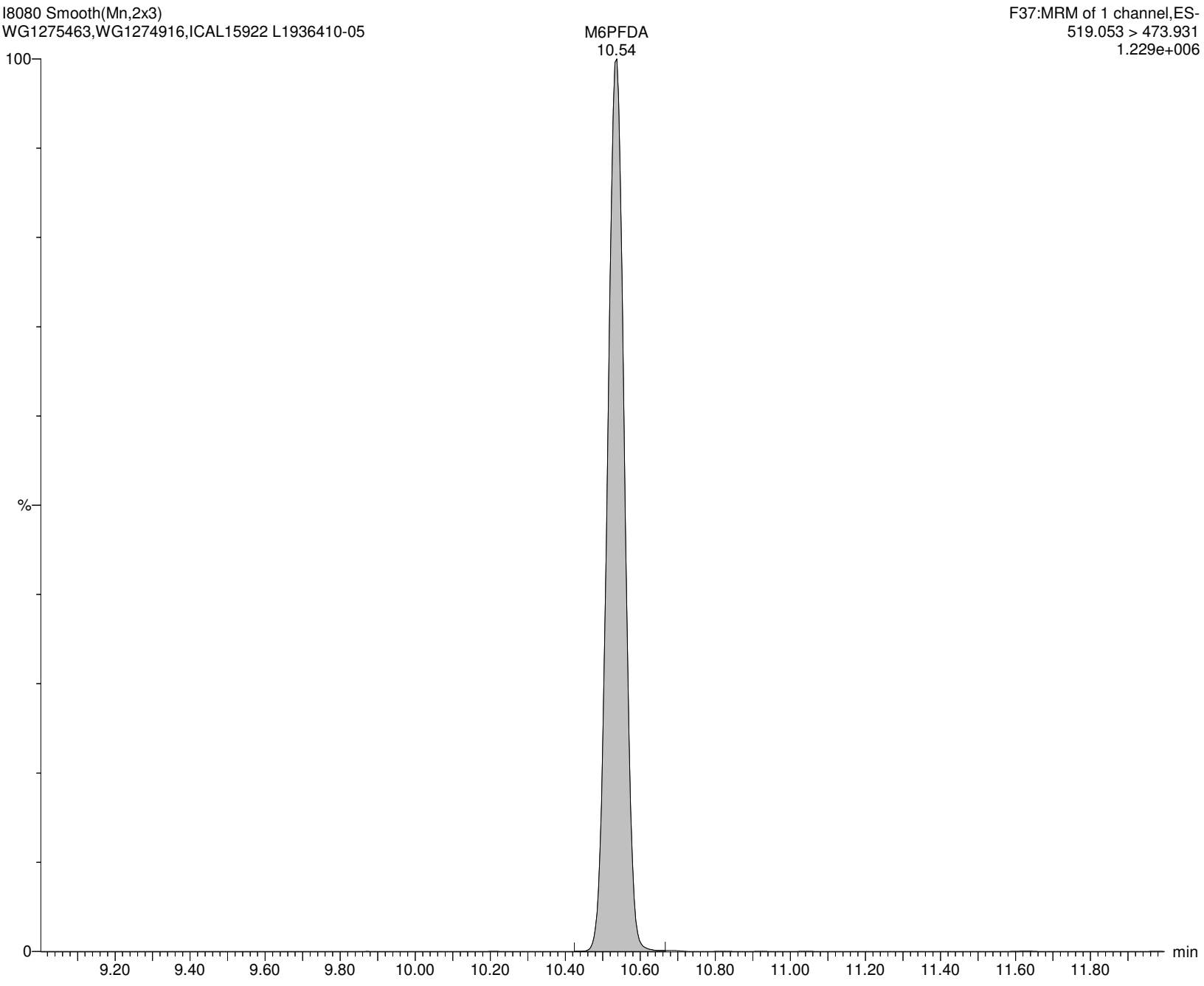


all concentration units in (ng/mL)

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M6PFDA



all concentration units in (ng/mL)

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-

8:2FTS

I8080 Smooth(Mn,2x2)
WG1275463,WG1274916,ICAL15922 L1936410-05

F39:MRM of 2 channels,ES-
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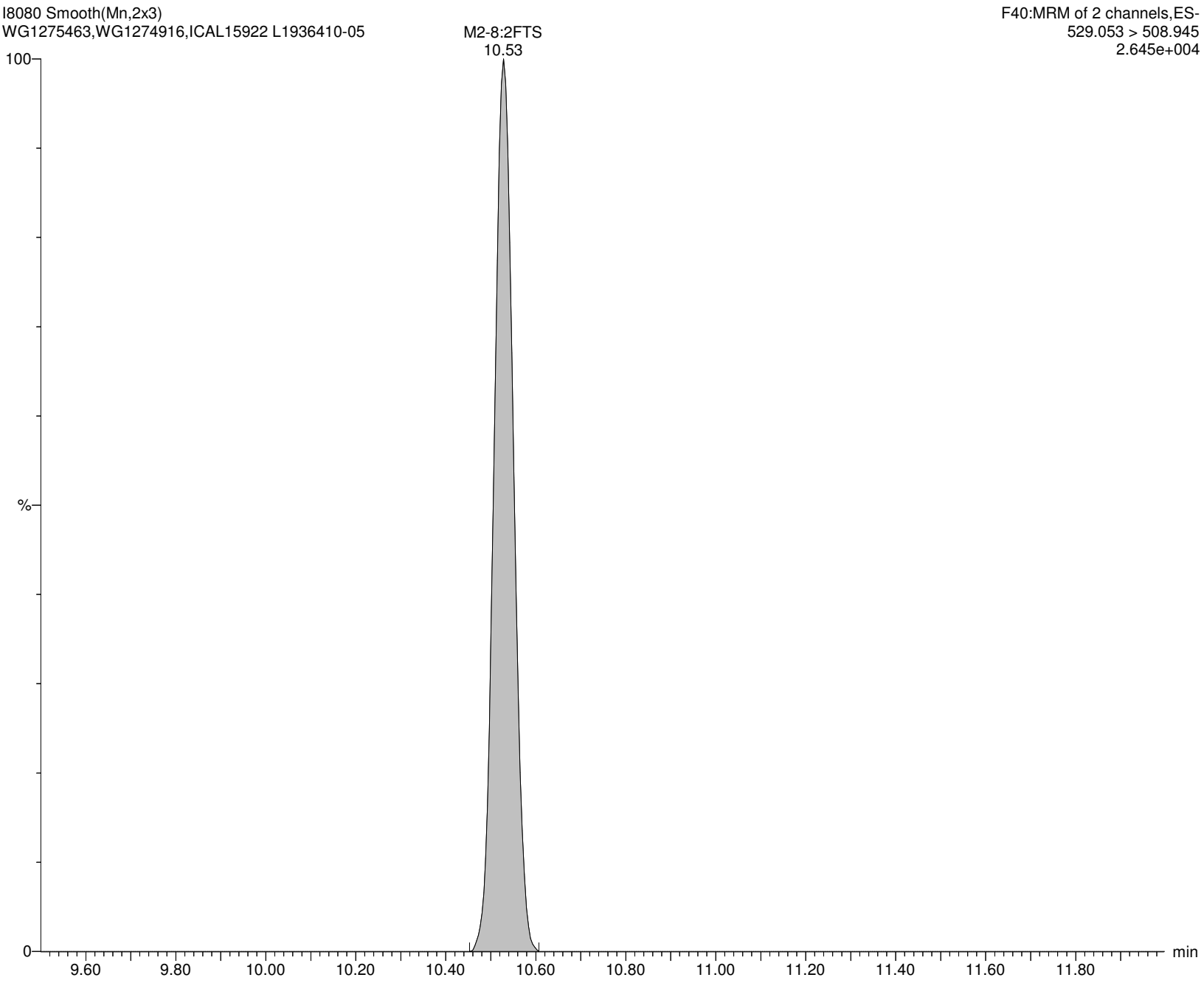


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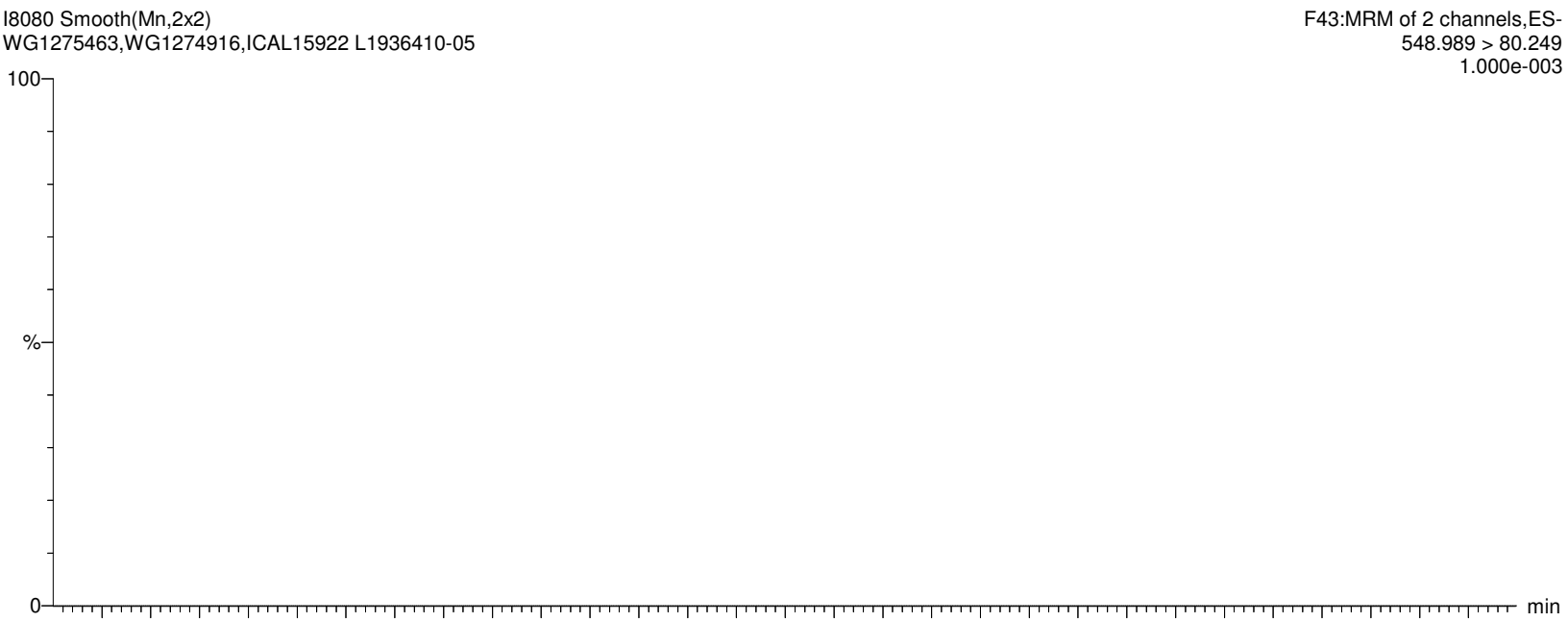


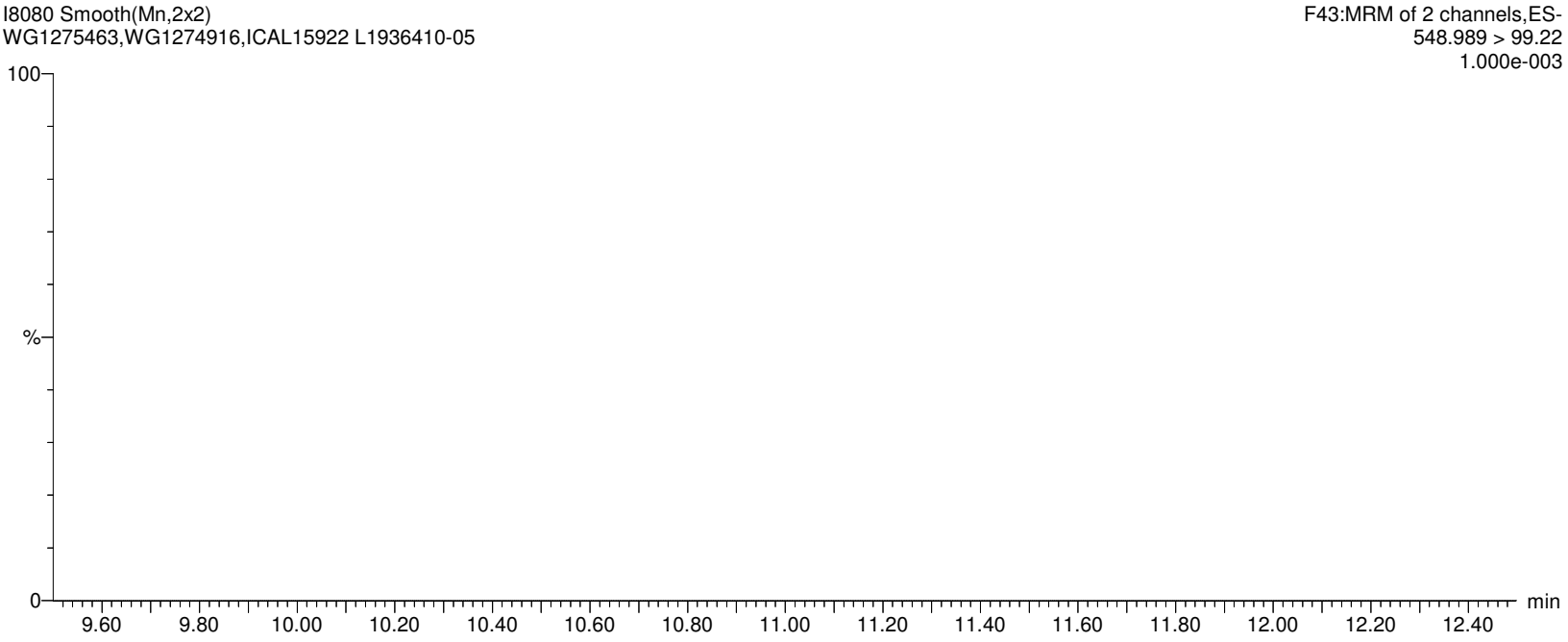
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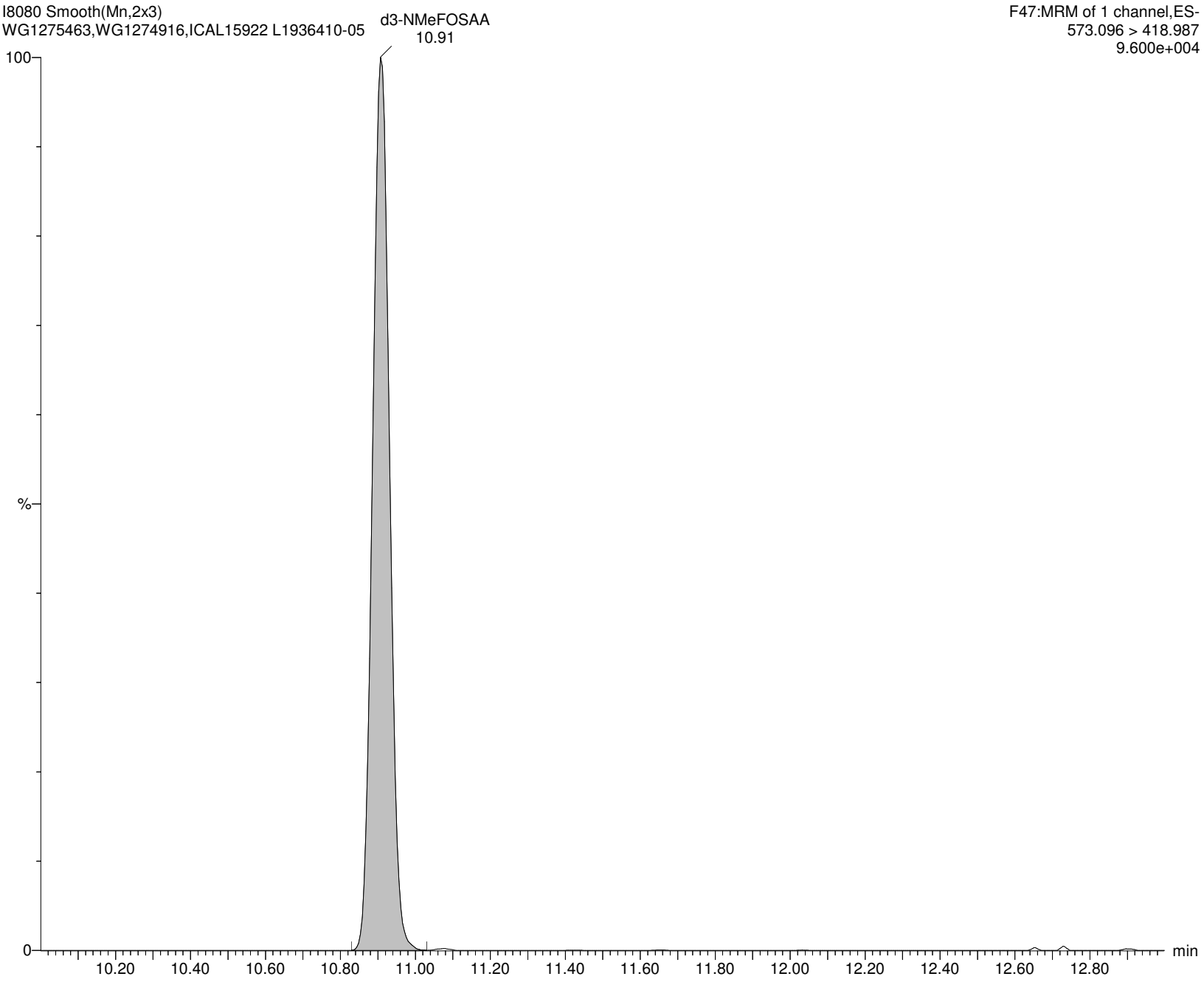


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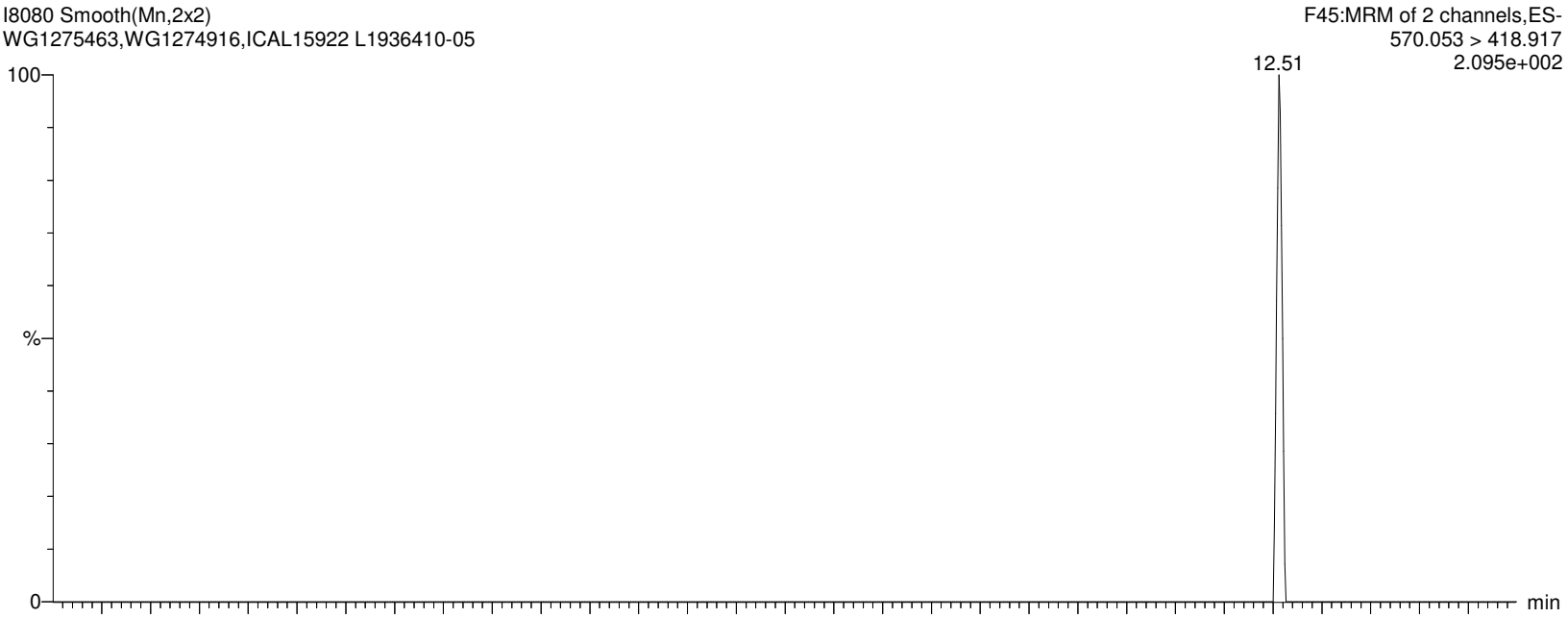


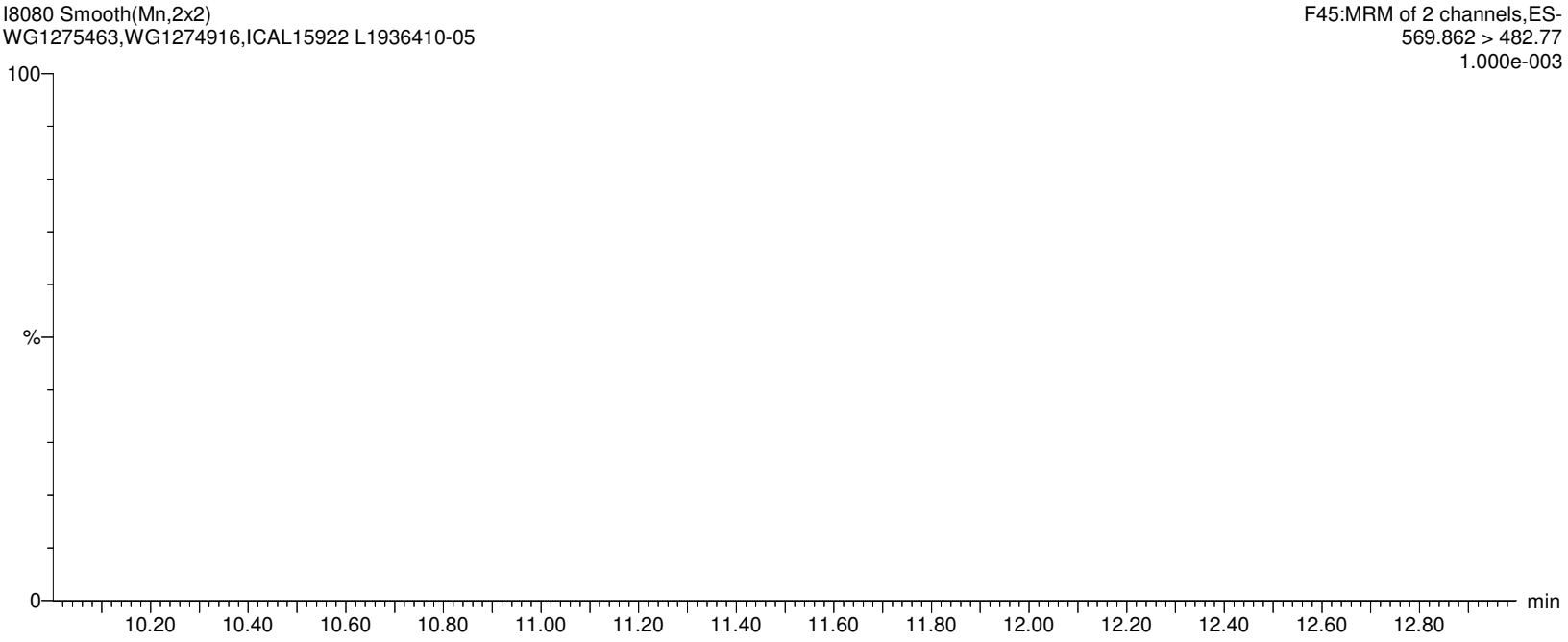
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NMeFOSAA



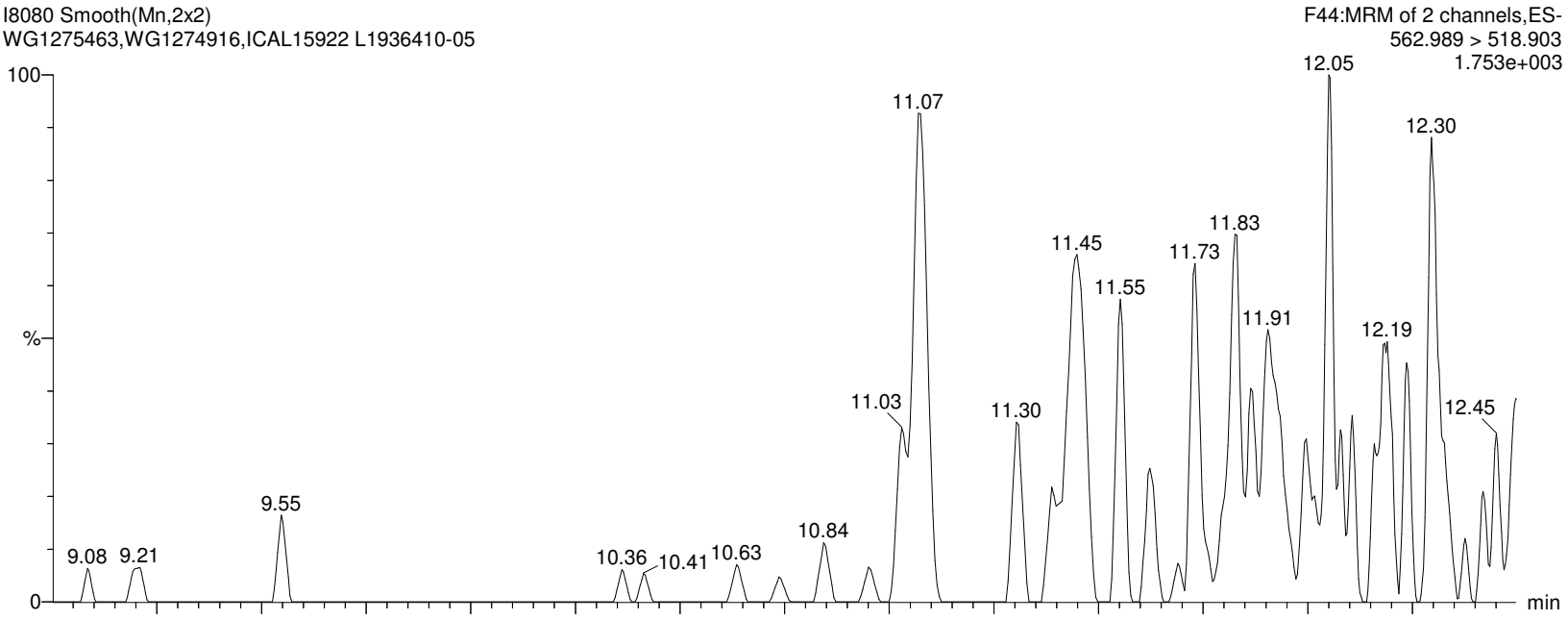


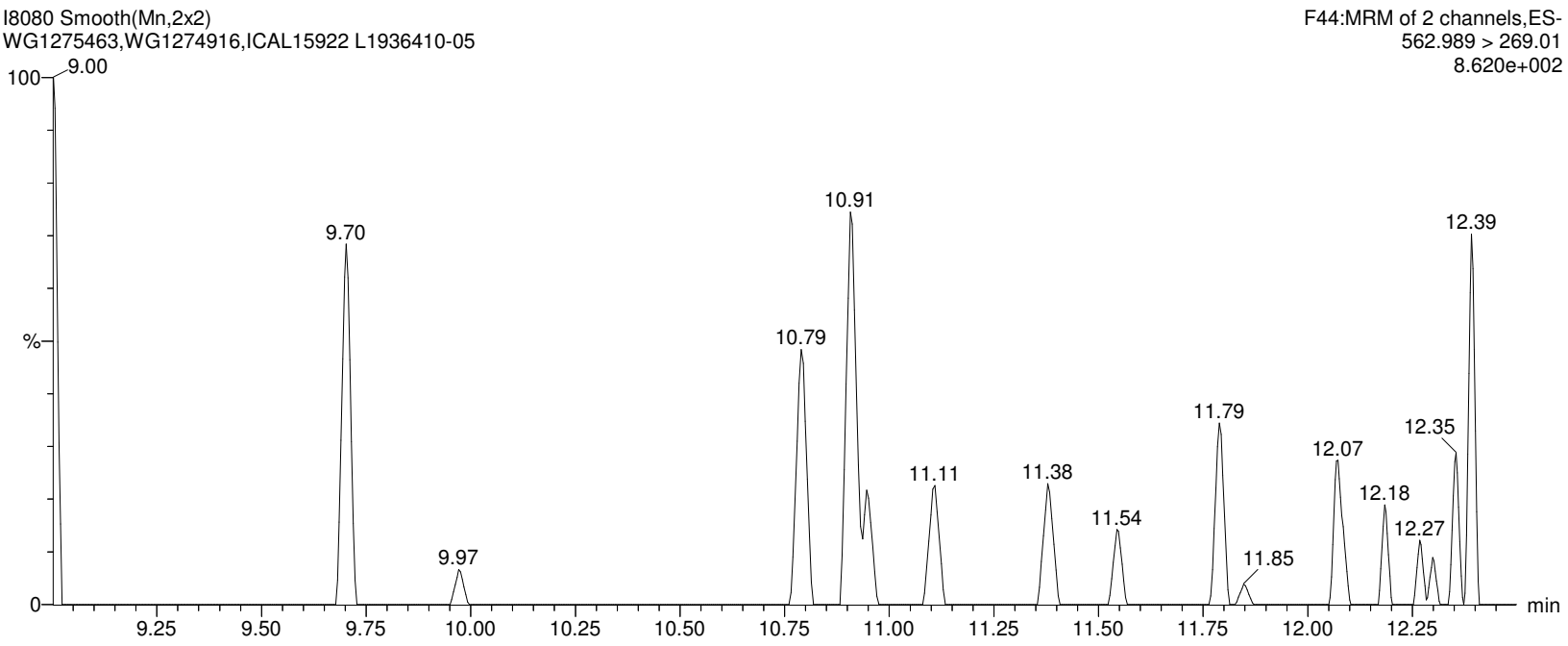
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\wg1275463b.qld
Last Altered: Friday, August 23, 2019 09:51:17 Eastern Daylight Time
Printed: Friday, August 23, 2019 09:51:35 Eastern Daylight Time

Name: I8080
ID: L1936410-05
Date: 22-Aug-2019
Time: 15:47:51
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:D,2
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

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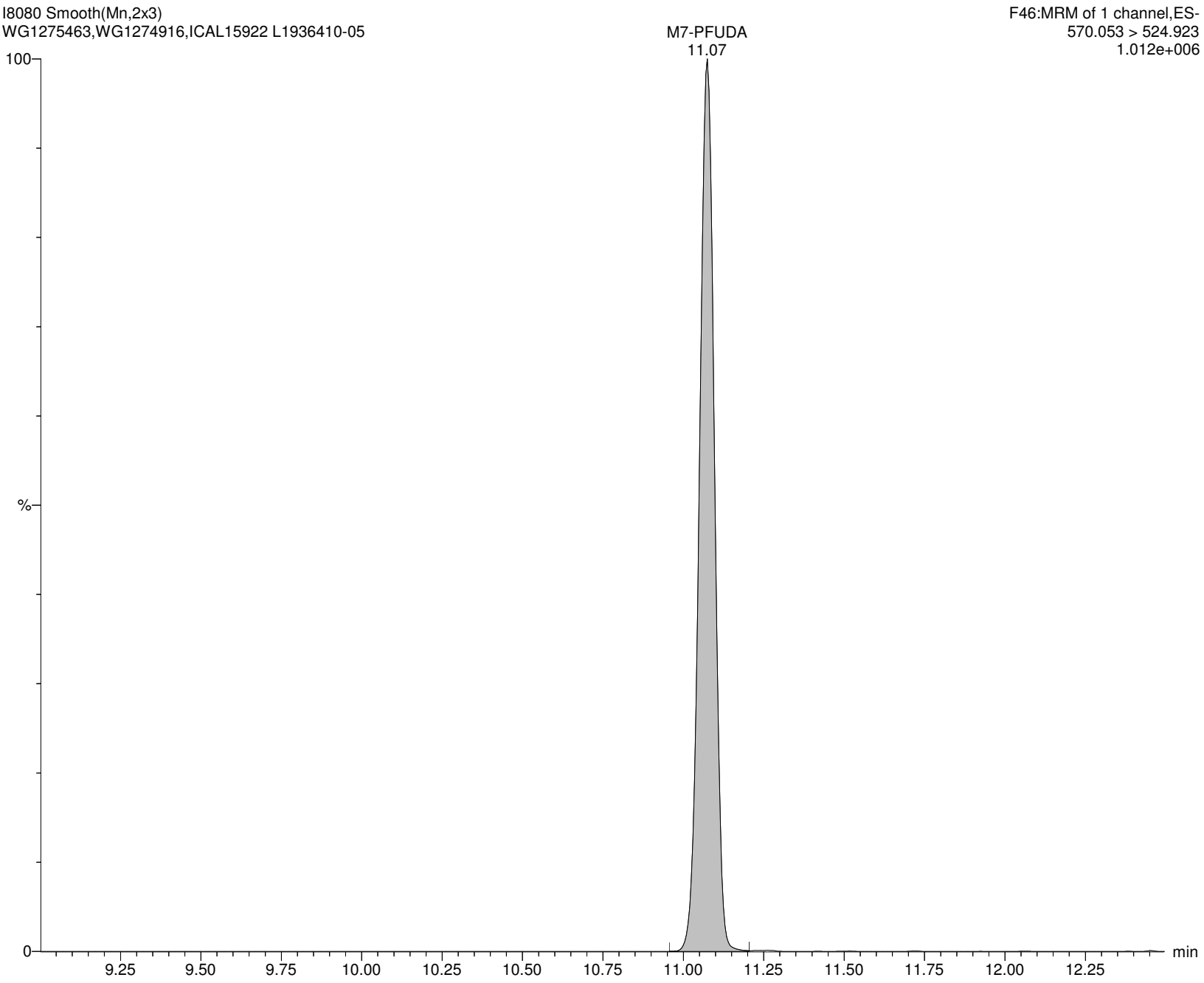


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M7-PFUDA

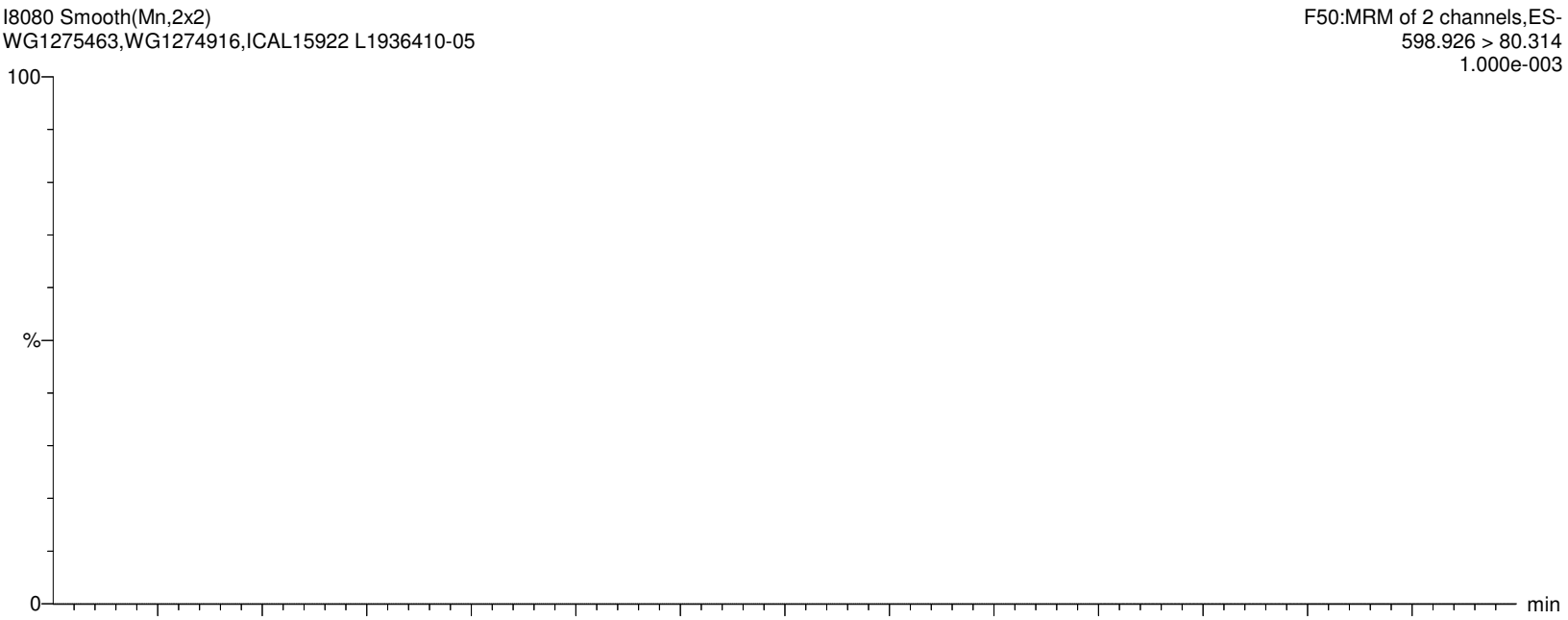


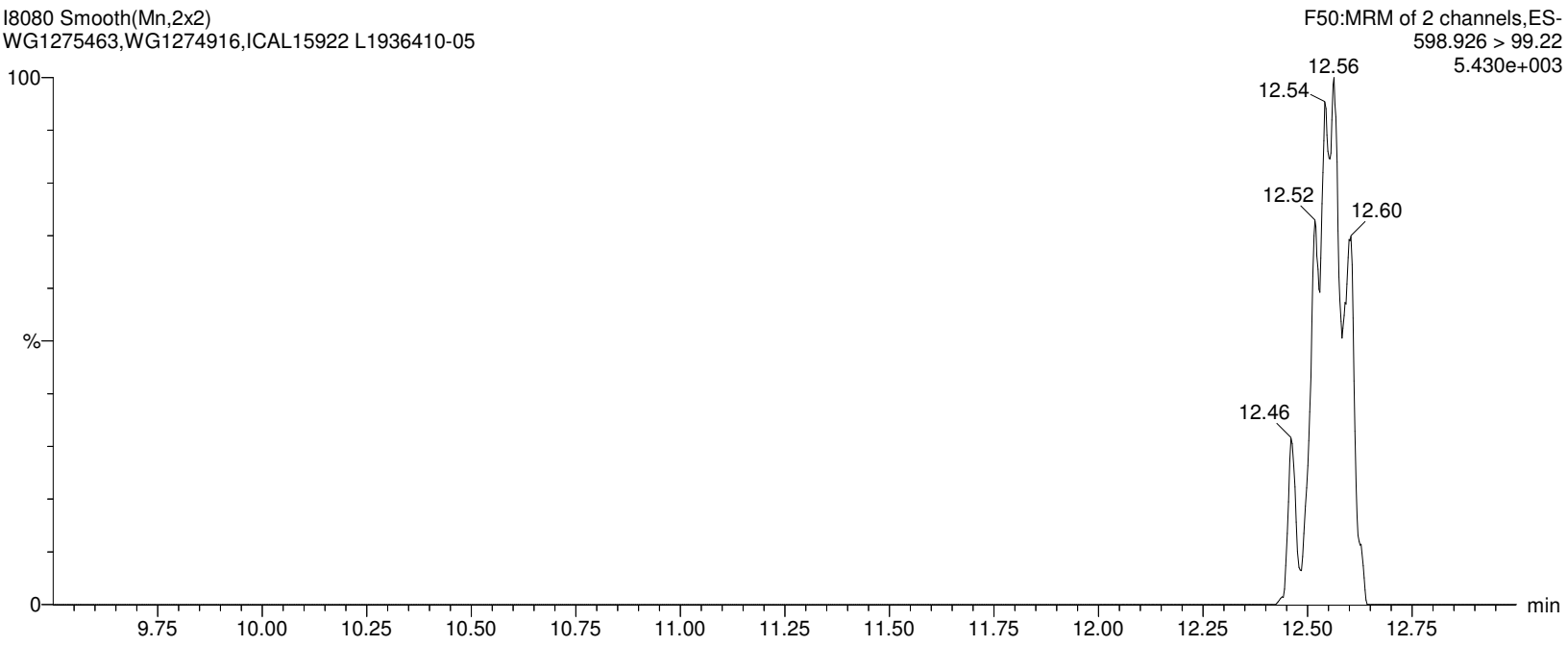
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PFDS



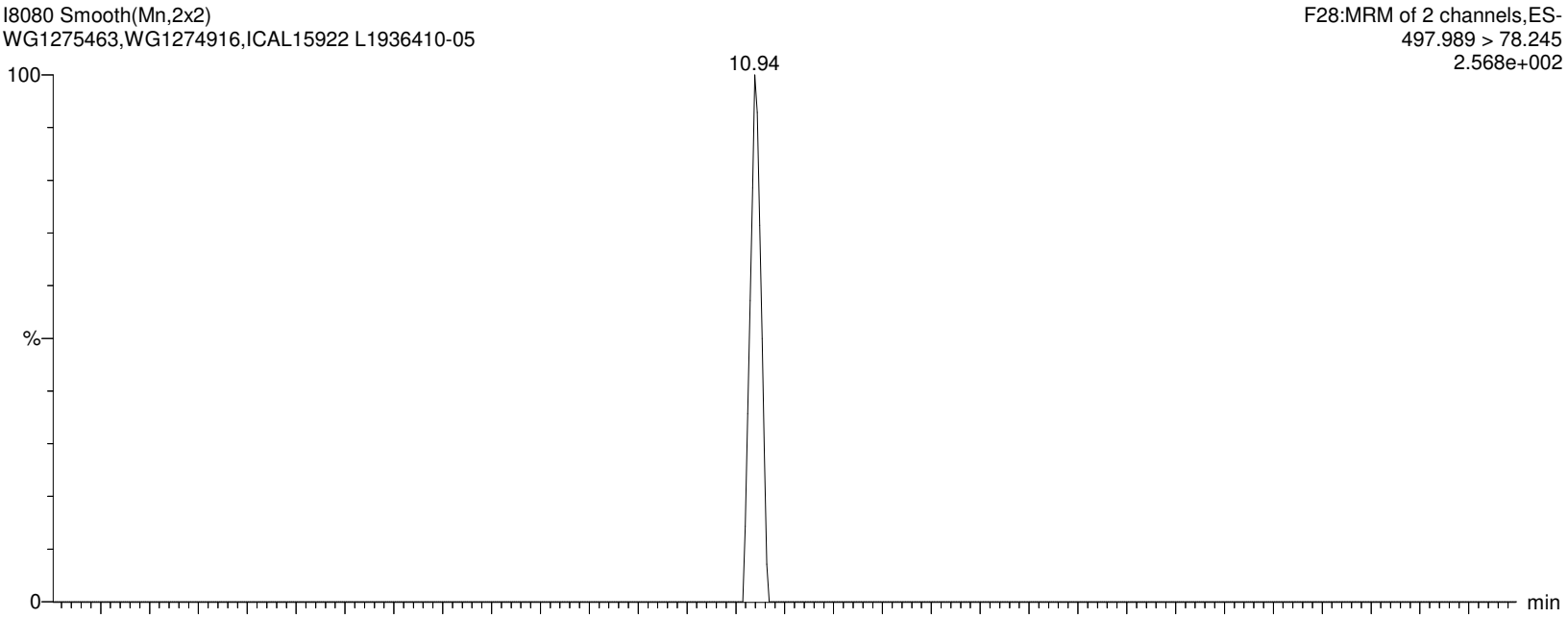


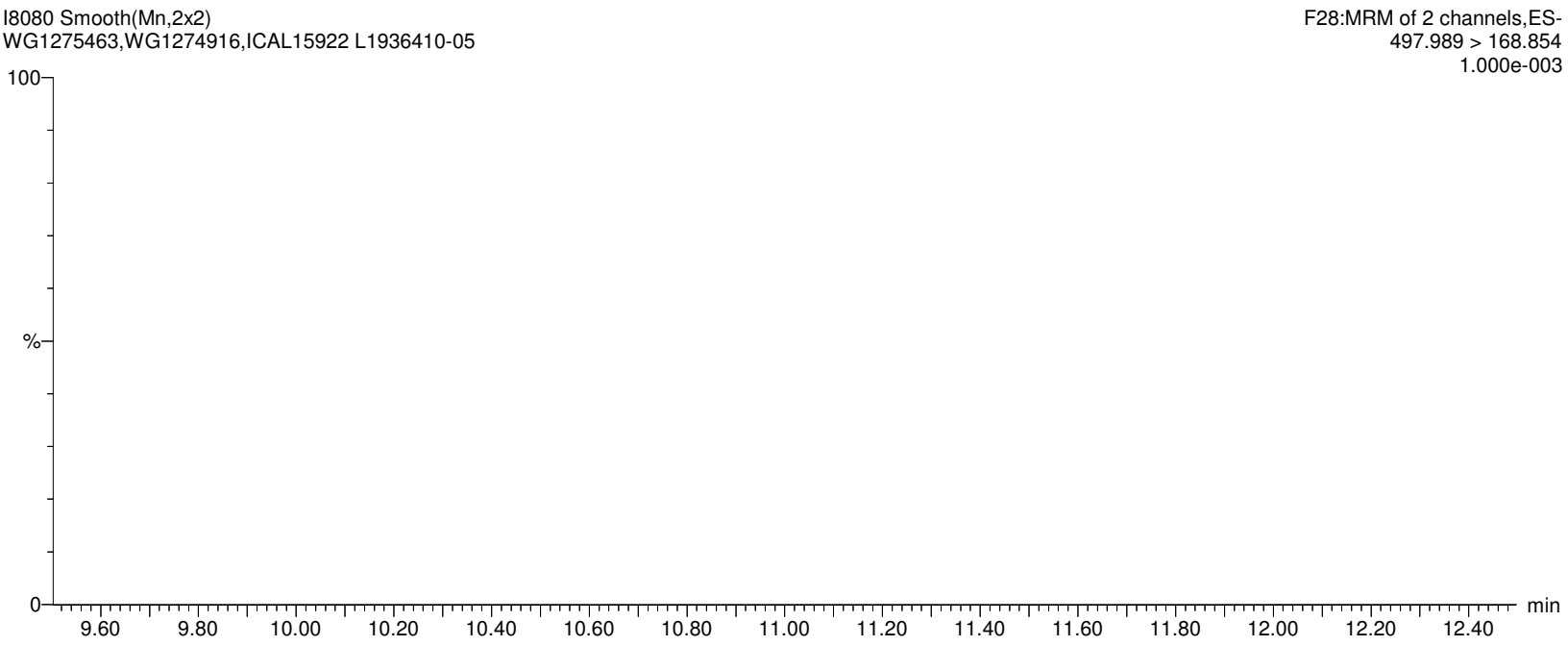
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FOSA



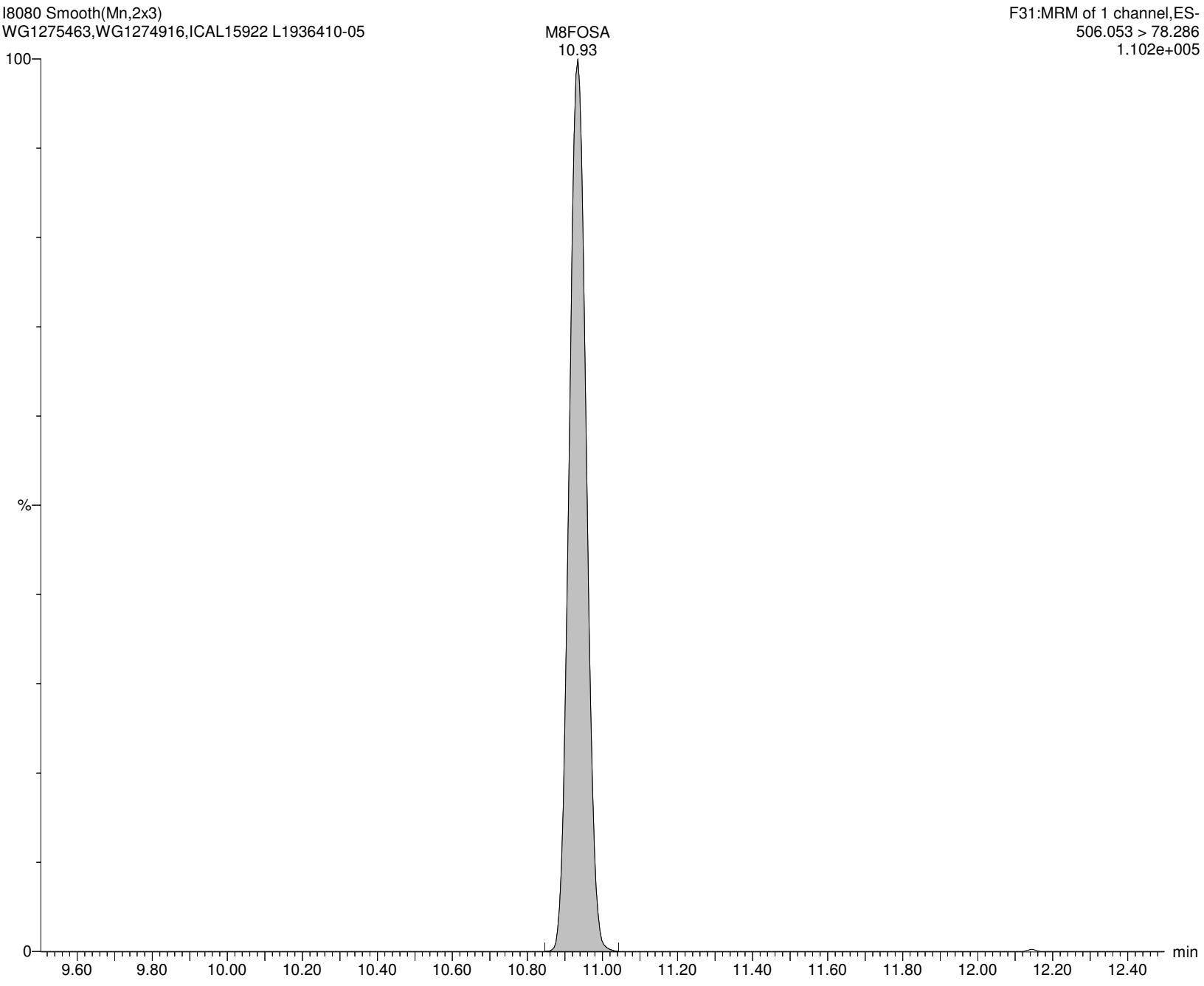


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M8FOSA

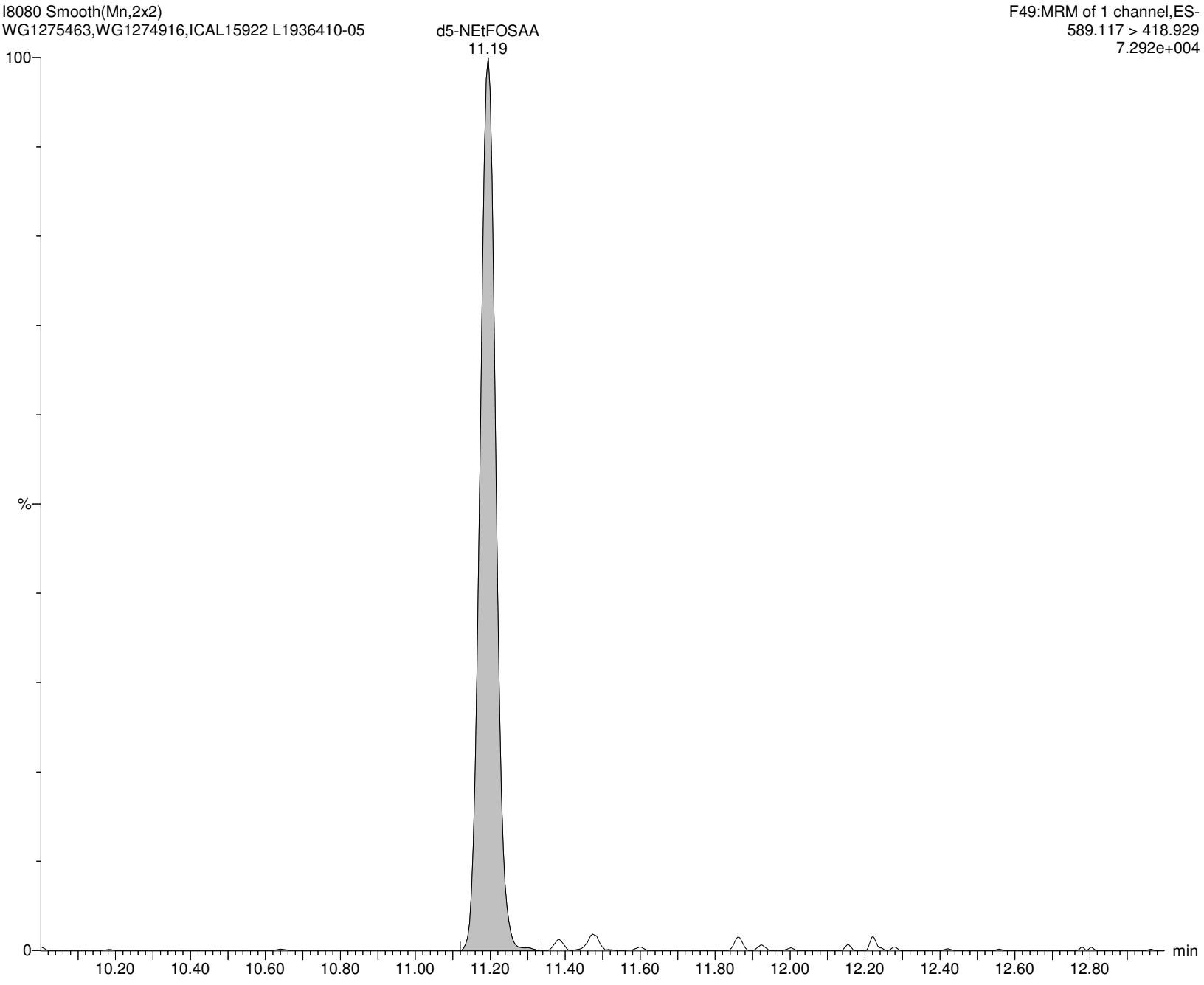


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d5-NEtFOSAA

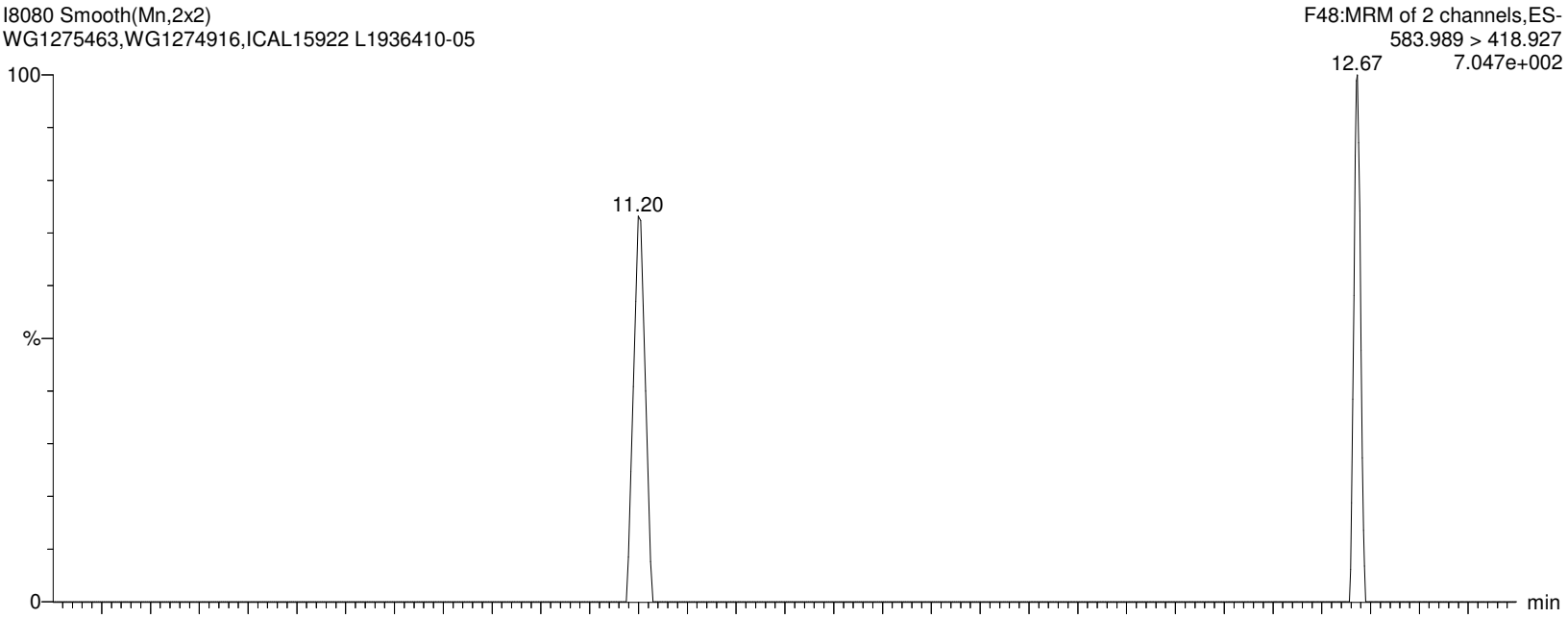


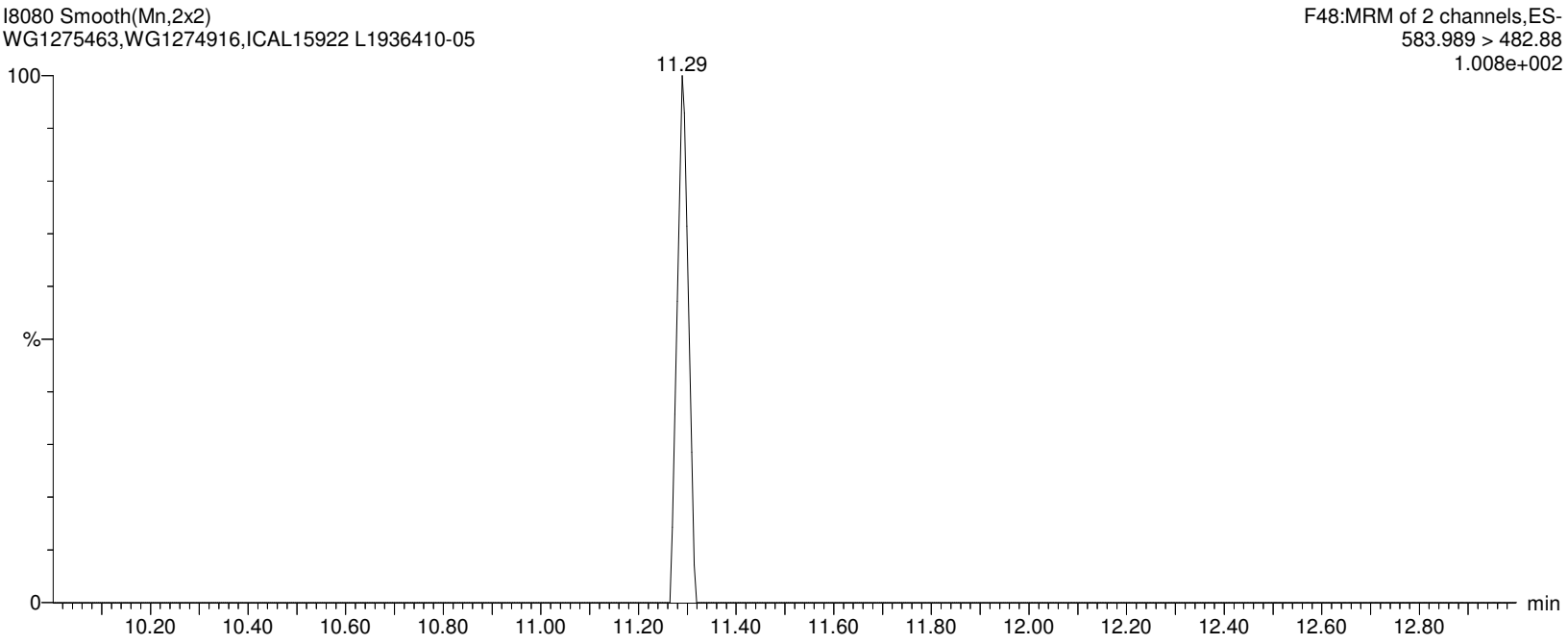
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NEtFOSAA



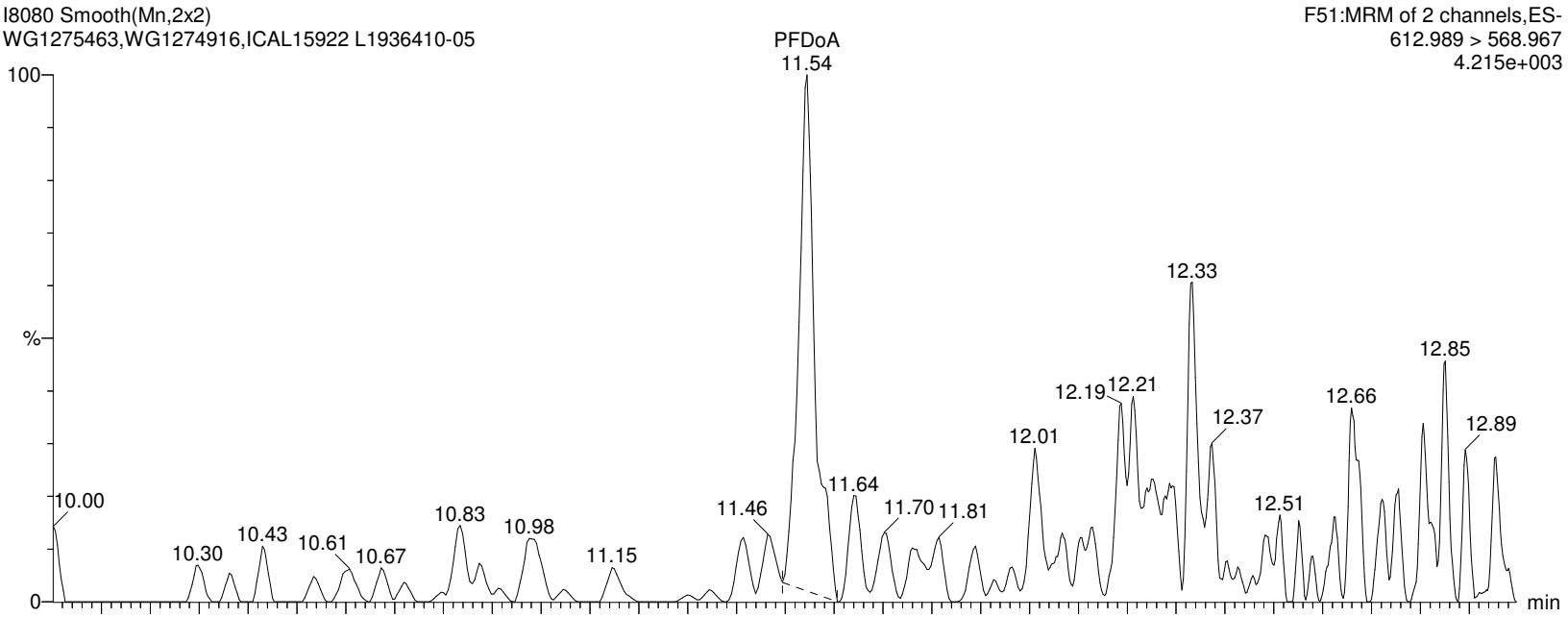


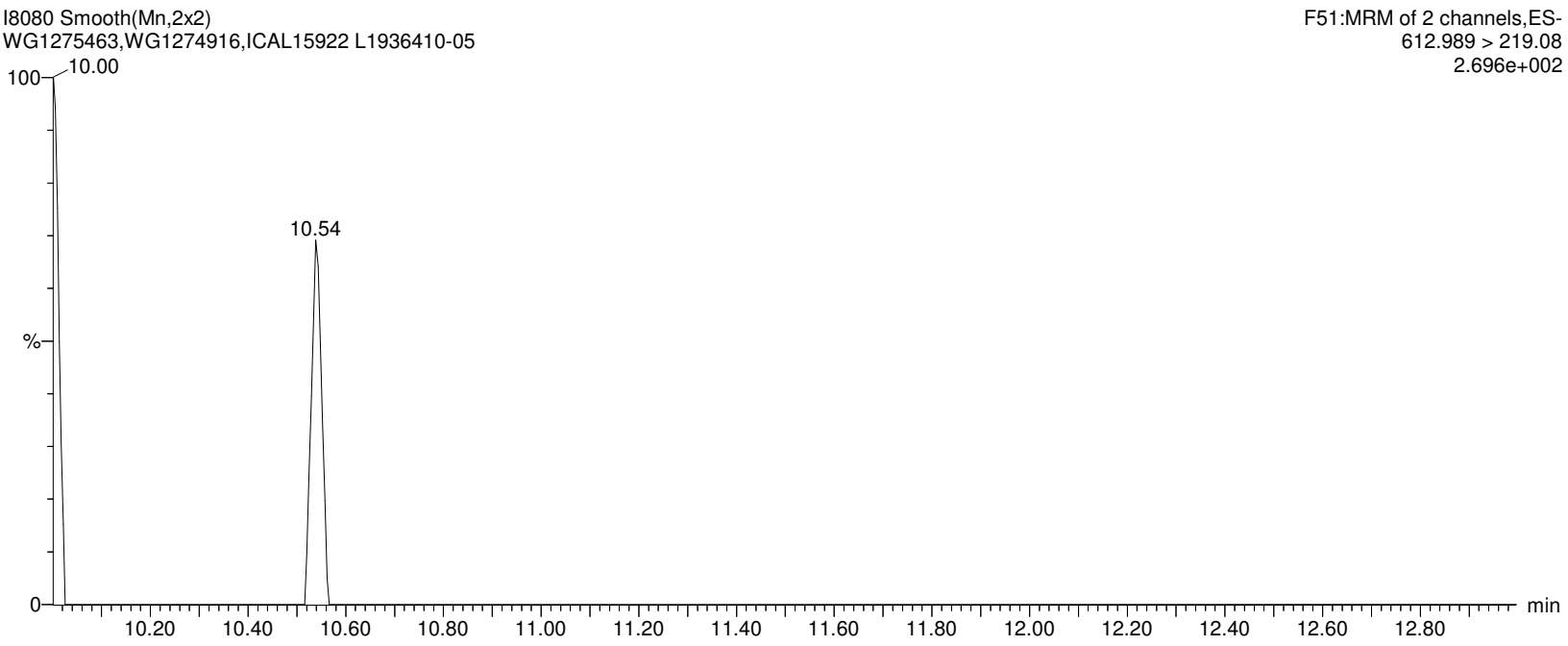
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PFDoA



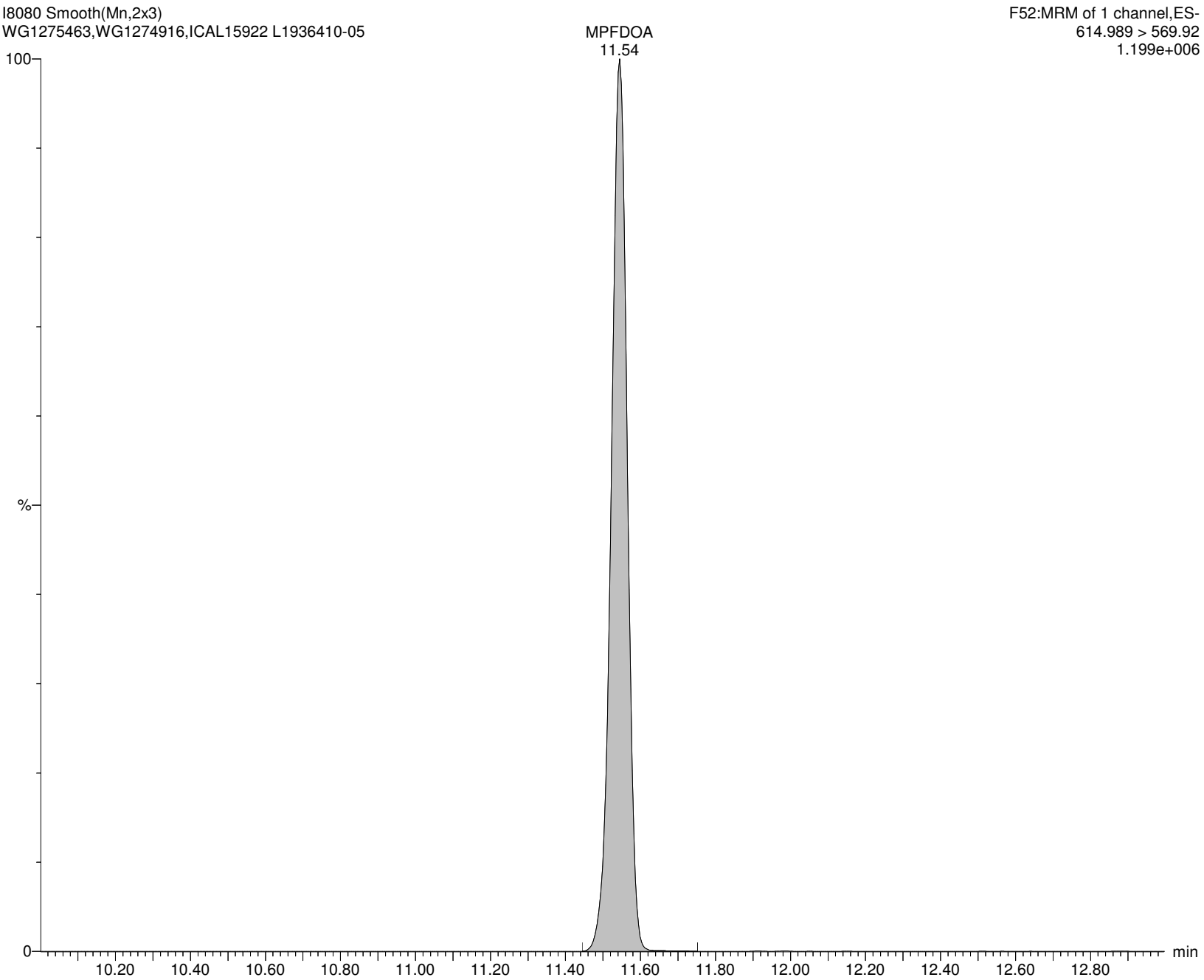


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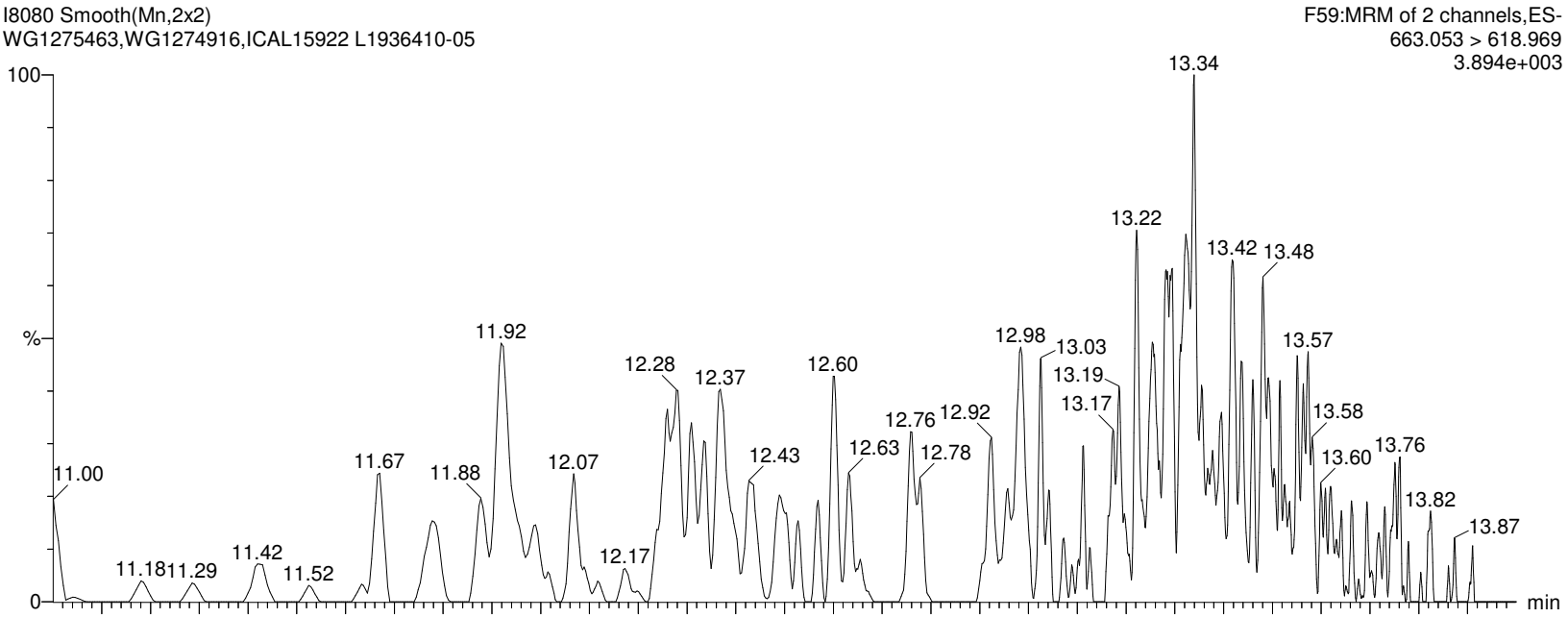


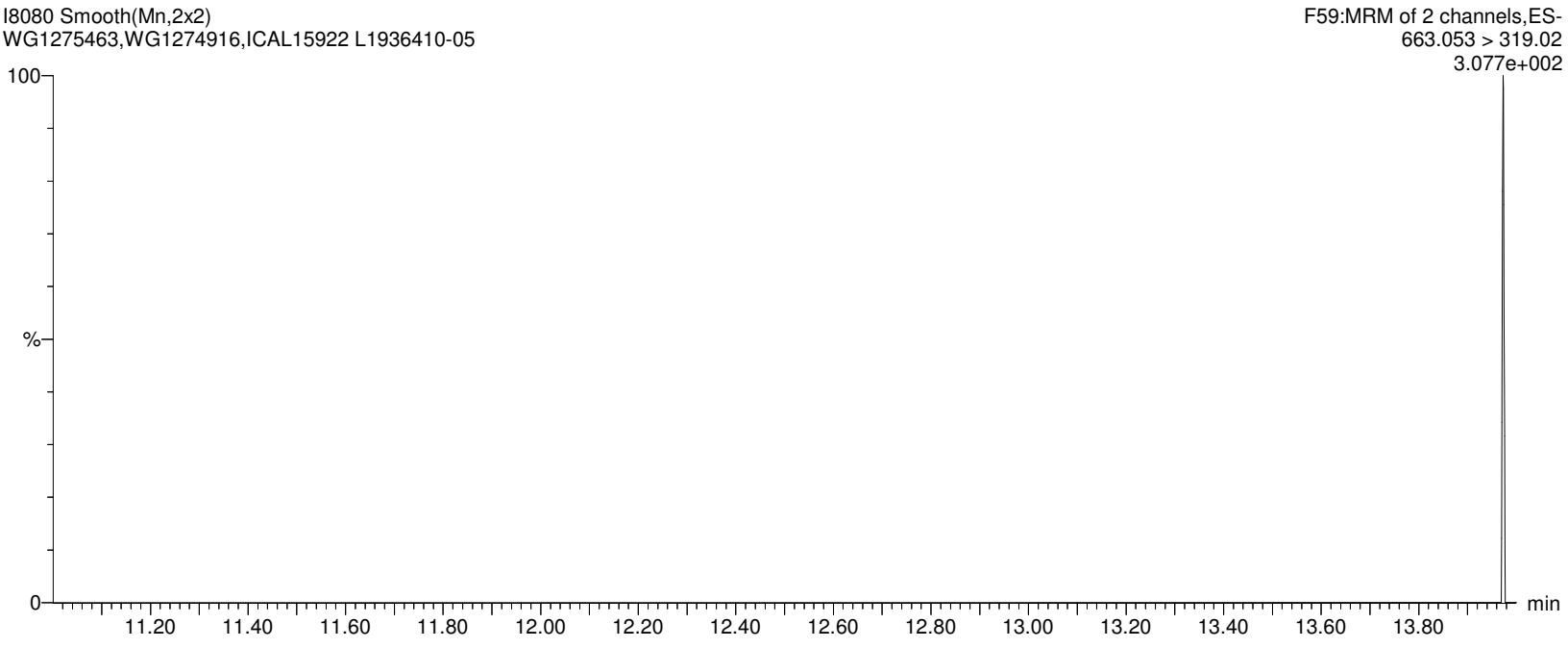
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PFTrDA



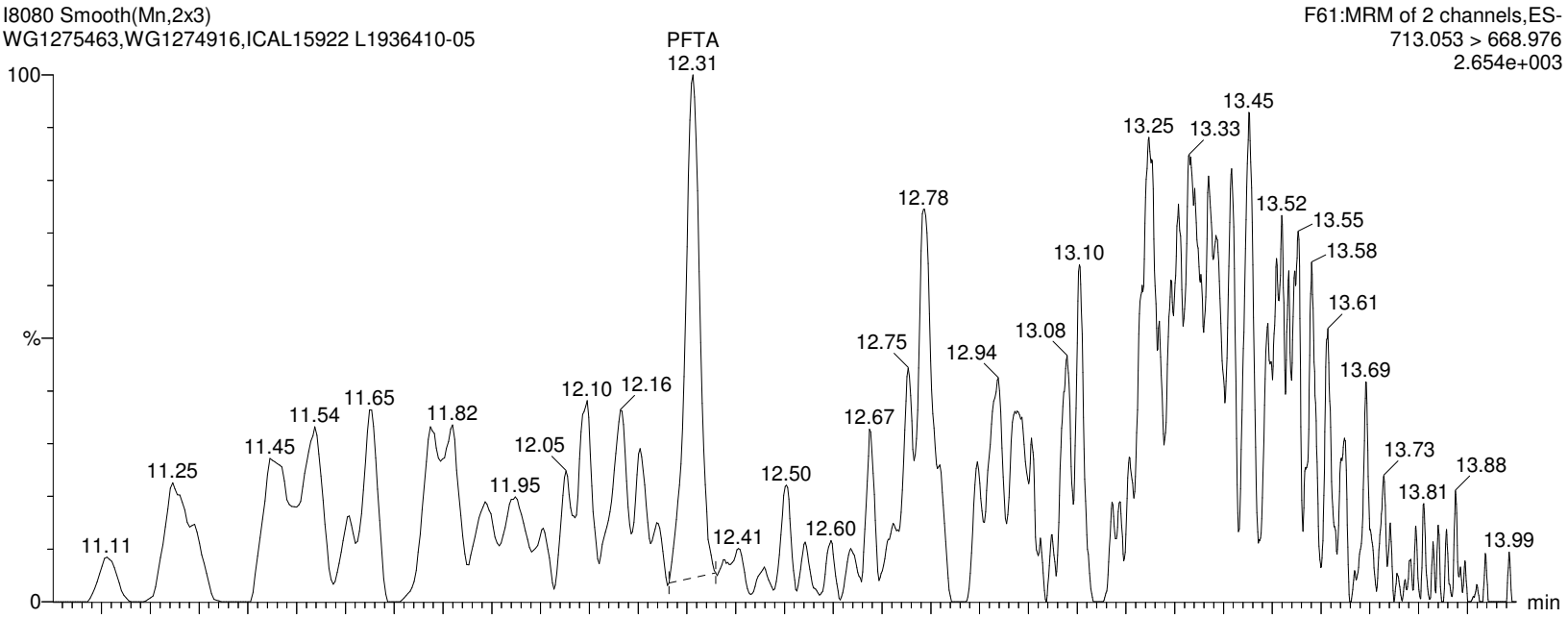


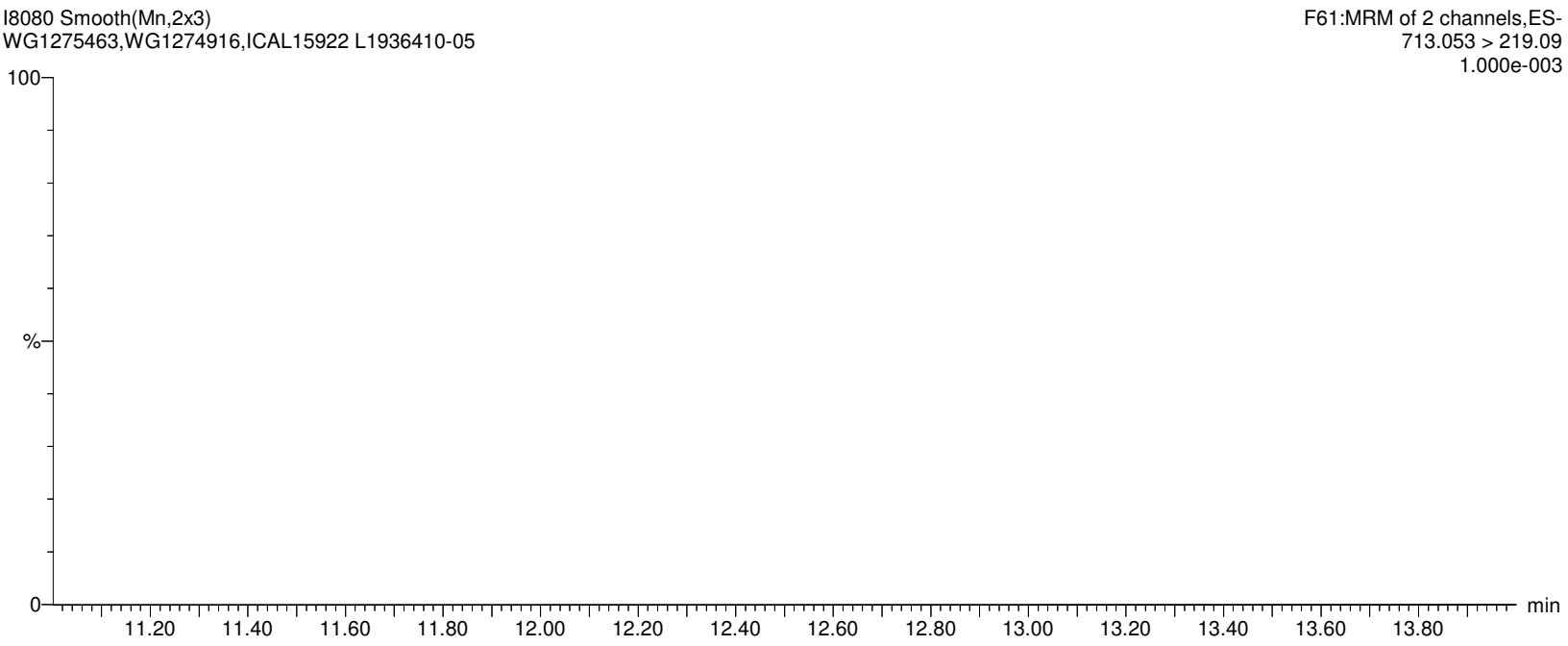
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PFTA



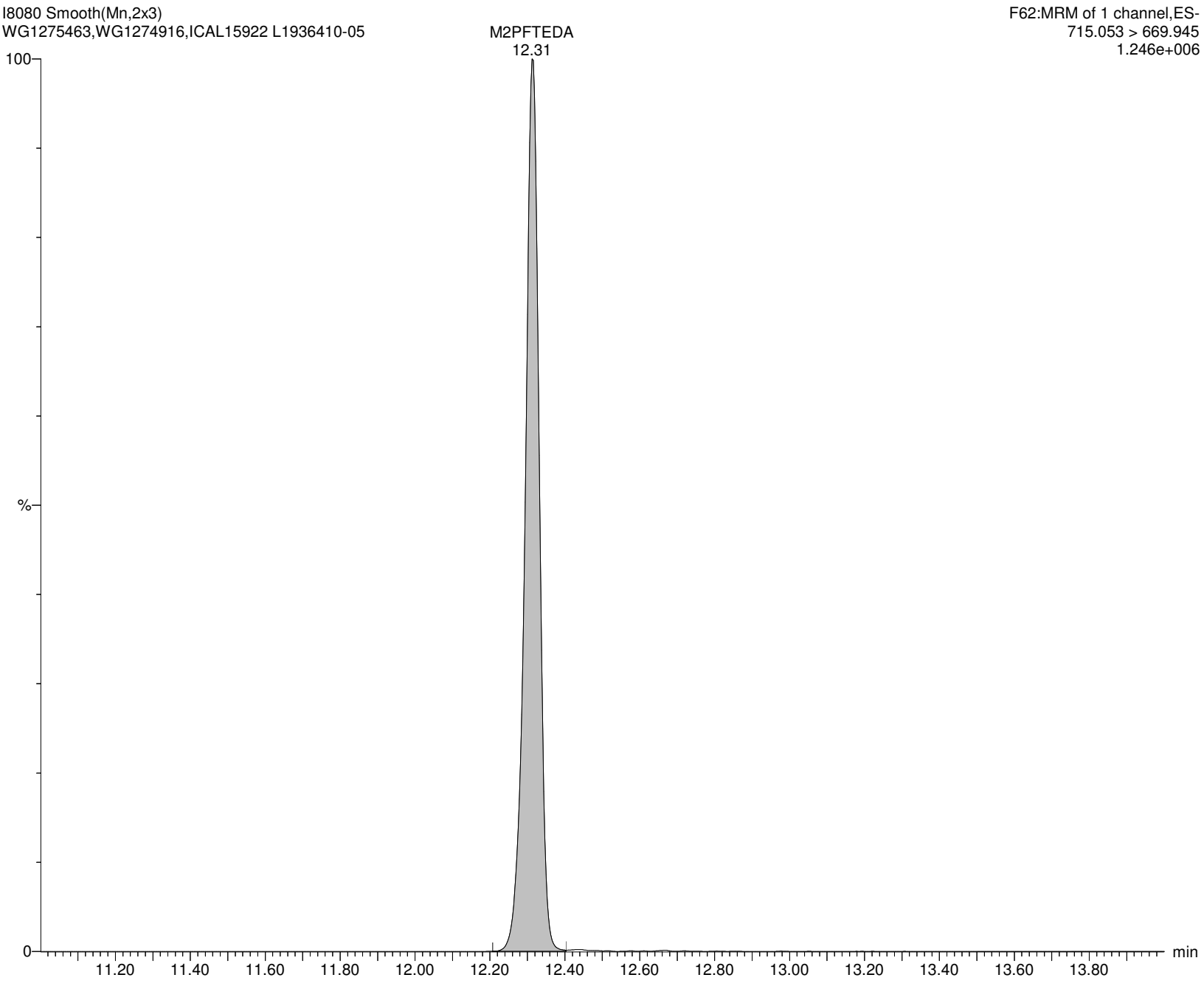


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M2PFTEDA



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Calibration: C:\MassLynx\Data\2019\190822_537ISO.PRO\CurveDB\190702_ISO_ICAL.cdb 02 Jul 2019 11:07:37

ID: L1936410-06
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Date: 22-Aug-2019
Time: 16:04:23
Description: WG1275463,WG1274916,ICAL15922
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
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Tune Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.07	212.926 > 169.111	1473		0.635		na	
2	M3PFBA	INT STD	2.07	215.926 > 172.122	26308		6.802		na	68.0
3	MPFBA	INT STD	2.07	216.926 > 172.137	25511		8.648		na	86.5
4	PFPeA	2706-90-3	4.98	262.926 > 219.002	1120		0.235		na	
5	M5PFPEA	INT STD	4.98	267.989 > 223.081	46363		11.103		na	111.0
6	PFBS	375-73-5	5.65	298.926 > 79.923	303		0.216	1.80	YES	
7	M3PFBS	INT STD	5.64	301.989 > 80.254	9444		8.418		na	84.2
8	4:2FTS	757124-72-4		326.926 > 306.957			ND		YES	
9	M2-4:2FTS	INT STD	6.82	329.117 > 309.079	5851		8.703		na	87.0
10	PFHxA	307-24-4	6.90	312.989 > 269.028	1646		0.264		YES	
11	M5PFHxA	INT STD	6.90	317.989 > 273.045	63052		7.165		na	71.7
12	PFPeS	2706-91-4		348.926 > 80.251			ND		YES	
13	PFHpA	375-85-9	8.20	362.926 > 319.014	1749		0.210	6.41	NO	
14	M4PFHpA	INT STD	8.20	366.926 > 321.979	83352		7.435		na	74.3
15	br-PFHxS	355-46-4		398.926 > 80.295			ND		YES	
16	L-PFHxS	355-46-4		398.926 > 80.295			ND		YES	
17	PFHxS	355-46-4		398.926 > 80.295	0		ND		na	
18	M3PFHxS	INT STD	8.36	401.926 > 80.317	6123		8.807		na	88.1
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	YES	
20	L-PFOA	335-67-1	9.16	412.989 > 368.9	3018		0.332	12.11	NO	
21	M2PFOA	INT STD	9.15	415.032 > 369.968	104377		11.448		na	114.5
22	PFOA	335-67-1		412.989 > 368.9	3018		0.332		na	
23	M8PFOA	INT STD	9.15	420.989 > 375.979	91633		8.836		na	88.4
24	6:2FTS	27619-97-2		426.989 > 406.921			ND		YES	
25	M2-6:2FTS	INT STD	9.11	428.989 > 408.917	3856		6.366		na	63.7
26	PFHpS	375-92-8		448.926 > 80.257			ND		YES	
27	PFNA	375-95-1	9.91	462.989 > 418.931	1397		0.180	4.12	NO	
28	M9PFNA	INT STD	9.91	472.053 > 426.947	85727		8.927		na	89.3
29	br-PFOS	1763-23-1	9.77	498.989 > 80.294	173	m5	0.189	1.03	NO	
30	L-PFOS	1763-23-1	9.96	498.989 > 80.294	269		0.308		YES	
31	PFOS	1763-23-1		498.989 > 80.294	442		0.496		na	
32	M4PFOS	INT STD	9.96	503.032 > 80.306	8429		11.333		na	113.3
33	M8PFOS	INT STD	9.96	507.053 > 80.294	8465		9.325		na	93.2
34	PFDA	335-76-2		513.053 > 468.906			ND		YES	
35	M2PFDA	INT STD	10.54	515.053 > 469.934	85692		11.981		na	119.8
36	M6PFDA	INT STD	10.54	519.053 > 473.931	78753		8.219		na	82.2
37	8:2FTS	39108-34-4		526.926 > 506.818			ND		na	
38	M2-8:2FTS	INT STD	10.53	529.053 > 508.945	1542		4.639		na	46.4
39	PFNS	68259-12-1		548.989 > 80.249			ND		YES	

all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, August 23, 2019 09:51:17 Eastern Daylight Time
Printed: Friday, August 23, 2019 09:51:37 Eastern Daylight Time

ID: L1936410-06
Name: I8081
Date: 22-Aug-2019
Time: 16:04:23
Description: WG1275463,WG1274916,ICAL15922
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.91	573.096 > 418.987	4931		5.186		na	51.9
41	NMeFOSAA	2355-31-9		570.053 > 418.917			ND		YES	
42	PFUnA	2058-94-8		562.989 > 518.903			ND		YES	
43	M7-PFUDA	INT STD	11.07	570.053 > 524.923	63118		7.450		na	74.5
44	PFDS	335-77-3		598.926 > 80.314			ND		YES	
45	FOSA	754-91-6		497.989 > 78.245			ND		YES	
46	M8FOSA	INT STD	10.93	506.053 > 78.286	5471		1.919		na	19.2
47	d5-NEtFOSAA	INT STD	11.20	589.117 > 418.929	4117		4.779		na	47.8
48	NEtFOSAA	2991-50-6		583.989 > 418.927			ND		YES	
49	PFDoA	307-55-1		612.989 > 568.967			ND		YES	
50	MPFDOA	INT STD	11.54	614.989 > 569.92	60193		6.417		na	64.2
51	PFTrDA	72629-94-8		663.053 > 618.969			ND		YES	
52	PFTA	376-06-7		713.053 > 668.976			ND		YES	
53	M2PFTEDA	INT STD	12.31	715.053 > 669.945	52660		6.644		na	66.4

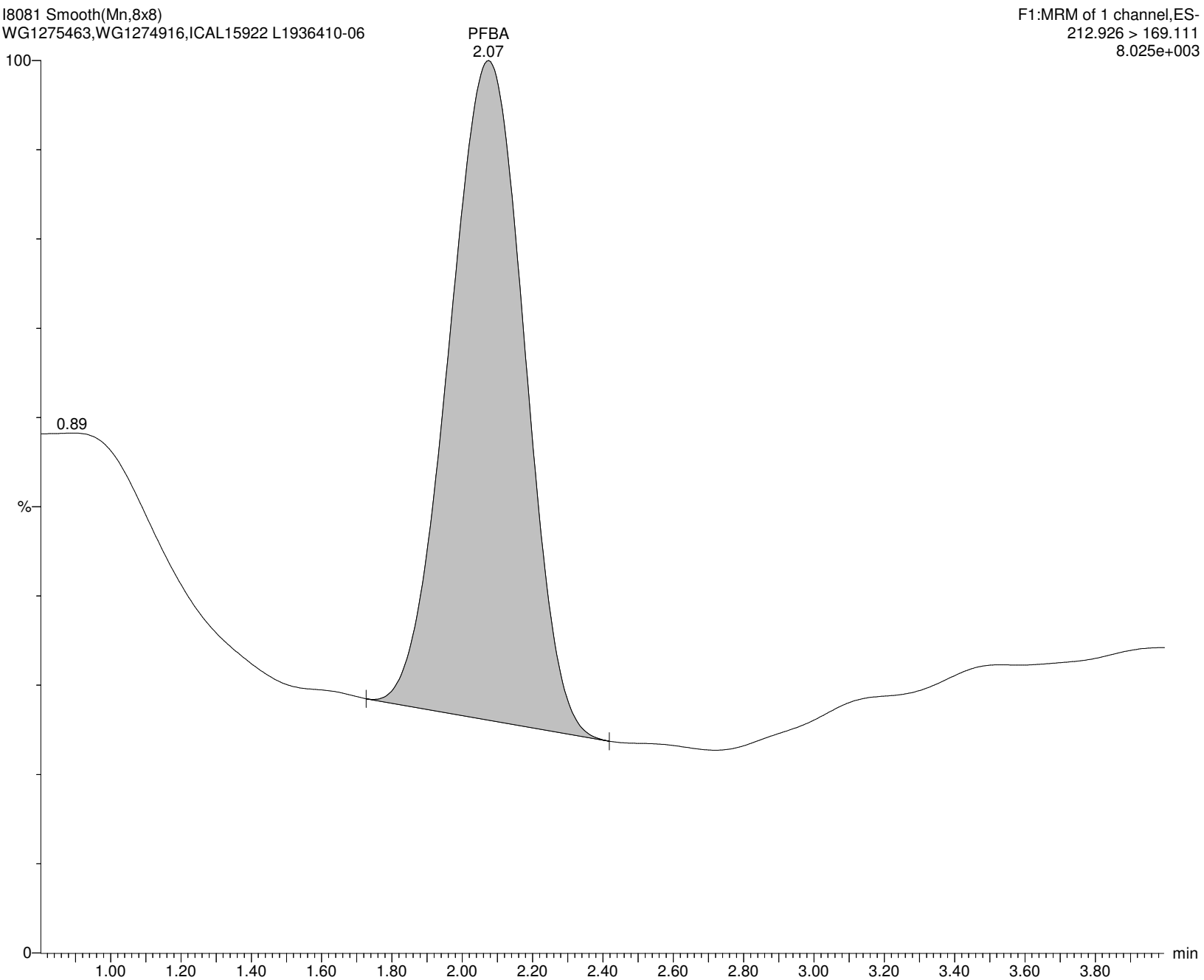
all concentration units in (ng/mL)

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Last Altered: Friday, August 23, 2019 09:51:17 Eastern Daylight Time
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Name: I8081
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Date: 22-Aug-2019
Time: 16:04:23
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:D,3
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\181009_TUNE.IPR
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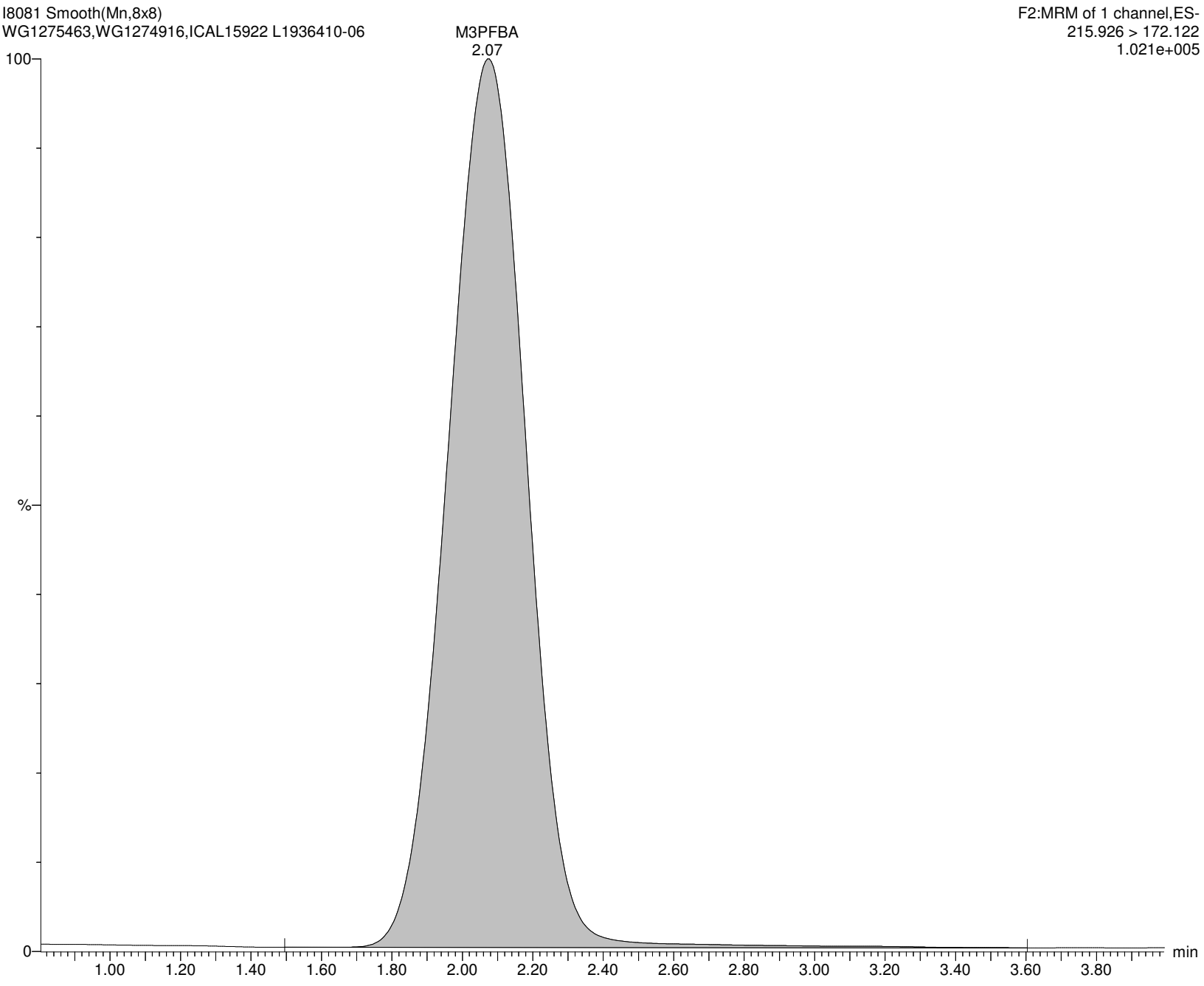


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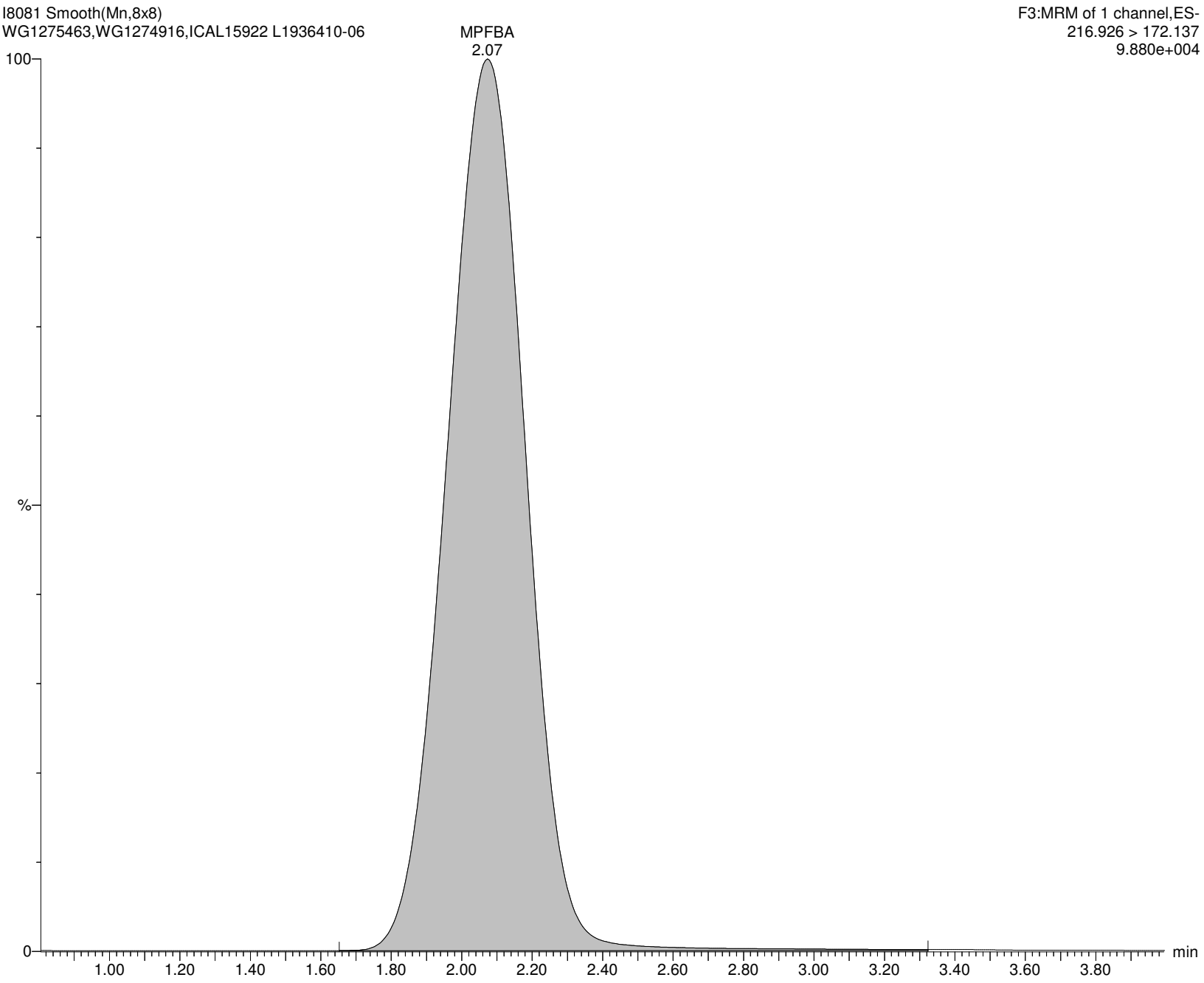


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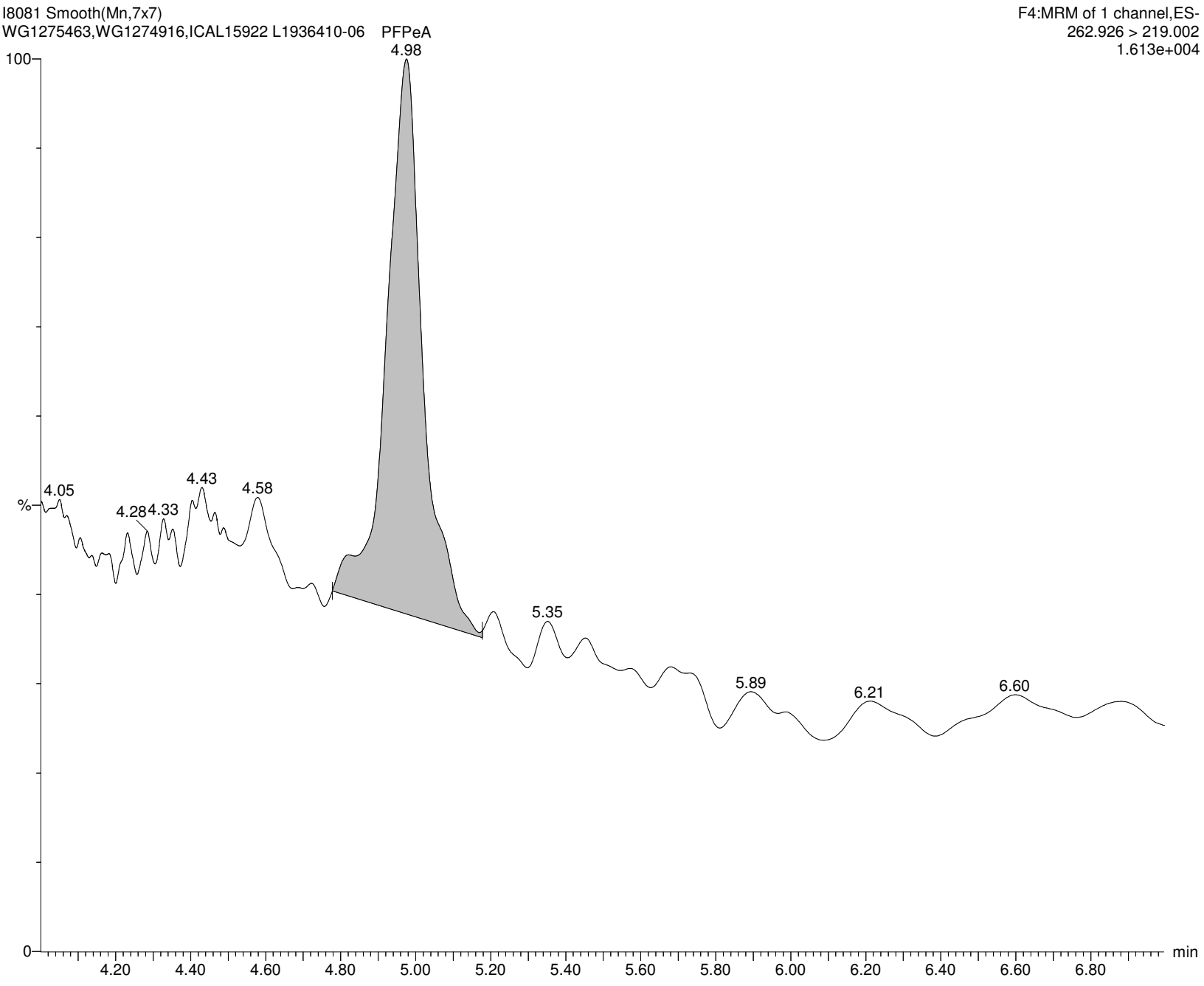


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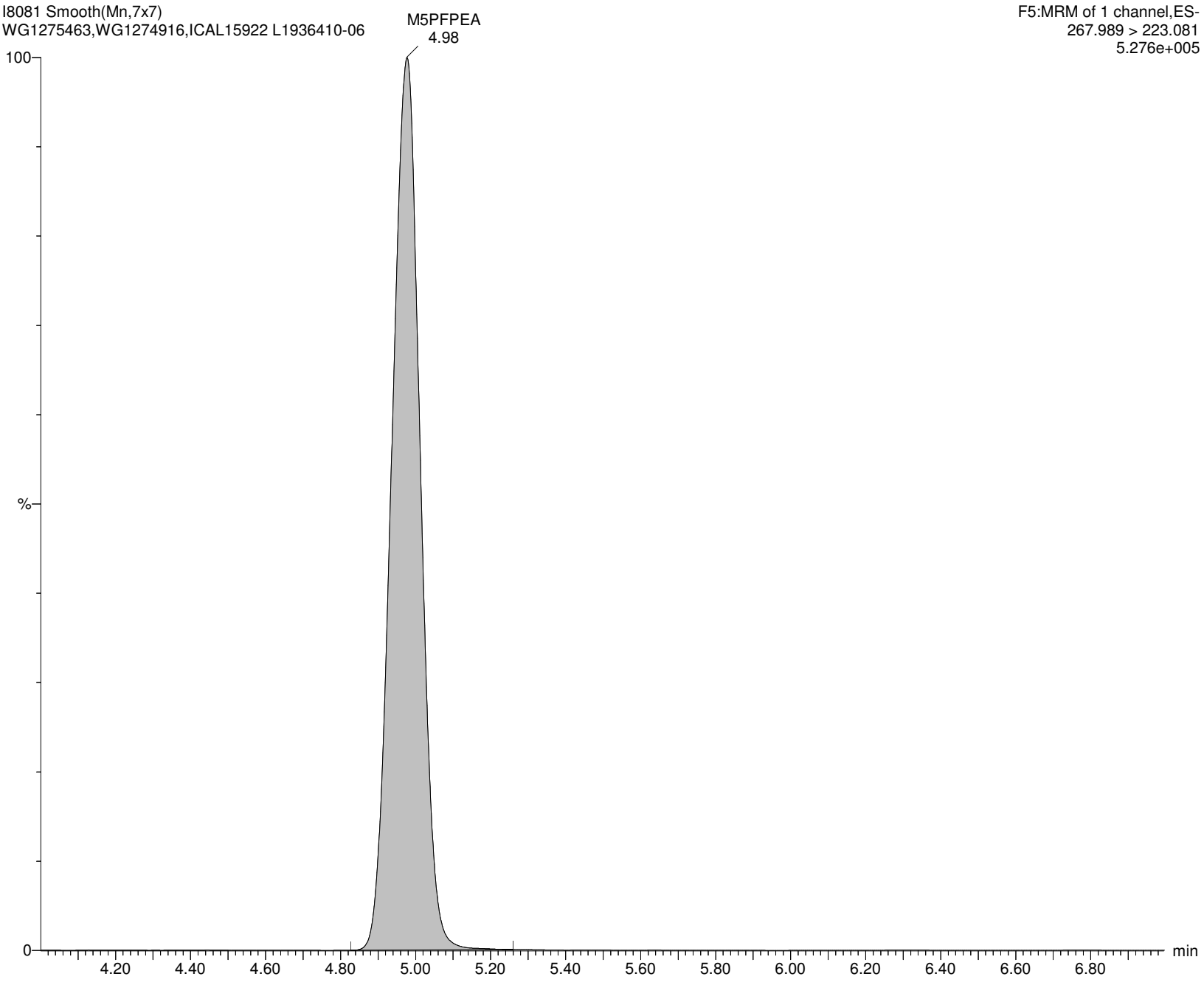


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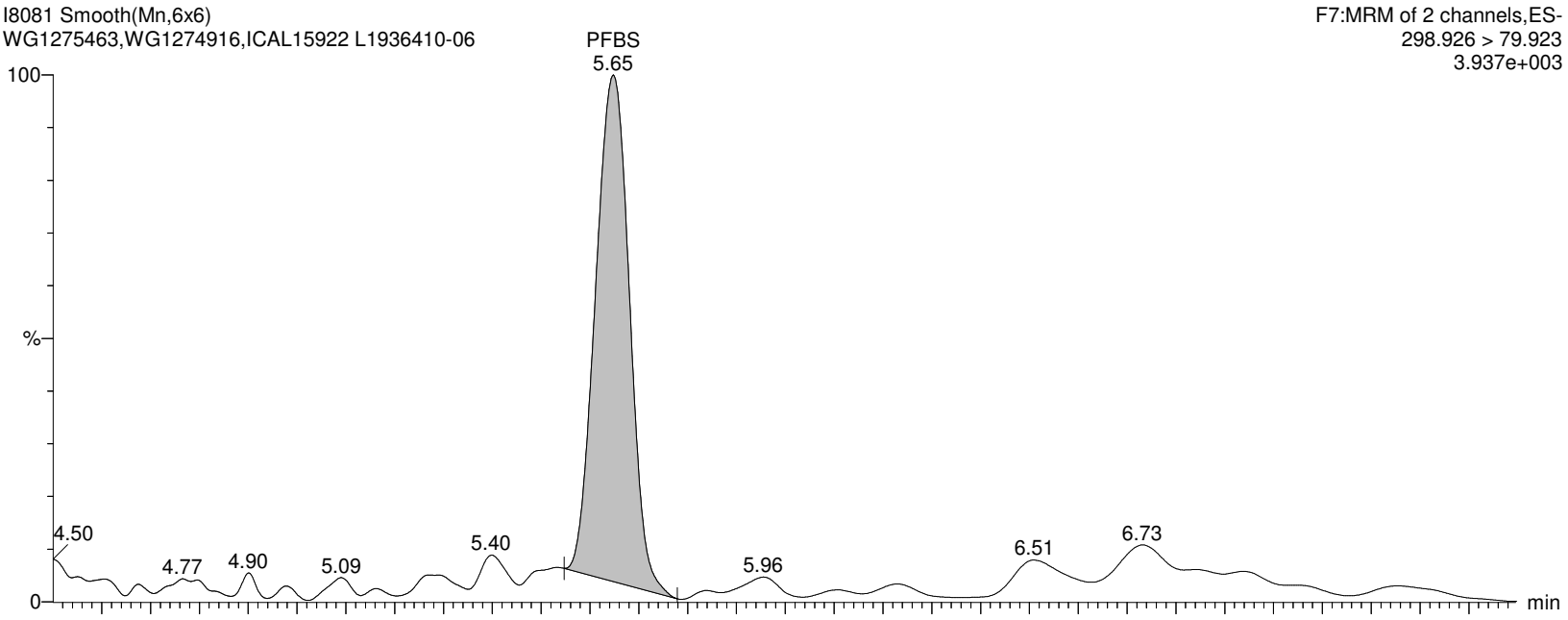


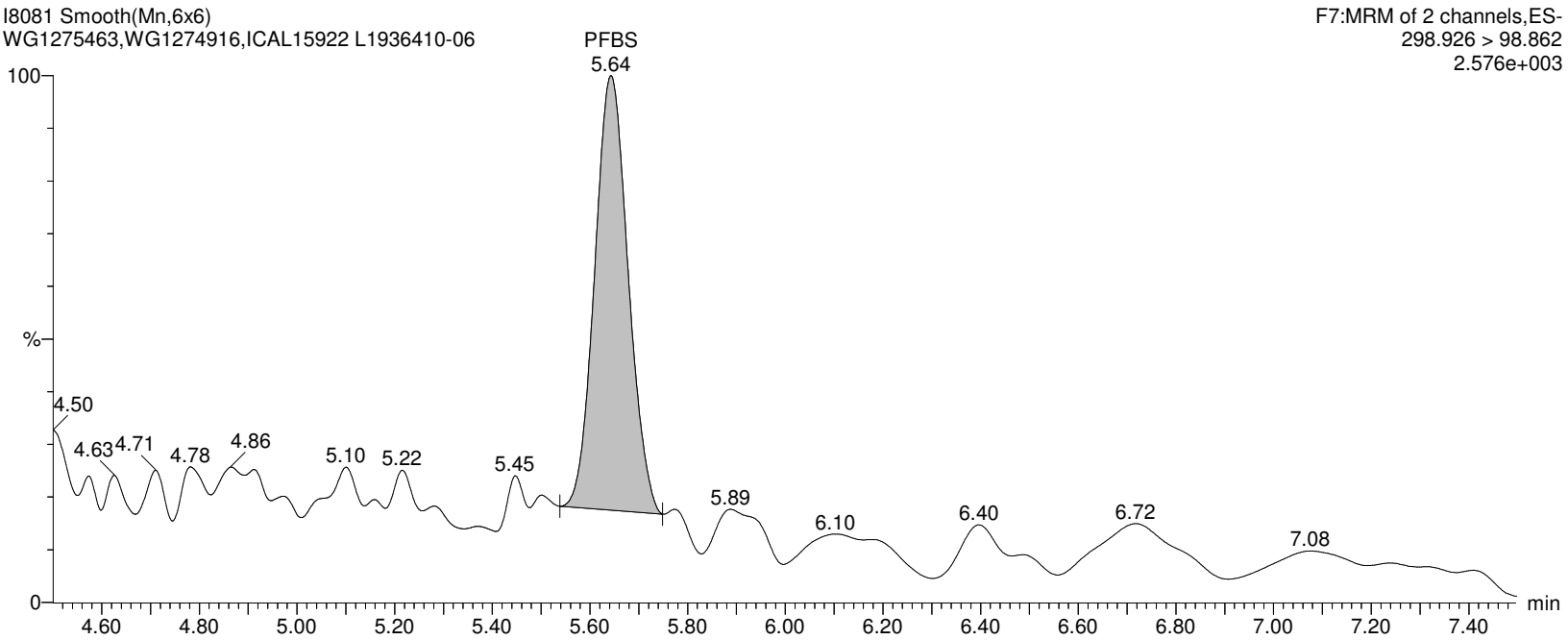
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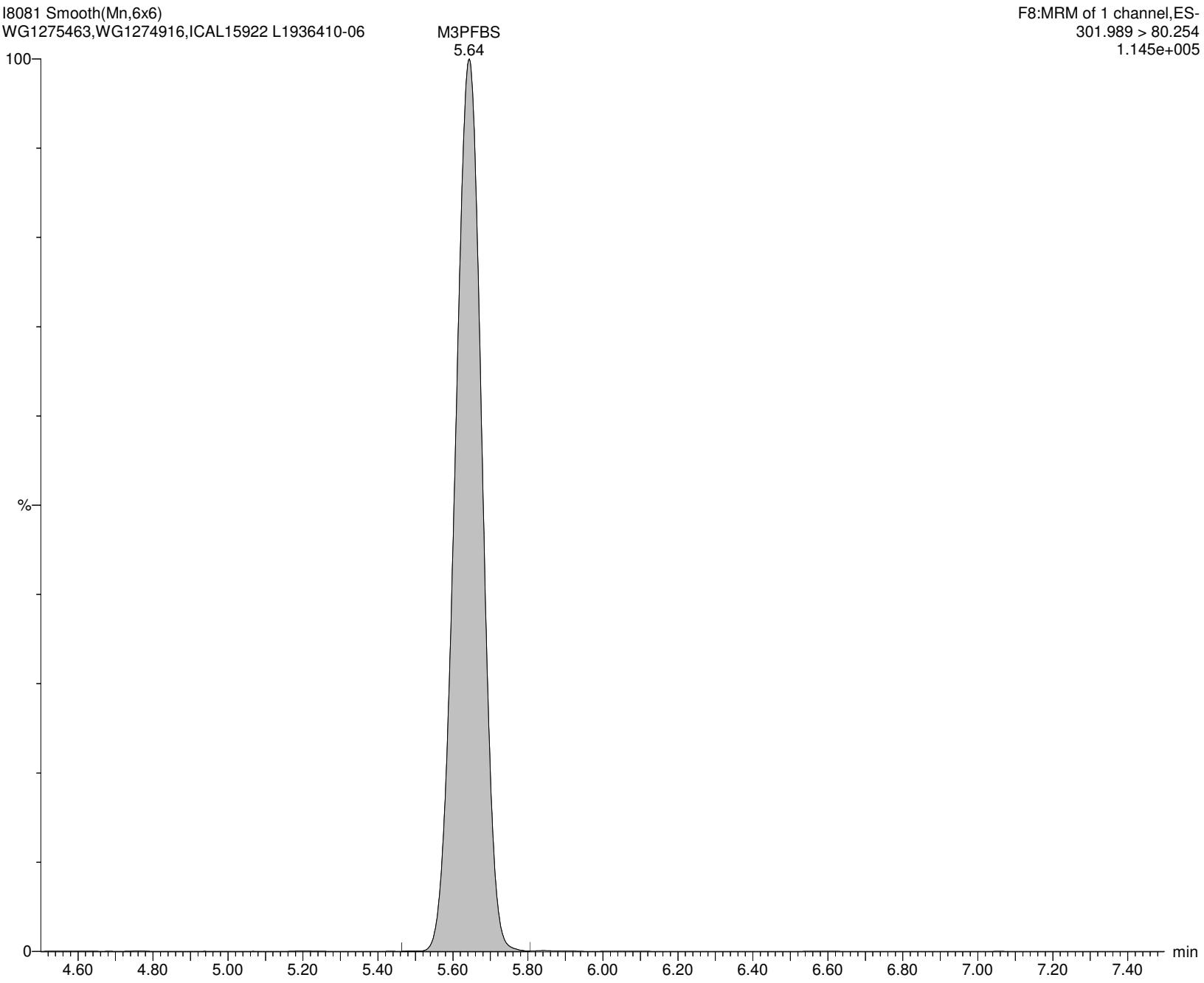


all concentration units in (ng/mL)

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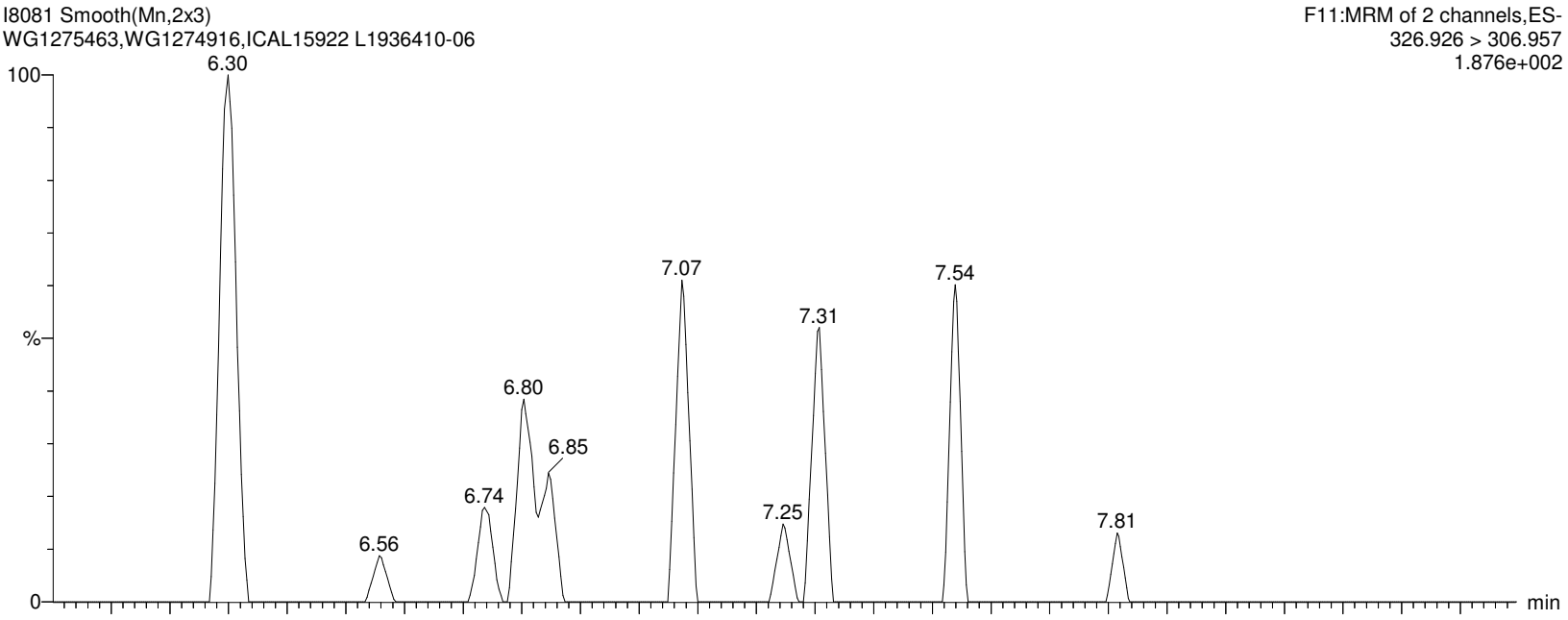


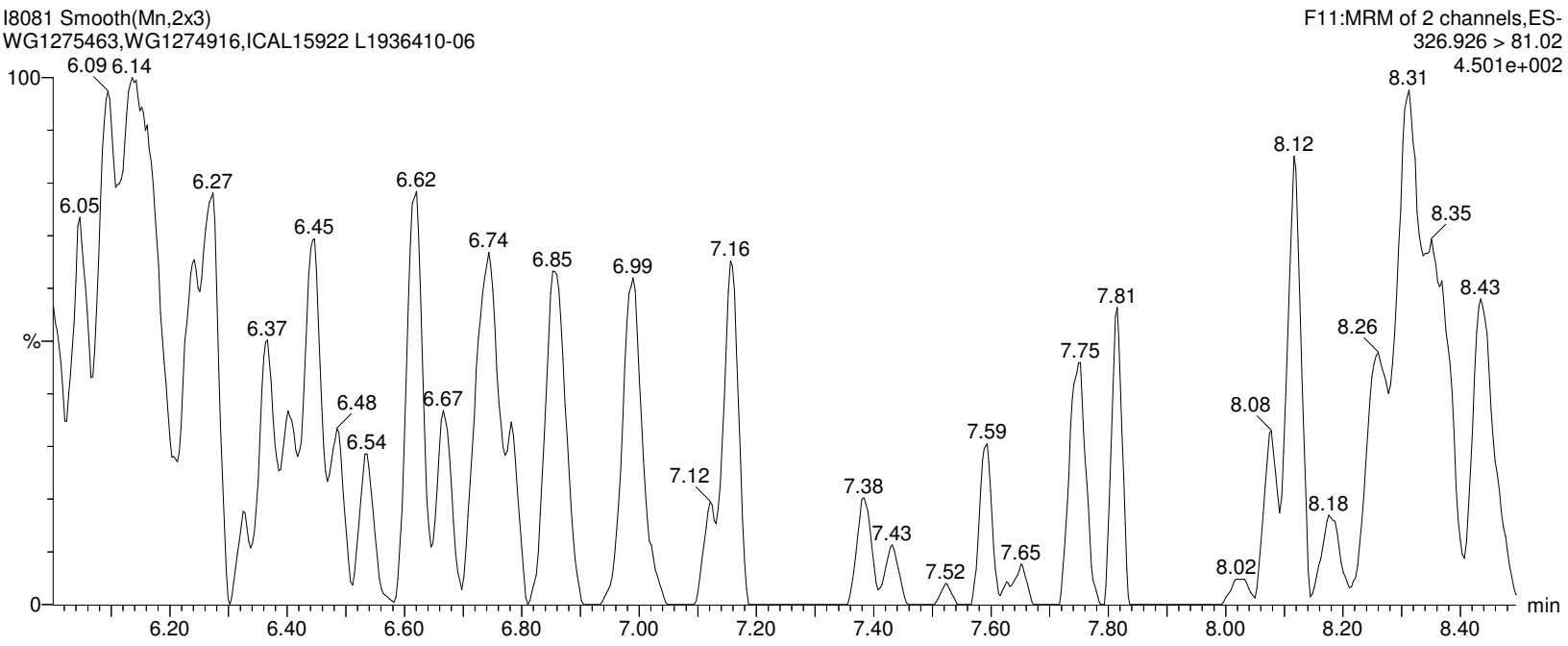
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MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

4:2FTS



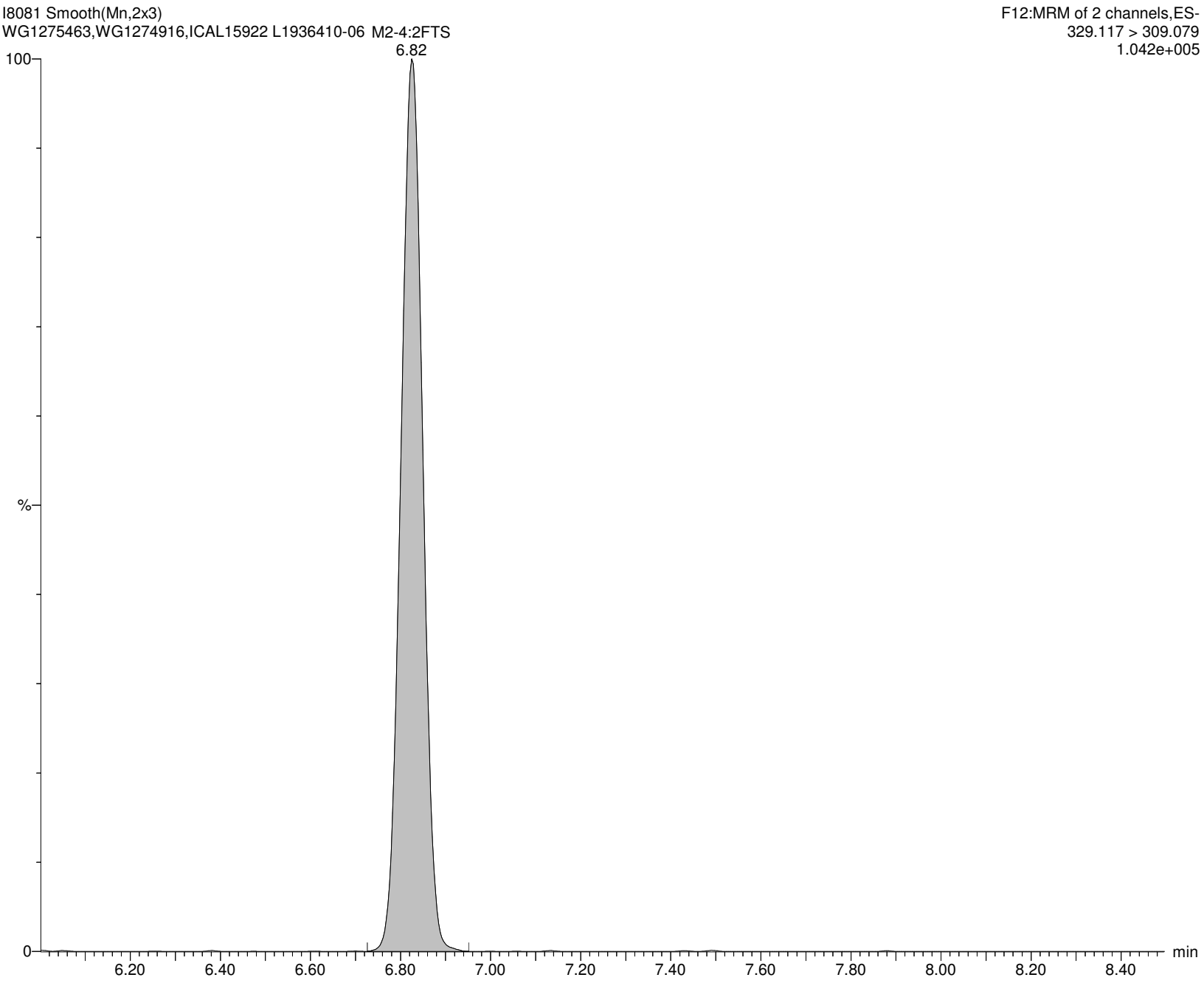


all concentration units in (ng/mL)

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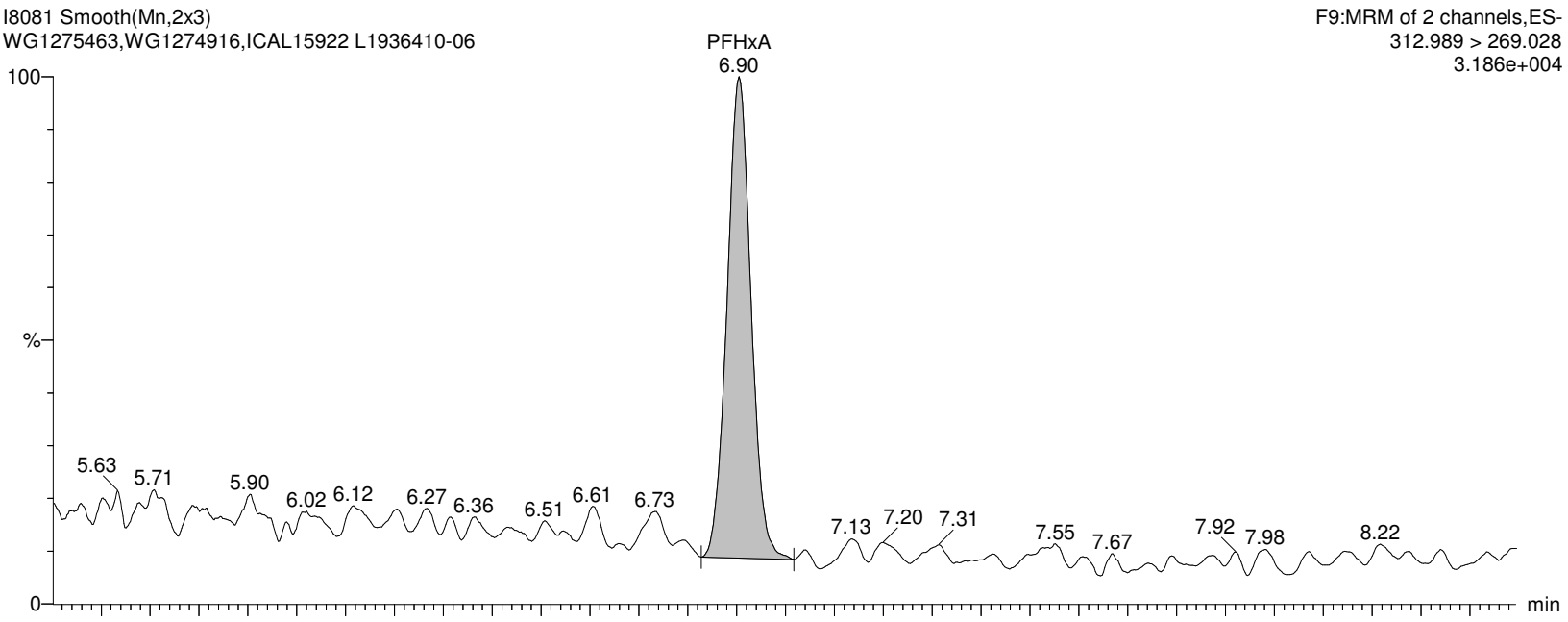


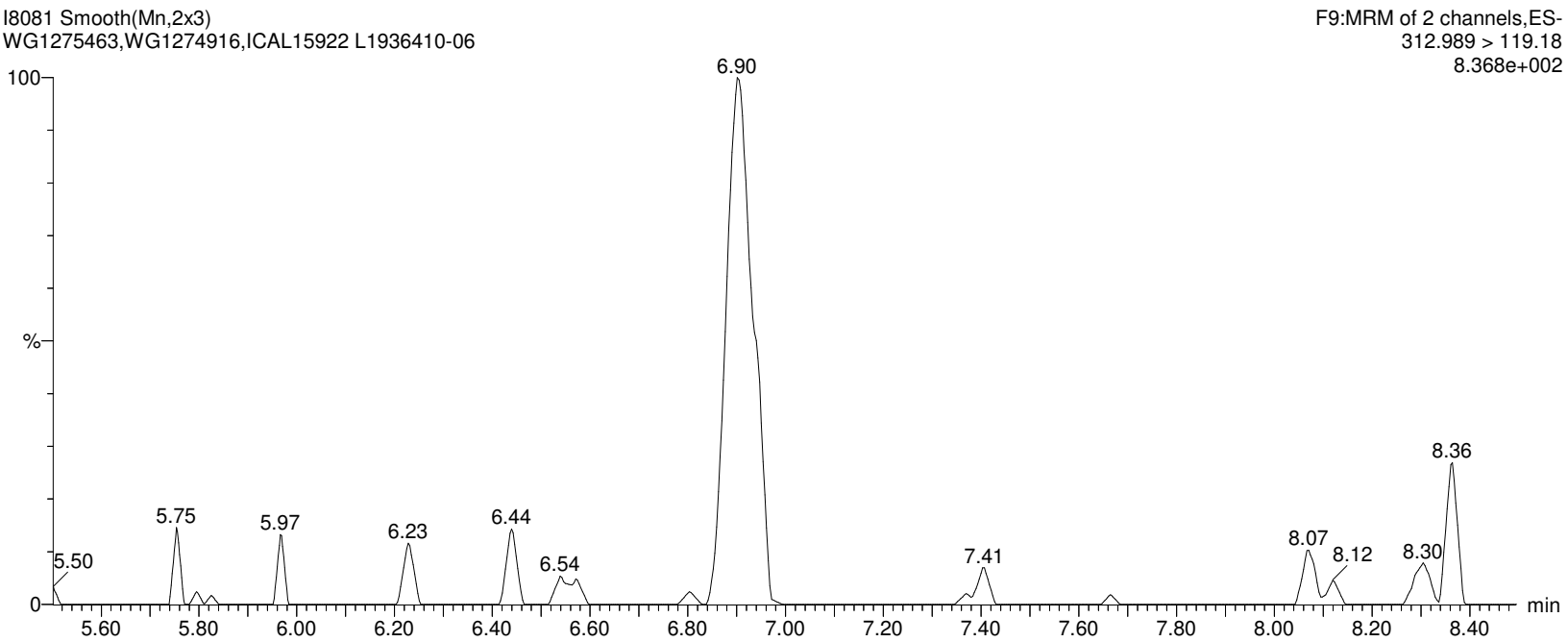
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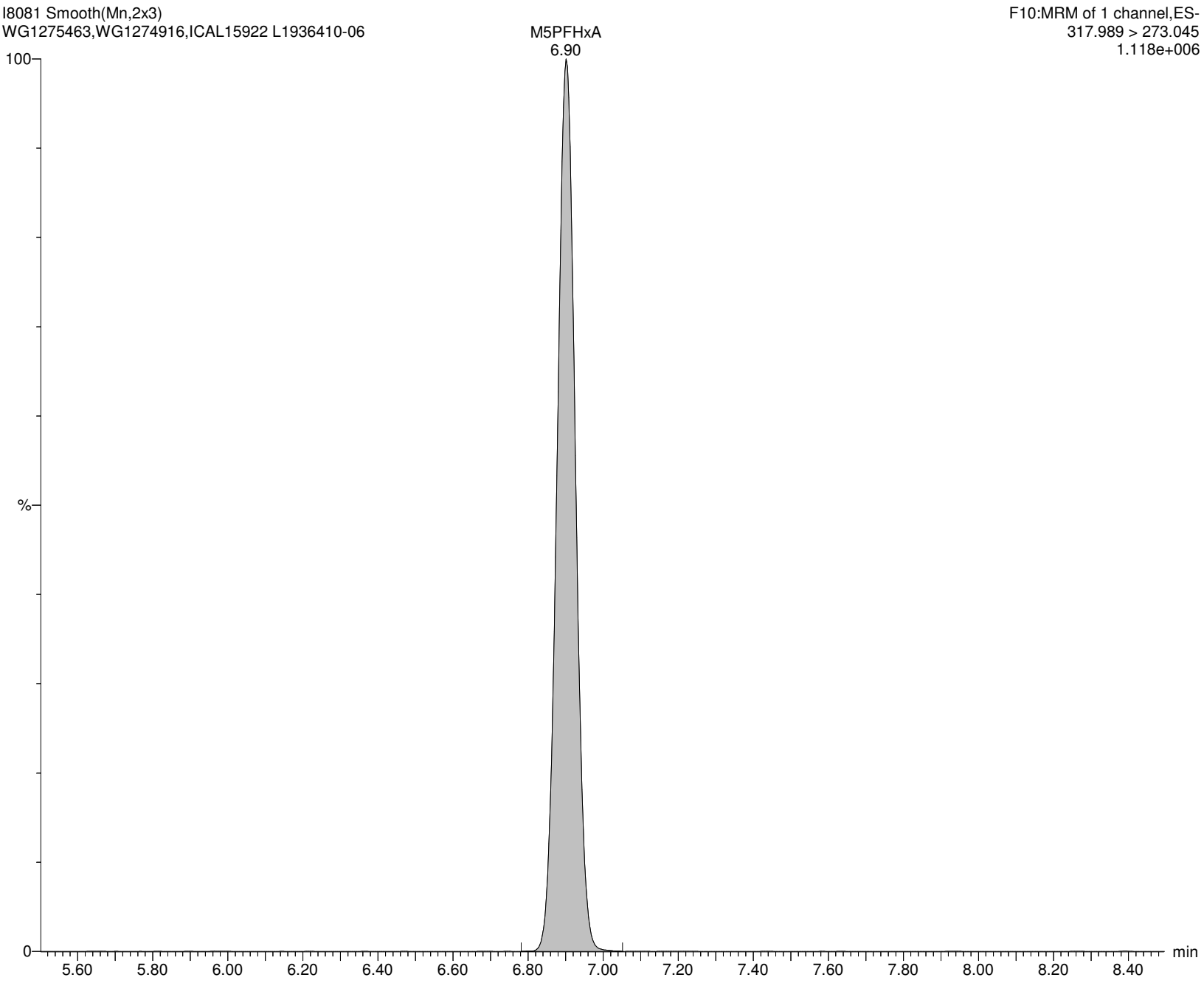


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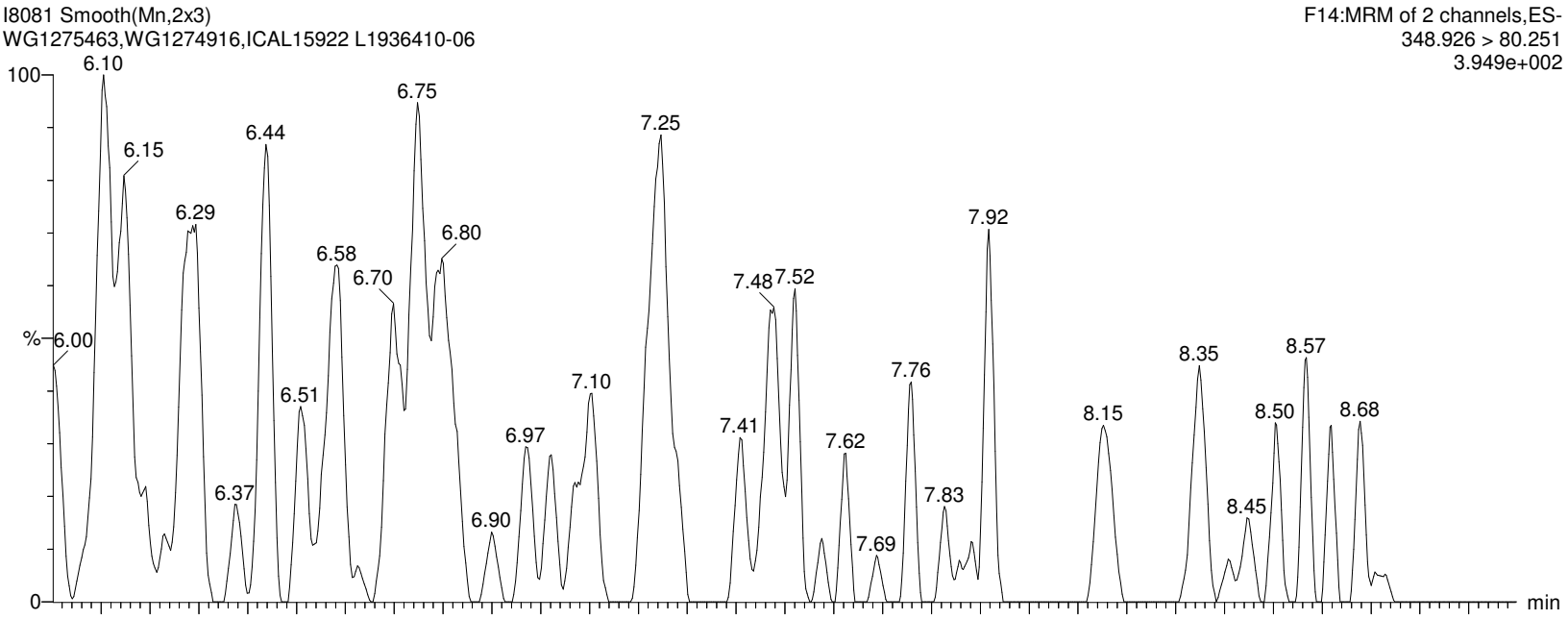


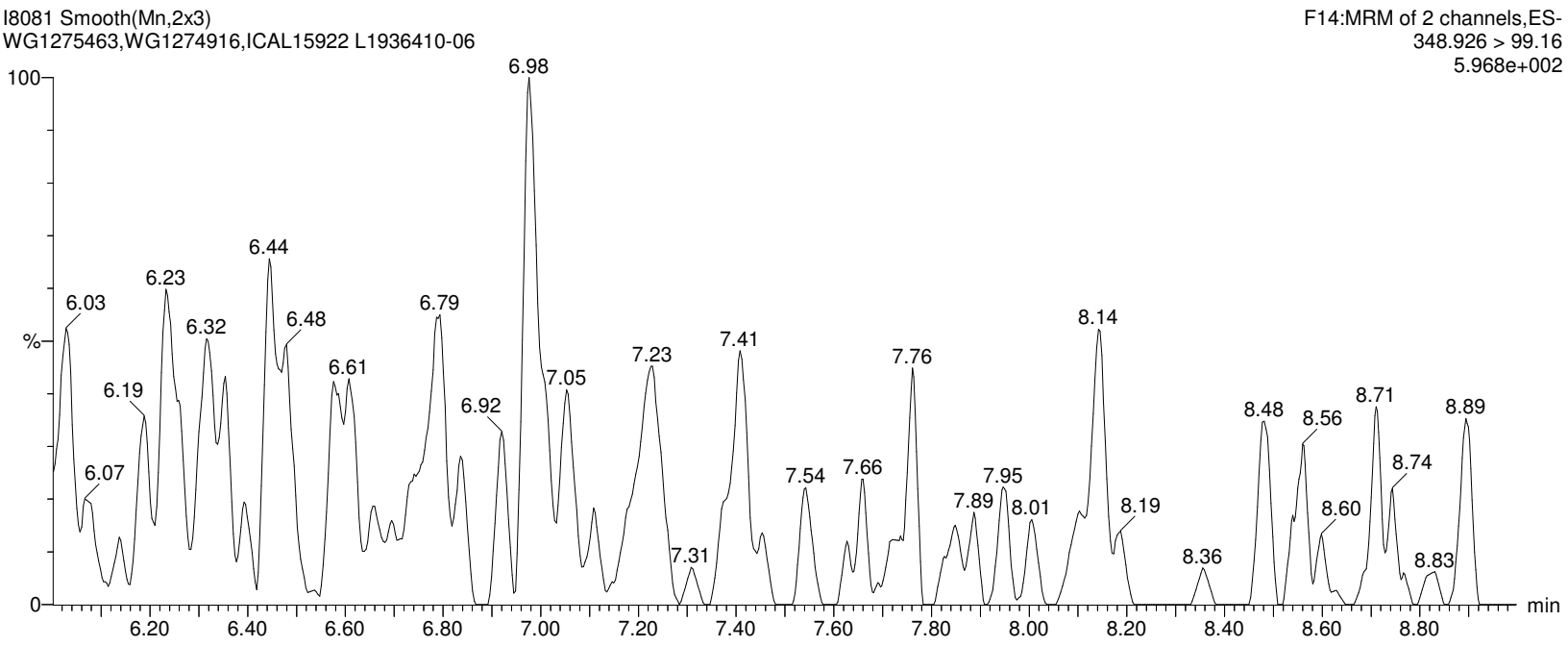
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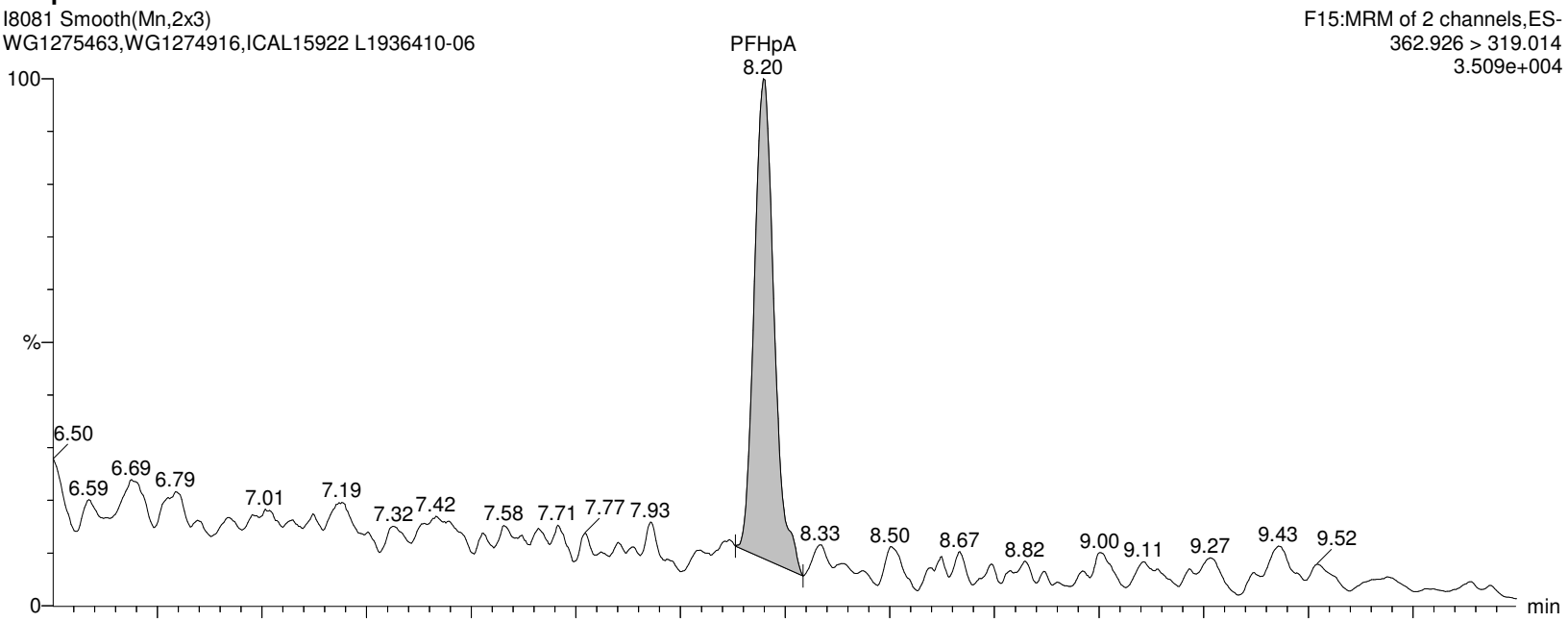


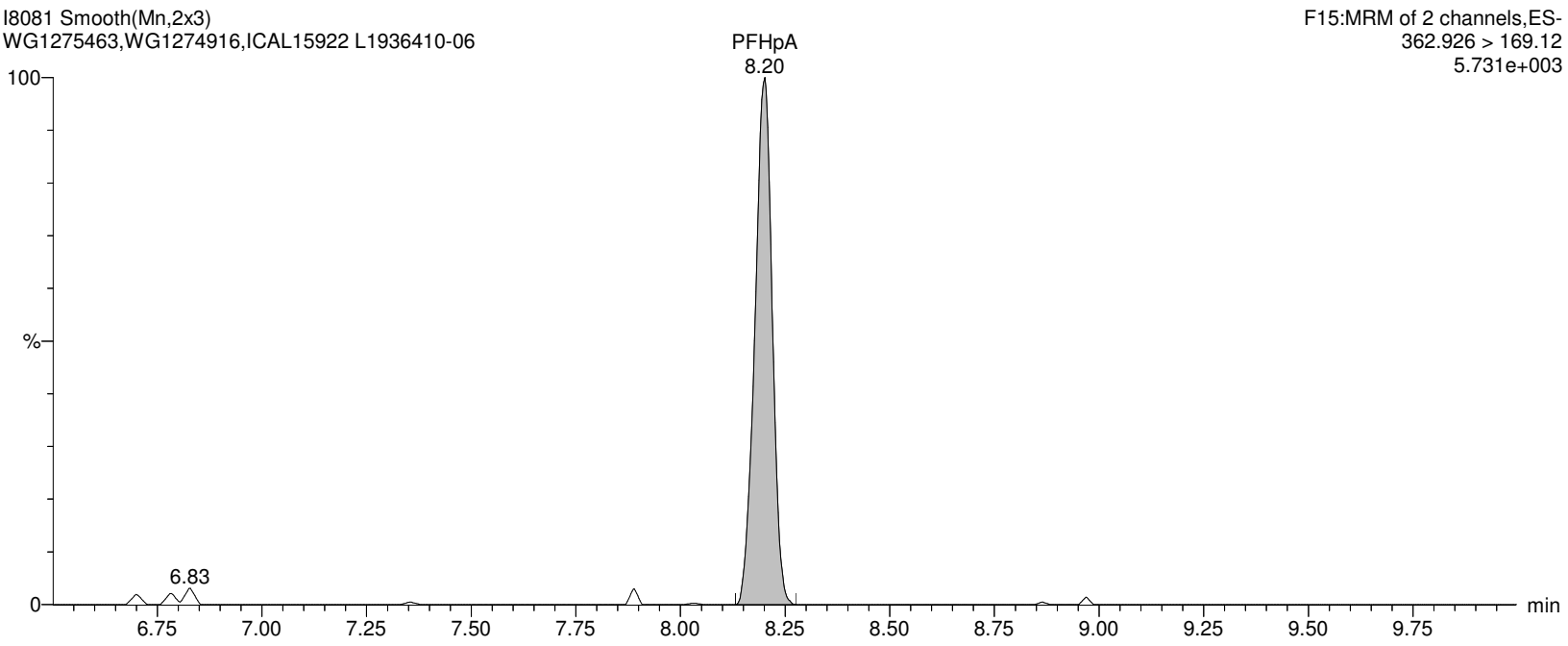
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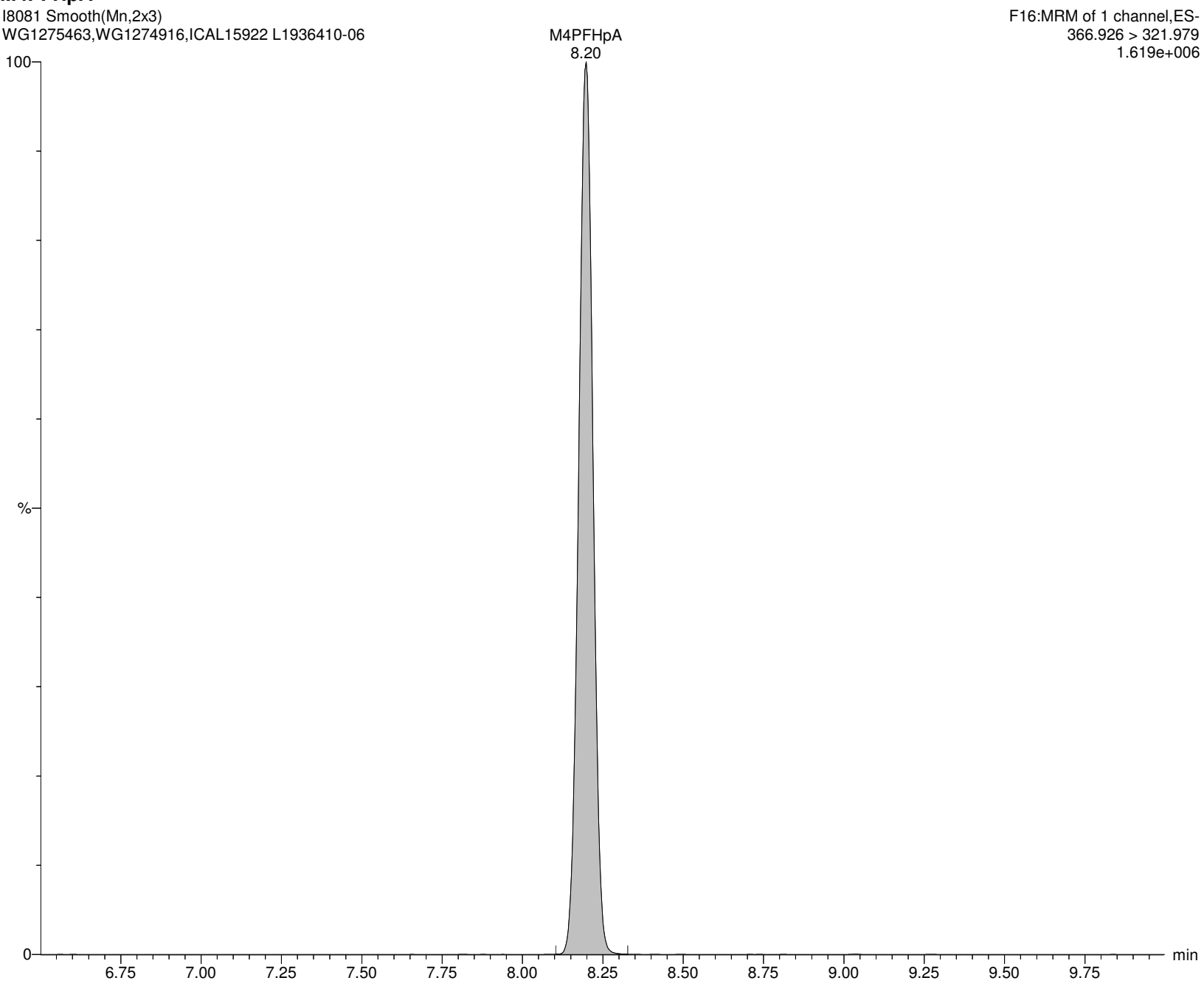


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M4PFHpA

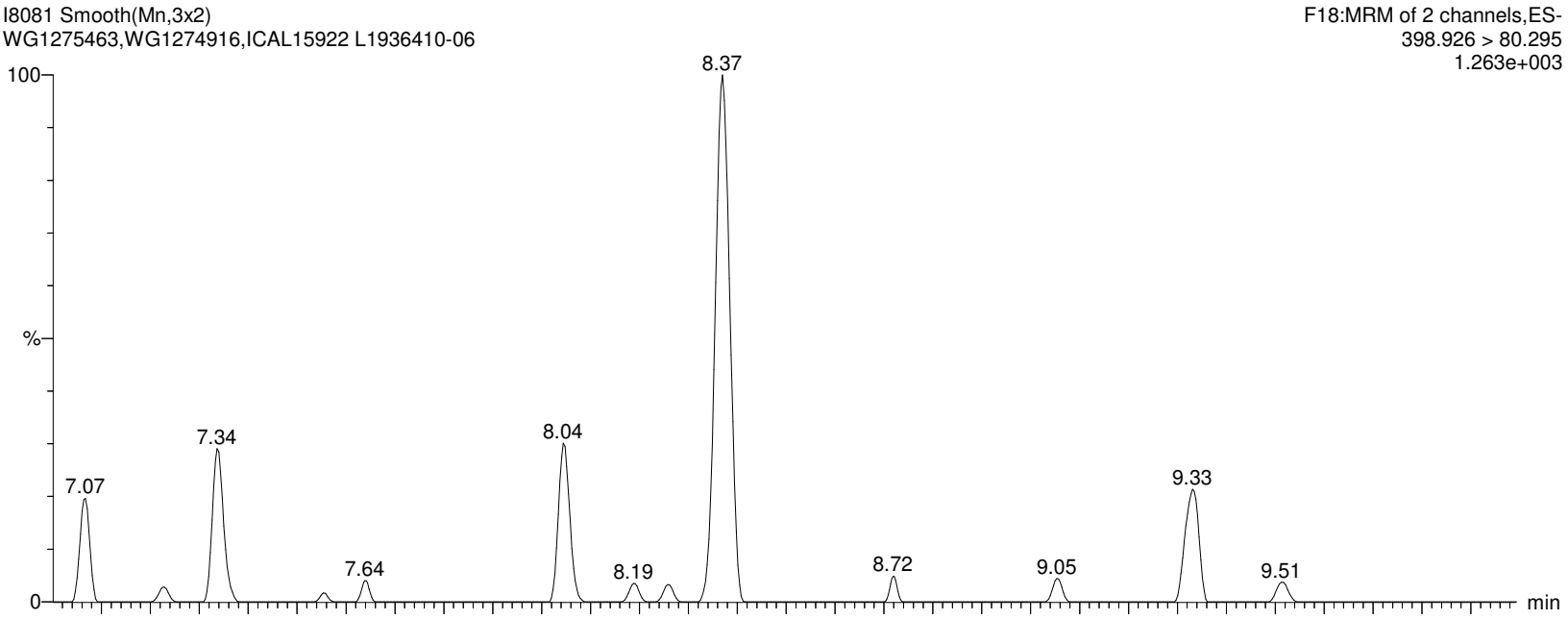


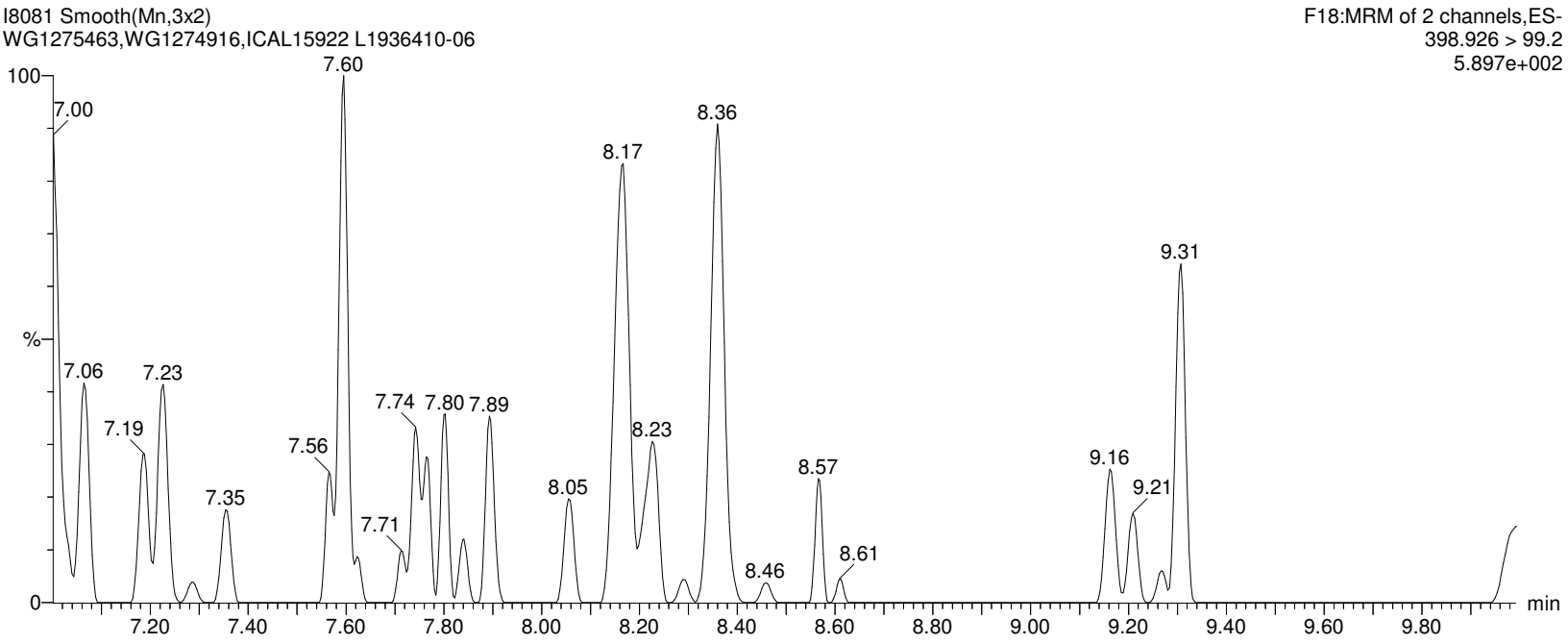
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\wg1275463b.qld
Last Altered: Friday, August 23, 2019 09:51:17 Eastern Daylight Time
Printed: Friday, August 23, 2019 09:51:37 Eastern Daylight Time

Name: I8081
ID: L1936410-06
Date: 22-Aug-2019
Time: 16:04:23
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:D,3
Instrument: XEVO-TQSmicro#QEB0050
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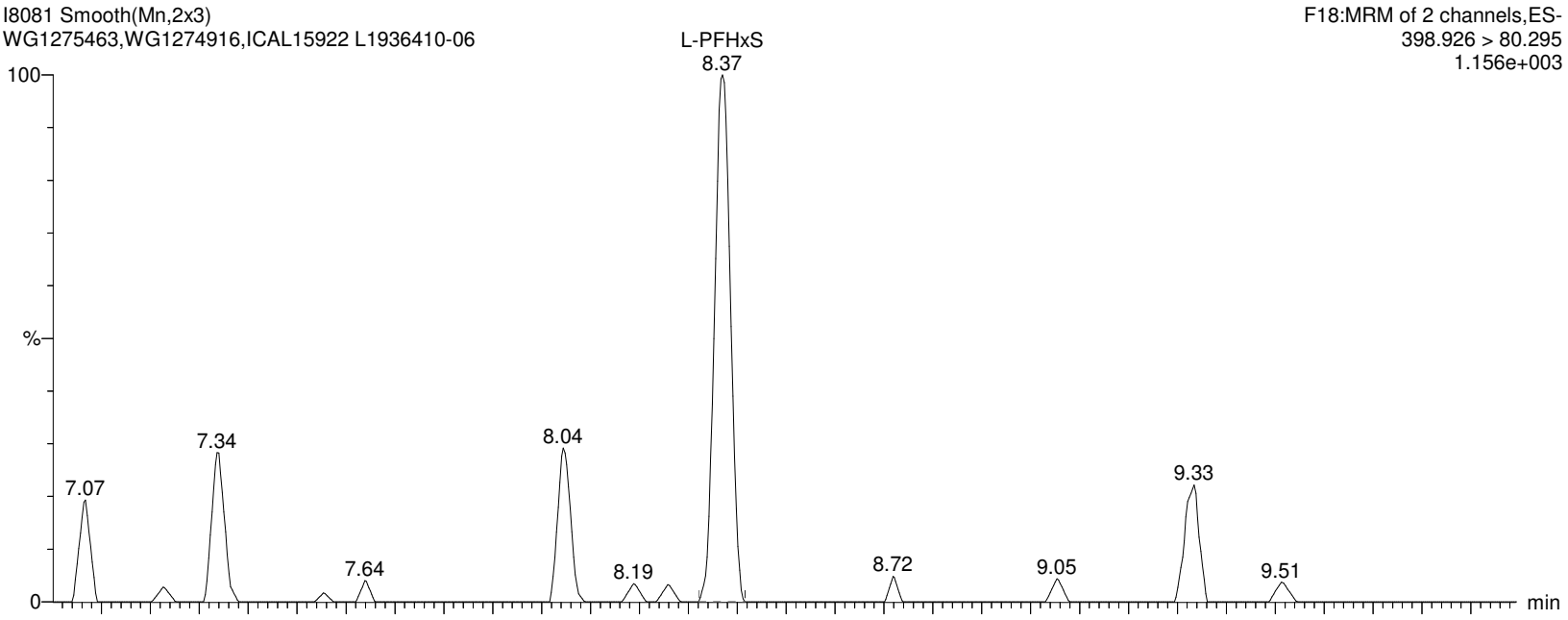


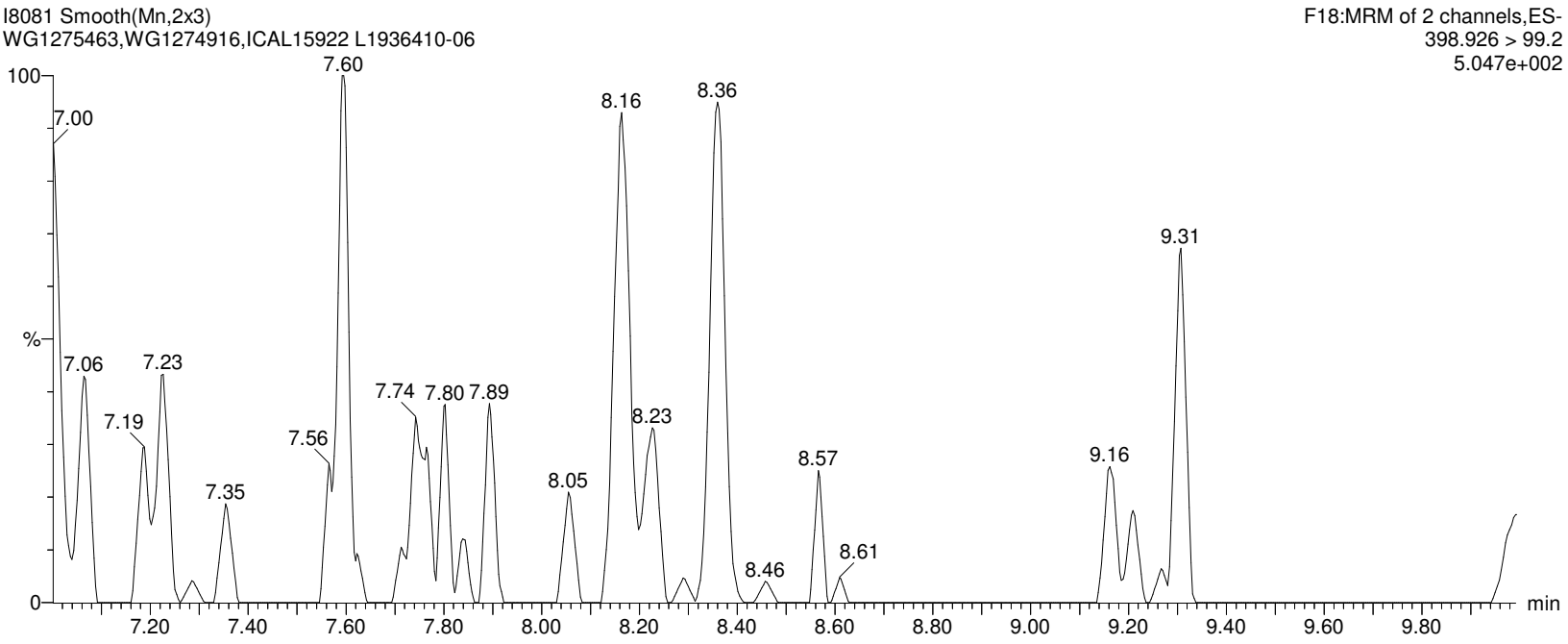
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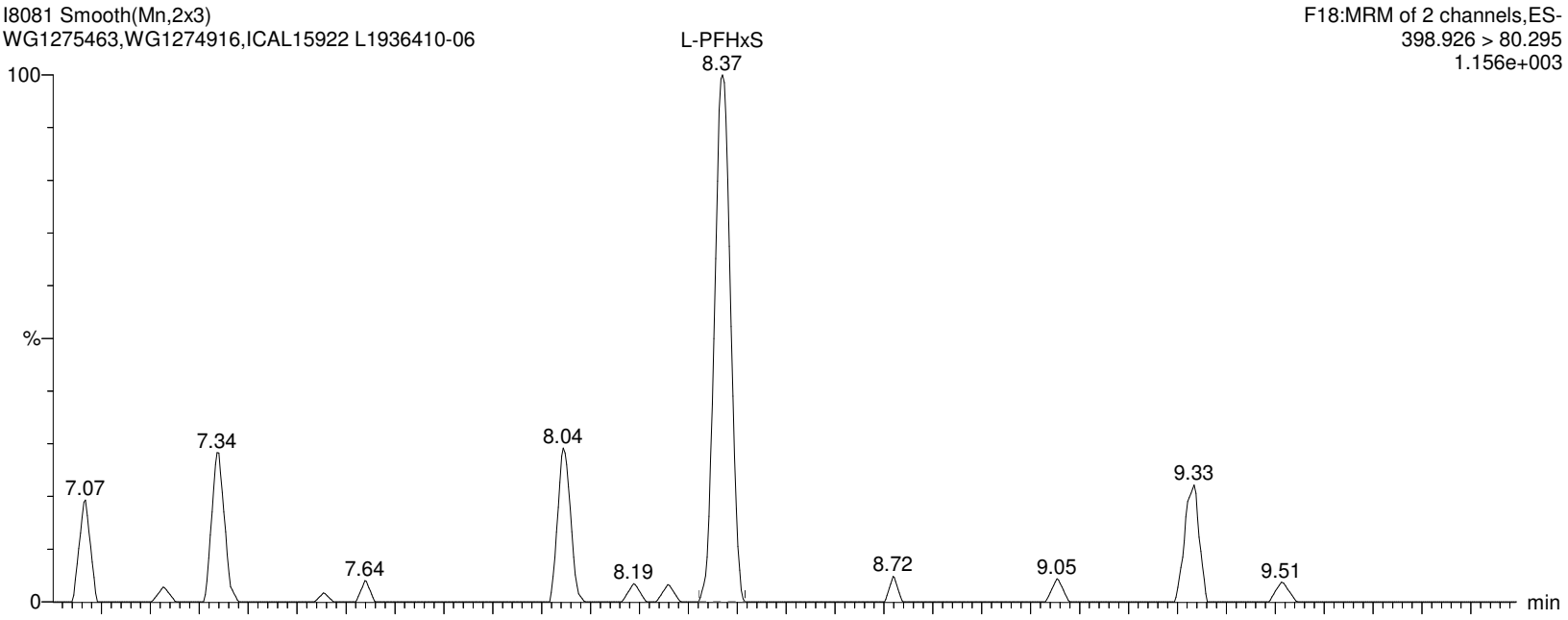


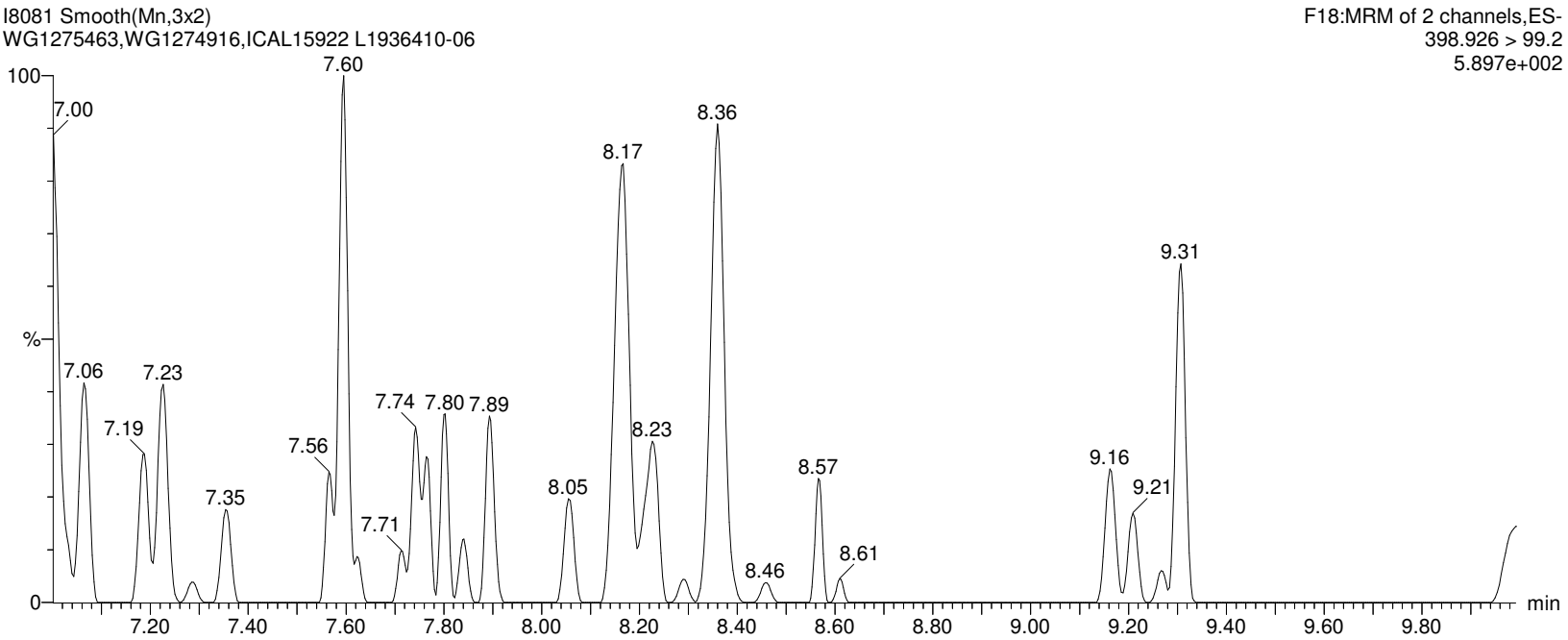
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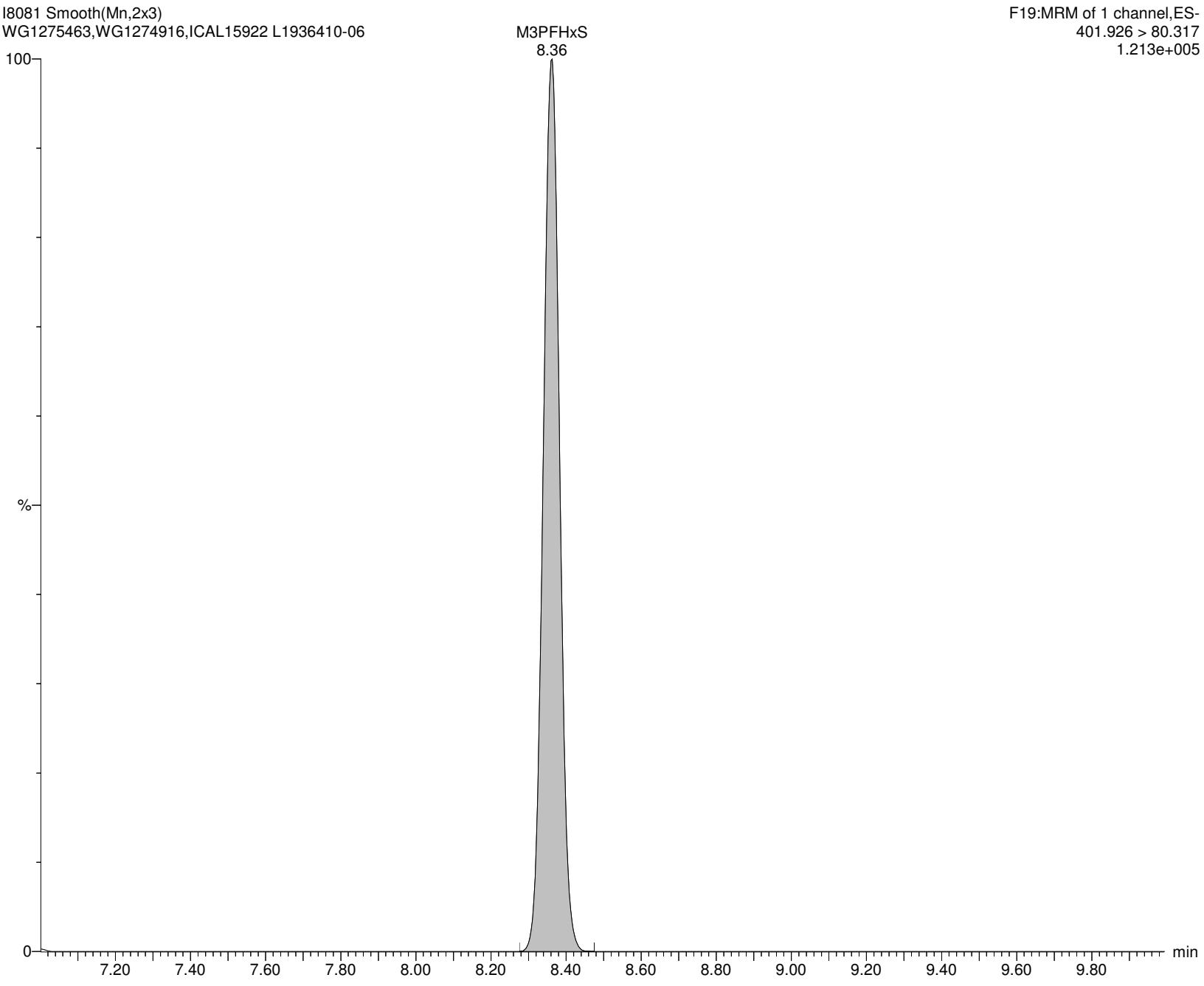


all concentration units in (ng/mL)

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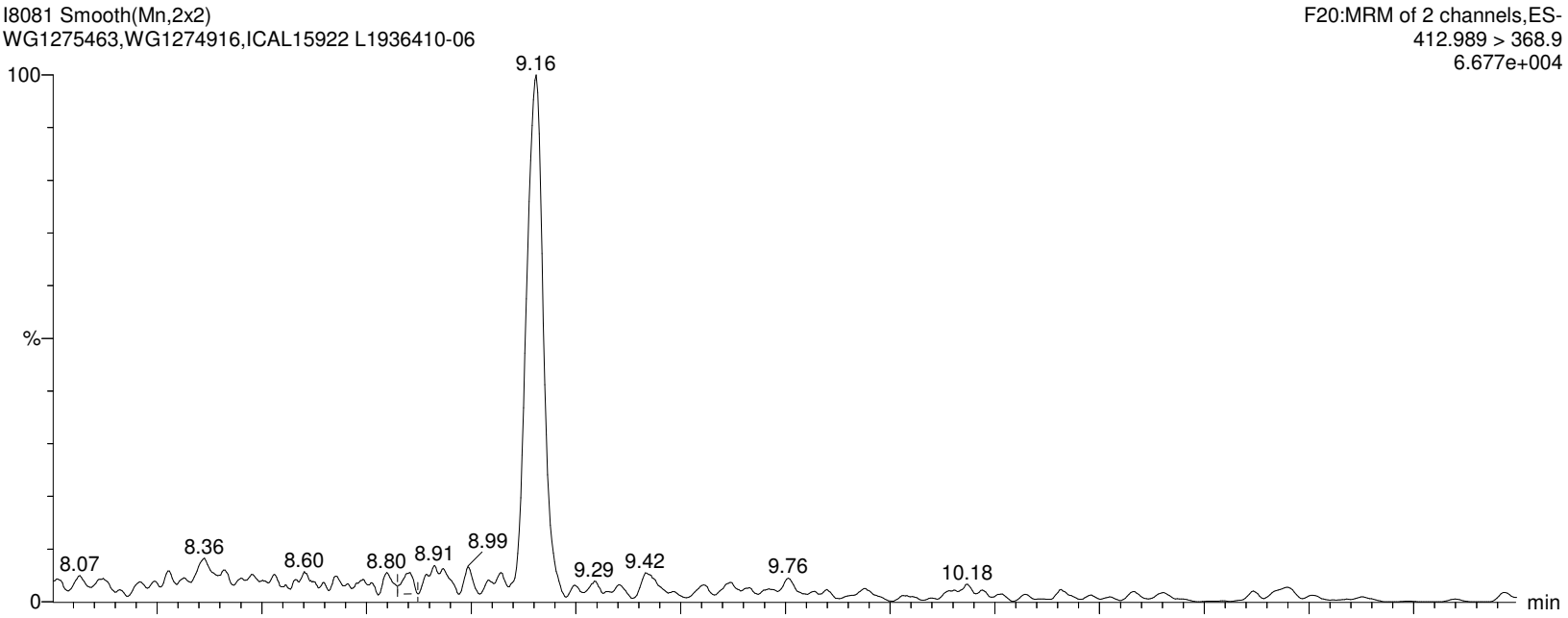


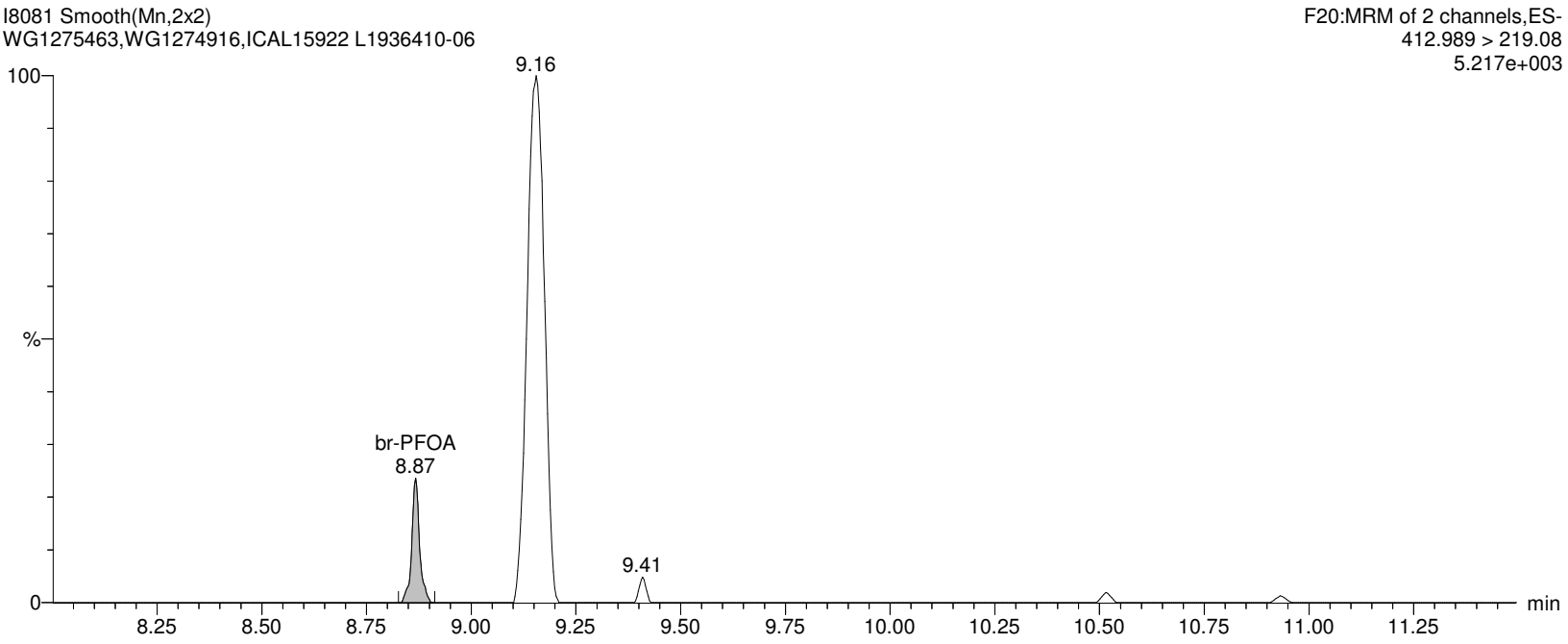
all concentration units in (ng/mL)

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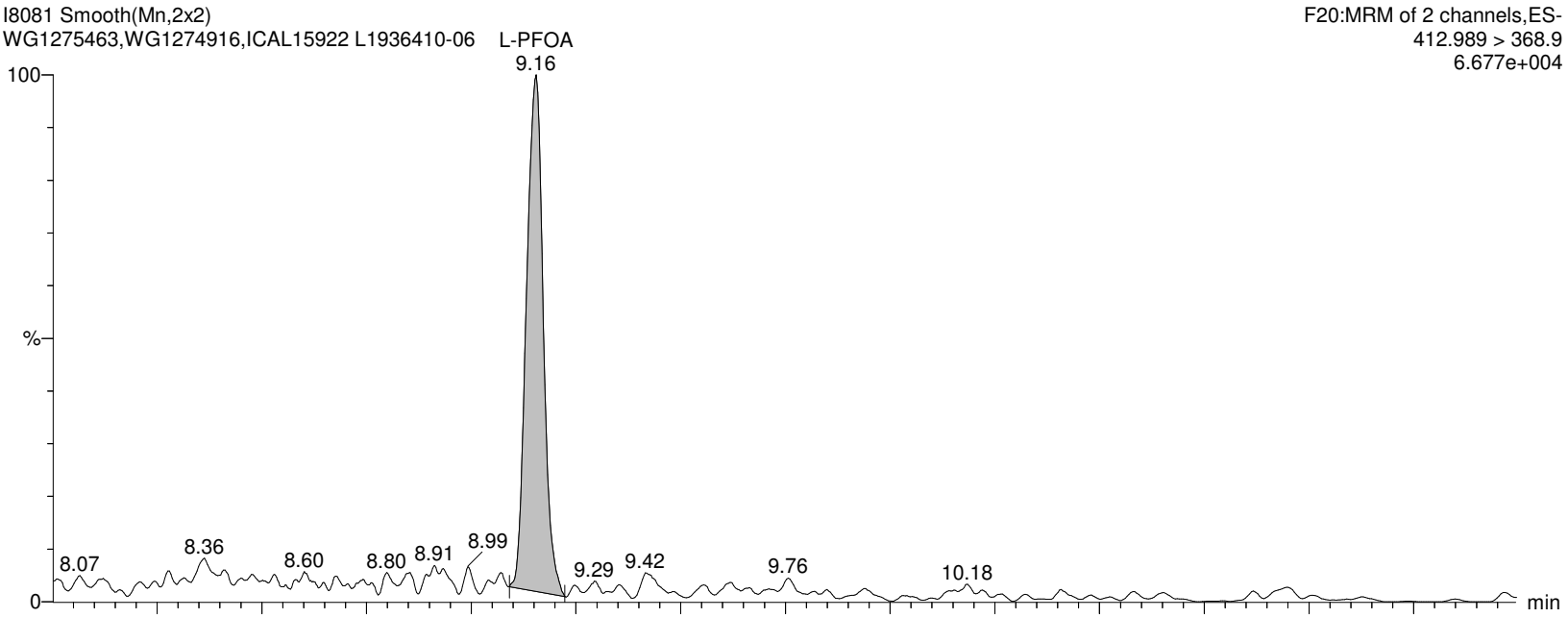


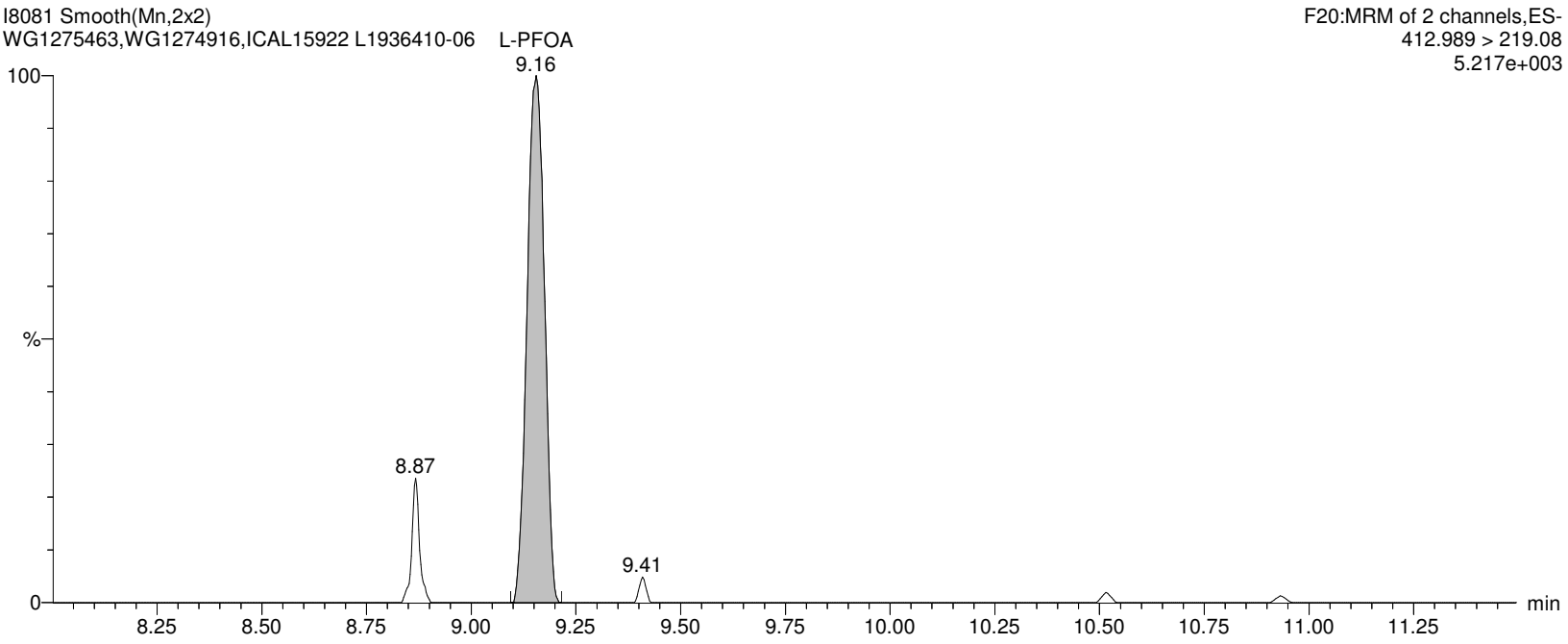
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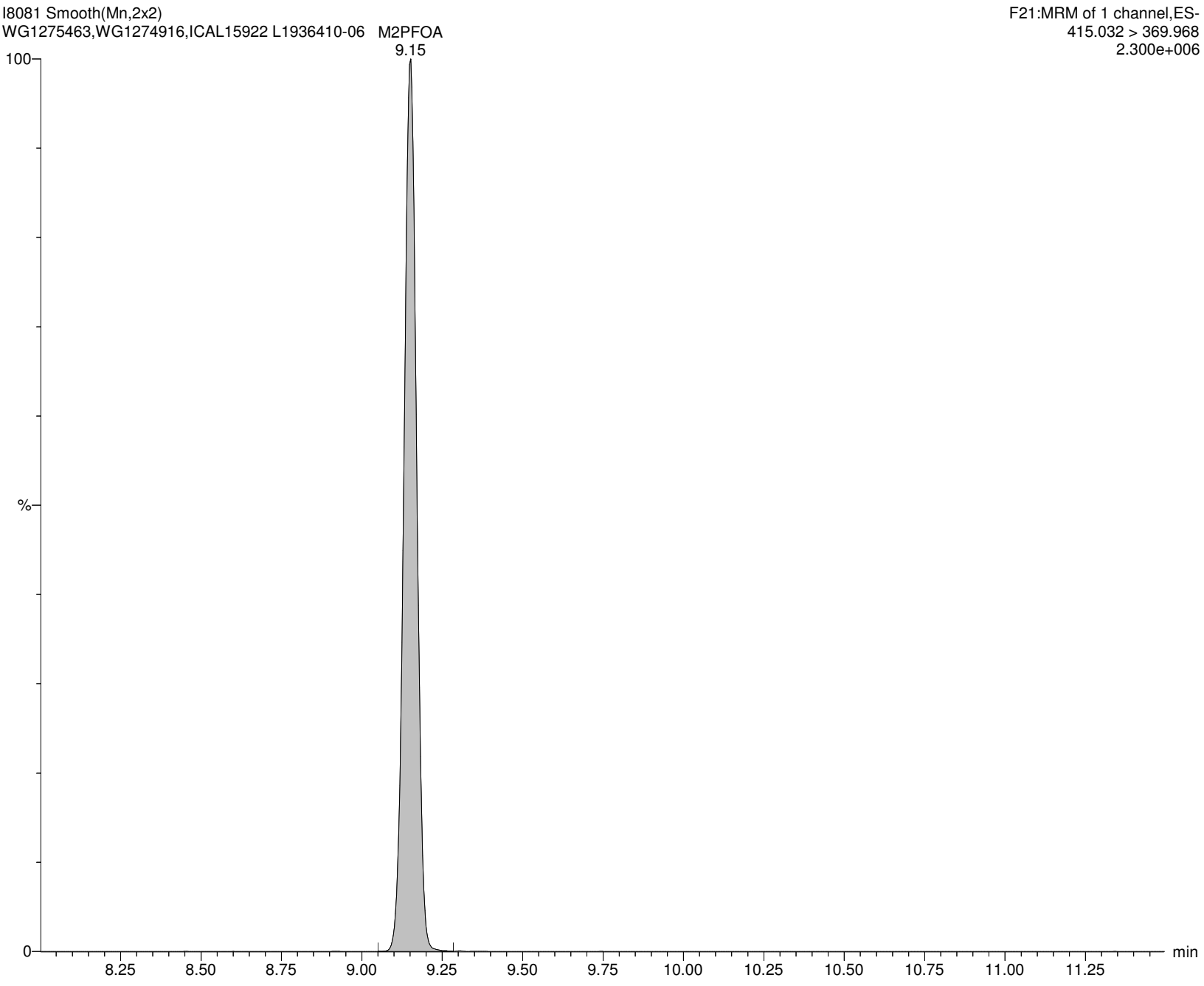


all concentration units in (ng/mL)

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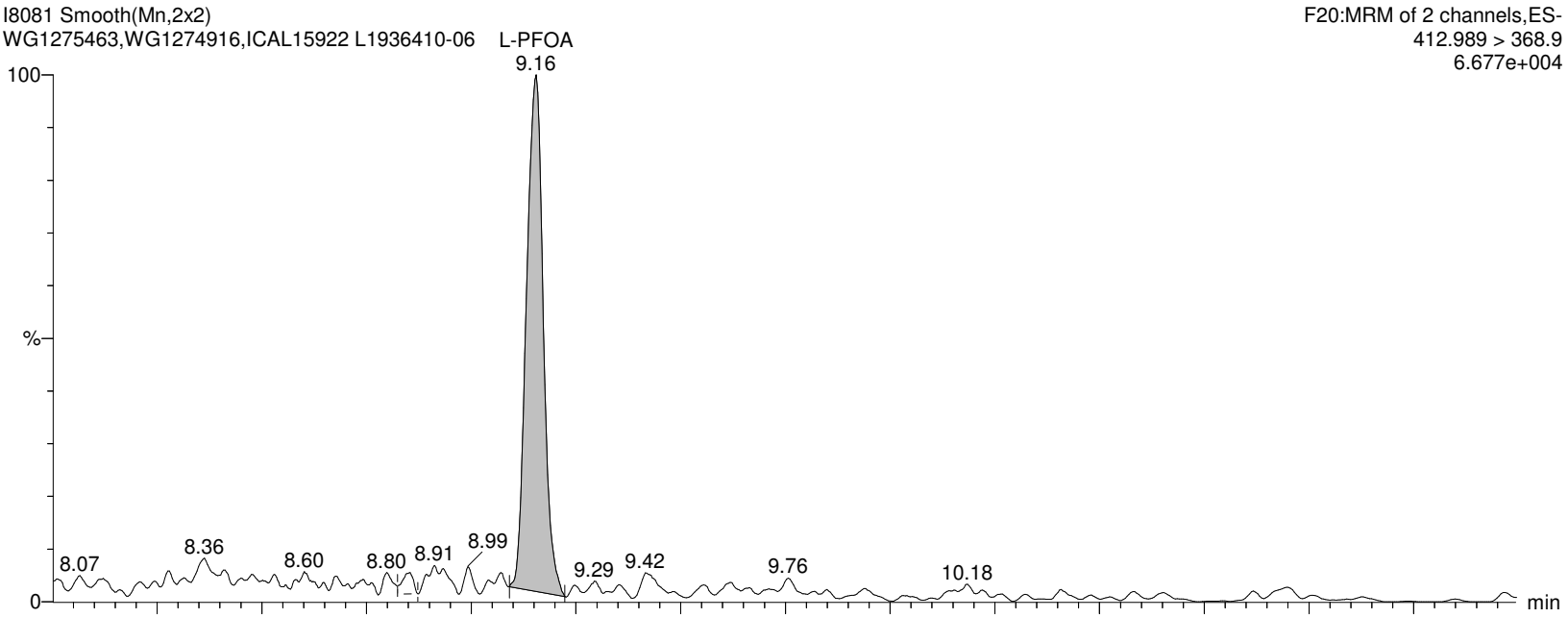


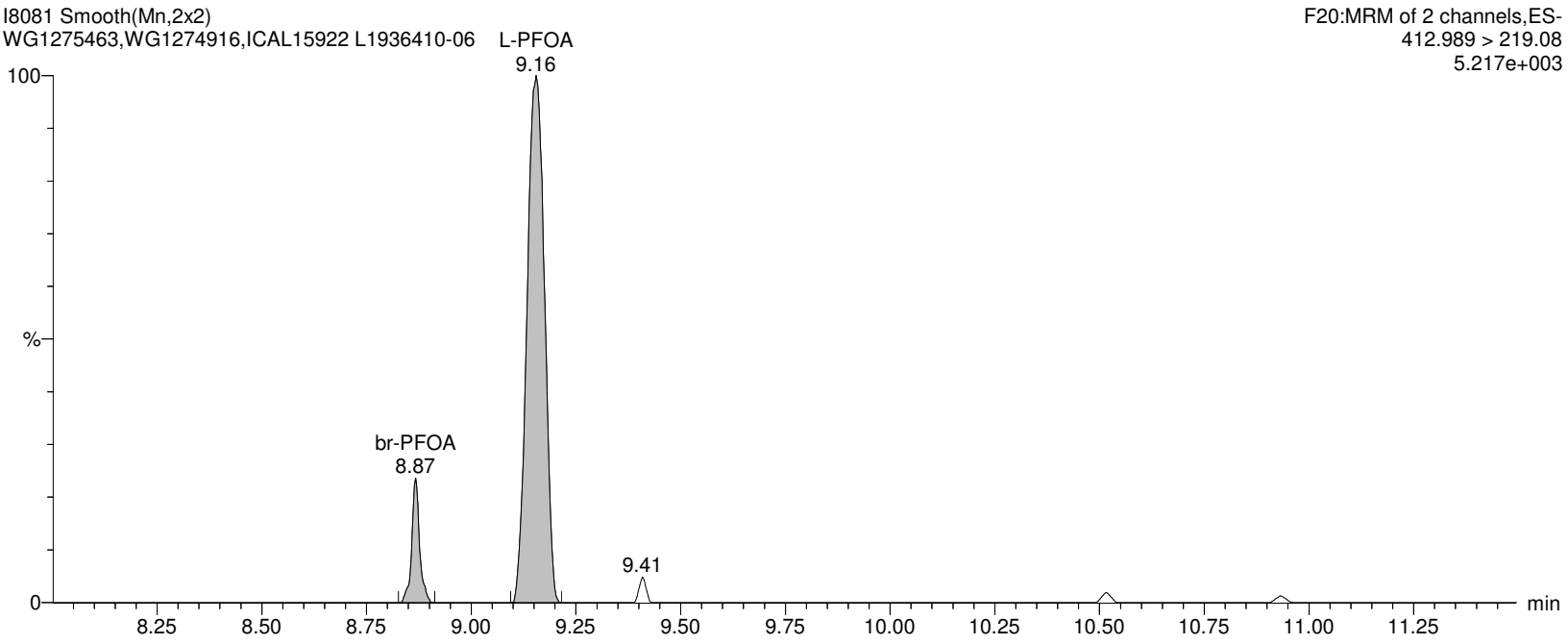
all concentration units in (ng/mL)

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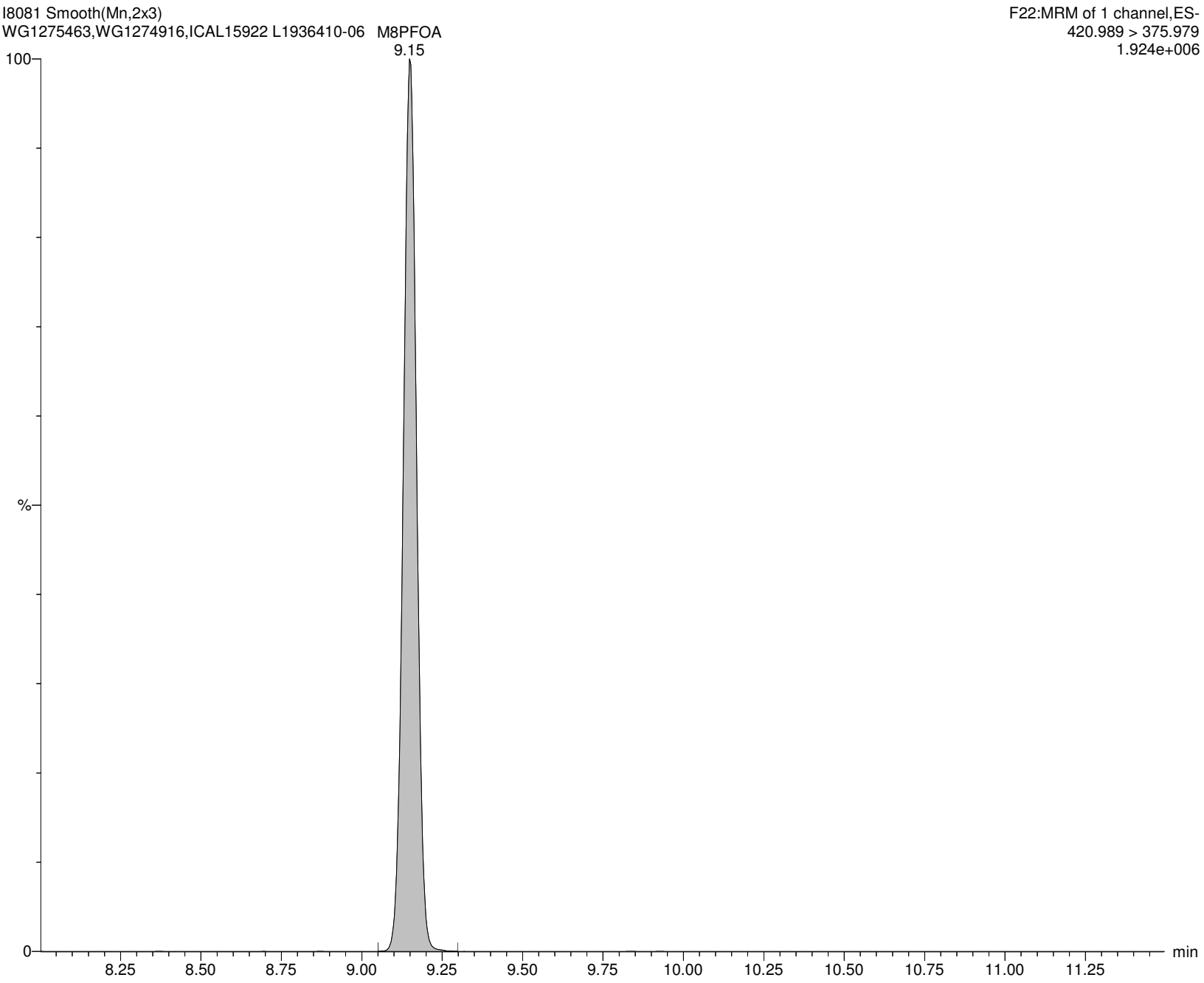


all concentration units in (ng/mL)

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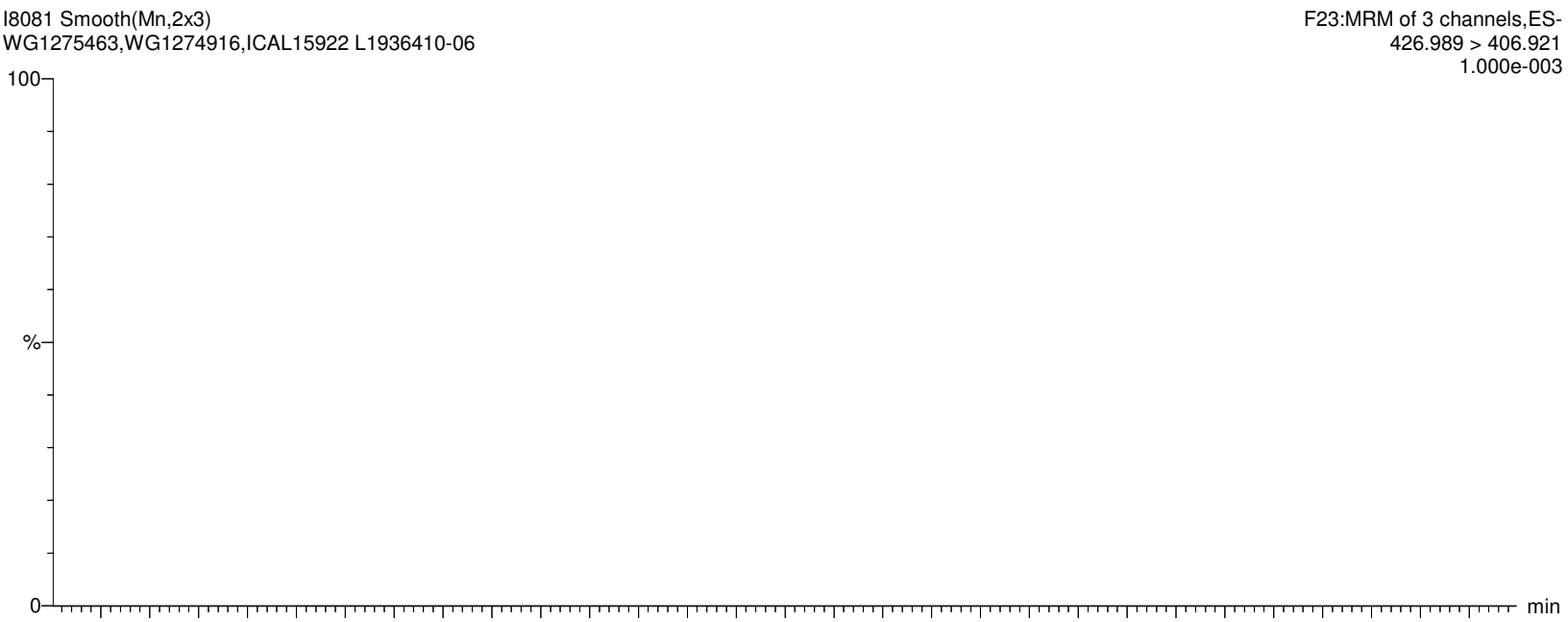


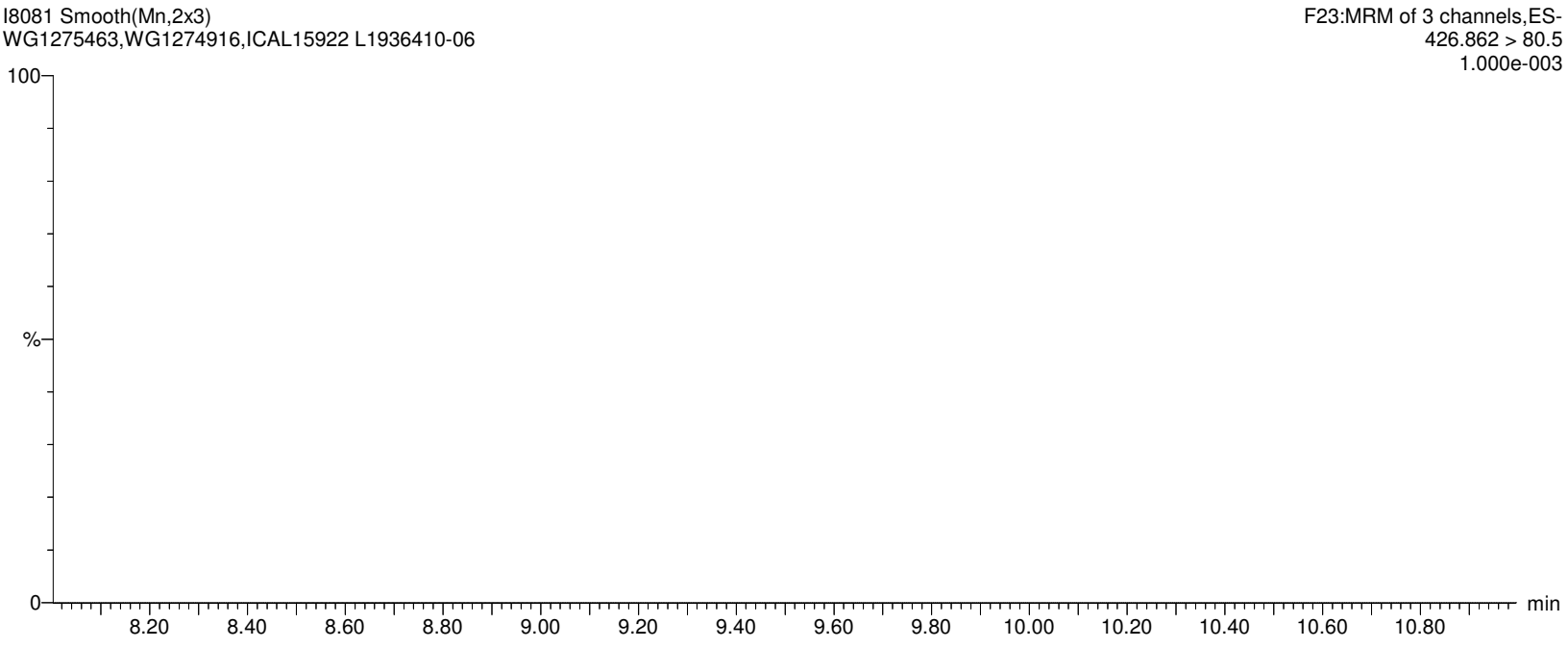
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6:2FTS



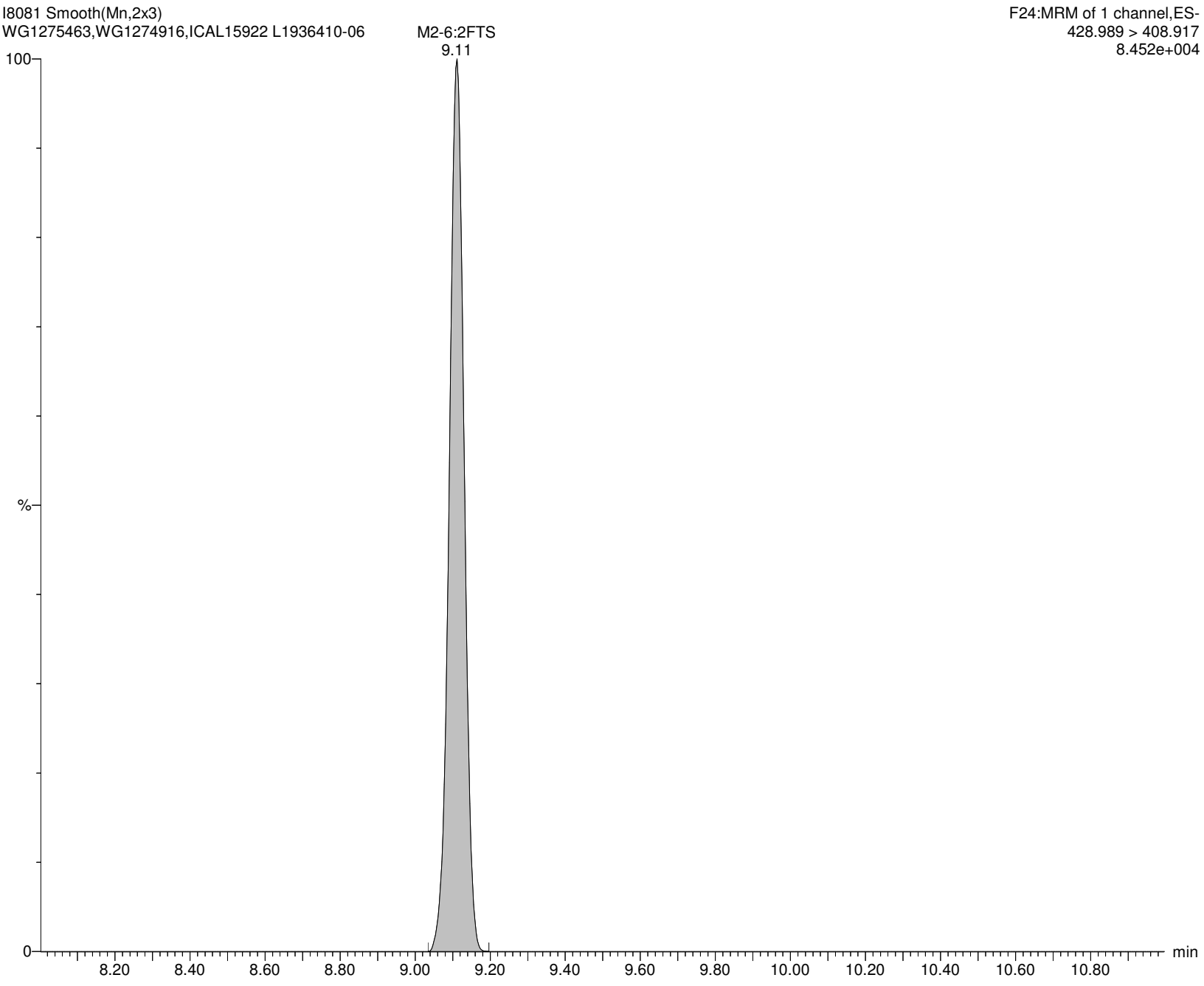


all concentration units in (ng/mL)

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M2-6:2FTS

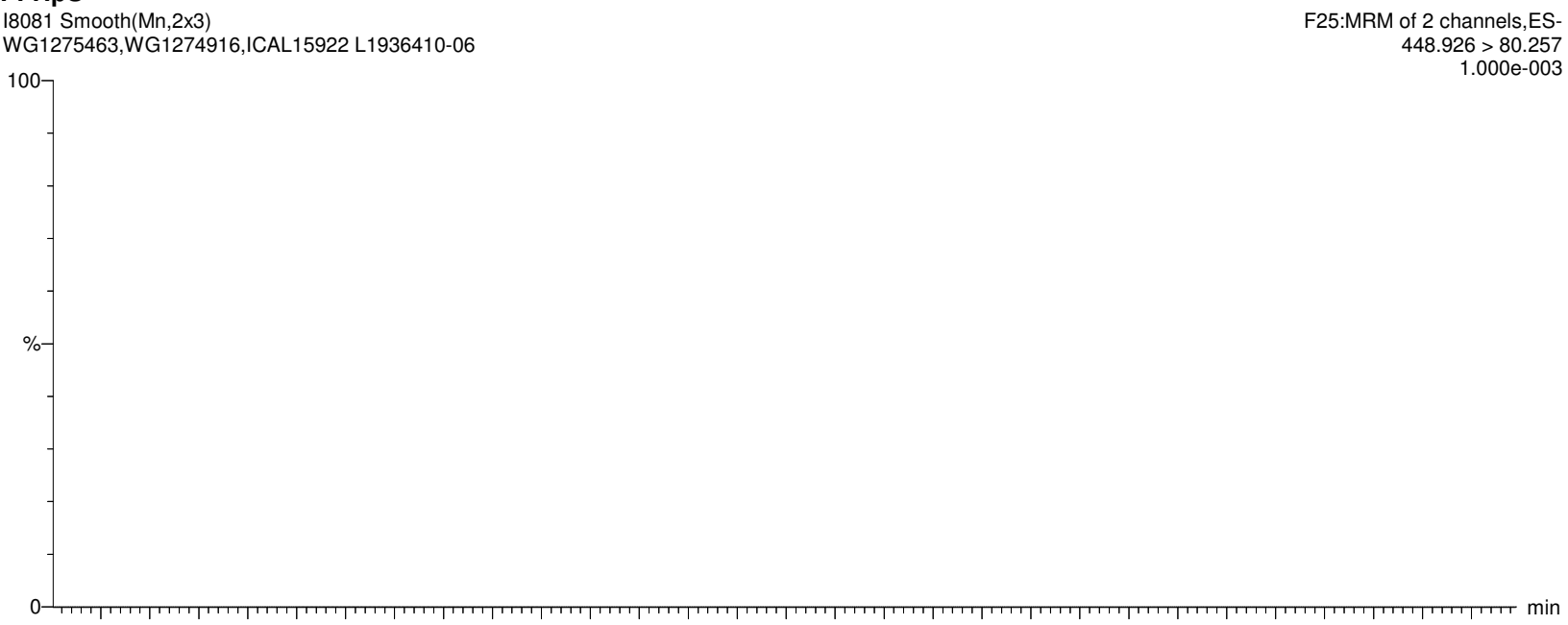


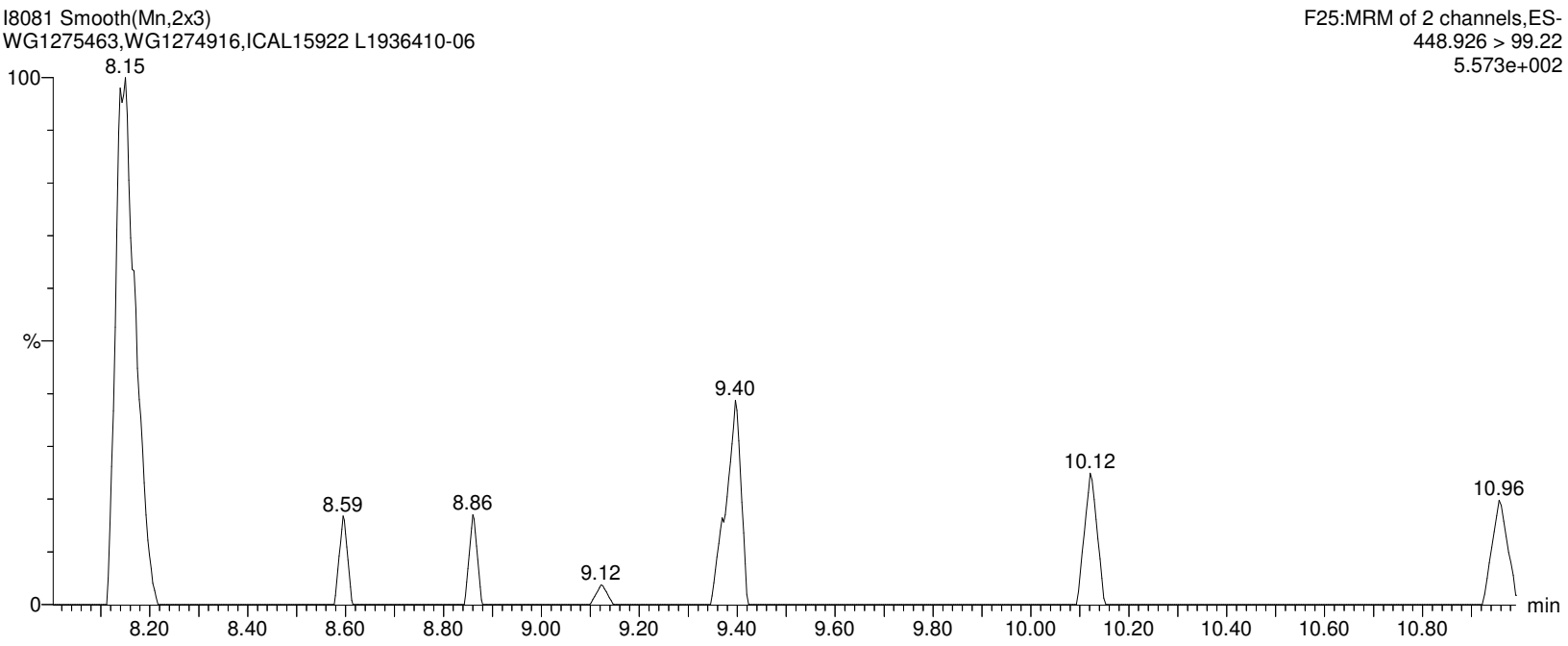
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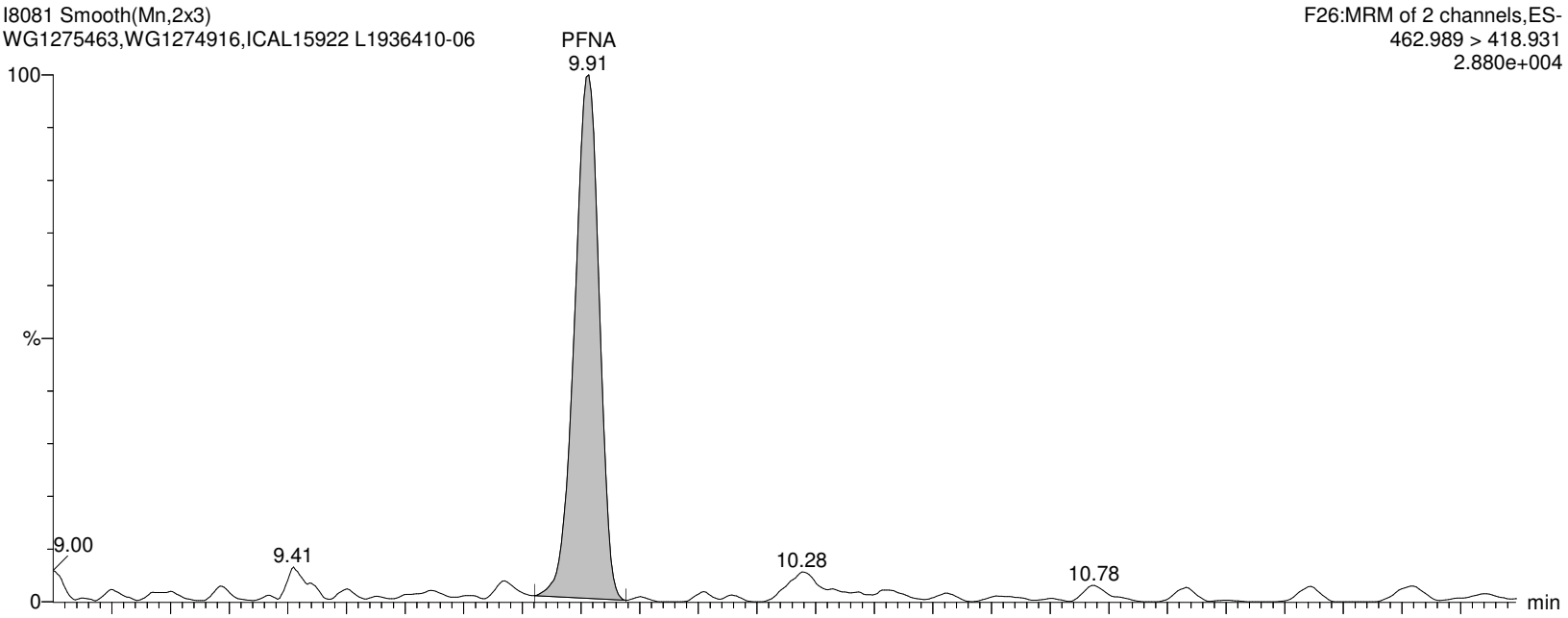


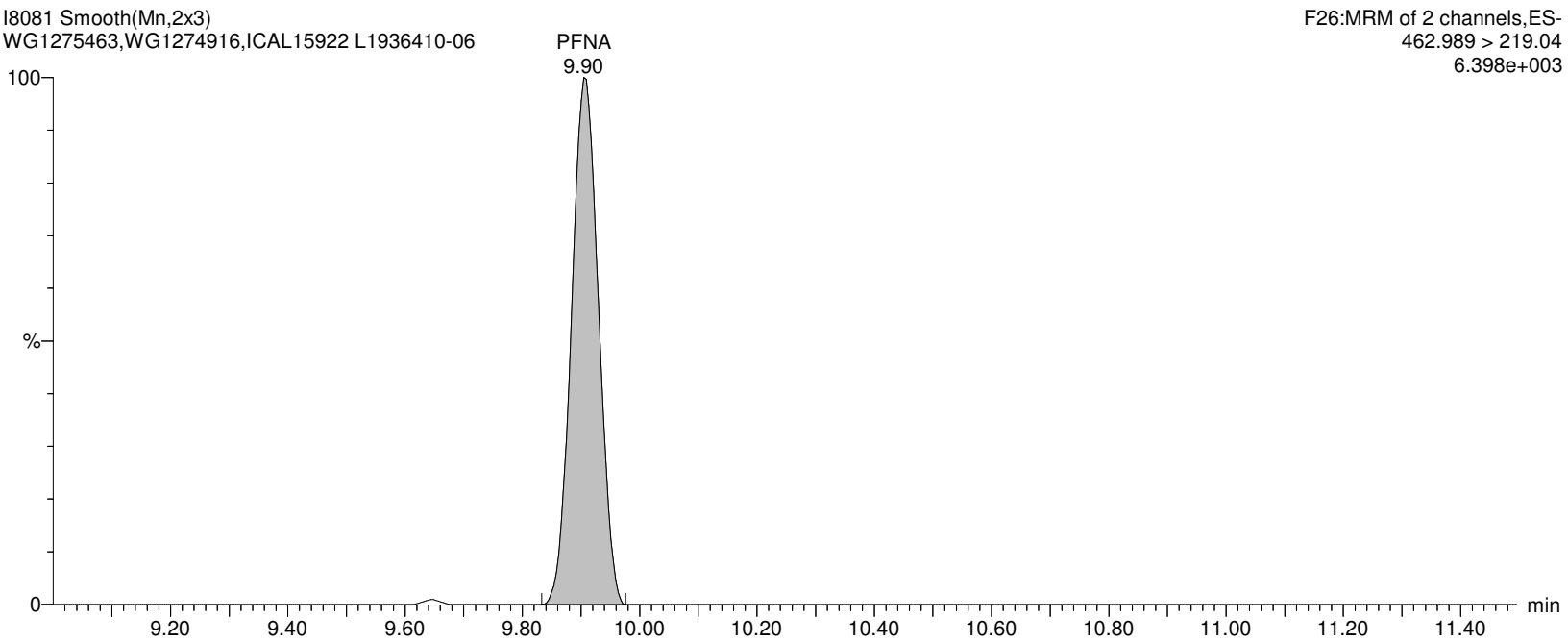
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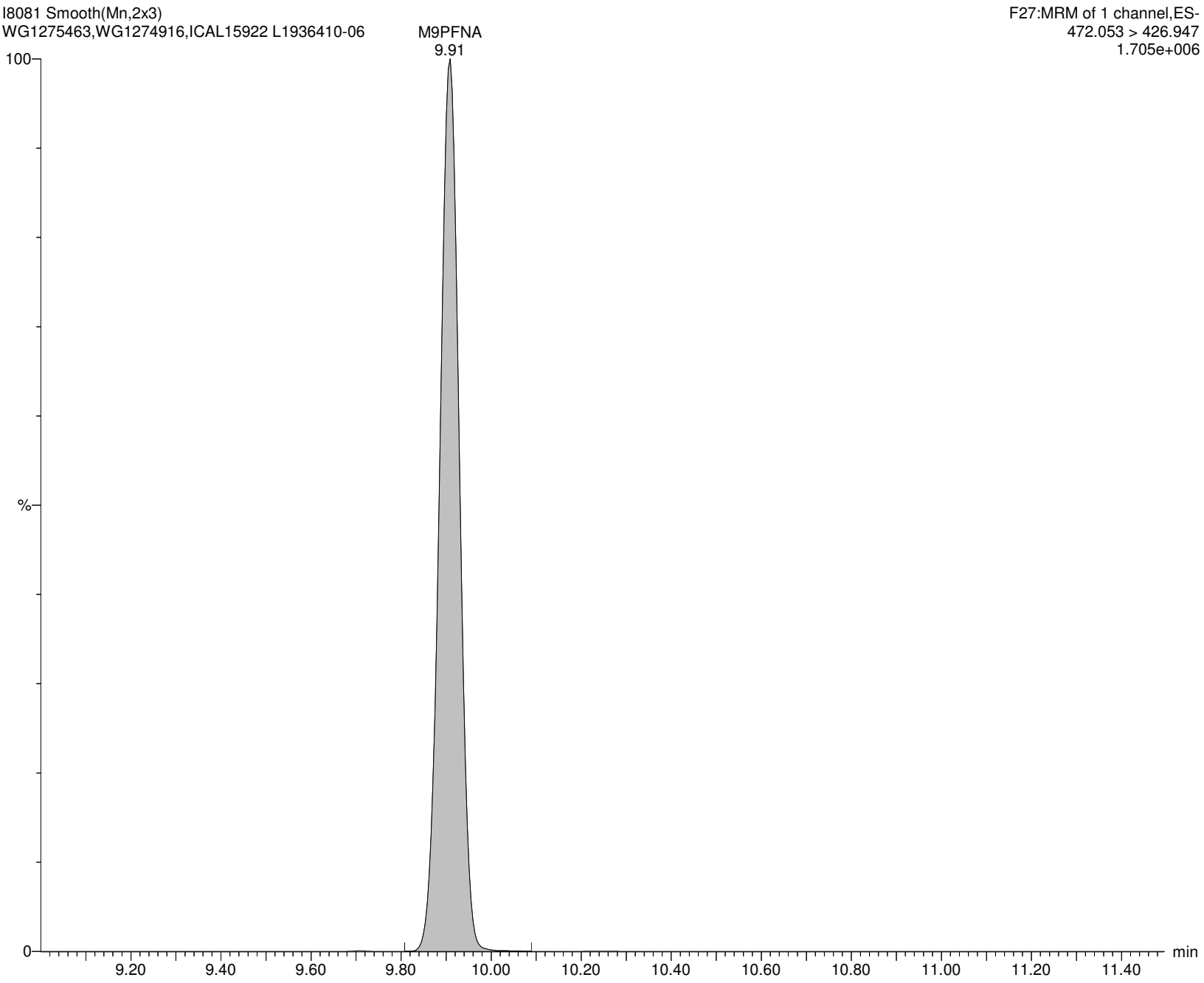


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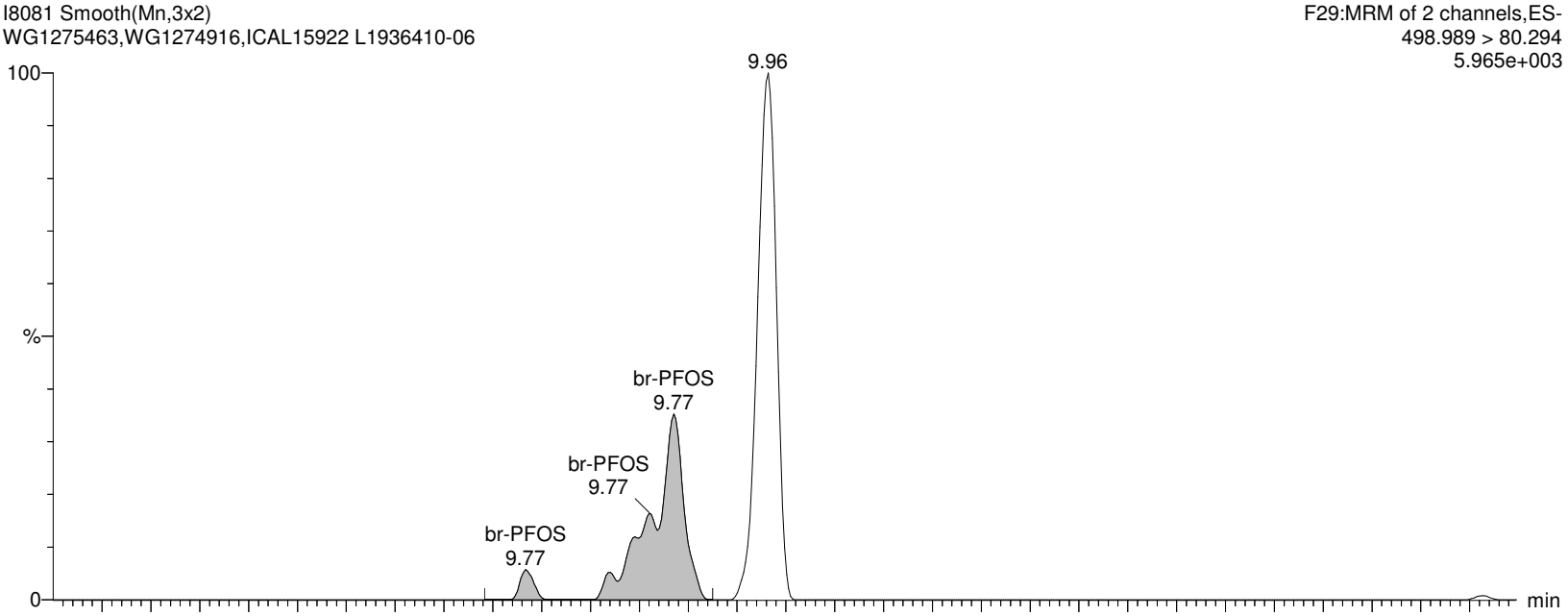


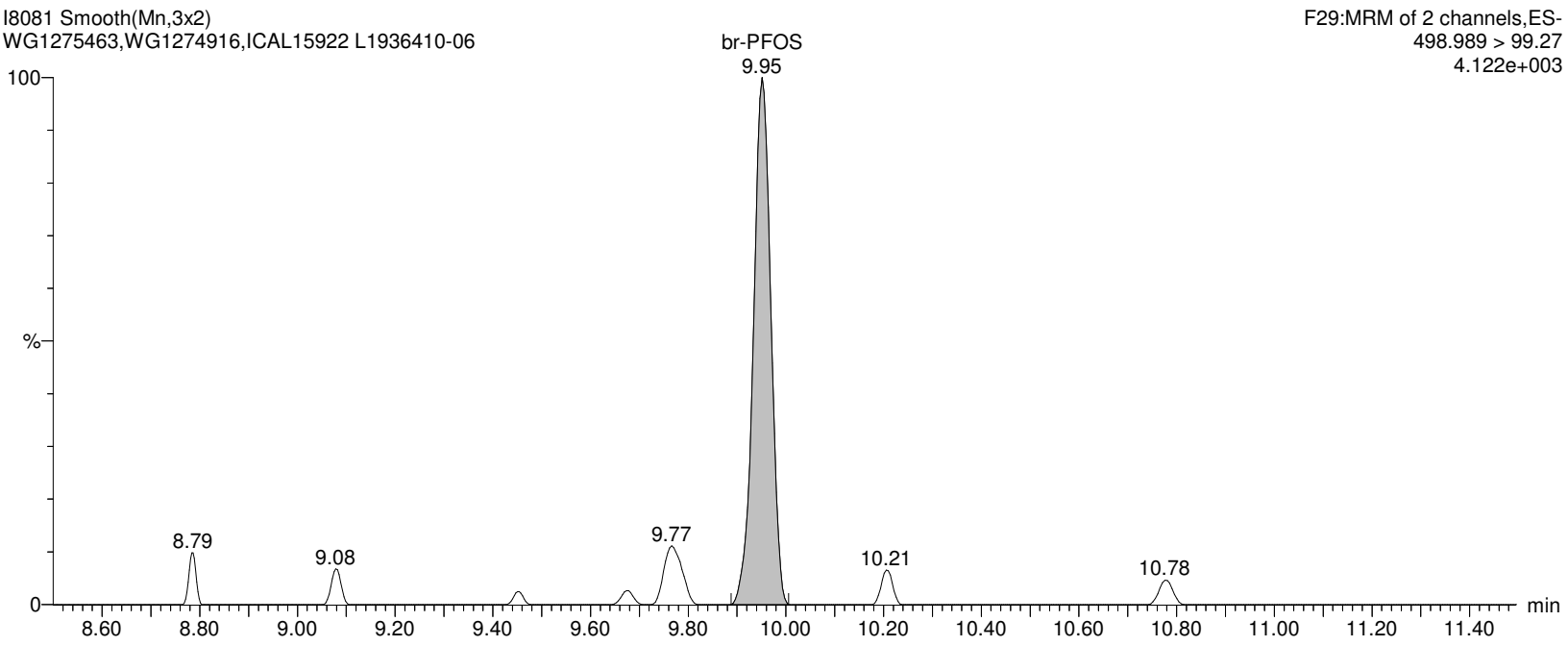
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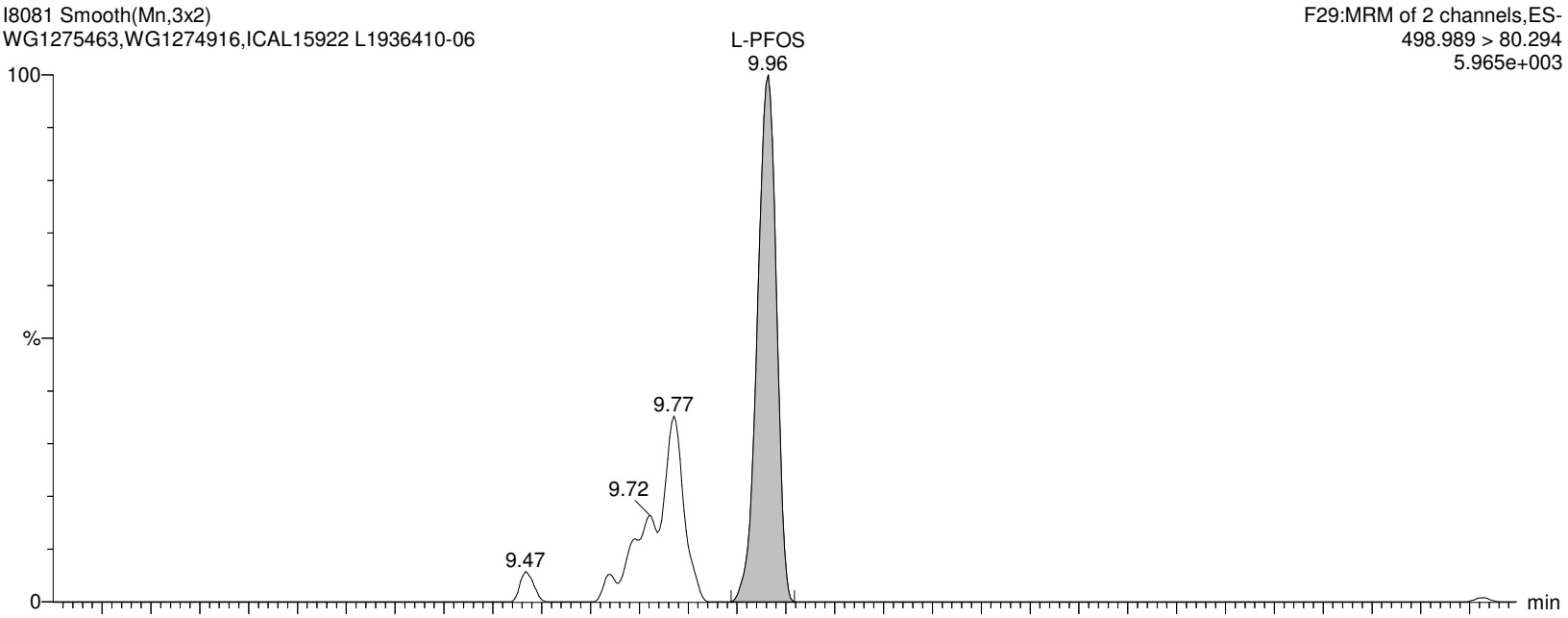


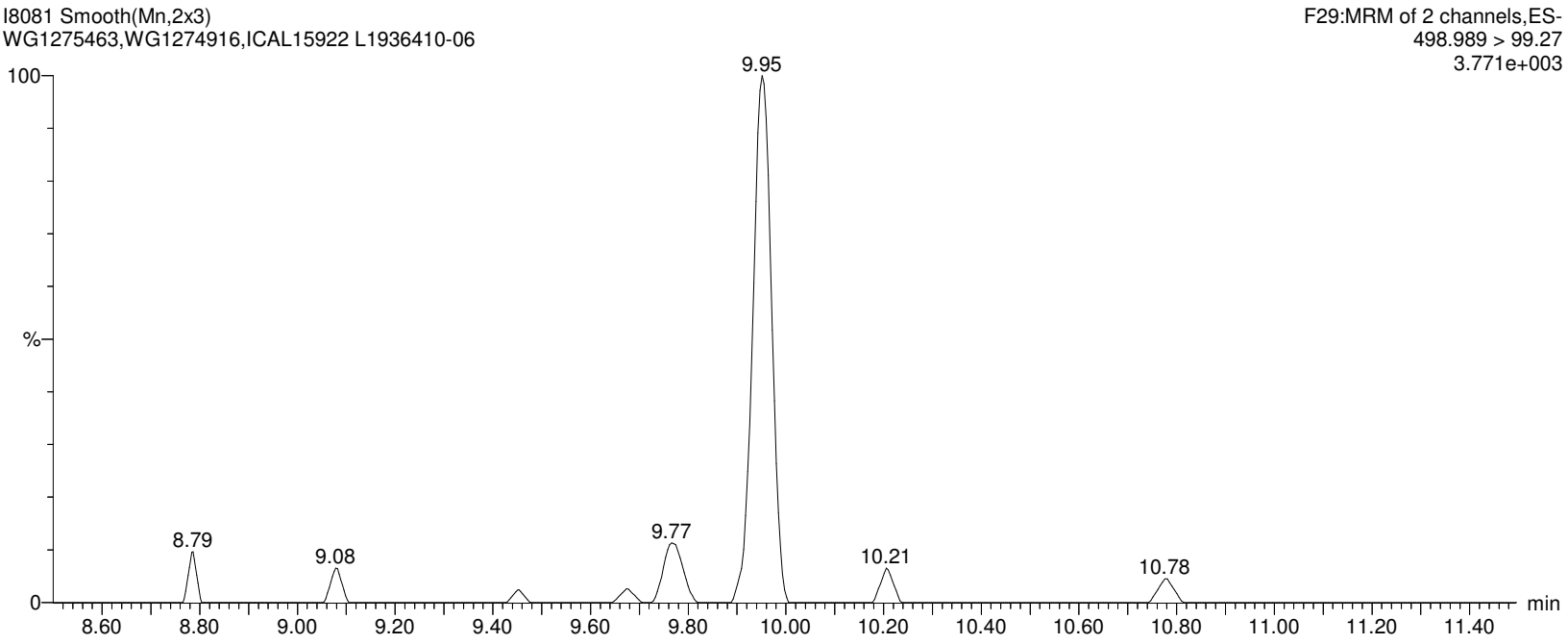
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, August 23, 2019 09:51:17 Eastern Daylight Time
Printed: Friday, August 23, 2019 09:51:37 Eastern Daylight Time

Name: I8081
ID: L1936410-06
Date: 22-Aug-2019
Time: 16:04:23
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:D,3
Instrument: XEVO-TQSmicro#QEB0050
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L-PFOS



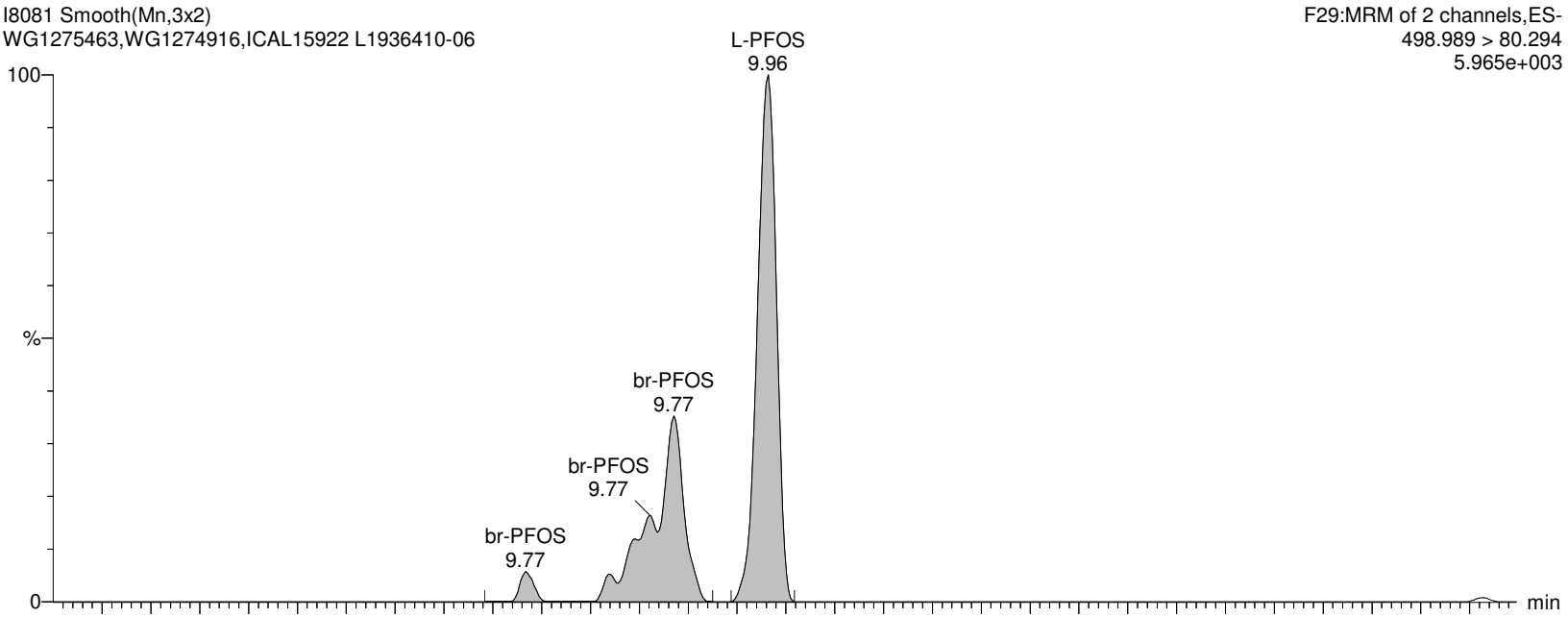


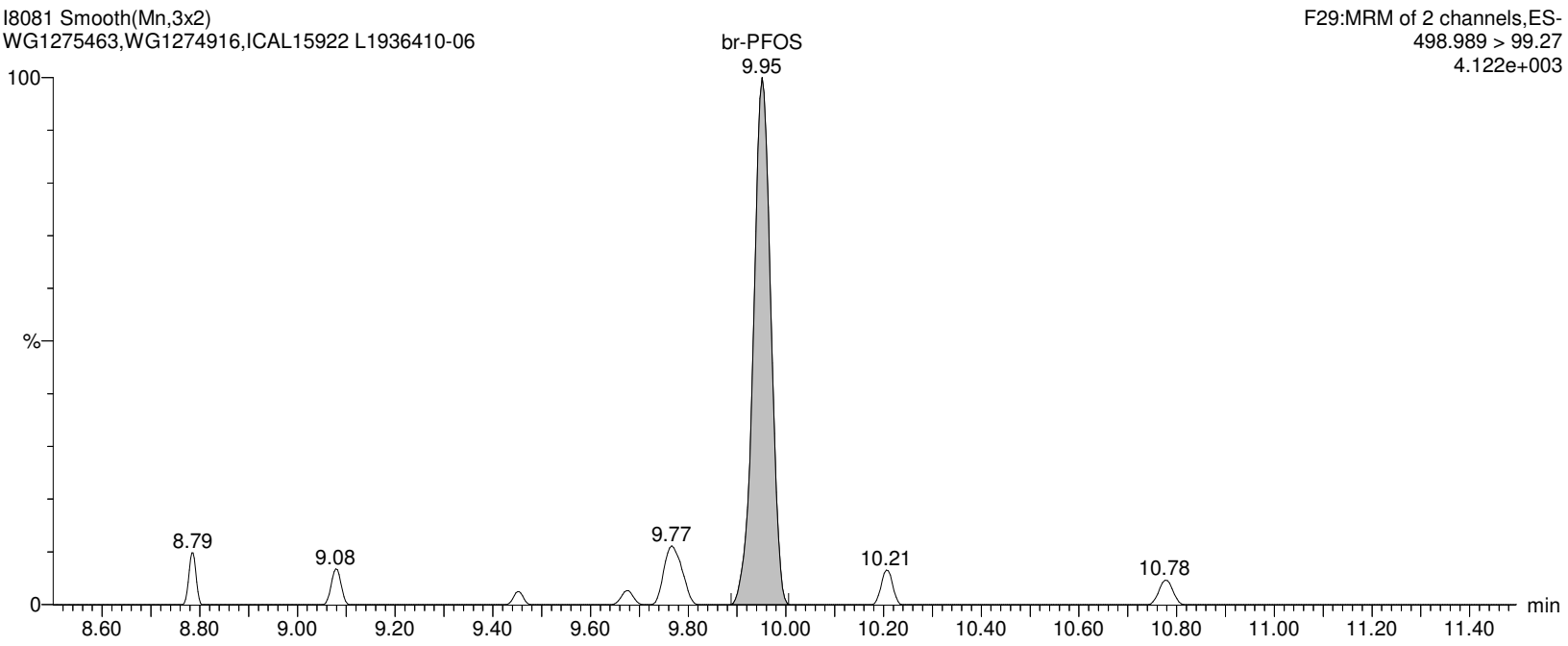
all concentration units in (ng/mL)

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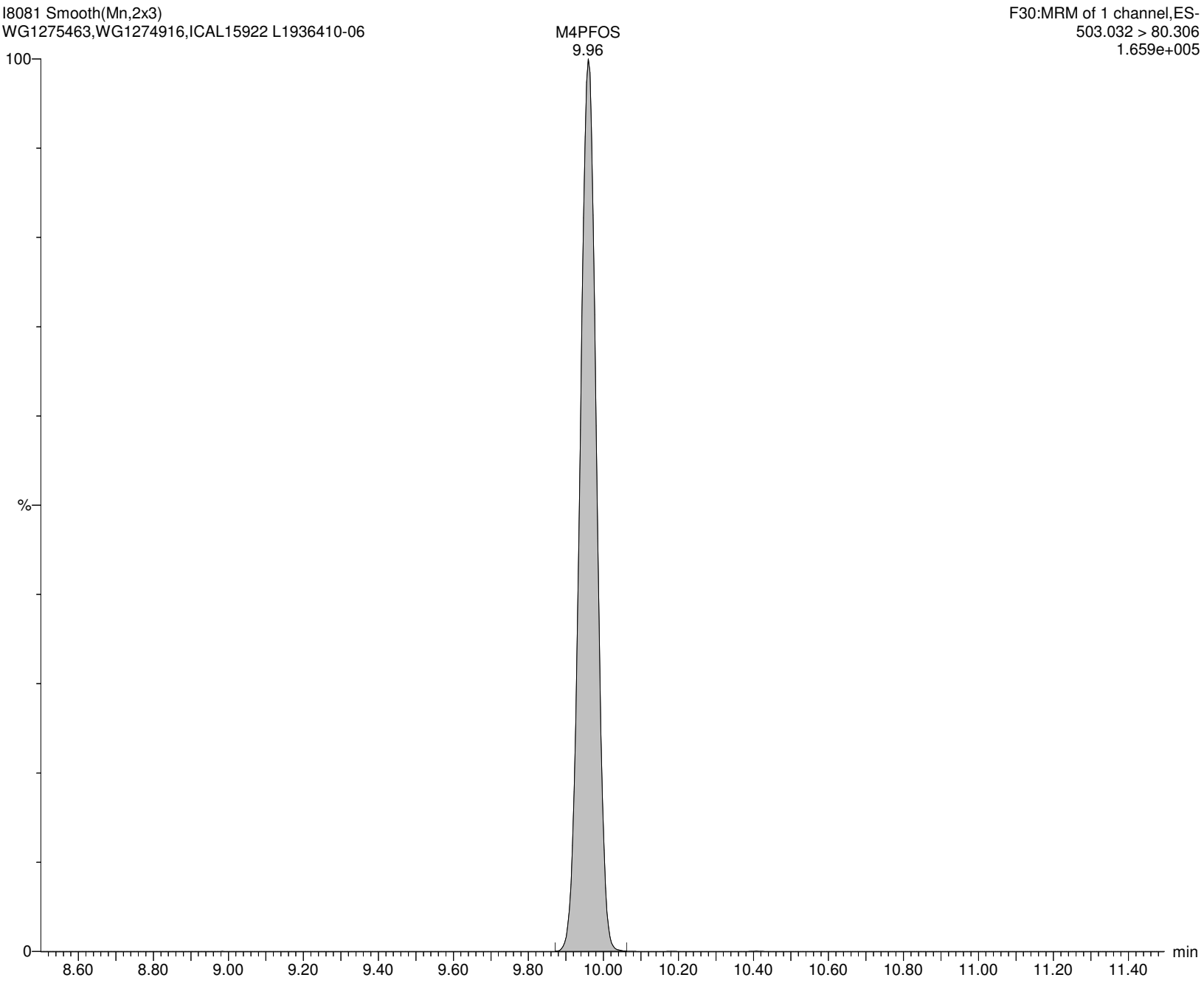


all concentration units in (ng/mL)

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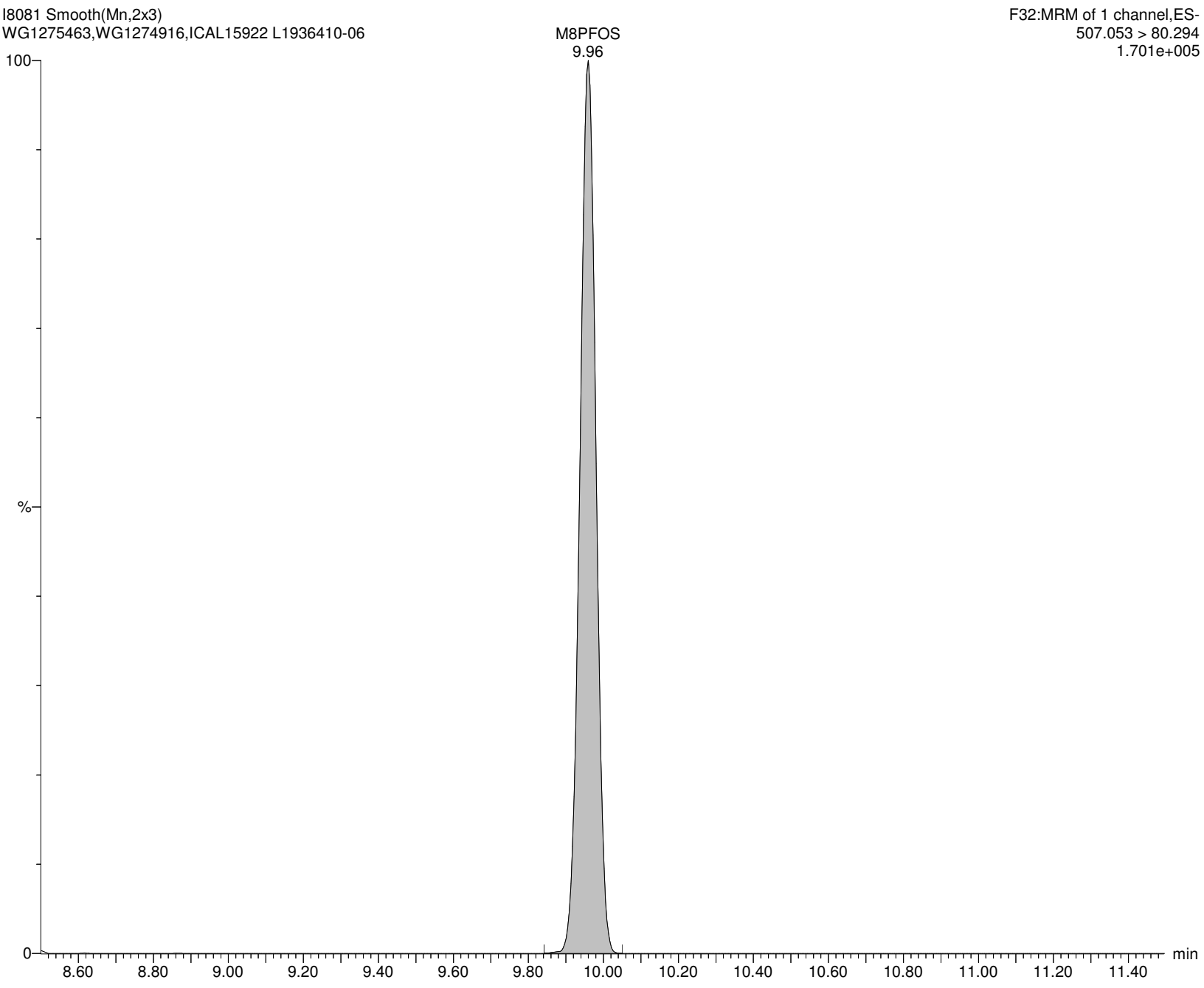


all concentration units in (ng/mL)

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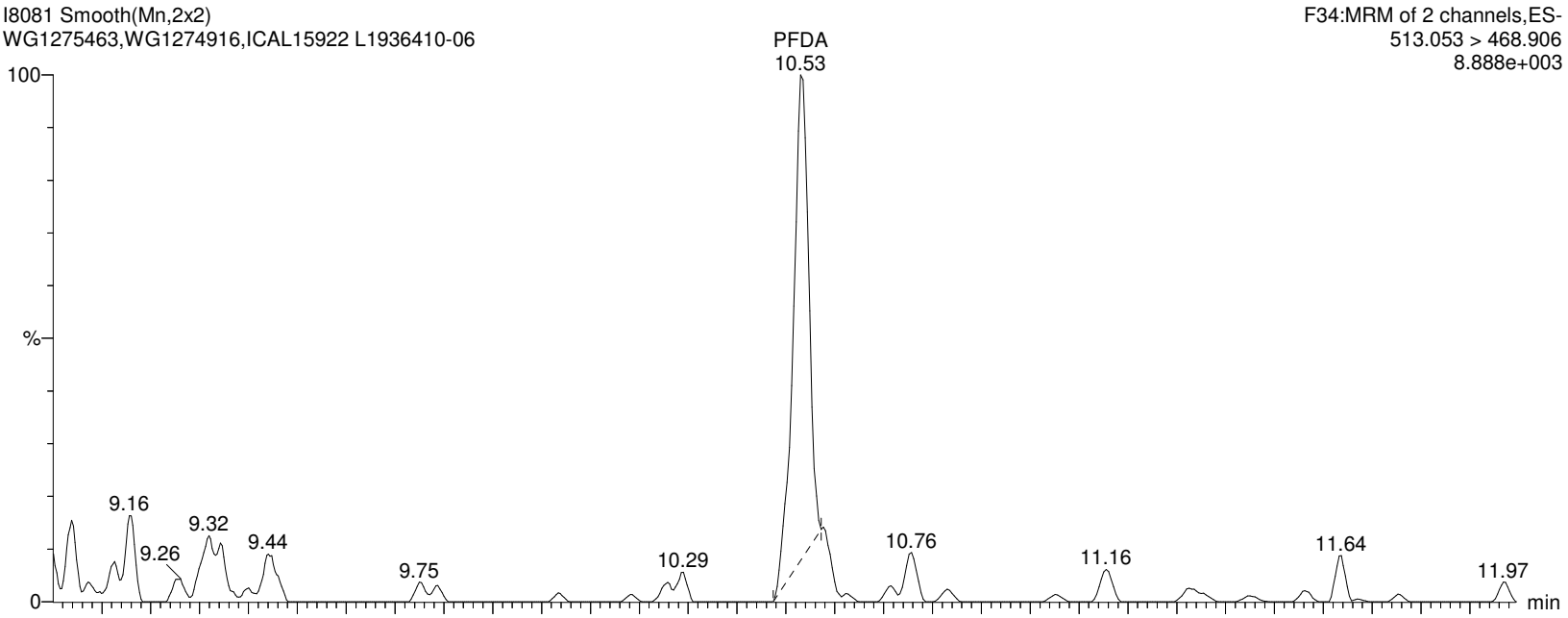


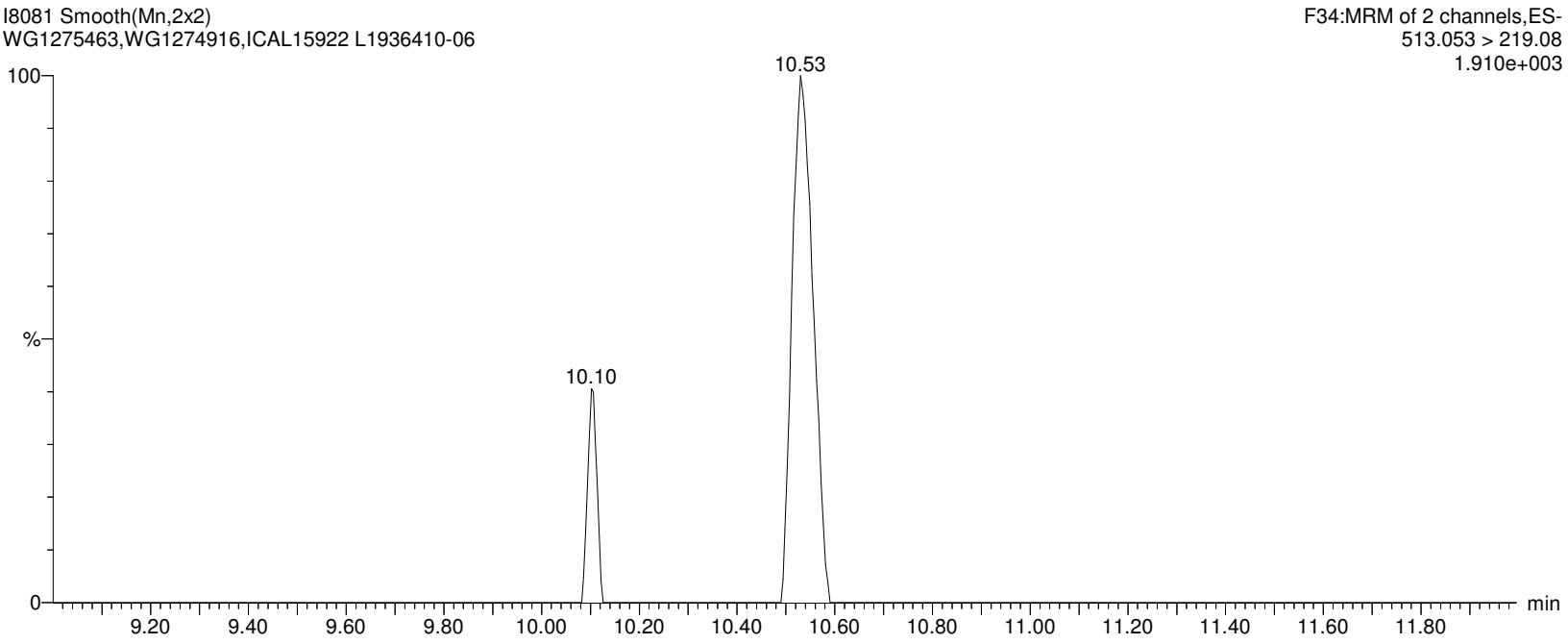
all concentration units in (ng/mL)

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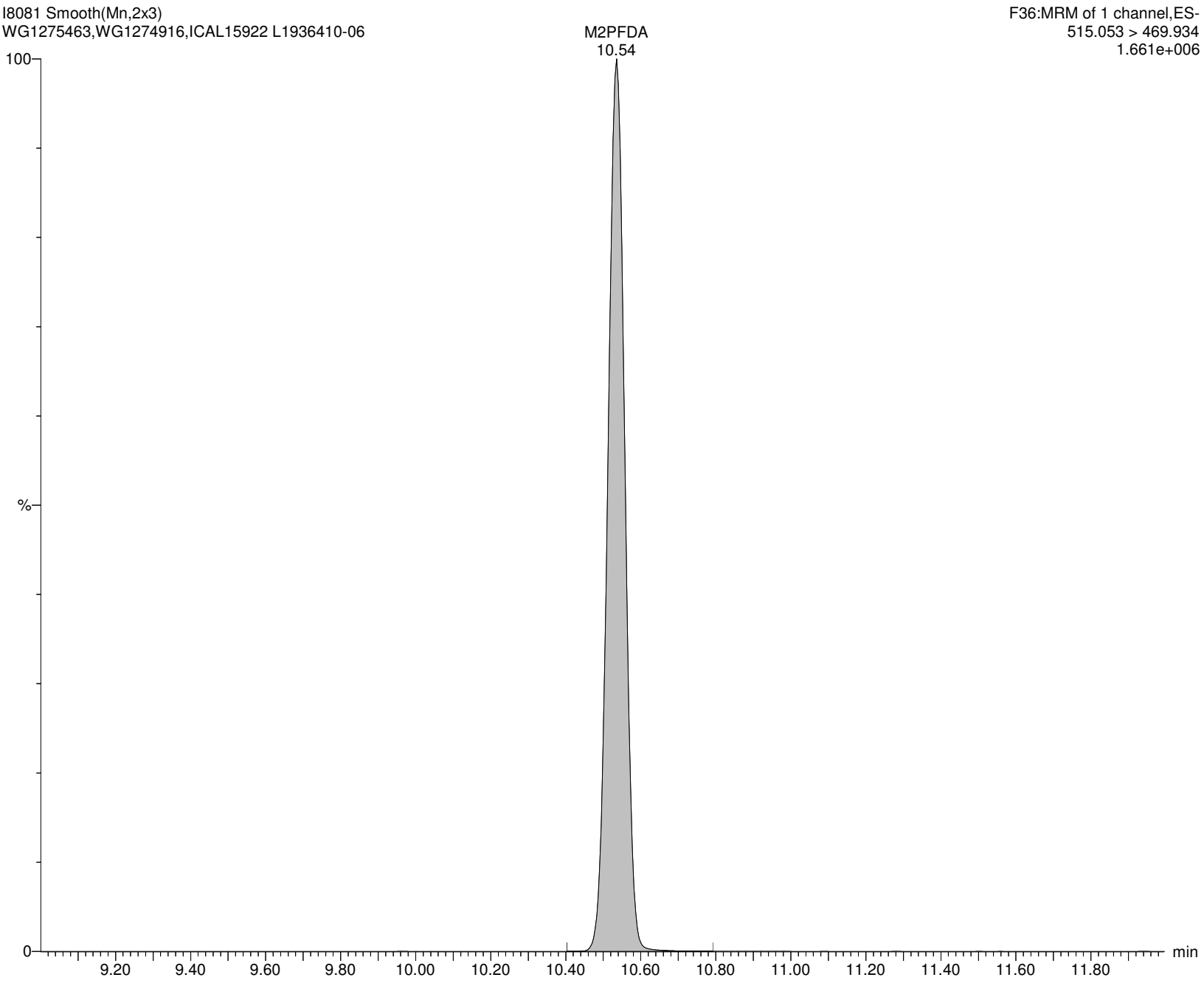


all concentration units in (ng/mL)

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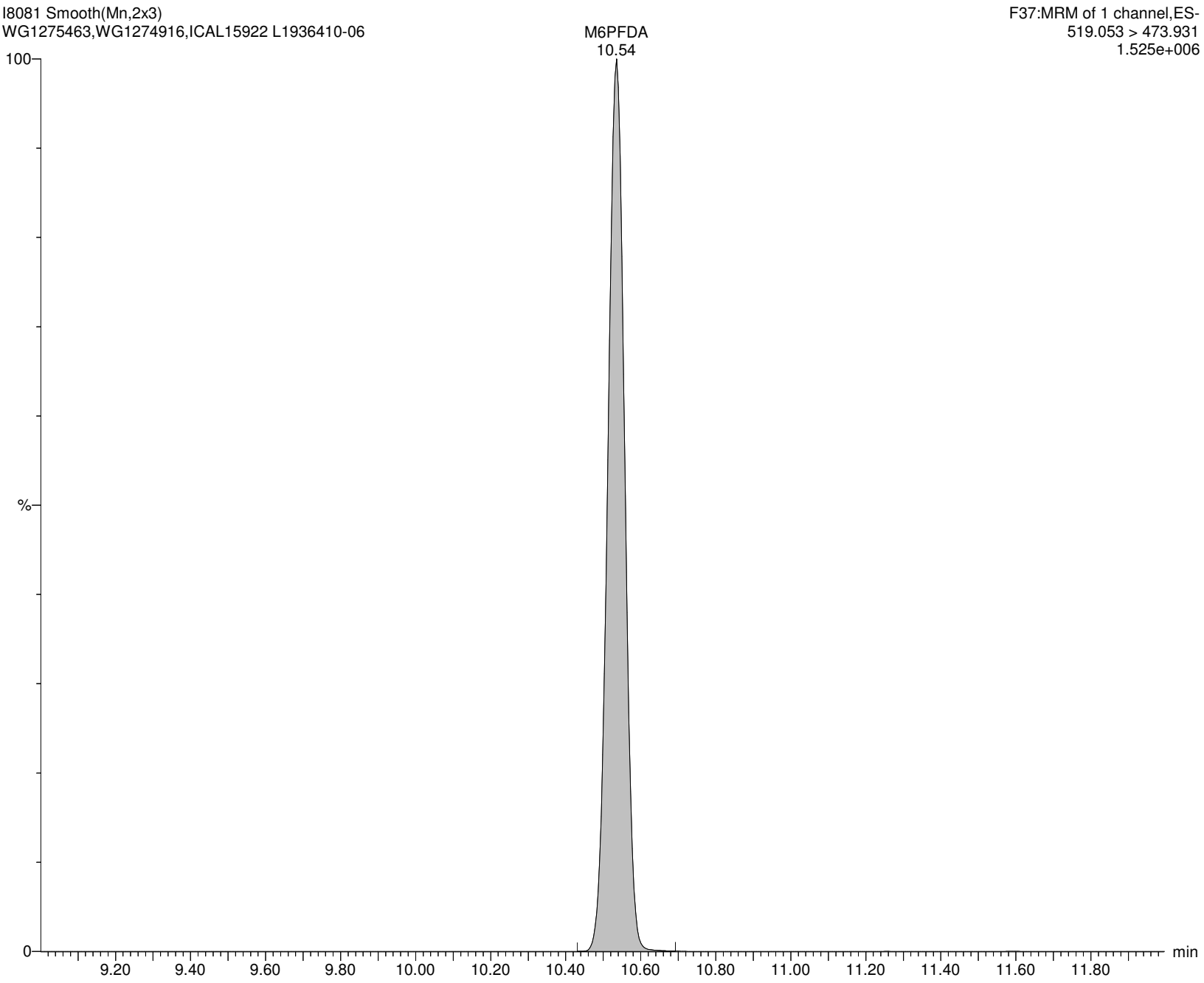


all concentration units in (ng/mL)

Alpha Analytical Inc.
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M6PFDA



all concentration units in (ng/mL)

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MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

-

8:2FTS

I8081 Smooth(Mn,2x2)
WG1275463,WG1274916,ICAL15922 L1936410-06

F39:MRM of 2 channels,ES-
526.926 > 506.818
1.000e-003

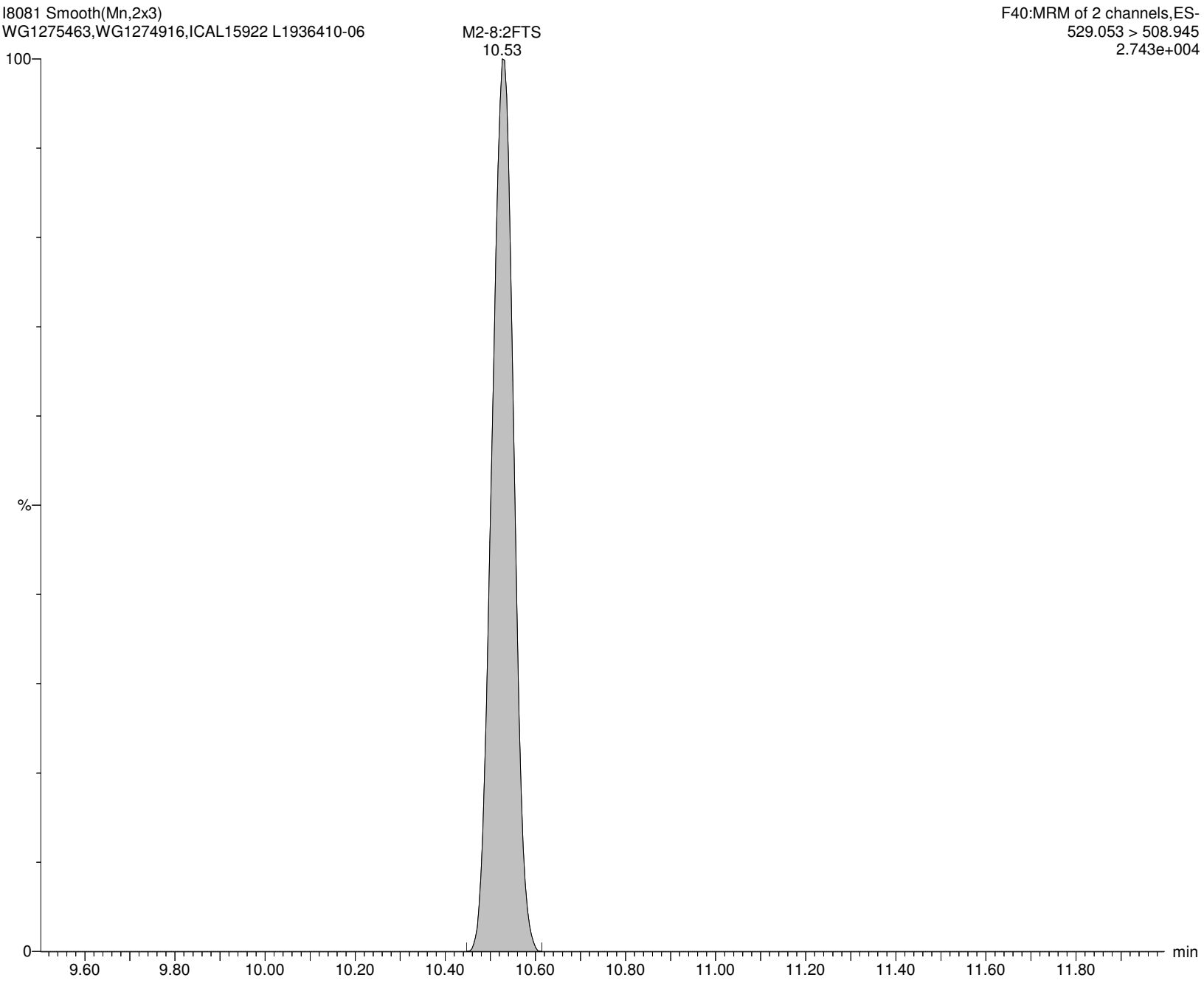


all concentration units in (ng/mL)

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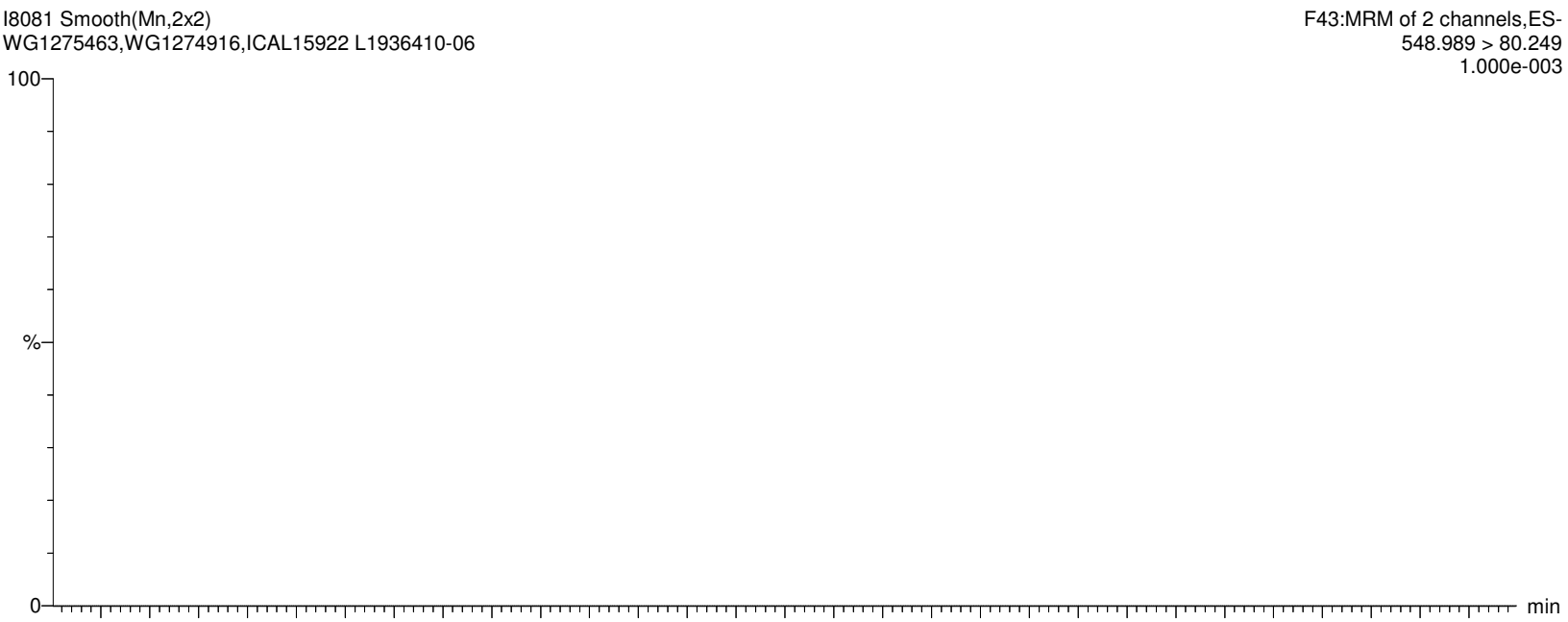


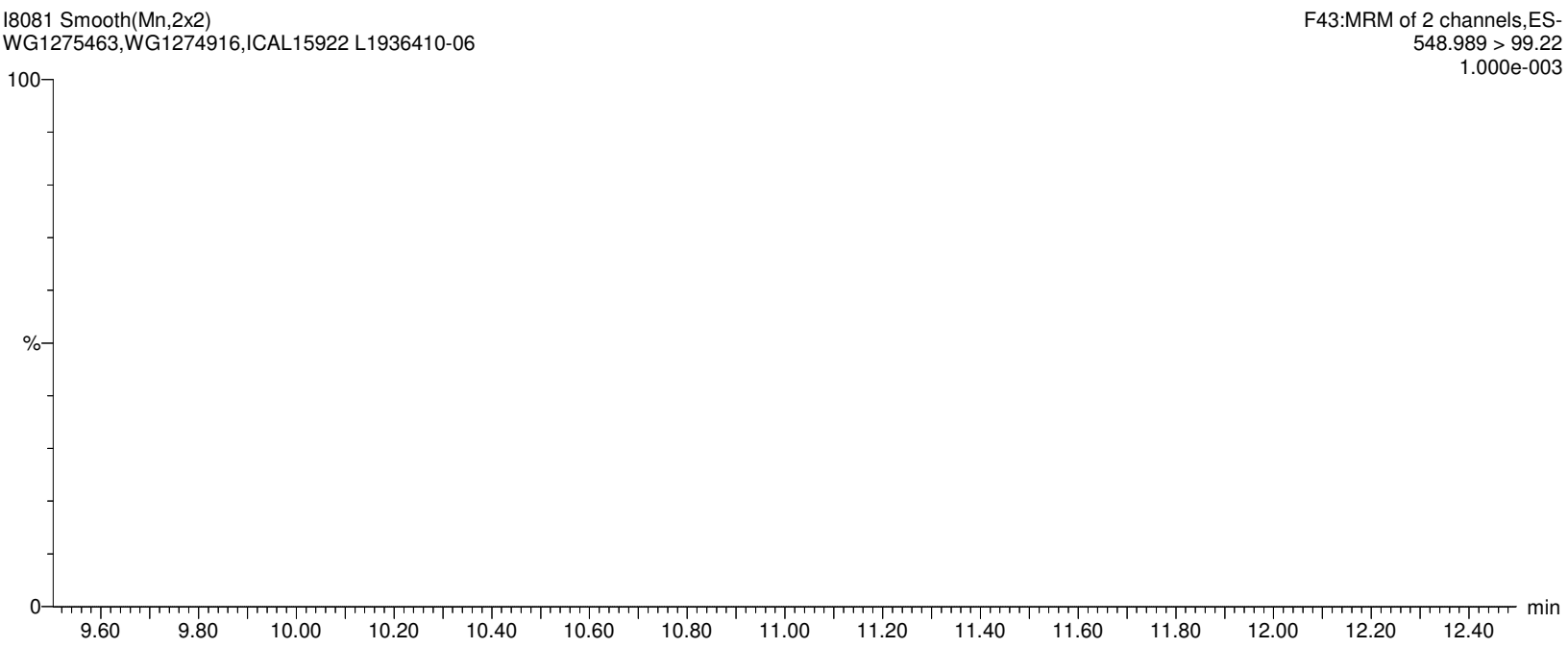
all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\wg1275463b.qld
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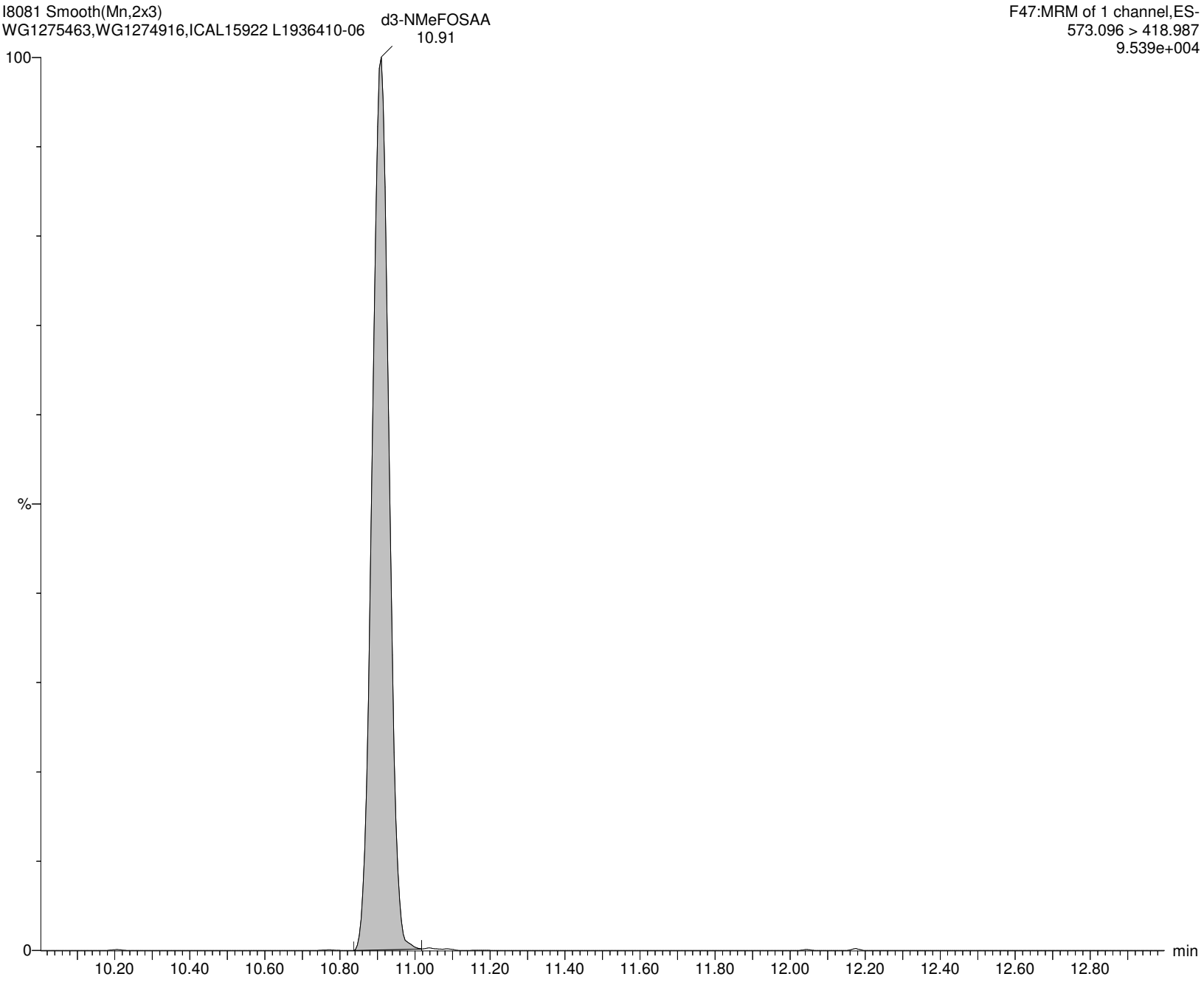


all concentration units in (ng/mL)

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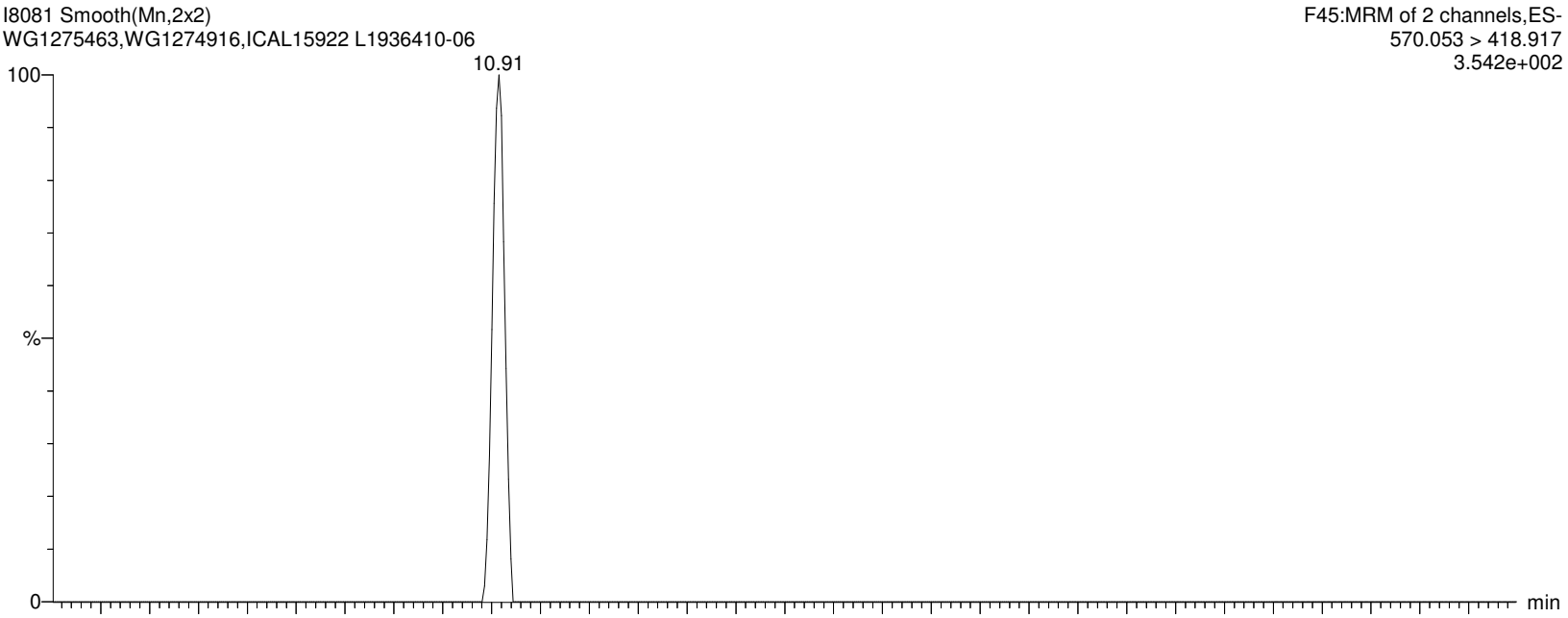


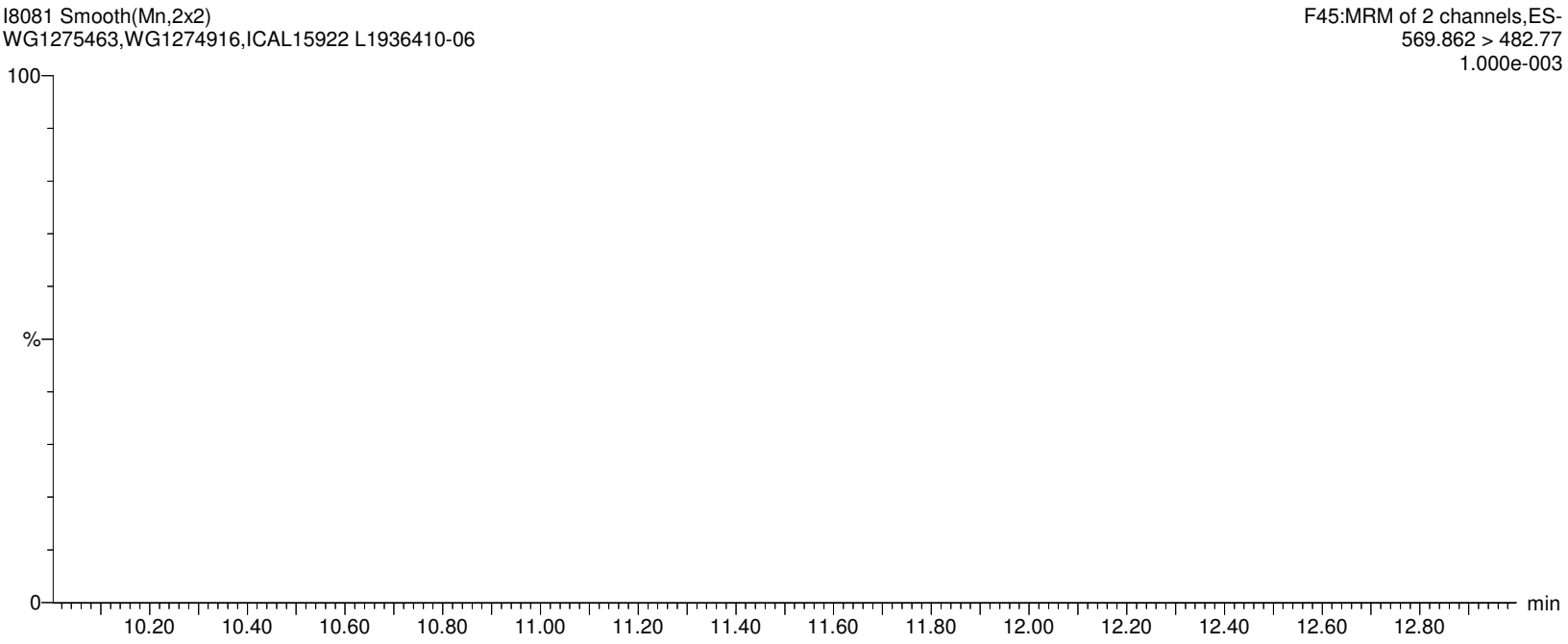
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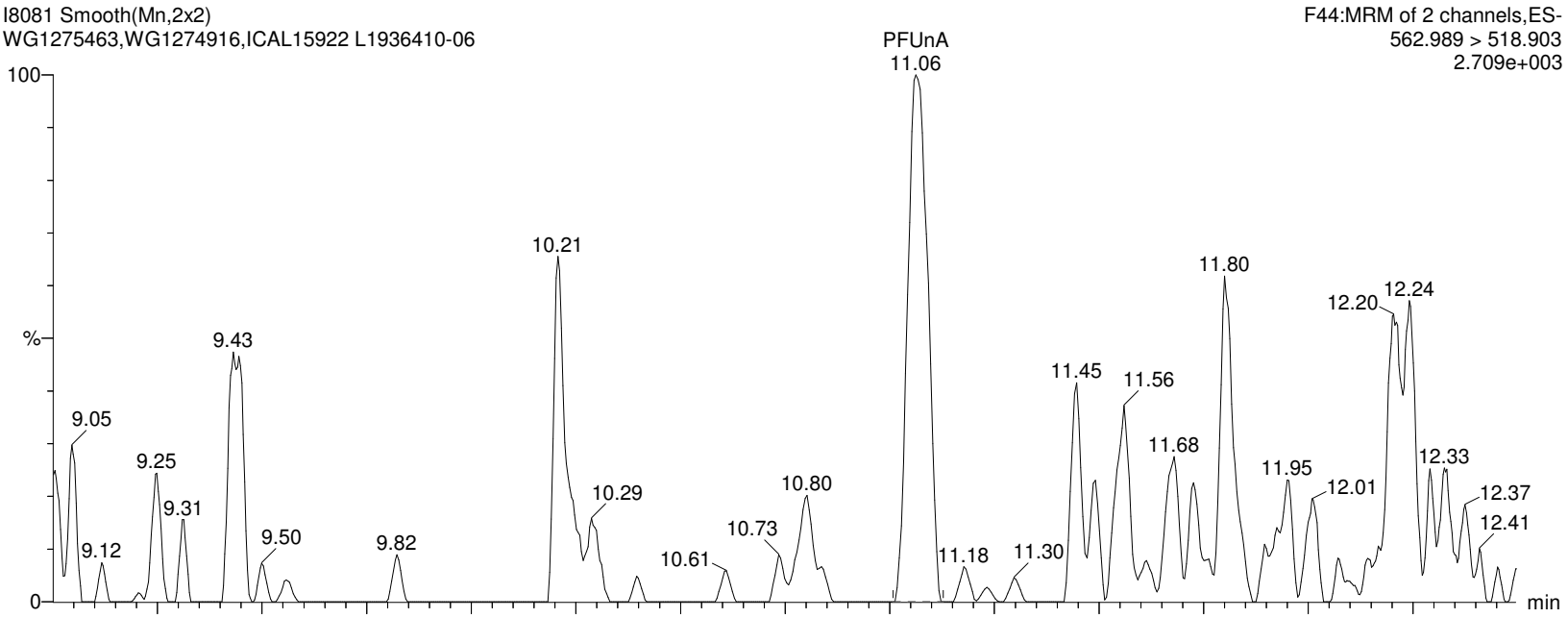


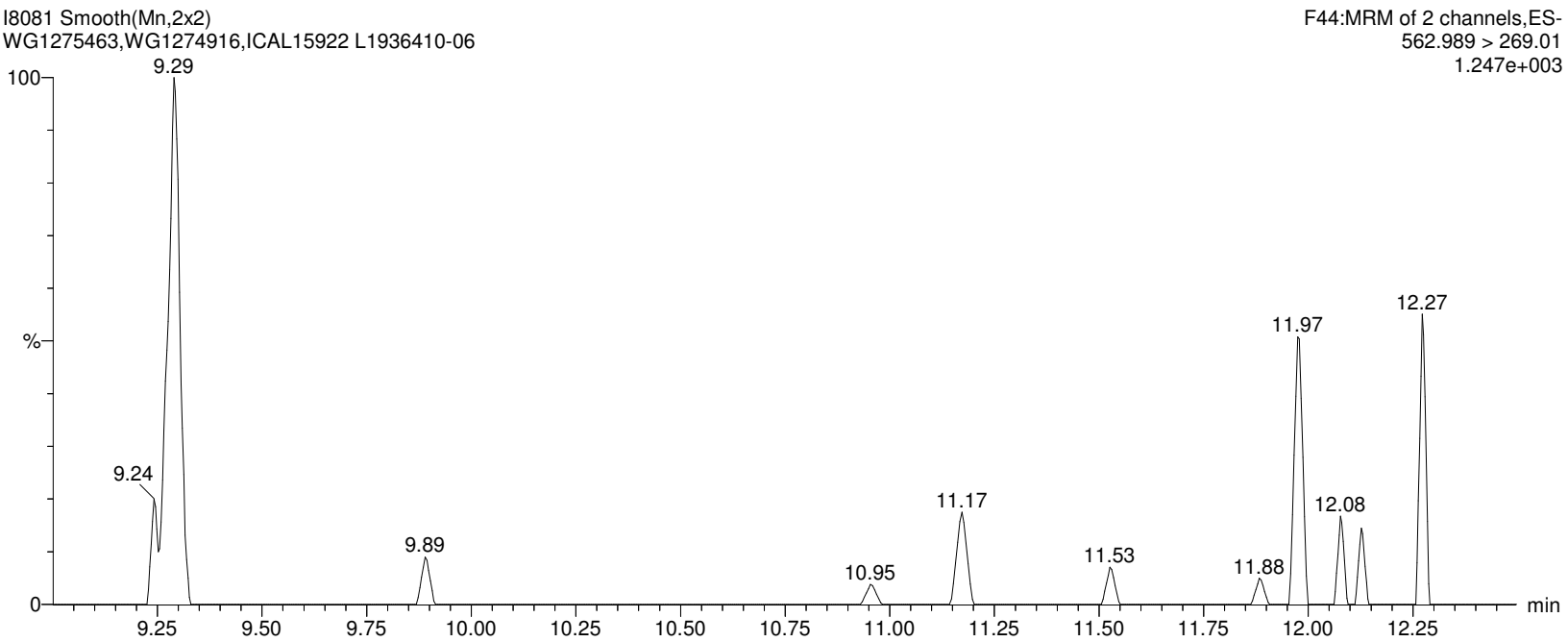
all concentration units in (ng/mL)

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PFUnA



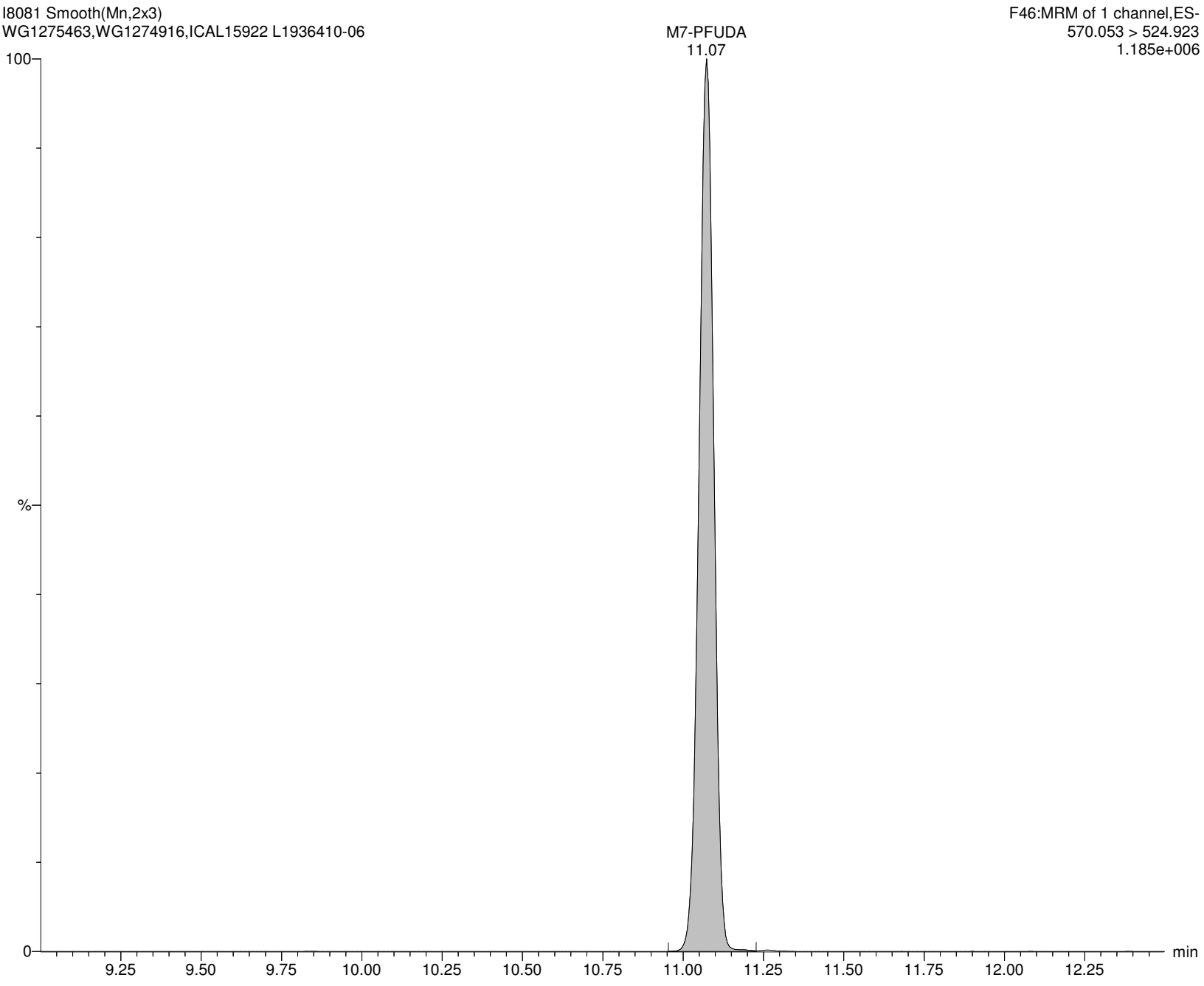


all concentration units in (ng/mL)

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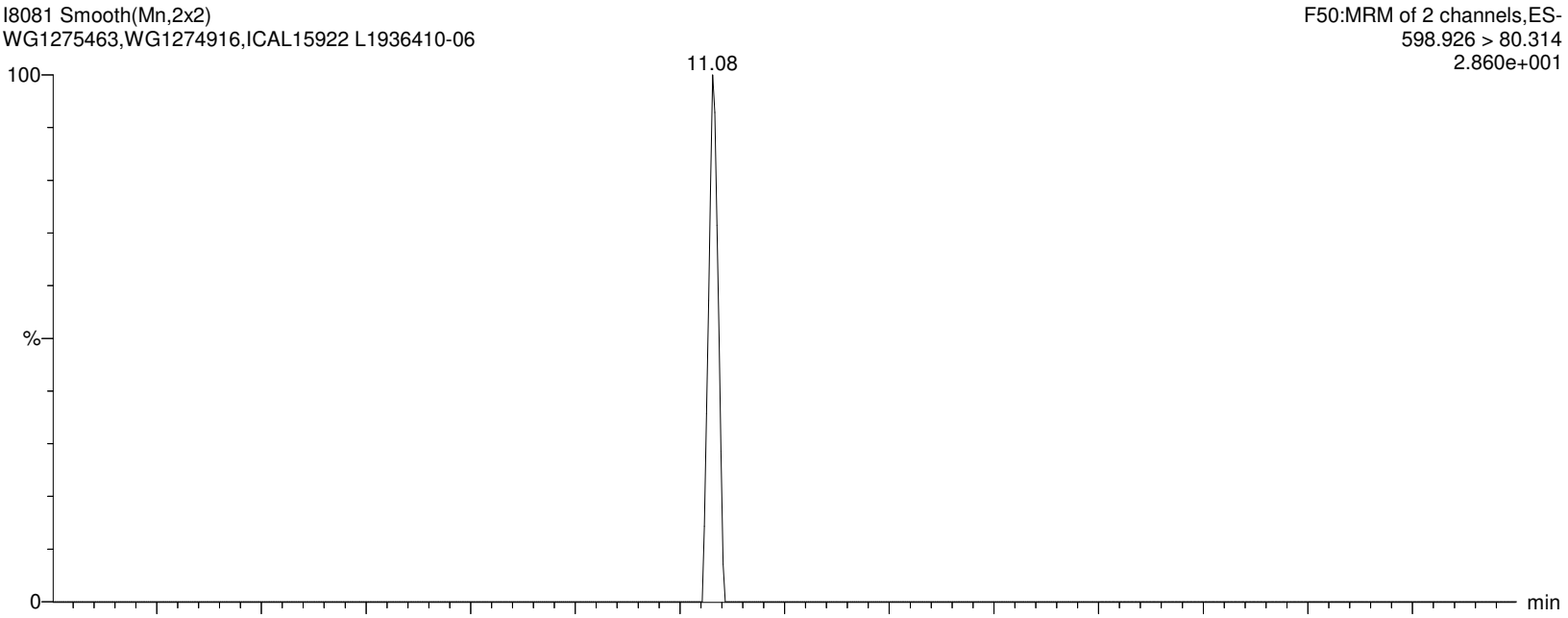


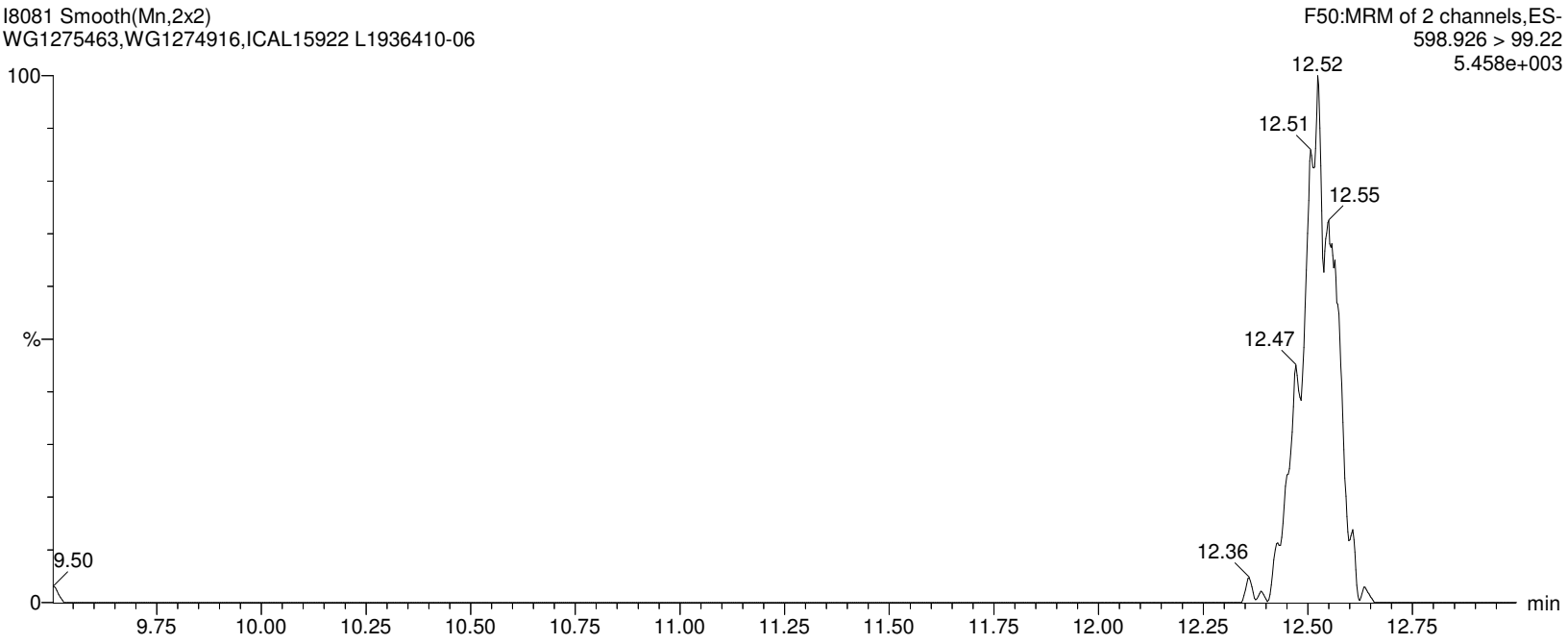
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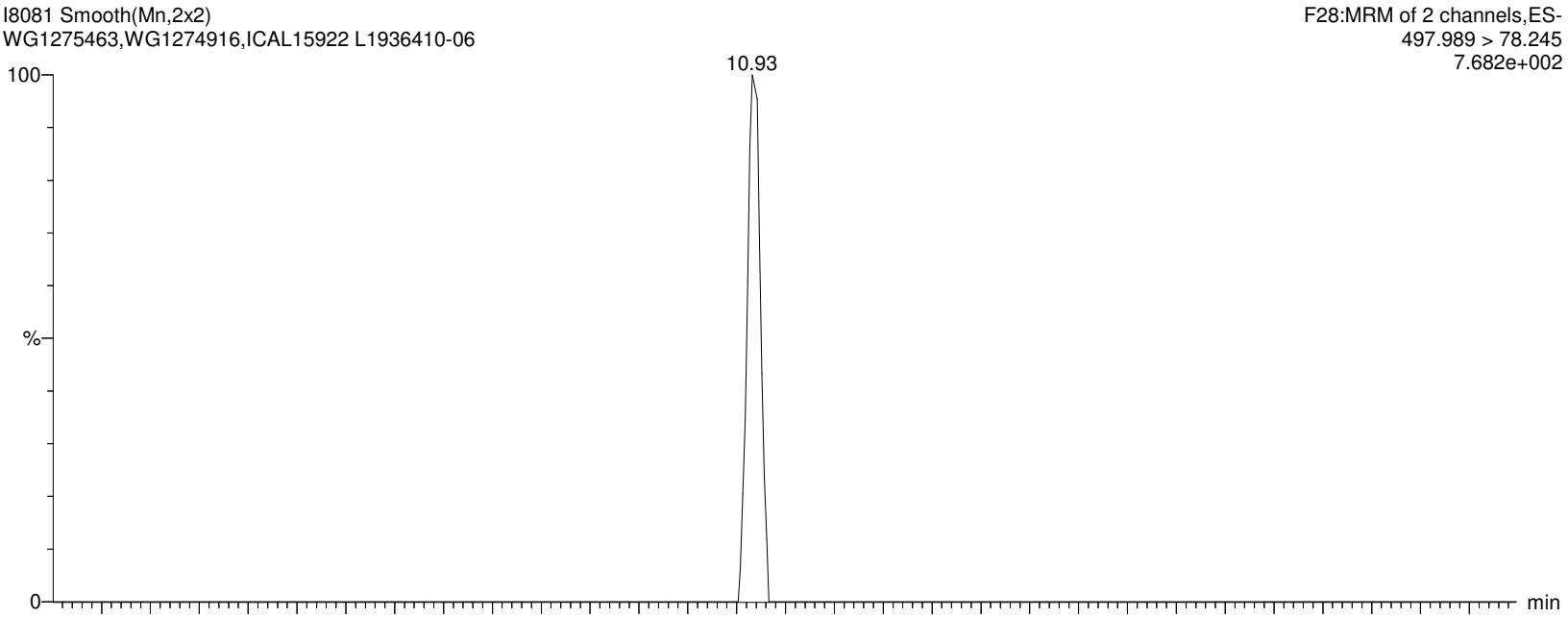


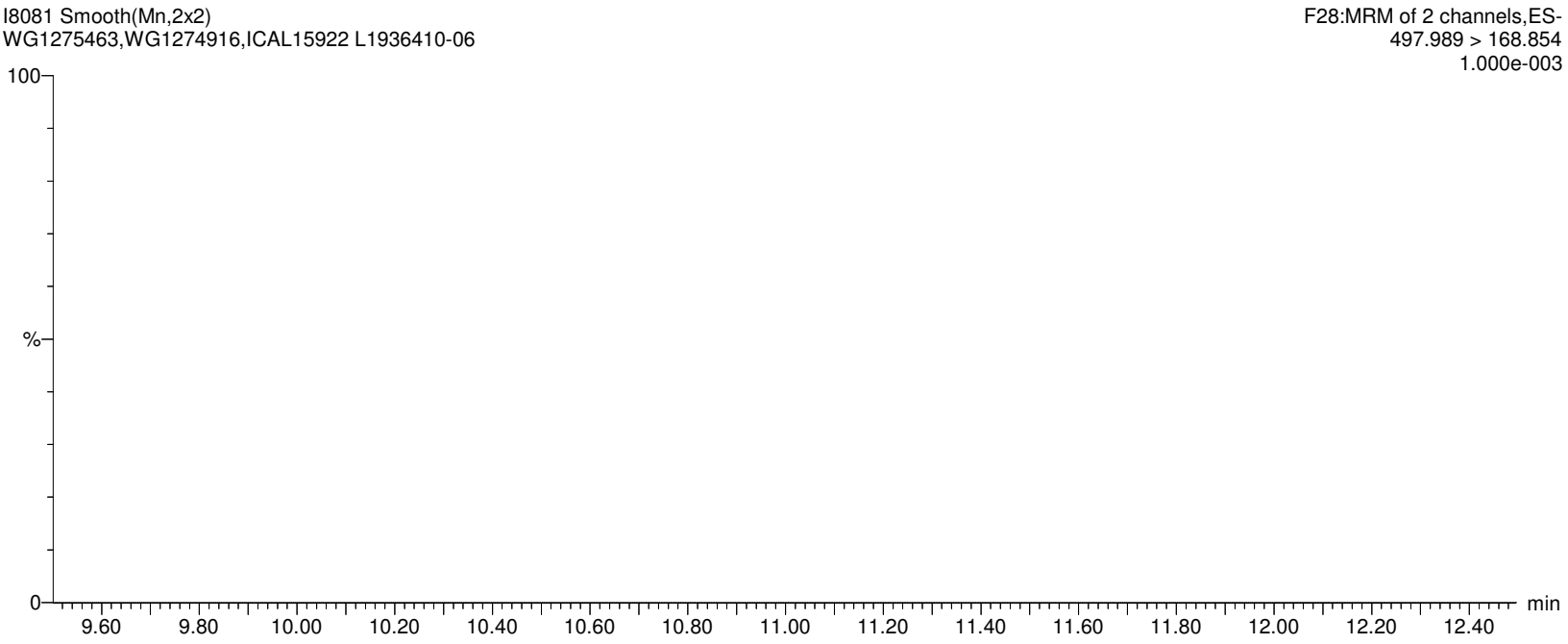
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Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\wg1275463b.qld
Last Altered: Friday, August 23, 2019 09:51:17 Eastern Daylight Time
Printed: Friday, August 23, 2019 09:51:37 Eastern Daylight Time

Name: I8081
ID: L1936410-06
Date: 22-Aug-2019
Time: 16:04:23
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:D,3
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

FOSA



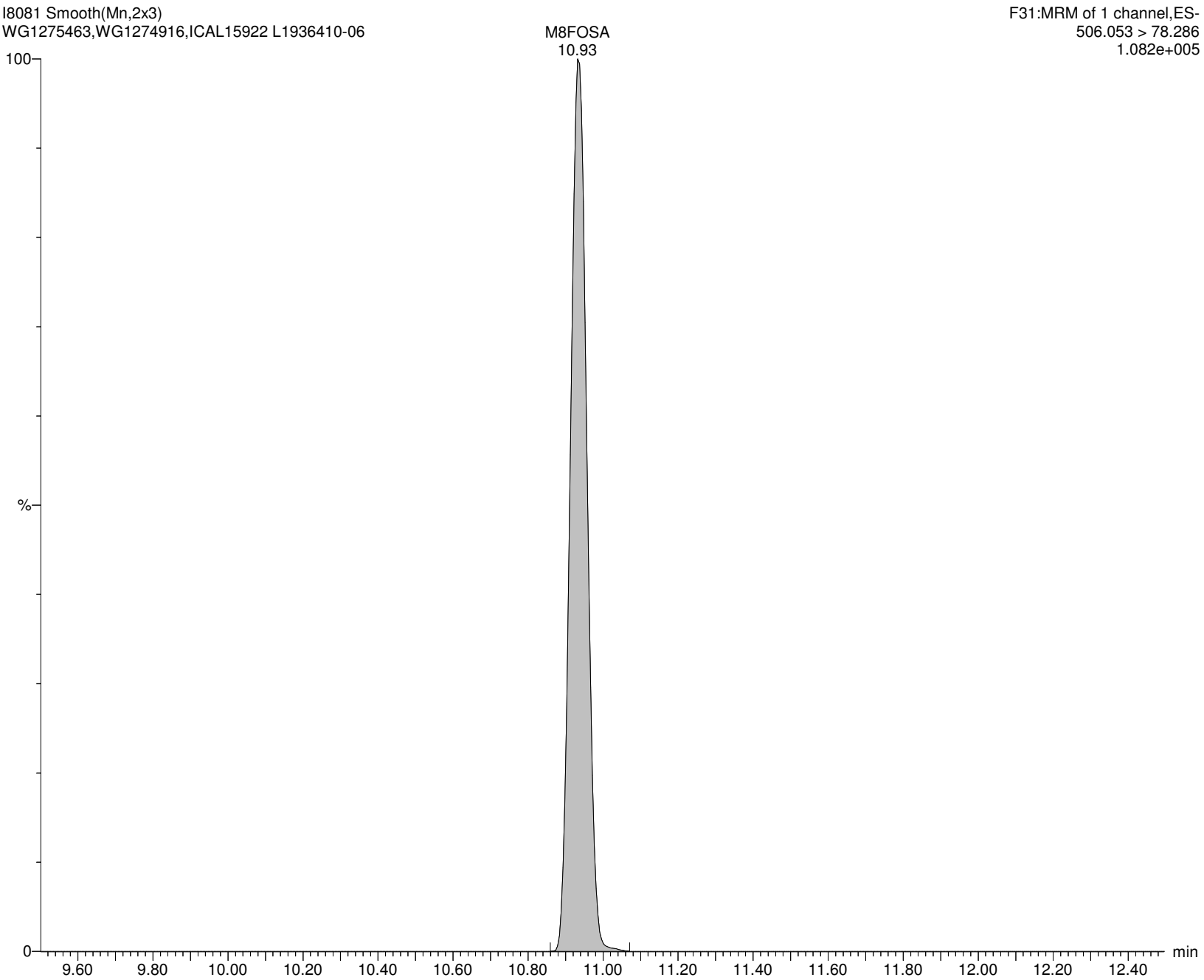


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, August 23, 2019 09:51:17 Eastern Daylight Time
Printed: Friday, August 23, 2019 09:51:37 Eastern Daylight Time

Name: I8081
ID: L1936410-06
Date: 22-Aug-2019
Time: 16:04:23
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:D,3
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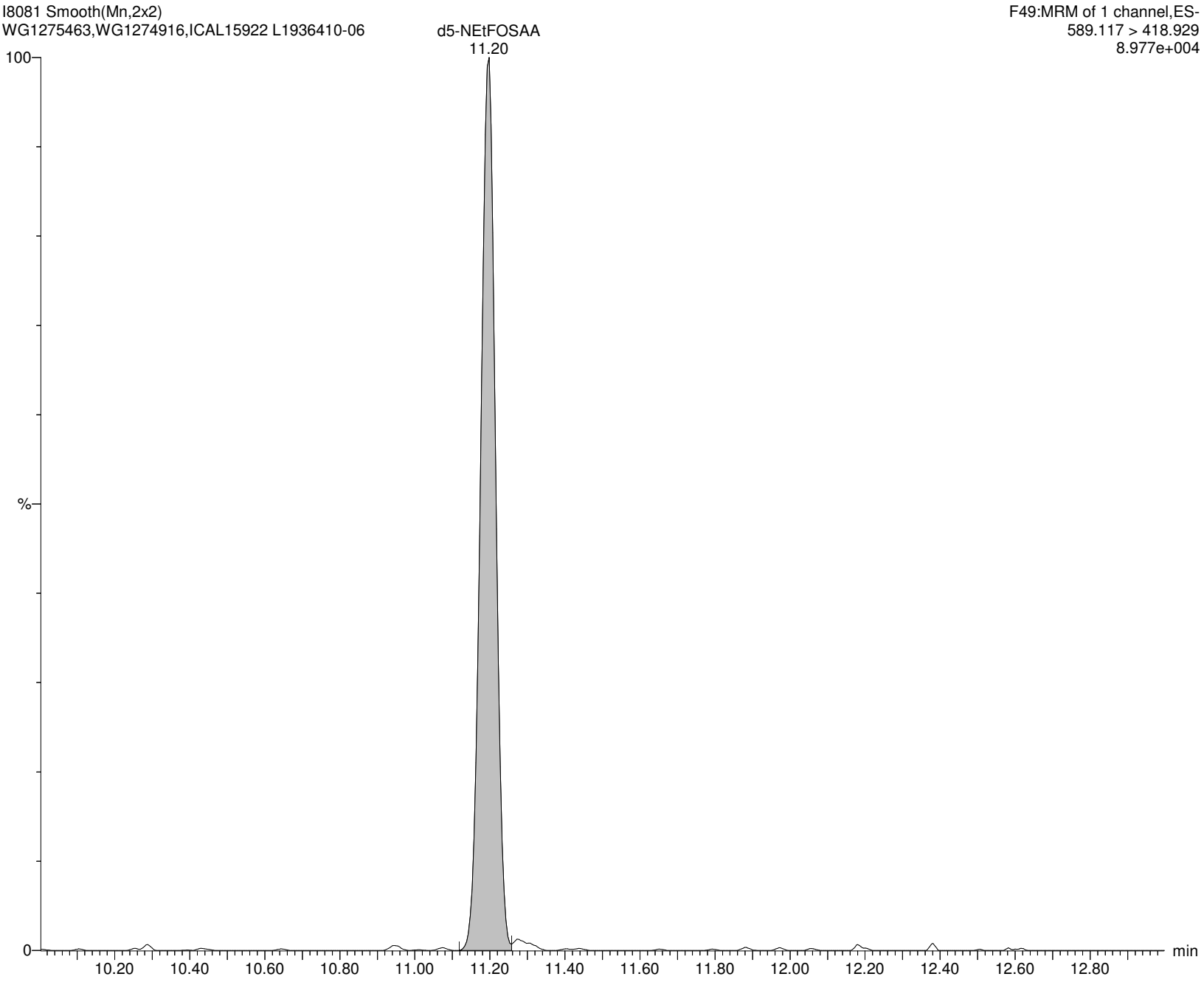


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\wg1275463b.qld
Last Altered: Friday, August 23, 2019 09:51:17 Eastern Daylight Time
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Name: I8081
ID: L1936410-06
Date: 22-Aug-2019
Time: 16:04:23
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:D,3
Instrument: XEVO-TQSmicro#QEB0050
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Tune Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\181009_TUNE.IPR
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d5-NEtFOSAA

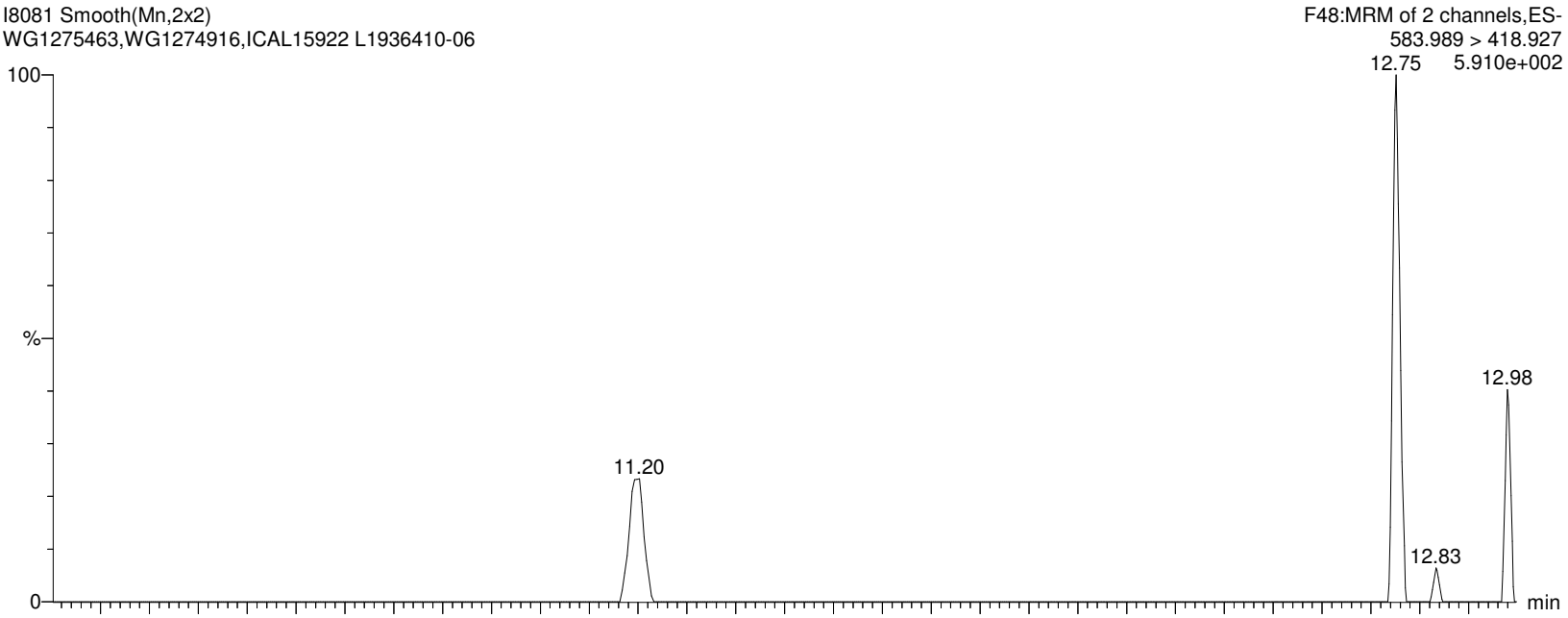


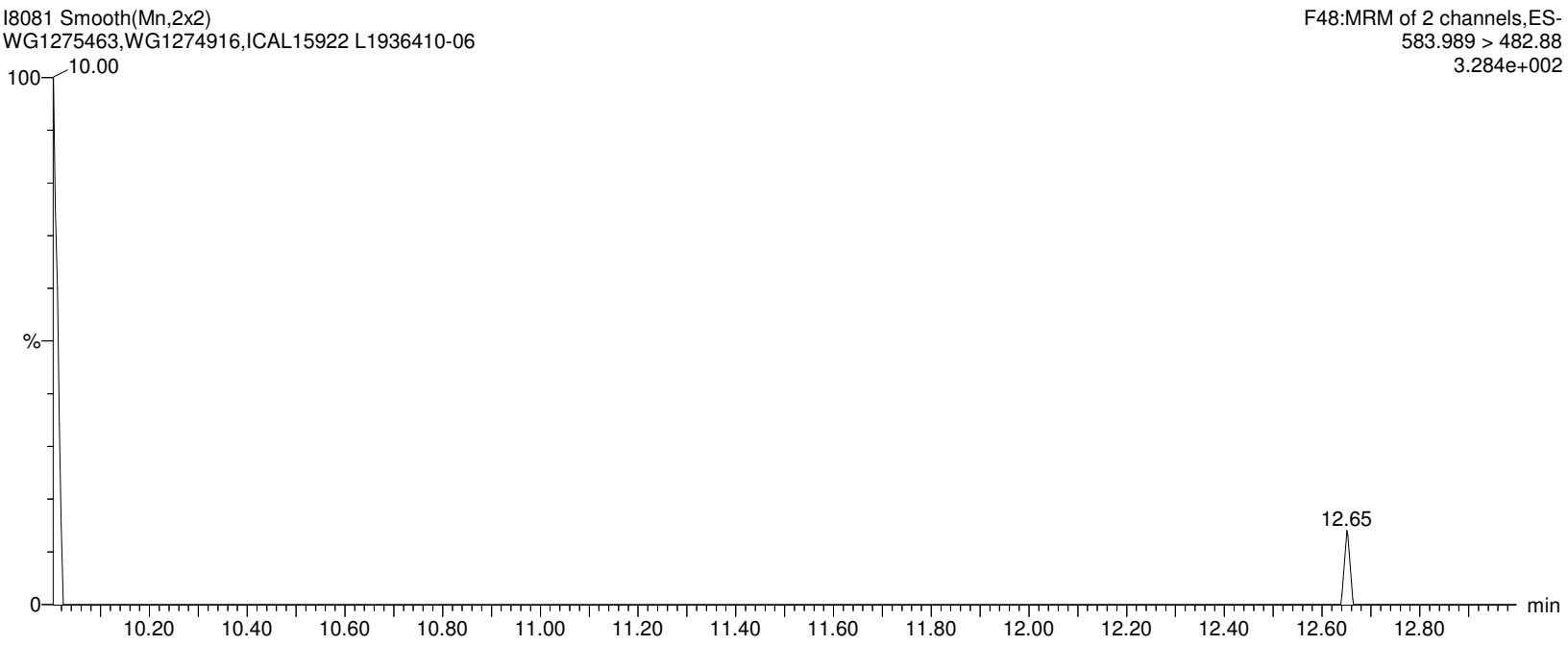
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\wg1275463b.qld
Last Altered: Friday, August 23, 2019 09:51:17 Eastern Daylight Time
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Name: I8081
ID: L1936410-06
Date: 22-Aug-2019
Time: 16:04:23
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:D,3
Instrument: XEVO-TQSmicro#QEB0050
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NEtFOSAA



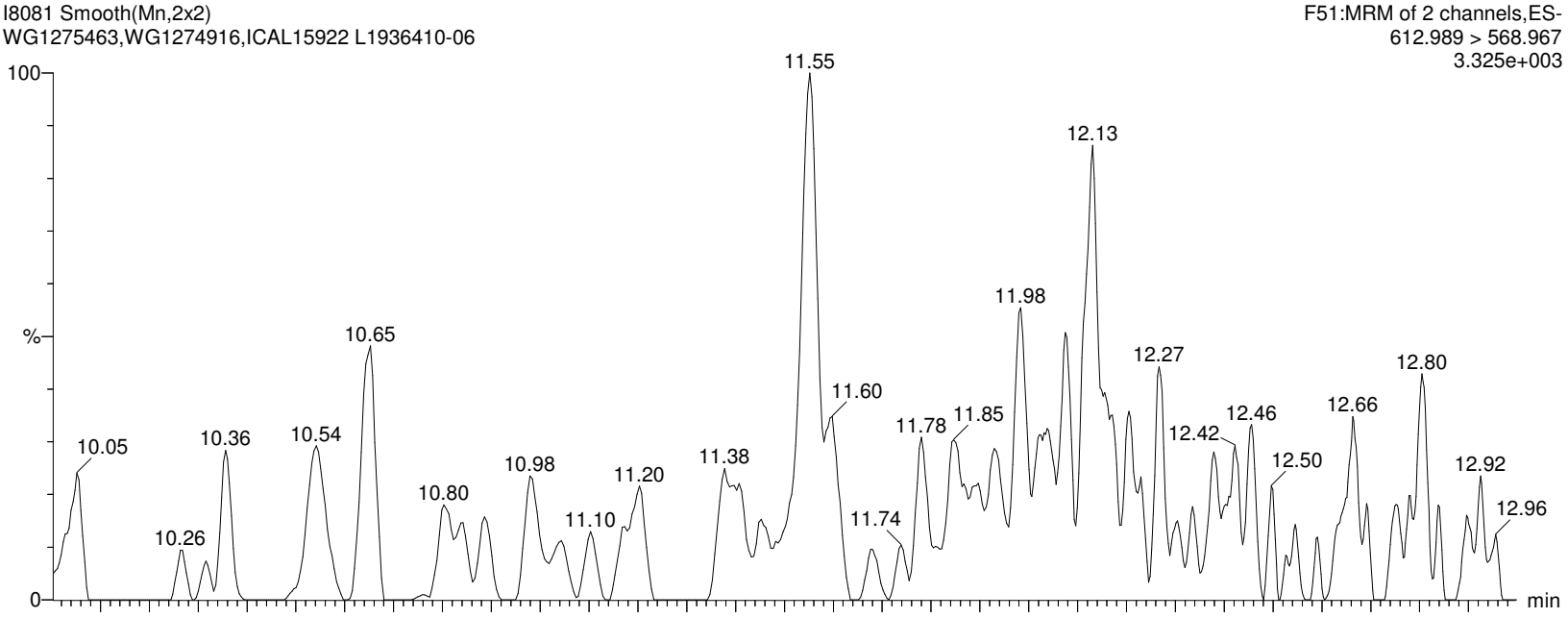


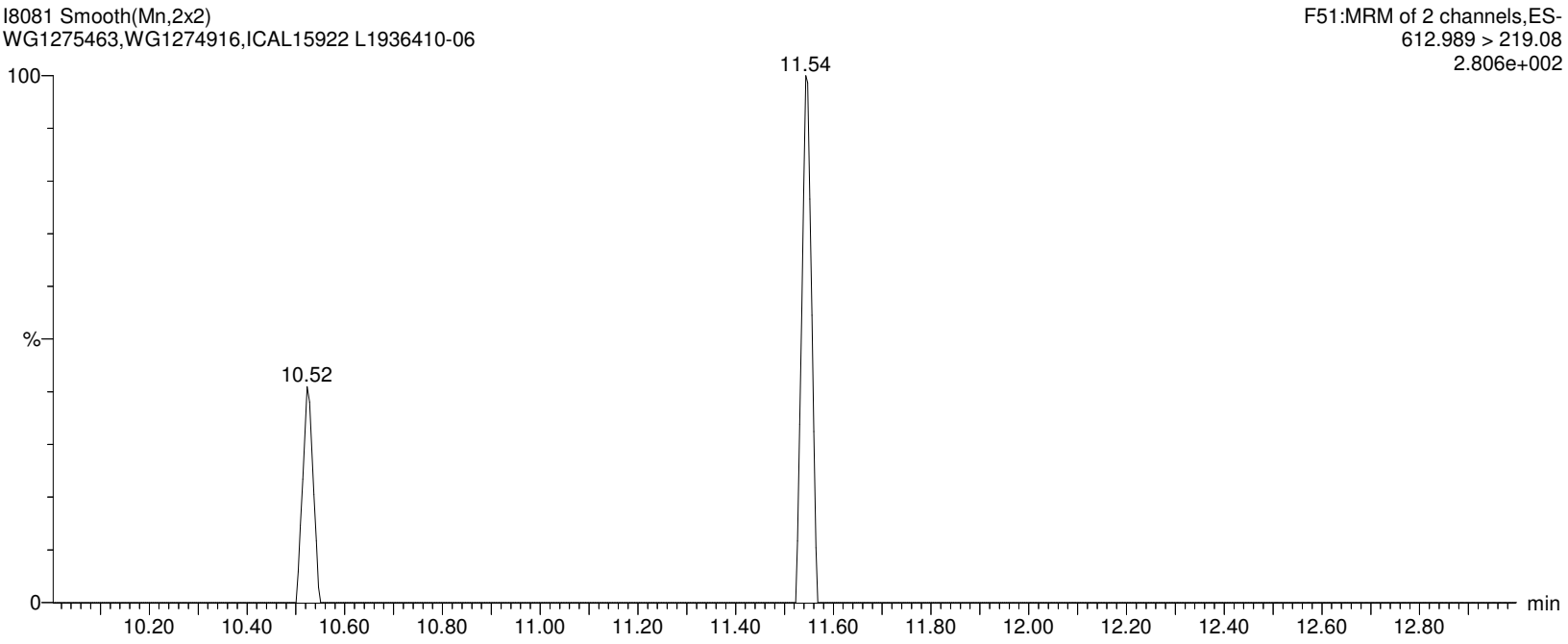
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\wg1275463b.qld
Last Altered: Friday, August 23, 2019 09:51:17 Eastern Daylight Time
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Name: I8081
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User: LCMS02:JW
Vial: 1:D,3
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PFDoA



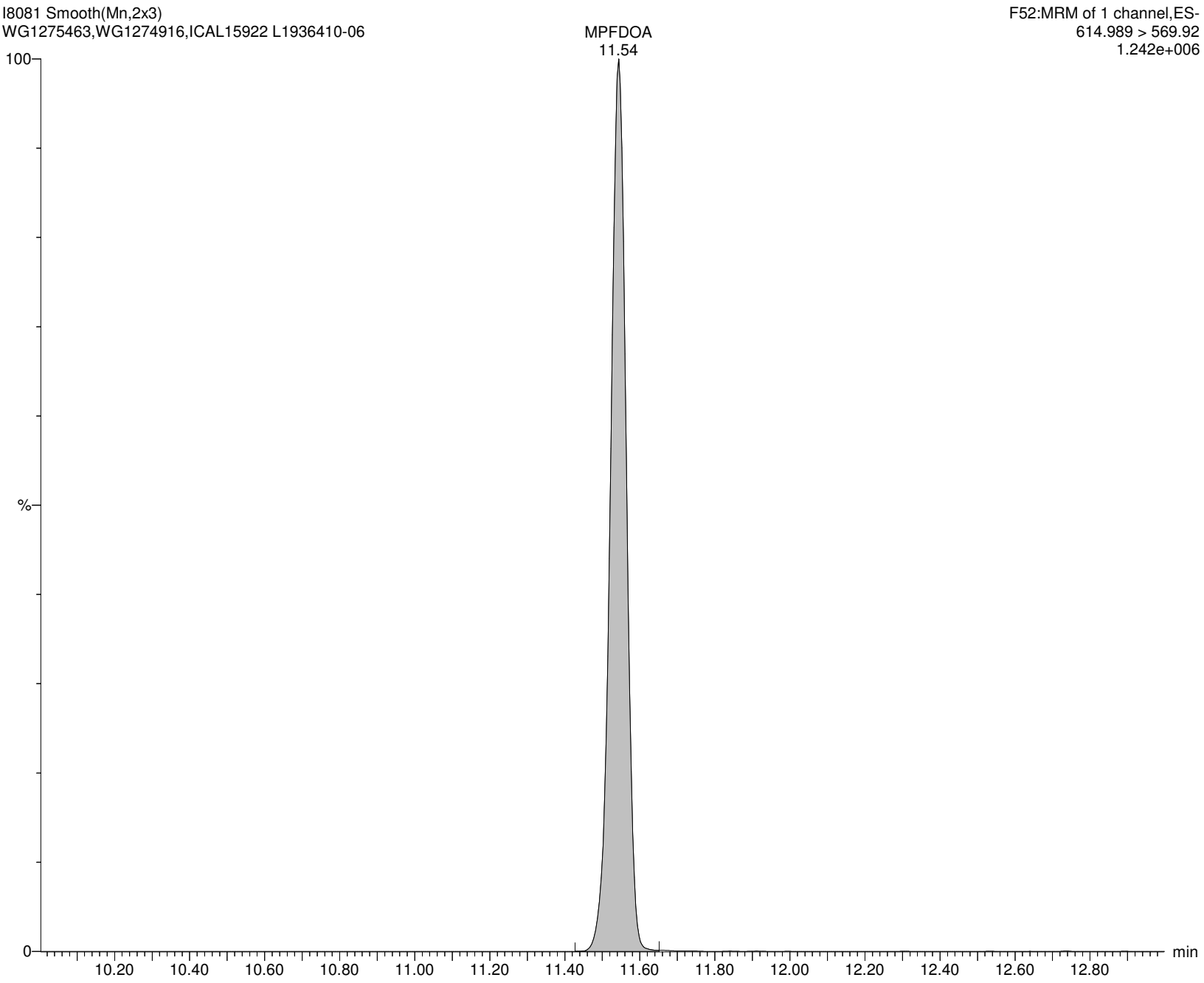


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\wg1275463b.qld
Last Altered: Friday, August 23, 2019 09:51:17 Eastern Daylight Time
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Name: I8081
ID: L1936410-06
Date: 22-Aug-2019
Time: 16:04:23
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:D,3
Instrument: XEVO-TQSmicro#QEB0050
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Tune Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\181009_TUNE.IPR
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MPFDOA

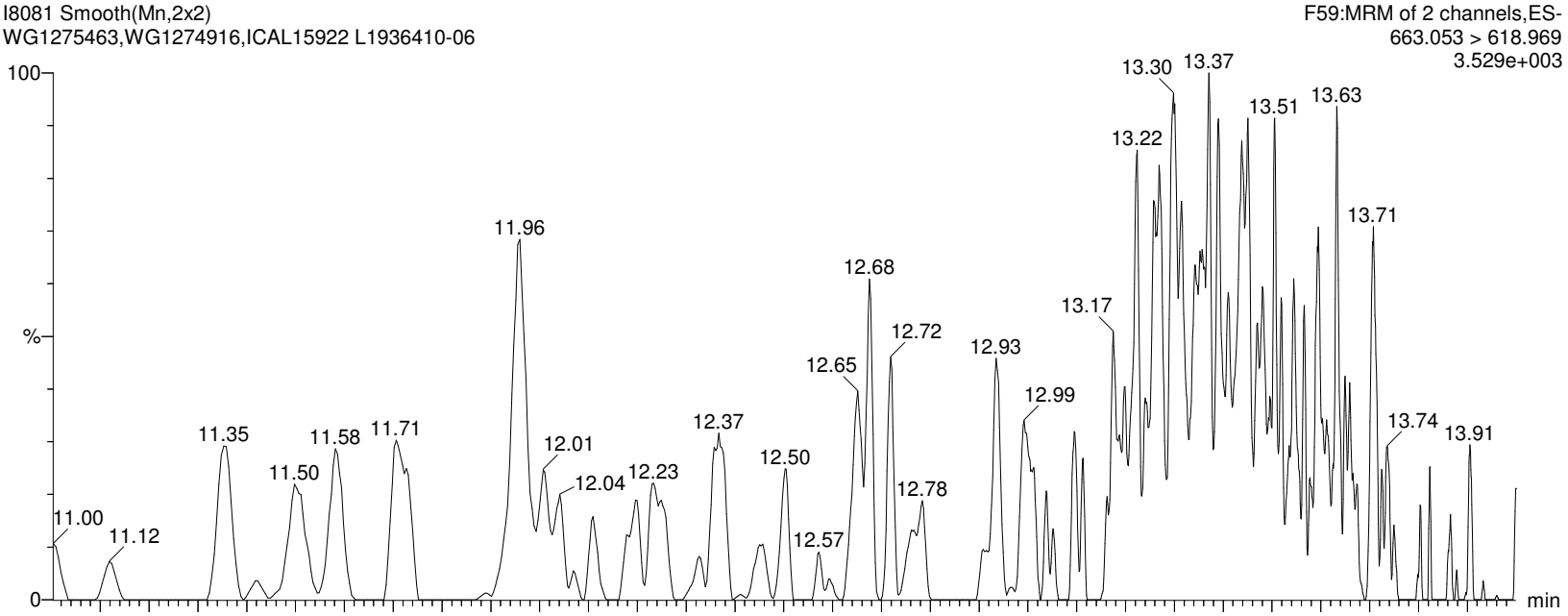


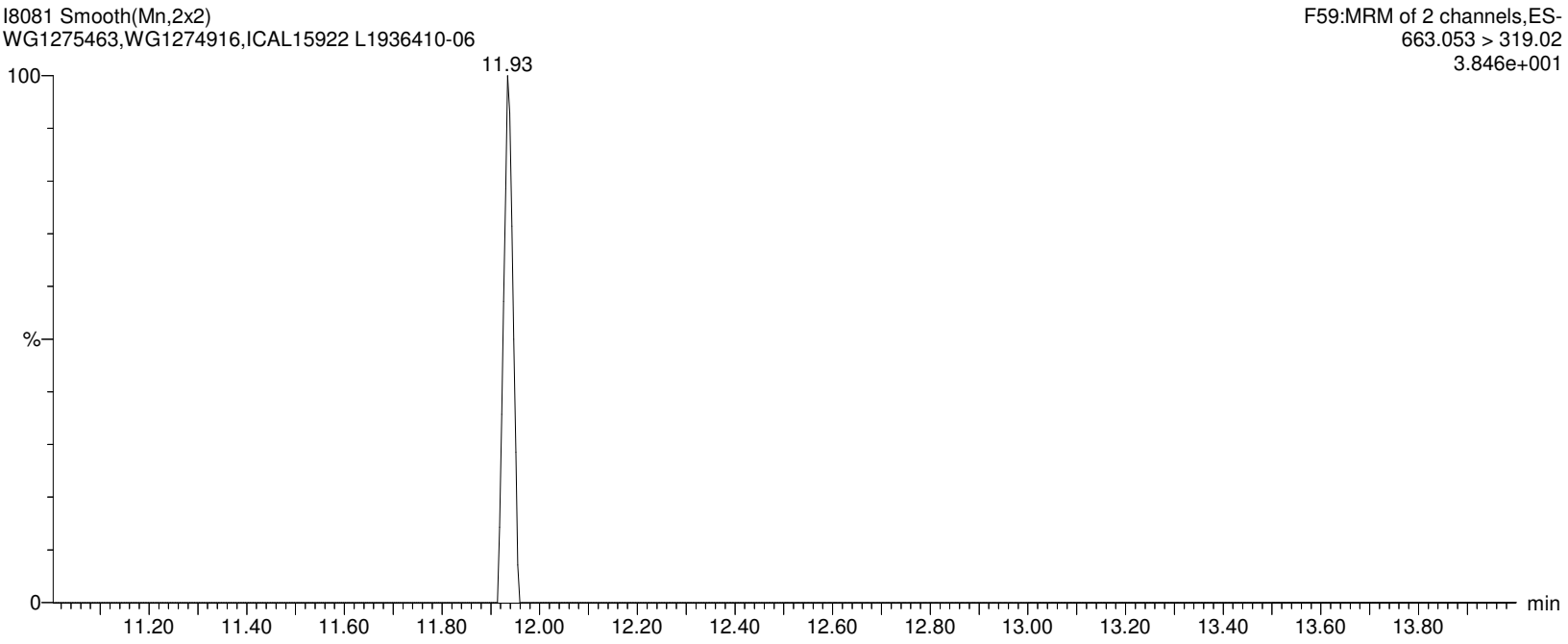
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\wg1275463b.qld
Last Altered: Friday, August 23, 2019 09:51:17 Eastern Daylight Time
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Name: I8081
ID: L1936410-06
Date: 22-Aug-2019
Time: 16:04:23
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:D,3
Instrument: XEVO-TQSmicro#QEB0050
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Tune Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\181009_TUNE.IPR
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PFTrDA



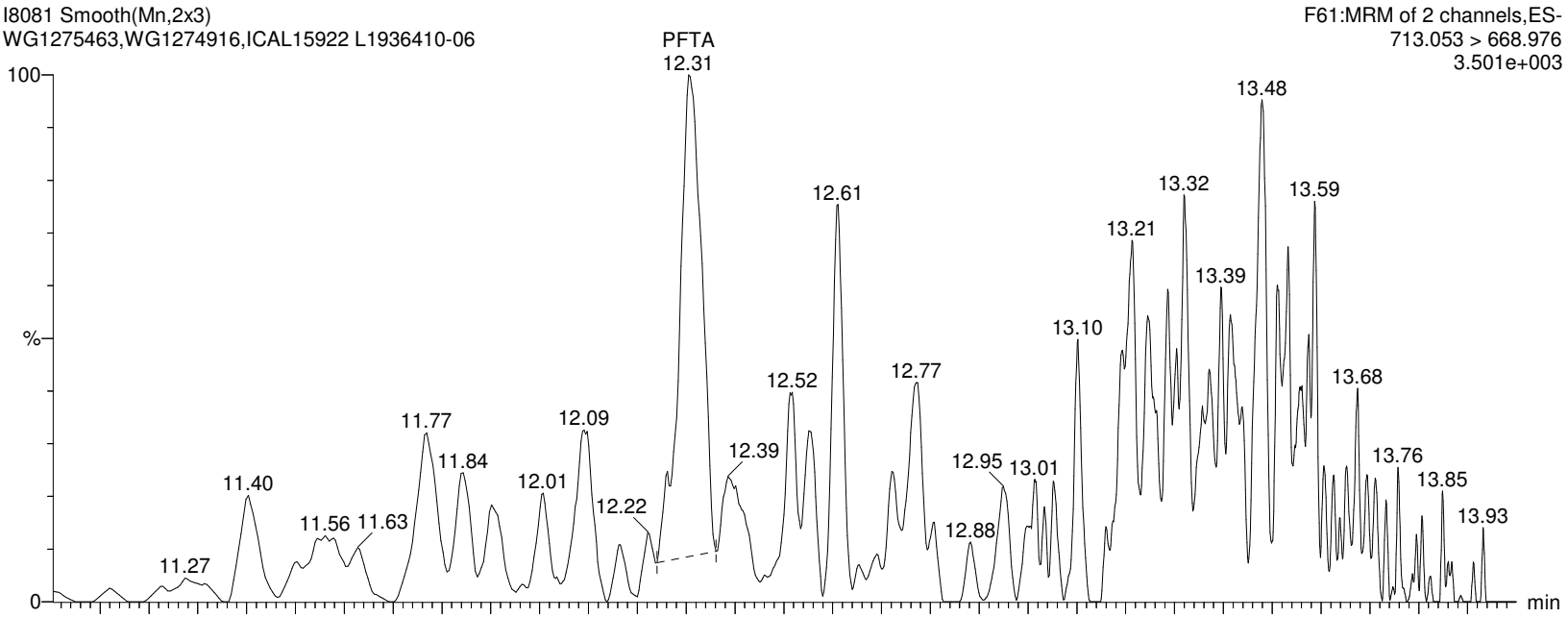


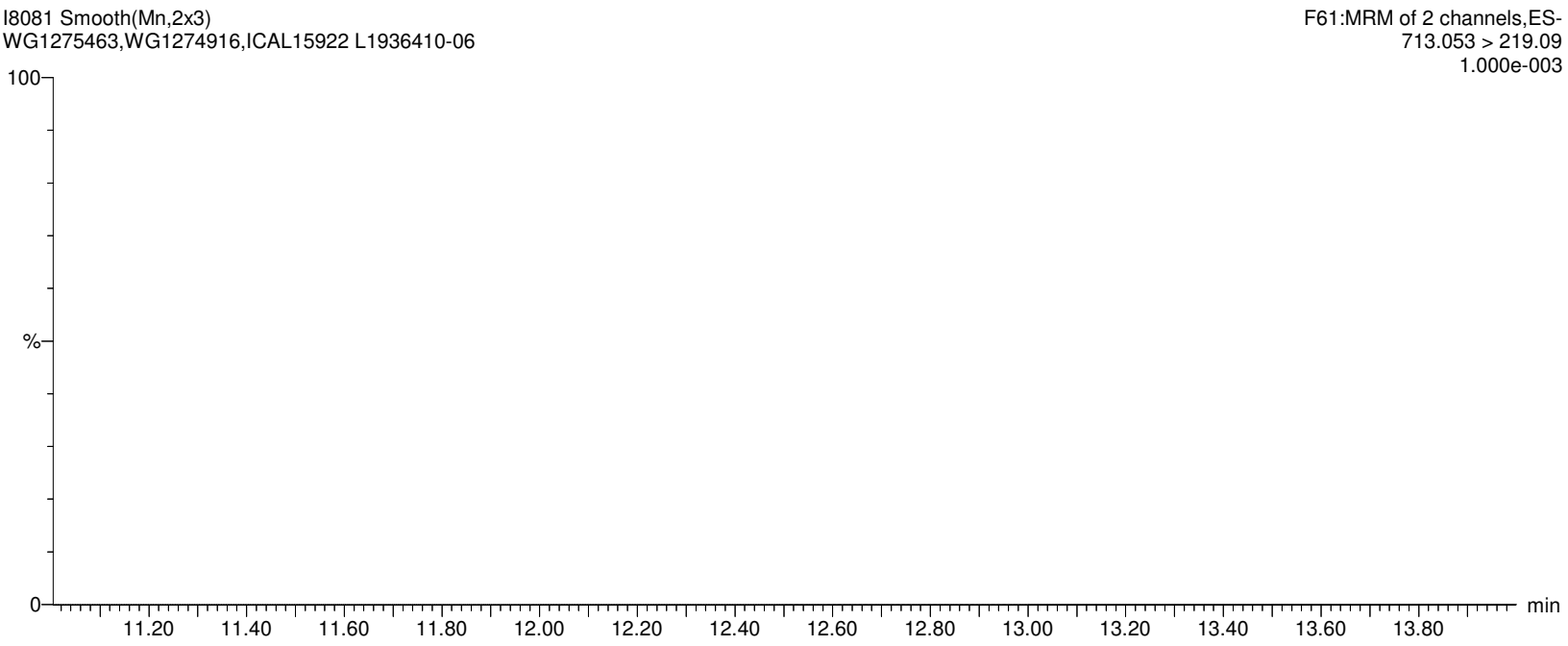
all concentration units in (ng/mL)

Alpha Analytical Inc.
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User: LCMS02:JW
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Instrument: XEVO-TQSmicro#QEB0050
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Tune Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

PFTA



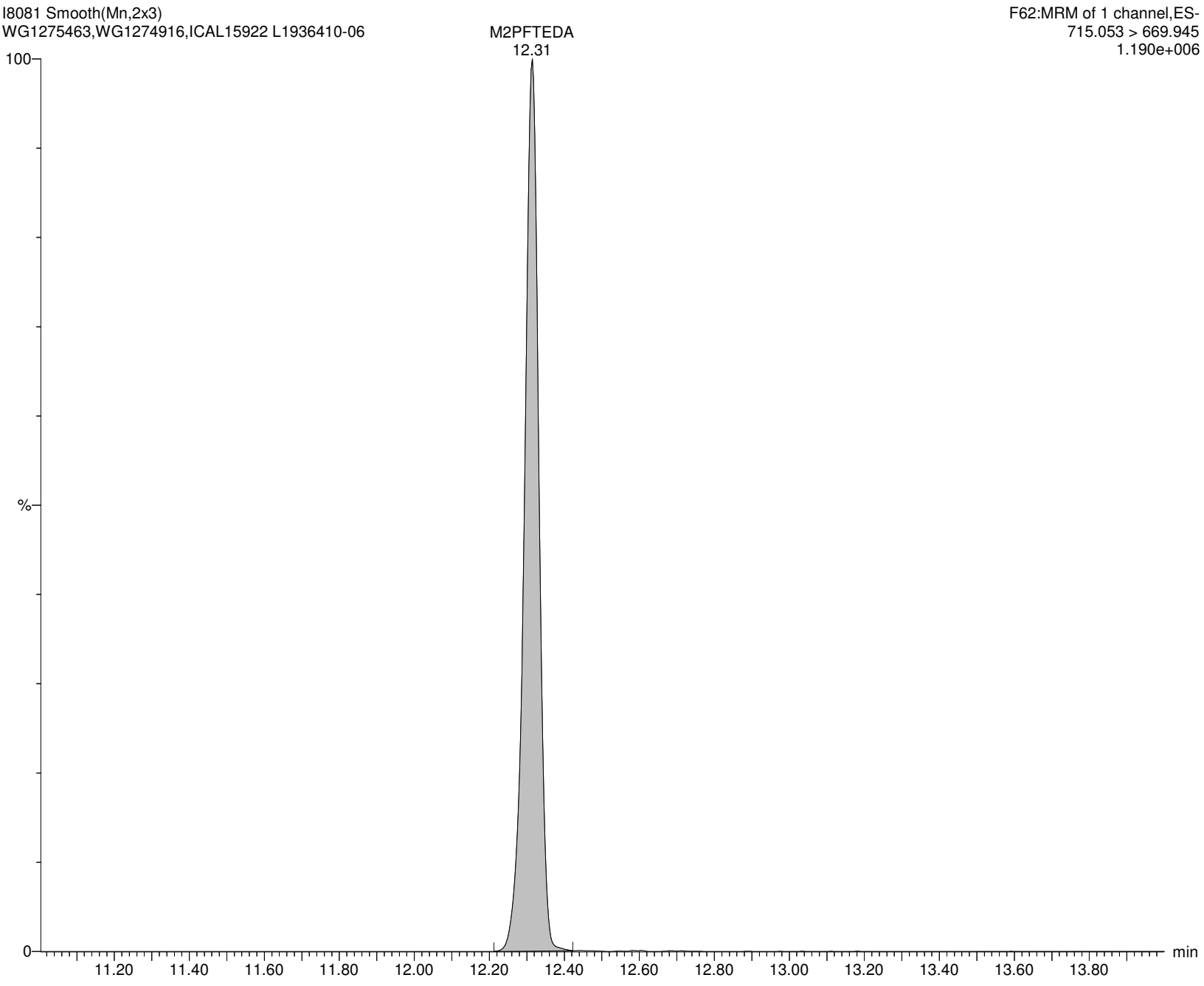


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\wg1275463b.qld
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Printed: Friday, August 23, 2019 09:51:37 Eastern Daylight Time

Name: I8081
ID: L1936410-06
Date: 22-Aug-2019
Time: 16:04:23
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:D,3
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

M2PFTEDA



all concentration units in (ng/mL)

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	: Arcadis of New York, Inc.	Lab Number	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

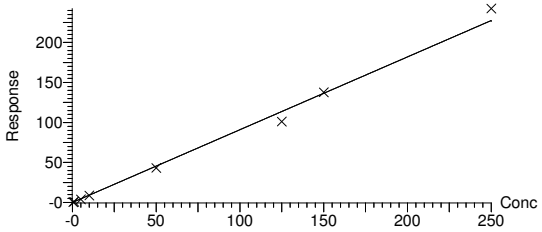
Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Method: C:\MassLynx\Data\2019\190701_537ISO.PRO\MethDB\537ISO_Q_190702_DOD.mdb 17 Jun 2019 11:52:40
Calibration: C:\MassLynx\Data\2019\190701_537ISO.PRO\CurveDB\190702_ISO_ICAL.cdb 02 Jul 2019 11:07:37

Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	2.102	44372.379	1906.609	0.472	94.4	0.859	232		0.86
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	2.103	41132.574	3591.371	0.960	96.0	0.873	1289		0.90
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	2.103	43993.914	17423.174	4.352	87.0	0.792	1644		0.87
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	2.103	42801.539	36633.340	9.406	94.1	0.856	14653		0.87
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	2.103	44024.703	189769.344	47.372	94.7	0.862	43638		0.87
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	2.097	44449.523	449948.156	111.246	89.0	0.810	368		0.86
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	2.097	42978.434	591576.938	151.269	100.8	0.918	103433		0.82
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	2.097	43206.117	1047429.688	266.422	106.6	0.970	174272		0.77

Compound name: PFBA
Coefficient of Determination: R^2 = 0.995037
Calibration curve: 0.909933 * x
Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

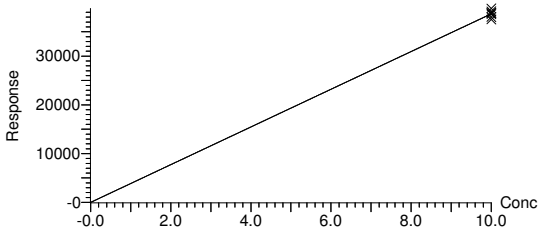
Client	: Arcadis of New York, Inc.	Lab Number	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: M3PFBA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	2.104		39786.063	10.287	102.9	3978.606	5688		0.87
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	2.104		38008.168	9.827	98.3	3800.817	5663		0.89
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	2.104		38592.258	9.978	99.8	3859.226	34382		0.87
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	2.104		38614.211	9.984	99.8	3861.421	31916		0.86
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	2.099		39196.066	10.134	101.3	3919.607	26373		0.88
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	2.099		38893.883	10.056	100.6	3889.388	52961		0.84
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	2.099		38782.465	10.027	100.3	3878.247	13702		0.81
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	2.093		37539.527	9.706	97.1	3753.953	13431		0.77

Compound name: M3PFBA
Response Factor: 3867.66
RRF SD: 68.7637, % Relative SD: 1.77792
Response type: External Std, Area
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

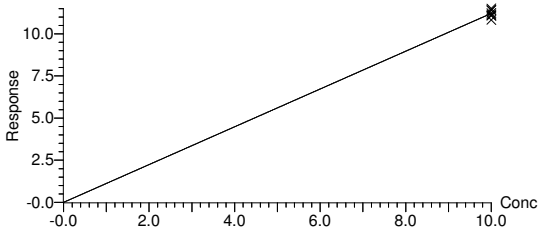
Client	: Arcadis of New York, Inc.	Lab Number	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: MPFBA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	2.106	39786.063	44372.379	9.946	99.5	1.115	32655		0.86
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	2.101	38008.168	41132.574	9.651	96.5	1.082	27231		0.90
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	2.101	38592.258	43993.914	10.166	101.7	1.140	31598		0.88
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	2.101	38614.211	42801.539	9.885	98.8	1.108	43322		0.87
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	2.101	39196.066	44024.703	10.016	100.2	1.123	17068		0.88
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	2.101	38893.883	44449.523	10.191	101.9	1.143	23913		0.84
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	2.101	38782.465	42978.434	9.882	98.8	1.108	27252		0.80
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	2.095	37539.527	43206.117	10.264	102.6	1.151	75564		0.77

Compound name: MPFBA
Response Factor: 1.12138
RRF SD: 0.0226689, % Relative SD: 2.02151
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

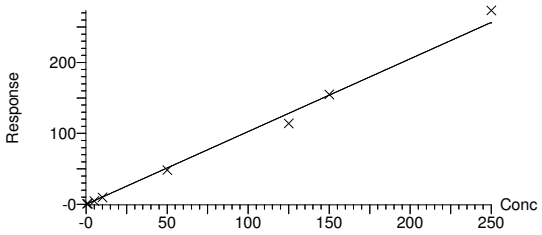
Client	: Arcadis of New York, Inc.	Lab Number	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: PFPeA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	4.988	64624.387	3730.622	0.563	112.5	1.155	1094		0.87
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	4.987	60069.910	6517.782	1.057	105.7	1.085	1846		0.87
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	4.984	63532.242	29543.045	4.531	90.6	0.930	6291		0.84
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	4.984	61947.293	60120.762	9.458	94.6	0.971	5644		0.85
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	4.983	62747.711	303325.344	47.108	94.2	0.967	37304		0.85
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	4.983	61356.836	700136.750	111.199	89.0	0.913	142304		0.82
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	4.984	59613.461	924782.688	151.173	100.8	1.034	148131		0.75
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	4.983	57331.730	1567354.750	266.411	106.6	1.094	156558		0.69

Compound name: PFPeA
Coefficient of Determination: R^2 = 0.995027
Calibration curve: 1.02617 * x
Response type: Internal Std (Ref 5), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

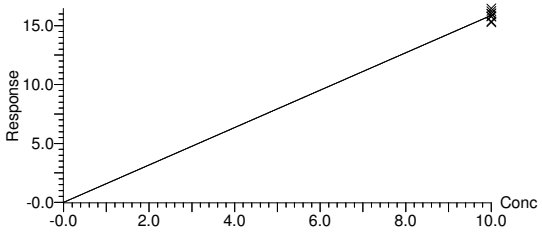
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: M5PFPEA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	4.987	39786.063	64624.387	10.233	102.3	1.624	13977		0.84
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	4.983	38008.168	60069.910	9.957	99.6	1.580	14873		0.90
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	4.983	38592.258	63532.242	10.372	103.7	1.646	11221		0.83
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	4.983	38614.211	61947.293	10.107	101.1	1.604	18243		0.84
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	4.982	39196.066	62747.711	10.086	100.9	1.601	13195		0.84
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	4.982	38893.883	61356.836	9.939	99.4	1.578	13096		0.82
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	4.982	38782.465	59613.461	9.684	96.8	1.537	11897		0.76
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	4.982	37539.527	57331.730	9.622	96.2	1.527	9824		0.69

Compound name: M5PFPEA
Response Factor: 1.58725
RRF SD: 0.0406768, % Relative SD: 2.56272
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

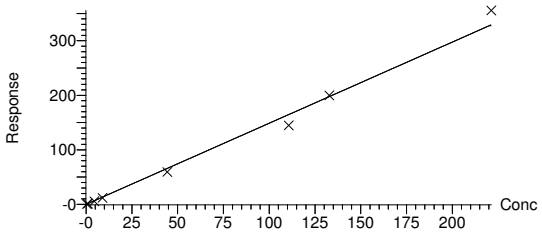
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	5.650	10608.788	630.125	0.399	90.2	1.342	146	50	0.85
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	5.646	9703.493	1197.989	0.830	93.8	1.395	15214	125	0.89
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	5.643	10475.751	5836.958	3.745	84.6	1.259	1829	524	0.87
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	5.644	9973.558	11863.916	7.994	90.3	1.344	1690	1692	0.88
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	5.643	10304.590	61247.109	39.945	90.3	1.343	11984	6867	0.87
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	5.643	9712.109	140452.969	97.192	87.9	1.307	27729	12279	0.86
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	5.642	9150.648	182972.188	134.383	101.2	1.506	38734	16497	0.82
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	5.640	8701.105	309414.531	238.989	108.0	1.607	77930	32857	0.78

Compound name: PFBS
Coefficient of Determination: R^2 = 0.992804
Calibration curve: 1.48795 * x
Response type: Internal Std (Ref 7), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

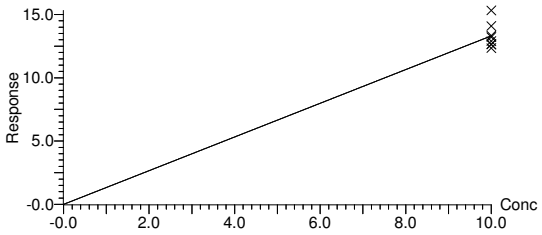
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

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Compound name: M3PFBS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	5.648	8229.168	10608.788	9.686	96.9	1.289	1814		0.87
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	5.646	7865.291	9703.493	9.269	92.7	1.234	2448		0.90
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	5.642	8290.930	10475.751	9.493	94.9	1.264	3281		0.90
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	5.642	7882.853	9973.558	9.506	95.1	1.265	2331		0.90
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	5.642	7795.047	10304.590	9.932	99.3	1.322	983		0.89
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	5.644	6891.068	9712.109	10.589	105.9	1.409	3273		0.85
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	5.642	6864.792	9150.648	10.015	100.1	1.333	1727		0.80
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	5.640	5678.970	8701.105	11.511	115.1	1.532	4802		0.75

Compound name: M3PFBS
Response Factor: 1.33101
RRF SD: 0.0976807, % Relative SD: 7.33884
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

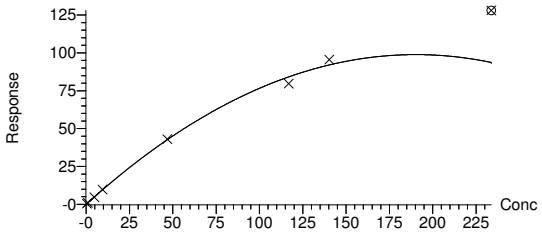
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
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Compound name: 4:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	6.821	4968.812	225.760	0.438	93.6	0.972	88	19	1.27
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	6.824	4592.236	514.244	1.081	115.6	1.198	65	24	1.08
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	6.824	5097.989	2398.560	4.582	98.0	1.006	544	157	0.85
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	6.821	5180.340	5121.366	9.763	104.4	1.057	90753	196	1.00
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	6.824	6179.839	26635.576	47.370	101.3	0.922	15556	2788	0.96
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	6.828	7656.591	61069.156	106.628	91.2	0.682	4350	3979	0.87
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	6.821	8371.602	79954.383	155.210	110.7	0.681	19470	5886	0.96
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	6.821	10853.056	138949.828			0.548	9623	6297	0.90

Compound name: 4:2FTS
Coefficient of Determination: R^2 = 0.998160
Calibration curve: -0.00273116 * x^2 + 1.03924 * x
Response type: Internal Std (Ref 9), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

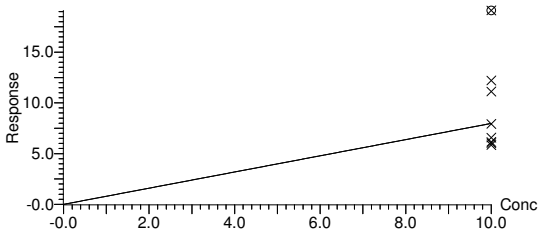
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Project Name	:	MADISON AVE MGP SITE-EC SAMP	Project Number	:	30030318
Instrument ID	:	LCMS02	Ical Ref	:	ICAL15922
Calibration dates	:	07/01/19 17:57 07/01/19 19:53			

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Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: M2-4:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	6.828	8229.168	4968.812	7.570	75.7	0.604	84986		0.92
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	6.825	7865.291	4592.236	7.320	73.2	0.584	83530		0.91
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	6.821	8290.930	5097.989	7.709	77.1	0.615	494		0.95
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	6.822	7882.853	5180.340	8.239	82.4	0.657	3066		0.96
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	6.825	7795.047	6179.839	9.940	99.4	0.793	855		0.98
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	6.825	6891.068	7656.591	13.931	139.3	1.111	131626		1.00
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	6.822	6864.792	8371.602	15.290	152.9	1.219	3292		0.95
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	6.822	5678.970	10853.056	23.961	239.6	1.911	6474		0.89

Compound name: M2-4:2FTS
Response Factor: 0.797585
RRF SD: 0.262248, % Relative SD: 32.8802
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

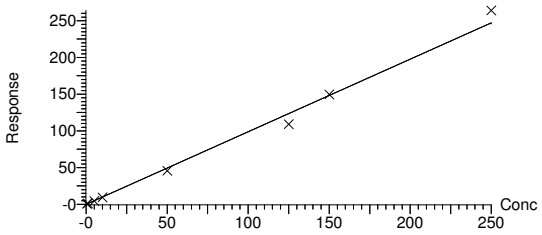
Client	: Arcadis of New York, Inc.	Lab Number	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: PFHxA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	6.905	82660.492	5710.761	0.699	139.8	1.382	388	31	0.95
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	6.901	75905.266	8903.114	1.187	118.7	1.173	586	34	1.03
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	6.898	81801.281	37335.285	4.617	92.3	0.913	2342	178	1.00
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	6.898	78659.211	74819.836	9.622	96.2	0.951	6707	379	1.02
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	6.901	79073.523	362981.531	46.437	92.9	0.918	22438	1660	1.01
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	6.905	75847.133	828363.750	110.483	88.4	0.874	50507	4049	0.98
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	6.902	72134.758	1079174.250	151.343	100.9	0.997	59626	3835	0.96
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	6.898	68833.016	1817505.250	267.112	106.8	1.056	82916	8040	0.98

Compound name: PFHxA
Coefficient of Determination: R^2 = 0.994283
Calibration curve: 0.988521 * x
Response type: Internal Std (Ref 11), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

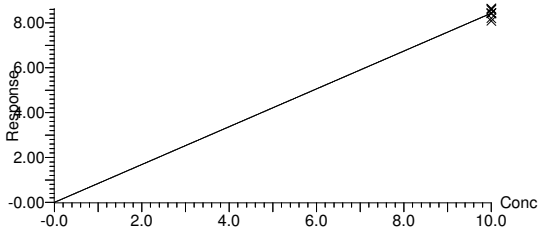
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: M5PFHxA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	6.905	97894.000	82660.492	10.016	100.2	0.844	5107		0.95
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	6.902	93843.227	75905.266	9.594	95.9	0.809	6172		0.97
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	6.898	95310.469	81801.281	10.180	101.8	0.858	17897		0.97
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	6.898	93436.430	78659.211	9.986	99.9	0.842	9938		0.99
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	6.901	91478.742	79073.523	10.253	102.5	0.864	15557		1.00
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	6.905	87937.320	75847.133	10.231	102.3	0.863	13573		0.94
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	6.902	87894.578	72134.758	9.735	97.3	0.821	7888		0.95
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	6.898	81610.086	68833.016	10.005	100.0	0.843	9945		0.96

Compound name: M5PFHxA
Response Factor: 0.843049
RRF SD: 0.0197784, % Relative SD: 2.34606
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

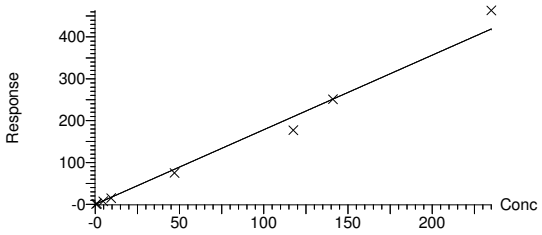
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Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: PFPeS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	7.232	6931.543	455.279	0.369	78.4	1.397	298	4671	0.90
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	7.225	6267.425	972.436	0.871	92.6	1.651	18701	75	1.08
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	7.222	6519.864	4711.245	4.054	86.3	1.537	85891	1164	0.99
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	7.222	6592.447	9669.135	8.229	87.5	1.560	184762	2022	1.01
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	7.222	6391.966	47963.250	42.100	89.6	1.597	6169	11901	1.07
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	7.225	6029.955	106929.086	99.492	84.7	1.509	13384	5772	0.99
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	7.222	5470.965	137491.688	140.999	100.0	1.782	9283	6726	1.03
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	7.212	4801.575	222423.750	259.897	110.6	1.971	34356	20709	1.10

Compound name: PFPeS
Coefficient of Determination: R^2 = 0.988723
Calibration curve: 1.78236 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

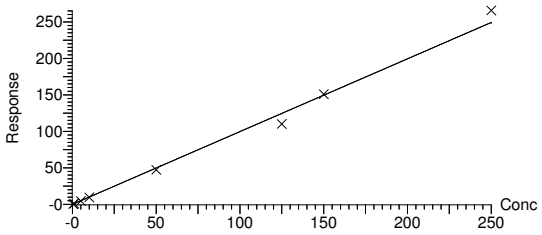
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: PFHpA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	8.198	107693.688	4691.317	0.437	87.4	0.871	431	91	0.98
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	8.194	98609.938	9491.594	0.965	96.5	0.963	934	299	1.01
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	8.191	103374.711	46923.191	4.553	91.1	0.908	2538	716	1.00
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	8.195	99529.227	95778.133	9.652	96.5	0.962	7587	3809	1.05
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	8.194	100213.727	474416.563	47.481	95.0	0.947	23705	8106	1.00
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	8.198	97121.492	1069475.000	110.444	88.4	0.881	47188	18306	1.00
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	8.195	90688.078	1369717.250	151.484	101.0	1.007	43529	26760	1.04
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	8.195	86540.719	2299362.250	266.485	106.6	1.063	106641	24930	1.00

Compound name: PFHpA
Coefficient of Determination: R^2 = 0.994827
Calibration curve: 0.997044 * x
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

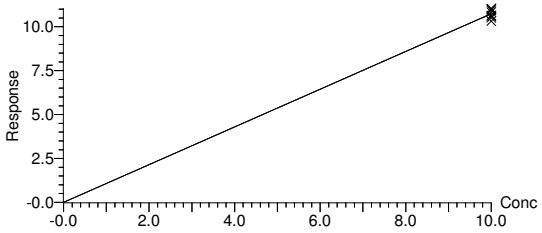
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
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Compound name: M4PFHpA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	8.198	97894.000	107693.688	10.242	102.4	1.100	15380		1.00
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	8.194	93843.227	98609.938	9.783	97.8	1.051	15366		0.99
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	8.191	95310.469	103374.711	10.098	101.0	1.085	17301		0.96
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	8.195	93436.430	99529.227	9.917	99.2	1.065	5987		1.02
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	8.194	91478.742	100213.727	10.199	102.0	1.095	11030		0.98
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	8.198	87937.320	97121.492	10.282	102.8	1.104	9448		0.99
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	8.195	87894.578	90688.078	9.606	96.1	1.032	5868		1.01
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	8.191	81610.086	86540.719	9.873	98.7	1.060	10322		1.06

Compound name: M4PFHpA
Response Factor: 1.07411
RRF SD: 0.0260901, % Relative SD: 2.42901
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

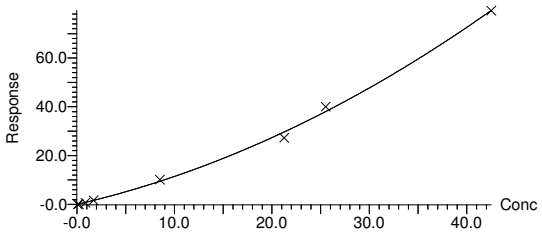
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: br-PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	8.128	6931.543	17.519	0.027	32.2	0.297	3		0.72
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	8.125	6267.425	56.477	0.098	57.4	0.530	9		0.85
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	8.111	6519.864	476.856	0.779	91.6	0.860	27	15	0.53
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	8.122	6592.447	1114.154	1.758	103.4	0.994	50	31	0.43
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	8.125	6391.966	6459.705	9.000	105.9	1.189	495	390	0.39
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	8.125	6029.955	16439.018	19.941	93.8	1.283	3219	251	0.44
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	8.122	5470.965	21914.219	26.474	103.8	1.571	3464	816	0.44
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	8.122	4801.575	38106.828	42.449	99.9	1.867	2122	748	0.44

Compound name: br-PFHxS
Coefficient of Determination: R^2 = 0.997844
Calibration curve: 0.0223244 * x^2 + 0.92197 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

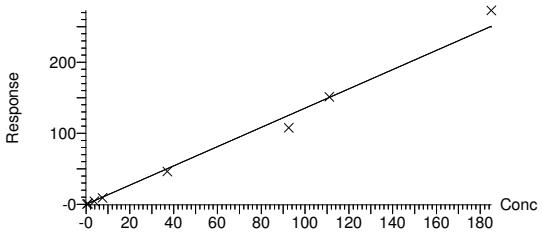
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: L-PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	8.356	6931.543	283.921	0.302	81.7	1.107	27	19	1.47
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	8.363	6267.425	546.263	0.643	87.0	1.178	101	9	0.92
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	8.352	6519.864	2924.847	3.312	89.5	1.212	261	194	1.10
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	8.363	6592.447	6009.956	6.731	91.0	1.232	392	312	0.99
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	8.356	6391.966	29571.266	34.156	92.3	1.250	3579	3885	1.05
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	8.363	6029.955	64866.965	79.422	85.9	1.163	19448	2167	1.00
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	8.360	5470.965	82758.789	111.681	100.6	1.363	20389	6425	1.03
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	8.356	4801.575	131023.039	201.462	108.9	1.475	11131	5108	1.09

Compound name: L-PFHxS
Coefficient of Determination: R^2 = 0.991468
Calibration curve: 1.35447 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

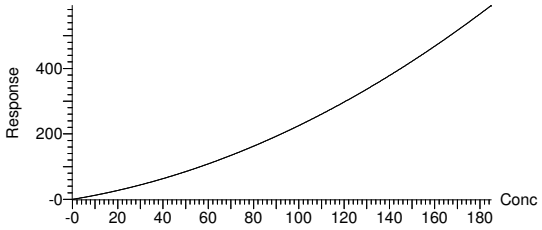
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Project Name	:	MADISON AVE MGP SITE-EC SAMP	Project Number	:	30030318
Instrument ID	:	LCMS02	Ical Ref	:	ICAL15922
Calibration dates	:	07/01/19 17:57 07/01/19 19:53			

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23		6931.543	301.440	0.330					
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58		6267.425	602.740	0.741					
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29		6519.864	3401.703	4.091					
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03		6592.447	7124.110	8.489					
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37		6391.966	36030.971	43.156					
6	I5639	IA2-537STD125	01-Jul-19	19:20:11		6029.955	81305.983	99.363					
7	I5640	IA2-537STD150	01-Jul-19	19:36:40		5470.965	104673.008	138.156					
8	I5641	IA2-537STD250	01-Jul-19	19:53:14		4801.575	169129.867	243.911					

Compound name: PFHxS
Coefficient of Determination: 0.000000
Calibration curve: 1.13822 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

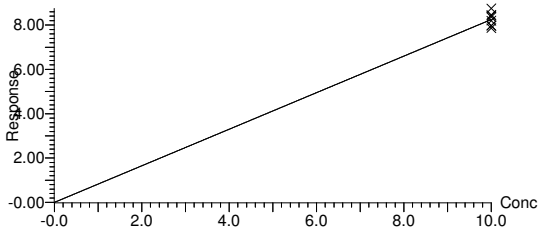
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
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Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: M3PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	8.363	8229.168	6931.543	10.211	102.1	0.842	143048		0.98
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	8.360	7865.291	6267.425	9.660	96.6	0.797	130523		0.96
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	8.352	8290.930	6519.864	9.533	95.3	0.786	1394		1.07
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	8.363	7882.853	6592.447	10.138	101.4	0.836	3127		0.94
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	8.356	7795.047	6391.966	9.940	99.4	0.820	264		1.05
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	8.360	6891.068	6029.955	10.608	106.1	0.875	300		1.06
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	8.360	6864.792	5470.965	9.661	96.6	0.797	675		1.02
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	8.353	5678.970	4801.575	10.250	102.5	0.846	88369		1.16

Compound name: M3PFHxS
Response Factor: 0.824919
RRF SD: 0.0303471, % Relative SD: 3.6788
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

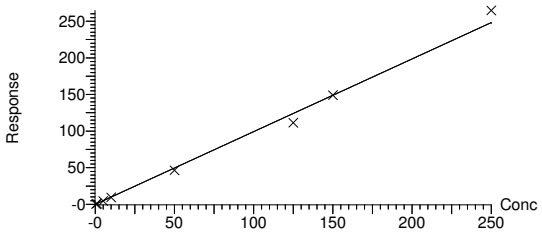
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Project Name	:	MADISON AVE MGP SITE-EC SAMP	Project Number	:	30030318
Instrument ID	:	LCMS02	Ical Ref	:	ICAL15922
Calibration dates	:	07/01/19 17:57 07/01/19 19:53			

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: br-PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23		96273.625							
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58		89290.797							
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29		96741.789							
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03		93890.203							
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37		93543.516						3	
6	I5639	IA2-537STD125	01-Jul-19	19:20:11		87982.359							
7	I5640	IA2-537STD150	01-Jul-19	19:36:40		86628.758							
8	I5641	IA2-537STD250	01-Jul-19	19:53:14		80389.586						4	

Compound name: L-PFOA
Coefficient of Determination: R^2 = 0.995328
Calibration curve: 0.992558 * x
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

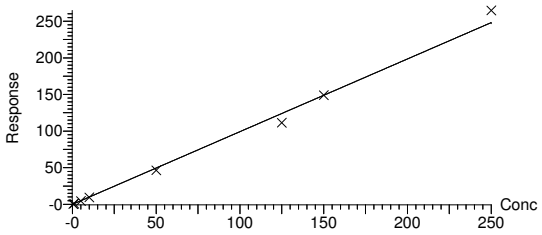
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: L-PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	9.152	96273.625	4556.052	0.477	95.4	0.946	204	82	1.09
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	9.149	89290.797	8922.305	1.007	100.7	0.999	330	190	1.02
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	9.145	96741.789	42840.941	4.462	89.2	0.886	2277	91915	0.97
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	9.156	93890.203	89546.094	9.609	96.1	0.954	4868	202906	0.95
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	9.145	93543.516	436320.063	46.993	94.0	0.933	14430	3442	1.04
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	9.149	87982.359	979379.313	112.150	89.7	0.891	27655	4417	1.04
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	9.149	86628.758	1290593.625	150.097	100.1	0.993	41979	8319	1.03
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	9.145	80389.586	2128080.500	266.706	106.7	1.059	45740	10850	1.08

Compound name: L-PFOA
Coefficient of Determination: R^2 = 0.995328
Calibration curve: 0.992558 * x
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

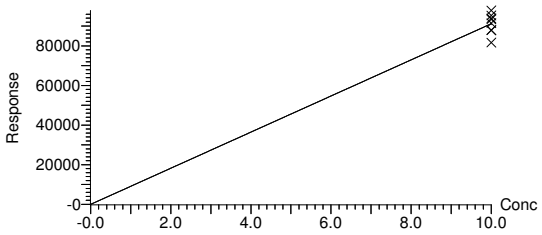
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: M2PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	9.152		97894.000	10.737	107.4	9789.400	10876		1.01
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	9.149		93843.227	10.293	102.9	9384.323	15140		1.00
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	9.145		95310.469	10.454	104.5	9531.047	11592		1.02
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	9.152		93436.430	10.248	102.5	9343.643	3487		1.07
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	9.145		91478.742	10.033	100.3	9147.874	4451		1.04
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	9.149		87937.320	9.645	96.4	8793.732	11579		1.03
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	9.149		87894.578	9.640	96.4	8789.458	6209		1.01
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	9.149		81610.086	8.951	89.5	8161.009	7699		0.95

Compound name: M2PFOA
Response Factor: 9117.56
RRF SD: 517.279, % Relative SD: 5.67343
Response type: External Std, Area
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

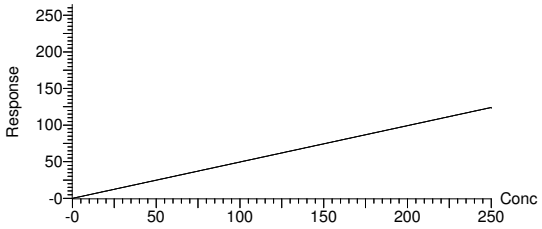
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Project Name	:	MADISON AVE MGP SITE-EC SAMP	Project Number	:	30030318
Instrument ID	:	LCMS02	Ical Ref	:	ICAL15922
Calibration dates	:	07/01/19 17:57 07/01/19 19:53			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23		96273.625	4556.052	0.477					
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58		89290.797	8922.305	1.007					
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29		96741.789	42840.941	4.462					
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03		93890.203	89546.094	9.609					
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37		93543.516	436320.063	46.993					
6	I5639	IA2-537STD125	01-Jul-19	19:20:11		87982.359	979379.313	112.150					
7	I5640	IA2-537STD150	01-Jul-19	19:36:40		86628.758	1290593.625	150.097					
8	I5641	IA2-537STD250	01-Jul-19	19:53:14		80389.586	2128080.500	266.706					

Compound name: PFOA
Coefficient of Determination: 0.000000
Calibration curve: 0.496279 * x
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

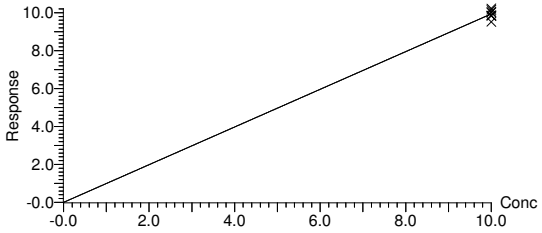
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Project Name	:	MADISON AVE MGP SITE-EC SAMP	Project Number	:	30030318
Instrument ID	:	LCMS02	Ical Ref	:	ICAL15922
Calibration dates	:	07/01/19 17:57 07/01/19 19:53			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: M8PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	9.152	97894.000	96273.625	9.898	99.0	0.983	10867		0.99
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	9.149	93843.227	89290.797	9.576	95.8	0.951	8454		0.98
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	9.145	95310.469	96741.789	10.216	102.2	1.015	11841		0.98
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	9.152	93436.430	93890.203	10.114	101.1	1.005	985		1.04
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	9.145	91478.742	93543.516	10.292	102.9	1.023	12395		1.00
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	9.149	87937.320	87982.359	10.070	100.7	1.001	9652		1.01
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	9.149	87894.578	86628.758	9.920	99.2	0.986	3066		1.01
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	9.146	81610.086	80389.586	9.914	99.1	0.985	5972		1.06

Compound name: M8PFOA
Response Factor: 0.993567
RRF SD: 0.0223163, % Relative SD: 2.24608
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

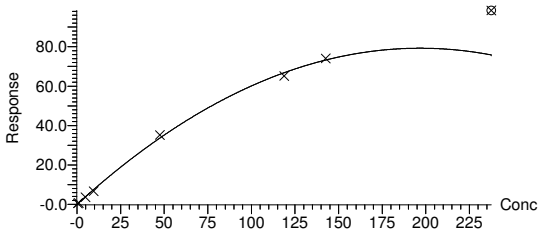
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: 6:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	9.118	4566.003	223.115	0.607	127.8	1.029	4		0.79
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	9.108	4225.765	284.253	0.836	88.0	0.708	6837		1.01
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	9.108	4496.702	1647.096	4.599	96.8	0.771	1169	22	0.86
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	9.115	4853.966	3275.691	8.560	90.1	0.710	67725	10420	0.85
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	9.105	5604.984	19744.219	50.087	105.4	0.742	426703	1608	1.00
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	9.108	6643.155	43303.801	113.811	95.8	0.549	10447	96223	0.95
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	9.109	7536.891	55869.324	146.648	102.9	0.520	639	787	0.94
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	9.105	9589.540	94398.539			0.414	1810	5739	0.97

Compound name: 6:2FTS
Coefficient of Determination: R^2 = 0.998331
Calibration curve: -0.0020486 * x^2 + 0.805905 * x
Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

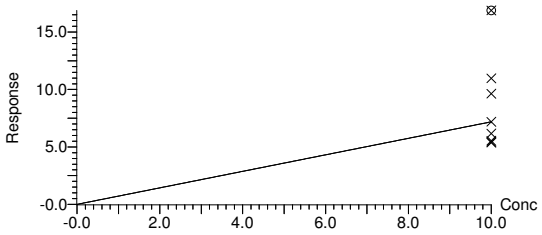
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Project Name	:	MADISON AVE MGP SITE-EC SAMP	Project Number	:	30030318
Instrument ID	:	LCMS02	Ical Ref	:	ICAL15922
Calibration dates	:	07/01/19 17:57 07/01/19 19:53			

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Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: M2-6:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	9.112	8229.168	4566.003	7.720	77.2	0.555	2320		1.00
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	9.108	7865.291	4225.765	7.475	74.8	0.537	94389		0.94
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	9.105	8290.930	4496.702	7.546	75.5	0.542	98013		0.99
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	9.112	7882.853	4853.966	8.567	85.7	0.616	356		1.09
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	9.105	7795.047	5604.984	10.004	100.0	0.719	1194		0.98
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	9.105	6891.068	6643.155	13.413	134.1	0.964	1038		1.08
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	9.109	6864.792	7536.891	15.275	152.8	1.098	117		0.99
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	9.105	5678.970	9589.540	23.494	234.9	1.689	1312		0.92

Compound name: M2-6:2FTS
Response Factor: 0.718746
RRF SD: 0.225623, % Relative SD: 31.3912
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

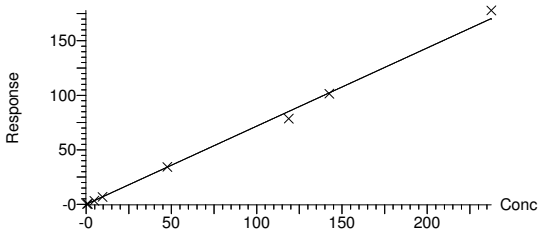
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: PFHpS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	9.244	9113.684	262.989	0.402	84.7	0.608	7	4	1.66
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	9.247	7983.817	389.356	0.680	71.6	0.513	31	10	0.71
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	9.241	8461.475	2759.168	4.546	95.7	0.686	192	61658	1.00
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	9.248	8499.692	5773.076	9.468	99.7	0.715	1686	4002	1.00
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	9.241	8043.667	27696.563	47.998	101.0	0.725	2194	631	0.97
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	9.244	7505.442	59041.625	109.657	92.3	0.662	4790	3372	0.99
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	9.244	7353.014	74525.094	141.283	99.1	0.711	1075	1598	1.01
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	9.241	6829.017	121441.258	247.891	104.4	0.749	5651	2556597	1.04

Compound name: PFHpS
Coefficient of Determination: R^2 = 0.997691
Calibration curve: 0.717376 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

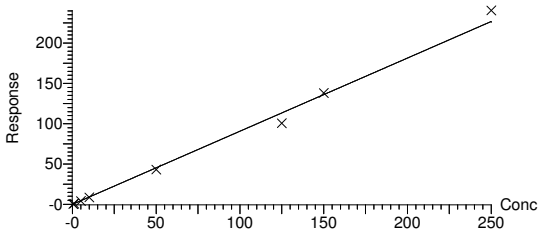
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: PFNA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	9.909	92137.875	4071.339	0.487	97.4	0.884	92	16552	1.04
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	9.909	84153.391	7976.006	1.045	104.5	0.948	177	225	1.04
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	9.913	89059.047	36730.324	4.546	90.9	0.825	1147	162588	0.93
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	9.909	87294.117	75069.625	9.479	94.8	0.860	1791	9372	0.98
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	9.905	85370.906	369406.156	47.694	95.4	0.865	9428	2372	0.93
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	9.905	82797.633	833277.563	110.929	88.7	0.805	16345	11133	0.98
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	9.905	78043.242	1077969.125	152.245	101.5	0.921	18877	12897	0.96
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	9.905	72739.594	1749314.375	265.075	106.0	0.962	28100	21096	0.94

Compound name: PFNA
Coefficient of Determination: R^2 = 0.995306
Calibration curve: 0.907251 * x
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

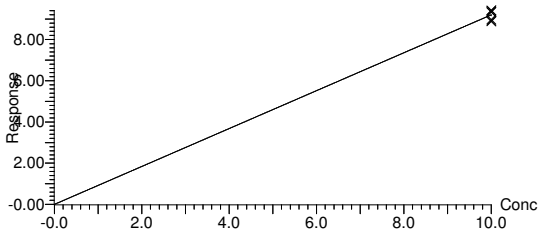
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: M9PFNA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	9.909	97894.000	92137.875	10.230	102.3	0.941	2843		0.99
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	9.909	93843.227	84153.391	9.746	97.5	0.897	14519		0.98
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	9.913	95310.469	89059.047	10.156	101.6	0.934	6369		0.93
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	9.909	93436.430	87294.117	10.154	101.5	0.934	2933		0.97
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	9.901	91478.742	85370.906	10.143	101.4	0.933	6972		0.99
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	9.905	87937.320	82797.633	10.233	102.3	0.942	2184		0.96
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	9.905	87894.578	78043.242	9.650	96.5	0.888	4887		0.93
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	9.905	81610.086	72739.594	9.687	96.9	0.891	5487		0.93

Compound name: M9PFNA
Response Factor: 0.920078
RRF SD: 0.023584, % Relative SD: 2.56326
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

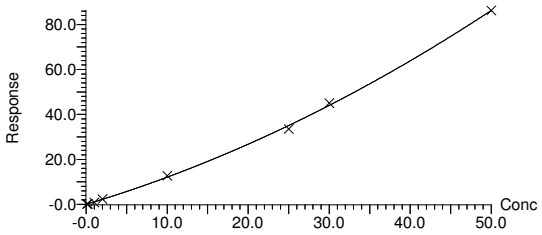
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: br-PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	9.779	9113.684	68.974	0.070	70.0	0.757	2	5	0.53
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	9.775	7983.817	176.398	0.204	102.0	1.105	2	27	0.35
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	9.703	8461.475	701.000	0.760	76.0	0.828	13	3505	2.75
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	9.775	8499.692	1994.406	2.118	105.9	1.173	68	18	0.35
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	9.766	8043.667	10231.612	10.465	104.6	1.272	43	181	0.36
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	9.771	7505.442	25192.975	24.121	96.5	1.343	247	77	0.37
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	9.771	7353.014	33128.301	30.555	101.8	1.502	39	68	0.38
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	9.771	6829.017	58913.109	50.004	100.0	1.725	1367	138	0.36

Compound name: br-PFOS
Coefficient of Determination: R^2 = 0.999075
Calibration curve: 0.0128916 * x^2 + 1.08062 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

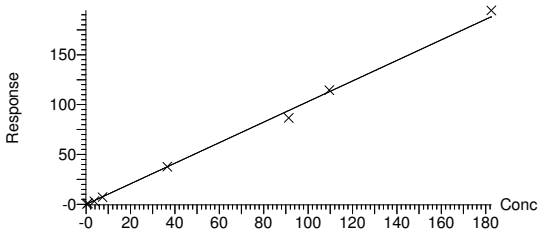
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: L-PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	9.964	9113.684	276.186	0.294	80.6	0.830	12		0.95
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	9.964	7983.817	724.177	0.880	120.6	1.243	12		0.95
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	9.964	8461.475	2718.503	3.117	85.4	0.880	111	44958	1.01
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	9.960	8499.692	6072.200	6.931	95.0	0.979	393	194	1.05
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	9.955	8043.667	30384.119	36.650	100.4	1.035	253	1749	0.98
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	9.955	7505.442	65066.020	84.111	92.2	0.950	1342	586	1.03
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	9.956	7353.014	84257.664	111.178	101.5	1.046	206	486	1.02
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	9.956	6829.017	132770.344	188.633	103.4	1.065	6516	947	1.01

Compound name: L-PFOS
Coefficient of Determination: R^2 = 0.997778
Calibration curve: 1.03068 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

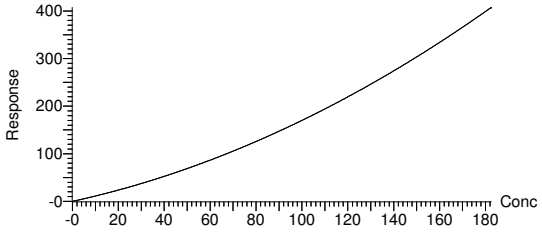
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23		9113.684	345.160	0.364					
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58		7983.817	900.575	1.084					
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29		8461.475	3419.503	3.877					
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03		8499.692	8066.606	9.049					
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37		8043.667	40615.731	47.114					
6	I5639	IA2-537STD125	01-Jul-19	19:20:11		7505.442	90258.995	108.232					
7	I5640	IA2-537STD150	01-Jul-19	19:36:40		7353.014	117385.965	141.733					
8	I5641	IA2-537STD250	01-Jul-19	19:53:14		6829.017	191683.453	238.637					

Compound name: PFOS
Coefficient of Determination: 0.000000
Calibration curve: 1.05565 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

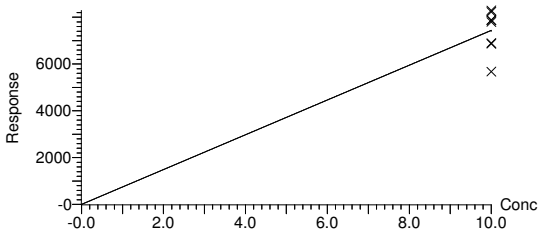
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: M4PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	9.964		8229.168	11.065	110.6	822.917	3318		0.90
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	9.964		7865.291	10.576	105.8	786.529	158063		0.98
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	9.964		8290.930	11.148	111.5	829.093	1942		0.97
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	9.960		7882.853	10.599	106.0	788.285	160880		0.98
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	9.955		7795.047	10.481	104.8	779.505	302		0.92
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	9.955		6891.068	9.266	92.7	689.107	490		0.98
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	9.956		6864.792	9.230	92.3	686.479	1337		1.07
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	9.956		5678.970	7.636	76.4	567.897	112544		1.03

Compound name: M4PFOS
Response Factor: 743.726
RRF SD: 89.3091, % Relative SD: 12.0083
Response type: External Std, Area
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

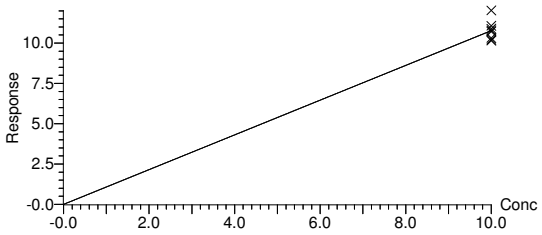
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: M8PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	9.960	8229.168	9113.684	10.283	102.8	1.107	188094		1.02
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	9.964	7865.291	7983.817	9.425	94.2	1.015	160872		0.95
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	9.964	8290.930	8461.475	9.476	94.8	1.021	175897		0.98
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	9.960	7882.853	8499.692	10.012	100.1	1.078	1152		0.96
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	9.956	7795.047	8043.667	9.581	95.8	1.032	416		0.96
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	9.956	6891.068	7505.442	10.113	101.1	1.089	1240		0.96
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	9.956	6864.792	7353.014	9.945	99.5	1.071	828		1.05
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	9.956	5678.970	6829.017	11.165	111.7	1.203	253		0.99

Compound name: M8PFOS
Response Factor: 1.07701
RRF SD: 0.0608513, % Relative SD: 5.65004
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

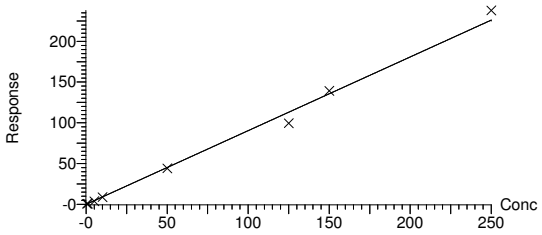
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: PFDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	10.5...	89403.563	3954.750	0.489	97.8	0.885	102	23	0.97
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	10.5...	83196.977	7064.525	0.939	93.9	0.849	151	176	1.04
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	10.5...	88894.461	34781.816	4.327	86.5	0.783	961	81	1.00
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	10.5...	85297.813	74595.898	9.672	96.7	0.875	1987	1007	0.89
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	10.5...	79647.898	350571.000	48.681	97.4	0.880	10310	8246	1.01
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	10.5...	76542.734	762358.625	110.158	88.1	0.797	20370	3494	1.02
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	10.5...	70286.641	979530.875	154.136	102.8	0.929	16211	7345	1.01
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	10.5...	66484.125	1581520.625	263.097	105.2	0.952	36913	3048	0.97

Compound name: PFDA
Coefficient of Determination: R^2 = 0.995312
Calibration curve: 0.904151 * x
Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

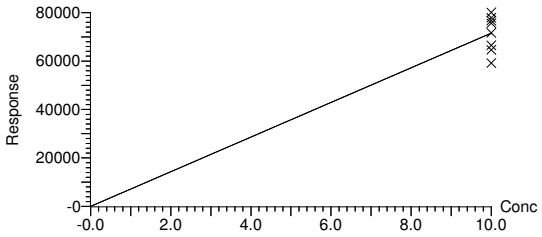
Client	: Arcadis of New York, Inc.	Lab Number	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: M2PFDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	10.5...		80079.516	11.196	112.0	8007.952	15353		0.94
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	10.5...		76676.766	10.720	107.2	7667.677	18635		0.91
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	10.5...		77891.875	10.890	108.9	7789.188	12616		0.98
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	10.5...		75604.555	10.570	105.7	7560.456	9504		0.91
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	10.5...		71662.531	10.019	100.2	7166.253	20243		1.02
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	10.5...		66549.375	9.304	93.0	6654.938	11626		1.01
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	10.5...		64591.344	9.031	90.3	6459.134	16912		1.01
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	10.5...		59141.133	8.269	82.7	5914.113	14165		0.97

Compound name: M2PFDA
Response Factor: 7152.46
RRF SD: 739.799, % Relative SD: 10.3433
Response type: External Std, Area
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

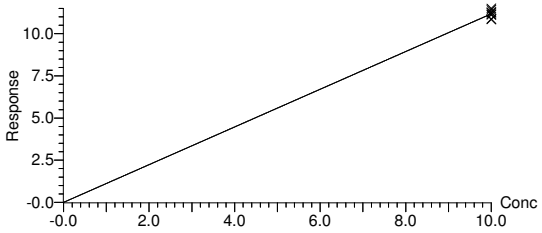
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: M6PFDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	10.5...	80079.516	89403.563	9.985	99.9	1.116	6183		0.93
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	10.5...	76676.766	83196.977	9.704	97.0	1.085	3423		0.90
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	10.5...	77891.875	88894.461	10.207	102.1	1.141	5177		0.97
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	10.5...	75604.555	85297.813	10.090	100.9	1.128	994		1.00
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	10.5...	71662.531	79647.898	9.940	99.4	1.111	1069		1.00
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	10.5...	66549.375	76542.734	10.287	102.9	1.150	5534		0.99
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	10.5...	64591.344	70286.641	9.732	97.3	1.088	4017		0.99
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	10.5...	59141.133	66484.125	10.054	100.5	1.124	3888		0.97

Compound name: M6PFDA
Response Factor: 1.11811
RRF SD: 0.0231125, % Relative SD: 2.06711
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

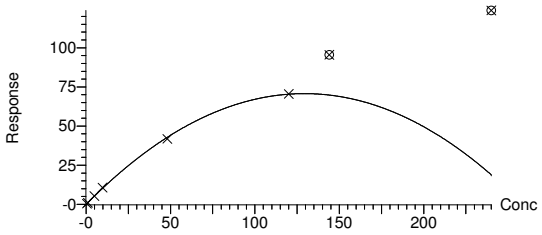
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: 8:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	10.5...	2603.371	133.117	0.468	97.5	1.065	136		1.00
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	10.5...	2465.874	254.794	0.948	98.7	1.076	9		1.78
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	10.5...	2720.764	1447.548	4.958	103.3	1.108	34670		1.04
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	10.5...	2969.014	3172.314	10.166	105.9	1.113	70063		0.90
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	10.5...	3312.228	13880.141	46.756	97.4	0.873	7409		1.09
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	10.5...	4183.437	29523.027	123.125	102.6	0.588	1546		1.06
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	10.5...	3869.740	36950.195			0.663	814664		1.03
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	10.5...	4693.819	58140.844			0.516	3263		0.96

Compound name: 8:2FTS
Coefficient of Determination: R^2 = 0.999541
Calibration curve: -0.00423066 * x^2 + 1.09407 * x
Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/y, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

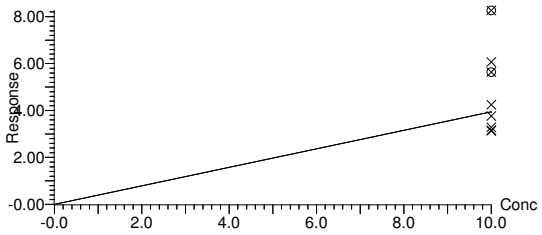
Client	: Arcadis of New York, Inc.	Lab Number	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: M2-8:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	10.5...	8229.168	2603.371	8.020	80.2	0.316	38		0.95
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	10.5...	7865.291	2465.874	7.948	79.5	0.314	47669		1.02
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	10.5...	8290.930	2720.764	8.320	83.2	0.328	55113		1.09
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	10.5...	7882.853	2969.014	9.549	95.5	0.377	57178		0.95
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	10.5...	7795.047	3312.228	10.772	107.7	0.425	63117		0.94
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	10.5...	6891.068	4183.437	15.391	153.9	0.607	488		1.03
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	10.5...	6864.792	3869.740	14.291	142.9	0.564	73772		1.10
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	10.5...	5678.970	4693.819	20.954	209.5	0.827	375		0.97

Compound name: M2-8:2FTS
Response Factor: 0.394445
RRF SD: 0.112695, % Relative SD: 28.5704
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

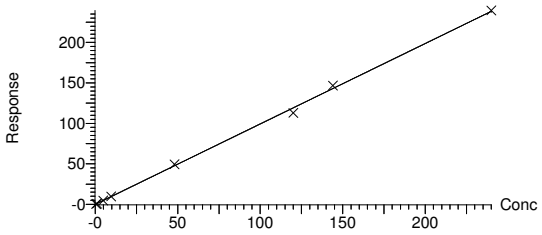
Client	: Arcadis of New York, Inc.	Lab Number	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: PFNS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	10.5...	9113.684	256.554	0.283	59.1	0.586	15	5007	0.96
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	10.5...	7983.817	632.865	0.798	83.1	0.826	343	13480	0.92
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	10.5...	8461.475	3972.886	4.728	98.5	0.978	2398	63990	0.94
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	10.5...	8499.692	8396.533	9.947	103.6	1.029	193297	143772	0.87
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	10.5...	8043.667	39739.238	49.744	103.6	1.029	1521	15725	0.91
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	10.5...	7505.442	84682.344	113.604	94.7	0.940	29269	1378030	0.90
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	10.5...	7353.014	107787.945	147.599	102.5	1.018	8283	12039	0.92
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	10.5...	6829.017	163548.141	241.137	100.5	0.998	25818	9300	1.02

Compound name: PFNS
Coefficient of Determination: R^2 = 0.998876
Calibration curve: 0.993168 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

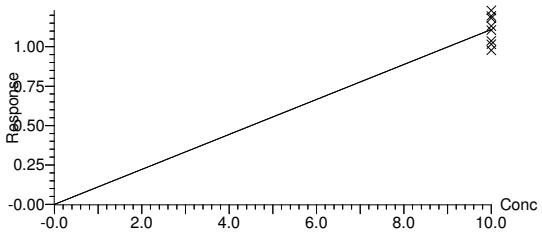
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: d3-NMeFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	10.9...	80079.516	8131.109	9.151	91.5	0.102	430		1.02
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	10.9...	76676.766	7493.462	8.808	88.1	0.098	435		1.10
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	10.9...	77891.875	8084.063	9.354	93.5	0.104	394		1.06
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	10.9...	75604.555	8356.476	9.961	99.6	0.111	728		0.97
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	10.9...	71662.531	8110.640	10.200	102.0	0.113	828		0.98
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	10.9...	66549.375	8189.774	11.091	110.9	0.123	177		1.15
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	10.9...	64591.344	7724.891	10.779	107.8	0.120	435		1.01
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	10.9...	59141.133	6992.771	10.656	106.6	0.118	128314		1.10

Compound name: d3-NMeFOSAA
Response Factor: 0.110957
RRF SD: 0.00921561, % Relative SD: 8.30556
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

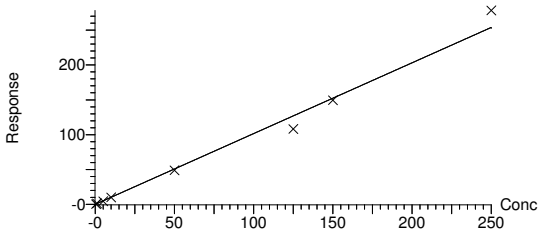
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: NMeFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	10.9...	8131.109	419.158	0.508	101.5	1.031	345	253	1.40
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	10.9...	7493.462	948.171	1.246	124.6	1.265	52	8190	0.99
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	10.9...	8084.063	3495.317	4.257	85.1	0.865	547	136	0.90
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	10.9...	8356.476	8292.636	9.770	97.7	0.992	471	201	0.97
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	10.9...	8110.640	39598.219	48.067	96.1	0.976	1100	520	1.04
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	10.9...	8189.774	88525.258	106.419	85.1	0.865	2180	1246	1.04
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	10.9...	7724.891	115517.039	147.224	98.1	0.997	2014	1316	1.06
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	10.9...	6992.771	194622.734	274.011	109.6	1.113	3540	1755	1.15

Compound name: NMeFOSAA
Coefficient of Determination: R^2 = 0.990705
Calibration curve: 1.01573 * x
Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

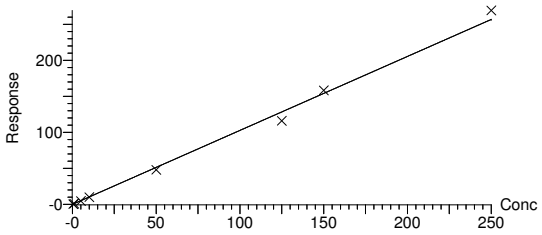
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

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Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
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Compound name: PFUnA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.092	80298.875	3852.565	0.467	93.4	0.960	76	8590	0.95
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.087	74232.297	7279.057	0.955	95.5	0.981	184	20523	0.89
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.083	79888.063	36471.609	4.446	88.9	0.913	1173	108543	0.90
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.078	77301.000	77217.578	9.728	97.3	0.999	2064	208278	0.98
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.073	73369.703	352599.469	46.799	93.6	0.961	5746	3306	0.99
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.073	64699.145	749201.438	112.765	90.2	0.926	11934	3859	0.99
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.073	60155.914	952454.938	154.184	102.8	1.056	15557	4688	1.01
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.073	56980.367	1533954.250	262.156	104.9	1.077	14872	8400	0.98

Compound name: PFUnA
Coefficient of Determination: R^2 = 0.996210
Calibration curve: 1.0269 * x
Response type: Internal Std (Ref 43), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

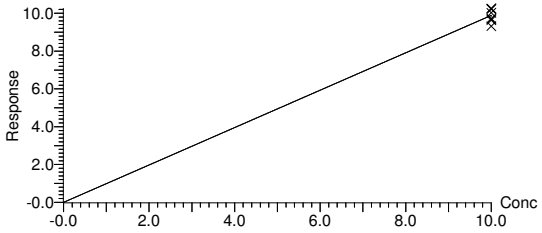
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: M7-PFUDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.093	80079.516	80298.875	10.142	101.4	1.003	5044		0.90
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.088	76676.766	74232.297	9.792	97.9	0.968	2093		0.92
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.083	77891.875	79888.063	10.373	103.7	1.026	2878		0.91
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.078	75604.555	77301.000	10.341	103.4	1.022	6248		0.97
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.073	71662.531	73369.703	10.355	103.6	1.024	1998		0.99
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.073	66549.375	64699.145	9.833	98.3	0.972	1187101		0.98
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.073	64591.344	60155.914	9.420	94.2	0.931	2509		0.98
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.073	59141.133	56980.367	9.745	97.4	0.963	6194		0.94

Compound name: M7-PFUDA
Response Factor: 0.988718
RRF SD: 0.0349623, % Relative SD: 3.53613
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

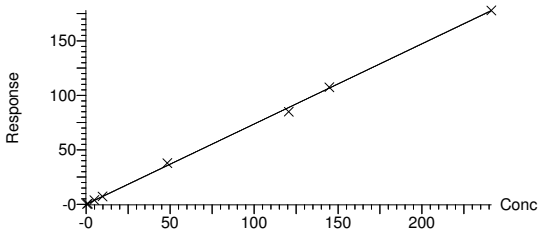
Client	: Arcadis of New York, Inc.	Lab Number	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: PFDS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.103	9113.684	215.321	0.321	66.5	0.490	4584	7550	1.25
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.103	7983.817	454.460	0.773	80.1	0.590	11182	12517	0.76
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.093	8461.475	3439.658	5.518	114.4	0.843	1040	258	0.96
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.093	8499.692	6220.360	9.934	102.9	0.758	1677	127359	0.93
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.088	8043.667	30540.459	51.540	106.8	0.787	4414	1474	0.89
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.088	7505.442	63741.094	115.283	95.6	0.704	5268	3329	0.89
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.088	7353.014	79026.539	145.892	100.8	0.742	6340	1608564	0.90
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.088	6829.017	121511.289	241.536	100.1	0.738	2448462	12151	0.88

Compound name: PFDS
Coefficient of Determination: R^2 = 0.998790
Calibration curve: 0.736676 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

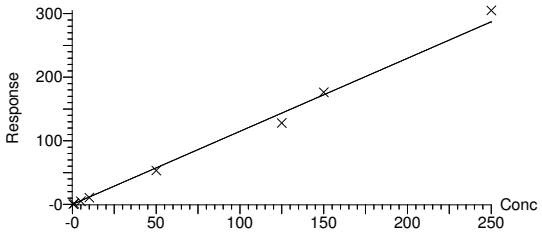
Client	: Arcadis of New York, Inc.	Lab Number	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: FOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	10.9...	25901.314	1109.858	0.373	74.6	0.857	24623		0.94
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	10.9...	25152.484	2551.589	0.883	88.3	1.014	56822		1.07
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	10.9...	25866.703	12900.008	4.342	86.8	0.997	1649	8	0.96
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	10.9...	24688.834	25772.852	9.090	90.9	1.044	1380	19	1.05
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	10.9...	24116.709	128646.336	46.448	92.9	1.067	5591	23359	1.12
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	10.9...	22877.146	292405.250	111.293	89.0	1.023	10602	454	0.97
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	10.9...	21293.096	375537.875	153.567	102.4	1.176	9315	148	1.00
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	10.9...	20238.887	617127.125	265.504	106.2	1.220	10107	365	0.99

Compound name: FOSA
Coefficient of Determination: R^2 = 0.994785
Calibration curve: 1.14846 * x
Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

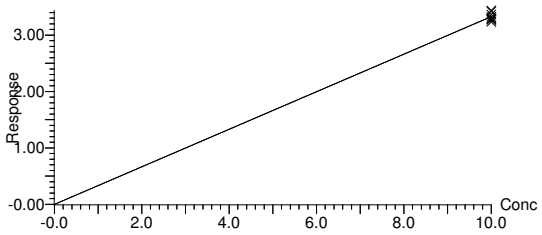
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: M8FOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	10.9...	80079.516	25901.314	9.719	97.2	0.323	857		1.07
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	10.9...	76676.766	25152.484	9.857	98.6	0.328	498016		0.96
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	10.9...	77891.875	25866.703	9.979	99.8	0.332	2870		1.07
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	10.9...	75604.555	24688.834	9.813	98.1	0.327	3028		1.03
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	10.9...	71662.531	24116.709	10.113	101.1	0.337	1974		1.06
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	10.9...	66549.375	22877.146	10.330	103.3	0.344	444952		1.02
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	10.9...	64591.344	21293.096	9.906	99.1	0.330	3114		0.97
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	10.9...	59141.133	20238.887	10.283	102.8	0.342	385808		1.06

Compound name: M8FOSA
Response Factor: 0.332785
RRF SD: 0.00739072, % Relative SD: 2.22087
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

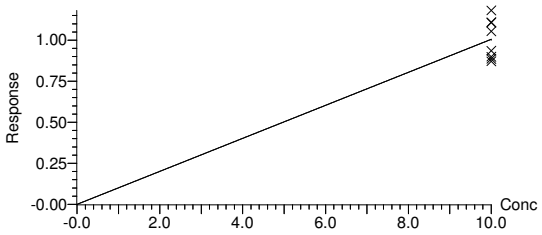
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: d5-NEtFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.208	80079.516	6972.096	8.660	86.6	0.087	689		1.10
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.203	76676.766	6795.285	8.815	88.1	0.089	151		1.10
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.203	77891.875	7283.549	9.301	93.0	0.094	244		0.91
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.198	75604.555	6799.789	8.946	89.5	0.090	381		1.01
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.193	71662.531	7551.751	10.481	104.8	0.105	294		1.04
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.193	66549.375	7386.163	11.039	110.4	0.111	349		1.07
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.193	64591.344	7149.068	11.009	110.1	0.111	283		1.04
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.193	59141.133	6986.069	11.749	117.5	0.118	409		1.04

Compound name: d5-NEtFOSAA
Response Factor: 0.100539
RRF SD: 0.0121309, % Relative SD: 12.0659
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

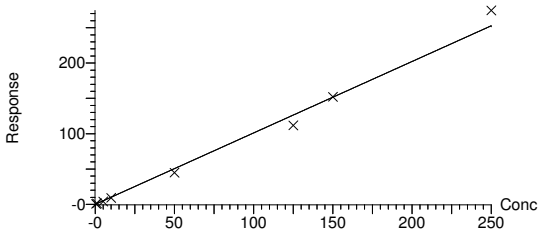
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: NEtFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.213	6972.096	387.379	0.549	109.9	1.111	20	4937	1.15
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.218	6795.285	809.999	1.179	117.9	1.192	33	237	1.06
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.208	7283.549	2955.046	4.012	80.2	0.811	105	20988	1.12
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.208	6799.789	6225.610	9.054	90.5	0.916	169	323	1.03
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.203	7551.751	33831.453	44.304	88.6	0.896	652	859	1.02
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.203	7386.163	82534.102	110.506	88.4	0.894	1576	933	1.03
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.203	7149.068	108734.508	150.414	100.3	1.014	3607	1144	1.03
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.203	6986.069	191779.578	271.481	108.6	1.098	3430	1576	0.99

Compound name: NEtFOSAA
Coefficient of Determination: R^2 = 0.992212
Calibration curve: 1.01118 * x
Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

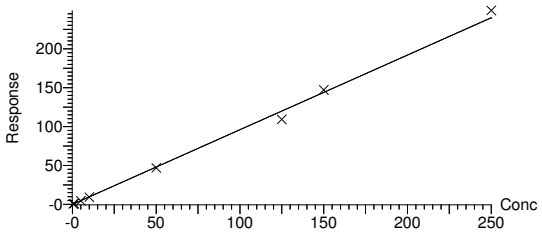
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Project Name	:	MADISON AVE MGP SITE-EC SAMP	Project Number	:	30030318
Instrument ID	:	LCMS02	Ical Ref	:	ICAL15922
Calibration dates	:	07/01/19 17:57 07/01/19 19:53			

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: PFDoA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.564	85334.609	4213.817	0.515	102.9	0.988	109	51	0.84
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.560	77038.258	7534.214	1.019	101.9	0.978	189	6	0.78
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.552	82862.805	37151.672	4.672	93.4	0.897	716	297	0.93
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.552	82350.813	75754.633	9.586	95.9	0.920	2481	429	0.92
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.548	79468.102	371732.094	48.745	97.5	0.936	7701	1769	0.92
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.548	74371.125	813348.313	113.963	91.2	0.875	14632	1672	0.91
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.548	72531.453	1066659.875	153.247	102.2	0.980	13666	2587	0.94
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.548	70079.352	1746858.875	259.753	103.9	0.997	22889	4366	0.91

Compound name: PFDoA
Coefficient of Determination: R^2 = 0.997395
Calibration curve: 0.959638 * x
Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

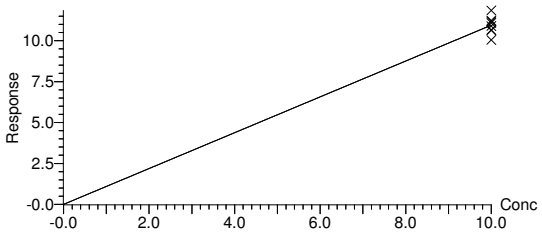
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: MPFDOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.560	80079.516	85334.609	9.734	97.3	1.066	3442		0.98
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.556	76676.766	77038.258	9.178	91.8	1.005	2637		0.95
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.552	77891.875	82862.805	9.718	97.2	1.064	2518		0.95
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.552	75604.555	82350.813	9.950	99.5	1.089	2952		0.93
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.548	71662.531	79468.102	10.130	101.3	1.109	2935		0.92
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.548	66549.375	74371.125	10.208	102.1	1.118	4675		0.93
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.548	64591.344	72531.453	10.258	102.6	1.123	3400		0.93
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.548	59141.133	70079.352	10.824	108.2	1.185	884		0.93

Compound name: MPFDOA
Response Factor: 1.09472
RRF SD: 0.0529044, % Relative SD: 4.83271
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

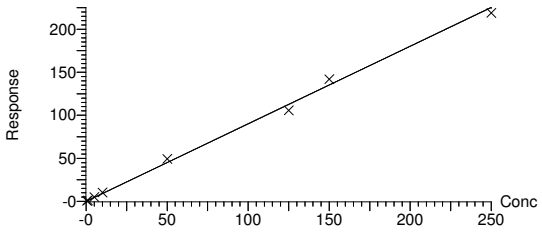
Client	: Arcadis of New York, Inc.	Lab Number	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: PFTrDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.972	85334.609	5049.431	0.657	131.3	1.183	92	14	0.92
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.972	77038.258	9468.866	1.364	136.4	1.229	191	33	0.78
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.968	82862.805	41336.715	5.536	110.7	0.998	691	189	0.83
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.968	82350.813	85697.555	11.548	115.5	1.041	1410	244	0.85
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.964	79468.102	391242.813	54.633	109.3	0.985	7356	1258	0.82
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.964	74371.125	786034.688	117.285	93.8	0.846	9284	1183	0.85
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.964	72531.453	1029301.000	157.478	105.0	0.946	11782	2580	0.87
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.964	70079.352	1534590.000	243.000	97.2	0.876	14893	3911	0.82

Compound name: PFTrDA
Coefficient of Determination: R^2 = 0.996569
Calibration curve: 0.901148 * x
Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

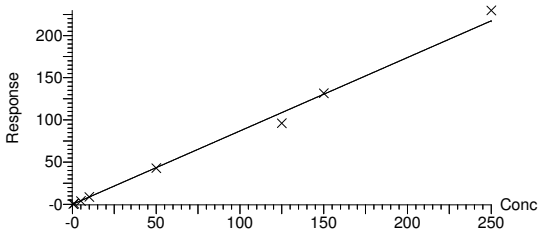
Client	: Arcadis of New York, Inc.	Lab Number	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: PFTA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	12.3...	69197.125	2899.898	0.482	96.4	0.838	101	153	0.85
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	12.3...	65113.305	5856.875	1.034	103.4	0.899	181	16514	0.96
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	12.3...	71609.664	28473.520	4.572	91.4	0.795	821	69233	0.91
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	12.3...	66636.852	57992.625	10.007	100.1	0.870	1842	936	0.84
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	12.3...	66026.500	282667.031	49.225	98.4	0.856	4366	3538	0.87
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	12.3...	65481.293	629957.188	110.617	88.5	0.770	12389	4675	0.84
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	12.3...	62970.875	829287.500	151.423	100.9	0.878	17158	7928	0.84
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	12.3...	59456.906	1365871.875	264.140	105.7	0.919	22721	6402	0.87

Compound name: PFTA
Coefficient of Determination: R^2 = 0.995624
Calibration curve: 0.869706 * x
Response type: Internal Std (Ref 53), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

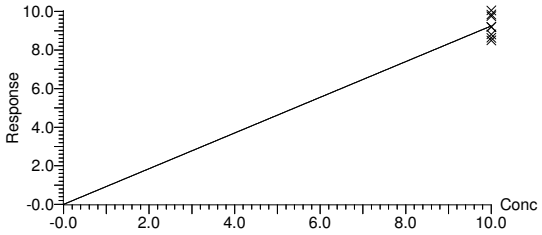
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: M2PFTEDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	12.3...	80079.516	69197.125	9.342	93.4	0.864	5757		0.85
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	12.3...	76676.766	65113.305	9.181	91.8	0.849	2028		0.83
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	12.3...	77891.875	71609.664	9.939	99.4	0.919	5143		0.89
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	12.3...	75604.555	66636.852	9.529	95.3	0.881	3285		0.94
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	12.3...	71662.531	66026.500	9.961	99.6	0.921	4481		0.89
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	12.3...	66549.375	65481.293	10.638	106.4	0.984	5169		0.85
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	12.3...	64591.344	62970.875	10.540	105.4	0.975	2330		0.84
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	12.3...	59141.133	59456.906	10.869	108.7	1.005	3421		0.88

Compound name: M2PFTEDA
Response Factor: 0.924948
RRF SD: 0.0583379, % Relative SD: 6.30715
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

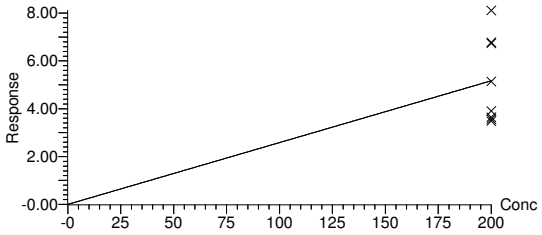
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: M3HFPO-DA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	7.339	97894.000	34138.469	134.898	67.4	0.017	661432		1.02
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	7.335	93843.227	33407.383	137.708	68.9	0.018	15617		0.99
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	7.328	95310.469	34709.828	140.874	70.4	0.018	671490		1.06
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	7.332	93436.430	36471.293	150.992	75.5	0.020	708647		1.02
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	7.328	91478.742	46995.914	198.728	99.4	0.026	12989		1.10
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	7.325	87937.320	59274.879	260.745	130.4	0.034	1068289		1.17
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	7.322	87894.578	59580.410	262.217	131.1	0.034	1067243		1.21
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	7.308	81610.086	66211.063	313.838	156.9	0.041	1081279		1.34

Compound name: M3HFPO-DA
Response Factor: 0.0258512
RRF SD: 0.00907924, % Relative SD: 35.1211
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

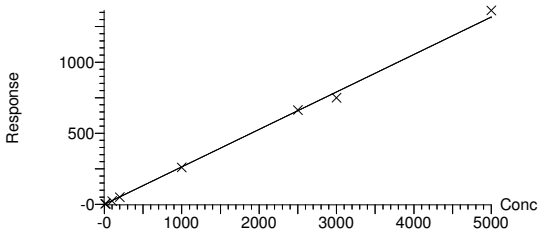
Client	: Arcadis of New York, Inc.	Lab Number	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: HFPO-DA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	7.337	34138.469	437.757	9.732	97.3	0.256	9491	21	1.15
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	7.337	33407.383	747.271	16.977	84.9	0.224	1307	46	1.01
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	7.330	34709.828	4156.163	90.881	90.9	0.239	89423	34799	1.12
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	7.331	36471.293	9167.349	190.776	95.4	0.251	191899	1170	1.11
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	7.330	46995.914	60897.352	983.489	98.3	0.259	1269832	486831	1.13
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	7.323	59274.879	196791.125	2519.801	100.8	0.266	13898	3482	1.32
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	7.324	59580.410	223125.813	2842.351	94.7	0.250	127165	17545	1.28
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	7.306	66211.063	451536.531	5175.993	103.5	0.273	121518	26618	1.56

Compound name: HFPO-DA
Coefficient of Determination: R^2 = 0.998553
Calibration curve: 0.263511 * x
Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

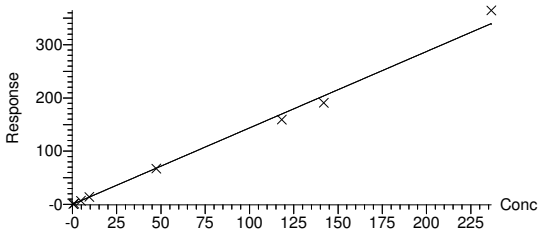
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: ADONA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	8.384	96273.625	5574.746	0.403	85.2	1.224	110462		0.90
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	8.377	89290.797	11514.171	0.898	94.9	1.363	1567		0.99
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	8.373	96741.789	63720.441	4.585	96.9	1.392	5643		0.98
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	8.380	93890.203	130322.734	9.661	102.1	1.467	5279		0.99
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	8.377	93543.516	627850.750	46.717	98.7	1.419	28143		0.97
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	8.380	87982.359	1400262.250	110.776	93.7	1.346	30649		0.99
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	8.377	86628.758	1653982.000	132.893	93.6	1.345	91562		1.02
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	8.377	80389.586	2930639.750	253.744	107.3	1.541	54958		0.98

Compound name: ADONA
Coefficient of Determination: R^2 = 0.995726
Calibration curve: 1.4367 * x
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

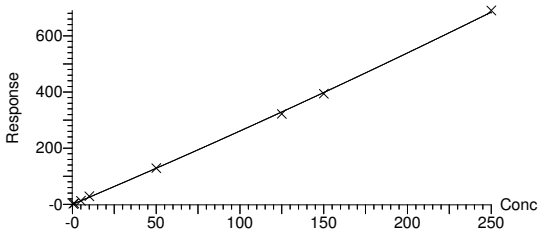
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: PFHxDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	12.7...	21825.291	3155.532	0.572	114.3	2.892	205		1.03
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	12.7...	20155.680	6588.839	1.292	129.2	3.269	392		0.96
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	12.7...	22207.254	28976.256	5.150	103.0	2.610	1936		1.05
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	12.7...	20781.037	60167.711	11.405	114.1	2.895	4227		1.07
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	12.7...	21450.691	277563.375	50.324	100.6	2.588	11141		1.03
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	12.7...	18900.529	608760.813	122.388	97.9	2.577	24045		1.03
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	12.7...	18283.150	719713.563	148.353	98.9	2.624	44182		1.00
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	12.7...	17299.199	1194794.375	252.032	100.8	2.763	65056		1.05

Compound name: PFHxDA
Coefficient of Determination: R^2 = 0.999358
Calibration curve: 0.000838448 * x^2 + 2.52906 * x
Response type: Internal Std (Ref 59), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

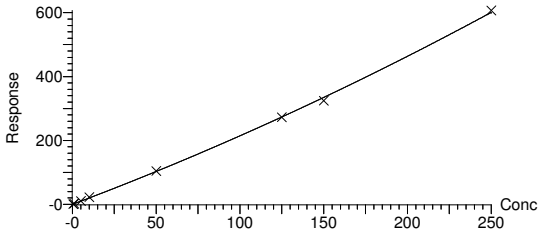
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
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Compound name: PFODA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	12.9...	21825.291	2362.137	0.548	109.6	2.165	111		1.43
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	12.9...	20155.680	4802.961	1.206	120.6	2.383	212		0.99
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	12.9...	22207.254	22868.643	5.195	103.9	2.060	1078		1.00
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	12.9...	20781.037	46901.273	11.326	113.3	2.257	1840		0.95
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	12.9...	21450.691	223735.219	50.624	101.2	2.086	8238		0.97
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	12.9...	18900.529	514803.281	124.515	99.6	2.179	19897		0.95
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	12.9...	18283.150	593979.313	146.043	97.4	2.166	21421		0.94
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	12.9...	17299.199	1049976.875	252.147	100.9	2.428	34610		0.92

Compound name: PFODA
Coefficient of Determination: R^2 = 0.999407
Calibration curve: 0.00172088 * x^2 + 1.97321 * x
Response type: Internal Std (Ref 59), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

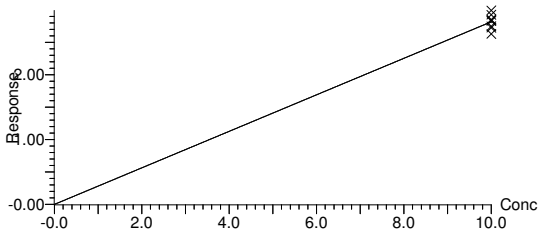
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: M2PFHxDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	12.7...	80079.516	21825.291	9.672	96.7	0.273	3626		1.01
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	12.7...	76676.766	20155.680	9.329	93.3	0.263	10680		0.97
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	12.7...	77891.875	22207.254	10.118	101.2	0.285	6871		1.02
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	12.7...	75604.555	20781.037	9.754	97.5	0.275	4916		1.05
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	12.7...	71662.531	21450.691	10.623	106.2	0.299	10729		0.91
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	12.7...	66549.375	18900.529	10.079	100.8	0.284	15493		1.02
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	12.7...	64591.344	18283.150	10.045	100.5	0.283	6520		0.99
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	12.7...	59141.133	17299.199	10.380	103.8	0.293	10129		1.09

Compound name: M2PFHxDA
Response Factor: 0.281785
RRF SD: 0.0115359, % Relative SD: 4.09388
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

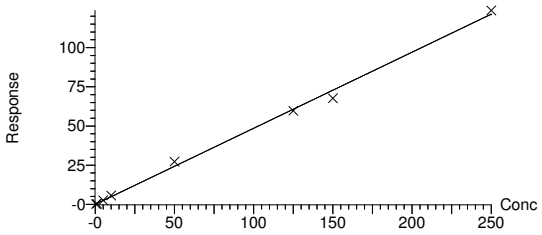
Client	: Arcadis of New York, Inc.	Lab Number	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: PFDoS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.976	9113.684	123.619	0.279	55.9	0.271	29	17	0.81
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.960	7983.817	348.624	0.899	89.9	0.437	46	2593	0.90
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.960	8461.475	2265.340	5.514	110.3	0.535	1928	12	0.81
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.960	8499.692	4781.683	11.586	115.9	0.563	79685	38672	0.89
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.951	8043.667	21873.611	56.007	112.0	0.544	1042	163023	0.95
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.955	7505.442	44840.586	123.046	98.4	0.478	708028	2430	0.89
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.955	7353.014	49730.980	139.294	92.9	0.451	7500	3401	0.89
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.951	6829.017	84510.633	254.874	101.9	0.495	10640	7315	0.94

Compound name: PFDoS
Coefficient of Determination: R^2 = 0.996484
Calibration curve: 0.485543 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

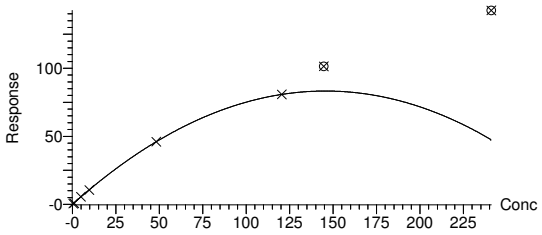
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: 10:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.577	2603.371	138.396	0.465	96.5	1.103	2704		1.01
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.581	2465.874	219.391	0.780	80.9	0.923	4047		0.64
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.565	2720.764	1529.086	4.998	103.7	1.166	417		0.98
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.565	2969.014	3166.504	9.641	100.0	1.106	335		0.90
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.561	3312.228	15263.286	48.282	100.2	0.956	1532		0.95
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.565	4183.437	33794.242	120.342	99.9	0.670	2541		0.87
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.565	3869.740	39247.555			0.701	704444		0.89
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.561	4693.819	66895.125			0.591	1182839		0.94

Compound name: 10:2FTS
Coefficient of Determination: R^2 = 0.999495
Calibration curve: -0.0039296 * x^2 + 1.14416 * x
Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

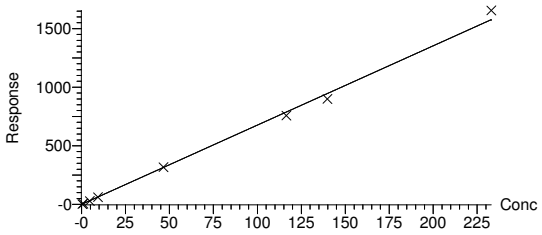
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: 9CL-PF3ONS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	10.3...	9113.684	1918.917	0.311	66.8	4.518	30633		0.95
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	10.3...	7983.817	4518.121	0.836	89.7	6.072	254		0.99
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	10.3...	8461.475	24208.213	4.228	90.7	6.139	785		0.95
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	10.3...	8499.692	52572.004	9.141	98.1	6.636	4048		0.97
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	10.311	8043.667	255807.594	46.999	100.9	6.825	13566		0.94
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	10.311	7505.442	569537.938	112.145	96.3	6.514	10462		0.95
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	10.311	7353.014	661756.250	133.004	95.1	6.438	46588		0.96
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	10.311	6829.017	1130336.250	244.614	105.0	7.104	23103		0.95

Compound name: 9CL-PF3ONS
Coefficient of Determination: R^2 = 0.997802
Calibration curve: 6.76657 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

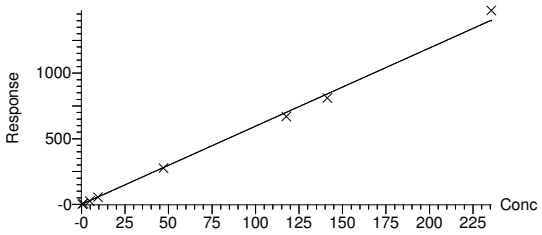
Client	: Arcadis of New York, Inc.	Lab Number	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: 11CL-PFOUdS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.363	9113.684	1880.323	0.346	73.5	4.380	142		1.02
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.358	7983.817	3757.990	0.790	83.8	4.997	53891		1.02
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.353	8461.475	21914.848	4.345	92.3	5.499	5894		1.00
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.353	8499.692	46785.359	9.235	98.0	5.843	2104		0.97
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.348	8043.667	221513.016	46.204	98.1	5.847	13843		0.99
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.348	7505.442	502568.250	112.346	95.4	5.687	17748		0.99
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.353	7353.014	595565.563	135.895	96.2	5.732	16518		0.92
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.348	6829.017	1009548.250	248.032	105.3	6.277	43660		0.98

Compound name: 11CL-PFOUdS
Coefficient of Determination: R^2 = 0.997737
Calibration curve: 5.96021 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

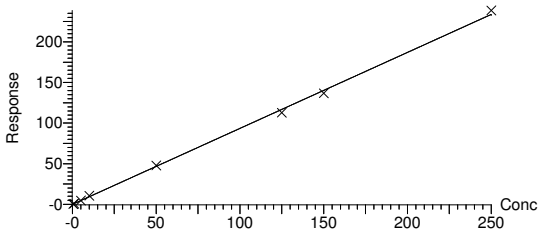
Client	: Arcadis of New York, Inc.	Lab Number	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: NMeFOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.549	7918.882	313.514	0.423	84.7	0.792	5383	37	1.11
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.549	8155.033	747.418	0.980	98.0	0.917	12304	7763	0.91
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.541	8364.774	3935.583	5.032	100.6	0.941	2052	42085	0.99
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.541	8182.690	8715.477	11.391	113.9	1.065	201	90370	0.99
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.537	8533.415	40951.434	51.323	102.6	0.960	1309	1570	0.97
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.537	8252.962	93166.859	120.730	96.6	0.903	2845	2053	0.98
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.537	8000.675	109516.180	146.392	97.6	0.913	6436	7426	0.99
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.537	7946.232	189638.234	255.229	102.1	0.955	12388	3416	0.99

Compound name: NMeFOSA
Coefficient of Determination: R^2 = 0.998983
Calibration curve: 0.935051 * x
Response type: Internal Std (Ref 65), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

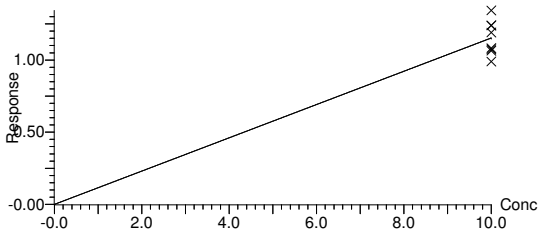
Client	: Arcadis of New York, Inc.	Lab Number	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: d3-NMeFOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.541	80079.516	7918.882	8.579	85.8	0.099	781		1.06
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.541	76676.766	8155.033	9.226	92.3	0.106	1389		0.94
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.533	77891.875	8364.774	9.316	93.2	0.107	329		0.97
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.533	75604.555	8182.690	9.389	93.9	0.108	498		0.98
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.529	71662.531	8533.415	10.330	103.3	0.119	440		0.97
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.529	66549.375	8252.962	10.758	107.6	0.124	603		0.97
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.533	64591.344	8000.675	10.745	107.5	0.124	695		0.94
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.533	59141.133	7946.232	11.656	116.6	0.134	1077		0.91

Compound name: d3-NMeFOSA
Response Factor: 0.115273
RRF SD: 0.011885, % Relative SD: 10.3103
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

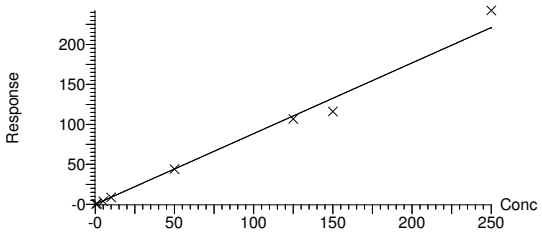
Client	: Arcadis of New York, Inc.	Lab Number	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: NEtFOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.845	11122.487	289.642	0.294	58.9	0.521	5147		1.04
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.845	10609.649	837.073	0.892	89.2	0.789	52	35	0.97
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.841	11197.601	4433.973	4.477	89.5	0.792	73929	334	0.99
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.841	10587.846	9072.514	9.687	96.9	0.857	113	1130	0.97
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.837	10562.082	46527.895	49.802	99.6	0.881	5874	1835	0.96
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.837	10264.314	109729.984	120.859	96.7	0.855	17683	1331	1.00
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.837	10906.344	126660.820	131.294	87.5	0.774	4752	2304	1.00
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.837	9620.529	233333.047	274.195	109.7	0.970	13859	7316	0.99

Compound name: NEtFOSA
Coefficient of Determination: R^2 = 0.991435
Calibration curve: 0.884541 * x
Response type: Internal Std (Ref 67), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

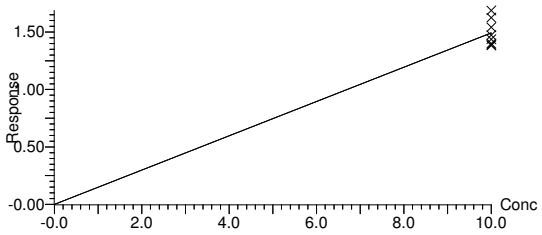
Client	: Arcadis of New York, Inc.	Lab Number	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: d5-NEtFOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.837	80079.516	11122.487	9.304	93.0	0.139	2538		0.97
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.833	76676.766	10609.649	9.269	92.7	0.138	177236		1.02
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.829	77891.875	11197.601	9.630	96.3	0.144	1963		0.98
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.829	75604.555	10587.846	9.381	93.8	0.140	2516		1.00
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.825	71662.531	10562.082	9.873	98.7	0.147	3394		0.97
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.825	66549.375	10264.314	10.332	103.3	0.154	200		1.02
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.825	64591.344	10906.344	11.311	113.1	0.169	1574		1.03
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.825	59141.133	9620.529	10.897	109.0	0.163	499		1.00

Compound name: d5-NEtFOSA
Response Factor: 0.149276
RRF SD: 0.0115466, % Relative SD: 7.7351
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

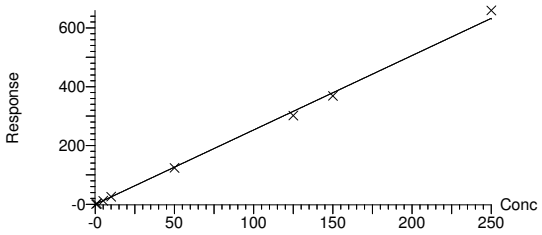
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: NMeFOSE

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.556	6352.404	759.010	0.472	94.5	2.390	96		0.96
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.548	6141.272	1470.830	0.947	94.7	2.395	114		1.05
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.544	6262.359	7473.680	4.717	94.3	2.387	336		0.99
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.544	6006.268	15535.948	10.225	102.2	2.587	1106		0.96
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.540	5999.664	74594.250	49.146	98.3	2.487	3356		0.95
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.540	5365.026	162122.219	119.448	95.6	2.417	3189		0.97
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.540	5185.325	191436.406	145.935	97.3	2.461	8449		0.99
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.540	4794.863	316124.188	260.610	104.2	2.637	6931		0.98

Compound name: NMeFOSE
Coefficient of Determination: R^2 = 0.998525
Calibration curve: 2.52982 * x
Response type: Internal Std (Ref 69), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

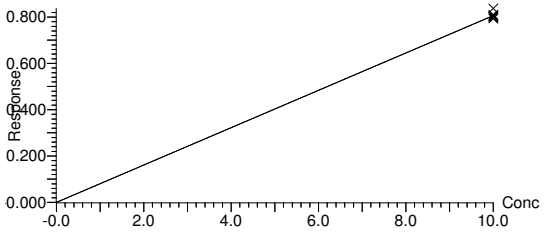
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Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: d7-NMeFOSE

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.540	80079.516	6352.404	9.840	98.4	0.079	154		0.93
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.535	76676.766	6141.272	9.935	99.3	0.080	157		0.92
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.527	77891.875	6262.359	9.973	99.7	0.080	231		0.95
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.527	75604.555	6006.268	9.854	98.5	0.079	189		0.94
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.523	71662.531	5999.664	10.385	103.8	0.084	187		0.89
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.523	66549.375	5365.026	10.000	100.0	0.081	177		0.92
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.523	64591.344	5185.325	9.958	99.6	0.080	126		0.97
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.523	59141.133	4794.863	10.057	100.6	0.081	201		0.93

Compound name: d7-NMeFOSE
Response Factor: 0.0806191
RRF SD: 0.00137973, % Relative SD: 1.71142
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



Initial Calibration Summary
Form 6
Semivolatiles

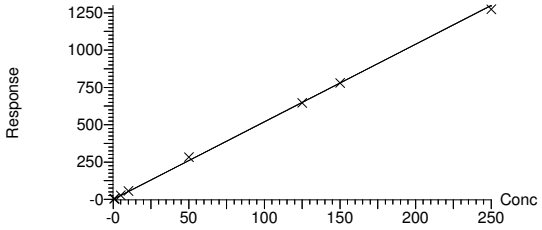
Client	: Arcadis of New York, Inc.	Lab Number	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: NEtFOSE

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.835	2969.325	744.263	0.482	96.4	5.013	146		1.04
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.835	3147.501	1450.848	0.887	88.7	4.610	134		1.01
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.826	2738.603	7686.916	5.400	108.0	5.614	296		1.04
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.830	2813.187	15762.573	10.780	107.8	5.603	833		0.98
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.822	2725.236	77210.492	54.506	109.0	5.666	2888		1.04
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.826	2732.599	176502.766	124.265	99.4	5.167	4445		0.98
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.826	2650.203	206671.438	150.029	100.0	5.199	6623		1.00
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.822	2810.010	358068.469	245.150	98.1	5.097	10867		1.06

Compound name: NEtFOSE
Coefficient of Determination: R^2 = 0.998933
Calibration curve: 5.19787 * x
Response type: Internal Std (Ref 71), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Initial Calibration Summary
Form 6
Semivolatiles

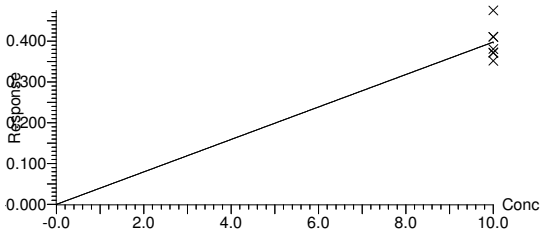
Client	: Arcadis of New York, Inc.	Lab Number	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	Project Number	: 30030318
Instrument ID	: LCMS02	Ical Ref	: ICAL15922
Calibration dates	: 07/01/19 17:57 07/01/19 19:53		

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: d9-NEtFOSE

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.818	80079.516	2969.325	9.324	93.2	0.037	78		1.05
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.814	76676.766	3147.501	10.323	103.2	0.041	129		1.03
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.810	77891.875	2738.603	8.841	88.4	0.035	91		1.00
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.810	75604.555	2813.187	9.357	93.6	0.037	92		1.01
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.806	71662.531	2725.236	9.563	95.6	0.038	139		1.05
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.806	66549.375	2732.599	10.326	103.3	0.041	102		1.02
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.806	64591.344	2650.203	10.318	103.2	0.041	72		1.05
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.806	59141.133	2810.010	11.948	119.5	0.048	109		0.93

Compound name: d9-NEtFOSE
Response Factor: 0.0397664
RRF SD: 0.00383486, % Relative SD: 9.64349
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



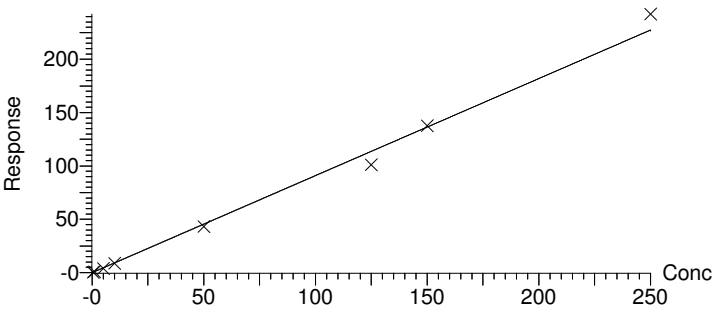
Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Method: C:\MassLynx\Data\2019\190701_537ISO.PRO\MethDB\537ISO_Q_190702_DOD.mdb 17 Jun 2019 11:52:40
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Compound name: PFBA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	2.102	44372.379	1906.609	0.472	94.4	0.859	232		0.86
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	2.103	41132.574	3591.371	0.960	96.0	0.873	1289		0.90
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	2.103	43993.914	17423.174	4.352	87.0	0.792	1644		0.87
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	2.103	42801.539	36633.340	9.406	94.1	0.856	14653		0.87
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	2.103	44024.703	189769.344	47.372	94.7	0.862	43638		0.87
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	2.097	44449.523	449948.156	111.246	89.0	0.810	368		0.86
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	2.097	42978.434	591576.938	151.269	100.8	0.918	103433		0.82
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	2.097	43206.117	1047429.688	266.422	106.6	0.970	174272		0.77

Compound name: PFBA
Coefficient of Determination: R^2 = 0.995037
Calibration curve: 0.909933 * x
Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



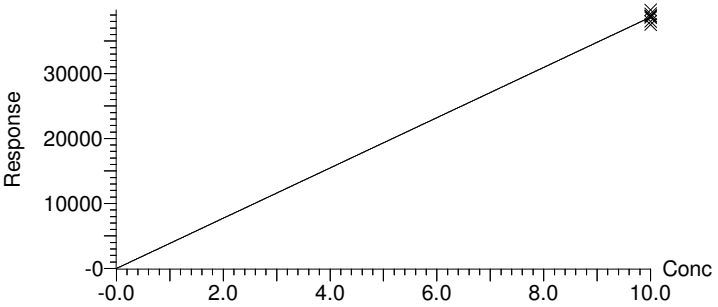
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Compound name: M3PFBA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	2.104		39786.063	10.287	102.9	3978.606	5688		0.87
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	2.104		38008.168	9.827	98.3	3800.817	5663		0.89
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	2.104		38592.258	9.978	99.8	3859.226	34382		0.87
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	2.104		38614.211	9.984	99.8	3861.421	31916		0.86
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	2.099		39196.066	10.134	101.3	3919.607	26373		0.88
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	2.099		38893.883	10.056	100.6	3889.388	52961		0.84
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	2.099		38782.465	10.027	100.3	3878.247	13702		0.81
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	2.093		37539.527	9.706	97.1	3753.953	13431		0.77

Compound name: M3PFBA
Response Factor: 3867.66
RRF SD: 68.7637, % Relative SD: 1.77792
Response type: External Std, Area
Curve type: RF



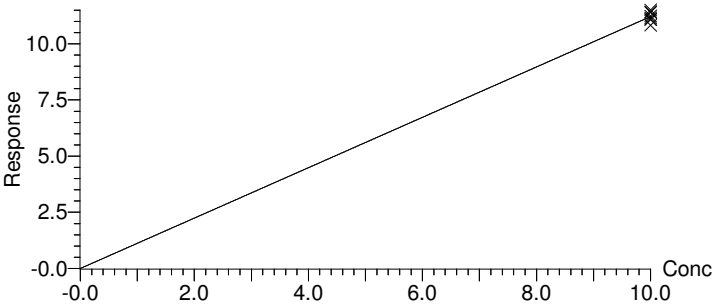
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Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: MPFBA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	2.106	39786.063	44372.379	9.946	99.5	1.115	32655		0.86
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	2.101	38008.168	41132.574	9.651	96.5	1.082	27231		0.90
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	2.101	38592.258	43993.914	10.166	101.7	1.140	31598		0.88
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	2.101	38614.211	42801.539	9.885	98.8	1.108	43322		0.87
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	2.101	39196.066	44024.703	10.016	100.2	1.123	17068		0.88
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	2.101	38893.883	44449.523	10.191	101.9	1.143	23913		0.84
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	2.101	38782.465	42978.434	9.882	98.8	1.108	27252		0.80
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	2.095	37539.527	43206.117	10.264	102.6	1.151	75564		0.77

Compound name: MPFBA
Response Factor: 1.12138
RRF SD: 0.0226689, % Relative SD: 2.02151
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF



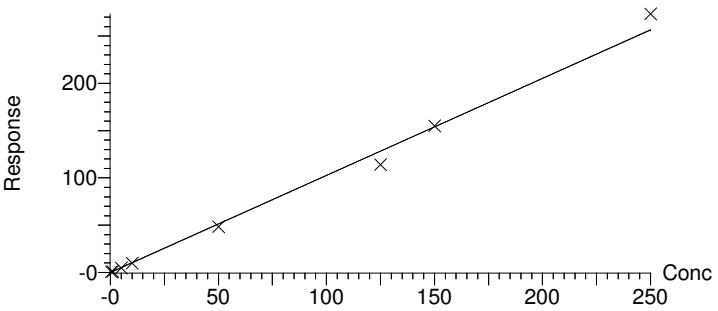
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Alpha Analytical Inc.
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Compound name: PFPeA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	4.988	64624.387	3730.622	0.563	112.5	1.155	1094		0.87
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	4.987	60069.910	6517.782	1.057	105.7	1.085	1846		0.87
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	4.984	63532.242	29543.045	4.531	90.6	0.930	6291		0.84
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	4.984	61947.293	60120.762	9.458	94.6	0.971	5644		0.85
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	4.983	62747.711	303325.344	47.108	94.2	0.967	37304		0.85
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	4.983	61356.836	700136.750	111.199	89.0	0.913	142304		0.82
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	4.984	59613.461	924782.688	151.173	100.8	1.034	148131		0.75
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	4.983	57331.730	1567354.750	266.411	106.6	1.094	156558		0.69

Compound name: PFPeA
Coefficient of Determination: R^2 = 0.995027
Calibration curve: 1.02617 * x
Response type: Internal Std (Ref 5), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



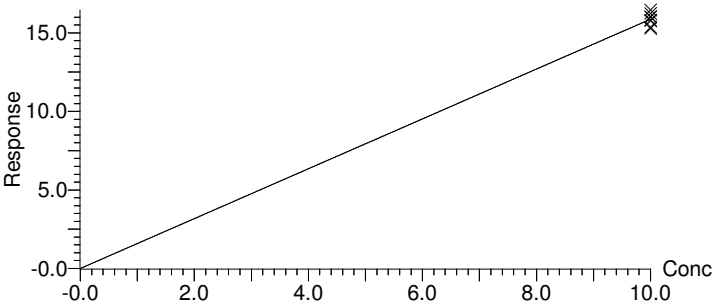
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: M5PFPEA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	4.987	39786.063	64624.387	10.233	102.3	1.624	13977		0.84
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	4.983	38008.168	60069.910	9.957	99.6	1.580	14873		0.90
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	4.983	38592.258	63532.242	10.372	103.7	1.646	11221		0.83
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	4.983	38614.211	61947.293	10.107	101.1	1.604	18243		0.84
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	4.982	39196.066	62747.711	10.086	100.9	1.601	13195		0.84
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	4.982	38893.883	61356.836	9.939	99.4	1.578	13096		0.82
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	4.982	38782.465	59613.461	9.684	96.8	1.537	11897		0.76
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	4.982	37539.527	57331.730	9.622	96.2	1.527	9824		0.69

Compound name: M5PFPEA
Response Factor: 1.58725
RRF SD: 0.0406768, % Relative SD: 2.56272
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF



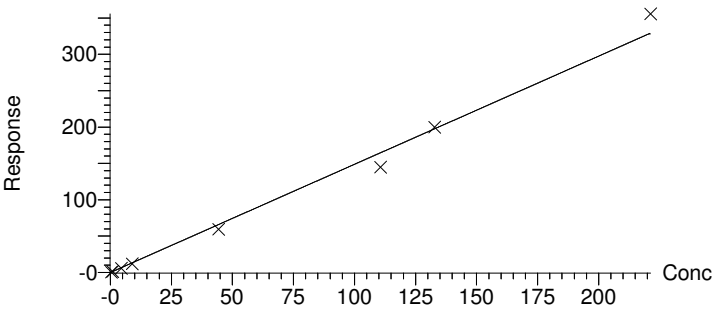
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Alpha Analytical Inc.
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Compound name: PFBS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	5.650	10608.788	630.125	0.399	90.2	1.342	146	50	0.85
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	5.646	9703.493	1197.989	0.830	93.8	1.395	15214	125	0.89
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	5.643	10475.751	5836.958	3.745	84.6	1.259	1829	524	0.87
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	5.644	9973.558	11863.916	7.994	90.3	1.344	1690	1692	0.88
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	5.643	10304.590	61247.109	39.945	90.3	1.343	11984	6867	0.87
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	5.643	9712.109	140452.969	97.192	87.9	1.307	27729	12279	0.86
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	5.642	9150.648	182972.188	134.383	101.2	1.506	38734	16497	0.82
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	5.640	8701.105	309414.531	238.989	108.0	1.607	77930	32857	0.78

Compound name: PFBS
Coefficient of Determination: R^2 = 0.992804
Calibration curve: 1.48795 * x
Response type: Internal Std (Ref 7), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



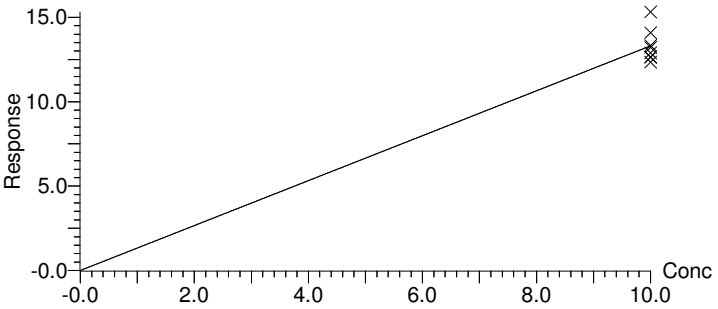
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Alpha Analytical Inc.
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Compound name: M3PFBS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	5.648	8229.168	10608.788	9.686	96.9	1.289	1814		0.87
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	5.646	7865.291	9703.493	9.269	92.7	1.234	2448		0.90
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	5.642	8290.930	10475.751	9.493	94.9	1.264	3281		0.90
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	5.642	7882.853	9973.558	9.506	95.1	1.265	2331		0.90
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	5.642	7795.047	10304.590	9.932	99.3	1.322	983		0.89
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	5.644	6891.068	9712.109	10.589	105.9	1.409	3273		0.85
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	5.642	6864.792	9150.648	10.015	100.1	1.333	1727		0.80
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	5.640	5678.970	8701.105	11.511	115.1	1.532	4802		0.75

Compound name: M3PFBS
Response Factor: 1.33101
RRF SD: 0.0976807, % Relative SD: 7.33884
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



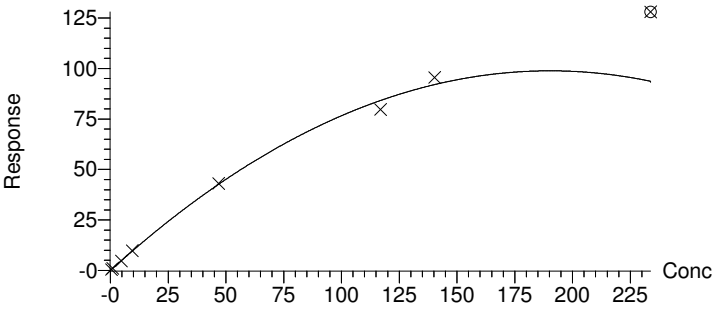
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Alpha Analytical Inc.
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Compound name: 4:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	6.821	4968.812	225.760	0.438	93.6	0.972	88	19	1.27
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	6.824	4592.236	514.244	1.081	115.6	1.198	65	24	1.08
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	6.824	5097.989	2398.560	4.582	98.0	1.006	544	157	0.85
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	6.821	5180.340	5121.366	9.763	104.4	1.057	90753	196	1.00
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	6.824	6179.839	26635.576	47.370	101.3	0.922	15556	2788	0.96
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	6.828	7656.591	61069.156	106.628	91.2	0.682	4350	3979	0.87
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	6.821	8371.602	79954.383	155.210	110.7	0.681	19470	5886	0.96
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	6.821	10853.056	138949.828			0.548	9623	6297	0.90

Compound name: 4:2FTS
Coefficient of Determination: R^2 = 0.998160
Calibration curve: -0.00273116 * x^2 + 1.03924 * x
Response type: Internal Std (Ref 9), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



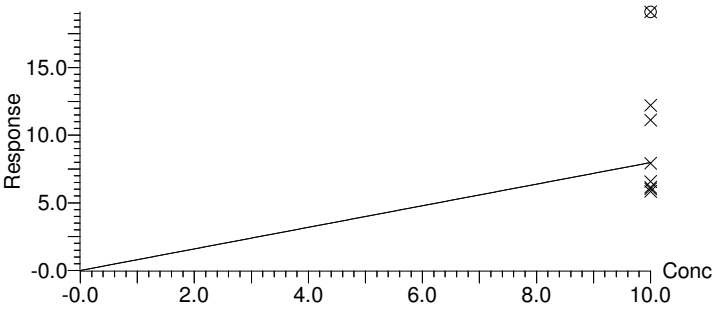
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: M2-4:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	6.828	8229.168	4968.812	7.570	75.7	0.604	84986		0.92
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	6.825	7865.291	4592.236	7.320	73.2	0.584	83530		0.91
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	6.821	8290.930	5097.989	7.709	77.1	0.615	494		0.95
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	6.822	7882.853	5180.340	8.239	82.4	0.657	3066		0.96
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	6.825	7795.047	6179.839	9.940	99.4	0.793	855		0.98
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	6.825	6891.068	7656.591	13.931	139.3	1.111	131626		1.00
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	6.822	6864.792	8371.602	15.290	152.9	1.219	3292		0.95
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	6.822	5678.970	10853.056	23.961	239.6	1.911	6474		0.89

Compound name: M2-4:2FTS
Response Factor: 0.797585
RRF SD: 0.262248, % Relative SD: 32.8802
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



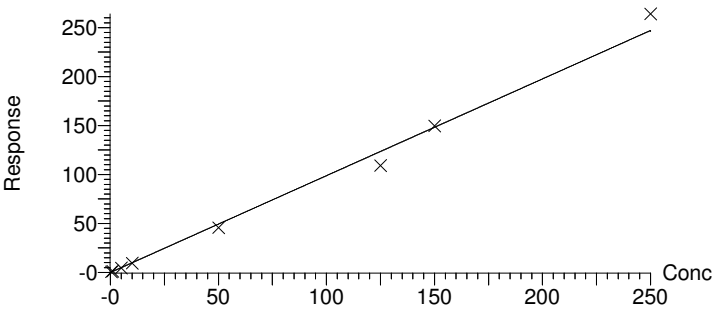
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Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: PFHxA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	6.905	82660.492	5710.761	0.699	139.8	1.382	388	31	0.95
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	6.901	75905.266	8903.114	1.187	118.7	1.173	586	34	1.03
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	6.898	81801.281	37335.285	4.617	92.3	0.913	2342	178	1.00
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	6.898	78659.211	74819.836	9.622	96.2	0.951	6707	379	1.02
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	6.901	79073.523	362981.531	46.437	92.9	0.918	22438	1660	1.01
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	6.905	75847.133	828363.750	110.483	88.4	0.874	50507	4049	0.98
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	6.902	72134.758	1079174.250	151.343	100.9	0.997	59626	3835	0.96
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	6.898	68833.016	1817505.250	267.112	106.8	1.056	82916	8040	0.98

Compound name: PFHxA
Coefficient of Determination: R^2 = 0.994283
Calibration curve: 0.988521 * x
Response type: Internal Std (Ref 11), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



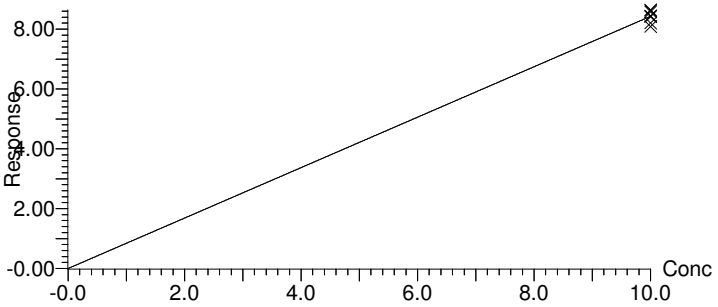
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: M5PFHxA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	6.905	97894.000	82660.492	10.016	100.2	0.844	5107		0.95
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	6.902	93843.227	75905.266	9.594	95.9	0.809	6172		0.97
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	6.898	95310.469	81801.281	10.180	101.8	0.858	17897		0.97
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	6.898	93436.430	78659.211	9.986	99.9	0.842	9938		0.99
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	6.901	91478.742	79073.523	10.253	102.5	0.864	15557		1.00
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	6.905	87937.320	75847.133	10.231	102.3	0.863	13573		0.94
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	6.902	87894.578	72134.758	9.735	97.3	0.821	7888		0.95
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	6.898	81610.086	68833.016	10.005	100.0	0.843	9945		0.96

Compound name: M5PFHxA
Response Factor: 0.843049
RRF SD: 0.0197784, % Relative SD: 2.34606
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF



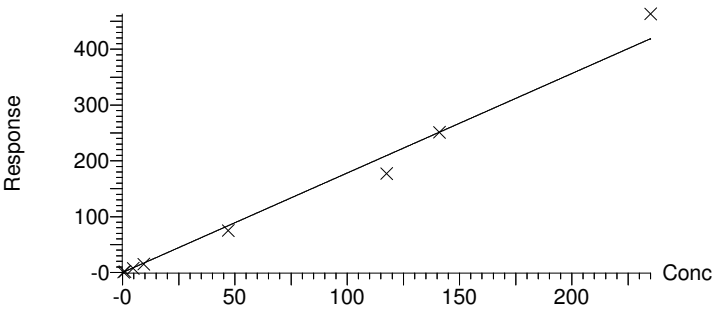
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: PFPeS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	7.232	6931.543	455.279	0.369	78.4	1.397	298	4671	0.90
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	7.225	6267.425	972.436	0.871	92.6	1.651	18701	75	1.08
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	7.222	6519.864	4711.245	4.054	86.3	1.537	85891	1164	0.99
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	7.222	6592.447	9669.135	8.229	87.5	1.560	184762	2022	1.01
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	7.222	6391.966	47963.250	42.100	89.6	1.597	6169	11901	1.07
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	7.225	6029.955	106929.086	99.492	84.7	1.509	13384	5772	0.99
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	7.222	5470.965	137491.688	140.999	100.0	1.782	9283	6726	1.03
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	7.212	4801.575	222423.750	259.897	110.6	1.971	34356	20709	1.10

Compound name: PFPeS
Coefficient of Determination: R^2 = 0.988723
Calibration curve: 1.78236 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



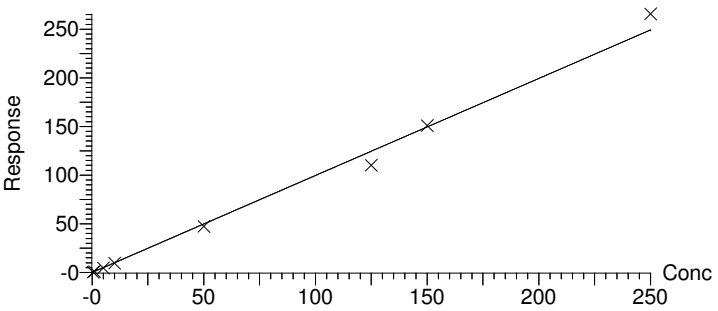
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: PFHpA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	8.198	107693.688	4691.317	0.437	87.4	0.871	431	91	0.98
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	8.194	98609.938	9491.594	0.965	96.5	0.963	934	299	1.01
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	8.191	103374.711	46923.191	4.553	91.1	0.908	2538	716	1.00
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	8.195	99529.227	95778.133	9.652	96.5	0.962	7587	3809	1.05
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	8.194	100213.727	474416.563	47.481	95.0	0.947	23705	8106	1.00
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	8.198	97121.492	1069475.000	110.444	88.4	0.881	47188	18306	1.00
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	8.195	90688.078	1369717.250	151.484	101.0	1.007	43529	26760	1.04
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	8.195	86540.719	2299362.250	266.485	106.6	1.063	106641	24930	1.00

Compound name: PFHpA
Coefficient of Determination: R^2 = 0.994827
Calibration curve: 0.997044 * x
Response type: Internal Std (Ref 14), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



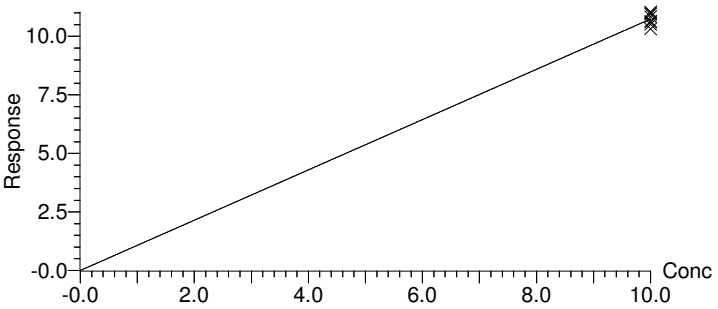
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Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: M4PFHpA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	8.198	97894.000	107693.688	10.242	102.4	1.100	15380		1.00
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	8.194	93843.227	98609.938	9.783	97.8	1.051	15366		0.99
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	8.191	95310.469	103374.711	10.098	101.0	1.085	17301		0.96
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	8.195	93436.430	99529.227	9.917	99.2	1.065	5987		1.02
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	8.194	91478.742	100213.727	10.199	102.0	1.095	11030		0.98
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	8.198	87937.320	97121.492	10.282	102.8	1.104	9448		0.99
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	8.195	87894.578	90688.078	9.606	96.1	1.032	5868		1.01
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	8.191	81610.086	86540.719	9.873	98.7	1.060	10322		1.06

Compound name: M4PFHpA
Response Factor: 1.07411
RRF SD: 0.0260901, % Relative SD: 2.42901
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF



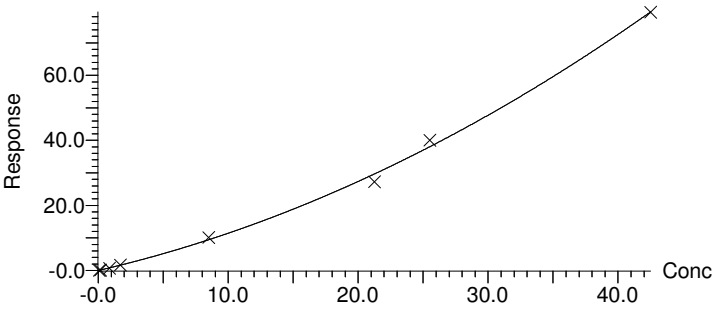
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Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: br-PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	8.128	6931.543	17.519	0.027	32.2	0.297	3		0.72
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	8.125	6267.425	56.477	0.098	57.4	0.530	9		0.85
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	8.111	6519.864	476.856	0.779	91.6	0.860	27	15	0.53
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	8.122	6592.447	1114.154	1.758	103.4	0.994	50	31	0.43
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	8.125	6391.966	6459.705	9.000	105.9	1.189	495	390	0.39
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	8.125	6029.955	16439.018	19.941	93.8	1.283	3219	251	0.44
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	8.122	5470.965	21914.219	26.474	103.8	1.571	3464	816	0.44
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	8.122	4801.575	38106.828	42.449	99.9	1.867	2122	748	0.44

Compound name: br-PFHxS
Coefficient of Determination: R^2 = 0.997844
Calibration curve: 0.0223244 * x^2 + 0.92197 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



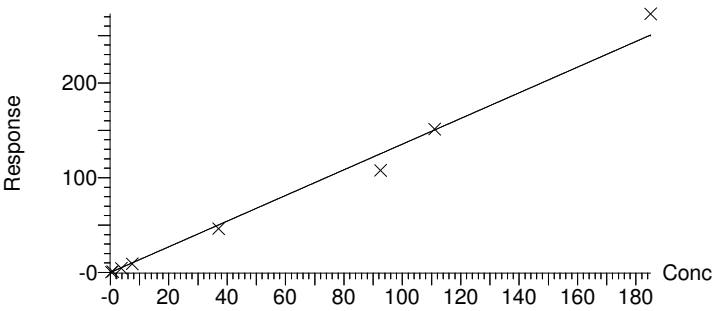
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Alpha Analytical Inc.
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Compound name: L-PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	8.356	6931.543	283.921	0.302	81.7	1.107	27	19	1.47
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	8.363	6267.425	546.263	0.643	87.0	1.178	101	9	0.92
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	8.352	6519.864	2924.847	3.312	89.5	1.212	261	194	1.10
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	8.363	6592.447	6009.956	6.731	91.0	1.232	392	312	0.99
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	8.356	6391.966	29571.266	34.156	92.3	1.250	3579	3885	1.05
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	8.363	6029.955	64866.965	79.422	85.9	1.163	19448	2167	1.00
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	8.360	5470.965	82758.789	111.681	100.6	1.363	20389	6425	1.03
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	8.356	4801.575	131023.039	201.462	108.9	1.475	11131	5108	1.09

Compound name: L-PFHxS
Coefficient of Determination: R^2 = 0.991468
Calibration curve: 1.35447 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



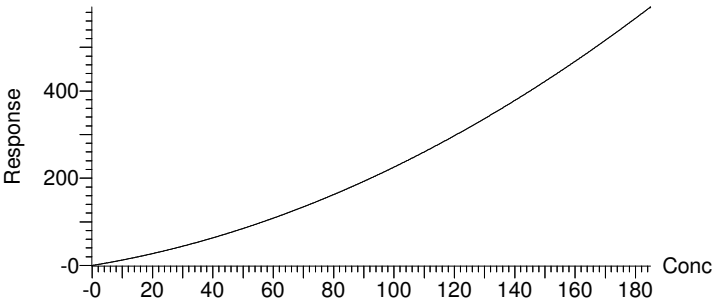
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Alpha Analytical Inc.
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Compound name: PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23		6931.543	301.440	0.330					
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58		6267.425	602.740	0.741					
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29		6519.864	3401.703	4.091					
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03		6592.447	7124.110	8.489					
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37		6391.966	36030.971	43.156					
6	I5639	IA2-537STD125	01-Jul-19	19:20:11		6029.955	81305.983	99.363					
7	I5640	IA2-537STD150	01-Jul-19	19:36:40		5470.965	104673.008	138.156					
8	I5641	IA2-537STD250	01-Jul-19	19:53:14		4801.575	169129.867	243.911					

Compound name: PFHxS
Coefficient of Determination: 0.000000
Calibration curve: 1.13822 * x
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



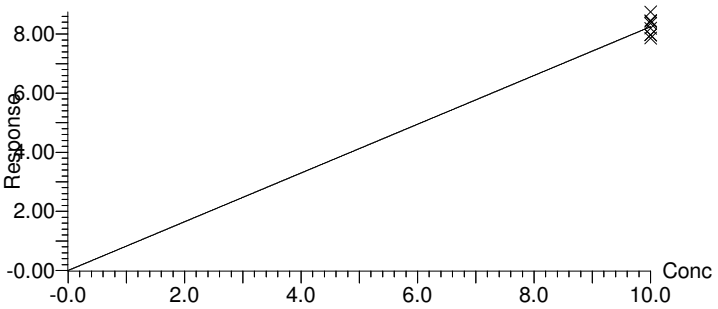
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: M3PFHxS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	8.363	8229.168	6931.543	10.211	102.1	0.842	143048		0.98
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	8.360	7865.291	6267.425	9.660	96.6	0.797	130523		0.96
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	8.352	8290.930	6519.864	9.533	95.3	0.786	1394		1.07
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	8.363	7882.853	6592.447	10.138	101.4	0.836	3127		0.94
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	8.356	7795.047	6391.966	9.940	99.4	0.820	264		1.05
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	8.360	6891.068	6029.955	10.608	106.1	0.875	300		1.06
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	8.360	6864.792	5470.965	9.661	96.6	0.797	675		1.02
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	8.353	5678.970	4801.575	10.250	102.5	0.846	88369		1.16

Compound name: M3PFHxS
Response Factor: 0.824919
RRF SD: 0.0303471, % Relative SD: 3.6788
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



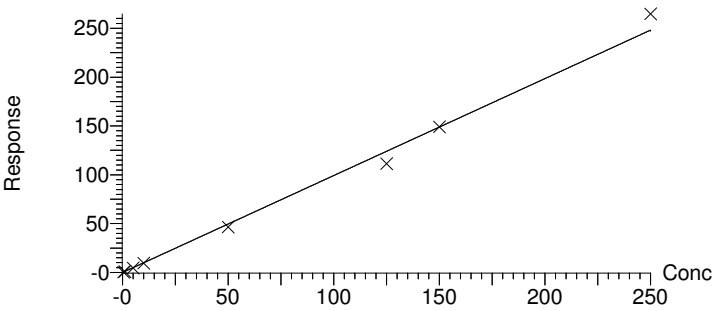
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: br-PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23		96273.625							
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58		89290.797							
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29		96741.789							
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03		93890.203							
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37		93543.516						3	
6	I5639	IA2-537STD125	01-Jul-19	19:20:11		87982.359							
7	I5640	IA2-537STD150	01-Jul-19	19:36:40		86628.758							
8	I5641	IA2-537STD250	01-Jul-19	19:53:14		80389.586						4	

Compound name: L-PFOA
Coefficient of Determination: R^2 = 0.995328
Calibration curve: 0.992558 * x
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



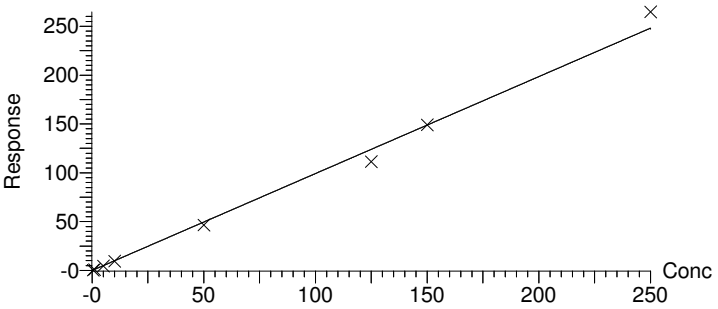
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Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: L-PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	9.152	96273.625	4556.052	0.477	95.4	0.946	204	82	1.09
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	9.149	89290.797	8922.305	1.007	100.7	0.999	330	190	1.02
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	9.145	96741.789	42840.941	4.462	89.2	0.886	2277	91915	0.97
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	9.156	93890.203	89546.094	9.609	96.1	0.954	4868	202906	0.95
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	9.145	93543.516	436320.063	46.993	94.0	0.933	14430	3442	1.04
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	9.149	87982.359	979379.313	112.150	89.7	0.891	27655	4417	1.04
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	9.149	86628.758	1290593.625	150.097	100.1	0.993	41979	8319	1.03
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	9.145	80389.586	2128080.500	266.706	106.7	1.059	45740	10850	1.08

Compound name: L-PFOA
Coefficient of Determination: R^2 = 0.995328
Calibration curve: 0.992558 * x
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



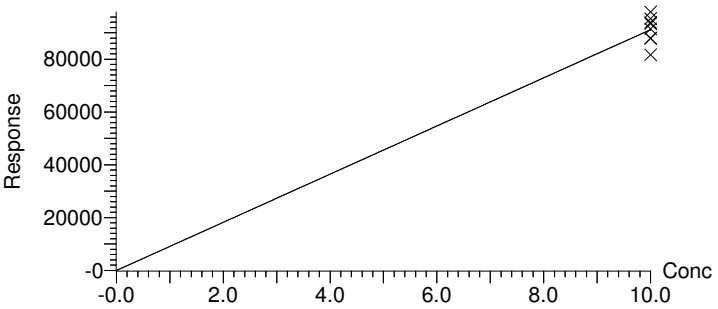
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: M2PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	9.152		97894.000	10.737	107.4	9789.400	10876		1.01
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	9.149		93843.227	10.293	102.9	9384.323	15140		1.00
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	9.145		95310.469	10.454	104.5	9531.047	11592		1.02
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	9.152		93436.430	10.248	102.5	9343.643	3487		1.07
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	9.145		91478.742	10.033	100.3	9147.874	4451		1.04
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	9.149		87937.320	9.645	96.4	8793.732	11579		1.03
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	9.149		87894.578	9.640	96.4	8789.458	6209		1.01
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	9.149		81610.086	8.951	89.5	8161.009	7699		0.95

Compound name: M2PFOA
Response Factor: 9117.56
RRF SD: 517.279, % Relative SD: 5.67343
Response type: External Std, Area
Curve type: RF



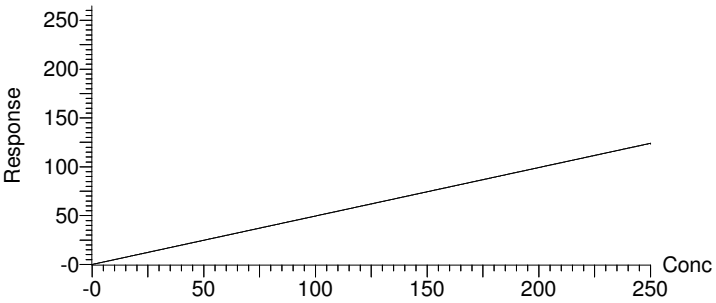
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23		96273.625	4556.052	0.477					
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58		89290.797	8922.305	1.007					
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29		96741.789	42840.941	4.462					
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03		93890.203	89546.094	9.609					
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37		93543.516	436320.063	46.993					
6	I5639	IA2-537STD125	01-Jul-19	19:20:11		87982.359	979379.313	112.150					
7	I5640	IA2-537STD150	01-Jul-19	19:36:40		86628.758	1290593.625	150.097					
8	I5641	IA2-537STD250	01-Jul-19	19:53:14		80389.586	2128080.500	266.706					

Compound name: PFOA
Coefficient of Determination: 0.000000
Calibration curve: 0.496279 * x
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



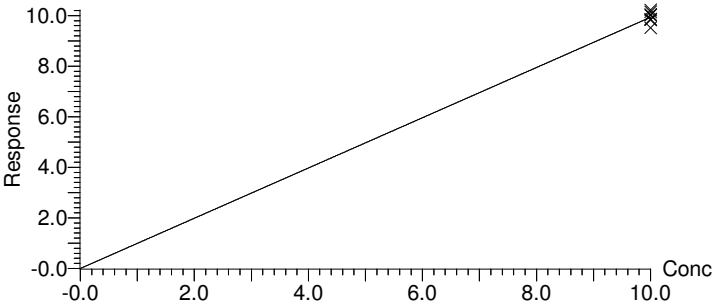
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: M8PFOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	9.152	97894.000	96273.625	9.898	99.0	0.983	10867		0.99
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	9.149	93843.227	89290.797	9.576	95.8	0.951	8454		0.98
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	9.145	95310.469	96741.789	10.216	102.2	1.015	11841		0.98
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	9.152	93436.430	93890.203	10.114	101.1	1.005	985		1.04
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	9.145	91478.742	93543.516	10.292	102.9	1.023	12395		1.00
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	9.149	87937.320	87982.359	10.070	100.7	1.001	9652		1.01
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	9.149	87894.578	86628.758	9.920	99.2	0.986	3066		1.01
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	9.146	81610.086	80389.586	9.914	99.1	0.985	5972		1.06

Compound name: M8PFOA
Response Factor: 0.993567
RRF SD: 0.0223163, % Relative SD: 2.24608
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF



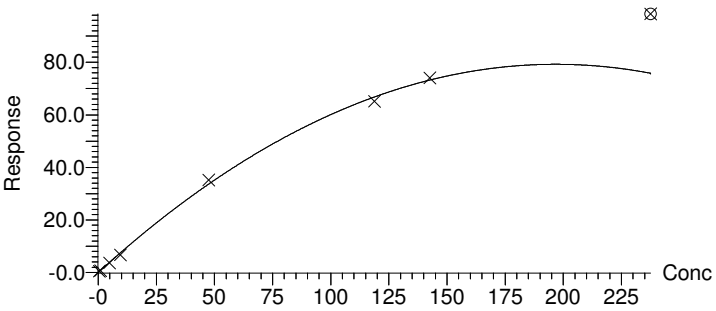
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Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: 6:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	9.118	4566.003	223.115	0.607	127.8	1.029	4		0.79
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	9.108	4225.765	284.253	0.836	88.0	0.708	6837		1.01
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	9.108	4496.702	1647.096	4.599	96.8	0.771	1169	22	0.86
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	9.115	4853.966	3275.691	8.560	90.1	0.710	67725	10420	0.85
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	9.105	5604.984	19744.219	50.087	105.4	0.742	426703	1608	1.00
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	9.108	6643.155	43303.801	113.811	95.8	0.549	10447	96223	0.95
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	9.109	7536.891	55869.324	146.648	102.9	0.520	639	787	0.94
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	9.105	9589.540	94398.539			0.414	1810	5739	0.97

Compound name: 6:2FTS
Coefficient of Determination: R^2 = 0.998331
Calibration curve: -0.0020486 * x^2 + 0.805905 * x
Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



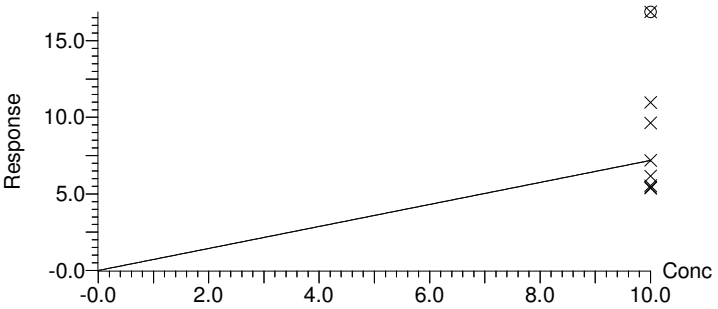
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Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: M2-6:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	9.112	8229.168	4566.003	7.720	77.2	0.555	2320		1.00
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	9.108	7865.291	4225.765	7.475	74.8	0.537	94389		0.94
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	9.105	8290.930	4496.702	7.546	75.5	0.542	98013		0.99
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	9.112	7882.853	4853.966	8.567	85.7	0.616	356		1.09
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	9.105	7795.047	5604.984	10.004	100.0	0.719	1194		0.98
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	9.105	6891.068	6643.155	13.413	134.1	0.964	1038		1.08
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	9.109	6864.792	7536.891	15.275	152.8	1.098	117		0.99
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	9.105	5678.970	9589.540	23.494	234.9	1.689	1312		0.92

Compound name: M2-6:2FTS
Response Factor: 0.718746
RRF SD: 0.225623, % Relative SD: 31.3912
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



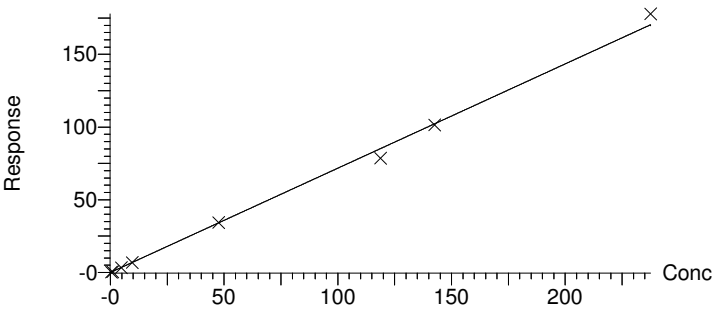
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: PFHpS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	9.244	9113.684	262.989	0.402	84.7	0.608	7	4	1.66
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	9.247	7983.817	389.356	0.680	71.6	0.513	31	10	0.71
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	9.241	8461.475	2759.168	4.546	95.7	0.686	192	61658	1.00
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	9.248	8499.692	5773.076	9.468	99.7	0.715	1686	4002	1.00
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	9.241	8043.667	27696.563	47.998	101.0	0.725	2194	631	0.97
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	9.244	7505.442	59041.625	109.657	92.3	0.662	4790	3372	0.99
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	9.244	7353.014	74525.094	141.283	99.1	0.711	1075	1598	1.01
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	9.241	6829.017	121441.258	247.891	104.4	0.749	5651	2556597	1.04

Compound name: PFHpS
Coefficient of Determination: R^2 = 0.997691
Calibration curve: 0.717376 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



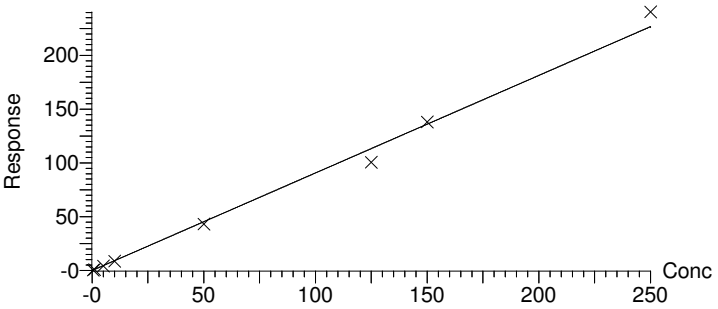
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: PFNA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	9.909	92137.875	4071.339	0.487	97.4	0.884	92	16552	1.04
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	9.909	84153.391	7976.006	1.045	104.5	0.948	177	225	1.04
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	9.913	89059.047	36730.324	4.546	90.9	0.825	1147	162588	0.93
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	9.909	87294.117	75069.625	9.479	94.8	0.860	1791	9372	0.98
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	9.905	85370.906	369406.156	47.694	95.4	0.865	9428	2372	0.93
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	9.905	82797.633	833277.563	110.929	88.7	0.805	16345	11133	0.98
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	9.905	78043.242	1077969.125	152.245	101.5	0.921	18877	12897	0.96
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	9.905	72739.594	1749314.375	265.075	106.0	0.962	28100	21096	0.94

Compound name: PFNA
Coefficient of Determination: R^2 = 0.995306
Calibration curve: 0.907251 * x
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



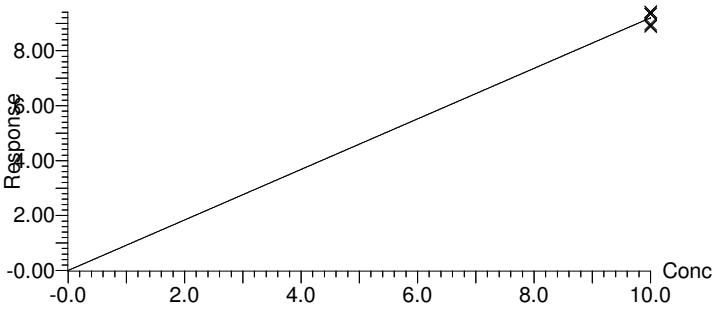
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: M9PFNA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	9.909	97894.000	92137.875	10.230	102.3	0.941	2843		0.99
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	9.909	93843.227	84153.391	9.746	97.5	0.897	14519		0.98
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	9.913	95310.469	89059.047	10.156	101.6	0.934	6369		0.93
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	9.909	93436.430	87294.117	10.154	101.5	0.934	2933		0.97
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	9.901	91478.742	85370.906	10.143	101.4	0.933	6972		0.99
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	9.905	87937.320	82797.633	10.233	102.3	0.942	2184		0.96
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	9.905	87894.578	78043.242	9.650	96.5	0.888	4887		0.93
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	9.905	81610.086	72739.594	9.687	96.9	0.891	5487		0.93

Compound name: M9PFNA
Response Factor: 0.920078
RRF SD: 0.023584, % Relative SD: 2.56326
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF



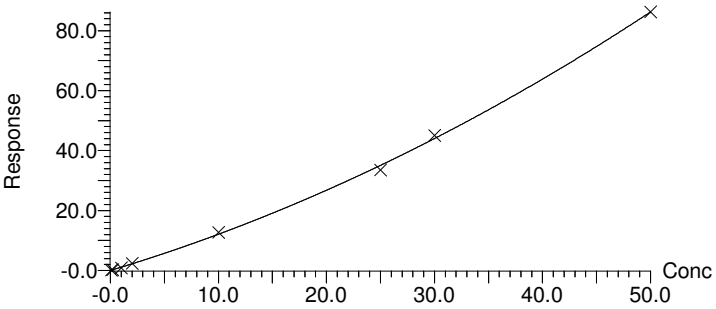
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: br-PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	9.779	9113.684	68.974	0.070	70.0	0.757	2	5	0.53
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	9.775	7983.817	176.398	0.204	102.0	1.105	2	27	0.35
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	9.703	8461.475	701.000	0.760	76.0	0.828	13	3505	2.75
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	9.775	8499.692	1994.406	2.118	105.9	1.173	68	18	0.35
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	9.766	8043.667	10231.612	10.465	104.6	1.272	43	181	0.36
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	9.771	7505.442	25192.975	24.121	96.5	1.343	247	77	0.37
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	9.771	7353.014	33128.301	30.555	101.8	1.502	39	68	0.38
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	9.771	6829.017	58913.109	50.004	100.0	1.725	1367	138	0.36

Compound name: br-PFOS
Coefficient of Determination: R^2 = 0.999075
Calibration curve: 0.0128916 * x^2 + 1.08062 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



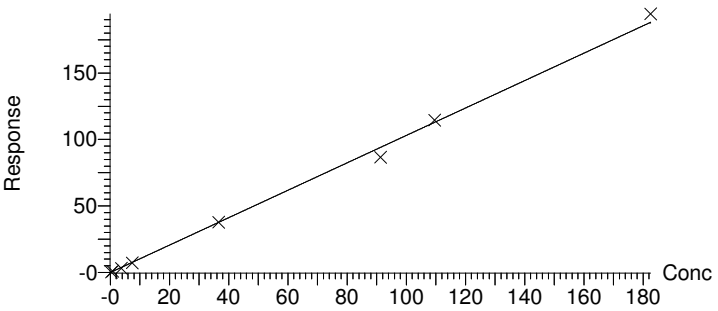
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: L-PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	9.964	9113.684	276.186	0.294	80.6	0.830	12		0.95
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	9.964	7983.817	724.177	0.880	120.6	1.243	12		0.95
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	9.964	8461.475	2718.503	3.117	85.4	0.880	111	44958	1.01
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	9.960	8499.692	6072.200	6.931	95.0	0.979	393	194	1.05
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	9.955	8043.667	30384.119	36.650	100.4	1.035	253	1749	0.98
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	9.955	7505.442	65066.020	84.111	92.2	0.950	1342	586	1.03
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	9.956	7353.014	84257.664	111.178	101.5	1.046	206	486	1.02
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	9.956	6829.017	132770.344	188.633	103.4	1.065	6516	947	1.01

Compound name: L-PFOS
Coefficient of Determination: R^2 = 0.997778
Calibration curve: 1.03068 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



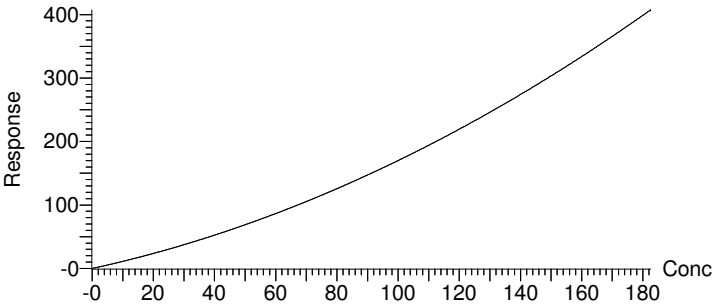
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	ng/mL	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23		9113.684	345.160	0.364					
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58		7983.817	900.575	1.084					
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29		8461.475	3419.503	3.877					
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03		8499.692	8066.606	9.049					
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37		8043.667	40615.731	47.114					
6	I5639	IA2-537STD125	01-Jul-19	19:20:11		7505.442	90258.995	108.232					
7	I5640	IA2-537STD150	01-Jul-19	19:36:40		7353.014	117385.965	141.733					
8	I5641	IA2-537STD250	01-Jul-19	19:53:14		6829.017	191683.453	238.637					

Compound name: PFOS
Coefficient of Determination: 0.000000
Calibration curve: 1.05565 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



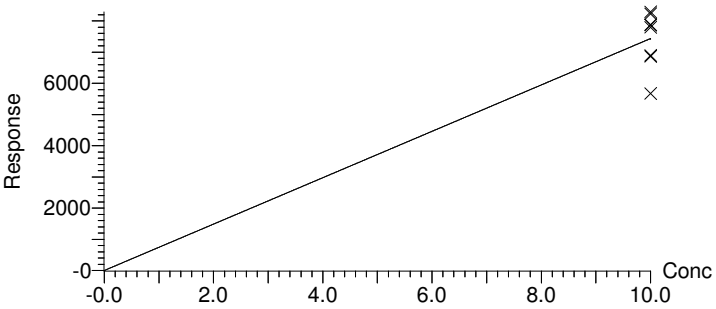
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: M4PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	9.964		8229.168	11.065	110.6	822.917	3318		0.90
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	9.964		7865.291	10.576	105.8	786.529	158063		0.98
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	9.964		8290.930	11.148	111.5	829.093	1942		0.97
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	9.960		7882.853	10.599	106.0	788.285	160880		0.98
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	9.955		7795.047	10.481	104.8	779.505	302		0.92
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	9.955		6891.068	9.266	92.7	689.107	490		0.98
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	9.956		6864.792	9.230	92.3	686.479	1337		1.07
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	9.956		5678.970	7.636	76.4	567.897	112544		1.03

Compound name: M4PFOS
Response Factor: 743.726
RRF SD: 89.3091, % Relative SD: 12.0083
Response type: External Std, Area
Curve type: RF



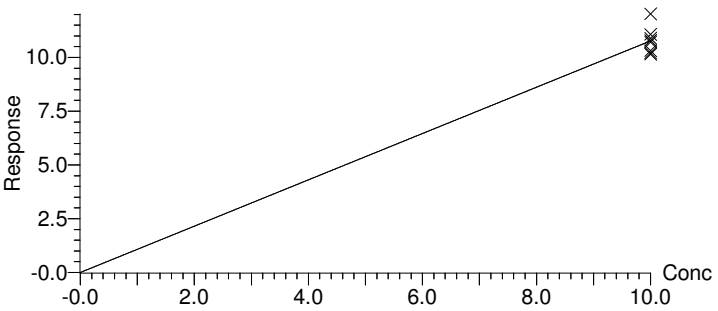
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: M8PFOS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	9.960	8229.168	9113.684	10.283	102.8	1.107	188094		1.02
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	9.964	7865.291	7983.817	9.425	94.2	1.015	160872		0.95
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	9.964	8290.930	8461.475	9.476	94.8	1.021	175897		0.98
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	9.960	7882.853	8499.692	10.012	100.1	1.078	1152		0.96
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	9.956	7795.047	8043.667	9.581	95.8	1.032	416		0.96
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	9.956	6891.068	7505.442	10.113	101.1	1.089	1240		0.96
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	9.956	6864.792	7353.014	9.945	99.5	1.071	828		1.05
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	9.956	5678.970	6829.017	11.165	111.7	1.203	253		0.99

Compound name: M8PFOS
Response Factor: 1.07701
RRF SD: 0.0608513, % Relative SD: 5.65004
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



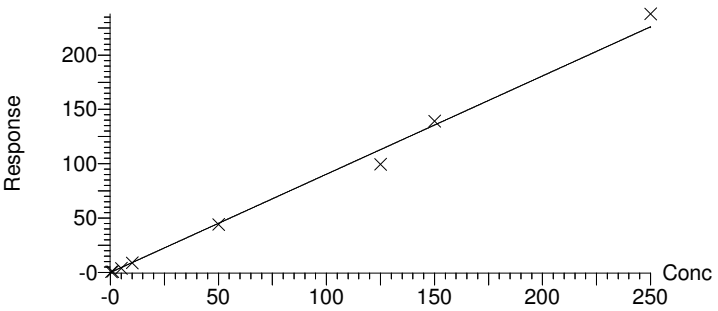
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Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: PFDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	10.5...	89403.563	3954.750	0.489	97.8	0.885	102	23	0.97
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	10.5...	83196.977	7064.525	0.939	93.9	0.849	151	176	1.04
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	10.5...	88894.461	34781.816	4.327	86.5	0.783	961	81	1.00
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	10.5...	85297.813	74595.898	9.672	96.7	0.875	1987	1007	0.89
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	10.5...	79647.898	350571.000	48.681	97.4	0.880	10310	8246	1.01
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	10.5...	76542.734	762358.625	110.158	88.1	0.797	20370	3494	1.02
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	10.5...	70286.641	979530.875	154.136	102.8	0.929	16211	7345	1.01
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	10.5...	66484.125	1581520.625	263.097	105.2	0.952	36913	3048	0.97

Compound name: PFDA
Coefficient of Determination: R^2 = 0.995312
Calibration curve: 0.904151 * x
Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



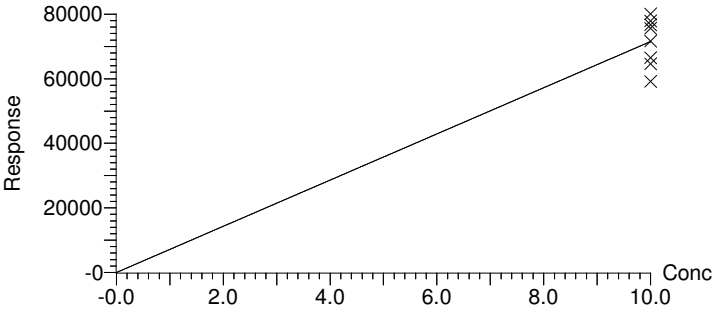
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: M2PFDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	10.5...		80079.516	11.196	112.0	8007.952	15353		0.94
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	10.5...		76676.766	10.720	107.2	7667.677	18635		0.91
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	10.5...		77891.875	10.890	108.9	7789.188	12616		0.98
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	10.5...		75604.555	10.570	105.7	7560.456	9504		0.91
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	10.5...		71662.531	10.019	100.2	7166.253	20243		1.02
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	10.5...		66549.375	9.304	93.0	6654.938	11626		1.01
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	10.5...		64591.344	9.031	90.3	6459.134	16912		1.01
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	10.5...		59141.133	8.269	82.7	5914.113	14165		0.97

Compound name: M2PFDA
Response Factor: 7152.46
RRF SD: 739.799, % Relative SD: 10.3433
Response type: External Std, Area
Curve type: RF



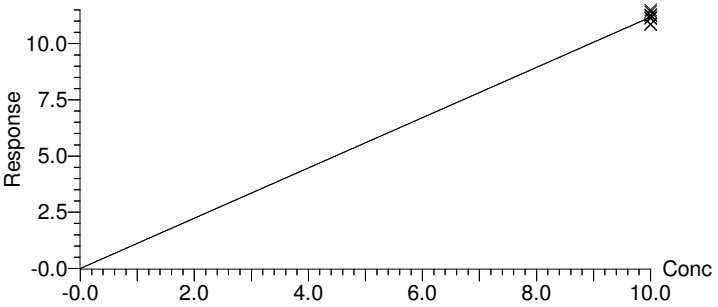
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: M6PFDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	10.5...	80079.516	89403.563	9.985	99.9	1.116	6183		0.93
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	10.5...	76676.766	83196.977	9.704	97.0	1.085	3423		0.90
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	10.5...	77891.875	88894.461	10.207	102.1	1.141	5177		0.97
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	10.5...	75604.555	85297.813	10.090	100.9	1.128	994		1.00
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	10.5...	71662.531	79647.898	9.940	99.4	1.111	1069		1.00
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	10.5...	66549.375	76542.734	10.287	102.9	1.150	5534		0.99
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	10.5...	64591.344	70286.641	9.732	97.3	1.088	4017		0.99
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	10.5...	59141.133	66484.125	10.054	100.5	1.124	3888		0.97

Compound name: M6PFDA
Response Factor: 1.11811
RRF SD: 0.0231125, % Relative SD: 2.06711
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



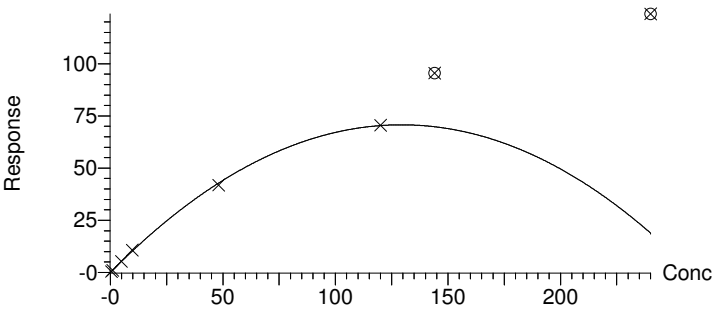
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: 8:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	10.5...	2603.371	133.117	0.468	97.5	1.065	136		1.00
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	10.5...	2465.874	254.794	0.948	98.7	1.076	9		1.78
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	10.5...	2720.764	1447.548	4.958	103.3	1.108	34670		1.04
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	10.5...	2969.014	3172.314	10.166	105.9	1.113	70063		0.90
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	10.5...	3312.228	13880.141	46.756	97.4	0.873	7409		1.09
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	10.5...	4183.437	29523.027	123.125	102.6	0.588	1546		1.06
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	10.5...	3869.740	36950.195			0.663	814664		1.03
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	10.5...	4693.819	58140.844			0.516	3263		0.96

Compound name: 8:2FTS
Coefficient of Determination: R^2 = 0.999541
Calibration curve: -0.00423066 * x^2 + 1.09407 * x
Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/y, Axis trans: None



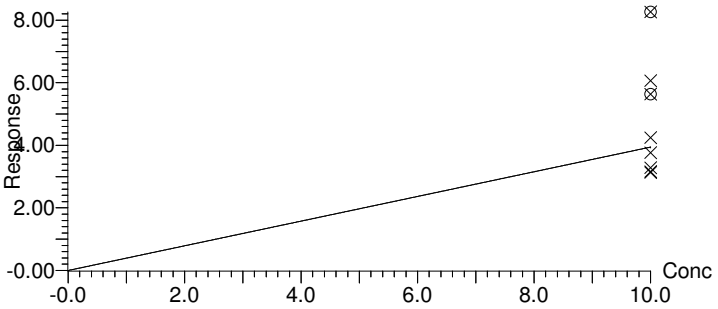
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: M2-8:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	10.5...	8229.168	2603.371	8.020	80.2	0.316	38		0.95
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	10.5...	7865.291	2465.874	7.948	79.5	0.314	47669		1.02
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	10.5...	8290.930	2720.764	8.320	83.2	0.328	55113		1.09
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	10.5...	7882.853	2969.014	9.549	95.5	0.377	57178		0.95
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	10.5...	7795.047	3312.228	10.772	107.7	0.425	63117		0.94
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	10.5...	6891.068	4183.437	15.391	153.9	0.607	488		1.03
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	10.5...	6864.792	3869.740	14.291	142.9	0.564	73772		1.10
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	10.5...	5678.970	4693.819	20.954	209.5	0.827	375		0.97

Compound name: M2-8:2FTS
Response Factor: 0.394445
RRF SD: 0.112695, % Relative SD: 28.5704
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF



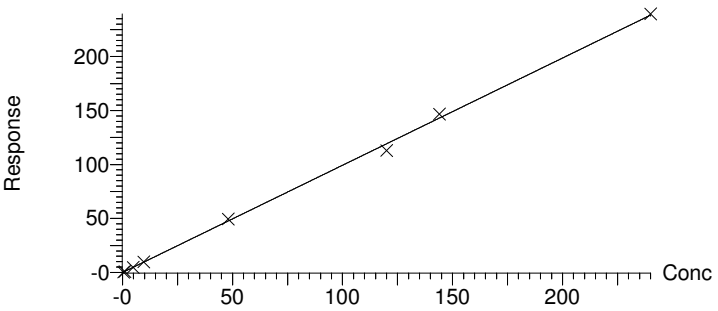
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: PFNS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	10.5...	9113.684	256.554	0.283	59.1	0.586	15	5007	0.96
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	10.5...	7983.817	632.865	0.798	83.1	0.826	343	13480	0.92
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	10.5...	8461.475	3972.886	4.728	98.5	0.978	2398	63990	0.94
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	10.5...	8499.692	8396.533	9.947	103.6	1.029	193297	143772	0.87
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	10.5...	8043.667	39739.238	49.744	103.6	1.029	1521	15725	0.91
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	10.5...	7505.442	84682.344	113.604	94.7	0.940	29269	1378030	0.90
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	10.5...	7353.014	107787.945	147.599	102.5	1.018	8283	12039	0.92
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	10.5...	6829.017	163548.141	241.137	100.5	0.998	25818	9300	1.02

Compound name: PFNS
Coefficient of Determination: R^2 = 0.998876
Calibration curve: 0.993168 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



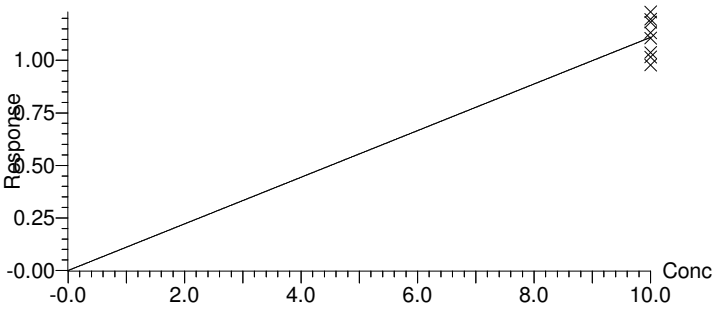
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: d3-NMeFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	10.9...	80079.516	8131.109	9.151	91.5	0.102	430		1.02
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	10.9...	76676.766	7493.462	8.808	88.1	0.098	435		1.10
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	10.9...	77891.875	8084.063	9.354	93.5	0.104	394		1.06
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	10.9...	75604.555	8356.476	9.961	99.6	0.111	728		0.97
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	10.9...	71662.531	8110.640	10.200	102.0	0.113	828		0.98
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	10.9...	66549.375	8189.774	11.091	110.9	0.123	177		1.15
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	10.9...	64591.344	7724.891	10.779	107.8	0.120	435		1.01
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	10.9...	59141.133	6992.771	10.656	106.6	0.118	128314		1.10

Compound name: d3-NMeFOSAA
Response Factor: 0.110957
RRF SD: 0.00921561, % Relative SD: 8.30556
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



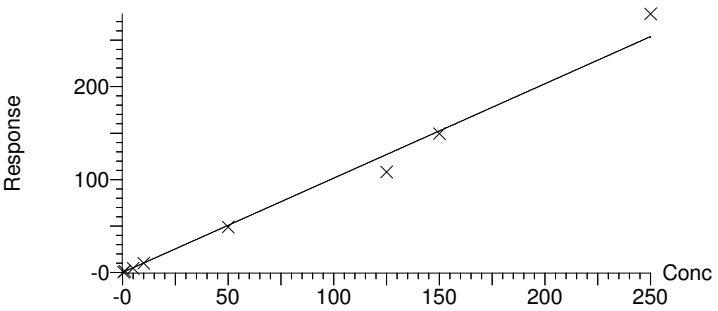
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: NMeFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	10.9...	8131.109	419.158	0.508	101.5	1.031	345	253	1.40
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	10.9...	7493.462	948.171	1.246	124.6	1.265	52	8190	0.99
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	10.9...	8084.063	3495.317	4.257	85.1	0.865	547	136	0.90
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	10.9...	8356.476	8292.636	9.770	97.7	0.992	471	201	0.97
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	10.9...	8110.640	39598.219	48.067	96.1	0.976	1100	520	1.04
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	10.9...	8189.774	88525.258	106.419	85.1	0.865	2180	1246	1.04
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	10.9...	7724.891	115517.039	147.224	98.1	0.997	2014	1316	1.06
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	10.9...	6992.771	194622.734	274.011	109.6	1.113	3540	1755	1.15

Compound name: NMeFOSAA
Coefficient of Determination: R^2 = 0.990705
Calibration curve: 1.01573 * x
Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



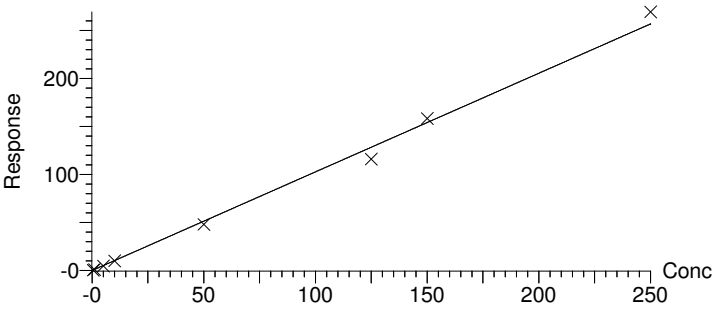
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: PFUnA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.092	80298.875	3852.565	0.467	93.4	0.960	76	8590	0.95
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.087	74232.297	7279.057	0.955	95.5	0.981	184	20523	0.89
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.083	79888.063	36471.609	4.446	88.9	0.913	1173	108543	0.90
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.078	77301.000	77217.578	9.728	97.3	0.999	2064	208278	0.98
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.073	73369.703	352599.469	46.799	93.6	0.961	5746	3306	0.99
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.073	64699.145	749201.438	112.765	90.2	0.926	11934	3859	0.99
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.073	60155.914	952454.938	154.184	102.8	1.056	15557	4688	1.01
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.073	56980.367	1533954.250	262.156	104.9	1.077	14872	8400	0.98

Compound name: PFUnA
Coefficient of Determination: R^2 = 0.996210
Calibration curve: 1.0269 * x
Response type: Internal Std (Ref 43), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



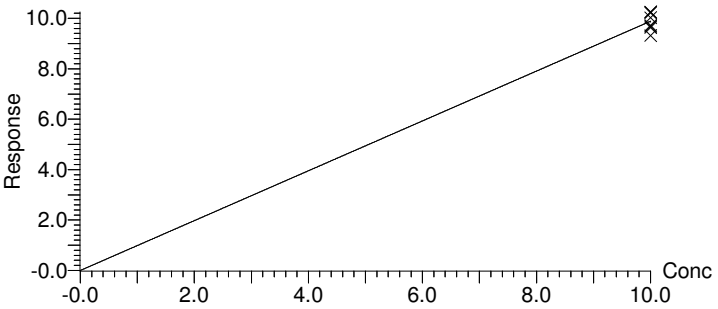
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: M7-PFUDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.093	80079.516	80298.875	10.142	101.4	1.003	5044		0.90
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.088	76676.766	74232.297	9.792	97.9	0.968	2093		0.92
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.083	77891.875	79888.063	10.373	103.7	1.026	2878		0.91
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.078	75604.555	77301.000	10.341	103.4	1.022	6248		0.97
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.073	71662.531	73369.703	10.355	103.6	1.024	1998		0.99
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.073	66549.375	64699.145	9.833	98.3	0.972	1187101		0.98
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.073	64591.344	60155.914	9.420	94.2	0.931	2509		0.98
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.073	59141.133	56980.367	9.745	97.4	0.963	6194		0.94

Compound name: M7-PFUDA
Response Factor: 0.988718
RRF SD: 0.0349623, % Relative SD: 3.53613
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



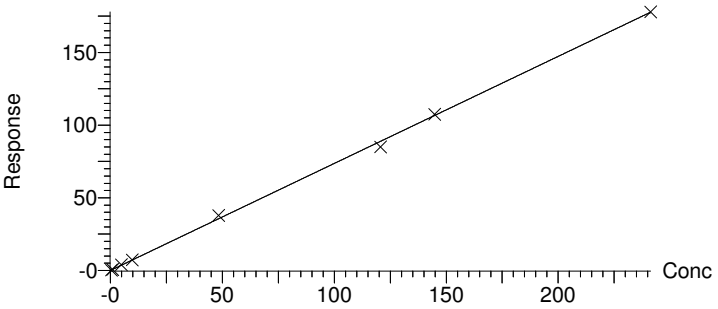
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: PFDS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.103	9113.684	215.321	0.321	66.5	0.490	4584	7550	1.25
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.103	7983.817	454.460	0.773	80.1	0.590	11182	12517	0.76
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.093	8461.475	3439.658	5.518	114.4	0.843	1040	258	0.96
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.093	8499.692	6220.360	9.934	102.9	0.758	1677	127359	0.93
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.088	8043.667	30540.459	51.540	106.8	0.787	4414	1474	0.89
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.088	7505.442	63741.094	115.283	95.6	0.704	5268	3329	0.89
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.088	7353.014	79026.539	145.892	100.8	0.742	6340	1608564	0.90
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.088	6829.017	121511.289	241.536	100.1	0.738	2448462	12151	0.88

Compound name: PFDS
Coefficient of Determination: R^2 = 0.998790
Calibration curve: 0.736676 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



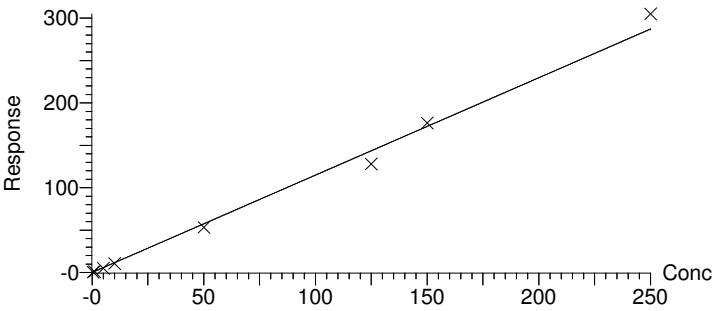
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: FOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	10.9...	25901.314	1109.858	0.373	74.6	0.857	24623		0.94
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	10.9...	25152.484	2551.589	0.883	88.3	1.014	56822		1.07
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	10.9...	25866.703	12900.008	4.342	86.8	0.997	1649	8	0.96
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	10.9...	24688.834	25772.852	9.090	90.9	1.044	1380	19	1.05
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	10.9...	24116.709	128646.336	46.448	92.9	1.067	5591	23359	1.12
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	10.9...	22877.146	292405.250	111.293	89.0	1.023	10602	454	0.97
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	10.9...	21293.096	375537.875	153.567	102.4	1.176	9315	148	1.00
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	10.9...	20238.887	617127.125	265.504	106.2	1.220	10107	365	0.99

Compound name: FOSA
Coefficient of Determination: R^2 = 0.994785
Calibration curve: 1.14846 * x
Response type: Internal Std (Ref 46), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



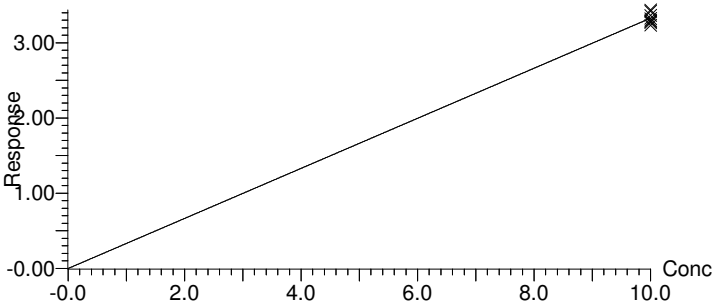
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: M8FOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	10.9...	80079.516	25901.314	9.719	97.2	0.323	857		1.07
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	10.9...	76676.766	25152.484	9.857	98.6	0.328	498016		0.96
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	10.9...	77891.875	25866.703	9.979	99.8	0.332	2870		1.07
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	10.9...	75604.555	24688.834	9.813	98.1	0.327	3028		1.03
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	10.9...	71662.531	24116.709	10.113	101.1	0.337	1974		1.06
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	10.9...	66549.375	22877.146	10.330	103.3	0.344	444952		1.02
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	10.9...	64591.344	21293.096	9.906	99.1	0.330	3114		0.97
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	10.9...	59141.133	20238.887	10.283	102.8	0.342	385808		1.06

Compound name: M8FOSA
Response Factor: 0.332785
RRF SD: 0.00739072, % Relative SD: 2.22087
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



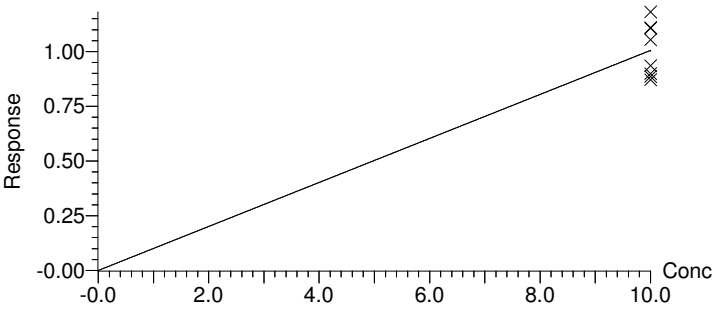
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: d5-NEtFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.208	80079.516	6972.096	8.660	86.6	0.087	689		1.10
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.203	76676.766	6795.285	8.815	88.1	0.089	151		1.10
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.203	77891.875	7283.549	9.301	93.0	0.094	244		0.91
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.198	75604.555	6799.789	8.946	89.5	0.090	381		1.01
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.193	71662.531	7551.751	10.481	104.8	0.105	294		1.04
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.193	66549.375	7386.163	11.039	110.4	0.111	349		1.07
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.193	64591.344	7149.068	11.009	110.1	0.111	283		1.04
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.193	59141.133	6986.069	11.749	117.5	0.118	409		1.04

Compound name: d5-NEtFOSAA
Response Factor: 0.100539
RRF SD: 0.0121309, % Relative SD: 12.0659
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



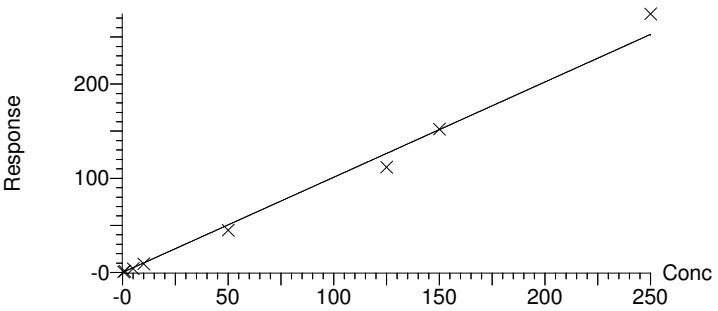
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Compound name: NEtFOSAA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.213	6972.096	387.379	0.549	109.9	1.111	20	4937	1.15
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.218	6795.285	809.999	1.179	117.9	1.192	33	237	1.06
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.208	7283.549	2955.046	4.012	80.2	0.811	105	20988	1.12
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.208	6799.789	6225.610	9.054	90.5	0.916	169	323	1.03
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.203	7551.751	33831.453	44.304	88.6	0.896	652	859	1.02
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.203	7386.163	82534.102	110.506	88.4	0.894	1576	933	1.03
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.203	7149.068	108734.508	150.414	100.3	1.014	3607	1144	1.03
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.203	6986.069	191779.578	271.481	108.6	1.098	3430	1576	0.99

Compound name: NEtFOSAA
Coefficient of Determination: R^2 = 0.992212
Calibration curve: 1.01118 * x
Response type: Internal Std (Ref 47), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



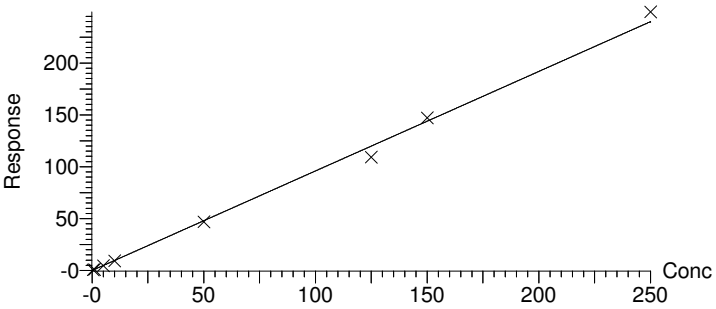
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Compound name: PFDoA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.564	85334.609	4213.817	0.515	102.9	0.988	109	51	0.84
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.560	77038.258	7534.214	1.019	101.9	0.978	189	6	0.78
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.552	82862.805	37151.672	4.672	93.4	0.897	716	297	0.93
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.552	82350.813	75754.633	9.586	95.9	0.920	2481	429	0.92
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.548	79468.102	371732.094	48.745	97.5	0.936	7701	1769	0.92
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.548	74371.125	813348.313	113.963	91.2	0.875	14632	1672	0.91
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.548	72531.453	1066659.875	153.247	102.2	0.980	13666	2587	0.94
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.548	70079.352	1746858.875	259.753	103.9	0.997	22889	4366	0.91

Compound name: PFDoA
Coefficient of Determination: R^2 = 0.997395
Calibration curve: 0.959638 * x
Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



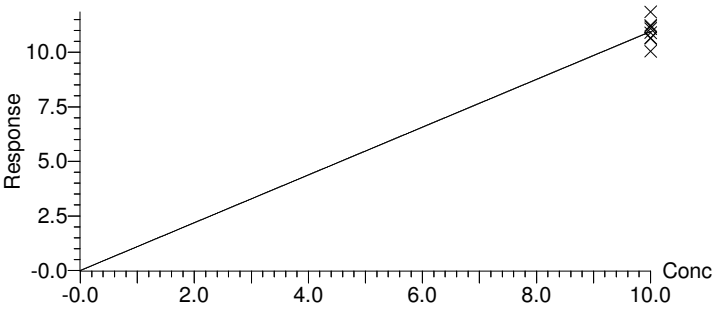
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: MPFDOA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.560	80079.516	85334.609	9.734	97.3	1.066	3442		0.98
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.556	76676.766	77038.258	9.178	91.8	1.005	2637		0.95
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.552	77891.875	82862.805	9.718	97.2	1.064	2518		0.95
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.552	75604.555	82350.813	9.950	99.5	1.089	2952		0.93
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.548	71662.531	79468.102	10.130	101.3	1.109	2935		0.92
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.548	66549.375	74371.125	10.208	102.1	1.118	4675		0.93
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.548	64591.344	72531.453	10.258	102.6	1.123	3400		0.93
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.548	59141.133	70079.352	10.824	108.2	1.185	884		0.93

Compound name: MPFDOA
Response Factor: 1.09472
RRF SD: 0.0529044, % Relative SD: 4.83271
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



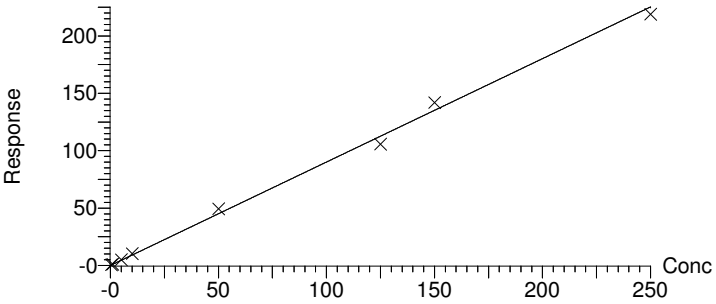
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Compound name: PFTrDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.972	85334.609	5049.431	0.657	131.3	1.183	92	14	0.92
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.972	77038.258	9468.866	1.364	136.4	1.229	191	33	0.78
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.968	82862.805	41336.715	5.536	110.7	0.998	691	189	0.83
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.968	82350.813	85697.555	11.548	115.5	1.041	1410	244	0.85
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.964	79468.102	391242.813	54.633	109.3	0.985	7356	1258	0.82
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.964	74371.125	786034.688	117.285	93.8	0.846	9284	1183	0.85
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.964	72531.453	1029301.000	157.478	105.0	0.946	11782	2580	0.87
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.964	70079.352	1534590.000	243.000	97.2	0.876	14893	3911	0.82

Compound name: PFTrDA
Coefficient of Determination: R^2 = 0.996569
Calibration curve: 0.901148 * x
Response type: Internal Std (Ref 50), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



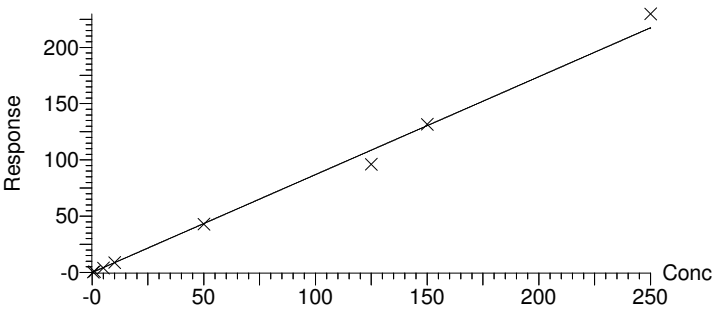
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Compound name: PFTA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	12.3...	69197.125	2899.898	0.482	96.4	0.838	101	153	0.85
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	12.3...	65113.305	5856.875	1.034	103.4	0.899	181	16514	0.96
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	12.3...	71609.664	28473.520	4.572	91.4	0.795	821	69233	0.91
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	12.3...	66636.852	57992.625	10.007	100.1	0.870	1842	936	0.84
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	12.3...	66026.500	282667.031	49.225	98.4	0.856	4366	3538	0.87
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	12.3...	65481.293	629957.188	110.617	88.5	0.770	12389	4675	0.84
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	12.3...	62970.875	829287.500	151.423	100.9	0.878	17158	7928	0.84
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	12.3...	59456.906	1365871.875	264.140	105.7	0.919	22721	6402	0.87

Compound name: PFTA
Coefficient of Determination: R^2 = 0.995624
Calibration curve: 0.869706 * x
Response type: Internal Std (Ref 53), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



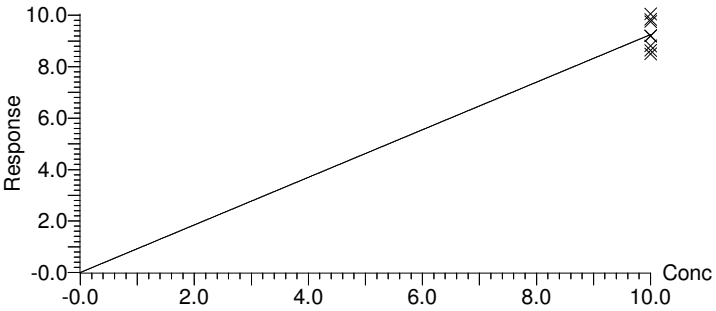
all concentration units in (ng/mL)

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Compound name: M2PFTEDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	12.3...	80079.516	69197.125	9.342	93.4	0.864	5757		0.85
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	12.3...	76676.766	65113.305	9.181	91.8	0.849	2028		0.83
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	12.3...	77891.875	71609.664	9.939	99.4	0.919	5143		0.89
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	12.3...	75604.555	66636.852	9.529	95.3	0.881	3285		0.94
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	12.3...	71662.531	66026.500	9.961	99.6	0.921	4481		0.89
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	12.3...	66549.375	65481.293	10.638	106.4	0.984	5169		0.85
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	12.3...	64591.344	62970.875	10.540	105.4	0.975	2330		0.84
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	12.3...	59141.133	59456.906	10.869	108.7	1.005	3421		0.88

Compound name: M2PFTEDA
Response Factor: 0.924948
RRF SD: 0.0583379, % Relative SD: 6.30715
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



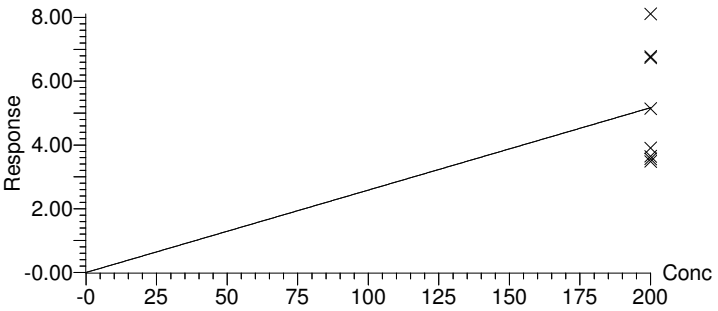
all concentration units in (ng/mL)

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Compound name: M3HFPO-DA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	7.339	97894.000	34138.469	134.898	67.4	0.017	661432		1.02
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	7.335	93843.227	33407.383	137.708	68.9	0.018	15617		0.99
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	7.328	95310.469	34709.828	140.874	70.4	0.018	671490		1.06
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	7.332	93436.430	36471.293	150.992	75.5	0.020	708647		1.02
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	7.328	91478.742	46995.914	198.728	99.4	0.026	12989		1.10
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	7.325	87937.320	59274.879	260.745	130.4	0.034	1068289		1.17
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	7.322	87894.578	59580.410	262.217	131.1	0.034	1067243		1.21
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	7.308	81610.086	66211.063	313.838	156.9	0.041	1081279		1.34

Compound name: M3HFPO-DA
Response Factor: 0.0258512
RRF SD: 0.00907924, % Relative SD: 35.1211
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF



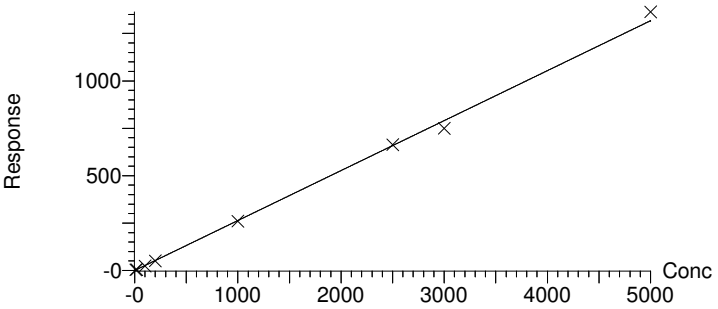
all concentration units in (ng/mL)

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Compound name: HFPO-DA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	7.337	34138.469	437.757	9.732	97.3	0.256	9491	21	1.15
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	7.337	33407.383	747.271	16.977	84.9	0.224	1307	46	1.01
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	7.330	34709.828	4156.163	90.881	90.9	0.239	89423	34799	1.12
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	7.331	36471.293	9167.349	190.776	95.4	0.251	191899	1170	1.11
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	7.330	46995.914	60897.352	983.489	98.3	0.259	1269832	486831	1.13
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	7.323	59274.879	196791.125	2519.801	100.8	0.266	13898	3482	1.32
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	7.324	59580.410	223125.813	2842.351	94.7	0.250	127165	17545	1.28
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	7.306	66211.063	451536.531	5175.993	103.5	0.273	121518	26618	1.56

Compound name: HFPO-DA
Coefficient of Determination: R^2 = 0.998553
Calibration curve: 0.263511 * x
Response type: Internal Std (Ref 54), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



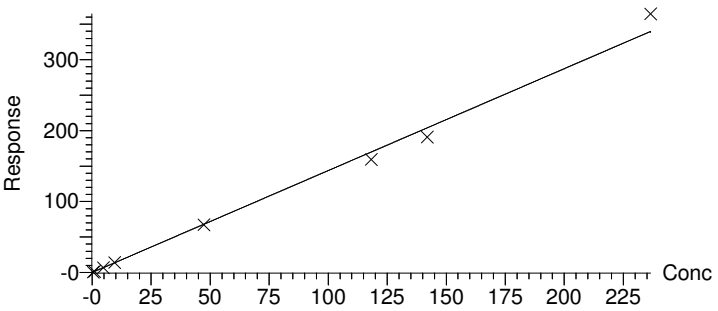
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Alpha Analytical Inc.
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Compound name: ADONA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	8.384	96273.625	5574.746	0.403	85.2	1.224	110462		0.90
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	8.377	89290.797	11514.171	0.898	94.9	1.363	1567		0.99
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	8.373	96741.789	63720.441	4.585	96.9	1.392	5643		0.98
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	8.380	93890.203	130322.734	9.661	102.1	1.467	5279		0.99
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	8.377	93543.516	627850.750	46.717	98.7	1.419	28143		0.97
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	8.380	87982.359	1400262.250	110.776	93.7	1.346	30649		0.99
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	8.377	86628.758	1653982.000	132.893	93.6	1.345	91562		1.02
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	8.377	80389.586	2930639.750	253.744	107.3	1.541	54958		0.98

Compound name: ADONA
Coefficient of Determination: R^2 = 0.995726
Calibration curve: 1.4367 * x
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



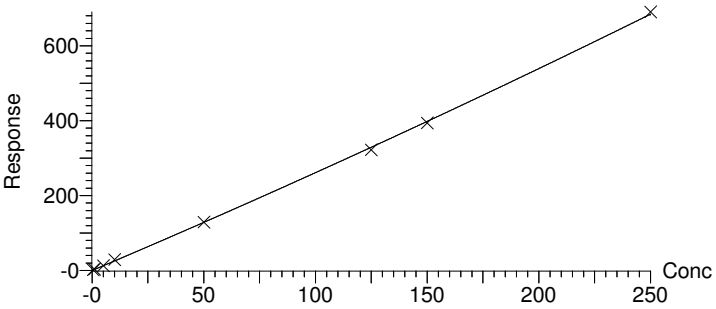
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: PFHxDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	12.7...	21825.291	3155.532	0.572	114.3	2.892	205		1.03
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	12.7...	20155.680	6588.839	1.292	129.2	3.269	392		0.96
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	12.7...	22207.254	28976.256	5.150	103.0	2.610	1936		1.05
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	12.7...	20781.037	60167.711	11.405	114.1	2.895	4227		1.07
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	12.7...	21450.691	277563.375	50.324	100.6	2.588	11141		1.03
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	12.7...	18900.529	608760.813	122.388	97.9	2.577	24045		1.03
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	12.7...	18283.150	719713.563	148.353	98.9	2.624	44182		1.00
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	12.7...	17299.199	1194794.375	252.032	100.8	2.763	65056		1.05

Compound name: PFHxDA
Coefficient of Determination: R^2 = 0.999358
Calibration curve: 0.000838448 * x^2 + 2.52906 * x
Response type: Internal Std (Ref 59), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



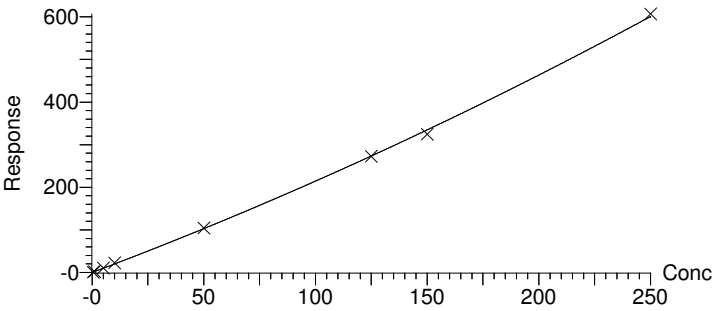
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: PFODA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	12.9...	21825.291	2362.137	0.548	109.6	2.165	111		1.43
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	12.9...	20155.680	4802.961	1.206	120.6	2.383	212		0.99
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	12.9...	22207.254	22868.643	5.195	103.9	2.060	1078		1.00
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	12.9...	20781.037	46901.273	11.326	113.3	2.257	1840		0.95
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	12.9...	21450.691	223735.219	50.624	101.2	2.086	8238		0.97
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	12.9...	18900.529	514803.281	124.515	99.6	2.179	19897		0.95
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	12.9...	18283.150	593979.313	146.043	97.4	2.166	21421		0.94
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	12.9...	17299.199	1049976.875	252.147	100.9	2.428	34610		0.92

Compound name: PFODA
Coefficient of Determination: R^2 = 0.999407
Calibration curve: 0.00172088 * x^2 + 1.97321 * x
Response type: Internal Std (Ref 59), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



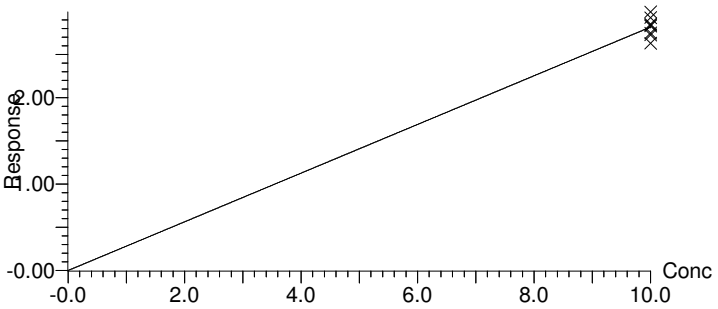
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: M2PFHxDA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	12.7...	80079.516	21825.291	9.672	96.7	0.273	3626		1.01
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	12.7...	76676.766	20155.680	9.329	93.3	0.263	10680		0.97
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	12.7...	77891.875	22207.254	10.118	101.2	0.285	6871		1.02
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	12.7...	75604.555	20781.037	9.754	97.5	0.275	4916		1.05
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	12.7...	71662.531	21450.691	10.623	106.2	0.299	10729		0.91
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	12.7...	66549.375	18900.529	10.079	100.8	0.284	15493		1.02
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	12.7...	64591.344	18283.150	10.045	100.5	0.283	6520		0.99
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	12.7...	59141.133	17299.199	10.380	103.8	0.293	10129		1.09

Compound name: M2PFHxDA
Response Factor: 0.281785
RRF SD: 0.0115359, % Relative SD: 4.09388
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



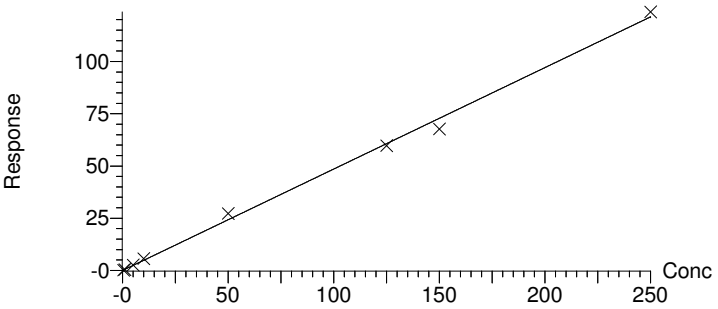
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Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: PFDoS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.976	9113.684	123.619	0.279	55.9	0.271	29	17	0.81
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.960	7983.817	348.624	0.899	89.9	0.437	46	2593	0.90
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.960	8461.475	2265.340	5.514	110.3	0.535	1928	12	0.81
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.960	8499.692	4781.683	11.586	115.9	0.563	79685	38672	0.89
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.951	8043.667	21873.611	56.007	112.0	0.544	1042	163023	0.95
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.955	7505.442	44840.586	123.046	98.4	0.478	708028	2430	0.89
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.955	7353.014	49730.980	139.294	92.9	0.451	7500	3401	0.89
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.951	6829.017	84510.633	254.874	101.9	0.495	10640	7315	0.94

Compound name: PFDoS
Coefficient of Determination: R^2 = 0.996484
Calibration curve: 0.485543 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



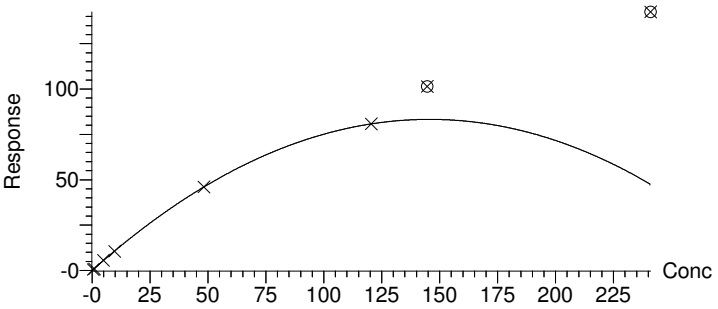
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: 10:2FTS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.577	2603.371	138.396	0.465	96.5	1.103	2704		1.01
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.581	2465.874	219.391	0.780	80.9	0.923	4047		0.64
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.565	2720.764	1529.086	4.998	103.7	1.166	417		0.98
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.565	2969.014	3166.504	9.641	100.0	1.106	335		0.90
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.561	3312.228	15263.286	48.282	100.2	0.956	1532		0.95
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.565	4183.437	33794.242	120.342	99.9	0.670	2541		0.87
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.565	3869.740	39247.555			0.701	704444		0.89
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.561	4693.819	66895.125			0.591	1182839		0.94

Compound name: 10:2FTS
Coefficient of Determination: R^2 = 0.999495
Calibration curve: -0.0039296 * x^2 + 1.14416 * x
Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
Curve type: 2nd Order, Origin: Force, Weighting: 1/x, Axis trans: None



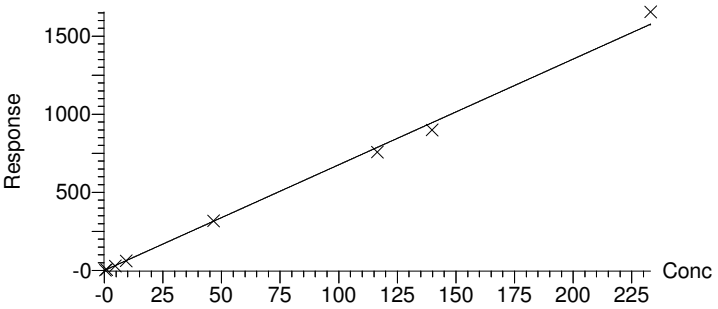
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: 9CL-PF3ONS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	10.3...	9113.684	1918.917	0.311	66.8	4.518	30633		0.95
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	10.3...	7983.817	4518.121	0.836	89.7	6.072	254		0.99
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	10.3...	8461.475	24208.213	4.228	90.7	6.139	785		0.95
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	10.3...	8499.692	52572.004	9.141	98.1	6.636	4048		0.97
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	10.311	8043.667	255807.594	46.999	100.9	6.825	13566		0.94
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	10.311	7505.442	569537.938	112.145	96.3	6.514	10462		0.95
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	10.311	7353.014	661756.250	133.004	95.1	6.438	46588		0.96
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	10.311	6829.017	1130336.250	244.614	105.0	7.104	23103		0.95

Compound name: 9CL-PF3ONS
Coefficient of Determination: R^2 = 0.997802
Calibration curve: 6.76657 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



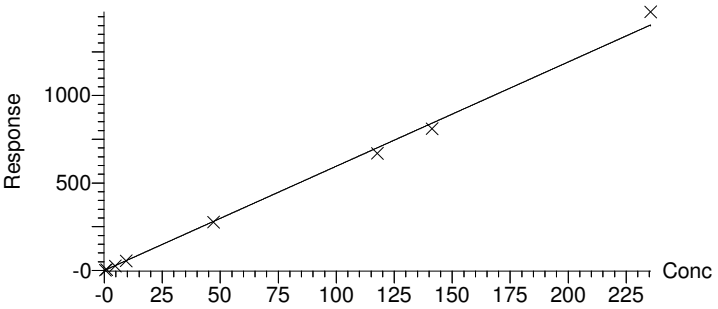
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: 11CL-PFOUdS

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.363	9113.684	1880.323	0.346	73.5	4.380	142		1.02
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.358	7983.817	3757.990	0.790	83.8	4.997	53891		1.02
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.353	8461.475	21914.848	4.345	92.3	5.499	5894		1.00
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.353	8499.692	46785.359	9.235	98.0	5.843	2104		0.97
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.348	8043.667	221513.016	46.204	98.1	5.847	13843		0.99
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.348	7505.442	502568.250	112.346	95.4	5.687	17748		0.99
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.353	7353.014	595565.563	135.895	96.2	5.732	16518		0.92
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.348	6829.017	1009548.250	248.032	105.3	6.277	43660		0.98

Compound name: 11CL-PFOUdS
Coefficient of Determination: R^2 = 0.997737
Calibration curve: 5.96021 * x
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



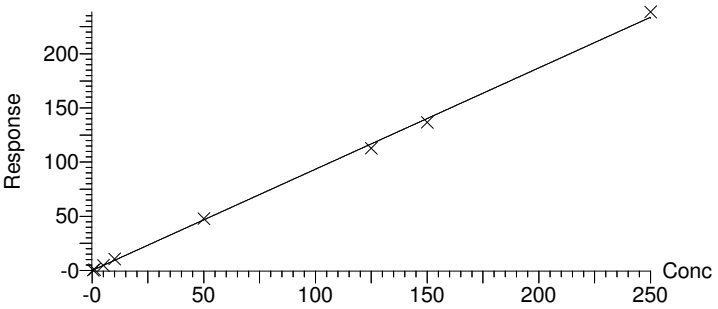
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: NMeFOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.549	7918.882	313.514	0.423	84.7	0.792	5383	37	1.11
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.549	8155.033	747.418	0.980	98.0	0.917	12304	7763	0.91
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.541	8364.774	3935.583	5.032	100.6	0.941	2052	42085	0.99
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.541	8182.690	8715.477	11.391	113.9	1.065	201	90370	0.99
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.537	8533.415	40951.434	51.323	102.6	0.960	1309	1570	0.97
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.537	8252.962	93166.859	120.730	96.6	0.903	2845	2053	0.98
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.537	8000.675	109516.180	146.392	97.6	0.913	6436	7426	0.99
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.537	7946.232	189638.234	255.229	102.1	0.955	12388	3416	0.99

Compound name: NMeFOSA
Coefficient of Determination: R^2 = 0.998983
Calibration curve: 0.935051 * x
Response type: Internal Std (Ref 65), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



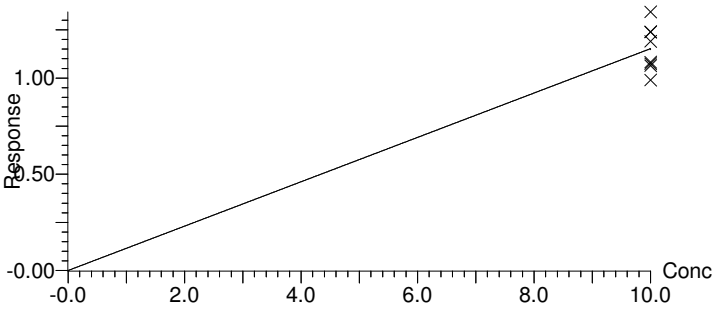
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Compound name: d3-NMeFOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.541	80079.516	7918.882	8.579	85.8	0.099	781		1.06
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.541	76676.766	8155.033	9.226	92.3	0.106	1389		0.94
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.533	77891.875	8364.774	9.316	93.2	0.107	329		0.97
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.533	75604.555	8182.690	9.389	93.9	0.108	498		0.98
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.529	71662.531	8533.415	10.330	103.3	0.119	440		0.97
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.529	66549.375	8252.962	10.758	107.6	0.124	603		0.97
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.533	64591.344	8000.675	10.745	107.5	0.124	695		0.94
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.533	59141.133	7946.232	11.656	116.6	0.134	1077		0.91

Compound name: d3-NMeFOSA
Response Factor: 0.115273
RRF SD: 0.011885, % Relative SD: 10.3103
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



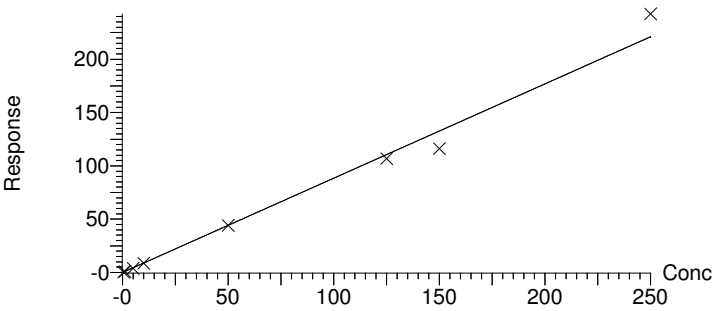
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: NEtFOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.845	11122.487	289.642	0.294	58.9	0.521	5147		1.04
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.845	10609.649	837.073	0.892	89.2	0.789	52	35	0.97
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.841	11197.601	4433.973	4.477	89.5	0.792	73929	334	0.99
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.841	10587.846	9072.514	9.687	96.9	0.857	113	1130	0.97
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.837	10562.082	46527.895	49.802	99.6	0.881	5874	1835	0.96
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.837	10264.314	109729.984	120.859	96.7	0.855	17683	1331	1.00
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.837	10906.344	126660.820	131.294	87.5	0.774	4752	2304	1.00
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.837	9620.529	233333.047	274.195	109.7	0.970	13859	7316	0.99

Compound name: NEtFOSA
Coefficient of Determination: R^2 = 0.991435
Calibration curve: 0.884541 * x
Response type: Internal Std (Ref 67), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



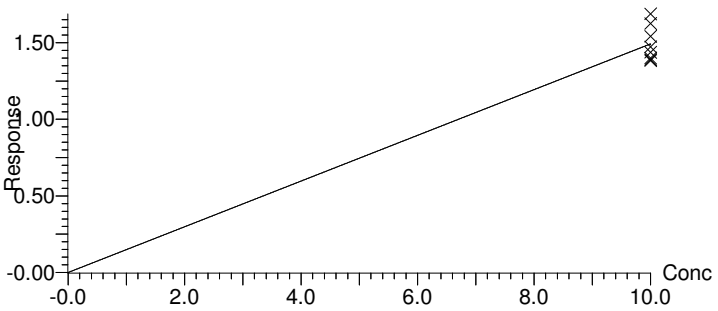
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: d5-NEtFOSA

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.837	80079.516	11122.487	9.304	93.0	0.139	2538		0.97
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.833	76676.766	10609.649	9.269	92.7	0.138	177236		1.02
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.829	77891.875	11197.601	9.630	96.3	0.144	1963		0.98
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.829	75604.555	10587.846	9.381	93.8	0.140	2516		1.00
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.825	71662.531	10562.082	9.873	98.7	0.147	3394		0.97
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.825	66549.375	10264.314	10.332	103.3	0.154	200		1.02
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.825	64591.344	10906.344	11.311	113.1	0.169	1574		1.03
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.825	59141.133	9620.529	10.897	109.0	0.163	499		1.00

Compound name: d5-NEtFOSA
Response Factor: 0.149276
RRF SD: 0.0115466, % Relative SD: 7.7351
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



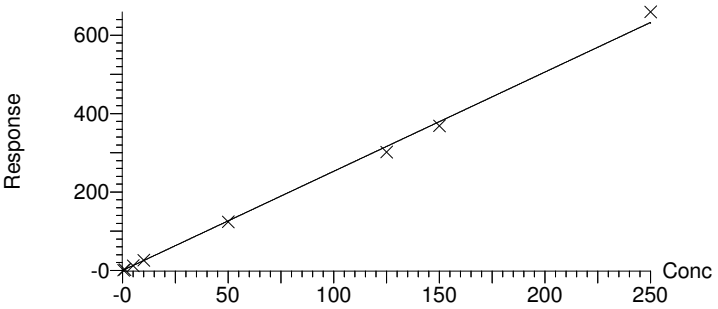
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: NMeFOSE

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.556	6352.404	759.010	0.472	94.5	2.390	96		0.96
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.548	6141.272	1470.830	0.947	94.7	2.395	114		1.05
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.544	6262.359	7473.680	4.717	94.3	2.387	336		0.99
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.544	6006.268	15535.948	10.225	102.2	2.587	1106		0.96
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.540	5999.664	74594.250	49.146	98.3	2.487	3356		0.95
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.540	5365.026	162122.219	119.448	95.6	2.417	3189		0.97
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.540	5185.325	191436.406	145.935	97.3	2.461	8449		0.99
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.540	4794.863	316124.188	260.610	104.2	2.637	6931		0.98

Compound name: NMeFOSE
Coefficient of Determination: R^2 = 0.998525
Calibration curve: 2.52982 * x
Response type: Internal Std (Ref 69), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



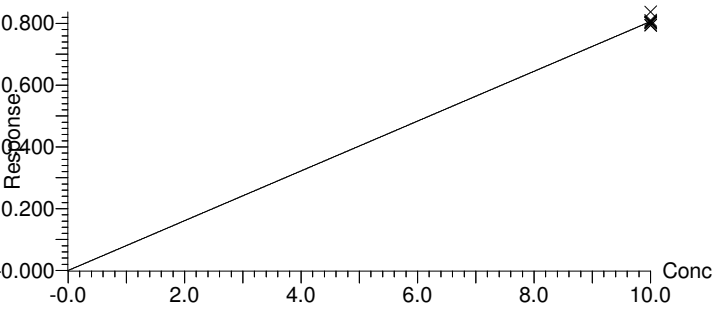
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: d7-NMeFOSE

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.540	80079.516	6352.404	9.840	98.4	0.079	154		0.93
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.535	76676.766	6141.272	9.935	99.3	0.080	157		0.92
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.527	77891.875	6262.359	9.973	99.7	0.080	231		0.95
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.527	75604.555	6006.268	9.854	98.5	0.079	189		0.94
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.523	71662.531	5999.664	10.385	103.8	0.084	187		0.89
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.523	66549.375	5365.026	10.000	100.0	0.081	177		0.92
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.523	64591.344	5185.325	9.958	99.6	0.080	126		0.97
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.523	59141.133	4794.863	10.057	100.6	0.081	201		0.93

Compound name: d7-NMeFOSE
Response Factor: 0.0806191
RRF SD: 0.00137973, % Relative SD: 1.71142
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



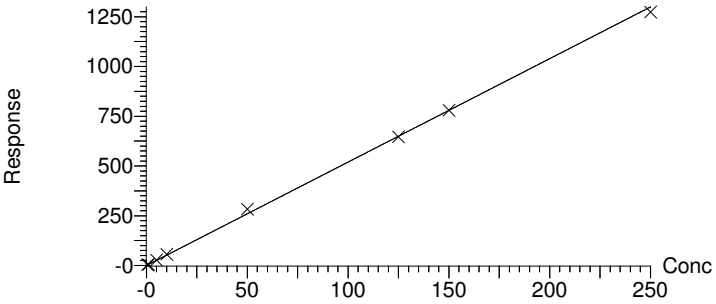
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: NEtFOSE

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.835	2969.325	744.263	0.482	96.4	5.013	146		1.04
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.835	3147.501	1450.848	0.887	88.7	4.610	134		1.01
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.826	2738.603	7686.916	5.400	108.0	5.614	296		1.04
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.830	2813.187	15762.573	10.780	107.8	5.603	833		0.98
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.822	2725.236	77210.492	54.506	109.0	5.666	2888		1.04
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.826	2732.599	176502.766	124.265	99.4	5.167	4445		0.98
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.826	2650.203	206671.438	150.029	100.0	5.199	6623		1.00
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.822	2810.010	358068.469	245.150	98.1	5.097	10867		1.06

Compound name: NEtFOSE
Coefficient of Determination: R^2 = 0.998933
Calibration curve: 5.19787 * x
Response type: Internal Std (Ref 71), Area * (IS Conc. / IS Area)
Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



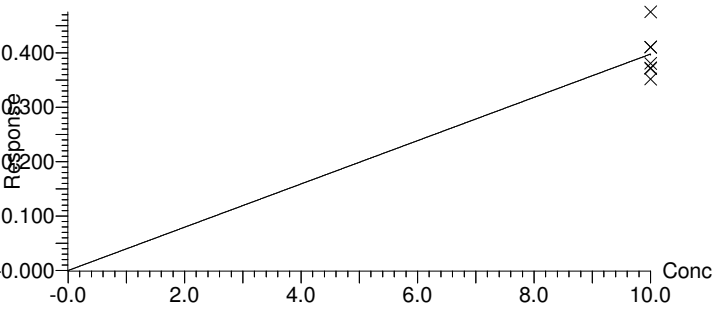
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:10:09 Eastern Daylight Time

Compound name: d9-NEtFOSE

	Name	ID	Acq.Date	Acq.Time	RT	IS Area	Area	Conc (ng...	%Rec	RRF	1º S/N	2º S/N	(b/a)
1	I5634	IA2-537STD0.5	01-Jul-19	17:57:23	11.818	80079.516	2969.325	9.324	93.2	0.037	78		1.05
2	I5635	IA2-537STD1.0	01-Jul-19	18:13:58	11.814	76676.766	3147.501	10.323	103.2	0.041	129		1.03
3	I5636	IA2-537STD5.0	01-Jul-19	18:30:29	11.810	77891.875	2738.603	8.841	88.4	0.035	91		1.00
4	I5637	IA2-537STD10.0	01-Jul-19	18:47:03	11.810	75604.555	2813.187	9.357	93.6	0.037	92		1.01
5	I5638	IA2-537STD50.0	01-Jul-19	19:03:37	11.806	71662.531	2725.236	9.563	95.6	0.038	139		1.05
6	I5639	IA2-537STD125	01-Jul-19	19:20:11	11.806	66549.375	2732.599	10.326	103.3	0.041	102		1.02
7	I5640	IA2-537STD150	01-Jul-19	19:36:40	11.806	64591.344	2650.203	10.318	103.2	0.041	72		1.05
8	I5641	IA2-537STD250	01-Jul-19	19:53:14	11.806	59141.133	2810.010	11.948	119.5	0.048	109		0.93

Compound name: d9-NEtFOSE
Response Factor: 0.0397664
RRF SD: 0.00383486, % Relative SD: 9.64349
Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)
Curve type: RF



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:30 Eastern Daylight Time

Method: C:\MassLynx\Data\2019\190701_537ISO.PRO\MethDB\537ISO_Q_190702_DOD.mdb 17 Jun 2019 11:52:40
Calibration: C:\MassLynx\Data\2019\190701_537ISO.PRO\CurveDB\190702_ISO_ICAL.cdb 02 Jul 2019 11:07:37

ID: IA2-537STD0.5
Name: I5634
Date: 01-Jul-2019
Time: 17:57:23
Description: WG1255219,,537_190524_1
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.10	212.926 > 169.111	1907		0.472		na	94.4
2	M3PFBA	INT STD	2.10	215.926 > 172.122	39786		10.287		na	102.9
3	MPFBA	INT STD	2.11	216.926 > 172.137	44372		9.946		na	99.5
4	PFPeA	2706-90-3	4.99	262.926 > 219.002	3731		0.563		na	112.5
5	M5PFPEA	INT STD	4.99	267.989 > 223.081	64624		10.233		na	102.3
6	PFBS	375-73-5	5.65	298.926 > 79.923	630		0.399	1.82	YES	90.2
7	M3PFBS	INT STD	5.65	301.989 > 80.254	10609		9.686		na	96.9
8	4:2FTS	757124-72-4	6.82	326.926 > 306.957	226		0.438	1.80	NO	93.6
9	M2-4:2FTS	INT STD	6.83	329.117 > 309.079	4969		7.570		na	75.7
10	PFHxA	307-24-4	6.90	312.989 > 269.028	5711		0.699	18.80	NO	139.8
11	M5PFHxA	INT STD	6.91	317.989 > 273.045	82660		10.016		na	100.2
12	PFPeS	2706-91-4	7.23	348.926 > 80.251	455		0.369	1.79	NO	78.4
13	PFHpA	375-85-9	8.20	362.926 > 319.014	4691		0.437	5.80	NO	87.4
14	M4PFHpA	INT STD	8.20	366.926 > 321.979	107694		10.242		na	102.4
15	br-PFHxS	355-46-4	8.13	398.926 > 80.295	18	M5	0.027		YES	32.2
16	L-PFHxS	355-46-4	8.36	398.926 > 80.295	284	M4	0.302	1.38	YES	81.7
17	PFHxS	355-46-4		398.926 > 80.295	301		0.330		na	
18	M3PFHxS	INT STD	8.36	401.926 > 80.317	6932		10.211		na	102.1
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1	9.15	412.989 > 368.9	4556		0.477	10.28	NO	95.4
21	M2PFOA	INT STD	9.15	415.032 > 369.968	97894		10.737		na	107.4
22	PFOA	335-67-1		412.989 > 368.9	4556		0.477		na	
23	M8PFOA	INT STD	9.15	420.989 > 375.979	96274		9.898		na	99.0
24	6:2FTS	27619-97-2	9.12	426.989 > 406.921	223		0.607		YES	127.8
25	M2-6:2FTS	INT STD	9.11	428.989 > 408.917	4566		7.720		na	77.2
26	PFHpS	375-92-8	9.24	448.926 > 80.257	263		0.402	1.03	NO	84.7
27	PFNA	375-95-1	9.91	462.989 > 418.931	4071		0.487	5.20	NO	97.4
28	M9PFNA	INT STD	9.91	472.053 > 426.947	92138		10.230		na	102.3
29	br-PFOS	1763-23-1	9.78	498.989 > 80.294	69	M5	0.070	0.46	NO	70.0
30	L-PFOS	1763-23-1	9.96	498.989 > 80.294	276		0.294		YES	80.6
31	PFOS	1763-23-1		498.989 > 80.294	345		0.364		na	
32	M4PFOS	INT STD	9.96	503.032 > 80.306	8229		11.065		na	110.6
33	M8PFOS	INT STD	9.96	507.053 > 80.294	9114		10.283		na	102.8
34	PFDA	335-76-2	10.55	513.053 > 468.906	3955		0.489	7.34	NO	97.8
35	M2PFDA	INT STD	10.55	515.053 > 469.934	80080		11.196		na	112.0
36	M6PFDA	INT STD	10.55	519.053 > 473.931	89404		9.985		na	99.9
37	8:2FTS	39108-34-4	10.54	526.926 > 506.818	133		0.468		na	97.5
38	M2-8:2FTS	INT STD	10.54	529.053 > 508.945	2603		8.020		na	80.2
39	PFNS	68259-12-1	10.58	548.989 > 80.249	257		0.283	1.18	NO	59.1

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:30 Eastern Daylight Time

ID: IA2-537STD0.5
Name: I5634
Date: 01-Jul-2019
Time: 17:57:23
Description: WG1255219,,537_190524_1
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.92	573.096 > 418.987	8131		9.151		na	91.5
41	NMeFOSAA	2355-31-9	10.92	570.053 > 418.917	419		0.508	2.37	NO	101.5
42	PFUnA	2058-94-8	11.09	562.989 > 518.903	3853		0.467	11.07	NO	93.4
43	M7-PFUDA	INT STD	11.09	570.053 > 524.923	80299		10.142		na	101.4
44	PFDS	335-77-3	11.10	598.926 > 80.314	215		0.321	0.60	NO	66.5
45	FOSA	754-91-6	10.94	497.989 > 78.245	1110		0.373		YES	74.6
46	M8FOSA	INT STD	10.94	506.053 > 78.286	25901		9.719		na	97.2
47	d5-NEtFOSAA	INT STD	11.21	589.117 > 418.929	6972		8.660		na	86.6
48	NEtFOSAA	2991-50-6	11.21	583.989 > 418.927	387		0.549	2.12	NO	109.9
49	PFDoA	307-55-1	11.56	612.989 > 568.967	4214		0.515	11.06	NO	102.9
50	MPFDOA	INT STD	11.56	614.989 > 569.92	85335		9.734		na	97.3
51	PFTrDA	72629-94-8	11.97	663.053 > 618.969	5049		0.657	16.79	NO	131.3
52	PFTA	376-06-7	12.34	713.053 > 668.976	2900		0.482	12.12	NO	96.4
53	M2PFTEDA	INT STD	12.34	715.053 > 669.945	69197		9.342		na	93.4
54	M3HFPO-DA	INT STD	7.34	331.989 > 286.995	34138		134.898		na	67.4
55	HFPO-DA	13252-13-6	7.34	284.819 > 169.094	438		9.732	3.77	NO	97.3
56	ADONA	958445-44-8	8.38	376.926 > 251.005	5575		0.403		na	85.2
57	PFHxDA		12.75	813.053 > 769.005	3156		0.572		na	114.3
58	PFODA		12.96	912.989 > 869.032	2362		0.548		na	109.6
59	M2PFHxDA		12.75	815.372 > 770.158	21825		9.672		na	96.7
60	PFDoS		11.98	698.649 > 79.853	124		0.279	1.00	NO	55.9
61	10:2FTS		11.58	626.862 > 606.896	138	M2	0.465		na	96.5
62	9CL-PF3ONS		10.32	530.862 > 350.843	1919		0.311		na	66.8
63	11CL-PFOUdS		11.36	630.862 > 450.854	1880		0.346		na	73.5
64	NMeFOSA		11.55	511.804 > 168.906	314		0.423	1.74	NO	84.7
65	d3-NMeFOSA		11.54	514.84 > 168.917	7919		8.579		na	85.8
66	NEtFOSA		11.85	525.84 > 168.92	290		0.294		YES	58.9
67	d5-NEtFOSA		11.84	530.904 > 168.919	11122		9.304		na	93.0
68	NMeFOSE		11.56	615.862 > 58.9	759		0.472		na	94.5
69	d7-NMeFOSE		11.54	622.84 > 58.964	6352		9.840		na	98.4
70	NEtFOSE		11.83	629.862 > 58.899	744		0.482		na	96.4
71	d9-NEtFOSE		11.82	638.734 > 58.964	2969		9.324		na	93.2

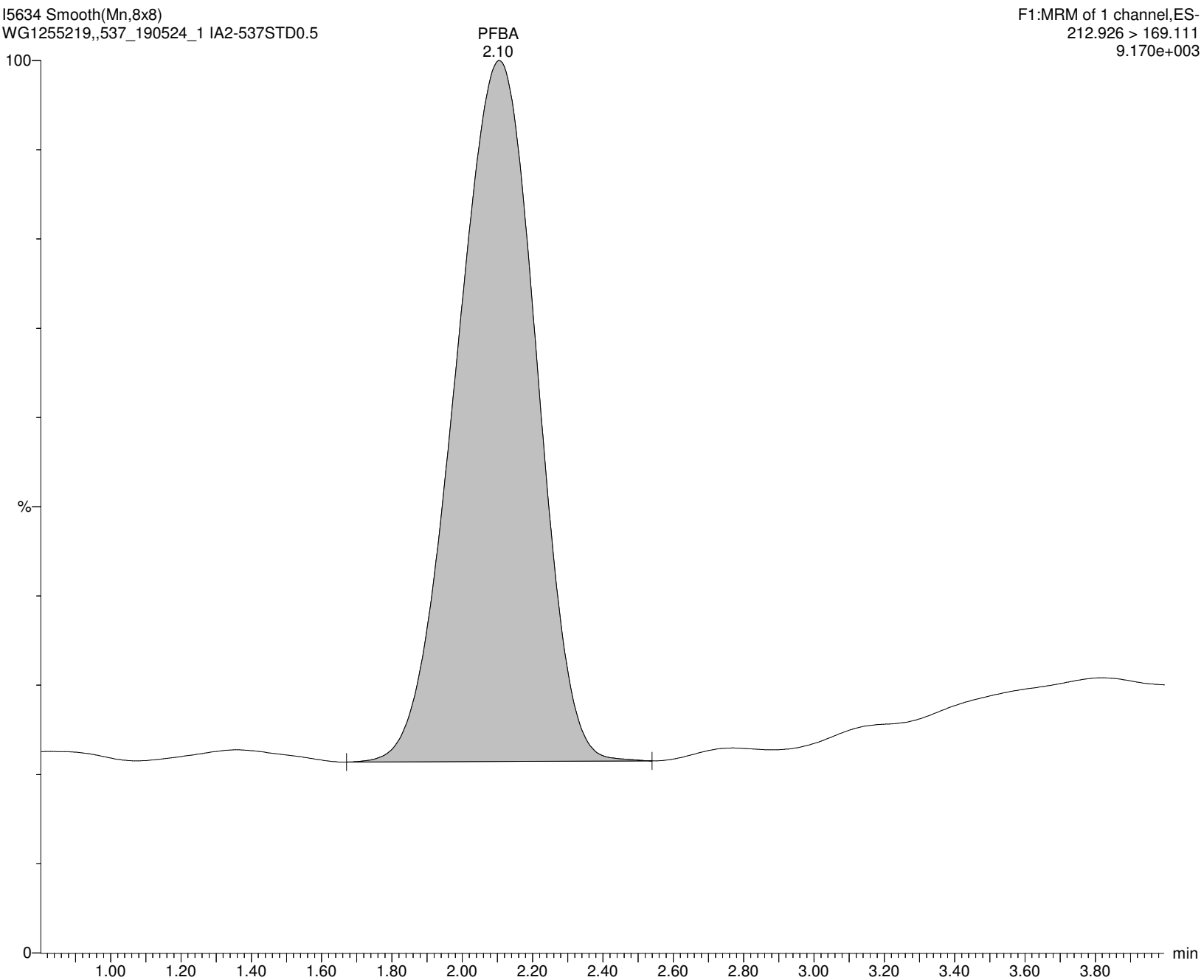
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Name: I5634
ID: IA2-537STD0.5
Date: 01-Jul-2019
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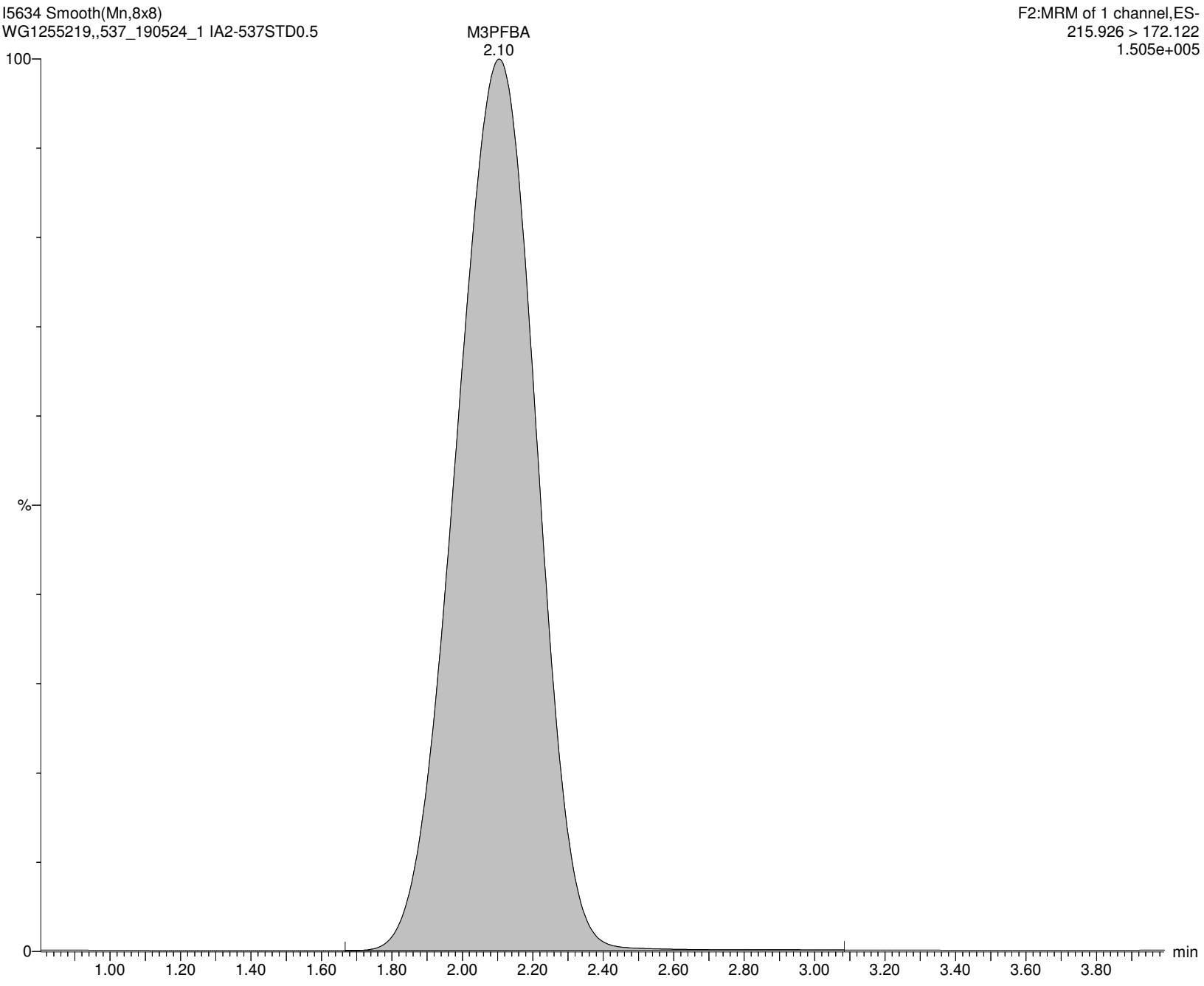


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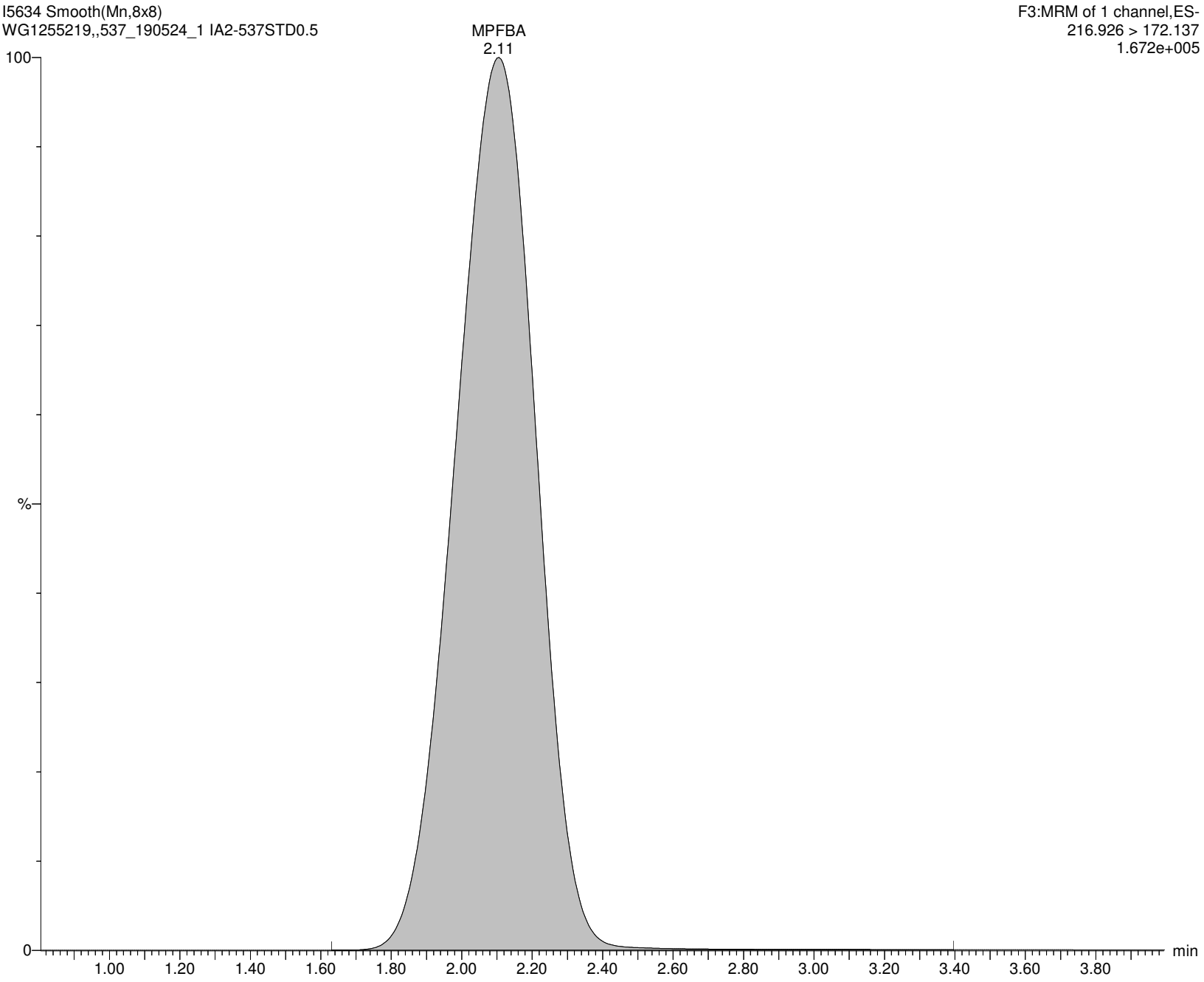


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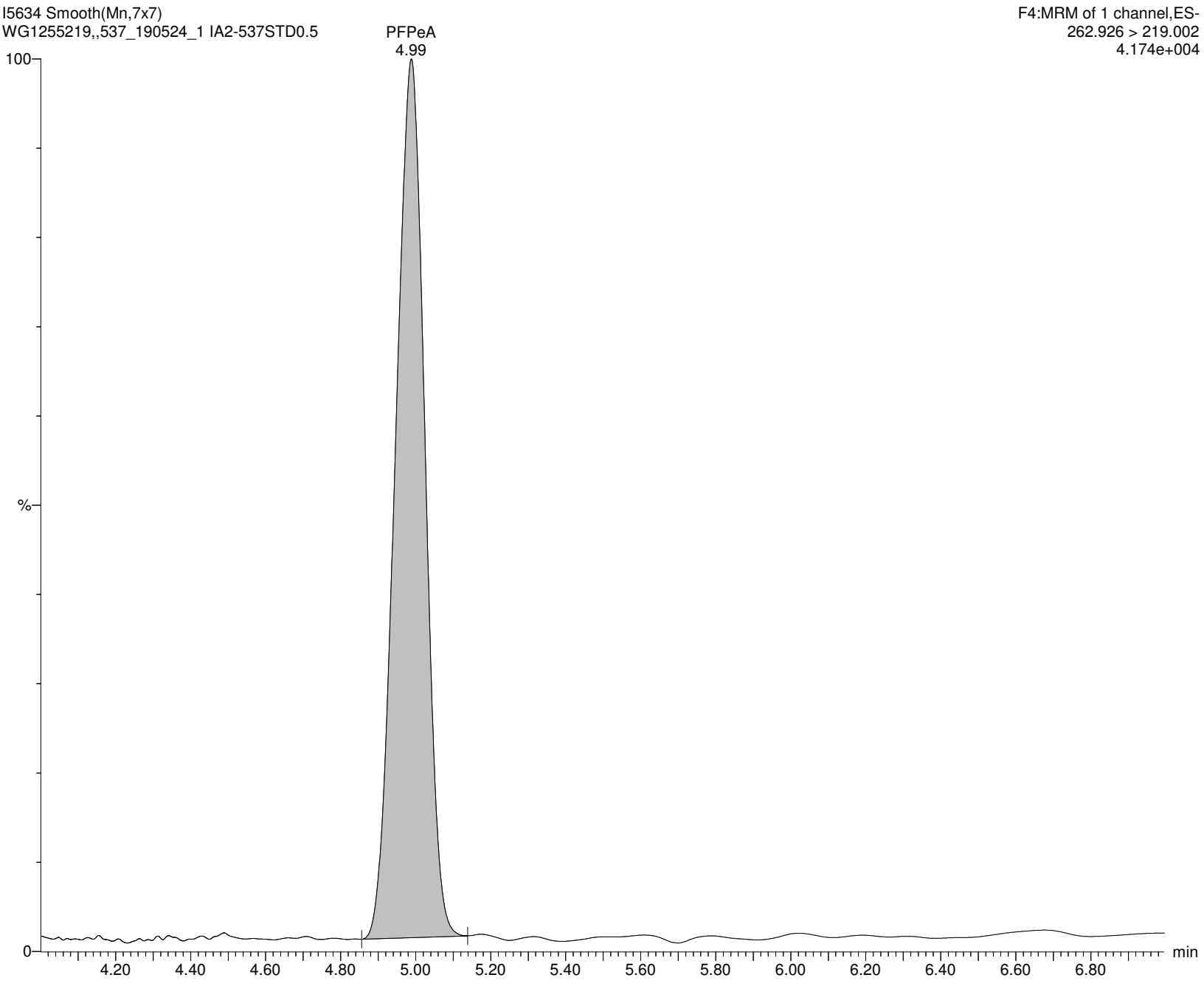


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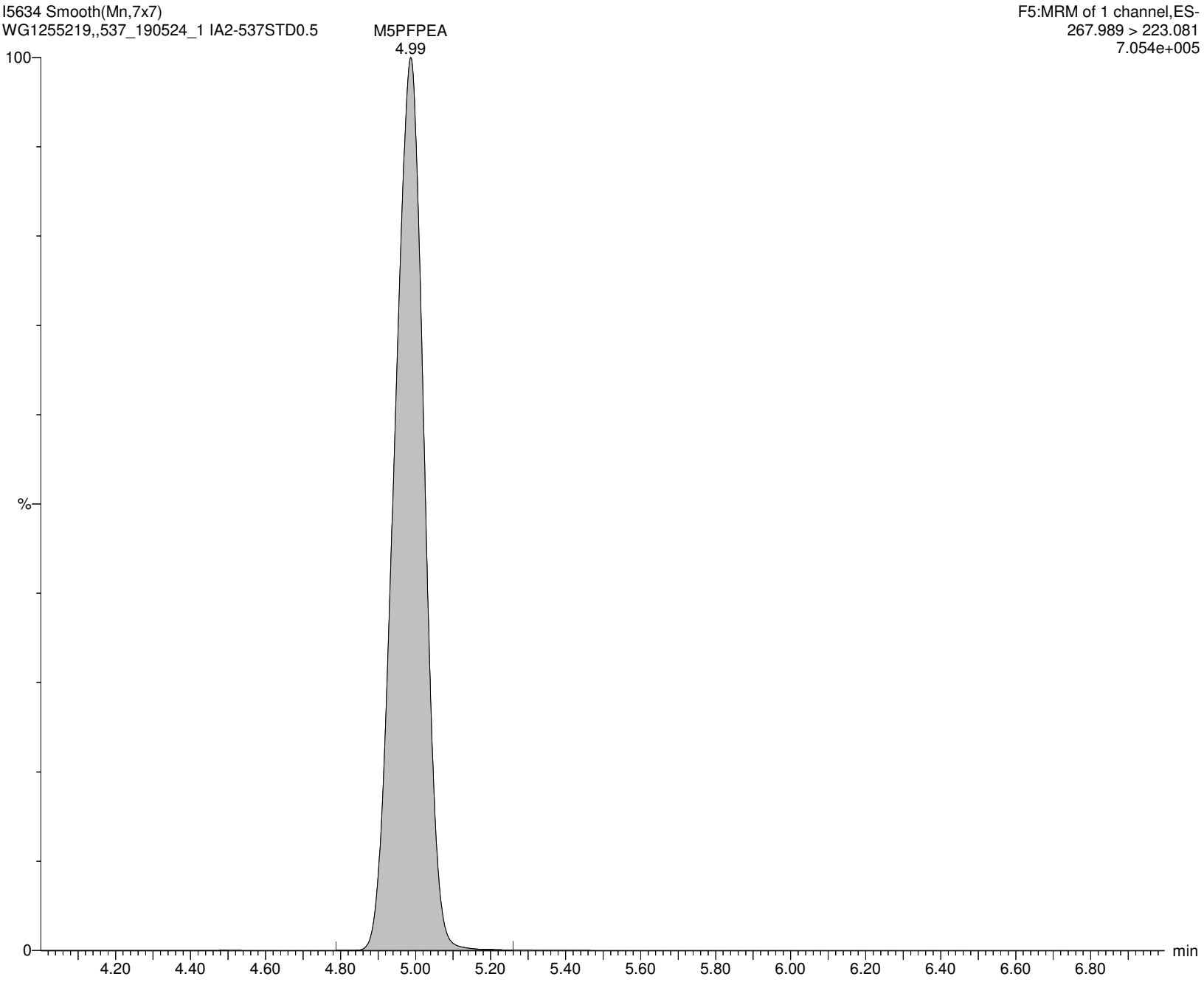


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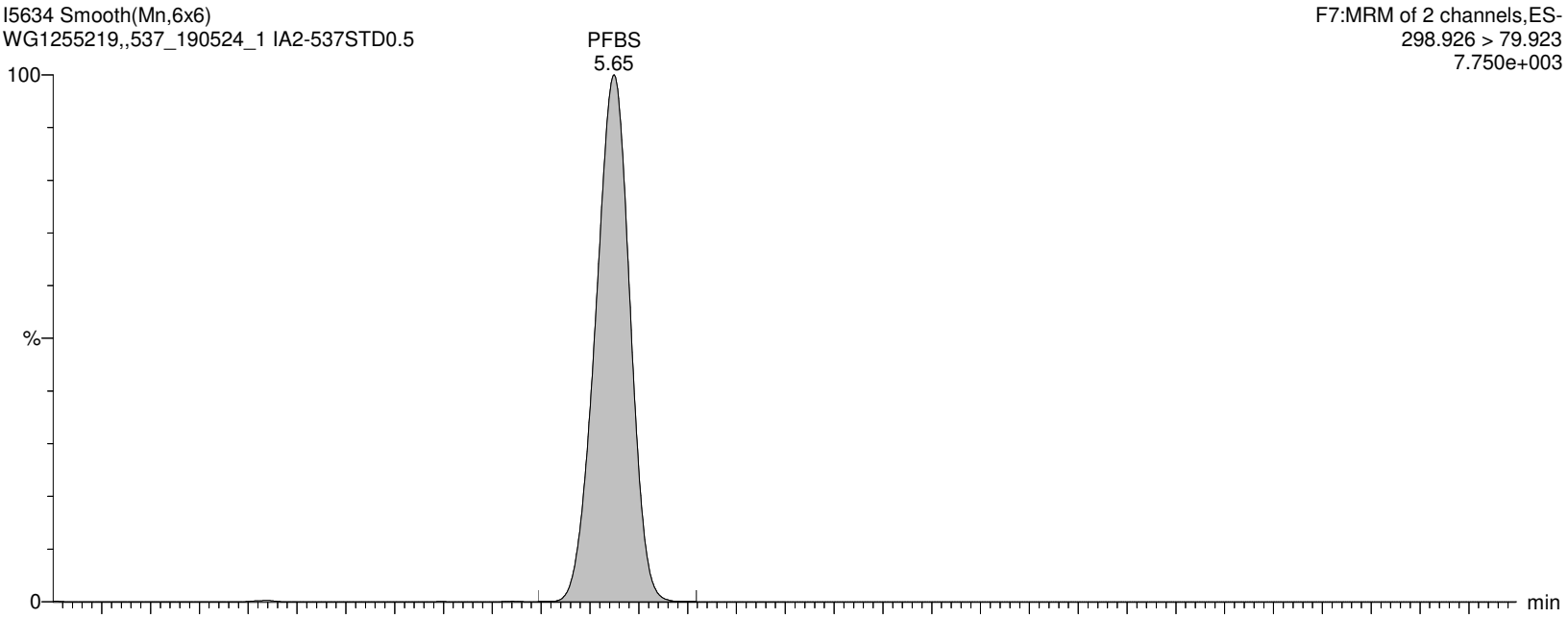


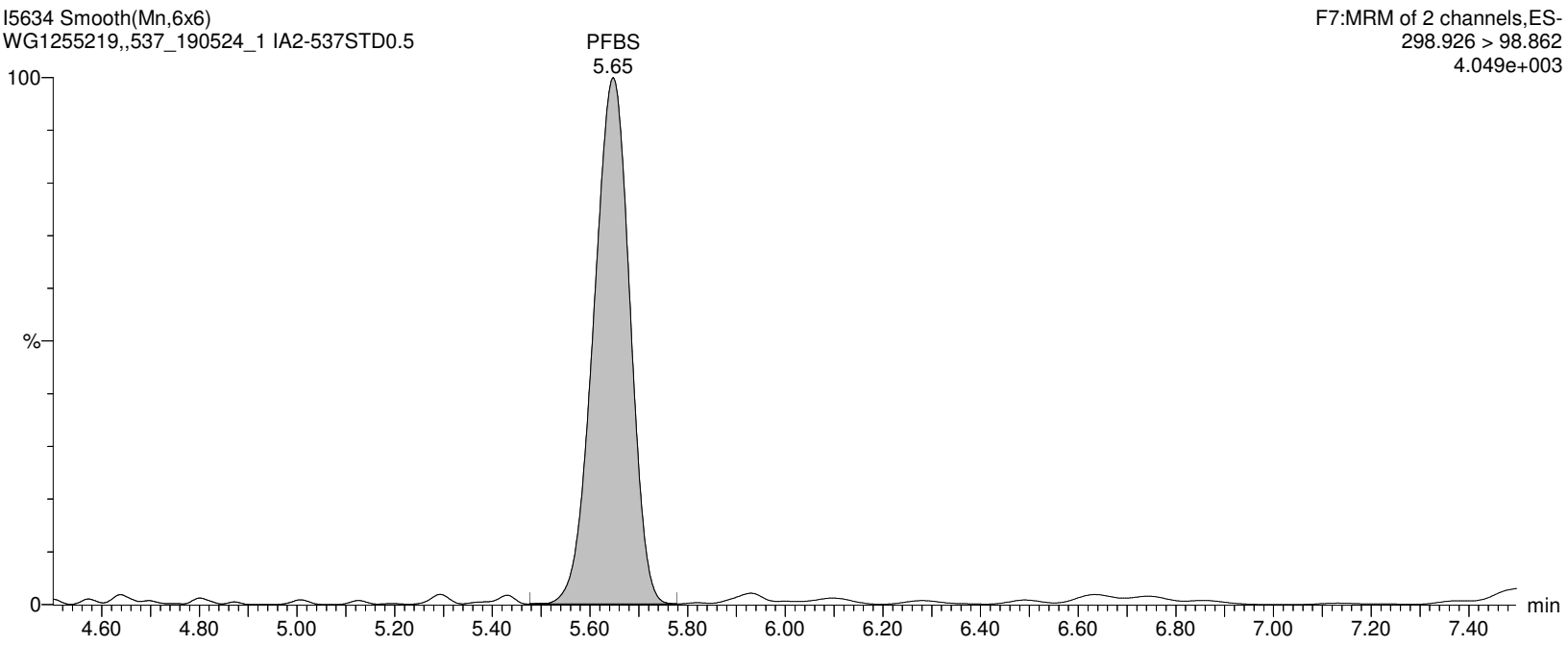
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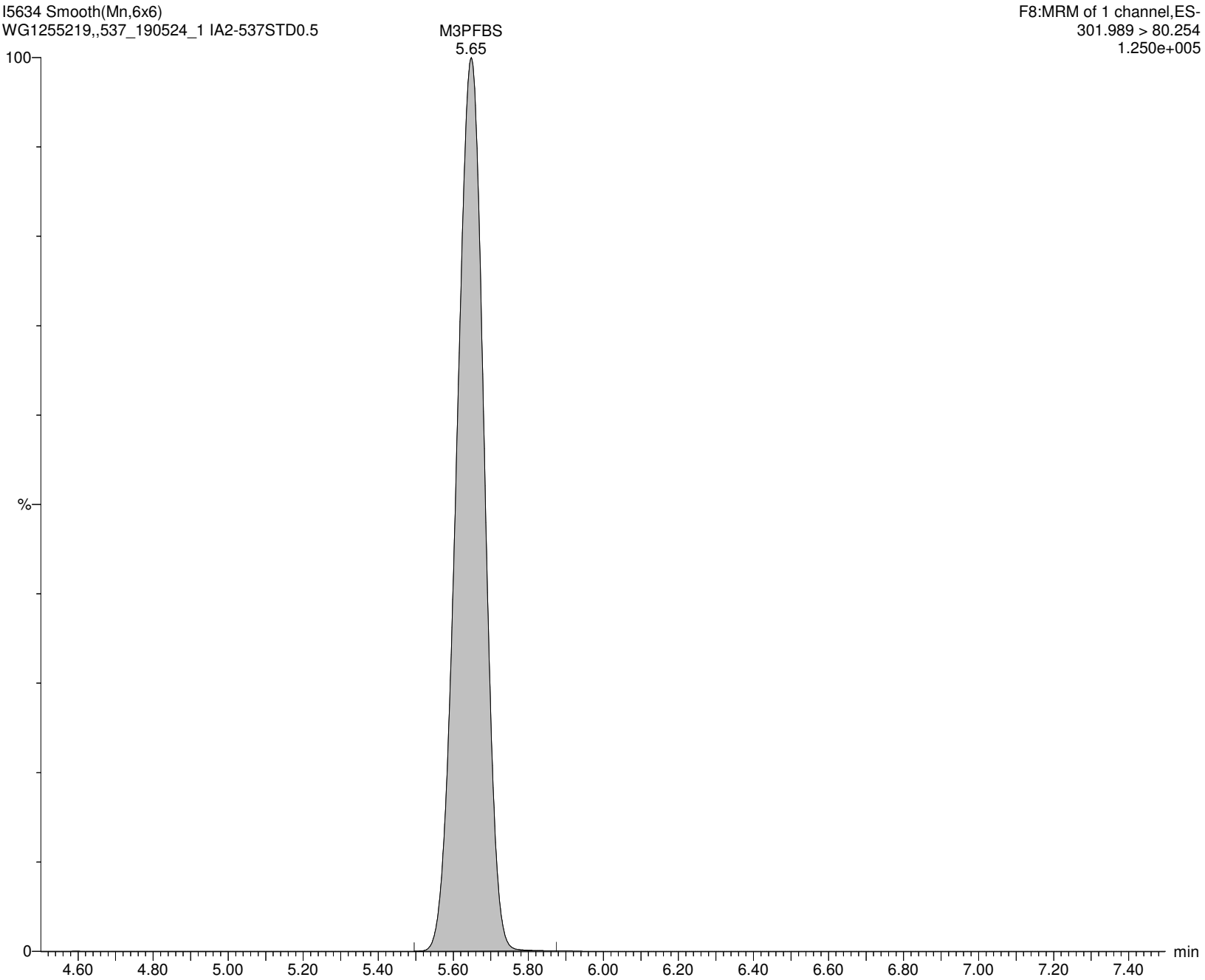


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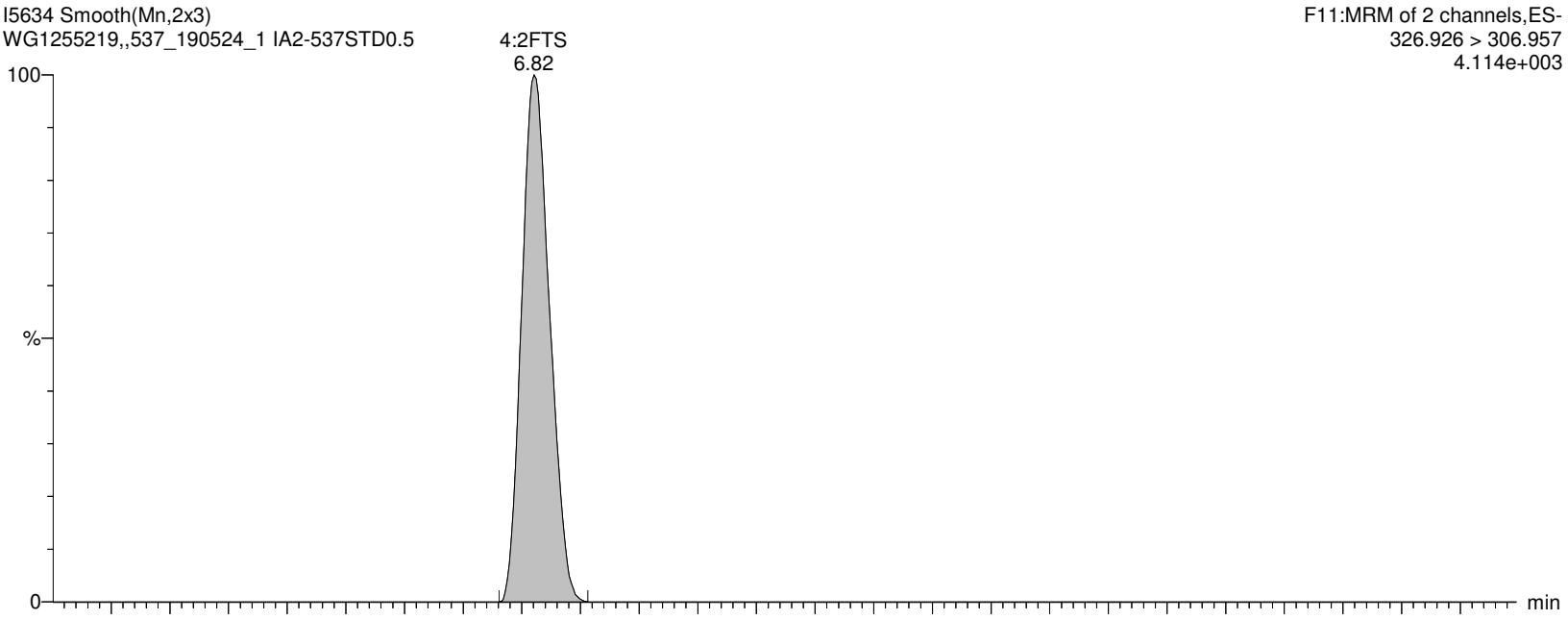


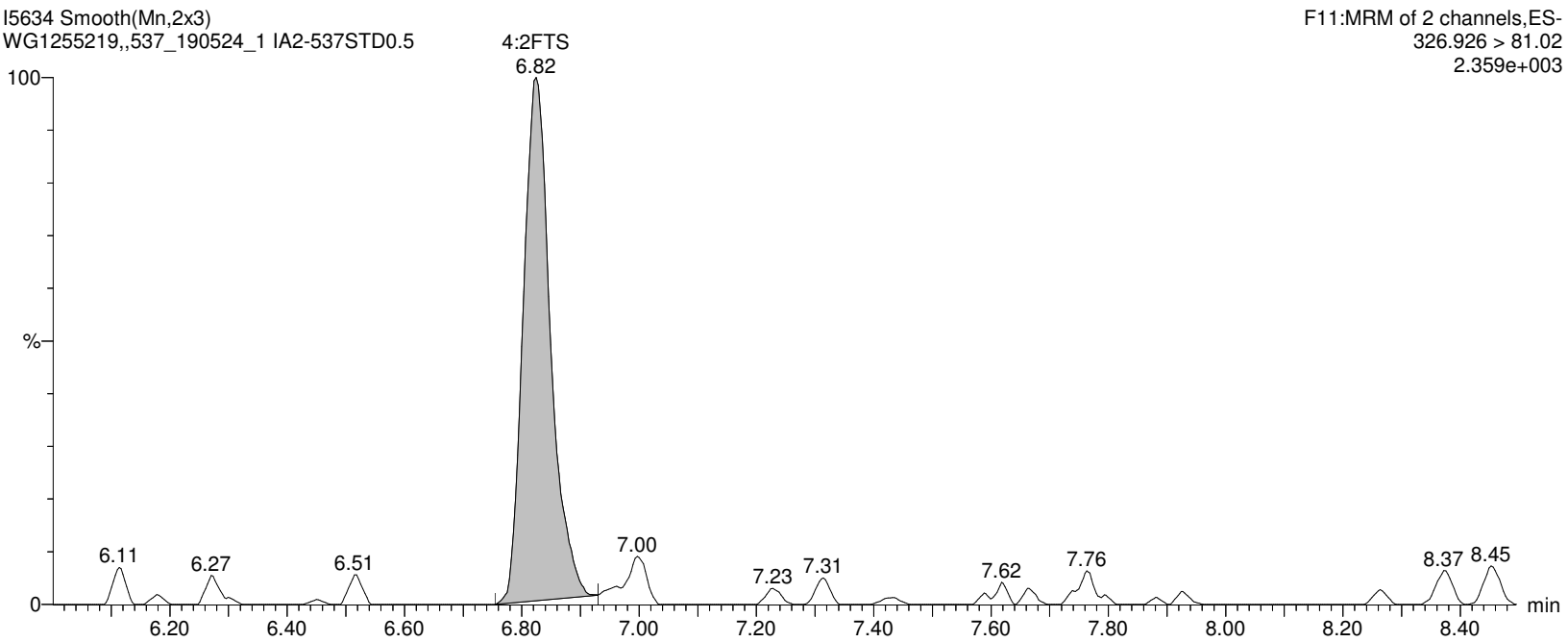
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4:2FTS



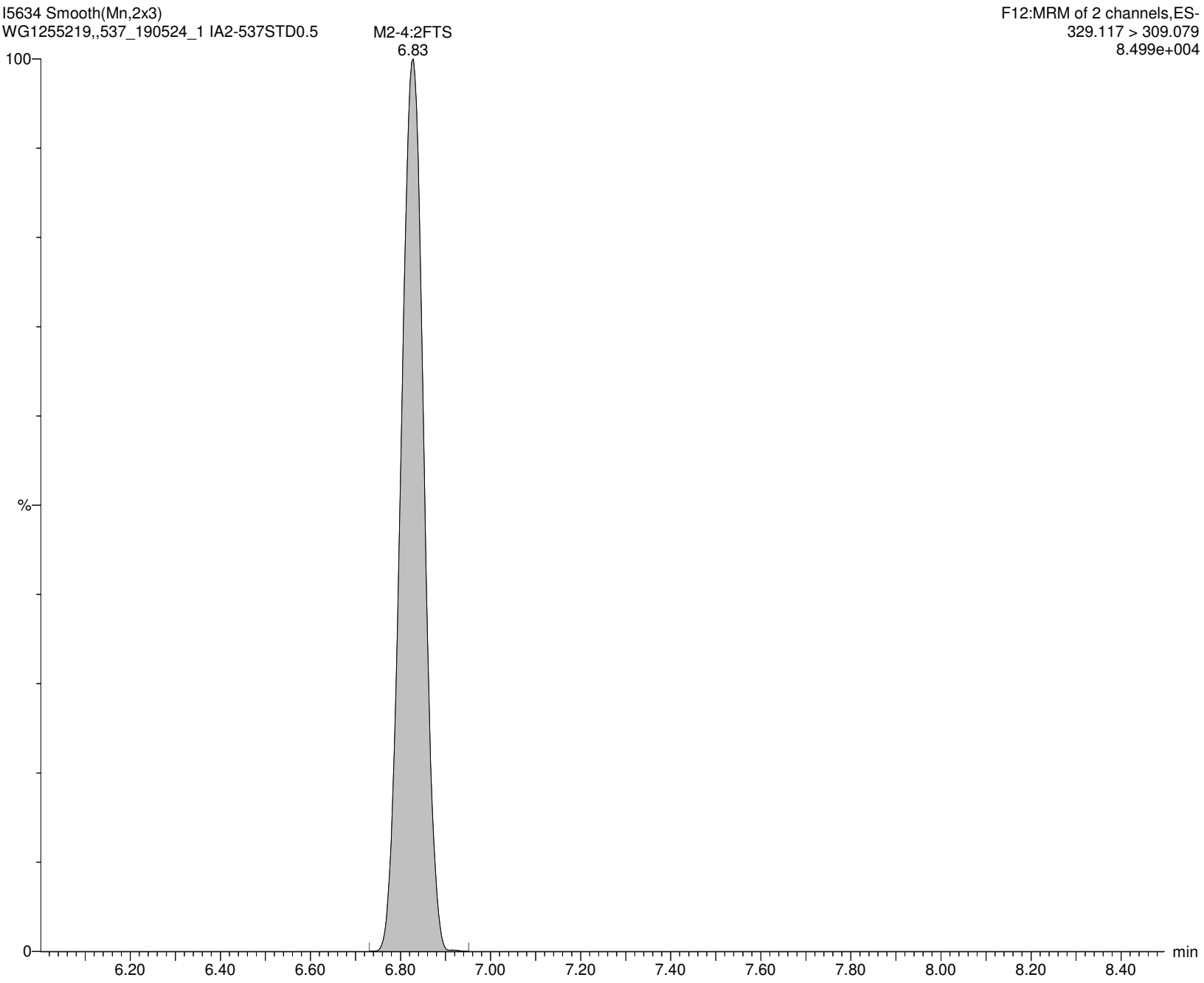


all concentration units in (ng/mL)

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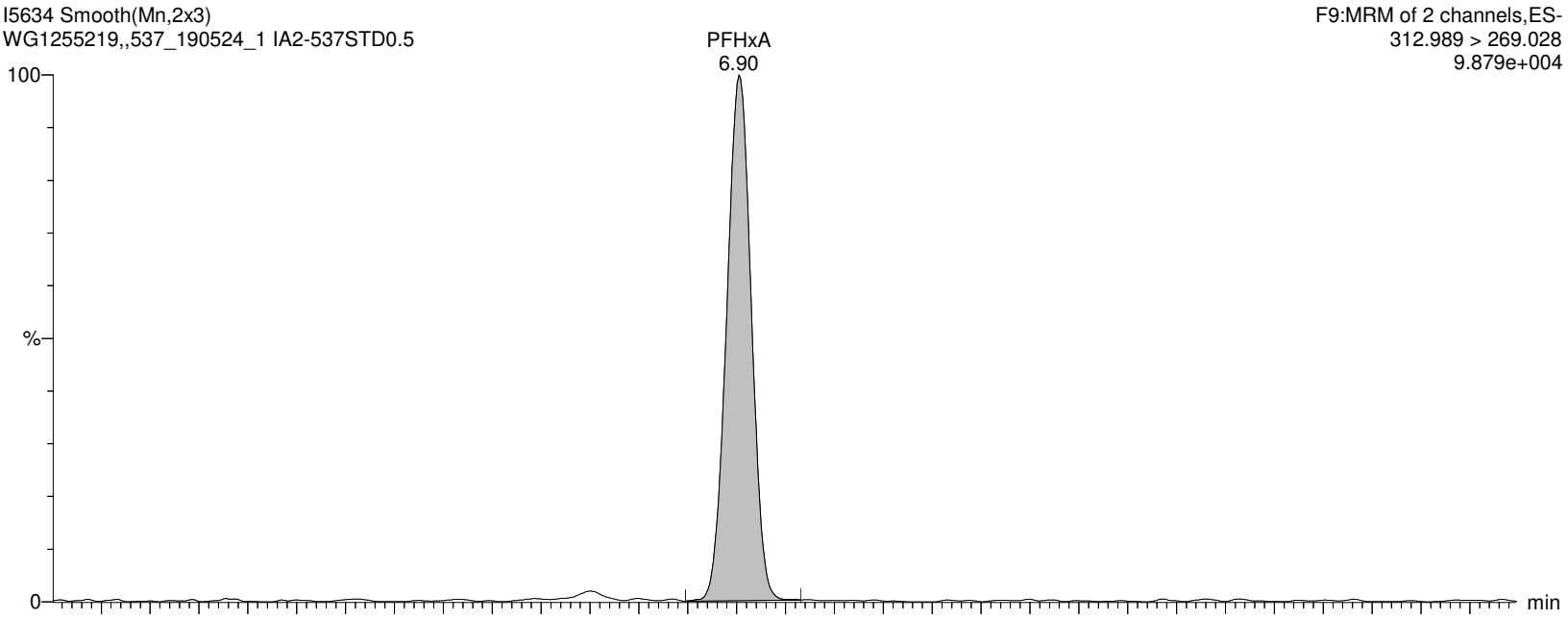


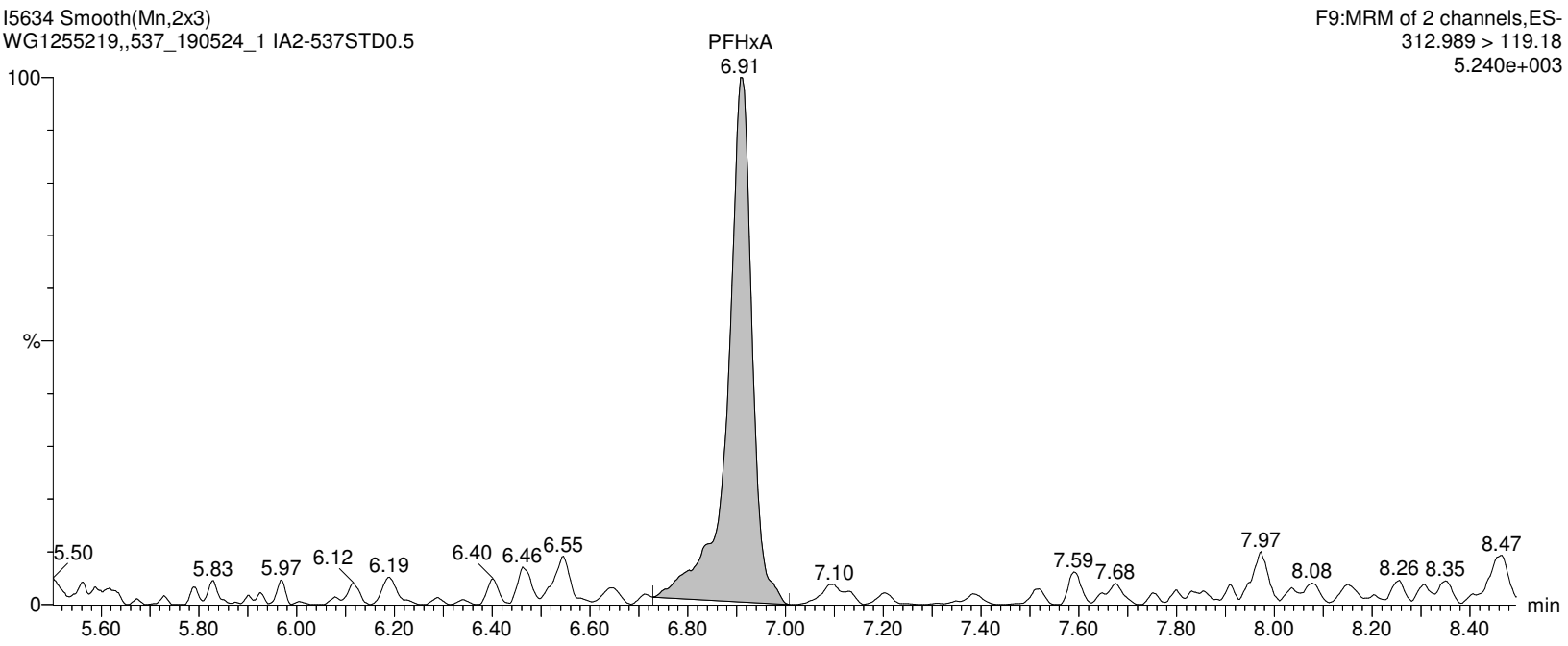
all concentration units in (ng/mL)

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PFHxA



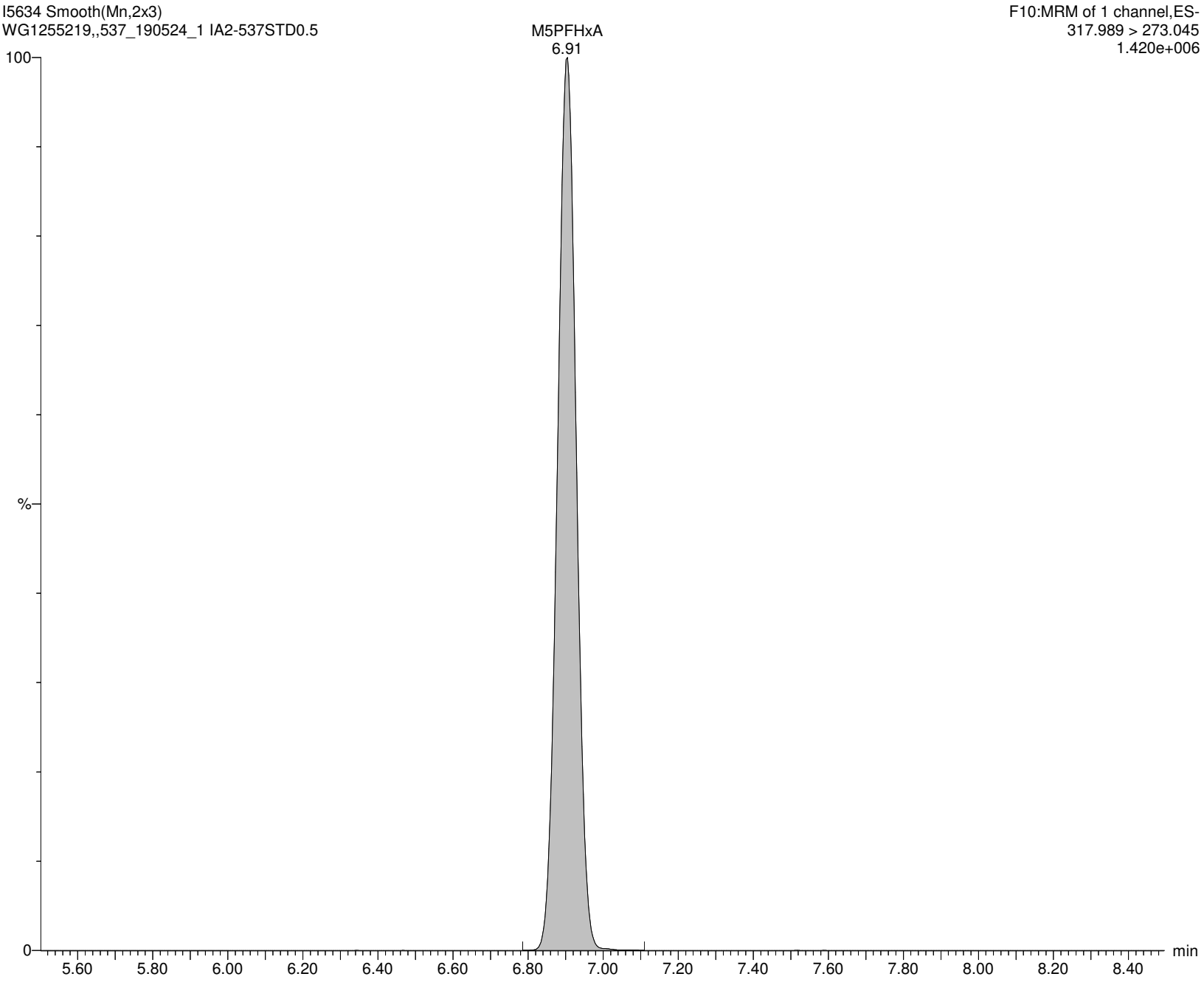


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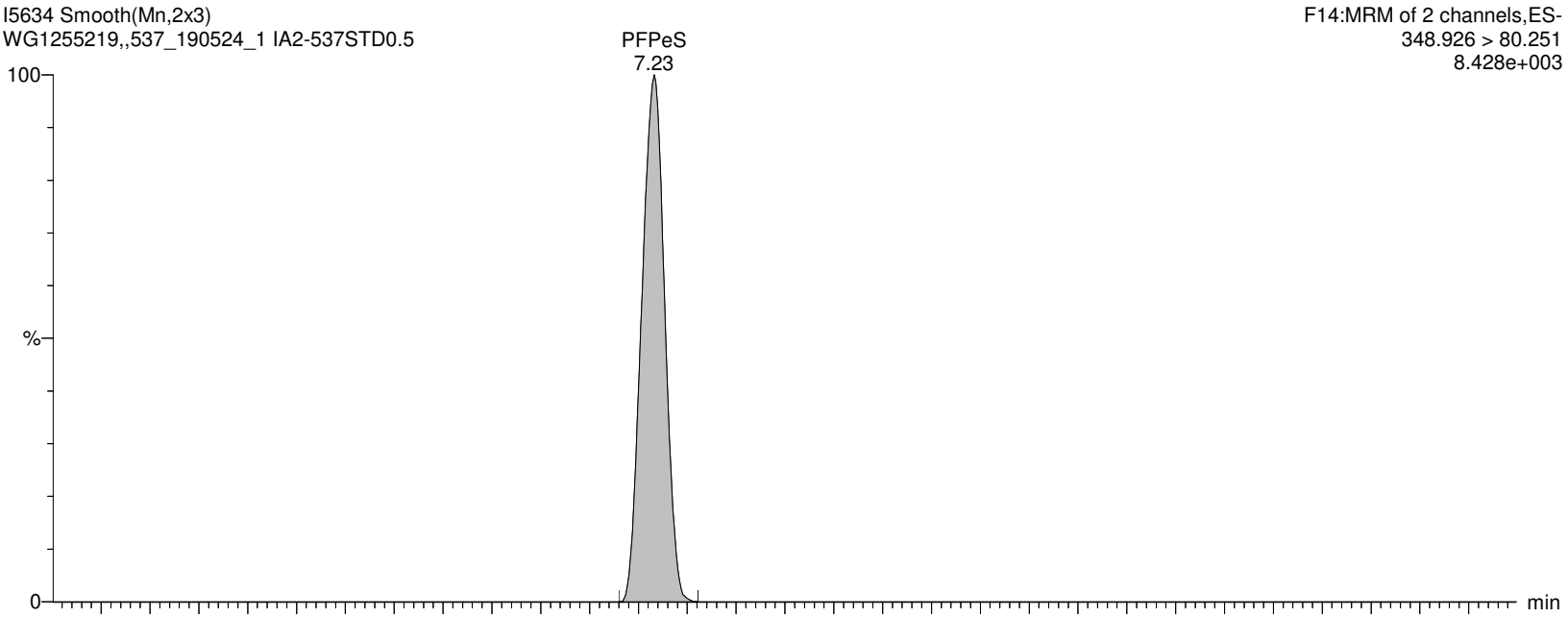


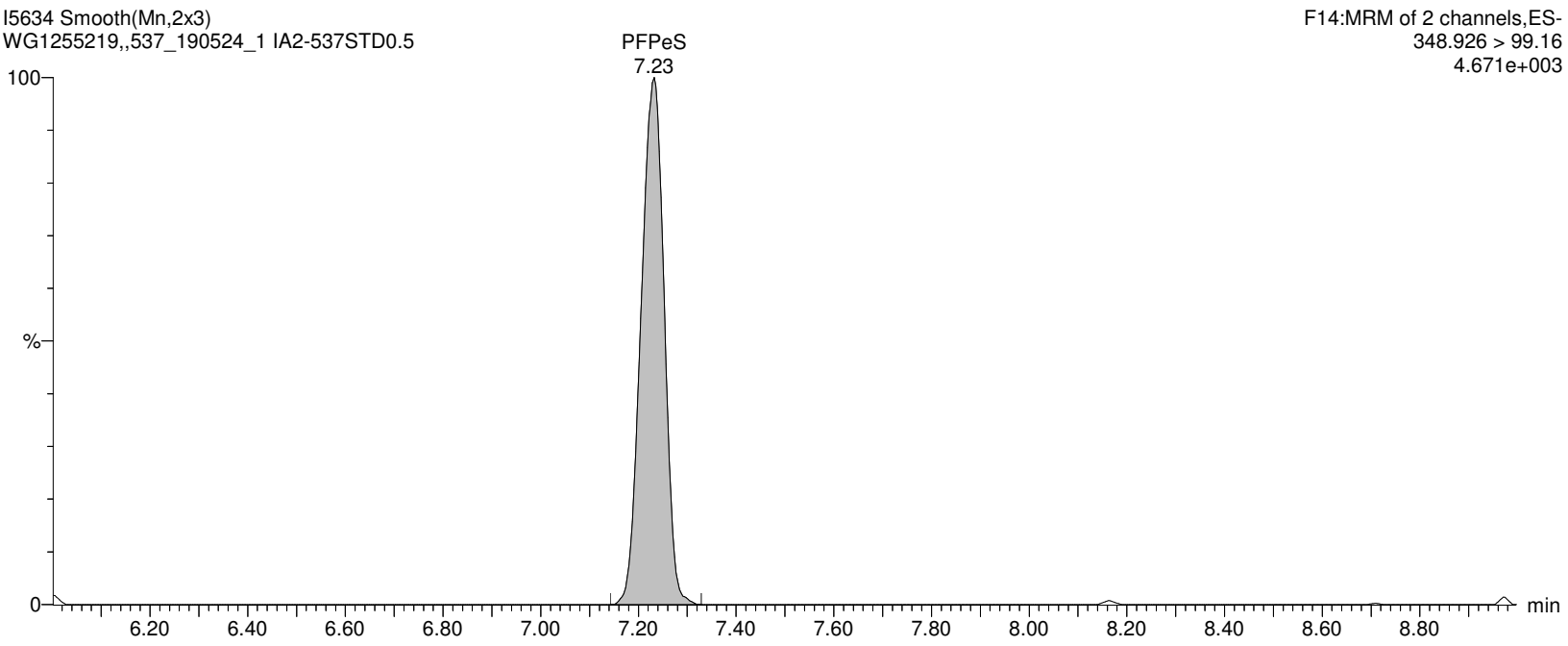
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PFPeS



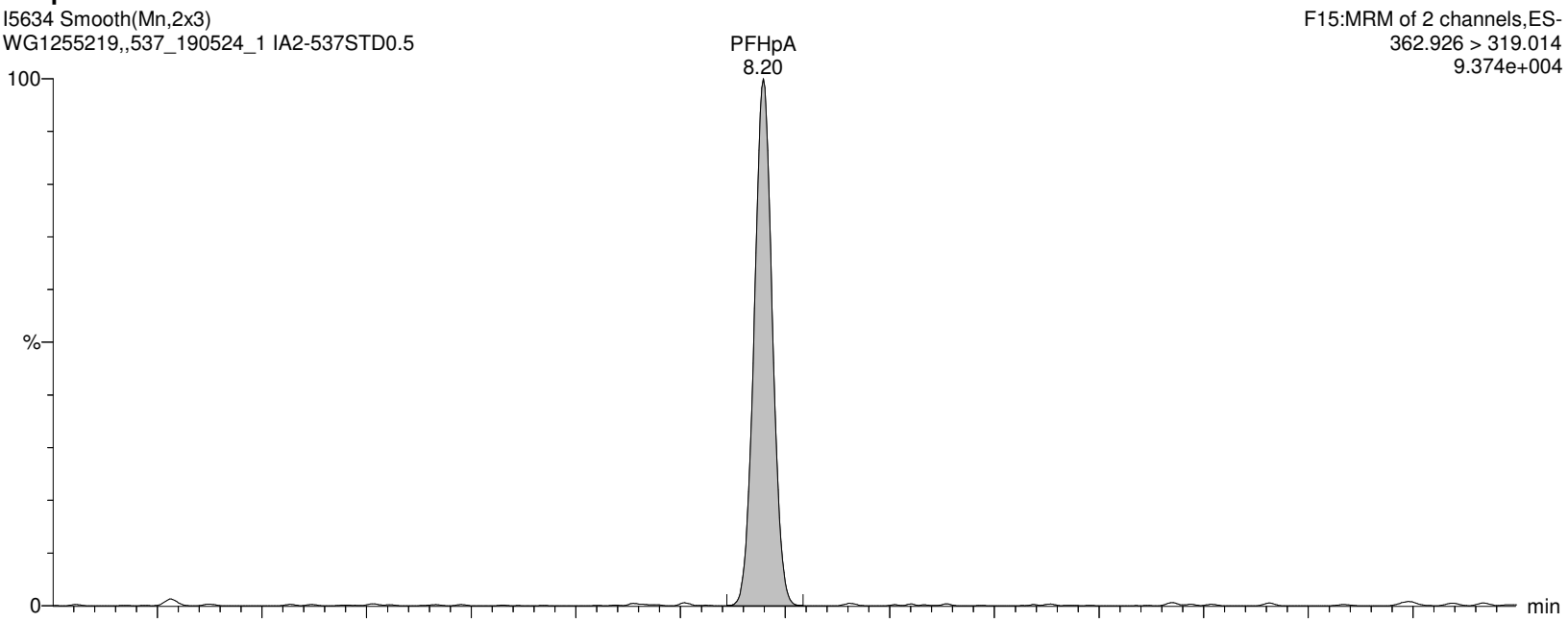


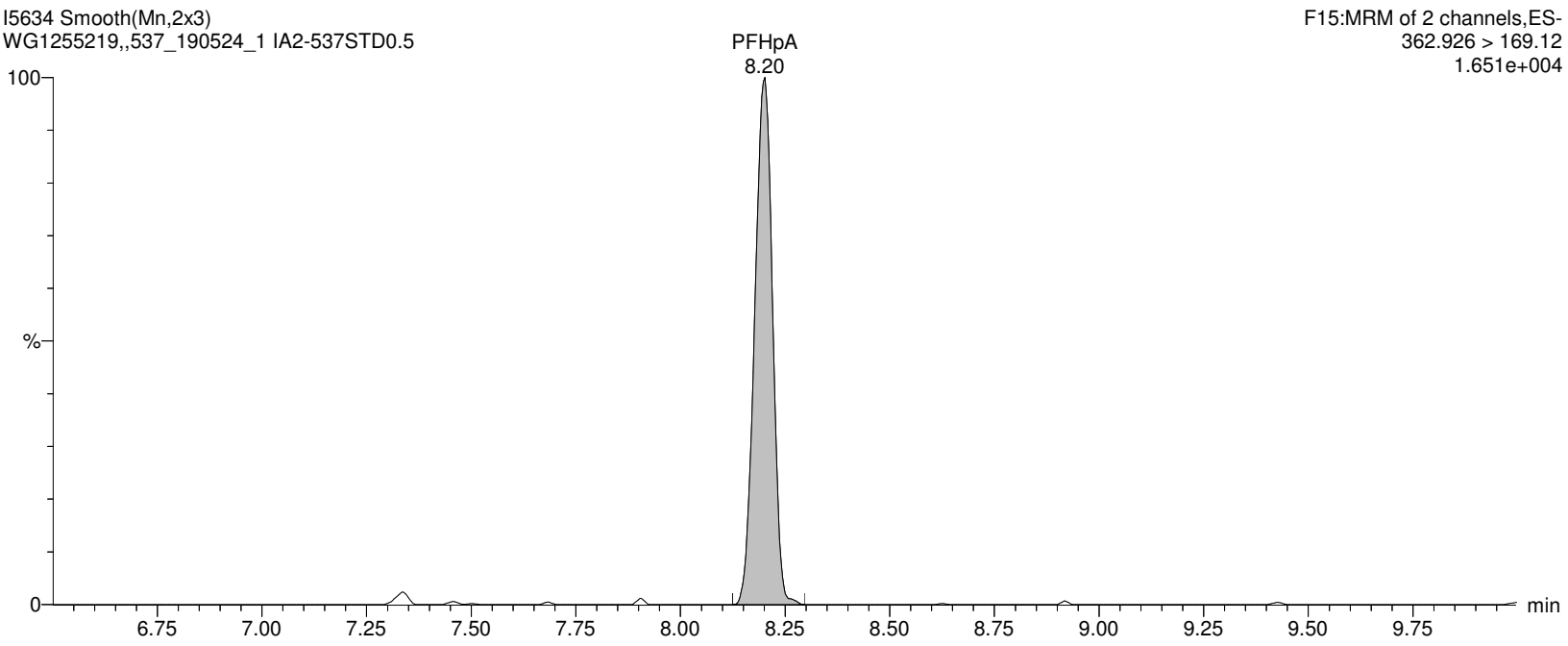
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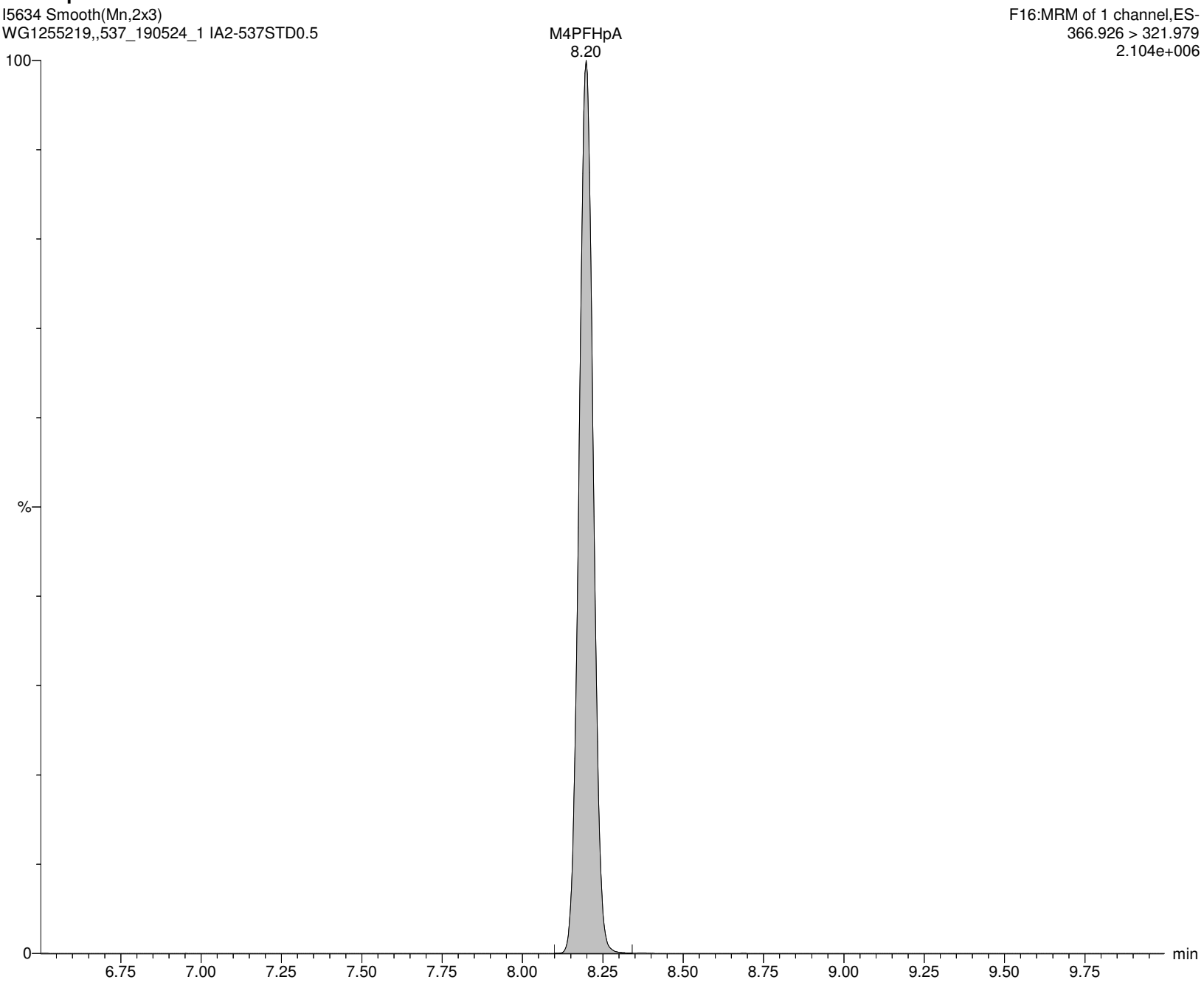


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:30 Eastern Daylight Time

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ID: IA2-537STD0.5
Date: 01-Jul-2019
Time: 17:57:23
Description: WG1255219,,537_190524_1
User: LCMS02:JW
Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEB0050
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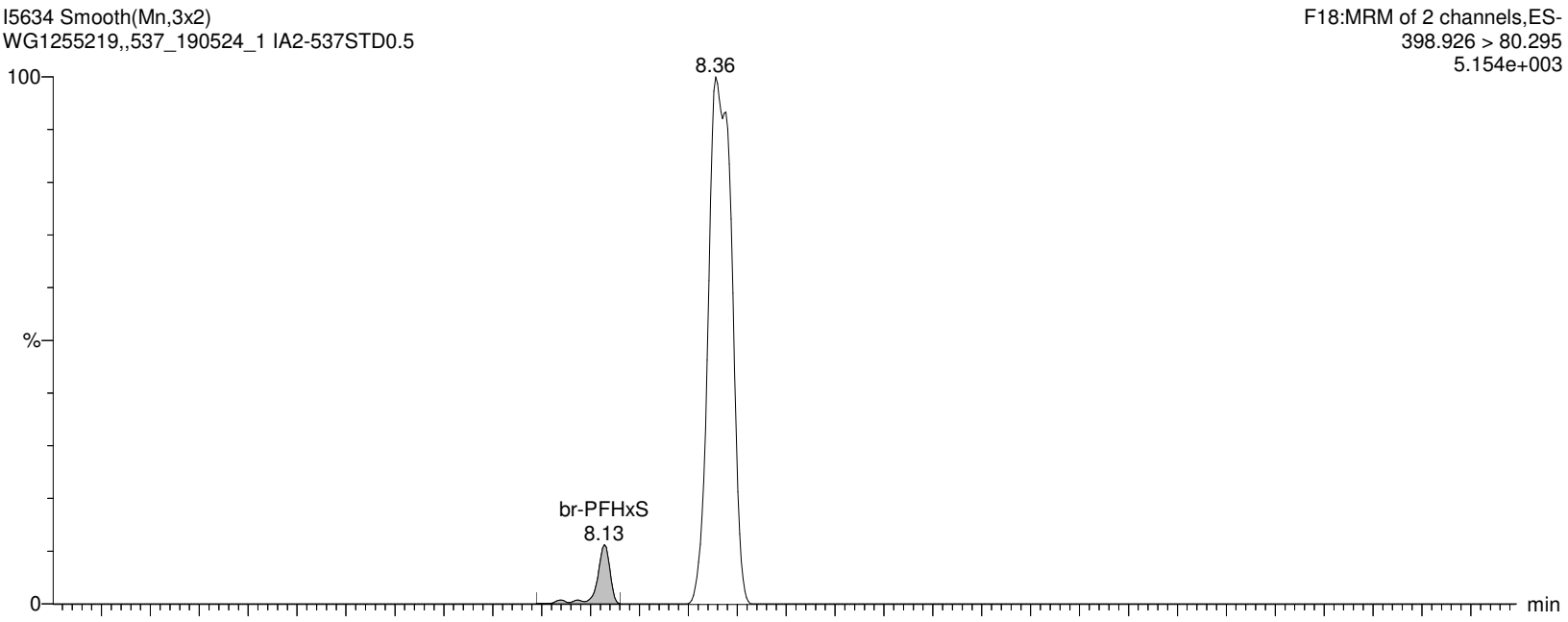


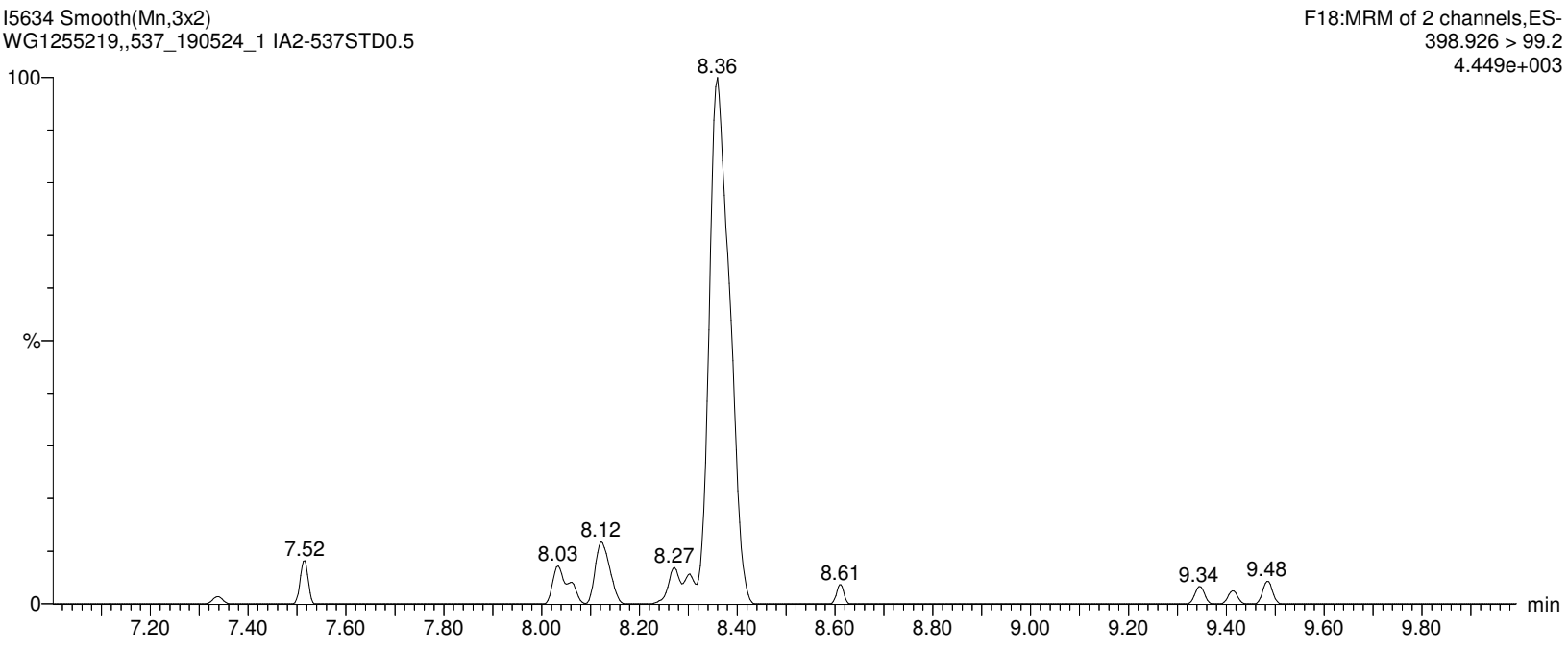
all concentration units in (ng/mL)

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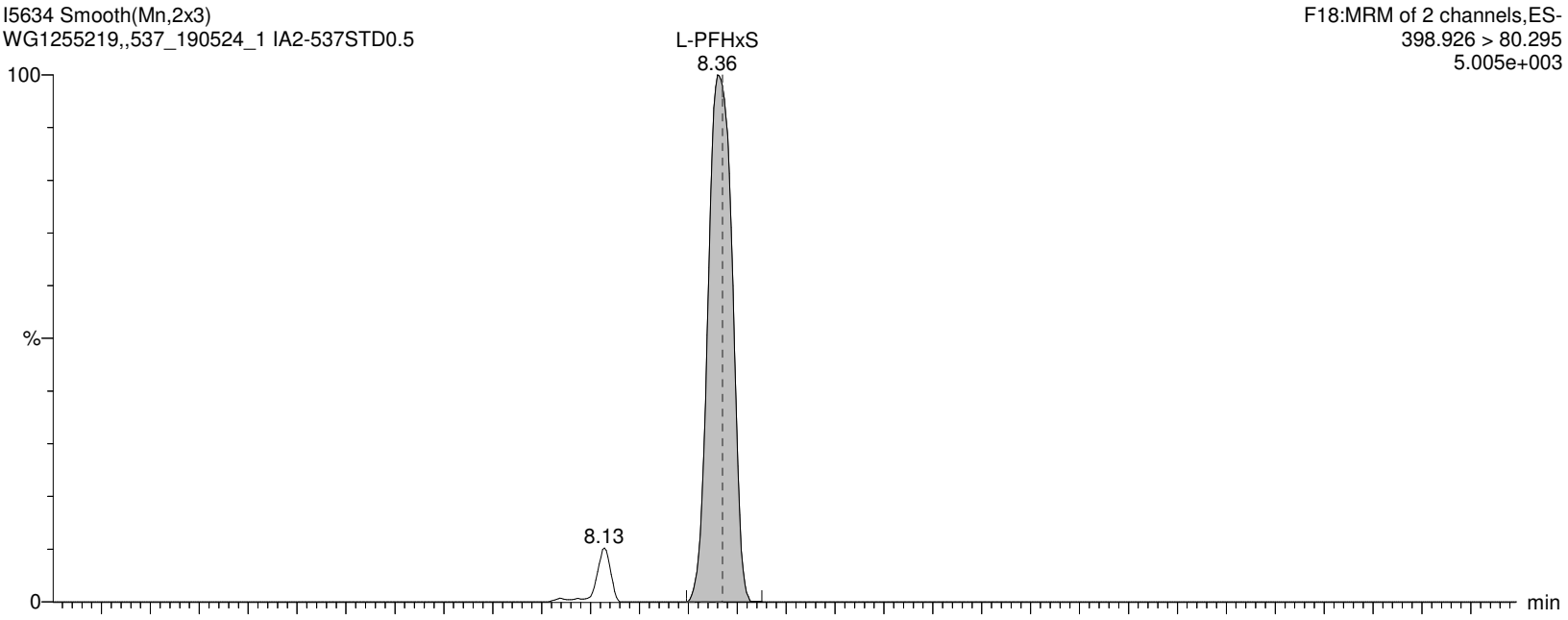


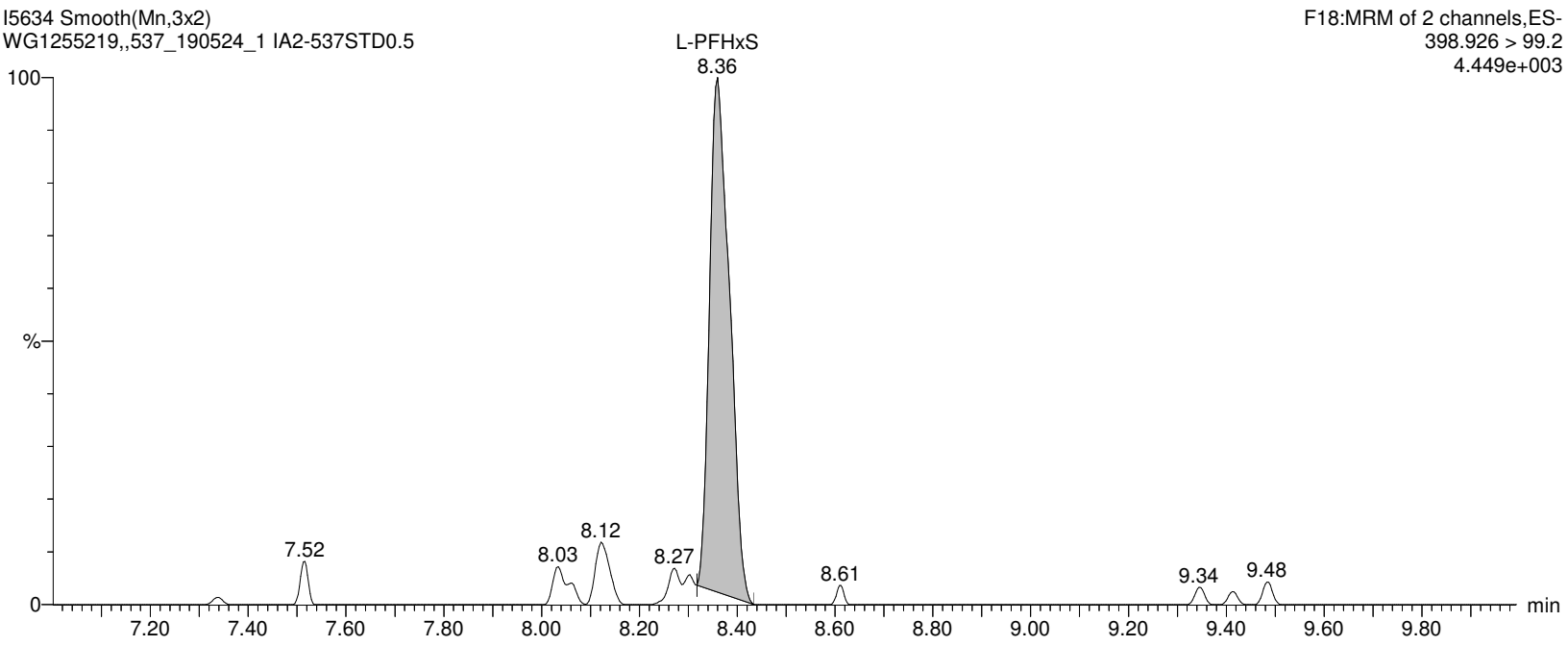
all concentration units in (ng/mL)

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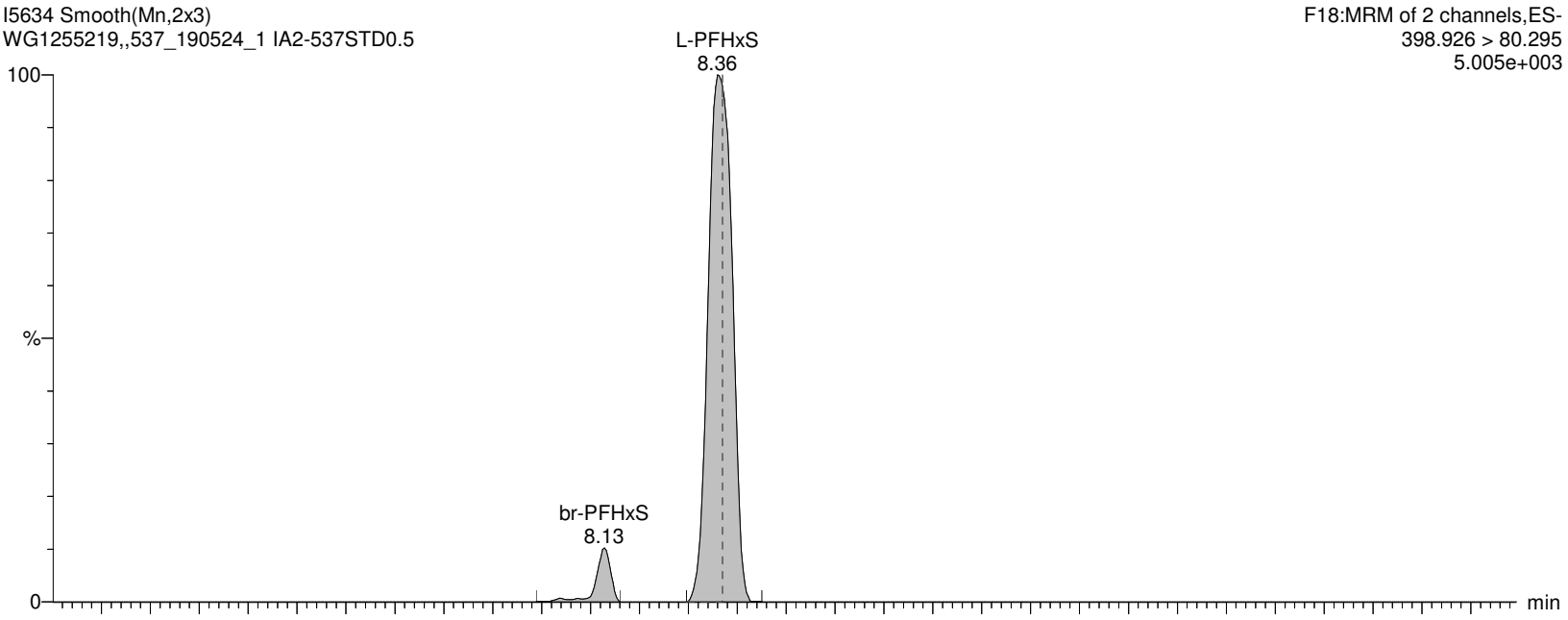


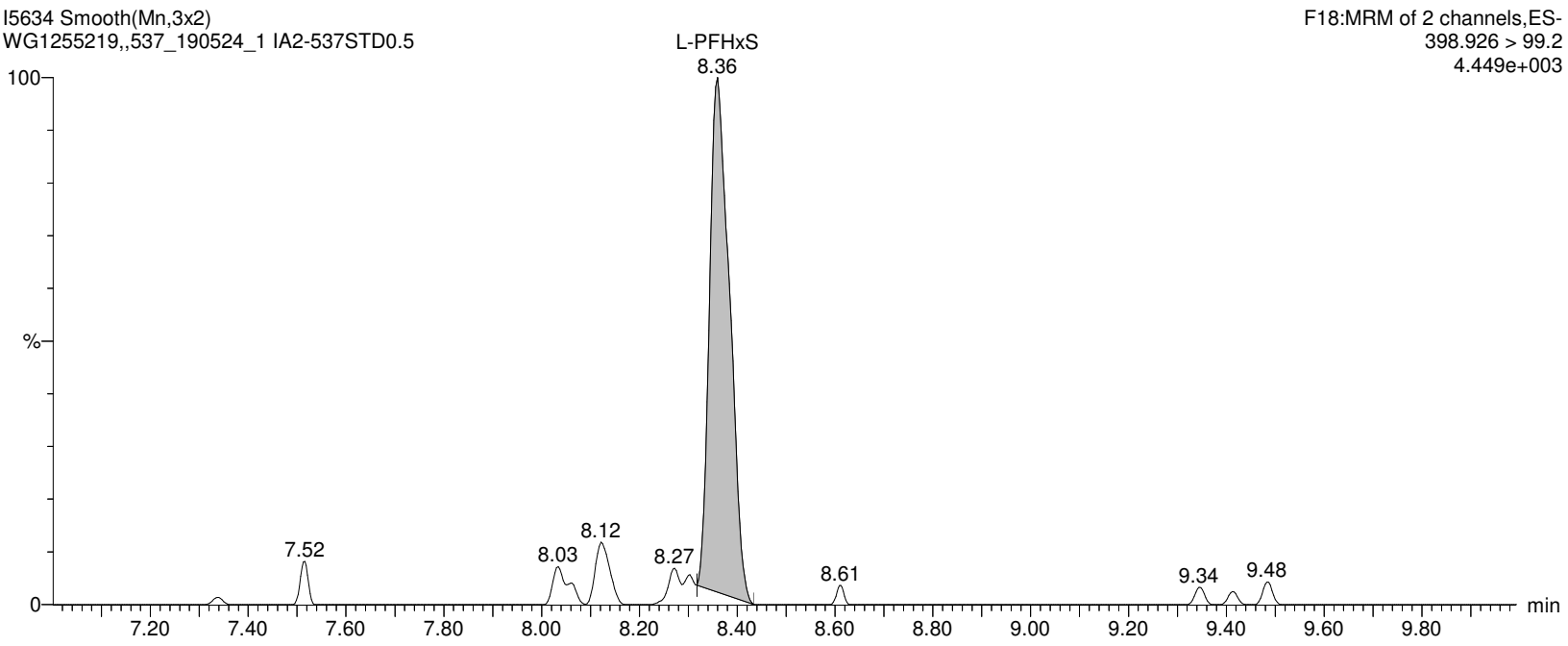
all concentration units in (ng/mL)

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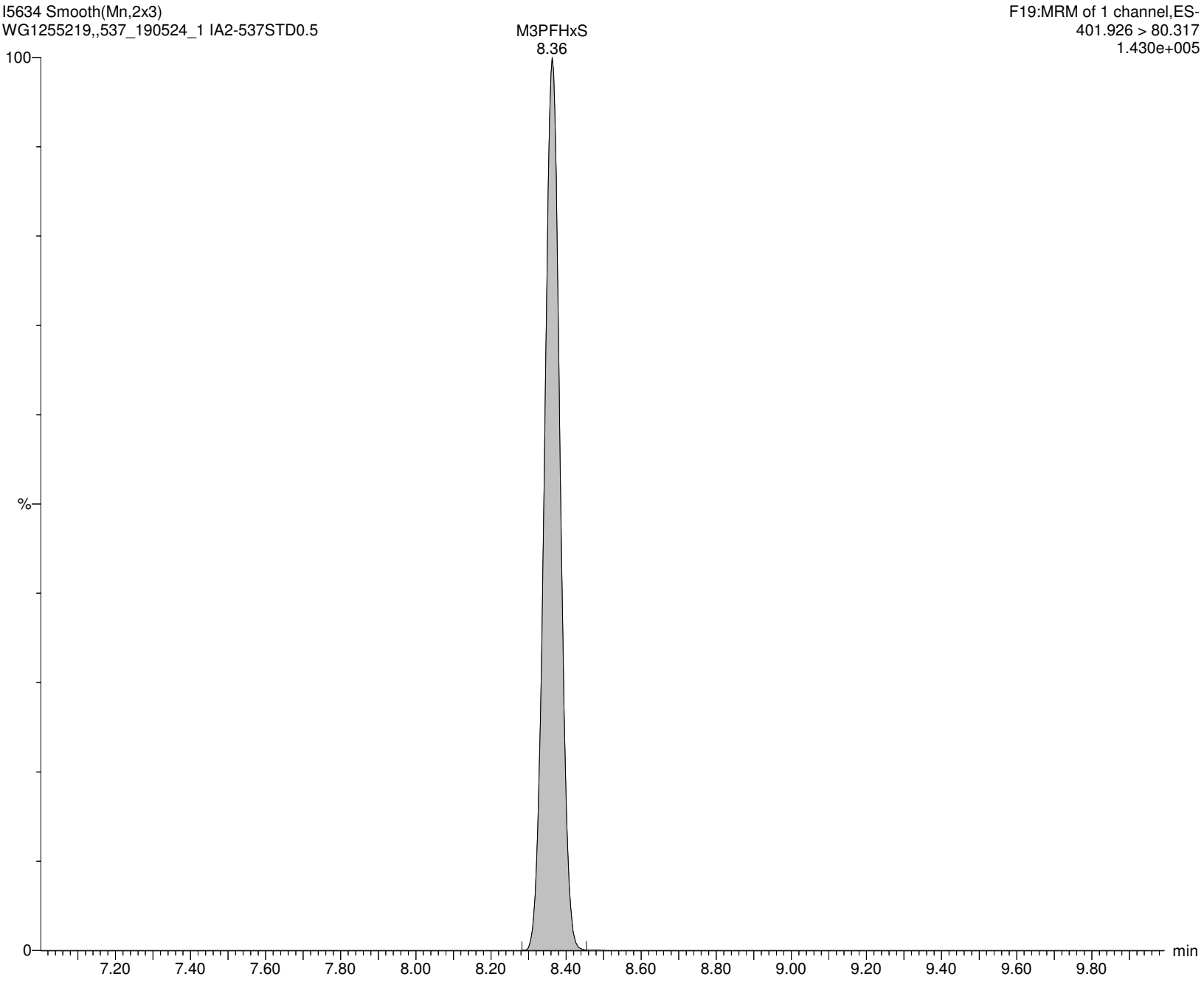


all concentration units in (ng/mL)

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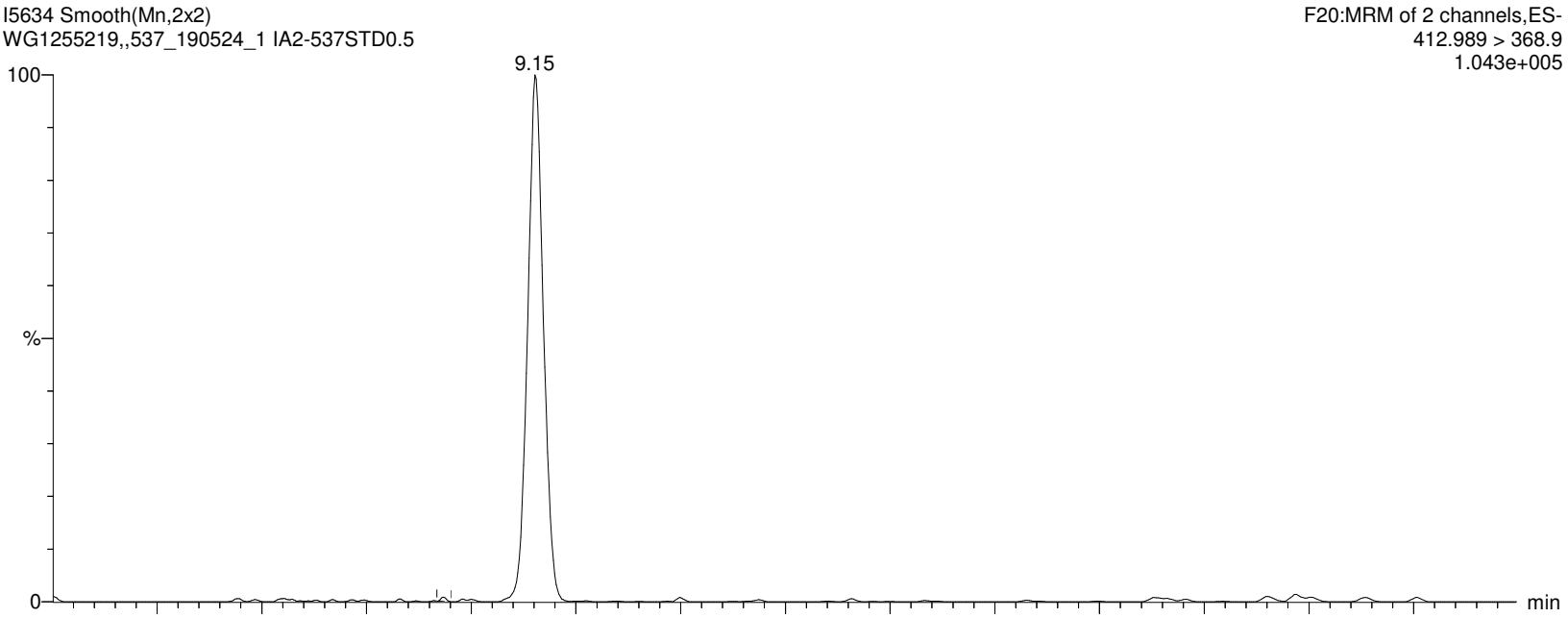


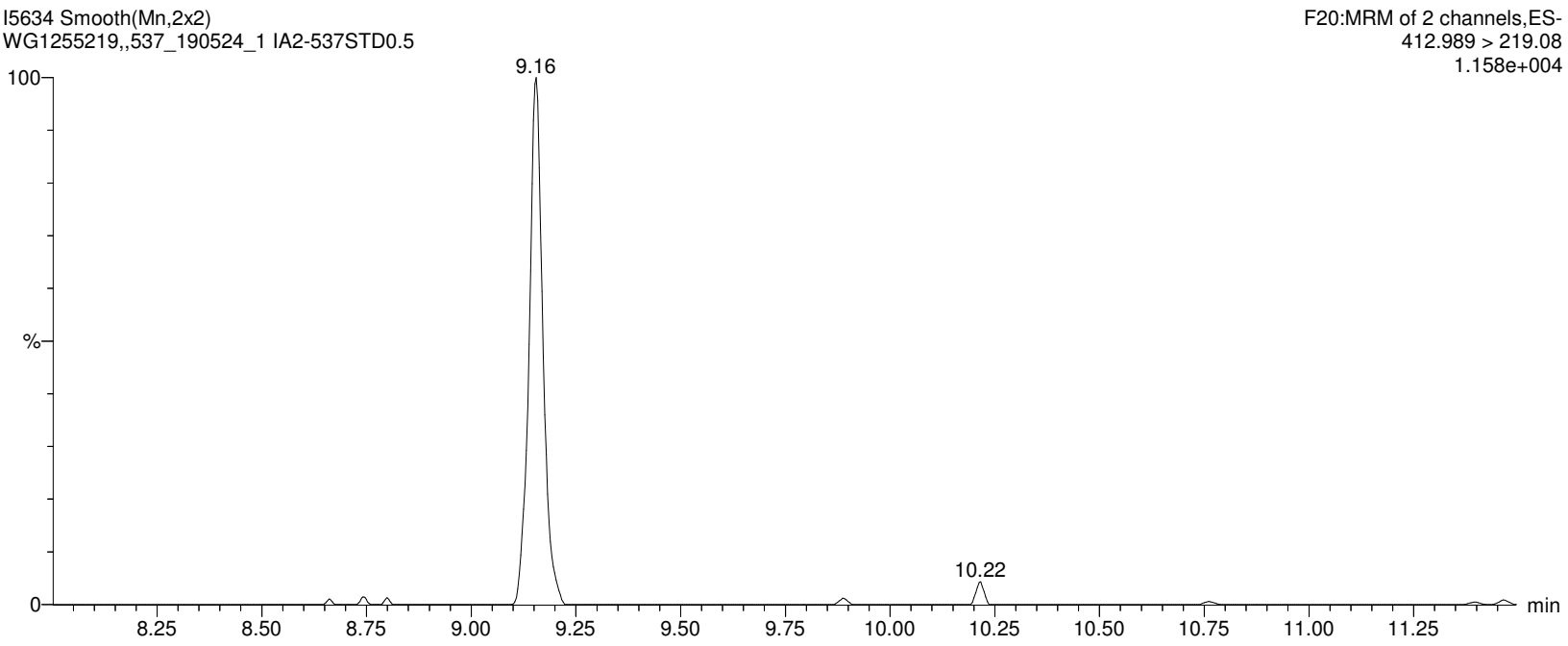
all concentration units in (ng/mL)

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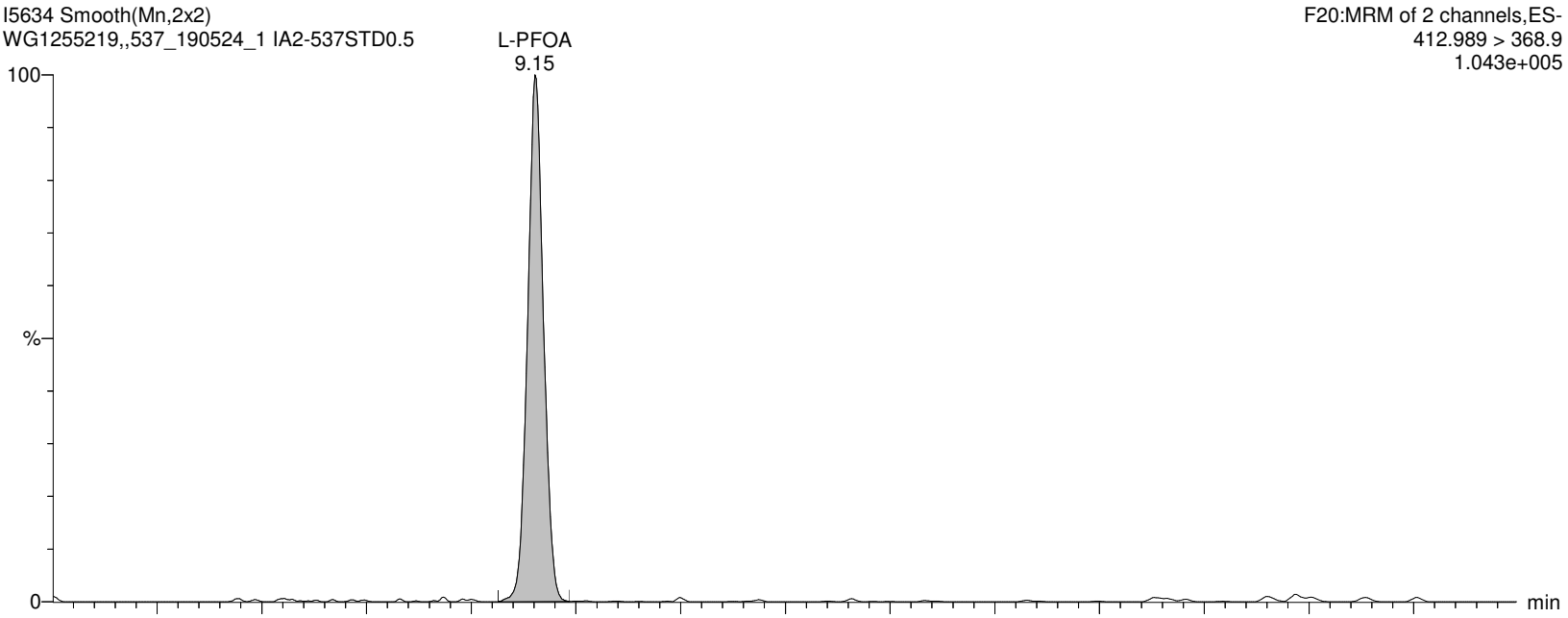


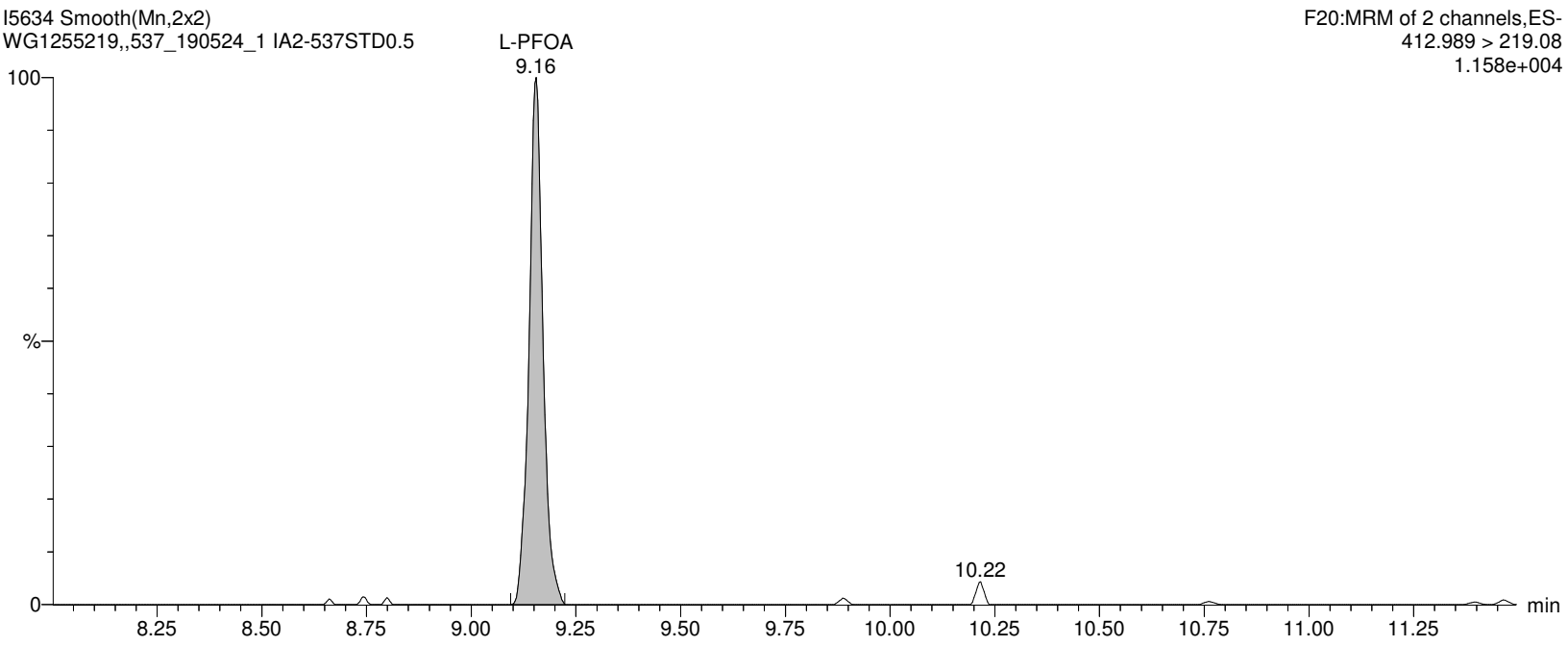
all concentration units in (ng/mL)

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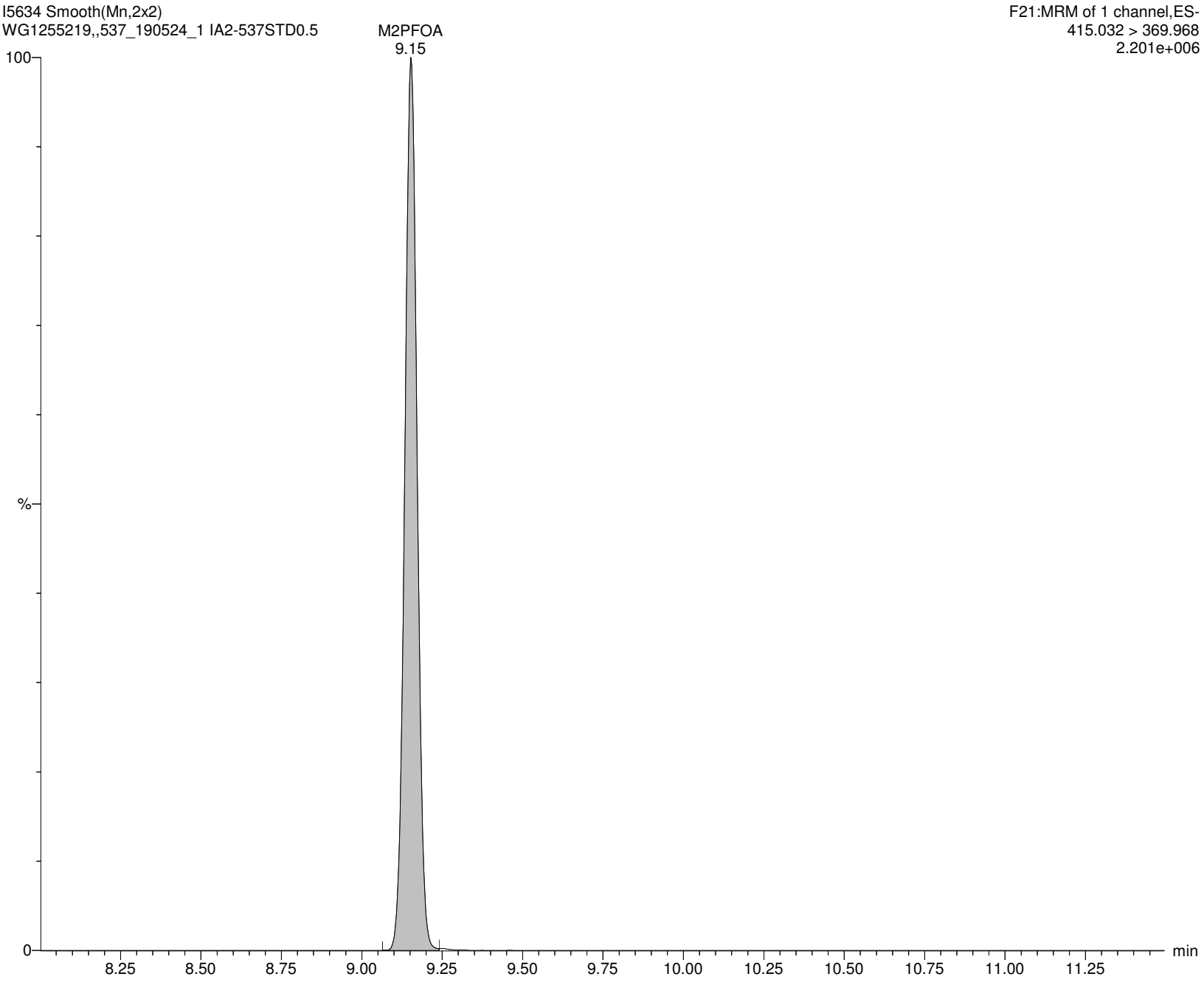


all concentration units in (ng/mL)

Alpha Analytical Inc.
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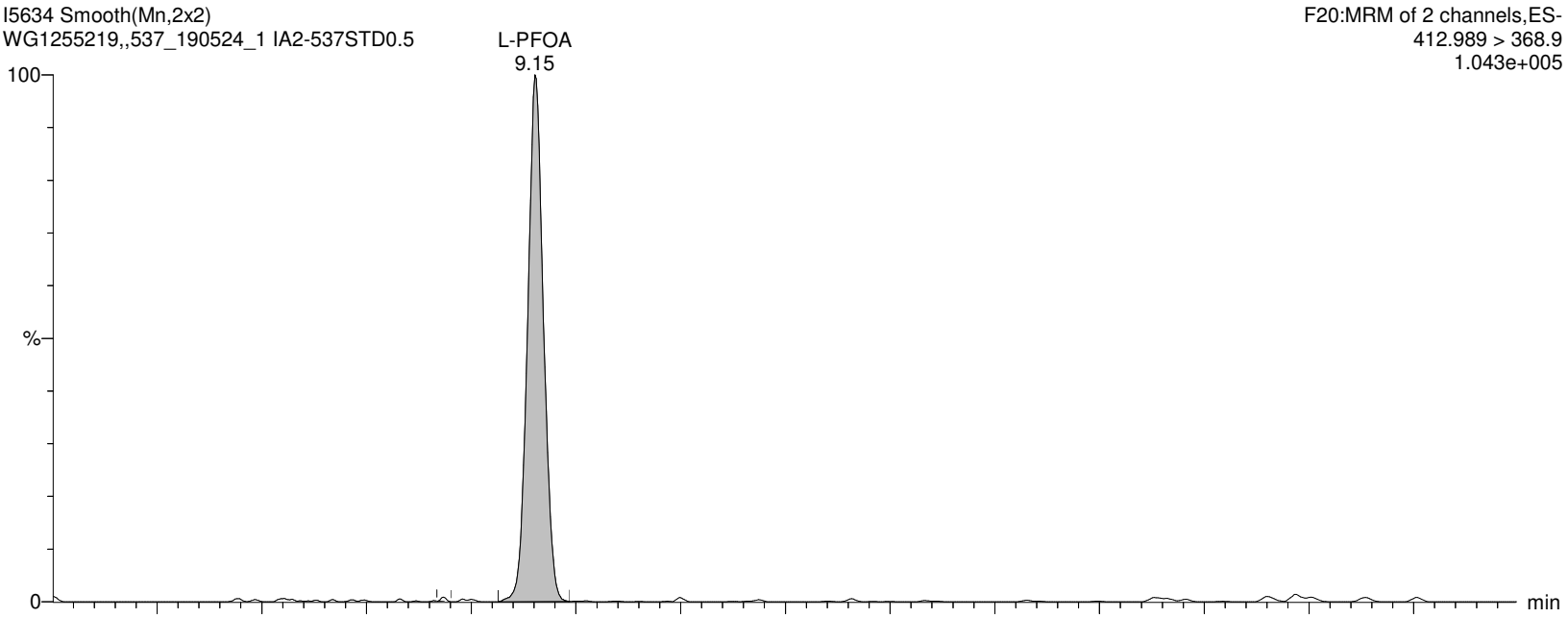


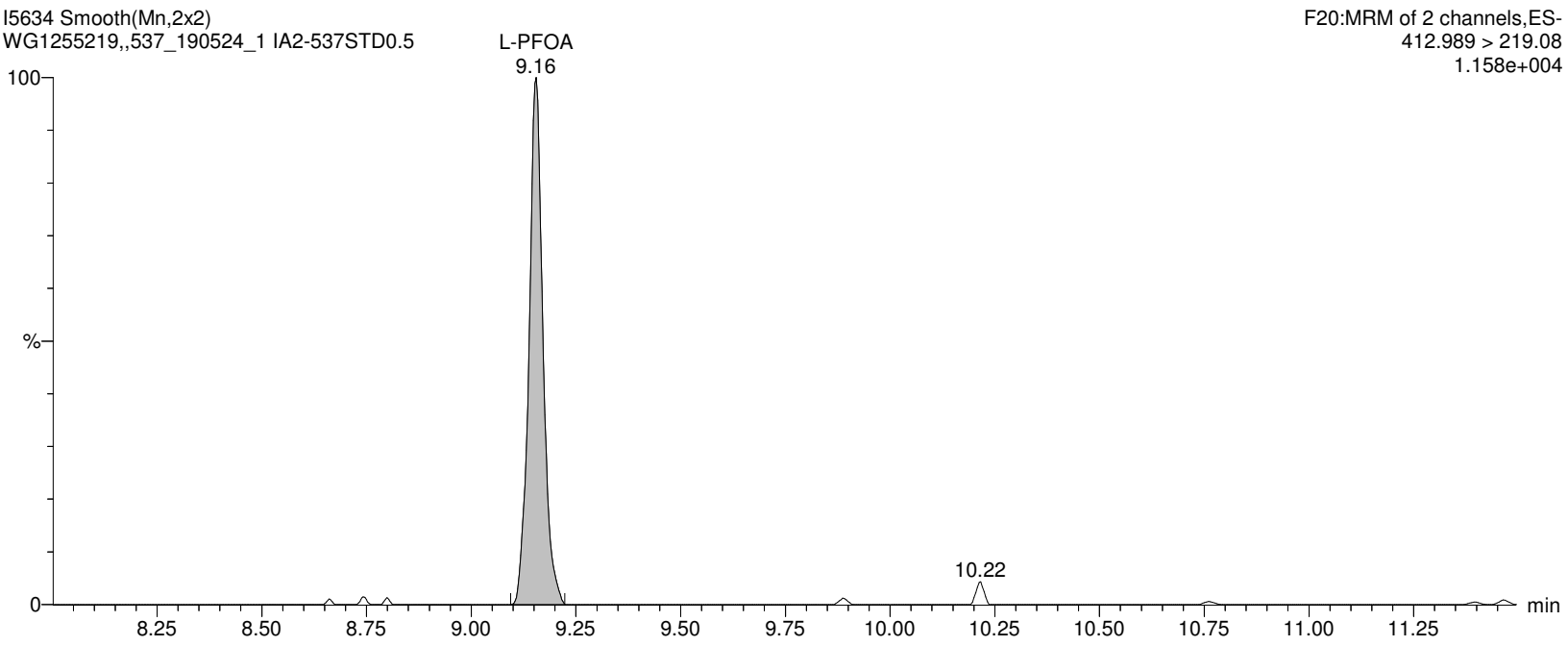
all concentration units in (ng/mL)

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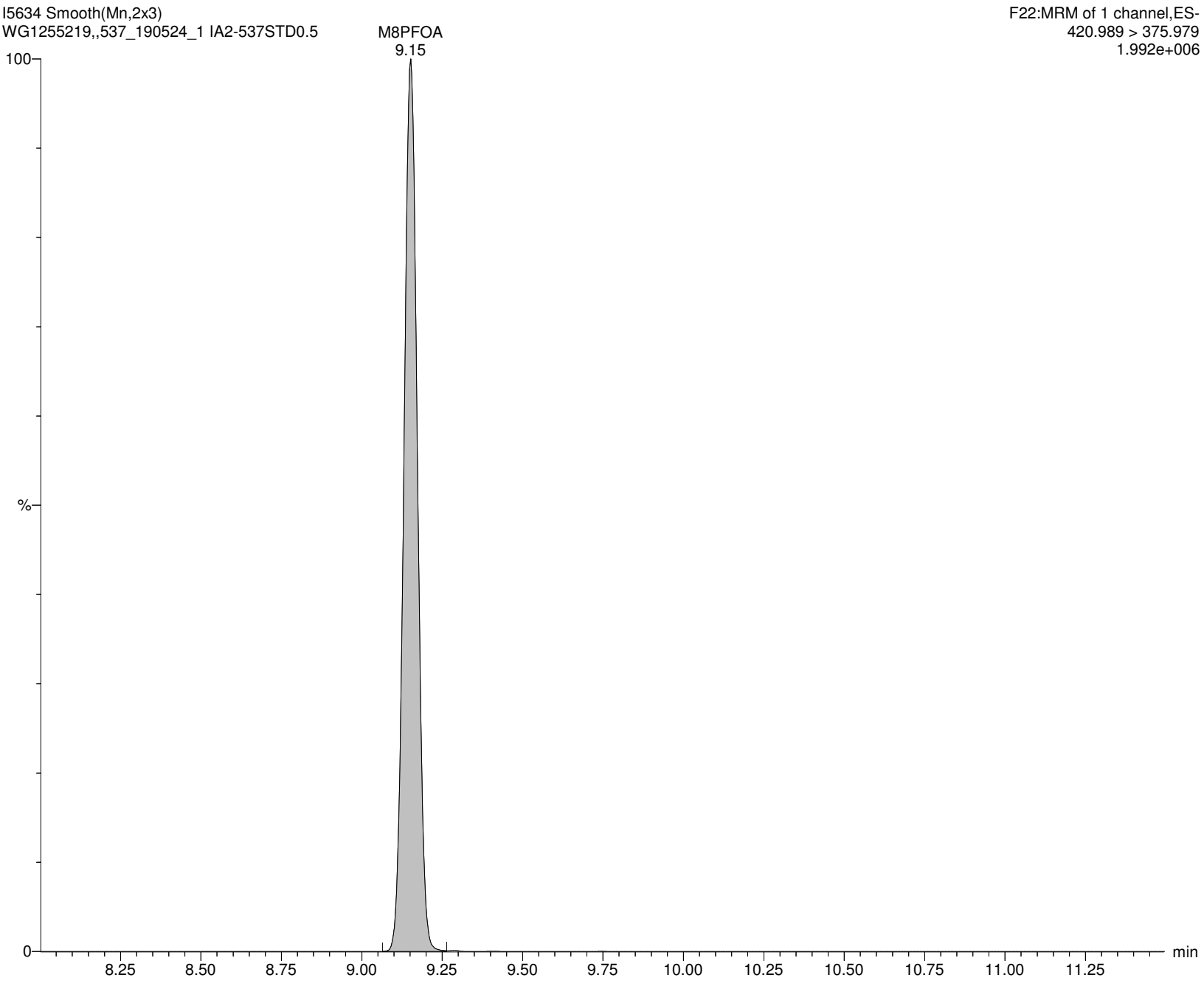


all concentration units in (ng/mL)

Alpha Analytical Inc.
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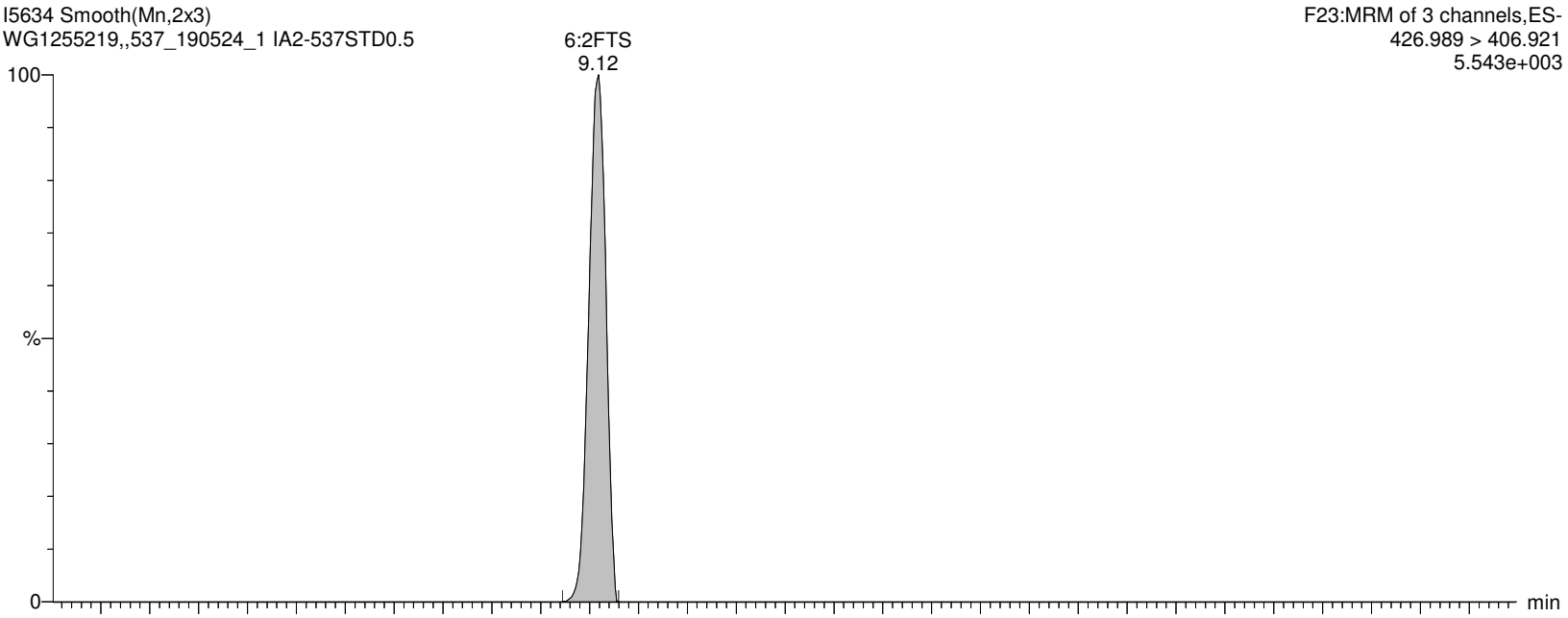


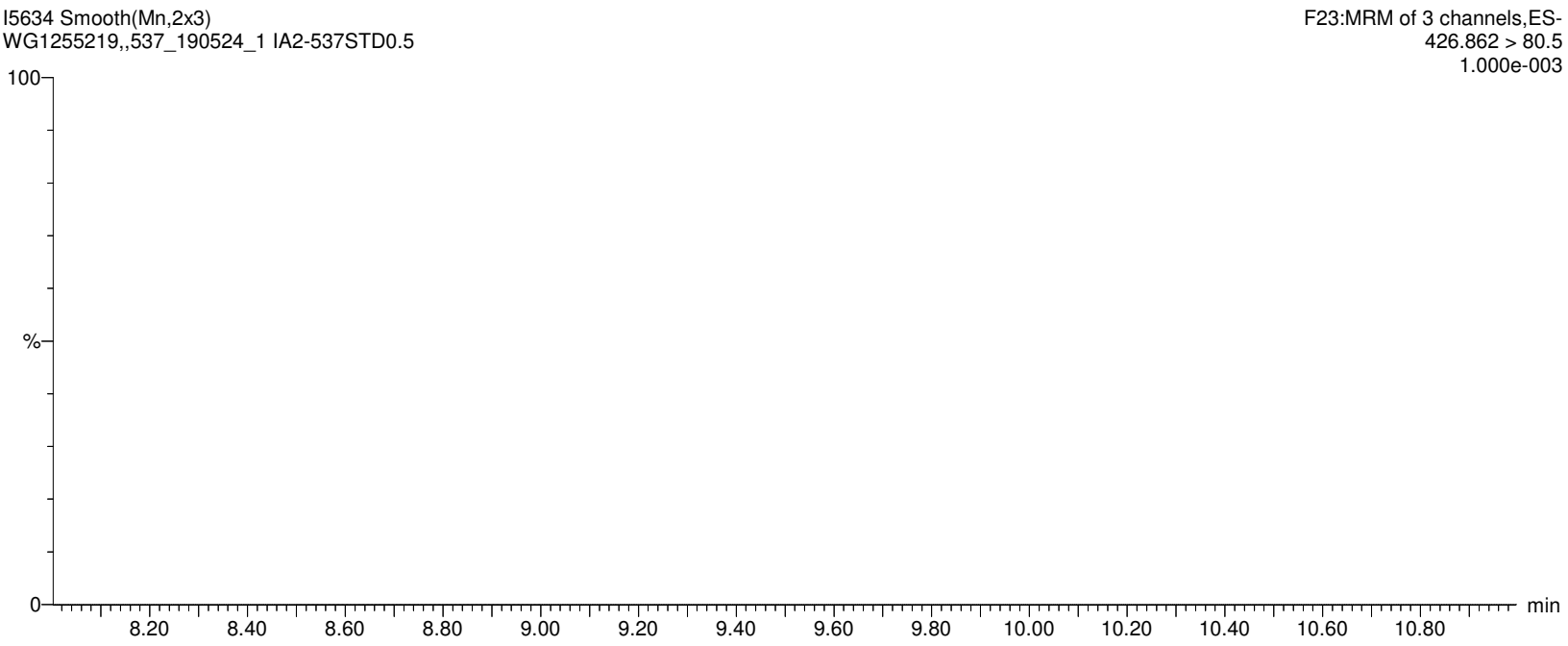
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Alpha Analytical Inc.
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6:2FTS



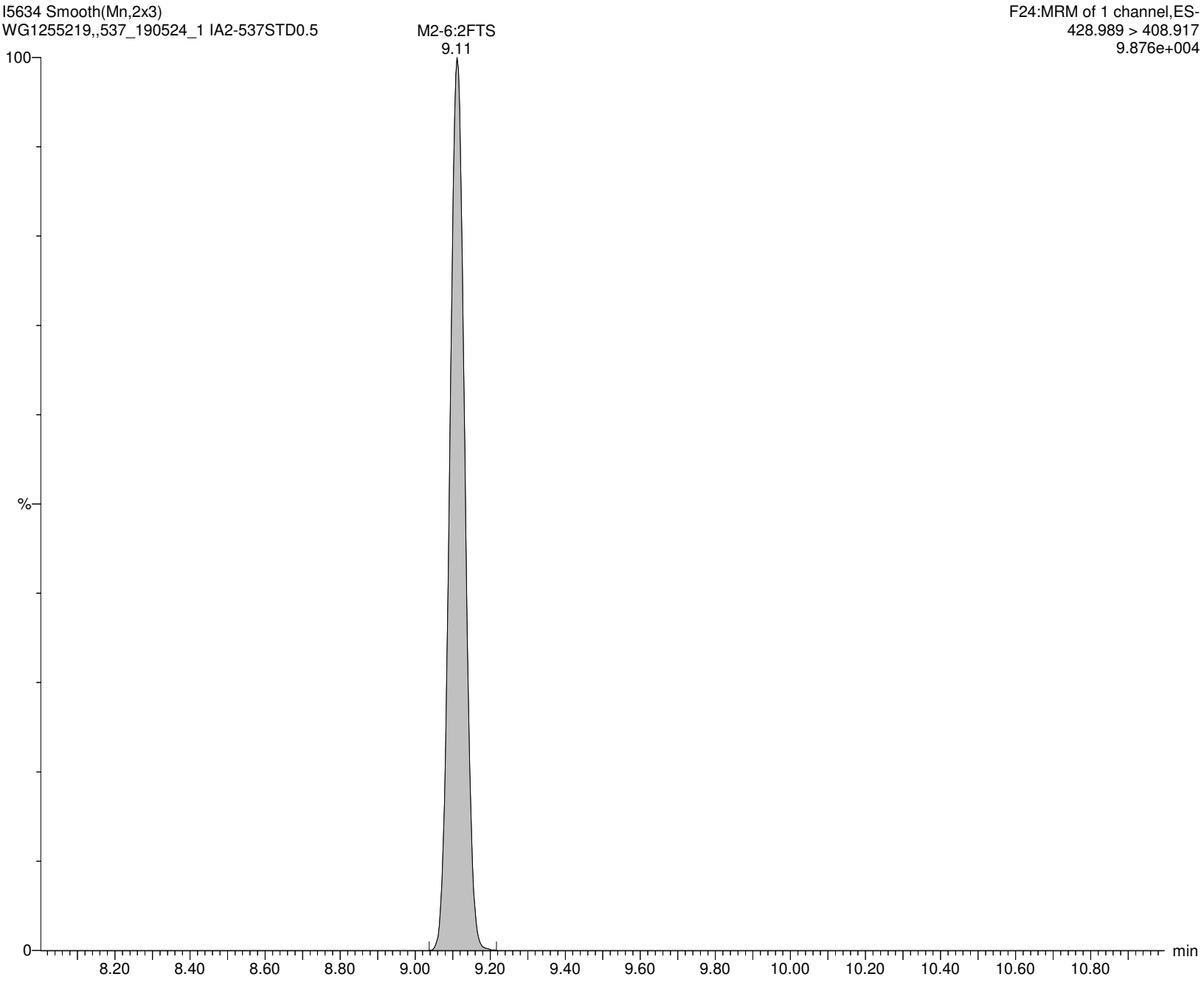


all concentration units in (ng/mL)

Alpha Analytical Inc.
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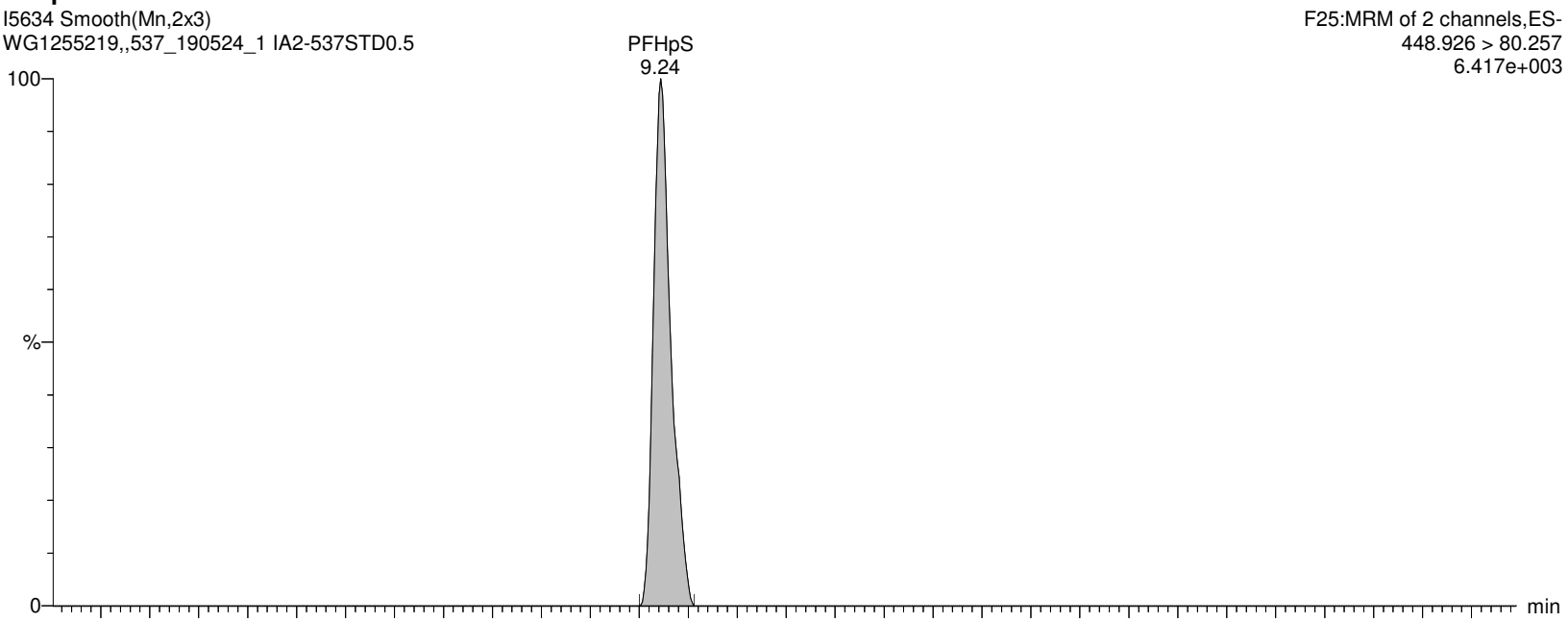


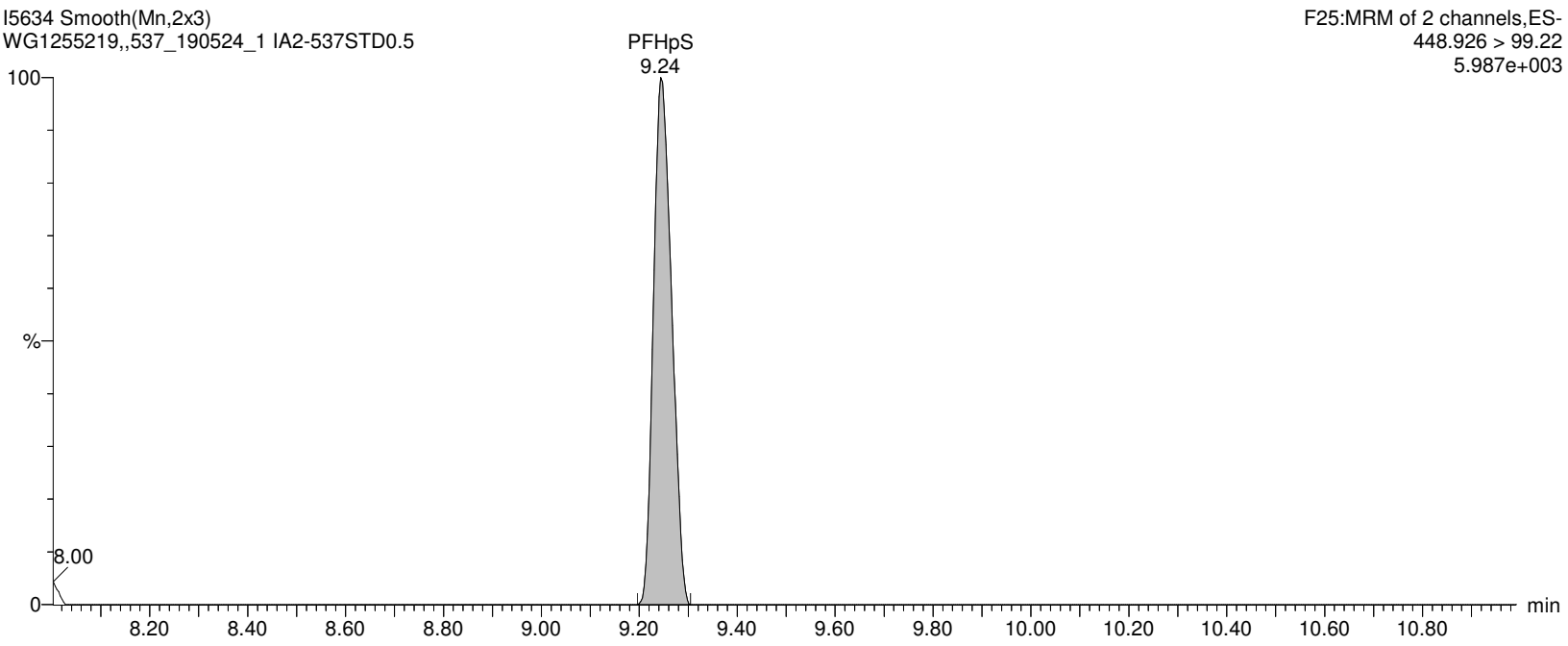
all concentration units in (ng/mL)

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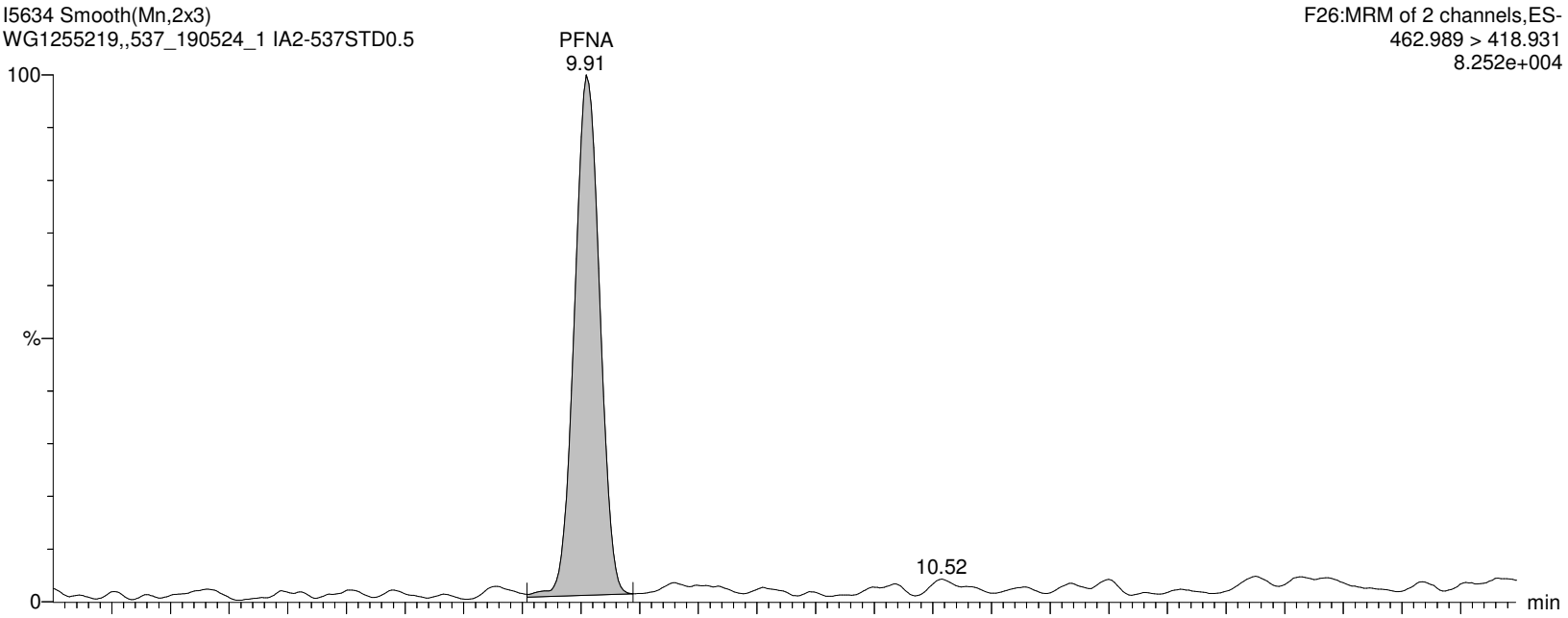


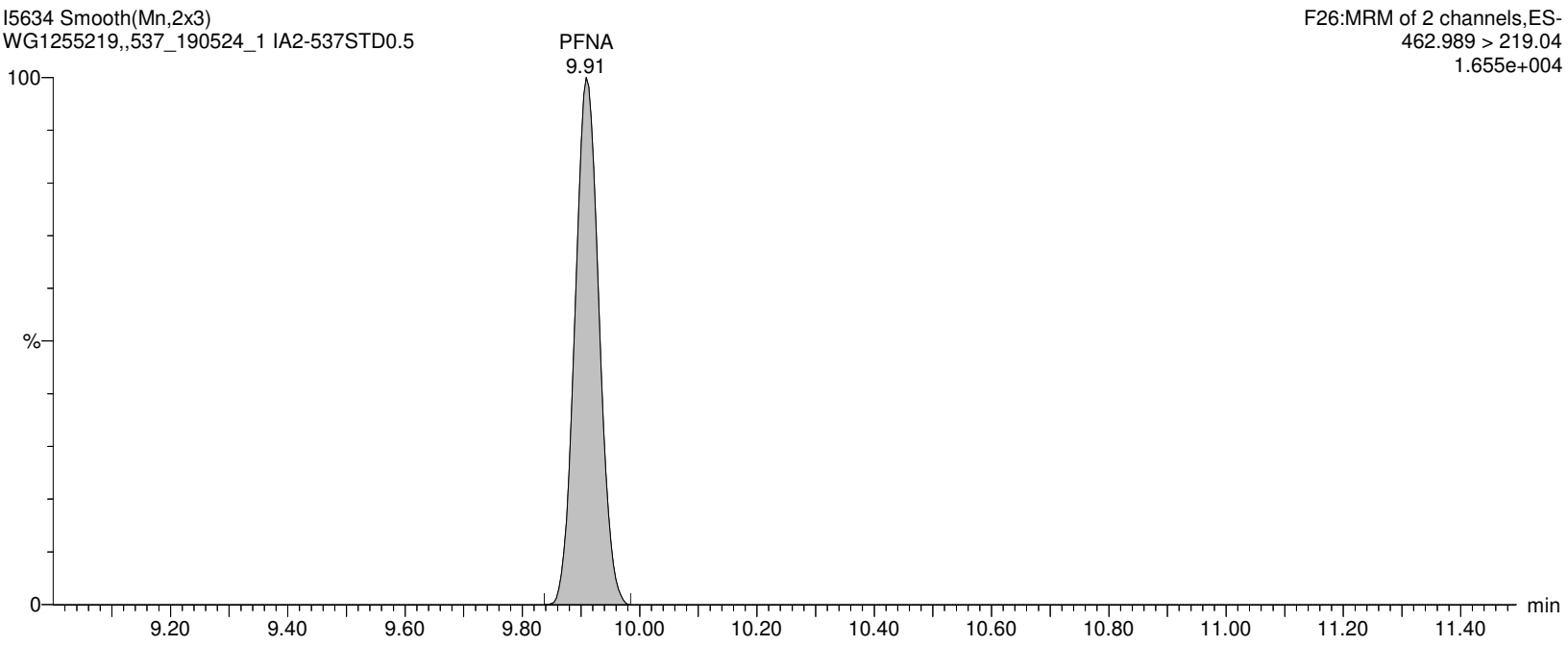
all concentration units in (ng/mL)

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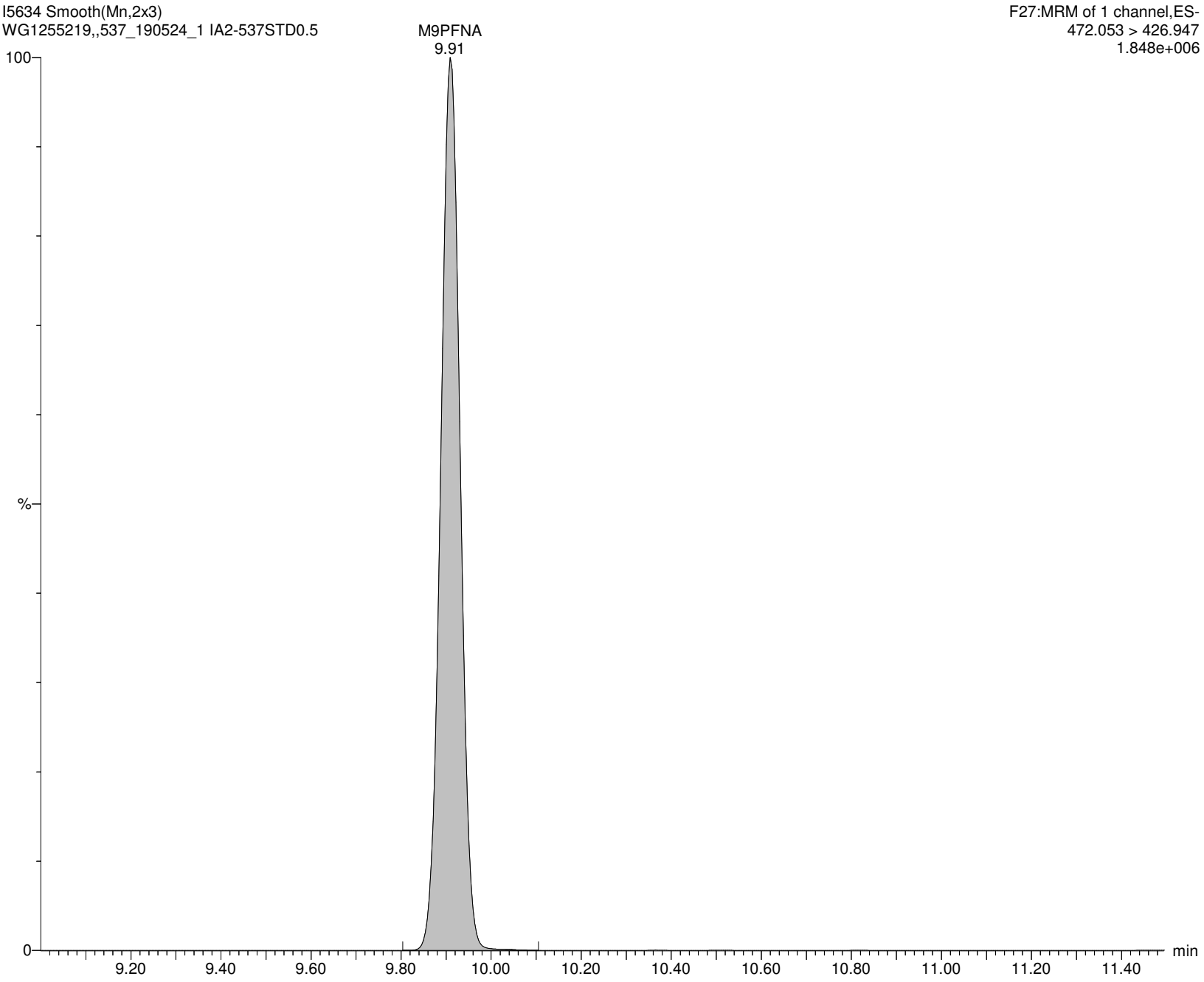


all concentration units in (ng/mL)

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M9PFNA

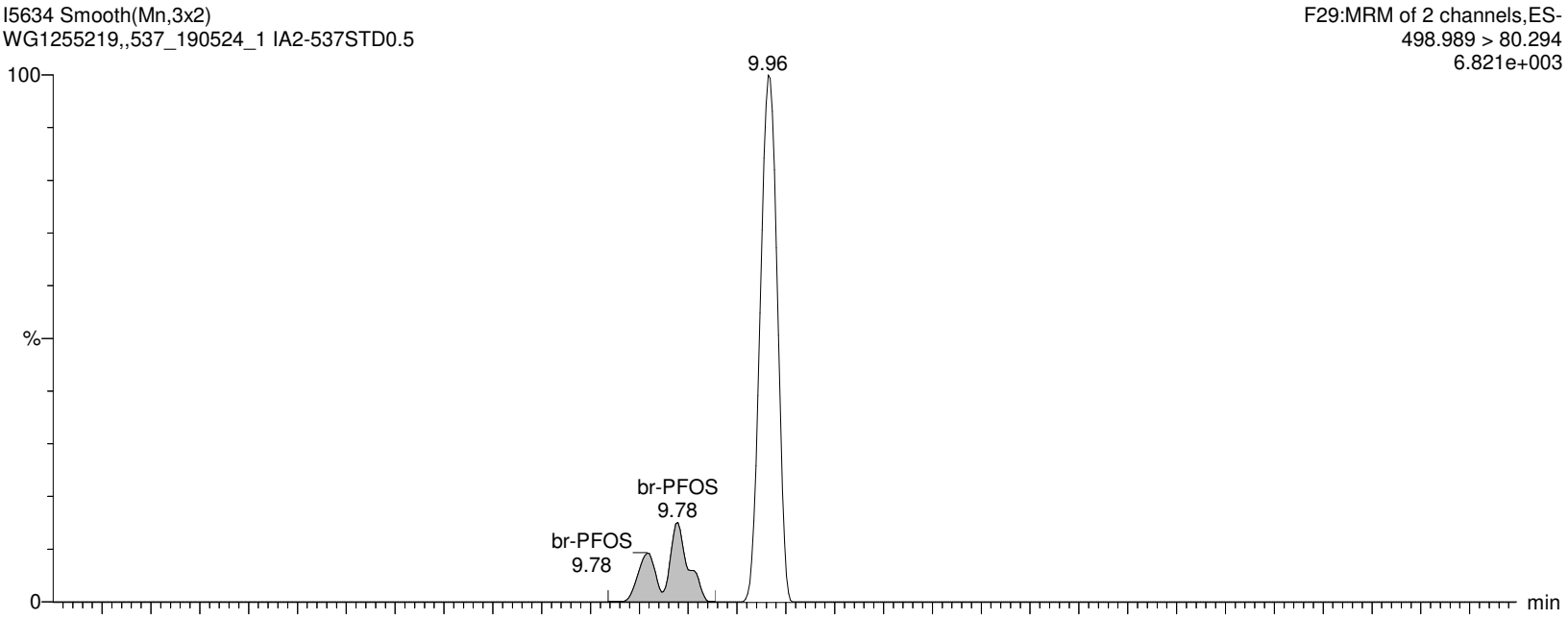


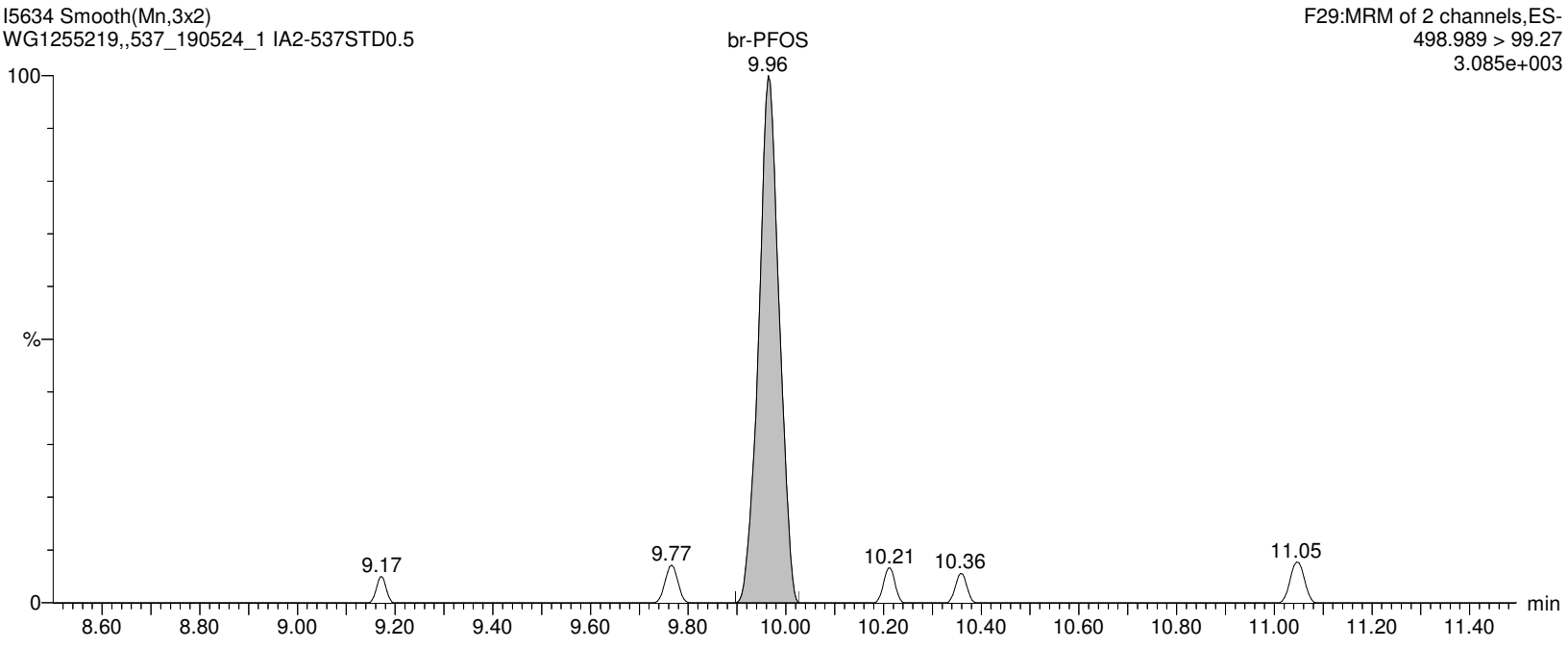
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:30 Eastern Daylight Time

Name: I5634
ID: IA2-537STD0.5
Date: 01-Jul-2019
Time: 17:57:23
Description: WG1255219,,537_190524_1
User: LCMS02:JW
Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEB0050
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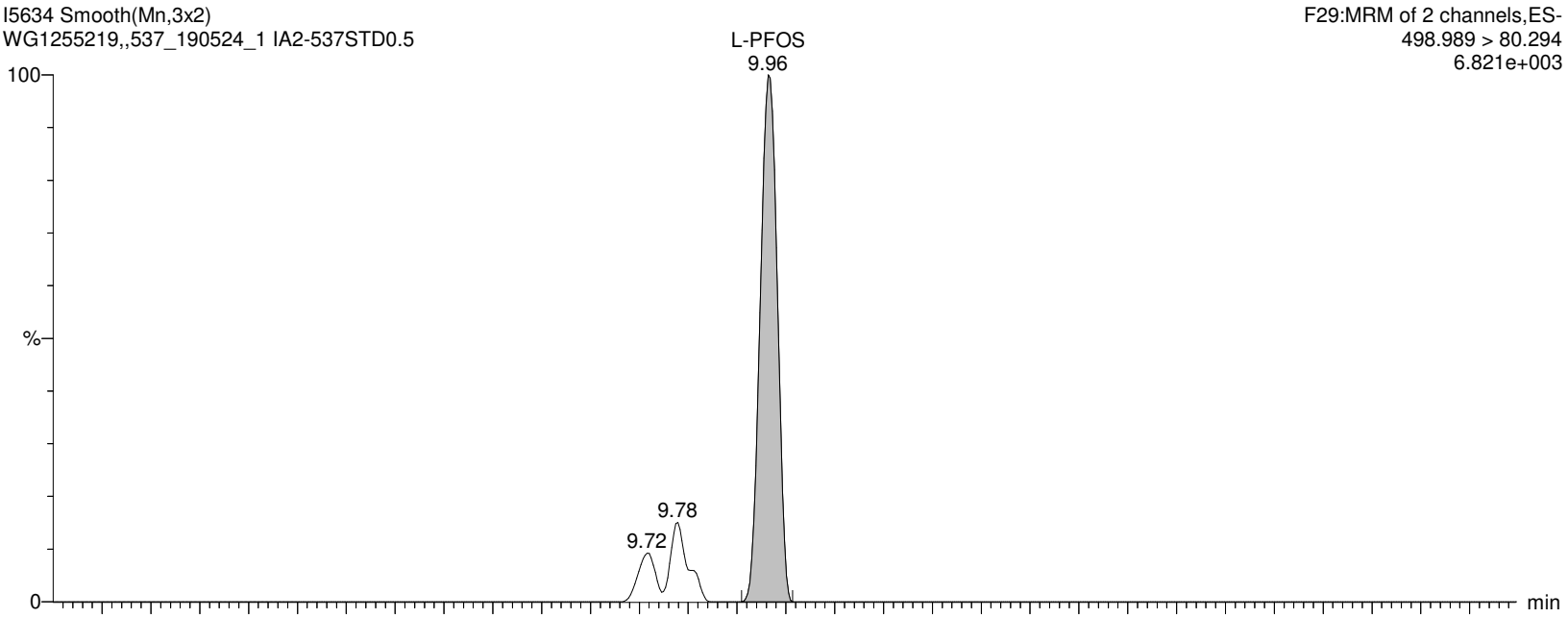


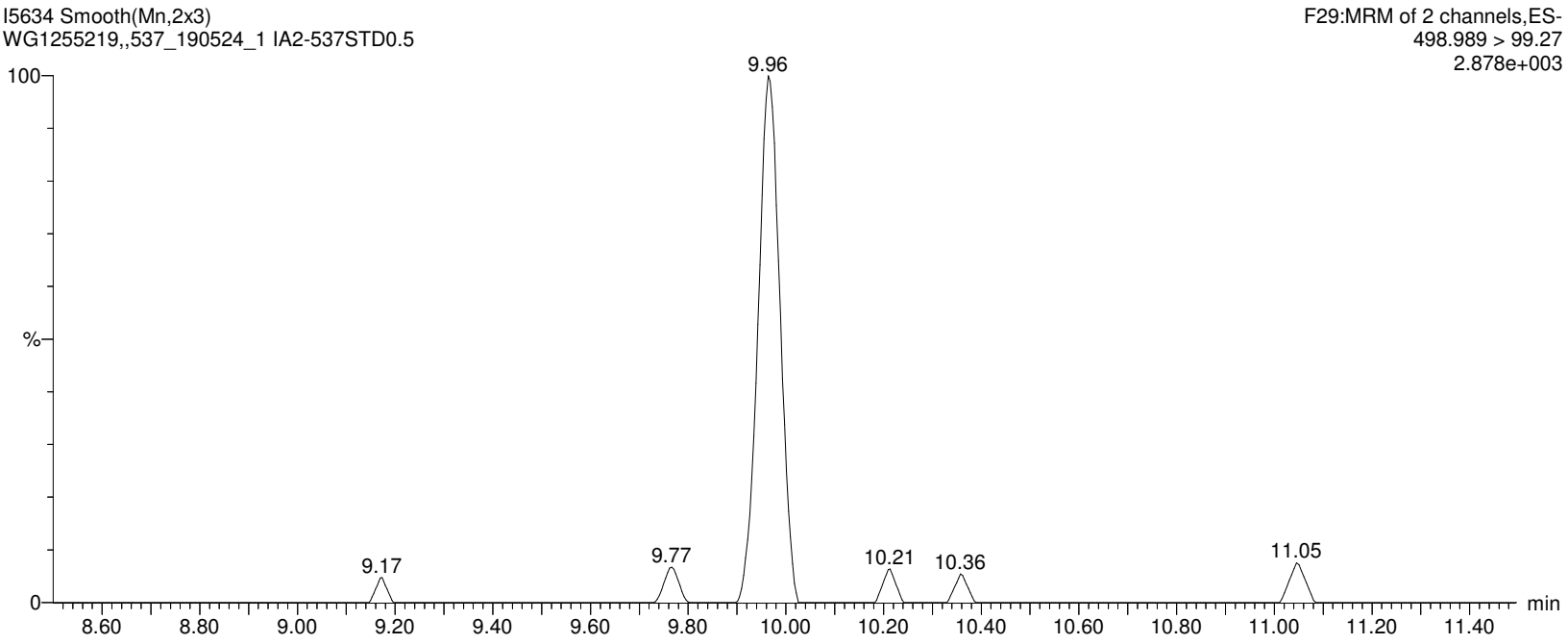
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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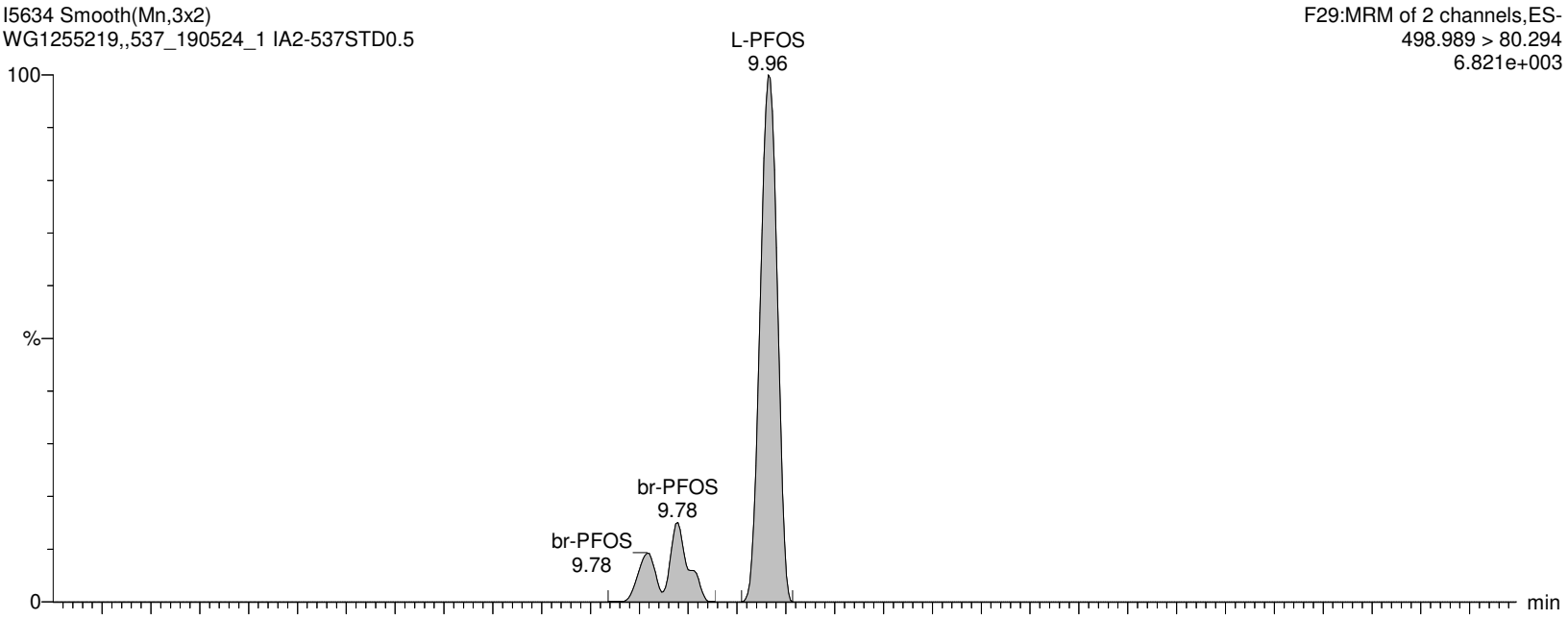


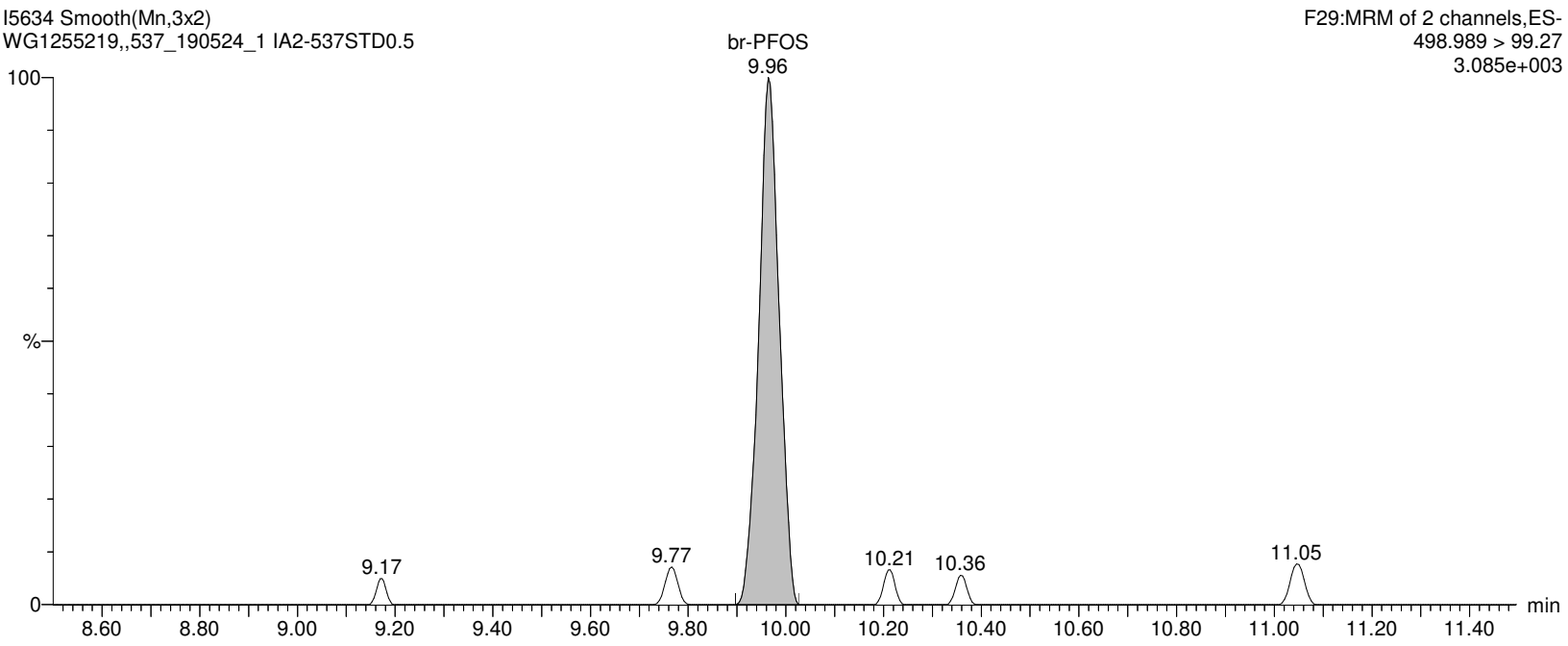
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
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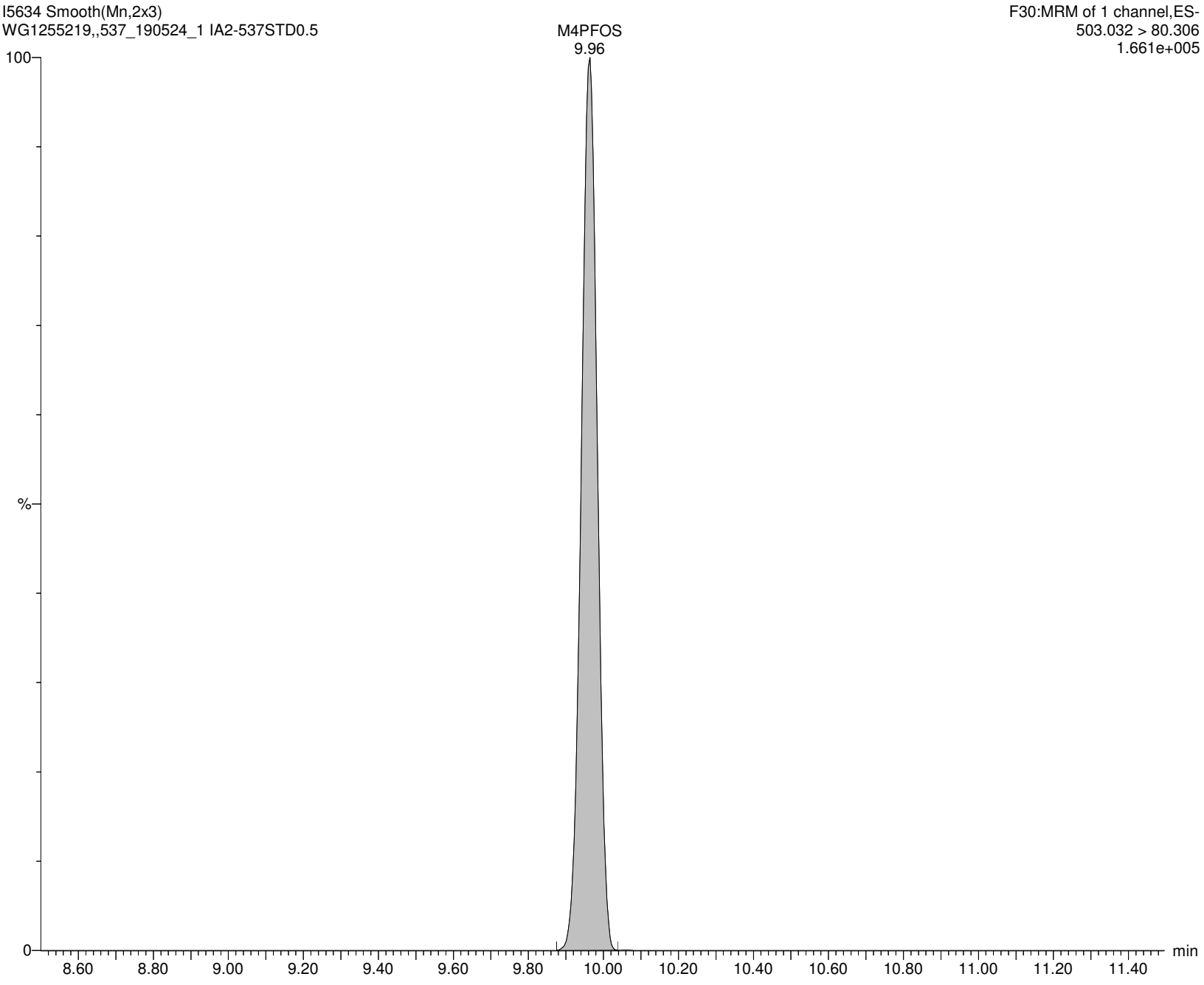


all concentration units in (ng/mL)

Alpha Analytical Inc.
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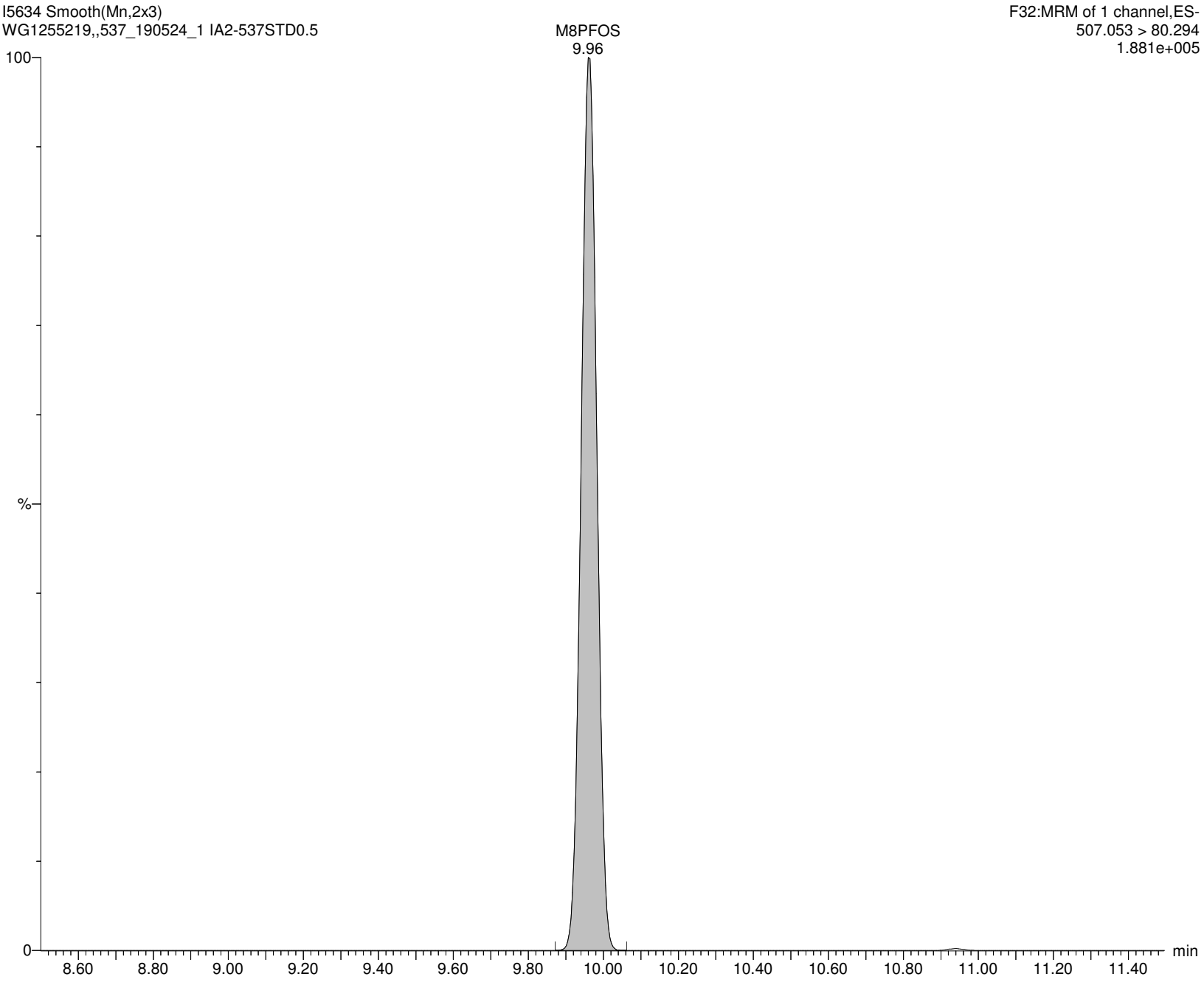


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
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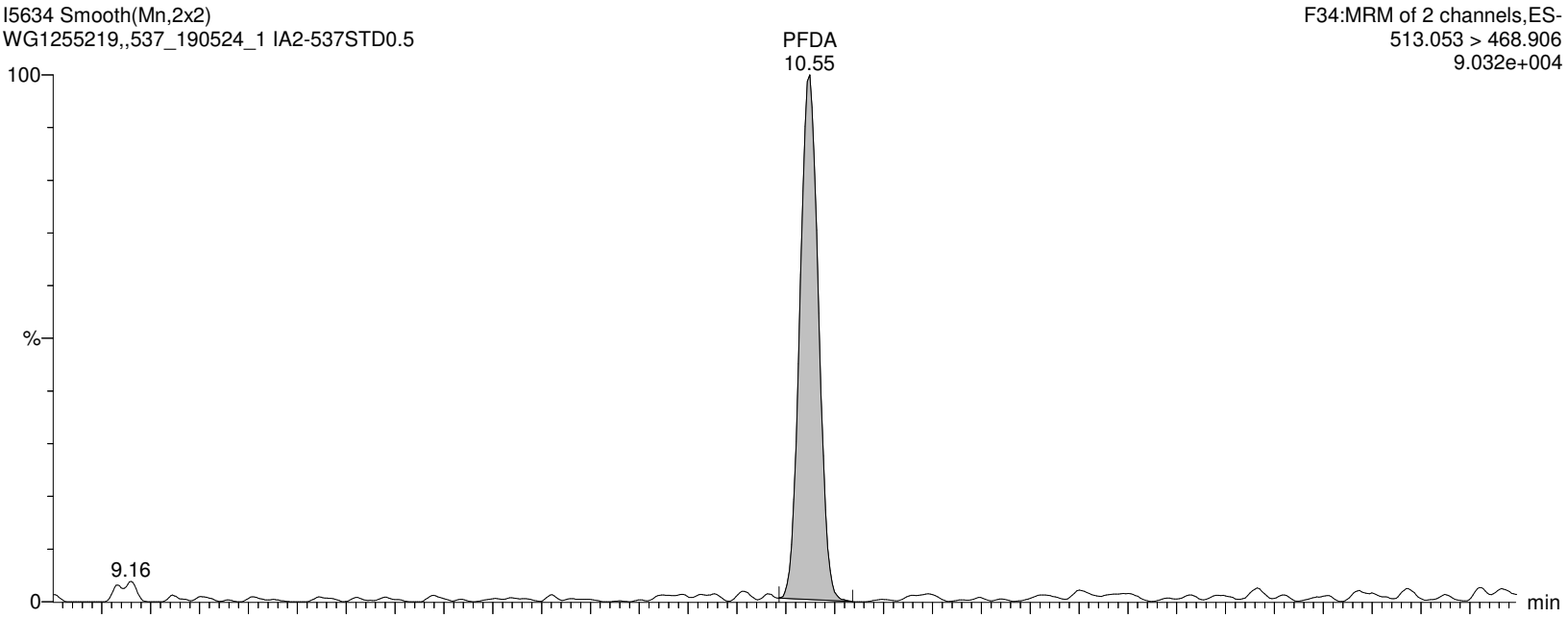


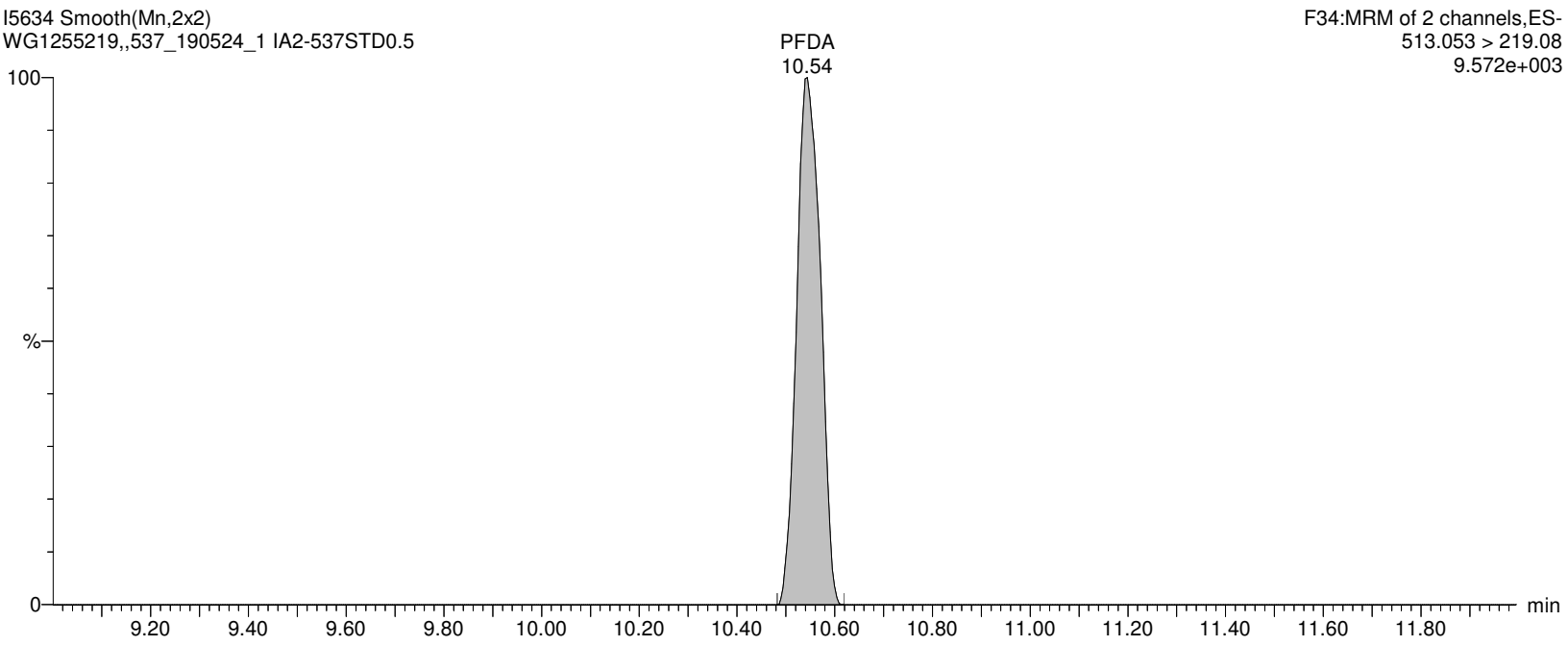
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
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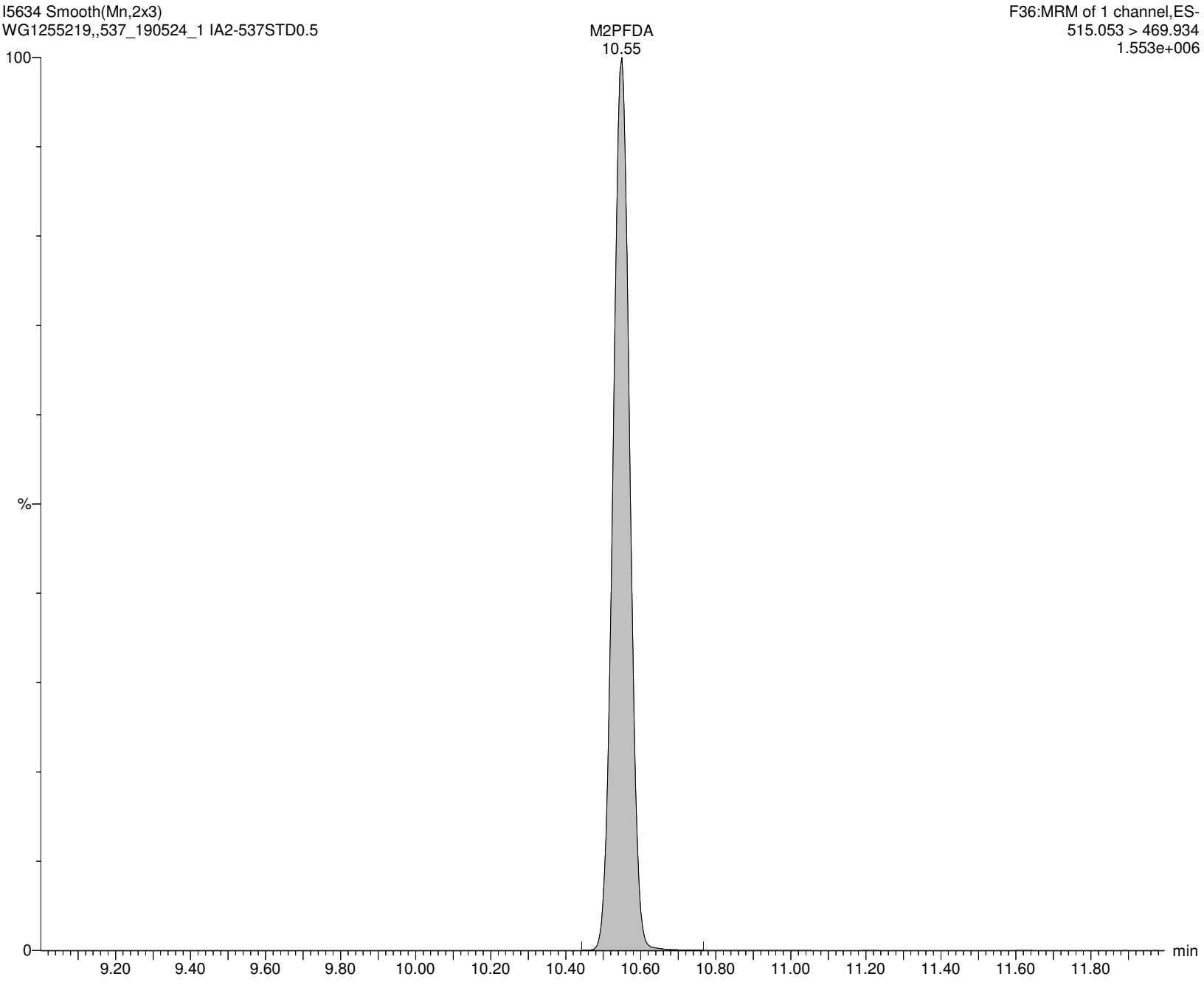


all concentration units in (ng/mL)

Alpha Analytical Inc.
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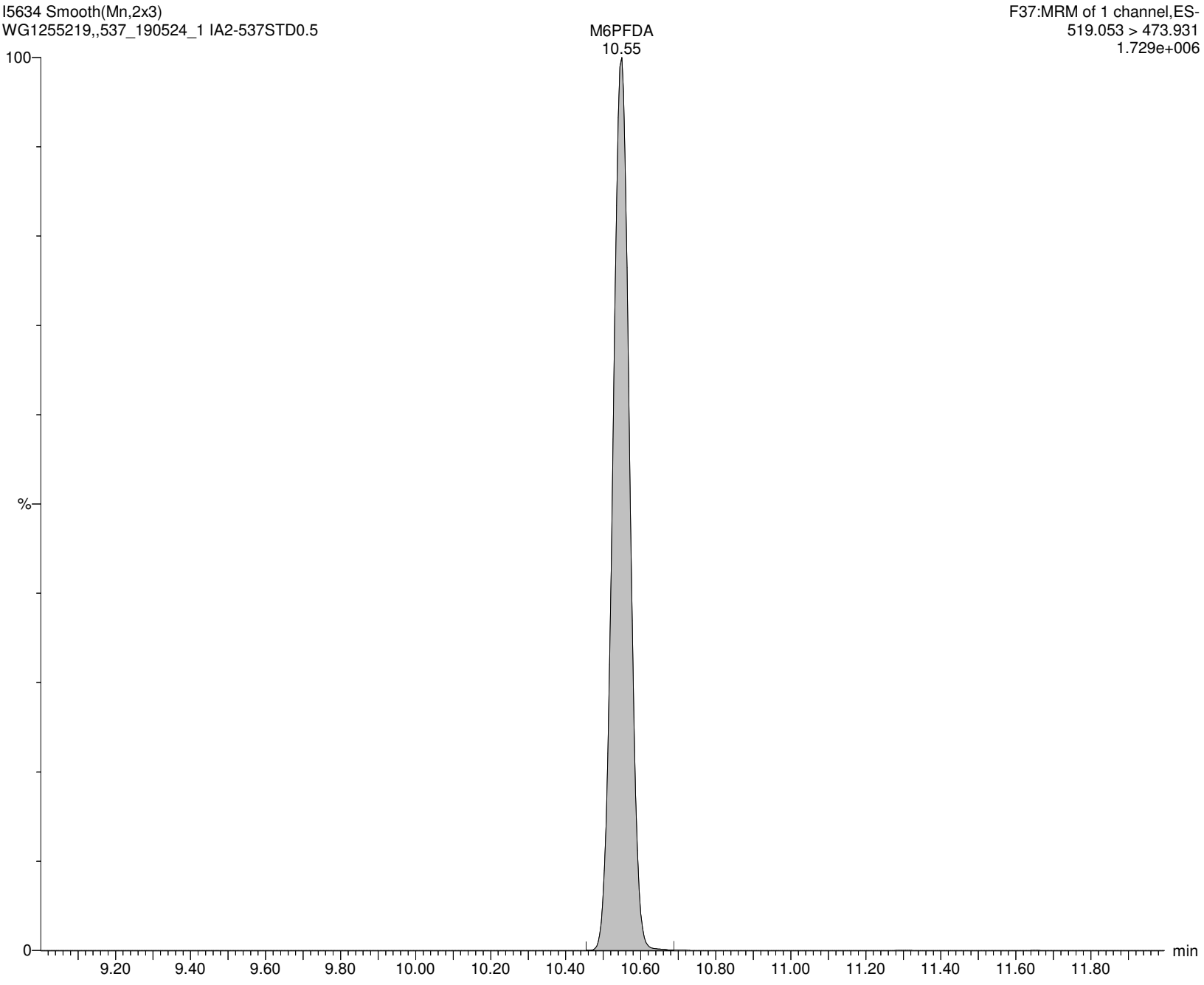


all concentration units in (ng/mL)

Alpha Analytical Inc.
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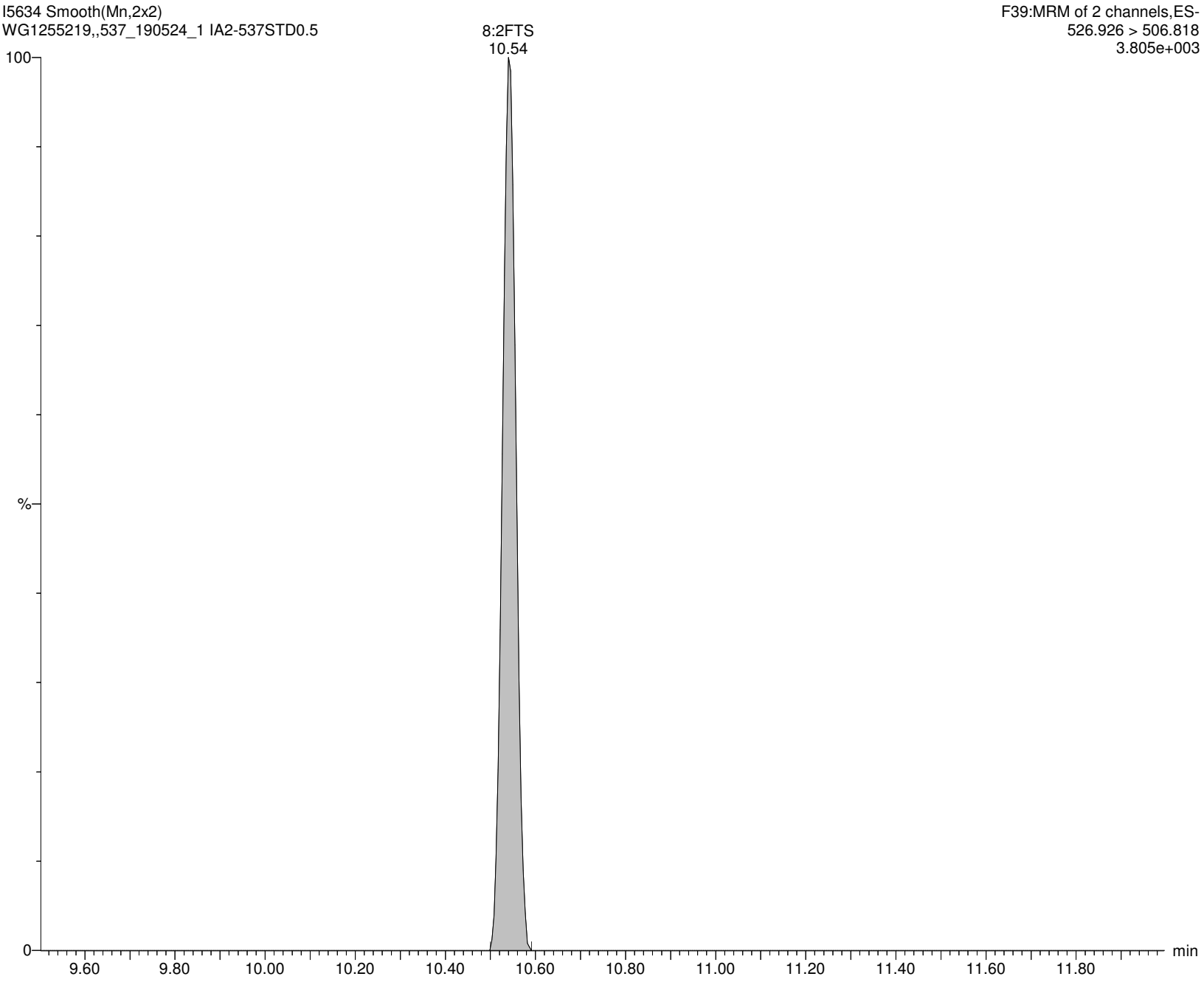


all concentration units in (ng/mL)

Alpha Analytical Inc.
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8:2FTS

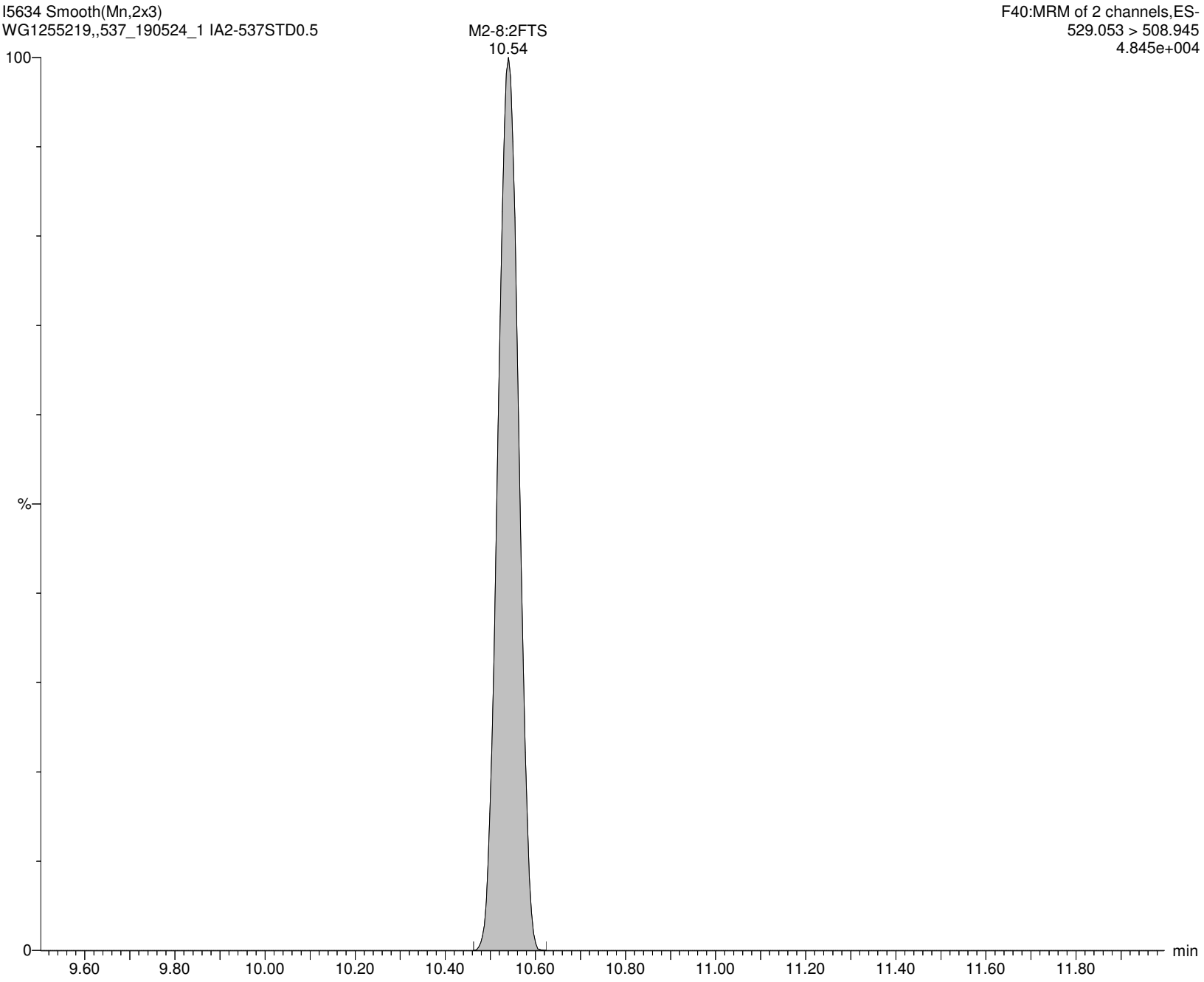


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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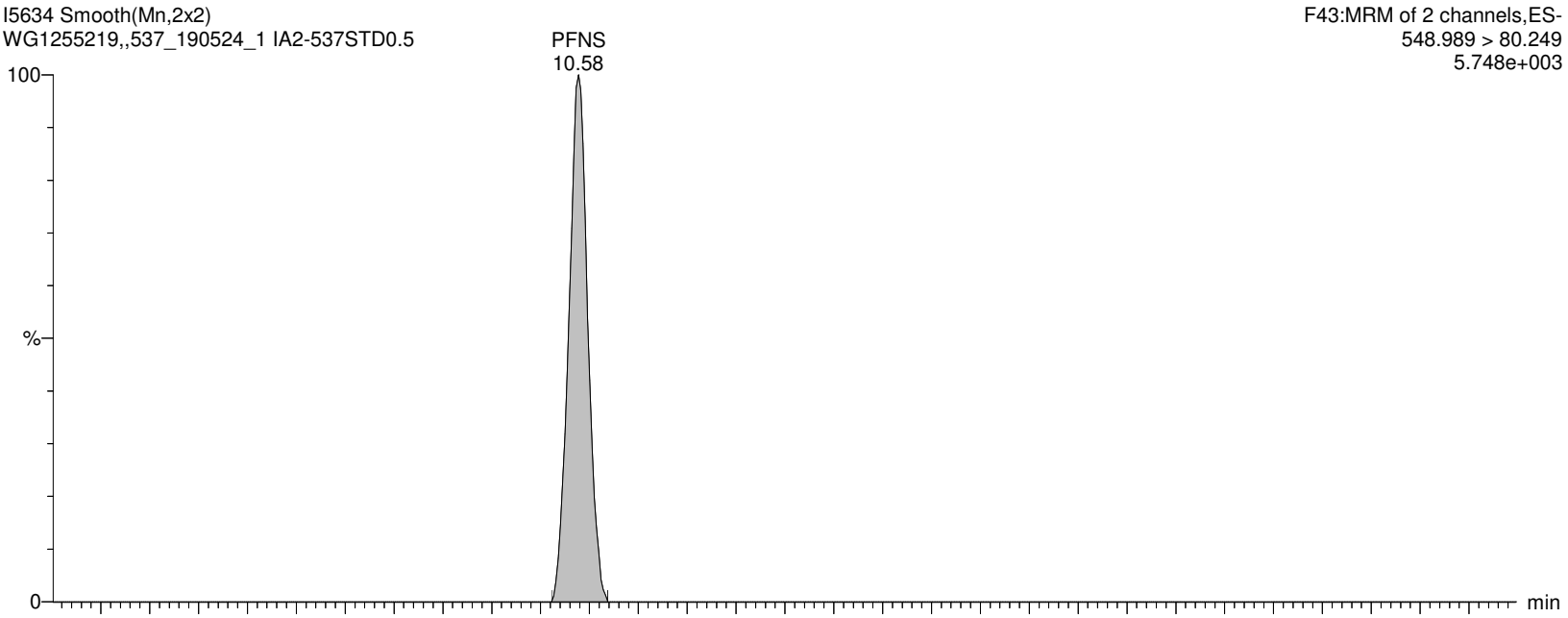


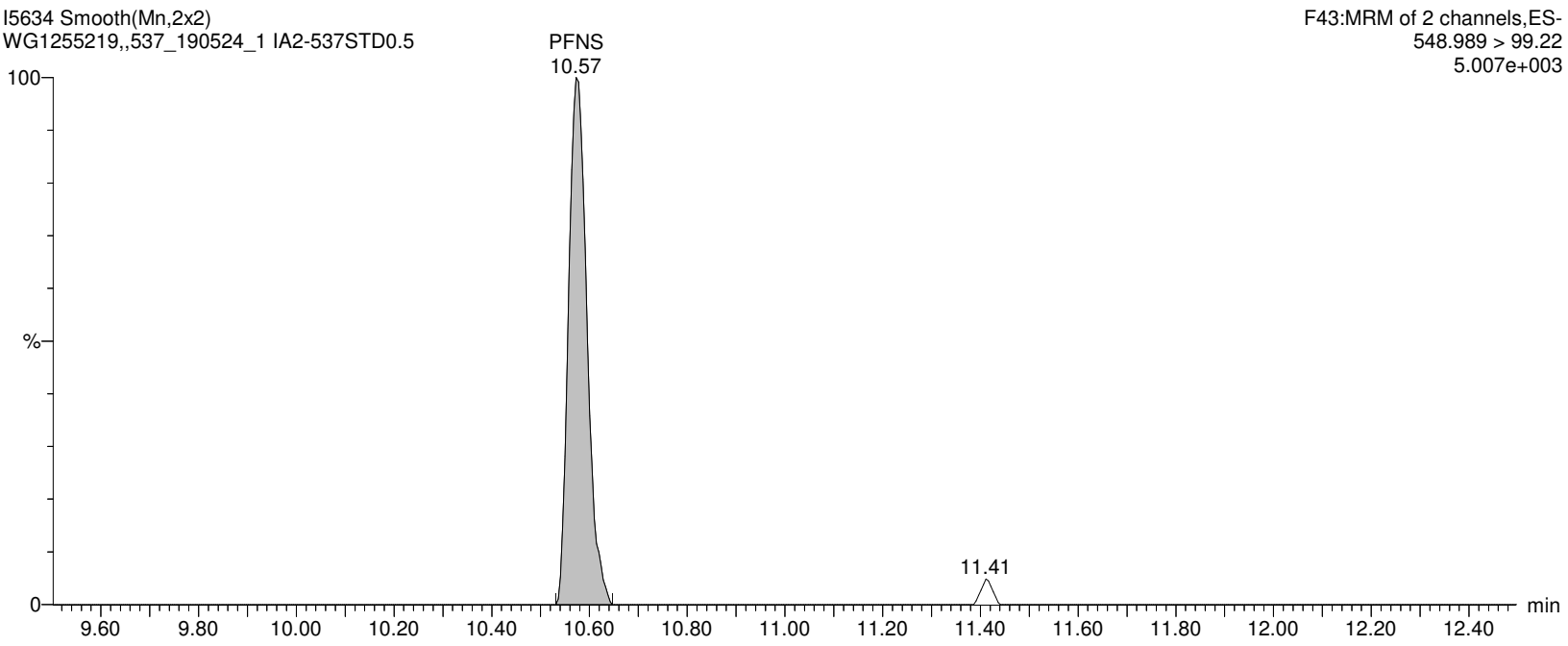
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
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PFNS



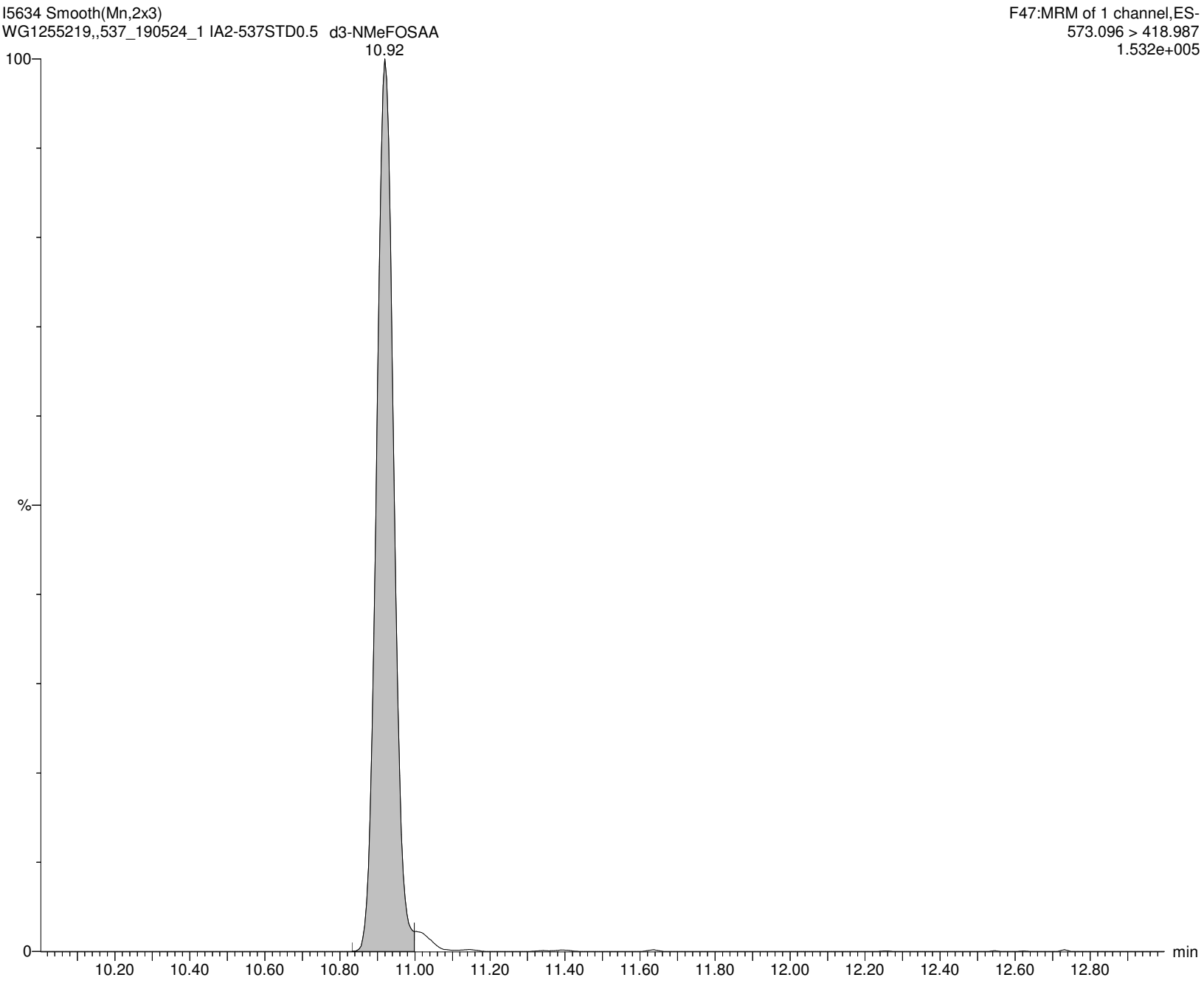


all concentration units in (ng/mL)

Alpha Analytical Inc.
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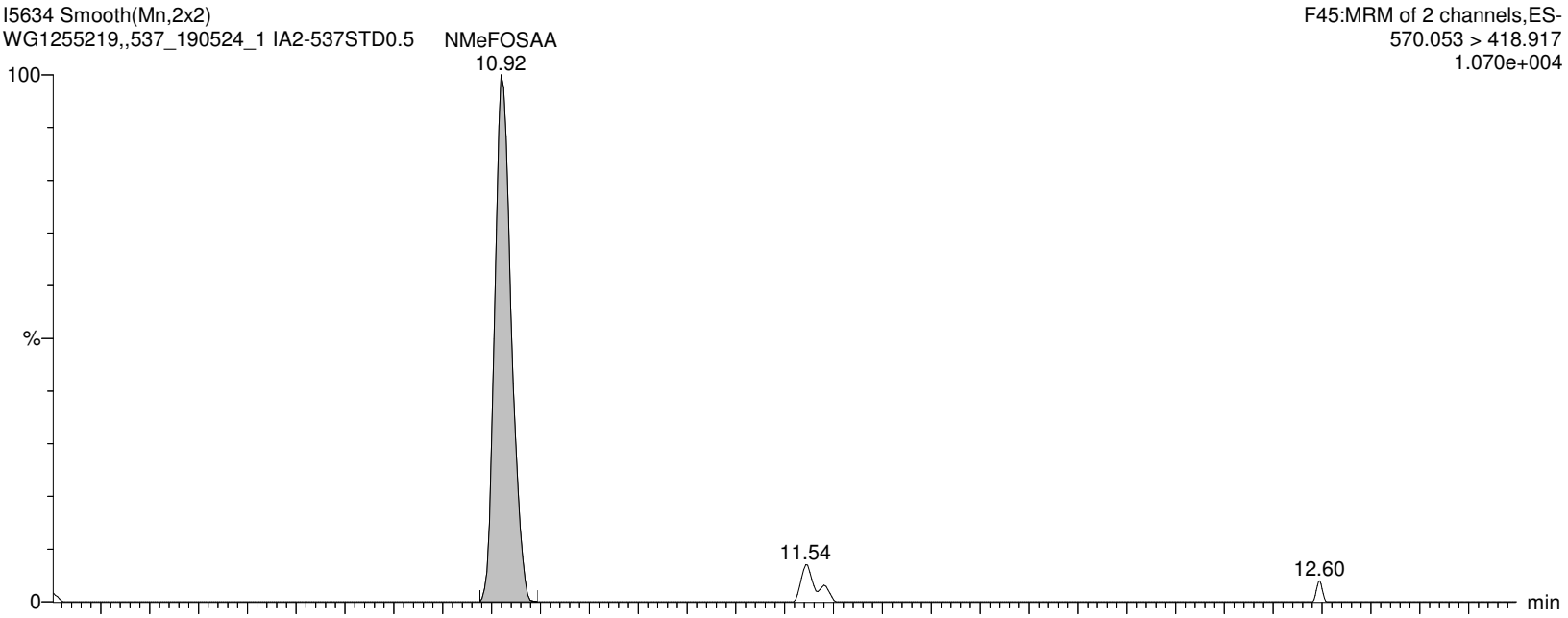


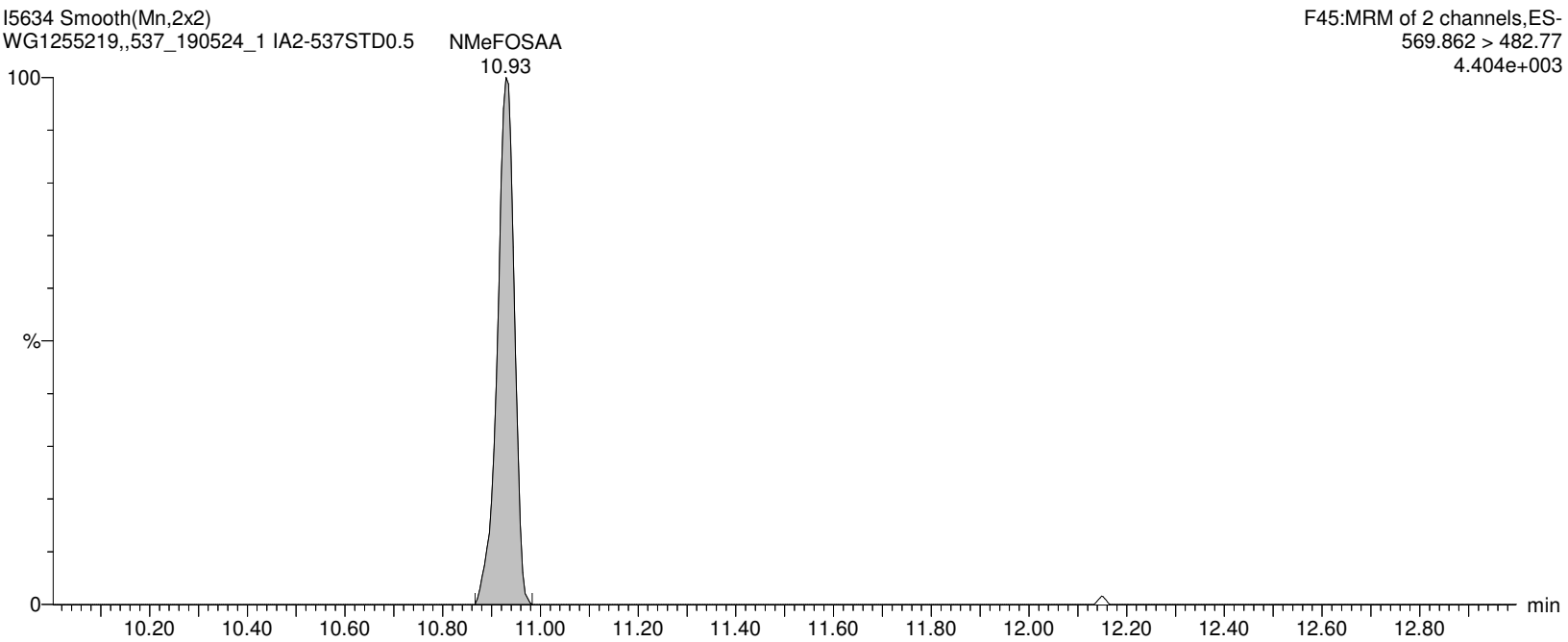
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
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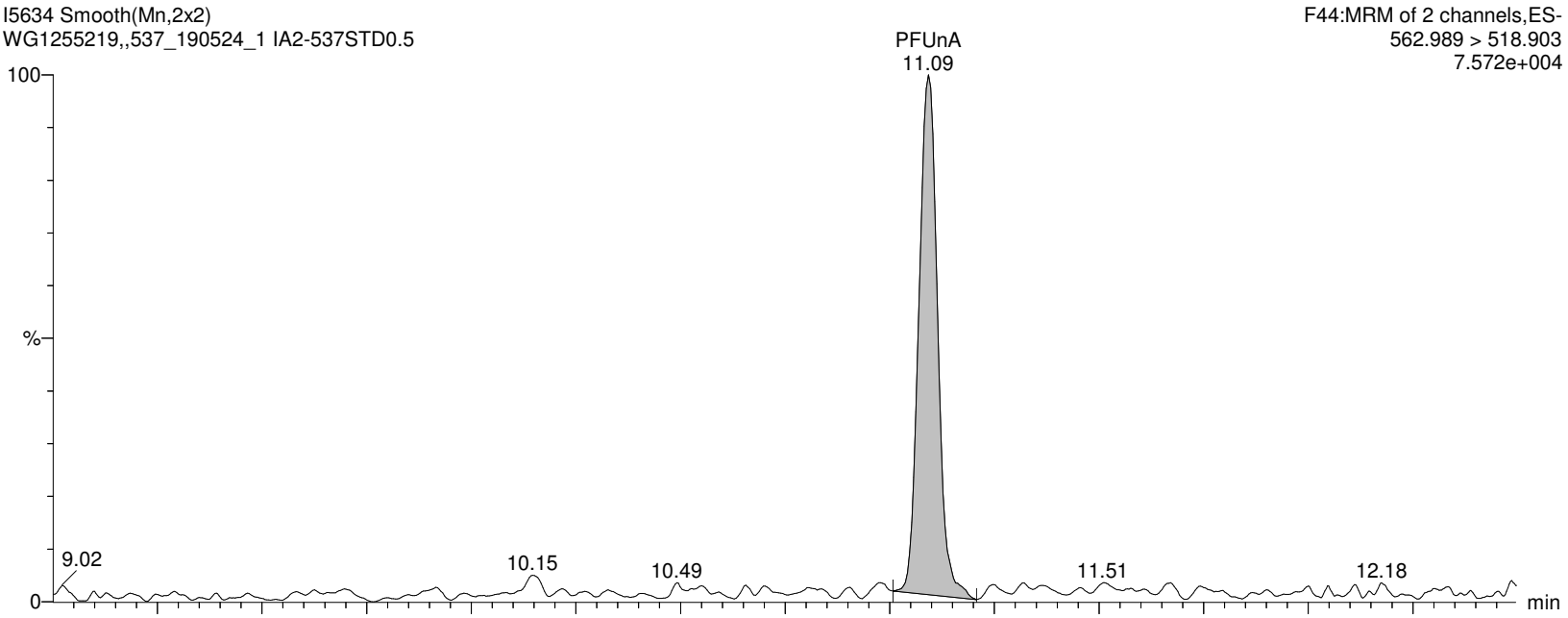


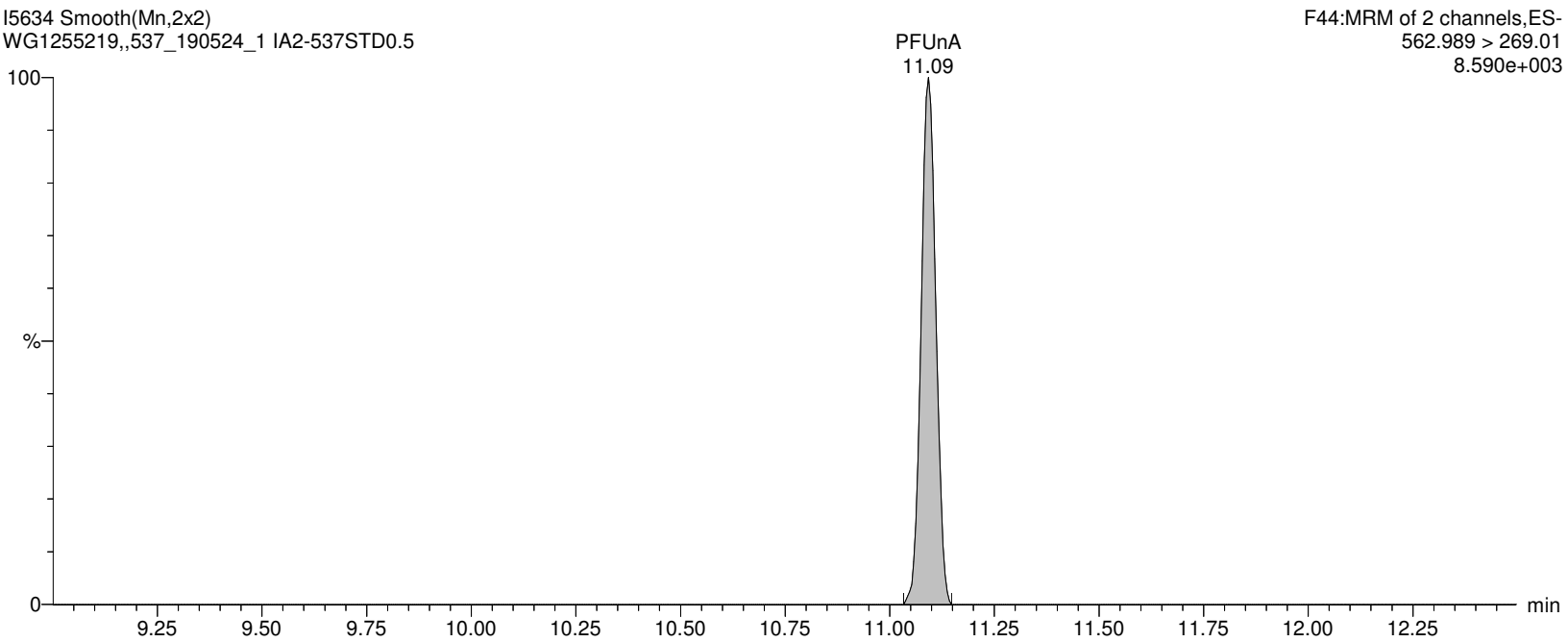
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
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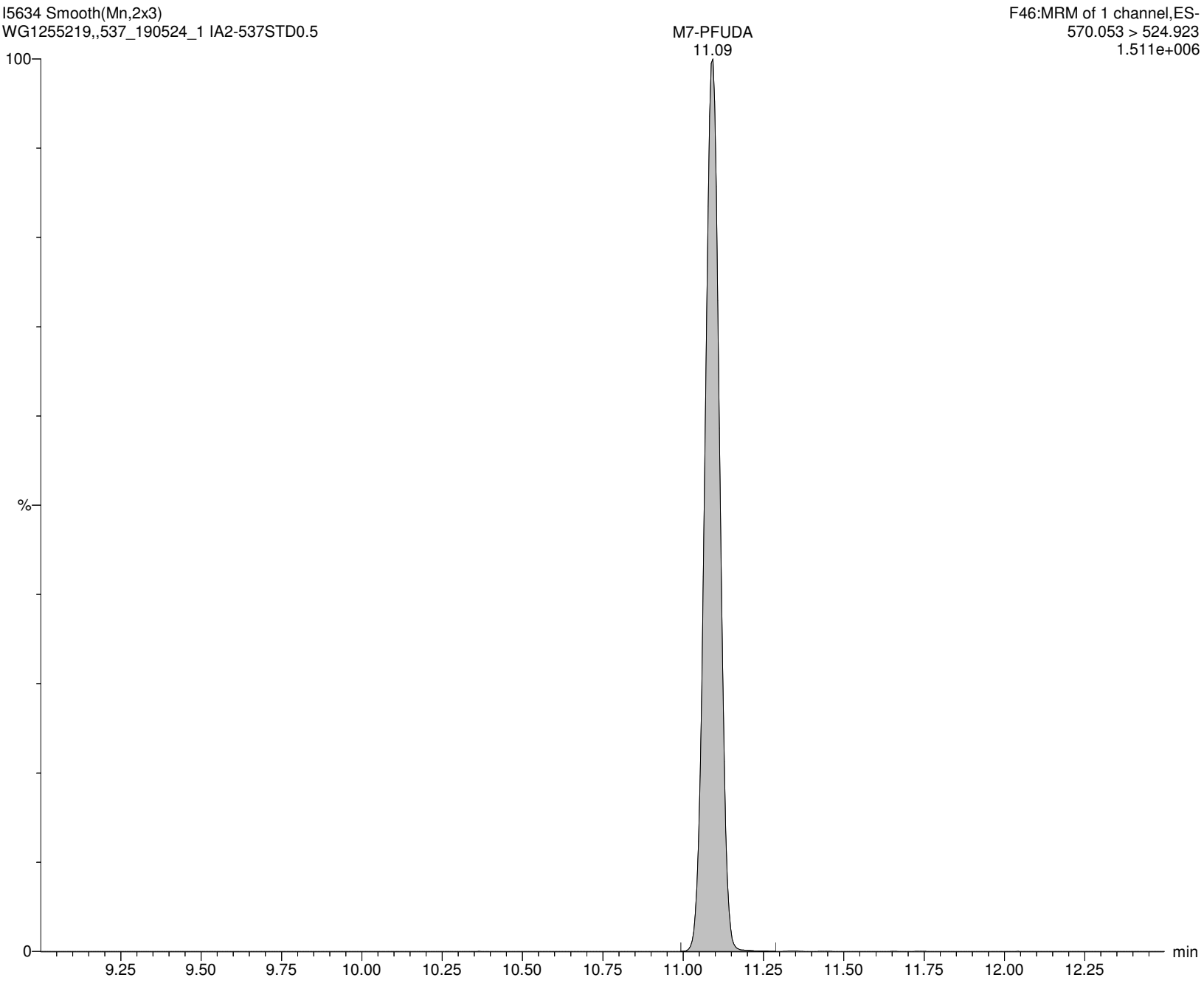


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
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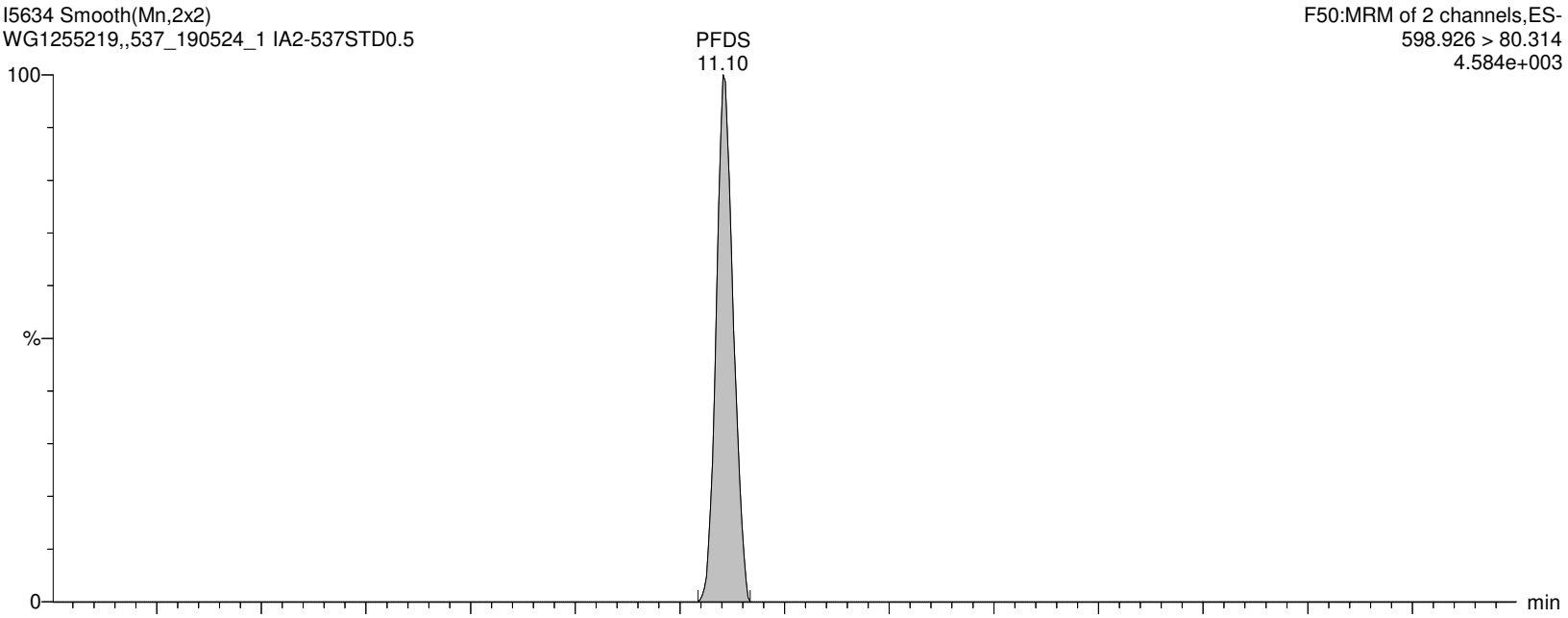


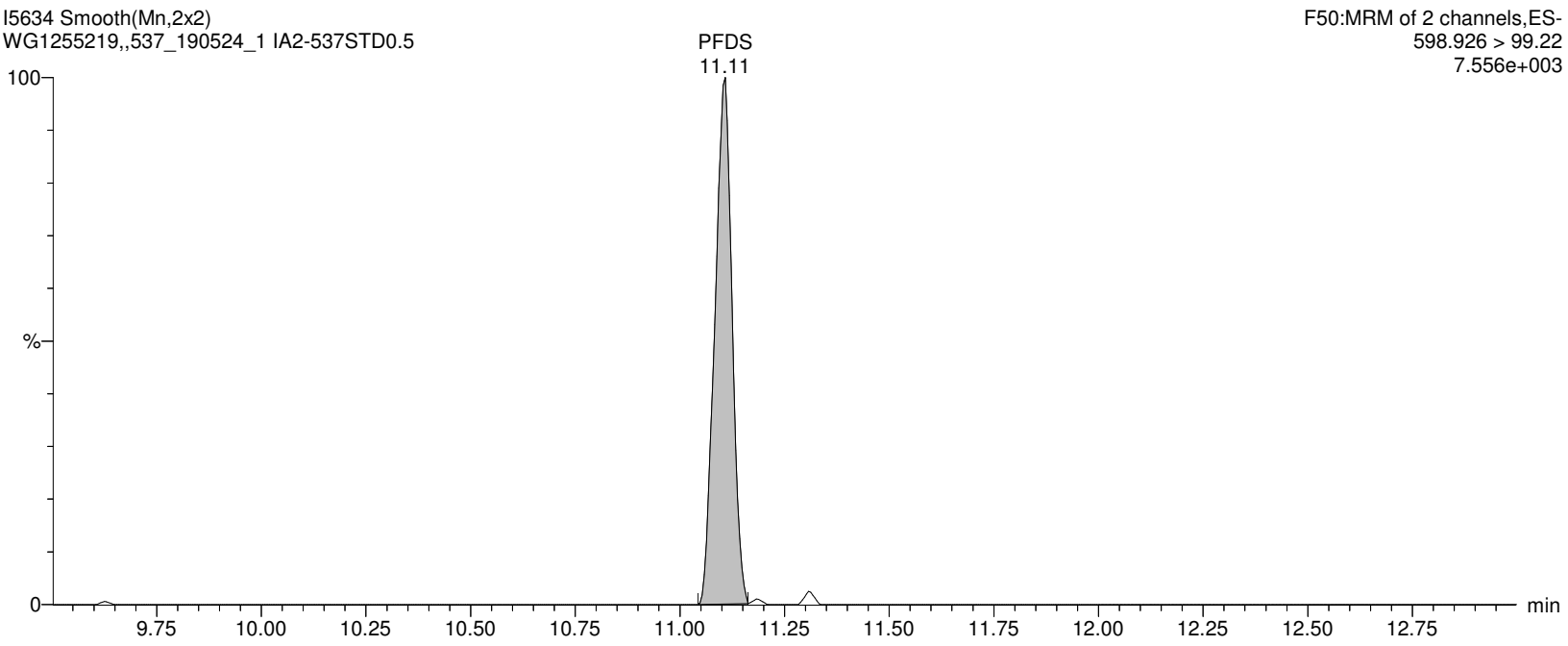
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:30 Eastern Daylight Time

Name: I5634
ID: IA2-537STD0.5
Date: 01-Jul-2019
Time: 17:57:23
Description: WG1255219,,537_190524_1
User: LCMS02:JW
Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
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MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

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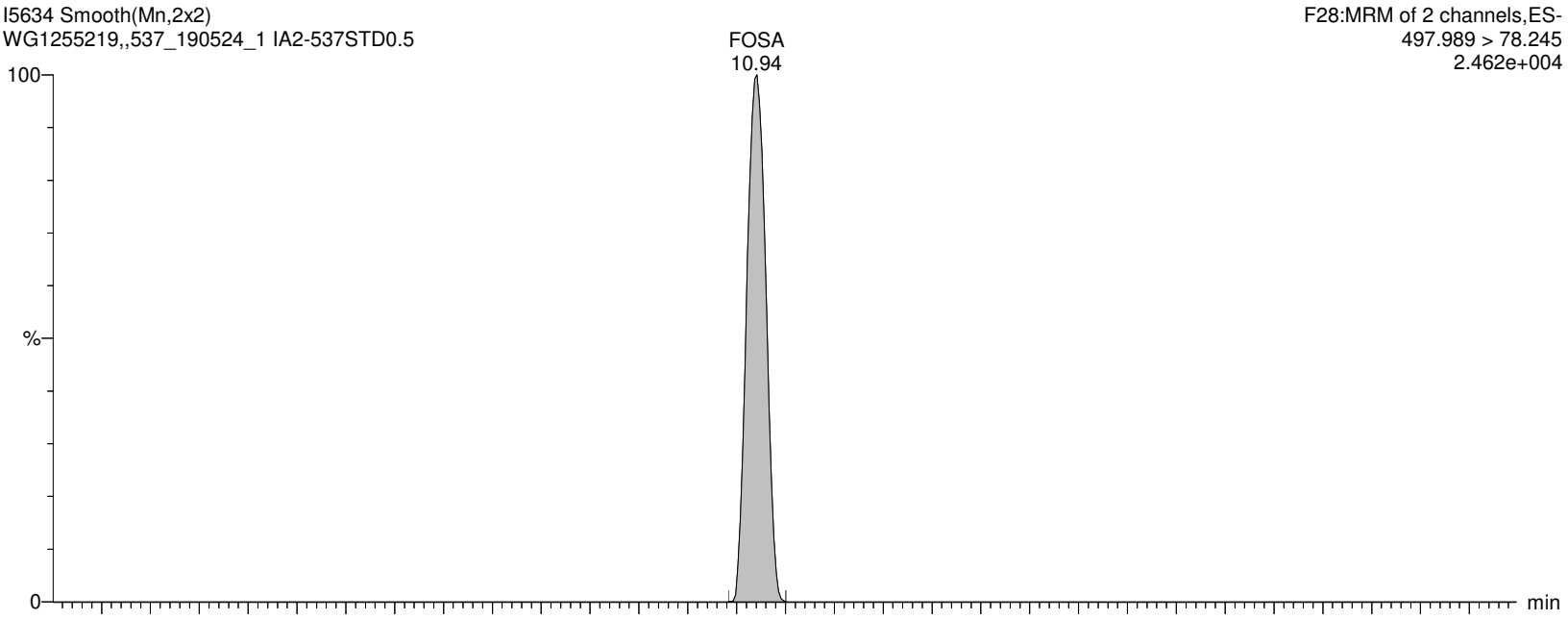


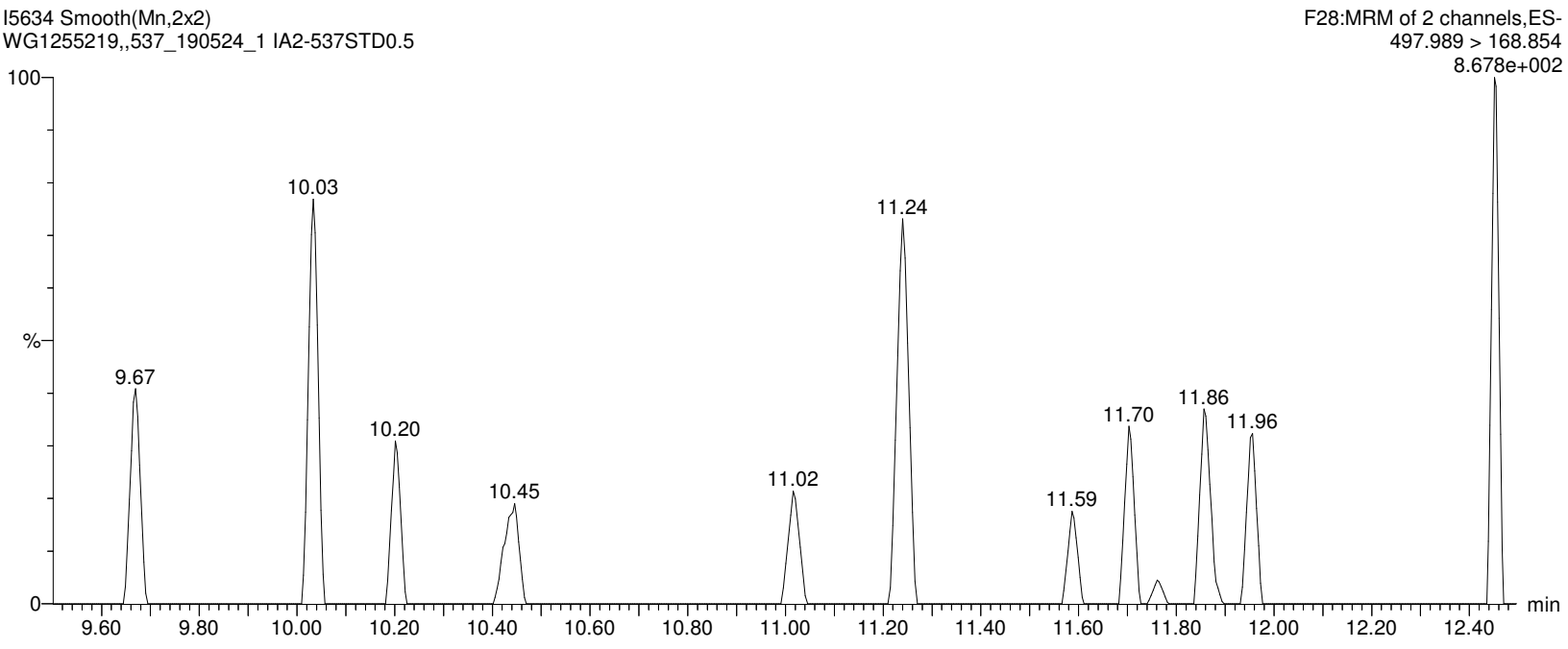
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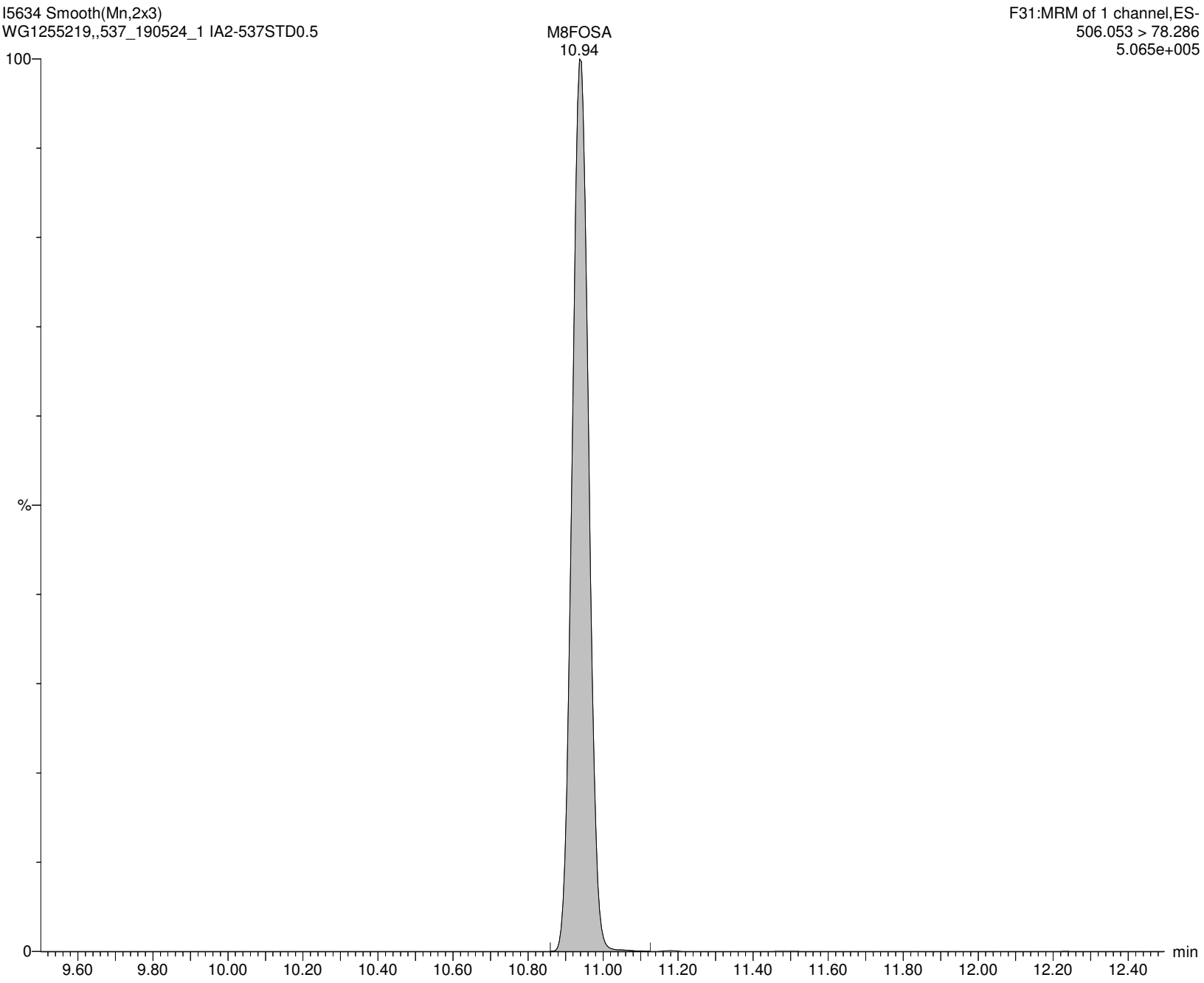


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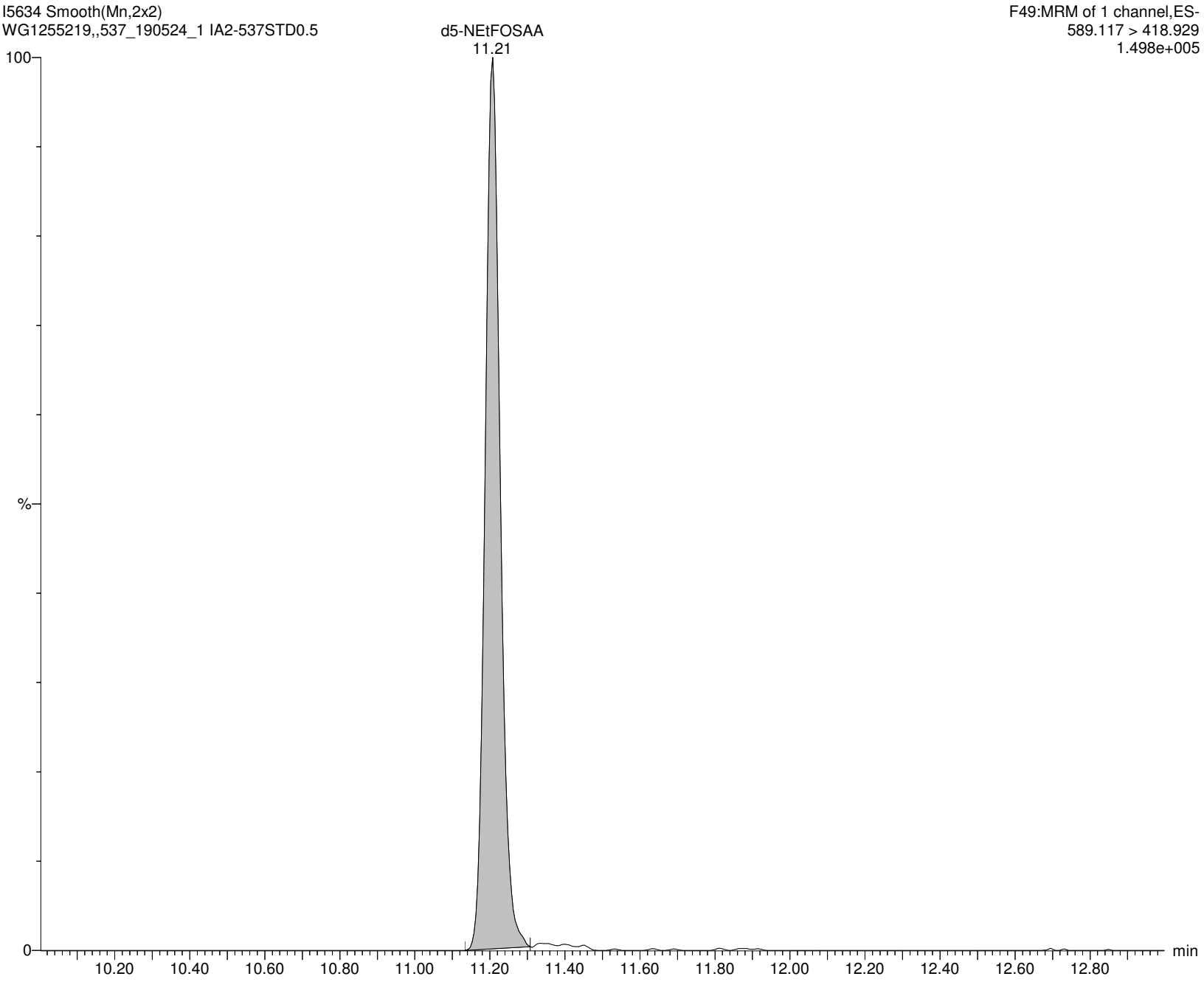


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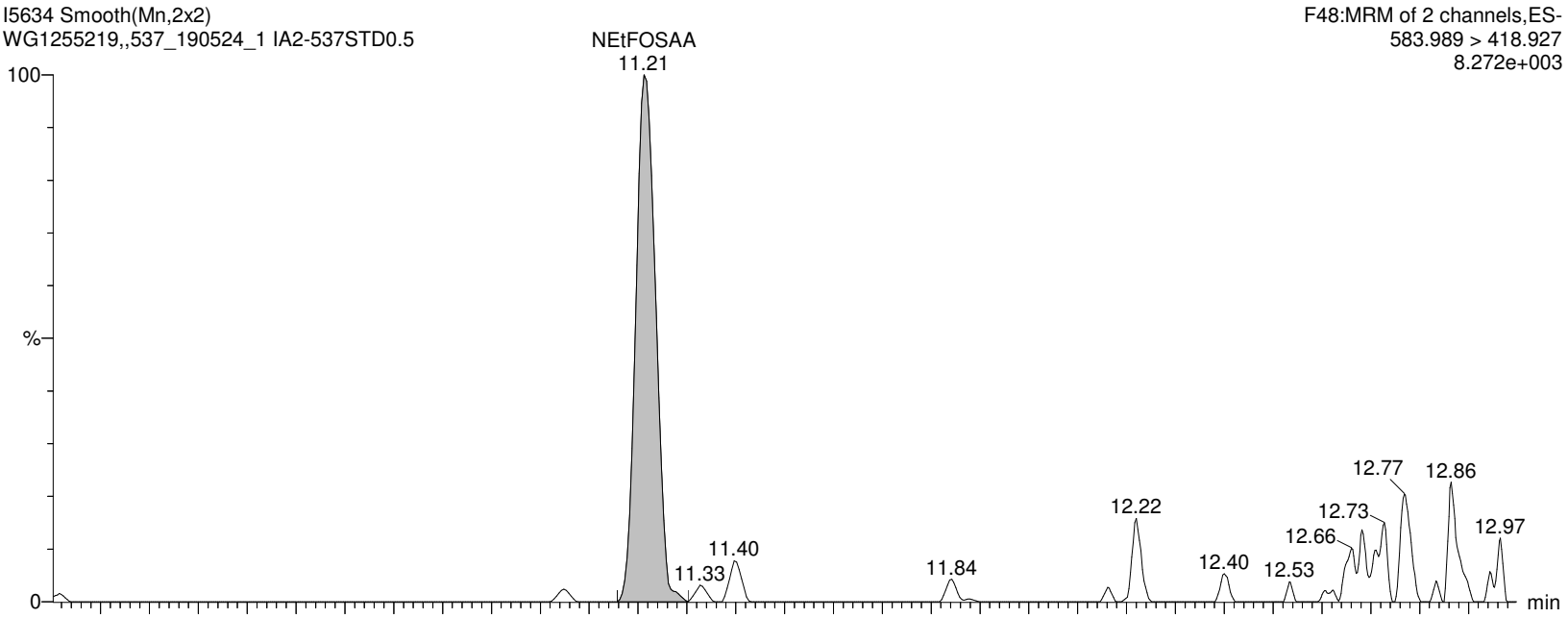


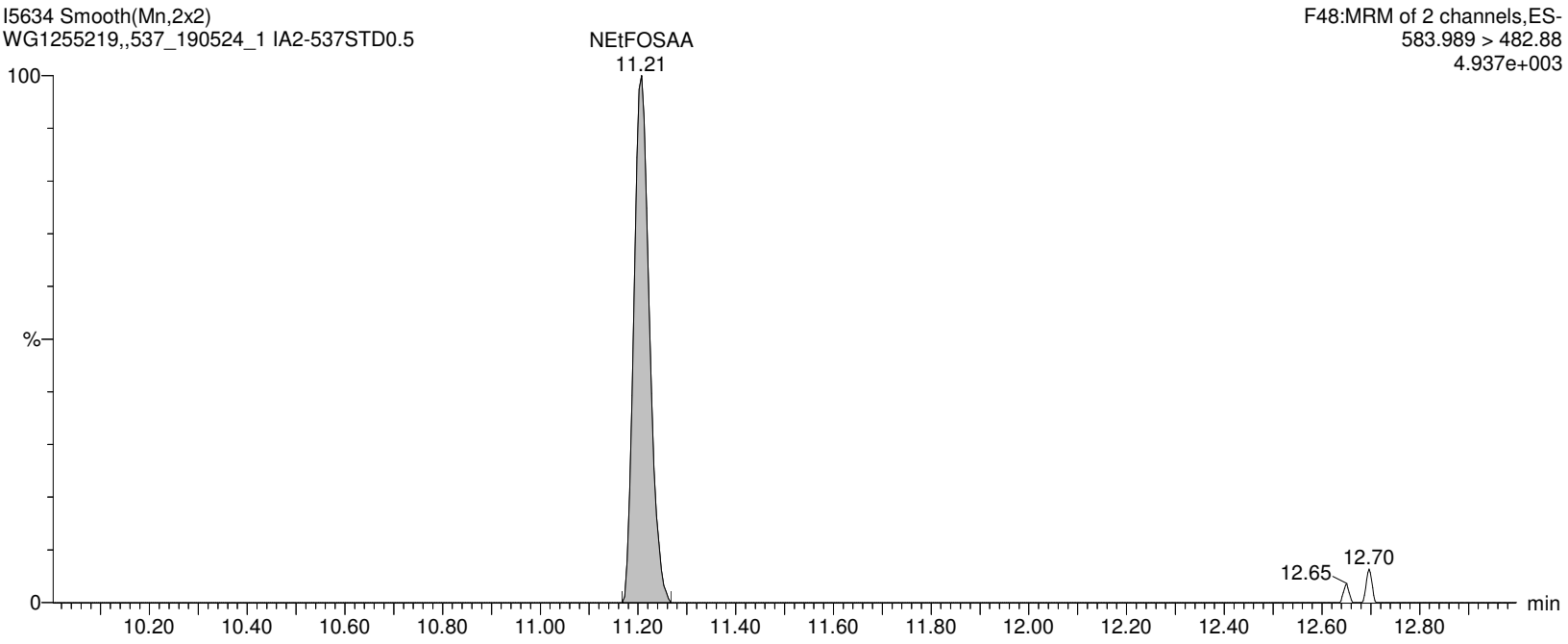
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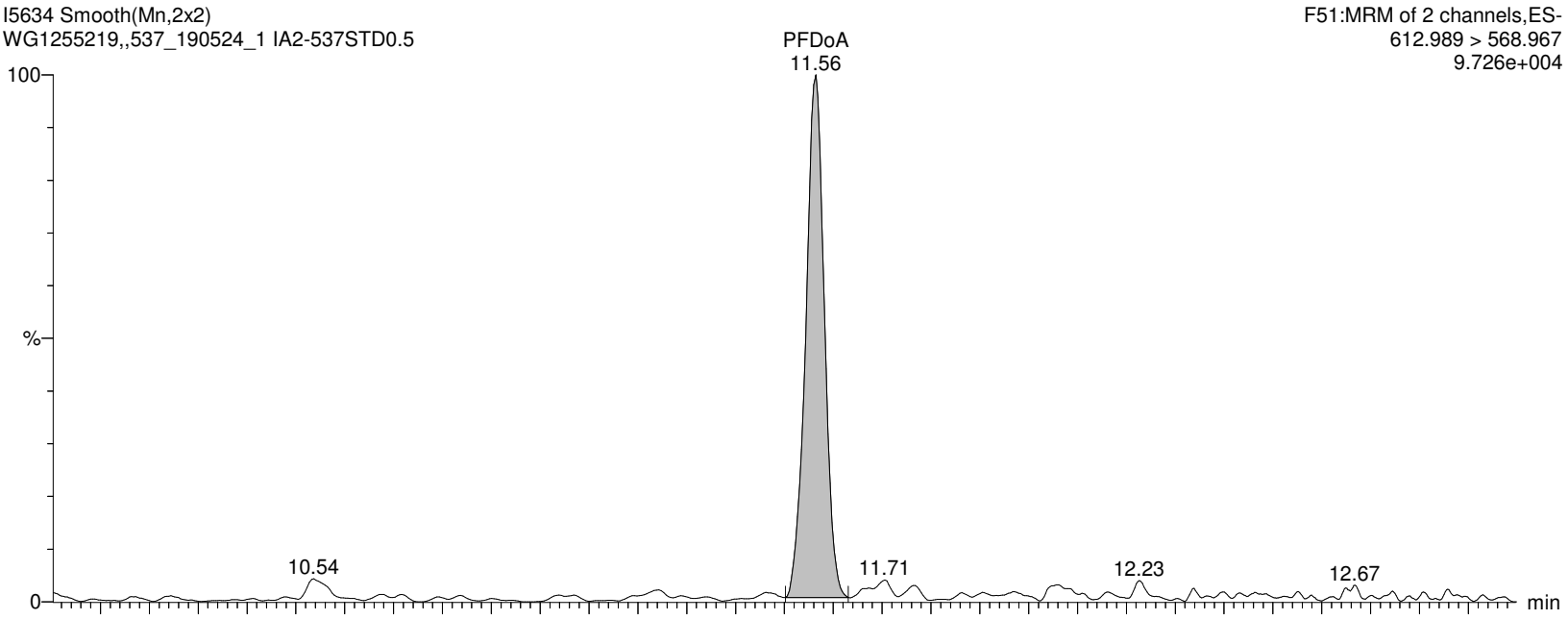


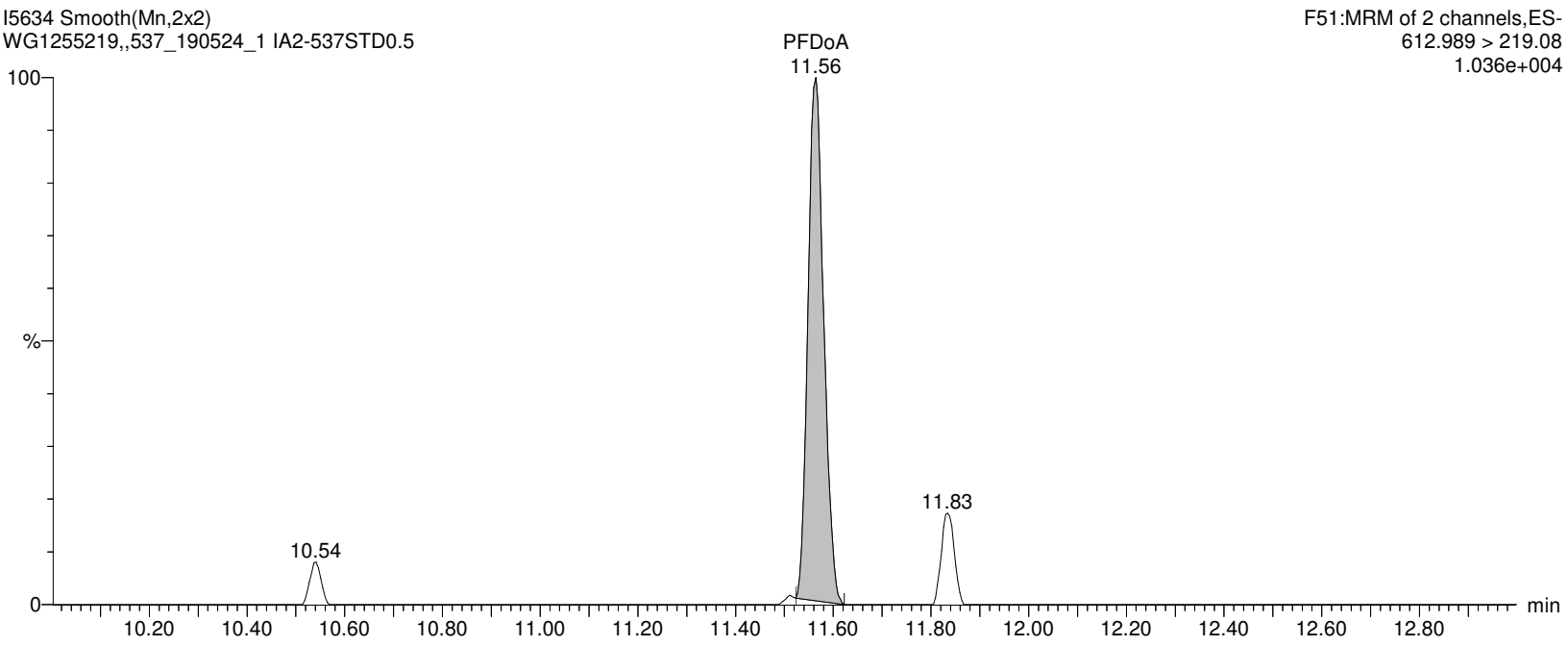
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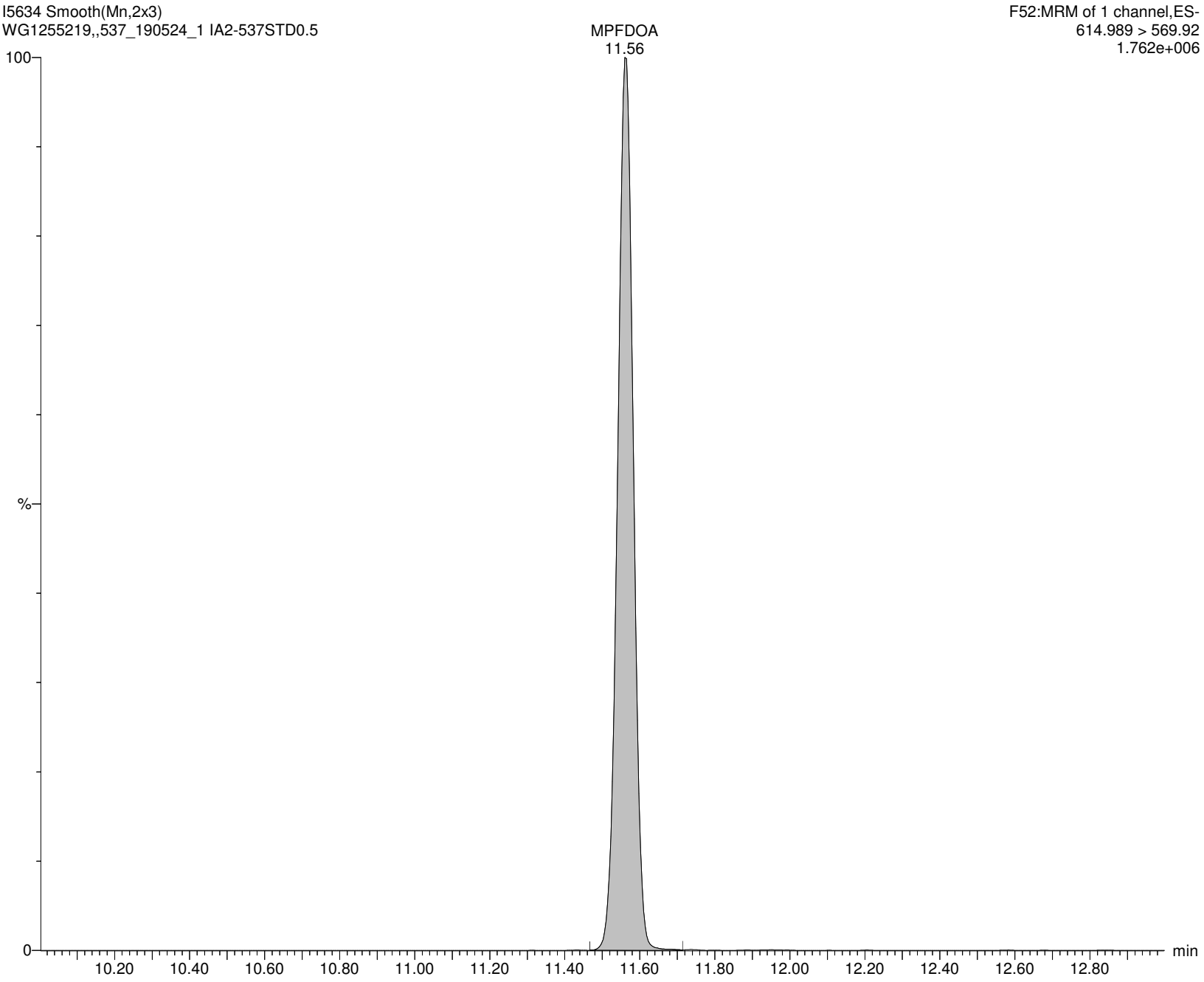


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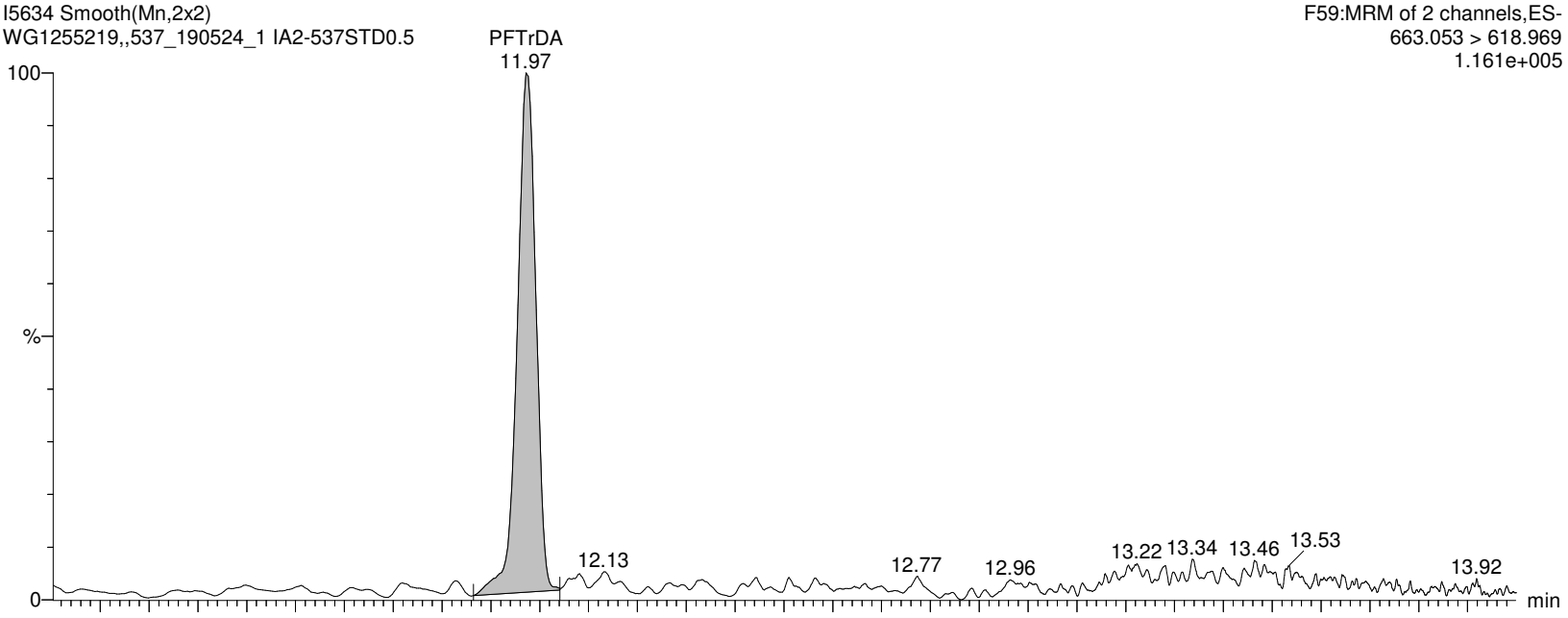


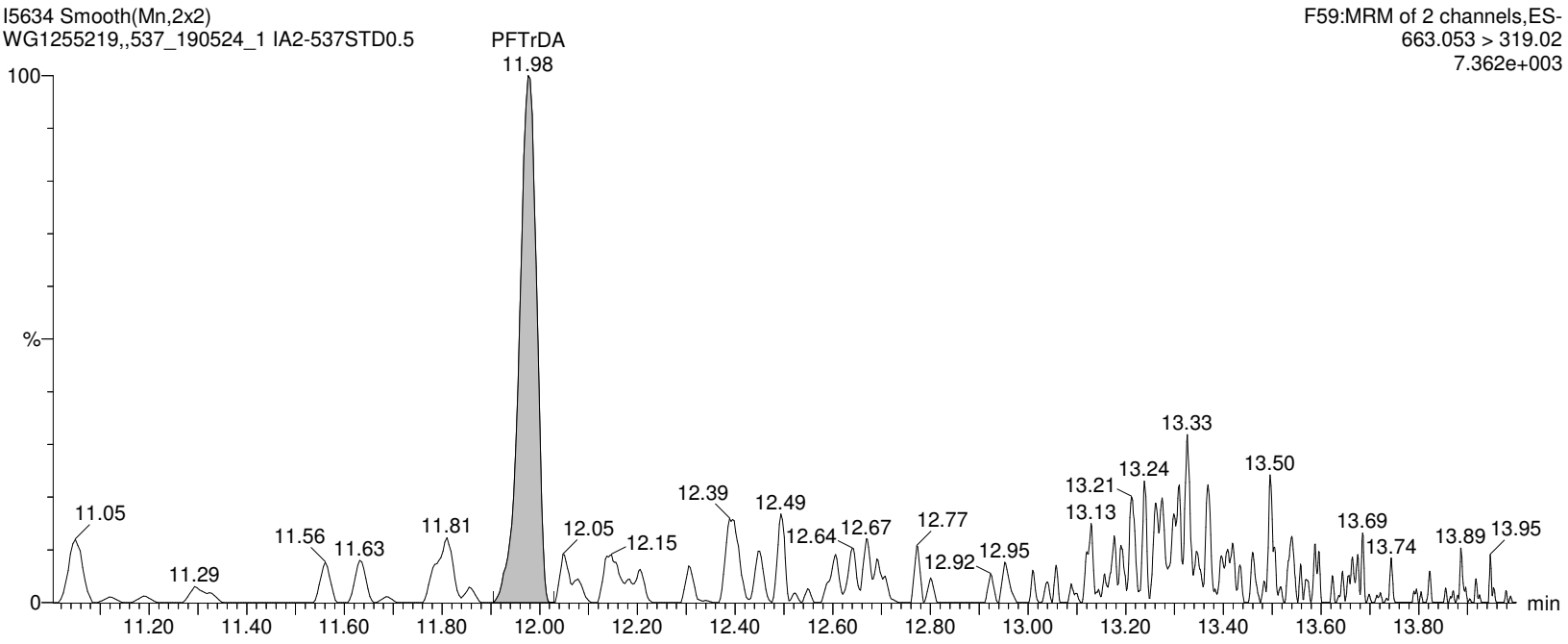
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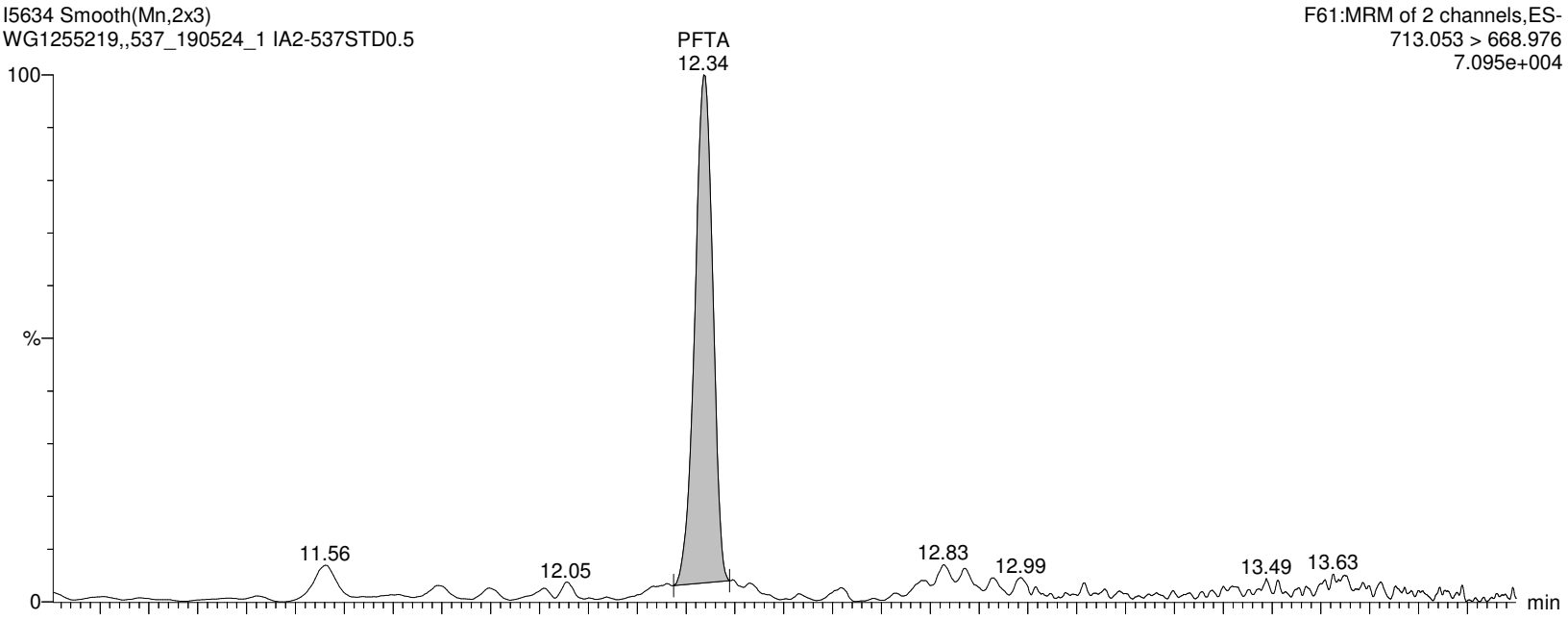


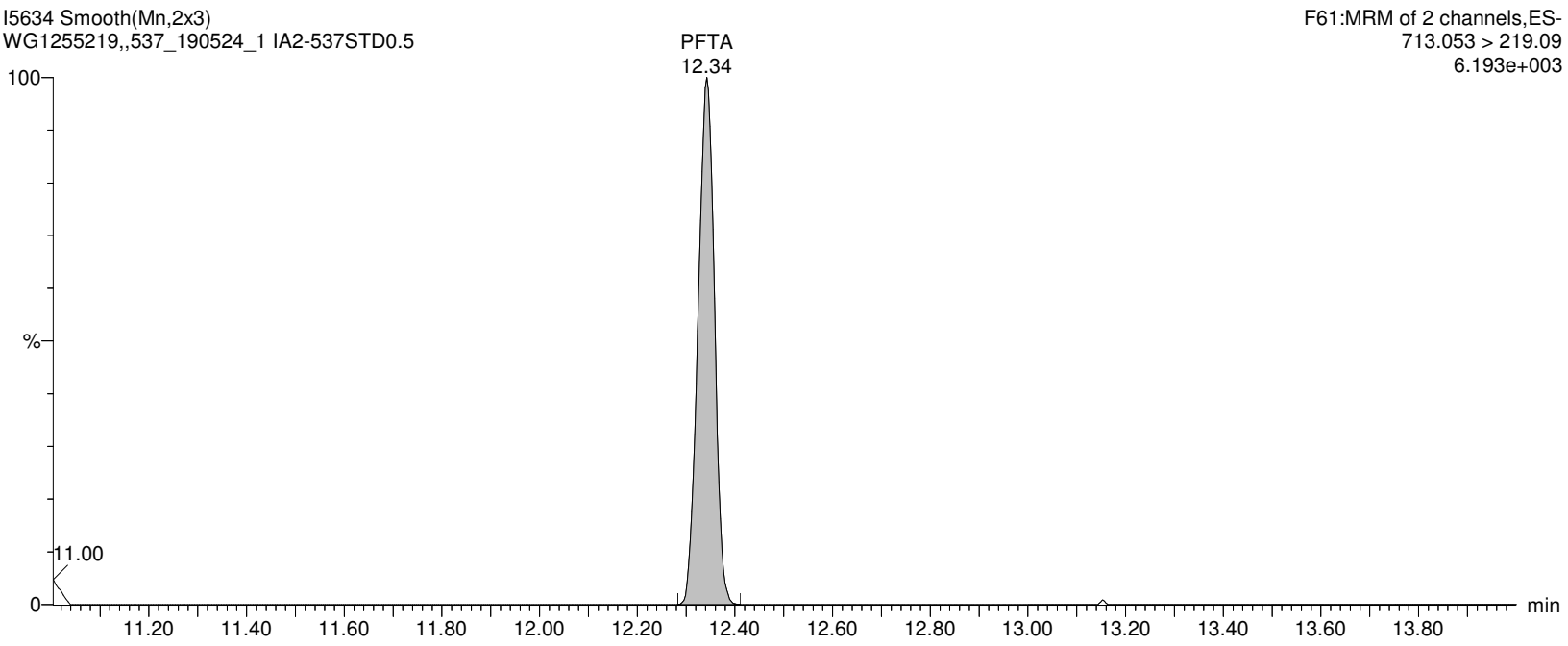
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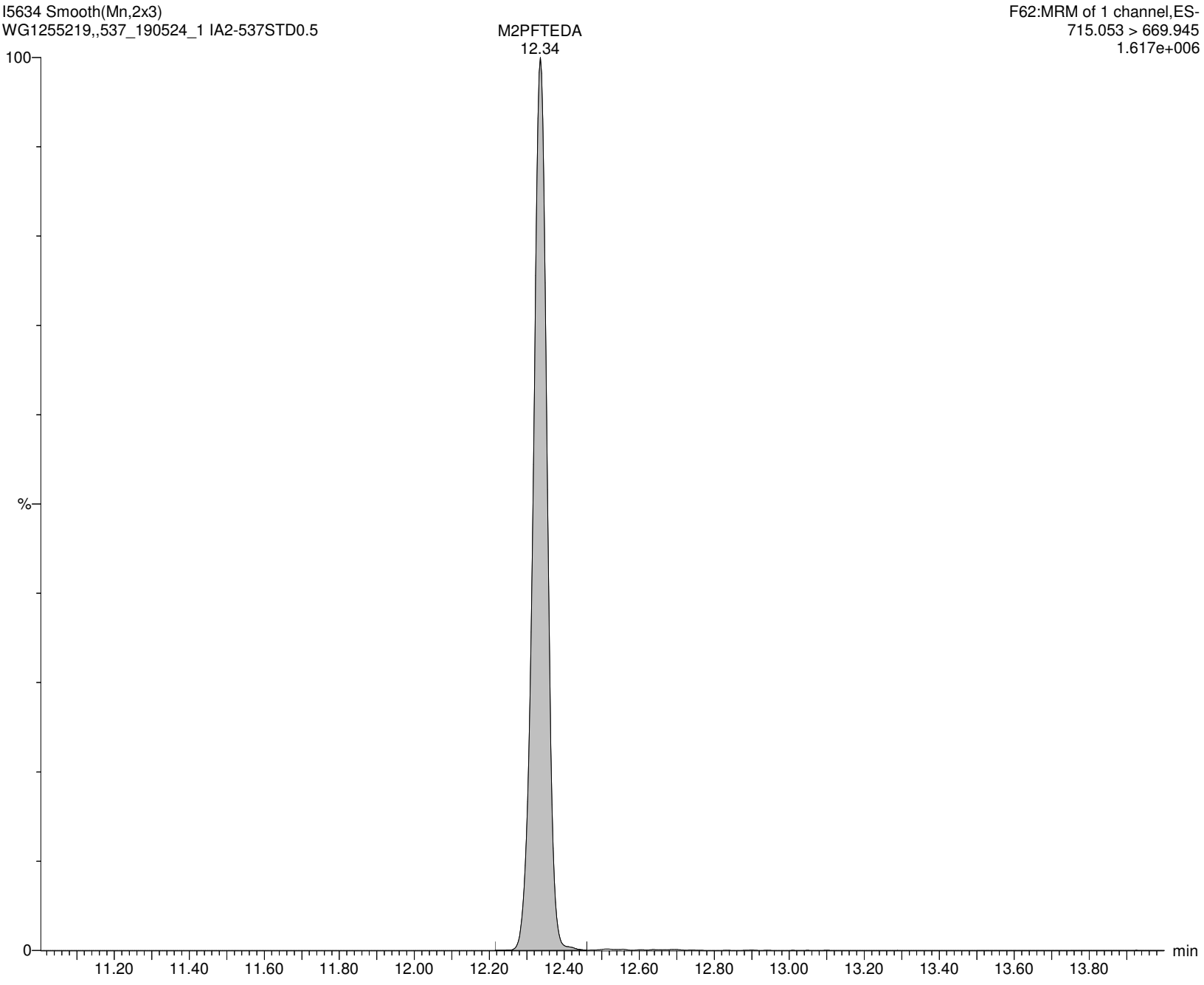


all concentration units in (ng/mL)

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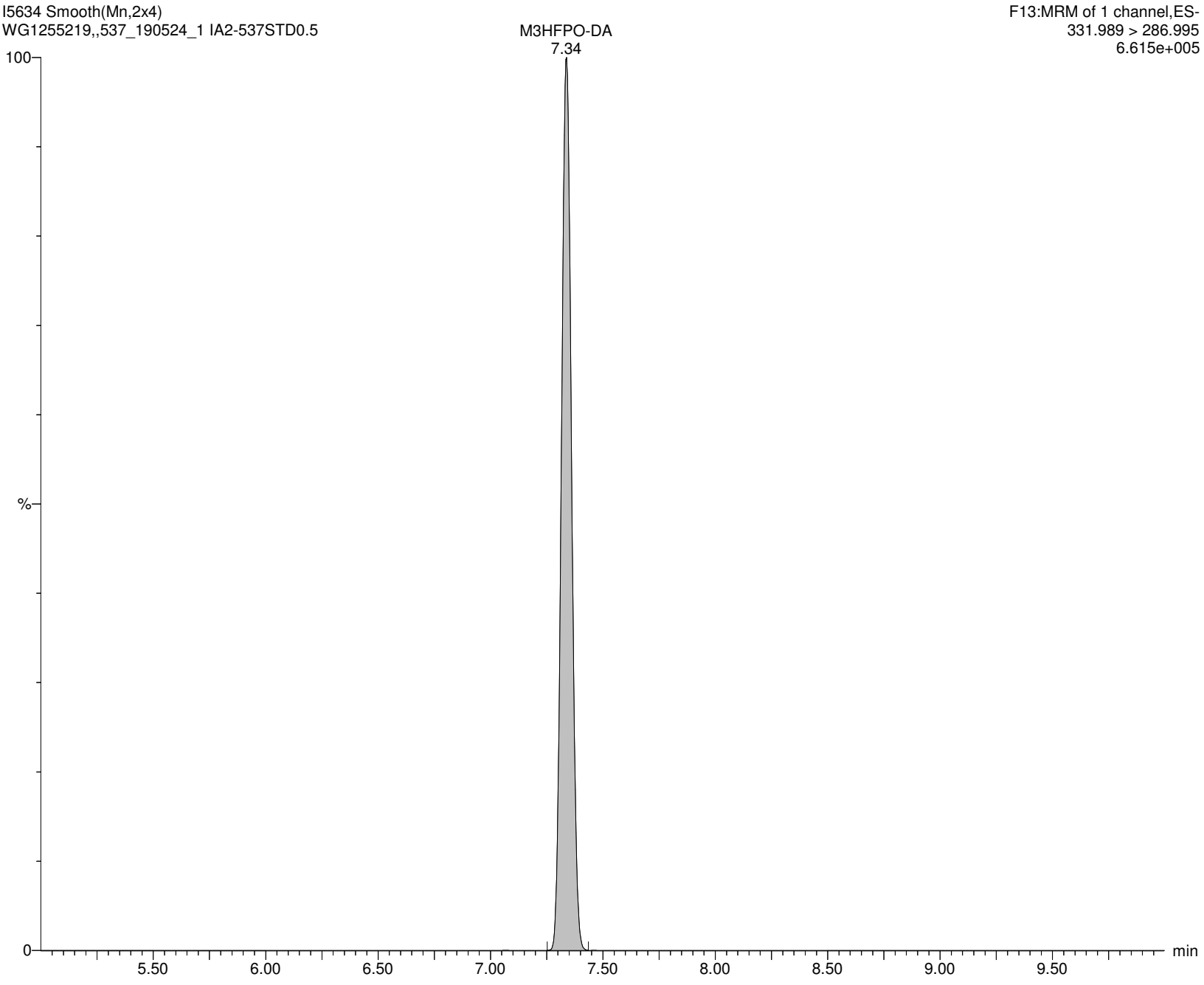


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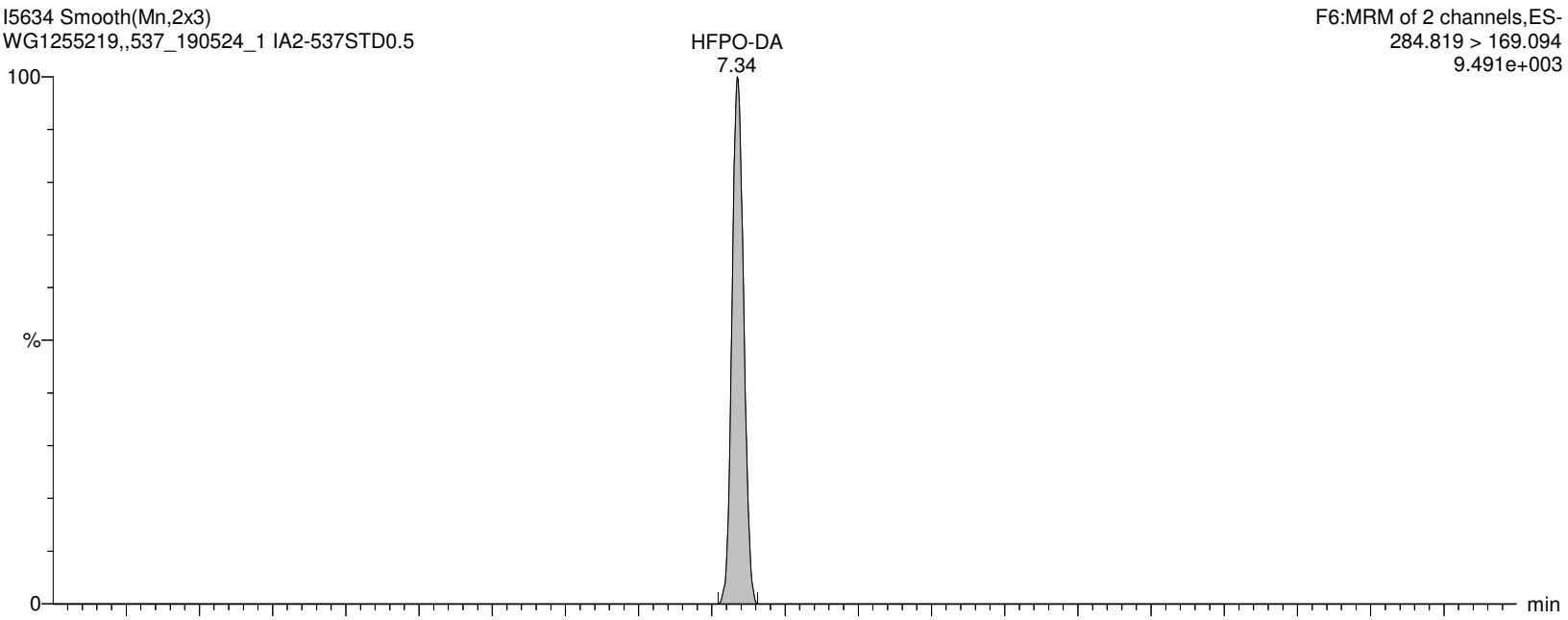


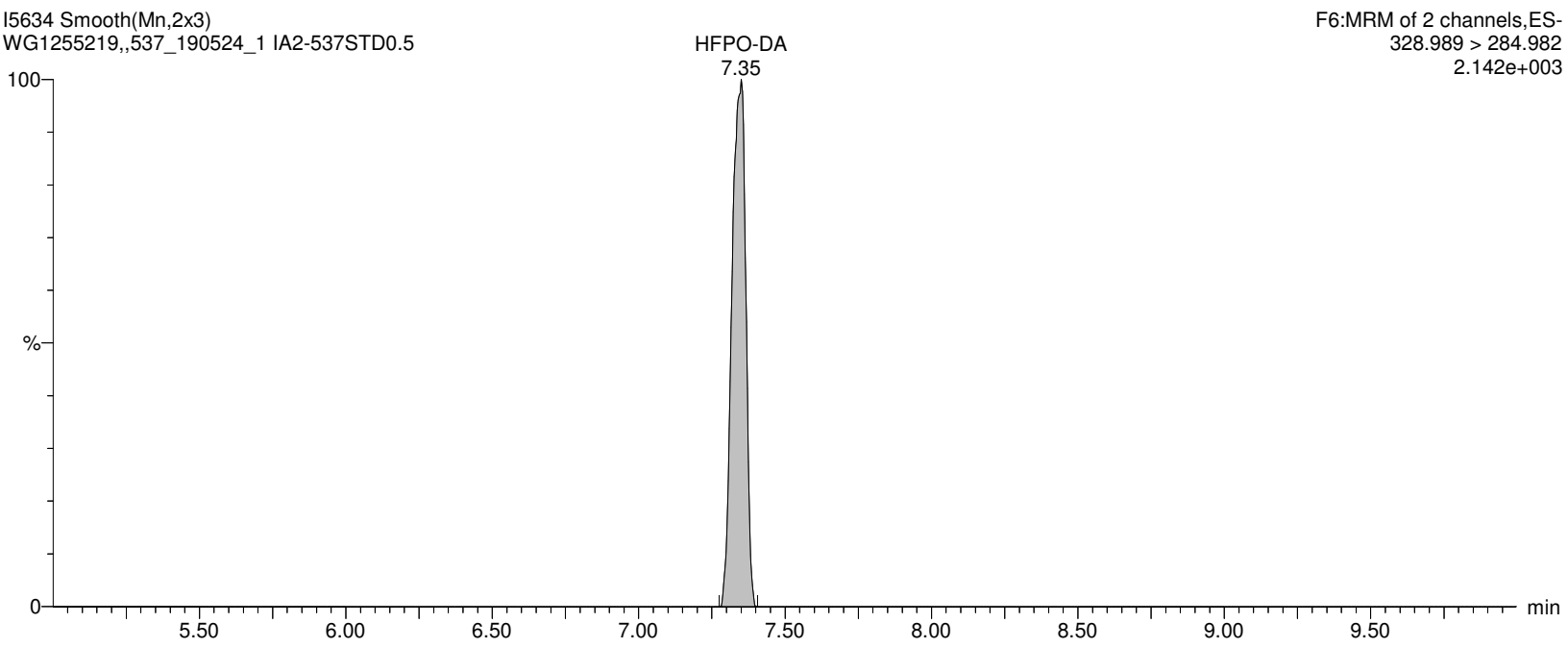
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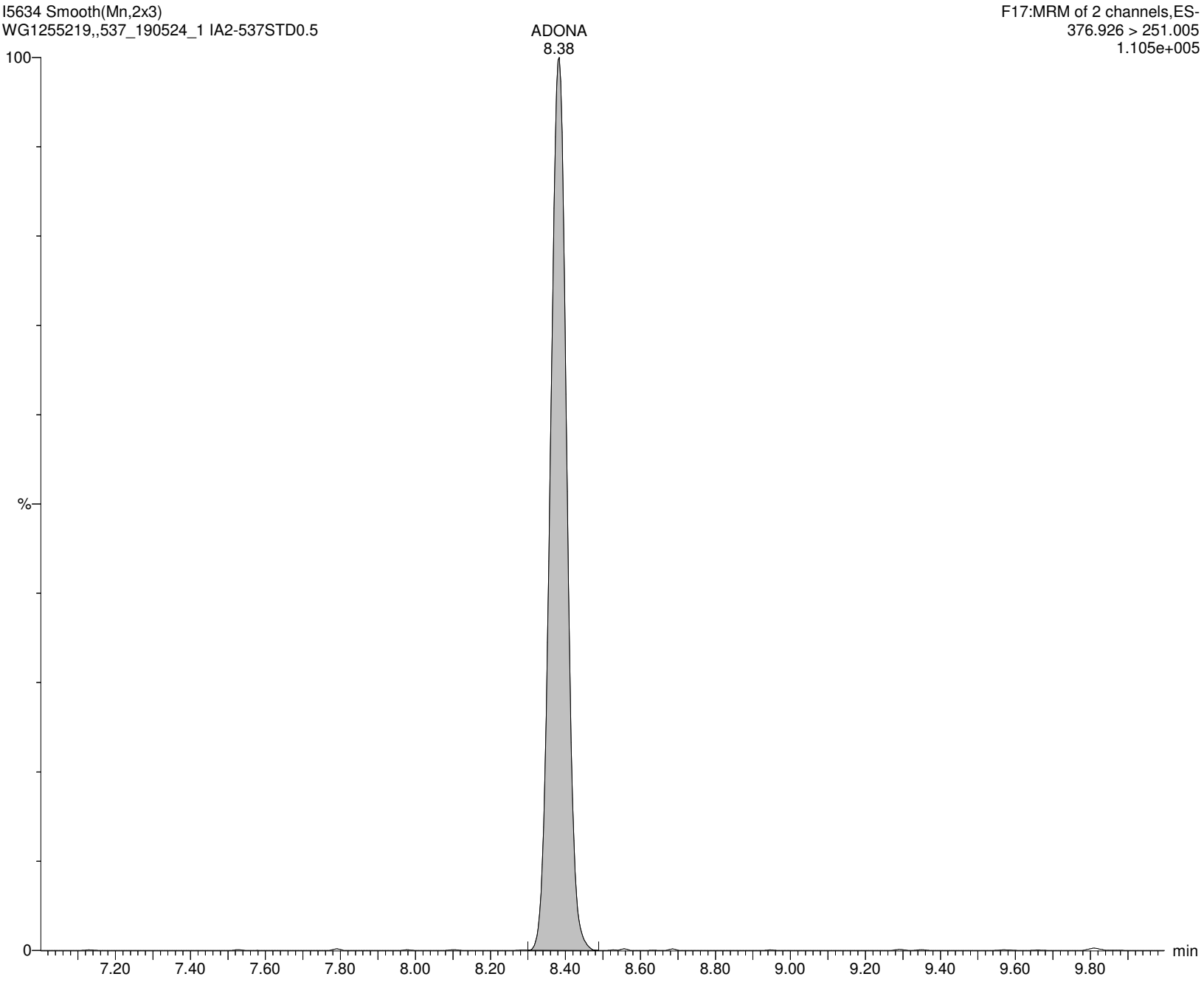


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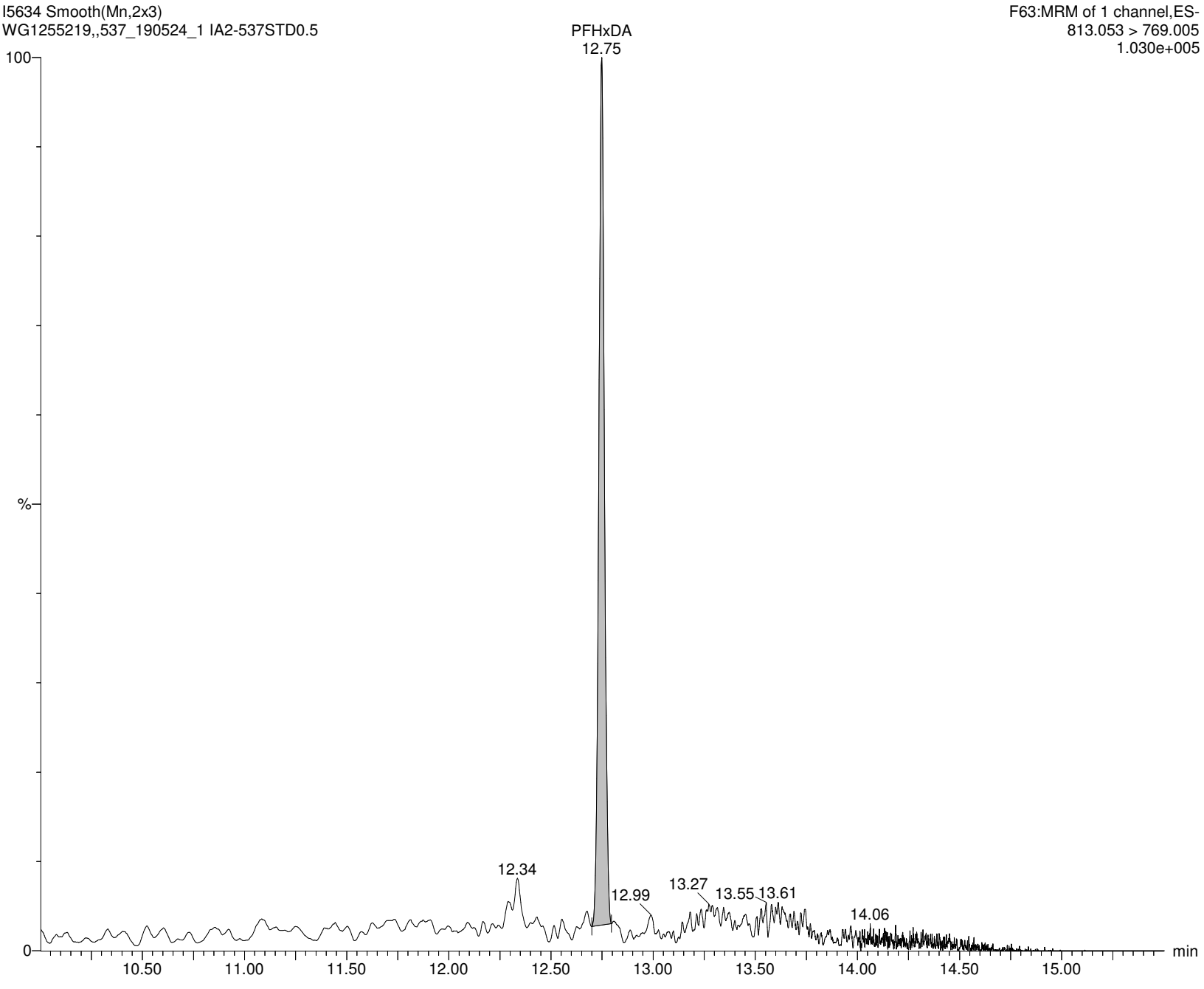


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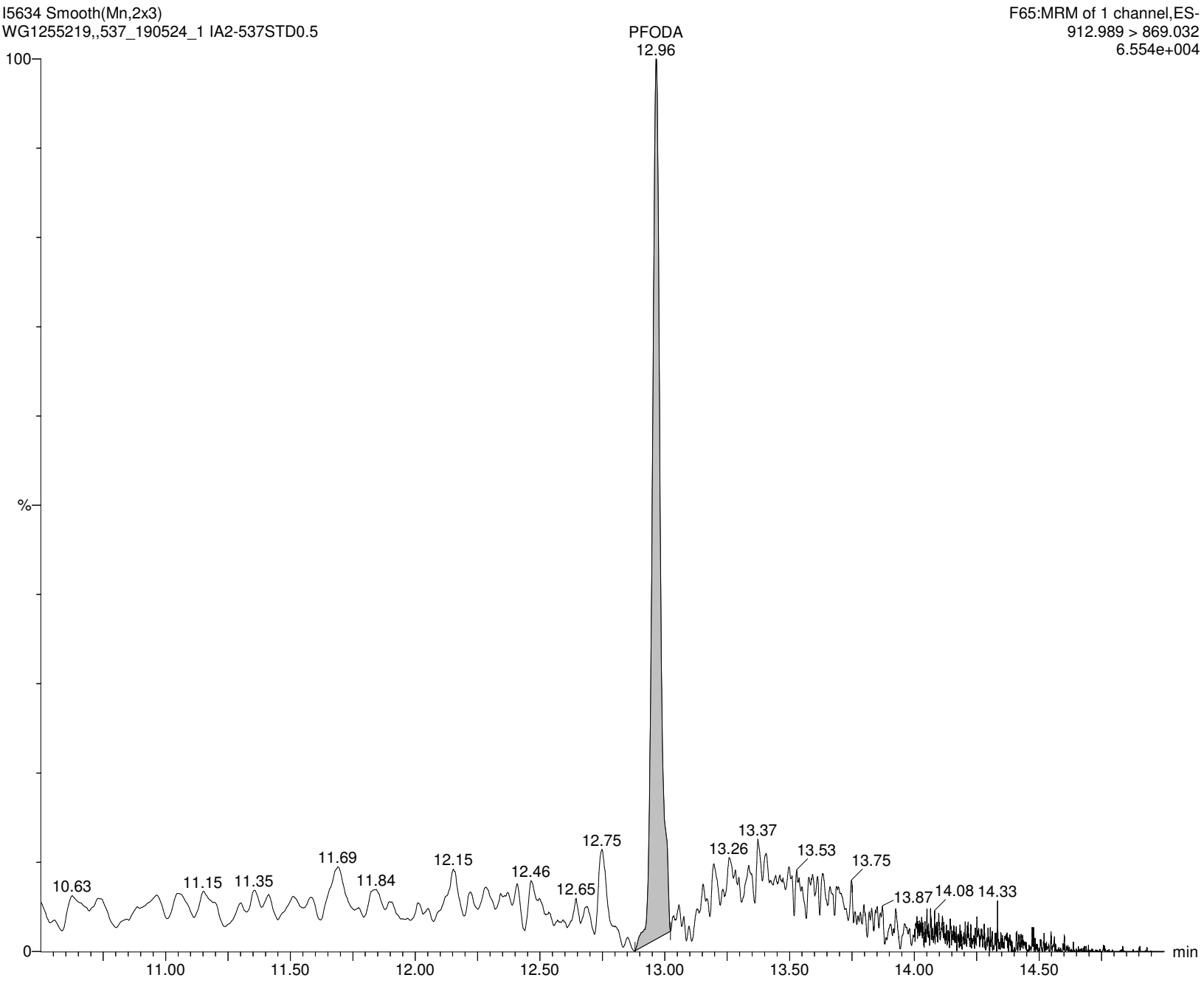


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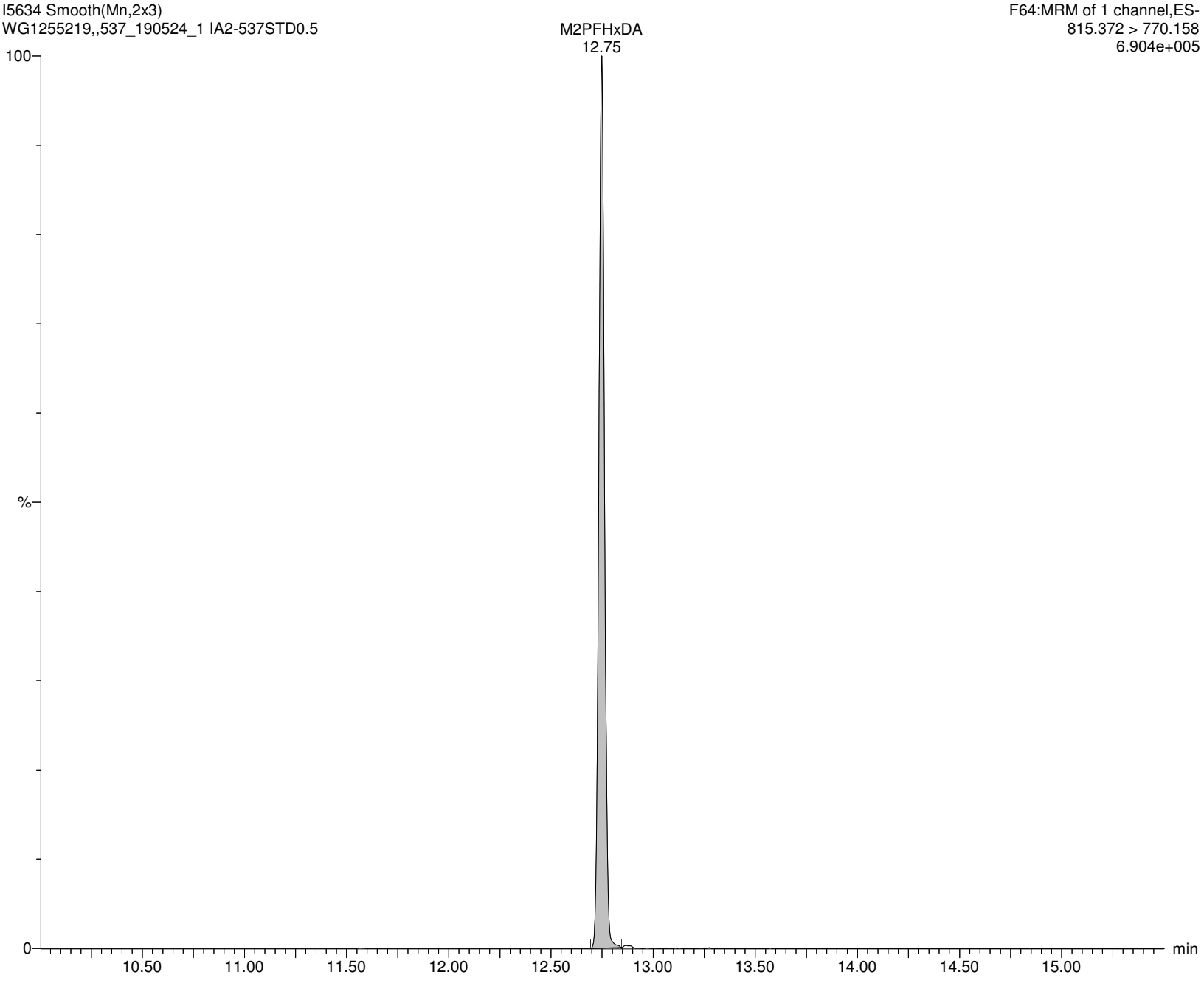


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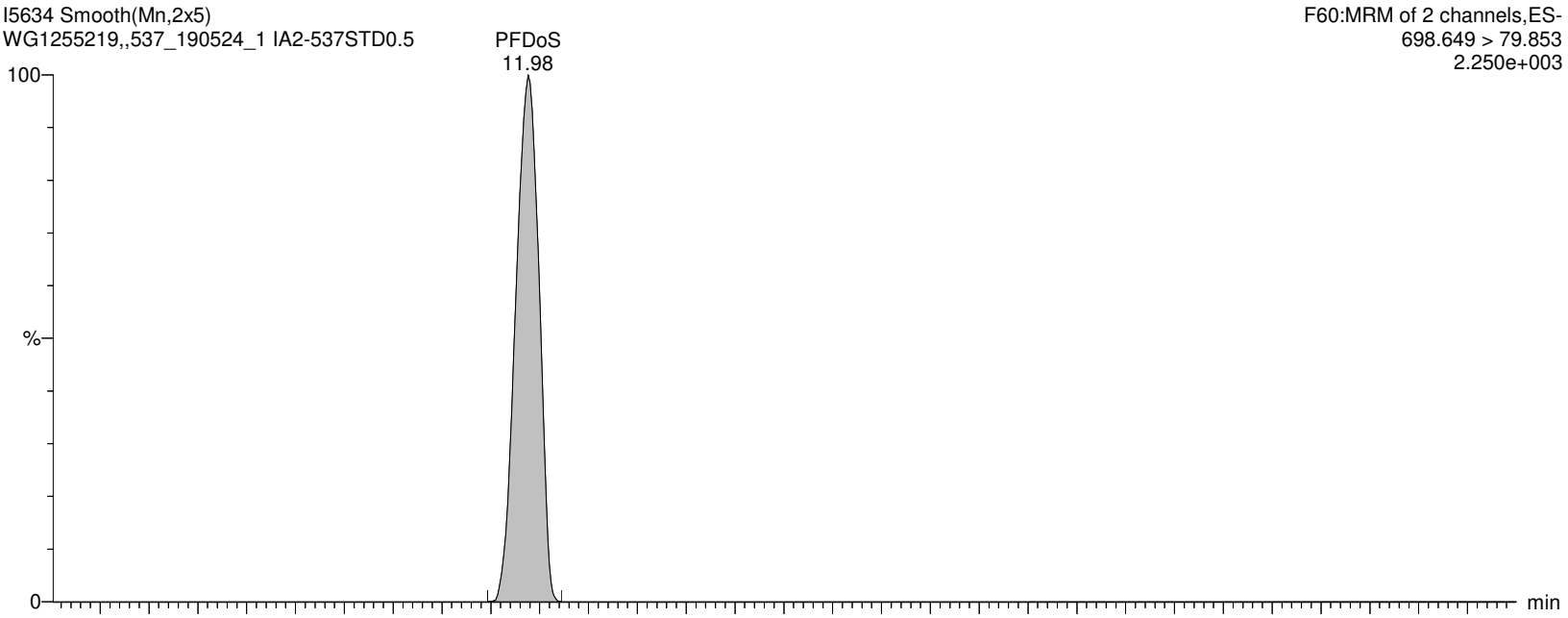


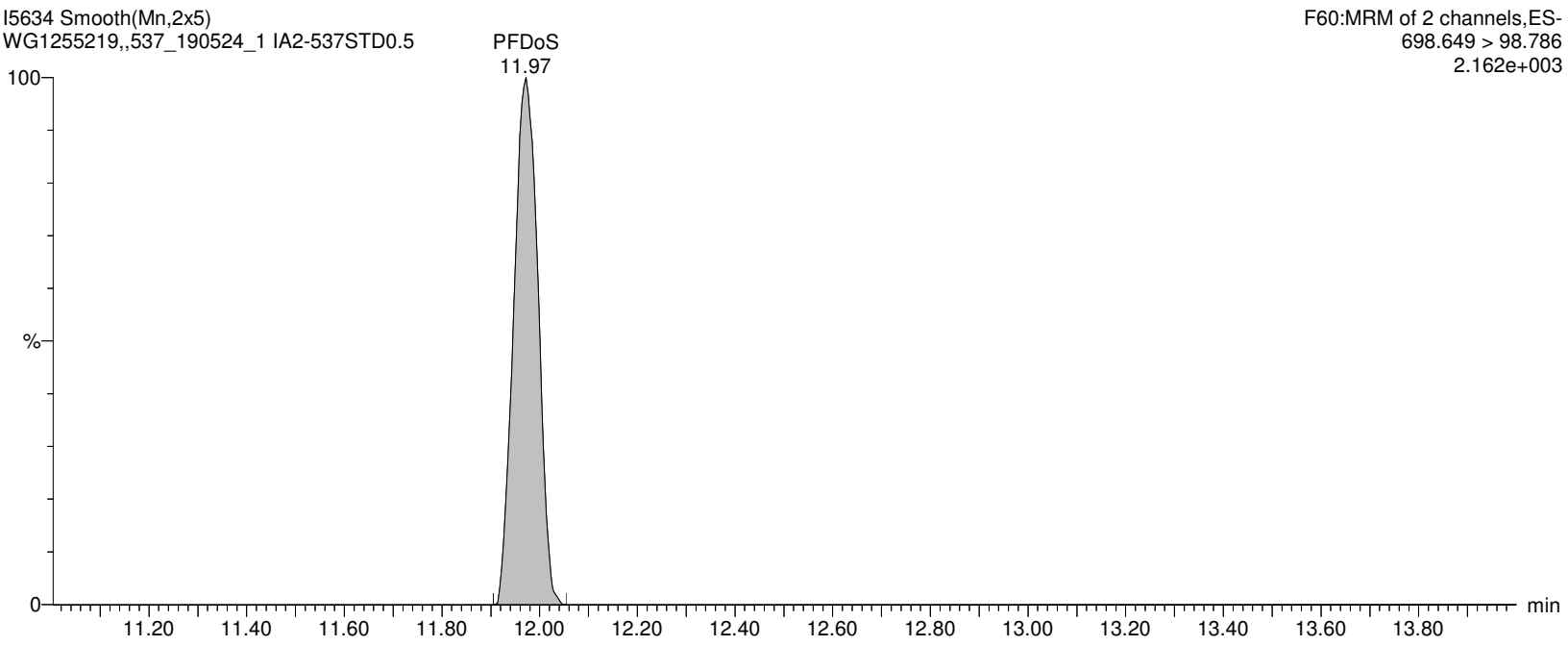
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:30 Eastern Daylight Time

Name: I5634
ID: IA2-537STD0.5
Date: 01-Jul-2019
Time: 17:57:23
Description: WG1255219,,537_190524_1
User: LCMS02:JW
Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
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MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

PFDoS



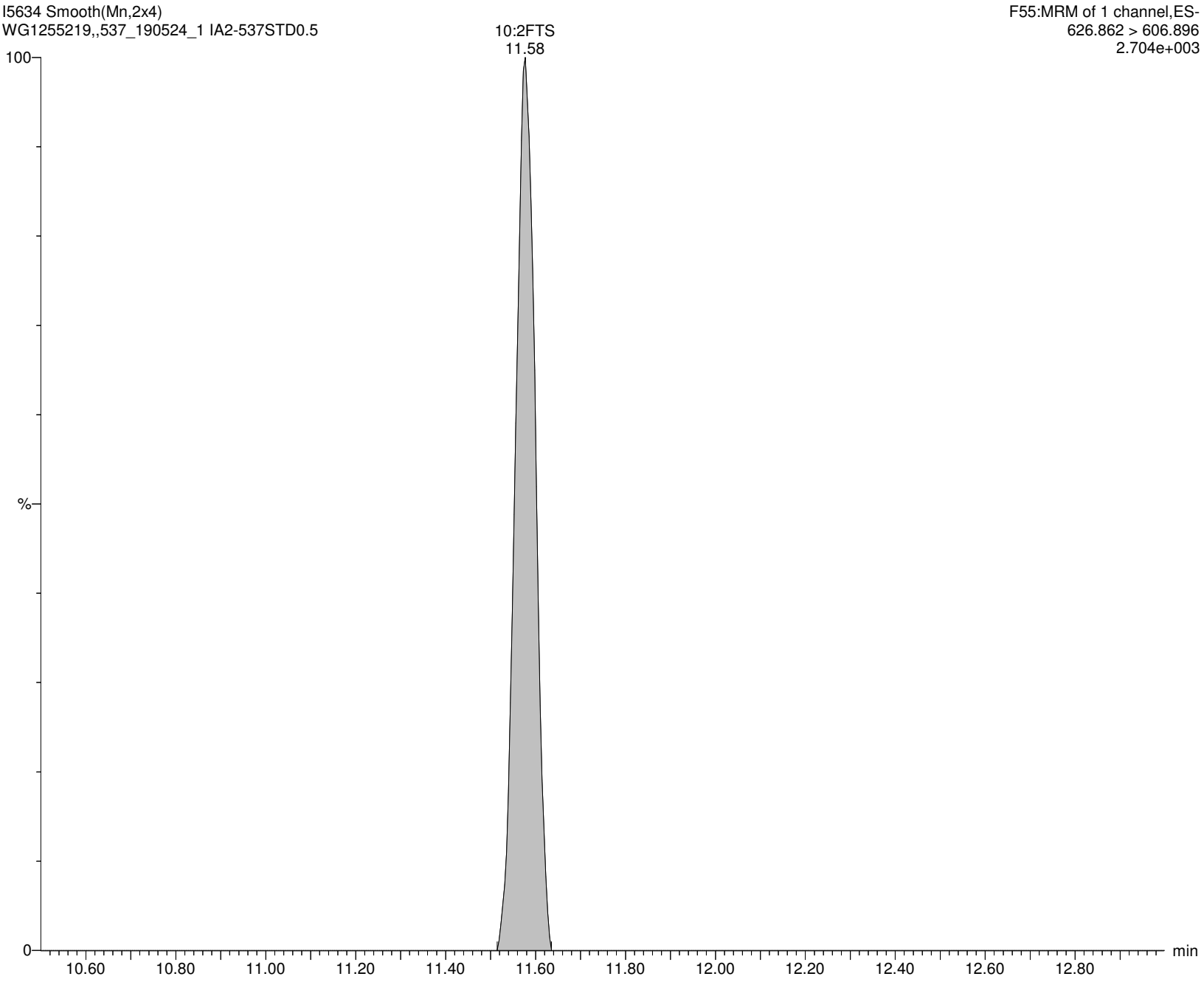


all concentration units in (ng/mL)

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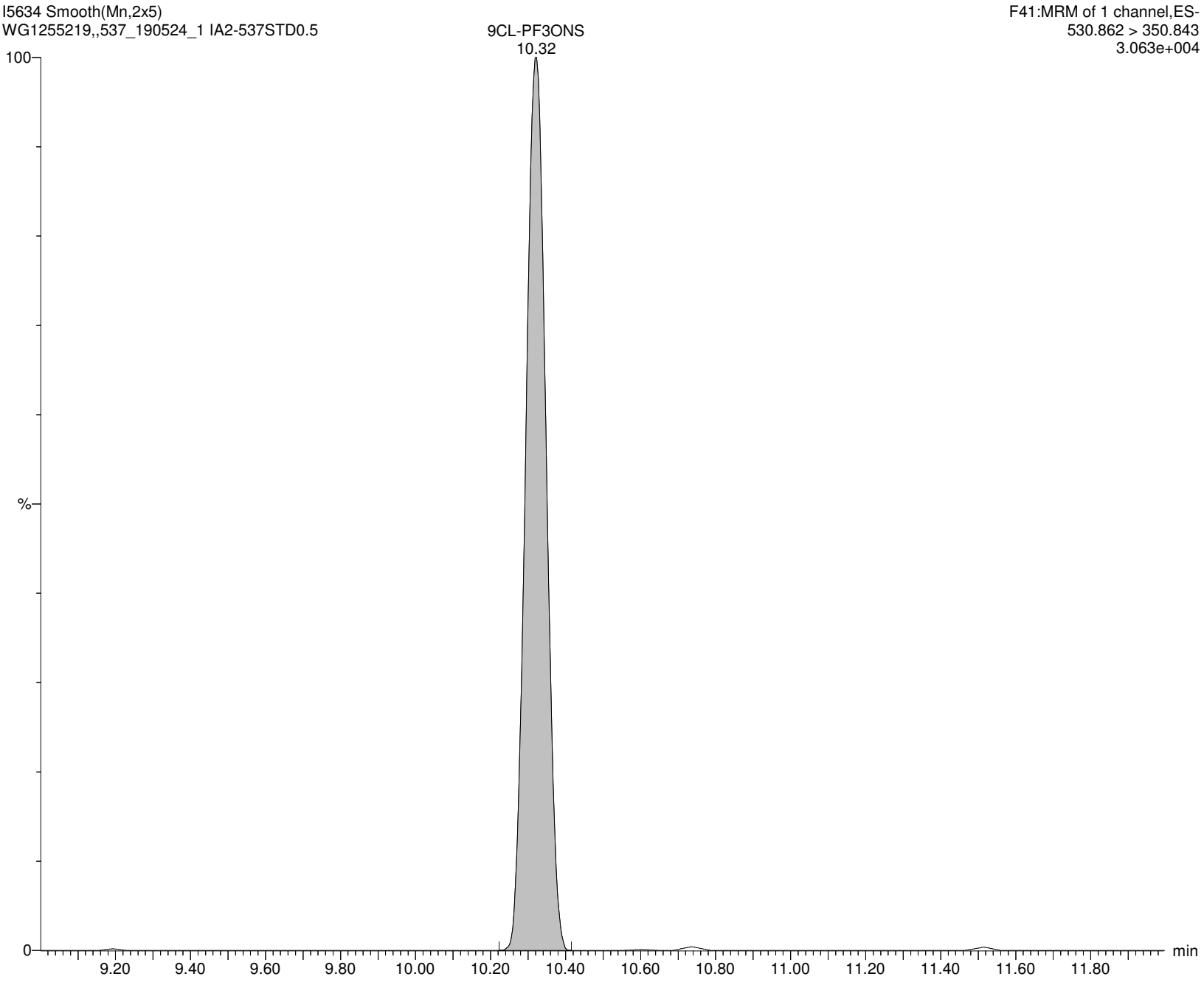


all concentration units in (ng/mL)

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9CL-PF3ONS

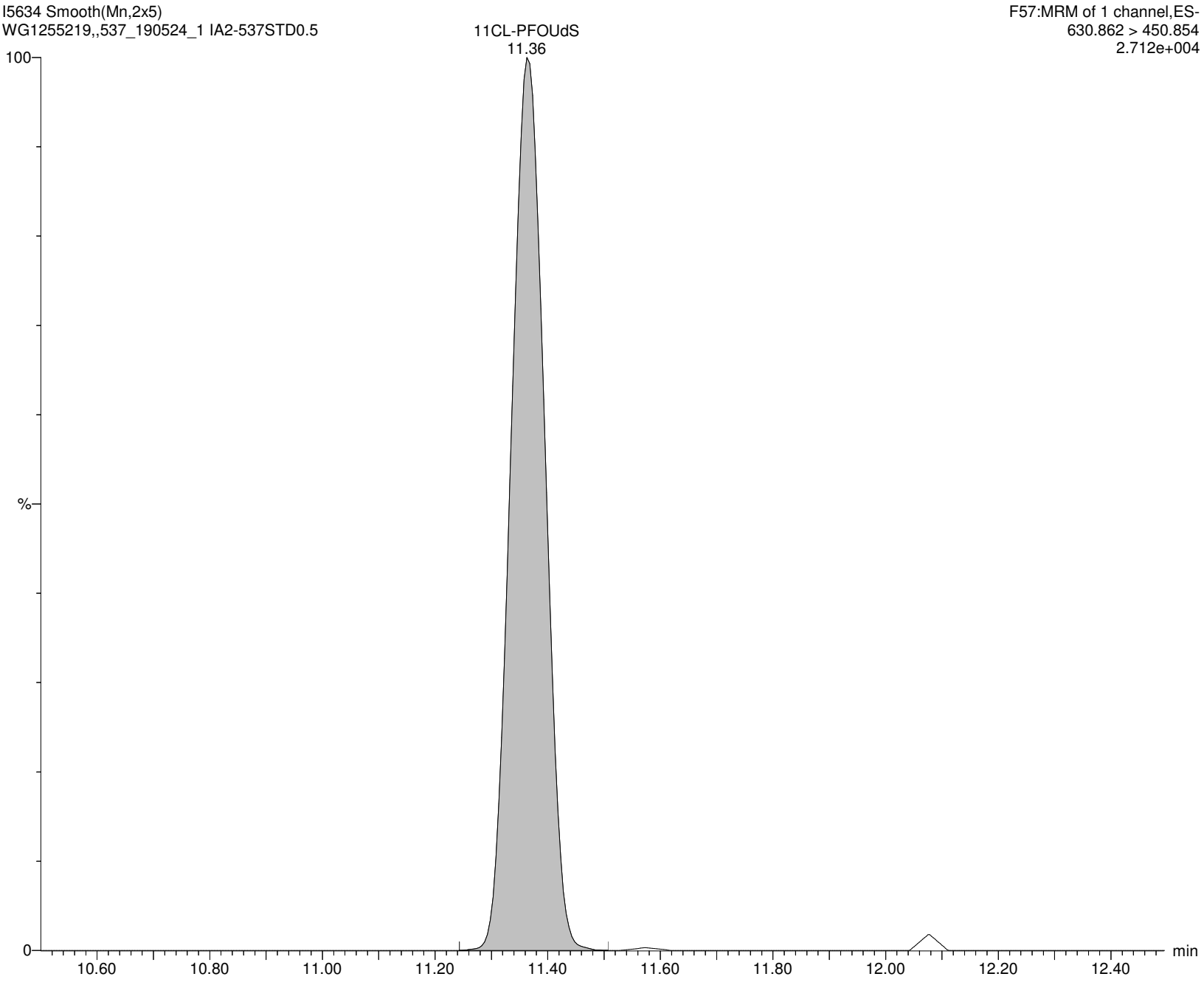


all concentration units in (ng/mL)

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11CL-PFOUdS

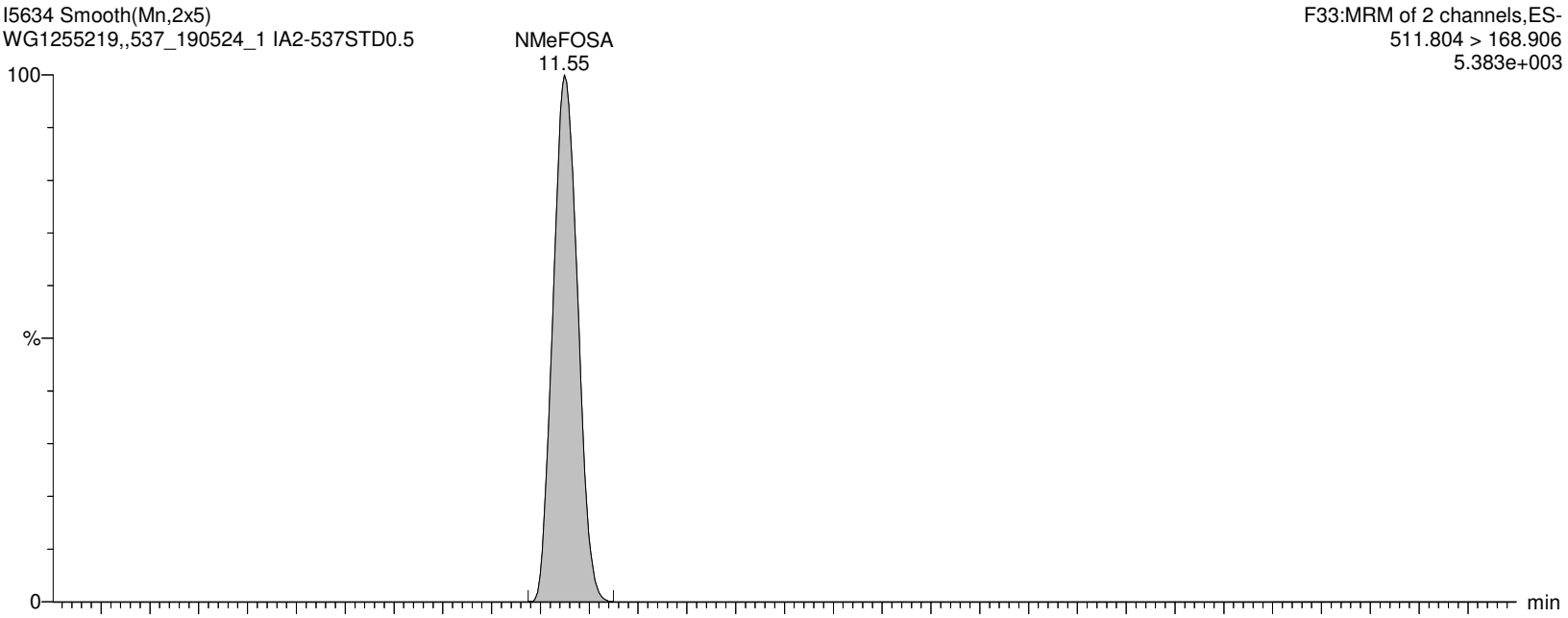


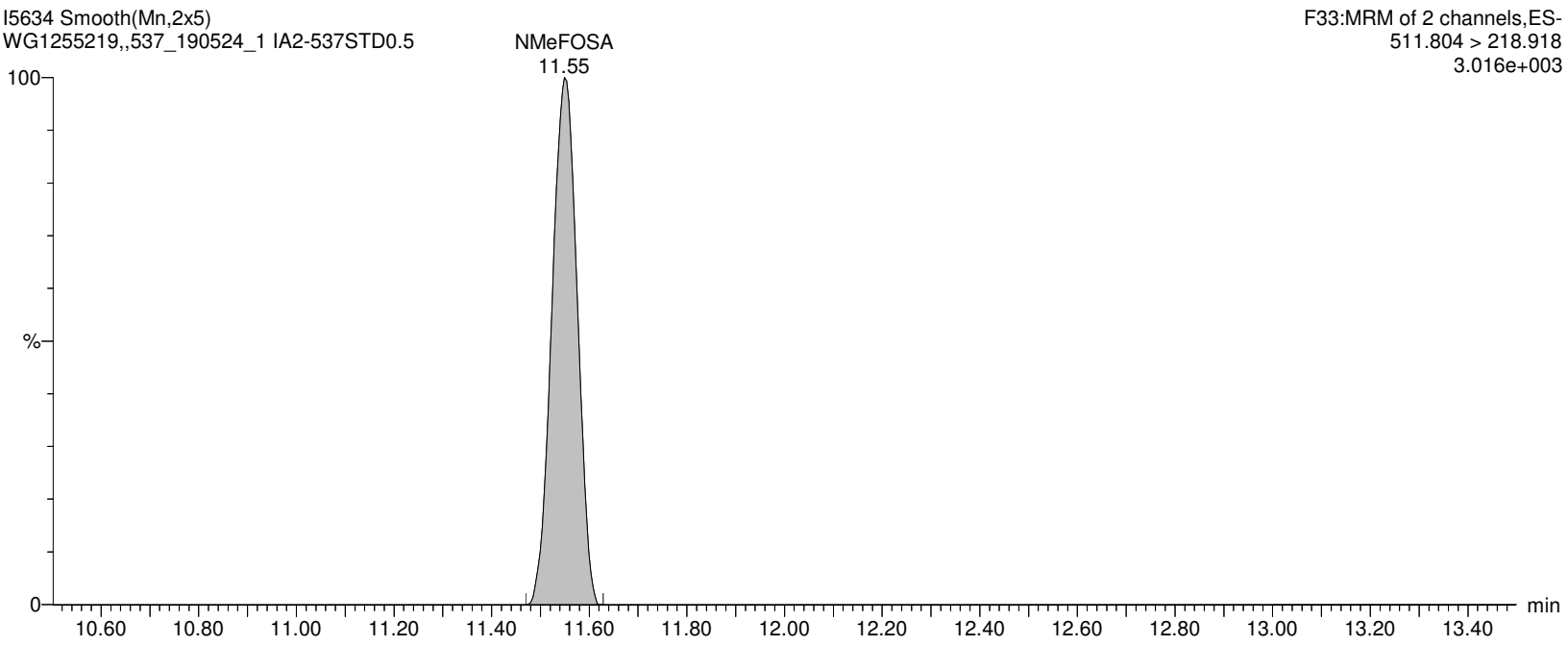
all concentration units in (ng/mL)

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NMeFOSA



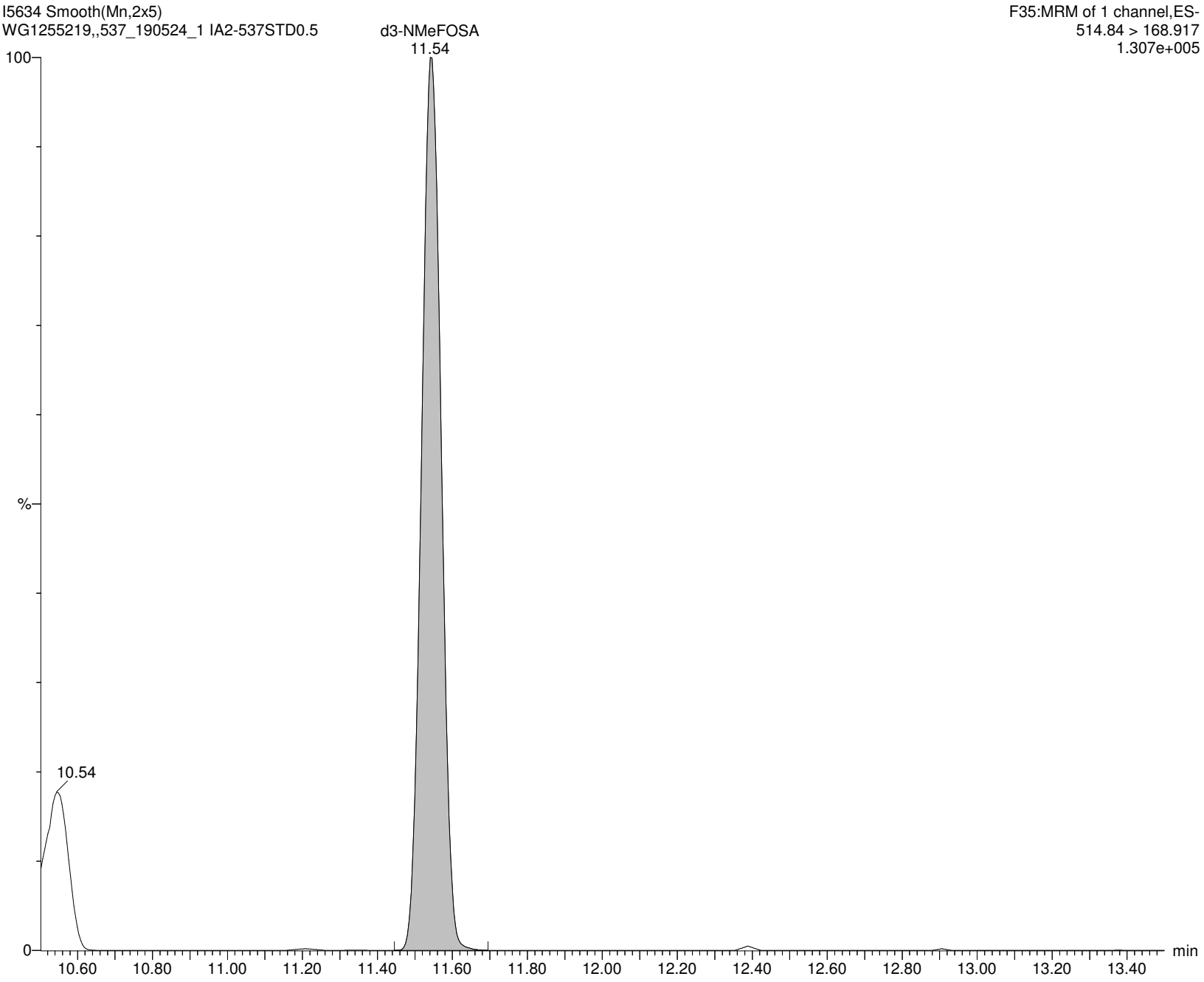


all concentration units in (ng/mL)

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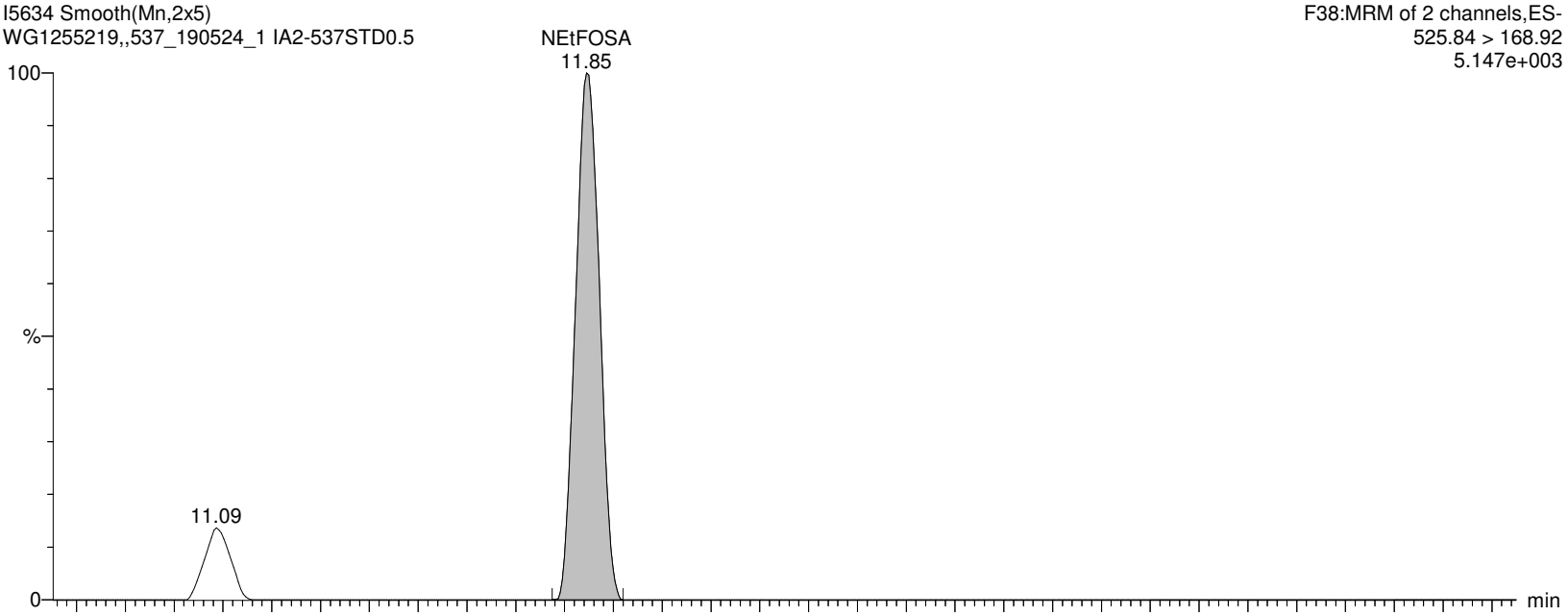


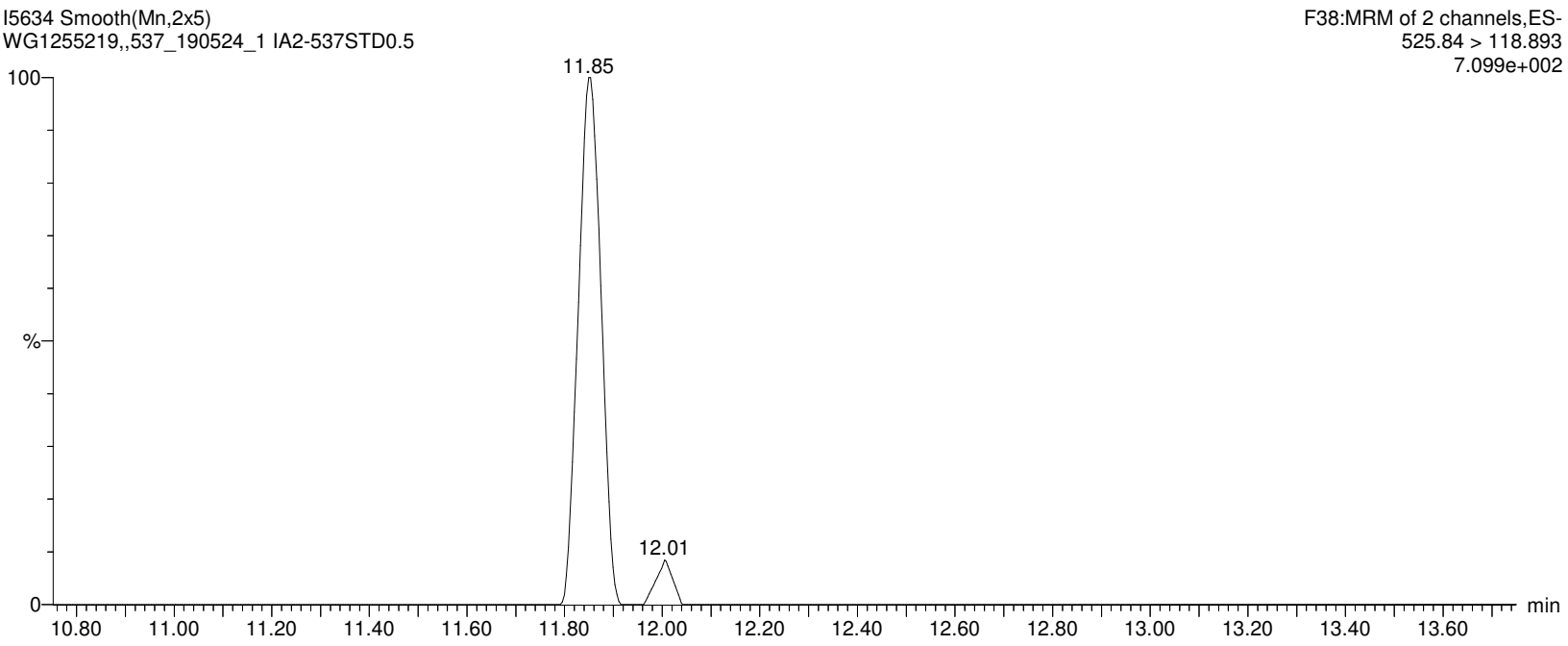
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NEtFOSA



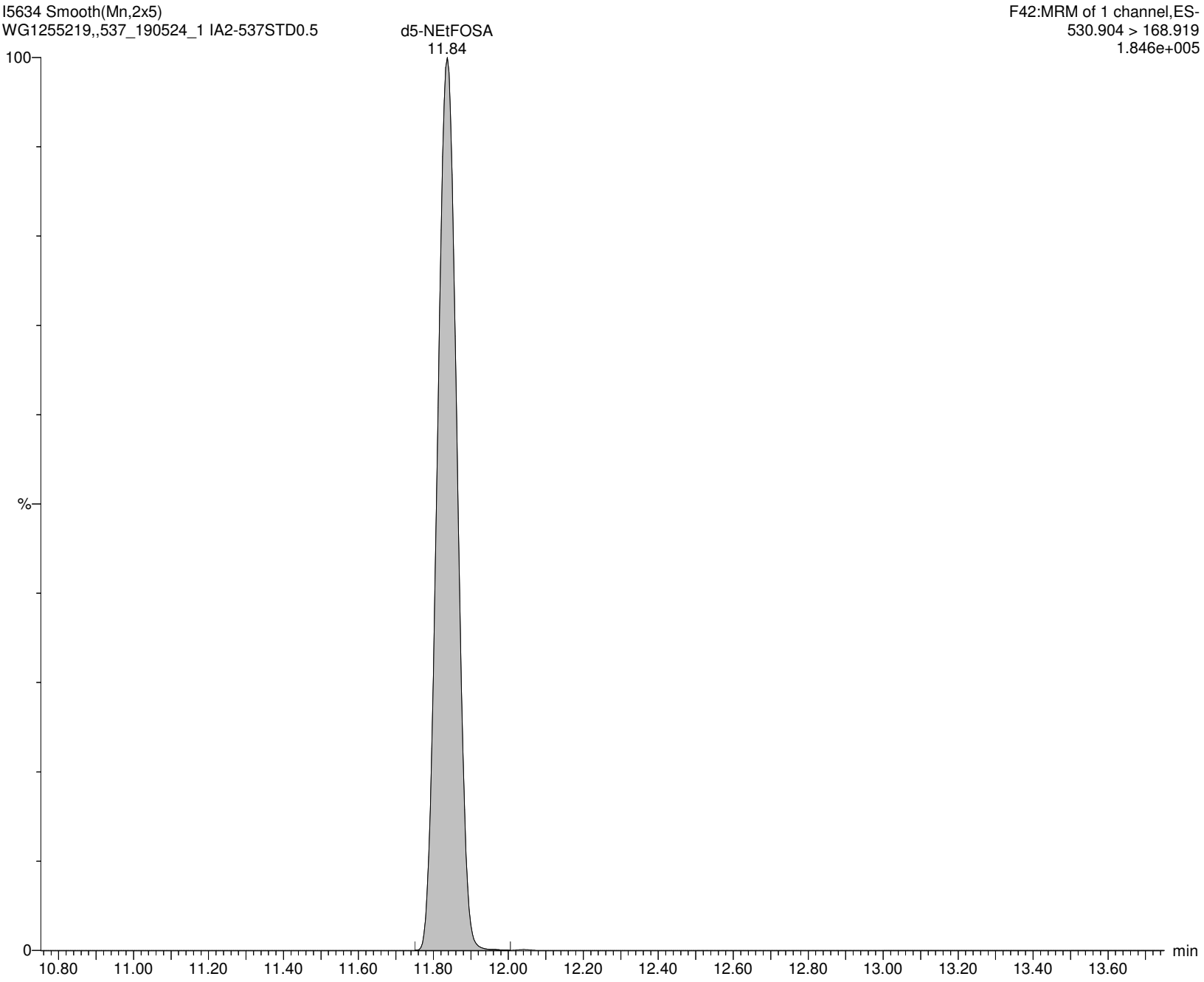


all concentration units in (ng/mL)

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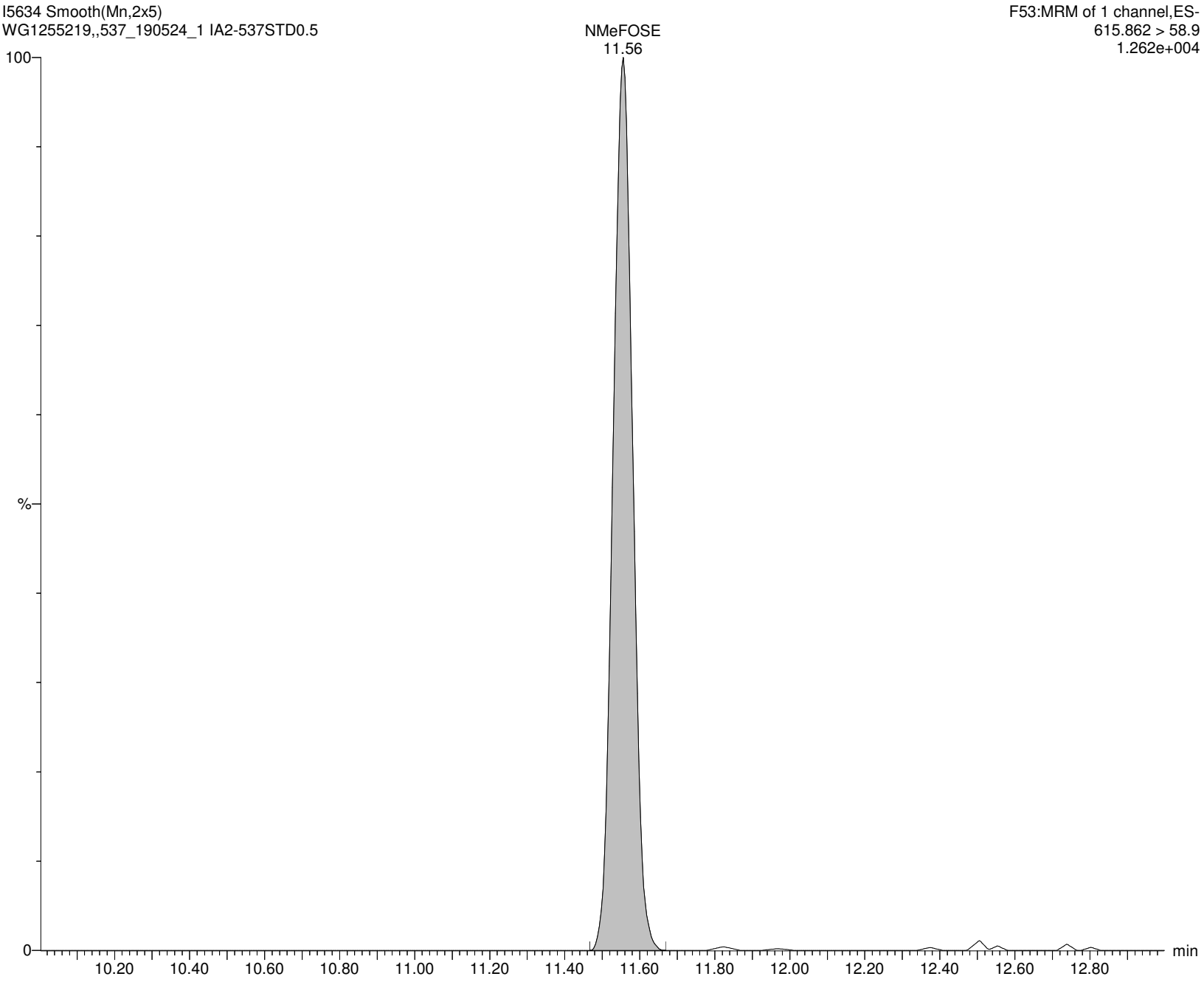


all concentration units in (ng/mL)

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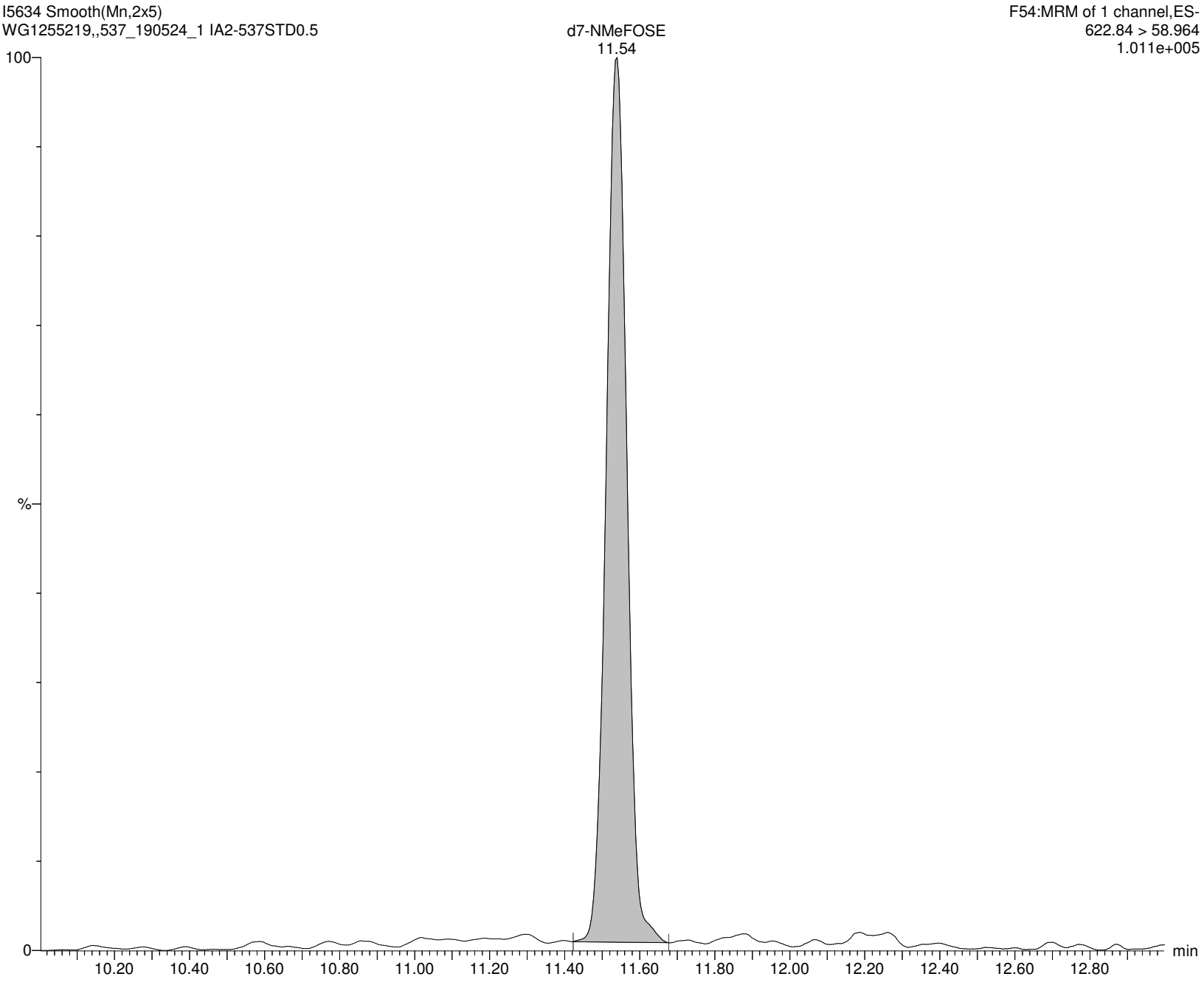


all concentration units in (ng/mL)

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Vial: 1:A,2
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d7-NMeFOSE

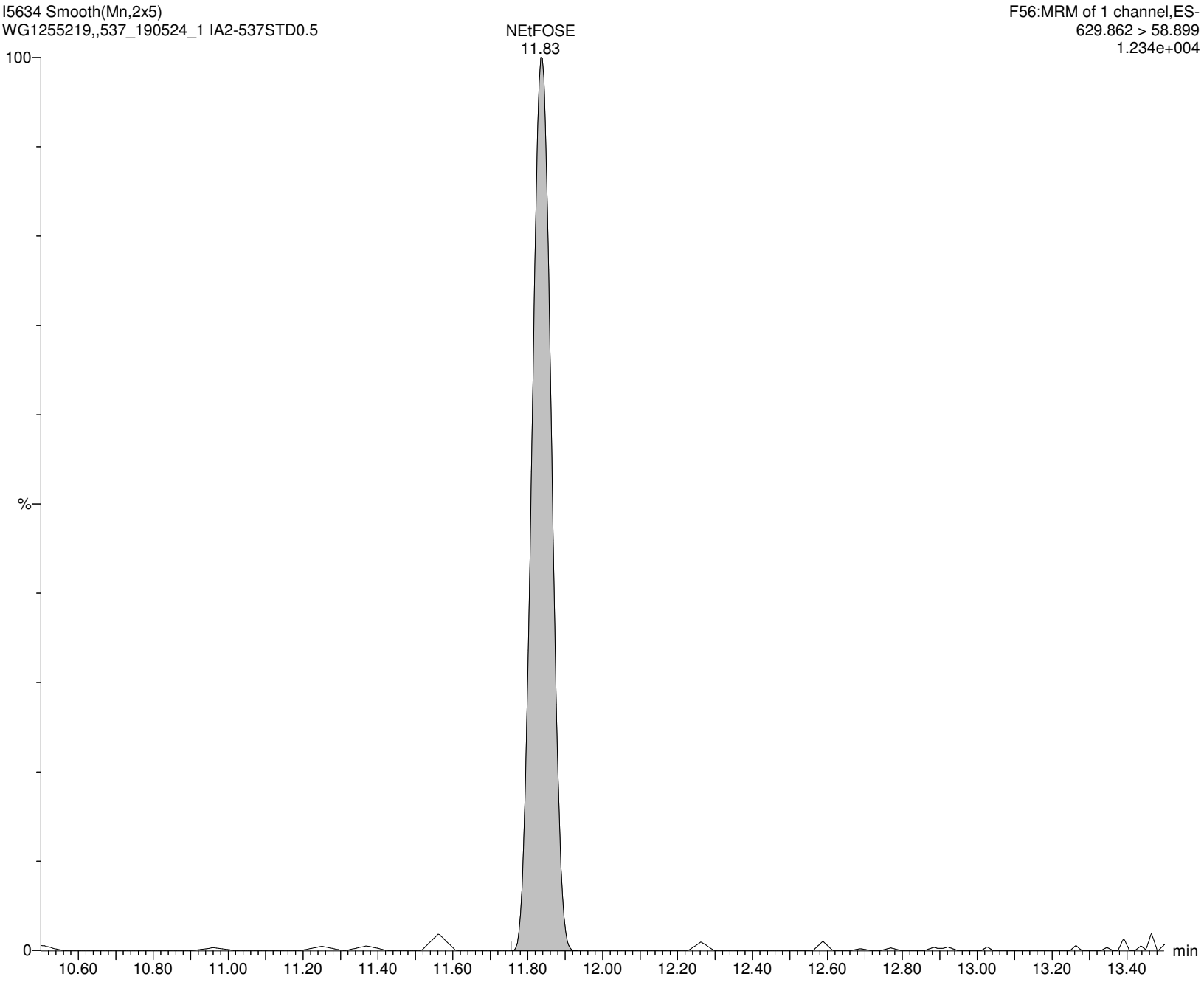


all concentration units in (ng/mL)

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NEtFOSE

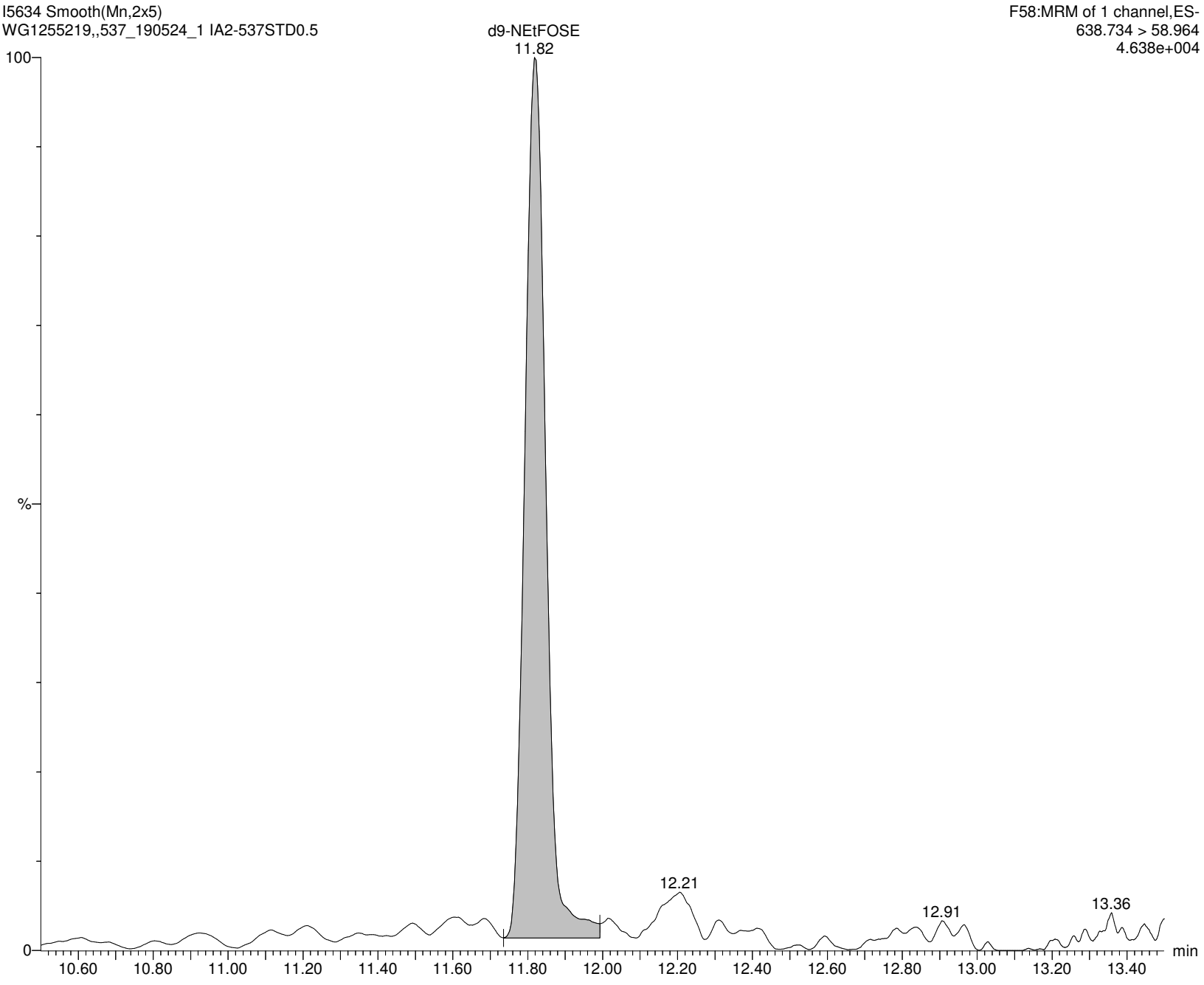


all concentration units in (ng/mL)

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d9-NEtFOSE



all concentration units in (ng/mL)

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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Date: 01-Jul-2019
Time: 18:13:58
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Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
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MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.10	212.926 > 169.111	3591		0.960		na	96.0
2	M3PFBA	INT STD	2.10	215.926 > 172.122	38008		9.827		na	98.3
3	MPFBA	INT STD	2.10	216.926 > 172.137	41133		9.651		na	96.5
4	PFPeA	2706-90-3	4.99	262.926 > 219.002	6518		1.057		na	105.7
5	M5PFPEA	INT STD	4.98	267.989 > 223.081	60070		9.957		na	99.6
6	PFBS	375-73-5	5.65	298.926 > 79.923	1198		0.830	1.87	YES	93.8
7	M3PFBS	INT STD	5.65	301.989 > 80.254	9703		9.269		na	92.7
8	4:2FTS	757124-72-4	6.82	326.926 > 306.957	514		1.081	2.24	NO	115.6
9	M2-4:2FTS	INT STD	6.82	329.117 > 309.079	4592		7.320		na	73.2
10	PFHxA	307-24-4	6.90	312.989 > 269.028	8903		1.187	19.04	NO	118.7
11	M5PFHxA	INT STD	6.90	317.989 > 273.045	75905		9.594		na	95.9
12	PFPeS	2706-91-4	7.23	348.926 > 80.251	972		0.871	1.97	NO	92.6
13	PFHpA	375-85-9	8.19	362.926 > 319.014	9492		0.965	5.92	NO	96.5
14	M4PFHpA	INT STD	8.19	366.926 > 321.979	98610		9.783		na	97.8
15	br-PFHxS	355-46-4	8.12	398.926 > 80.295	56	M5	0.098		YES	57.4
16	L-PFHxS	355-46-4	8.36	398.926 > 80.295	546		0.643	1.14	NO	87.0
17	PFHxS	355-46-4		398.926 > 80.295	603		0.741		na	
18	M3PFHxS	INT STD	8.36	401.926 > 80.317	6267		9.660		na	96.6
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1	9.15	412.989 > 368.9	8922		1.007	11.53	NO	100.7
21	M2PFOA	INT STD	9.15	415.032 > 369.968	93843		10.293		na	102.9
22	PFOA	335-67-1		412.989 > 368.9	8922		1.007		na	
23	M8PFOA	INT STD	9.15	420.989 > 375.979	89291		9.576		na	95.8
24	6:2FTS	27619-97-2	9.11	426.989 > 406.921	284		0.836		YES	88.0
25	M2-6:2FTS	INT STD	9.11	428.989 > 408.917	4226		7.475		na	74.8
26	PFHpS	375-92-8	9.25	448.926 > 80.257	389		0.680	0.75	NO	71.6
27	PFNA	375-95-1	9.91	462.989 > 418.931	7976		1.045	4.36	NO	104.5
28	M9PFNA	INT STD	9.91	472.053 > 426.947	84153		9.746		na	97.5
29	br-PFOS	1763-23-1	9.77	498.989 > 80.294	176	M5	0.204	0.50	NO	102.0
30	L-PFOS	1763-23-1	9.96	498.989 > 80.294	724		0.880		YES	120.6
31	PFOS	1763-23-1		498.989 > 80.294	901		1.084		na	
32	M4PFOS	INT STD	9.96	503.032 > 80.306	7865		10.576		na	105.8
33	M8PFOS	INT STD	9.96	507.053 > 80.294	7984		9.425		na	94.2
34	PFDA	335-76-2	10.54	513.053 > 468.906	7065		0.939	5.60	NO	93.9
35	M2PFDA	INT STD	10.55	515.053 > 469.934	76677		10.720		na	107.2
36	M6PFDA	INT STD	10.55	519.053 > 473.931	83197		9.704		na	97.0
37	8:2FTS	39108-34-4	10.53	526.926 > 506.818	255		0.948		na	98.7
38	M2-8:2FTS	INT STD	10.54	529.053 > 508.945	2466		7.948		na	79.5
39	PFNS	68259-12-1	10.58	548.989 > 80.249	633		0.798	1.18	NO	83.1

all concentration units in (ng/mL)

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User: LCMS02:JW
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MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.91	573.096 > 418.987	7493		8.808		na	88.1
41	NMeFOSAA	2355-31-9	10.92	570.053 > 418.917	948		1.246	2.70	NO	124.6
42	PFUnA	2058-94-8	11.09	562.989 > 518.903	7279		0.955	7.74	NO	95.5
43	M7-PFUDA	INT STD	11.09	570.053 > 524.923	74232		9.792		na	97.9
44	PFDS	335-77-3	11.10	598.926 > 80.314	454		0.773	0.90	NO	80.1
45	FOSA	754-91-6	10.94	497.989 > 78.245	2552		0.883		YES	88.3
46	M8FOSA	INT STD	10.94	506.053 > 78.286	25152		9.857		na	98.6
47	d5-NEtFOSAA	INT STD	11.20	589.117 > 418.929	6795		8.815		na	88.1
48	NEtFOSAA	2991-50-6	11.22	583.989 > 418.927	810		1.179	3.51	NO	117.9
49	PFDoA	307-55-1	11.56	612.989 > 568.967	7534		1.019	14.80	NO	101.9
50	MPFDOA	INT STD	11.56	614.989 > 569.92	77038		9.178		na	91.8
51	PFTrDA	72629-94-8	11.97	663.053 > 618.969	9469		1.364	12.56	NO	136.4
52	PFTA	376-06-7	12.33	713.053 > 668.976	5857		1.034	8.87	NO	103.4
53	M2PFTEDA	INT STD	12.33	715.053 > 669.945	65113		9.181		na	91.8
54	M3HFPO-DA	INT STD	7.34	331.989 > 286.995	33407		137.708		na	68.9
55	HFPO-DA	13252-13-6	7.34	284.819 > 169.094	747		16.977	2.95	YES	84.9
56	ADONA	958445-44-8	8.38	376.926 > 251.005	11514		0.898		na	94.9
57	PFHxDA		12.75	813.053 > 769.005	6589		1.292		na	129.2
58	PFODA		12.96	912.989 > 869.032	4803		1.206		na	120.6
59	M2PFHxDA		12.75	815.372 > 770.158	20156		9.329		na	93.3
60	PFDoS		11.96	698.649 > 79.853	349		0.899	2.33	YES	89.9
61	10:2FTS		11.58	626.862 > 606.896	219		0.780		na	80.9
62	9CL-PF3ONS		10.32	530.862 > 350.843	4518		0.836		na	89.7
63	11CL-PFOUdS		11.36	630.862 > 450.854	3758		0.790		na	83.8
64	NMeFOSA		11.55	511.804 > 168.906	747		0.980	1.63	NO	98.0
65	d3-NMeFOSA		11.54	514.84 > 168.917	8155		9.226		na	92.3
66	NEtFOSA		11.85	525.84 > 168.92	837		0.892	7.81	NO	89.2
67	d5-NEtFOSA		11.83	530.904 > 168.919	10610		9.269		na	92.7
68	NMeFOSE		11.55	615.862 > 58.9	1471		0.947		na	94.7
69	d7-NMeFOSE		11.54	622.84 > 58.964	6141		9.935		na	99.3
70	NEtFOSE		11.83	629.862 > 58.899	1451		0.887		na	88.7
71	d9-NEtFOSE		11.81	638.734 > 58.964	3148		10.323		na	103.2

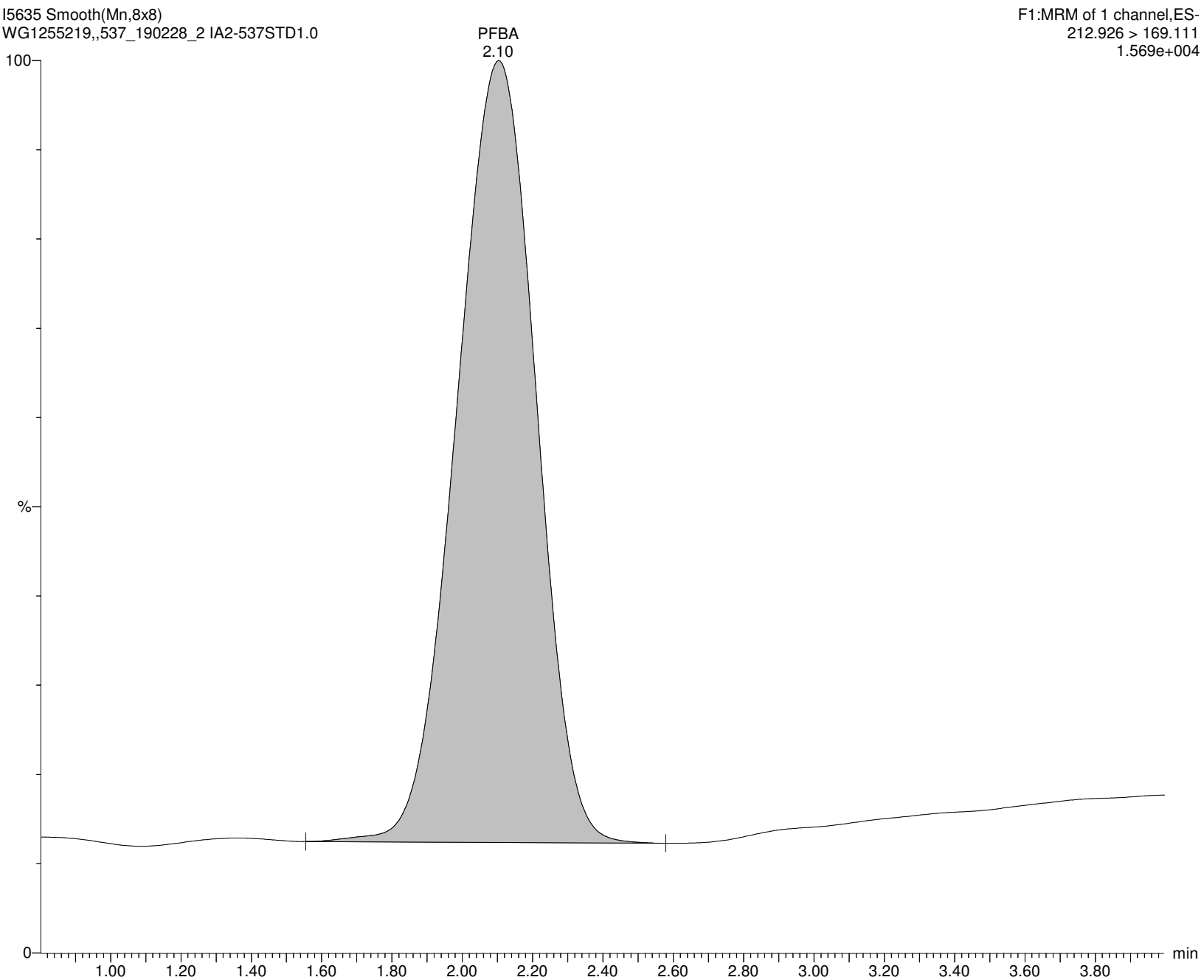
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:32 Eastern Daylight Time

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Name: I5635
ID: IA2-537STD1.0
Date: 01-Jul-2019
Time: 18:13:58
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User: LCMS02:JW
Vial: 1:A,3
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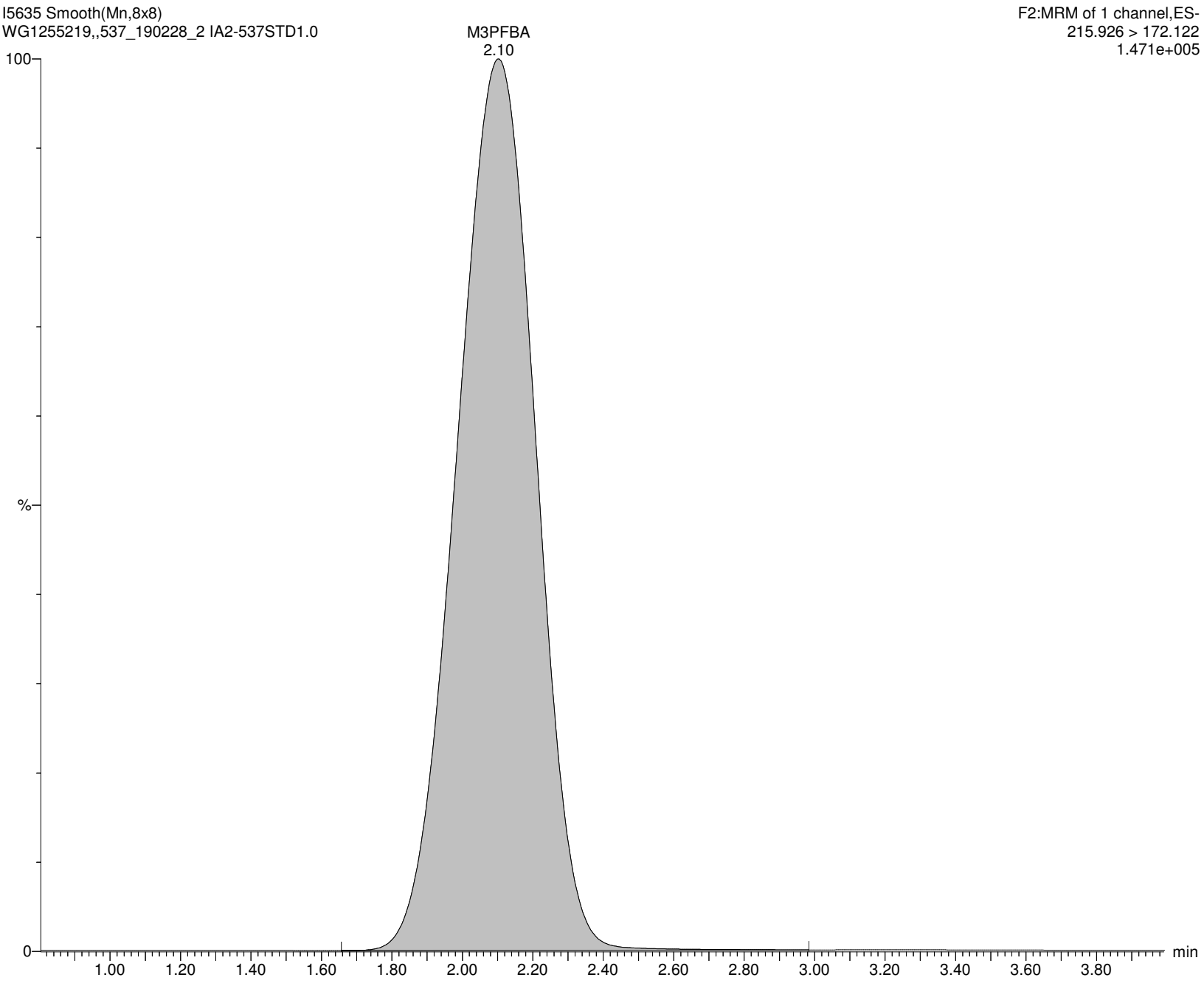


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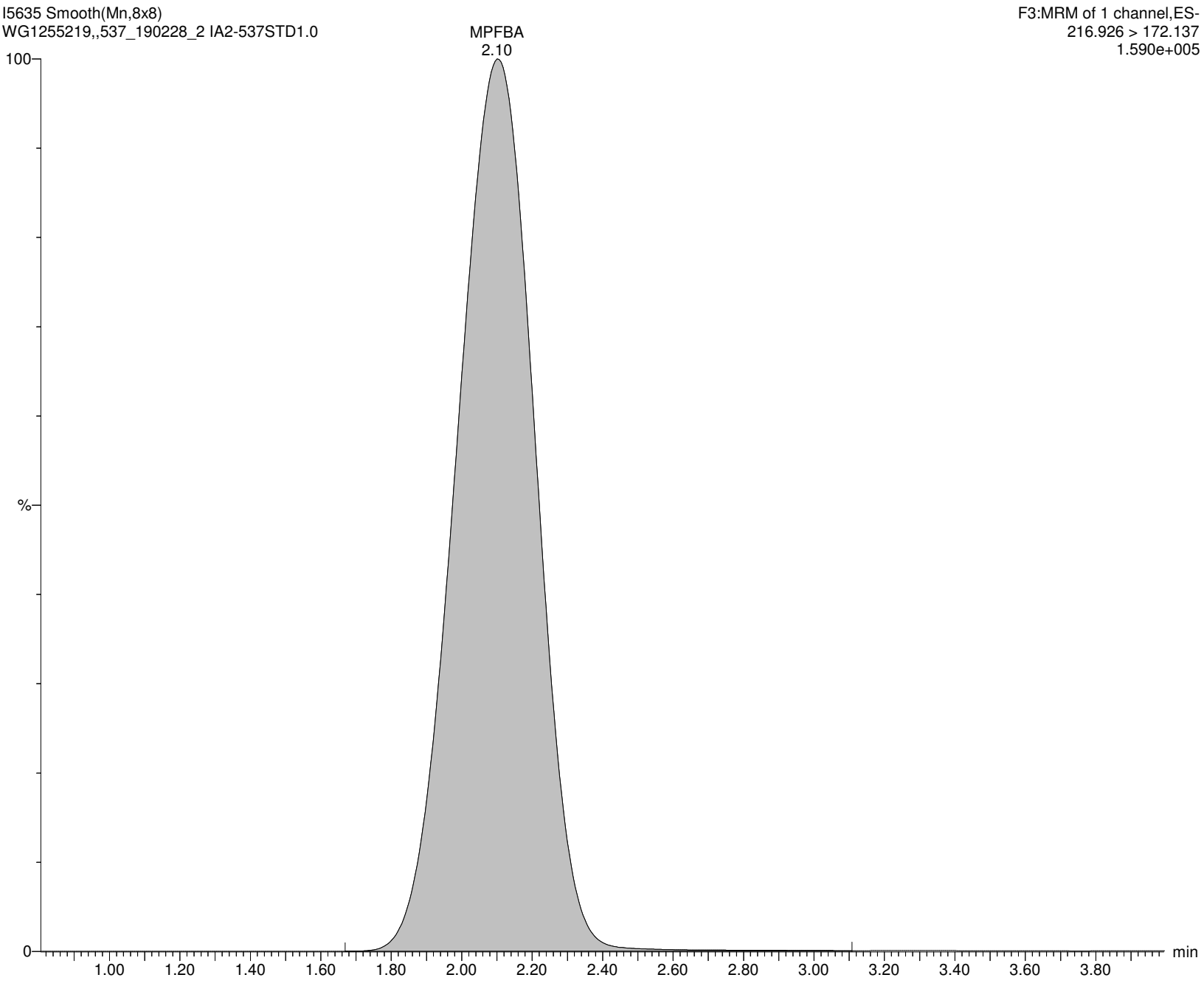


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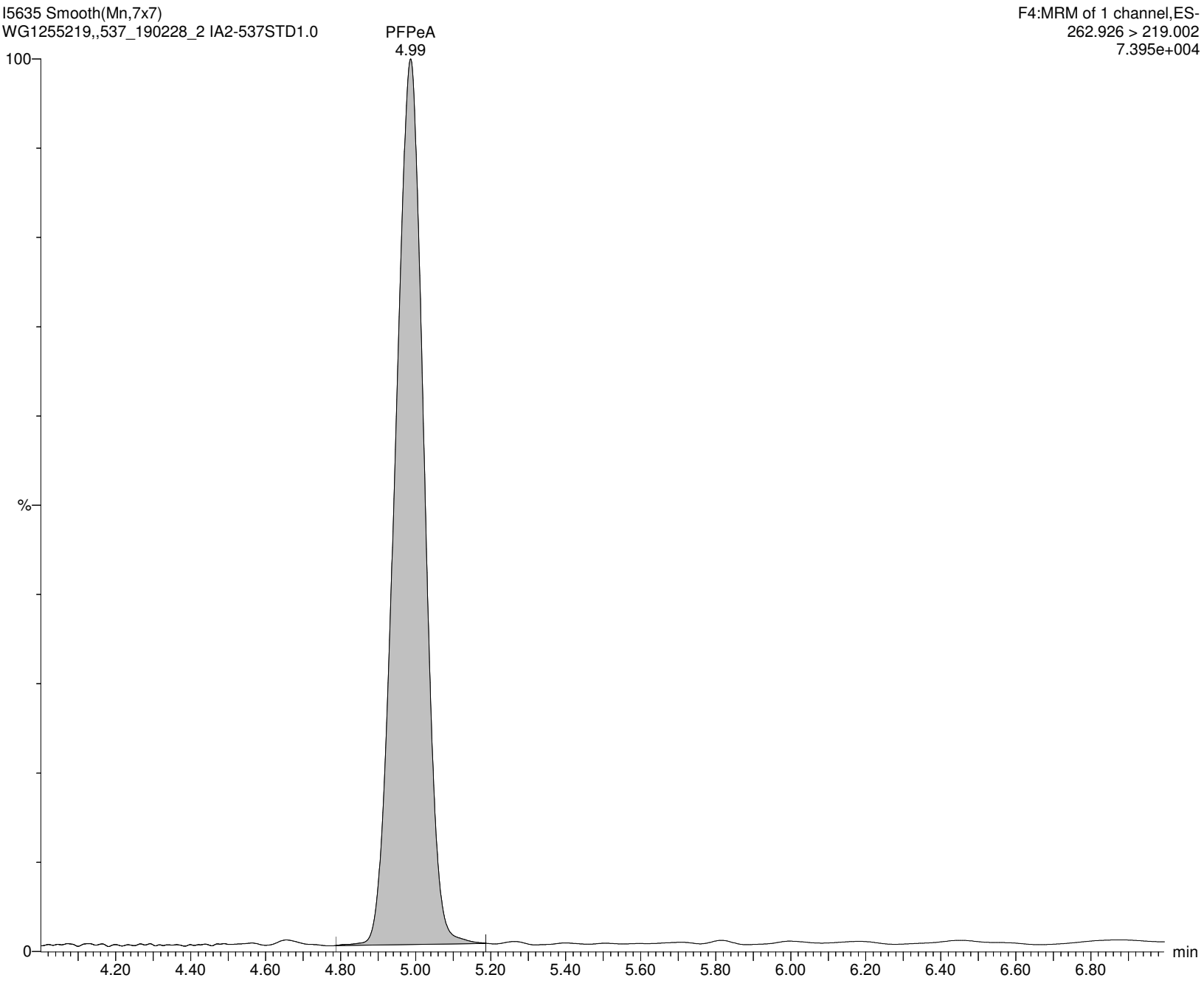


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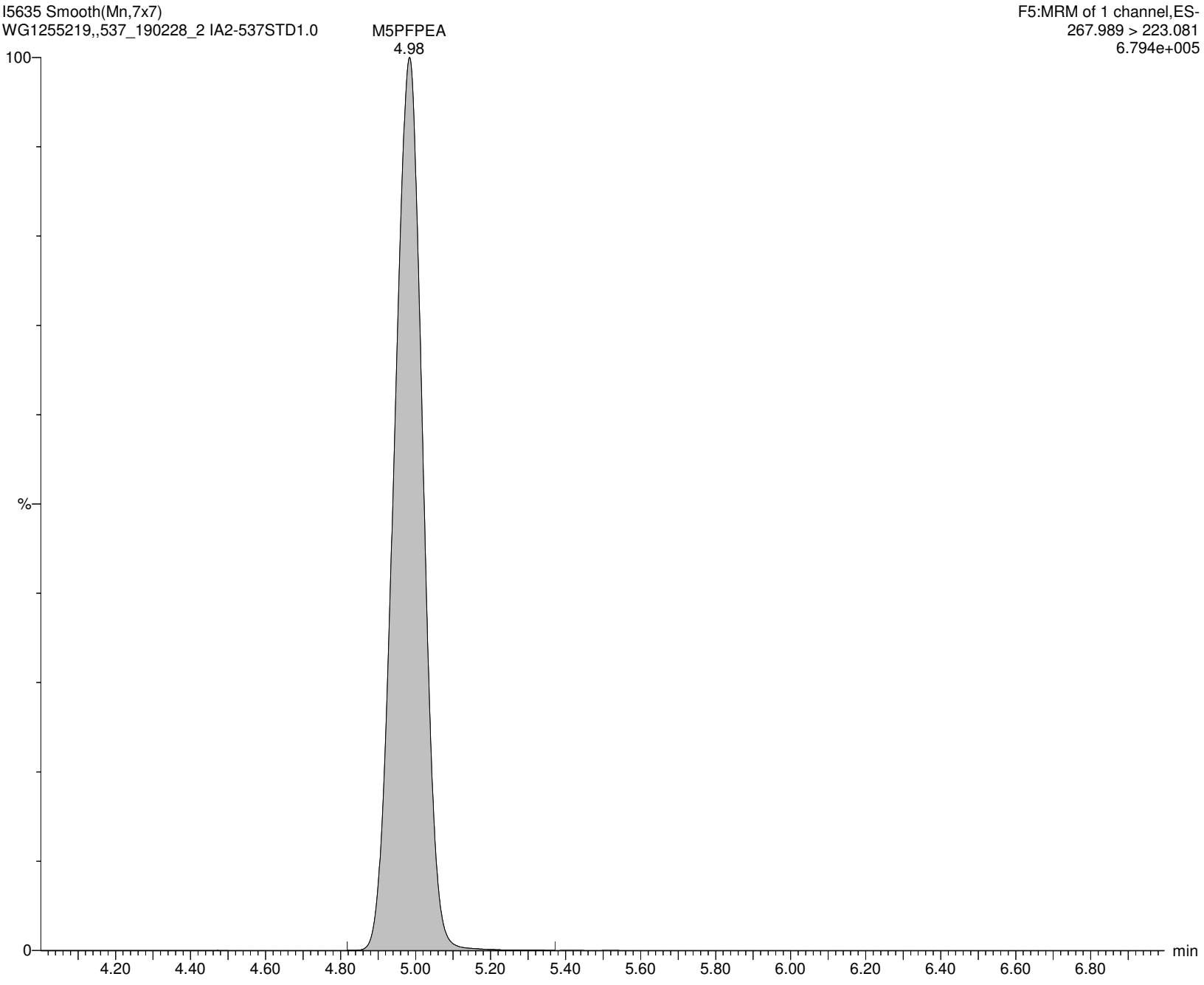


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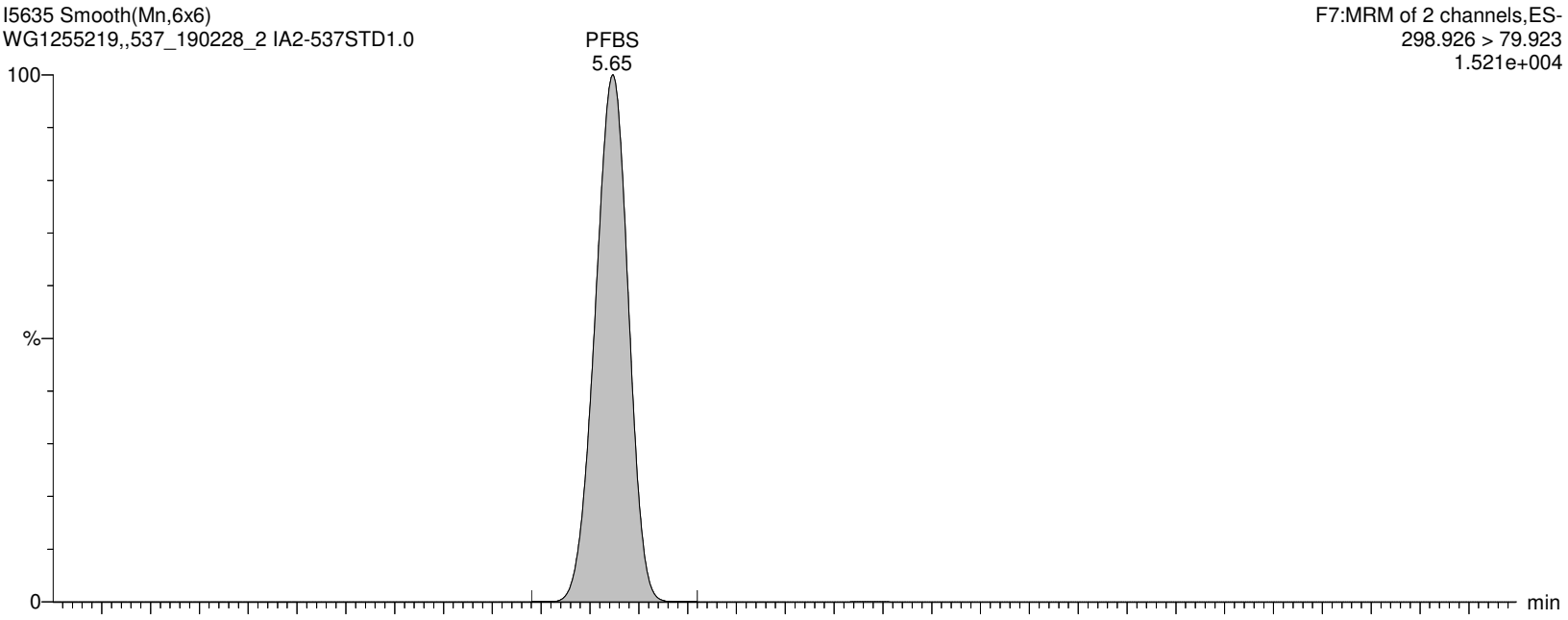


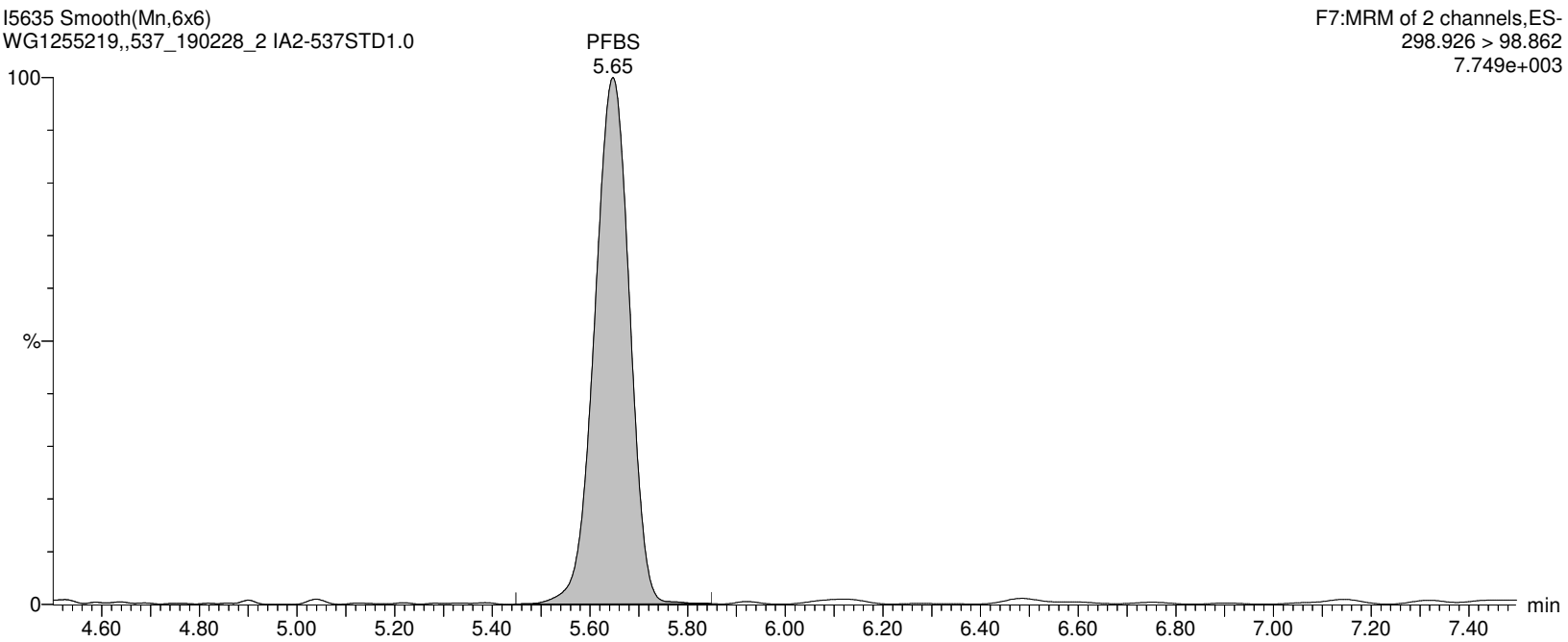
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PFBS



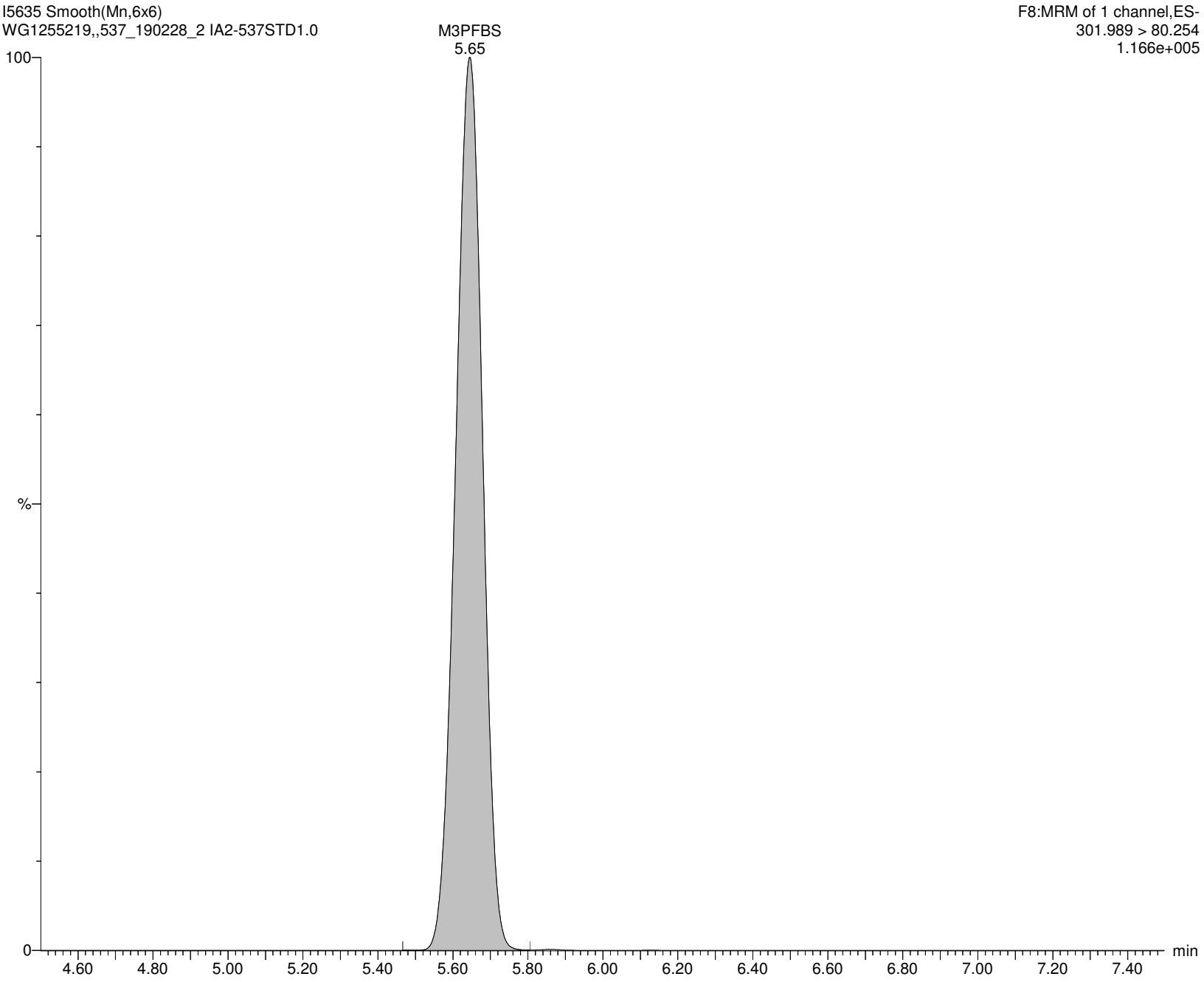


all concentration units in (ng/mL)

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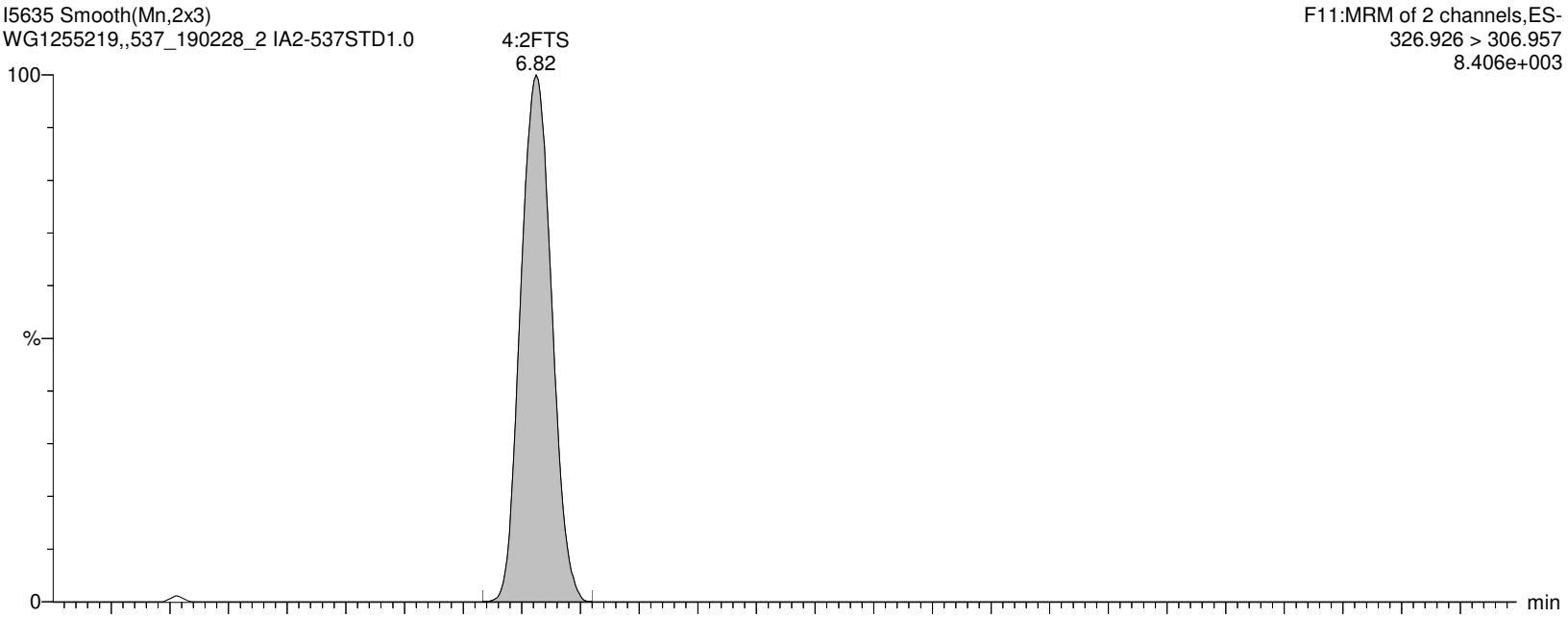


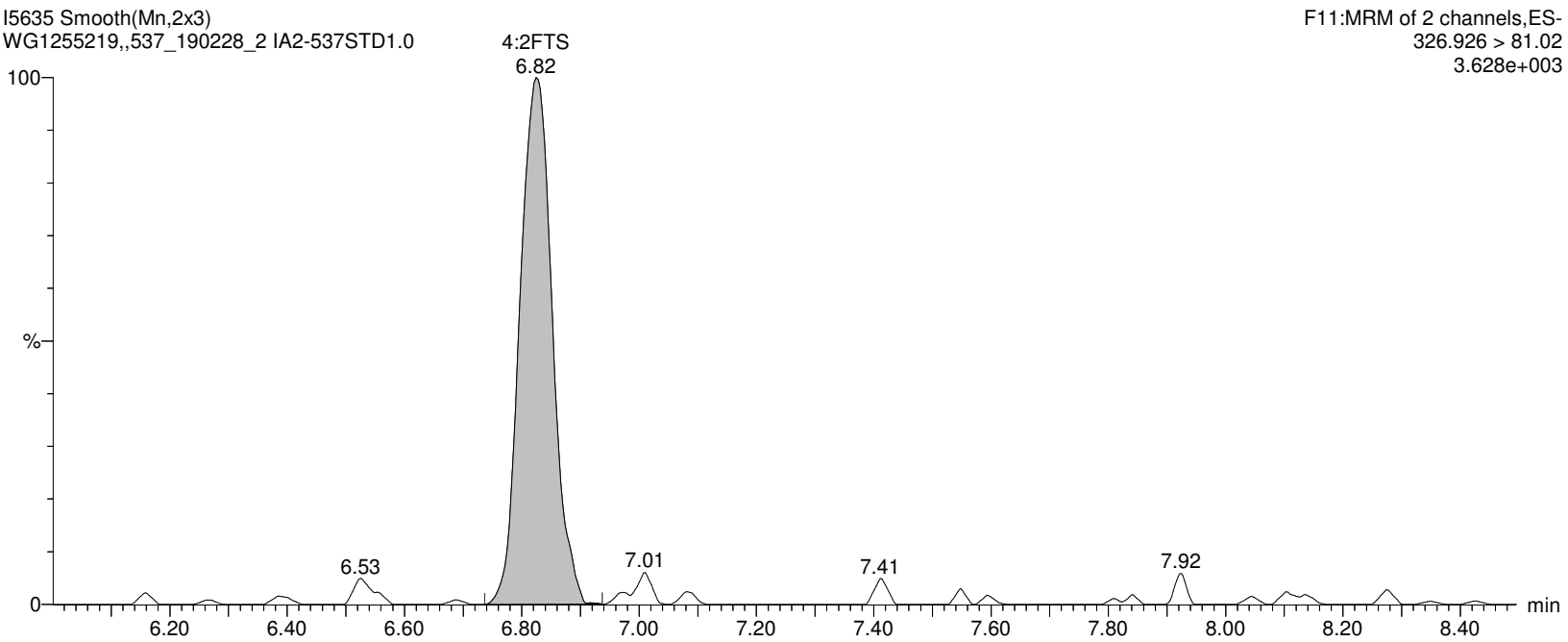
all concentration units in (ng/mL)

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4:2FTS



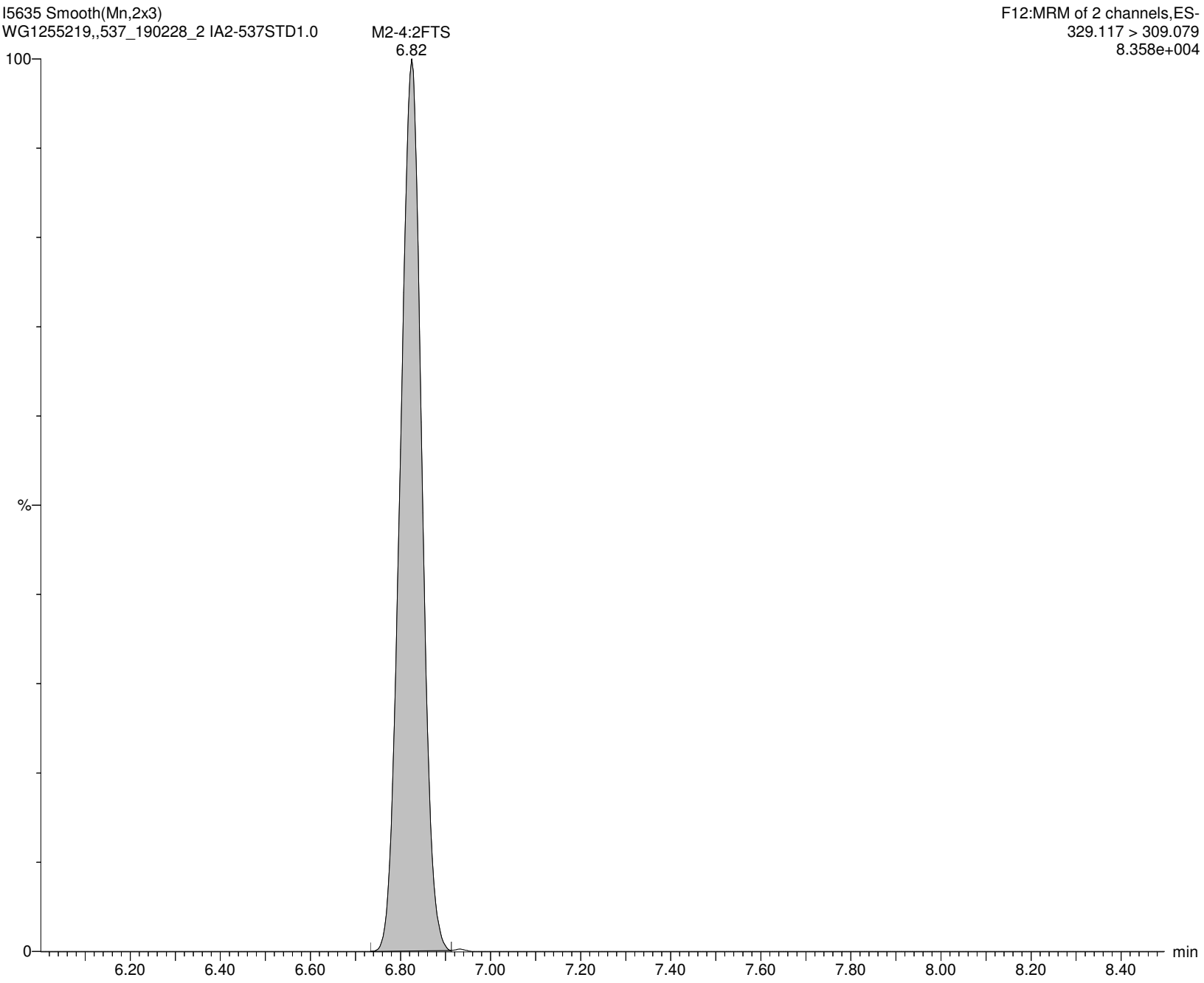


all concentration units in (ng/mL)

Alpha Analytical Inc.
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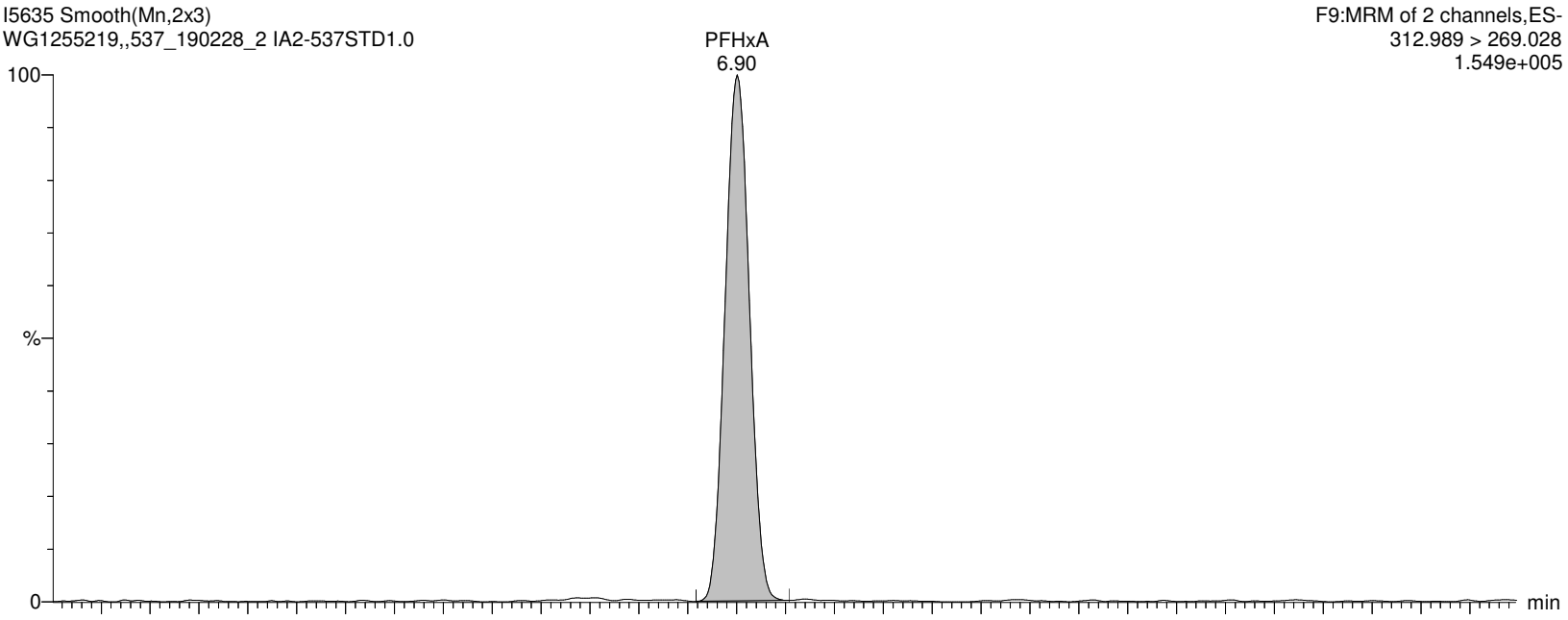


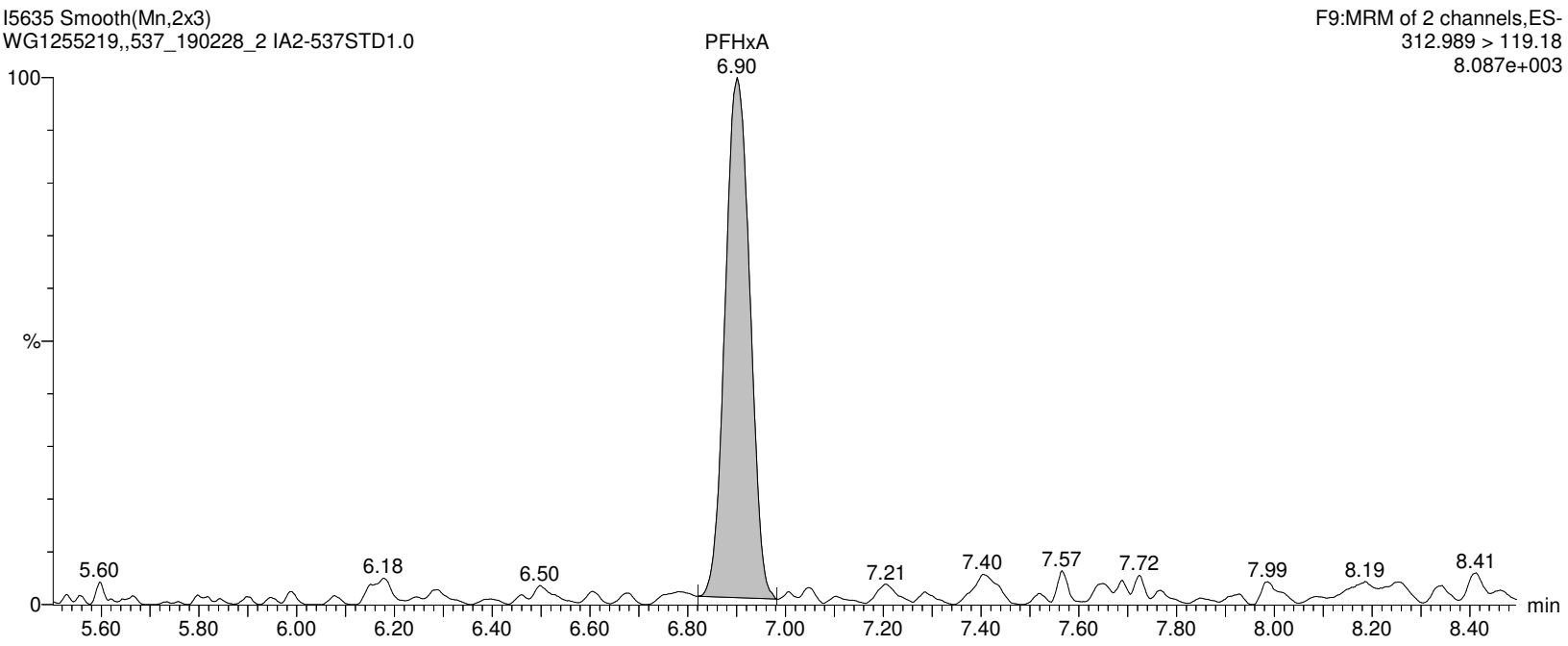
all concentration units in (ng/mL)

Alpha Analytical Inc.
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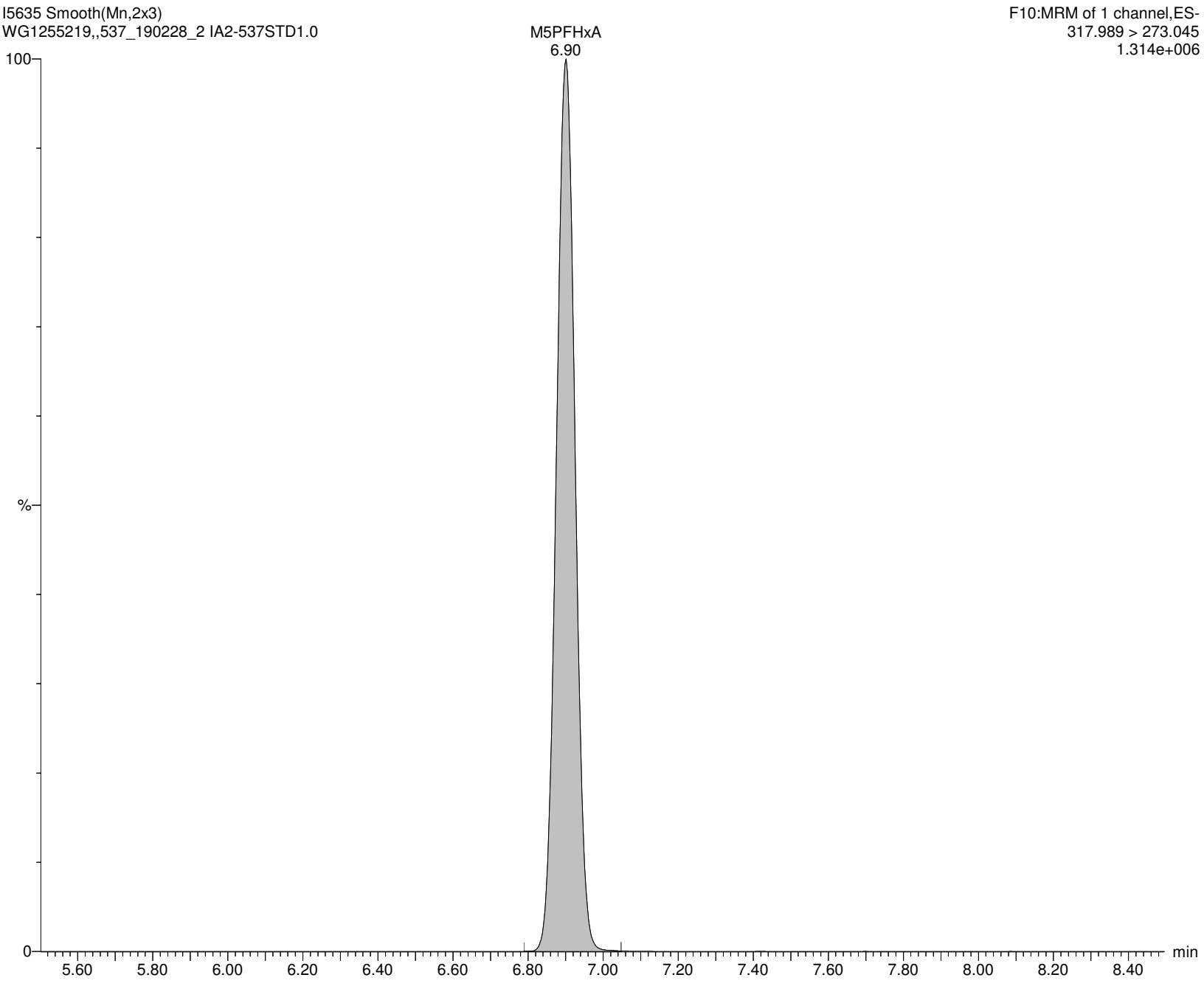


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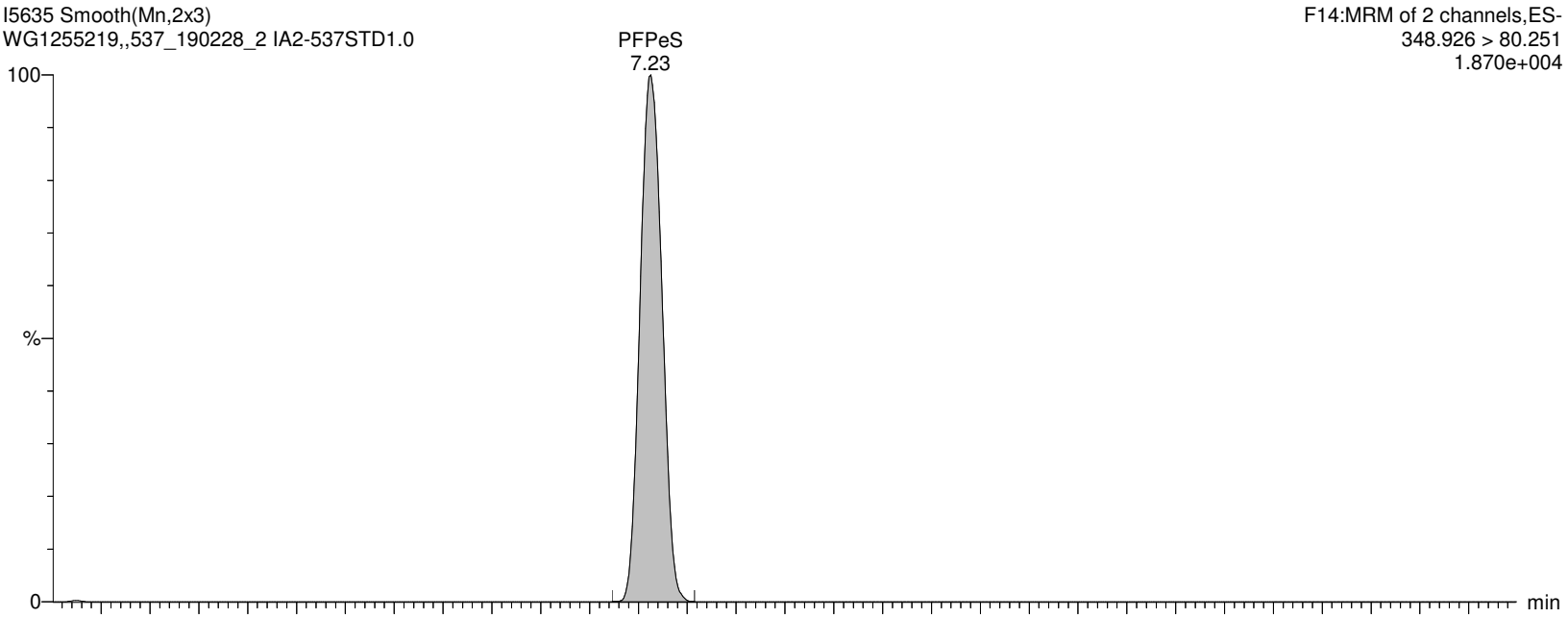


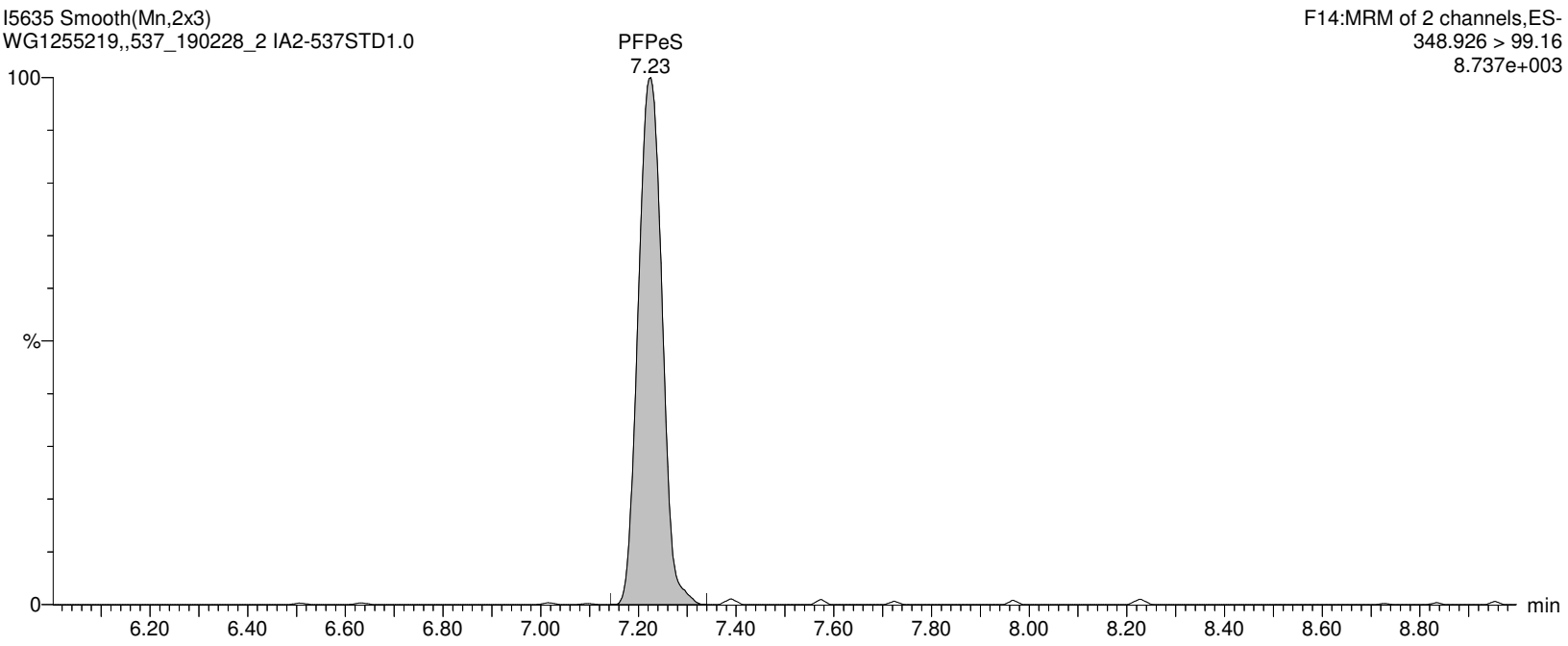
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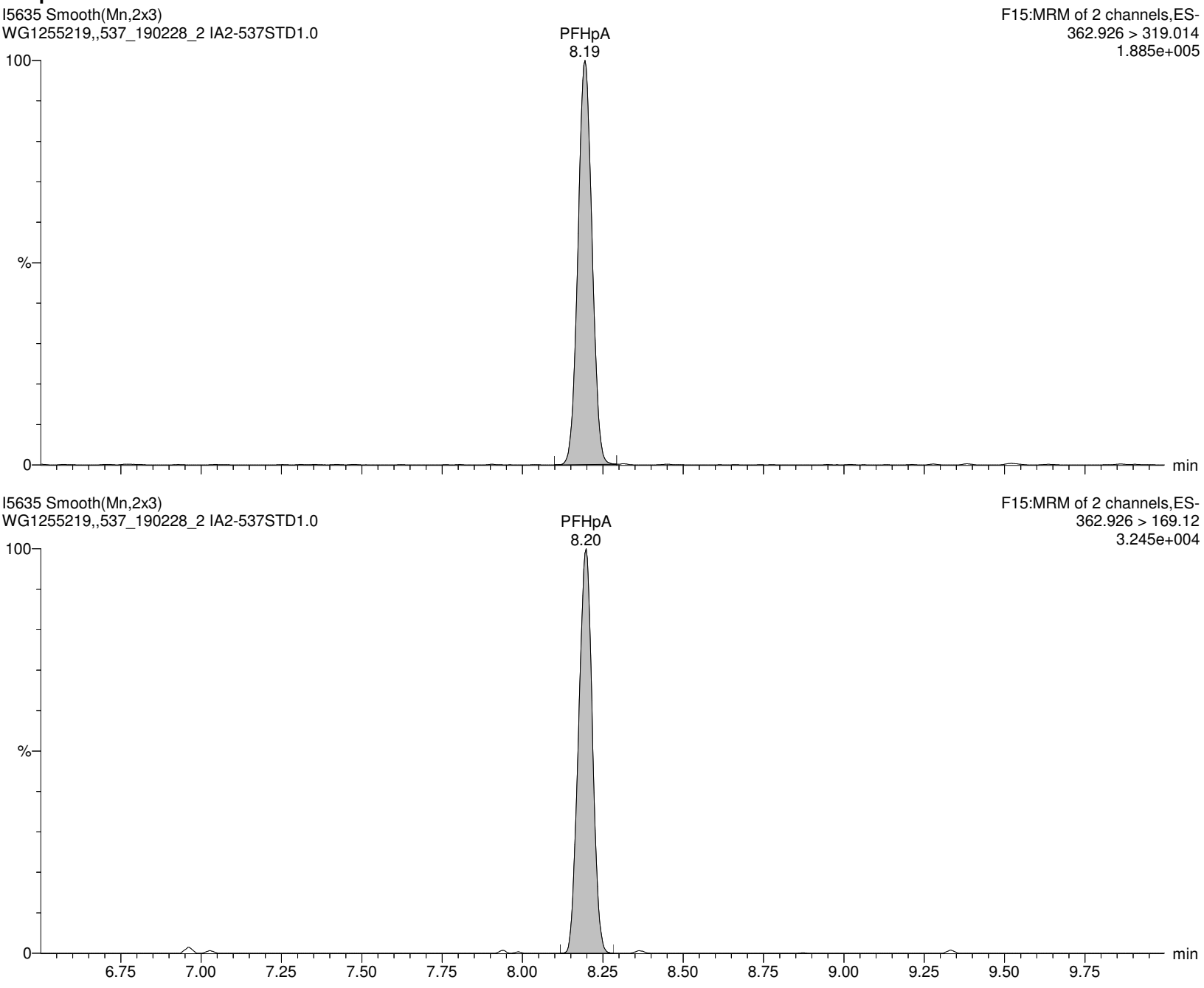


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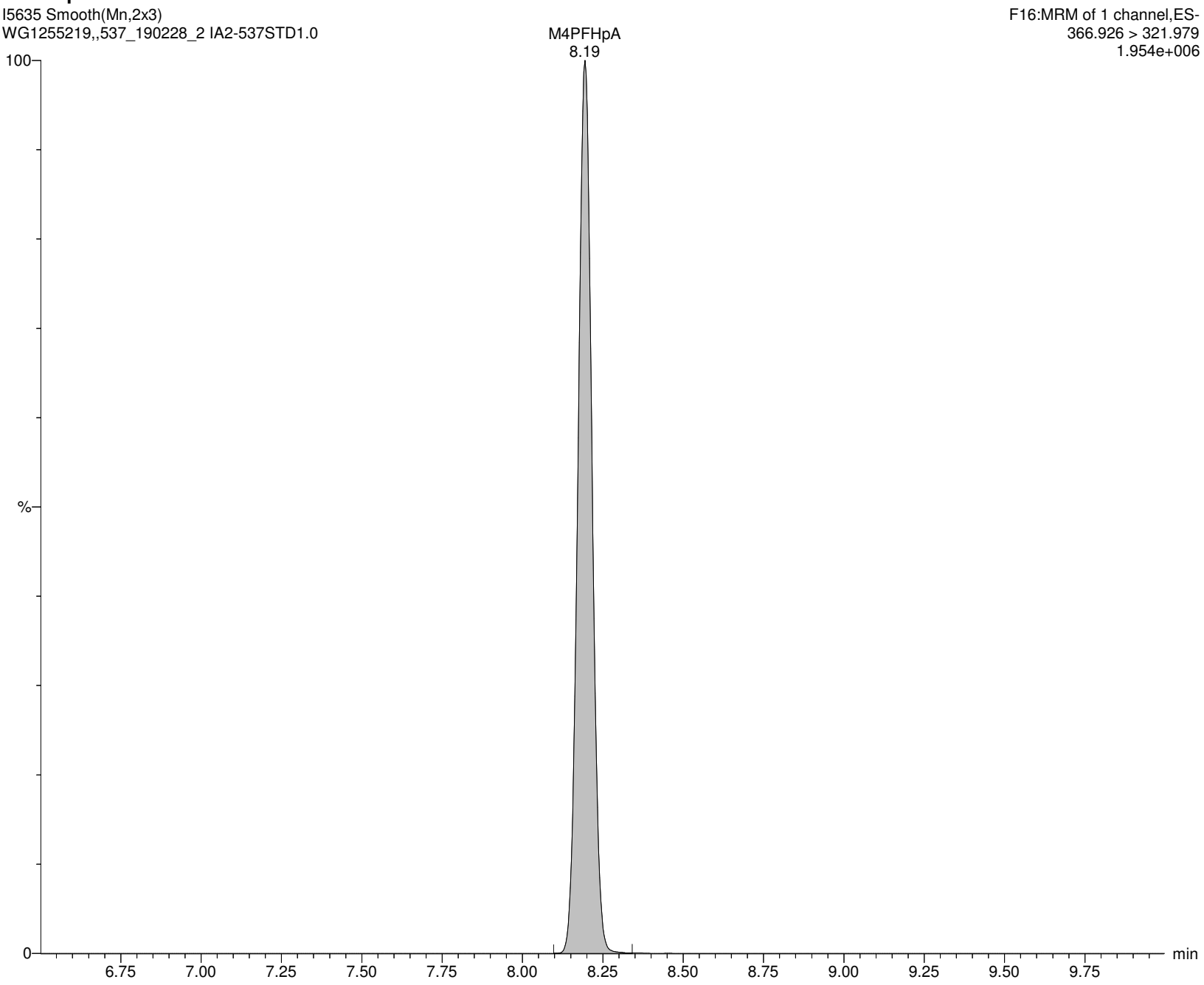


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:32 Eastern Daylight Time

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ID: IA2-537STD1.0
Date: 01-Jul-2019
Time: 18:13:58
Description: WG1255219,,537_190228_2
User: LCMS02:JW
Vial: 1:A,3
Instrument: XEVO-TQSmicro#QEB0050
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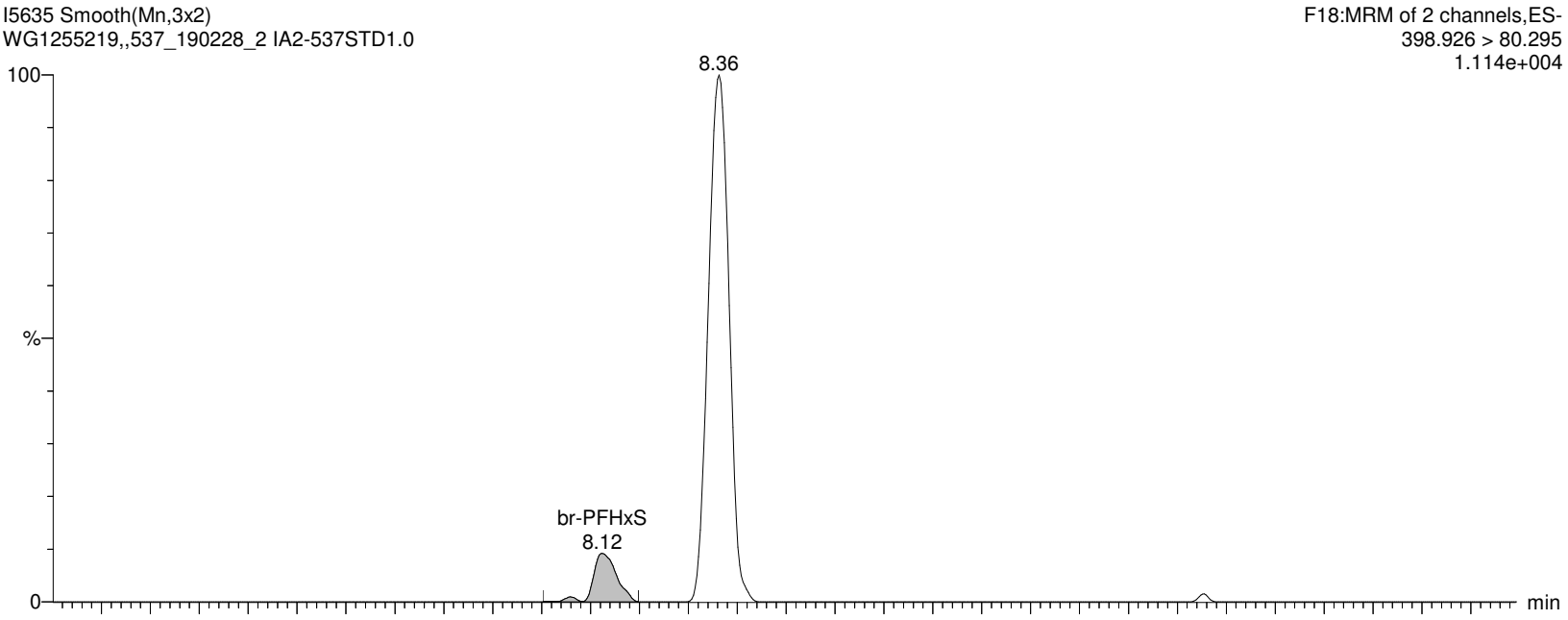


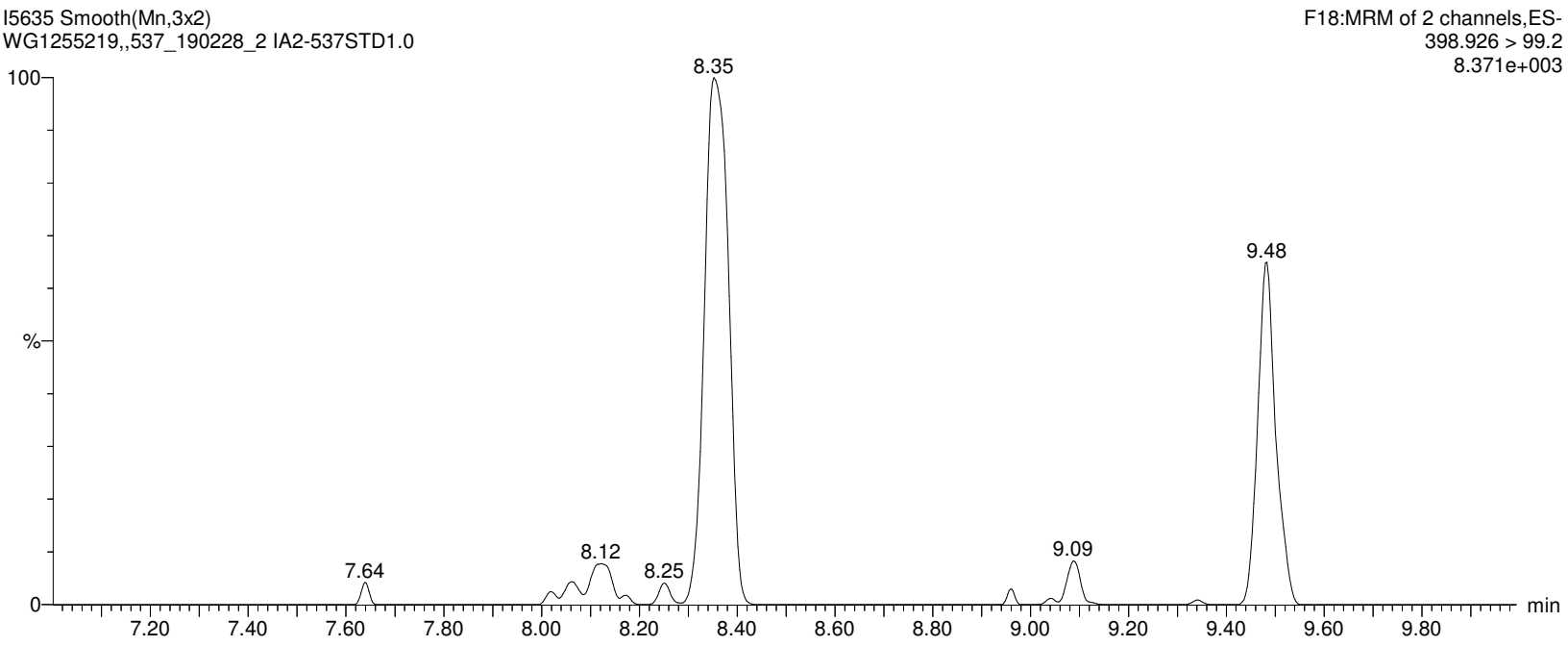
all concentration units in (ng/mL)

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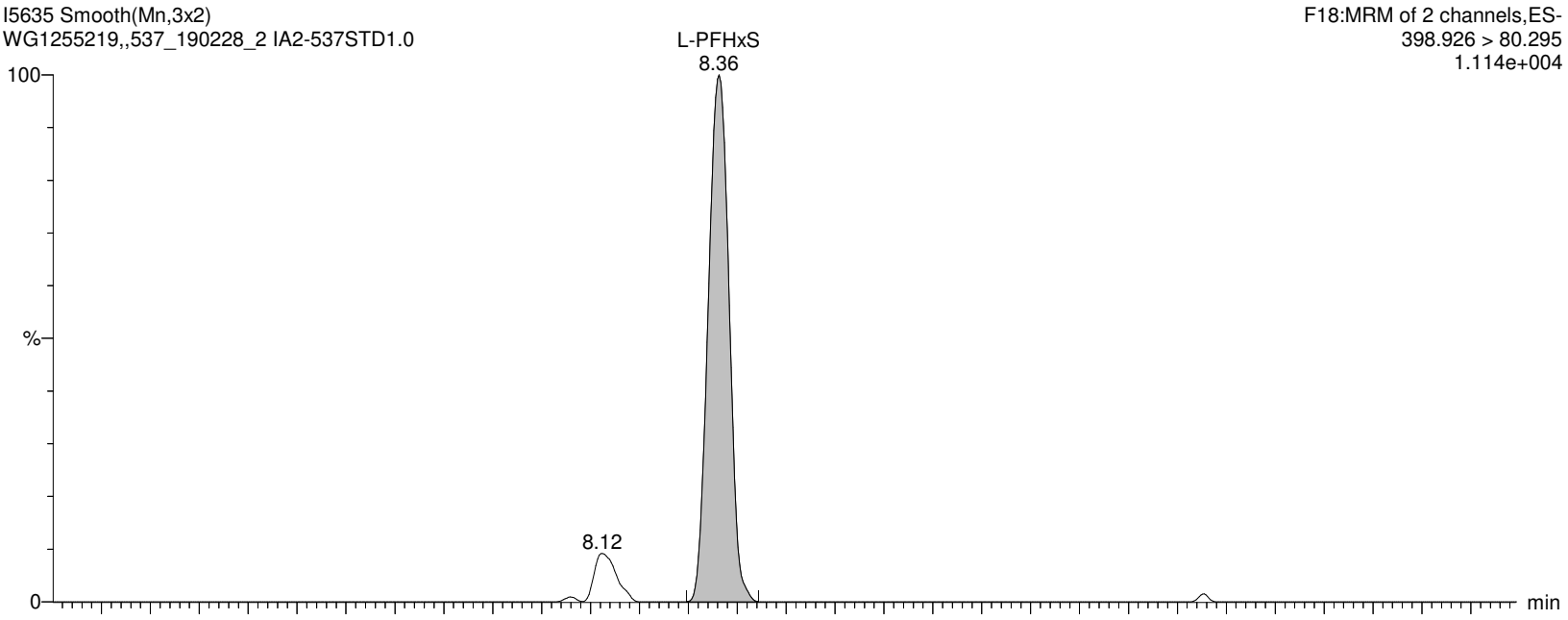


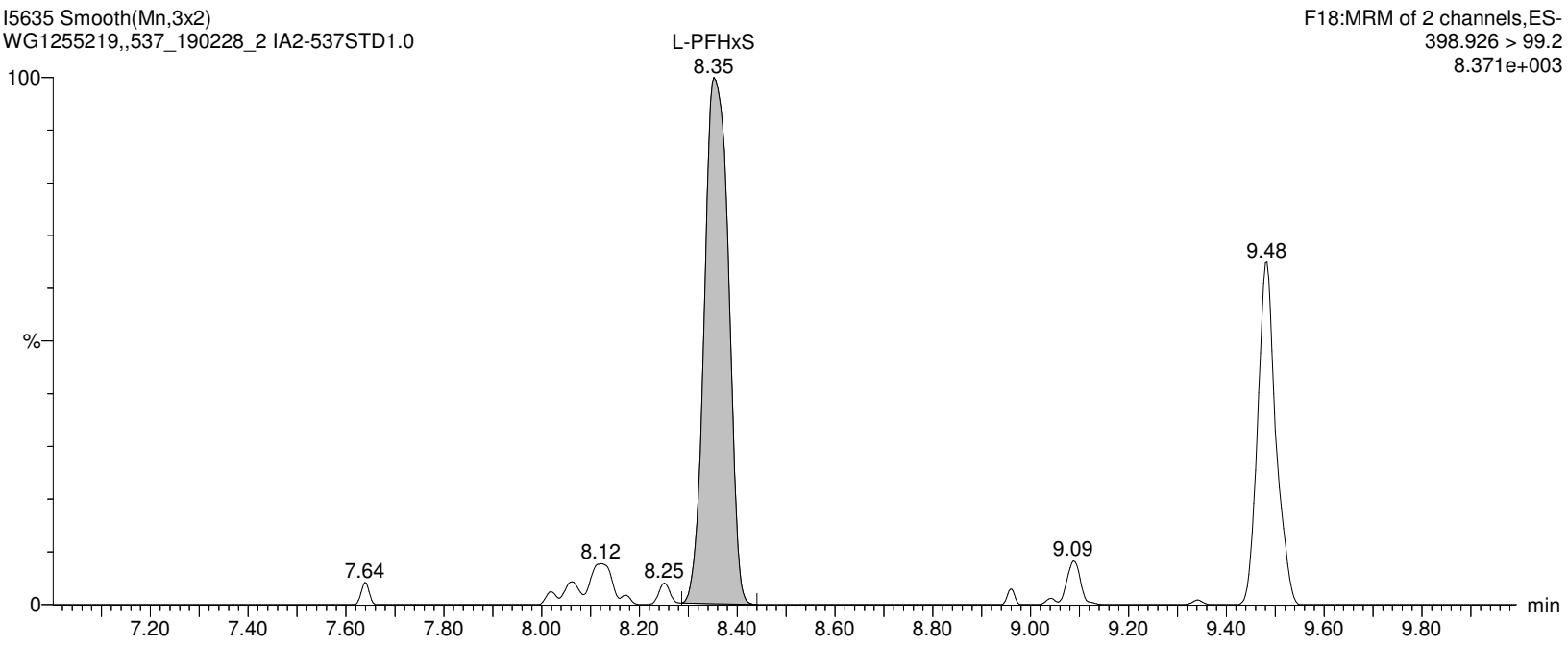
all concentration units in (ng/mL)

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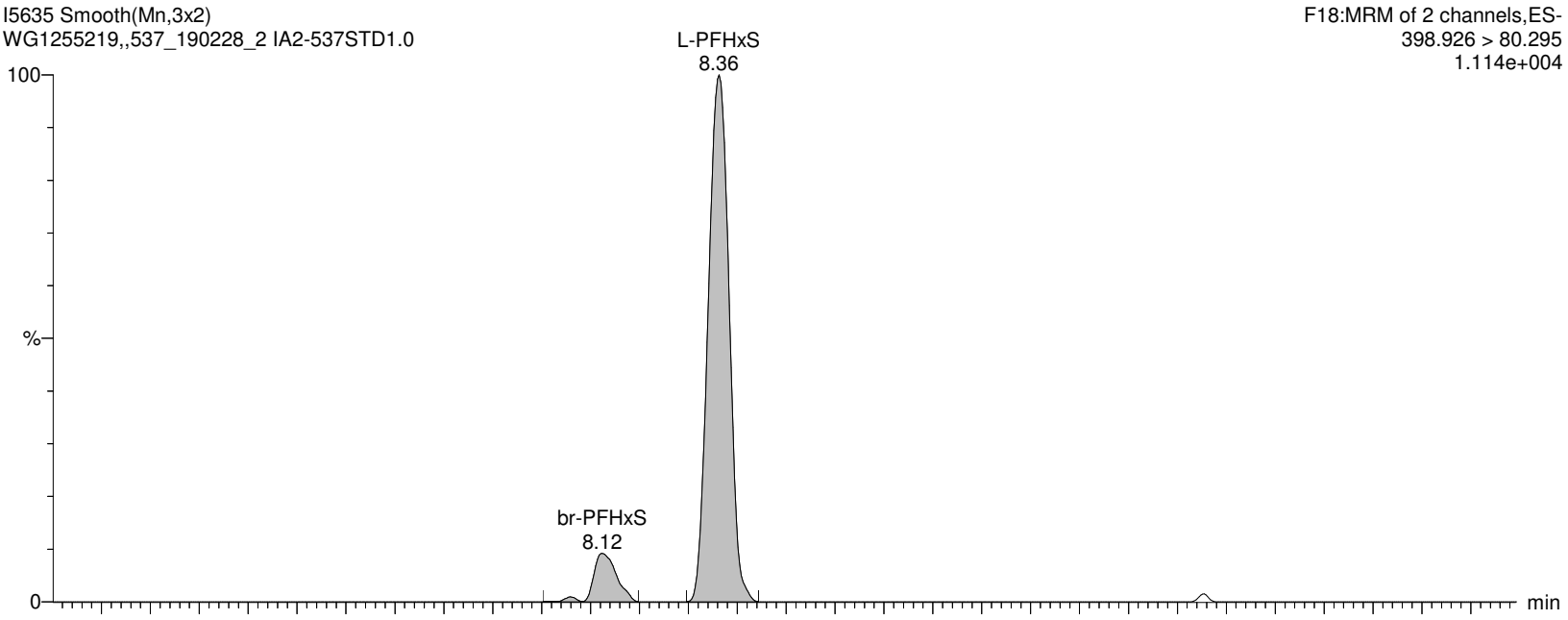


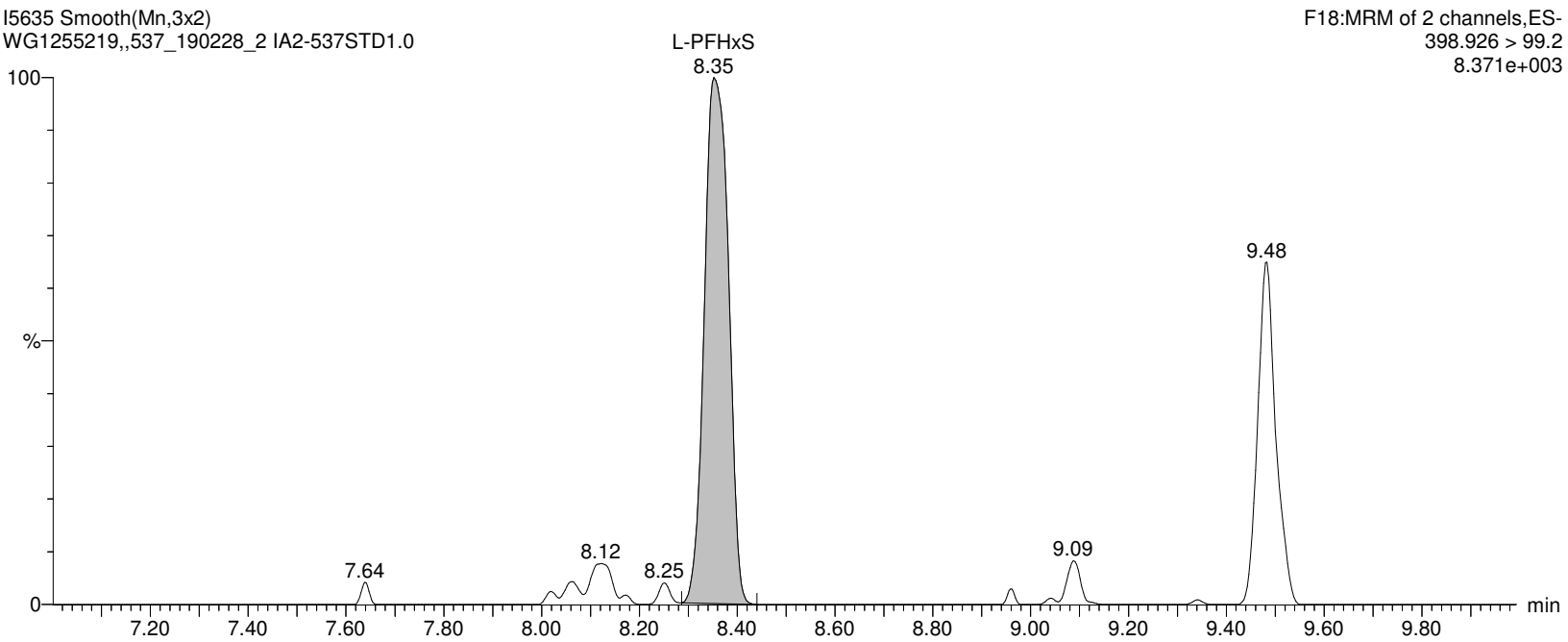
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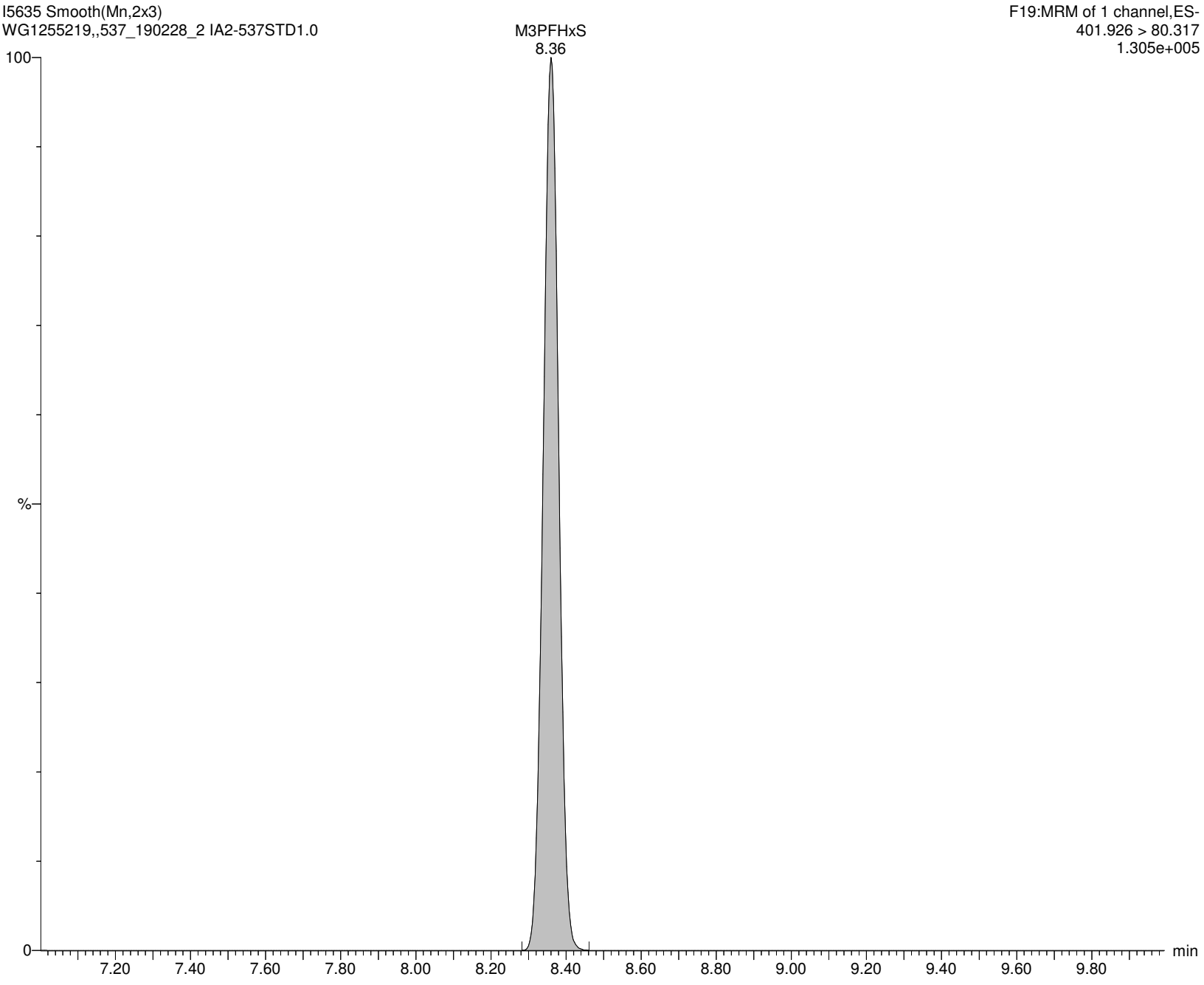


all concentration units in (ng/mL)

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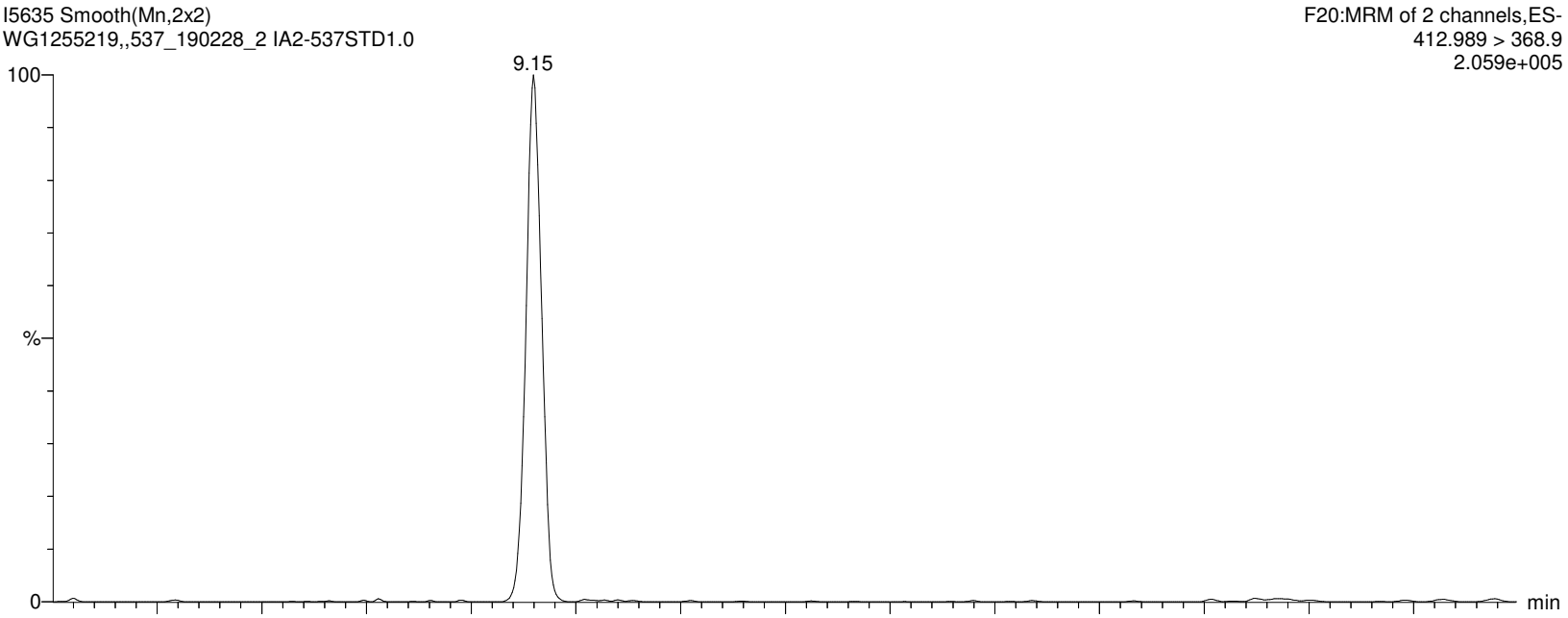


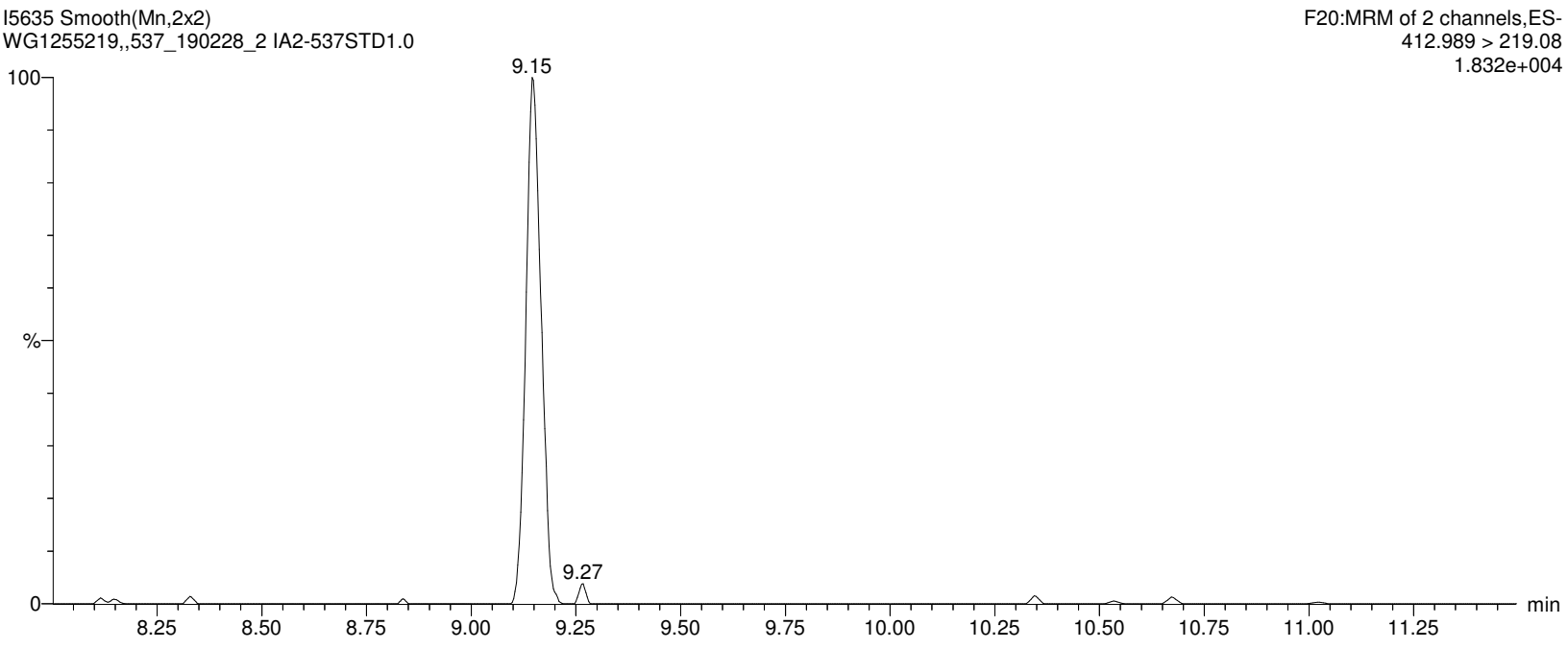
all concentration units in (ng/mL)

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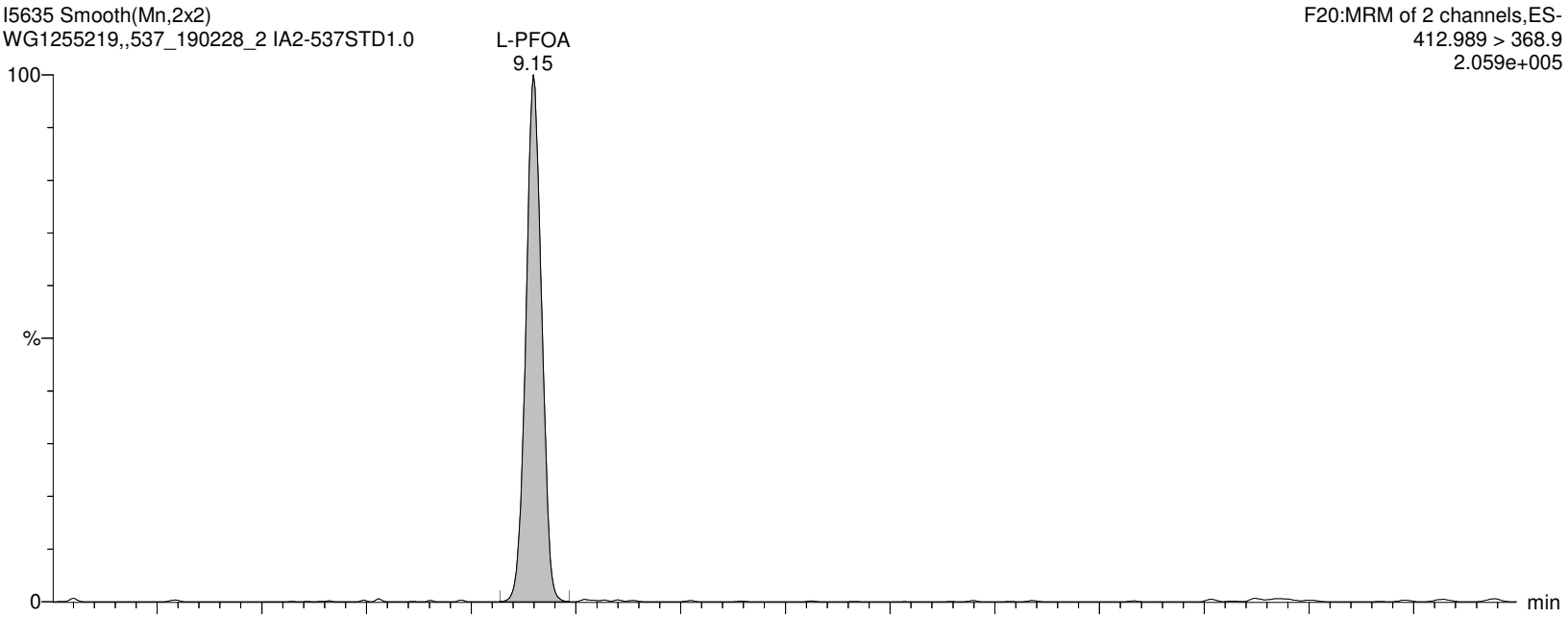


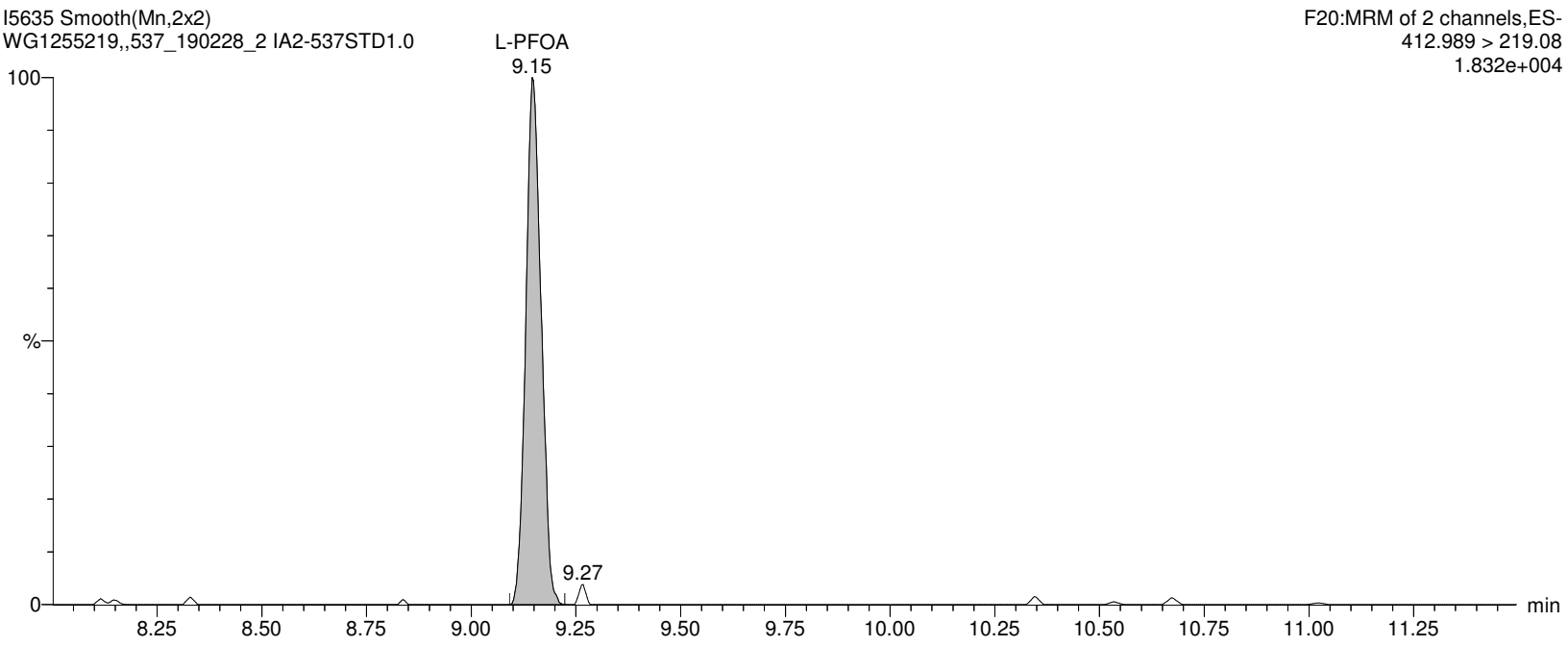
all concentration units in (ng/mL)

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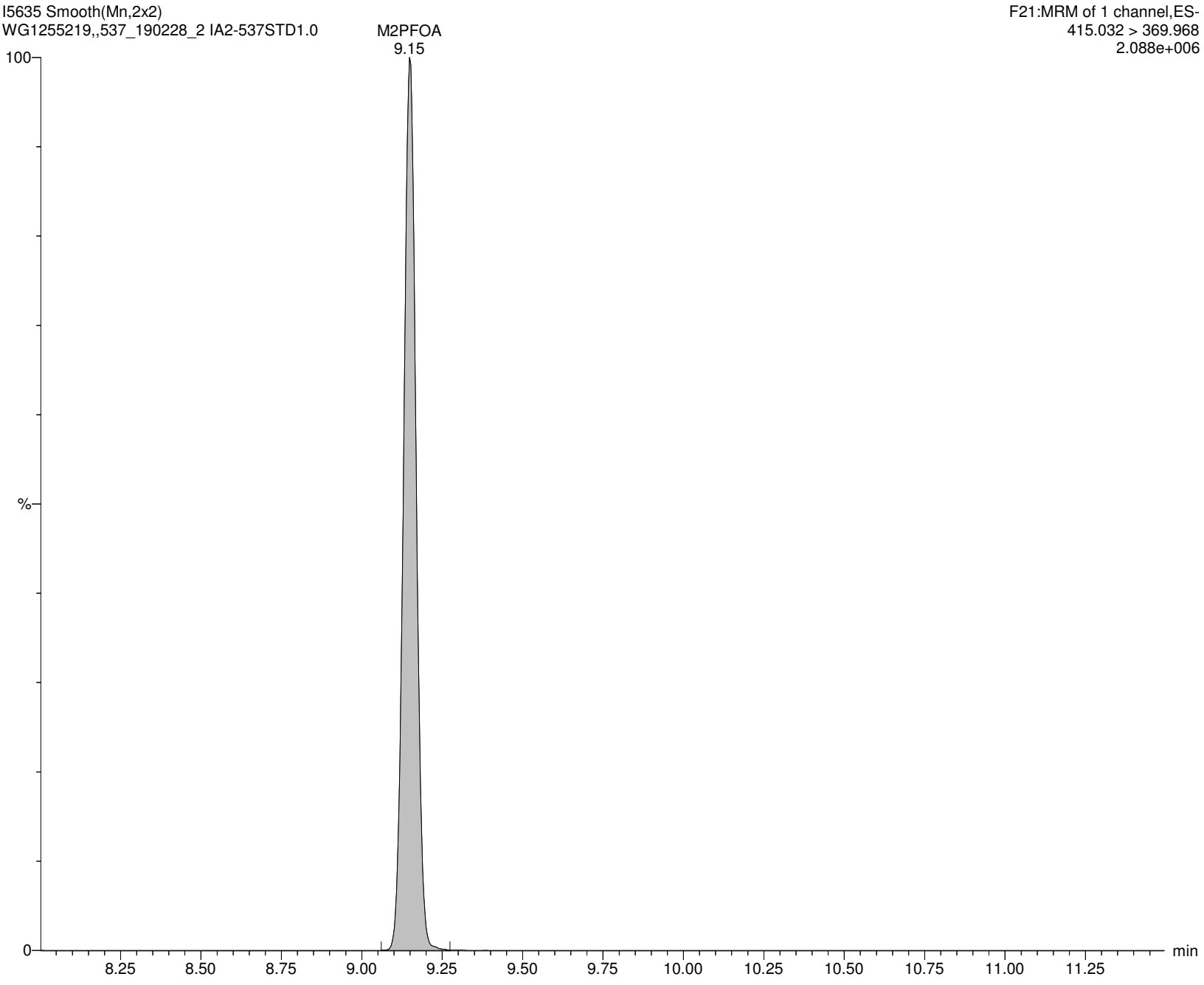


all concentration units in (ng/mL)

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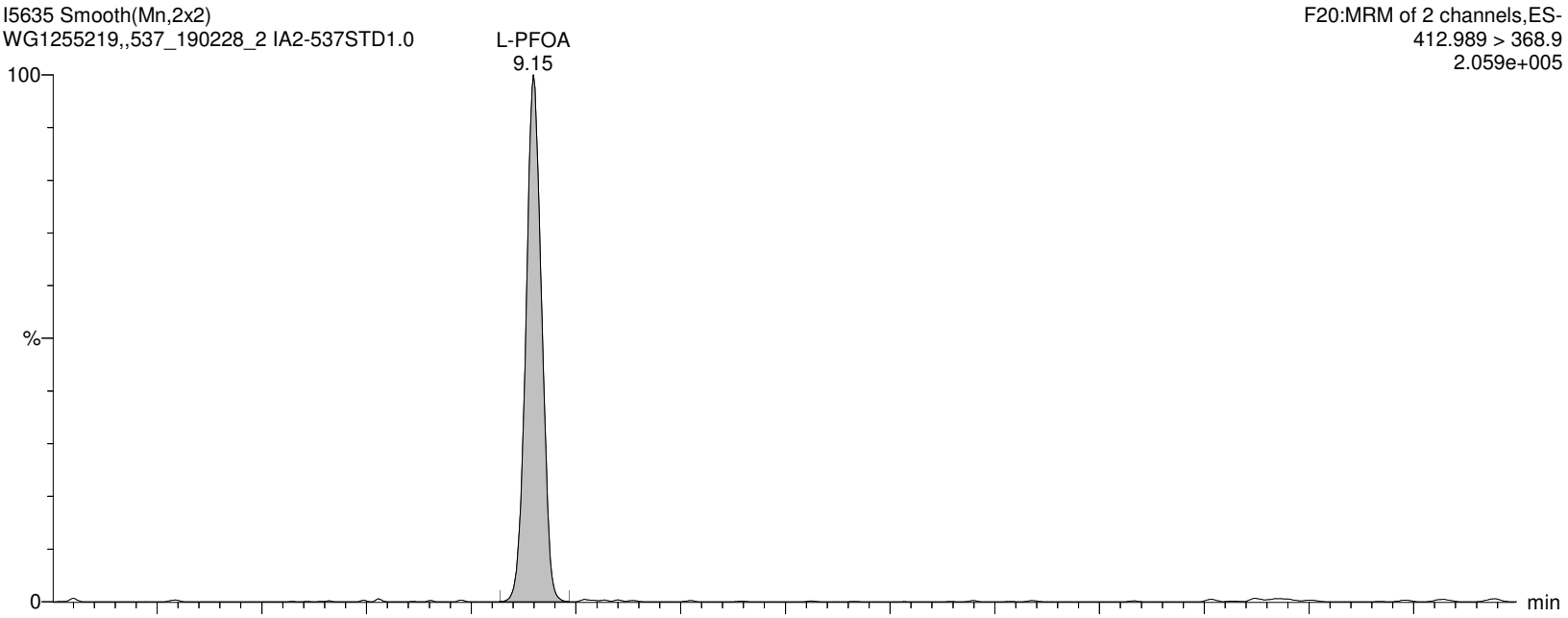


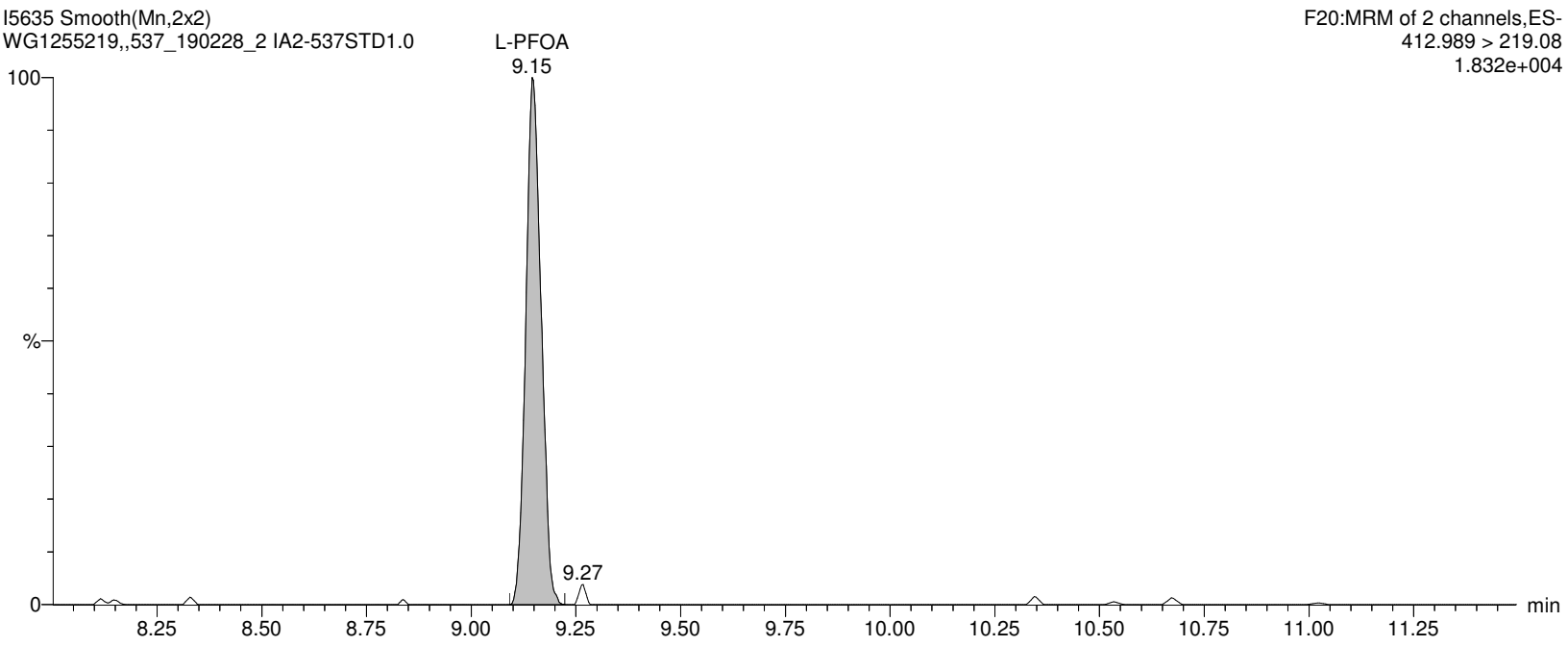
all concentration units in (ng/mL)

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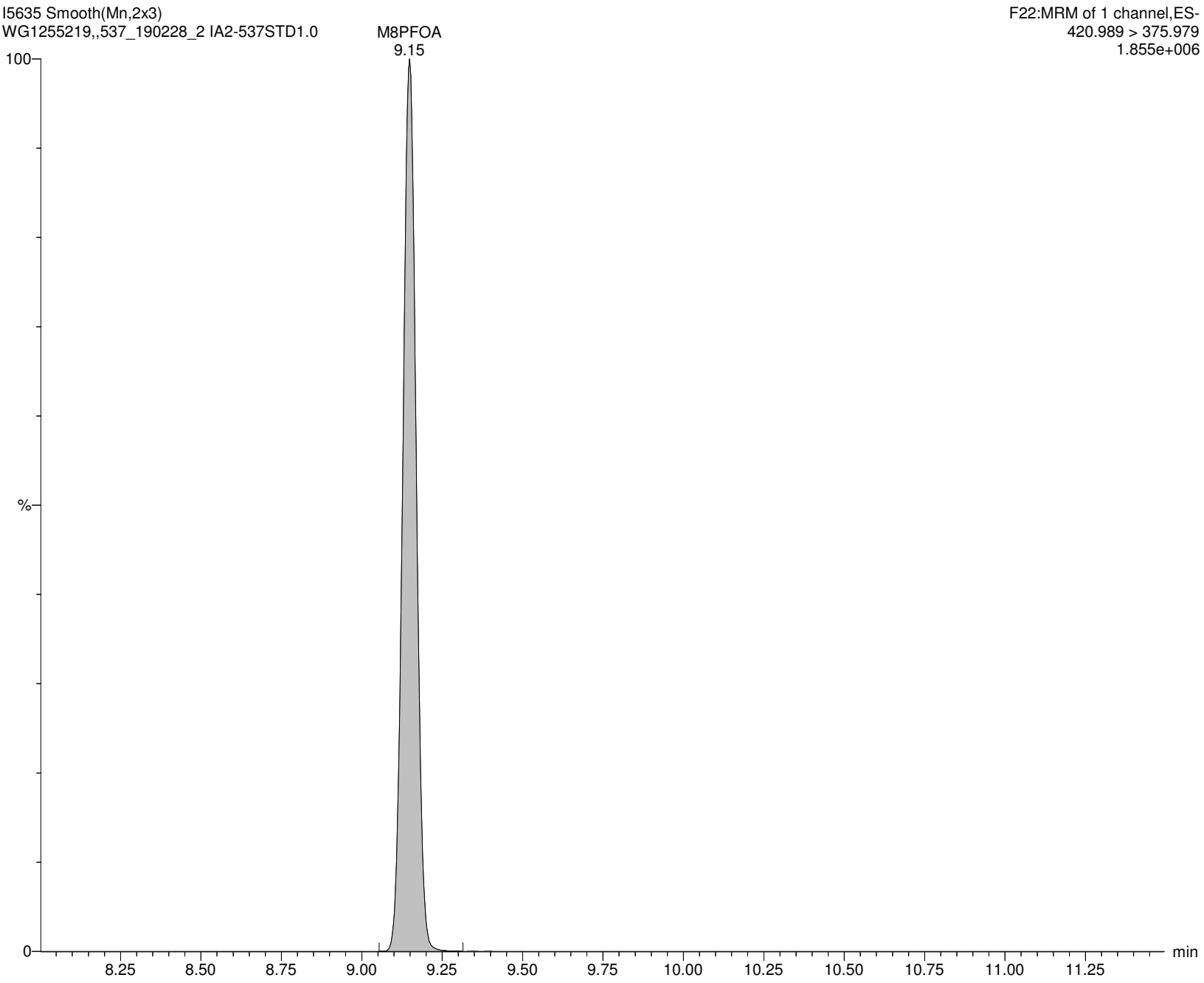


all concentration units in (ng/mL)

Alpha Analytical Inc.
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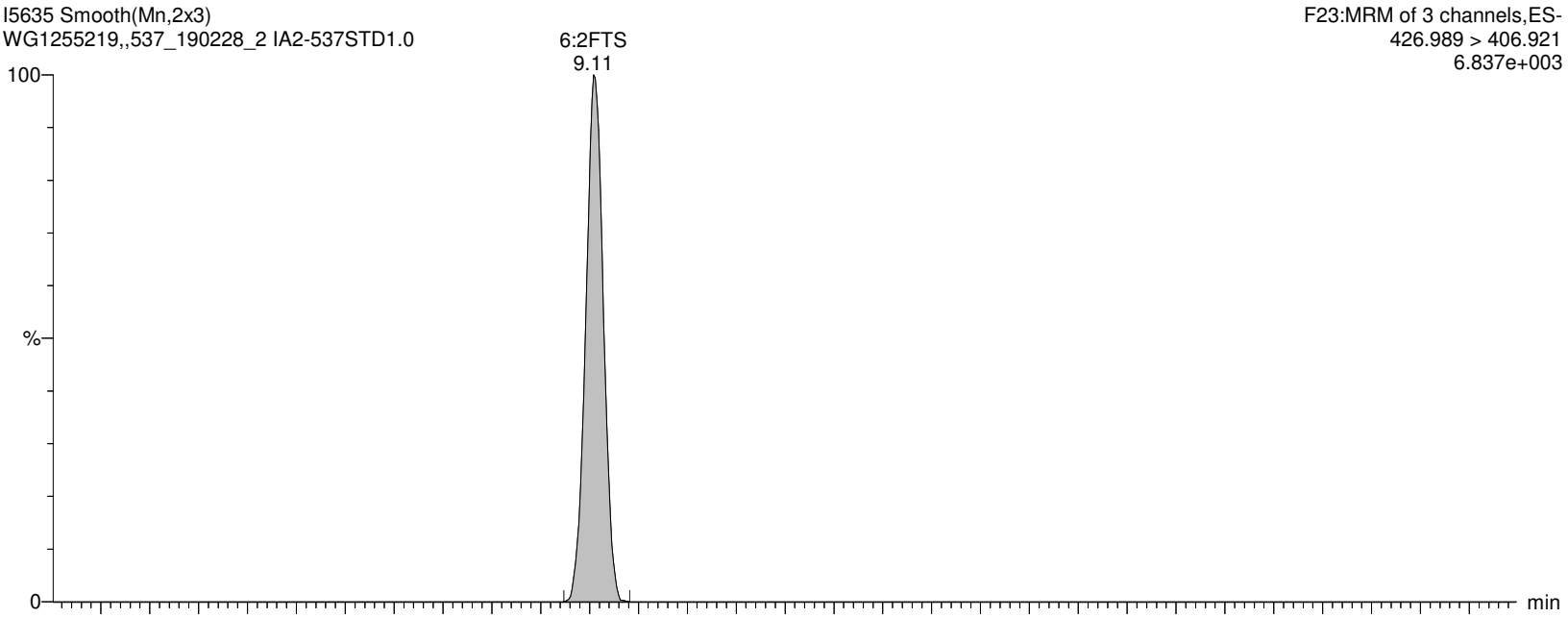


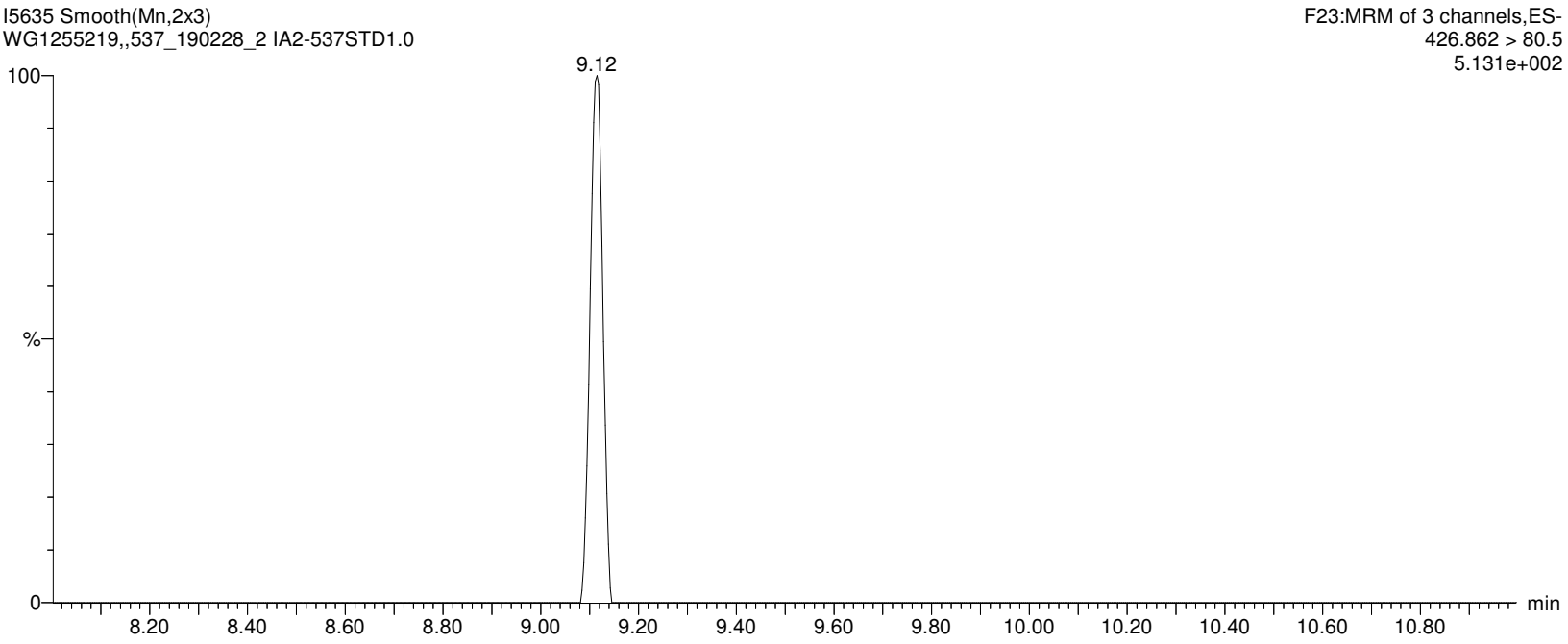
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6:2FTS



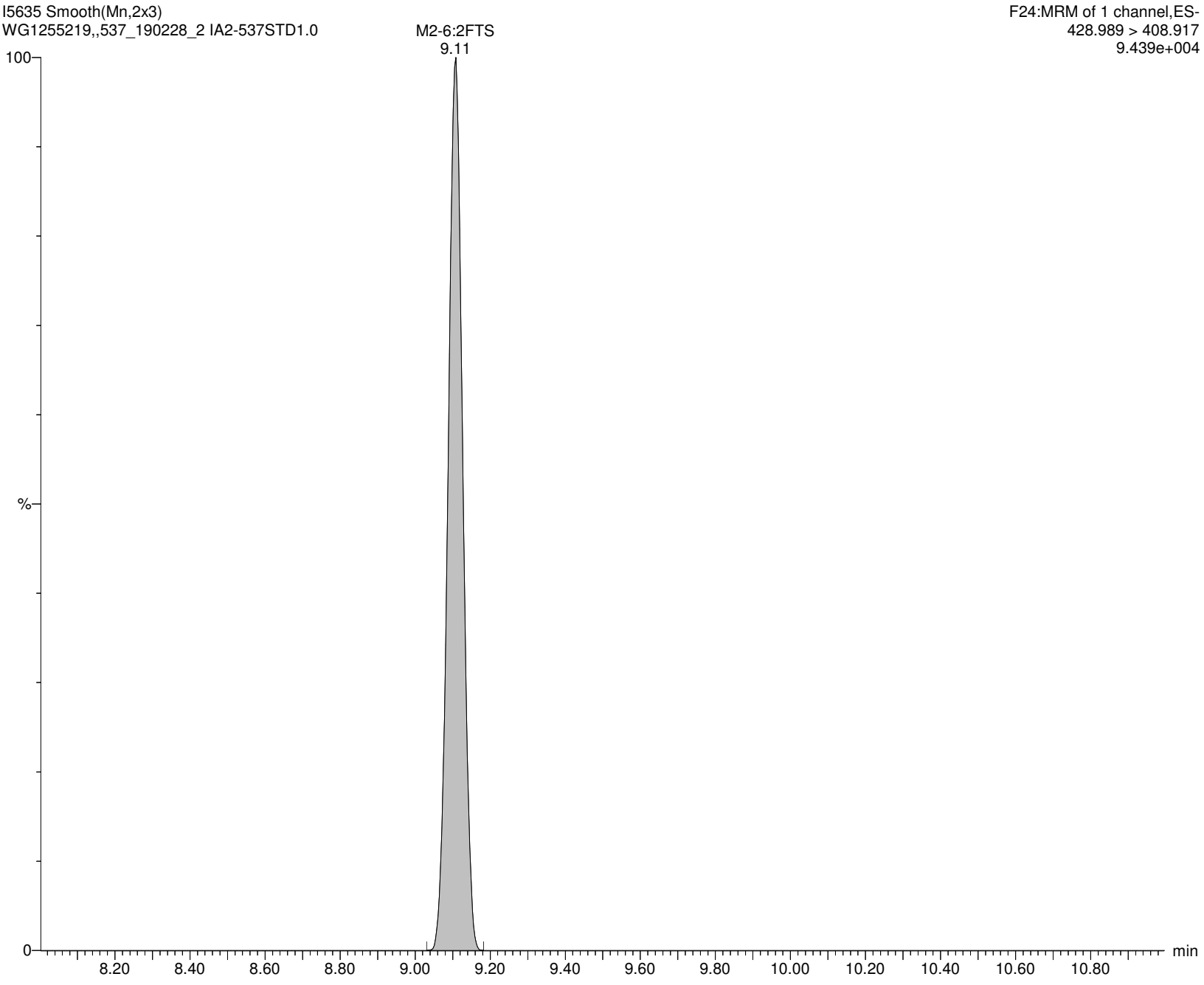


all concentration units in (ng/mL)

Alpha Analytical Inc.
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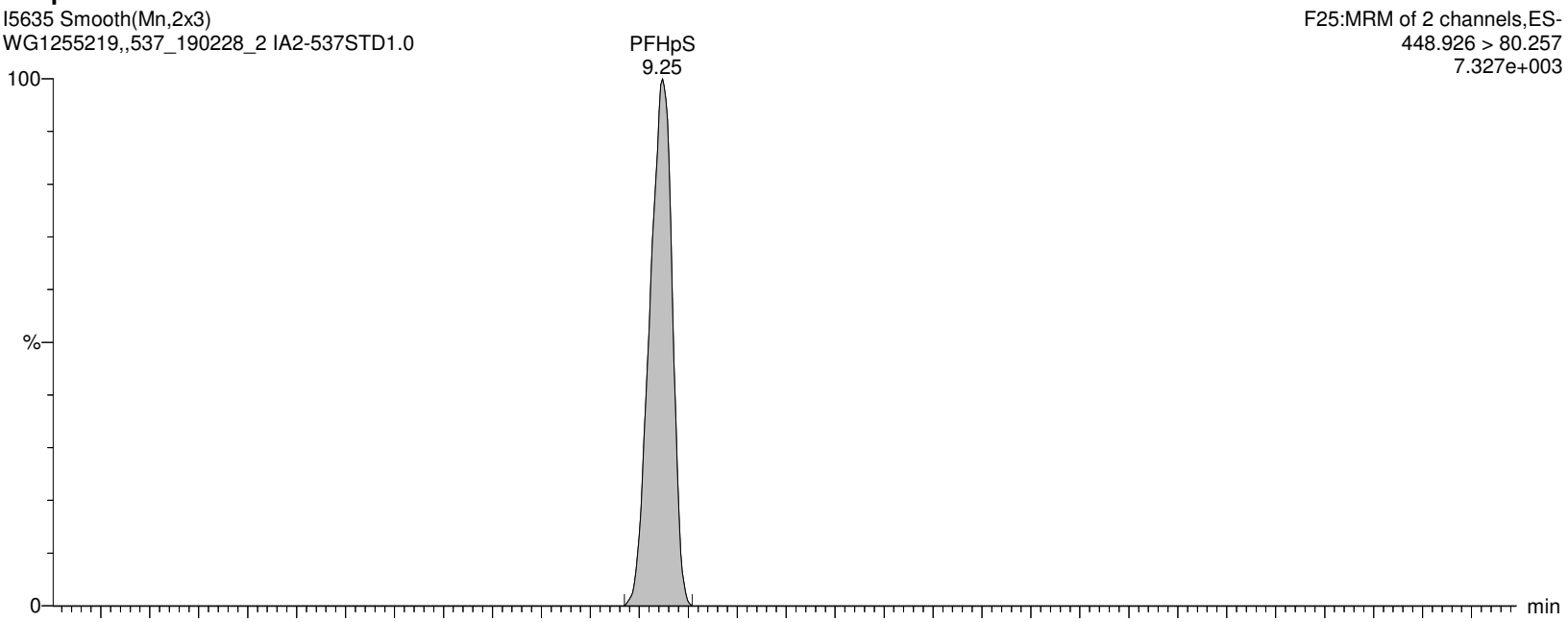


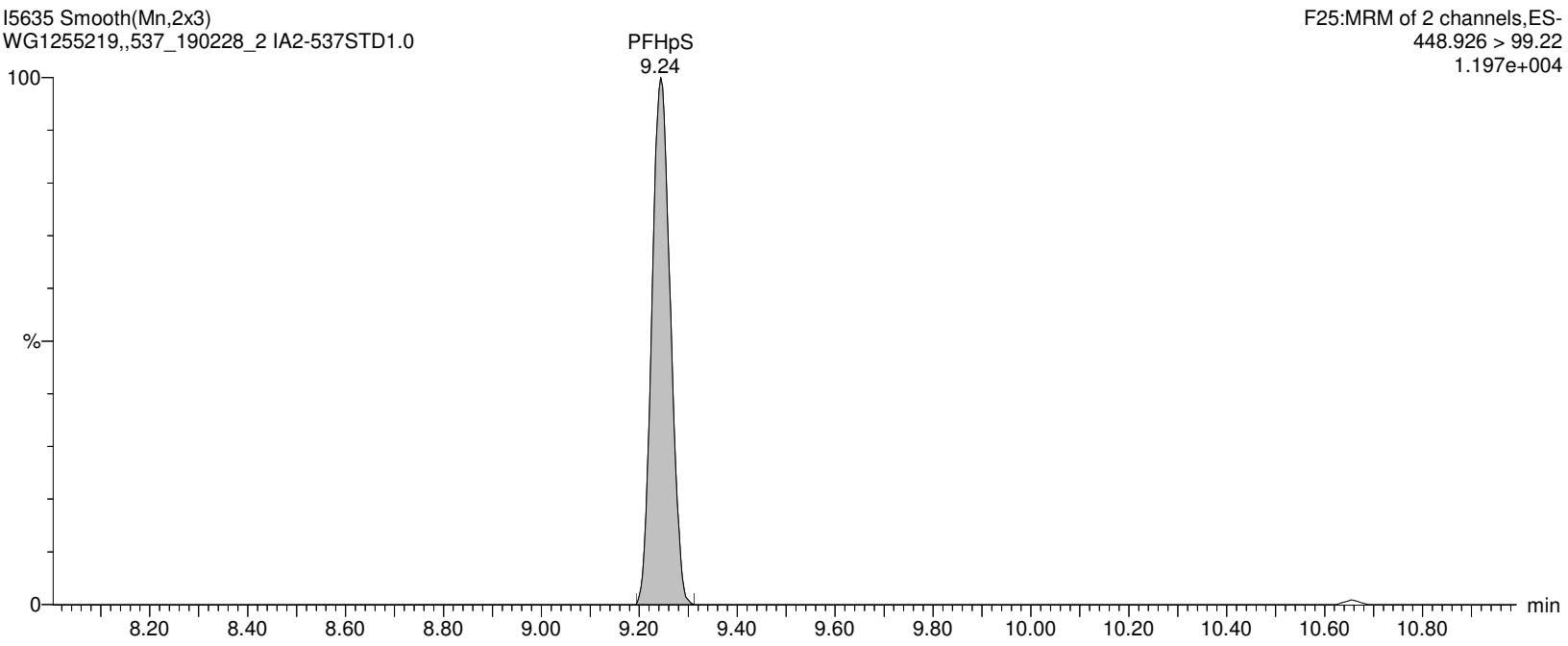
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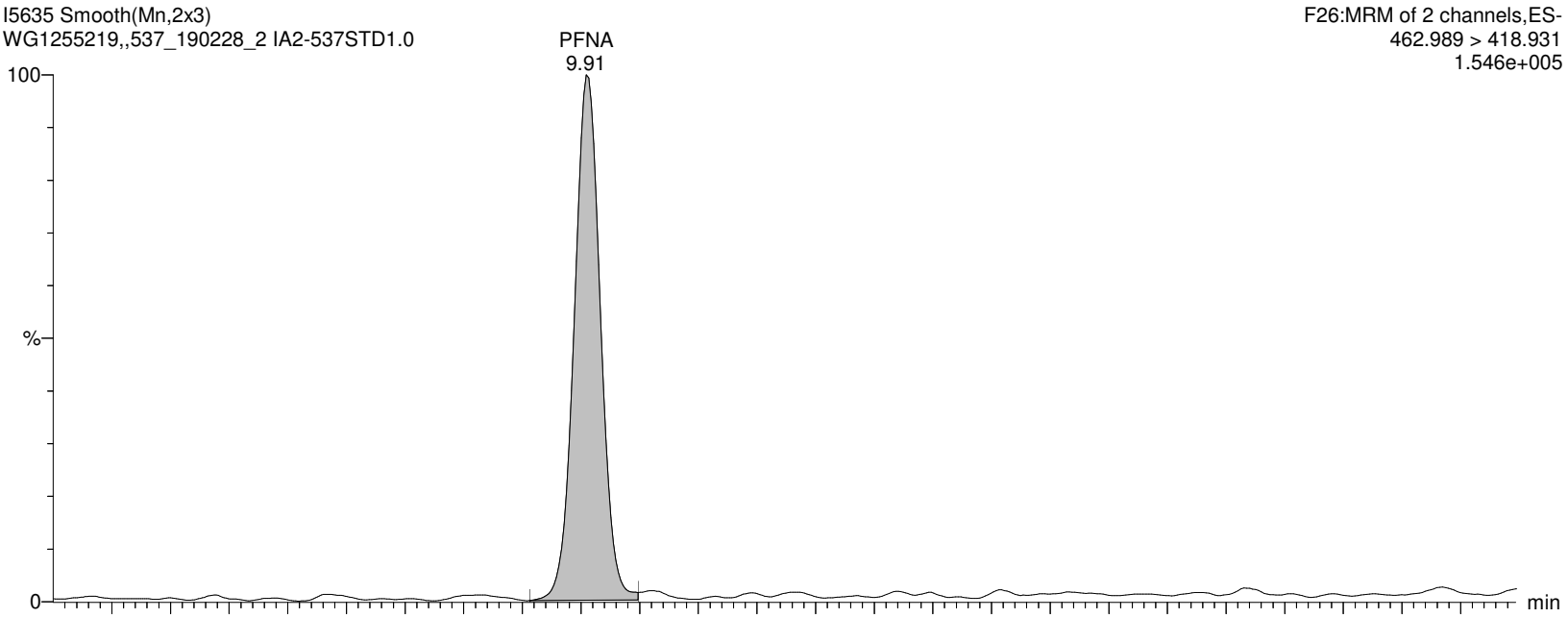


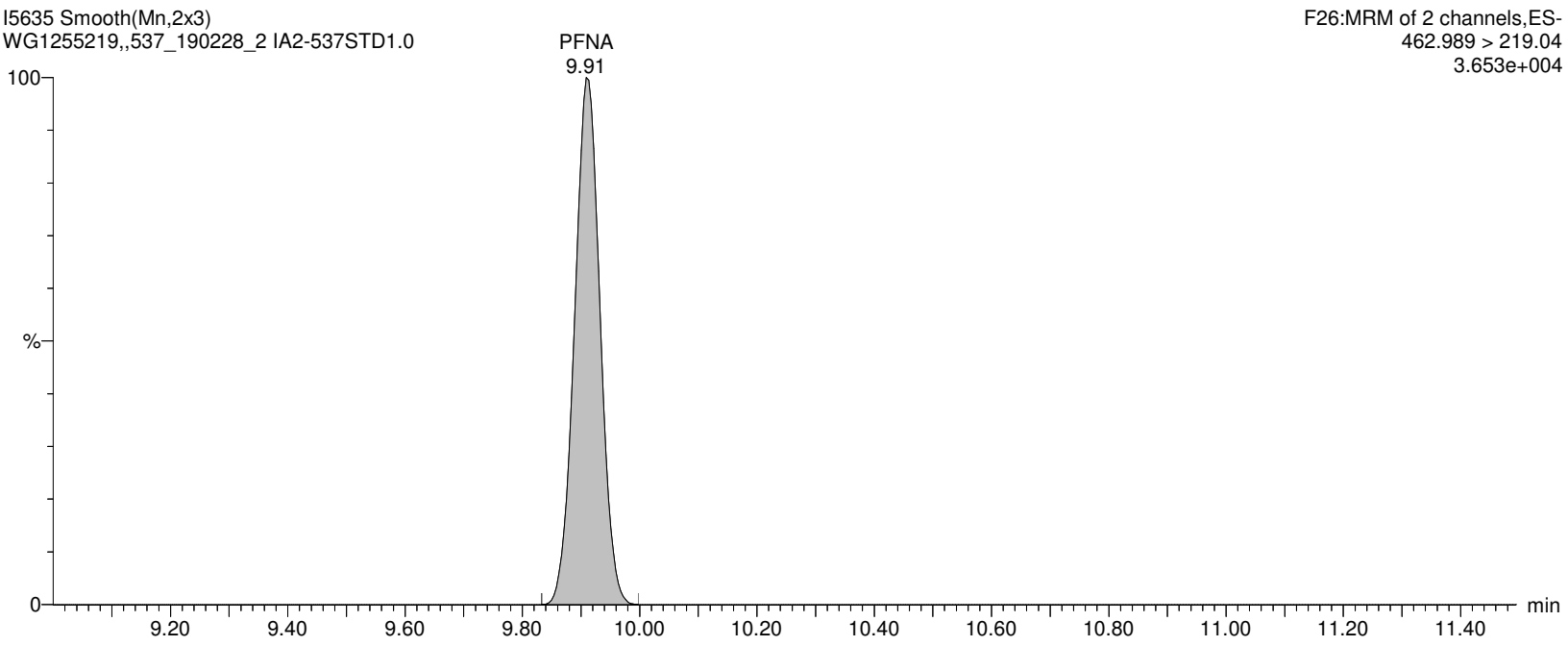
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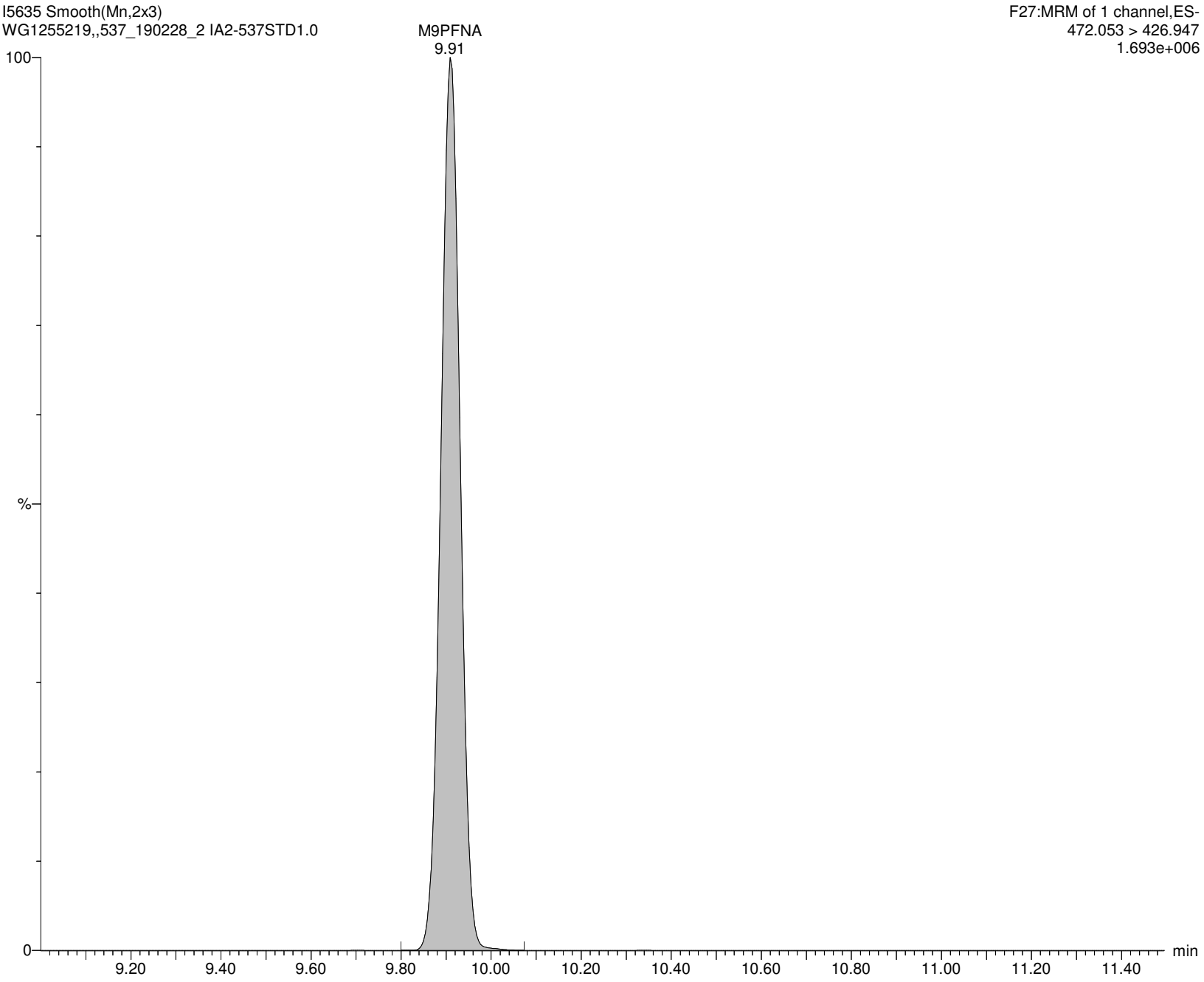


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M9PFNA

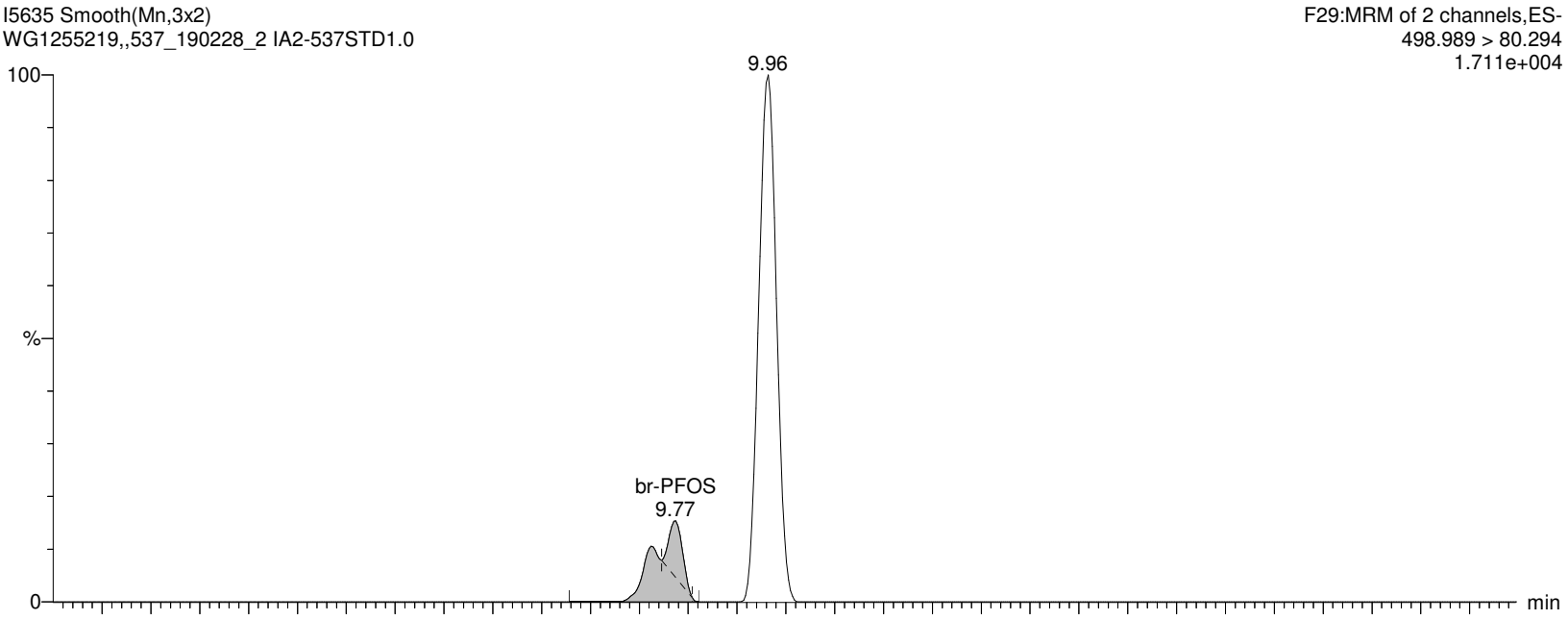


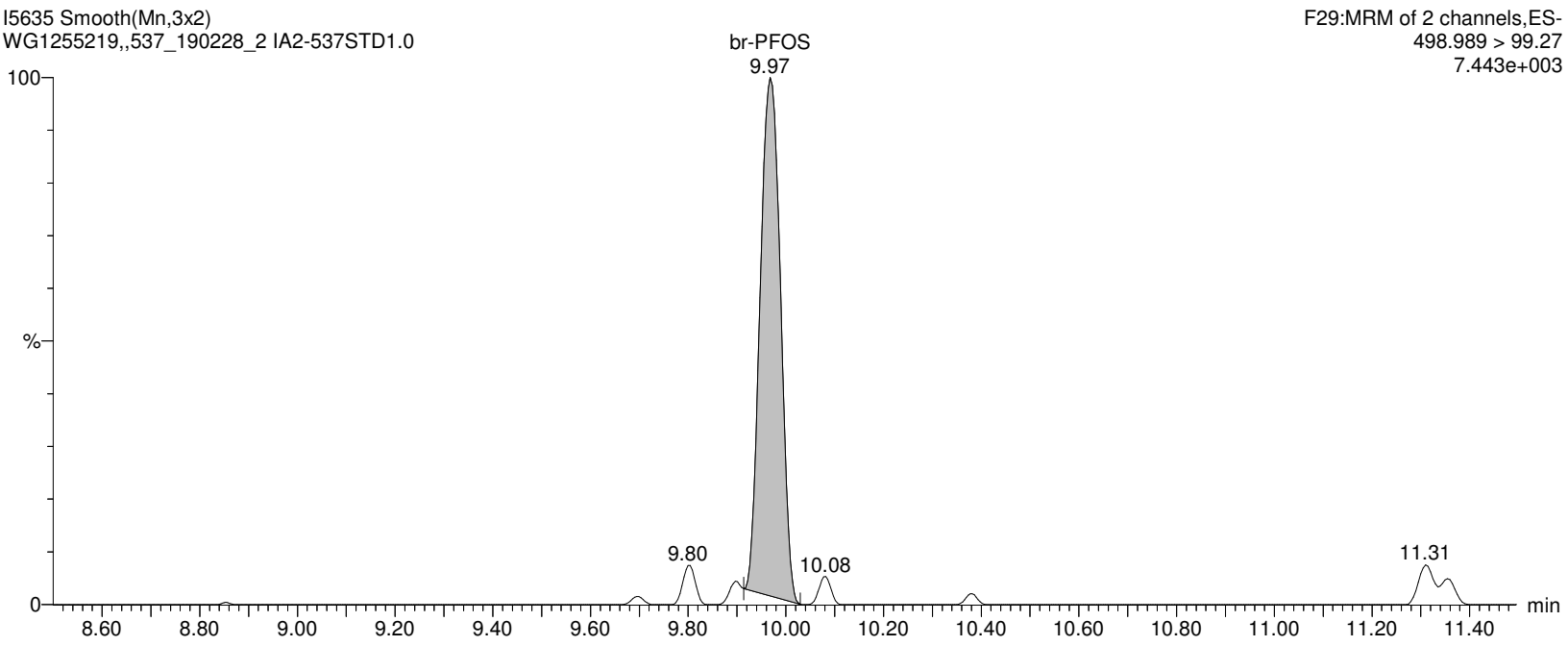
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:32 Eastern Daylight Time

Name: I5635
ID: IA2-537STD1.0
Date: 01-Jul-2019
Time: 18:13:58
Description: WG1255219,,537_190228_2
User: LCMS02:JW
Vial: 1:A,3
Instrument: XEVO-TQSmicro#QEB0050
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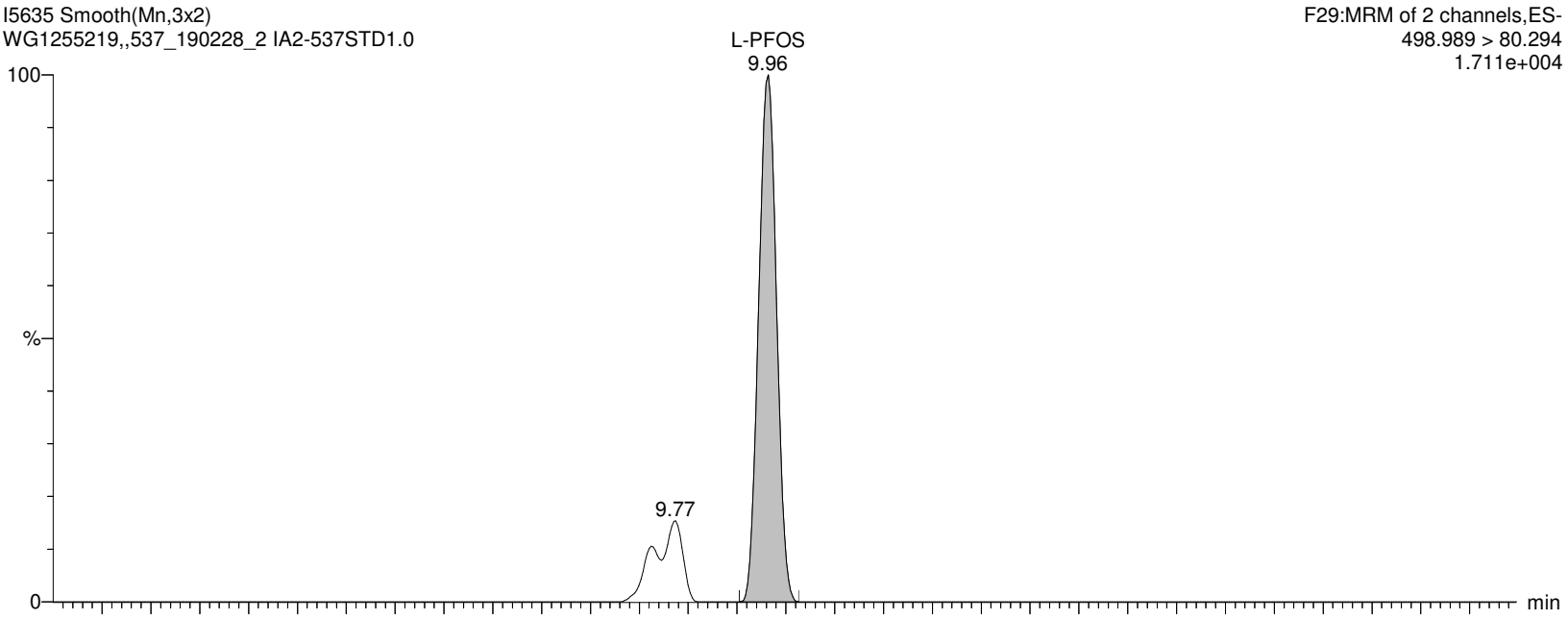


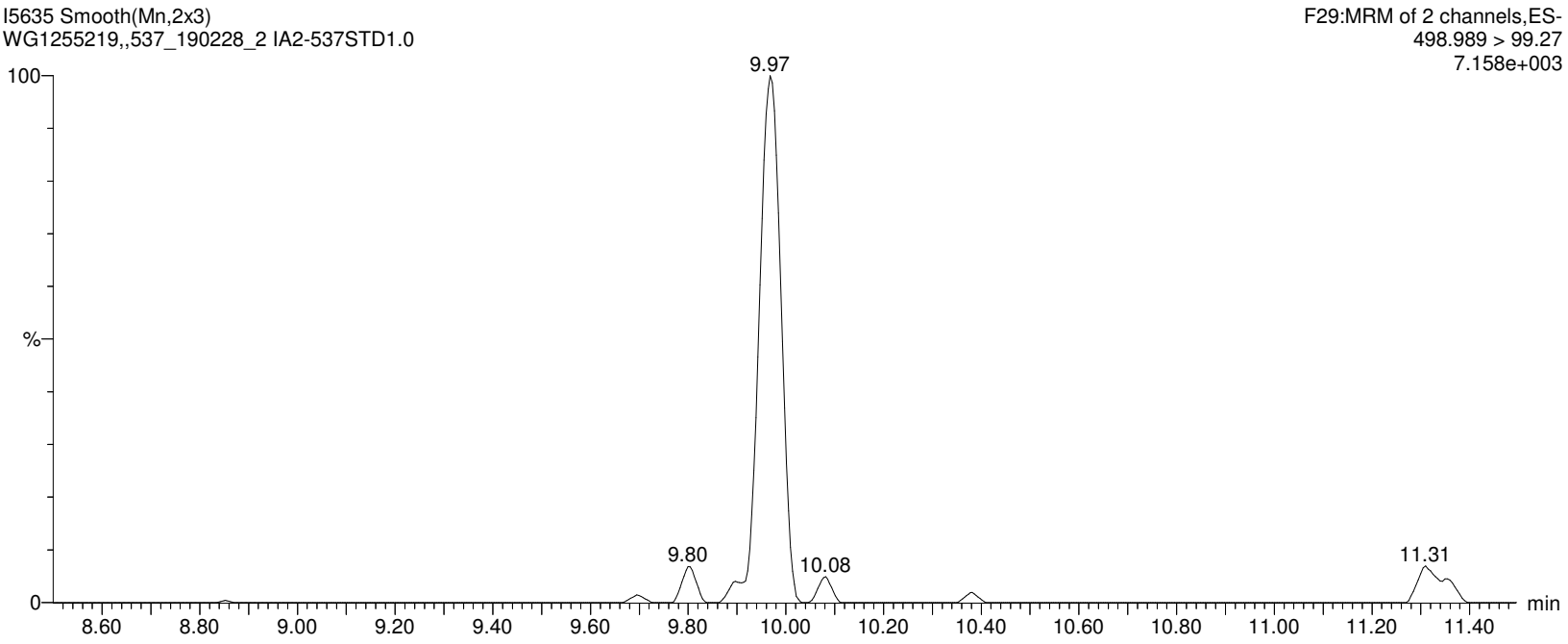
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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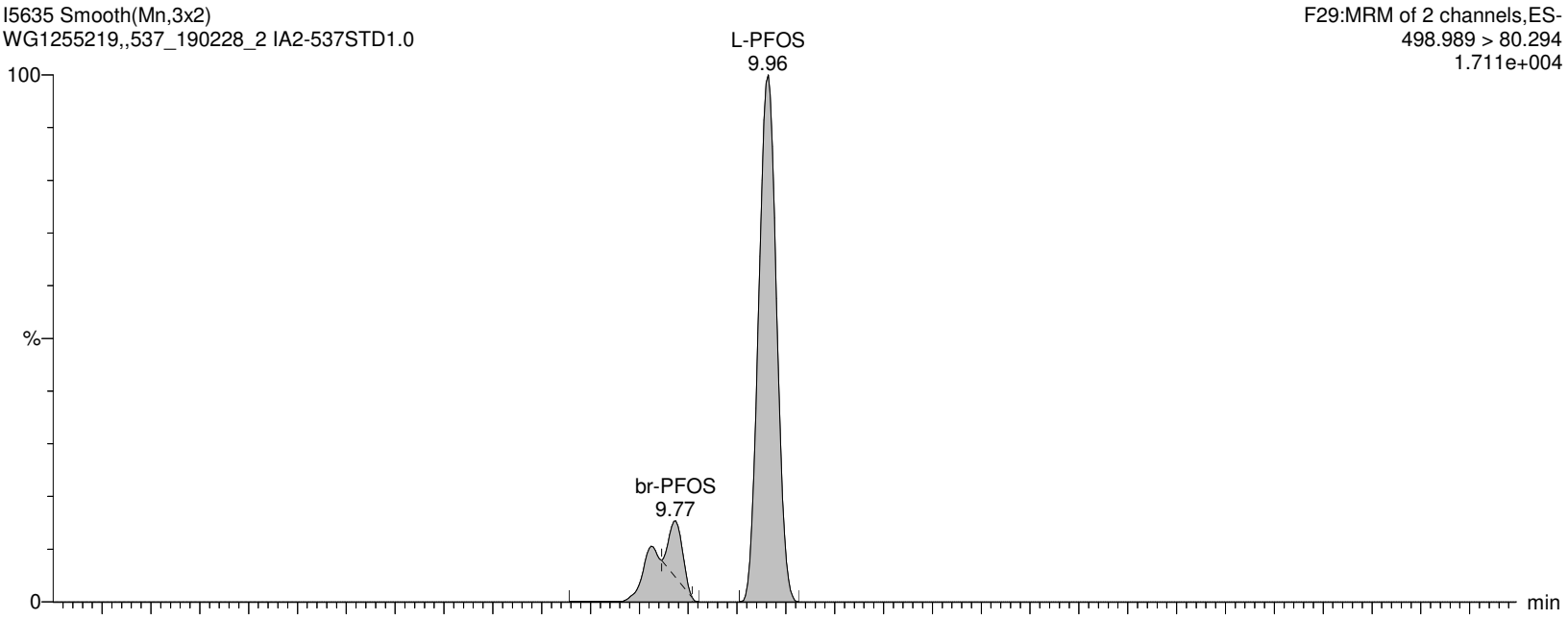


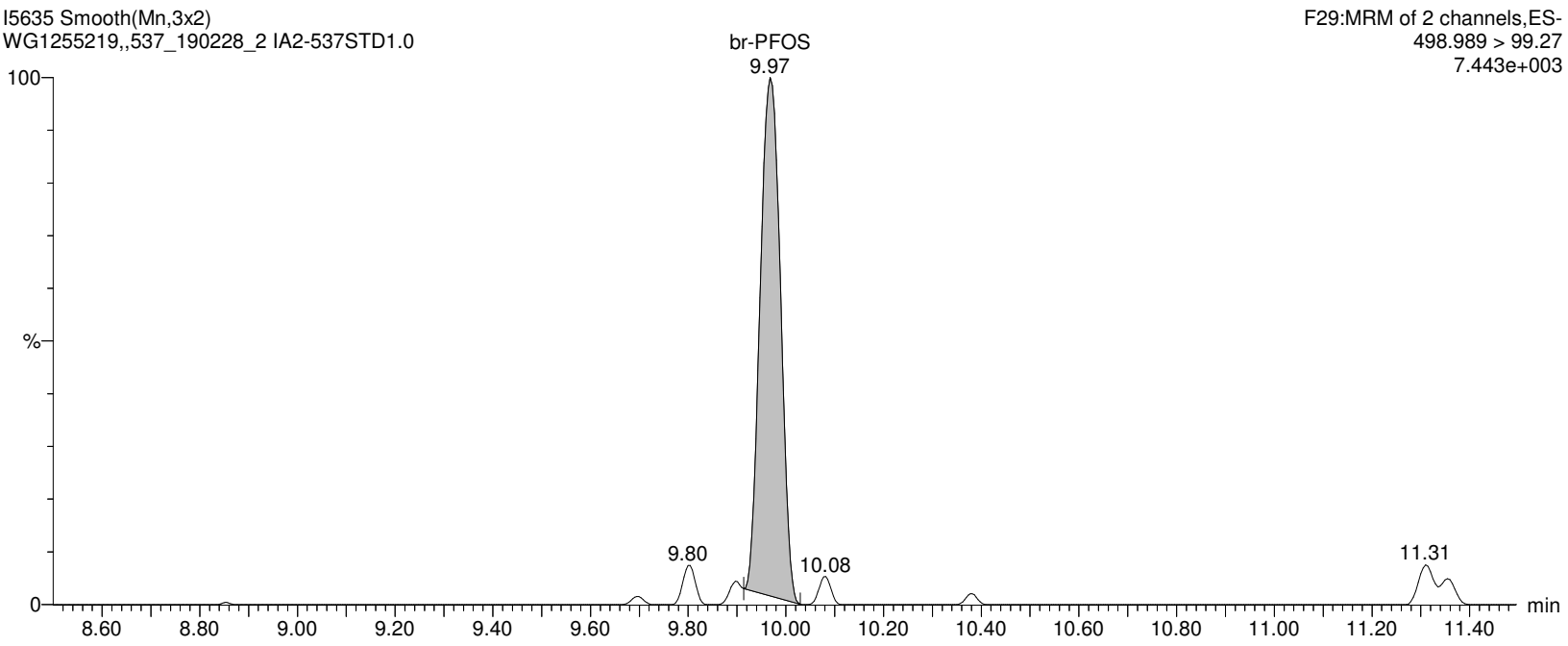
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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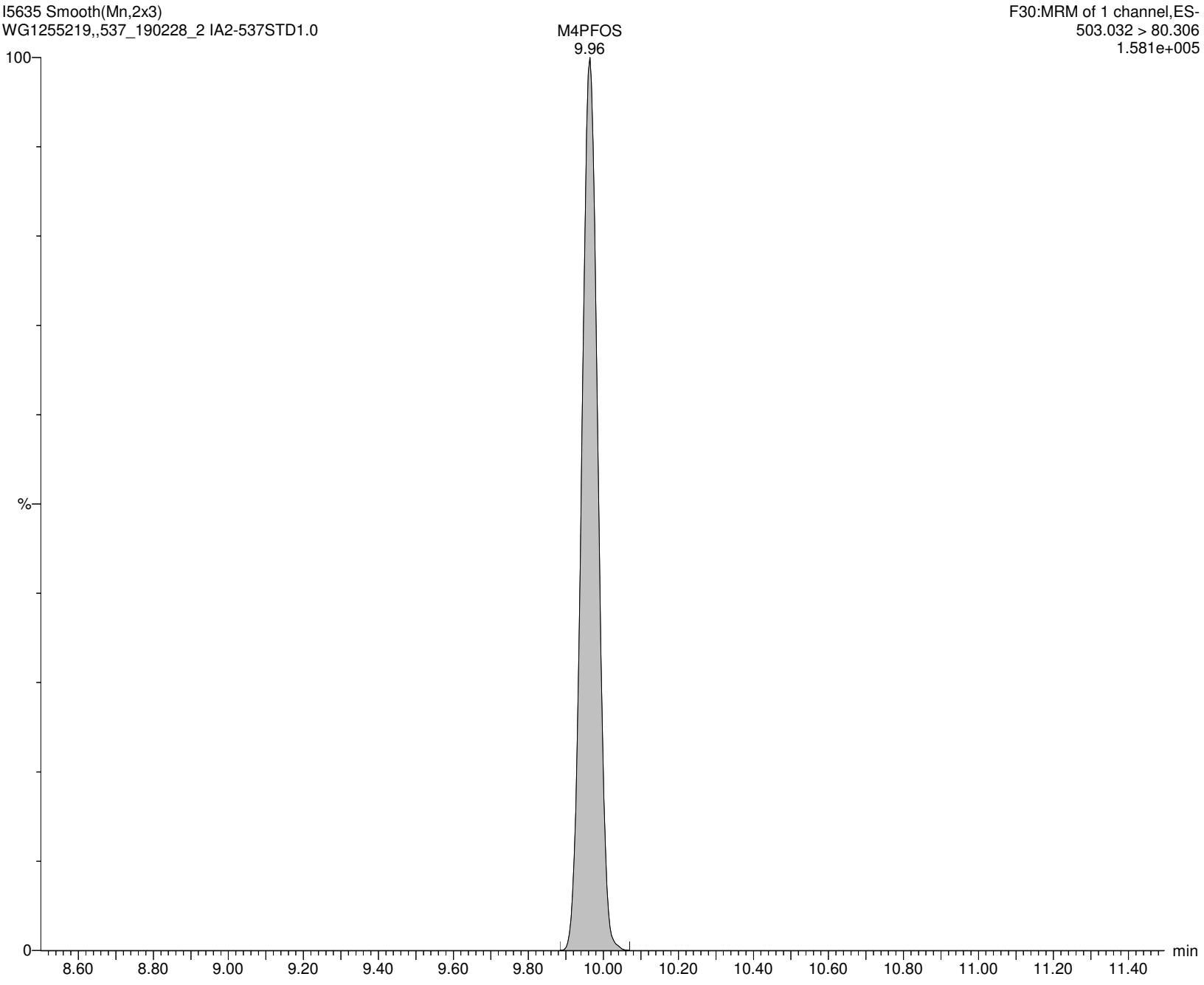


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
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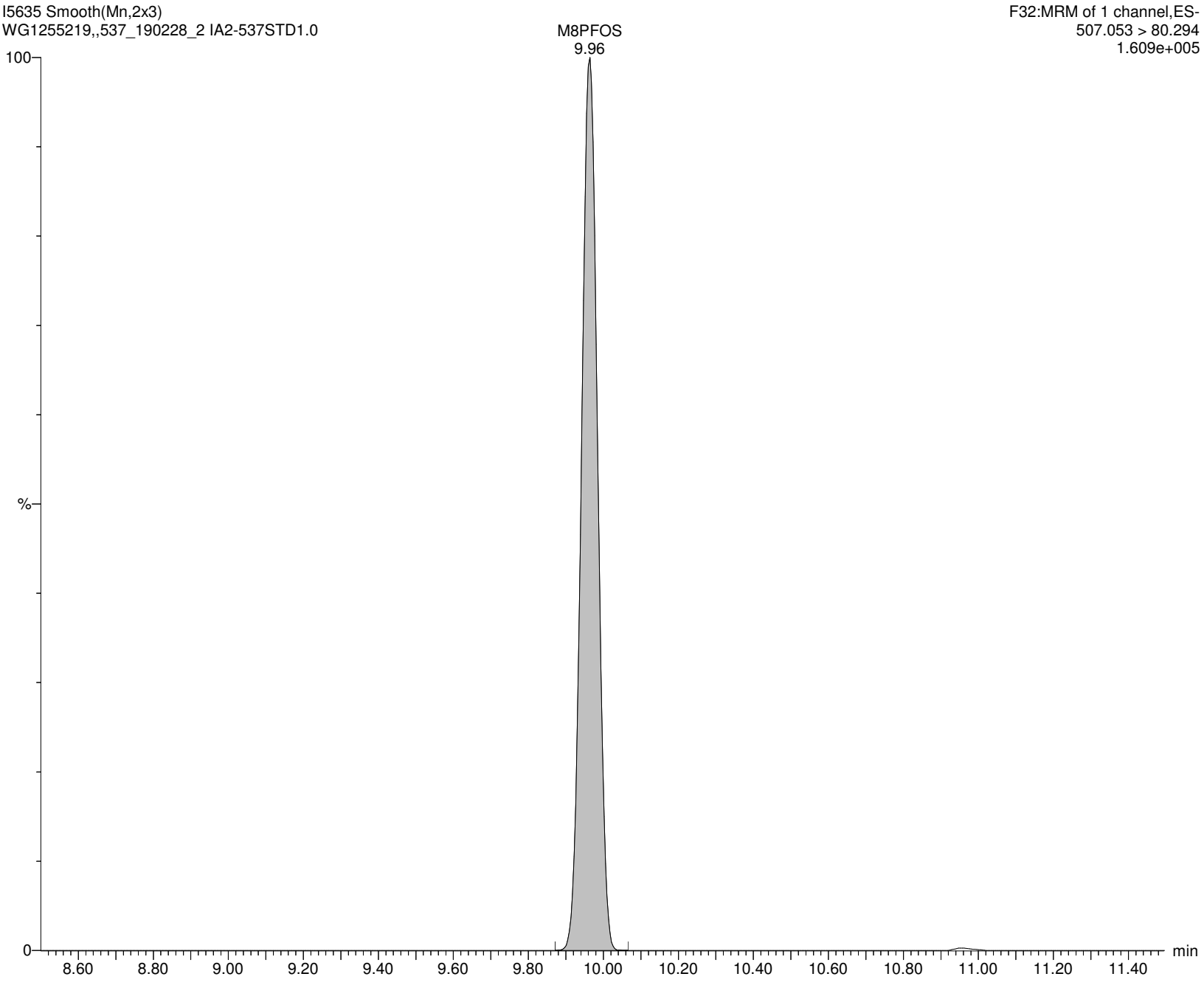


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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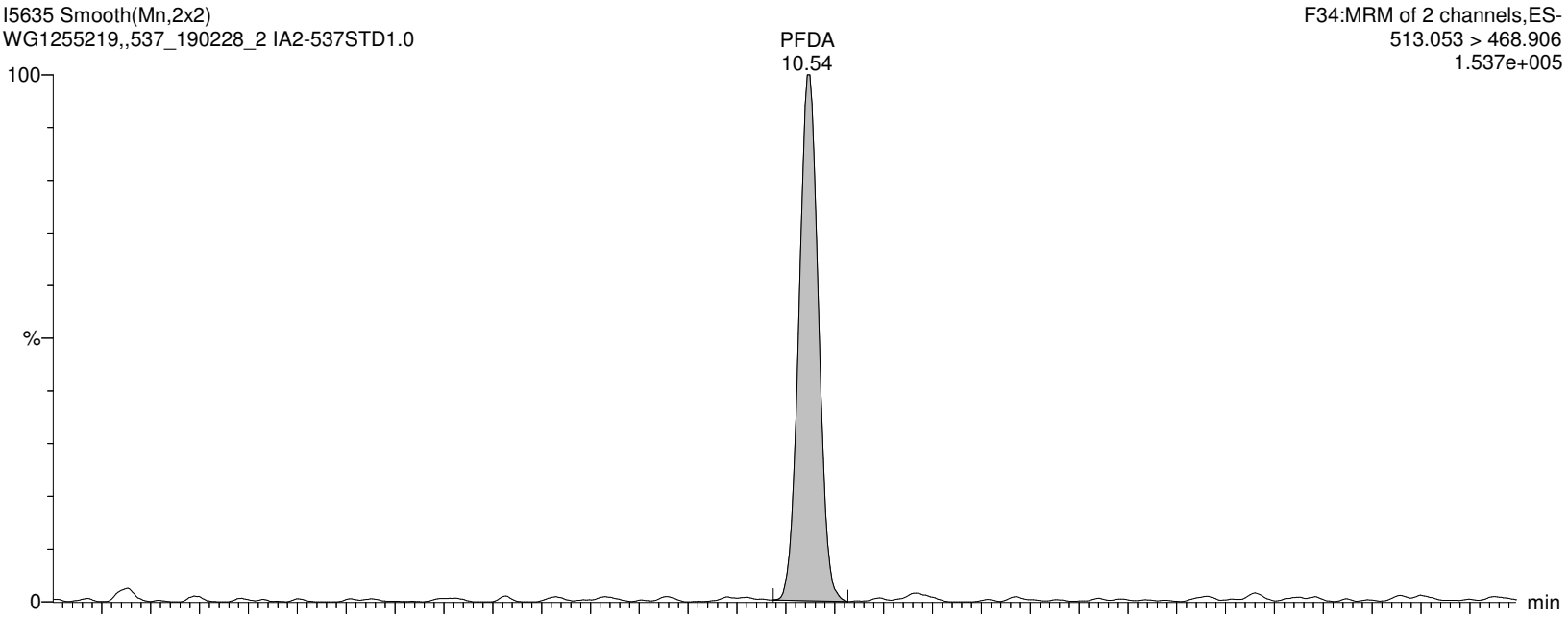


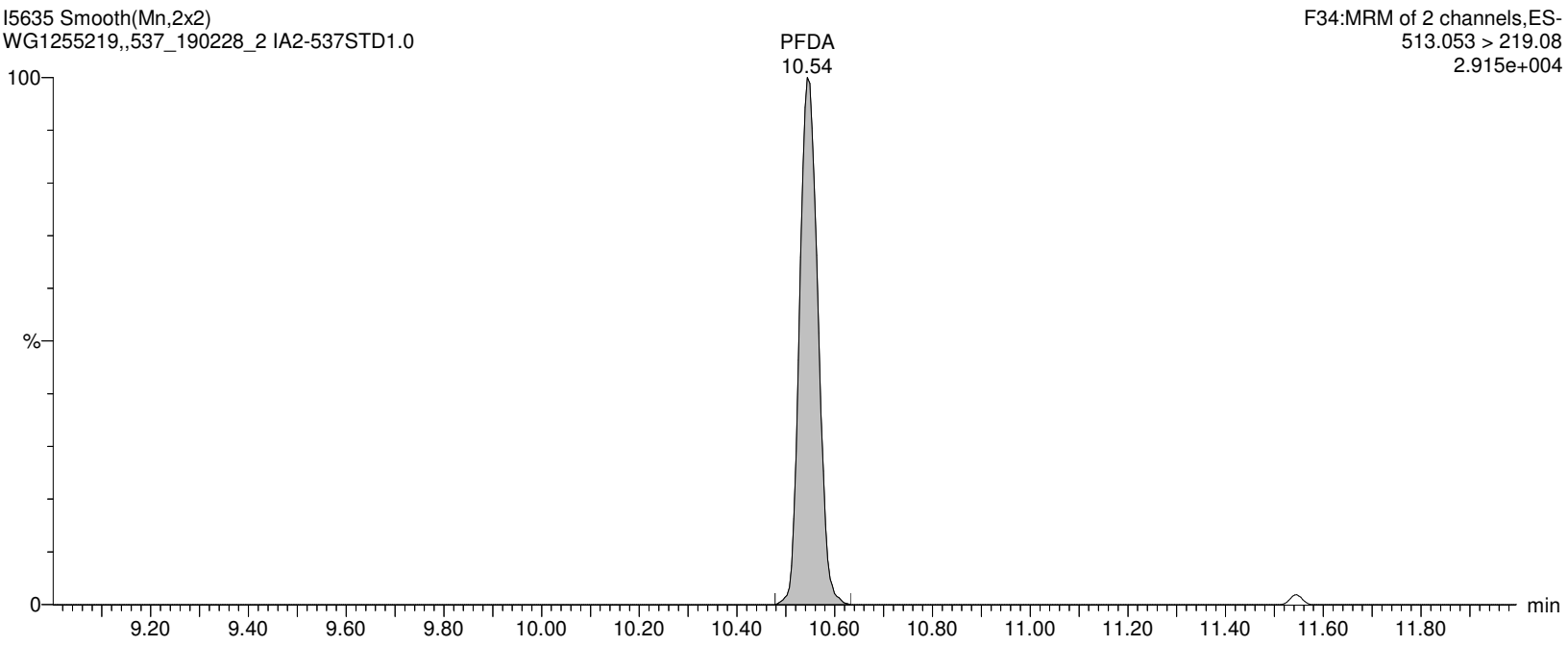
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
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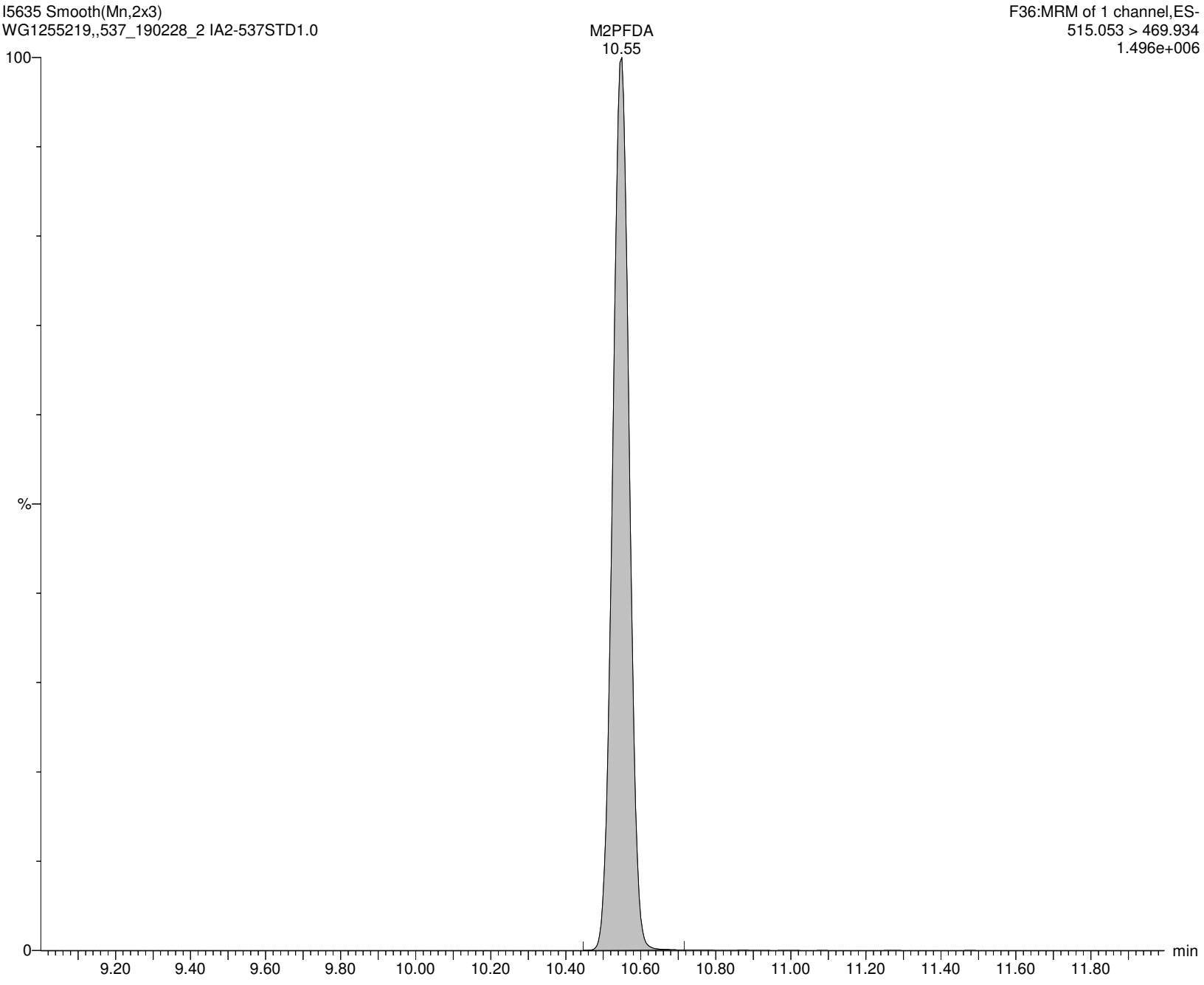


all concentration units in (ng/mL)

Alpha Analytical Inc.
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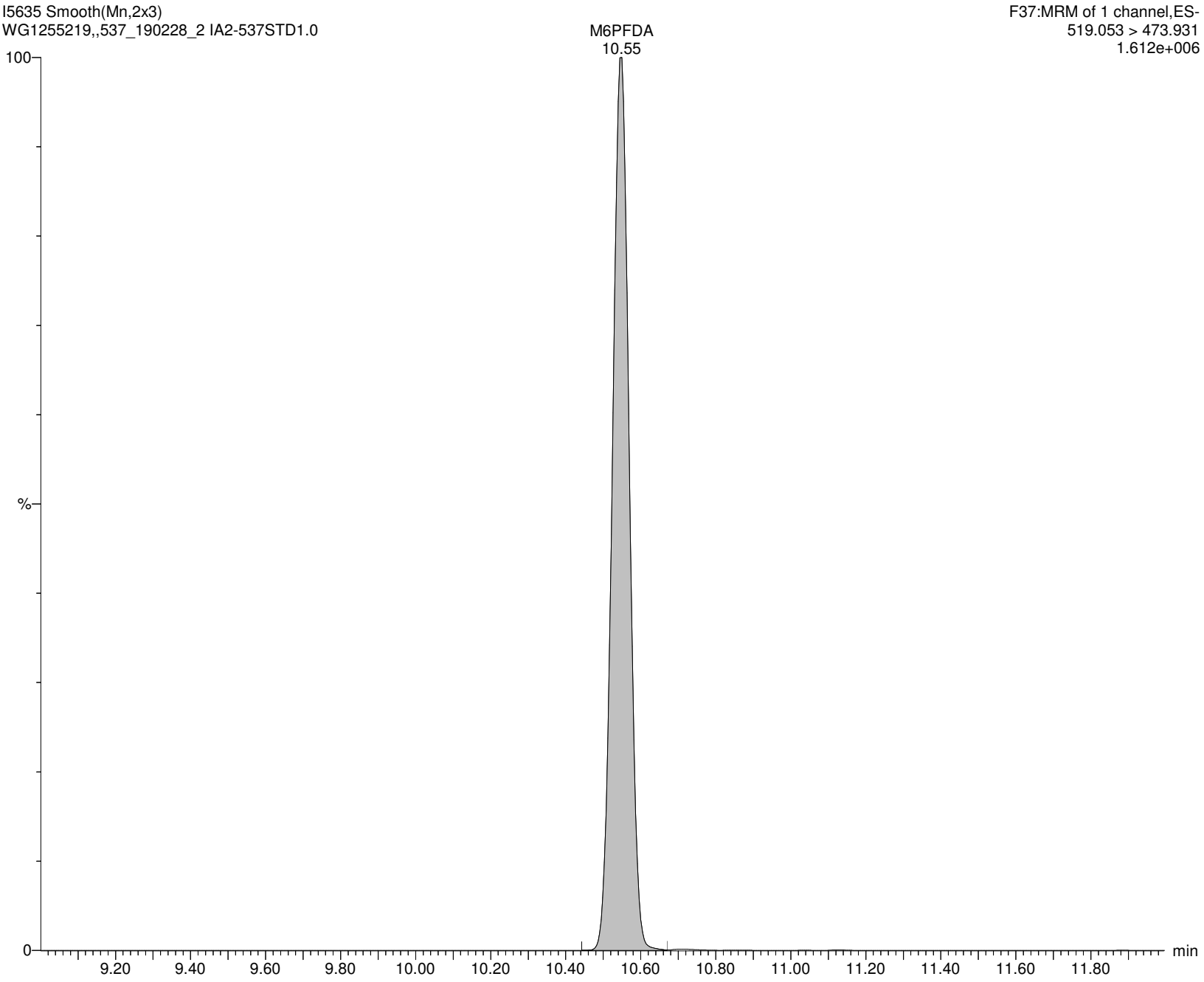


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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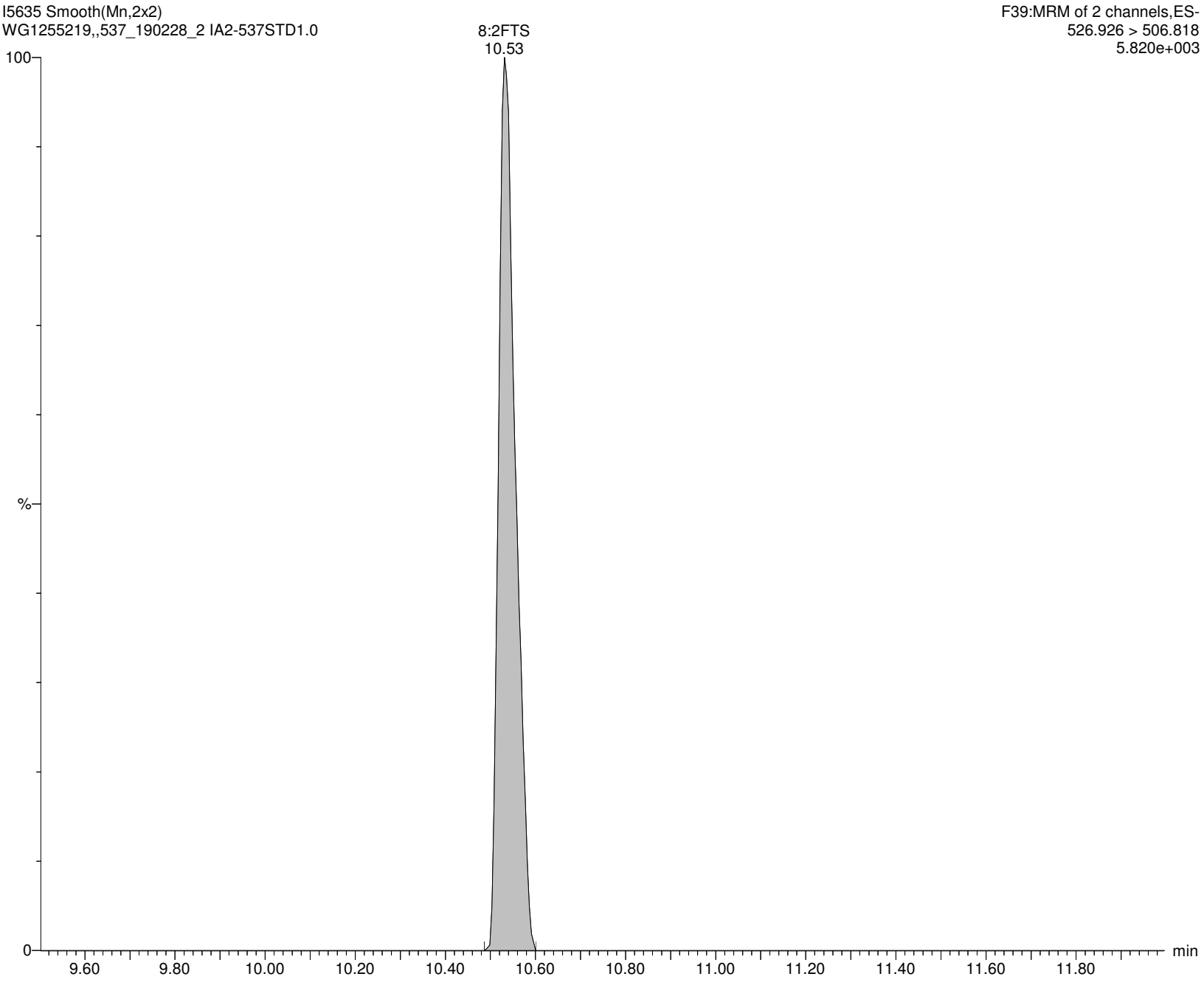


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Date: 01-Jul-2019
Time: 18:13:58
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8:2FTS

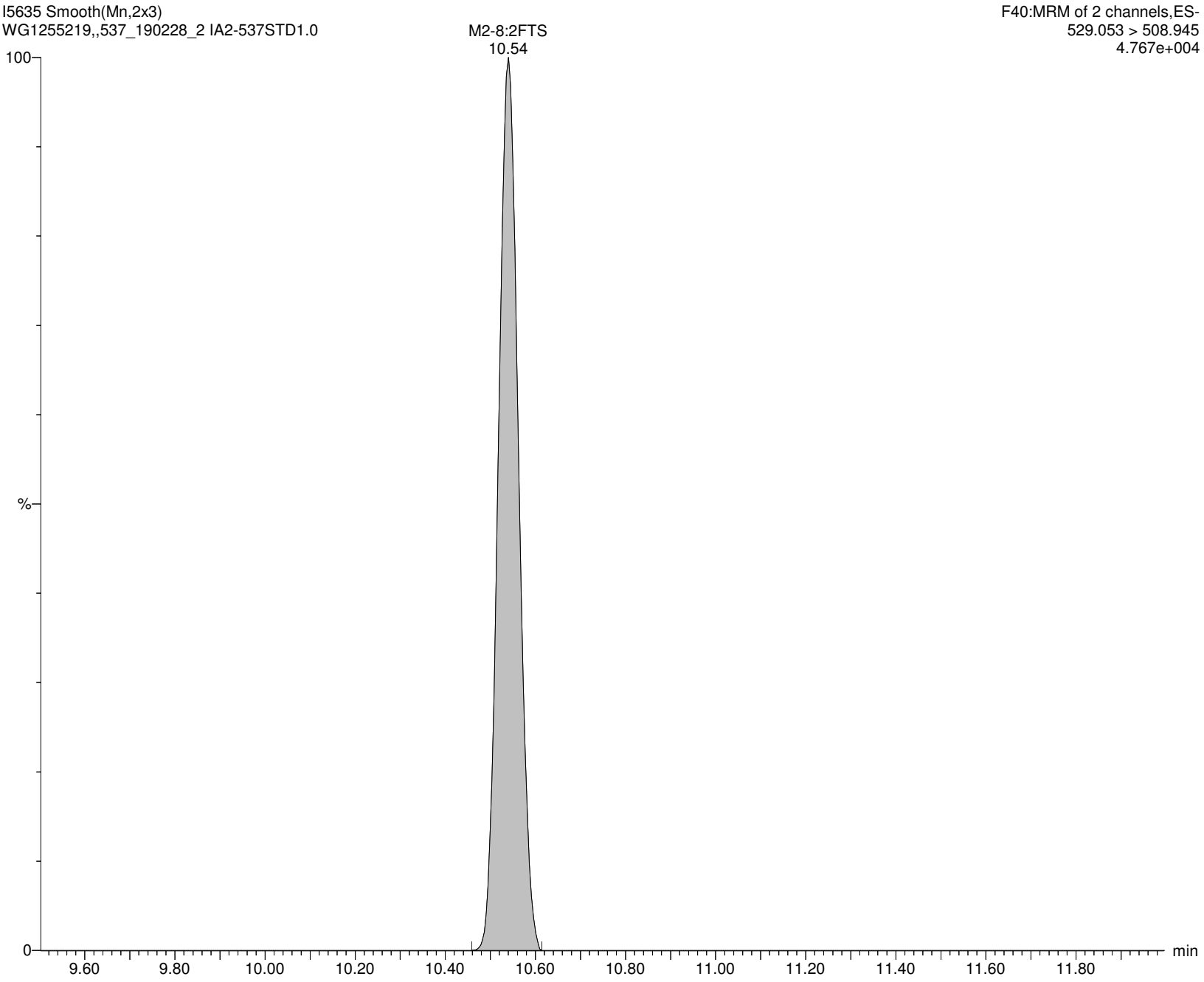


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Date: 01-Jul-2019
Time: 18:13:58
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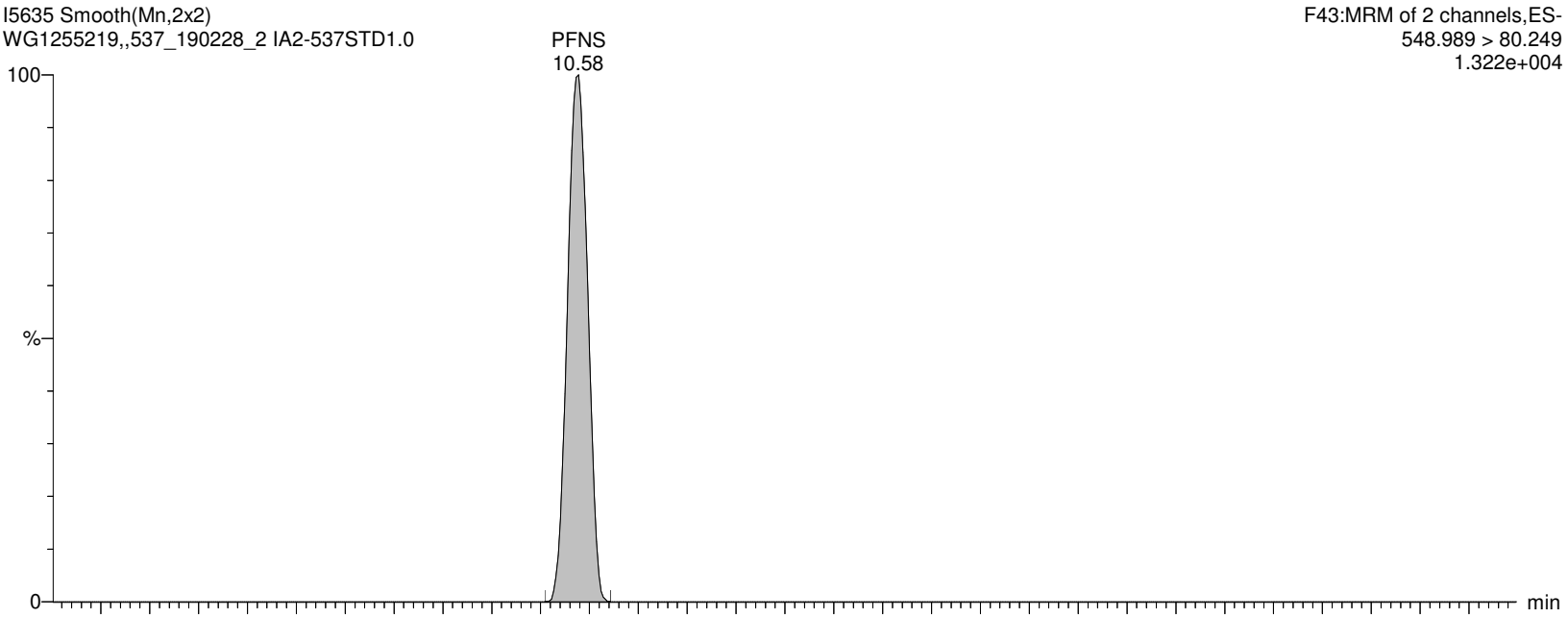


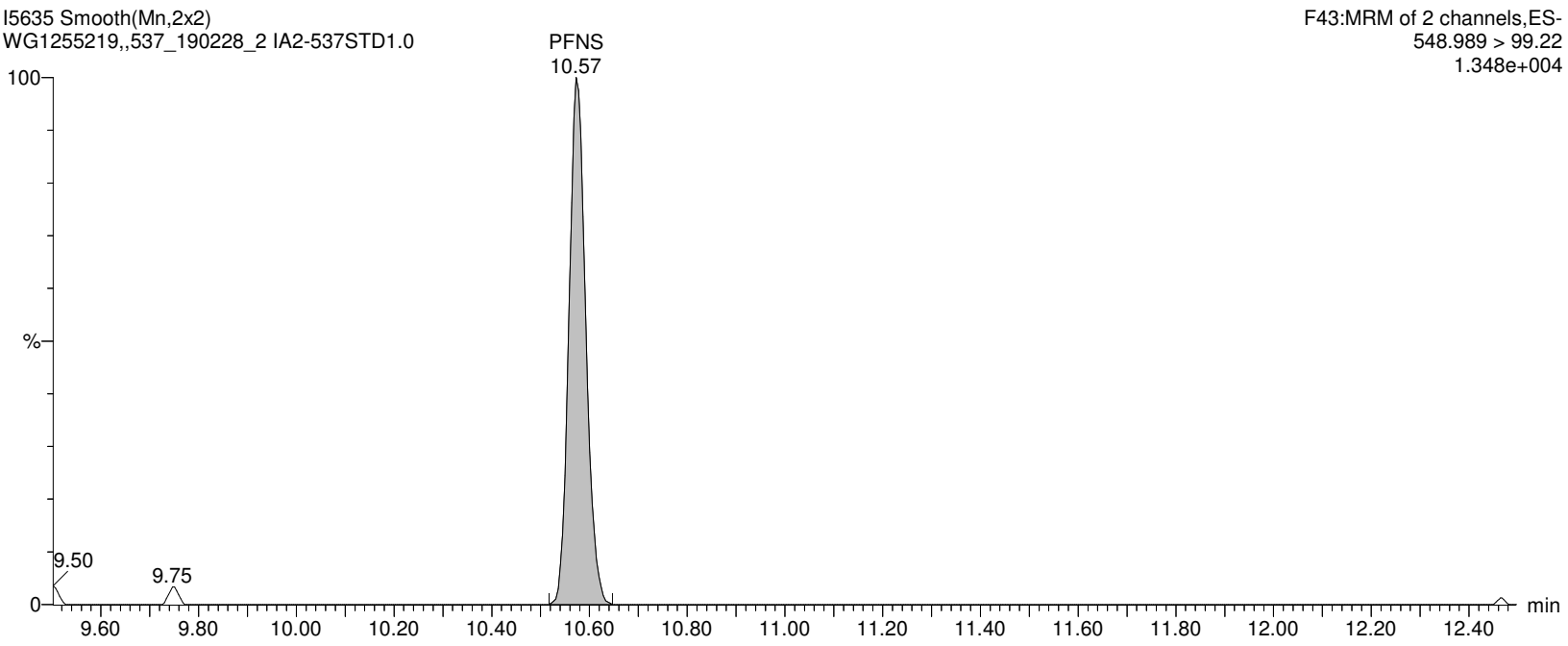
all concentration units in (ng/mL)

Alpha Analytical Inc.
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PFNS



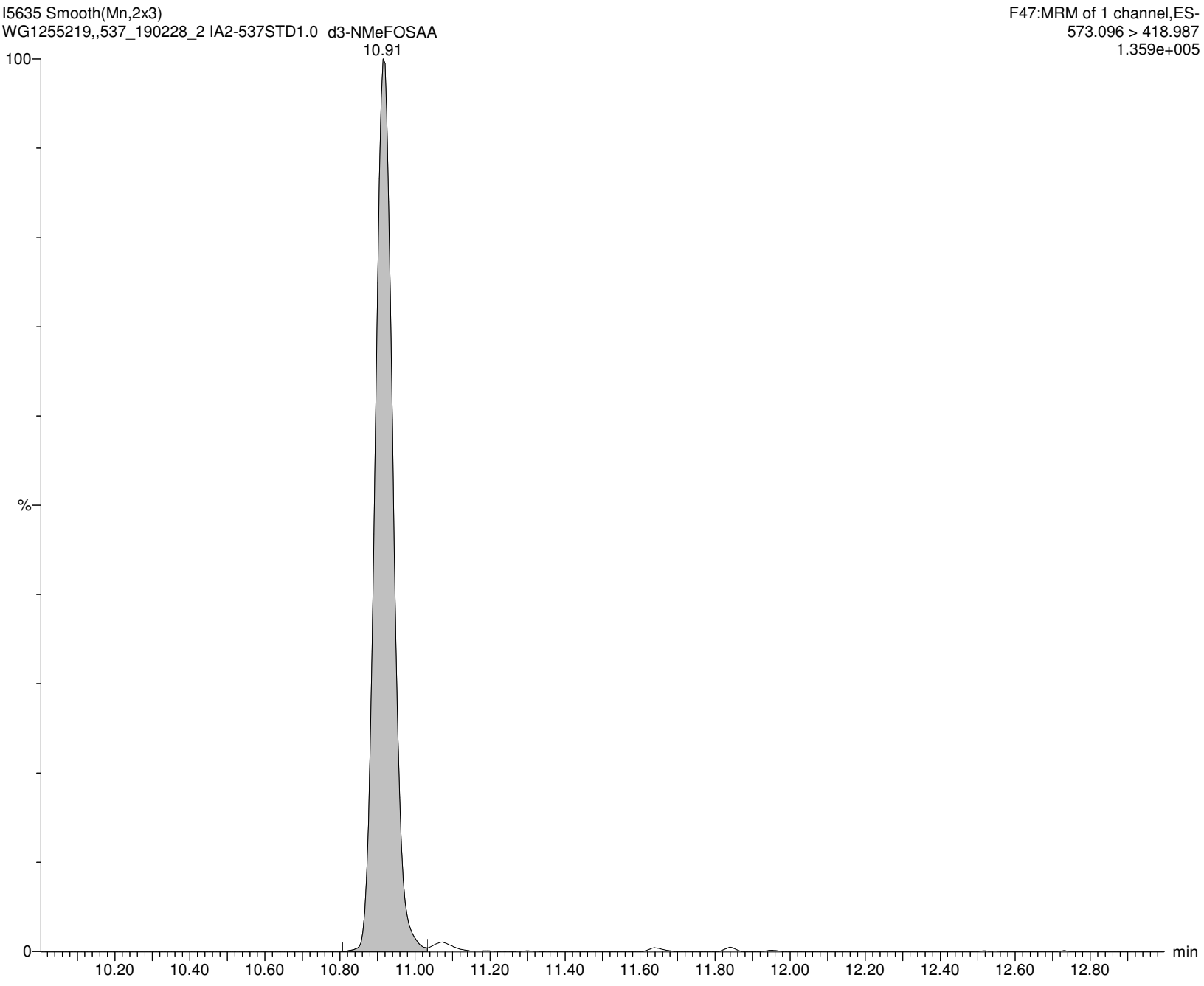


all concentration units in (ng/mL)

Alpha Analytical Inc.
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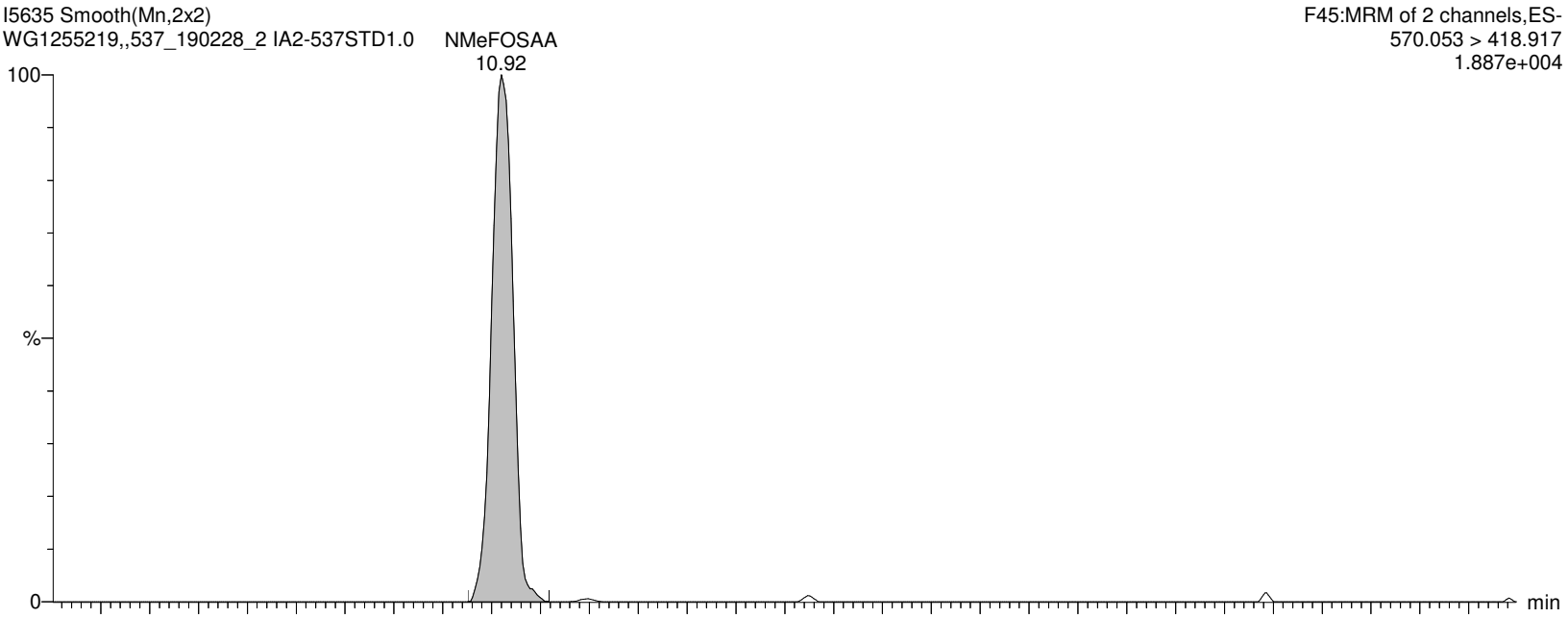


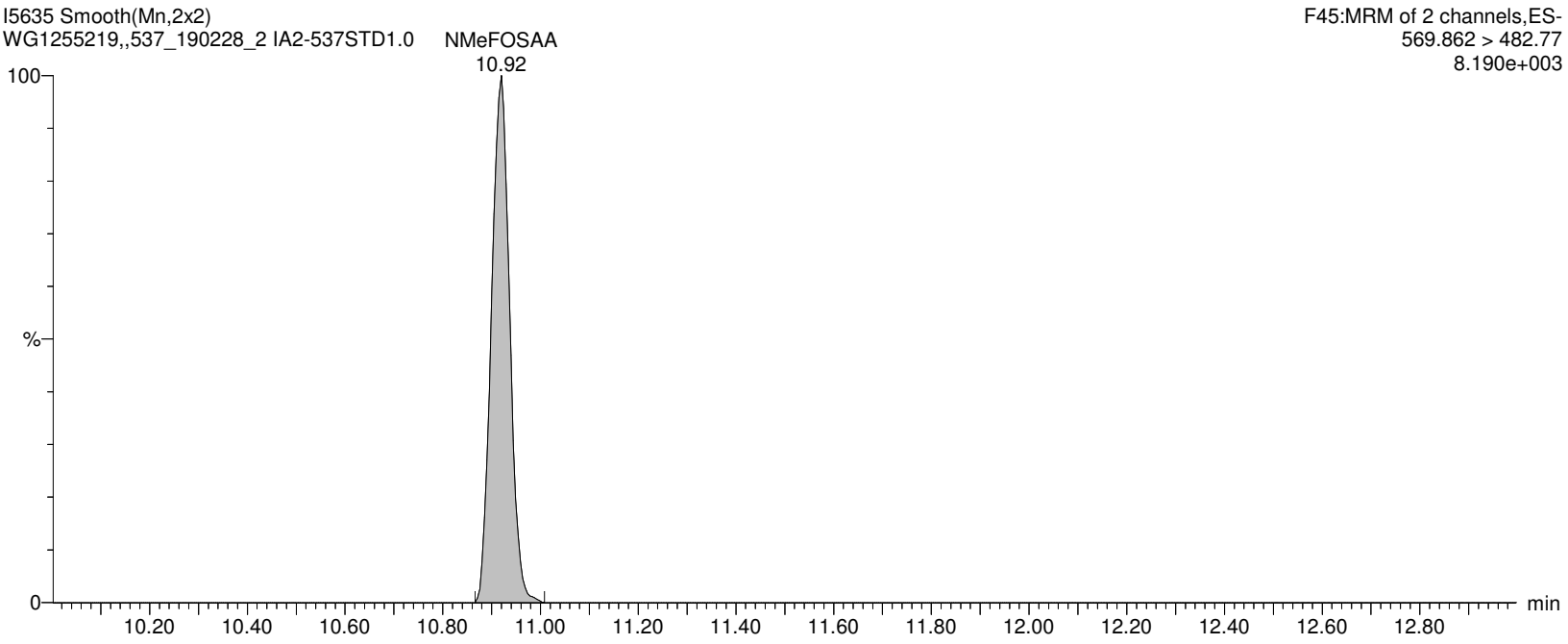
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
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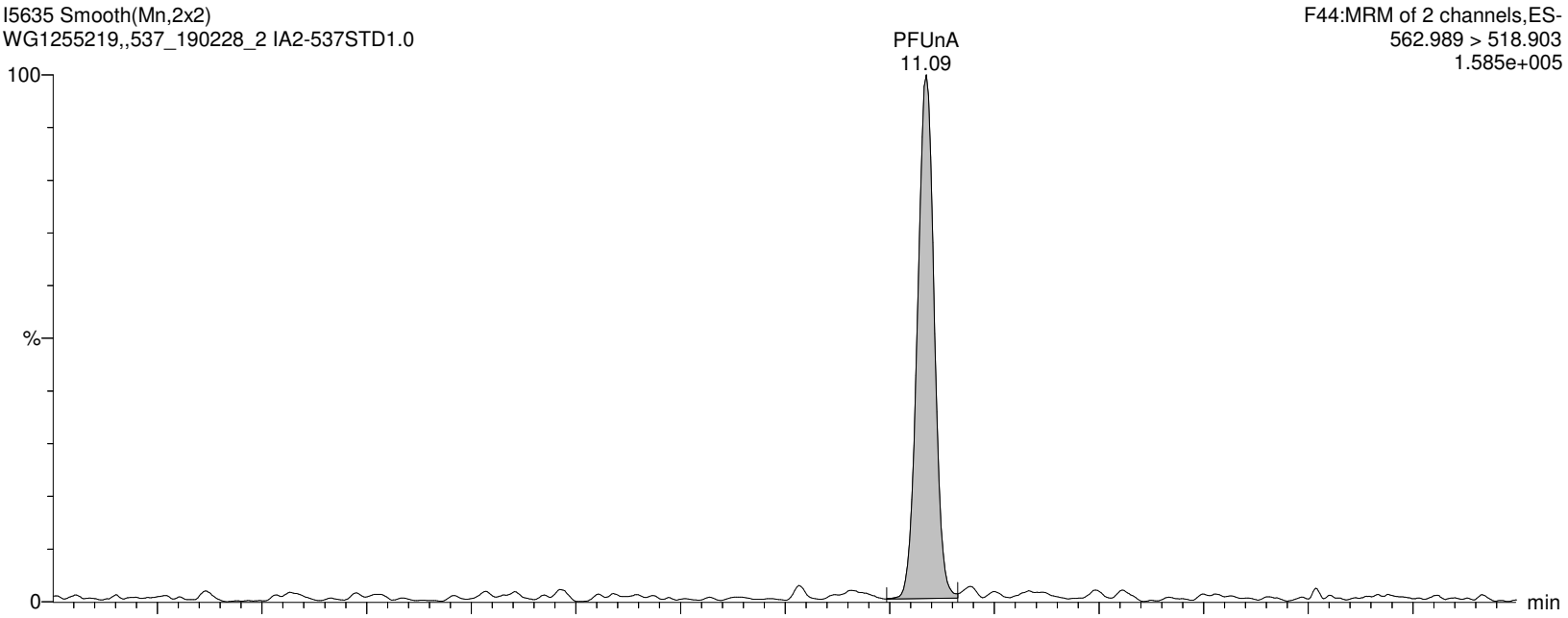


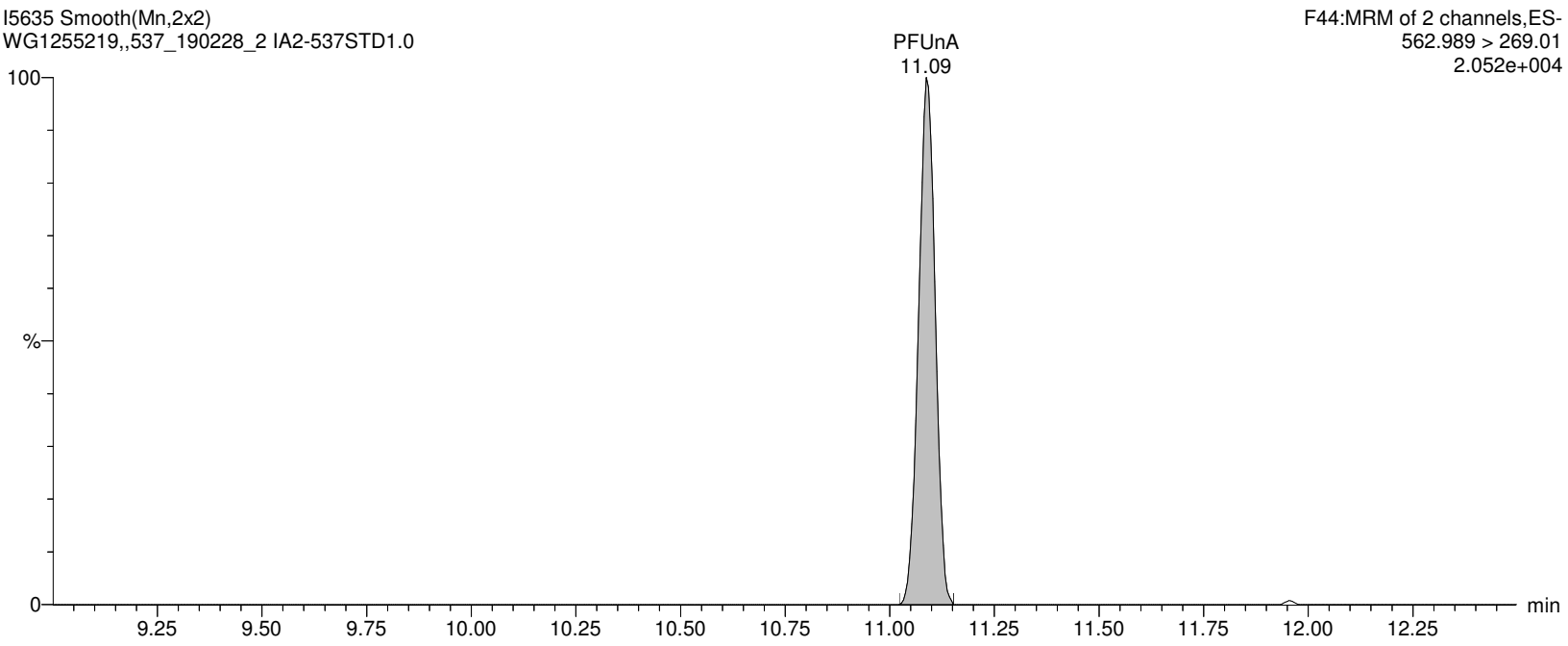
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
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PFUnA



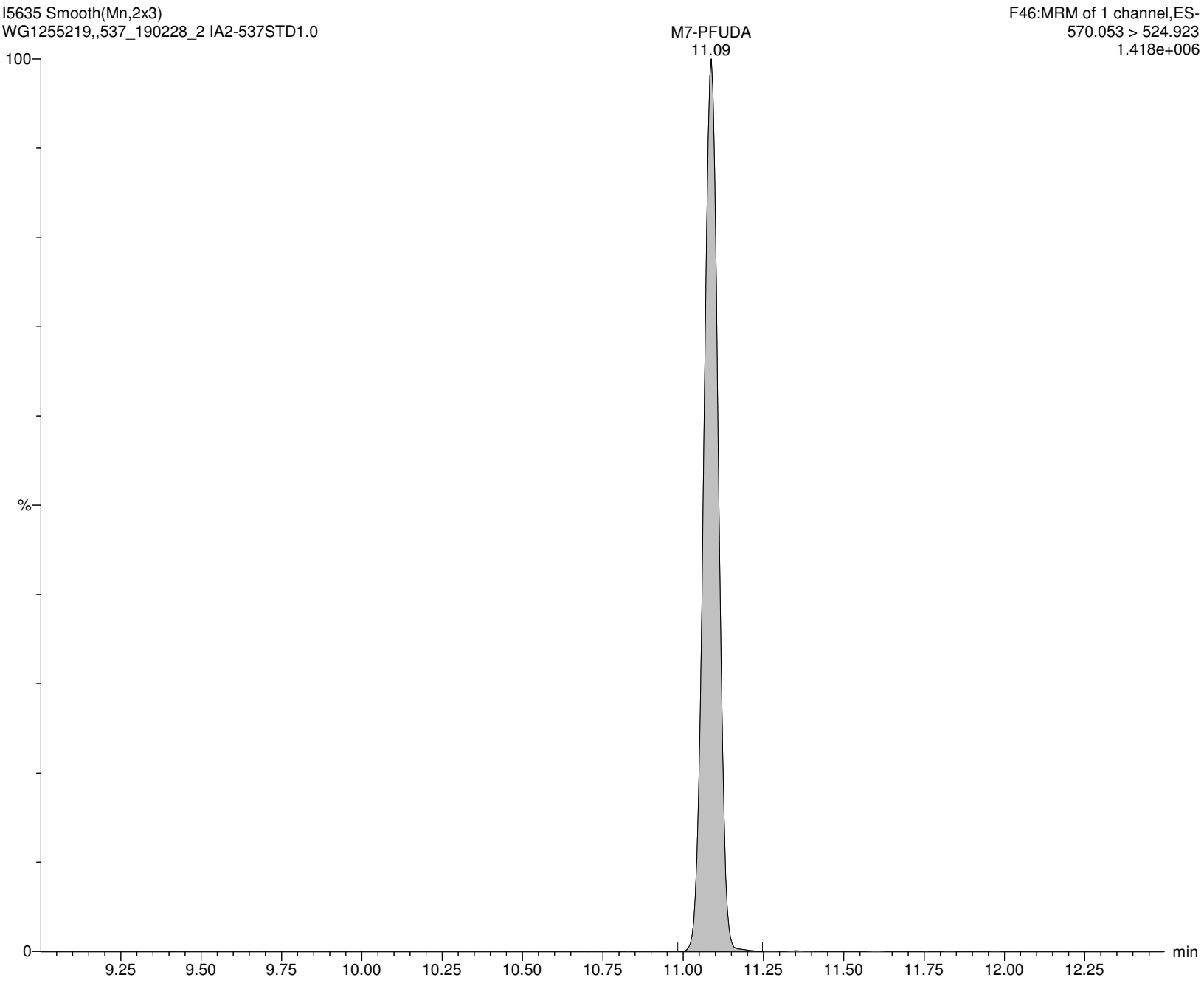


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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M7-PFUDA

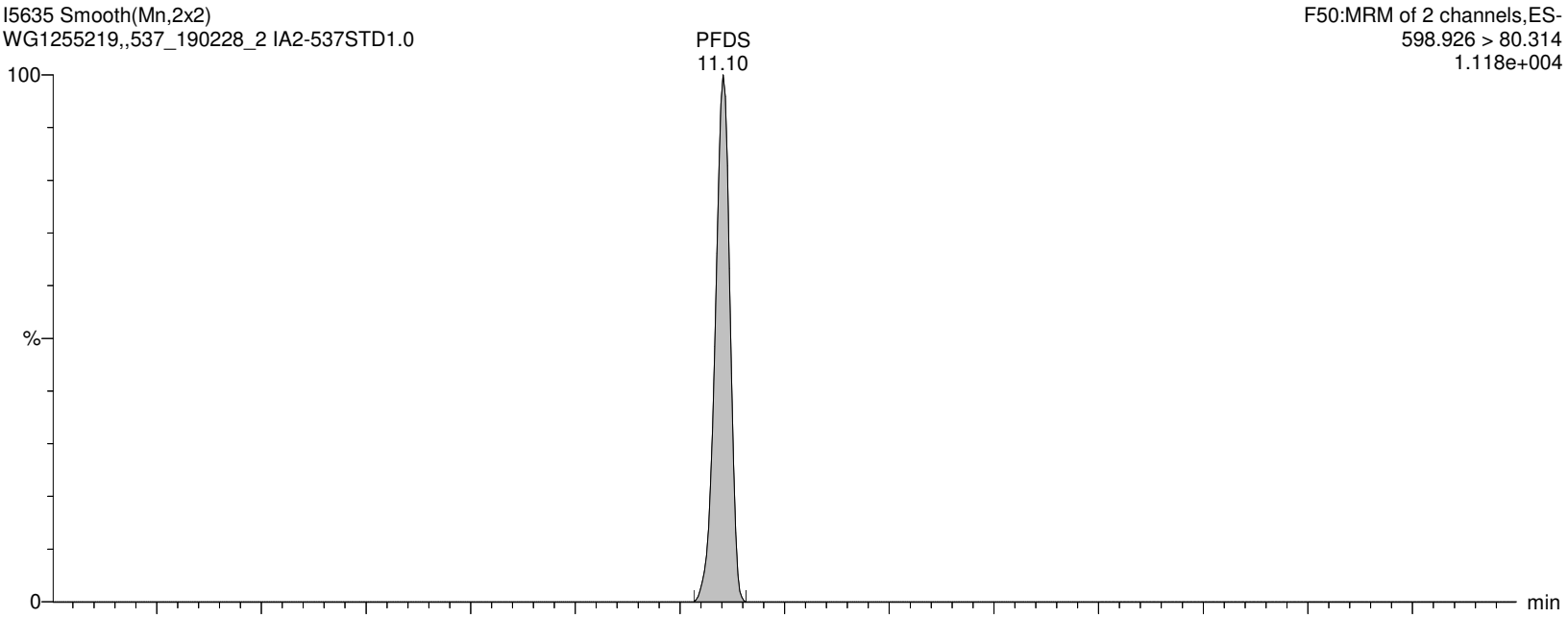


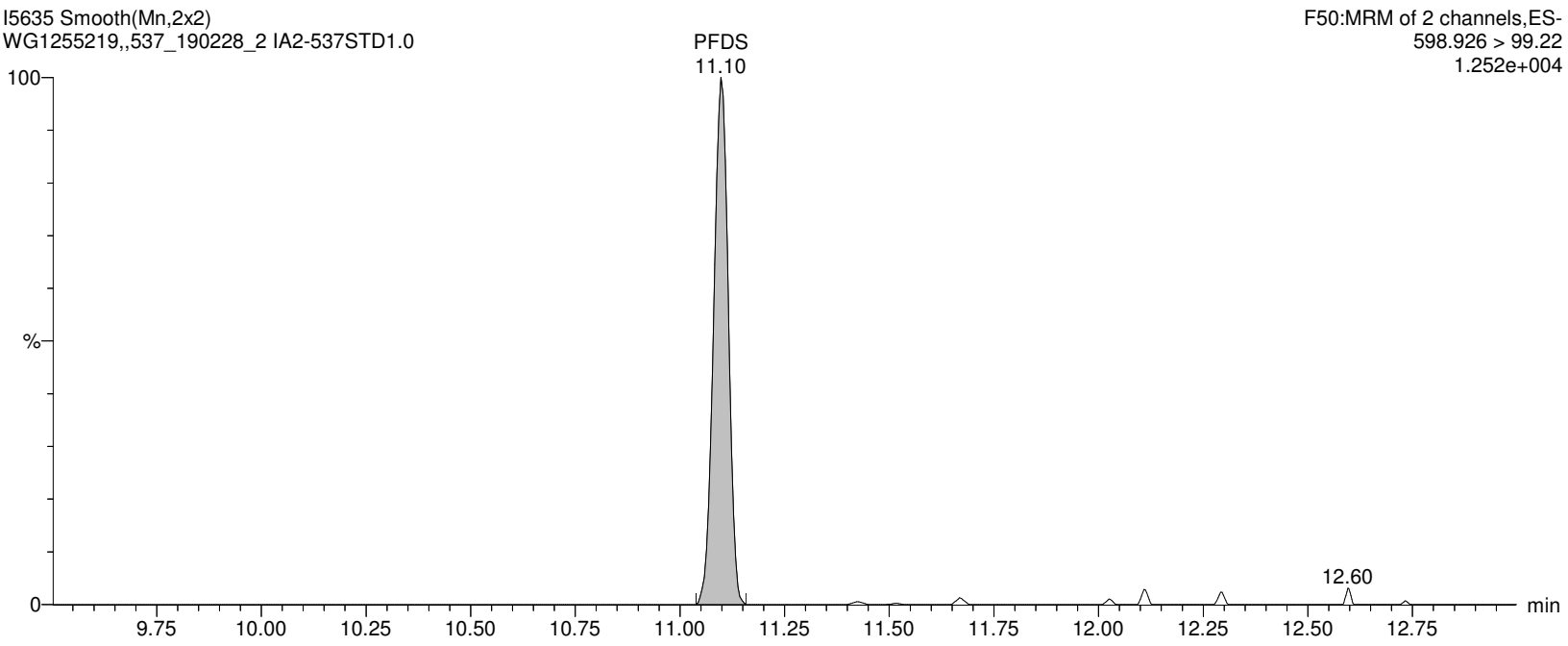
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Printed: Tuesday, July 02, 2019 11:08:32 Eastern Daylight Time

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Date: 01-Jul-2019
Time: 18:13:58
Description: WG1255219,,537_190228_2
User: LCMS02:JW
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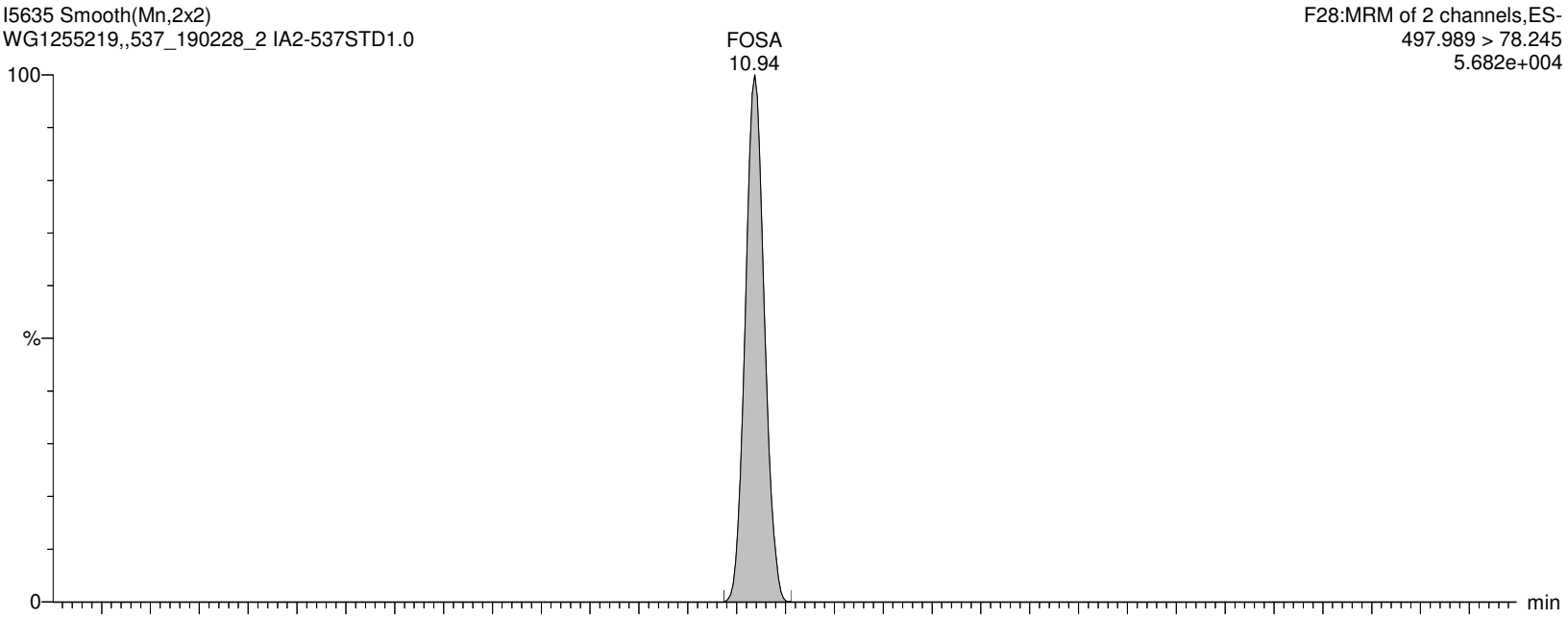


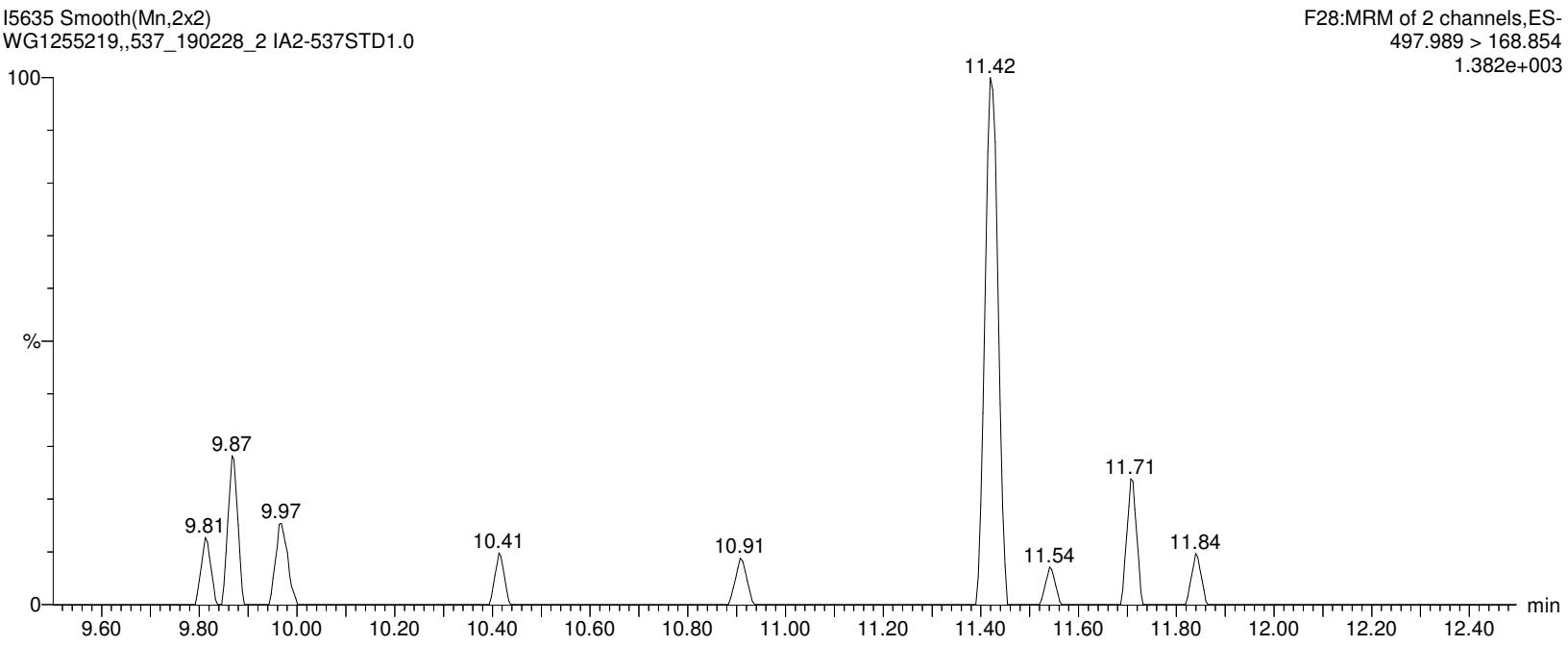
all concentration units in (ng/mL)

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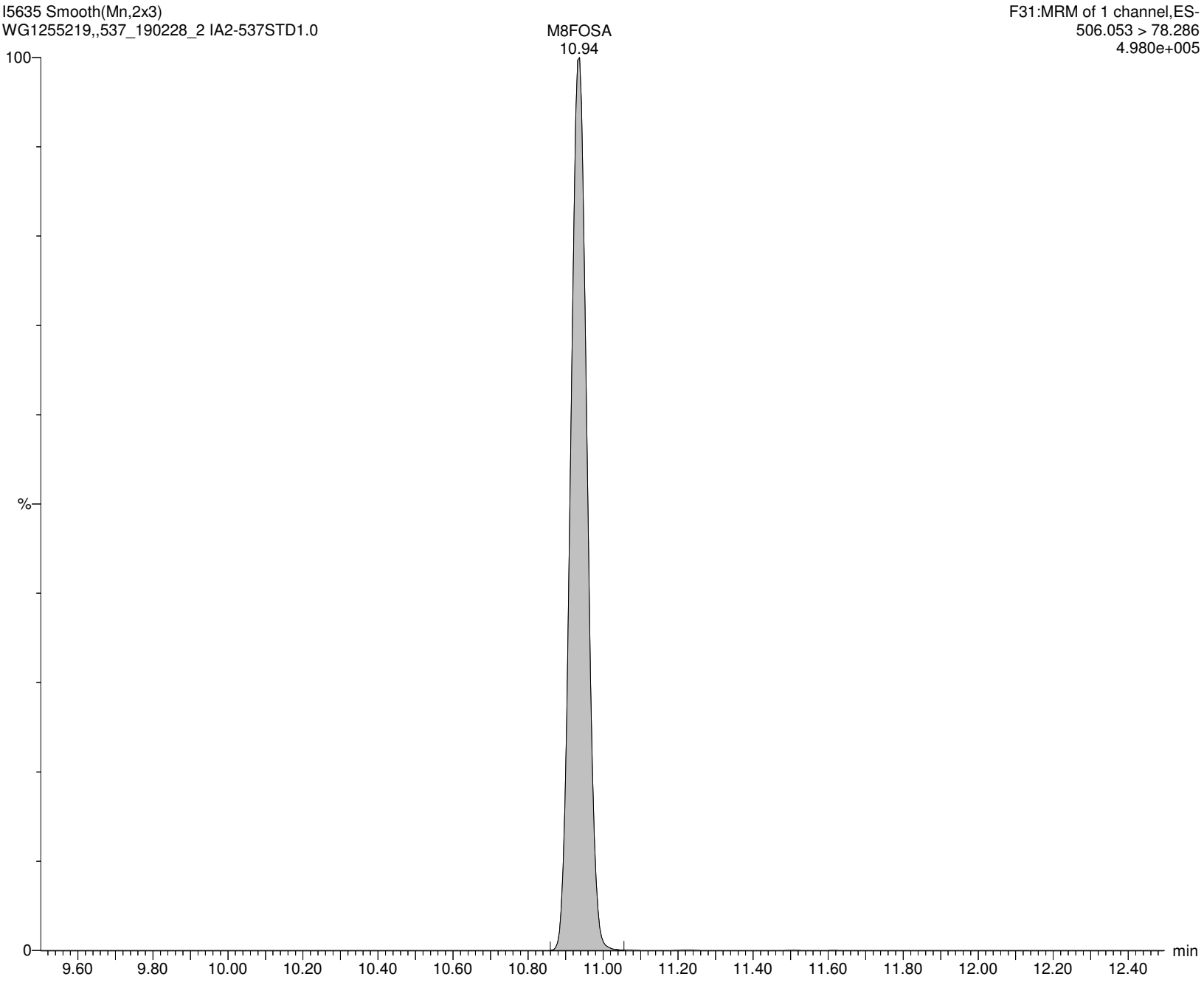


all concentration units in (ng/mL)

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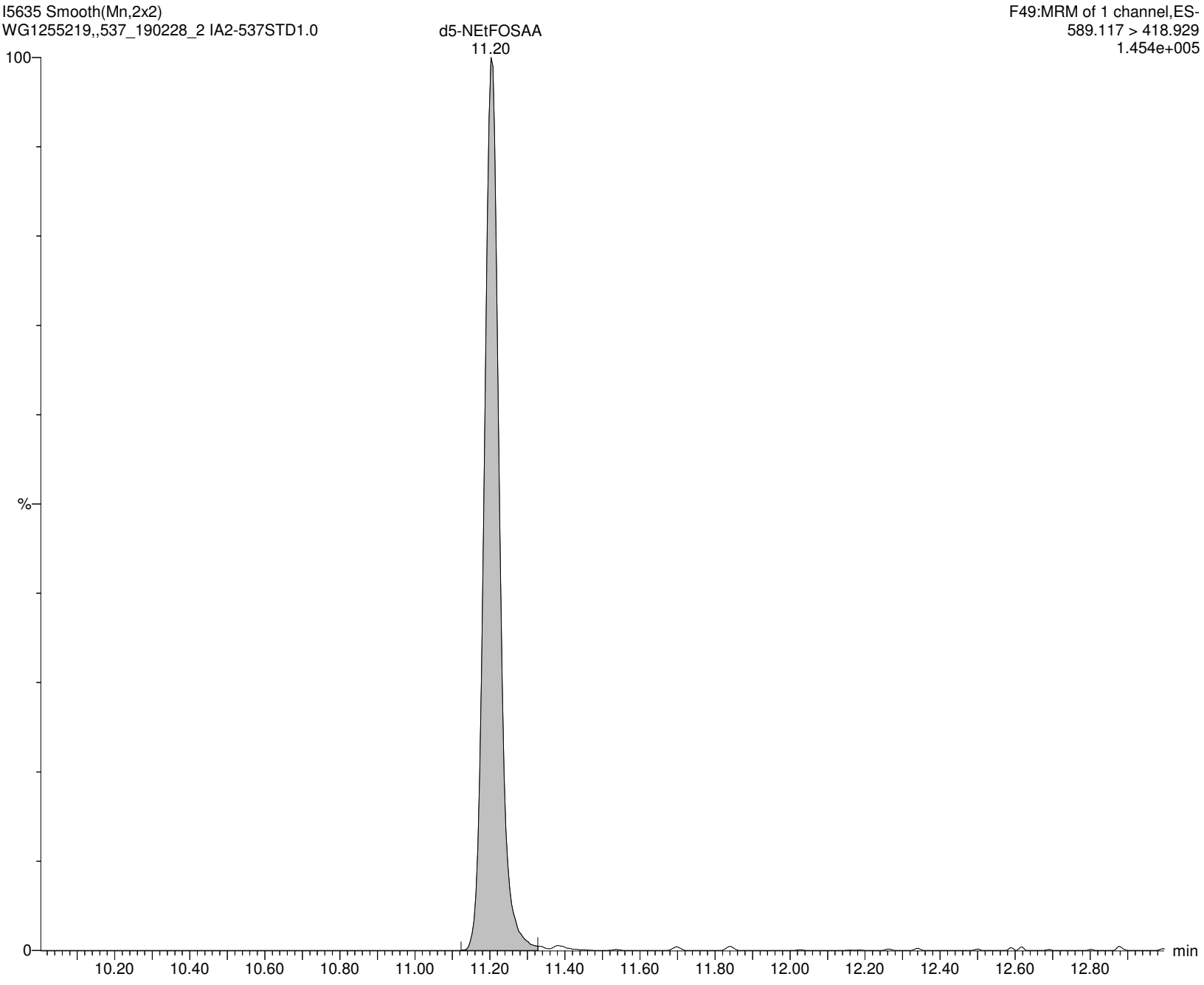


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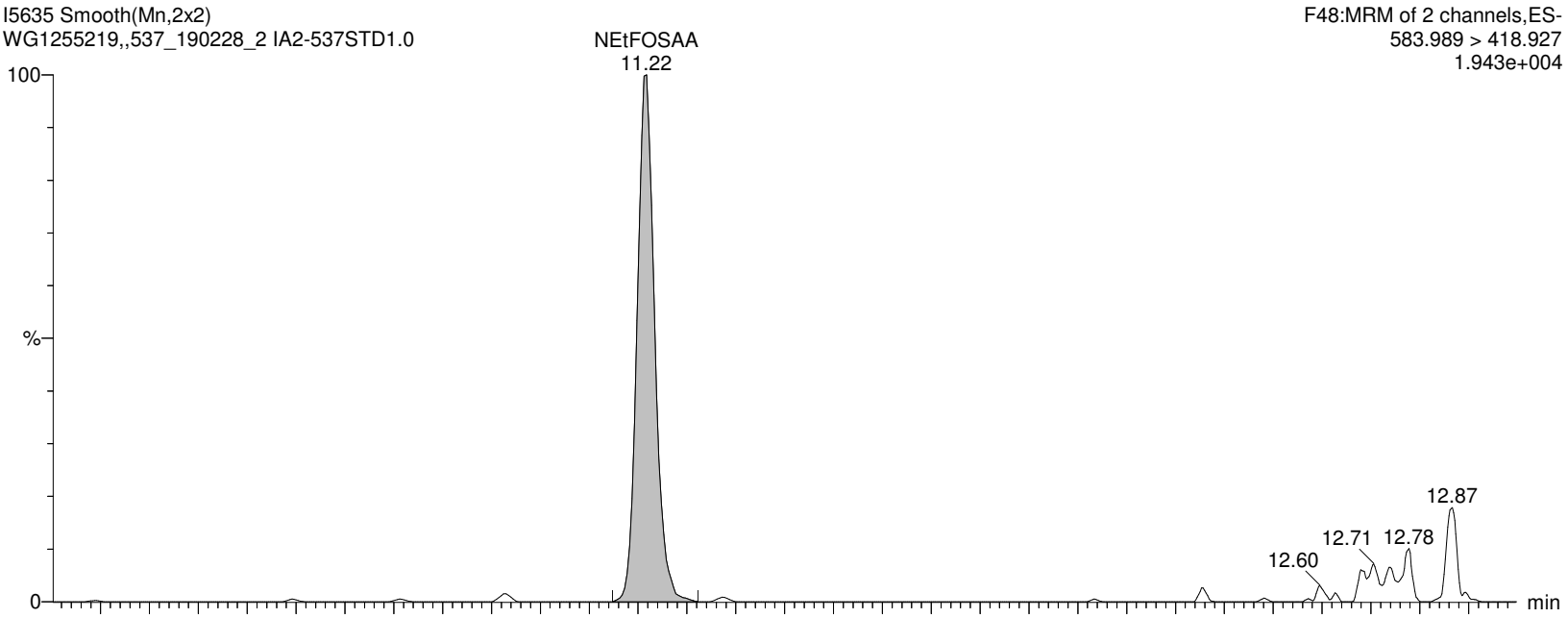


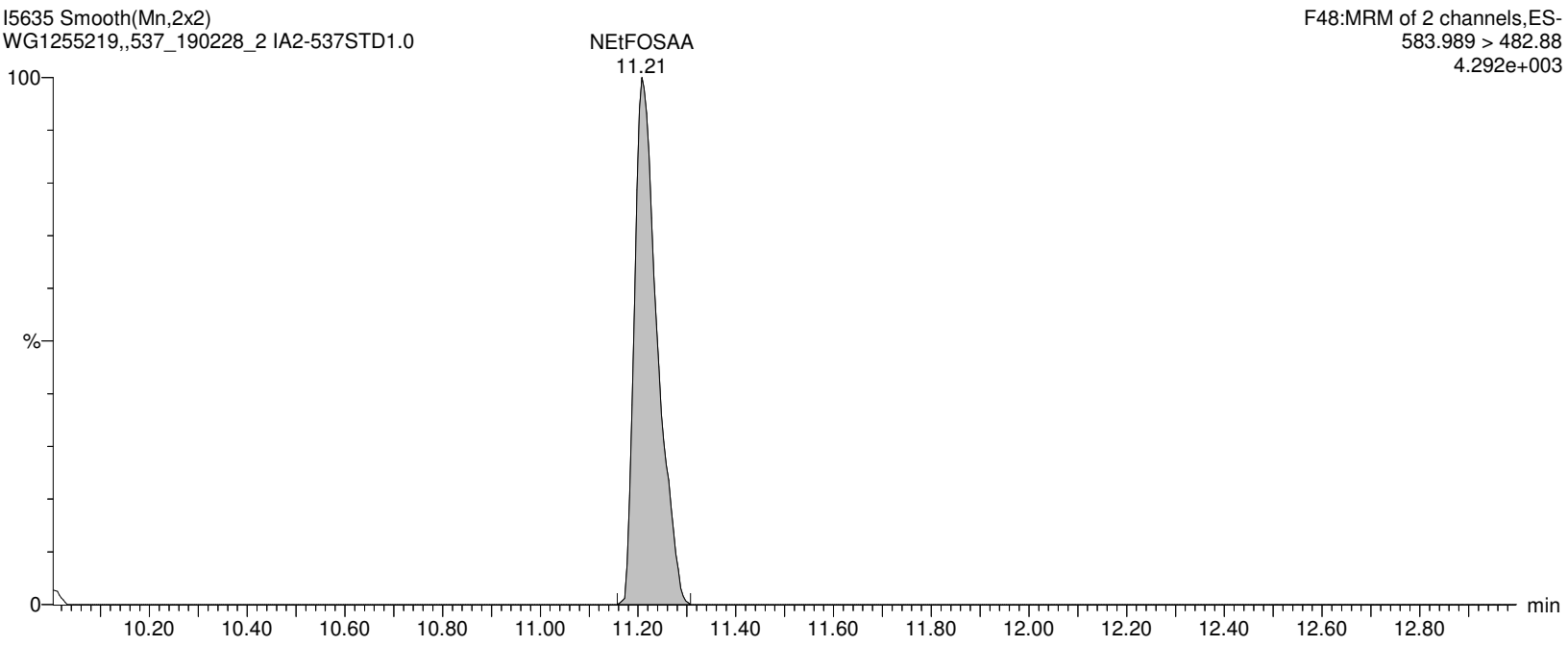
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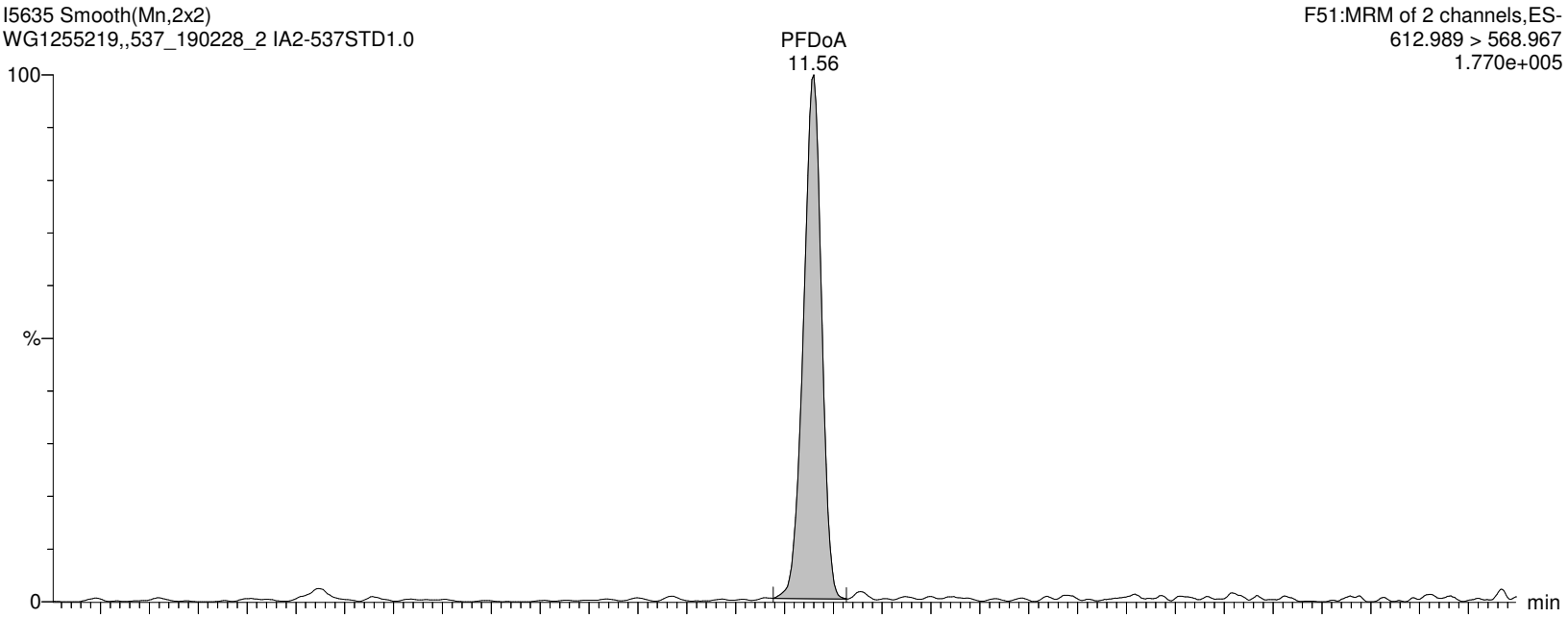


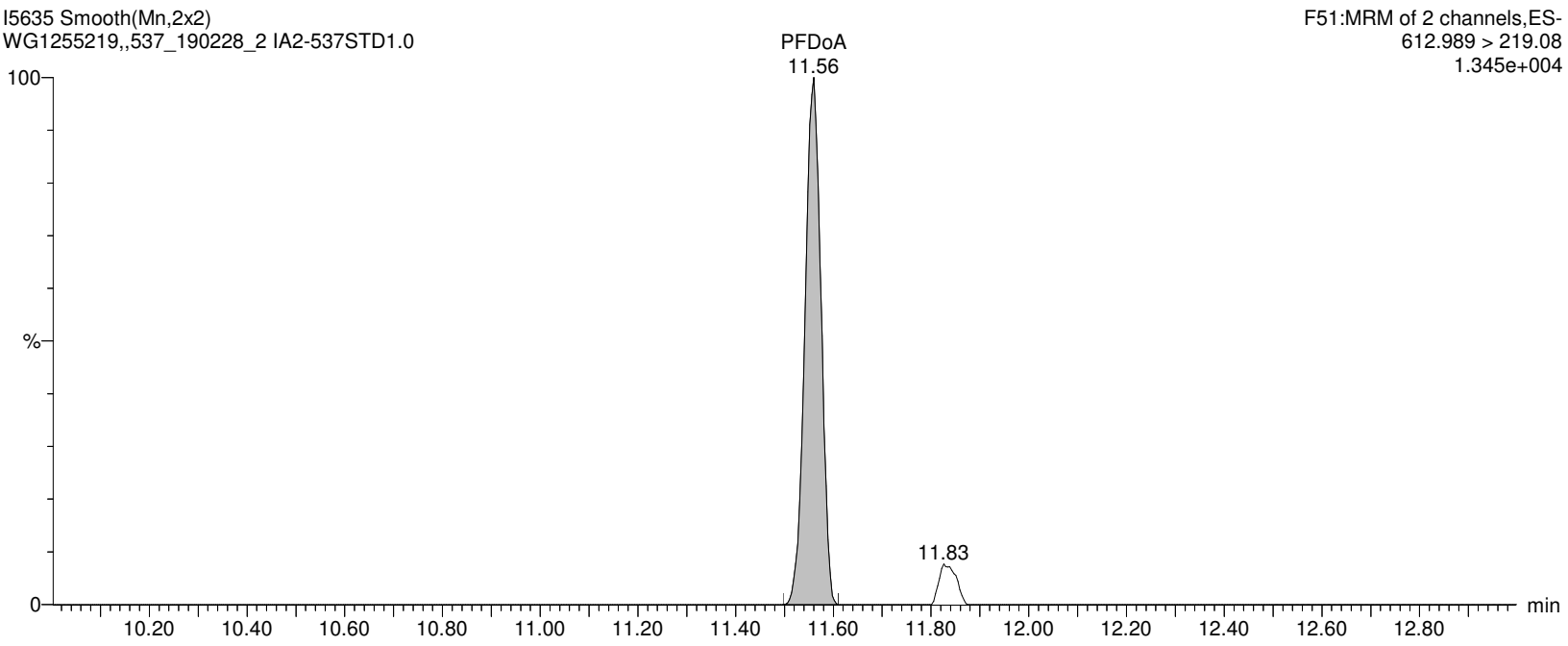
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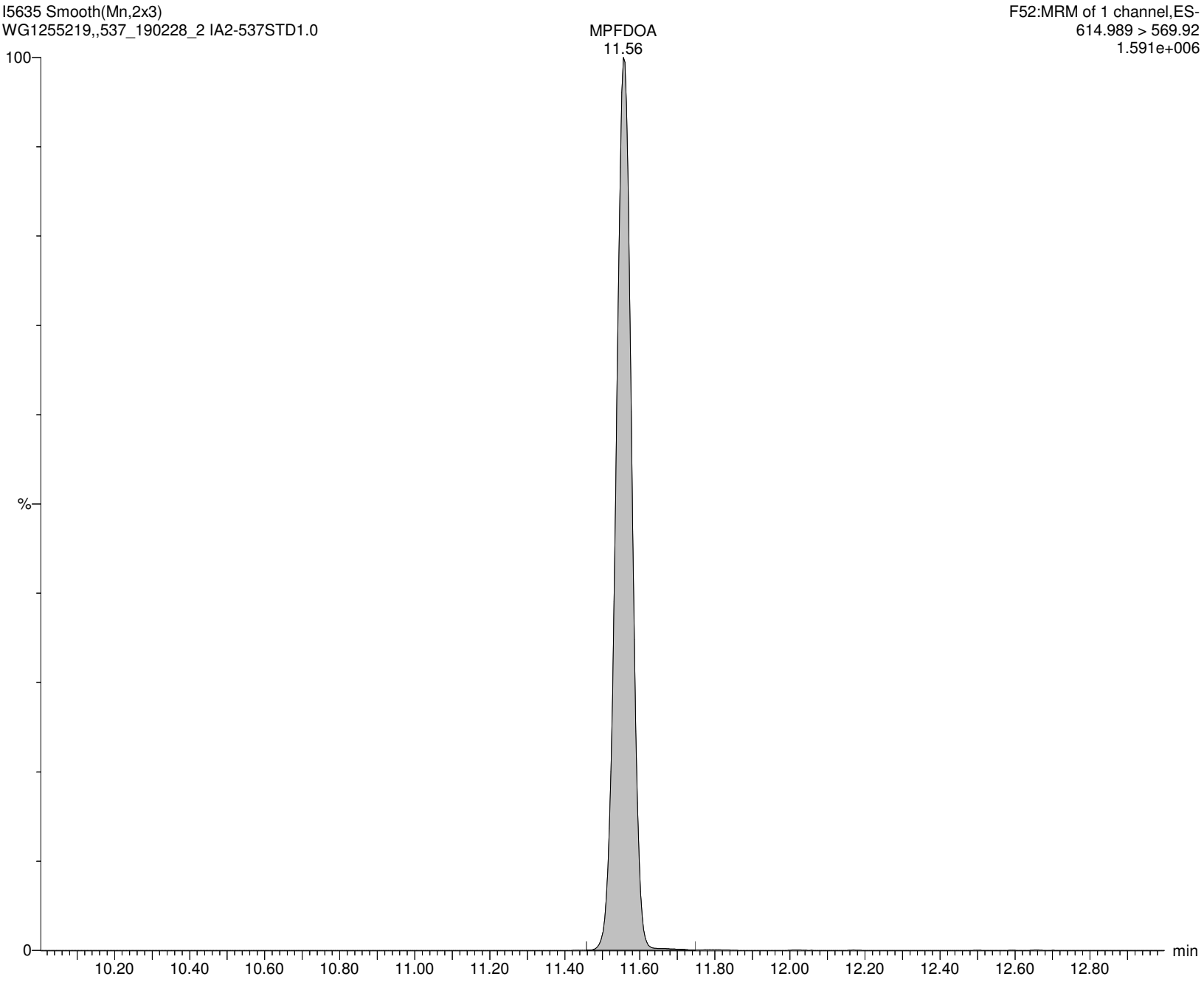


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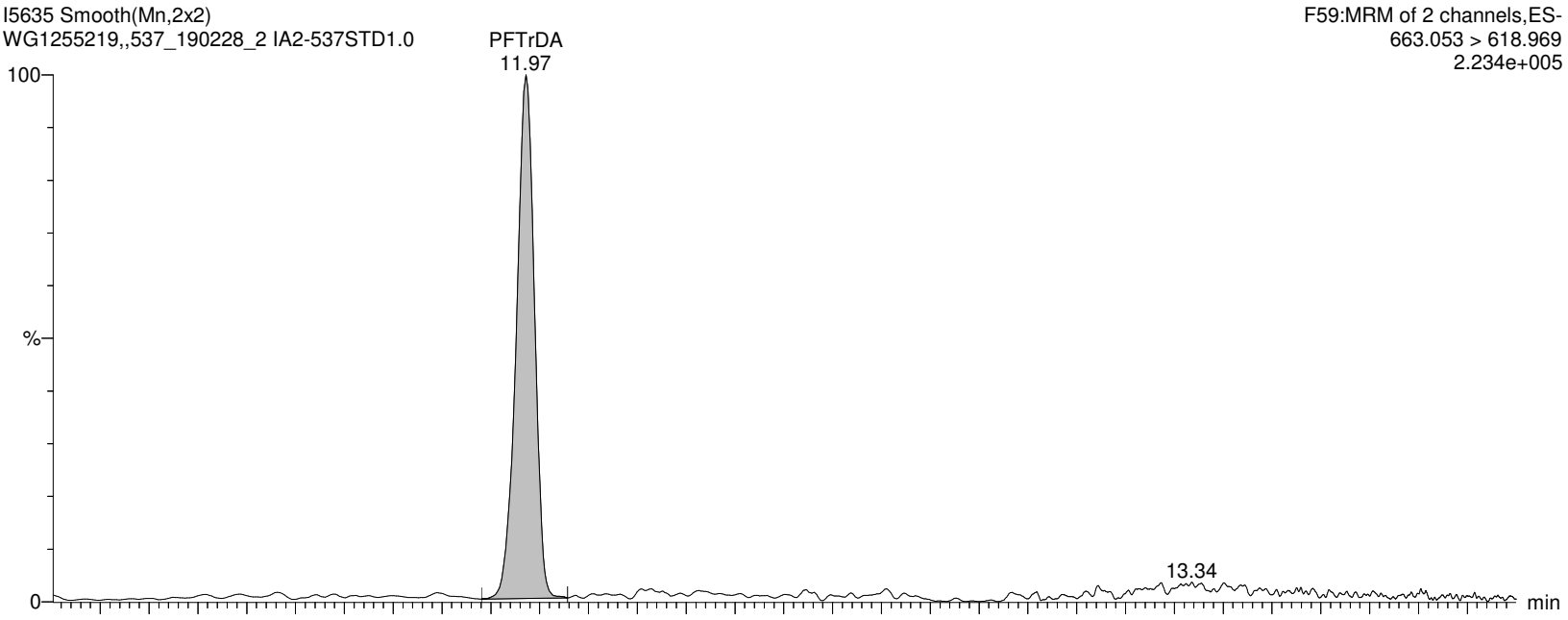


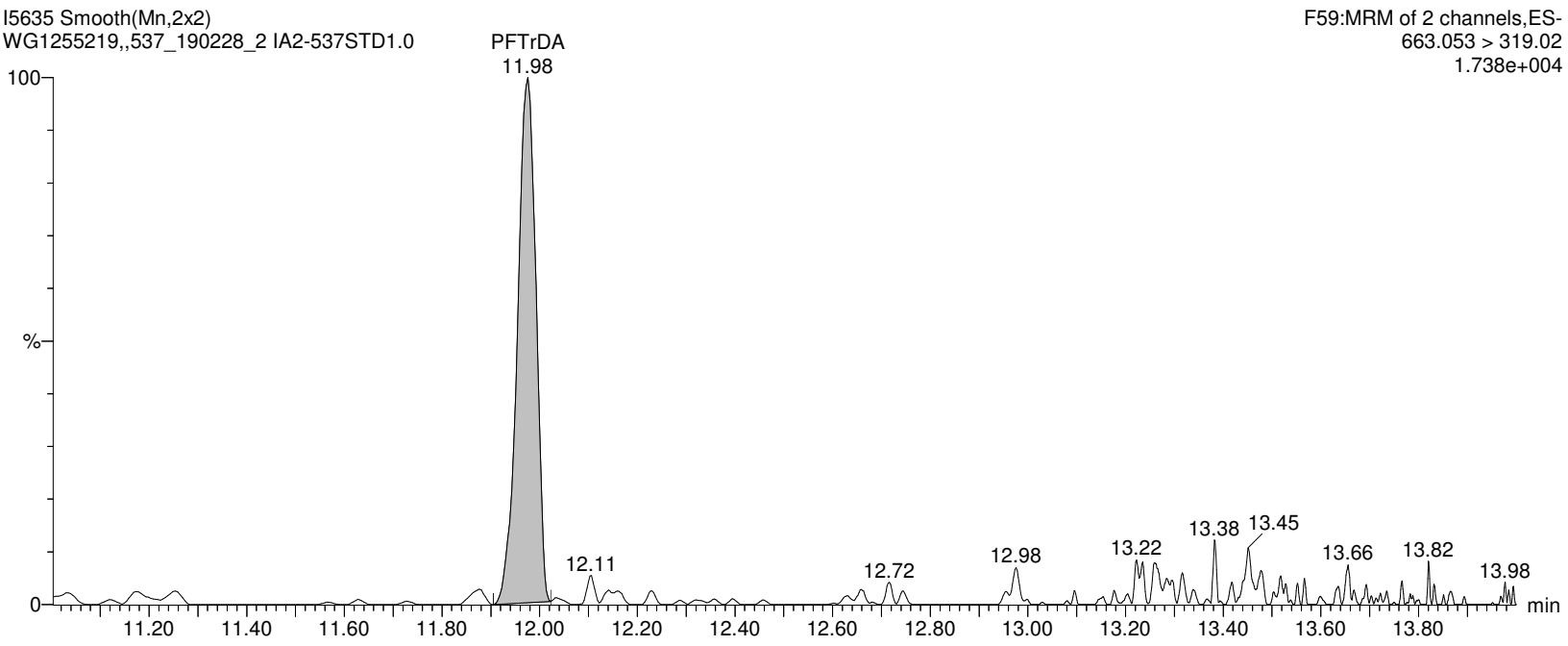
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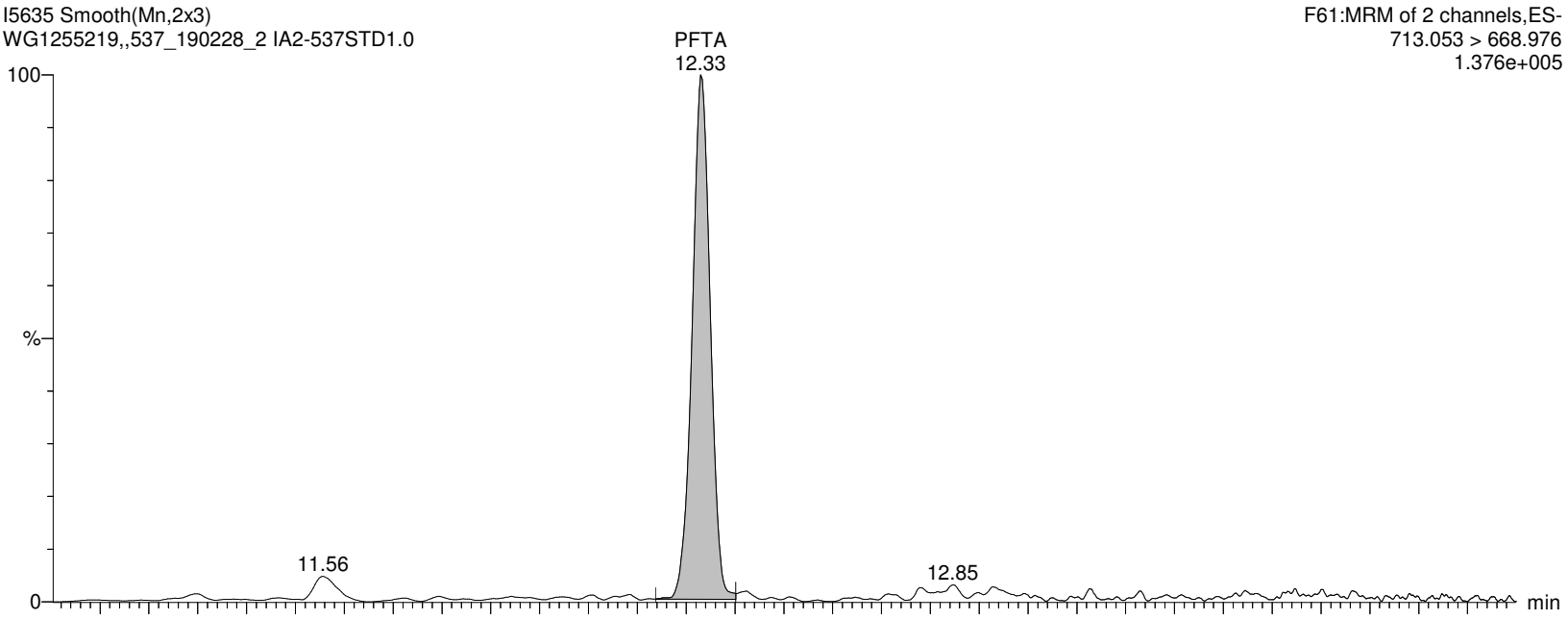


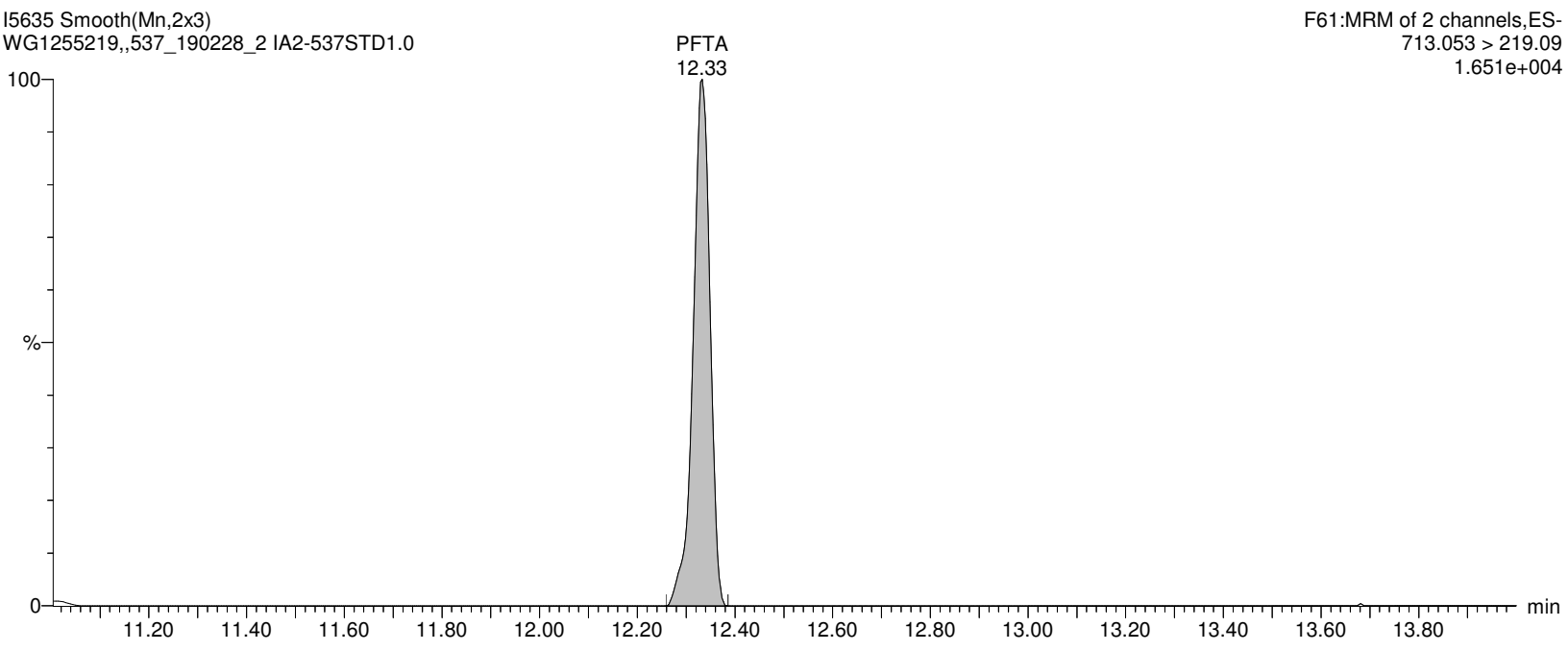
all concentration units in (ng/mL)

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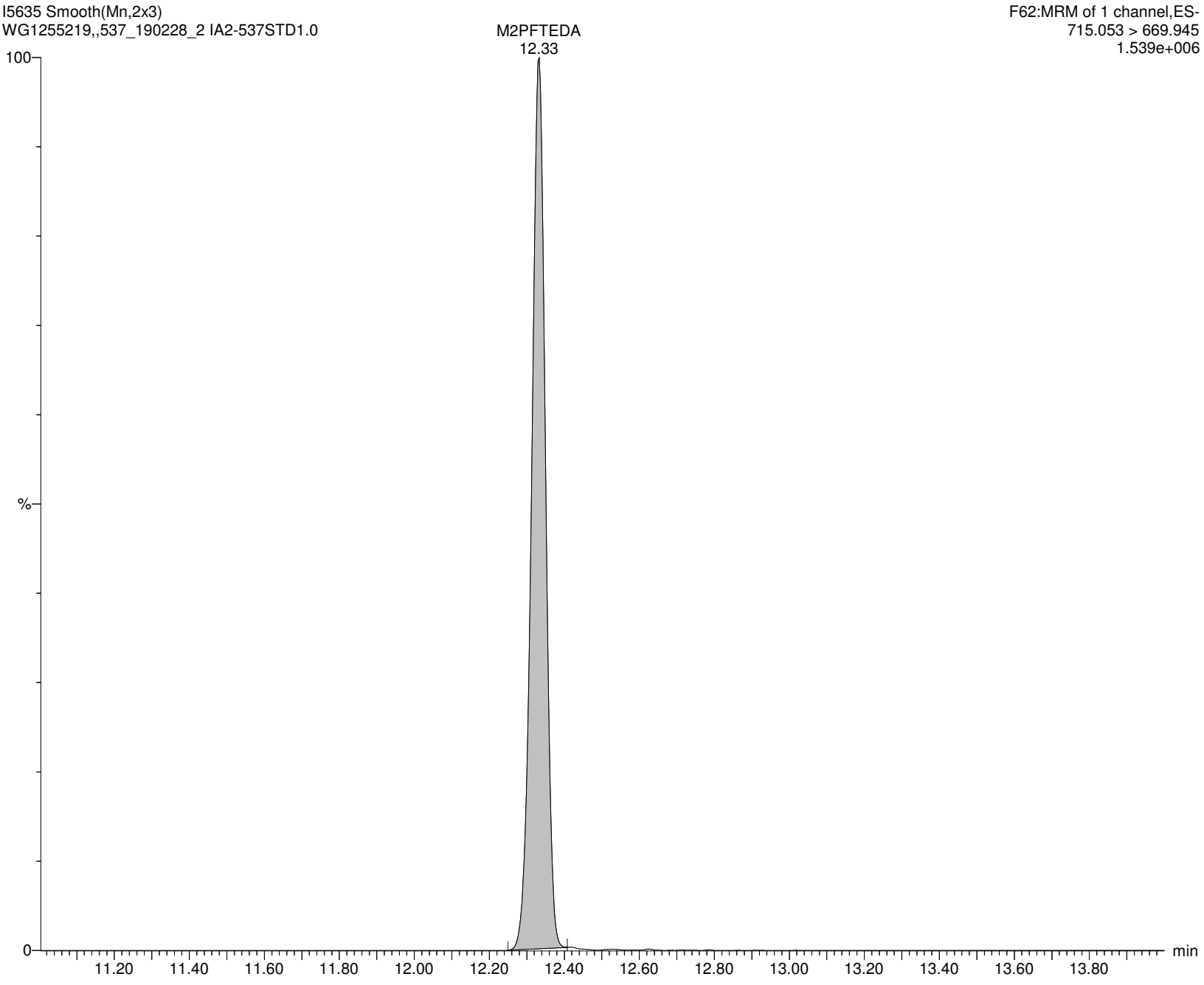


all concentration units in (ng/mL)

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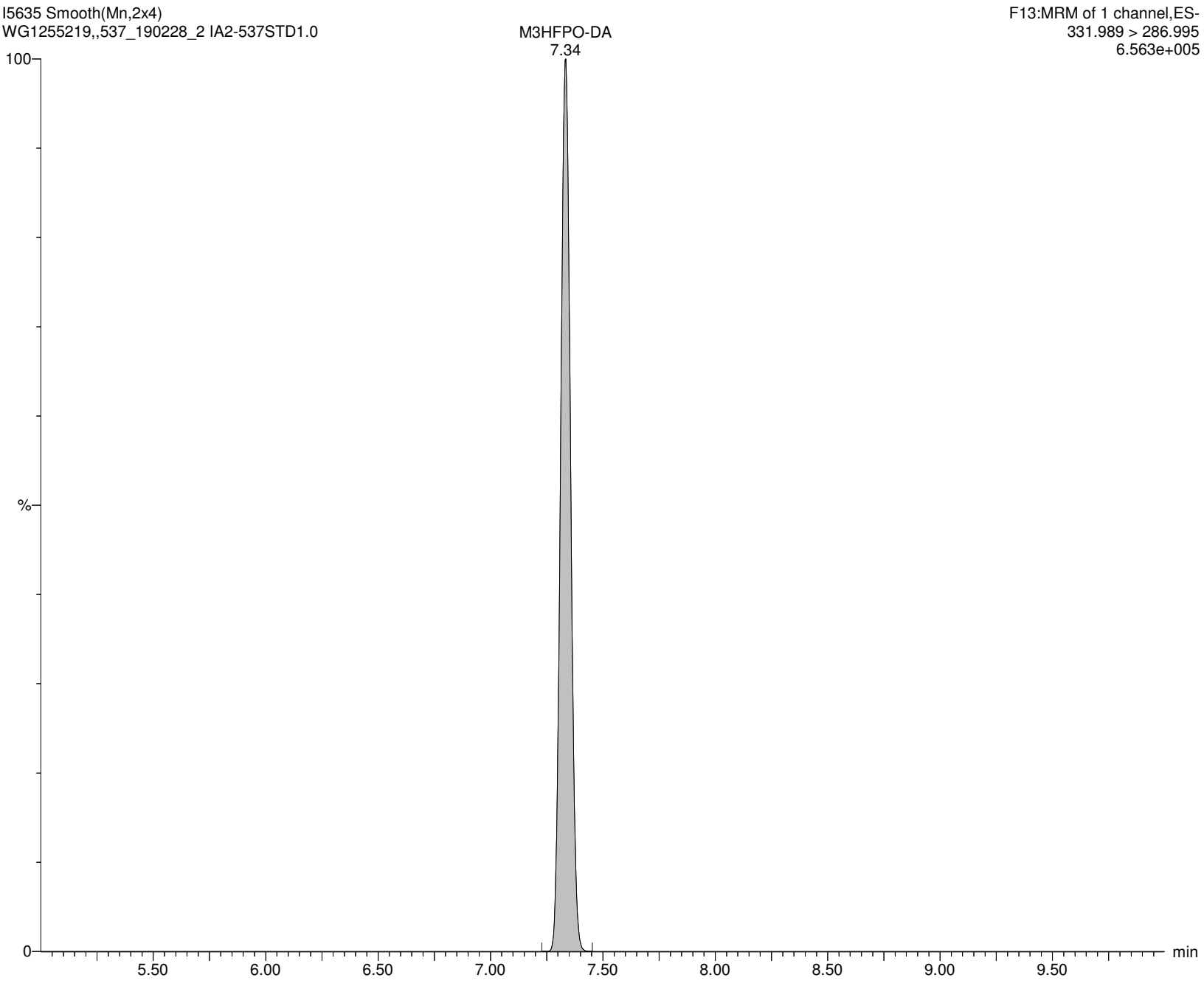


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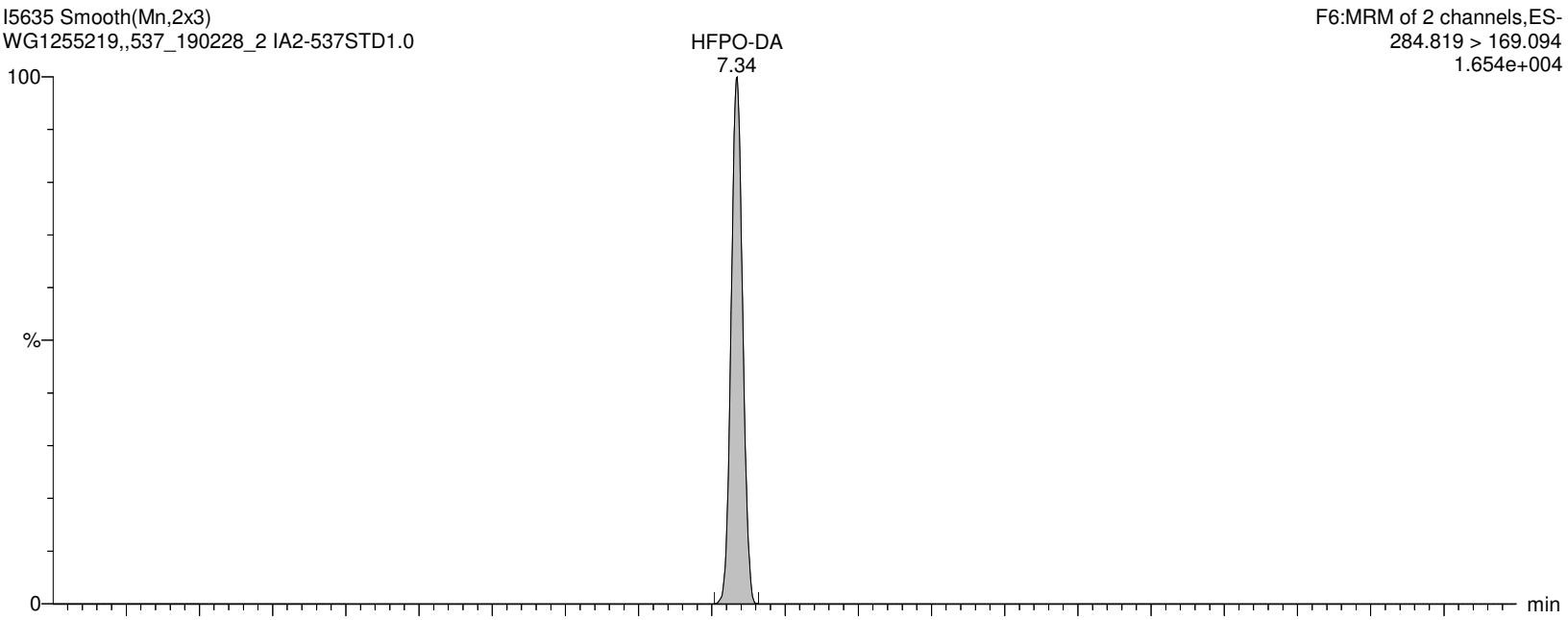


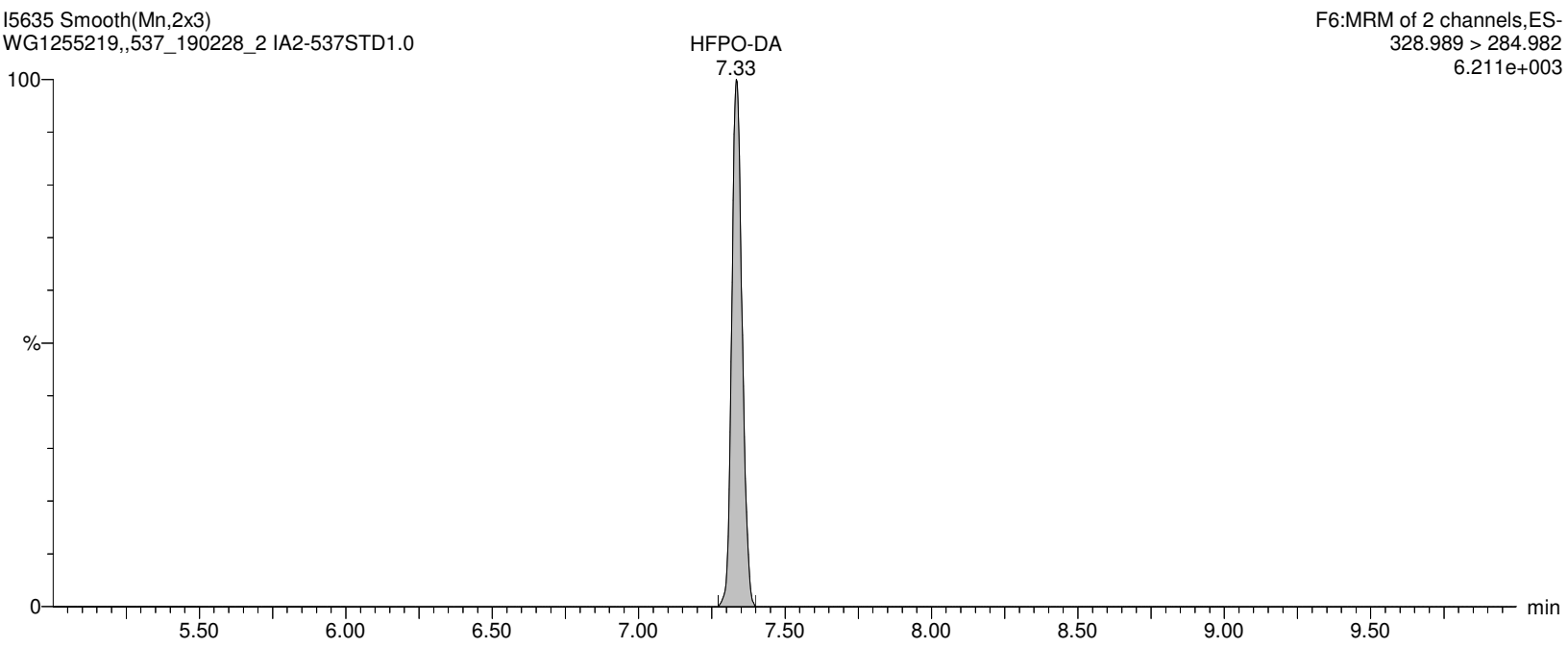
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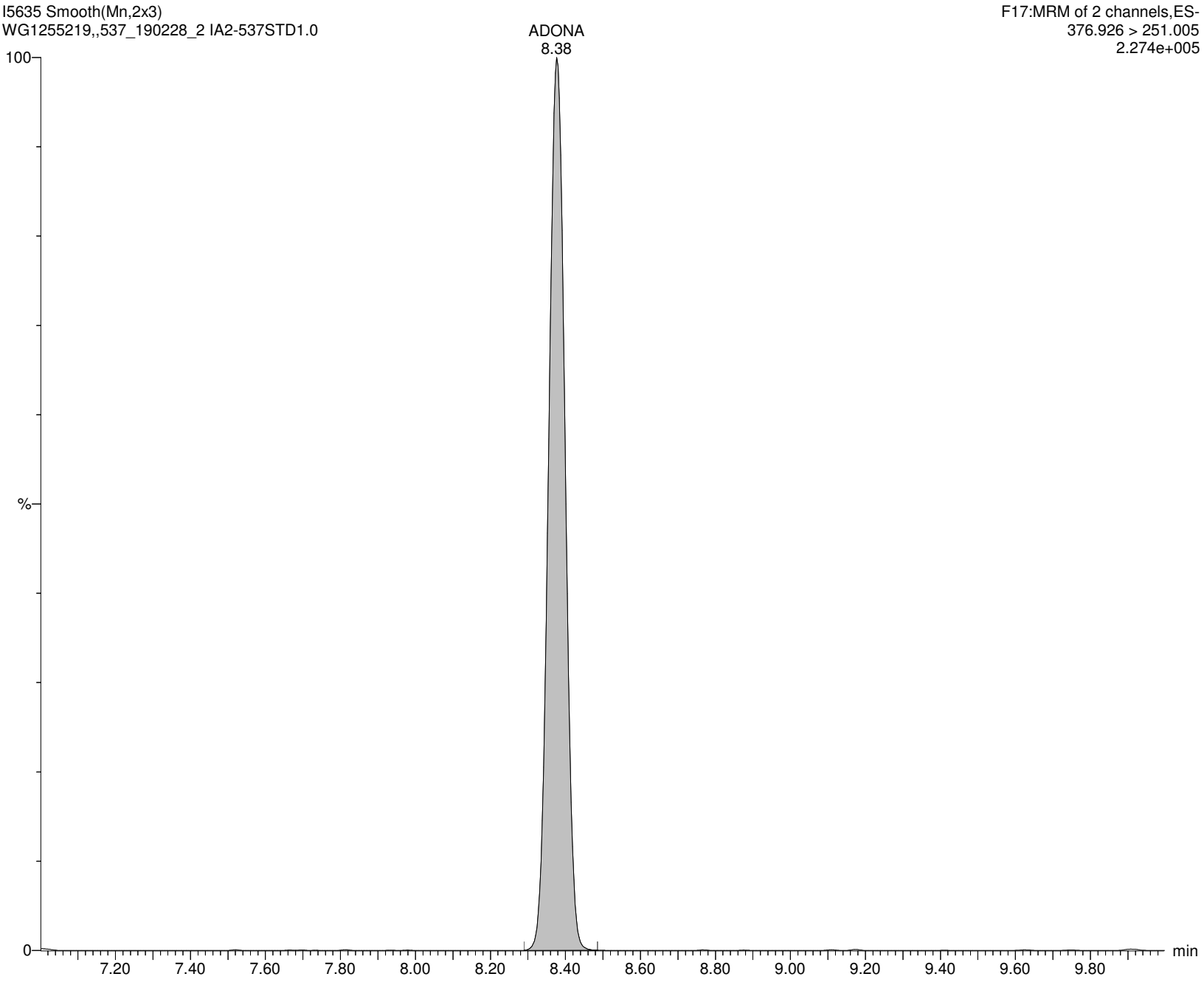


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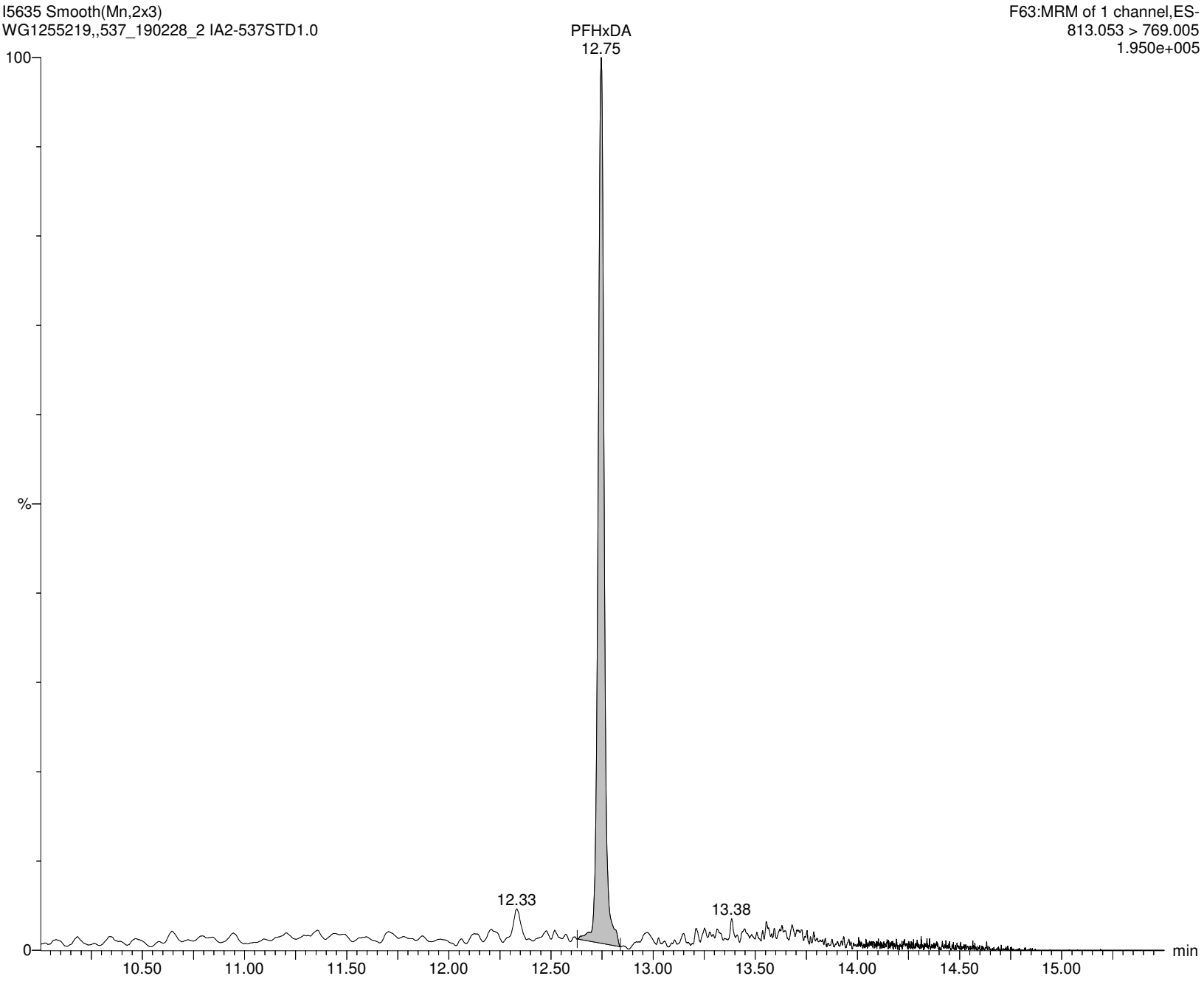


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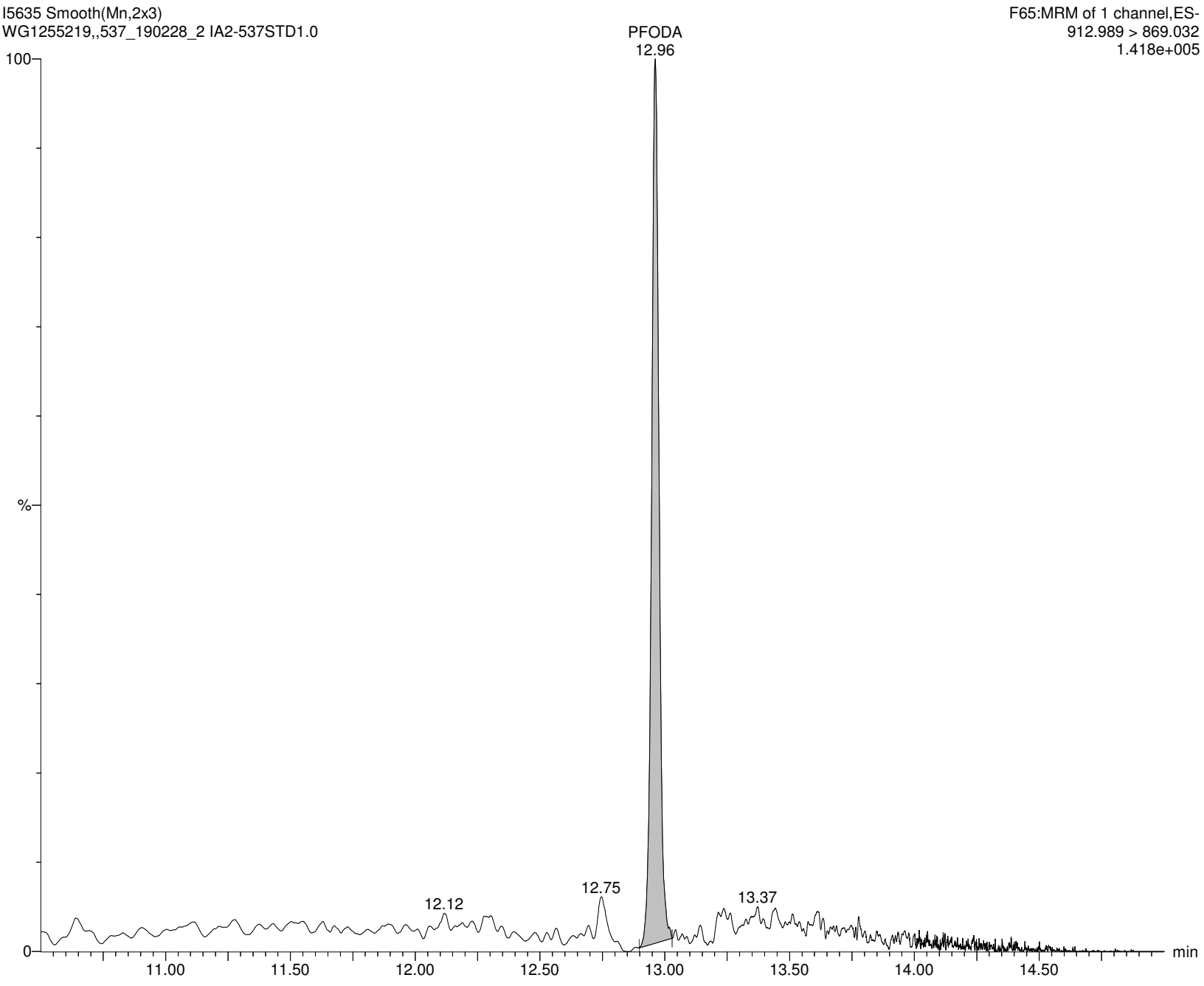


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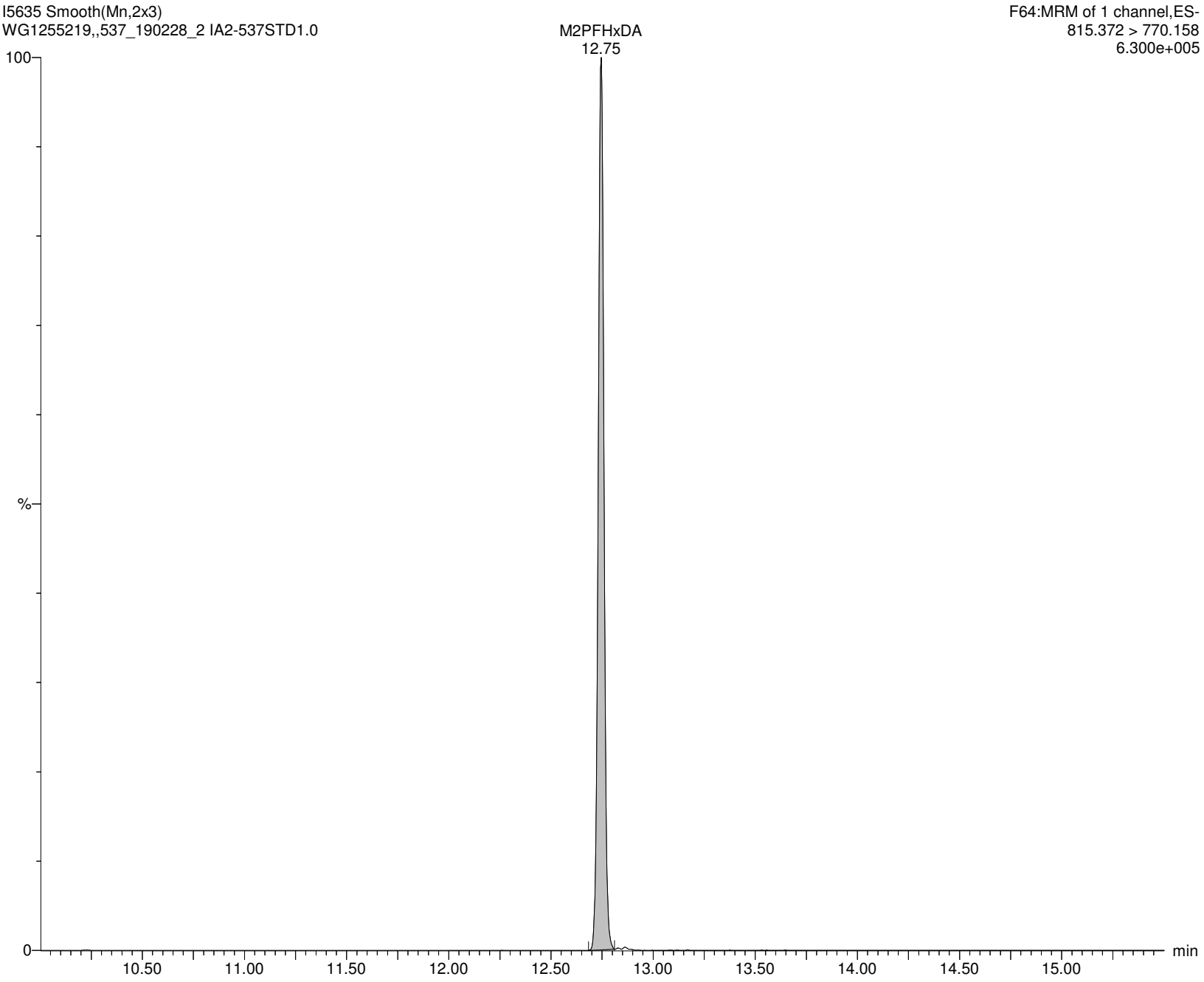


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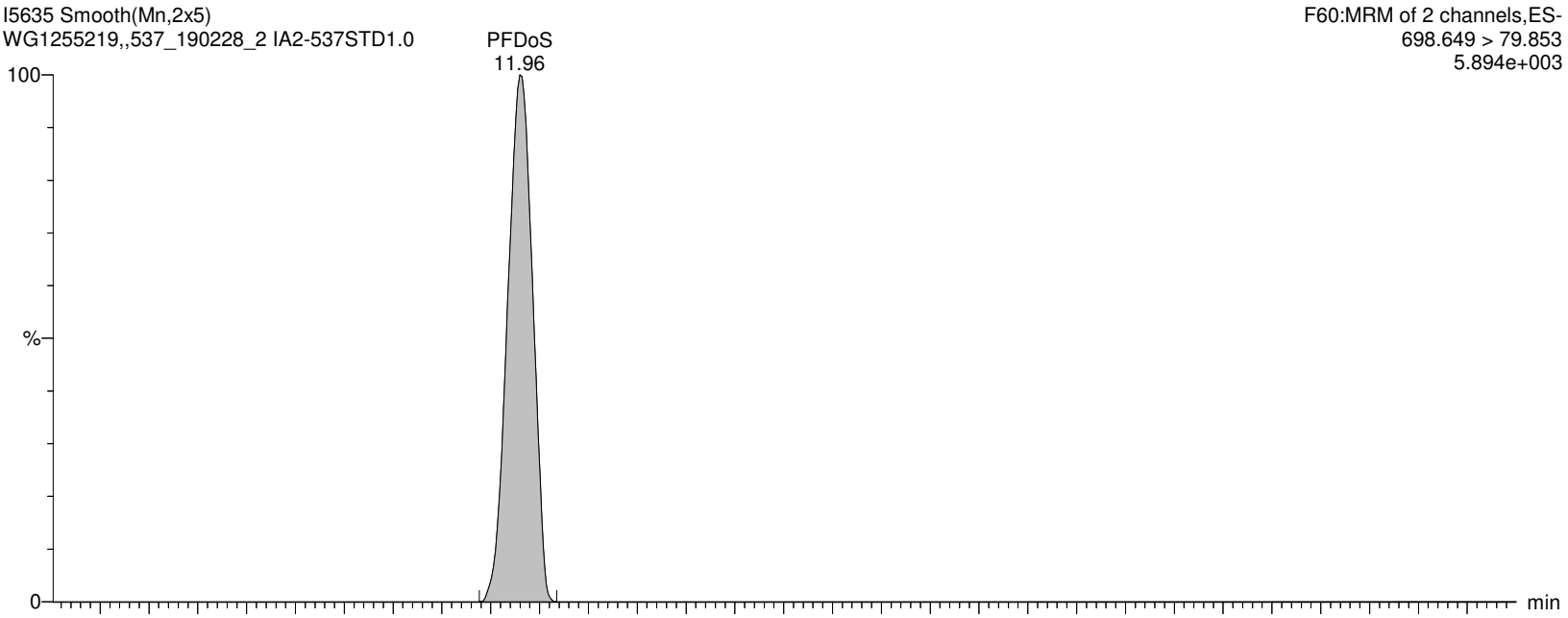


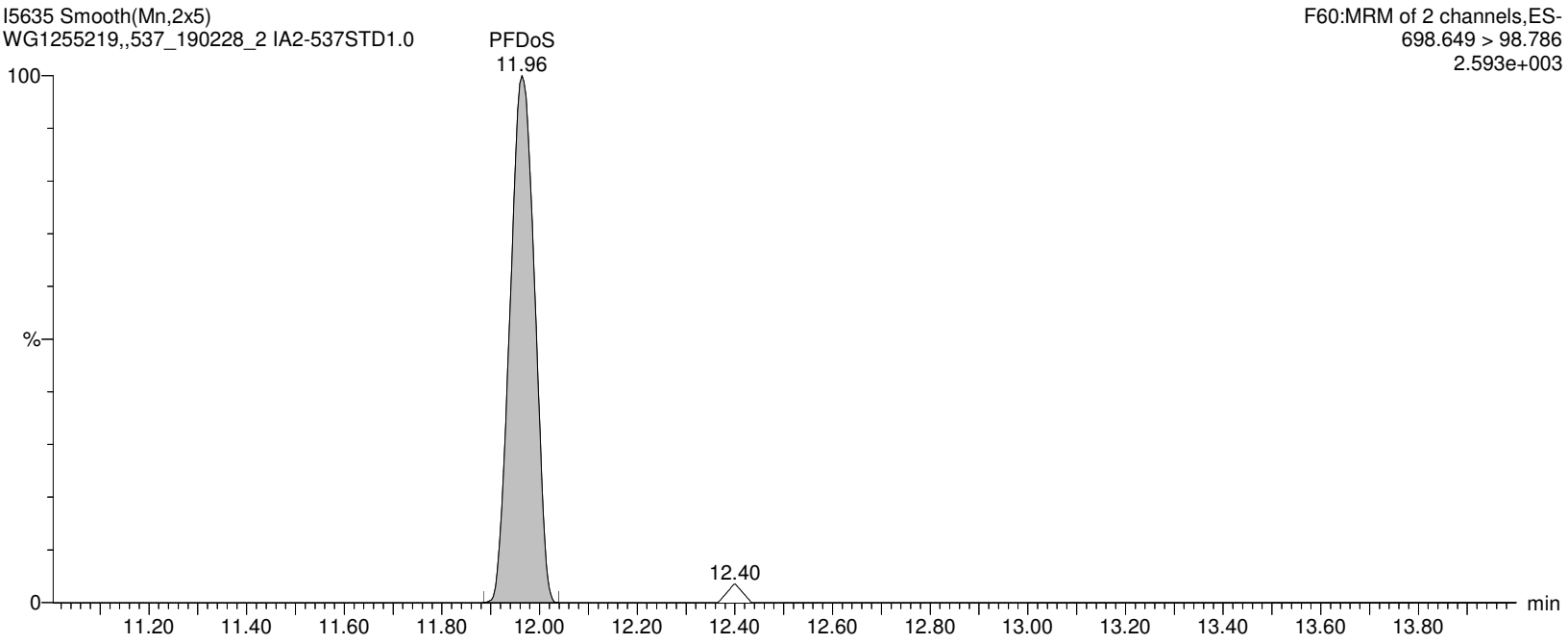
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:32 Eastern Daylight Time

Name: I5635
ID: IA2-537STD1.0
Date: 01-Jul-2019
Time: 18:13:58
Description: WG1255219,,537_190228_2
User: LCMS02:JW
Vial: 1:A,3
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\181009_TUNE.IPR
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PFDoS



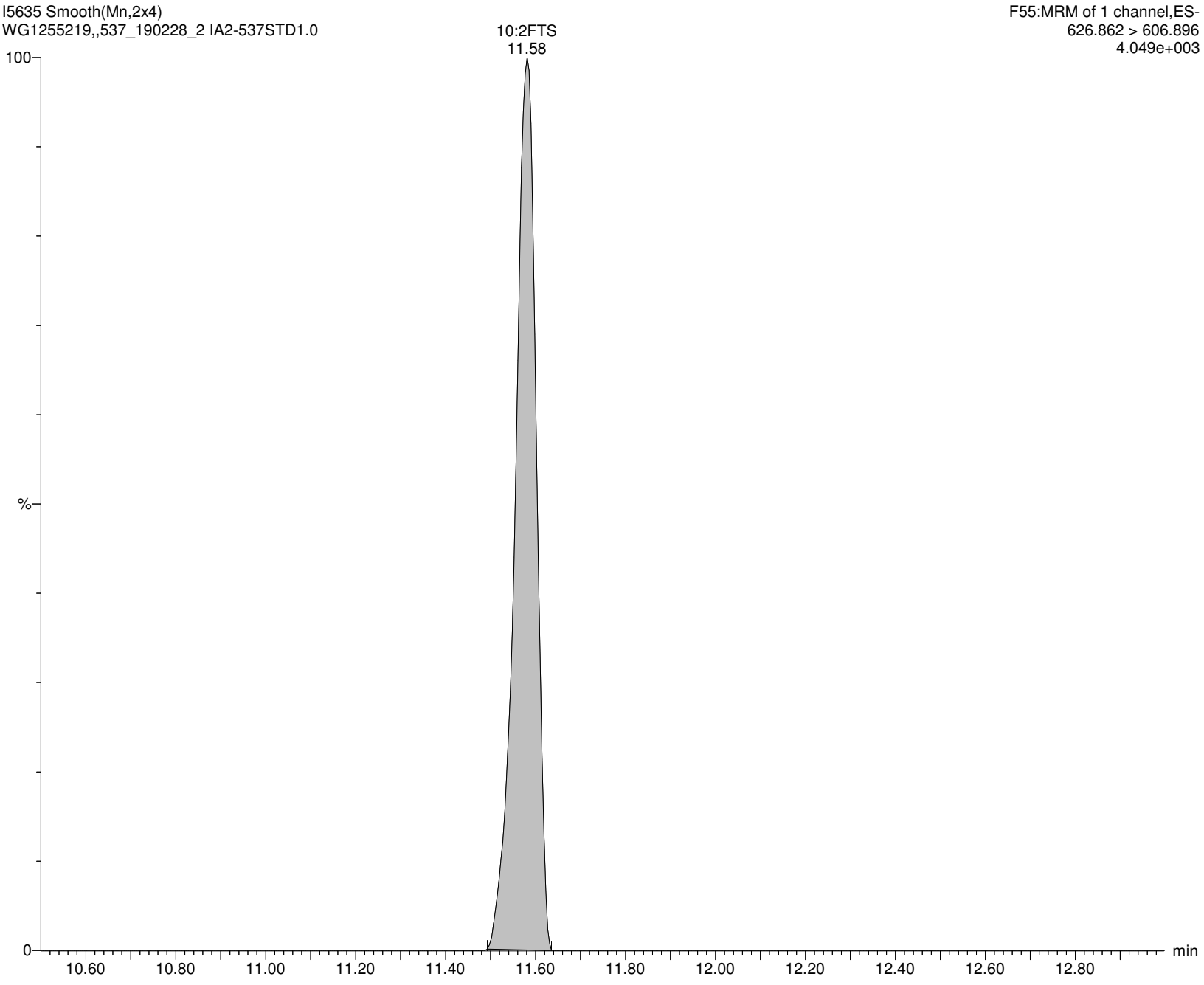


all concentration units in (ng/mL)

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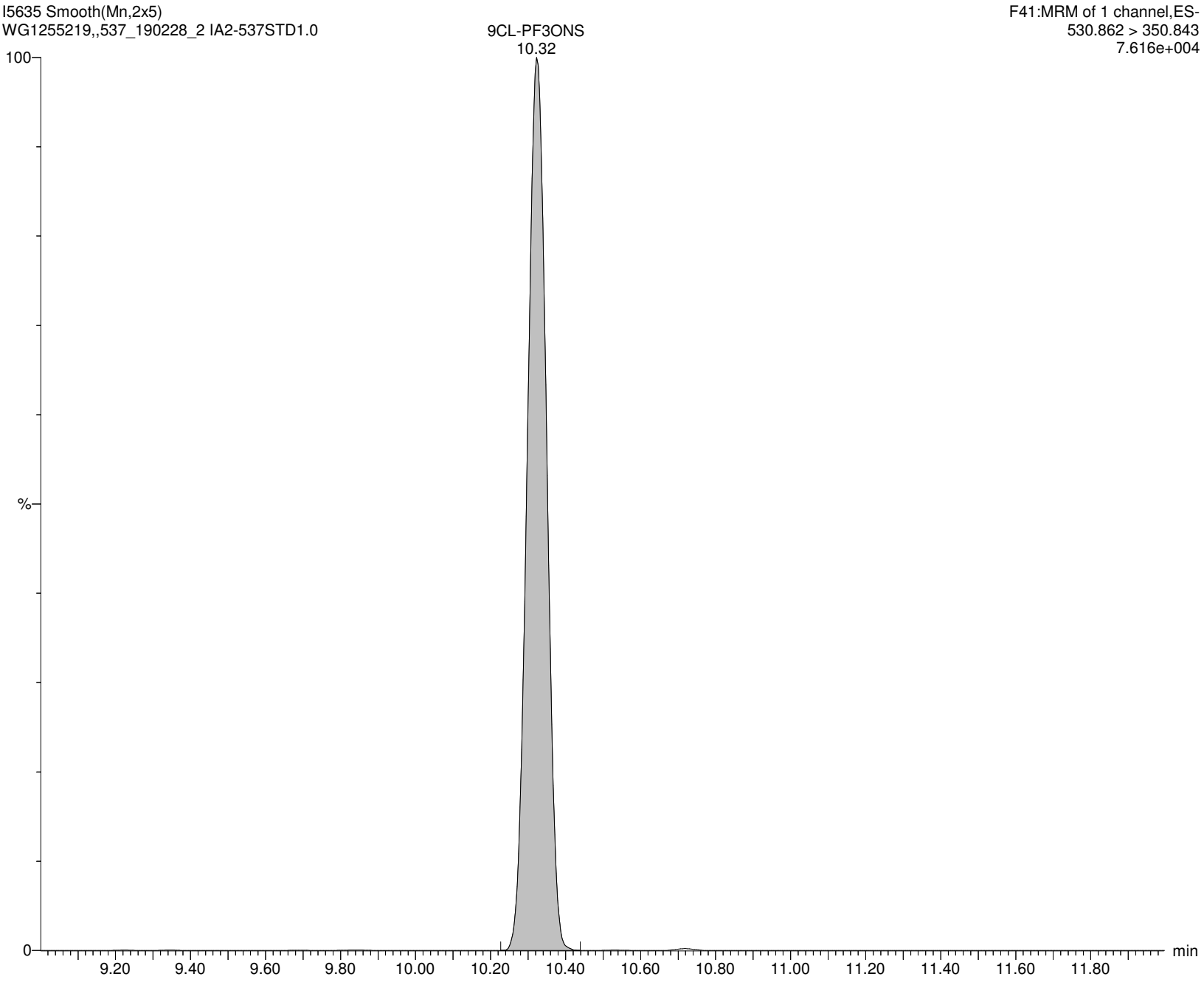


all concentration units in (ng/mL)

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9CL-PF3ONS

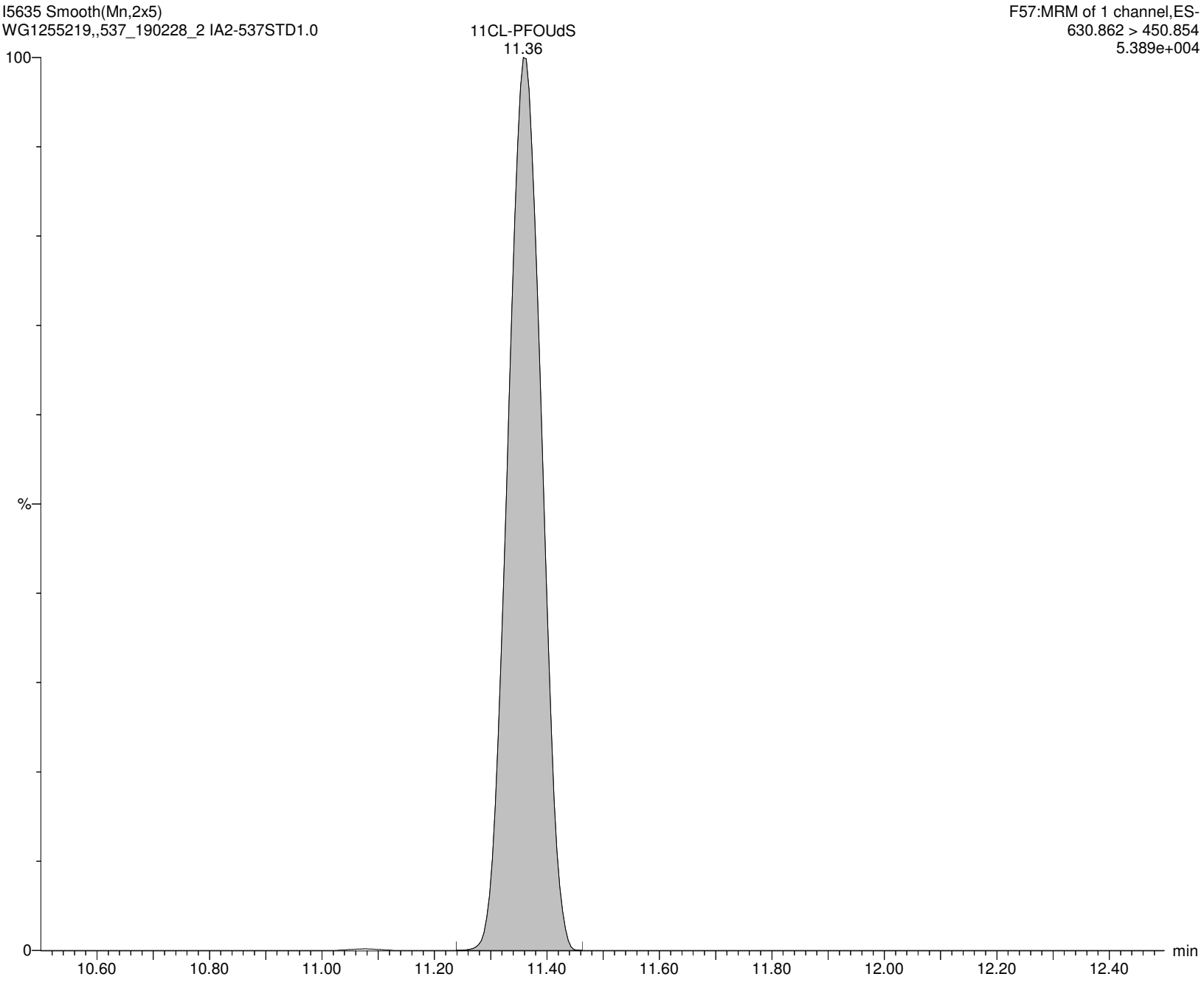


all concentration units in (ng/mL)

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11CL-PFOUdS

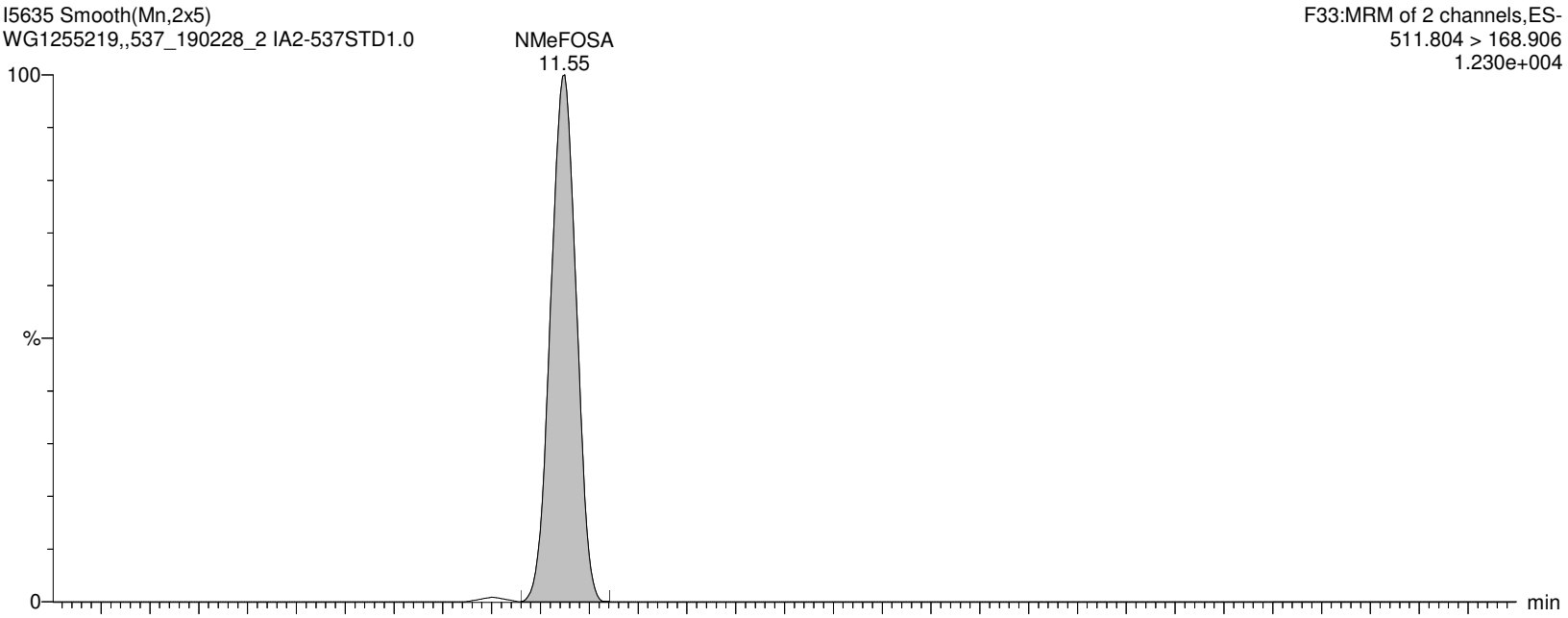


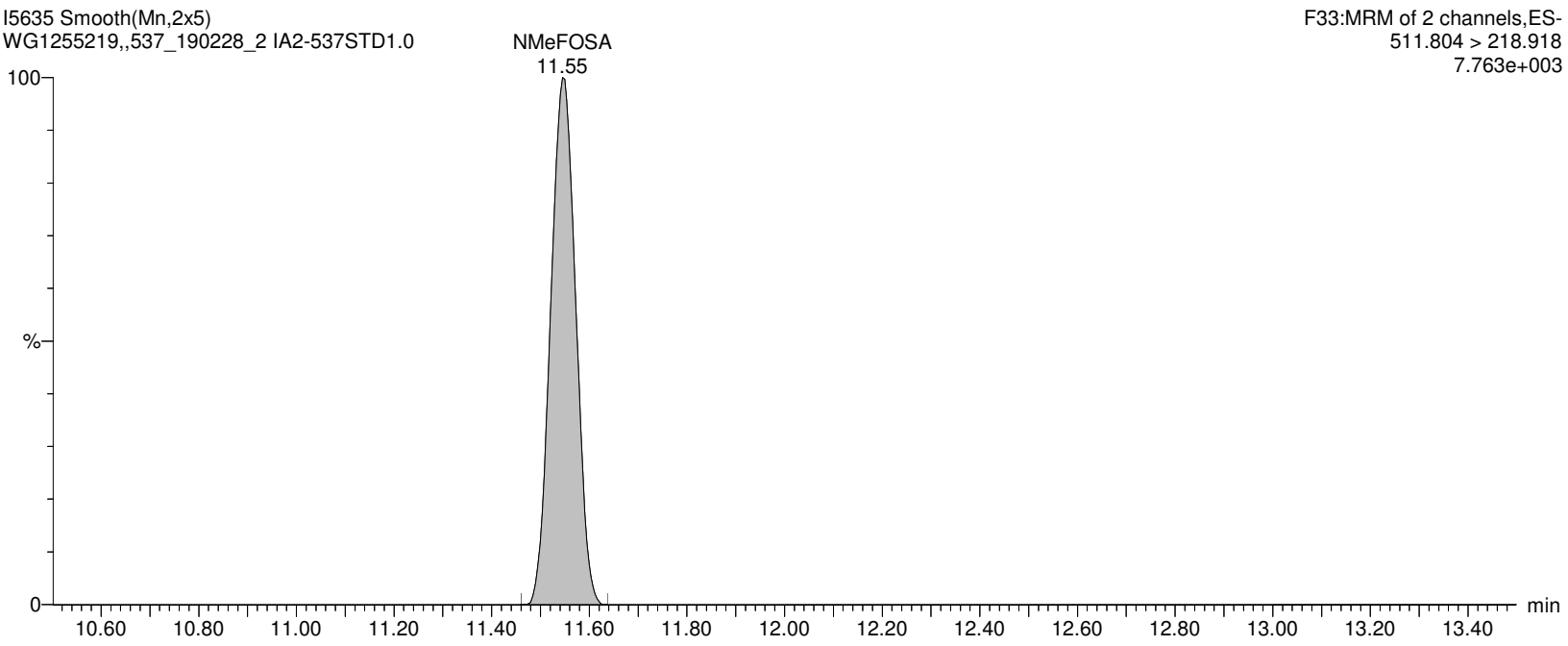
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NMeFOSA



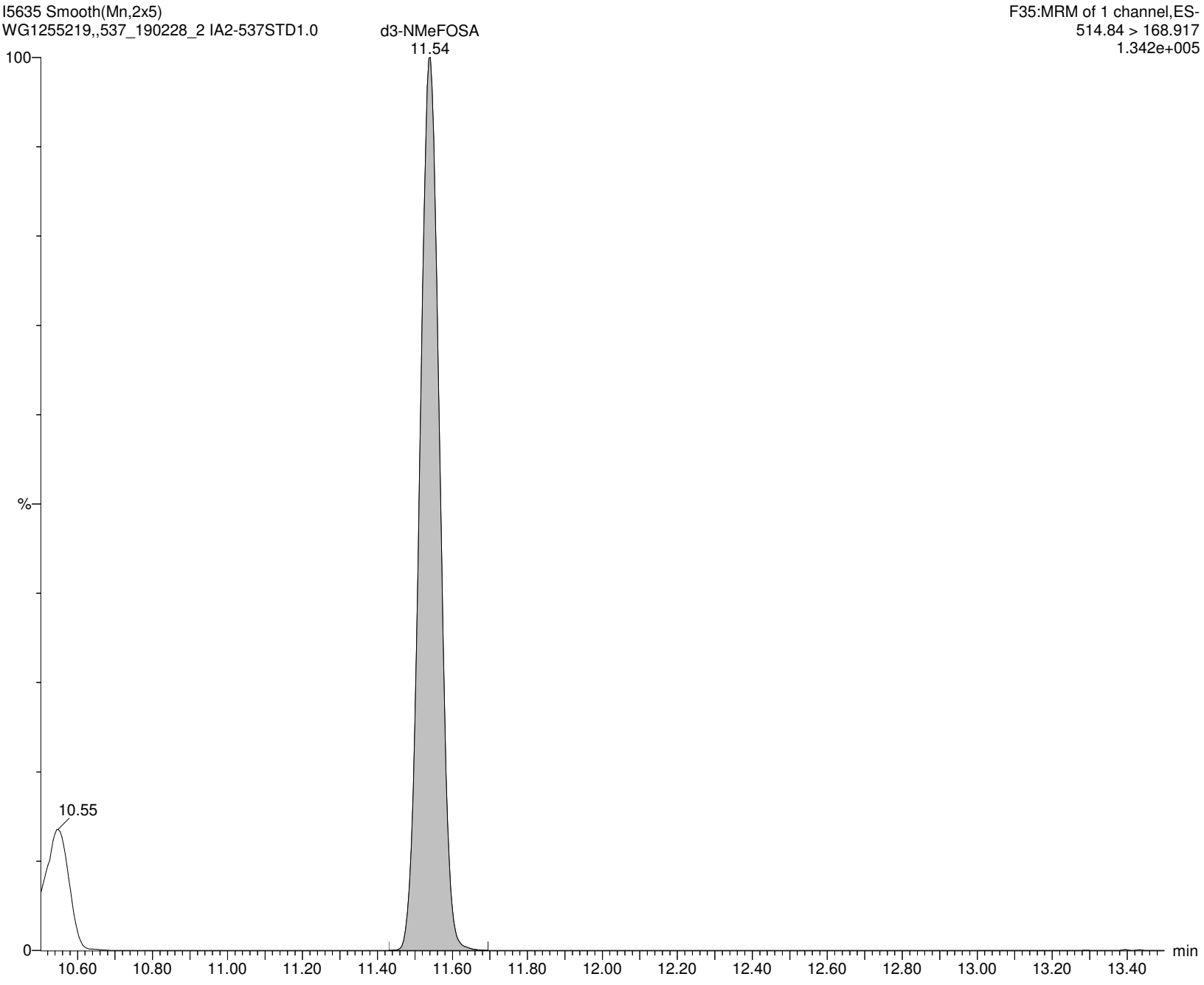


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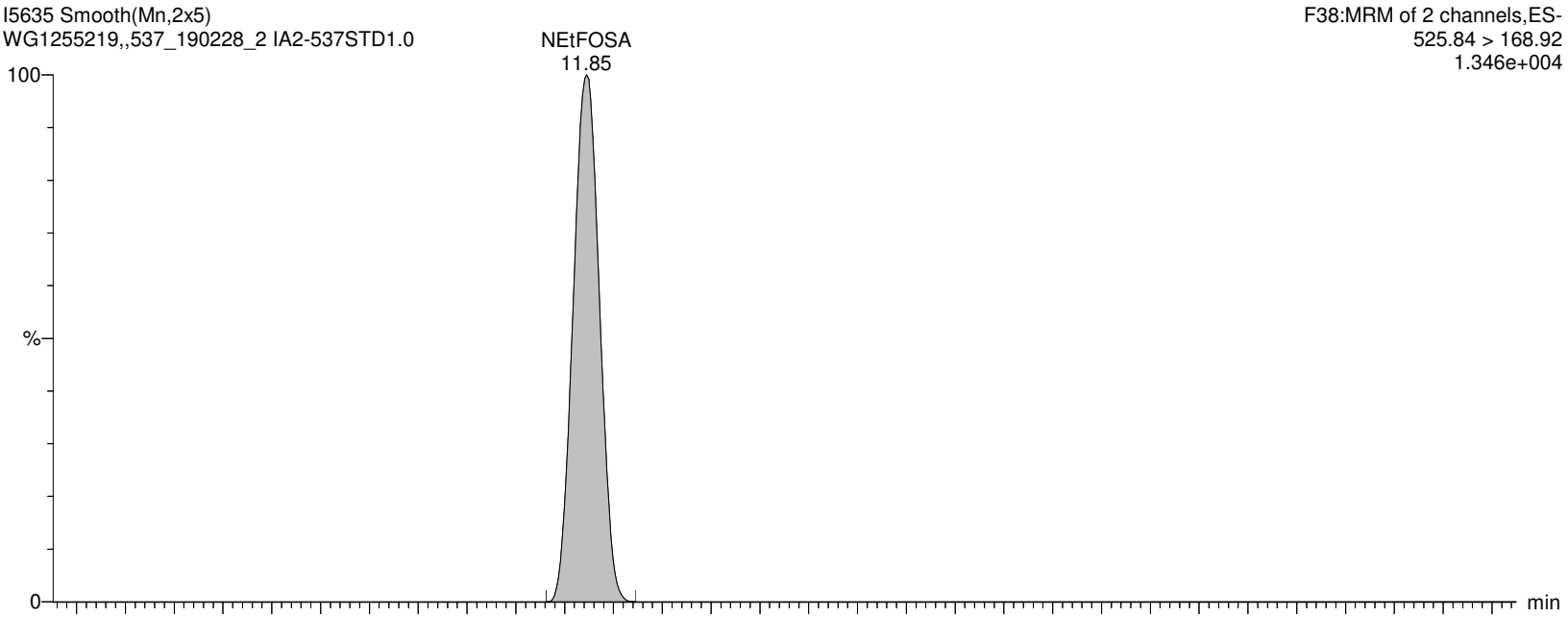


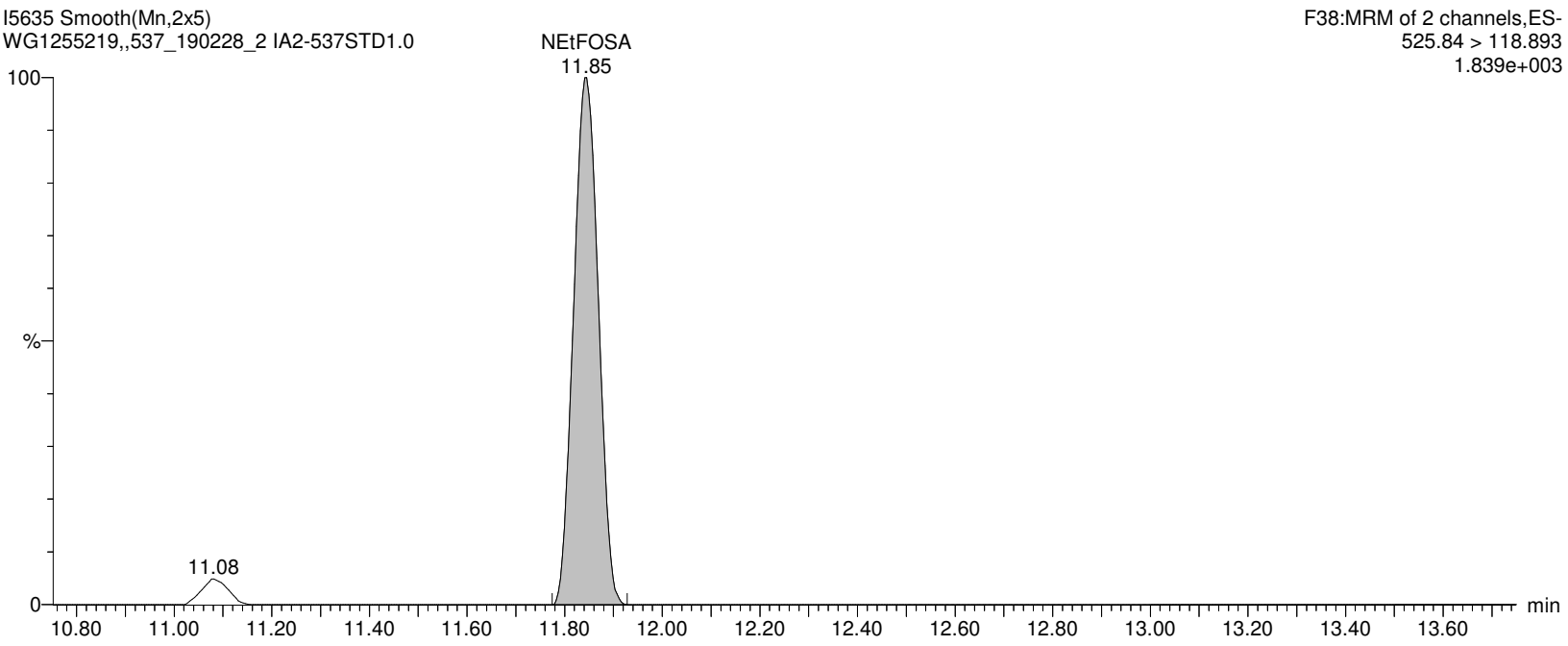
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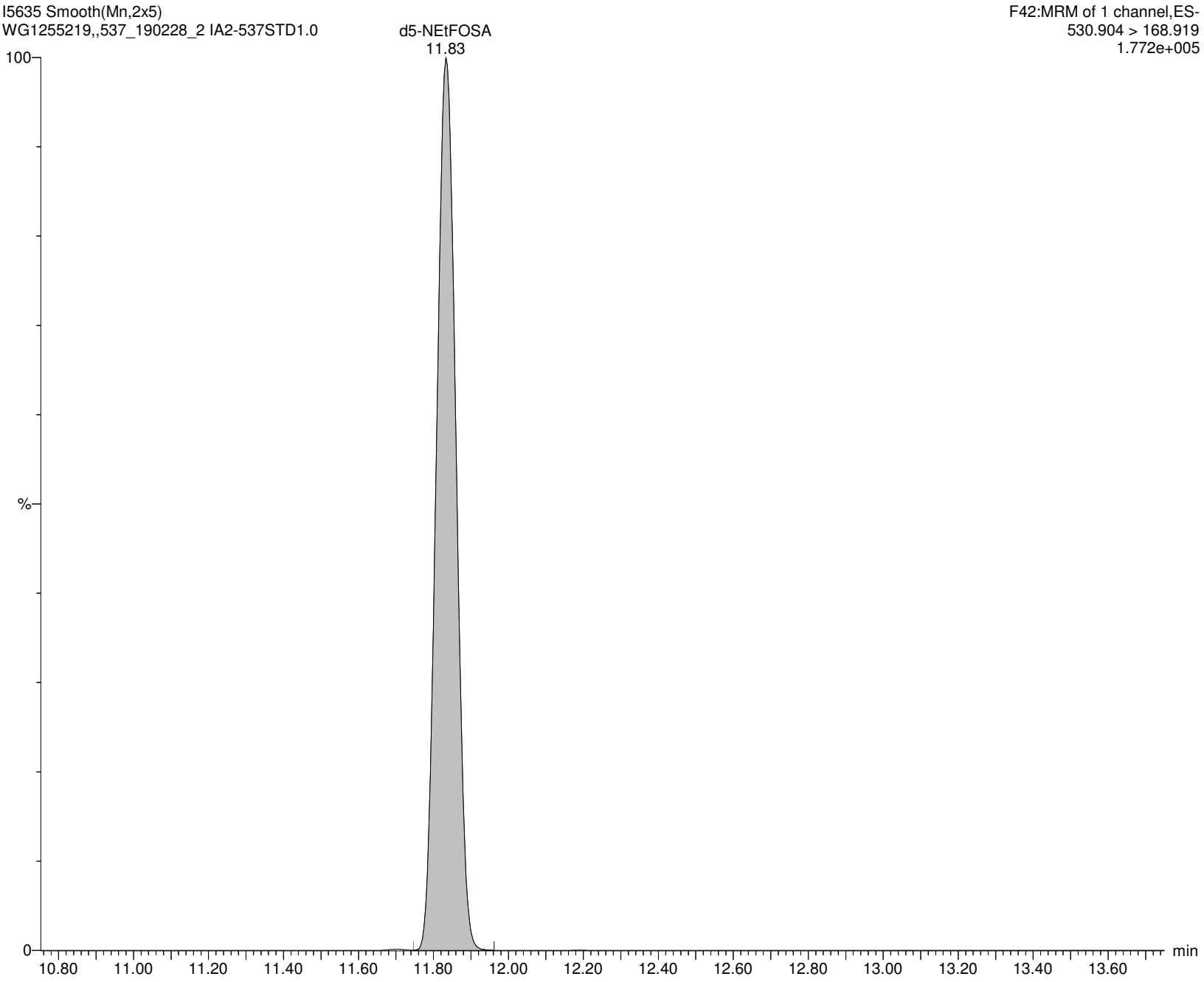


all concentration units in (ng/mL)

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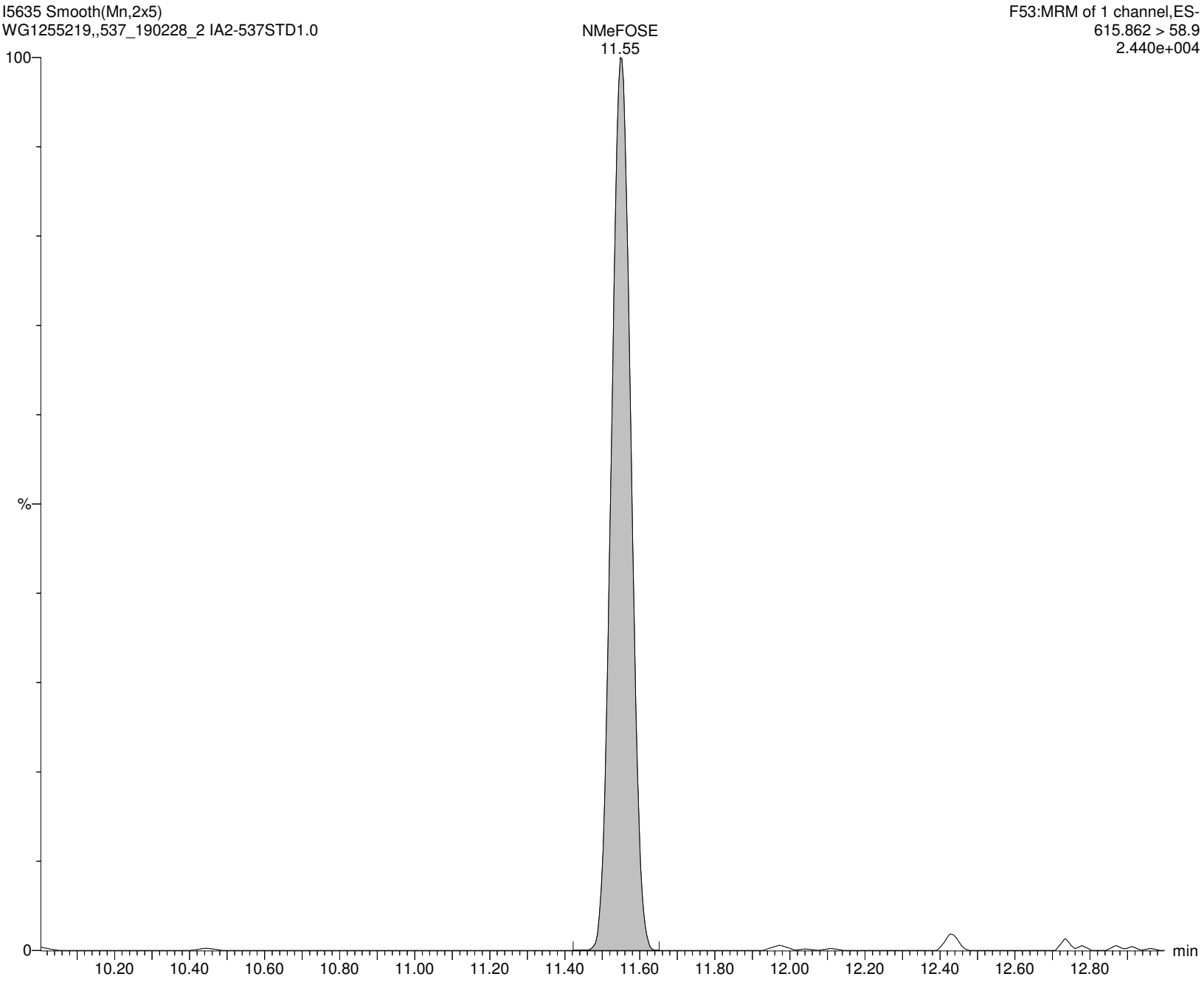


all concentration units in (ng/mL)

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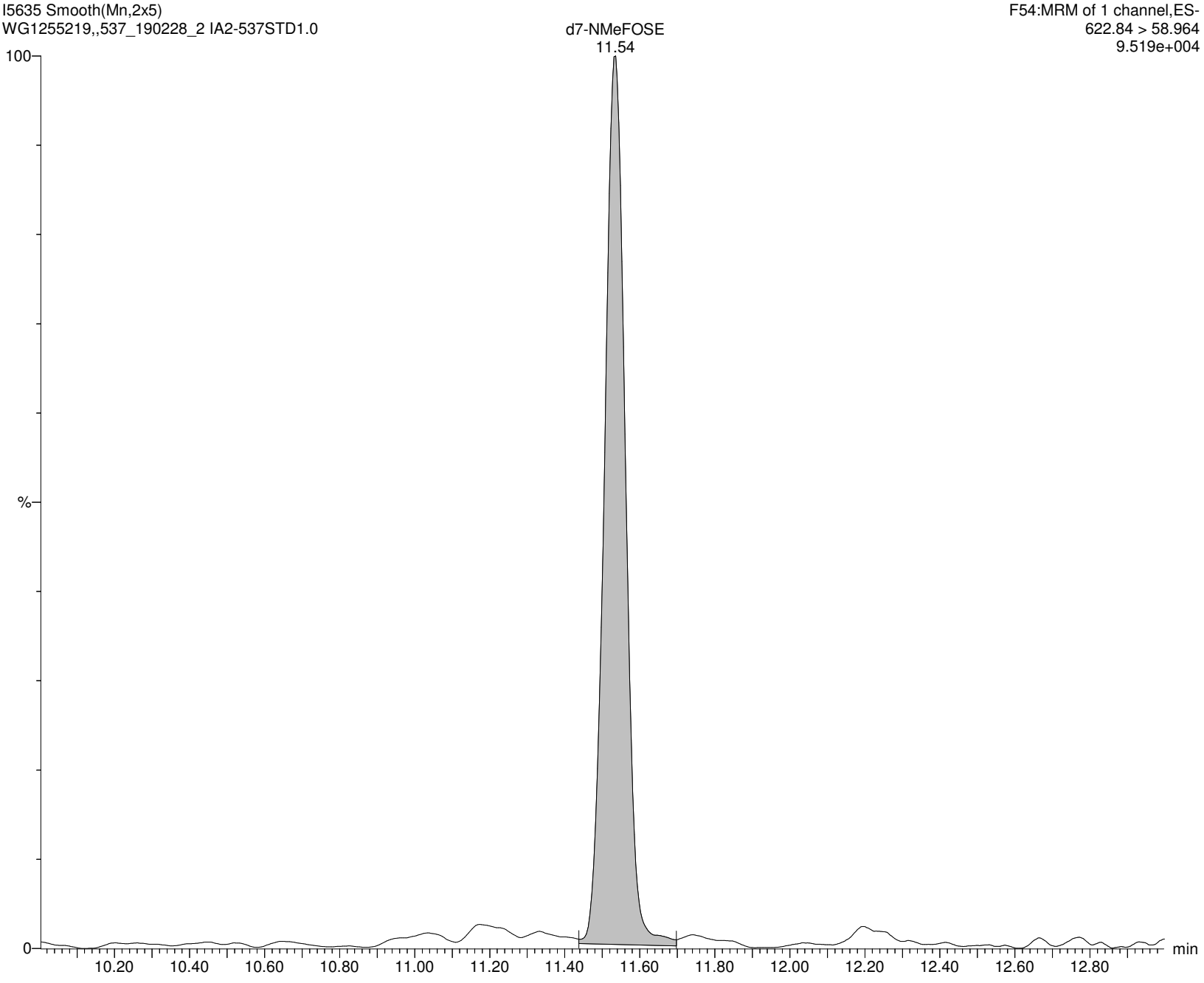


all concentration units in (ng/mL)

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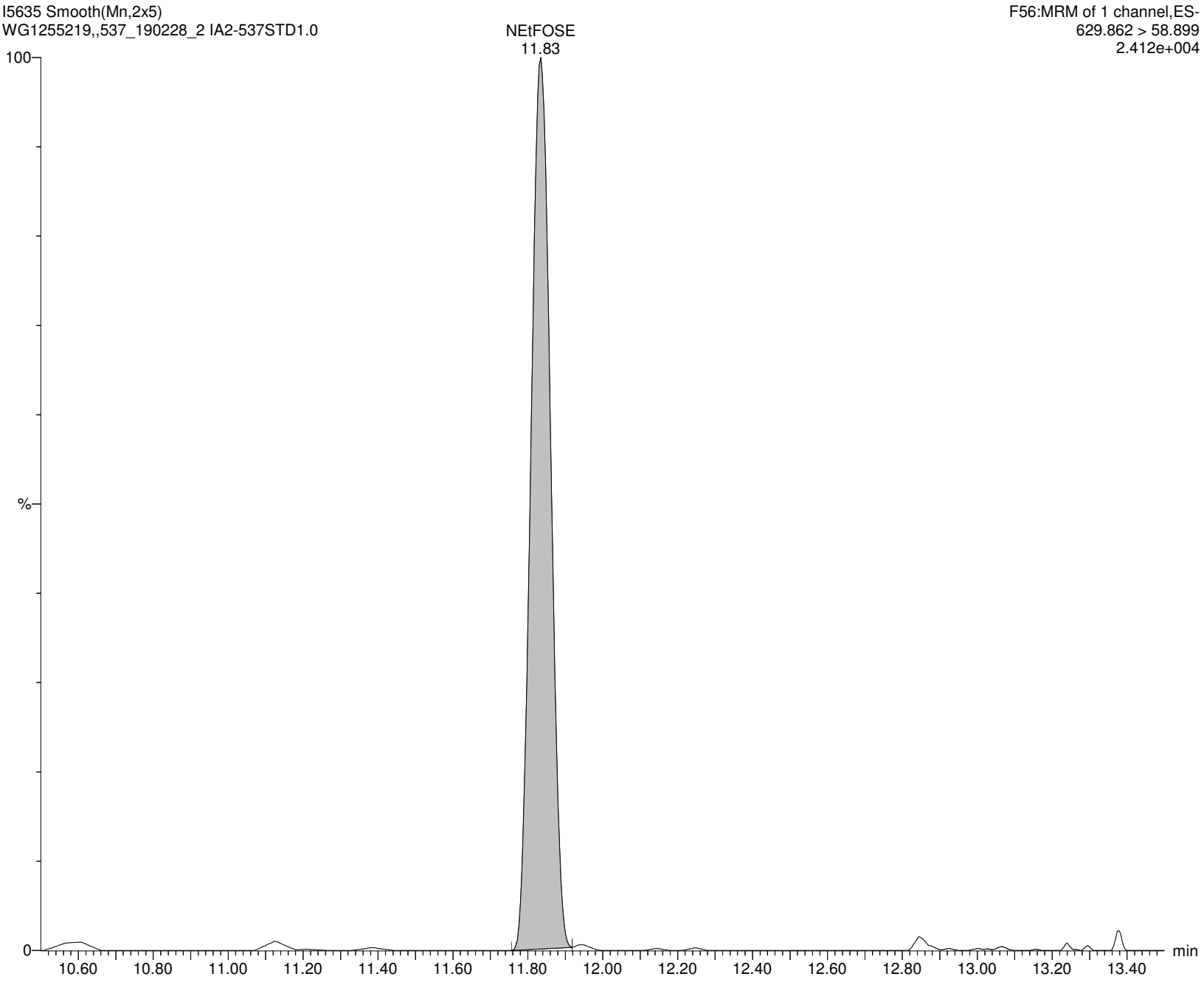


all concentration units in (ng/mL)

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NEtFOSE

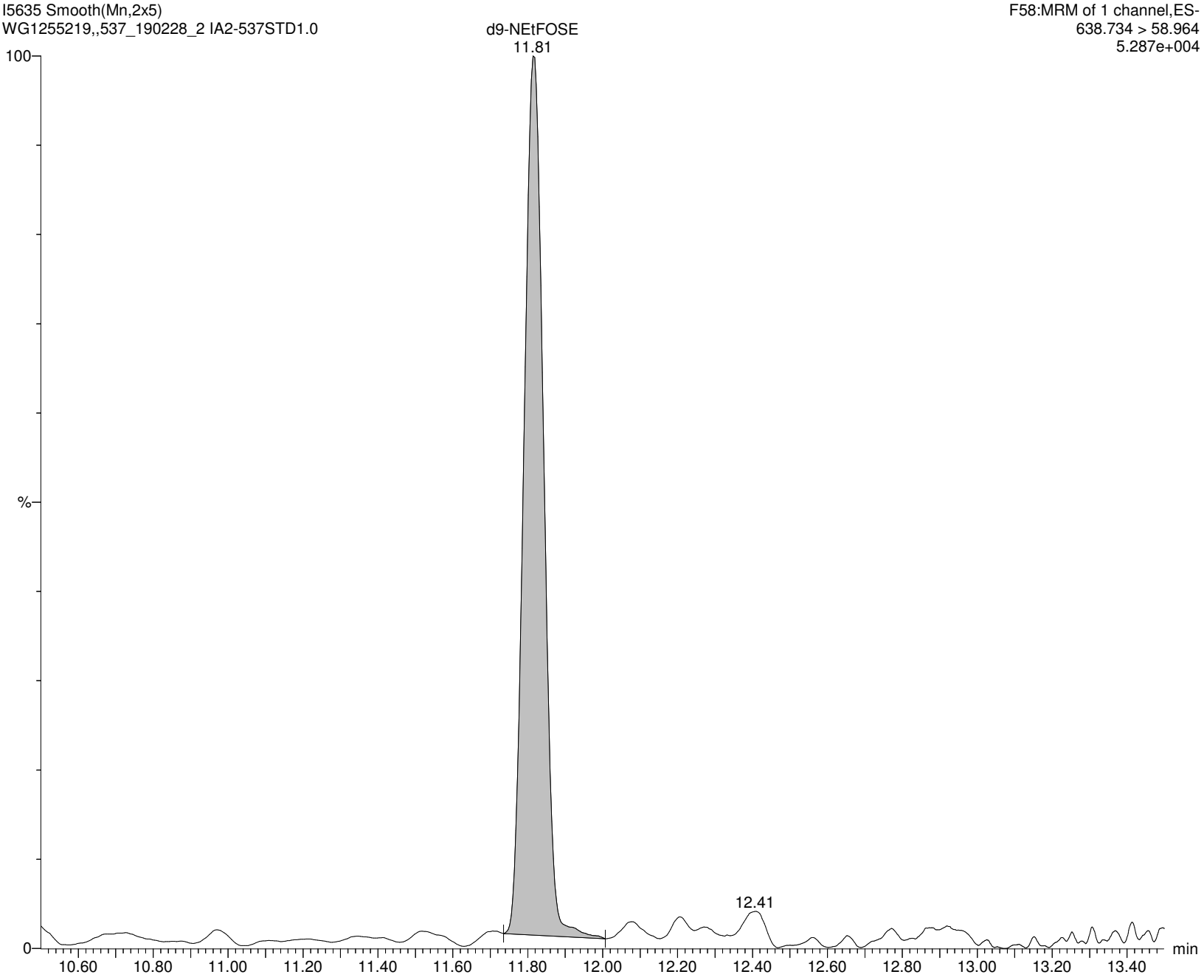


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d9-NEtFOSE



all concentration units in (ng/mL)

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Calibration: C:\MassLynx\Data\2019\190701_537ISO.PRO\CurveDB\190702_ISO_ICAL.cdb 02 Jul 2019 11:07:37

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Time: 18:30:29
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MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.10	212.926 > 169.111	17423		4.352		na	87.0
2	M3PFBA	INT STD	2.10	215.926 > 172.122	38592		9.978		na	99.8
3	MPFBA	INT STD	2.10	216.926 > 172.137	43994		10.166		na	101.7
4	PFPeA	2706-90-3	4.98	262.926 > 219.002	29543		4.531		na	90.6
5	M5PFPEA	INT STD	4.98	267.989 > 223.081	63532		10.372		na	103.7
6	PFBS	375-73-5	5.64	298.926 > 79.923	5837		3.745	1.94	YES	84.6
7	M3PFBS	INT STD	5.64	301.989 > 80.254	10476		9.493		na	94.9
8	4:2FTS	757124-72-4	6.82	326.926 > 306.957	2399		4.582	2.04	NO	98.0
9	M2-4:2FTS	INT STD	6.82	329.117 > 309.079	5098		7.709		na	77.1
10	PFHxA	307-24-4	6.90	312.989 > 269.028	37335		4.617	18.01	NO	92.3
11	M5PFHxA	INT STD	6.90	317.989 > 273.045	81801		10.180		na	101.8
12	PFPeS	2706-91-4	7.22	348.926 > 80.251	4711		4.054	2.01	NO	86.3
13	PFHpA	375-85-9	8.19	362.926 > 319.014	46923		4.553	5.91	NO	91.1
14	M4PFHpA	INT STD	8.19	366.926 > 321.979	103375		10.098		na	101.0
15	br-PFHxS	355-46-4	8.11	398.926 > 80.295	477	M5	0.779	2.27	NO	91.6
16	L-PFHxS	355-46-4	8.35	398.926 > 80.295	2925		3.312	1.16	NO	89.5
17	PFHxS	355-46-4		398.926 > 80.295	3402		4.091		na	
18	M3PFHxS	INT STD	8.35	401.926 > 80.317	6520		9.533		na	95.3
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1	9.15	412.989 > 368.9	42841		4.462	10.00	NO	89.2
21	M2PFOA	INT STD	9.15	415.032 > 369.968	95310		10.454		na	104.5
22	PFOA	335-67-1		412.989 > 368.9	42841		4.462		na	
23	M8PFOA	INT STD	9.15	420.989 > 375.979	96742		10.216		na	102.2
24	6:2FTS	27619-97-2	9.11	426.989 > 406.921	1647		4.599	8.58	NO	96.8
25	M2-6:2FTS	INT STD	9.10	428.989 > 408.917	4497		7.546		na	75.5
26	PFHpS	375-92-8	9.24	448.926 > 80.257	2759		4.546	0.95	NO	95.7
27	PFNA	375-95-1	9.91	462.989 > 418.931	36730		4.546	4.49	NO	90.9
28	M9PFNA	INT STD	9.91	472.053 > 426.947	89059		10.156		na	101.6
29	br-PFOS	1763-23-1	9.70	498.989 > 80.294	701	M5	0.760	4.90	NO	76.0
30	L-PFOS	1763-23-1	9.96	498.989 > 80.294	2719		3.117	1.35	NO	85.4
31	PFOS	1763-23-1		498.989 > 80.294	3420		3.877		na	
32	M4PFOS	INT STD	9.96	503.032 > 80.306	8291		11.148		na	111.5
33	M8PFOS	INT STD	9.96	507.053 > 80.294	8461		9.476		na	94.8
34	PFDA	335-76-2	10.54	513.053 > 468.906	34782		4.327	5.86	NO	86.5
35	M2PFDA	INT STD	10.54	515.053 > 469.934	77892		10.890		na	108.9
36	M6PFDA	INT STD	10.54	519.053 > 473.931	88894		10.207		na	102.1
37	8:2FTS	39108-34-4	10.53	526.926 > 506.818	1448		4.958		na	103.3
38	M2-8:2FTS	INT STD	10.53	529.053 > 508.945	2721		8.320		na	83.2
39	PFNS	68259-12-1	10.57	548.989 > 80.249	3973		4.728	1.42	NO	98.5

all concentration units in (ng/mL)

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User: LCMS02:JW
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MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.91	573.096 > 418.987	8084		9.354		na	93.5
41	NMeFOSAA	2355-31-9	10.92	570.053 > 418.917	3495		4.257	3.10	NO	85.1
42	PFUnA	2058-94-8	11.08	562.989 > 518.903	36472		4.446	7.58	NO	88.9
43	M7-PFUDA	INT STD	11.08	570.053 > 524.923	79888		10.373		na	103.7
44	PFDS	335-77-3	11.09	598.926 > 80.314	3440		5.518	1.13	YES	114.4
45	FOSA	754-91-6	10.93	497.989 > 78.245	12900		4.342	257.89	NO	86.8
46	M8FOSA	INT STD	10.93	506.053 > 78.286	25867		9.979		na	99.8
47	d5-NEtFOSAA	INT STD	11.20	589.117 > 418.929	7284		9.301		na	93.0
48	NEtFOSAA	2991-50-6	11.21	583.989 > 418.927	2955		4.012	3.01	NO	80.2
49	PFDoA	307-55-1	11.55	612.989 > 568.967	37152		4.672	14.97	NO	93.4
50	MPFDOA	INT STD	11.55	614.989 > 569.92	82863		9.718		na	97.2
51	PFTrDA	72629-94-8	11.97	663.053 > 618.969	41337		5.536	11.24	NO	110.7
52	PFTA	376-06-7	12.33	713.053 > 668.976	28474		4.572	9.53	NO	91.4
53	M2PFTEDA	INT STD	12.33	715.053 > 669.945	71610		9.939		na	99.4
54	M3HFPO-DA	INT STD	7.33	331.989 > 286.995	34710		140.874		na	70.4
55	HFPO-DA	13252-13-6	7.33	284.819 > 169.094	4156		90.881	2.50	YES	90.9
56	ADONA	958445-44-8	8.37	376.926 > 251.005	63720		4.585		na	96.9
57	PFHxDA		12.74	813.053 > 769.005	28976		5.150		na	103.0
58	PFODA		12.96	912.989 > 869.032	22869		5.195		na	103.9
59	M2PFHxDA		12.74	815.372 > 770.158	22207		10.118		na	101.2
60	PFDoS		11.96	698.649 > 79.853	2265		5.514	2.11	YES	110.3
61	10:2FTS		11.56	626.862 > 606.896	1529		4.998		na	103.7
62	9CL-PF3ONS		10.32	530.862 > 350.843	24208		4.228		na	90.7
63	11CL-PFOUdS		11.35	630.862 > 450.854	21915		4.345		na	92.3
64	NMeFOSA		11.54	511.804 > 168.906	3936		5.032	1.54	NO	100.6
65	d3-NMeFOSA		11.53	514.84 > 168.917	8365		9.316		na	93.2
66	NEtFOSA		11.84	525.84 > 168.92	4434		4.477	6.26	NO	89.5
67	d5-NEtFOSA		11.83	530.904 > 168.919	11198		9.630		na	96.3
68	NMeFOSE		11.54	615.862 > 58.9	7474		4.717		na	94.3
69	d7-NMeFOSE		11.53	622.84 > 58.964	6262		9.973		na	99.7
70	NEtFOSE		11.83	629.862 > 58.899	7687		5.400		na	108.0
71	d9-NEtFOSE		11.81	638.734 > 58.964	2739		8.841		na	88.4

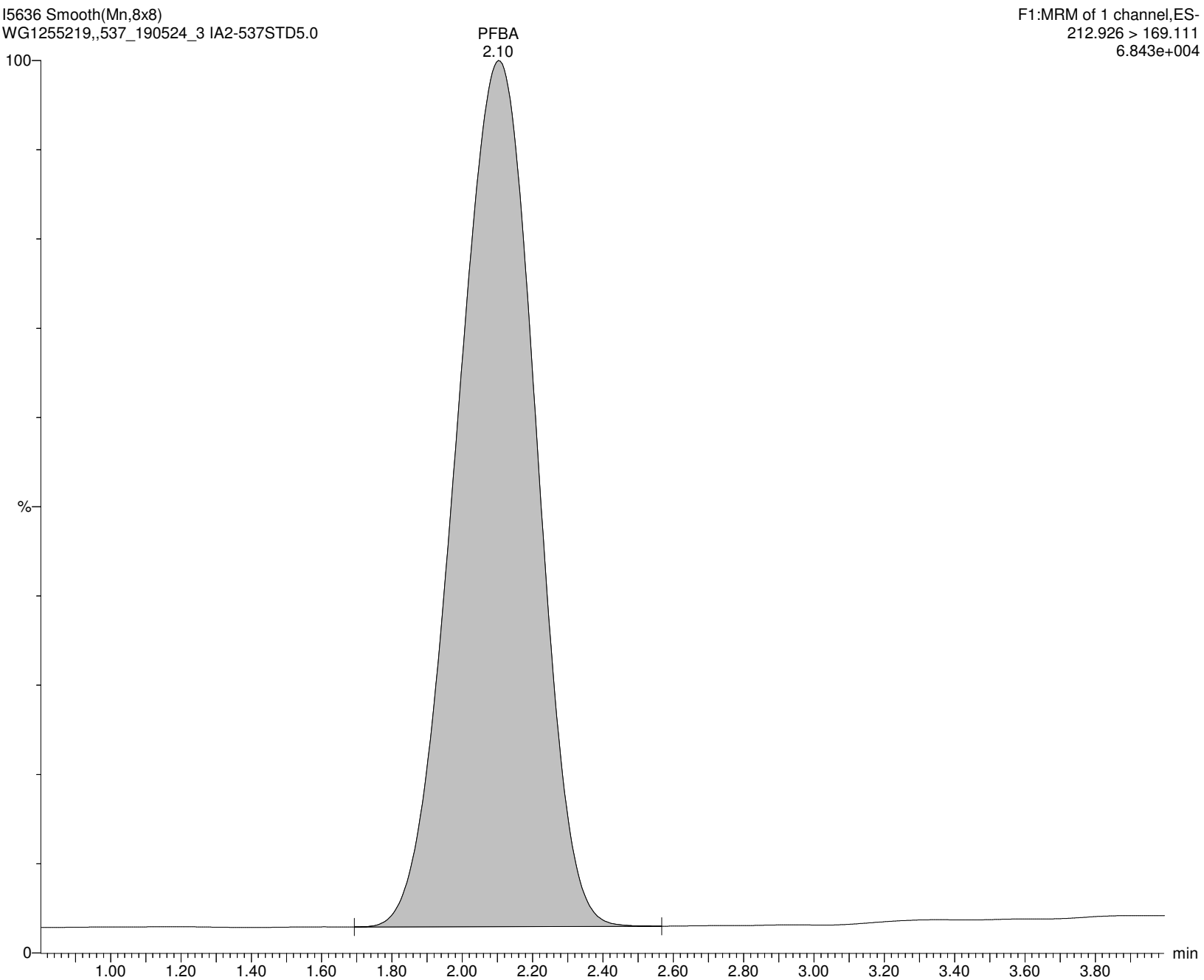
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
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Name: I5636
ID: IA2-537STD5.0
Date: 01-Jul-2019
Time: 18:30:29
Description: WG1255219,,537_190524_3
User: LCMS02:JW
Vial: 1:A,4
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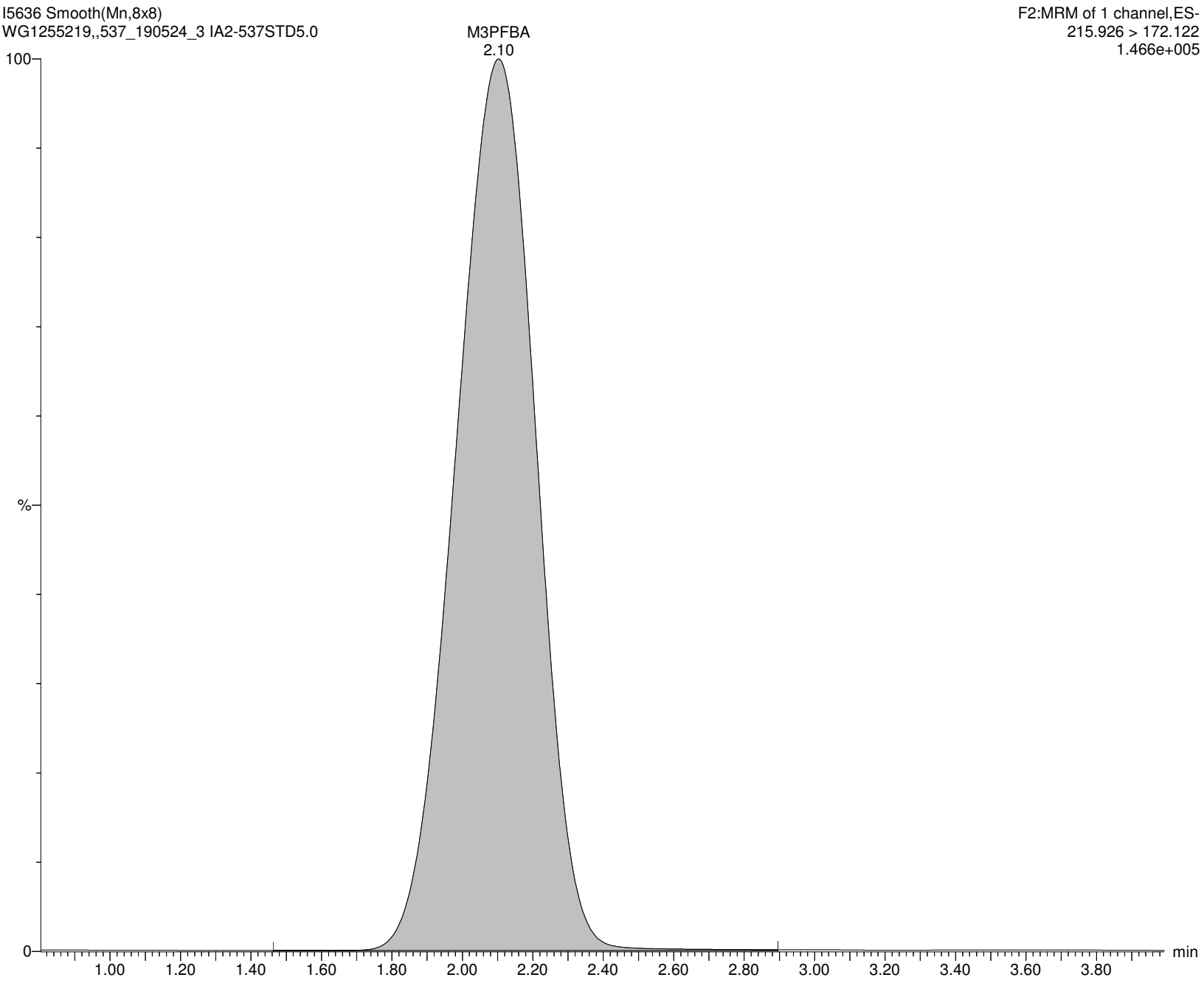


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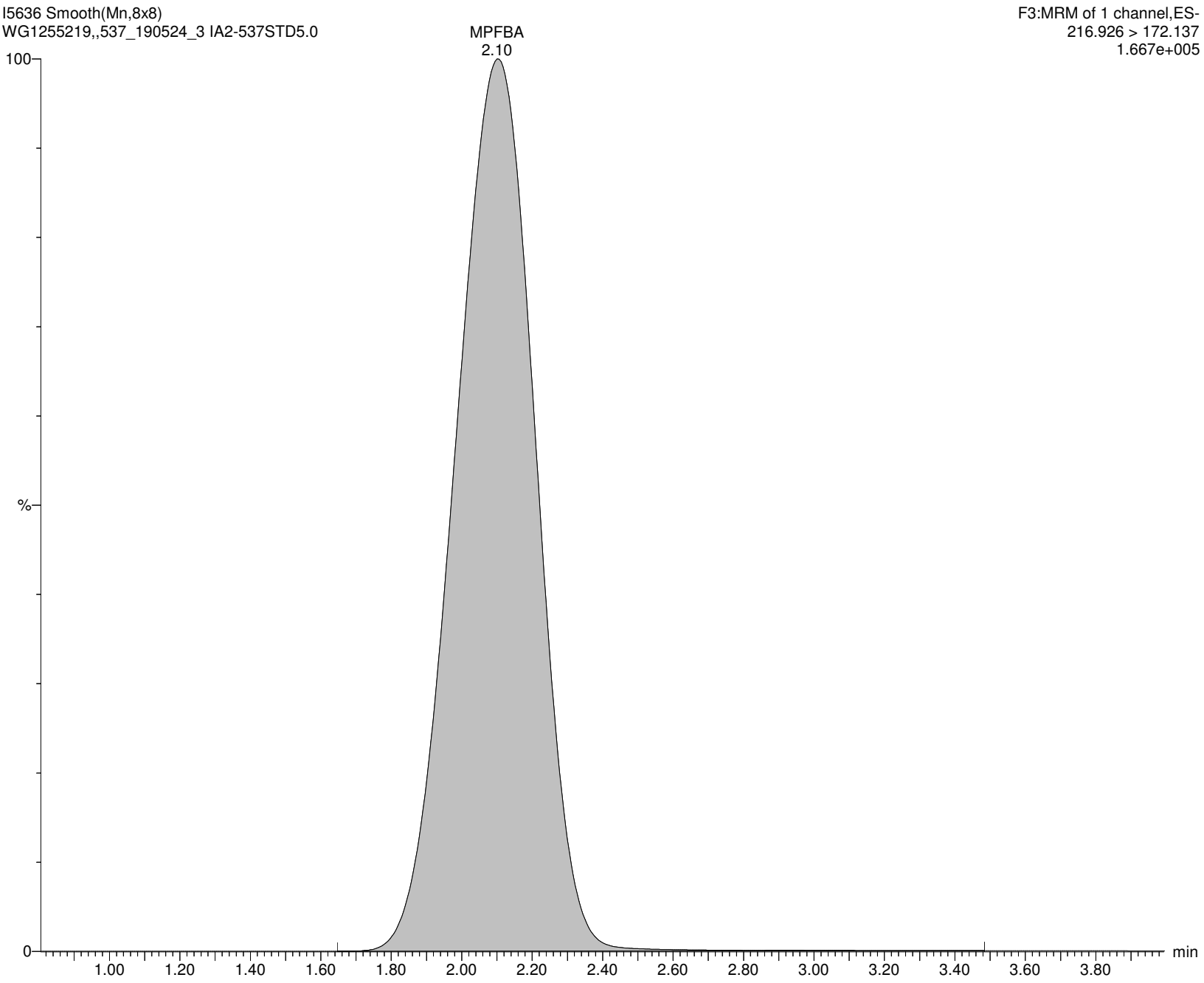


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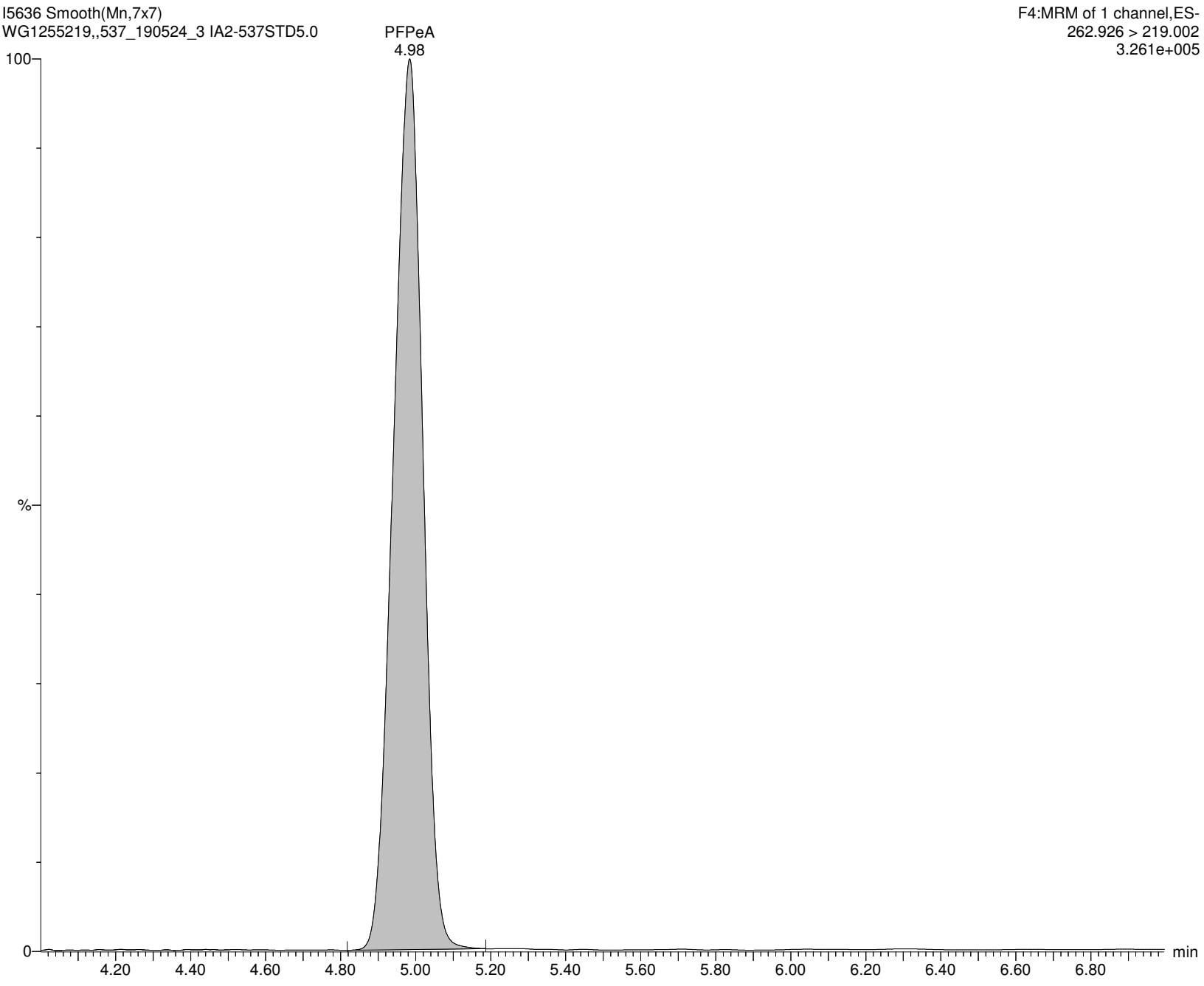


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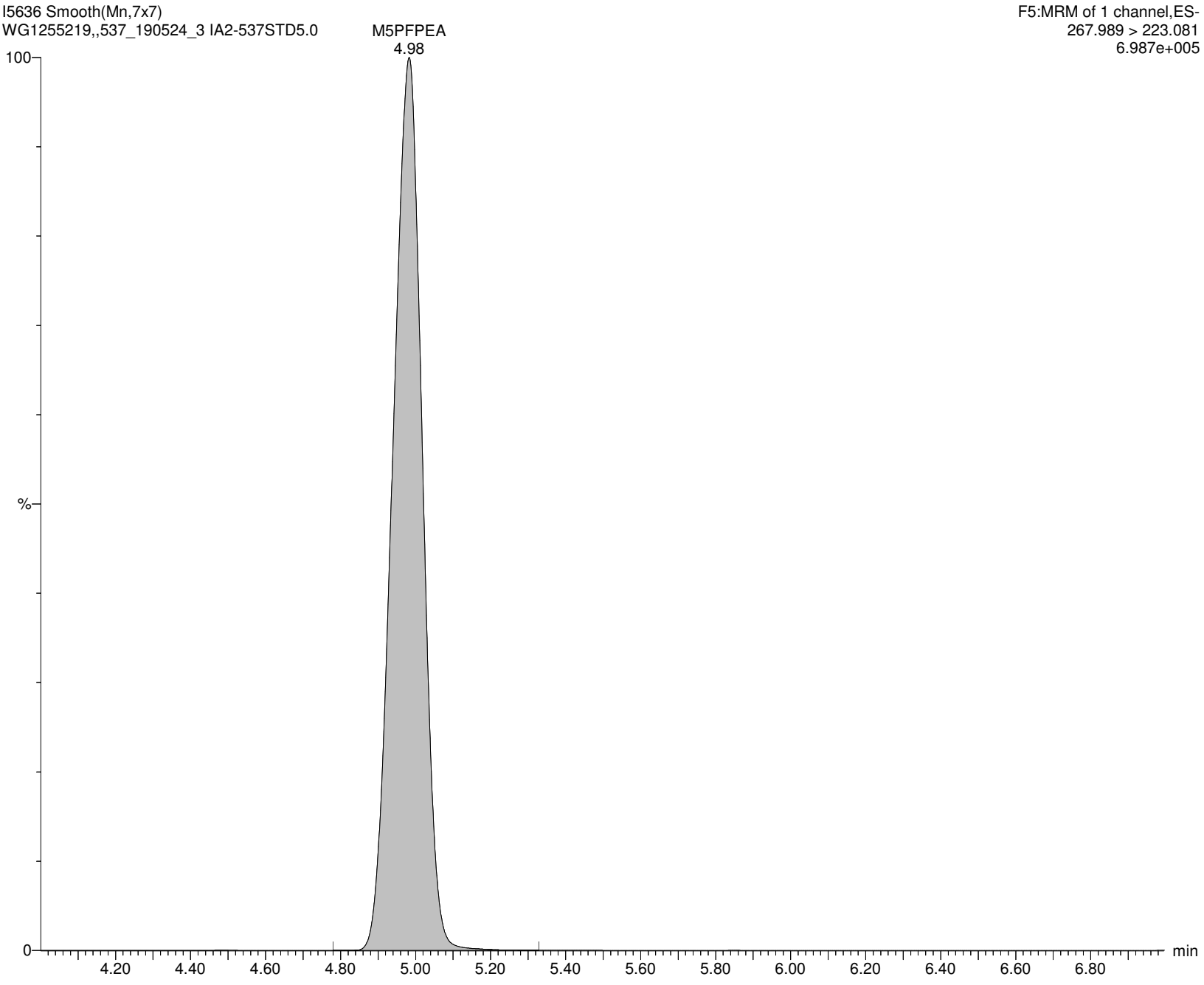


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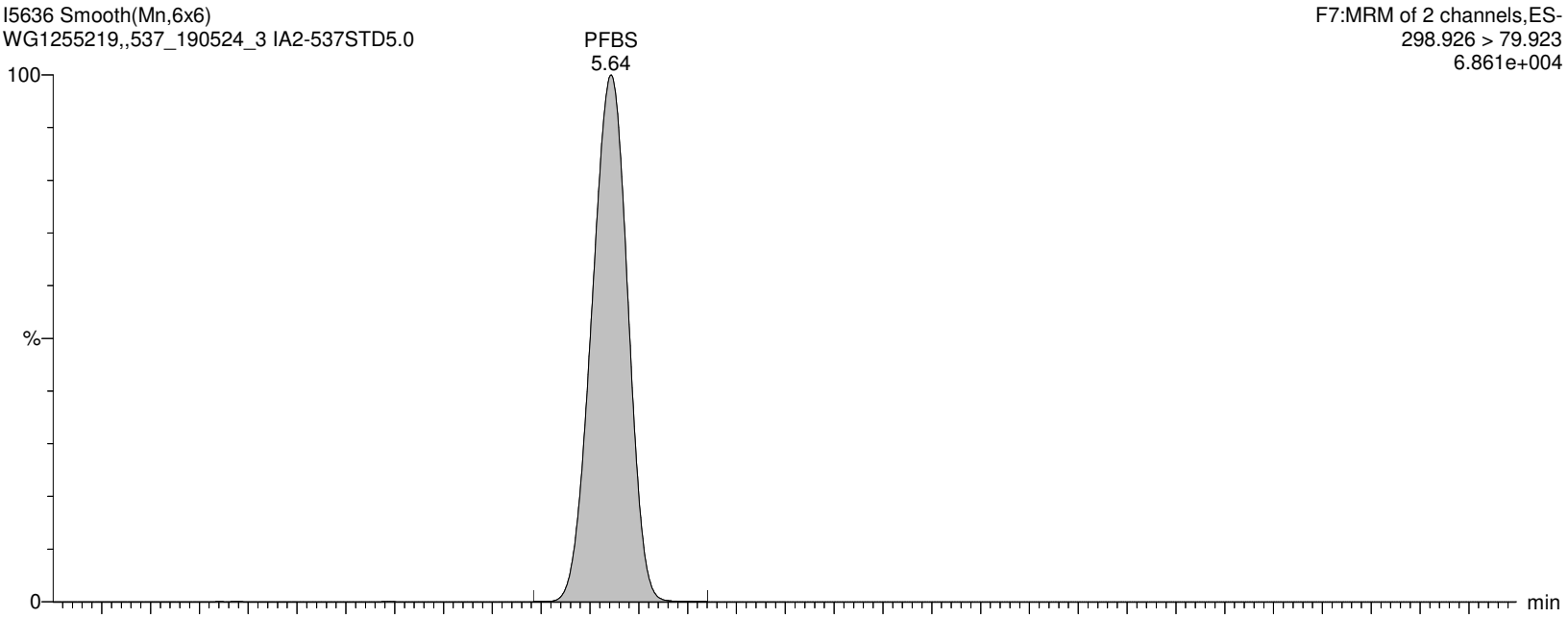


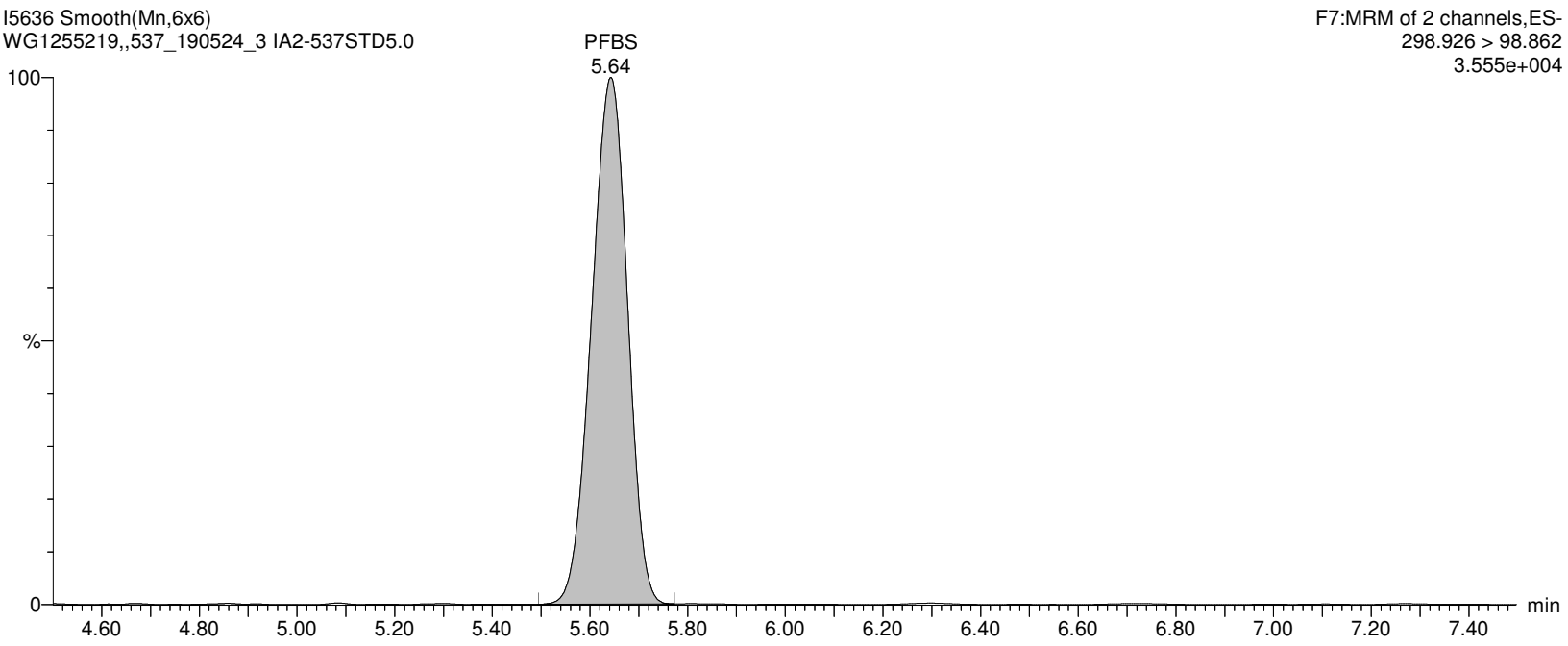
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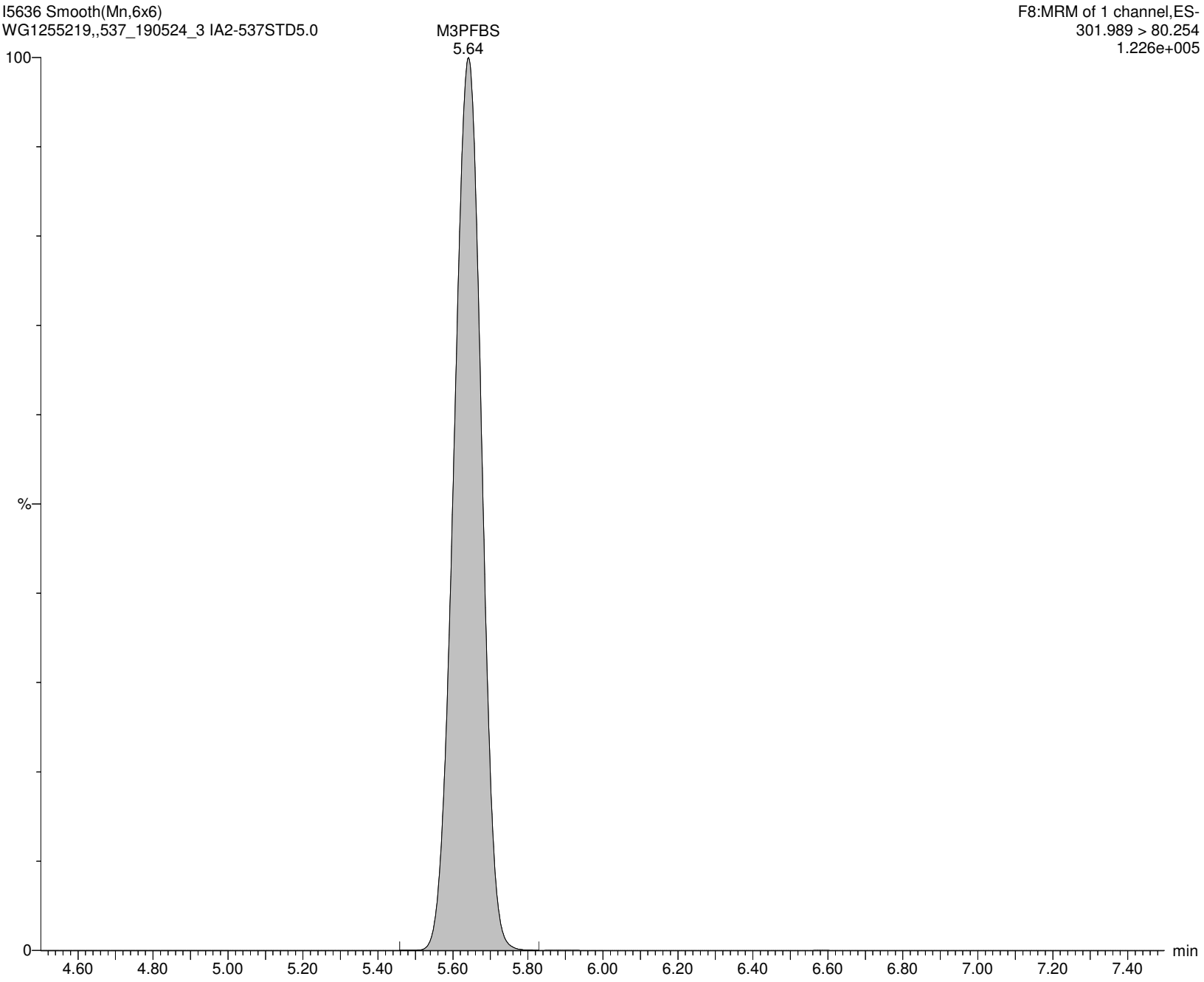


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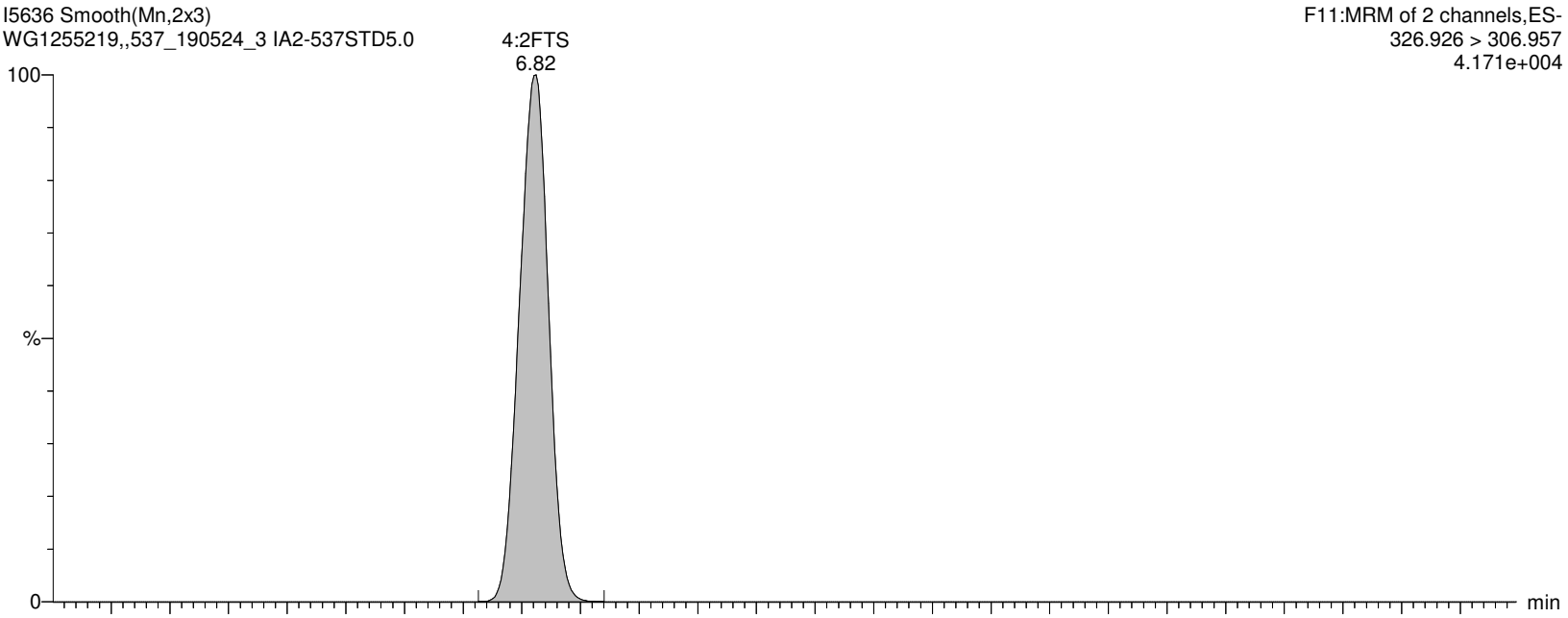


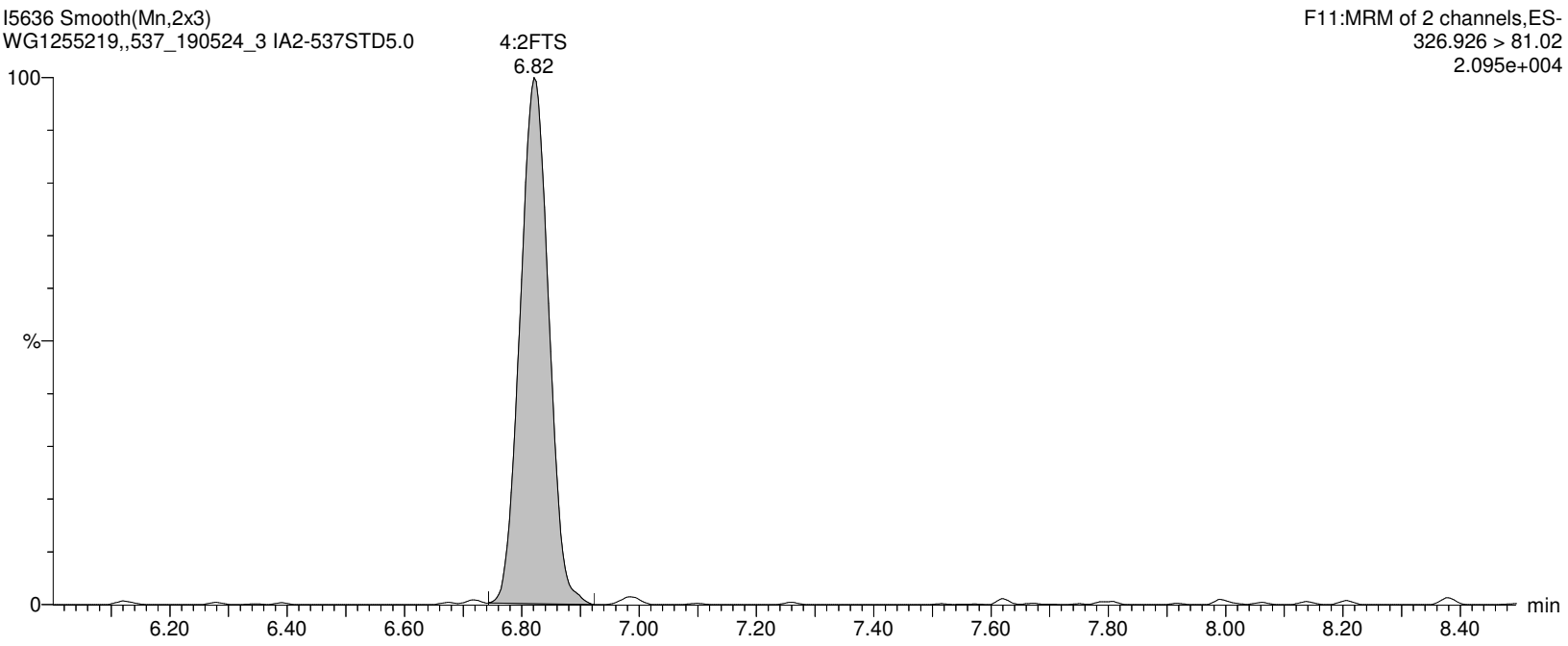
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4:2FTS



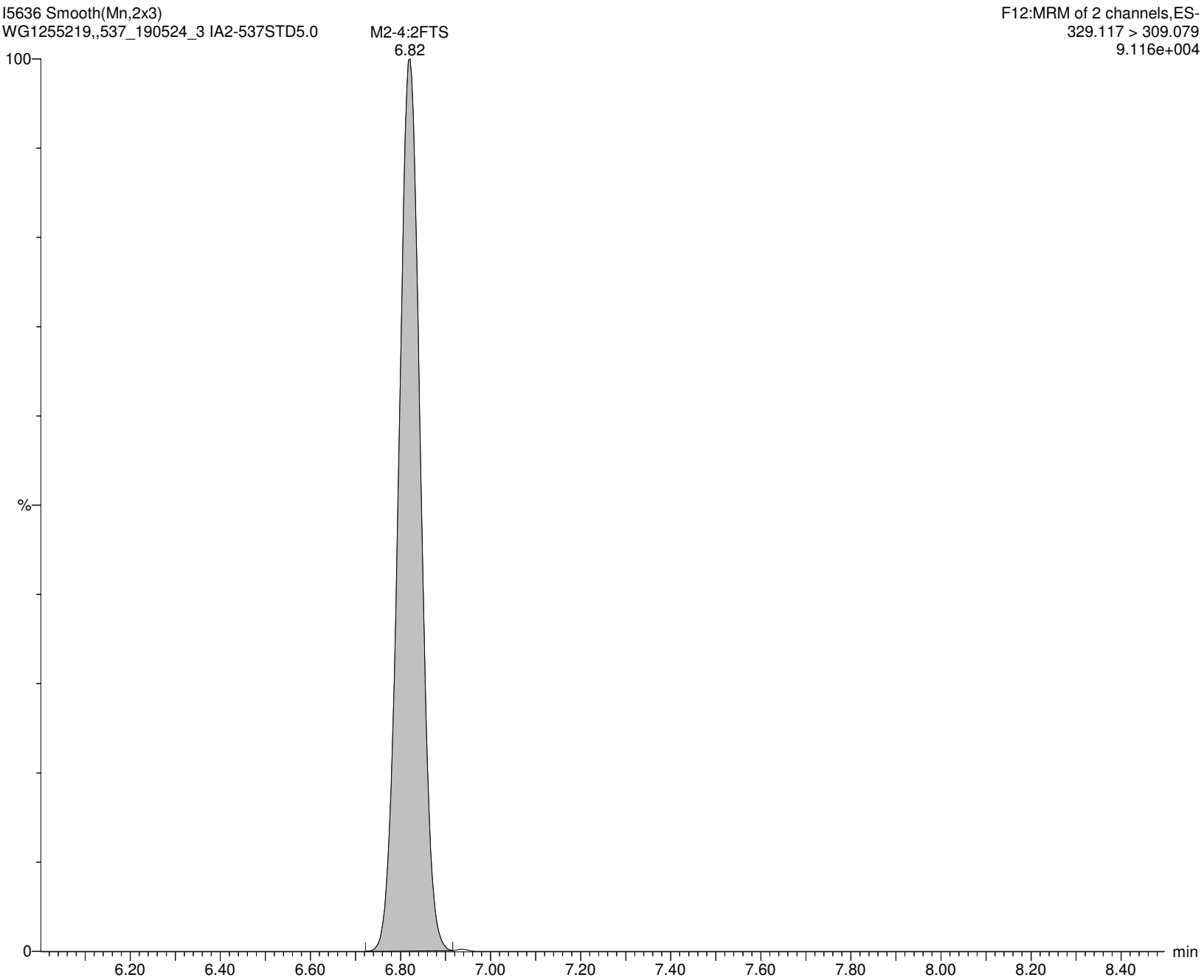


all concentration units in (ng/mL)

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M2-4:2FTS

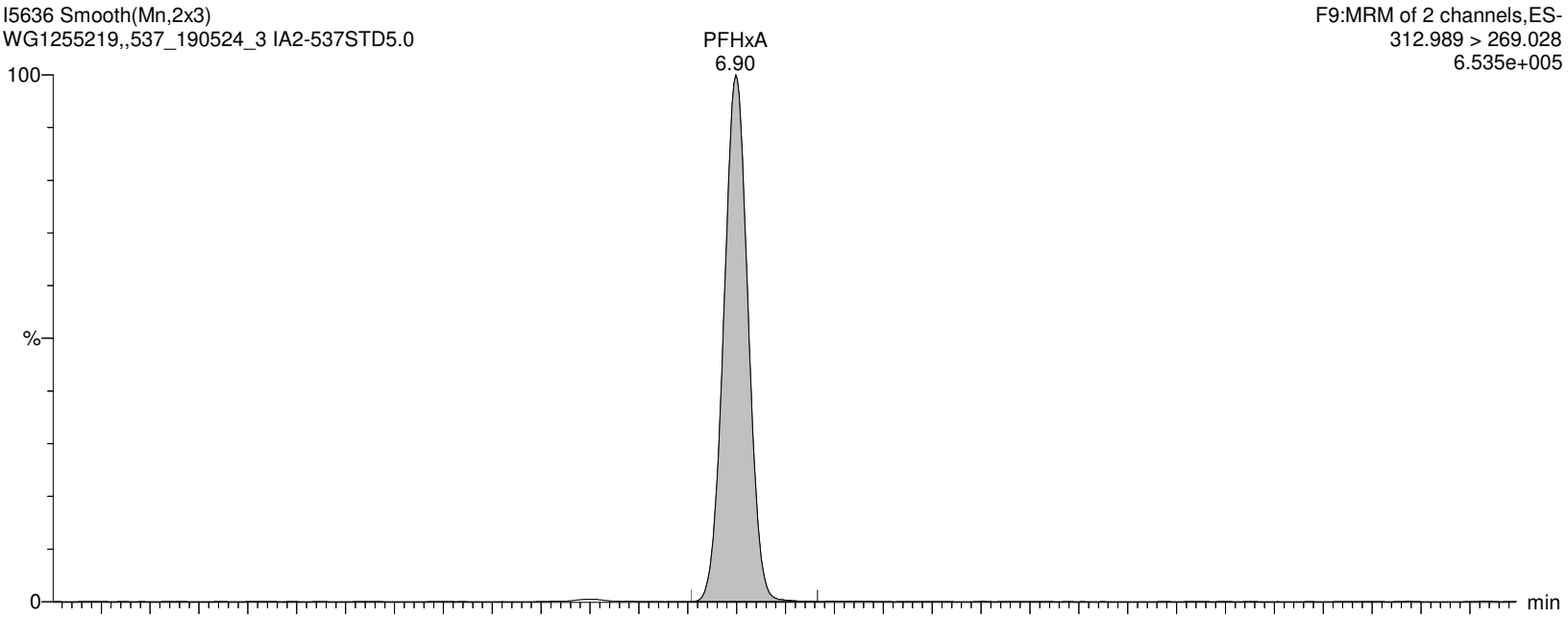


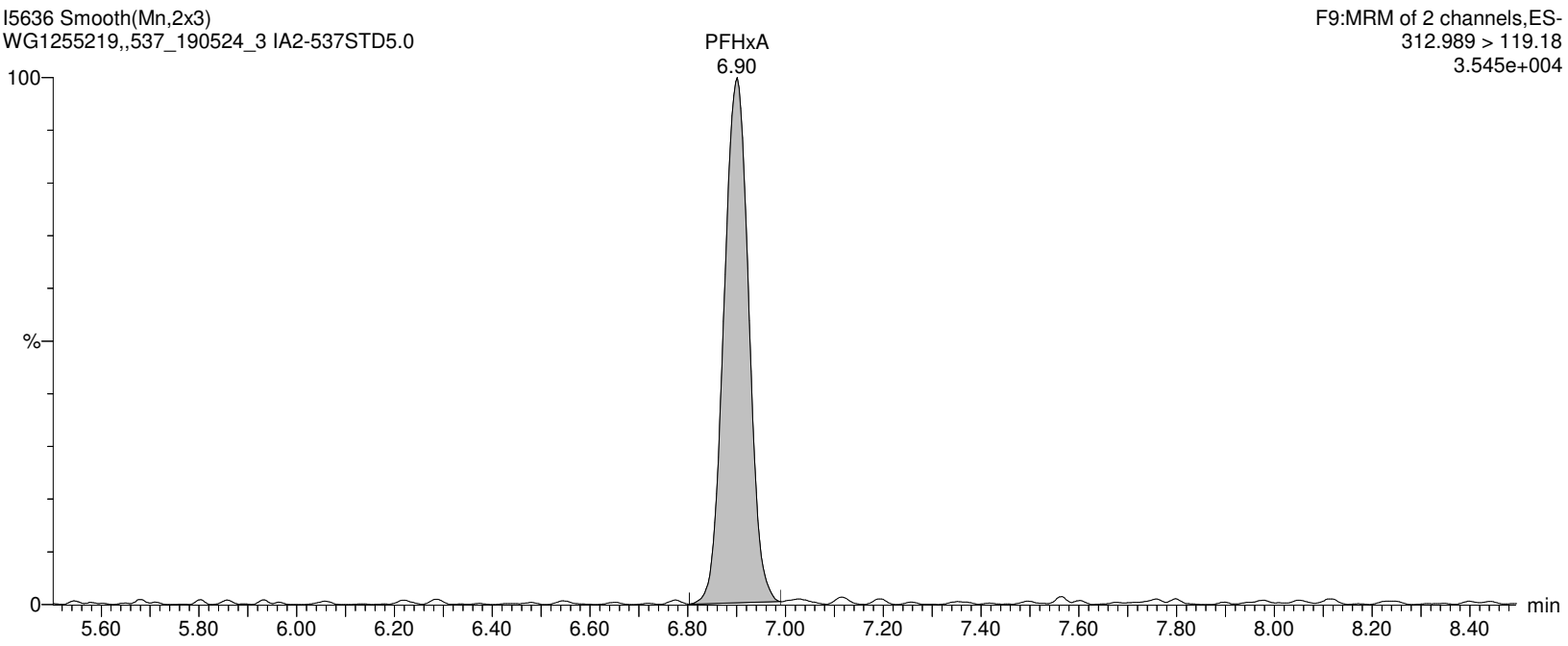
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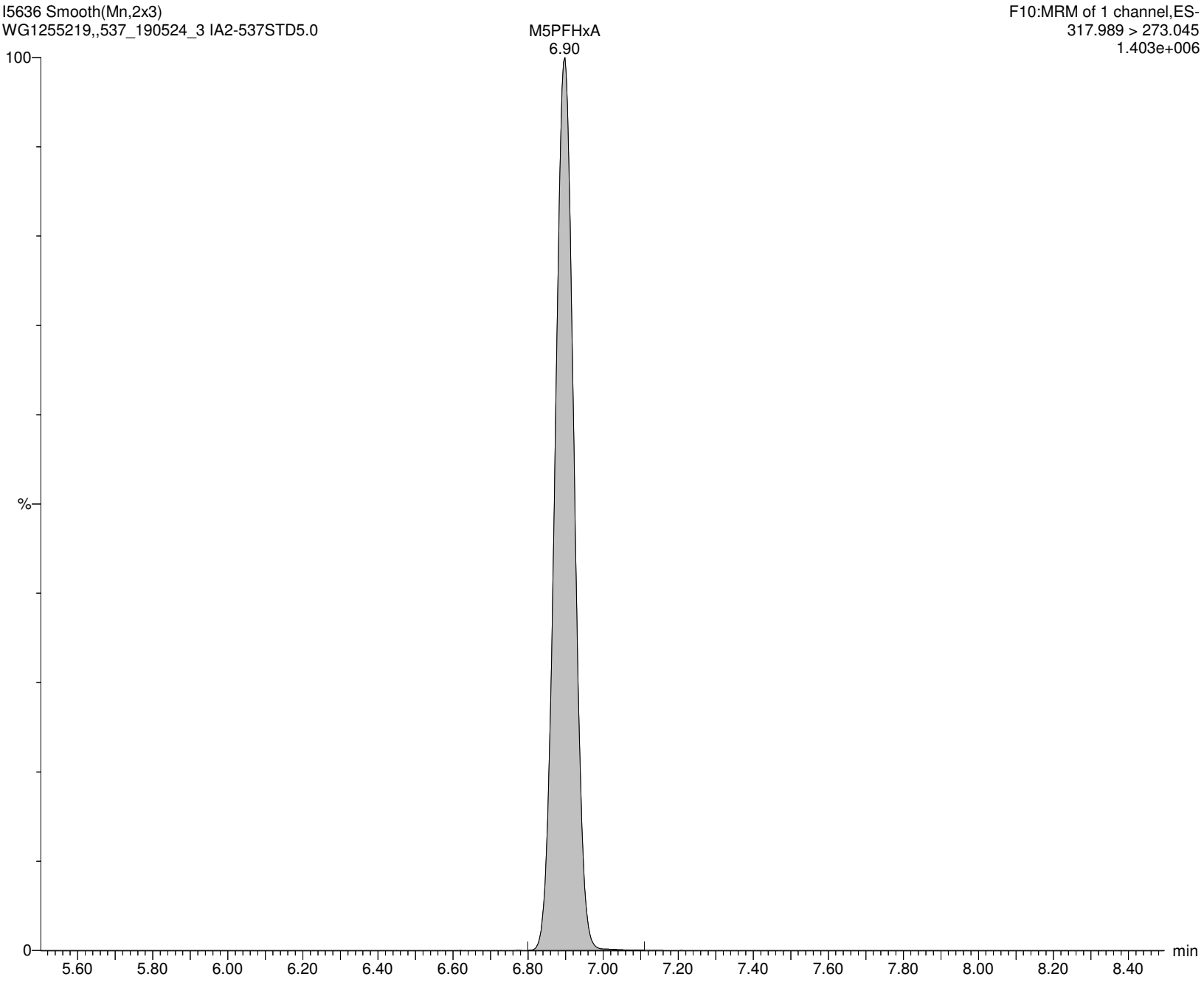


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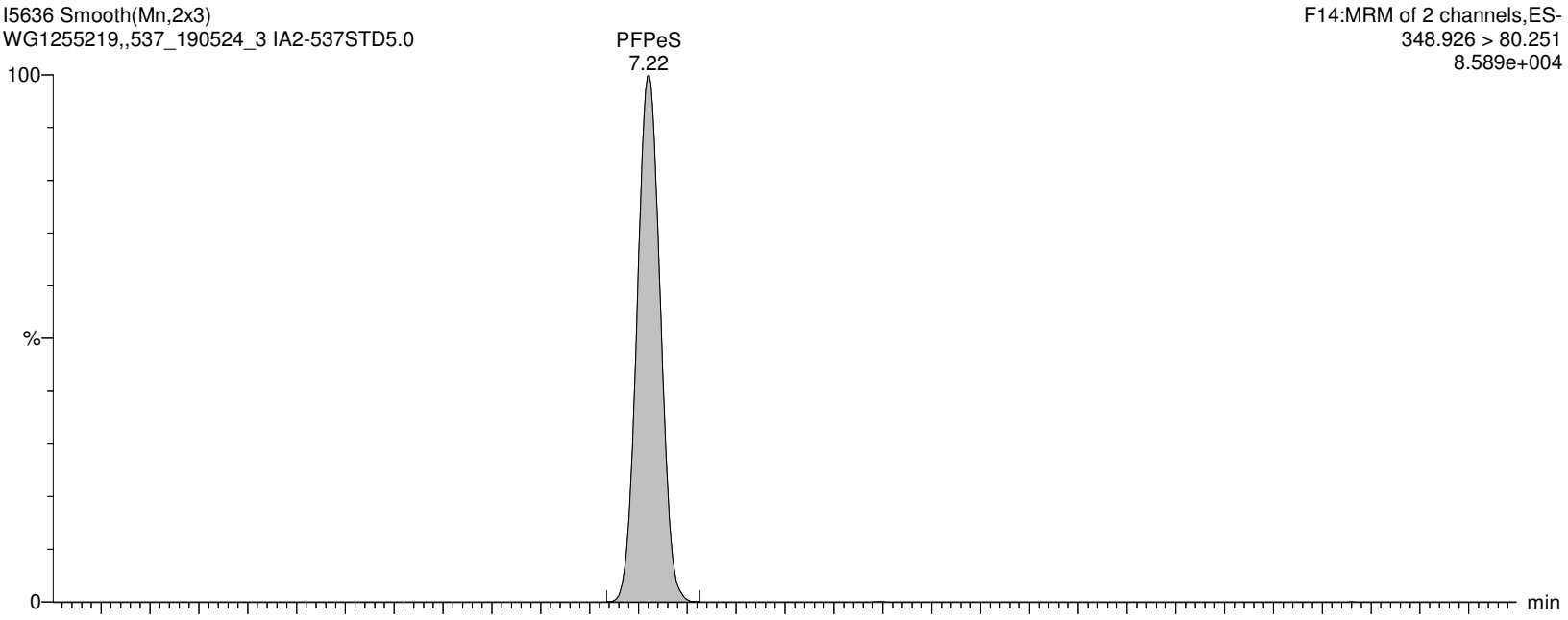


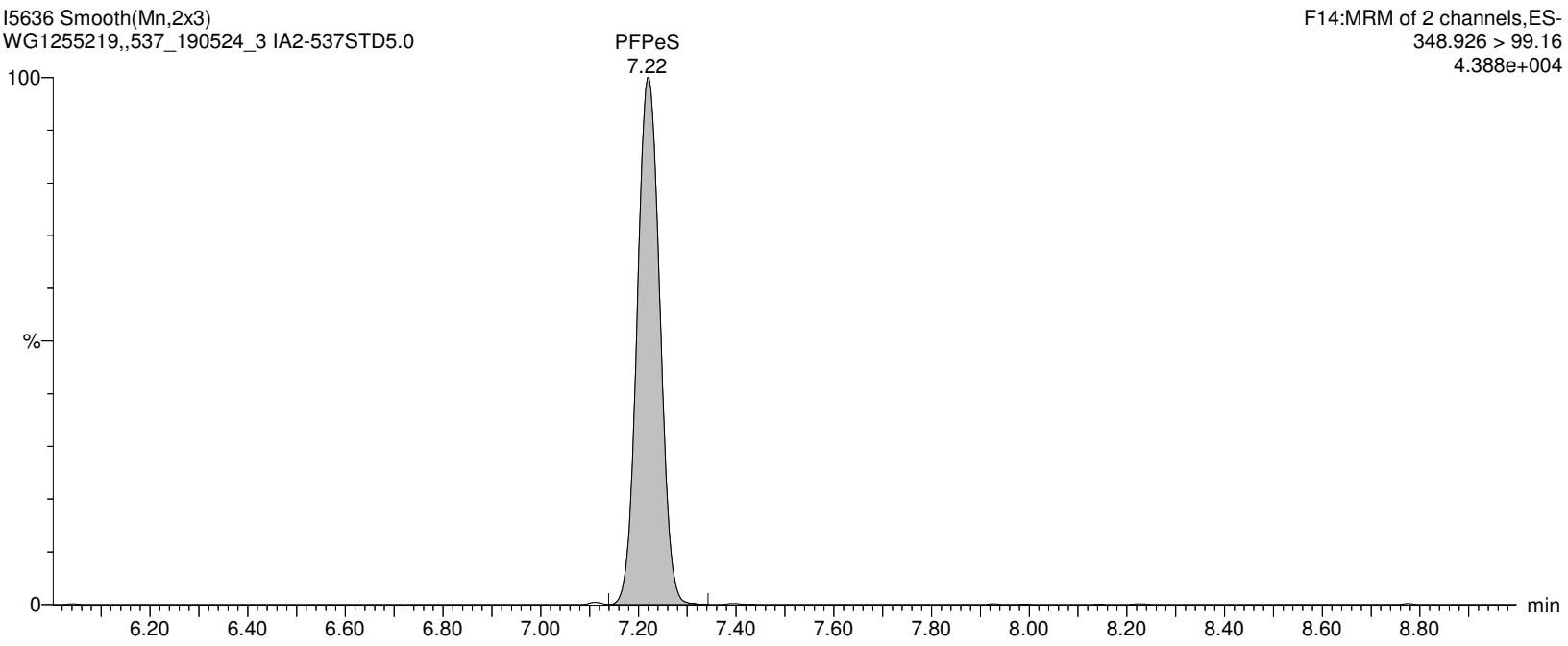
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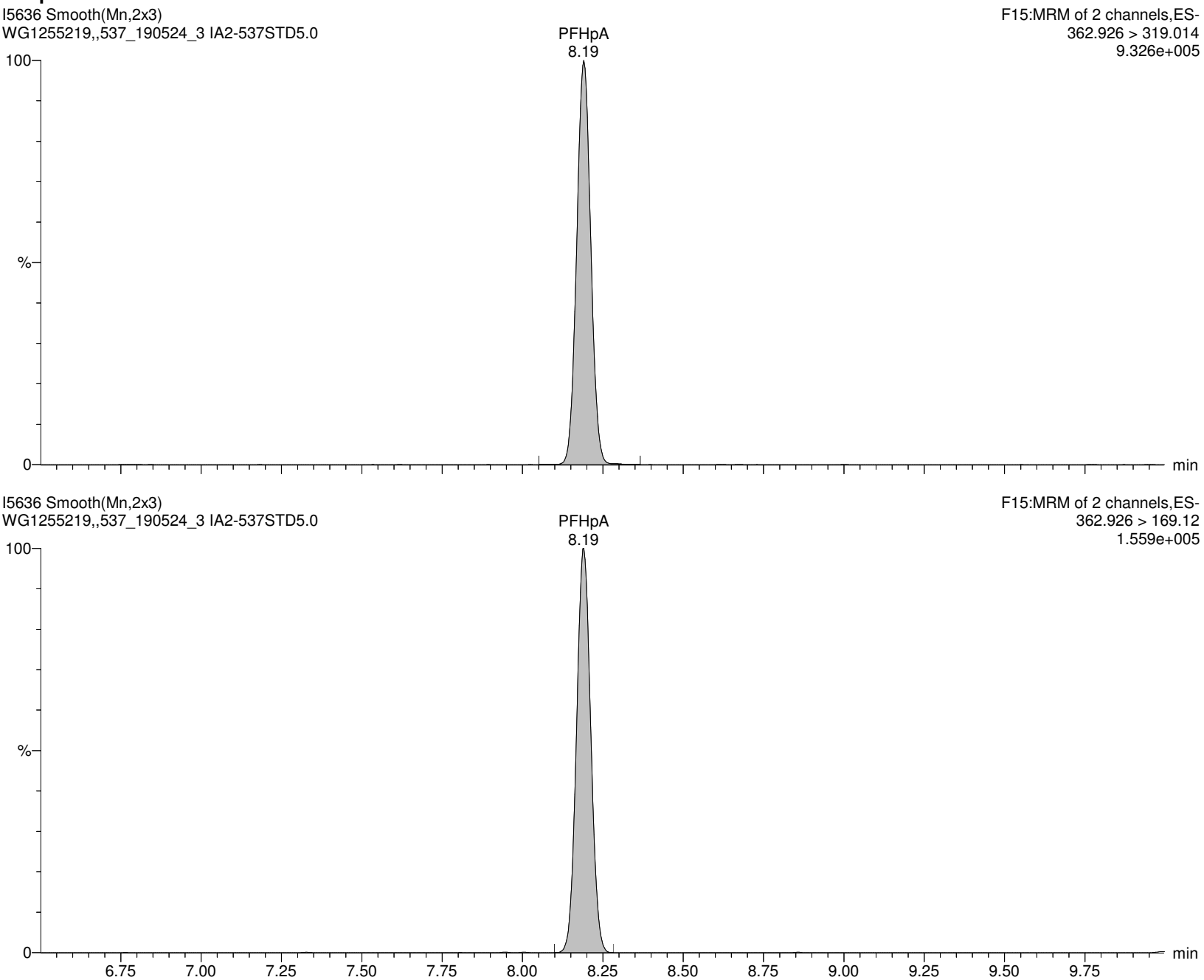


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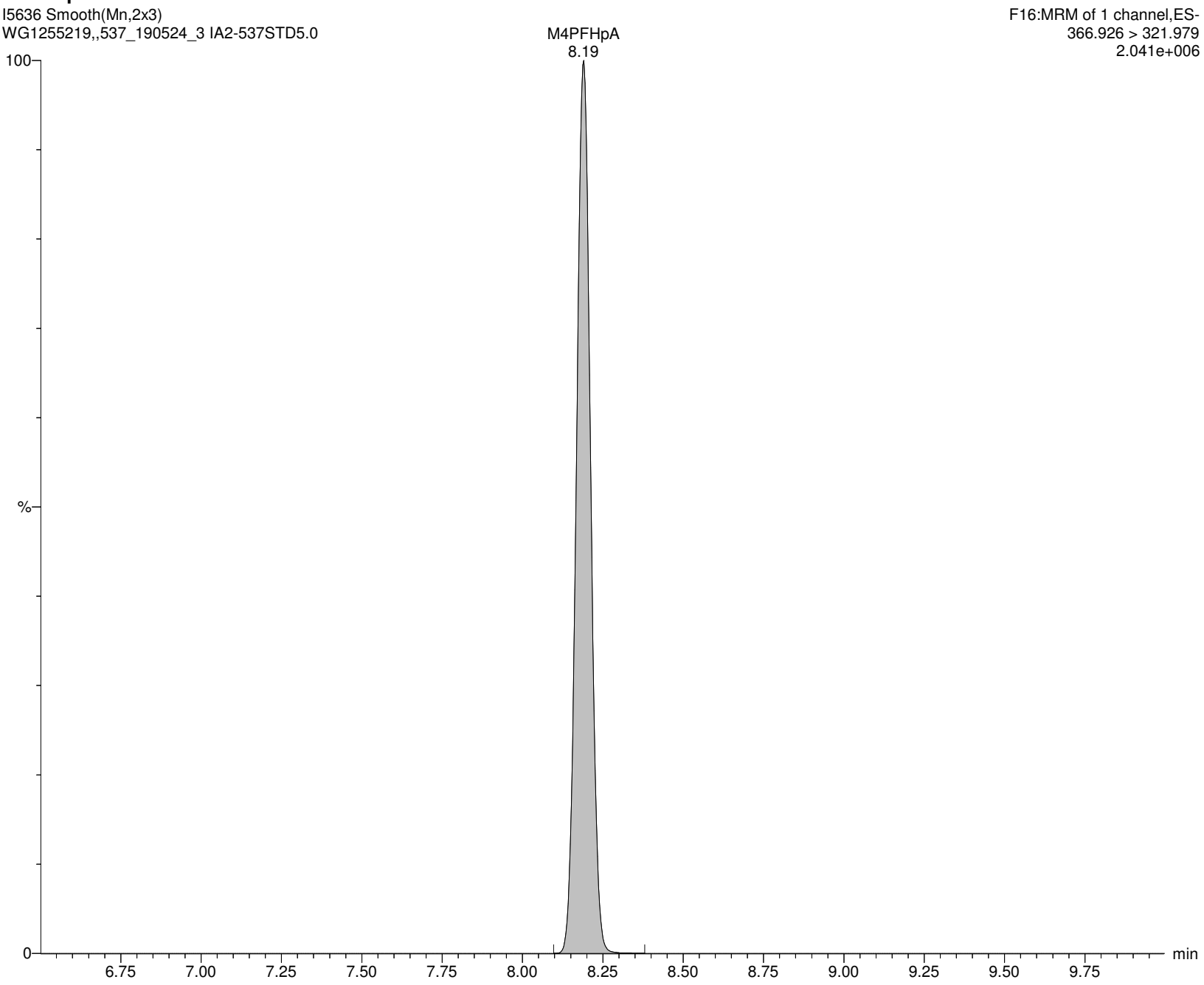


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:34 Eastern Daylight Time

Name: I5636
ID: IA2-537STD5.0
Date: 01-Jul-2019
Time: 18:30:29
Description: WG1255219,,537_190524_3
User: LCMS02:JW
Vial: 1:A,4
Instrument: XEVO-TQSmicro#QEB0050
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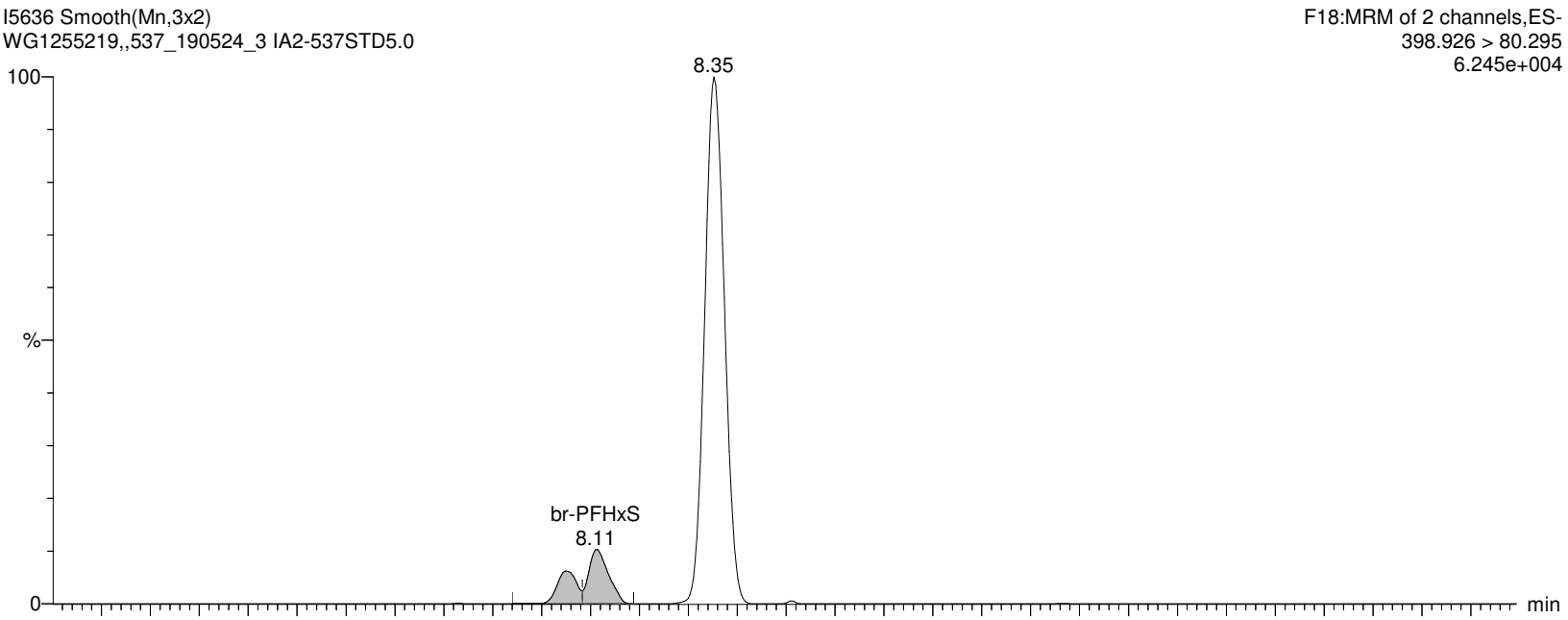


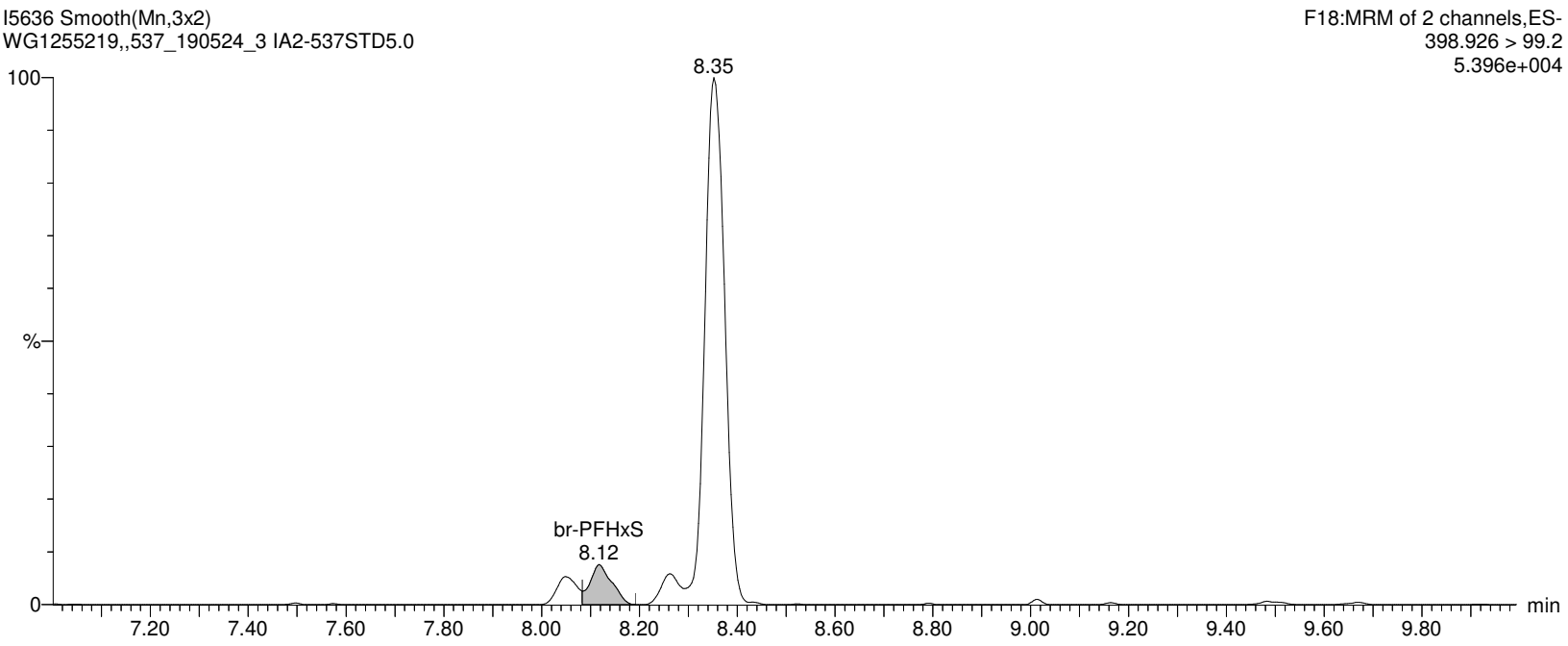
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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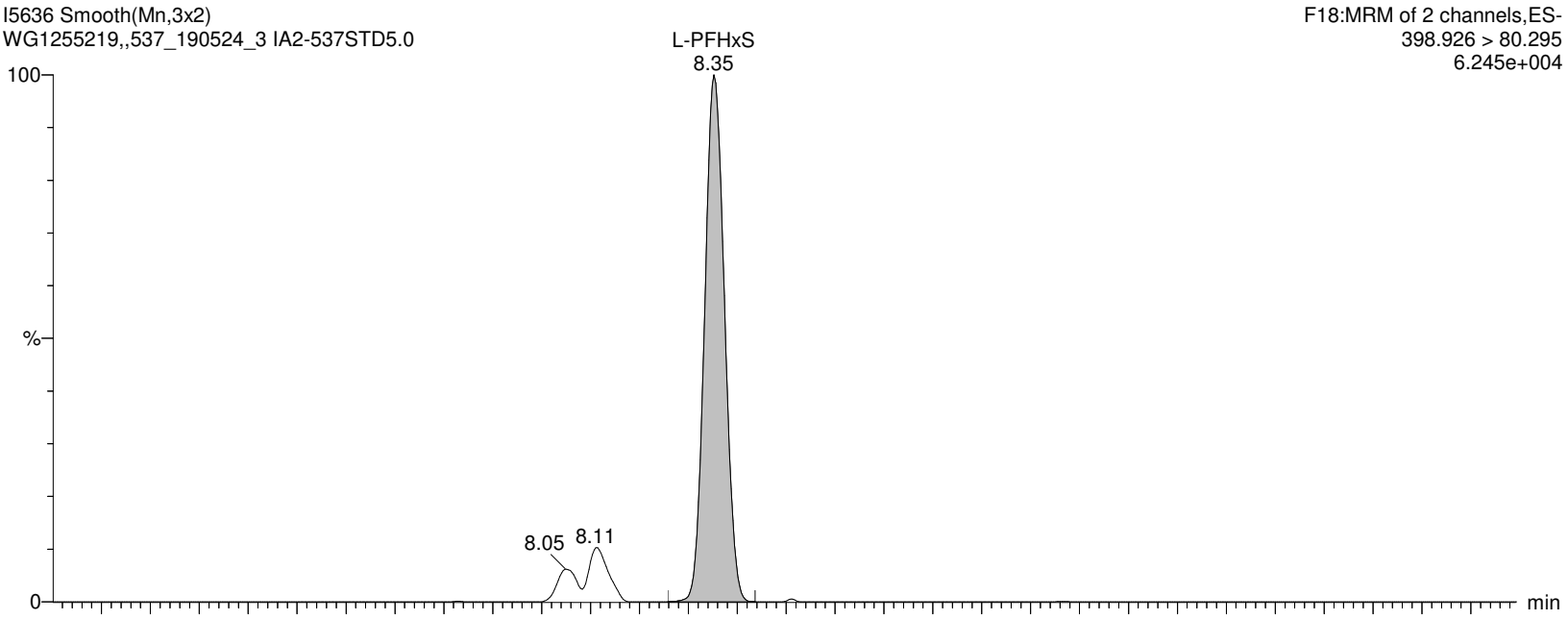


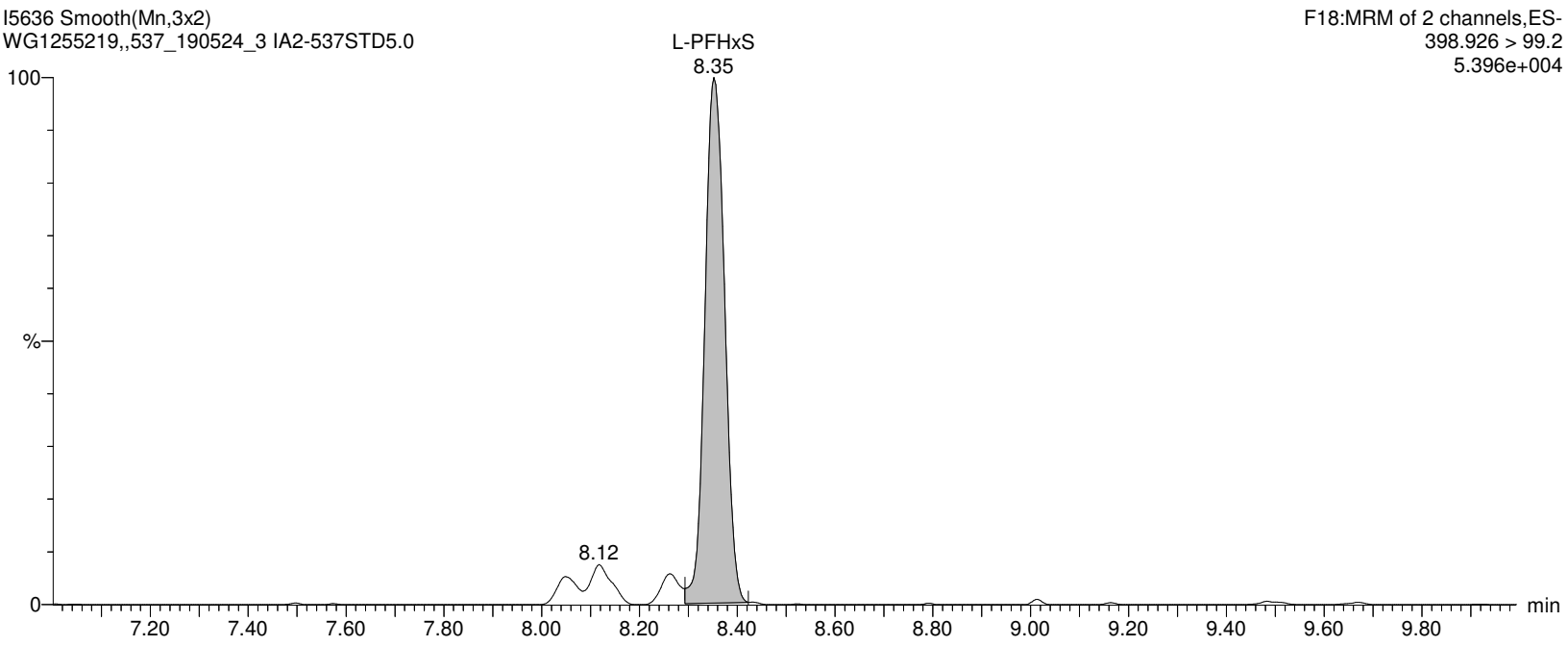
all concentration units in (ng/mL)

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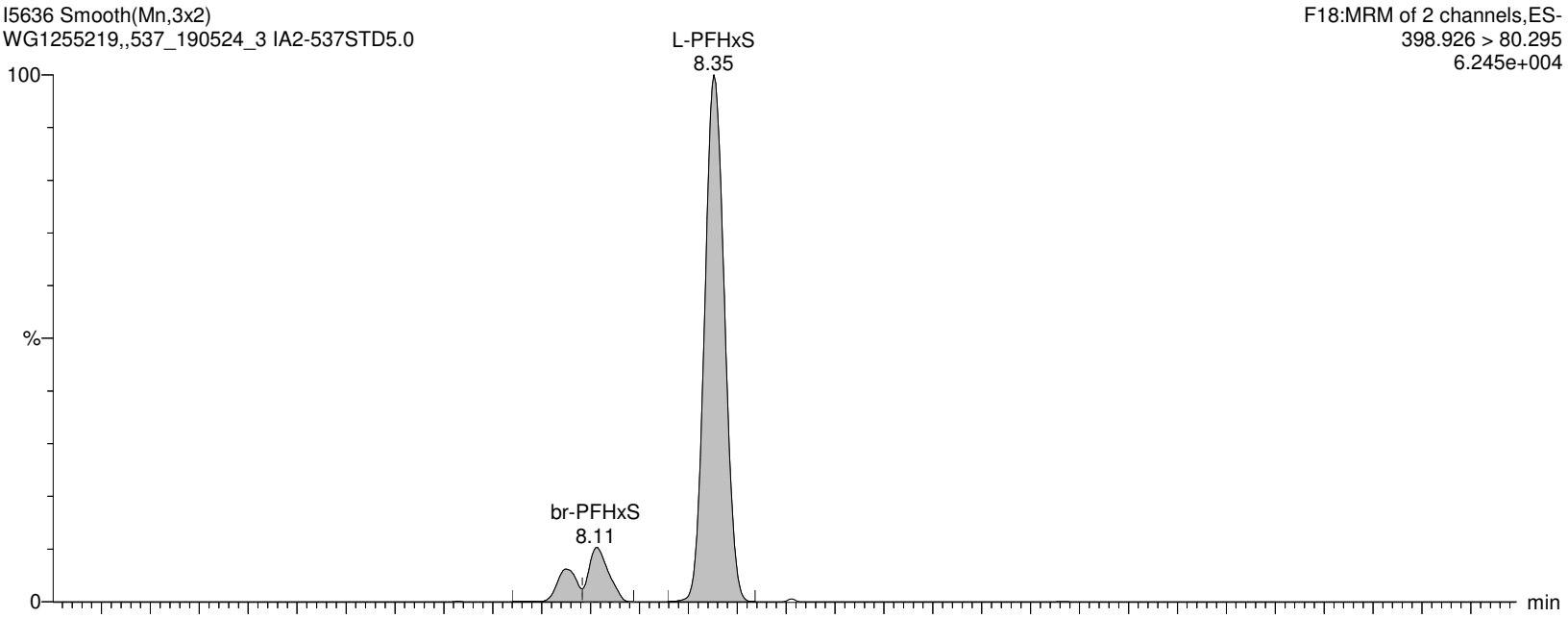


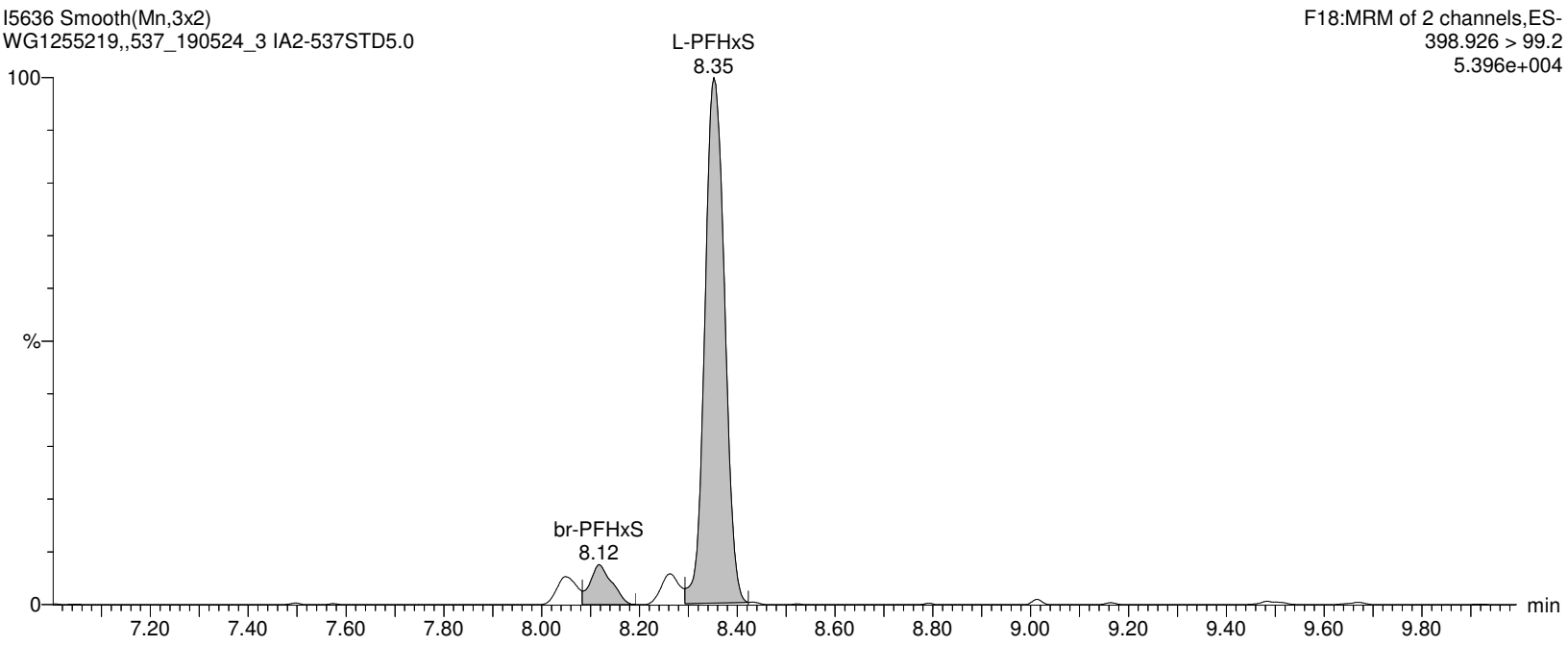
all concentration units in (ng/mL)

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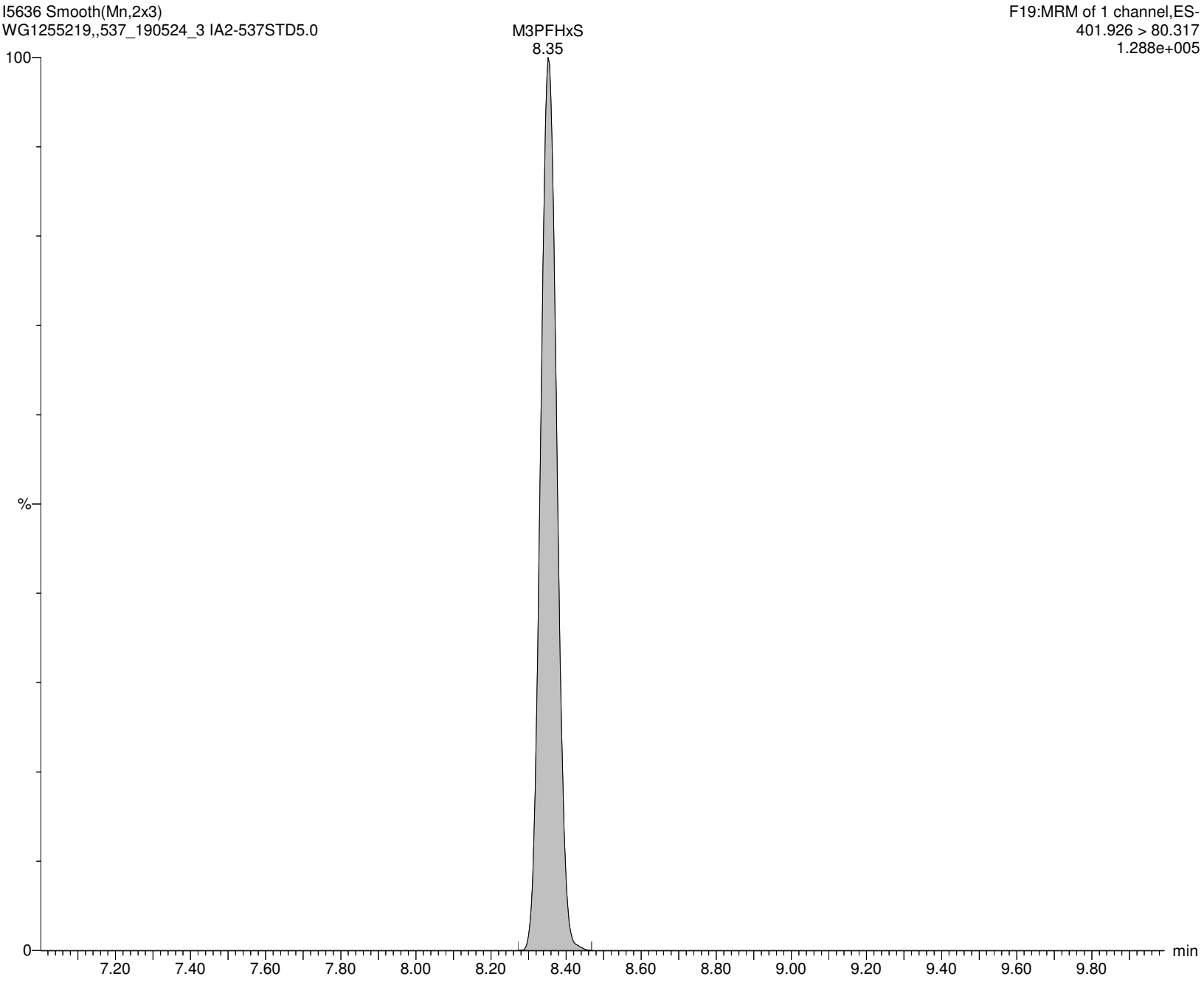


all concentration units in (ng/mL)

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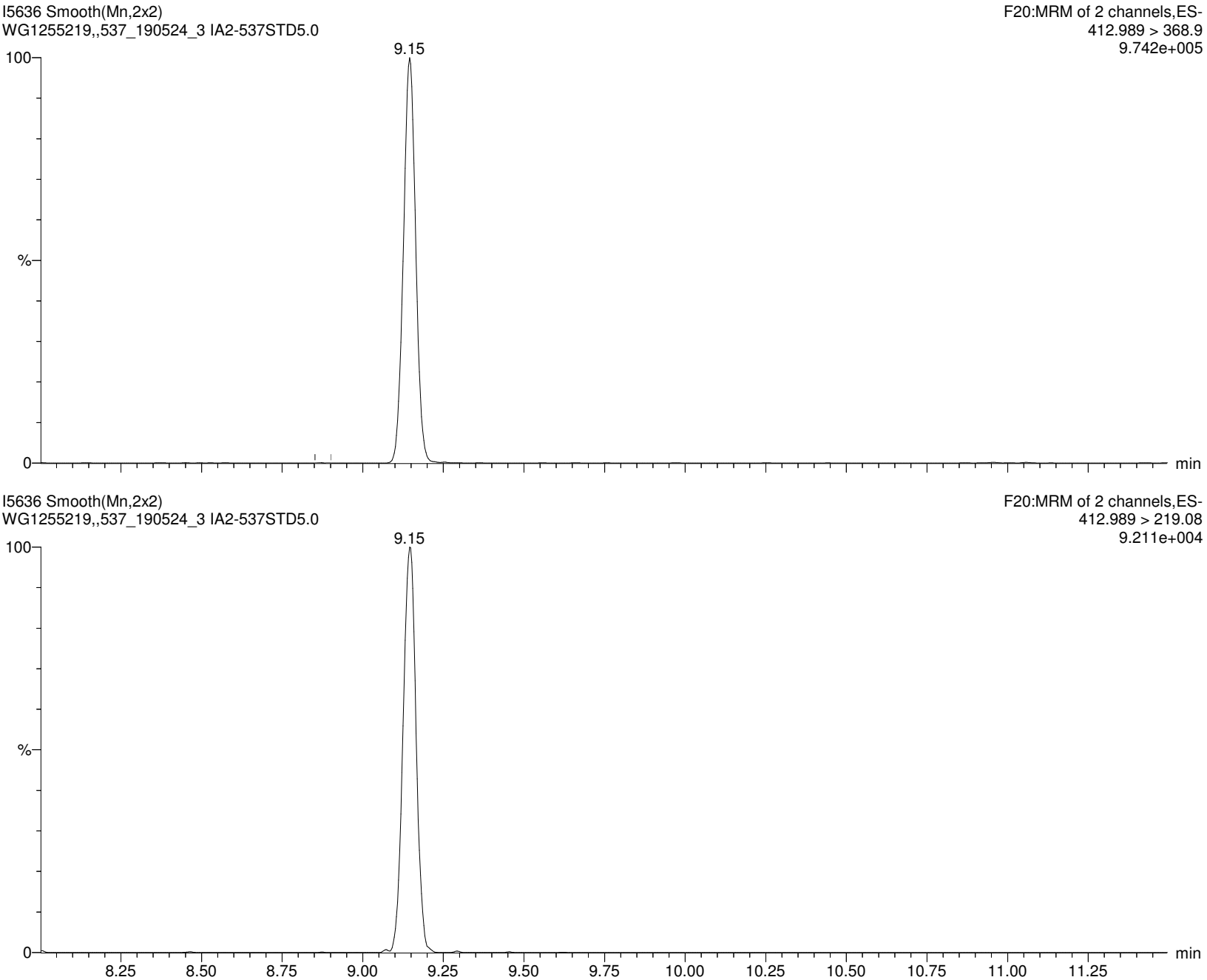


all concentration units in (ng/mL)

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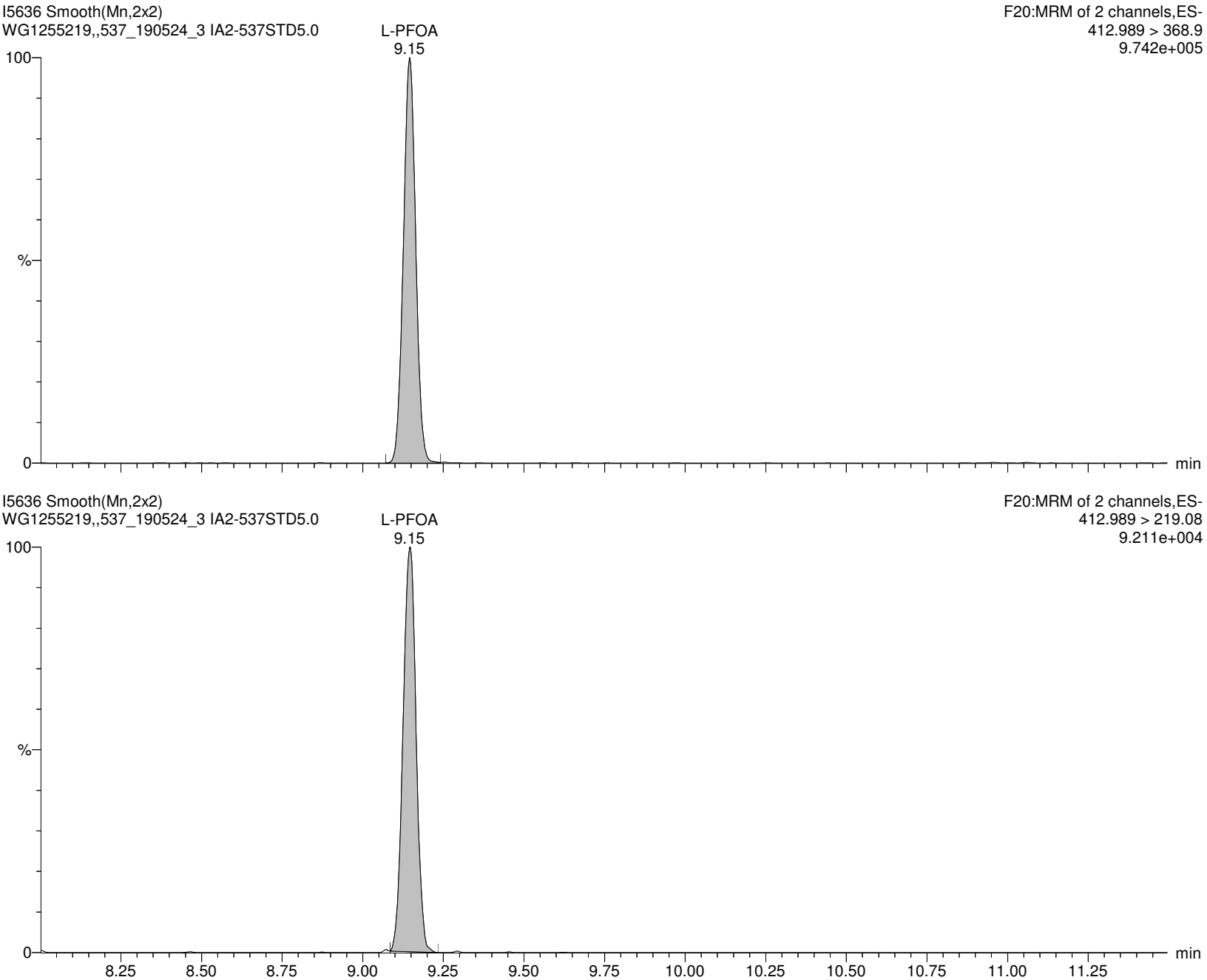


all concentration units in (ng/mL)

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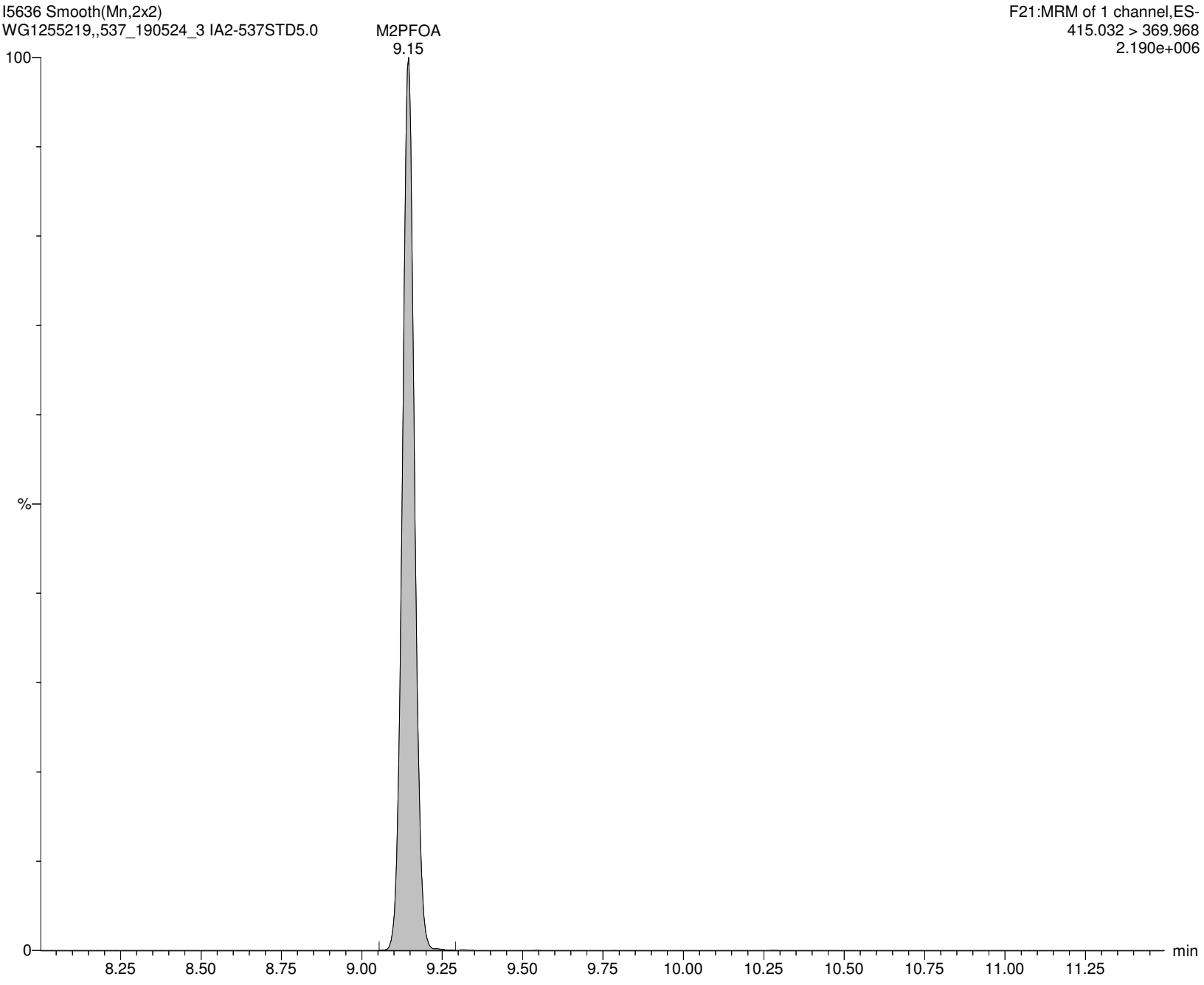


all concentration units in (ng/mL)

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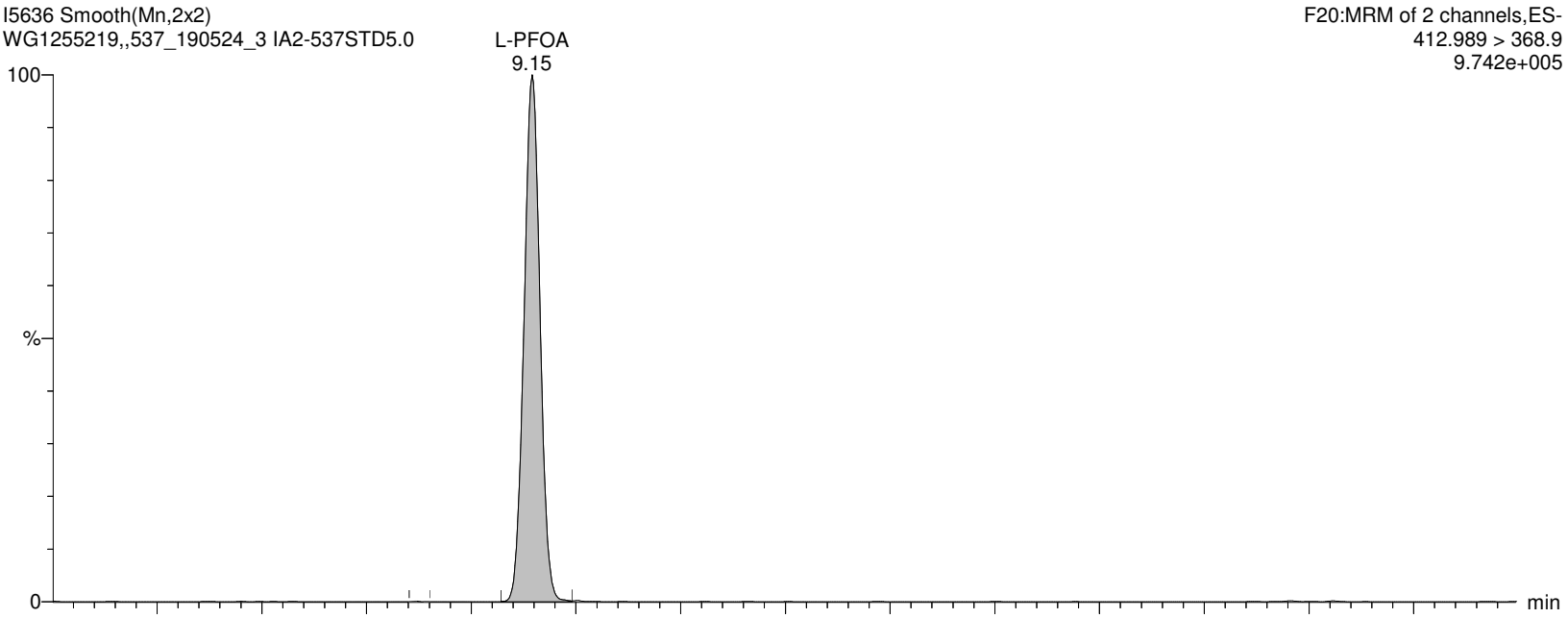


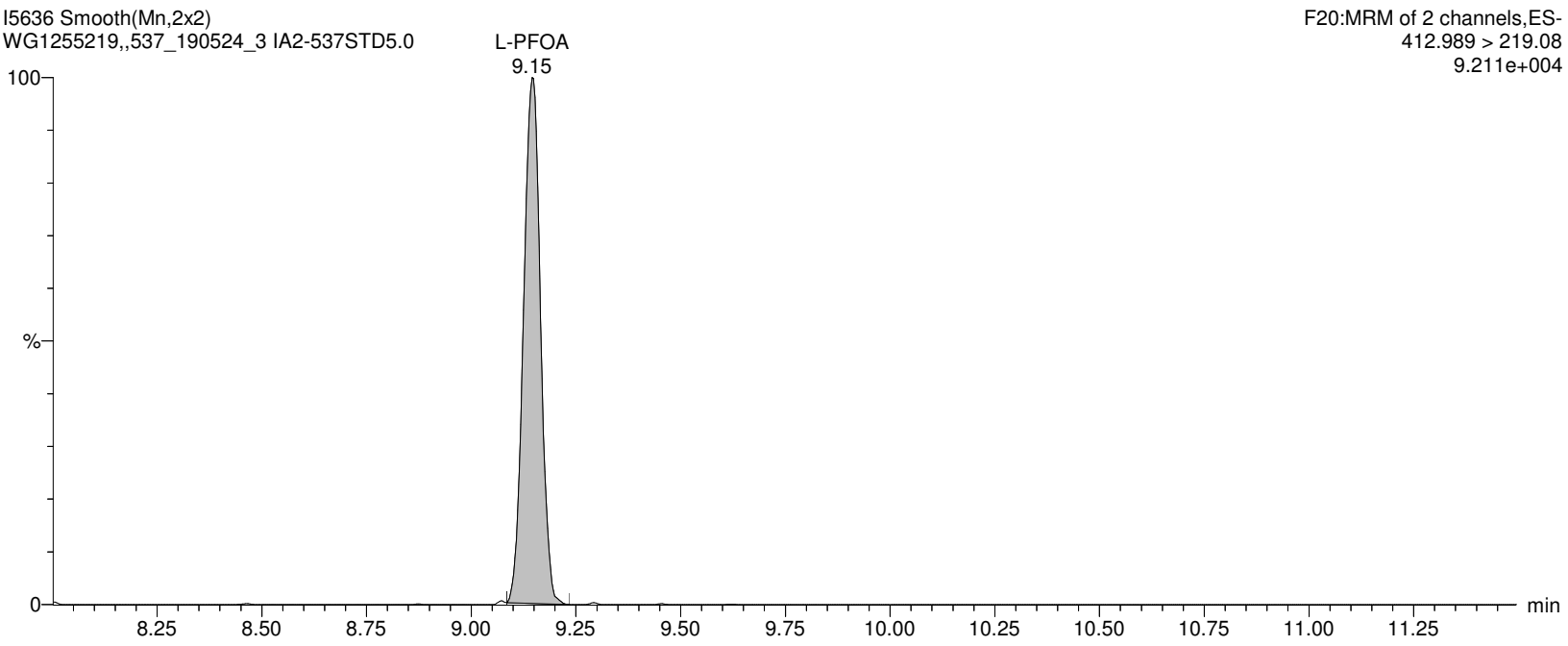
all concentration units in (ng/mL)

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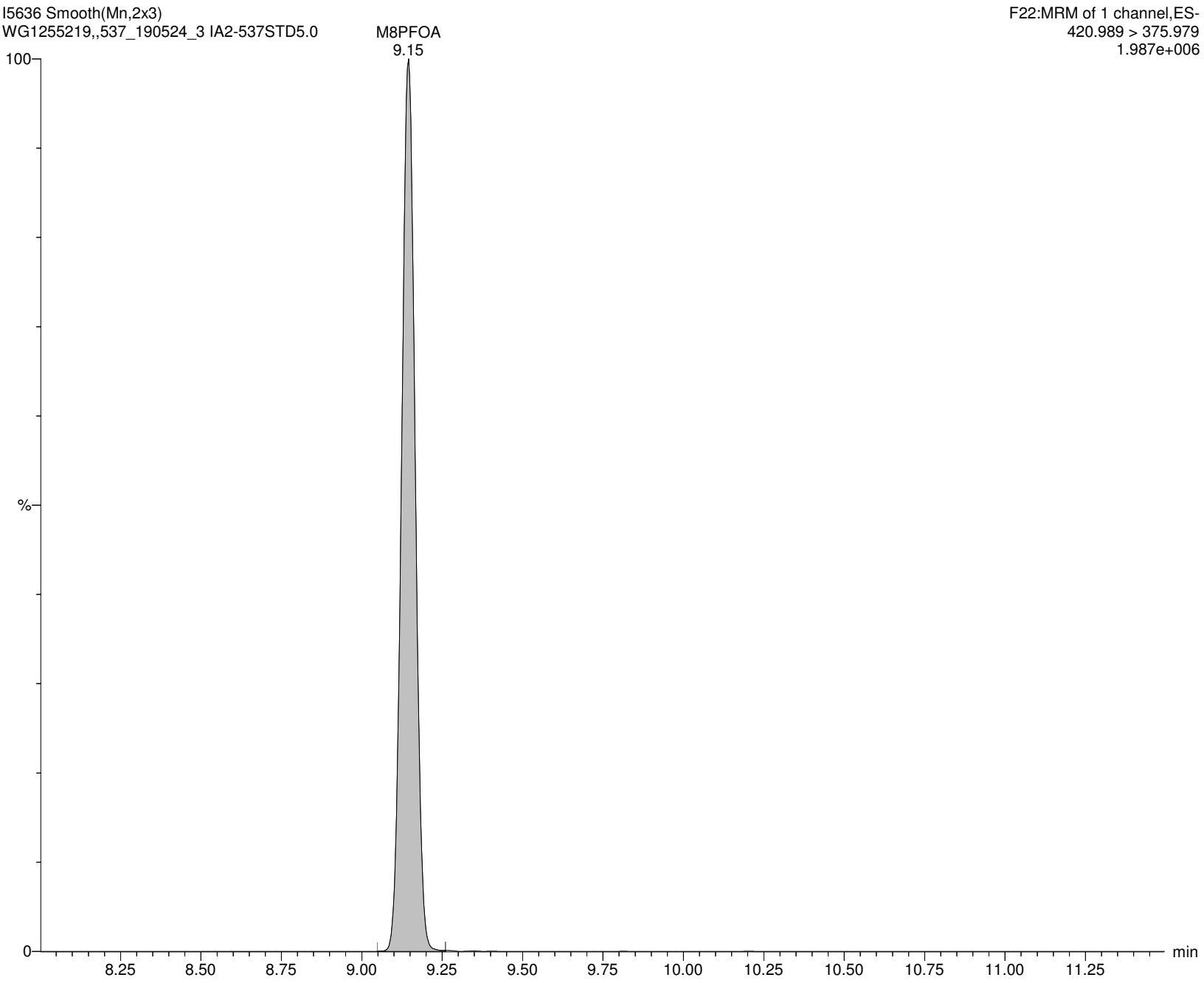


all concentration units in (ng/mL)

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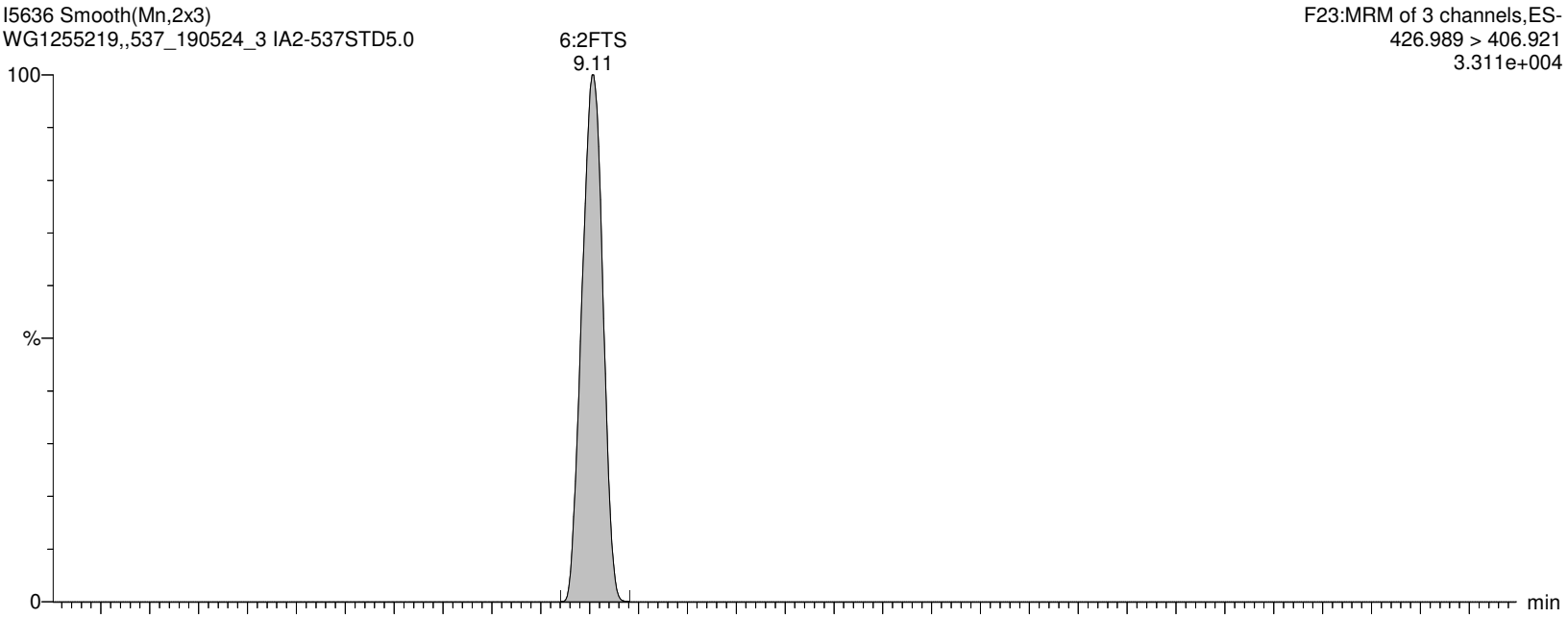


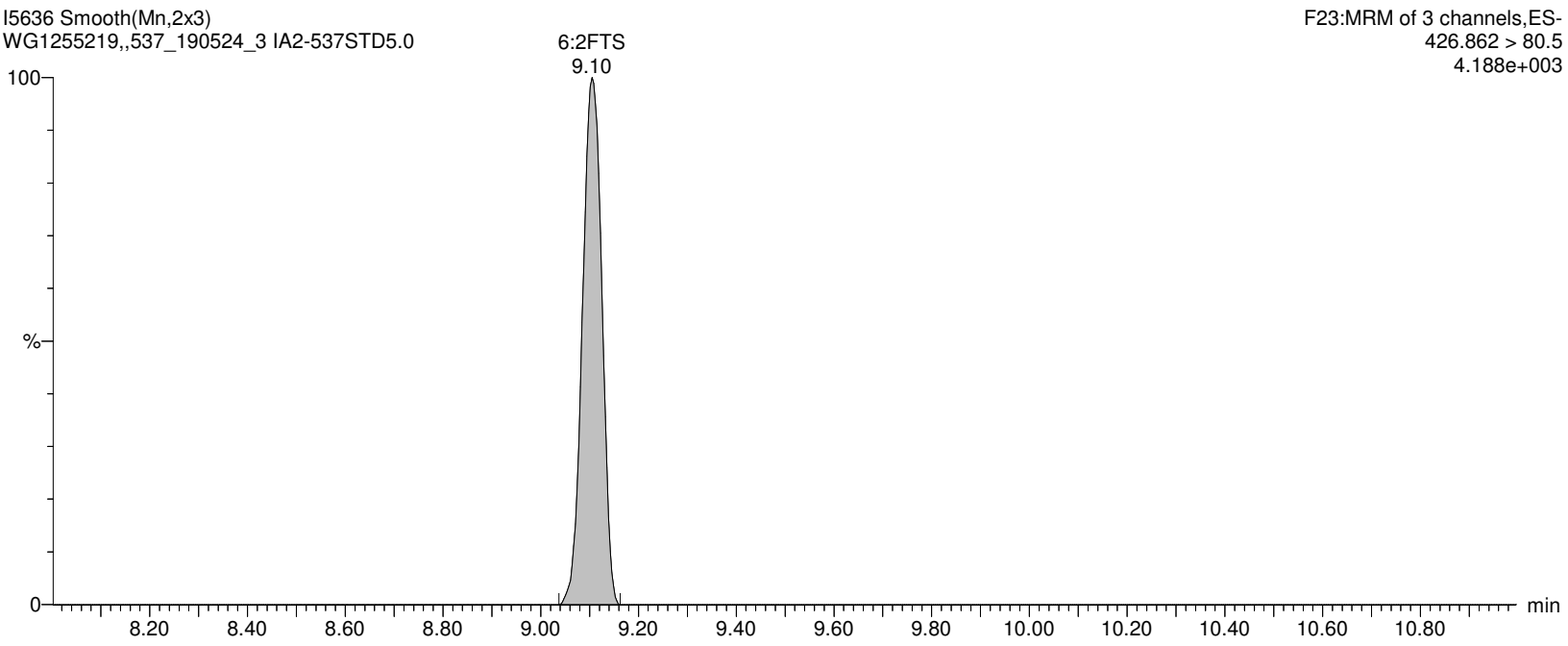
all concentration units in (ng/mL)

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6:2FTS



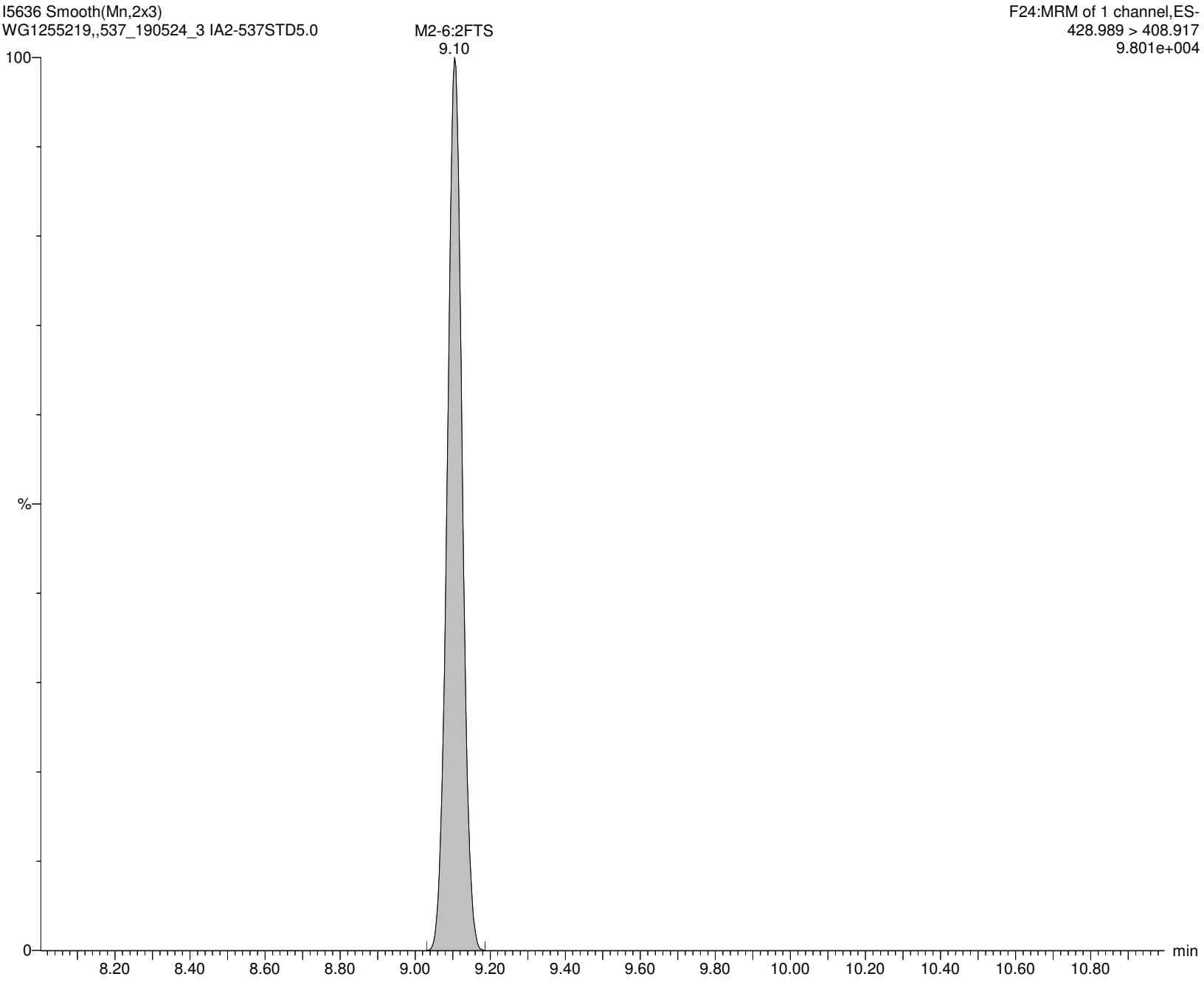


all concentration units in (ng/mL)

Alpha Analytical Inc.
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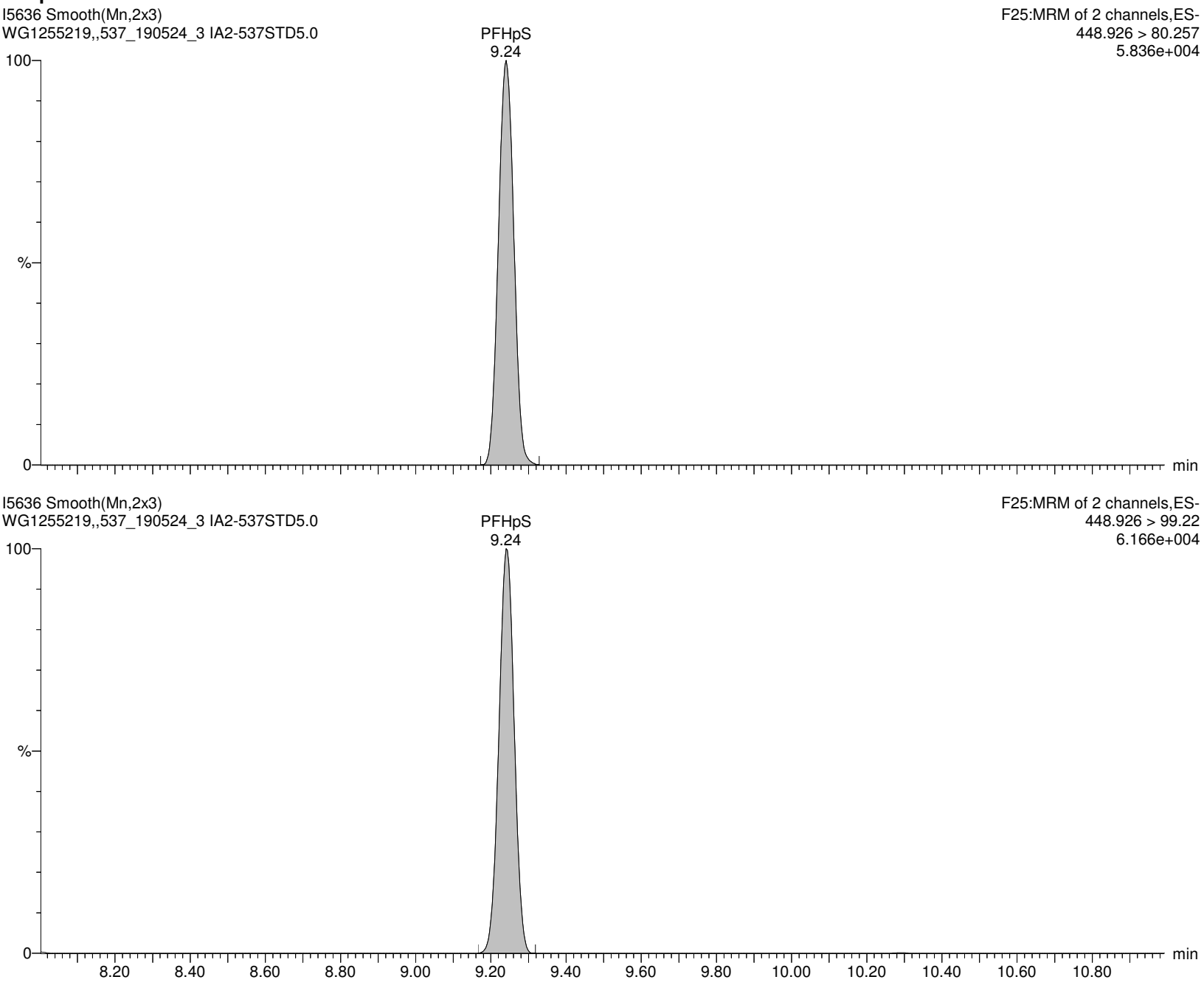


all concentration units in (ng/mL)

Alpha Analytical Inc.
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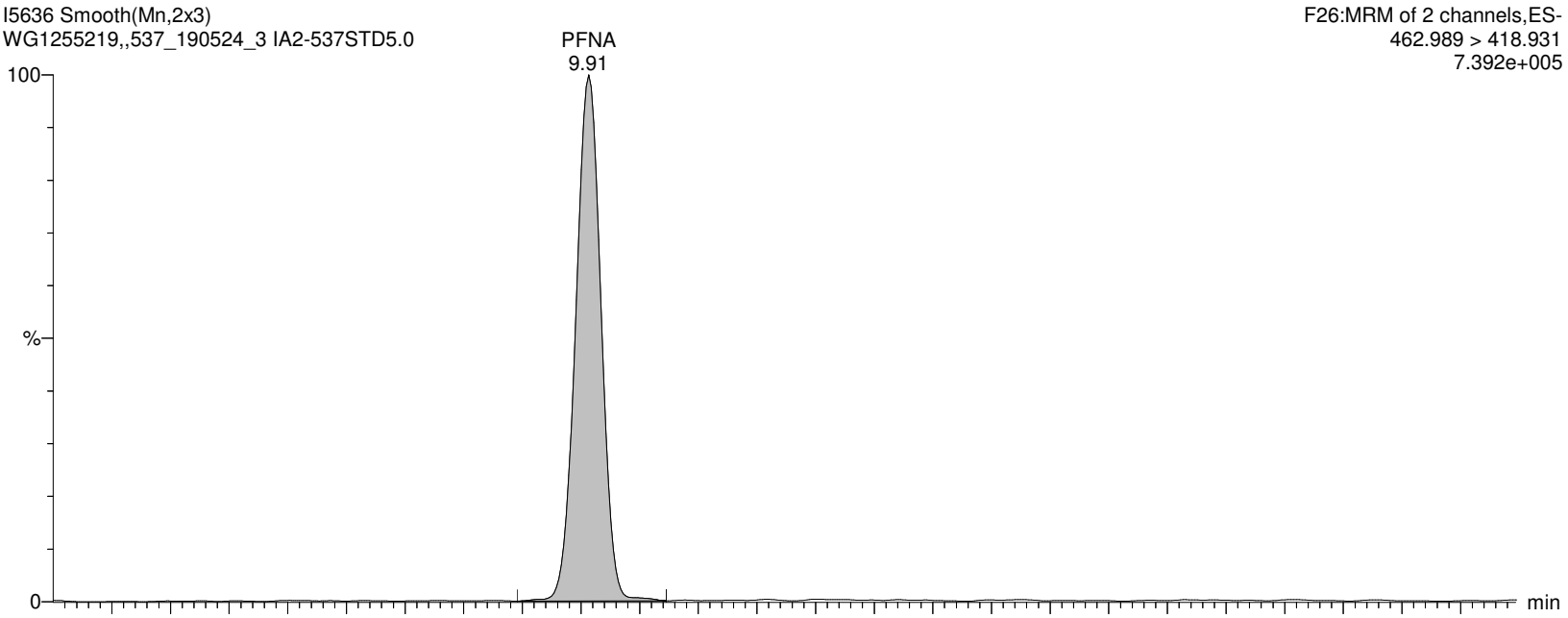


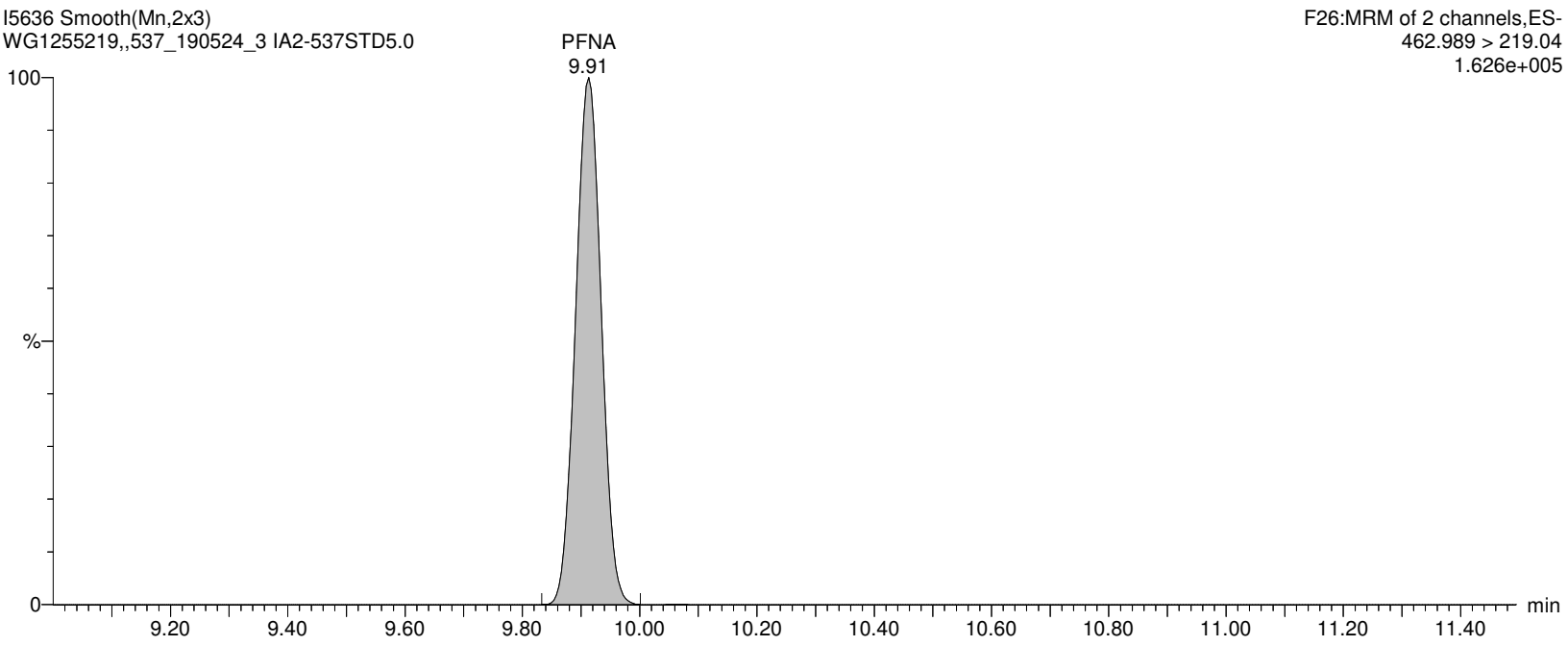
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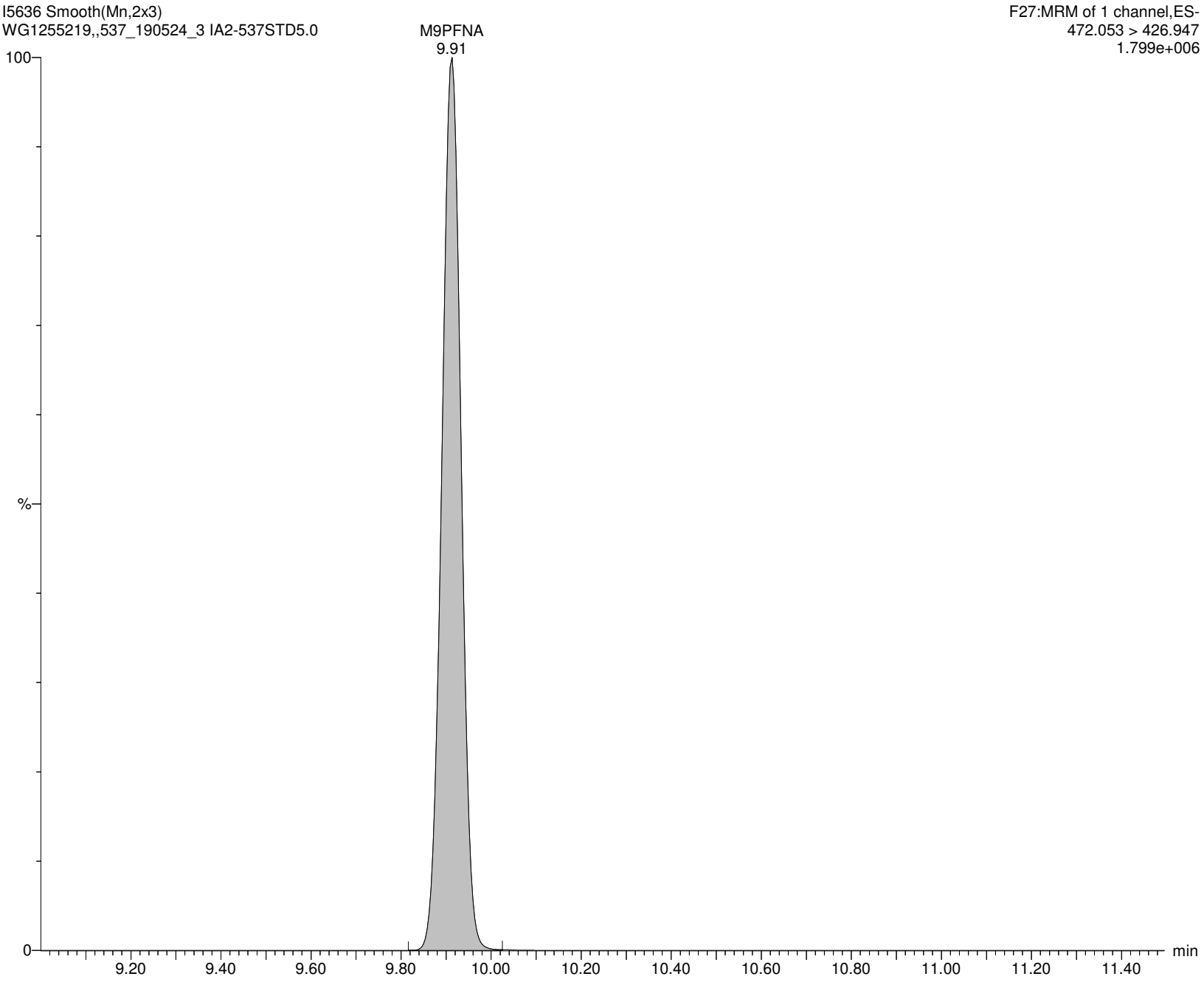


all concentration units in (ng/mL)

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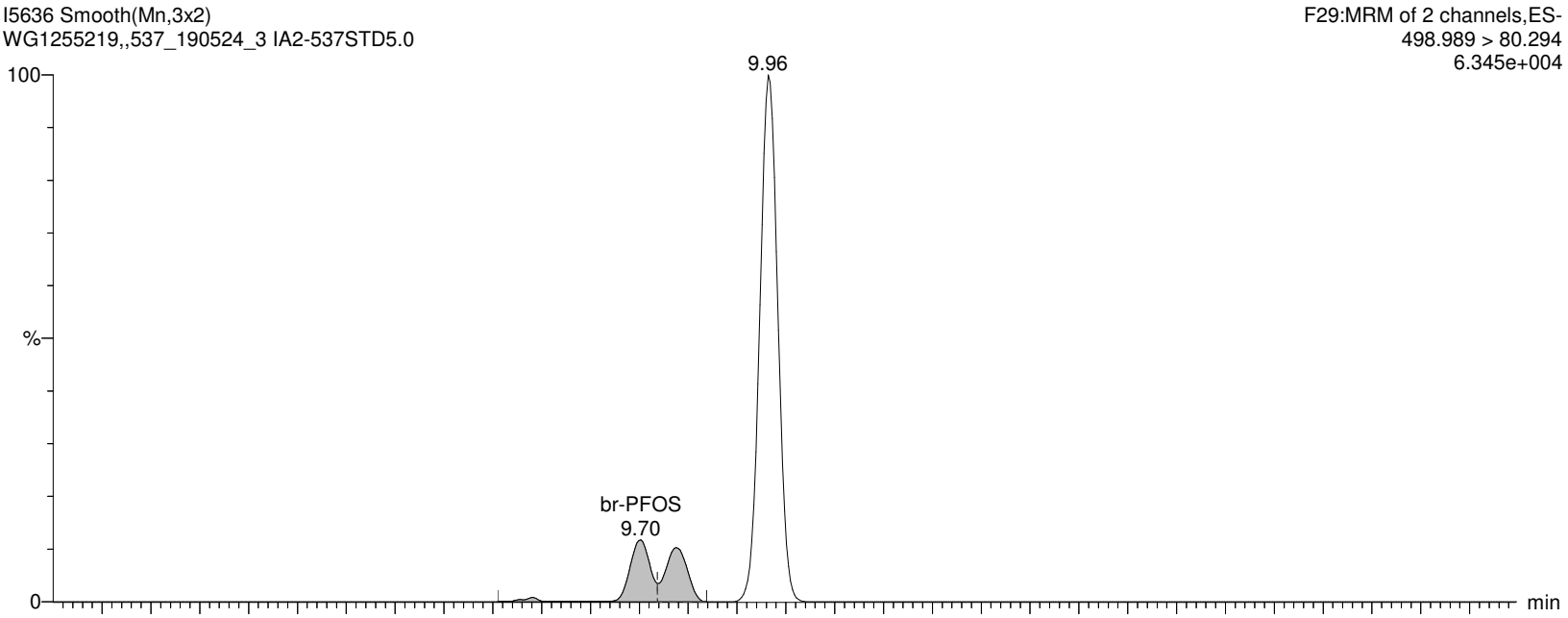


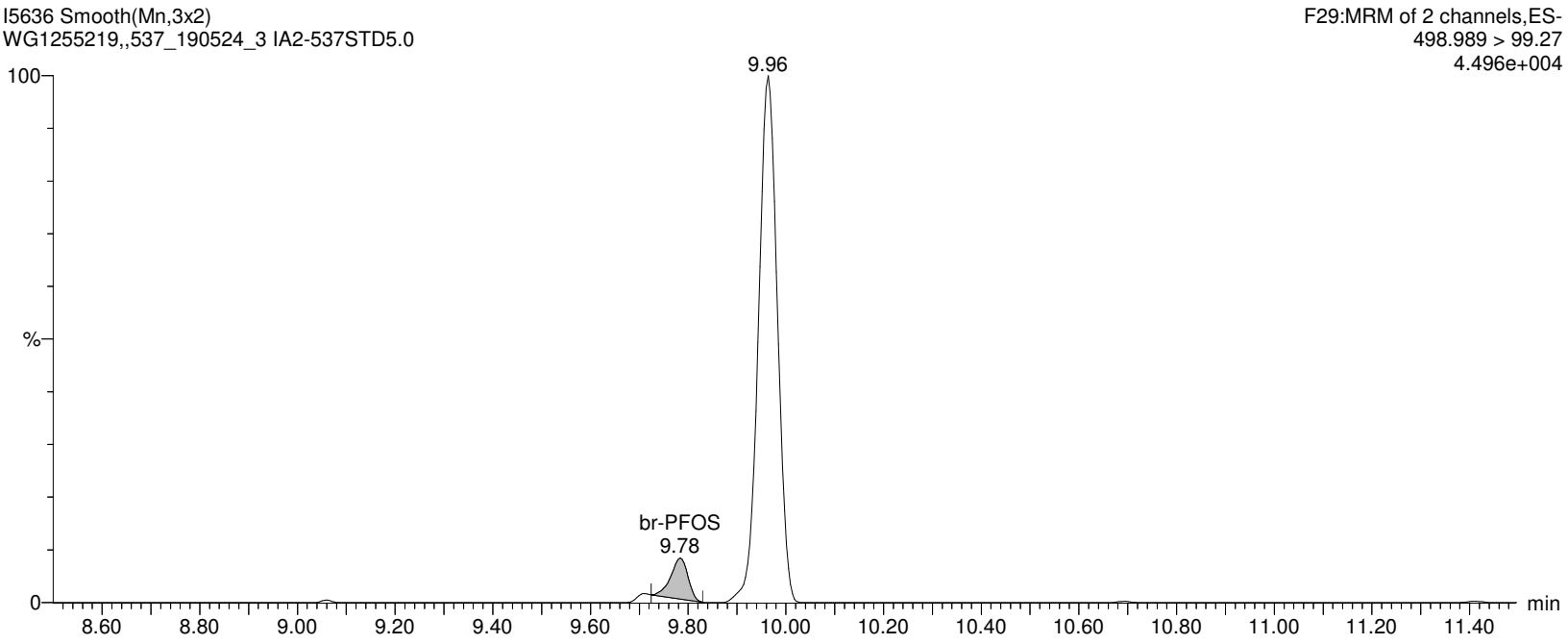
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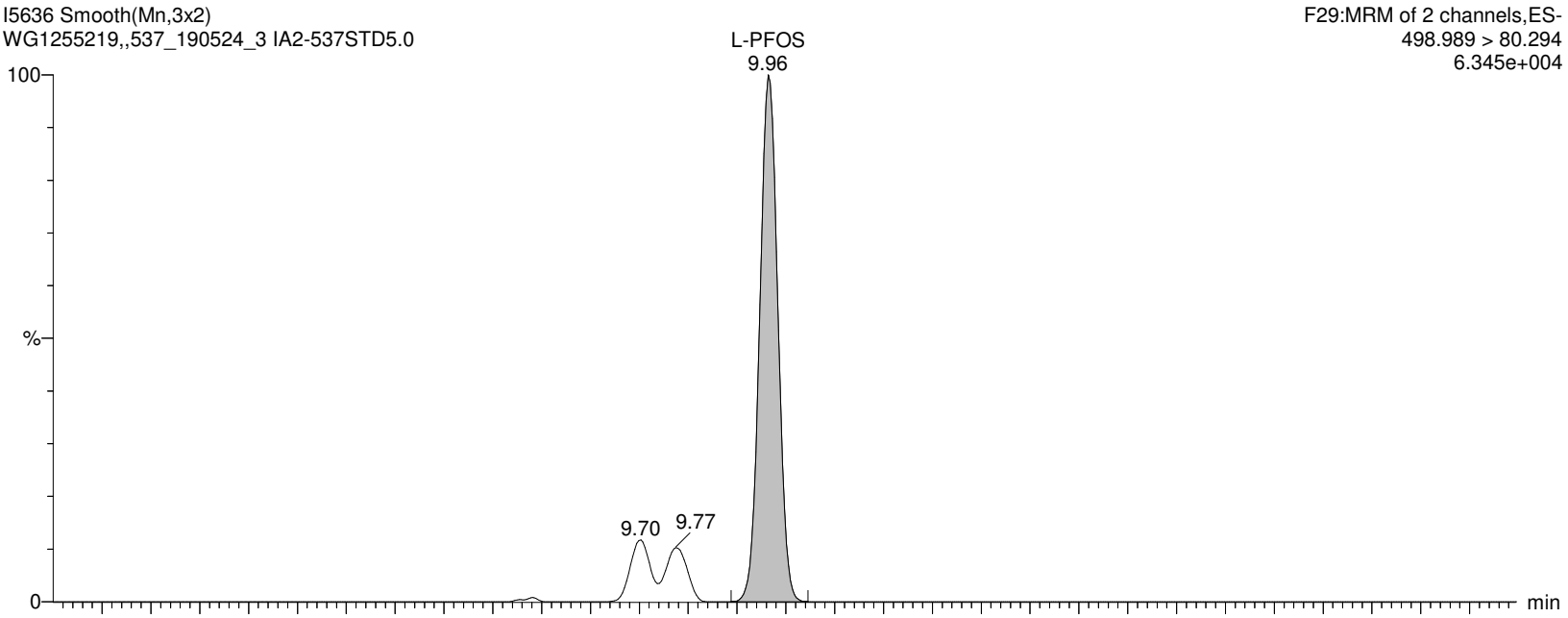


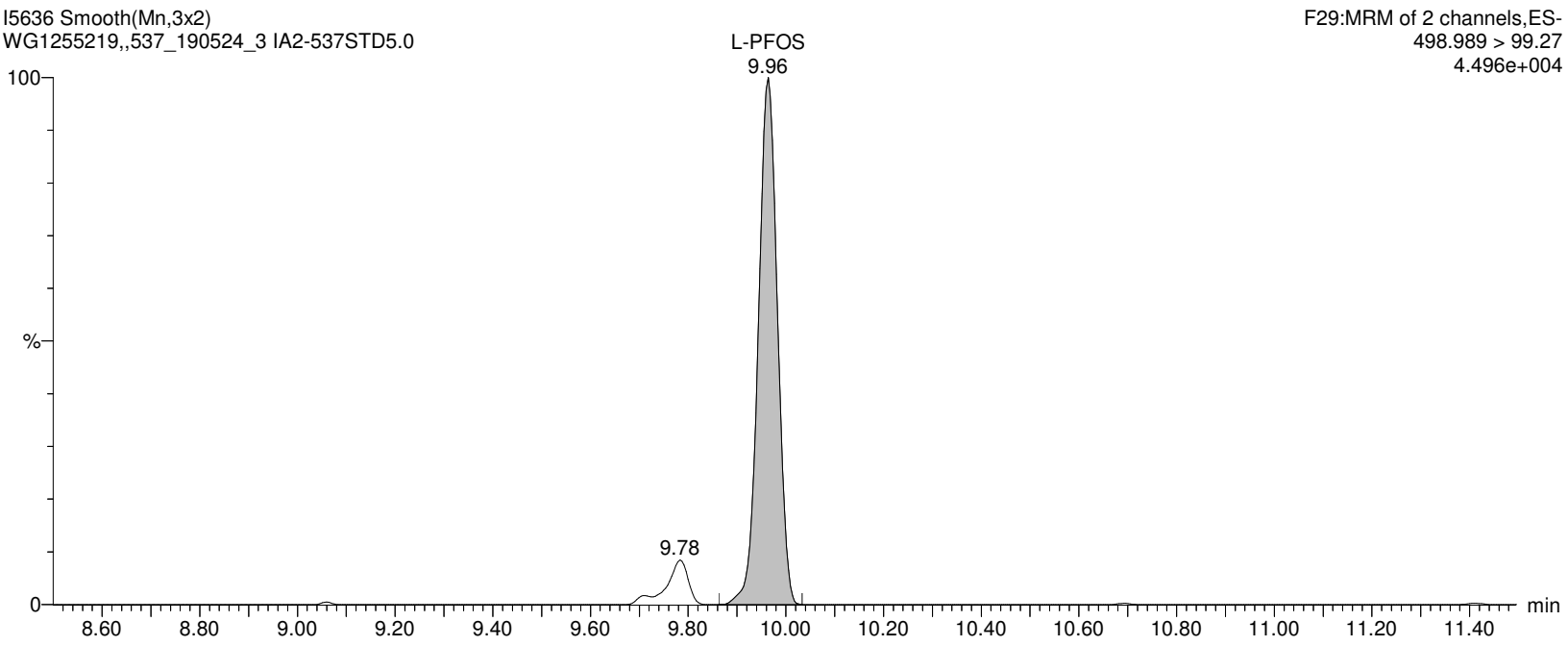
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:34 Eastern Daylight Time

Name: I5636
ID: IA2-537STD5.0
Date: 01-Jul-2019
Time: 18:30:29
Description: WG1255219,,537_190524_3
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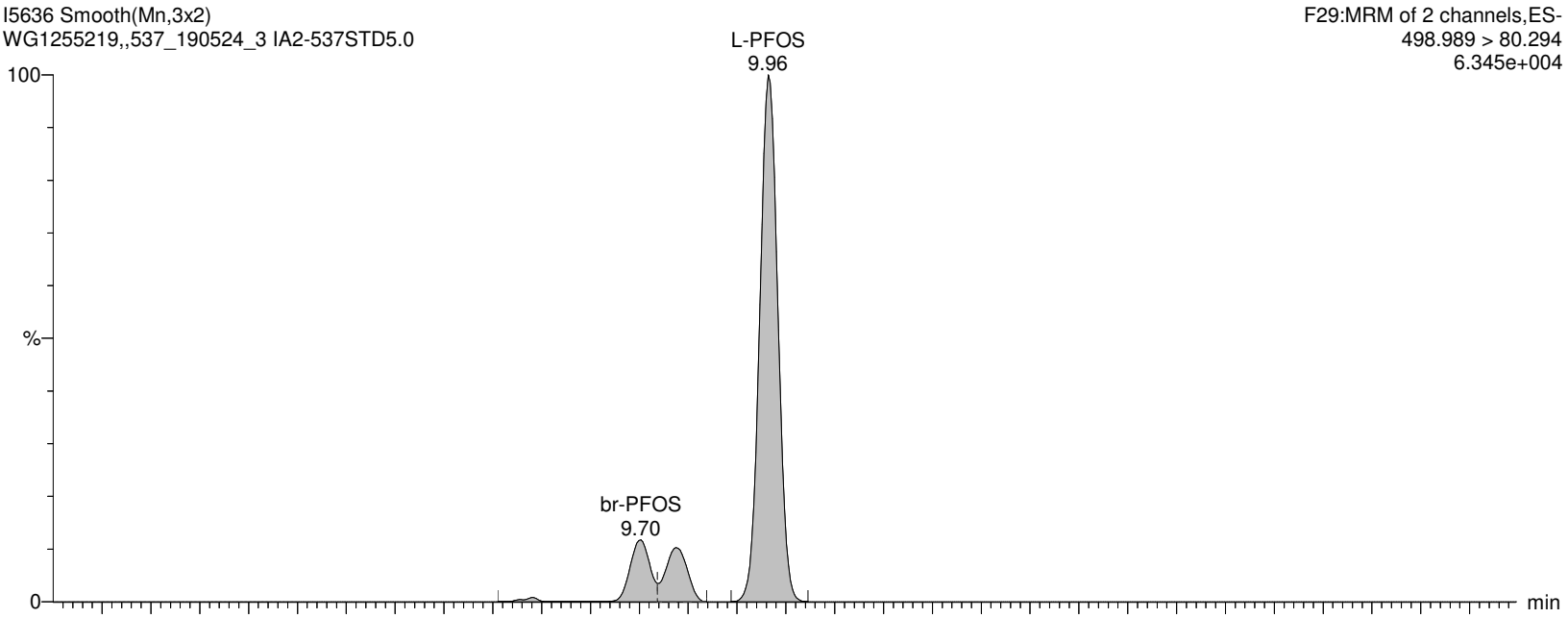


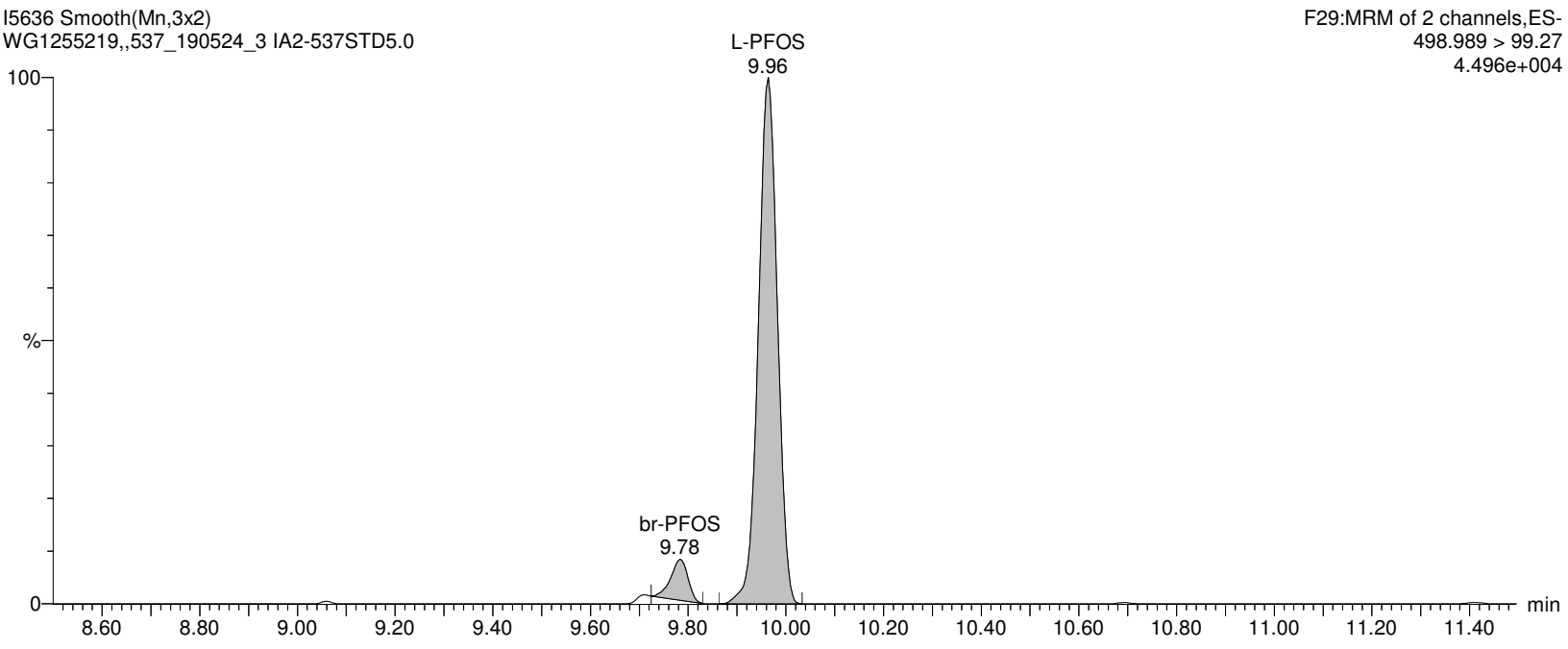
all concentration units in (ng/mL)

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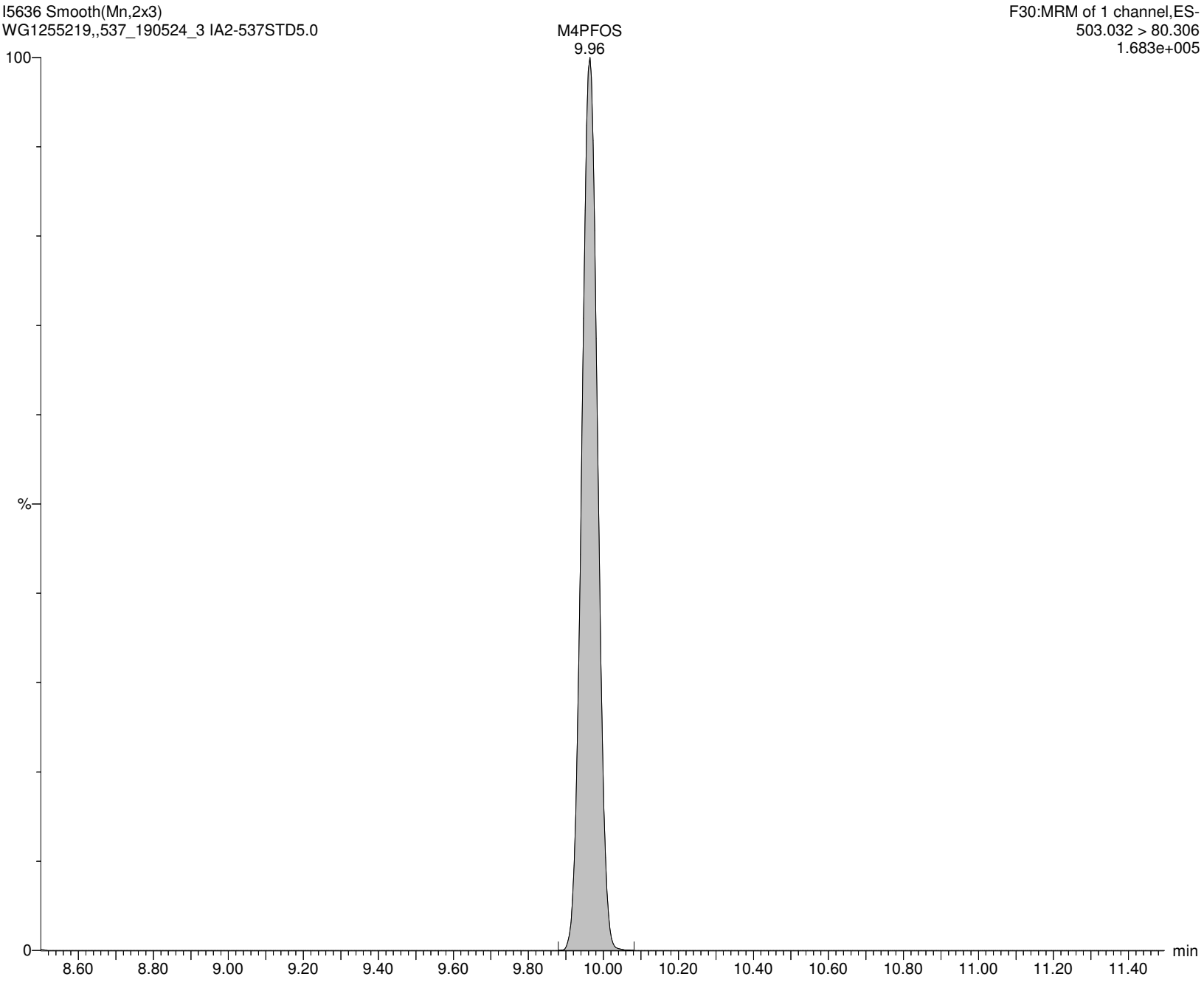


all concentration units in (ng/mL)

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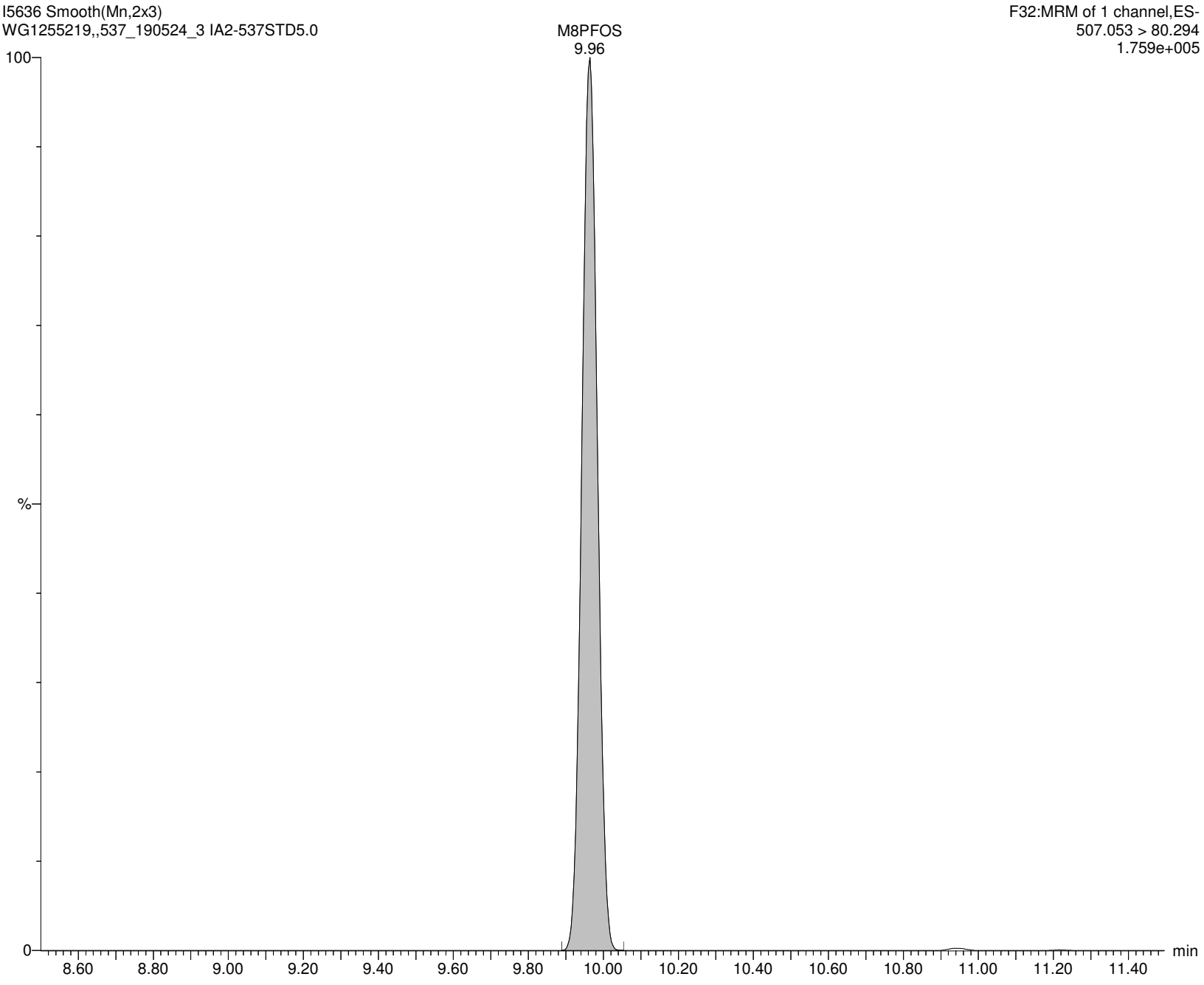


all concentration units in (ng/mL)

Alpha Analytical Inc.
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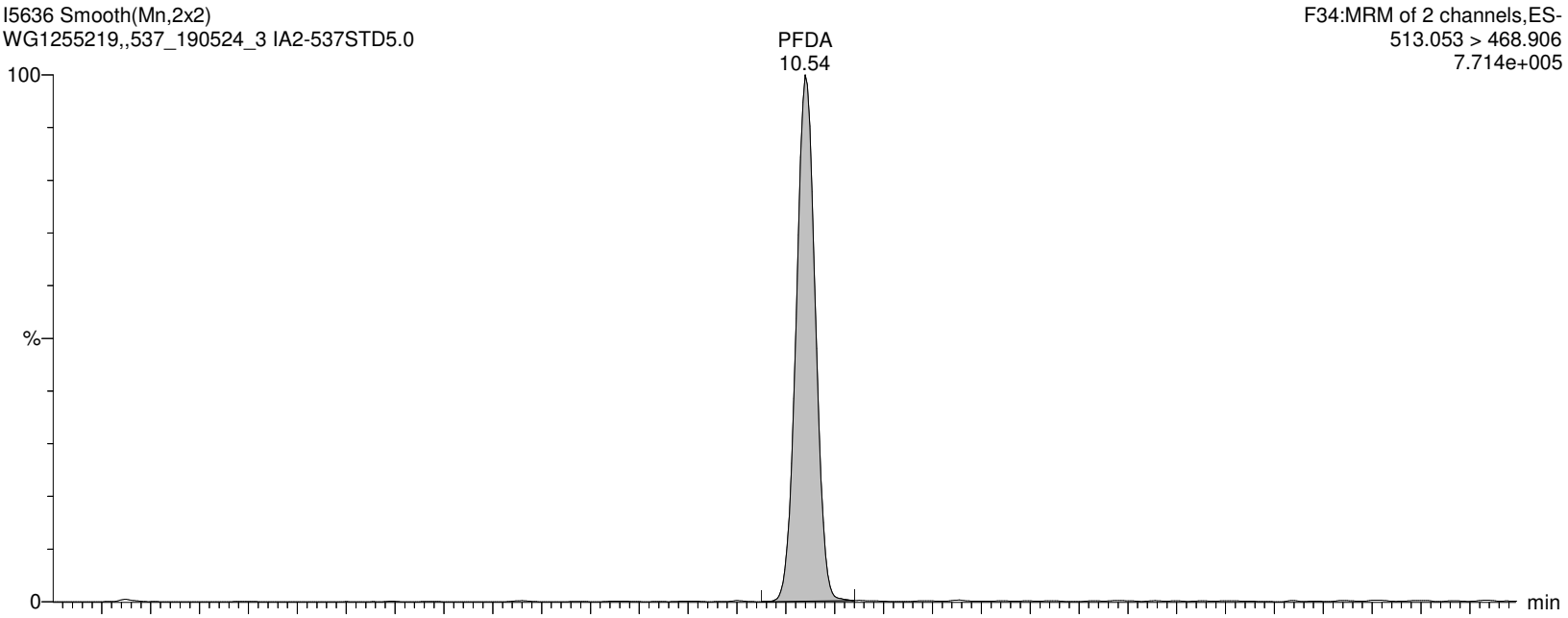


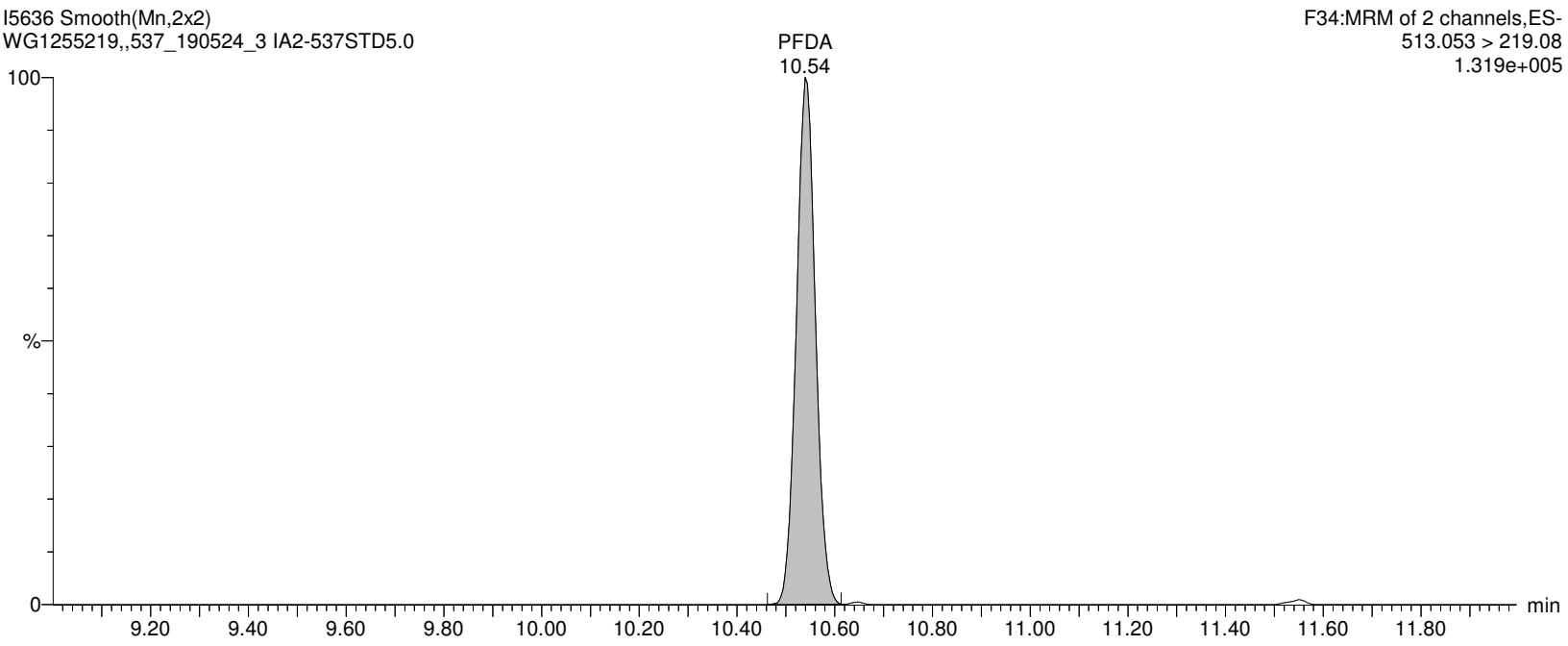
all concentration units in (ng/mL)

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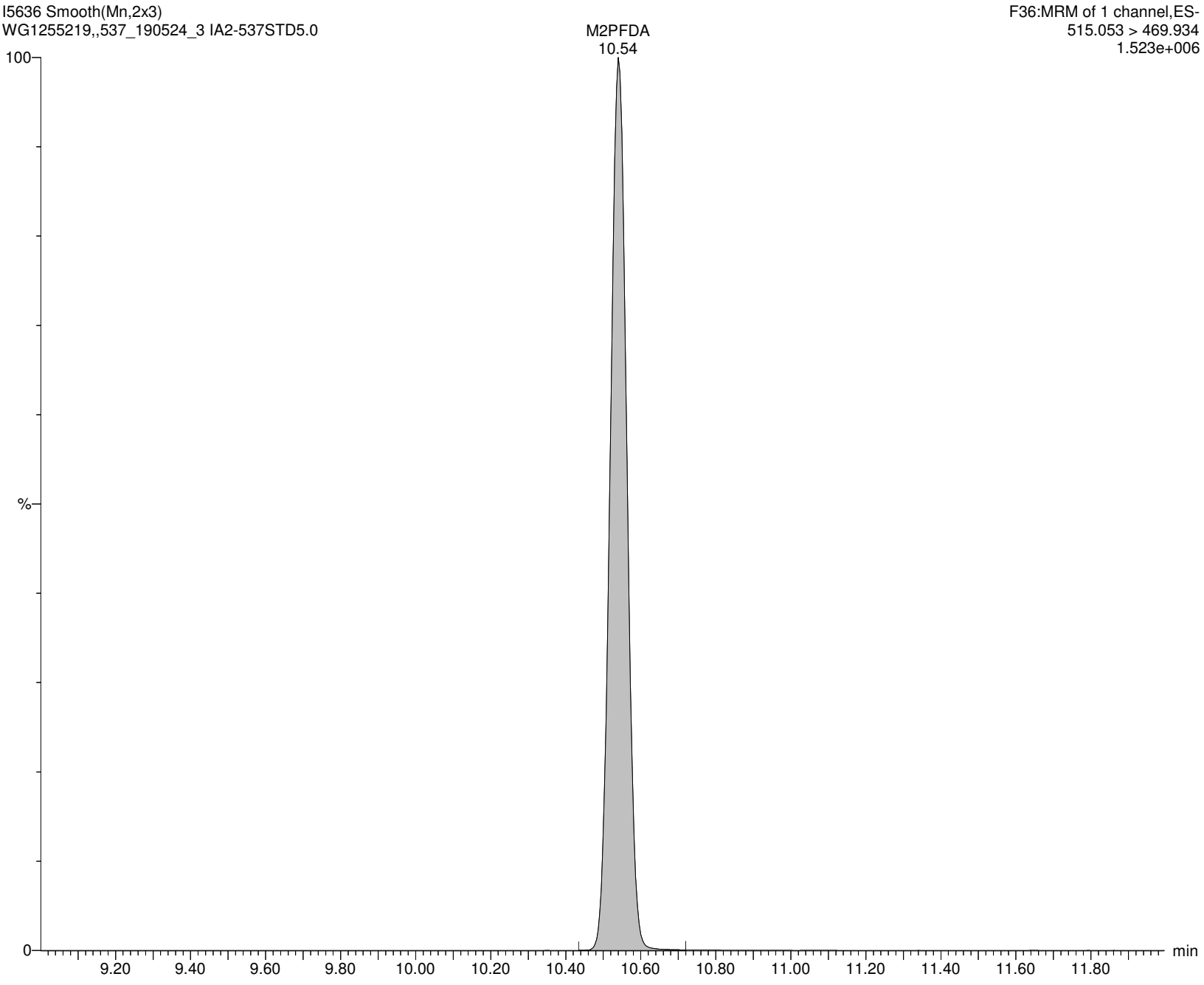


all concentration units in (ng/mL)

Alpha Analytical Inc.
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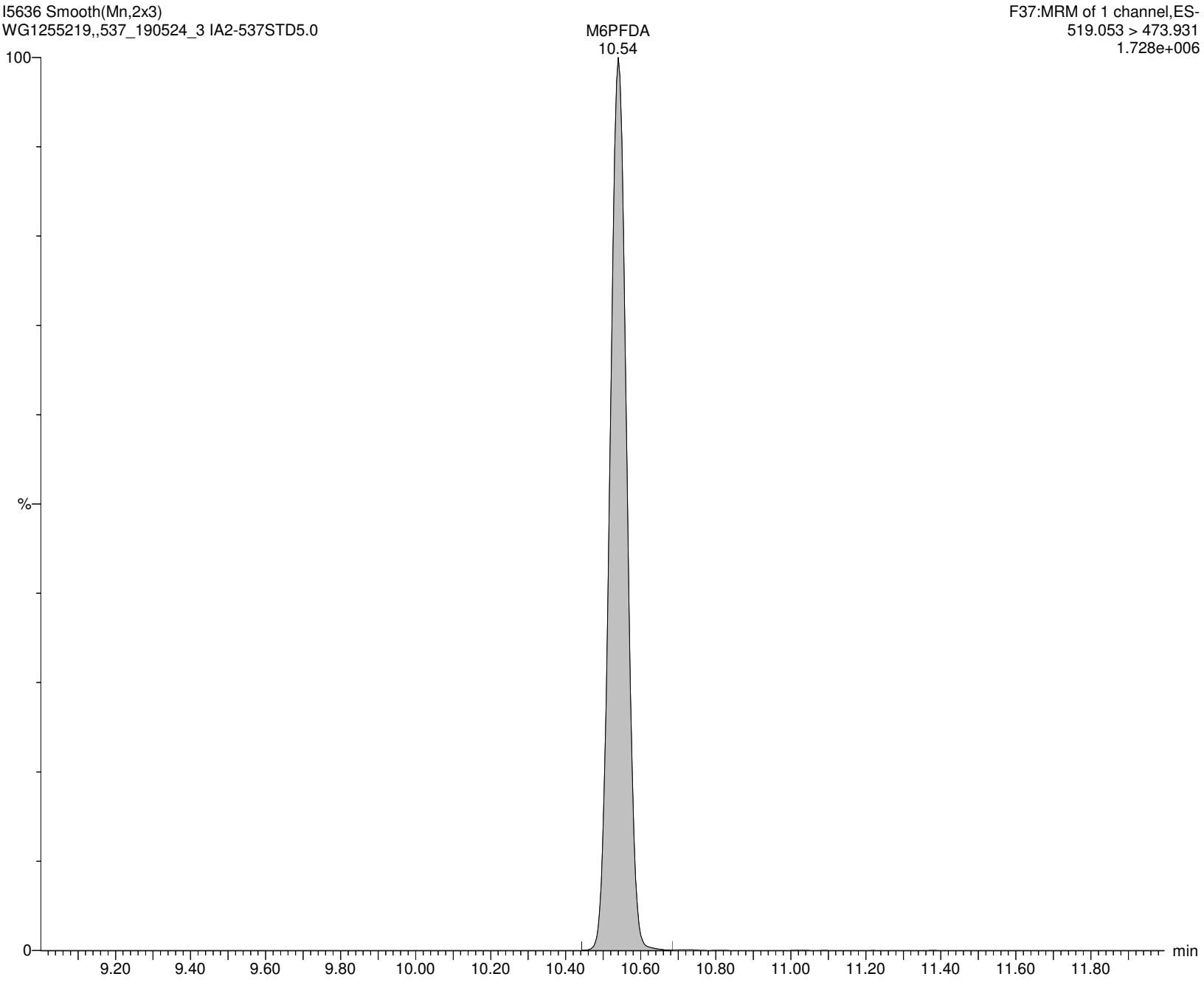


all concentration units in (ng/mL)

Alpha Analytical Inc.
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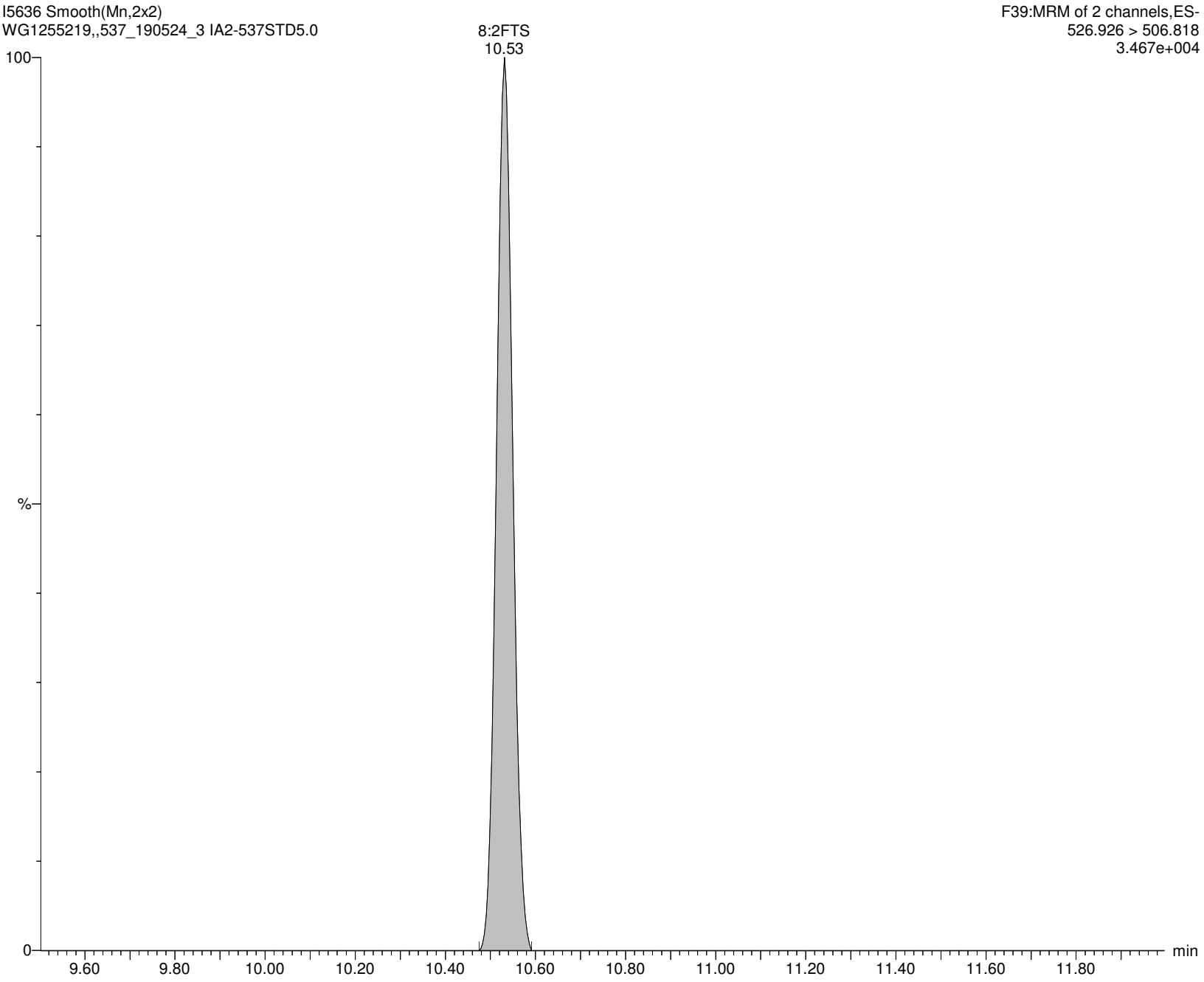


all concentration units in (ng/mL)

Alpha Analytical Inc.
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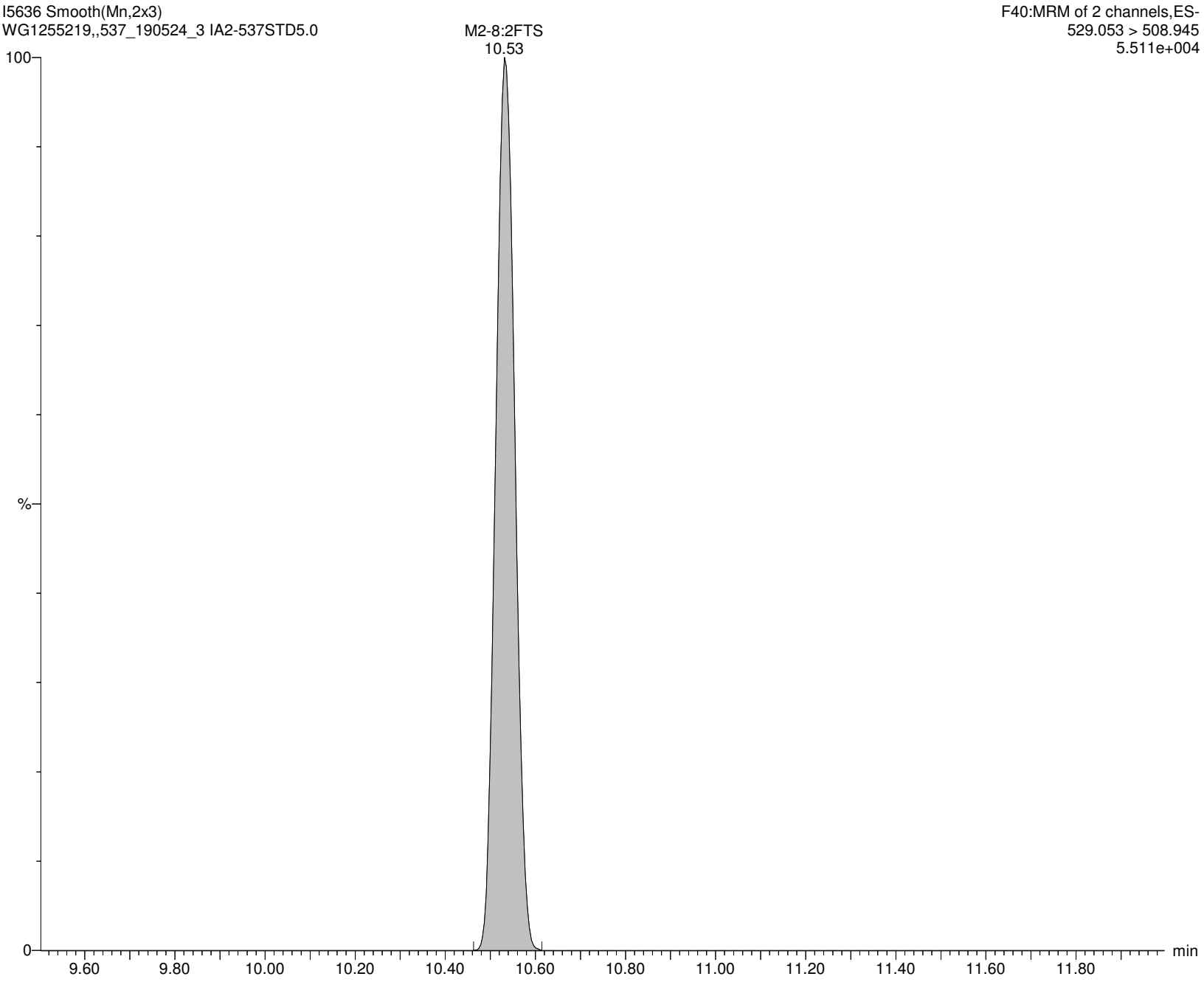


all concentration units in (ng/mL)

Alpha Analytical Inc.
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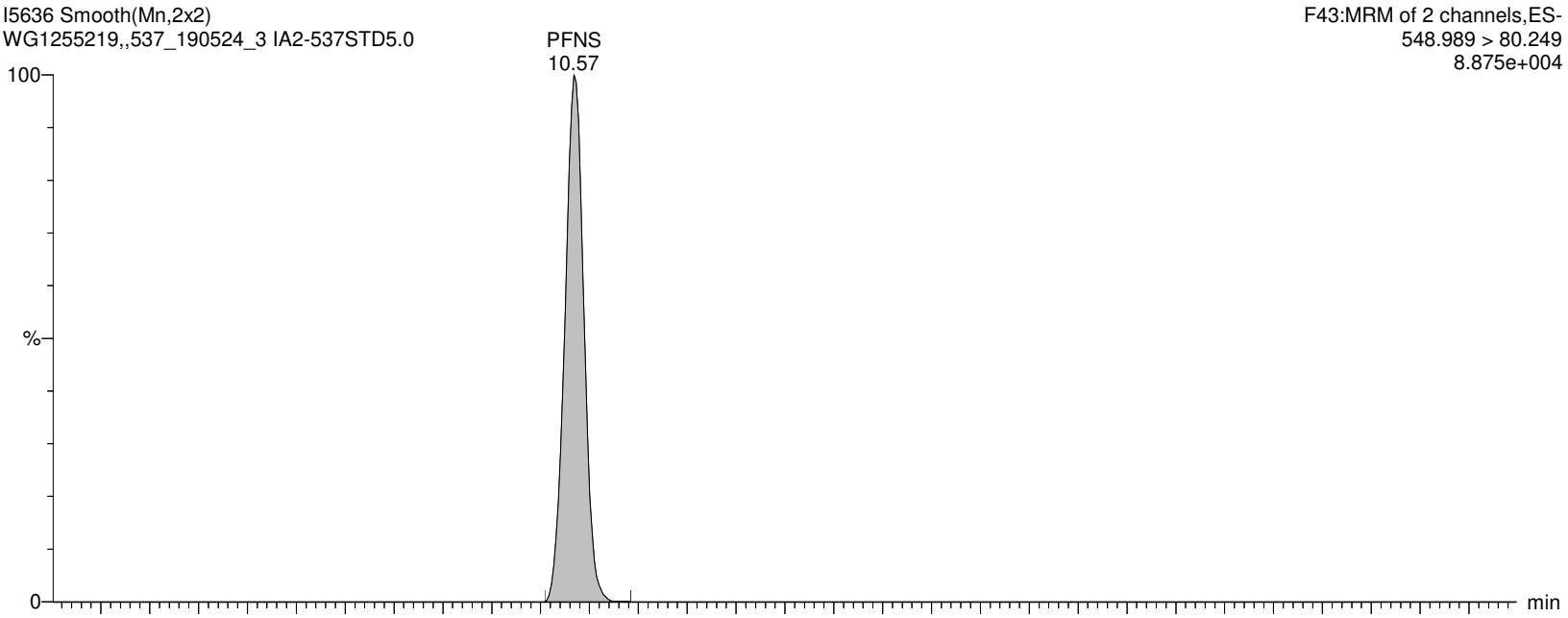


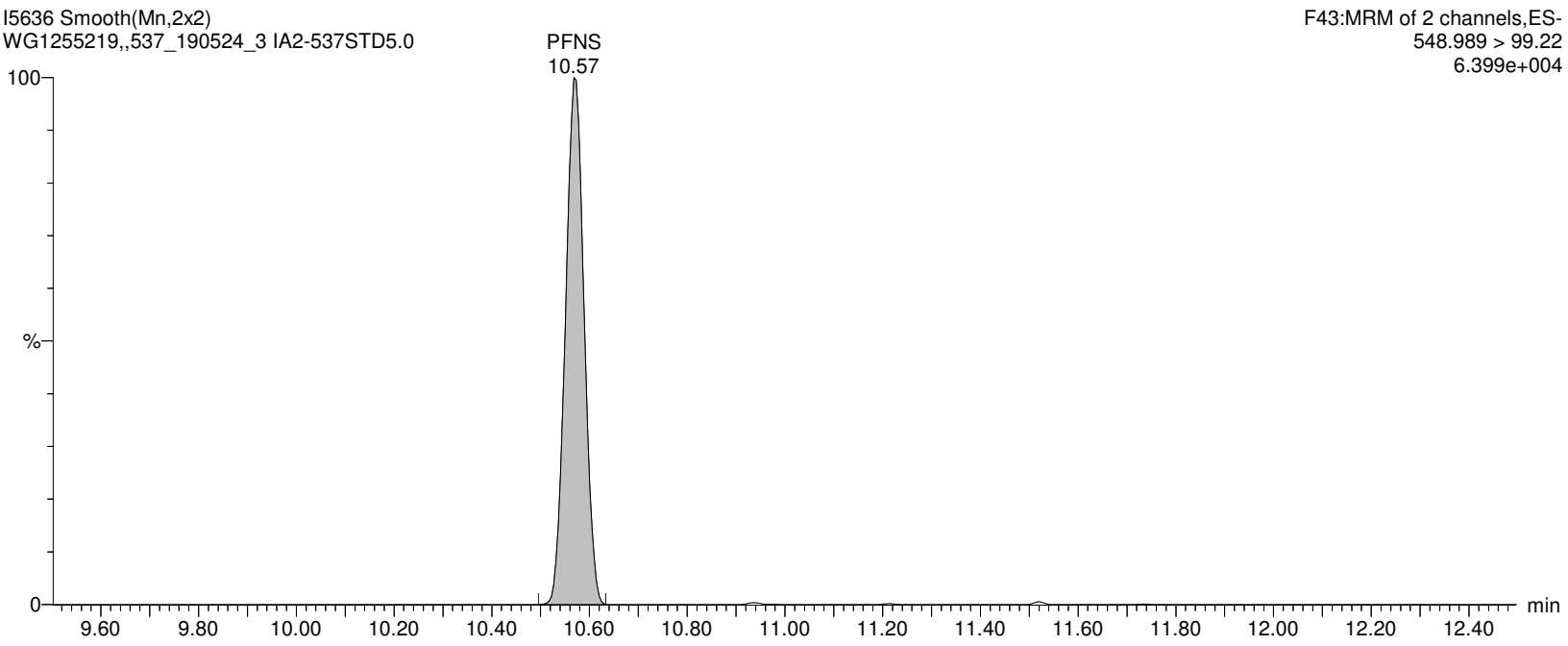
all concentration units in (ng/mL)

Alpha Analytical Inc.
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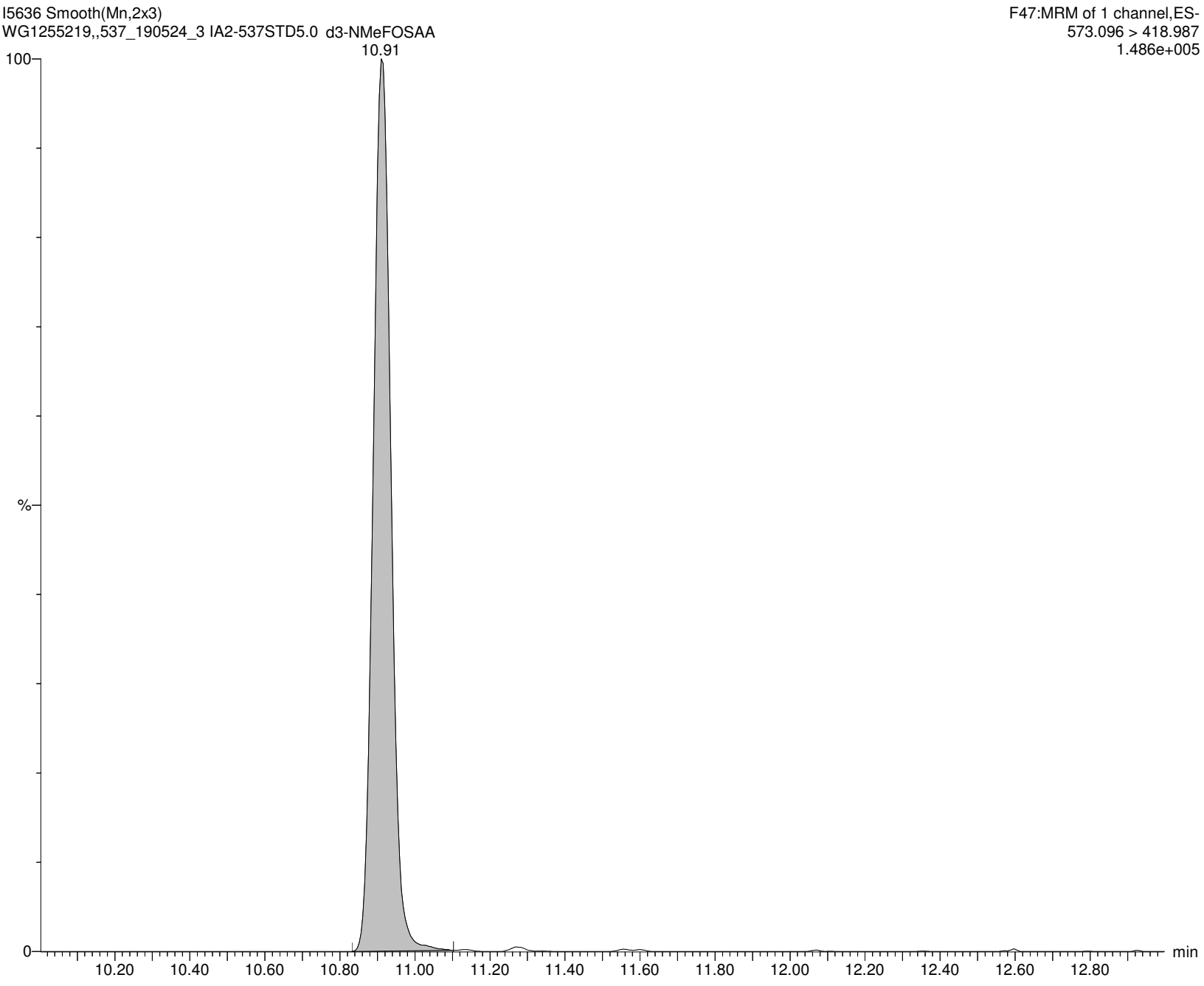


all concentration units in (ng/mL)

Alpha Analytical Inc.
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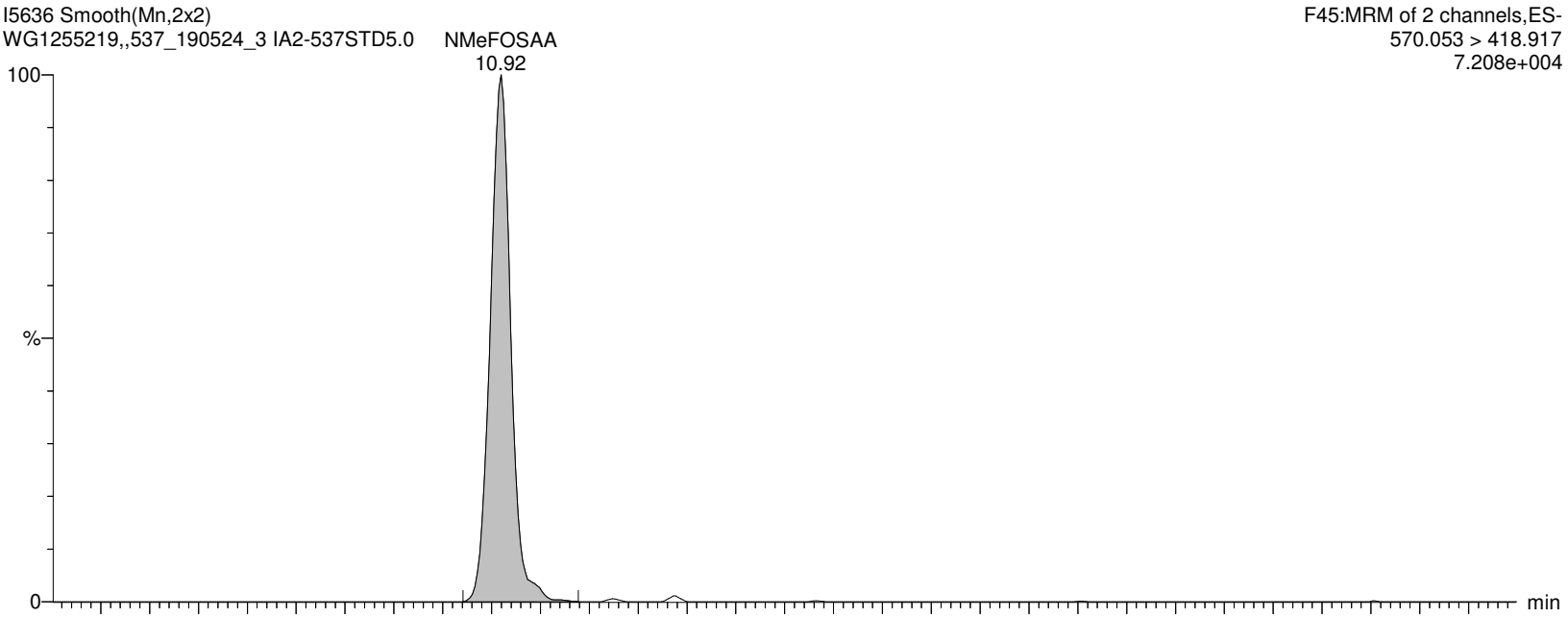


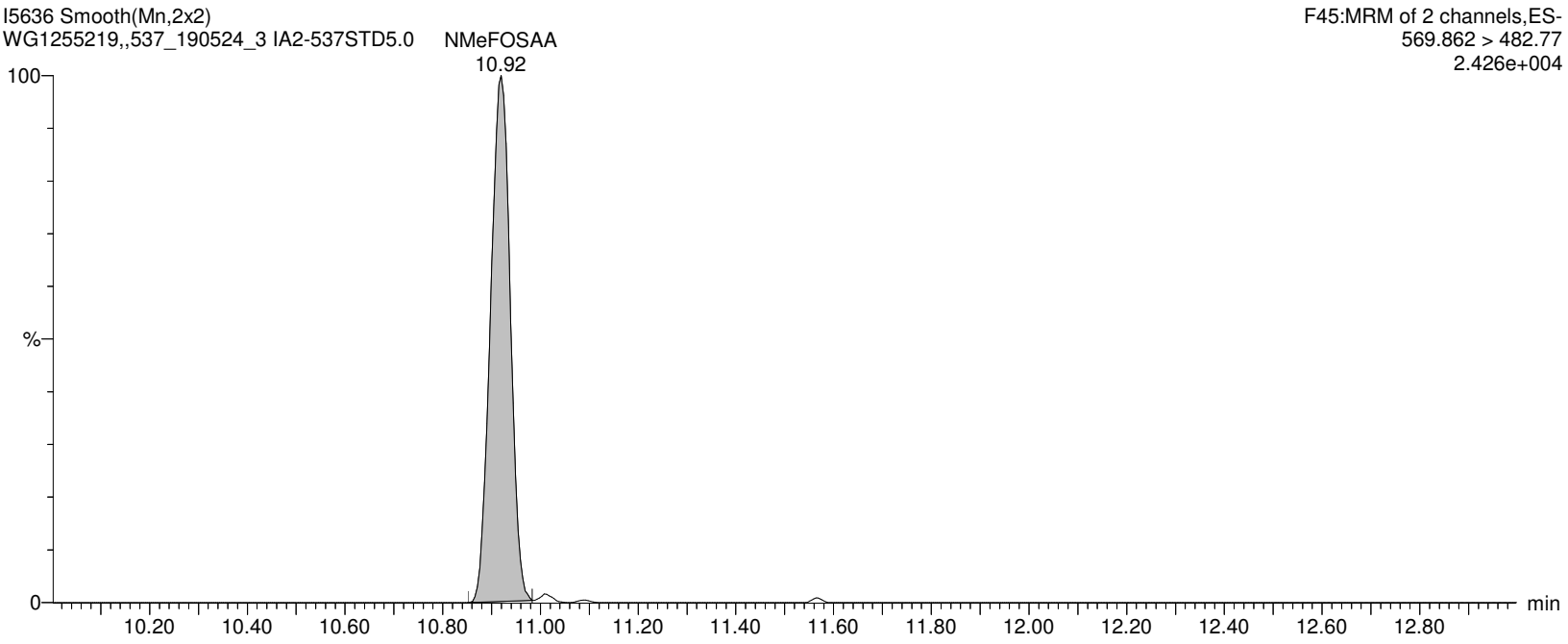
all concentration units in (ng/mL)

Alpha Analytical Inc.
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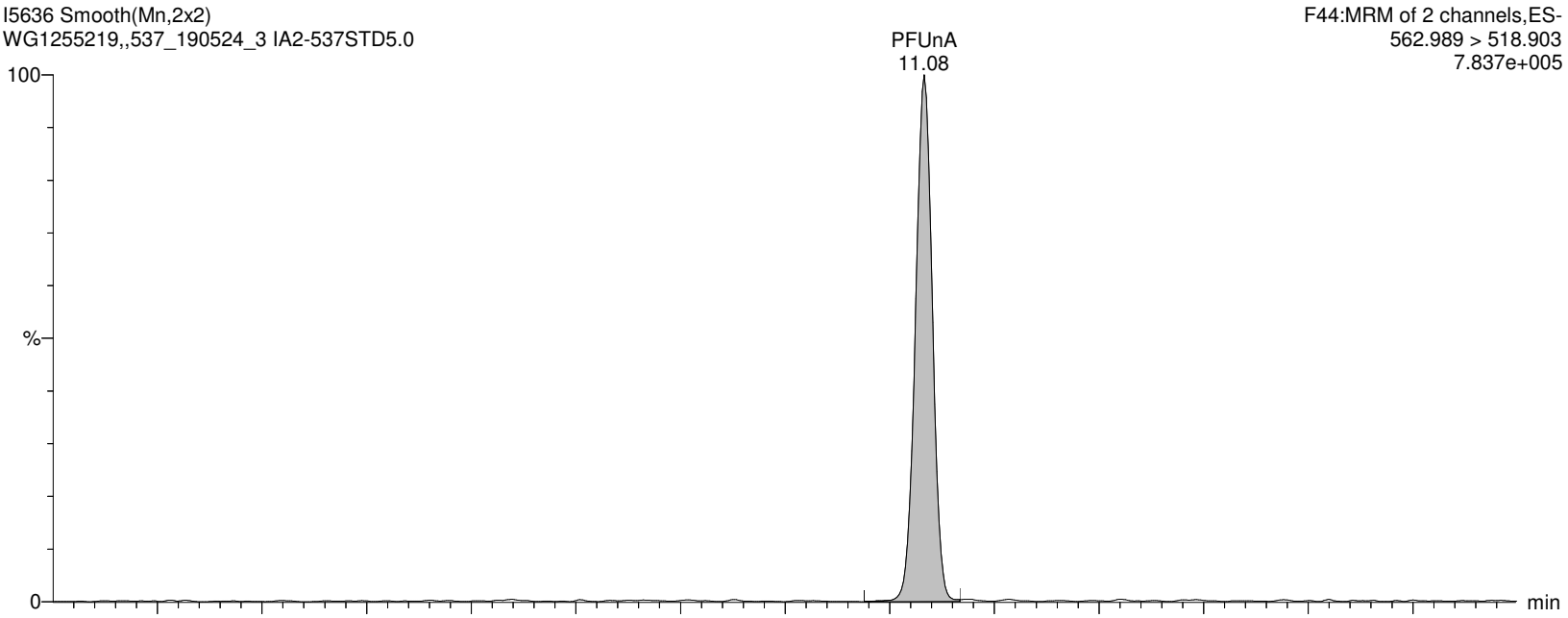


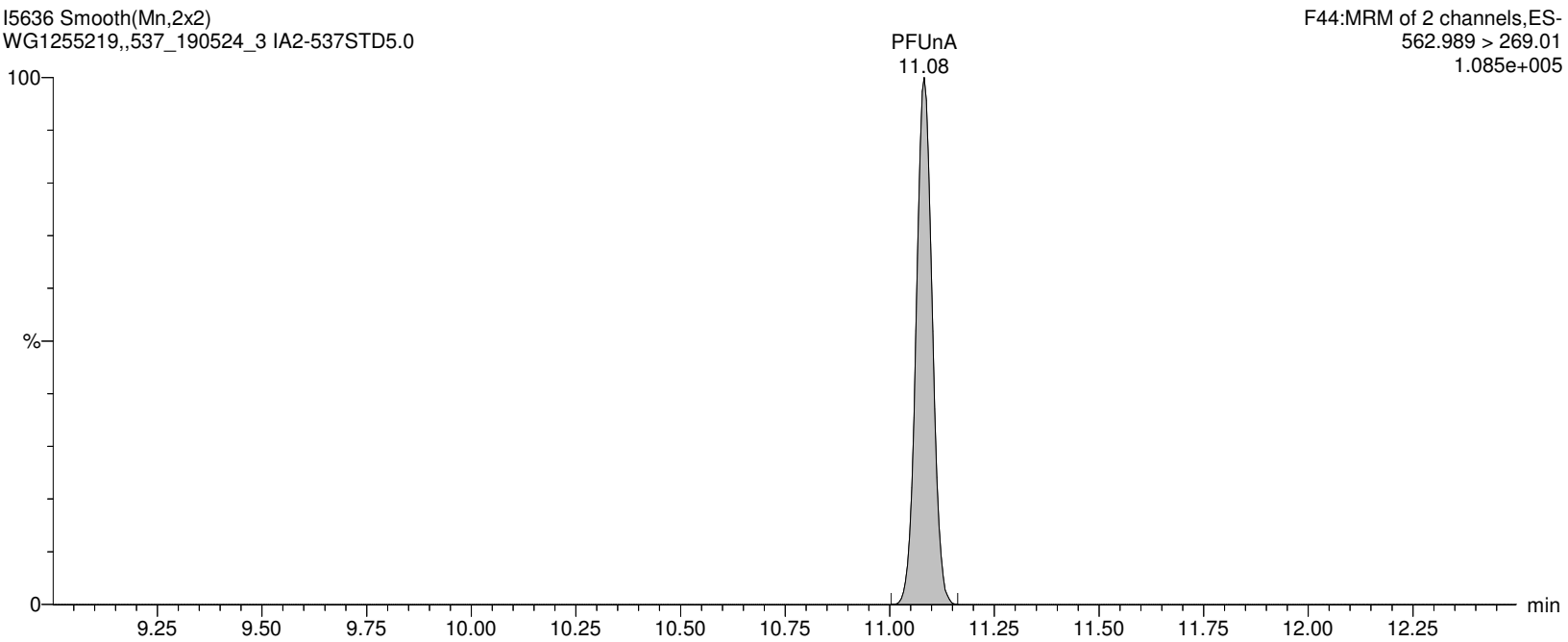
all concentration units in (ng/mL)

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PFUnA



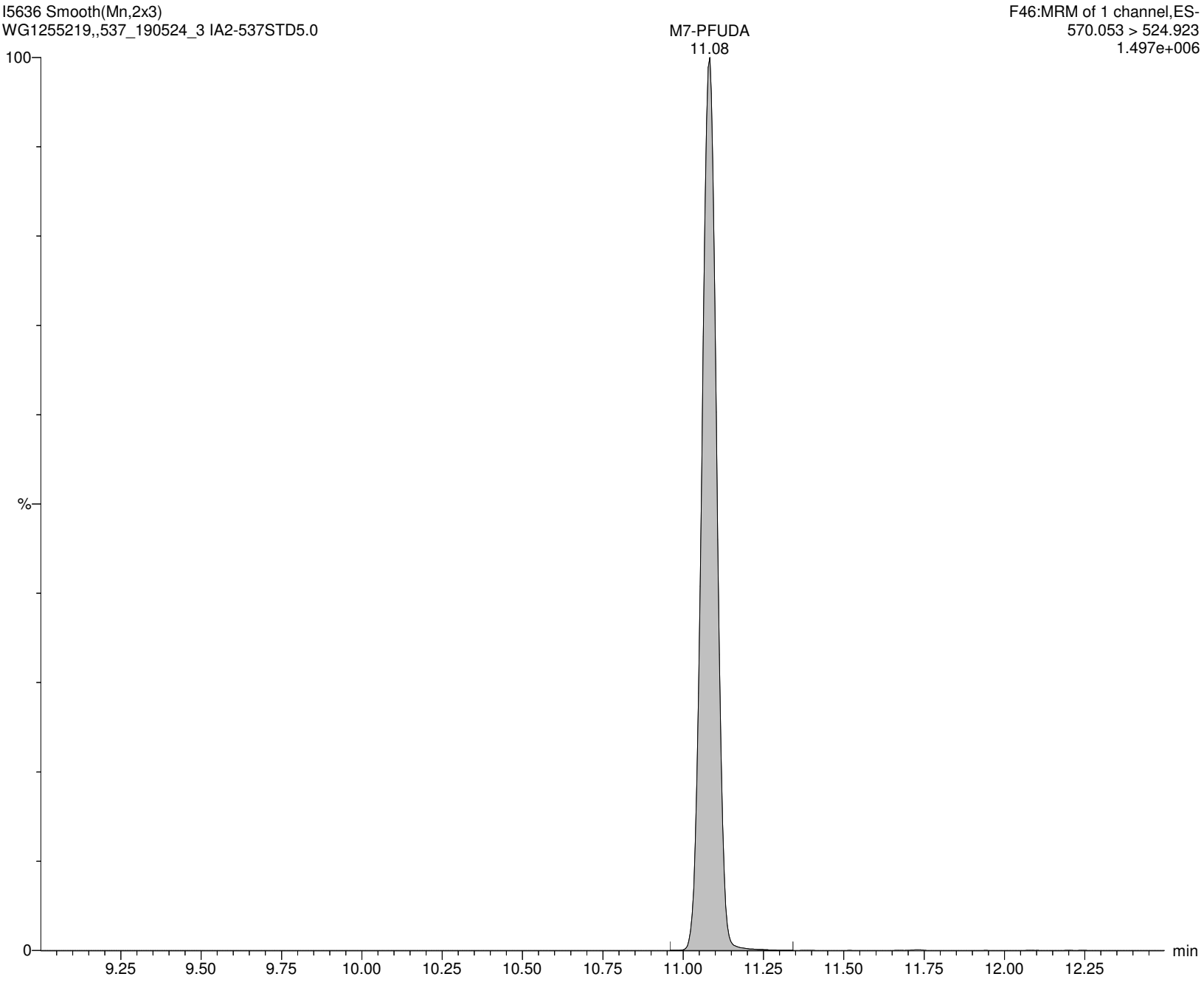


all concentration units in (ng/mL)

Alpha Analytical Inc.
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M7-PFUDA

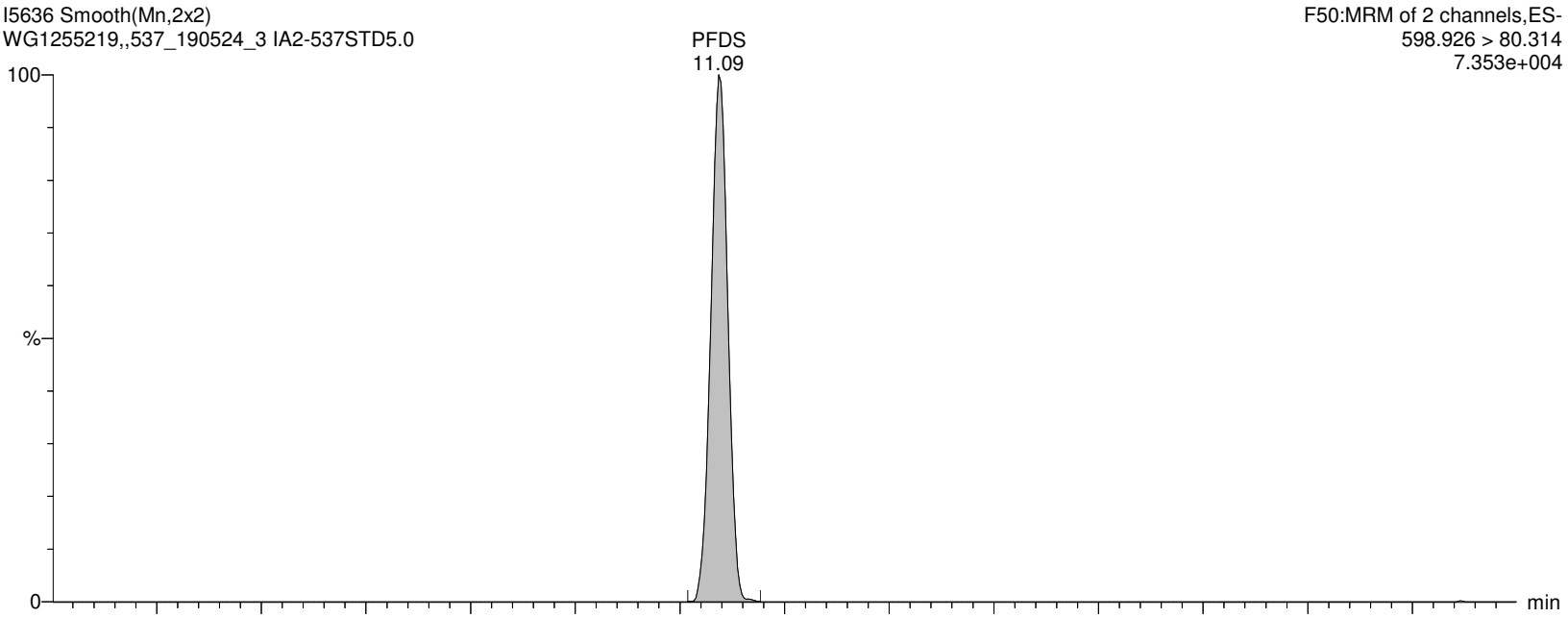


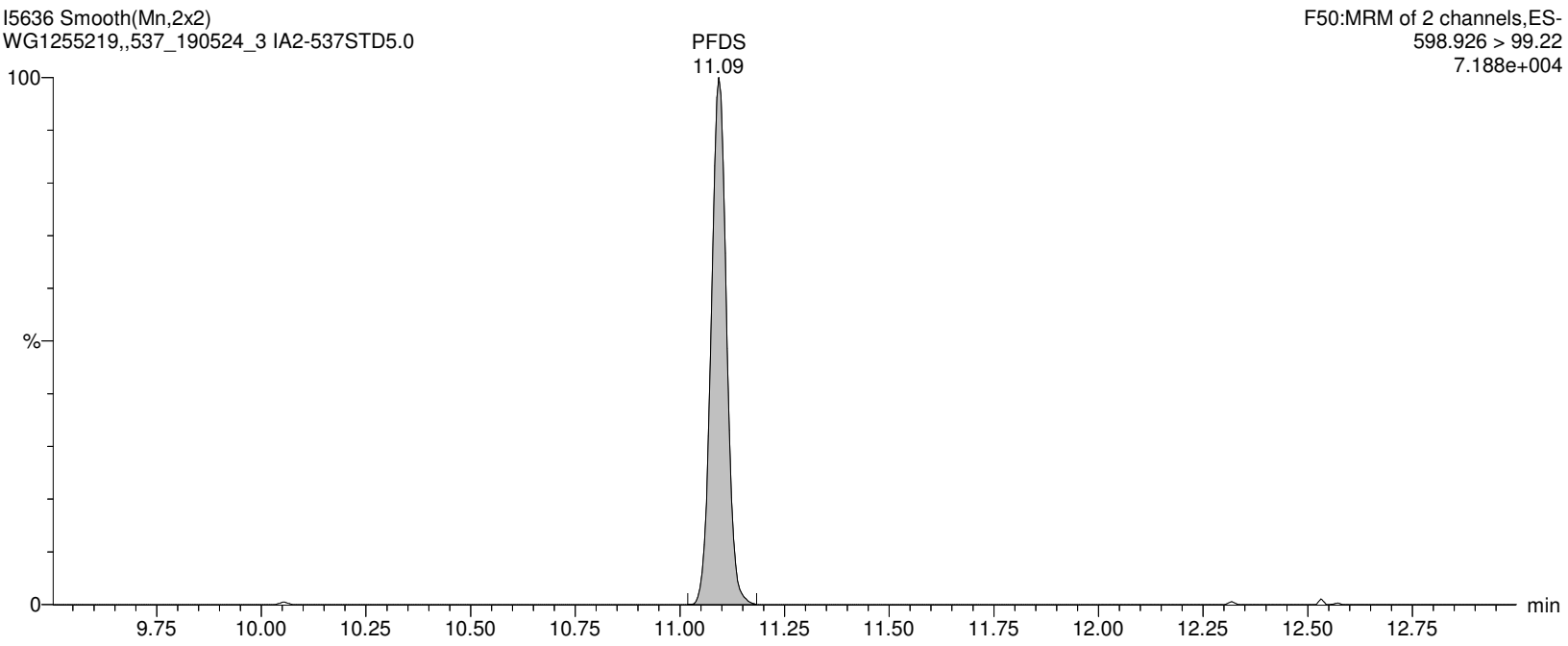
all concentration units in (ng/mL)

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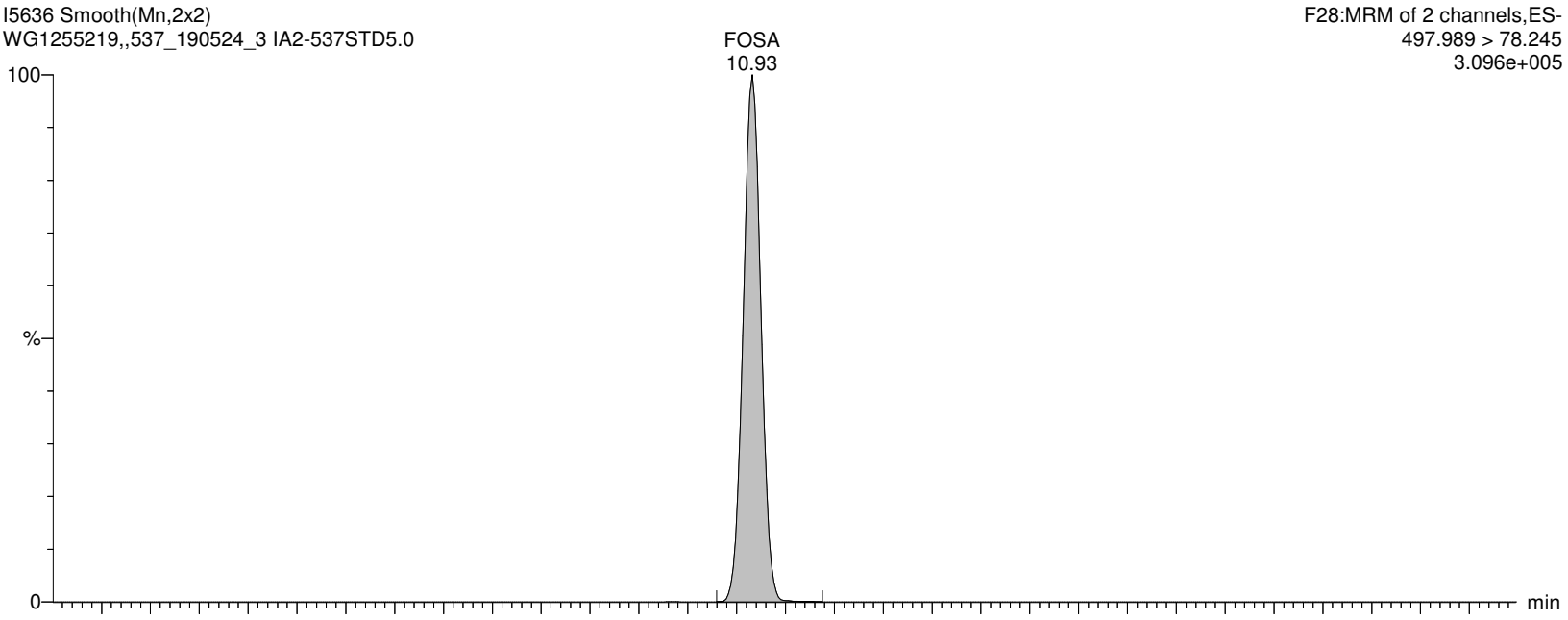


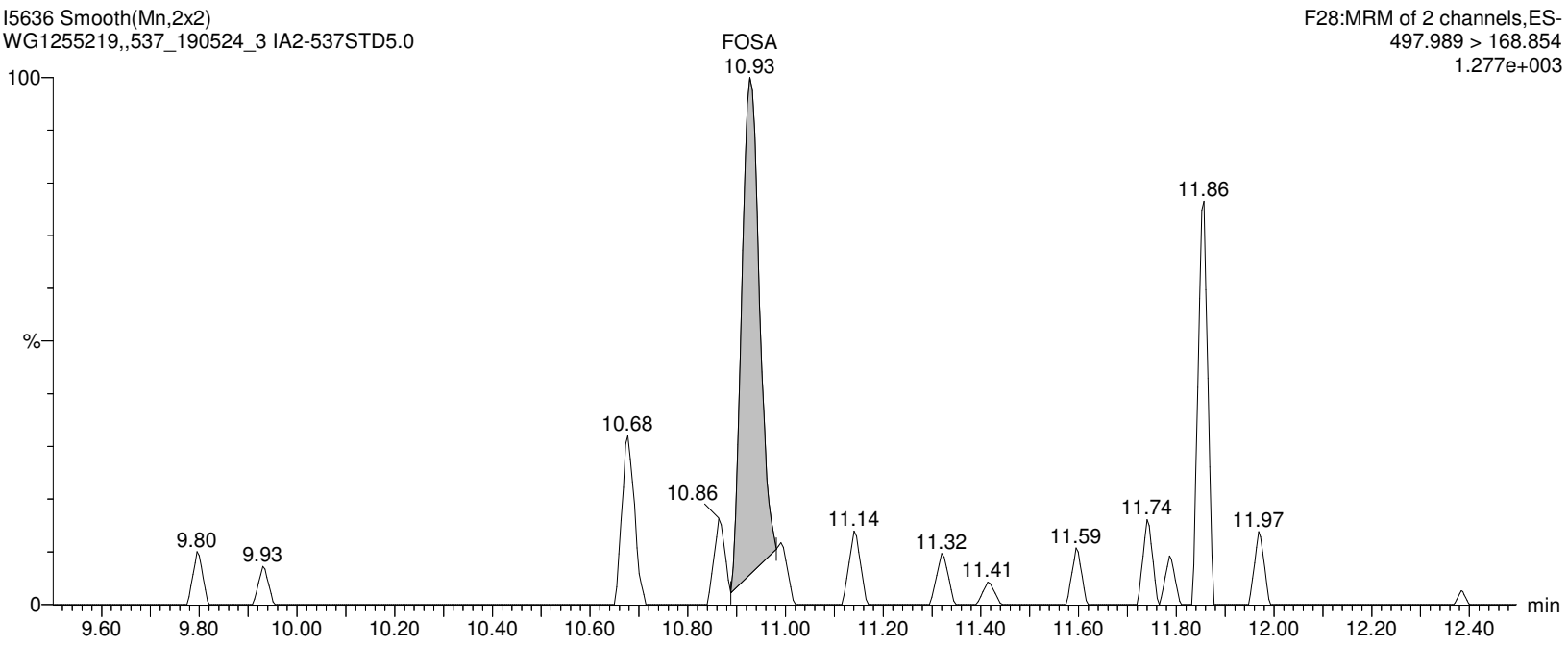
all concentration units in (ng/mL)

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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:34 Eastern Daylight Time

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Date: 01-Jul-2019
Time: 18:30:29
Description: WG1255219,,537_190524_3
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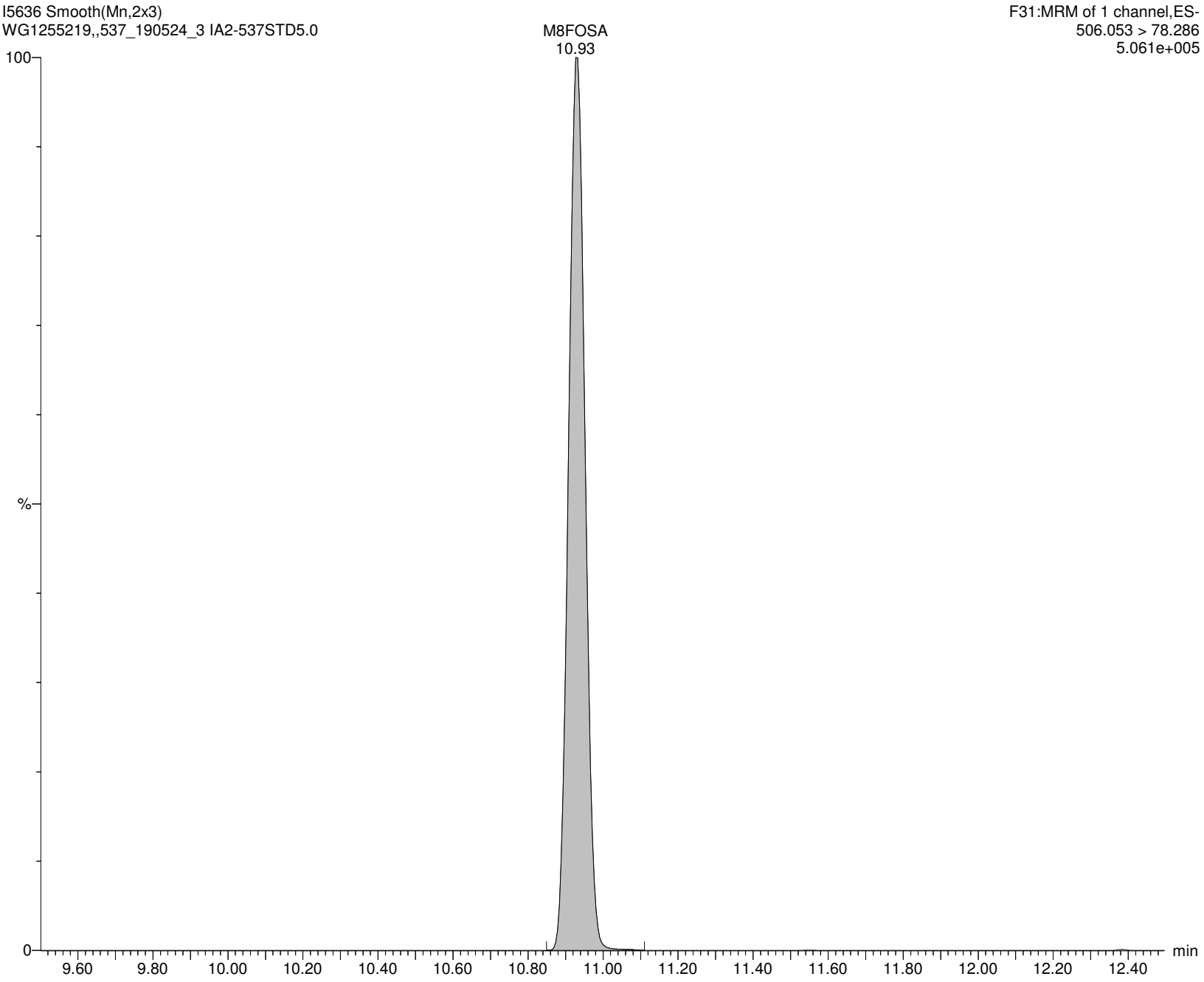


all concentration units in (ng/mL)

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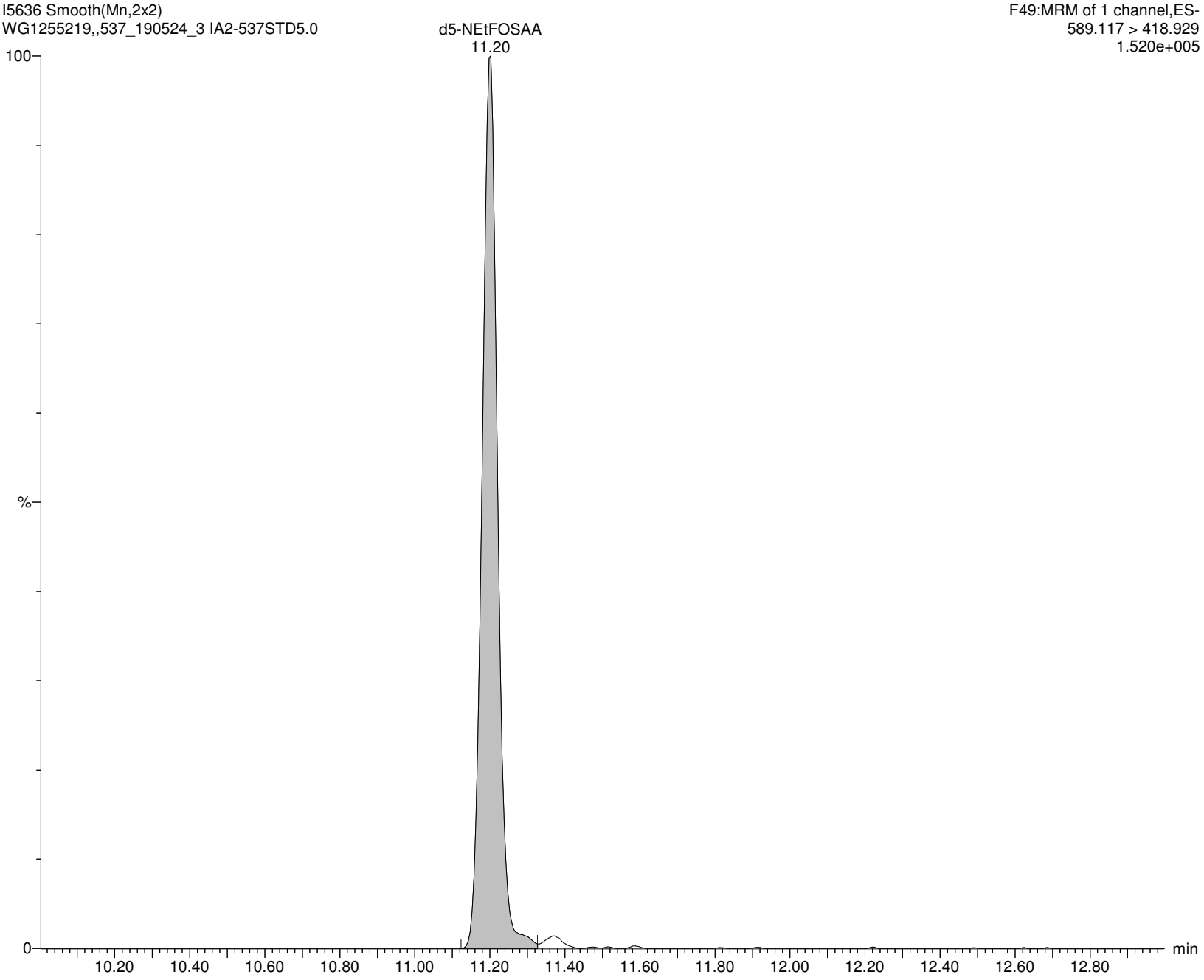


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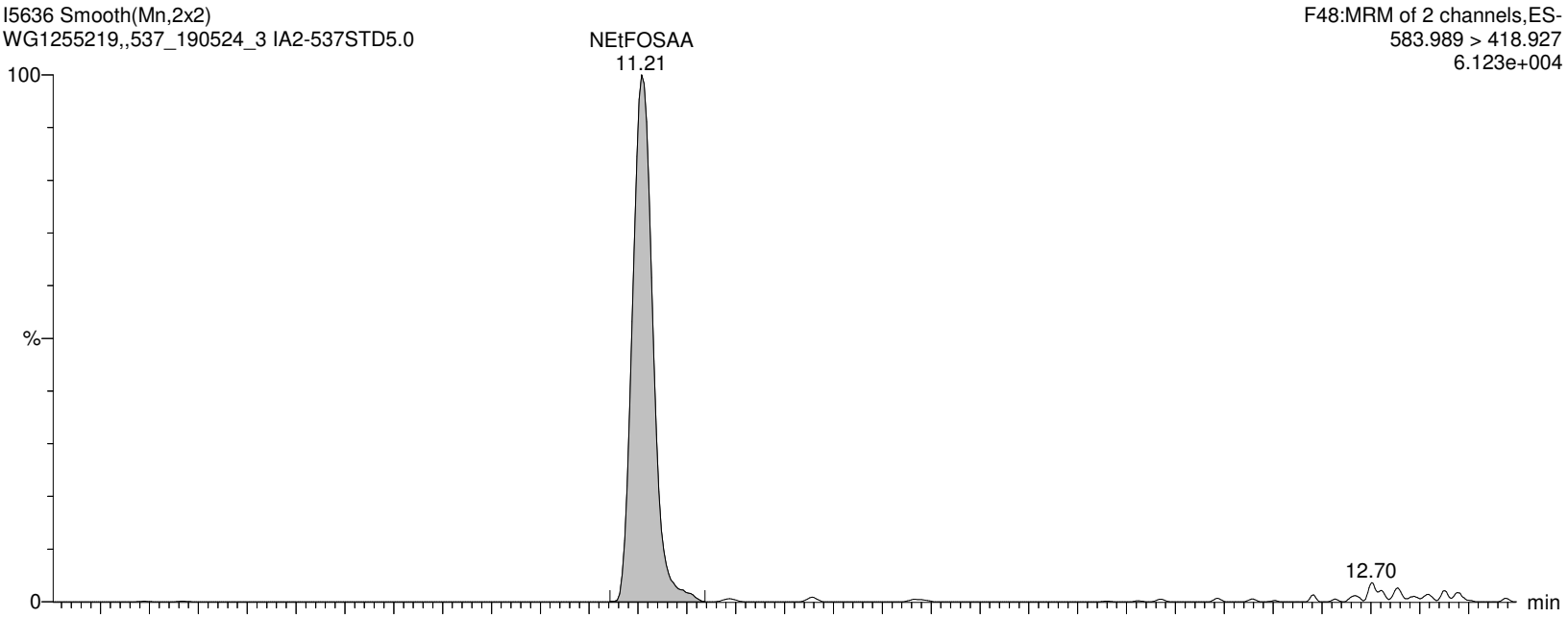


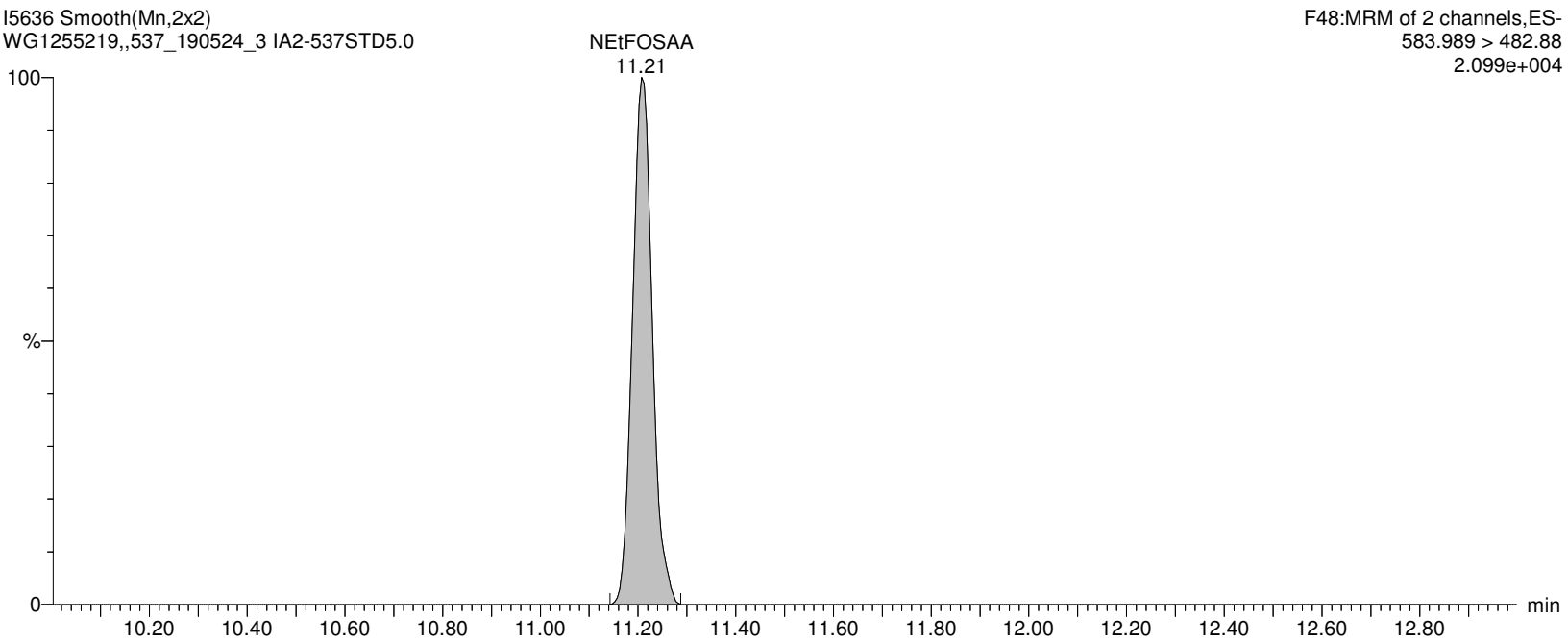
all concentration units in (ng/mL)

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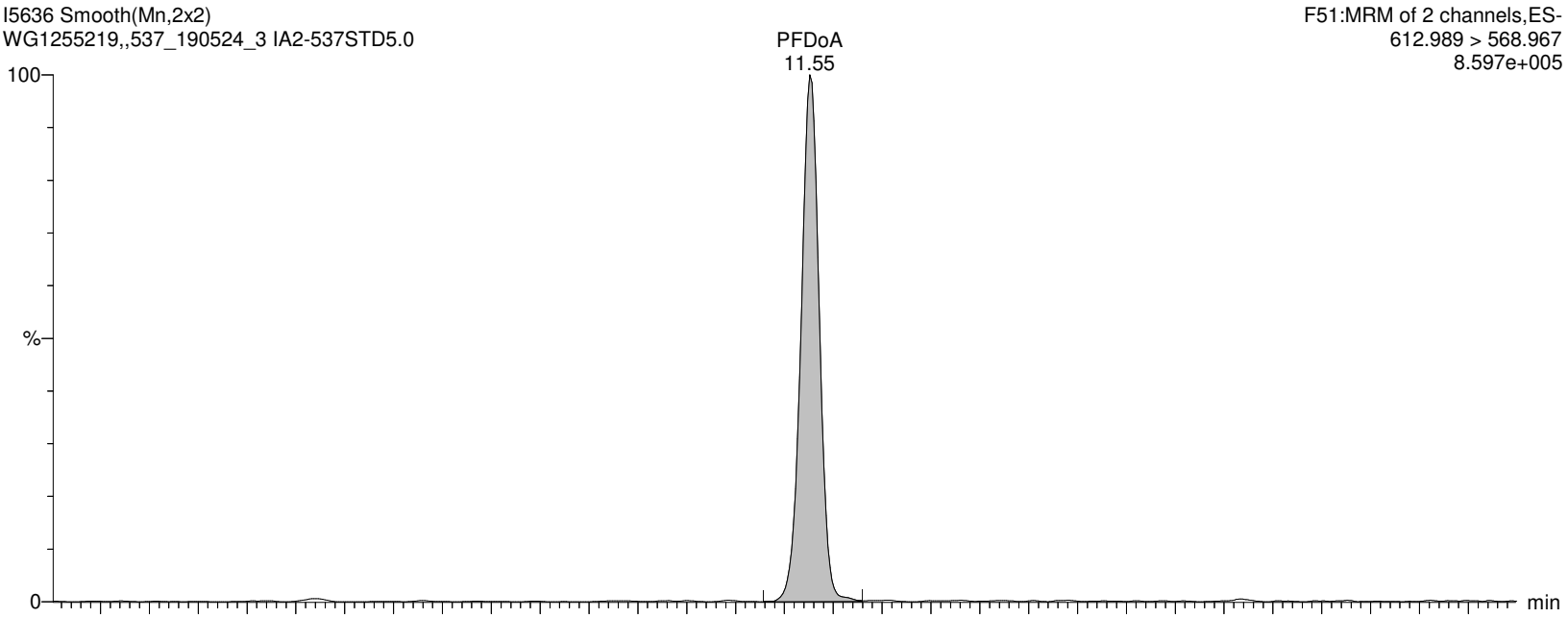


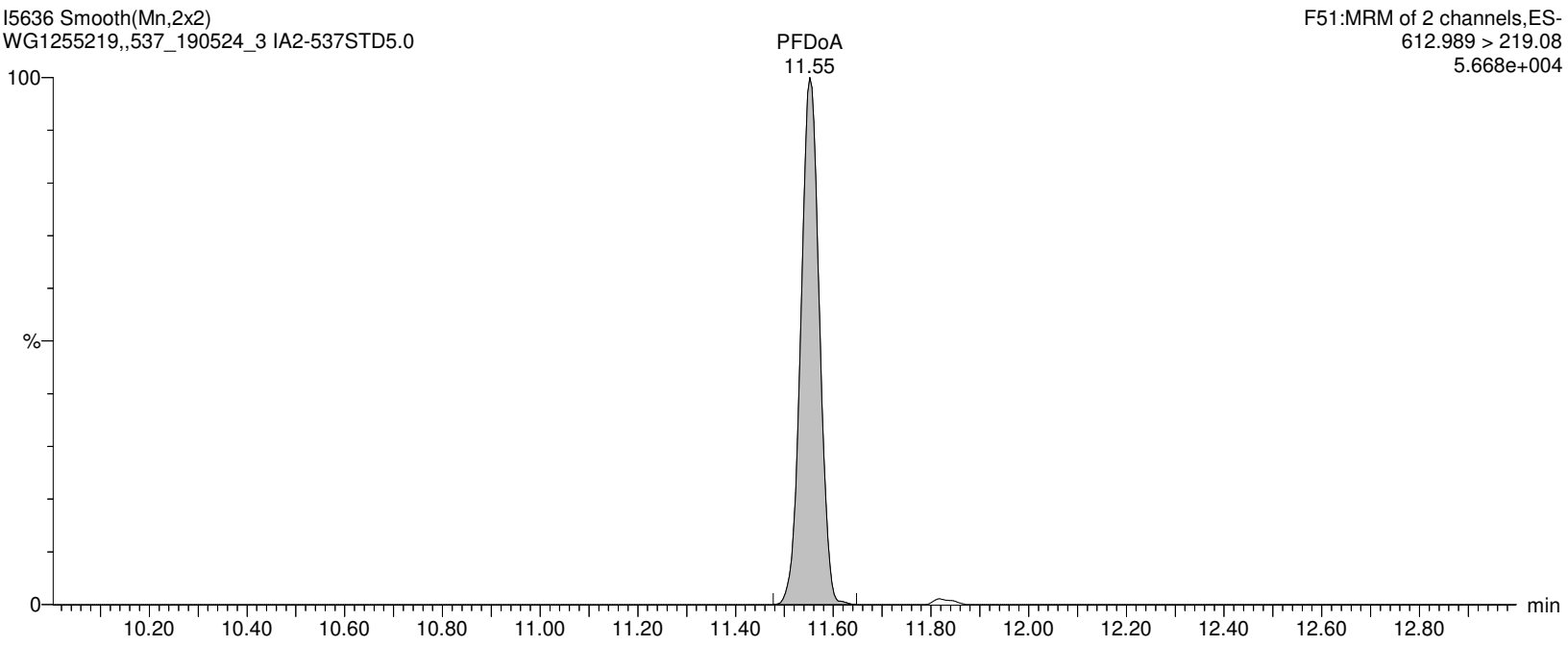
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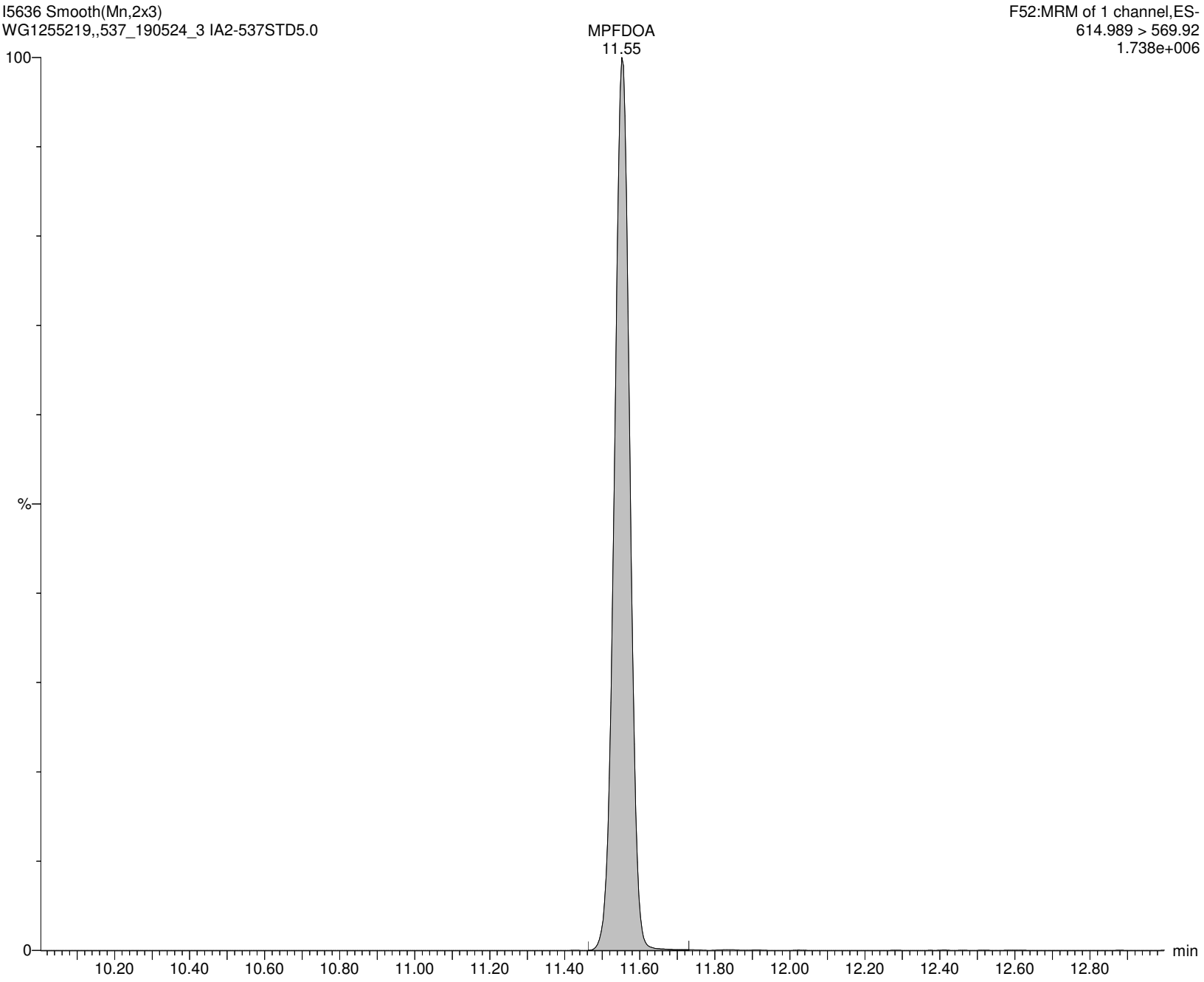


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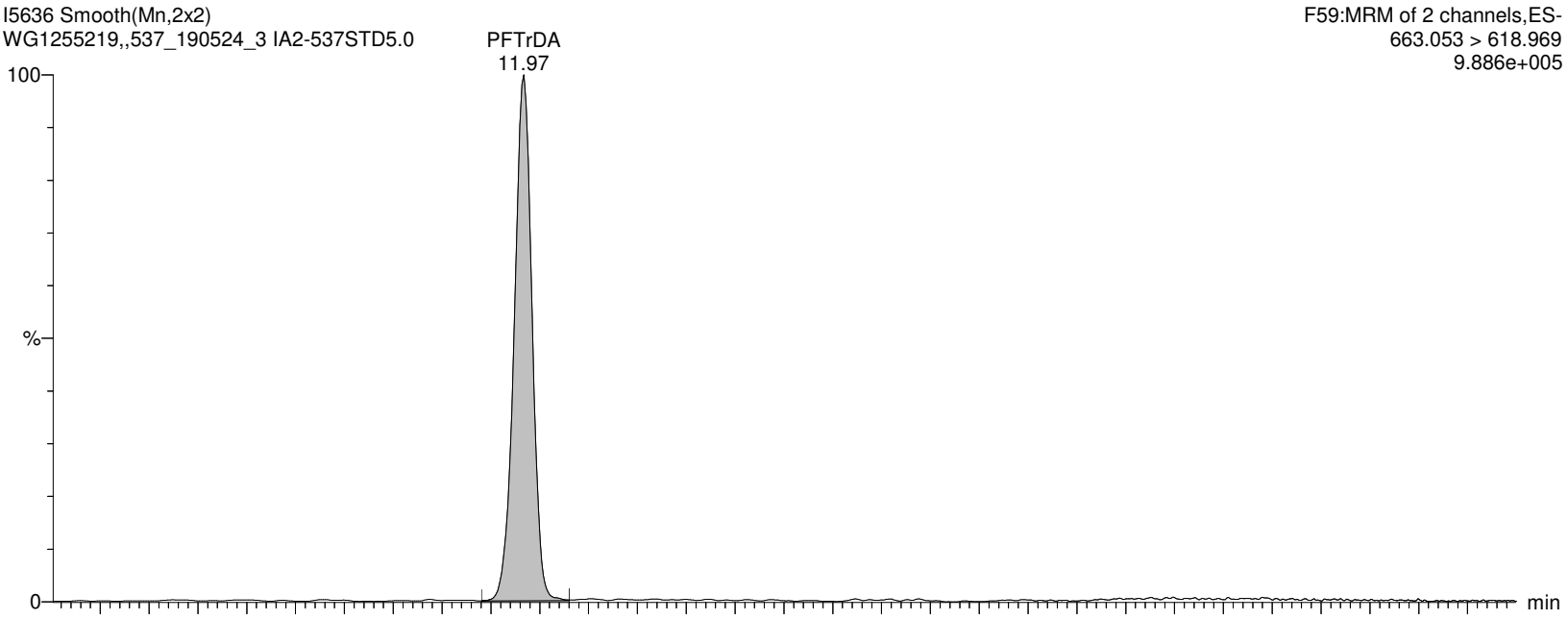


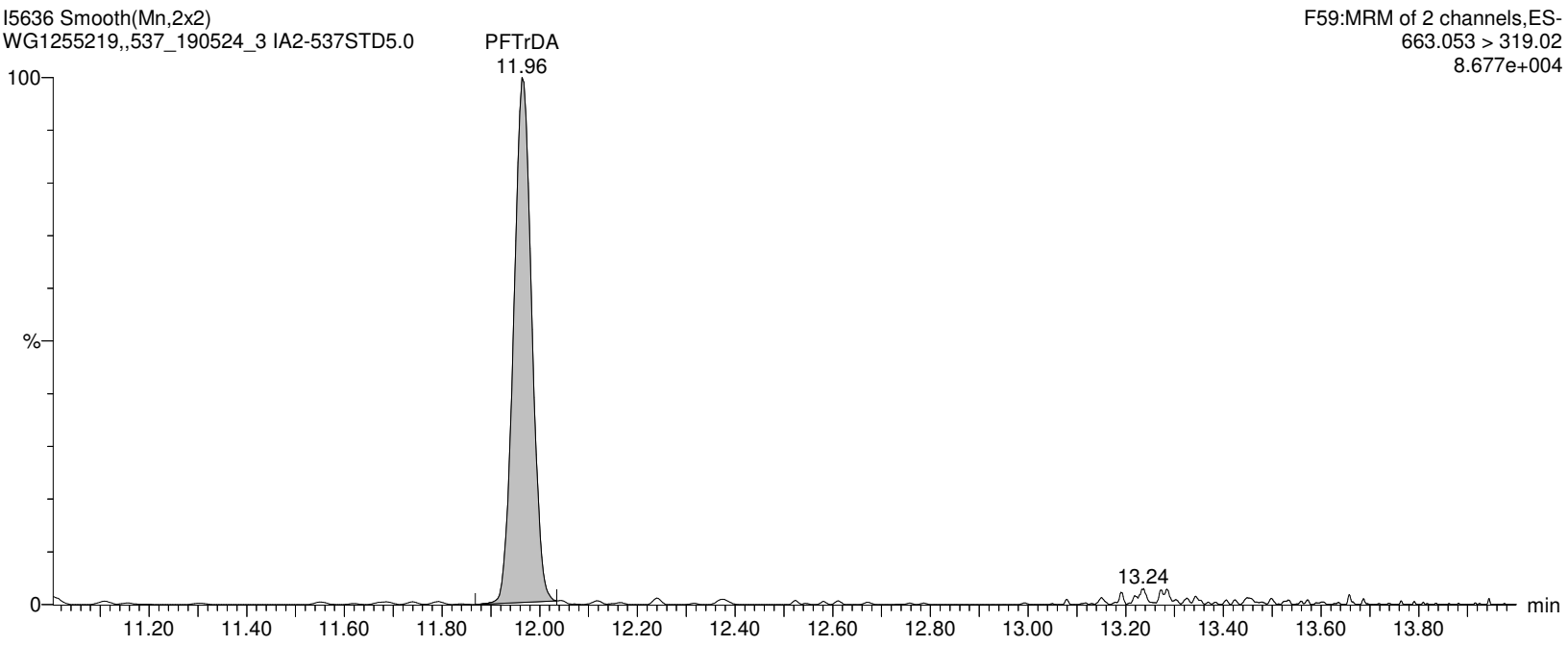
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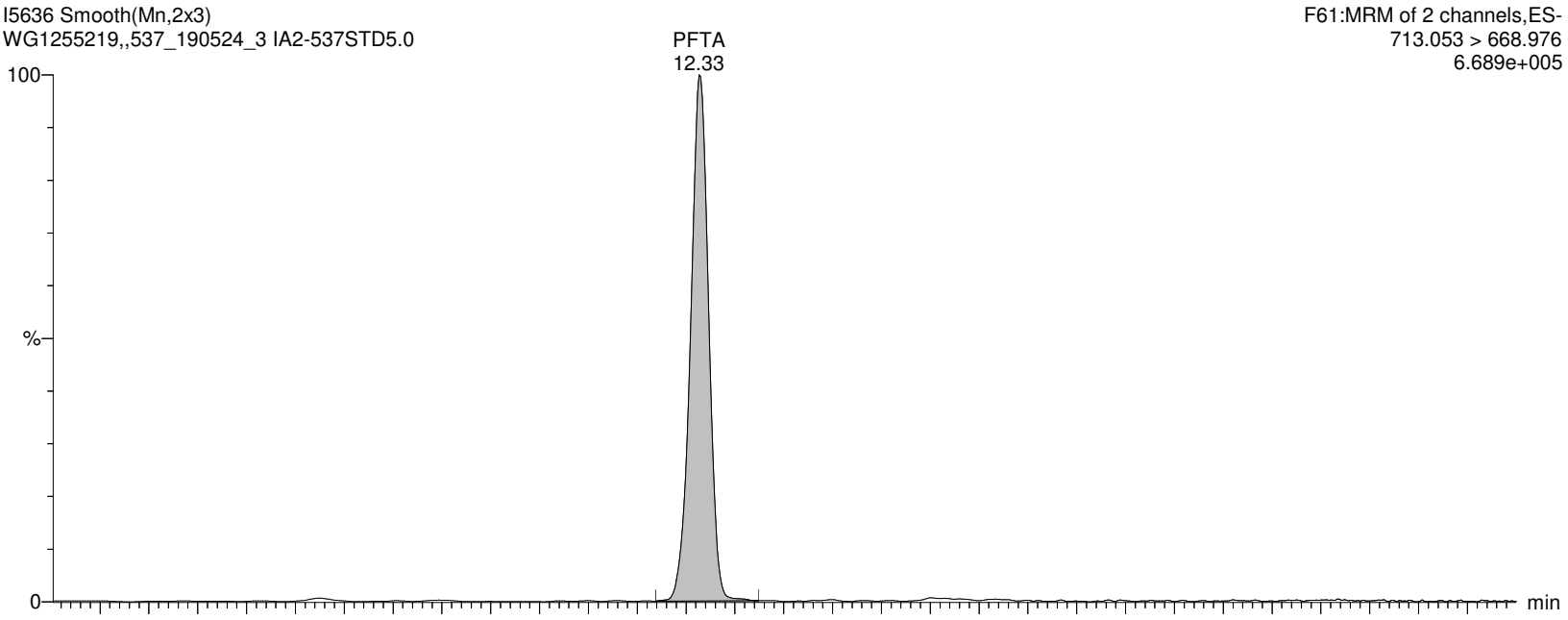


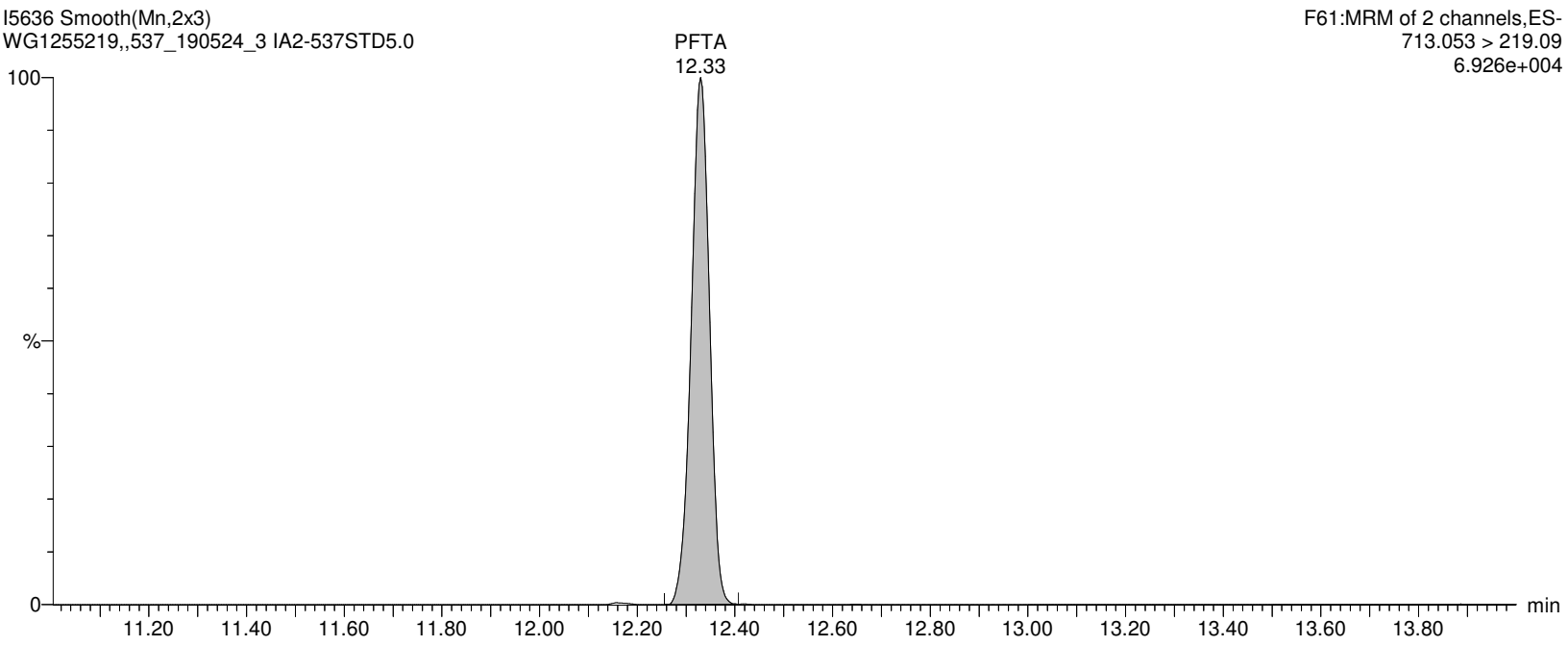
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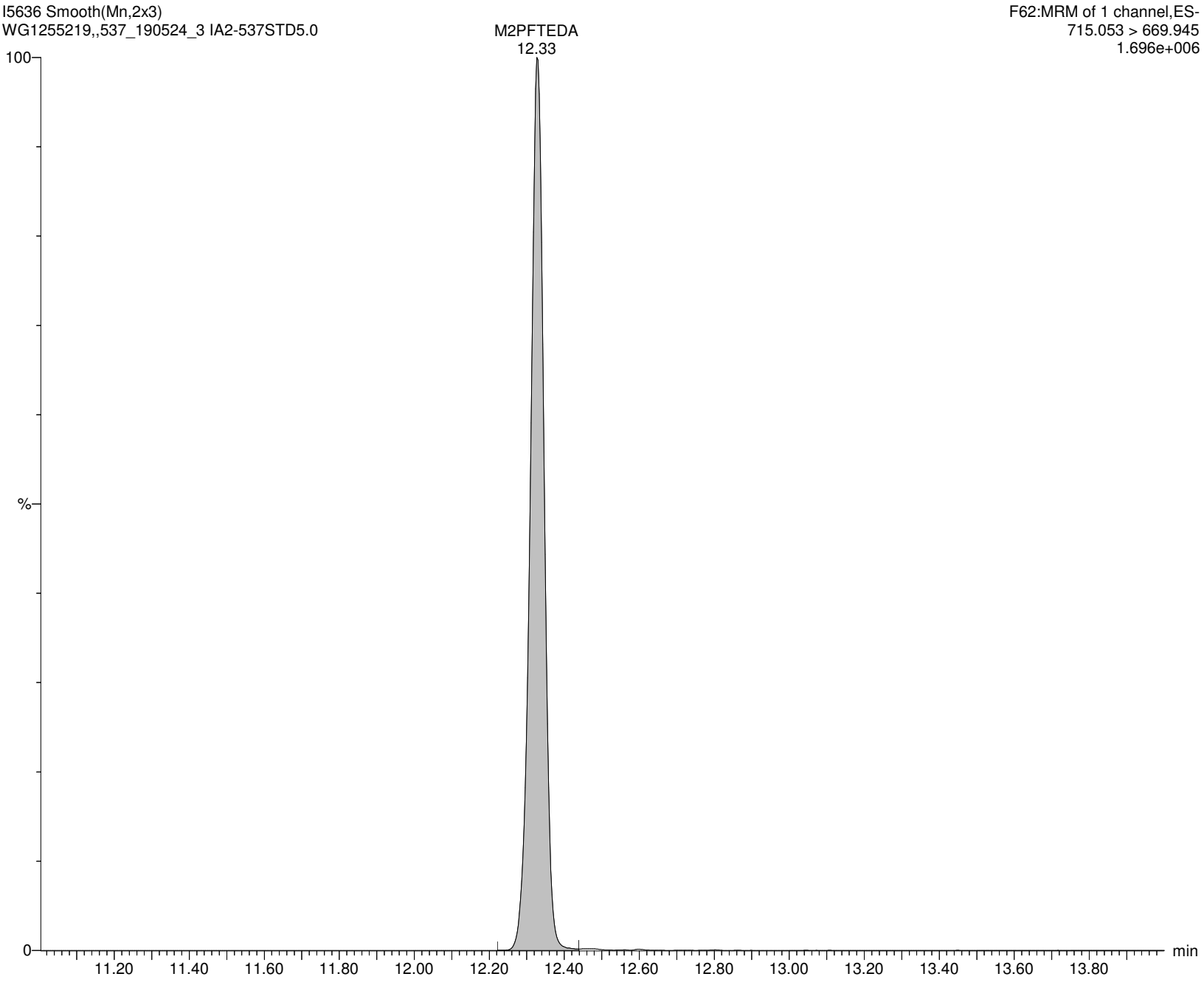


all concentration units in (ng/mL)

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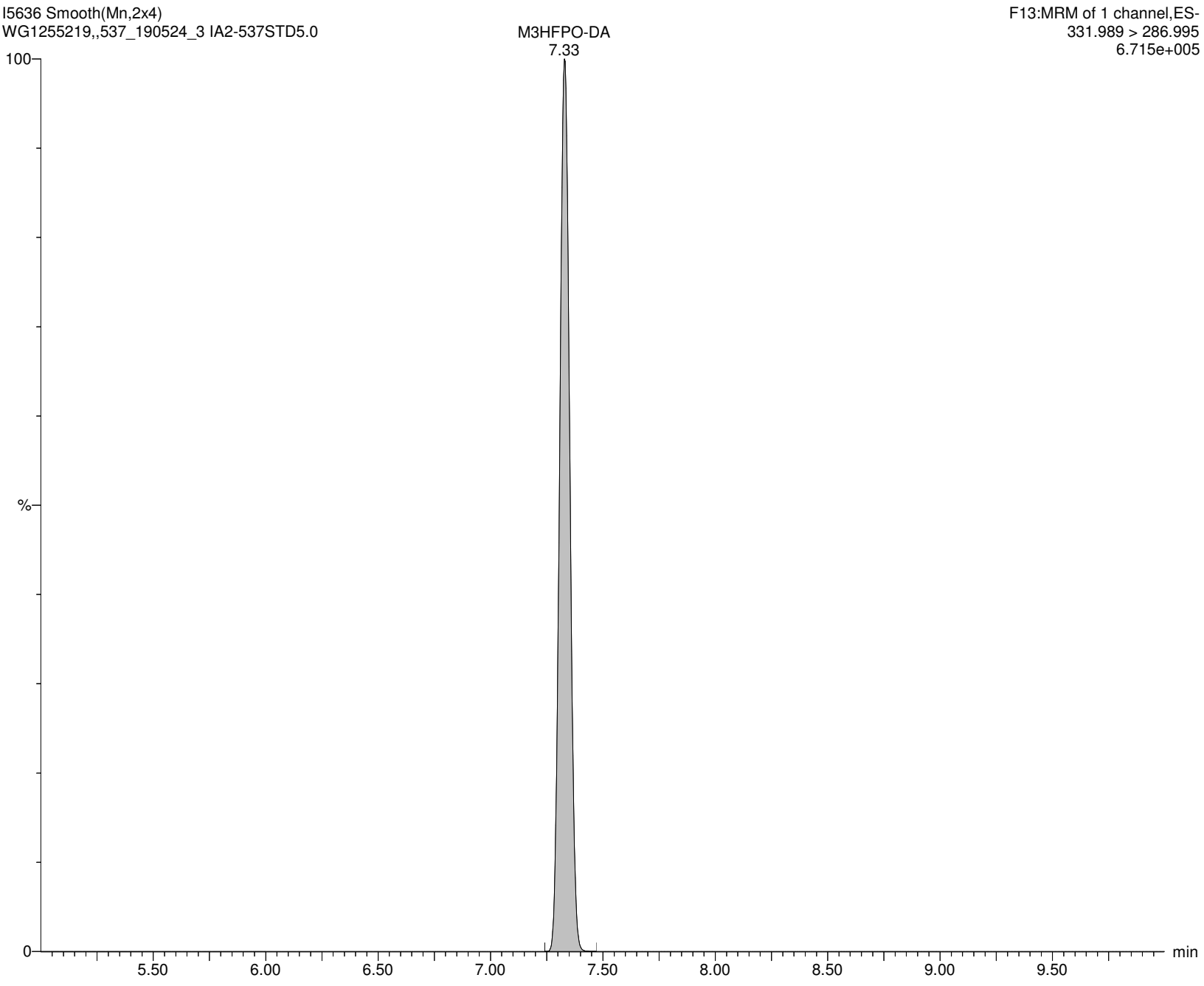


all concentration units in (ng/mL)

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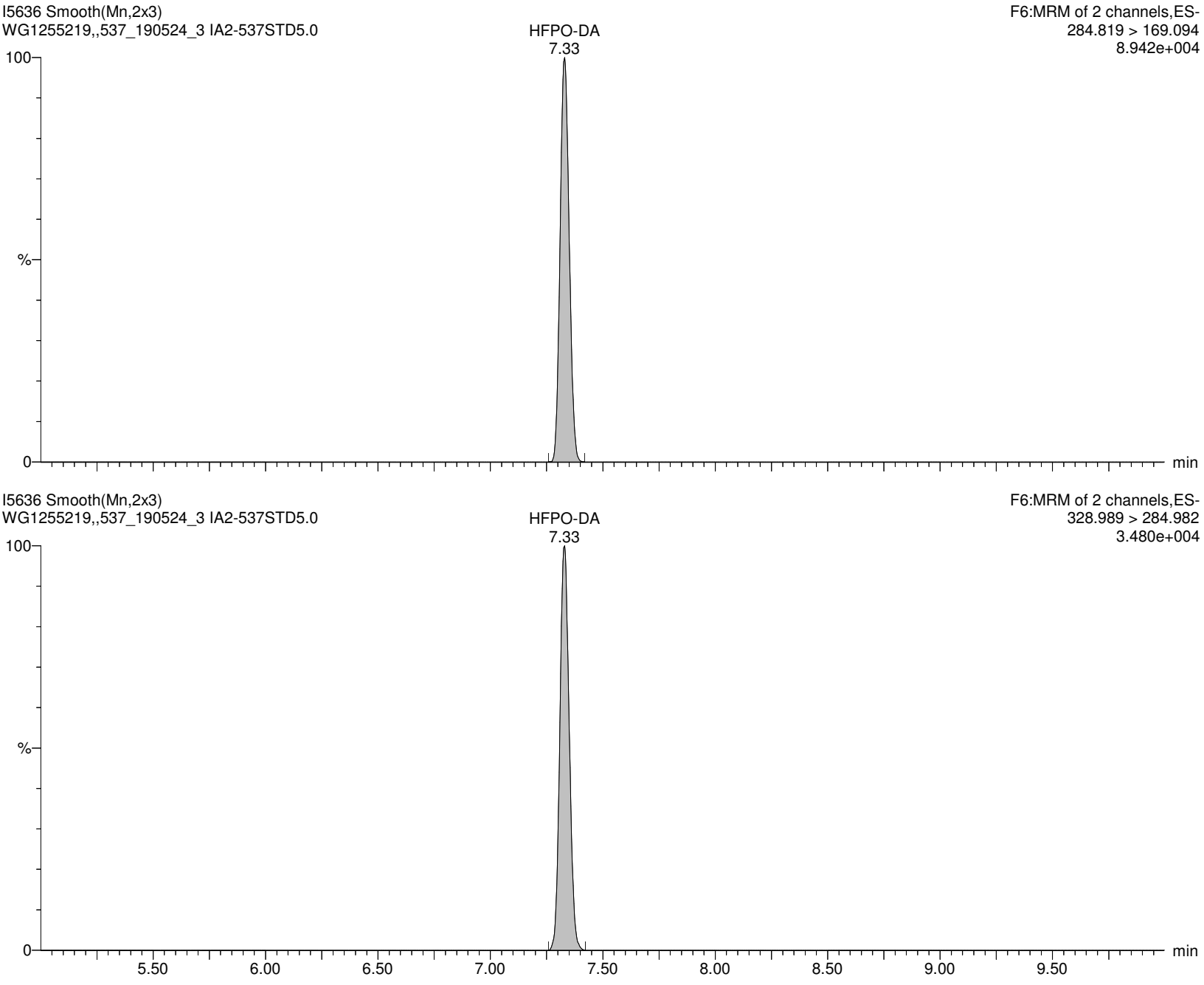


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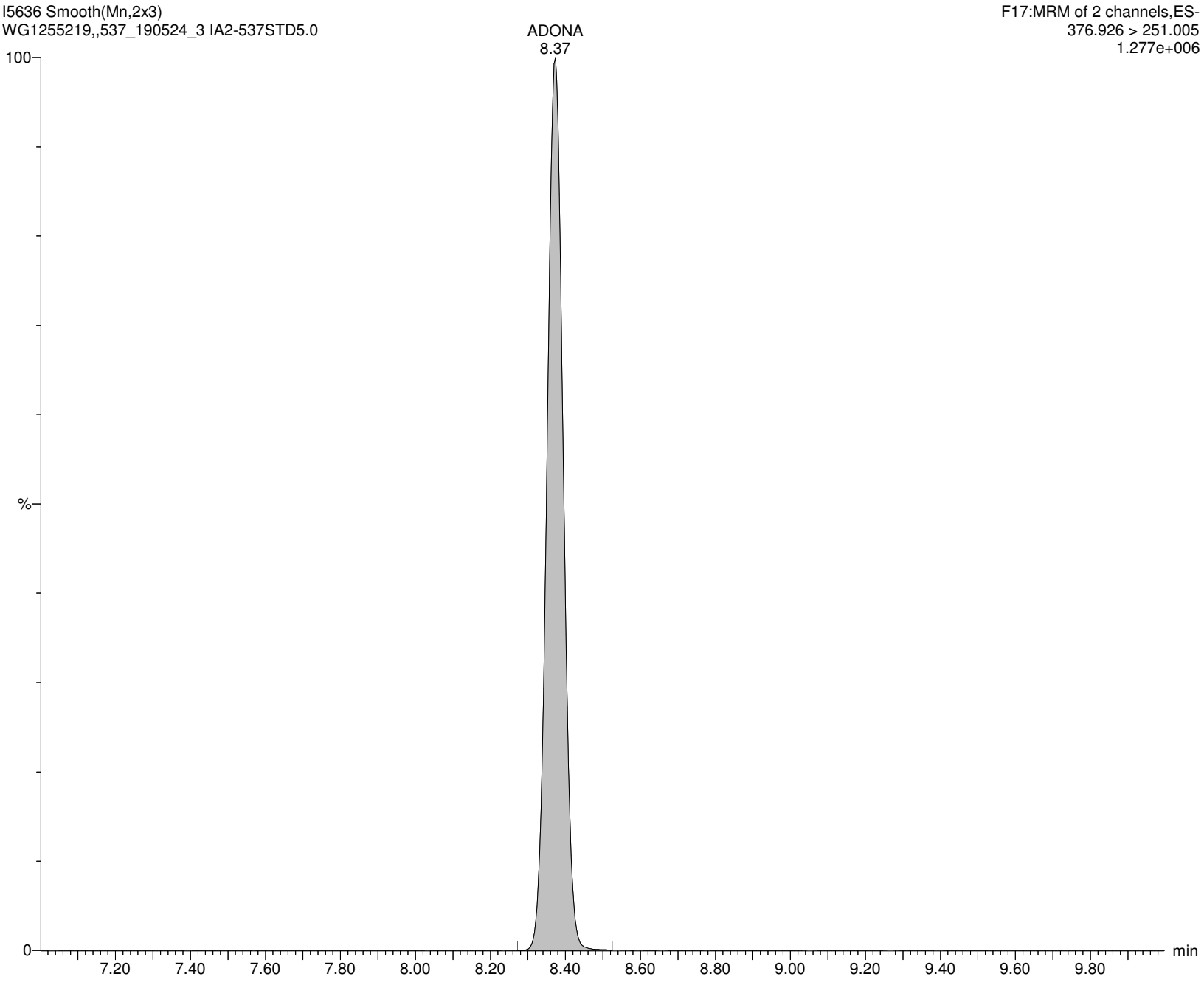


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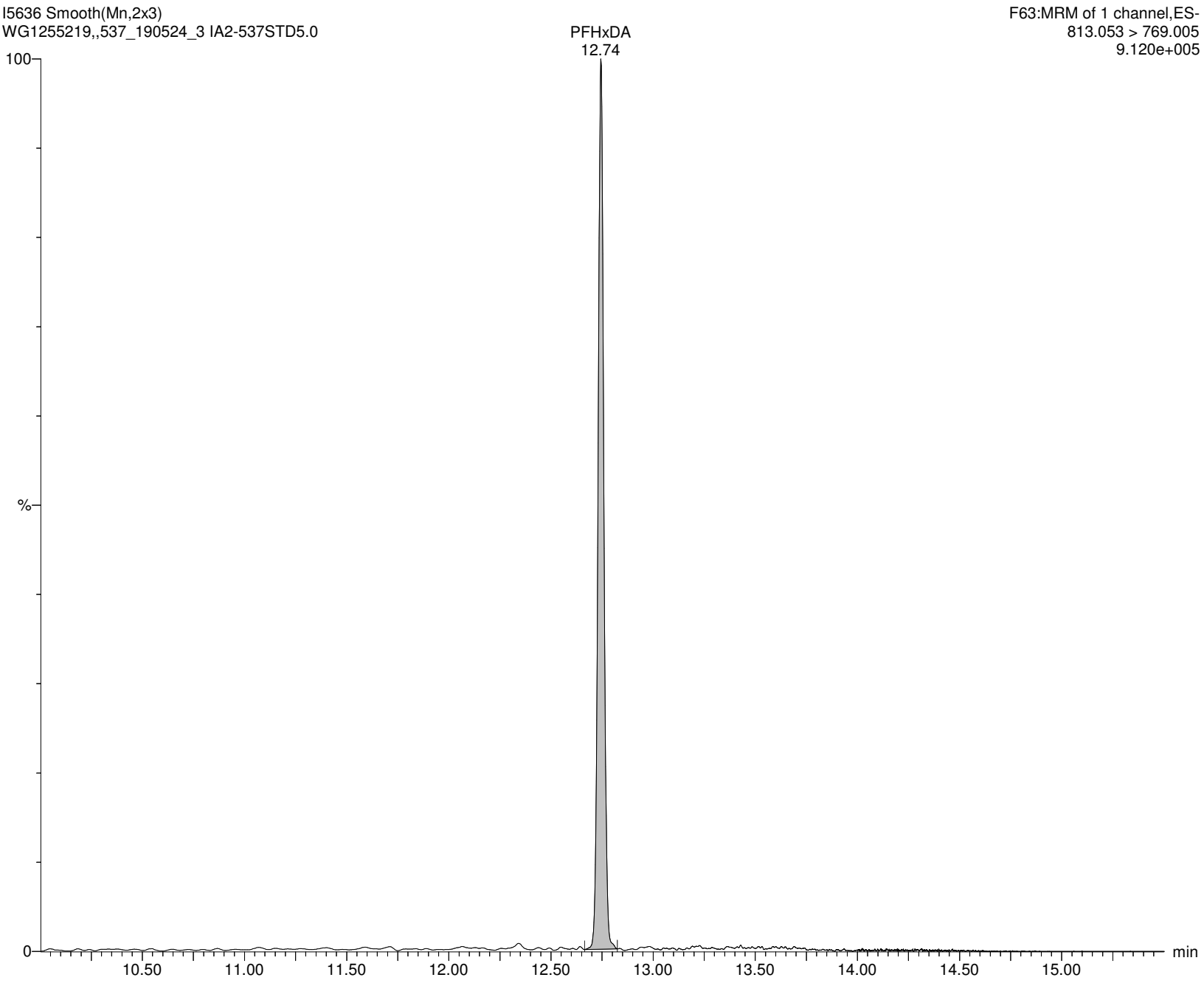


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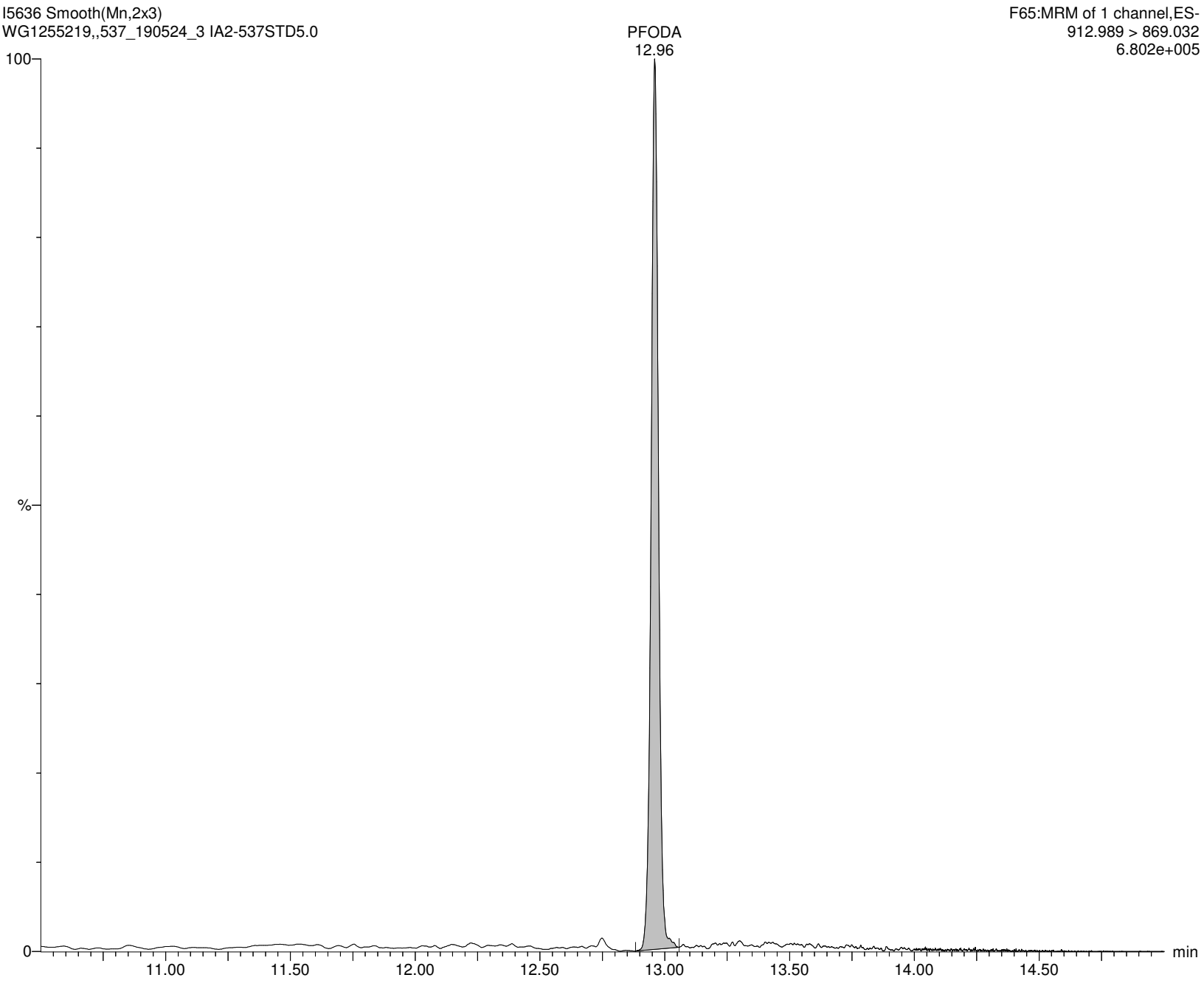


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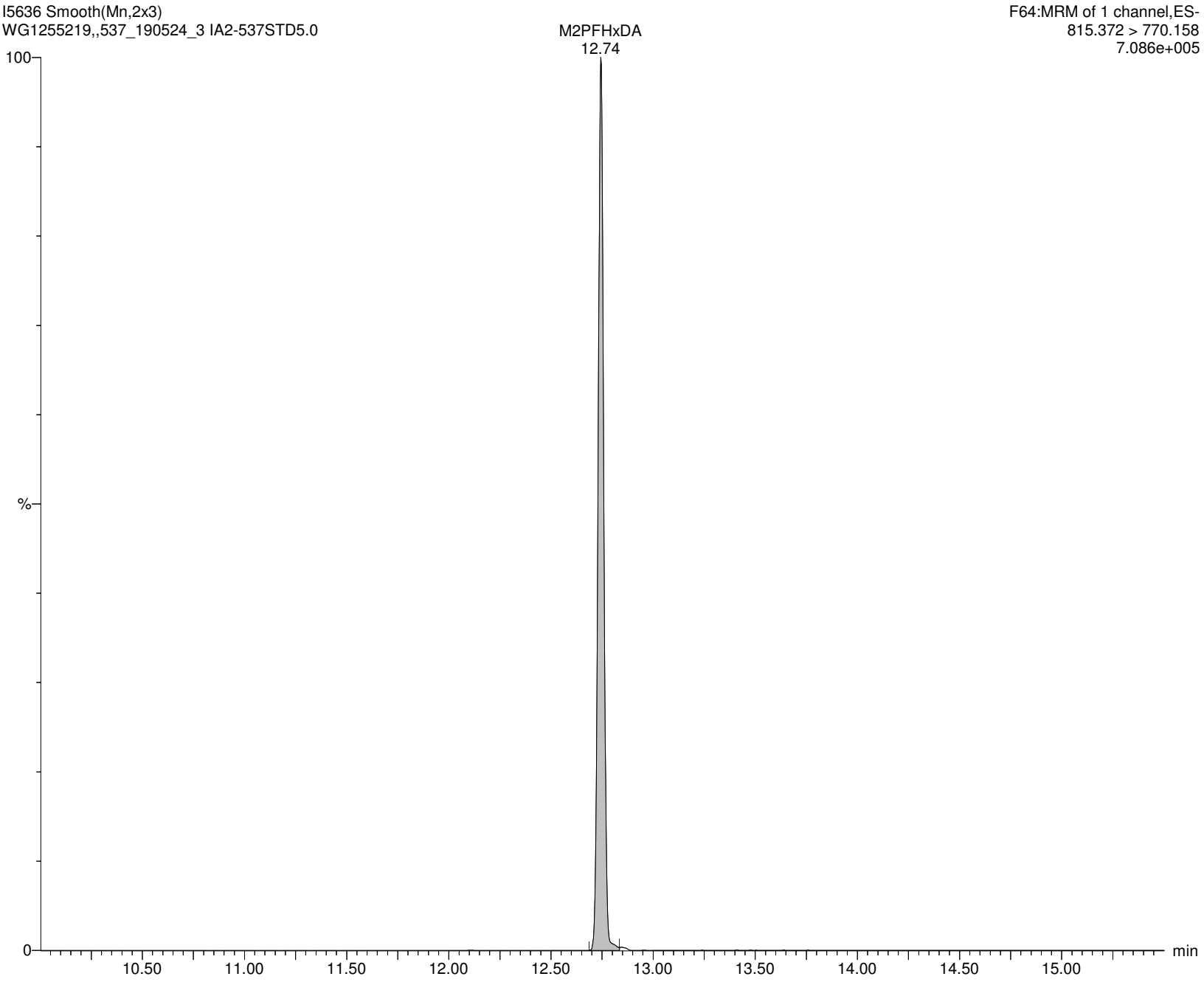


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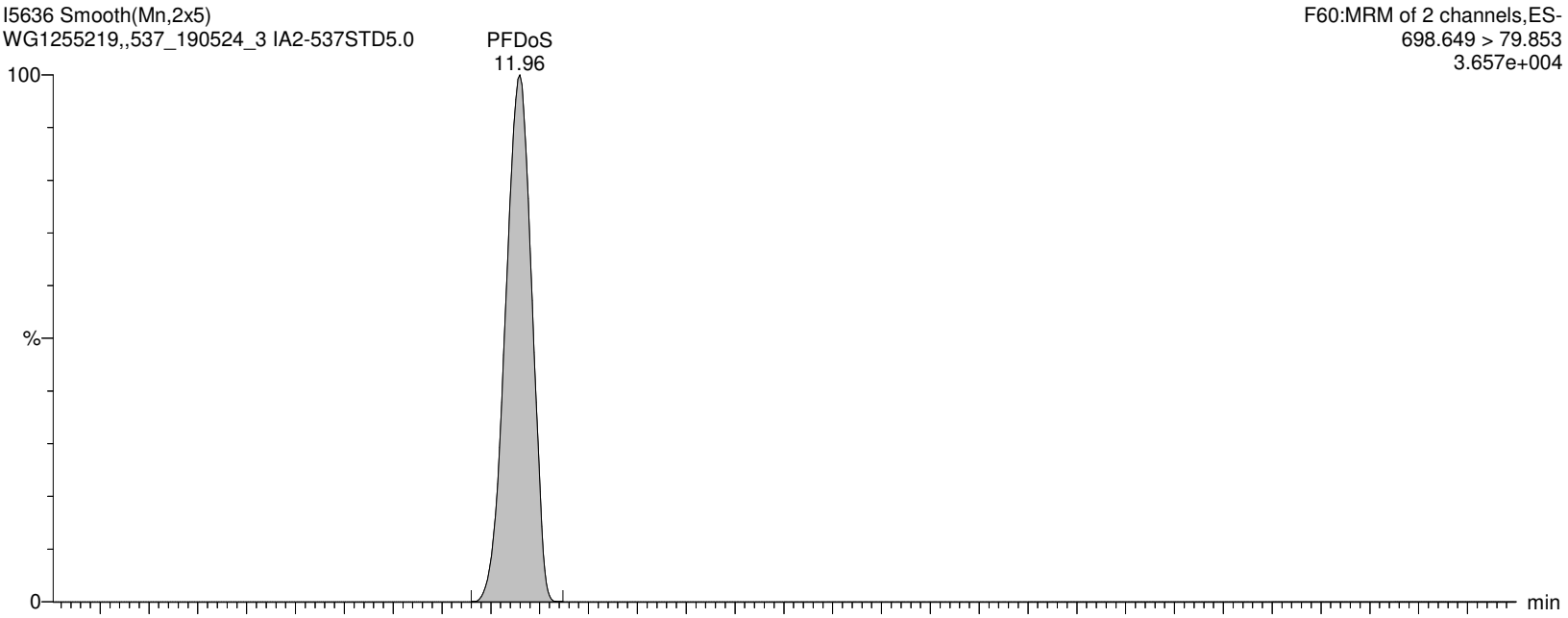


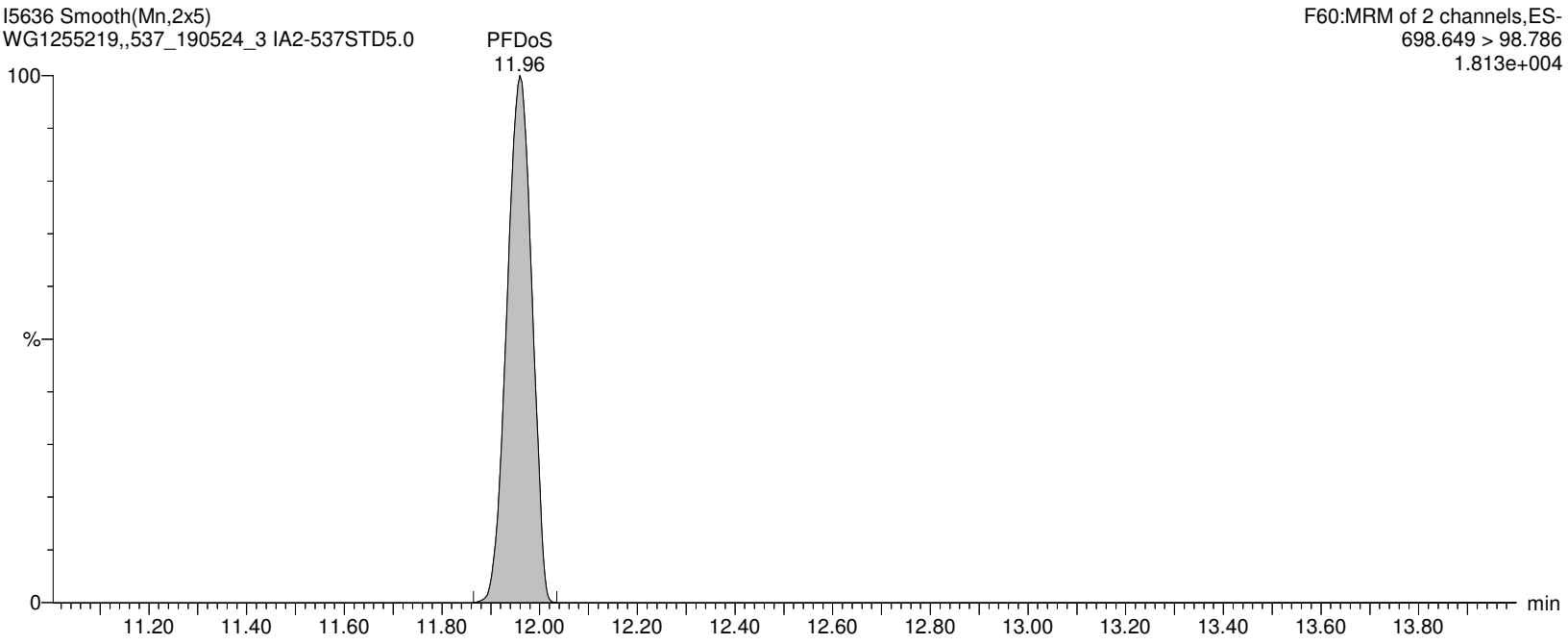
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PFDoS



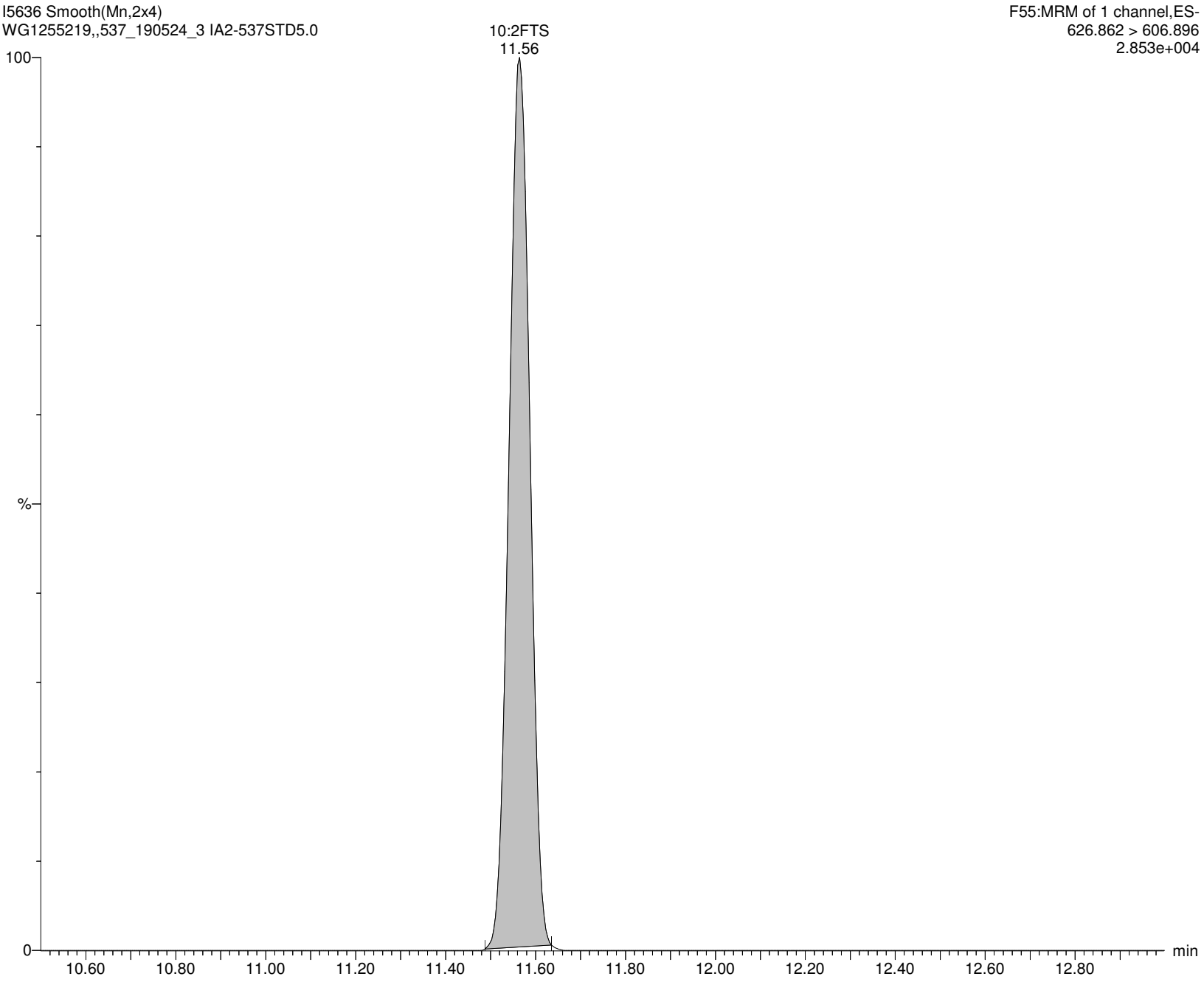


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:34 Eastern Daylight Time

Name: I5636
ID: IA2-537STD5.0
Date: 01-Jul-2019
Time: 18:30:29
Description: WG1255219,,537_190524_3
User: LCMS02:JW
Vial: 1:A,4
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\181009_TUNE.IPR
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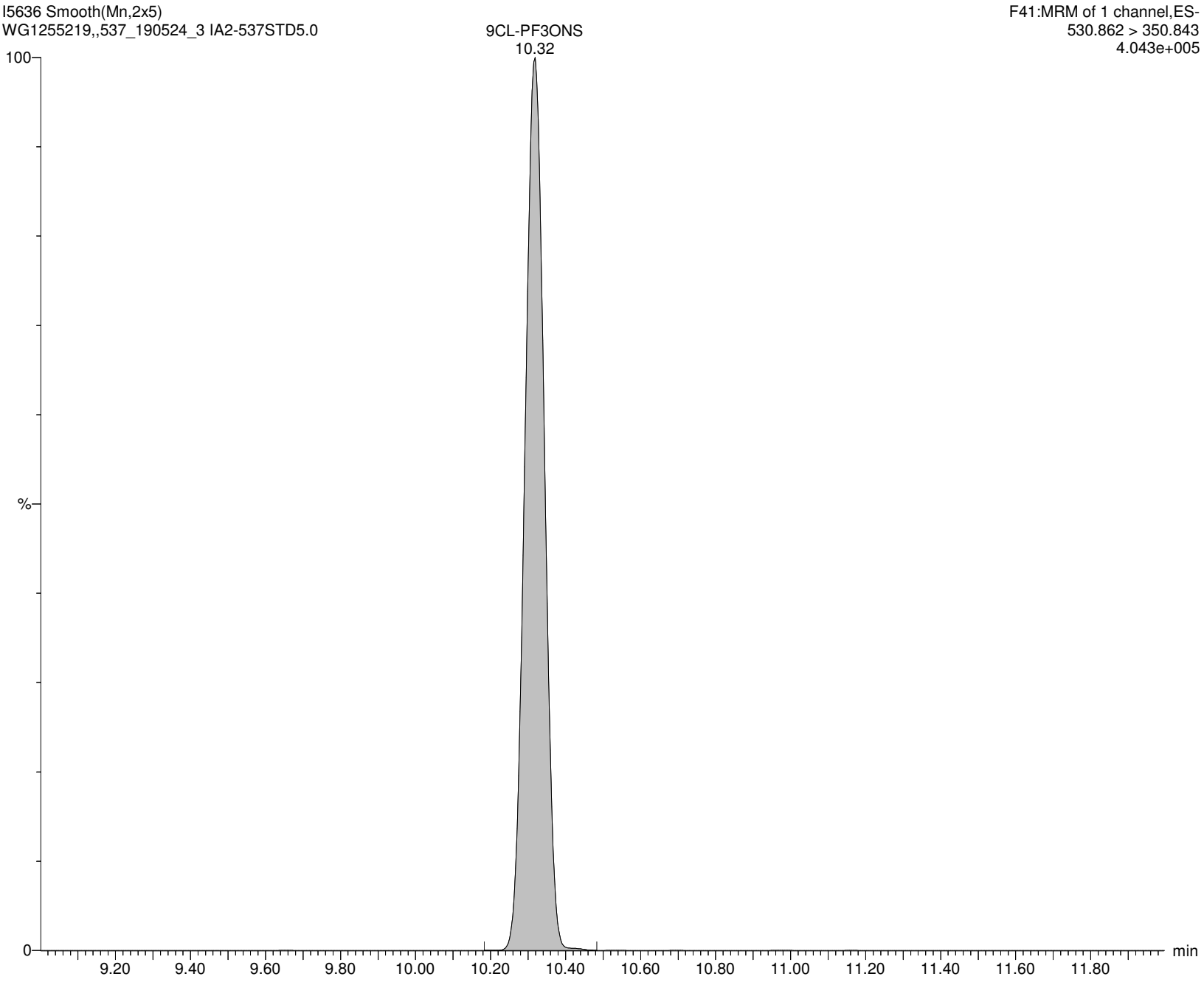


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
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Vial: 1:A,4
Instrument: XEVO-TQSmicro#QEB0050
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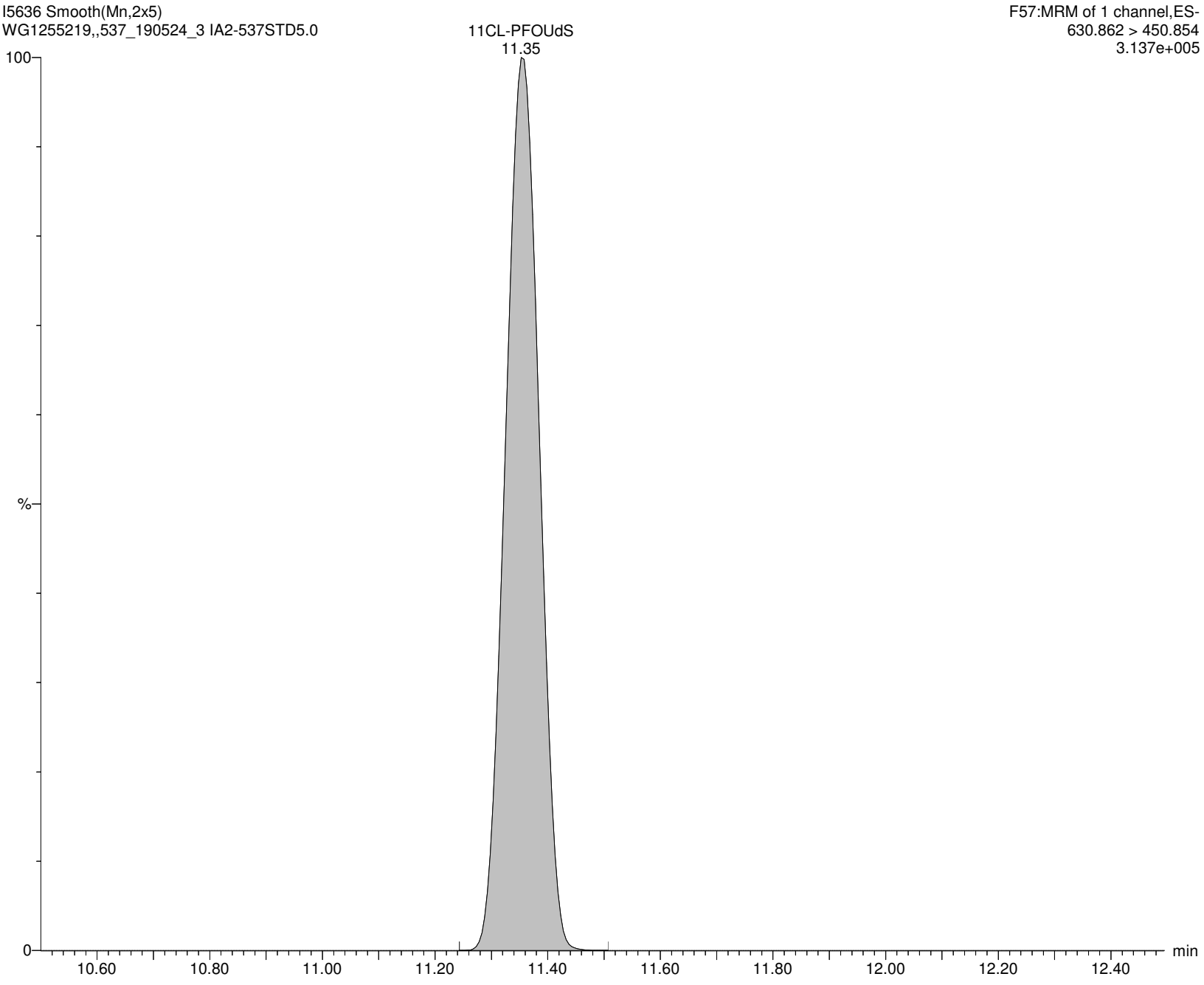


all concentration units in (ng/mL)

Alpha Analytical Inc.
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11CL-PFOUdS

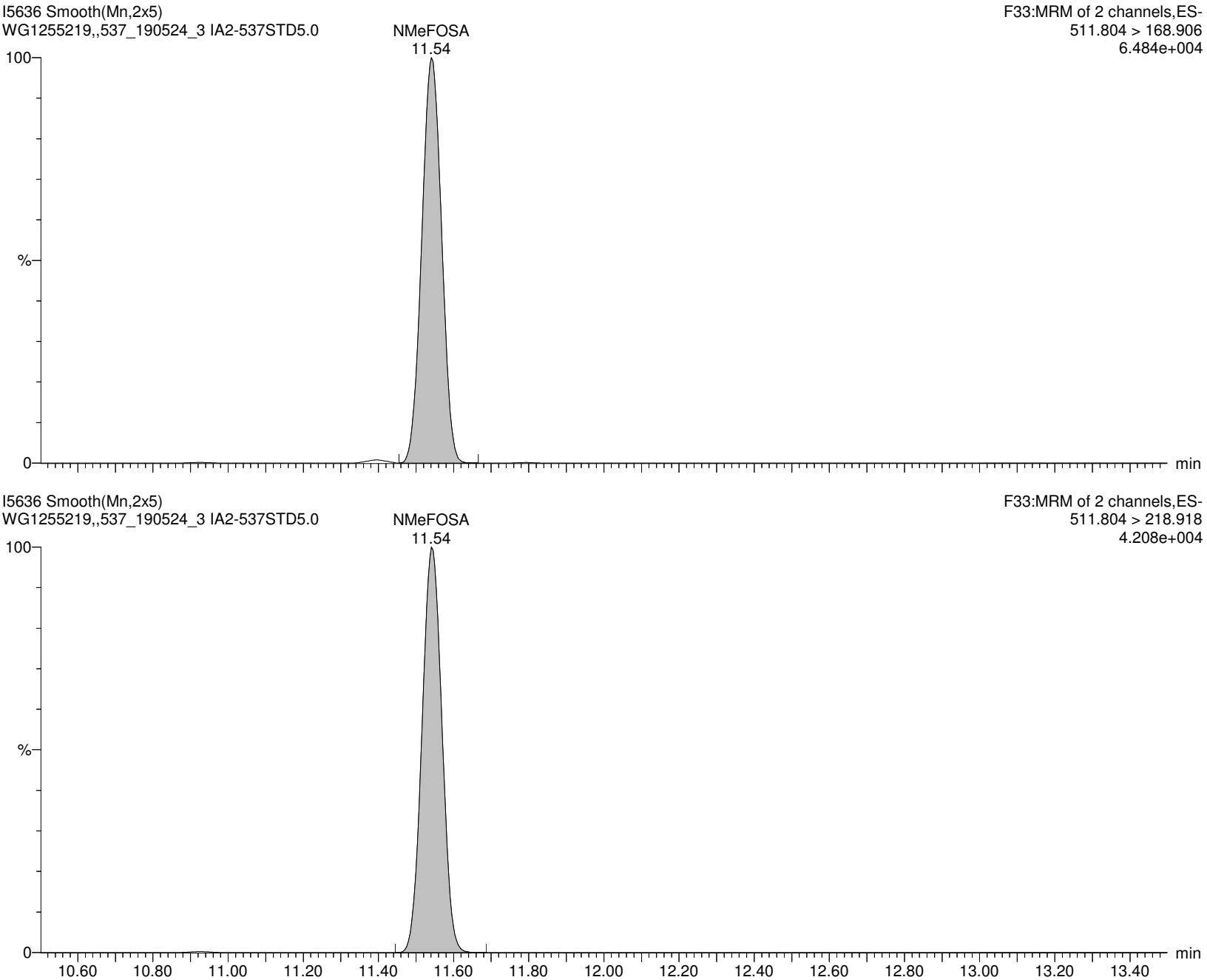


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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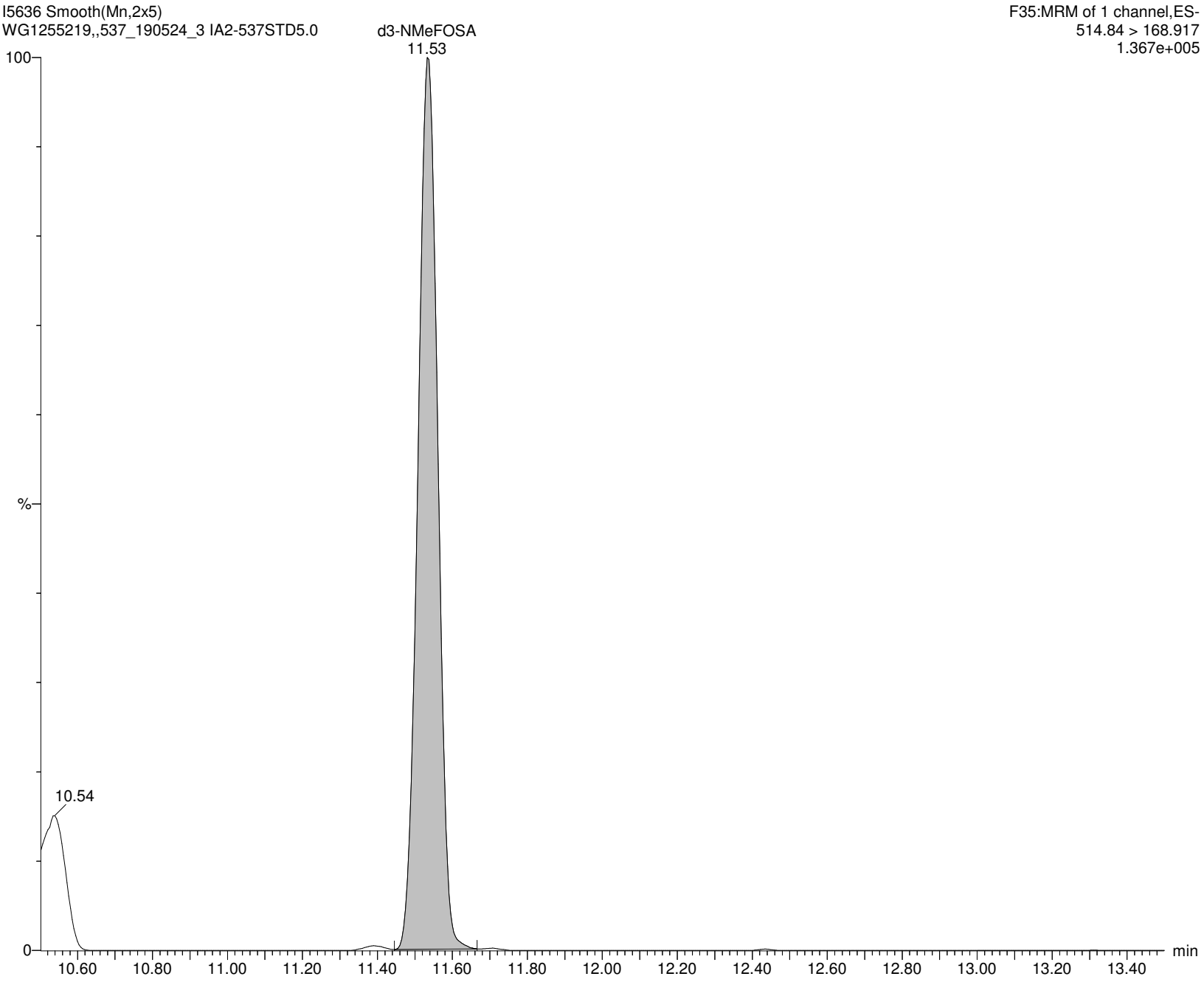


all concentration units in (ng/mL)

Alpha Analytical Inc.
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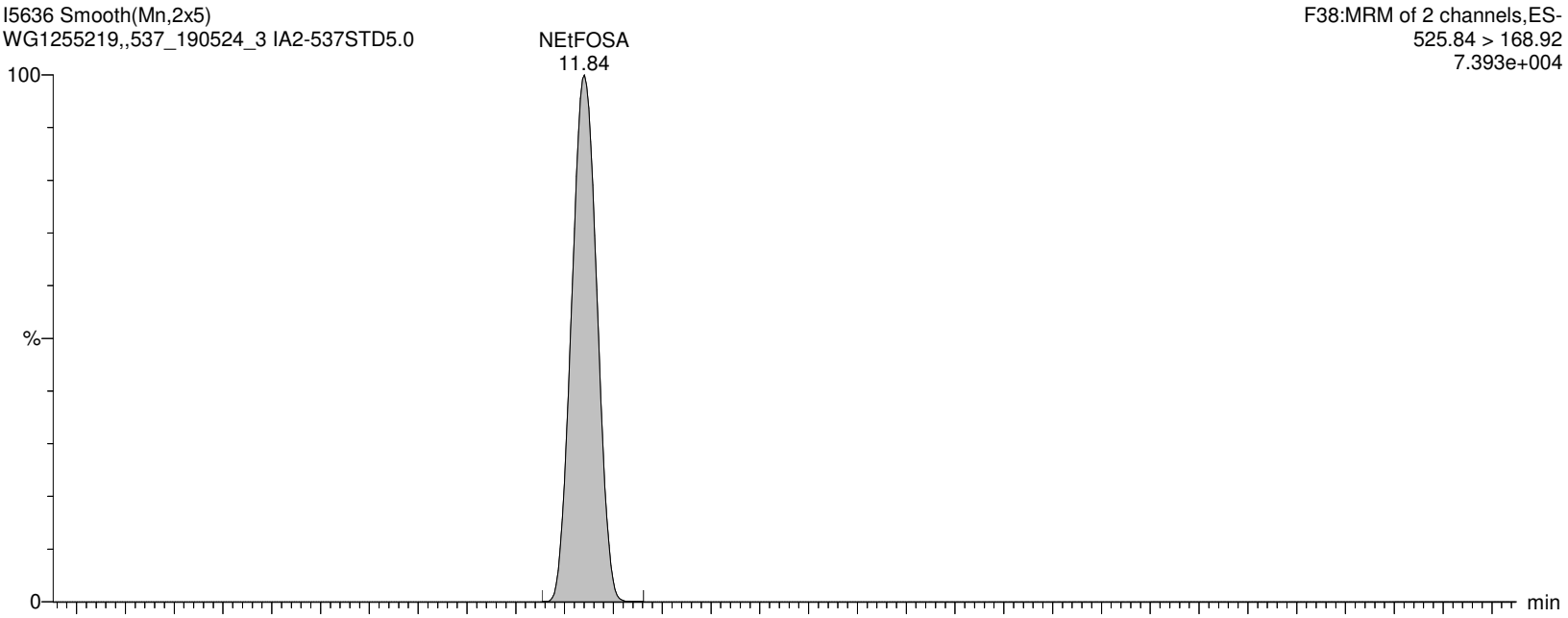


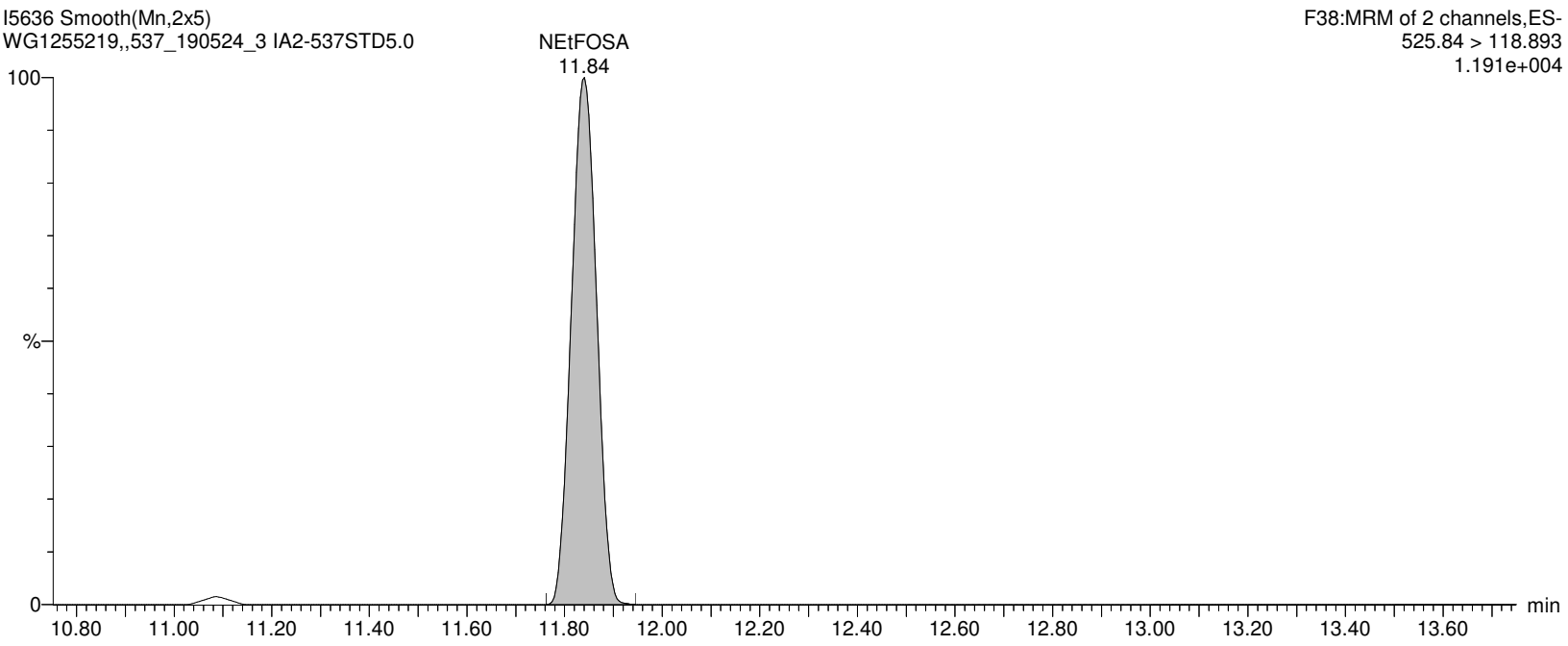
all concentration units in (ng/mL)

Alpha Analytical Inc.
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NEtFOSA



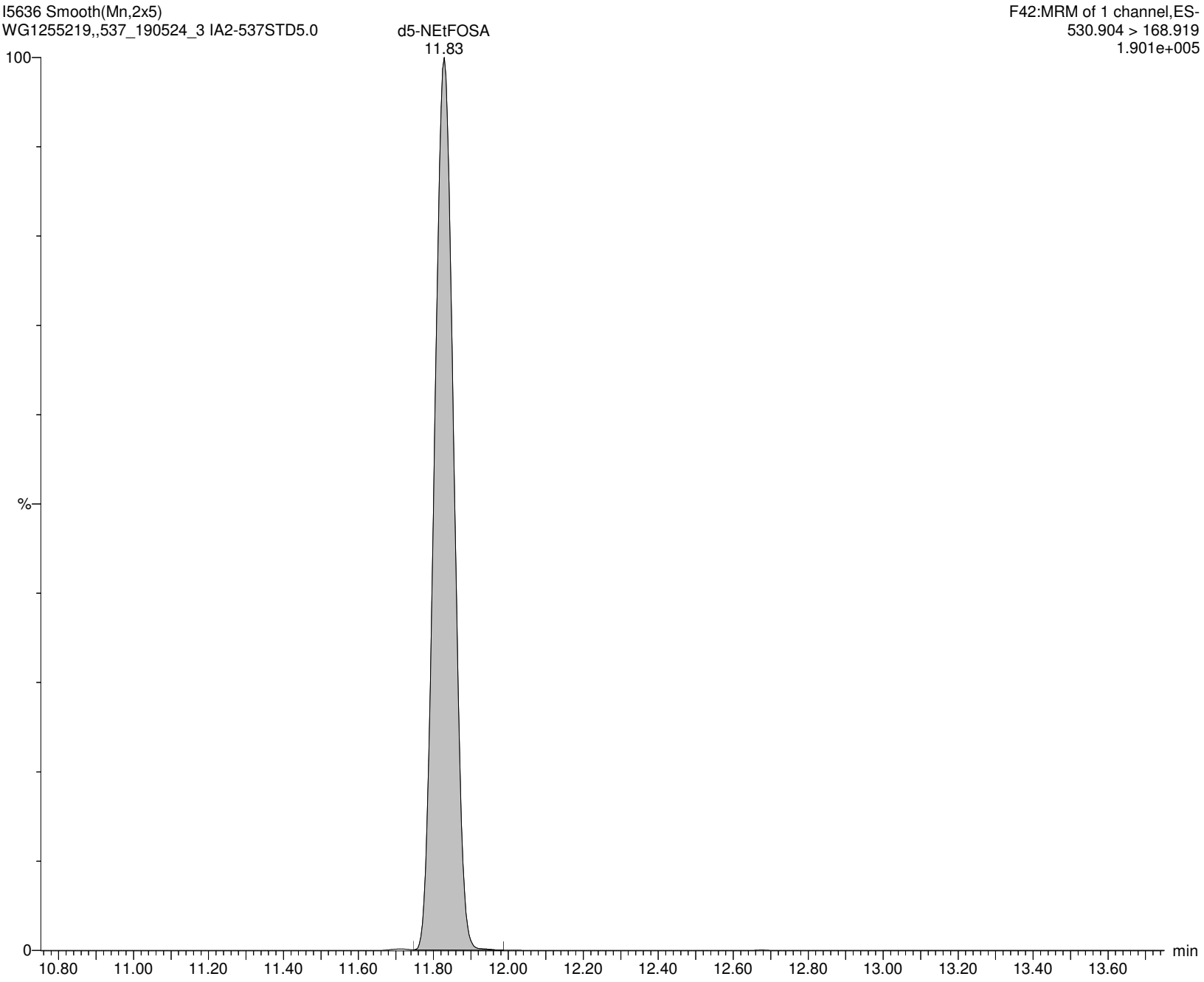


all concentration units in (ng/mL)

Alpha Analytical Inc.
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d5-NEtFOSA

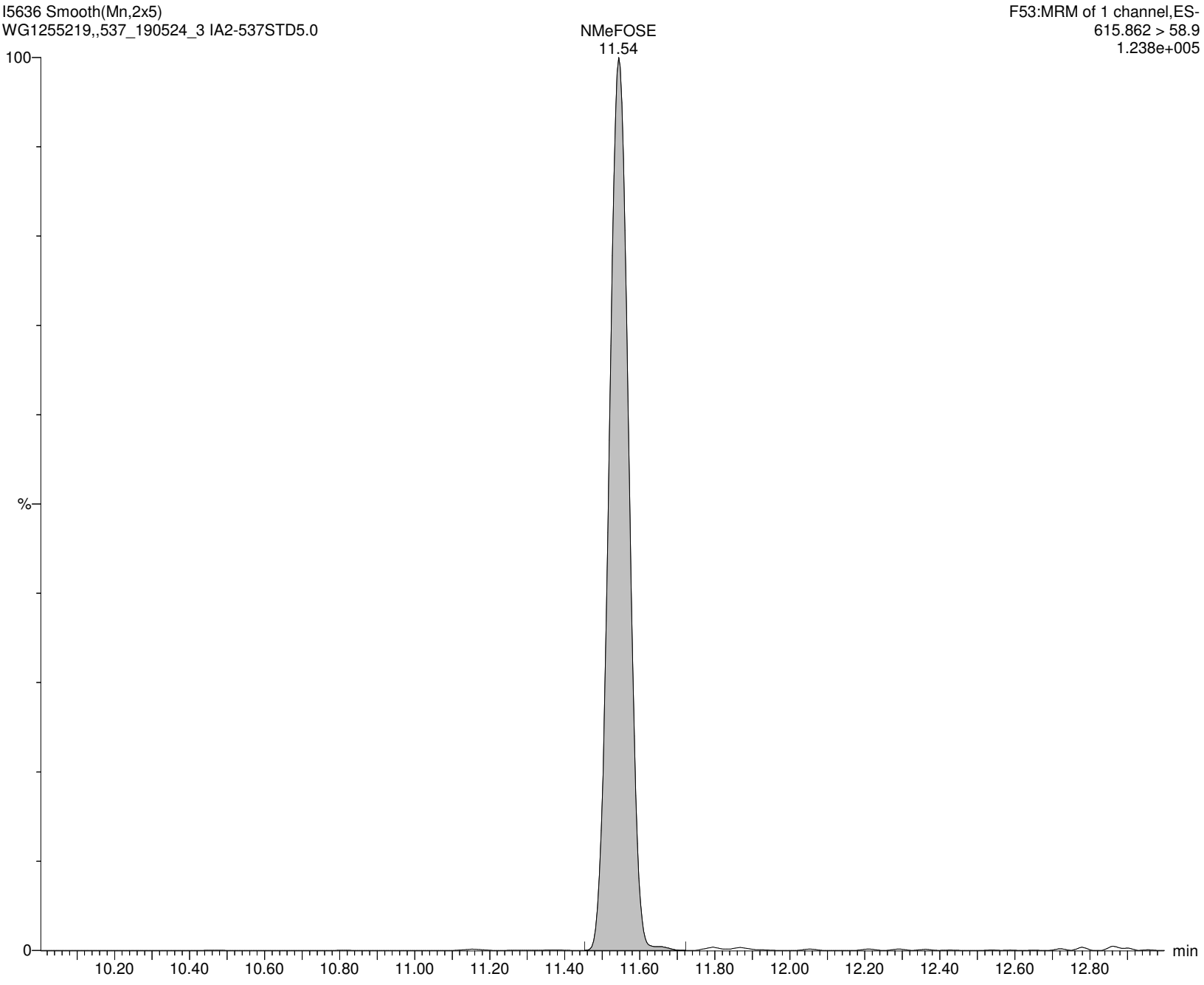


all concentration units in (ng/mL)

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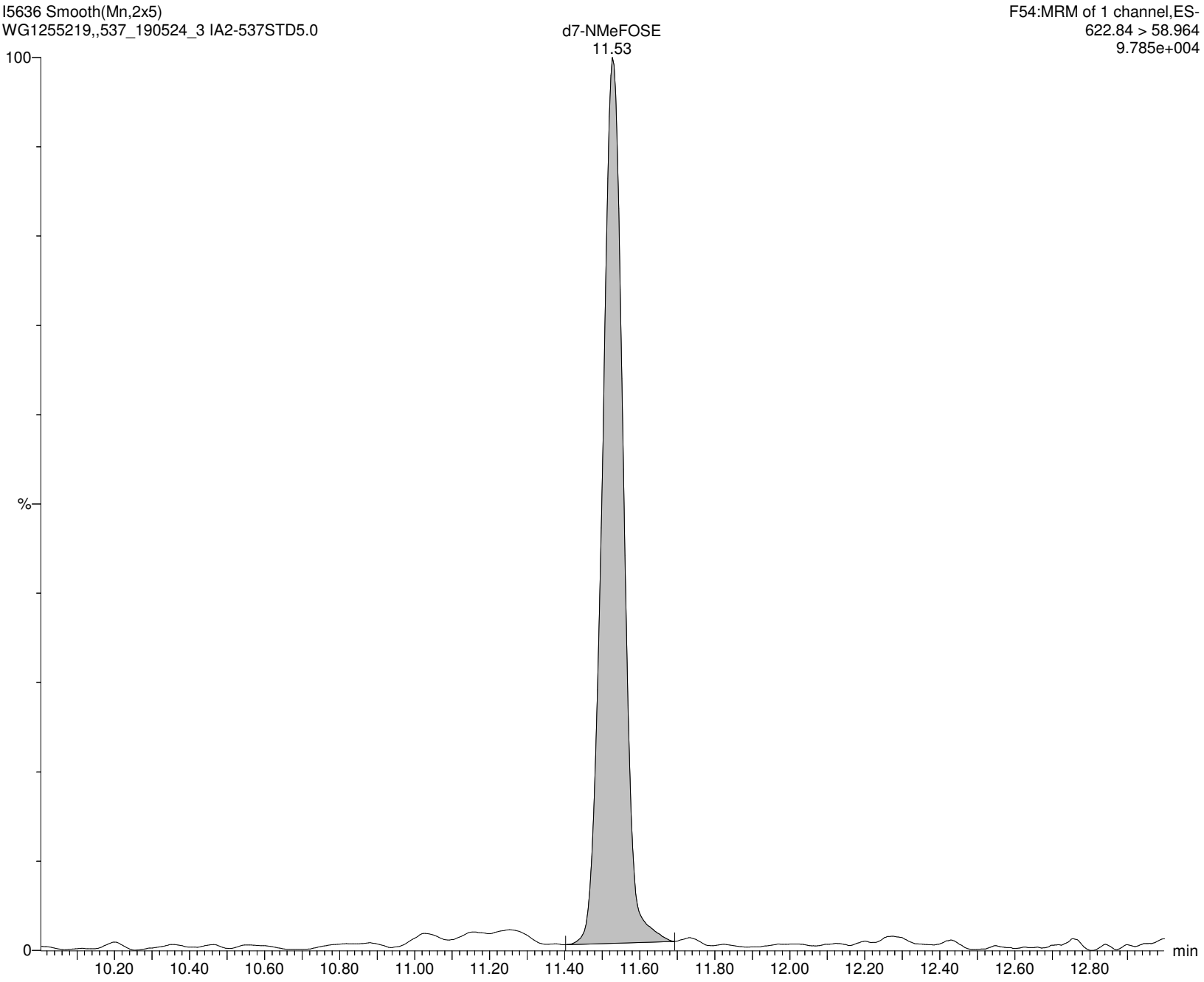


all concentration units in (ng/mL)

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Vial: 1:A,4
Instrument: XEVO-TQSmicro#QEB0050
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Tune Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\181009_TUNE.IPR
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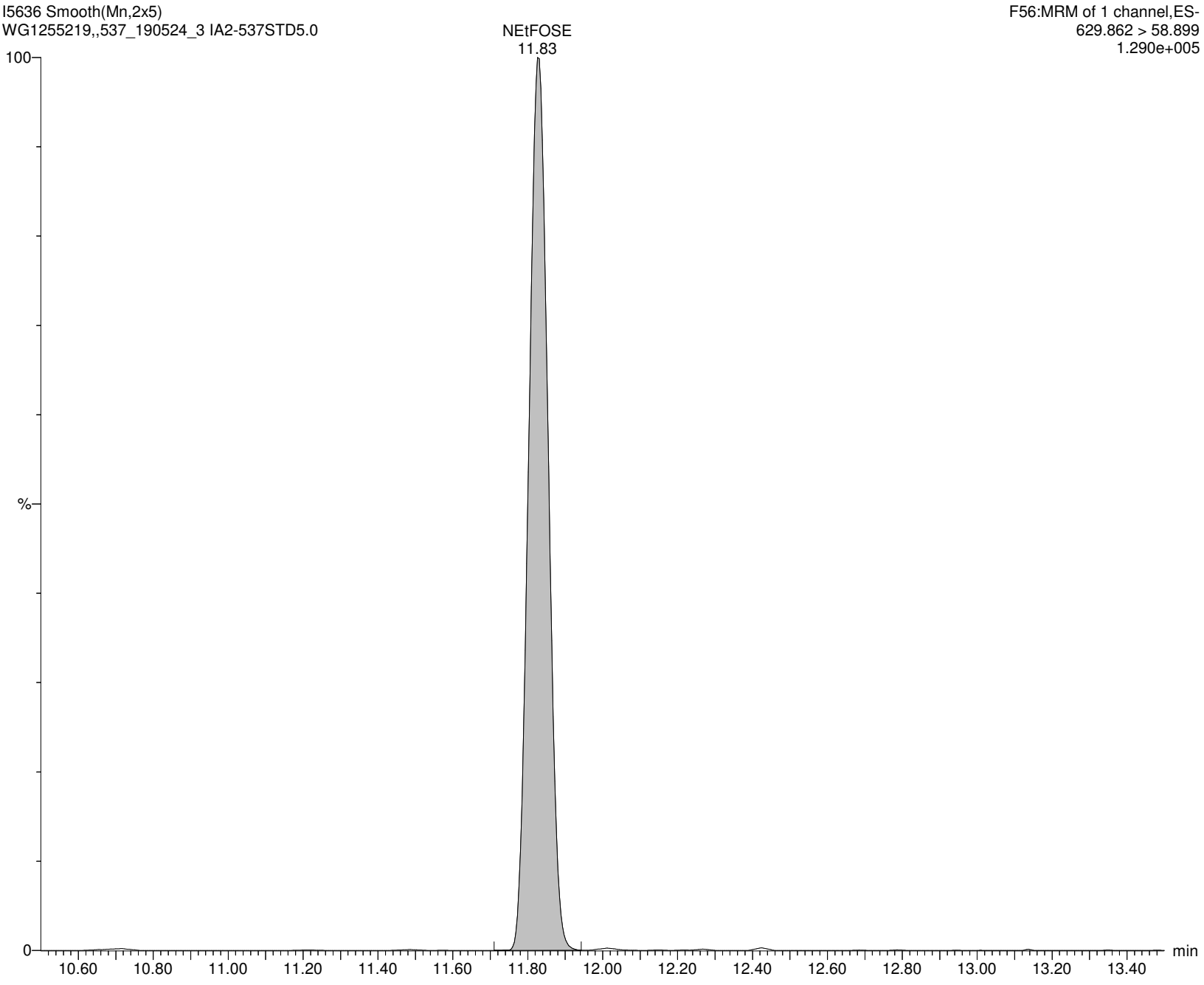


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Date: 01-Jul-2019
Time: 18:30:29
Description: WG1255219,,537_190524_3
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Vial: 1:A,4
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NEtFOSE

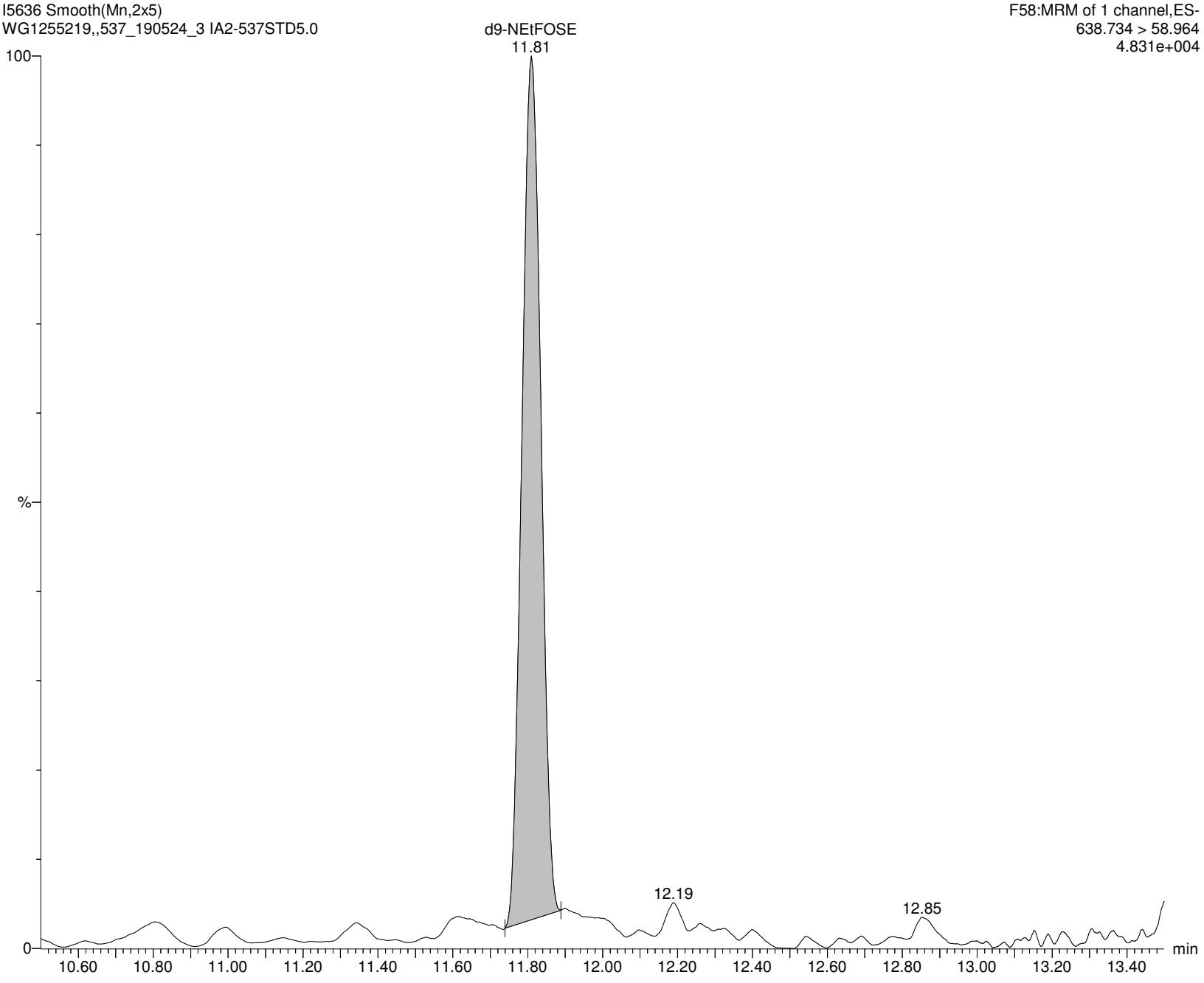


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Time: 18:30:29
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Vial: 1:A,4
Instrument: XEVO-TQSmicro#QEB0050
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MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

d9-NEtFOSE



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:36 Eastern Daylight Time

Method: C:\MassLynx\Data\2019\190701_537ISO.PRO\MethDB\537ISO_Q_190702_DOD.mdb 17 Jun 2019 11:52:40
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ID: IA2-537STD10.0
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Time: 18:47:03
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Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
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MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.10	212.926 > 169.111	36633		9.406		na	94.1
2	M3PFBA	INT STD	2.10	215.926 > 172.122	38614		9.984		na	99.8
3	MPFBA	INT STD	2.10	216.926 > 172.137	42802		9.885		na	98.8
4	PFPeA	2706-90-3	4.98	262.926 > 219.002	60121		9.458		na	94.6
5	M5PFPEA	INT STD	4.98	267.989 > 223.081	61947		10.107		na	101.1
6	PFBS	375-73-5	5.64	298.926 > 79.923	11864		7.994	1.86	YES	90.3
7	M3PFBS	INT STD	5.64	301.989 > 80.254	9974		9.506		na	95.1
8	4:2FTS	757124-72-4	6.82	326.926 > 306.957	5121		9.763	2.17	NO	104.4
9	M2-4:2FTS	INT STD	6.82	329.117 > 309.079	5180		8.239		na	82.4
10	PFHxA	307-24-4	6.90	312.989 > 269.028	74820		9.622	17.99	NO	96.2
11	M5PFHxA	INT STD	6.90	317.989 > 273.045	78659		9.986		na	99.9
12	PFPeS	2706-91-4	7.22	348.926 > 80.251	9669		8.229	1.85	NO	87.5
13	PFHpA	375-85-9	8.19	362.926 > 319.014	95778		9.652	5.96	NO	96.5
14	M4PFHpA	INT STD	8.19	366.926 > 321.979	99529		9.917		na	99.2
15	br-PFHxS	355-46-4	8.12	398.926 > 80.295	1114	M5	1.758	2.17	NO	103.4
16	L-PFHxS	355-46-4	8.36	398.926 > 80.295	6010		6.731	1.19	NO	91.0
17	PFHxS	355-46-4		398.926 > 80.295	7124		8.489		na	
18	M3PFHxS	INT STD	8.36	401.926 > 80.317	6592		10.138		na	101.4
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1	9.16	412.989 > 368.9	89546		9.609	9.89	NO	96.1
21	M2PFOA	INT STD	9.15	415.032 > 369.968	93436		10.248		na	102.5
22	PFOA	335-67-1		412.989 > 368.9	89546		9.609		na	
23	M8PFOA	INT STD	9.15	420.989 > 375.979	93890		10.114		na	101.1
24	6:2FTS	27619-97-2	9.12	426.989 > 406.921	3276		8.560	8.37	NO	90.1
25	M2-6:2FTS	INT STD	9.11	428.989 > 408.917	4854		8.567		na	85.7
26	PFHpS	375-92-8	9.25	448.926 > 80.257	5773		9.468	0.94	NO	99.7
27	PFNA	375-95-1	9.91	462.989 > 418.931	75070		9.479	4.20	NO	94.8
28	M9PFNA	INT STD	9.91	472.053 > 426.947	87294		10.154		na	101.5
29	br-PFOS	1763-23-1	9.77	498.989 > 80.294	1994	M5	2.118	5.49	NO	105.9
30	L-PFOS	1763-23-1	9.96	498.989 > 80.294	6072		6.931	1.49	NO	95.0
31	PFOS	1763-23-1		498.989 > 80.294	8067		9.049		na	
32	M4PFOS	INT STD	9.96	503.032 > 80.306	7883		10.599		na	106.0
33	M8PFOS	INT STD	9.96	507.053 > 80.294	8500		10.012		na	100.1
34	PFDA	335-76-2	10.54	513.053 > 468.906	74596		9.672	6.18	NO	96.7
35	M2PFDA	INT STD	10.54	515.053 > 469.934	75605		10.570		na	105.7
36	M6PFDA	INT STD	10.54	519.053 > 473.931	85298		10.090		na	100.9
37	8:2FTS	39108-34-4	10.53	526.926 > 506.818	3172		10.166		na	105.9
38	M2-8:2FTS	INT STD	10.53	529.053 > 508.945	2969		9.549		na	95.5
39	PFNS	68259-12-1	10.57	548.989 > 80.249	8397		9.947	1.34	NO	103.6

all concentration units in (ng/mL)

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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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ID: IA2-537STD10.0
Name: I5637
Date: 01-Jul-2019
Time: 18:47:03
Description: WG1255219,,537_190524_4
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.91	573.096 > 418.987	8356		9.961		na	99.6
41	NMeFOSAA	2355-31-9	10.91	570.053 > 418.917	8293		9.770	2.62	NO	97.7
42	PFUnA	2058-94-8	11.08	562.989 > 518.903	77218		9.728	8.03	NO	97.3
43	M7-PFUDA	INT STD	11.08	570.053 > 524.923	77301		10.341		na	103.4
44	PFDS	335-77-3	11.09	598.926 > 80.314	6220		9.934	1.07	YES	102.9
45	FOSA	754-91-6	10.93	497.989 > 78.245	25773		9.090	139.88	NO	90.9
46	M8FOSA	INT STD	10.93	506.053 > 78.286	24689		9.813		na	98.1
47	d5-NEtFOSAA	INT STD	11.20	589.117 > 418.929	6800		8.946		na	89.5
48	NEtFOSAA	2991-50-6	11.21	583.989 > 418.927	6226		9.054	2.56	NO	90.5
49	PFDoA	307-55-1	11.55	612.989 > 568.967	75755		9.586	15.16	NO	95.9
50	MPFDOA	INT STD	11.55	614.989 > 569.92	82351		9.950		na	99.5
51	PFTrDA	72629-94-8	11.97	663.053 > 618.969	85698		11.548	10.83	NO	115.5
52	PFTA	376-06-7	12.33	713.053 > 668.976	57993		10.007	9.14	NO	100.1
53	M2PFTEDA	INT STD	12.33	715.053 > 669.945	66637		9.529		na	95.3
54	M3HFPO-DA	INT STD	7.33	331.989 > 286.995	36471		150.992		na	75.5
55	HFPO-DA	13252-13-6	7.33	284.819 > 169.094	9167		190.776	2.55	YES	95.4
56	ADONA	958445-44-8	8.38	376.926 > 251.005	130323		9.661		na	102.1
57	PFHxDA		12.74	813.053 > 769.005	60168		11.405		na	114.1
58	PFODA		12.96	912.989 > 869.032	46901		11.326		na	113.3
59	M2PFHxDA		12.74	815.372 > 770.158	20781		9.754		na	97.5
60	PFDoS		11.96	698.649 > 79.853	4782		11.586	2.07	YES	115.9
61	10:2FTS		11.56	626.862 > 606.896	3167		9.641		na	100.0
62	9CL-PF3ONS		10.31	530.862 > 350.843	52572		9.141		na	98.1
63	11CL-PFOUdS		11.35	630.862 > 450.854	46785		9.235		na	98.0
64	NMeFOSA		11.54	511.804 > 168.906	8715		11.391	1.60	NO	113.9
65	d3-NMeFOSA		11.53	514.84 > 168.917	8183		9.389		na	93.9
66	NEtFOSA		11.84	525.84 > 168.92	9073		9.687	6.00	NO	96.9
67	d5-NEtFOSA		11.83	530.904 > 168.919	10588		9.381		na	93.8
68	NMeFOSE		11.54	615.862 > 58.9	15536		10.225		na	102.2
69	d7-NMeFOSE		11.53	622.84 > 58.964	6006		9.854		na	98.5
70	NEtFOSE		11.83	629.862 > 58.899	15763		10.780		na	107.8
71	d9-NEtFOSE		11.81	638.734 > 58.964	2813		9.357		na	93.6

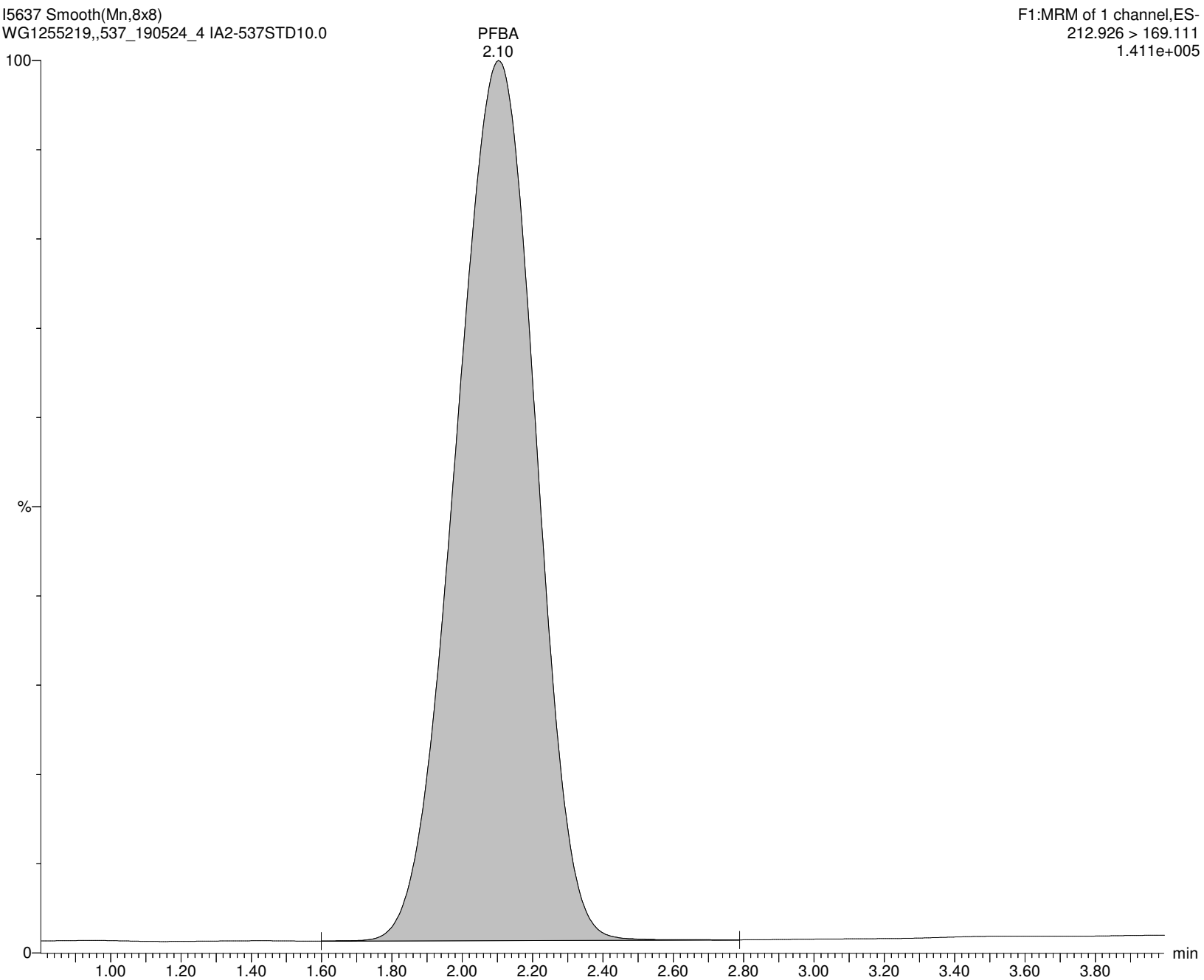
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:36 Eastern Daylight Time

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Date: 01-Jul-2019
Time: 18:47:03
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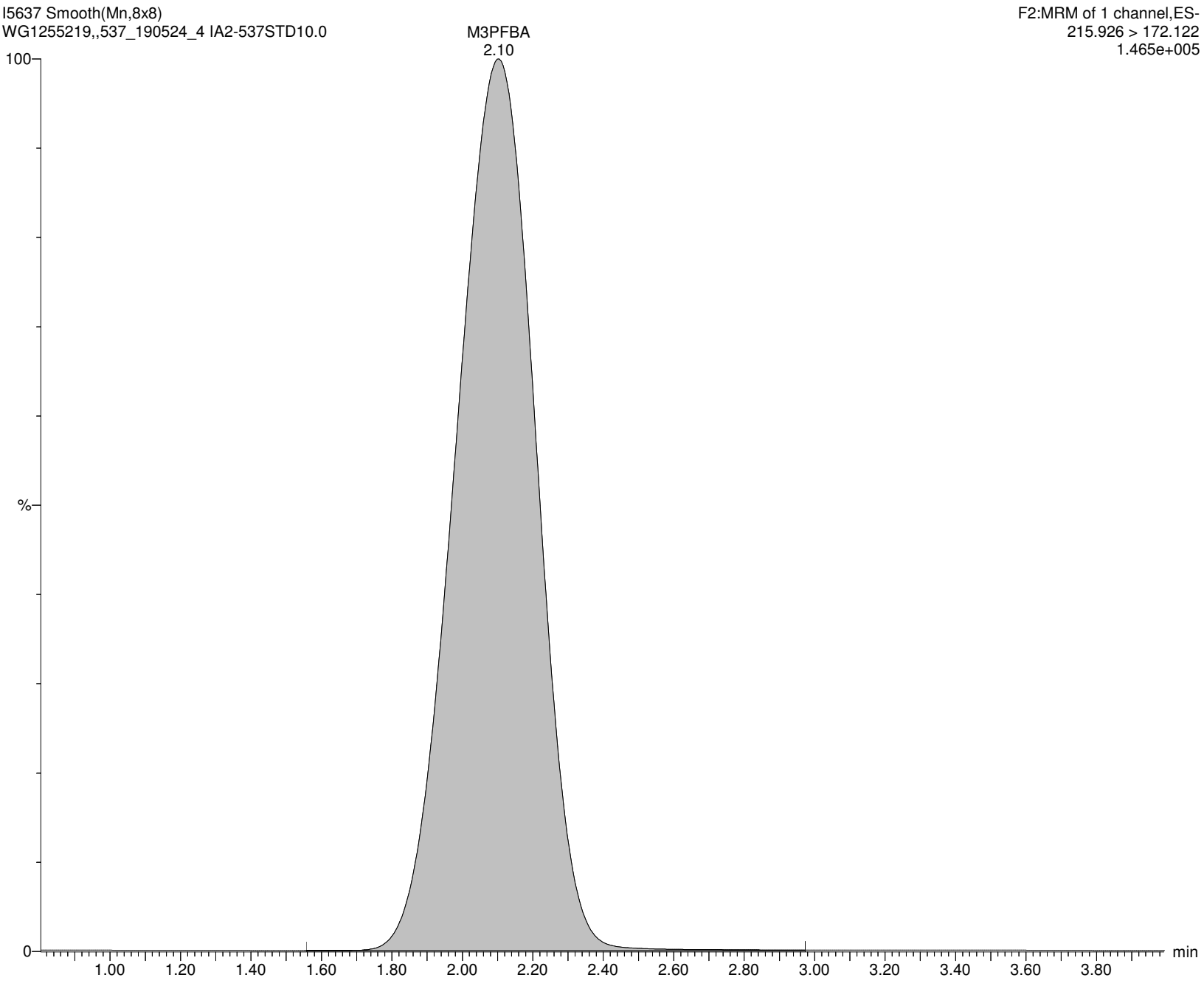


all concentration units in (ng/mL)

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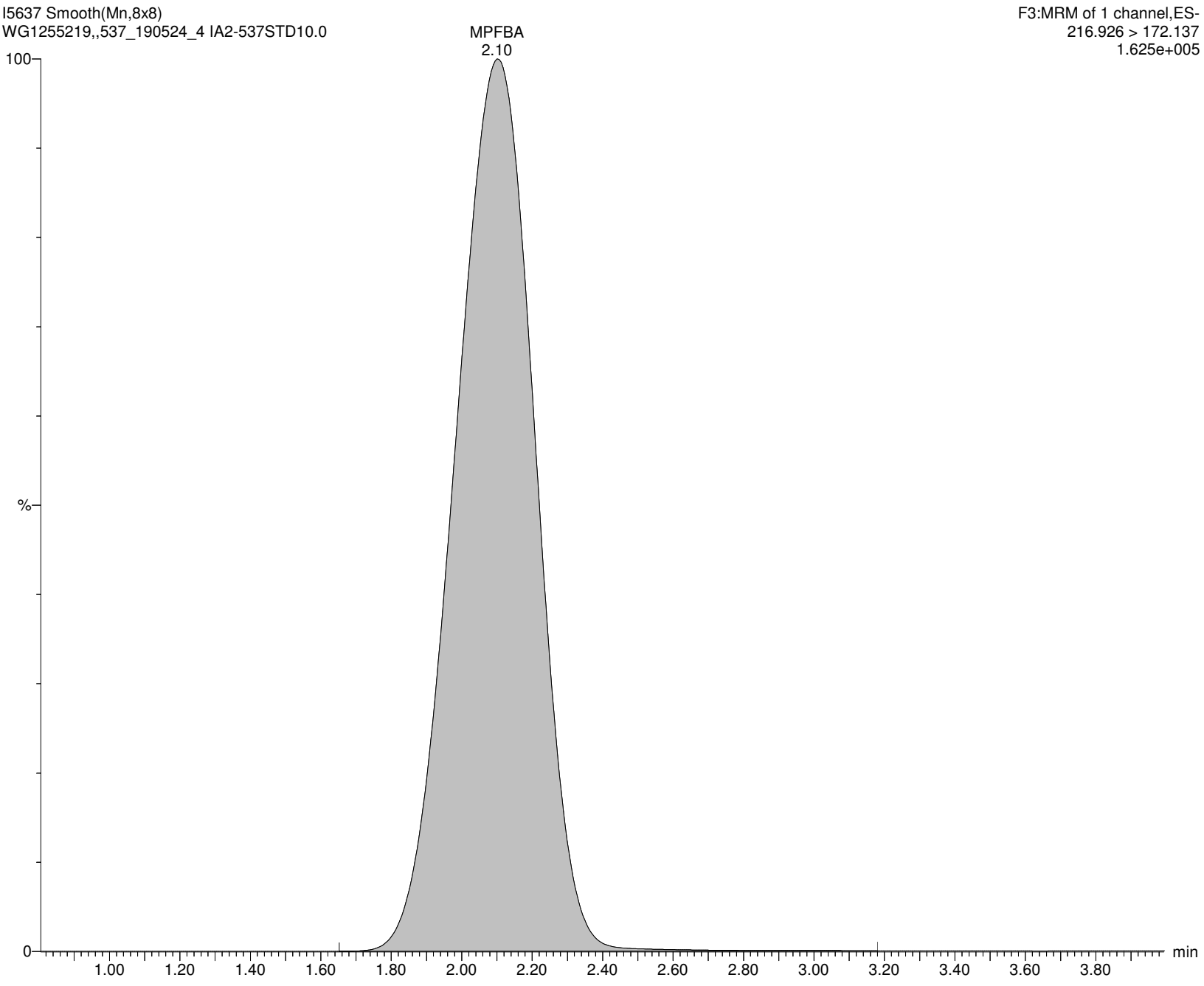


all concentration units in (ng/mL)

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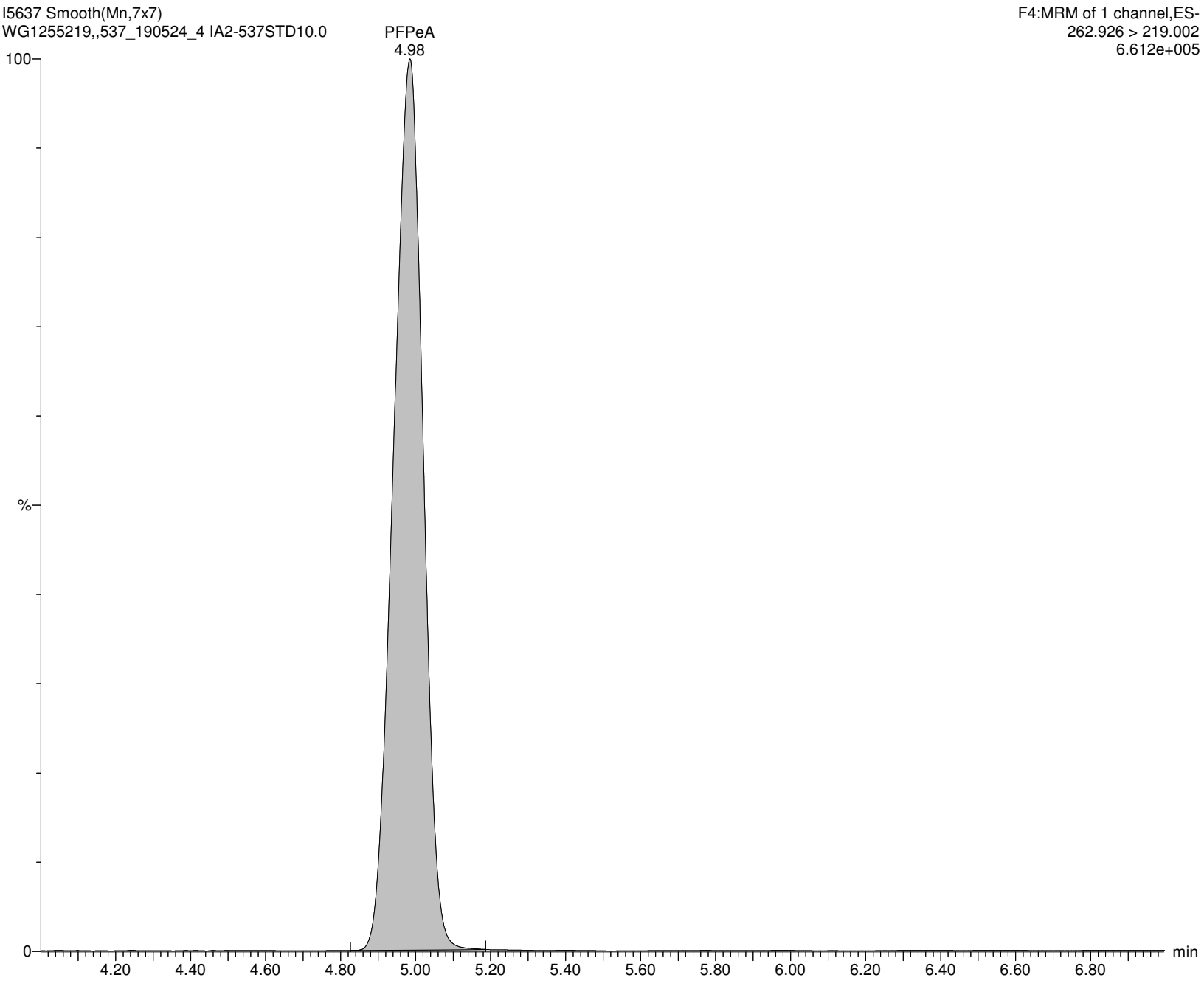


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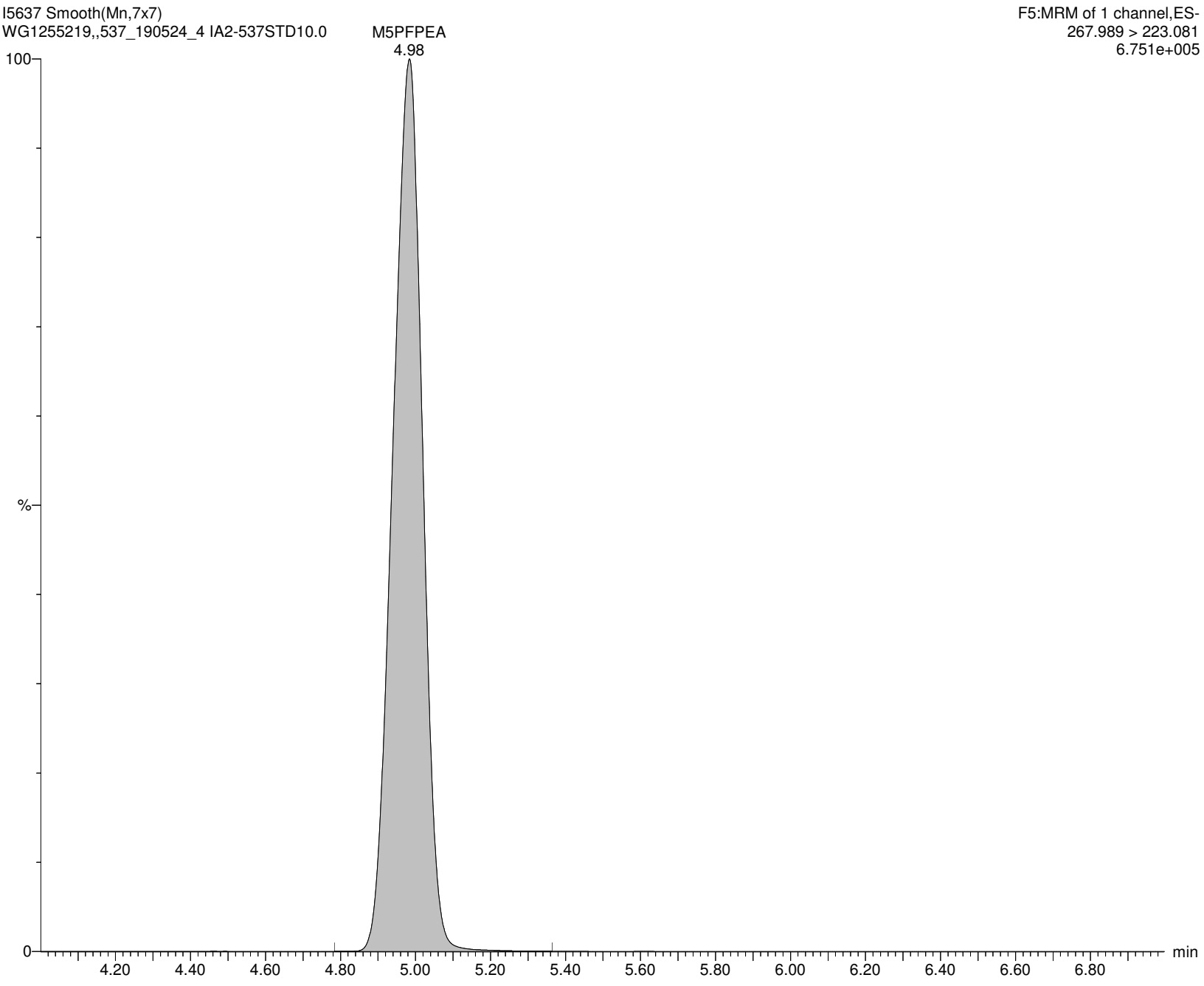


all concentration units in (ng/mL)

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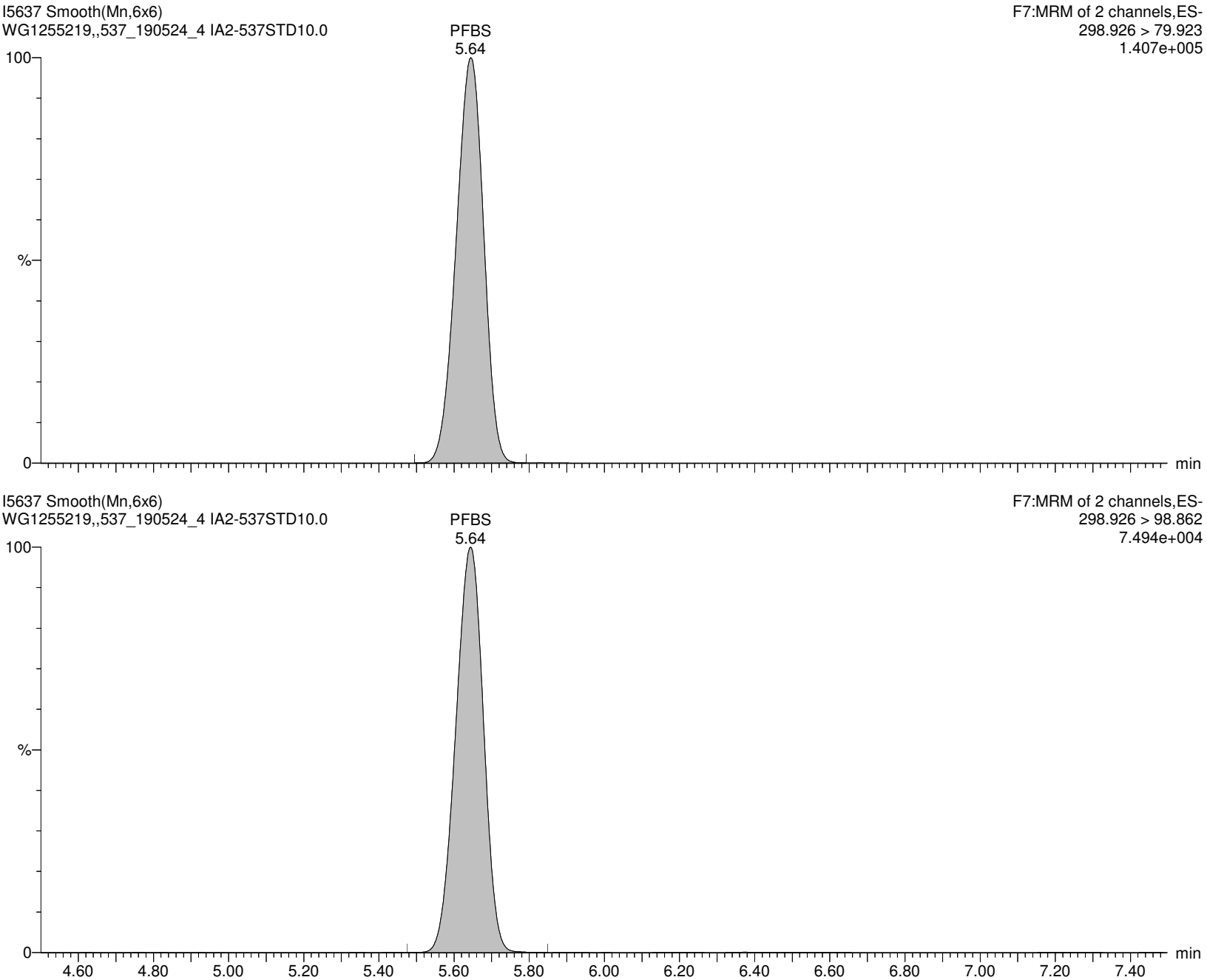


all concentration units in (ng/mL)

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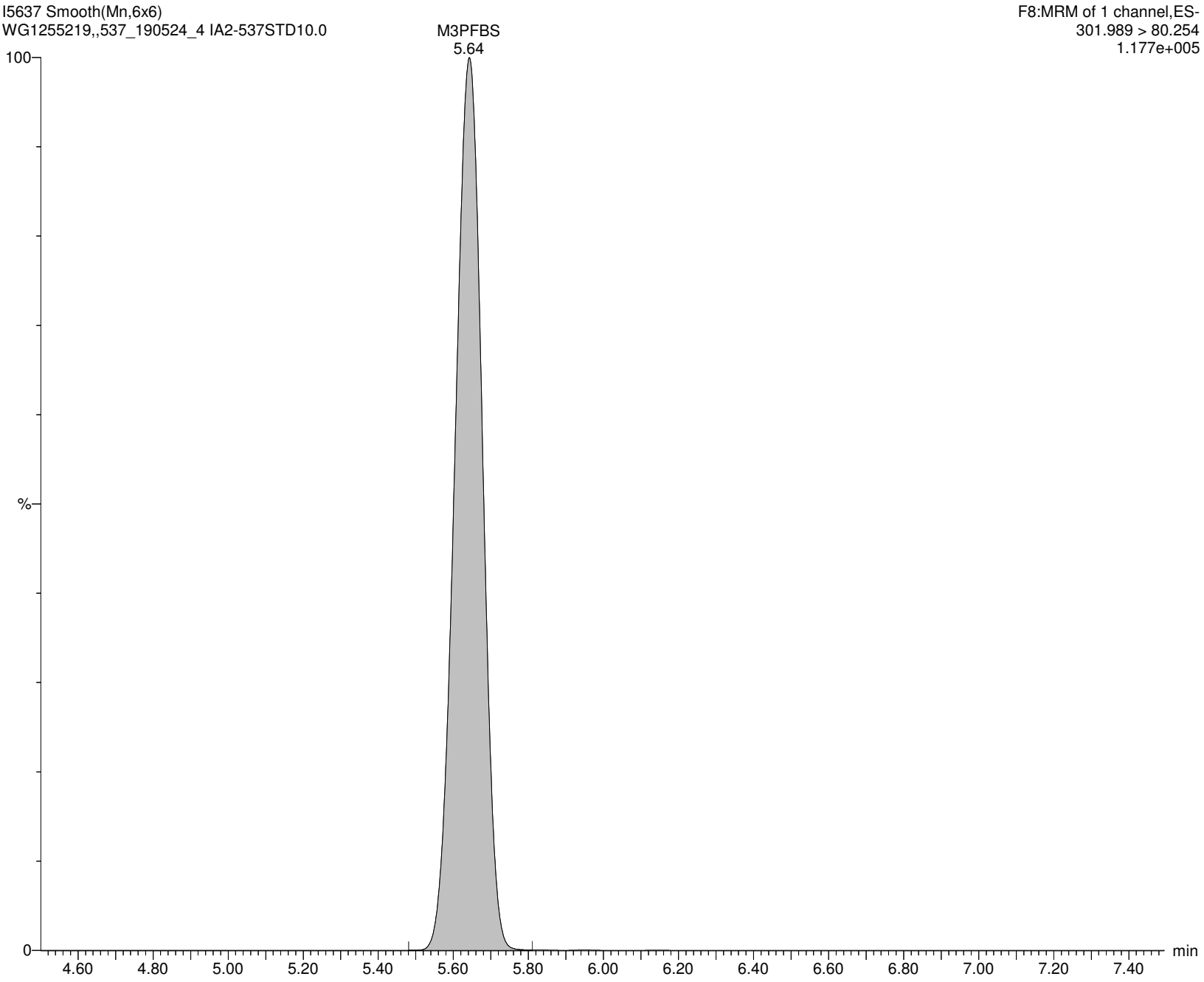


all concentration units in (ng/mL)

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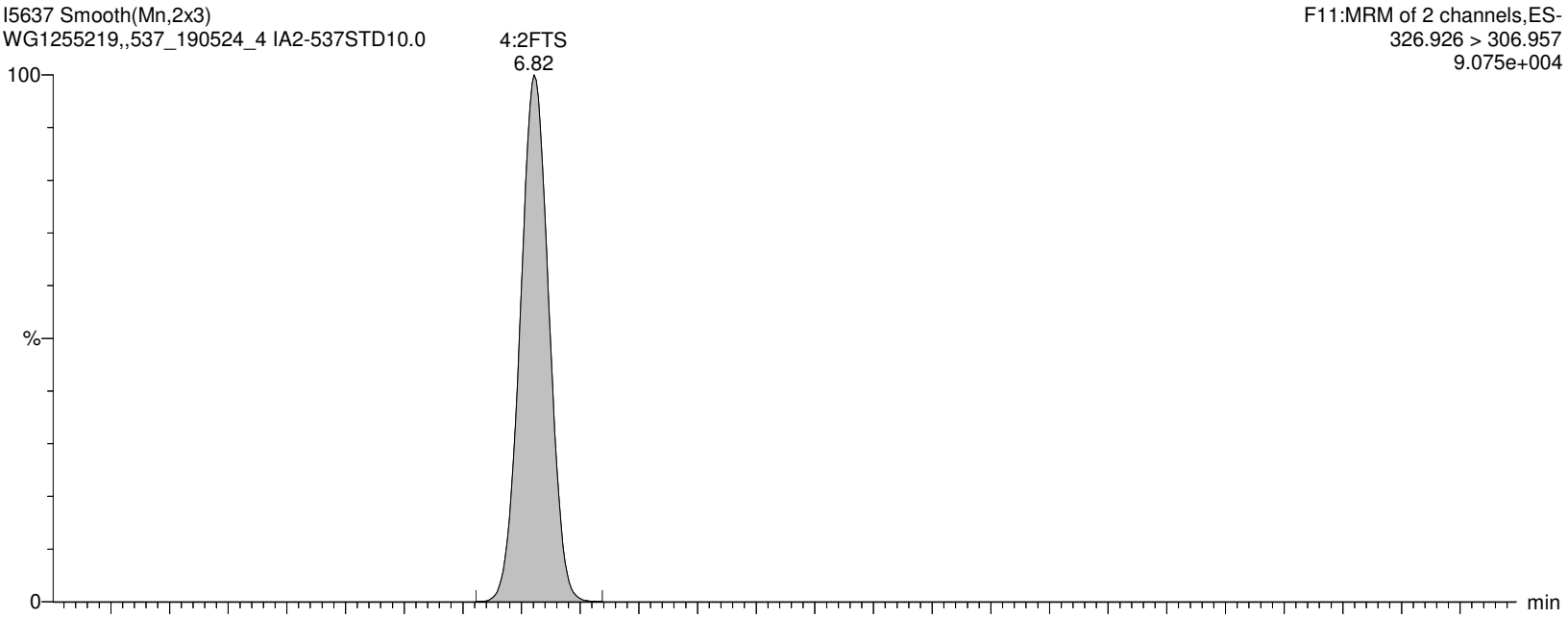


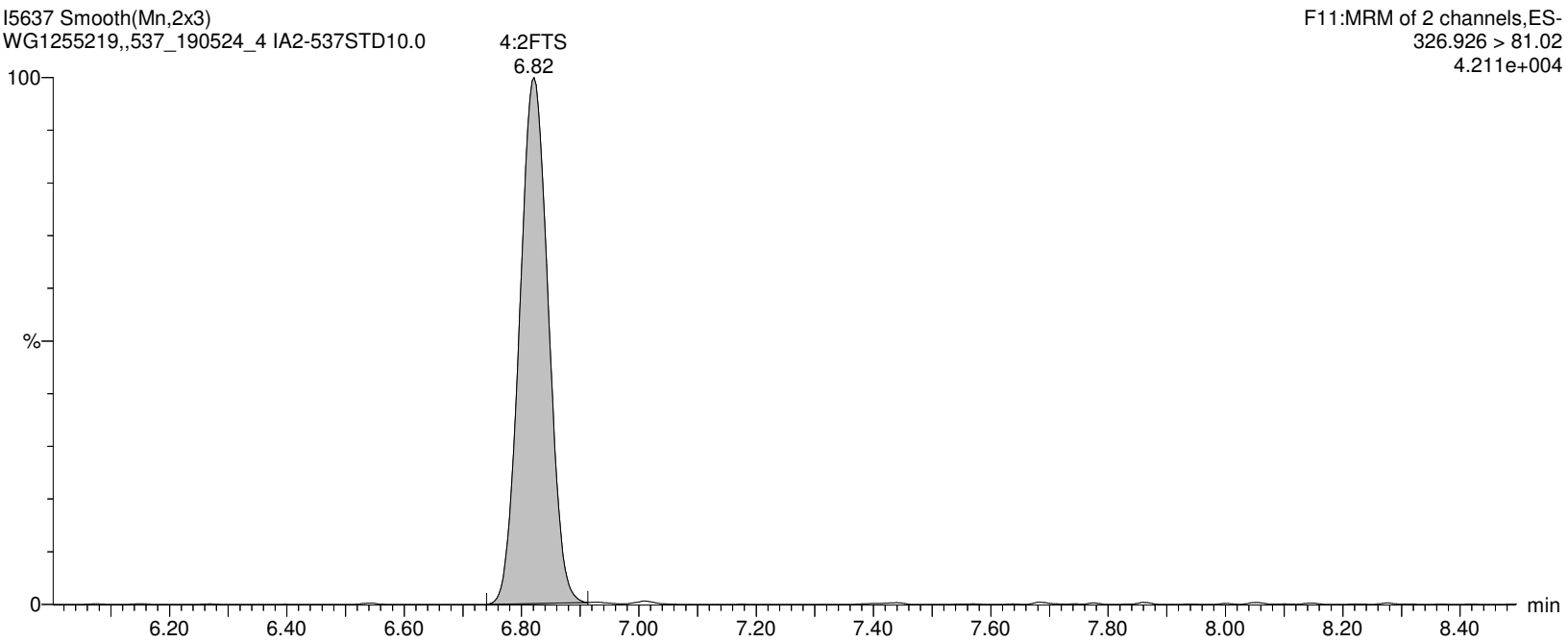
all concentration units in (ng/mL)

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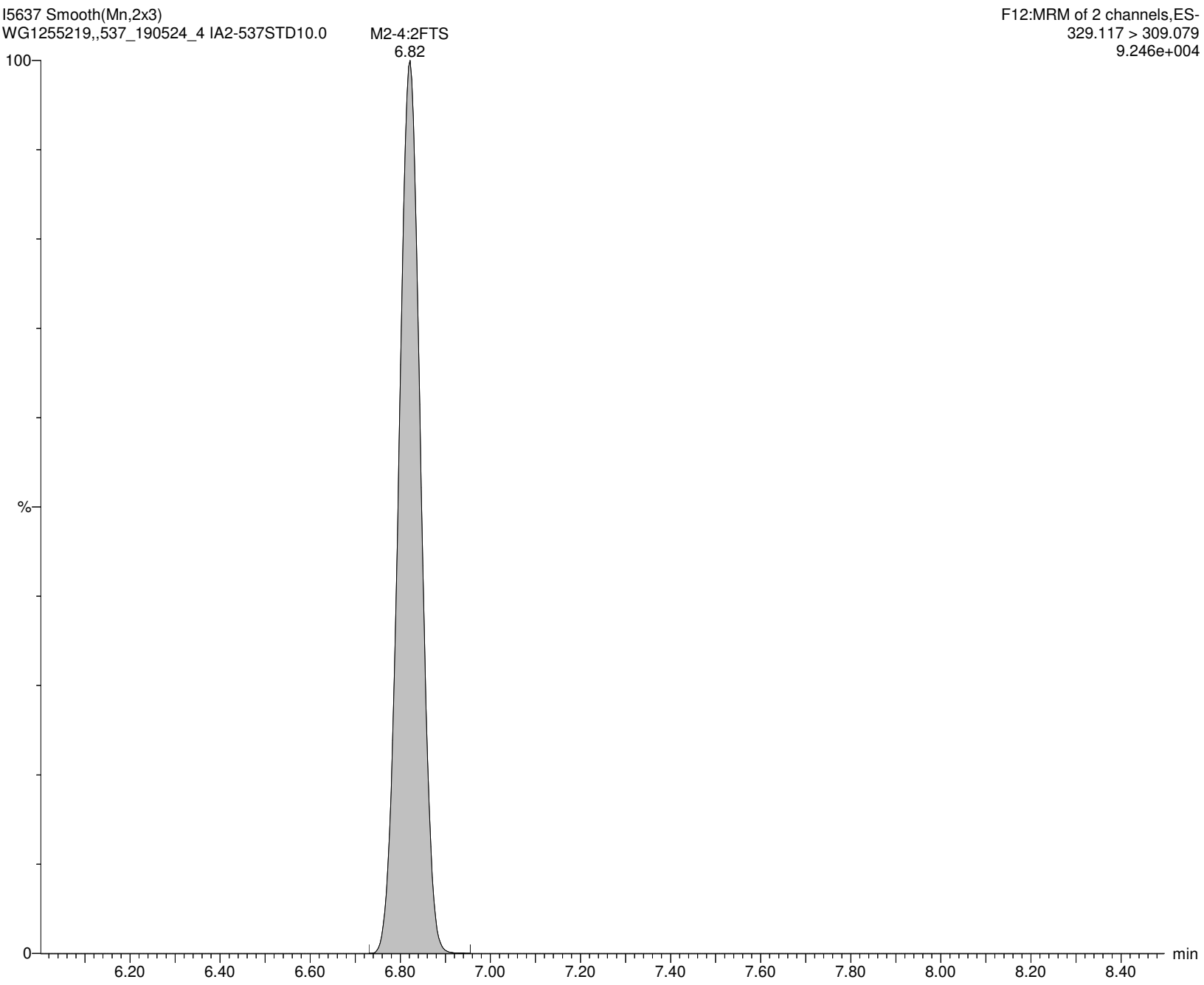


all concentration units in (ng/mL)

Alpha Analytical Inc.
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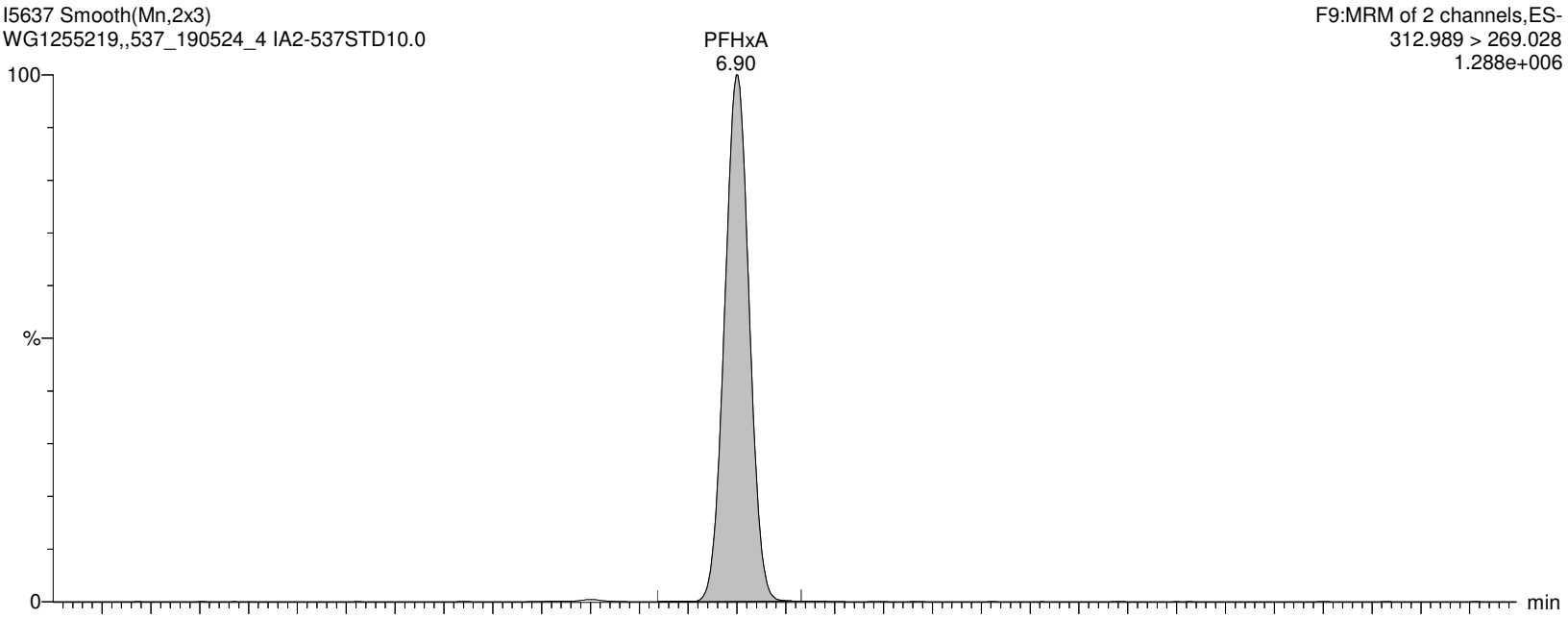


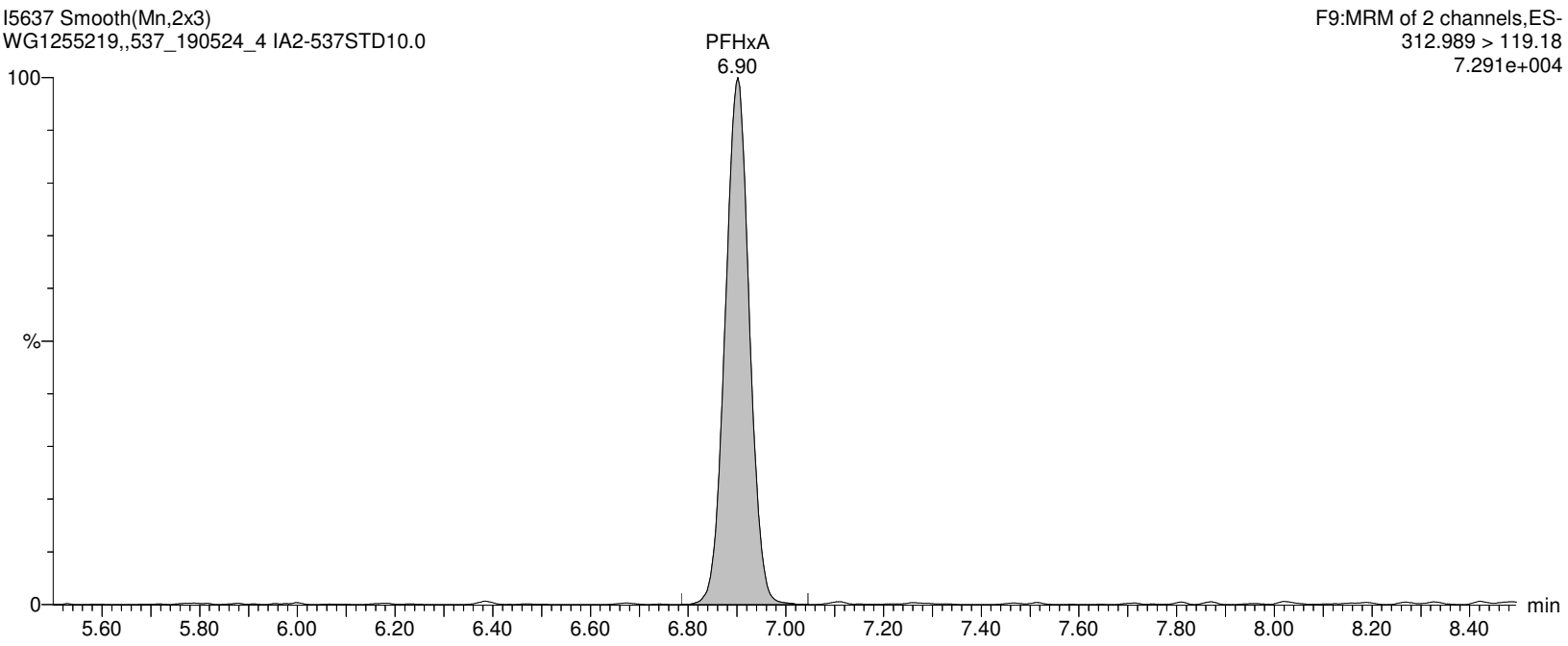
all concentration units in (ng/mL)

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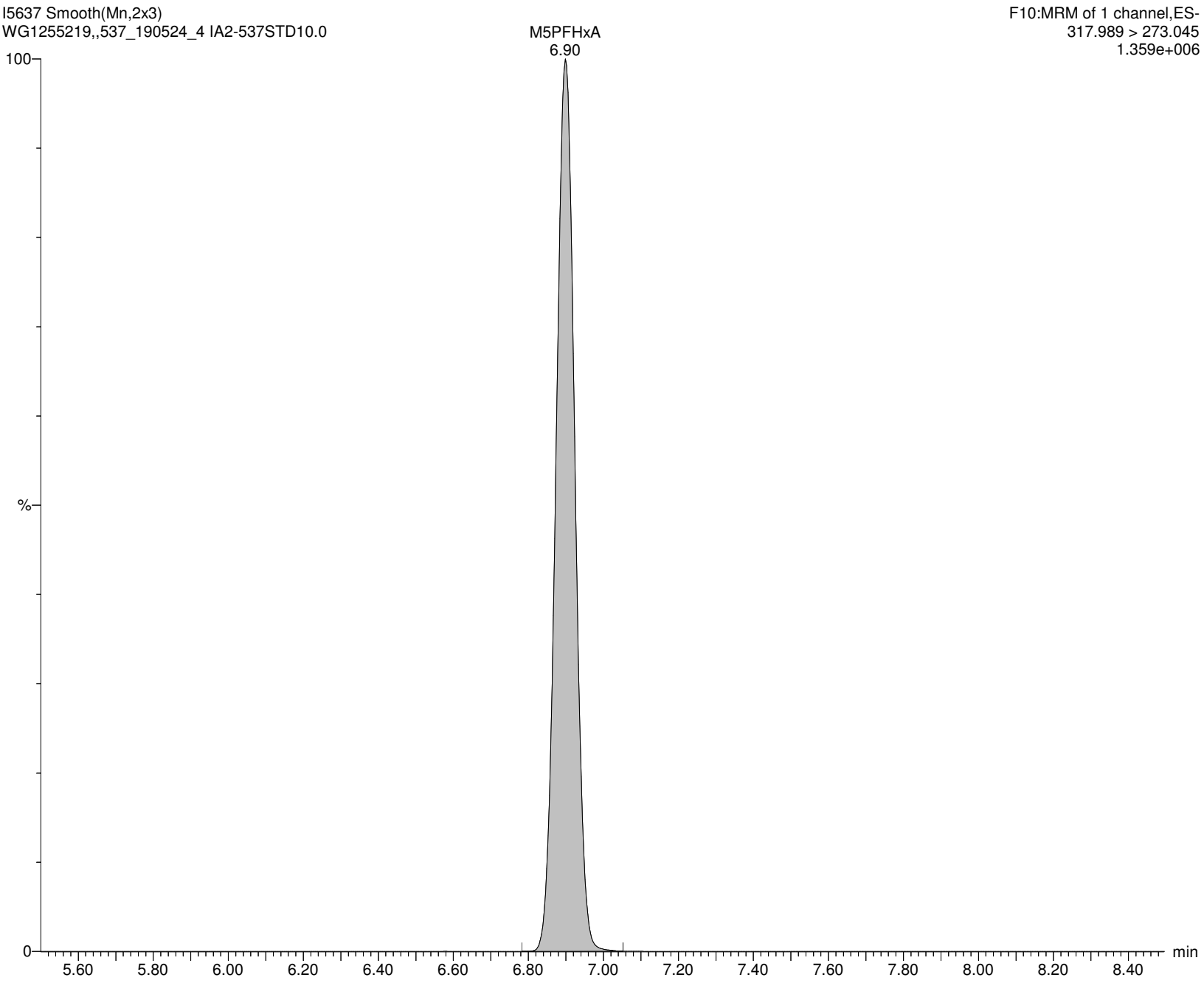


all concentration units in (ng/mL)

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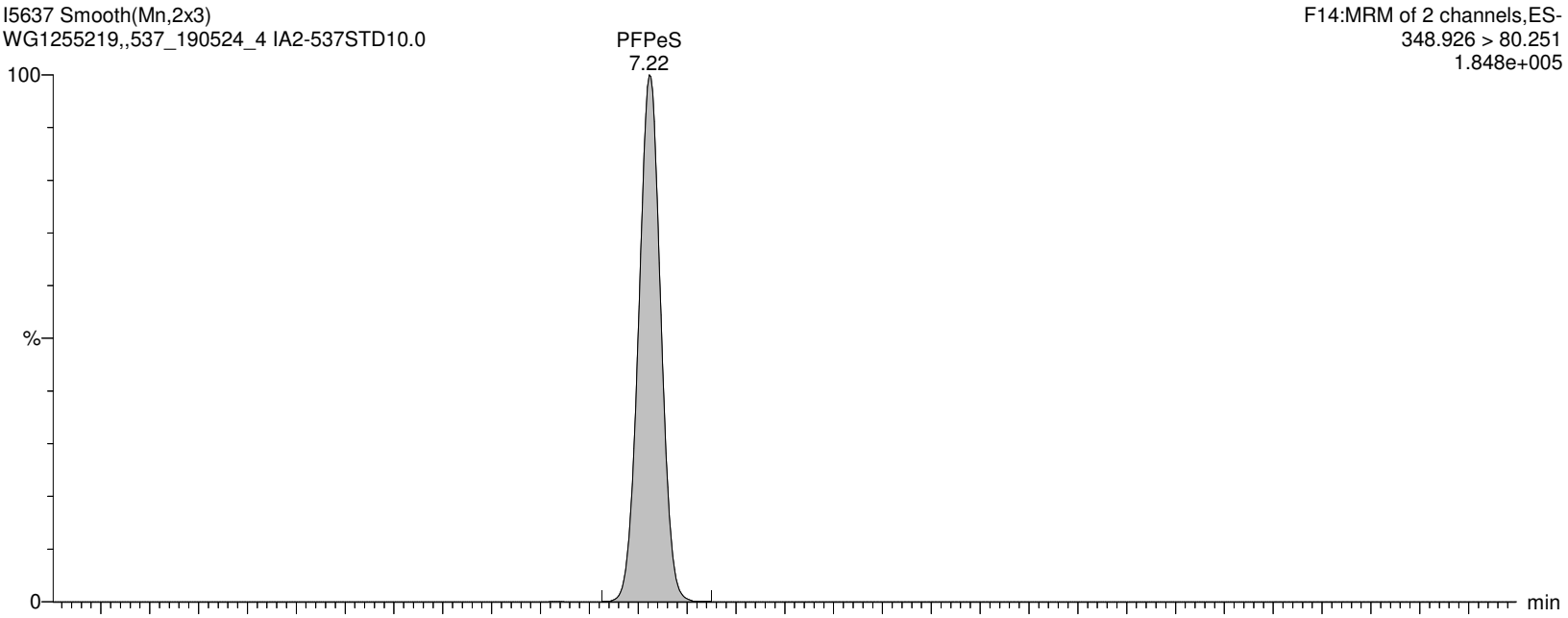


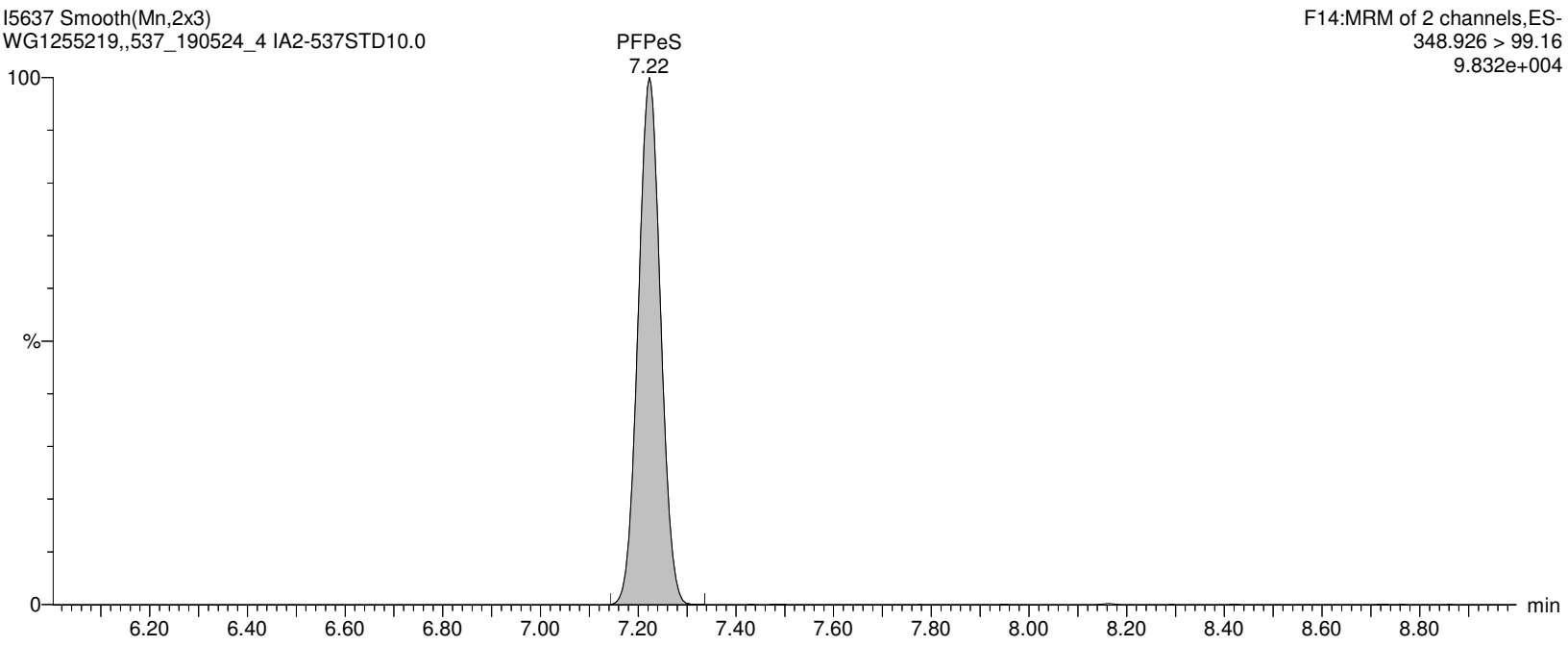
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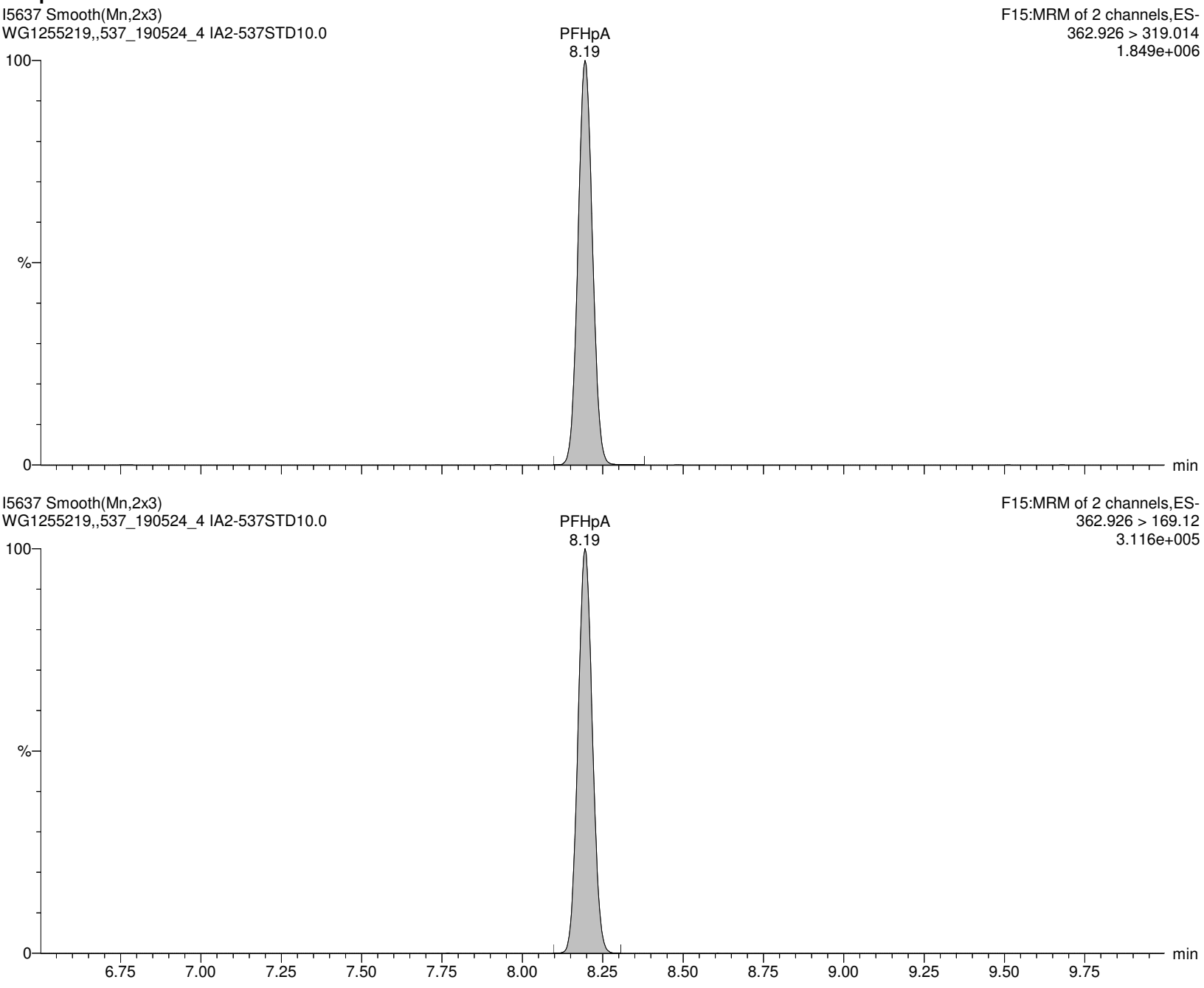


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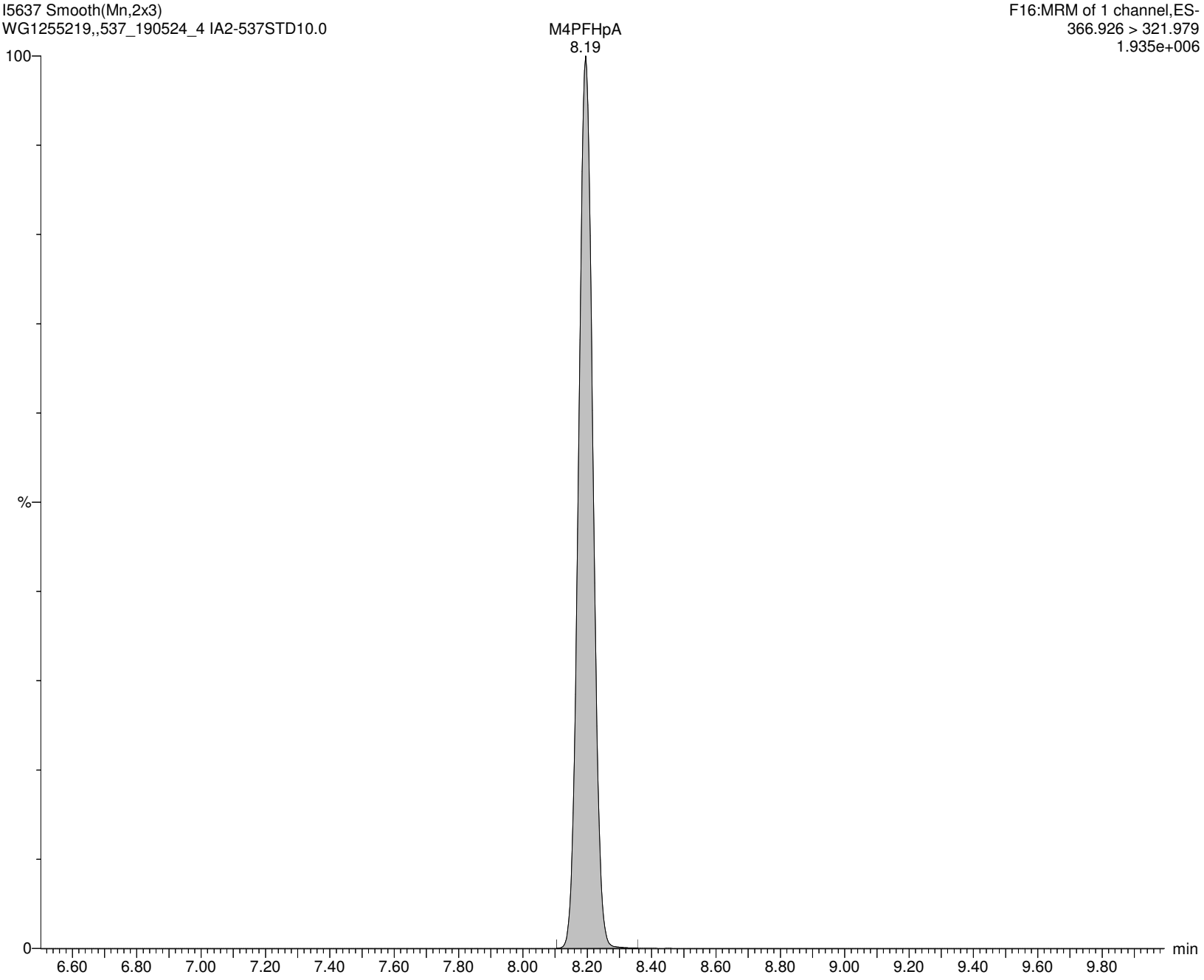


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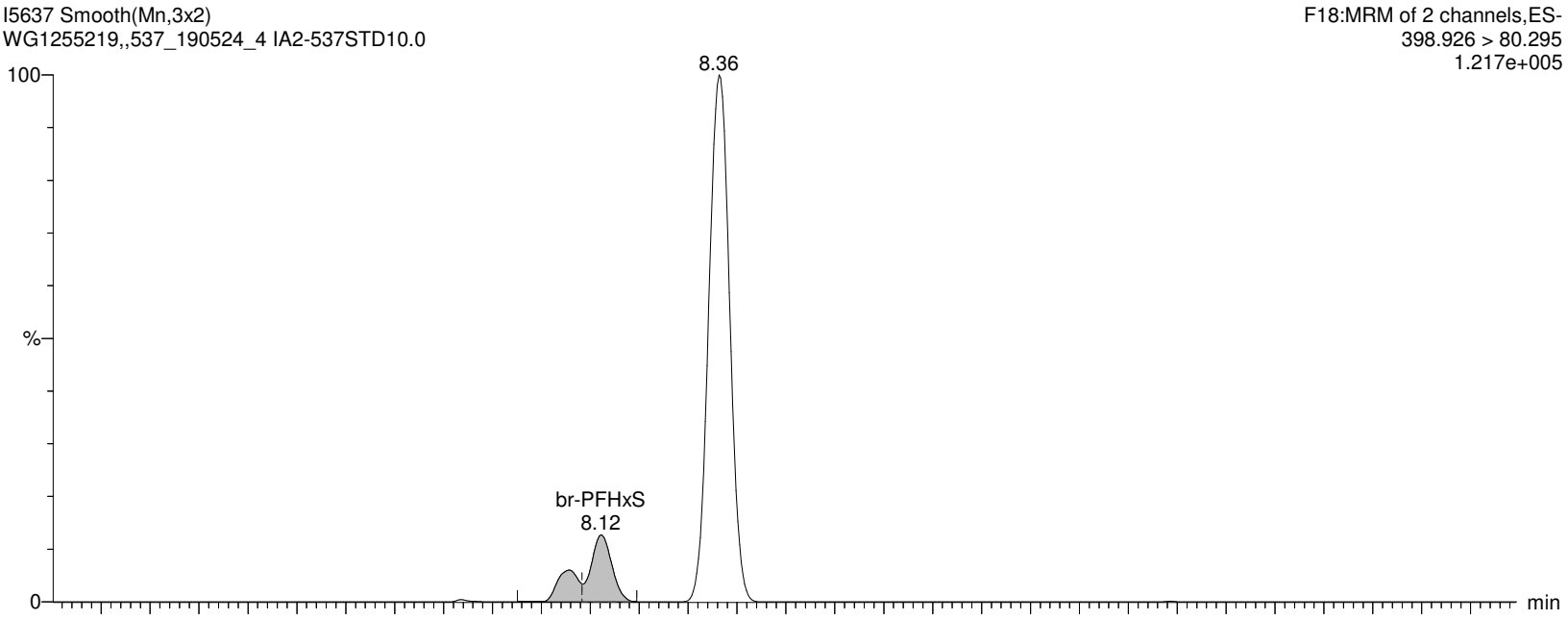


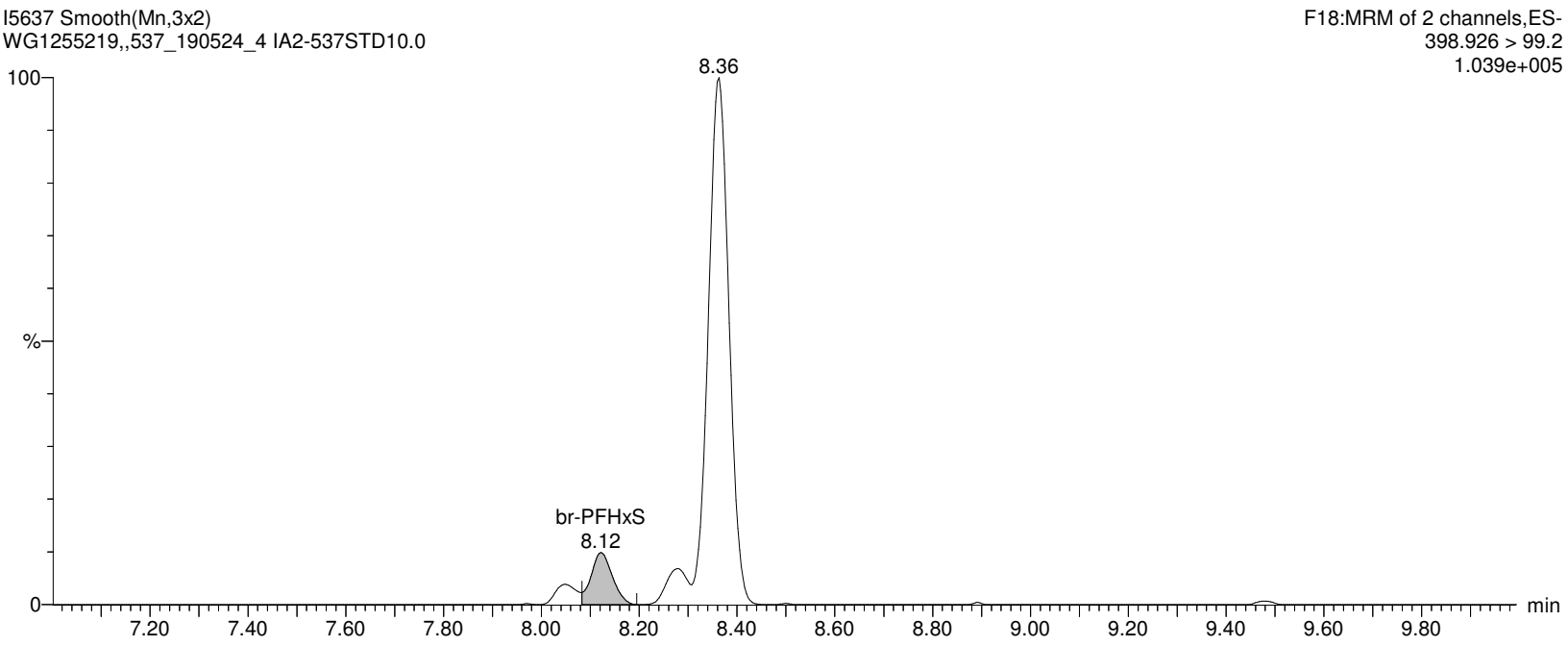
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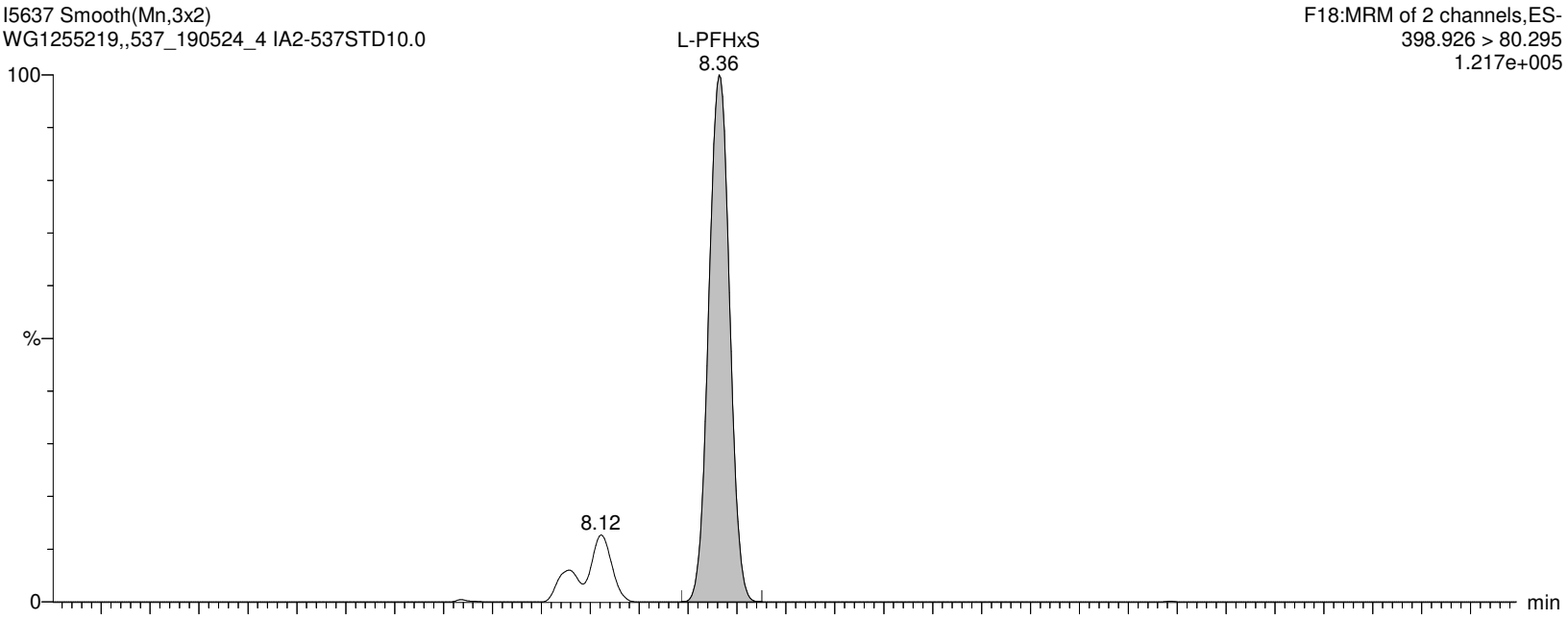


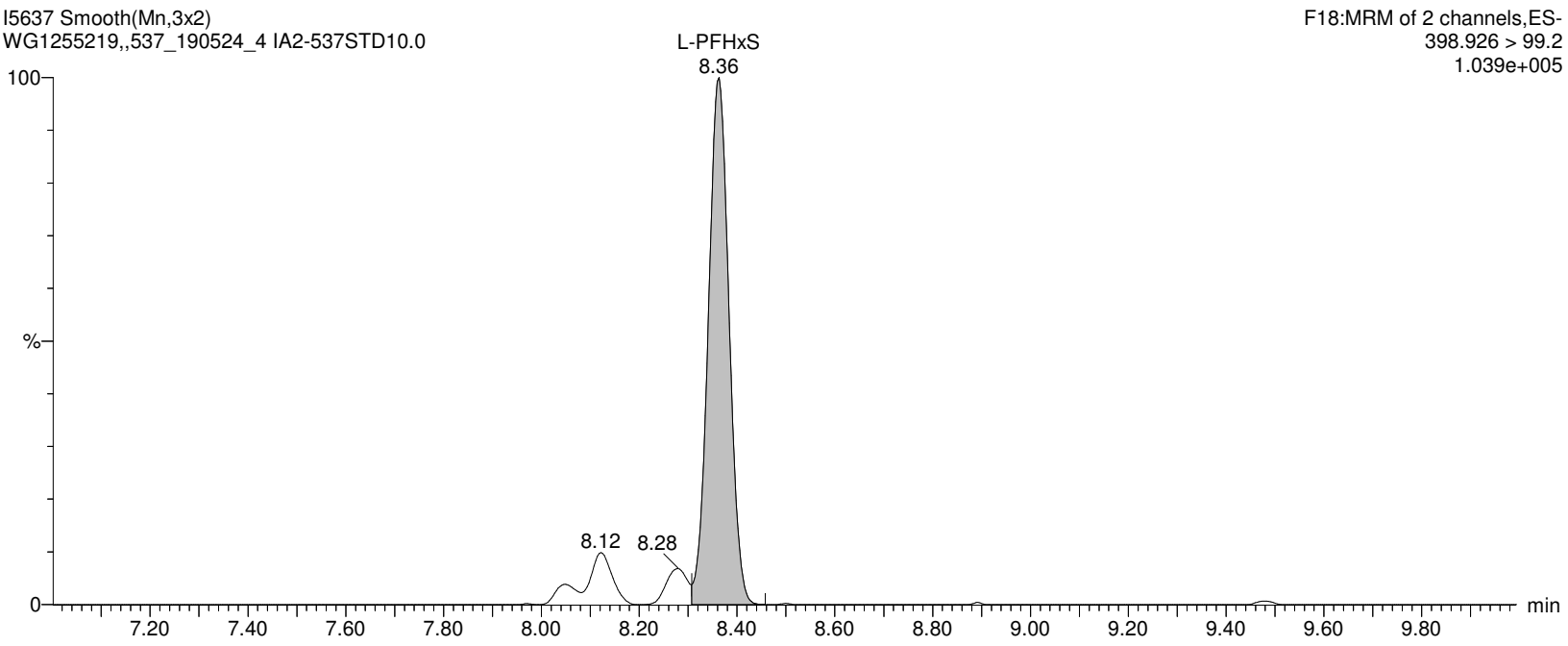
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:36 Eastern Daylight Time

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ID: IA2-537STD10.0
Date: 01-Jul-2019
Time: 18:47:03
Description: WG1255219,,537_190524_4
User: LCMS02:JW
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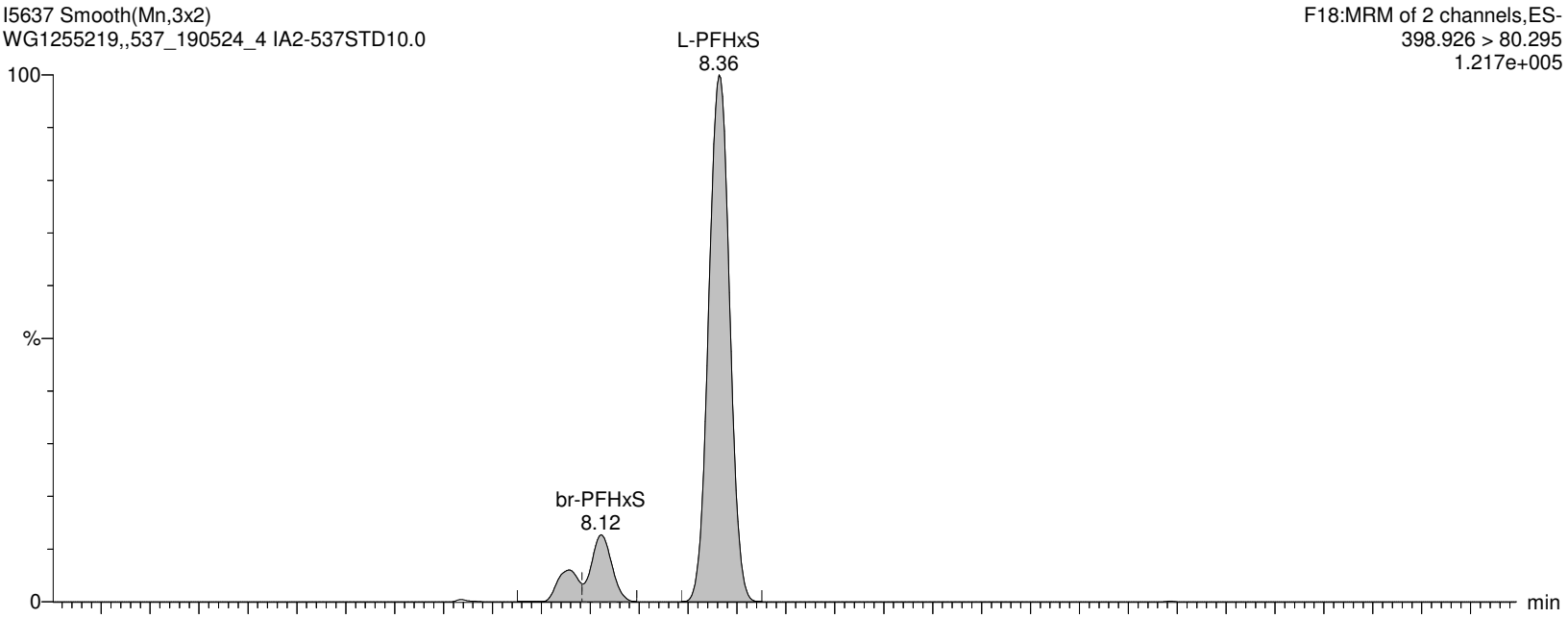


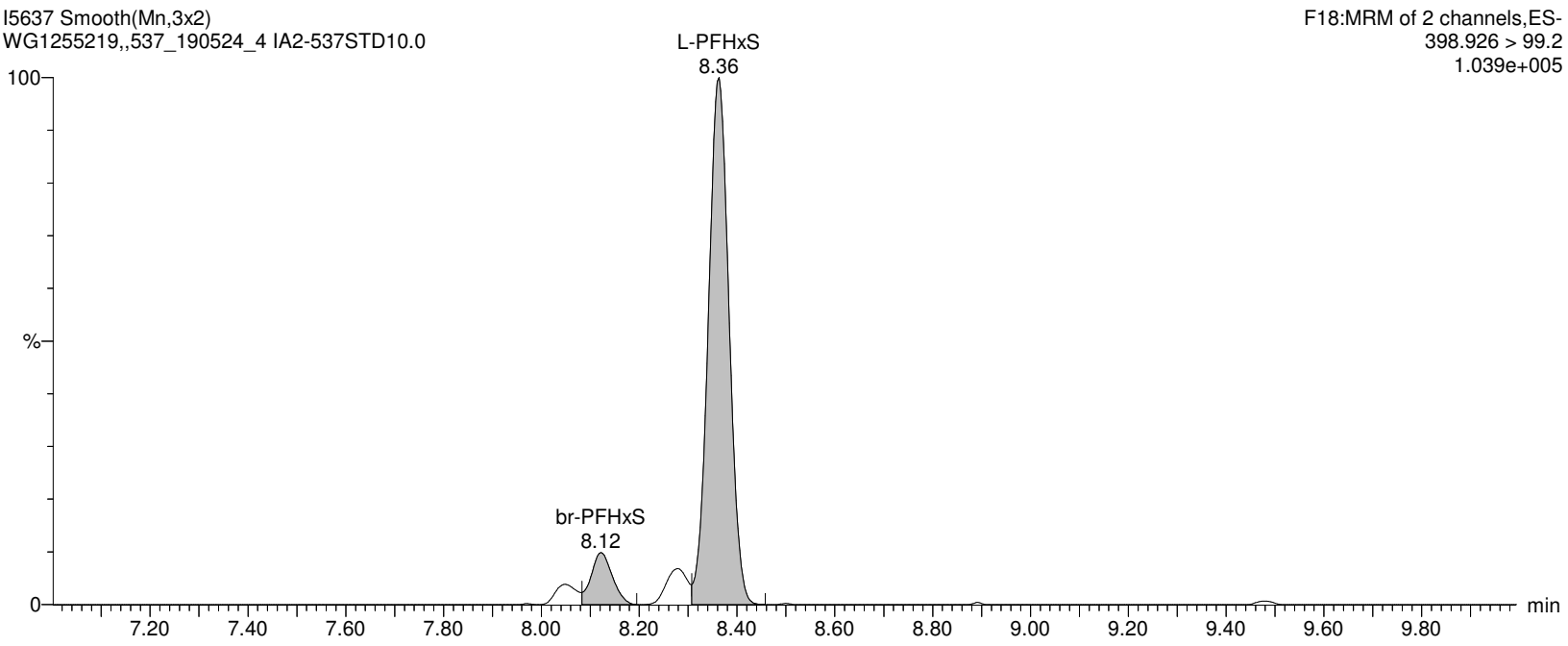
all concentration units in (ng/mL)

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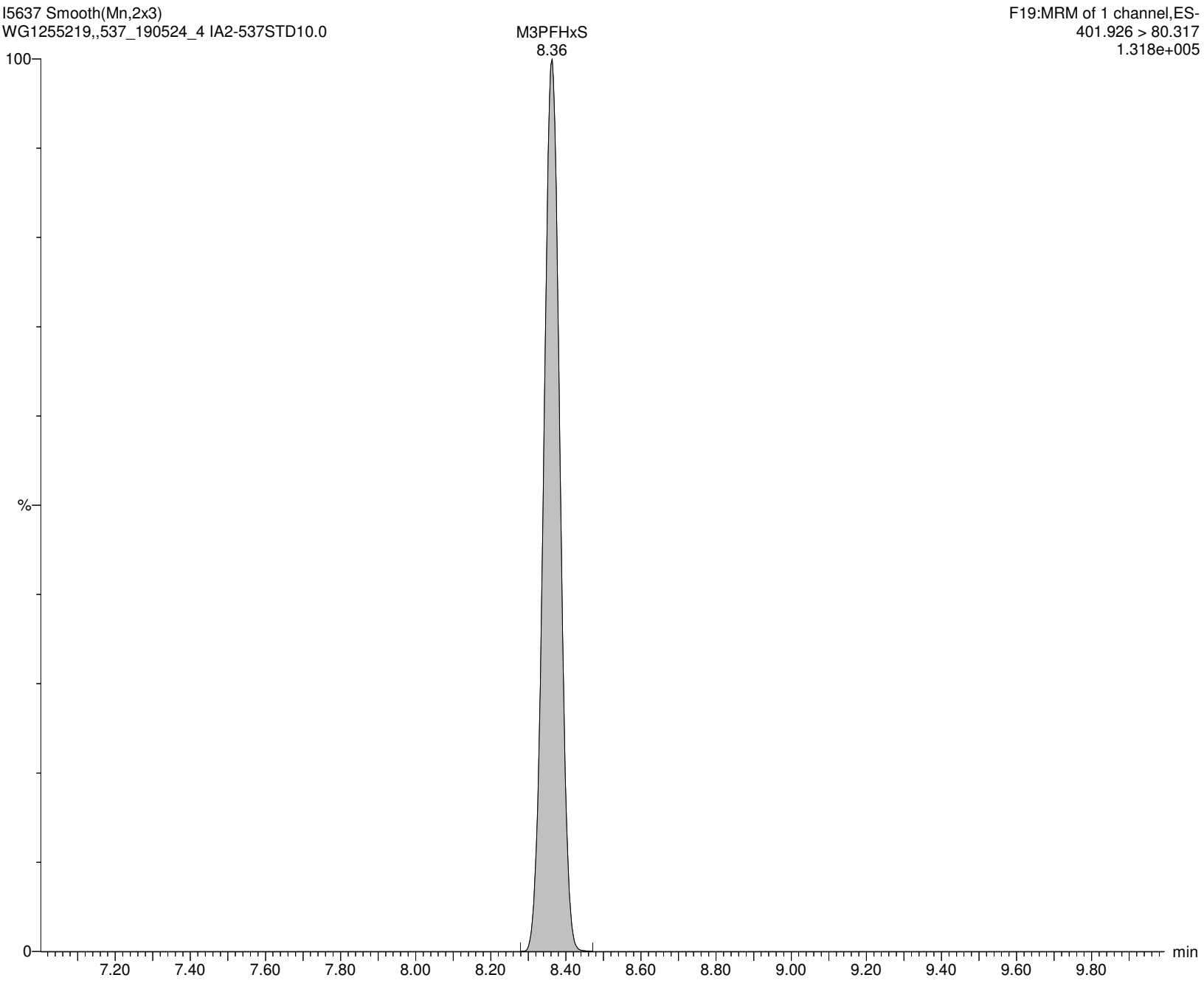


all concentration units in (ng/mL)

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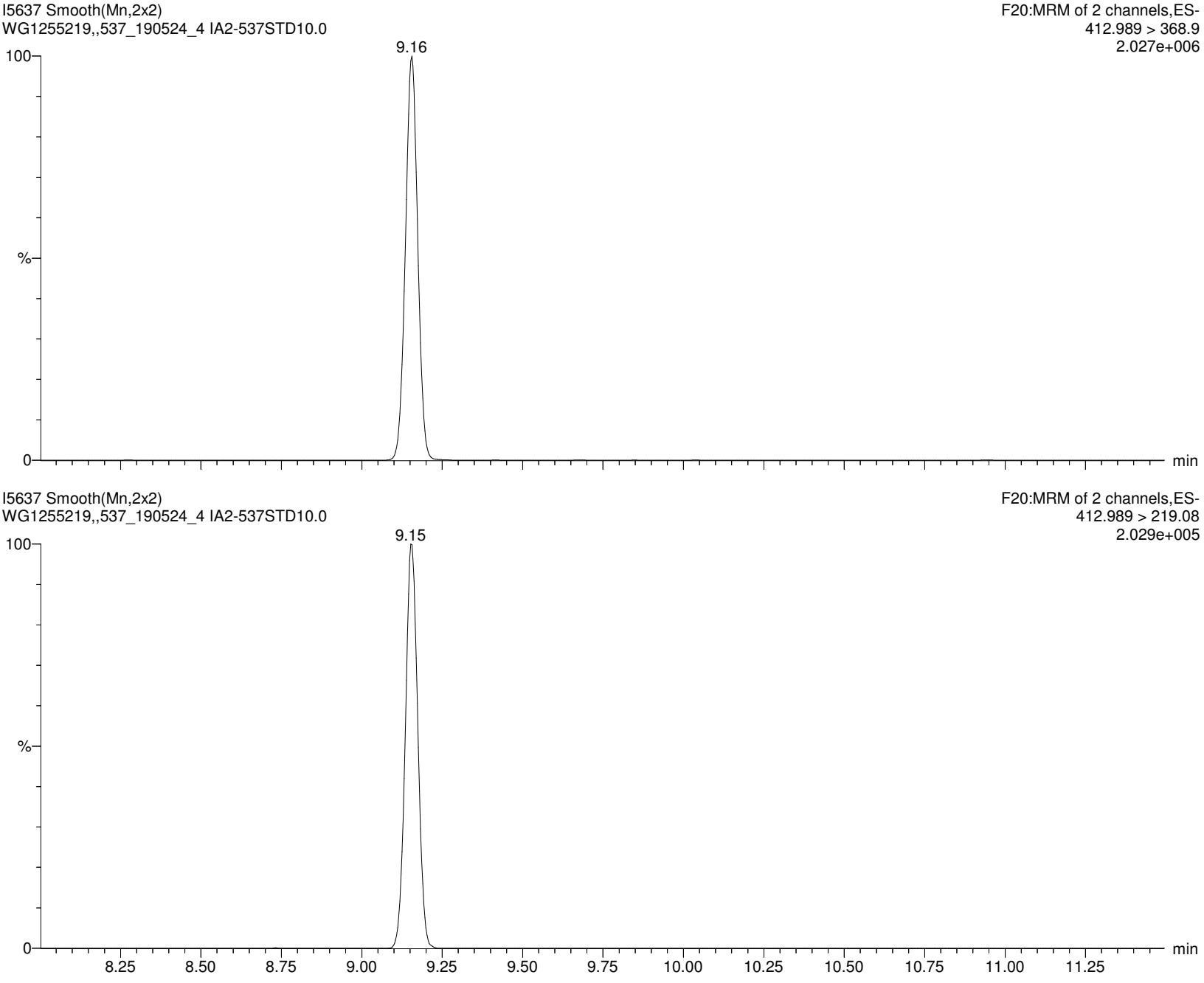


all concentration units in (ng/mL)

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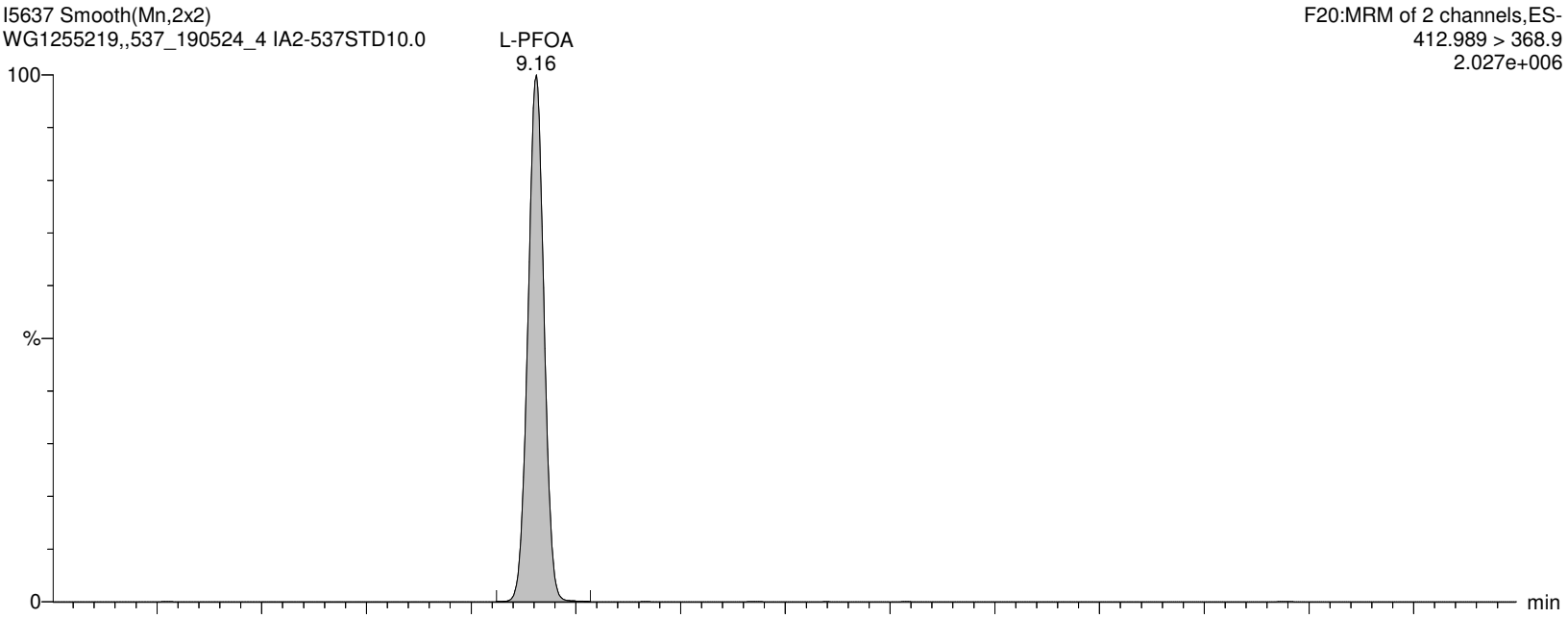


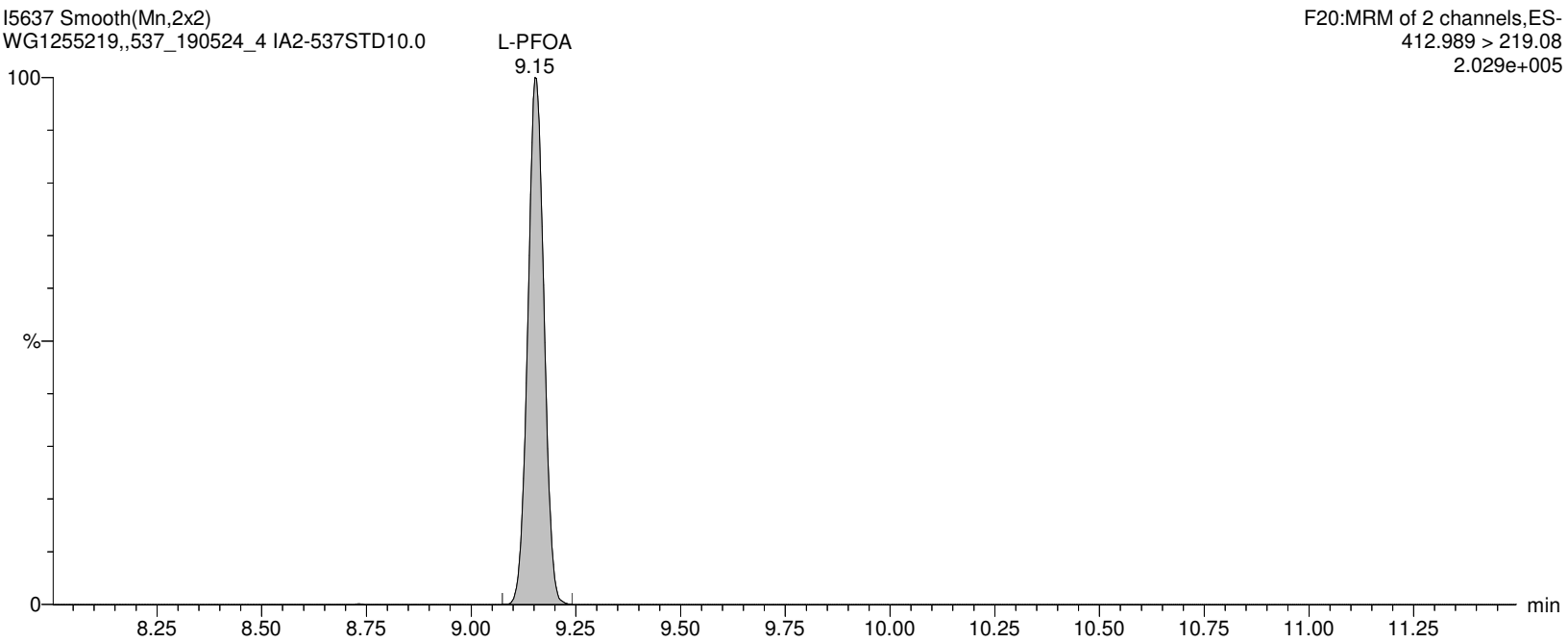
all concentration units in (ng/mL)

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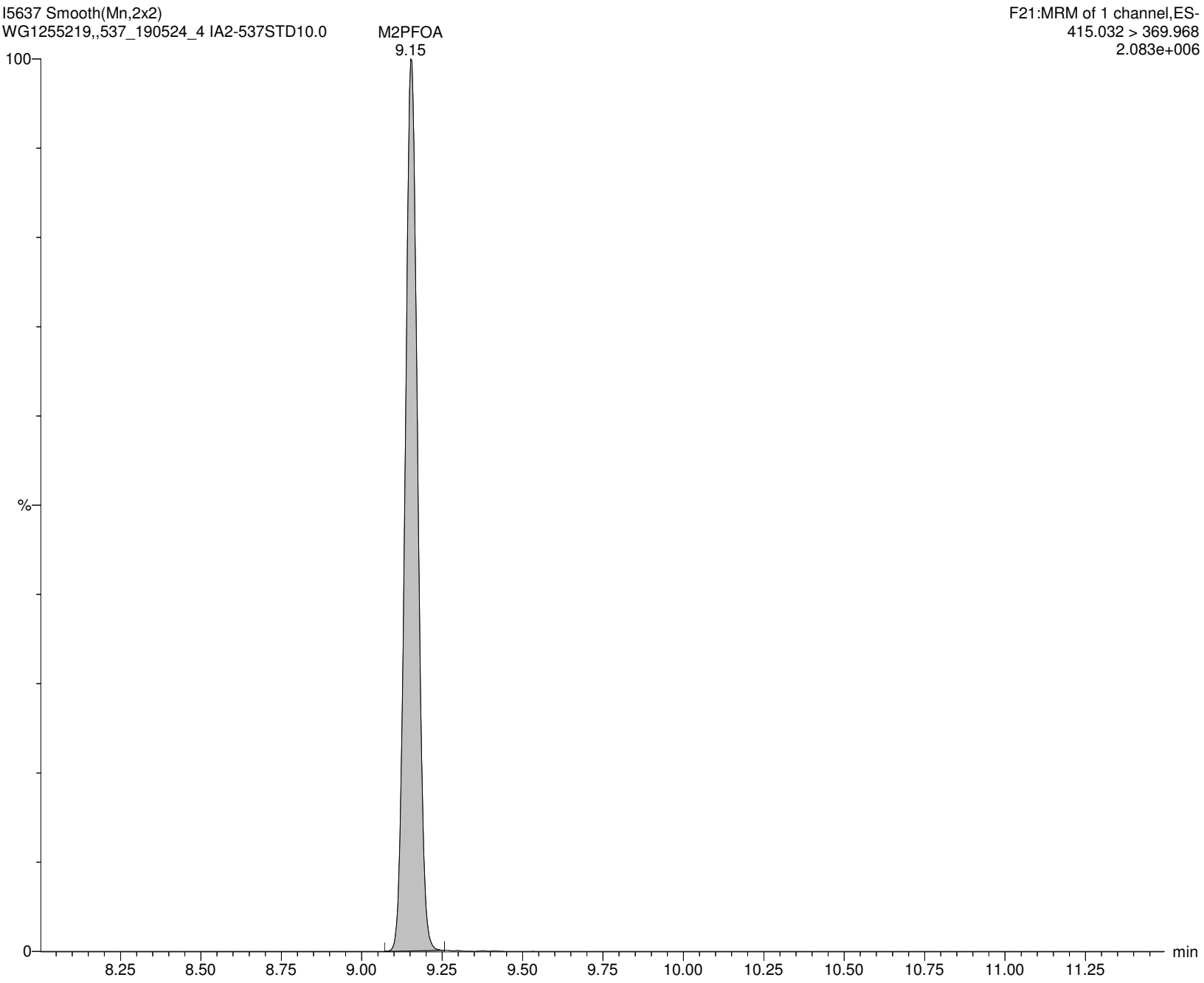


all concentration units in (ng/mL)

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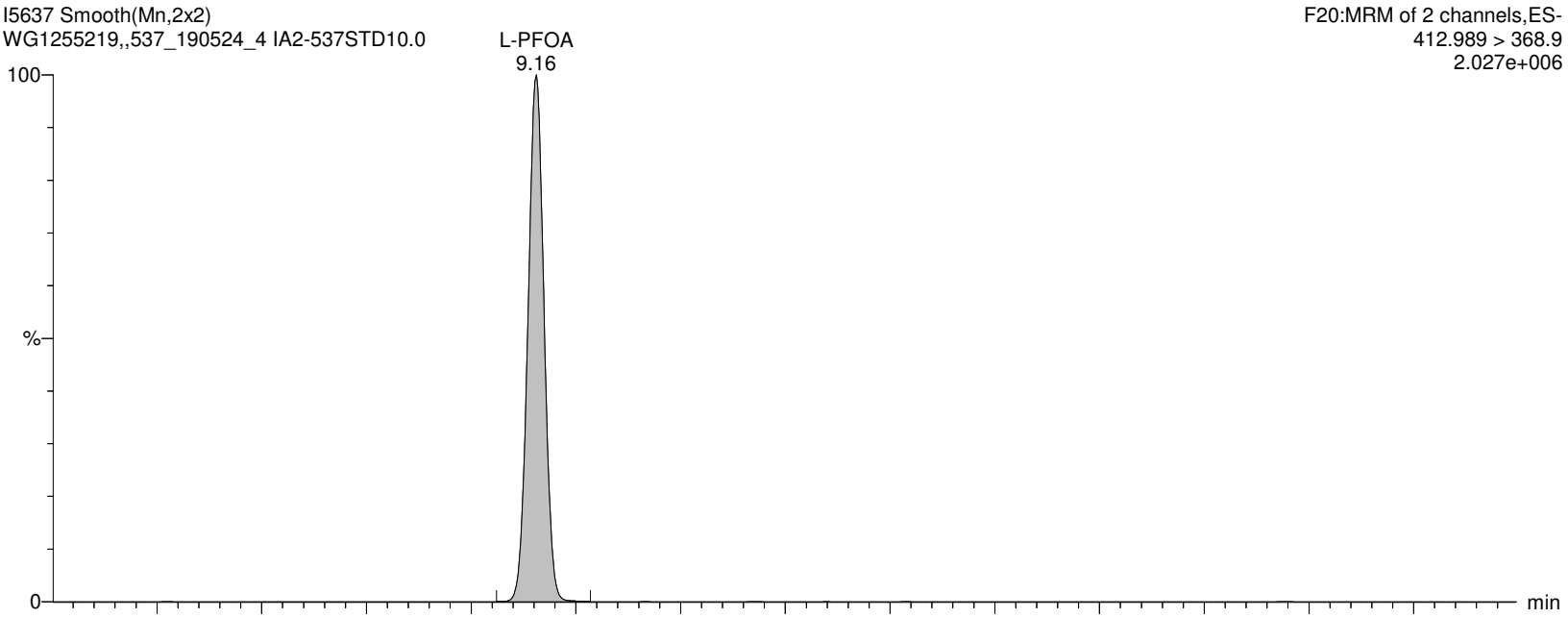


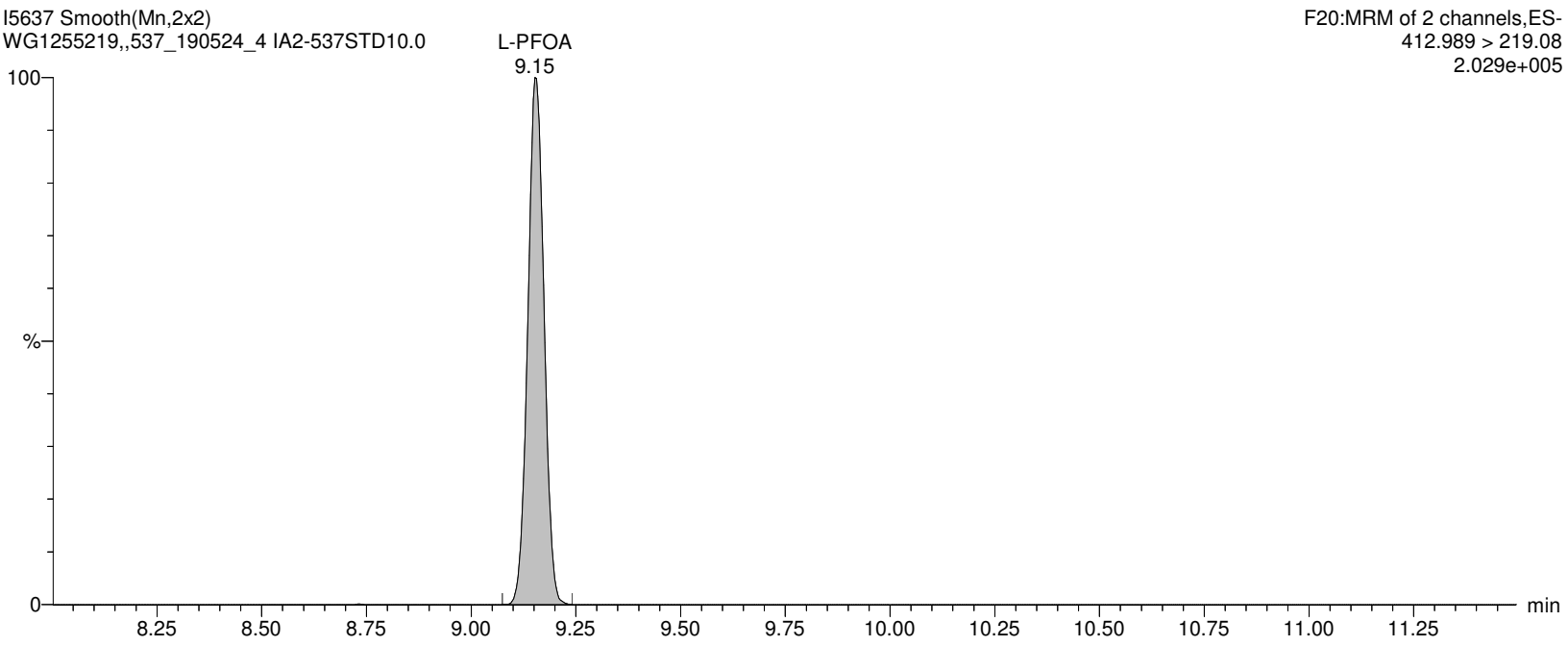
all concentration units in (ng/mL)

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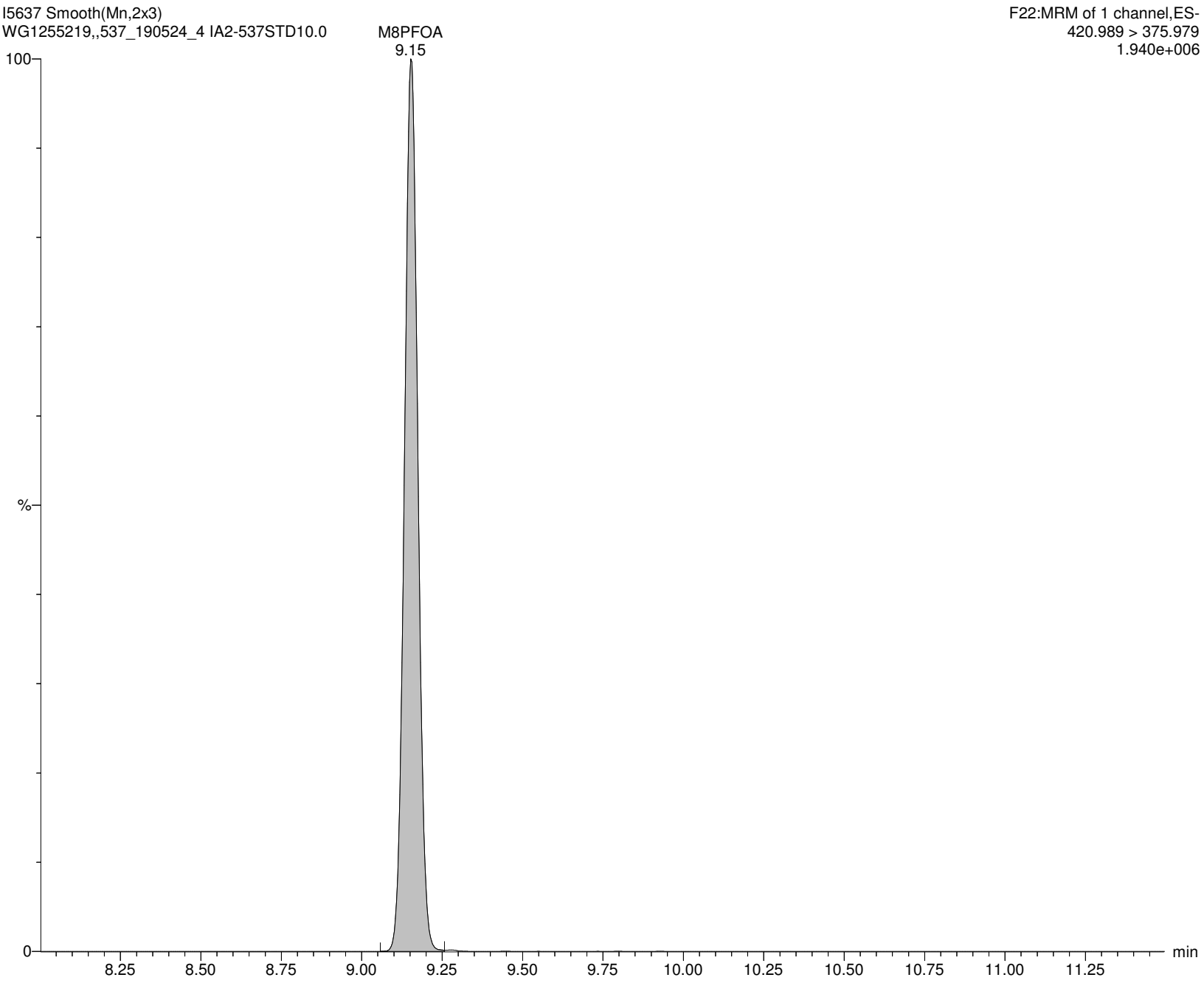


all concentration units in (ng/mL)

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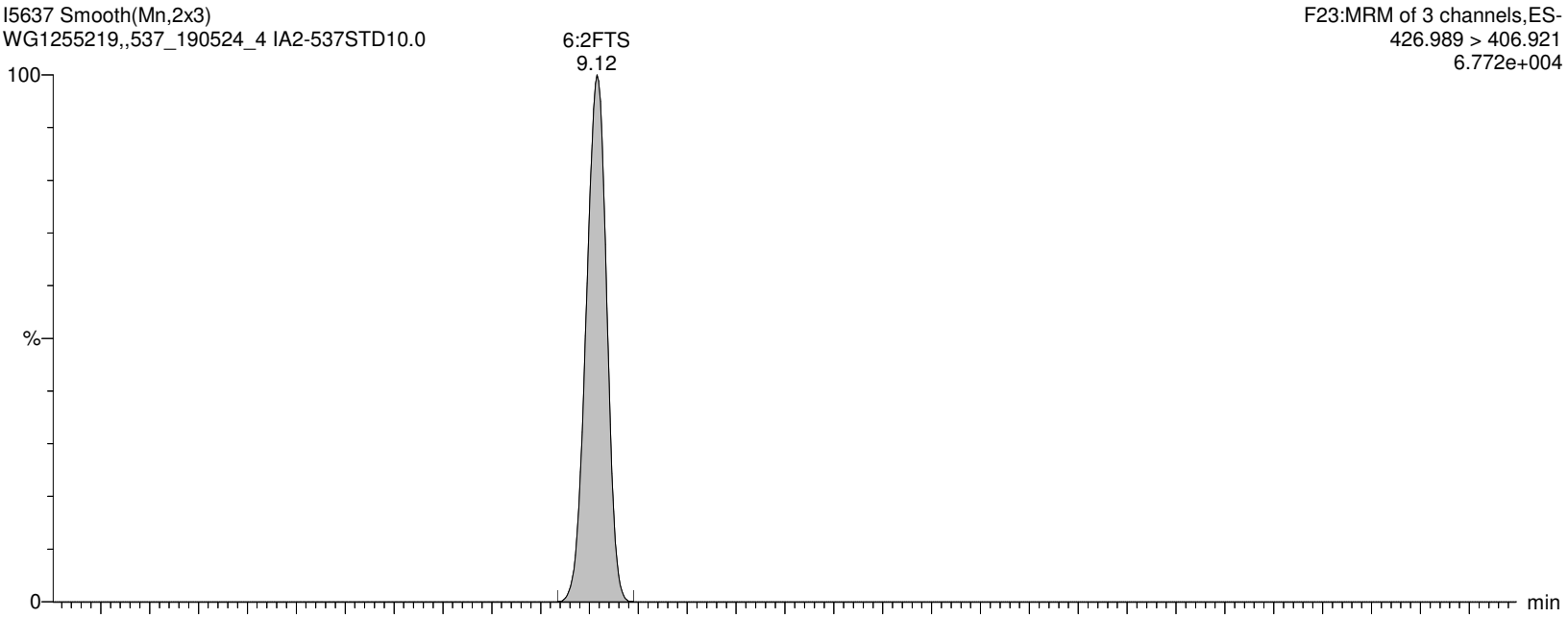


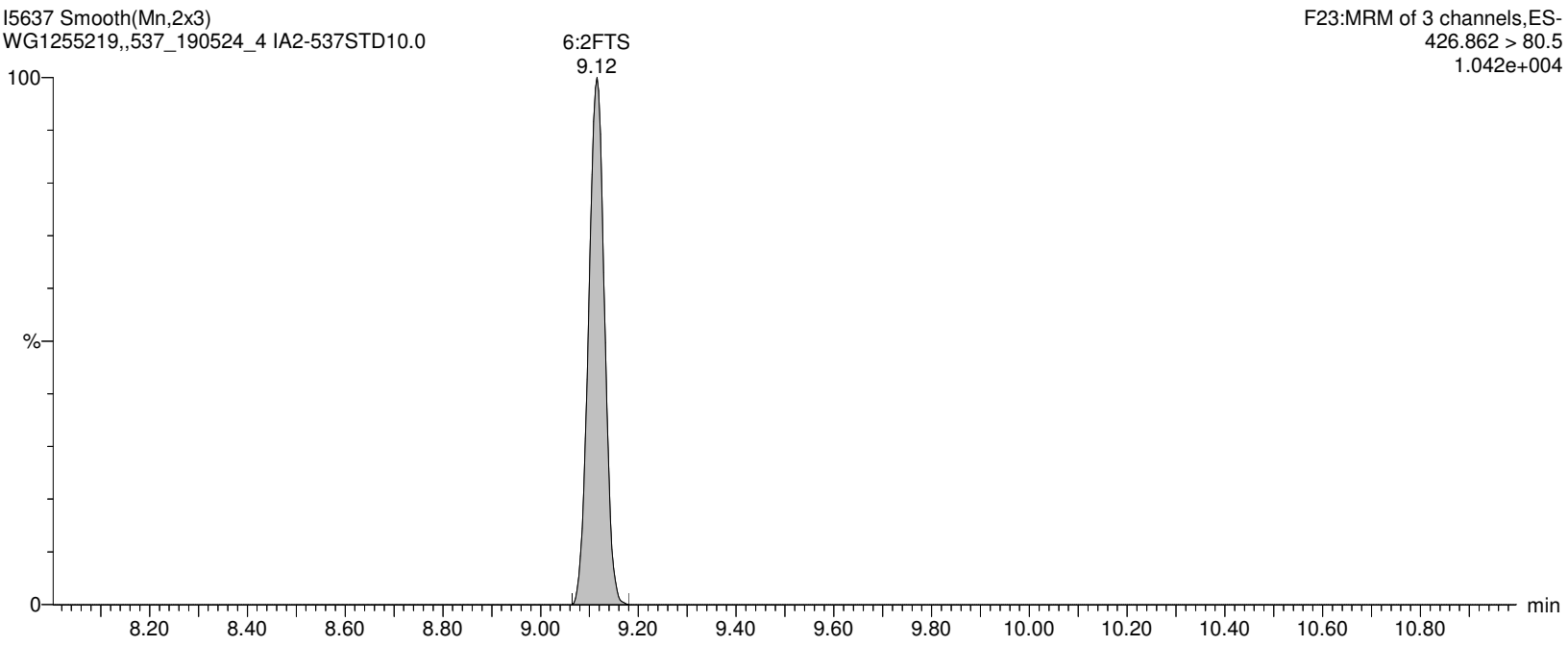
all concentration units in (ng/mL)

Alpha Analytical Inc.
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6:2FTS



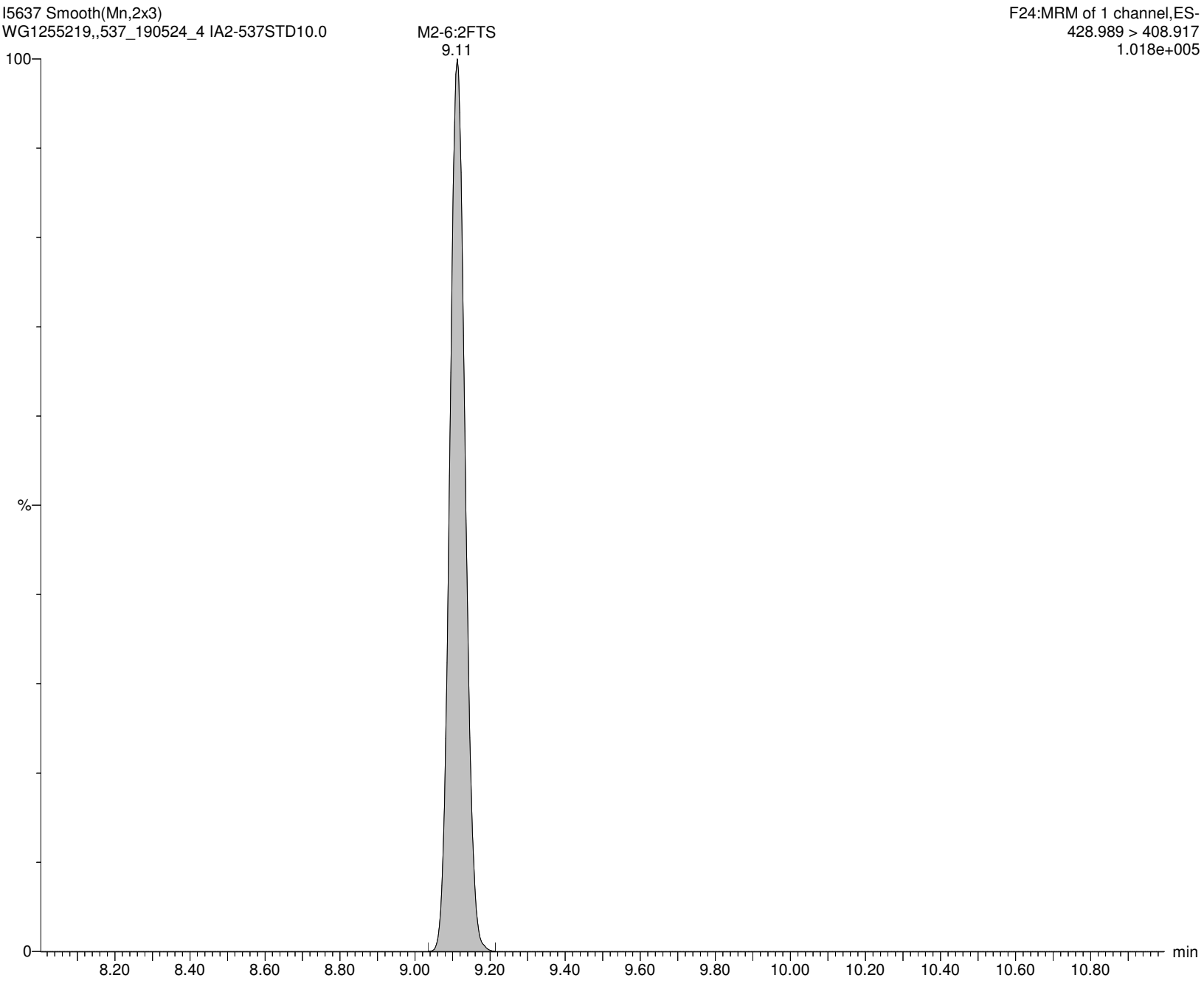


all concentration units in (ng/mL)

Alpha Analytical Inc.
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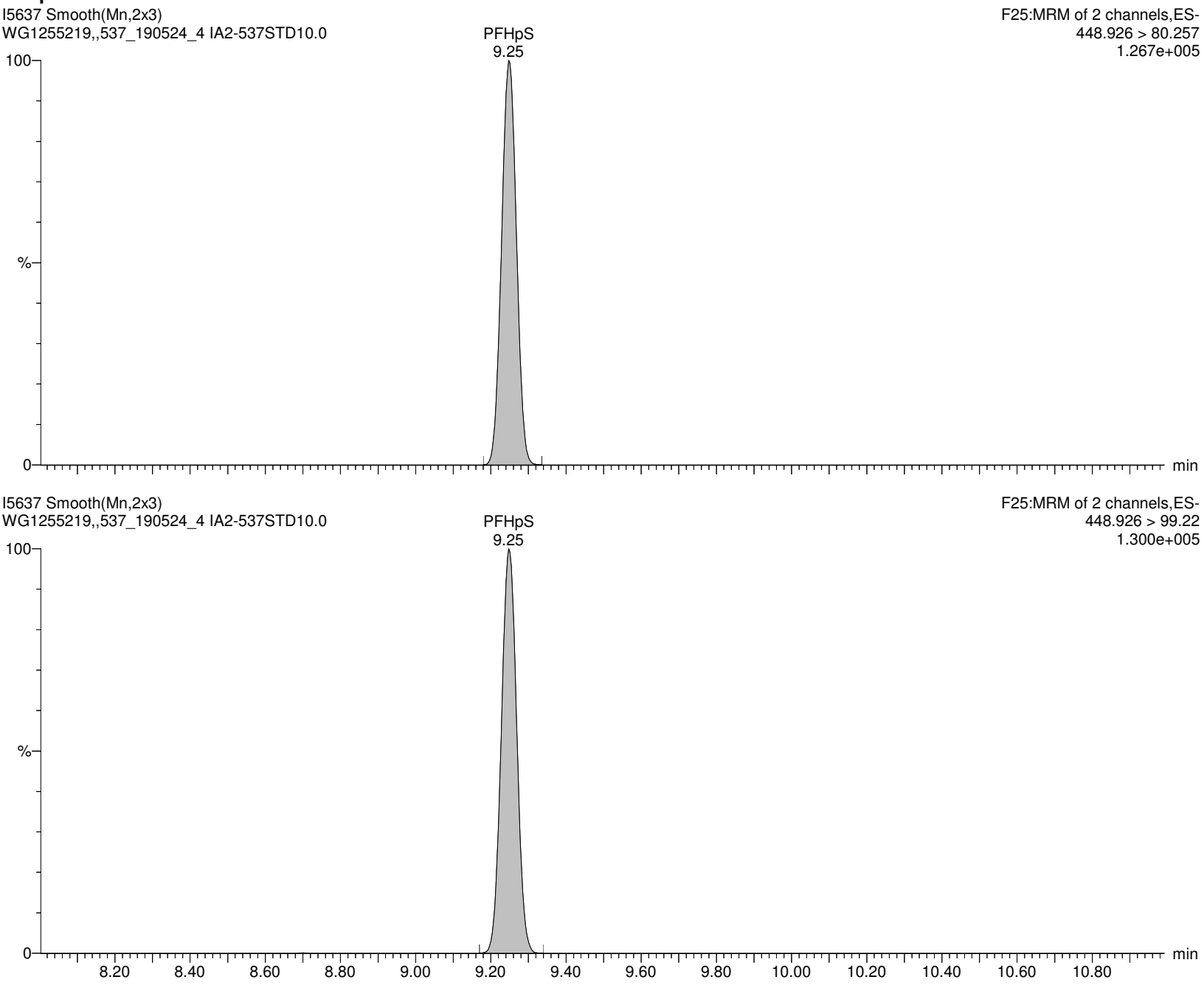


all concentration units in (ng/mL)

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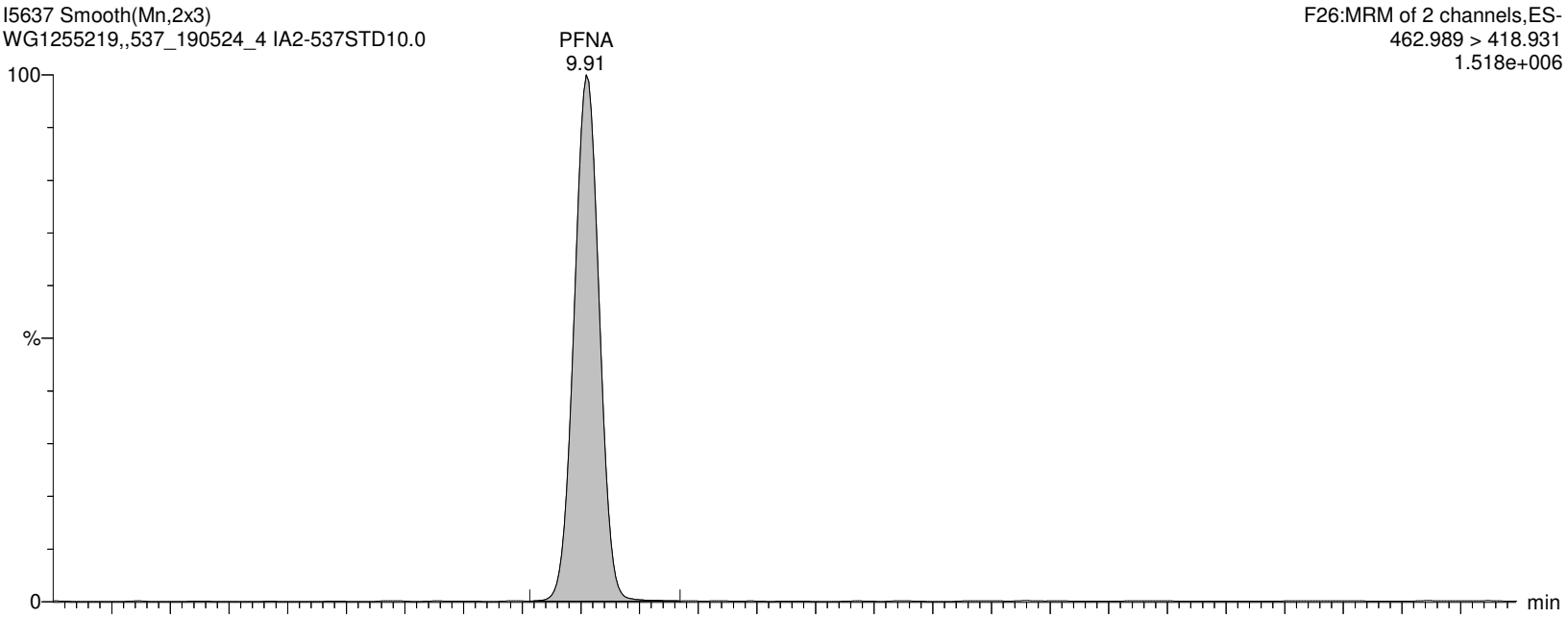


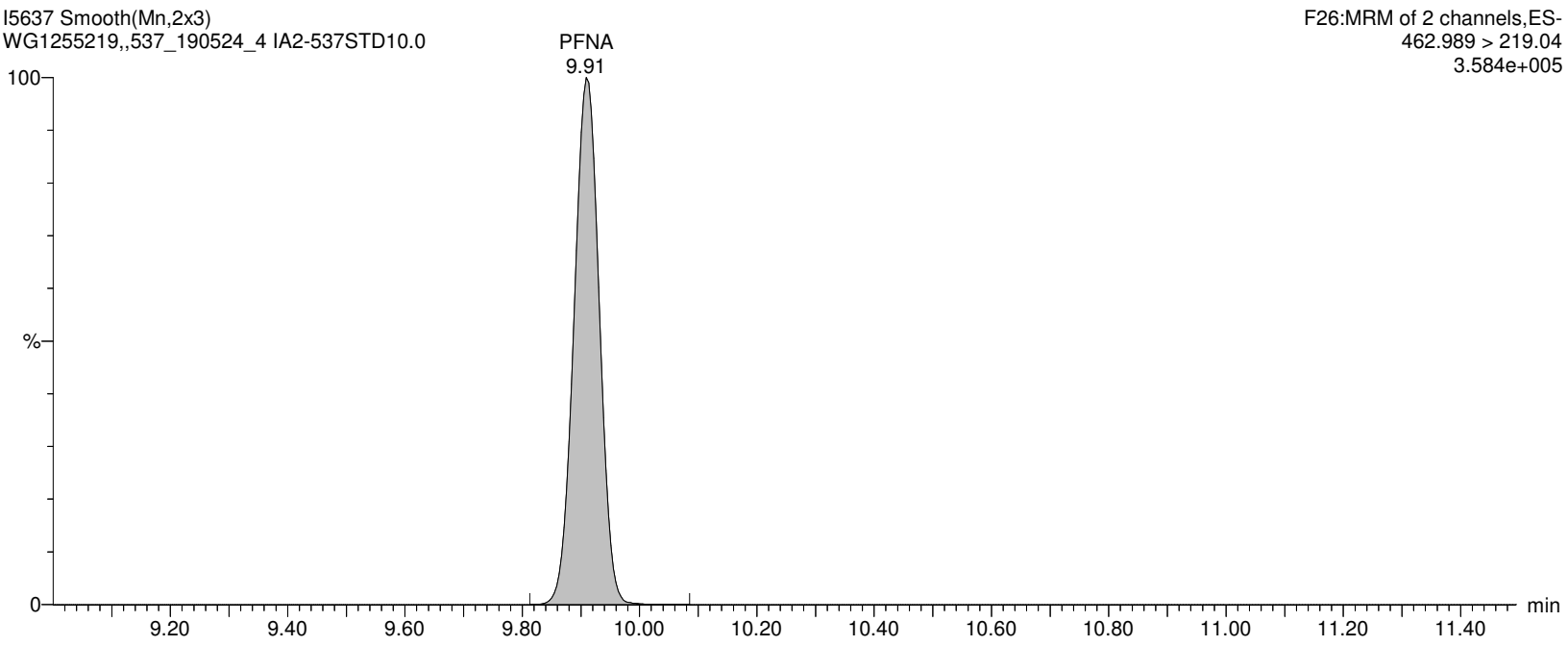
all concentration units in (ng/mL)

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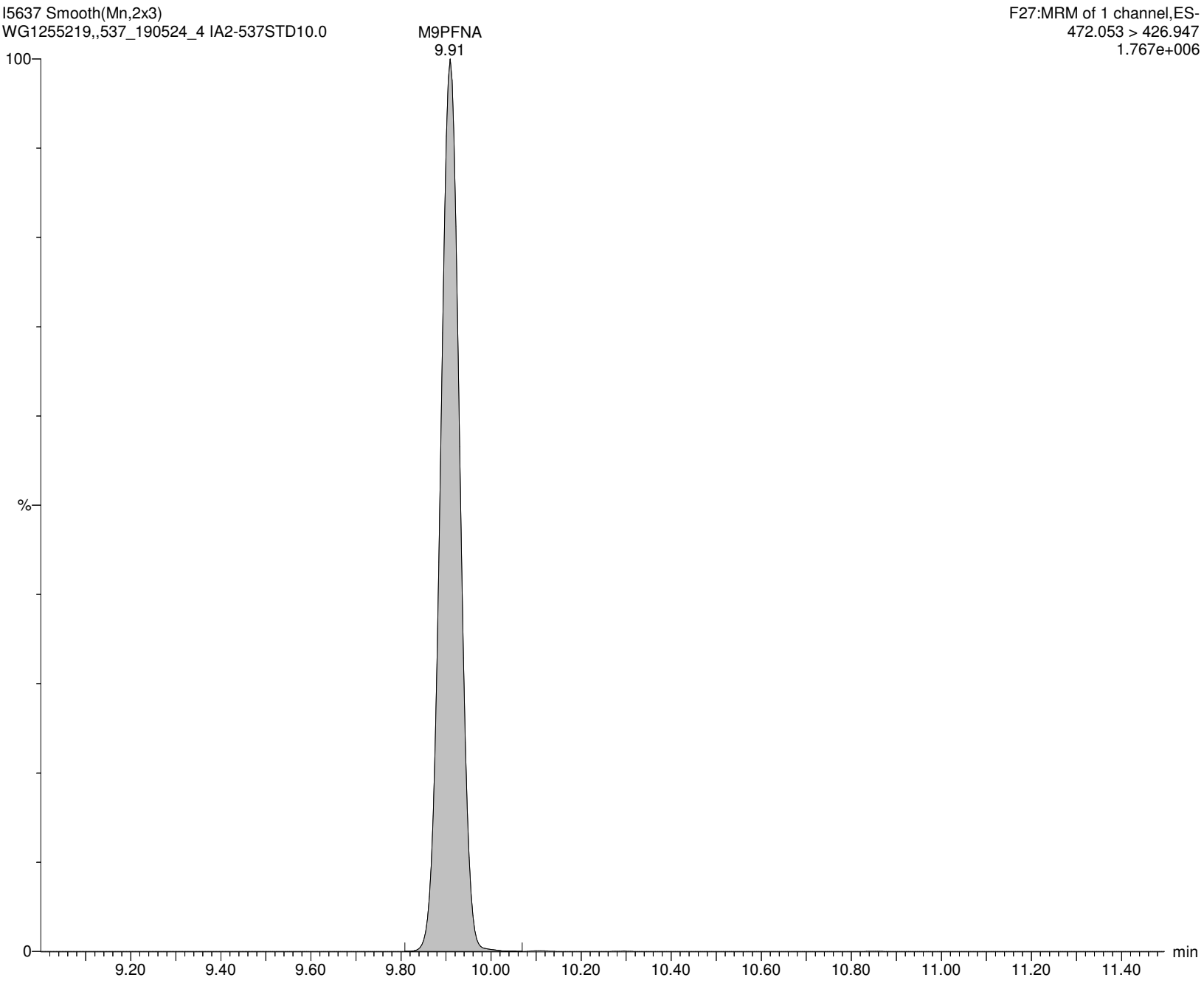


all concentration units in (ng/mL)

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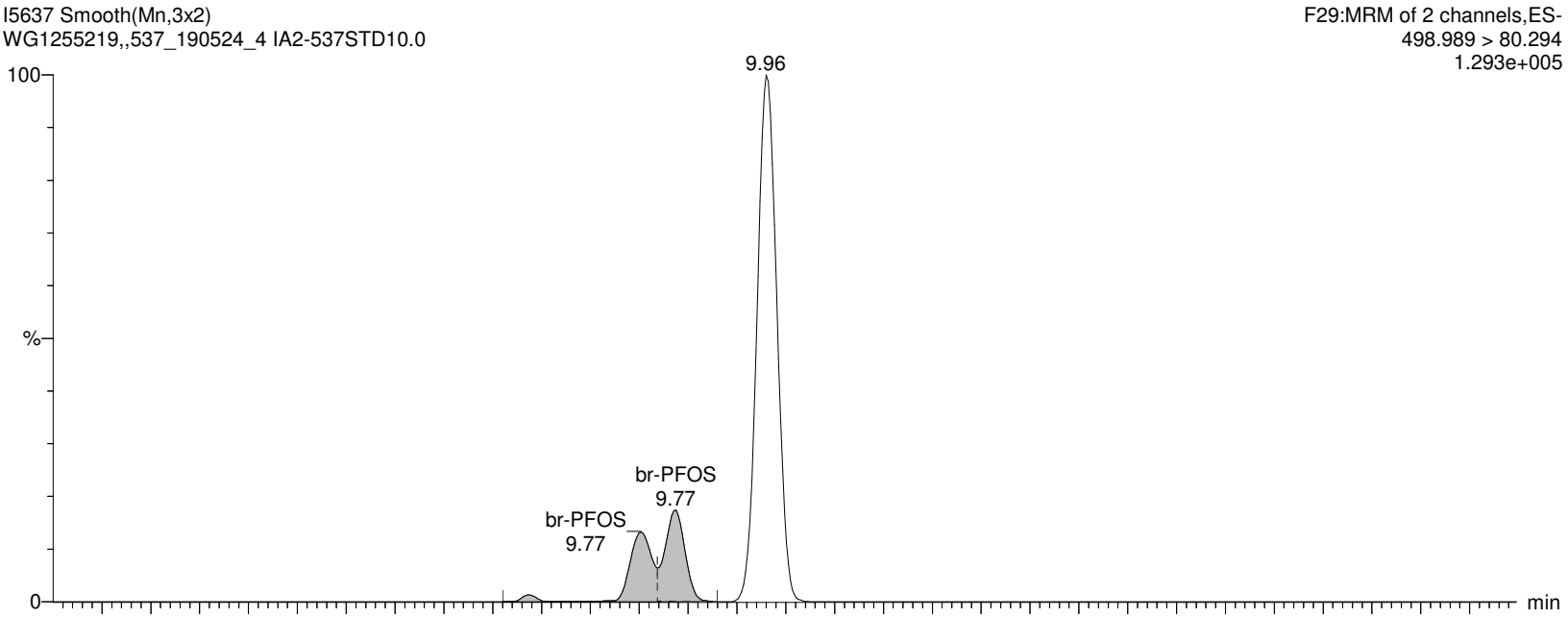


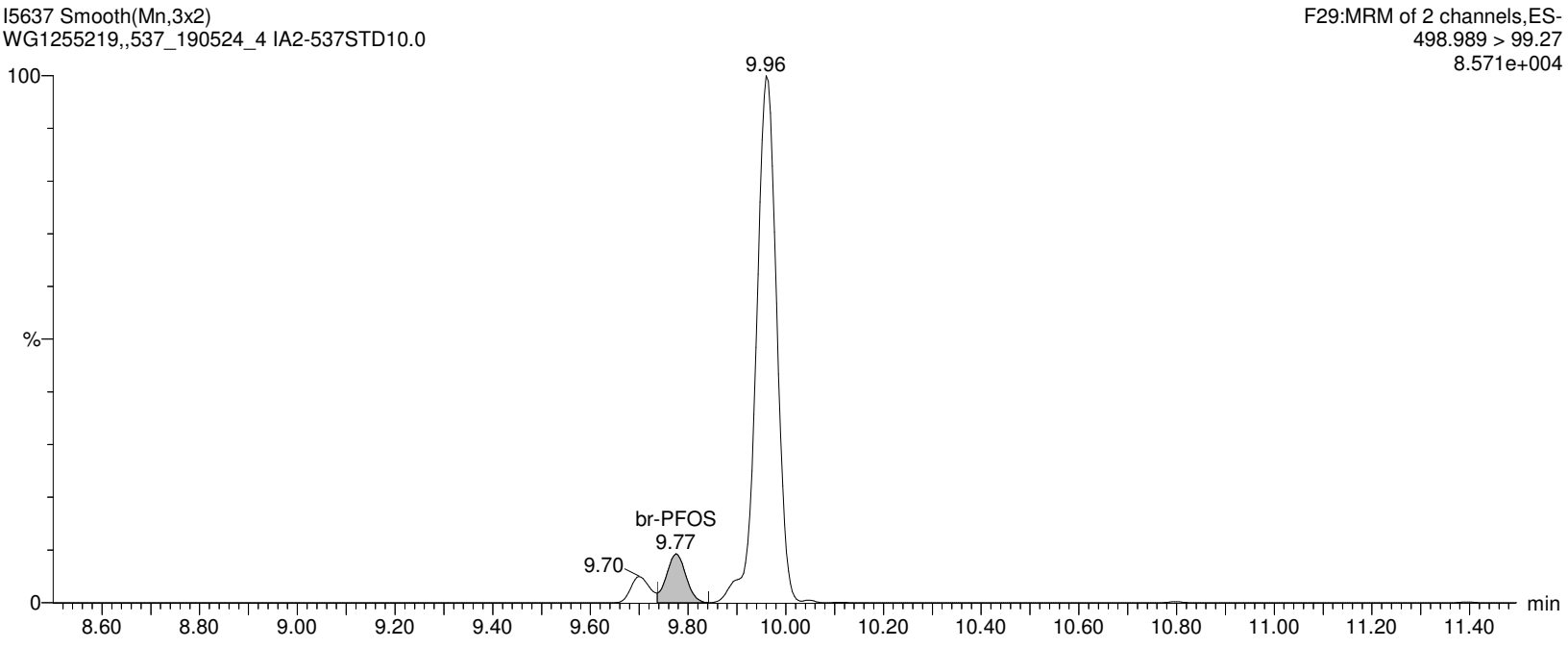
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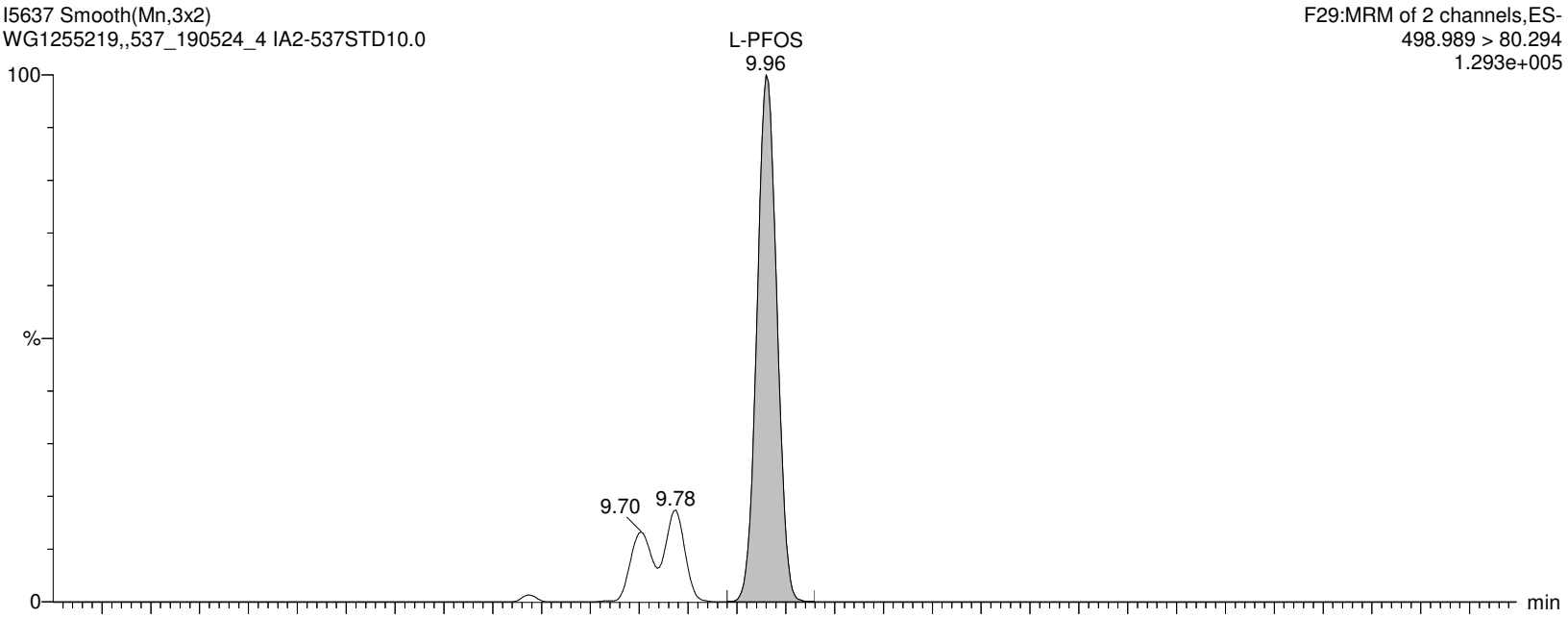


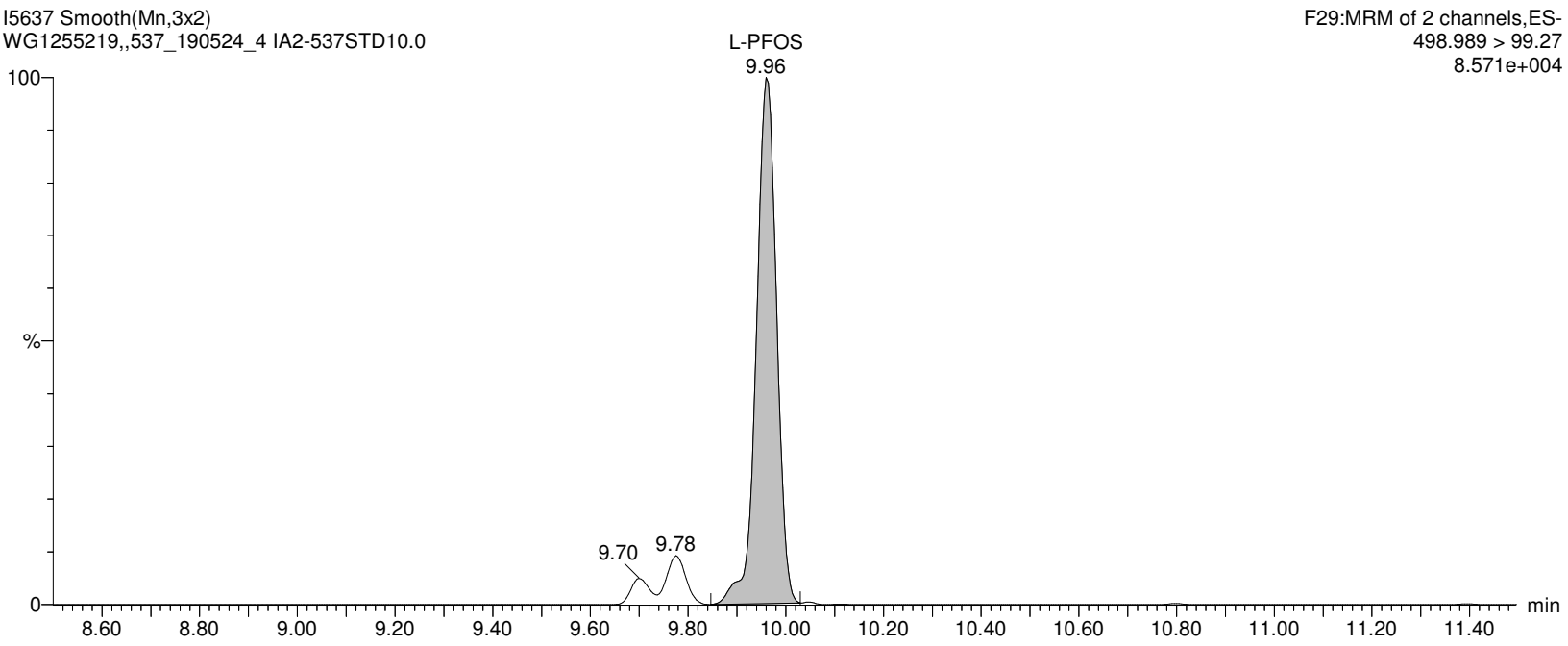
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L-PFOS



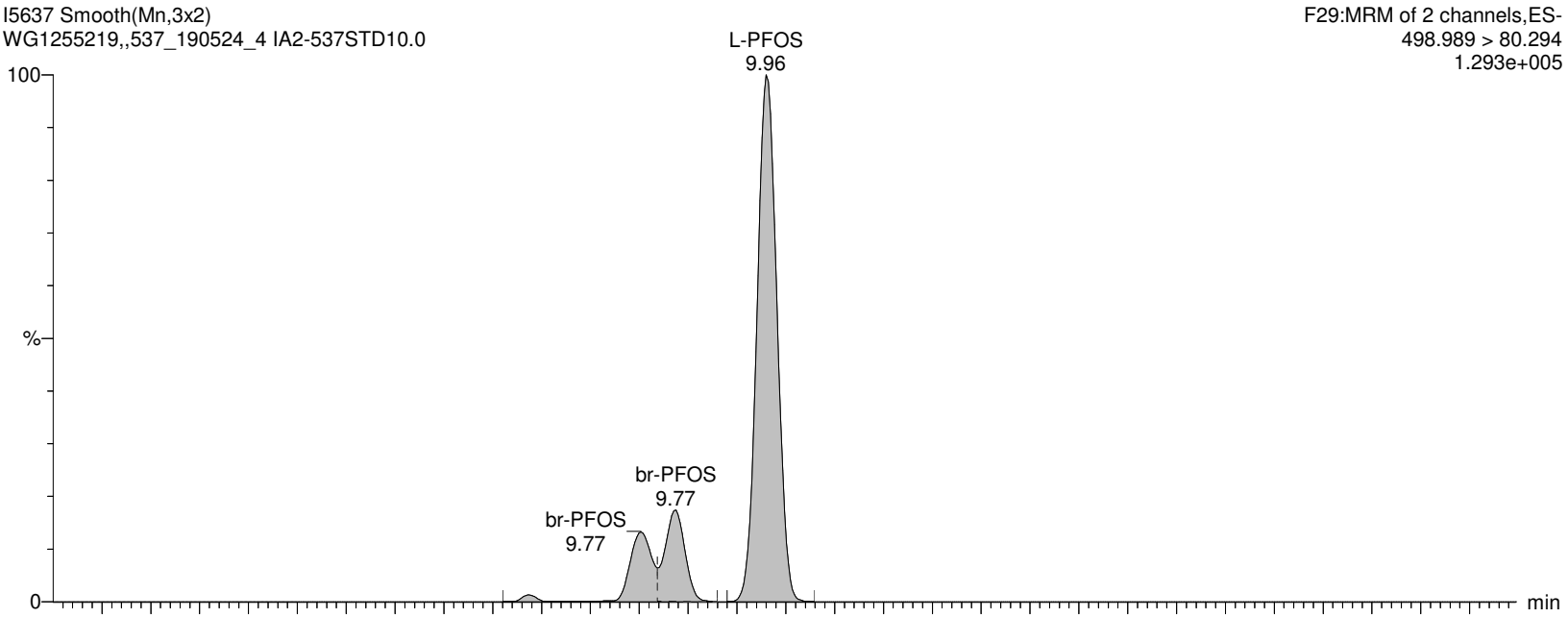


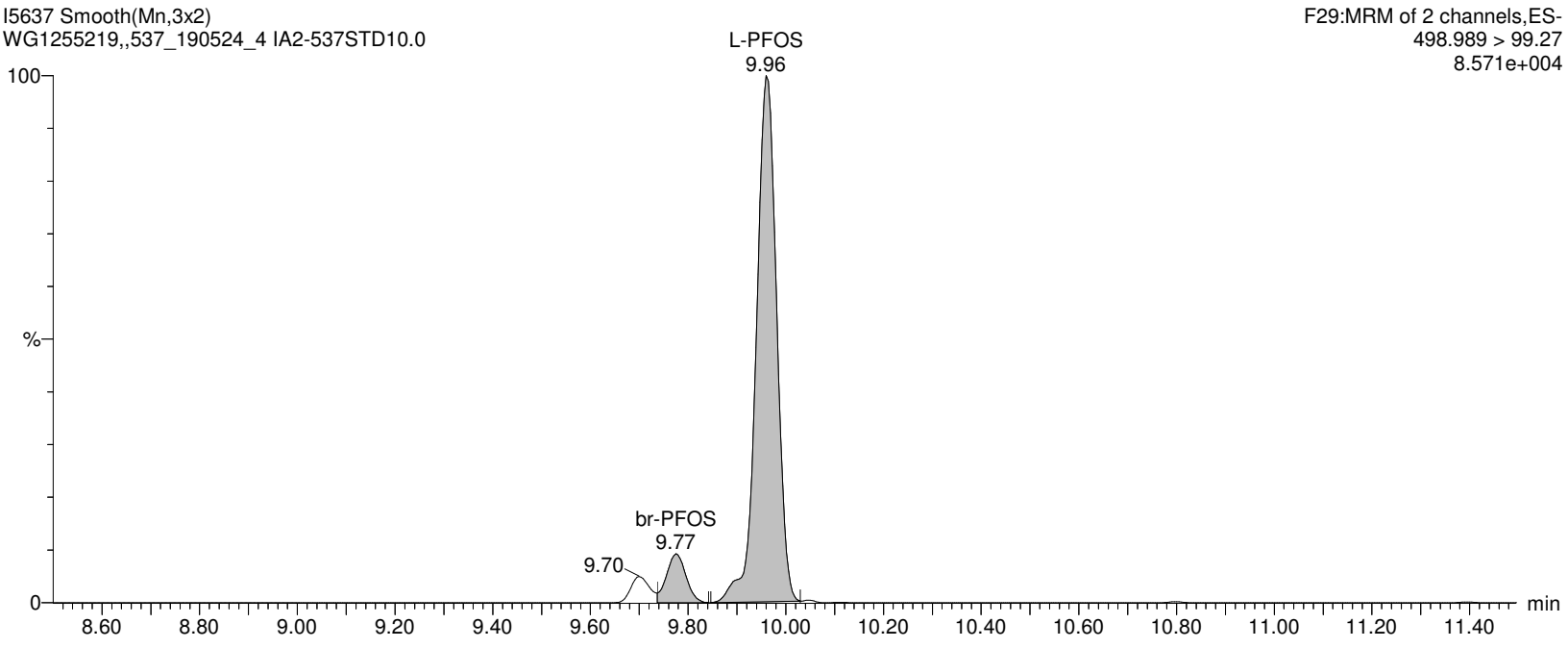
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:36 Eastern Daylight Time

Name: I5637
ID: IA2-537STD10.0
Date: 01-Jul-2019
Time: 18:47:03
Description: WG1255219,,537_190524_4
User: LCMS02:JW
Vial: 1:A,5
Instrument: XEVO-TQSmicro#QEB0050
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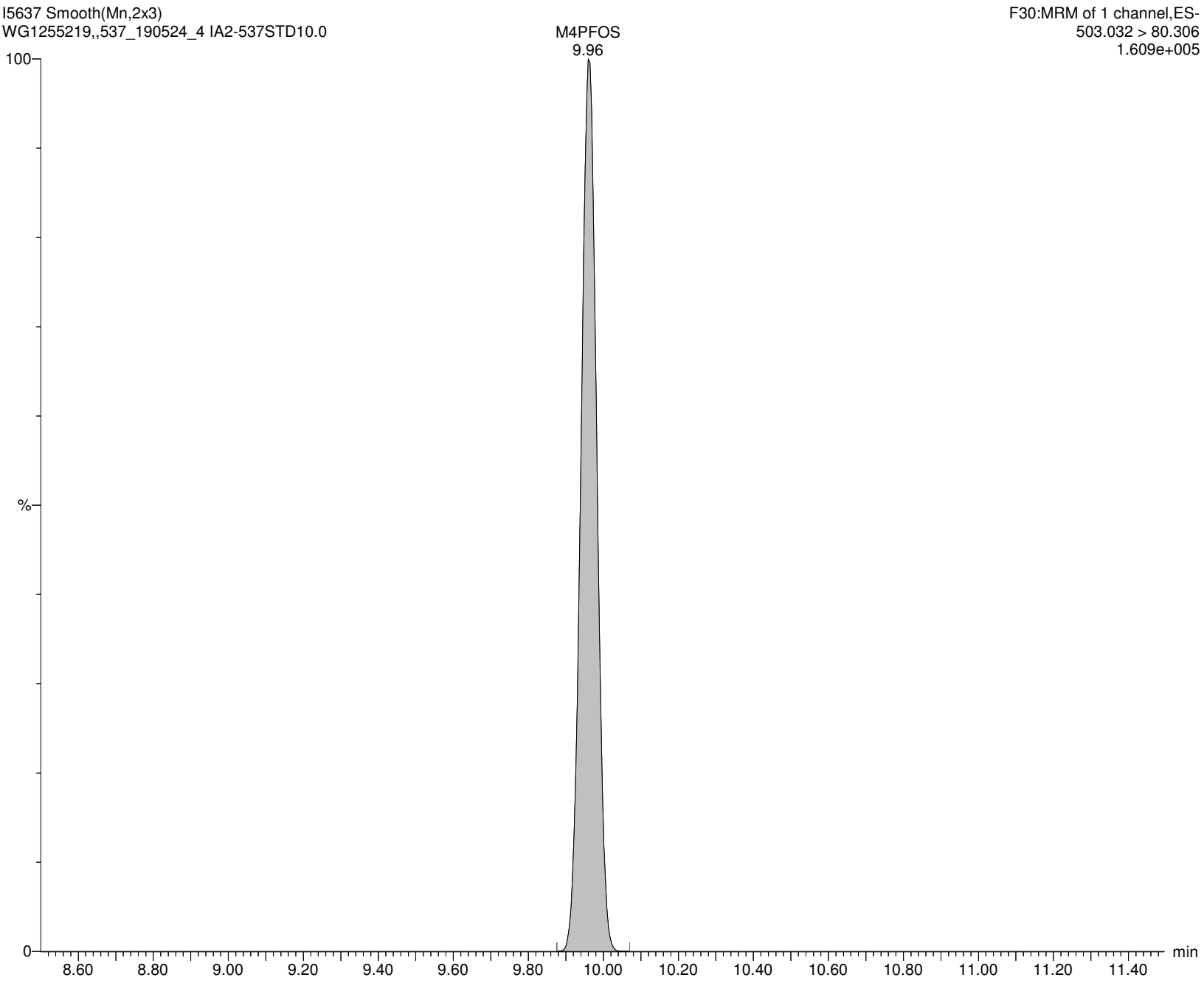


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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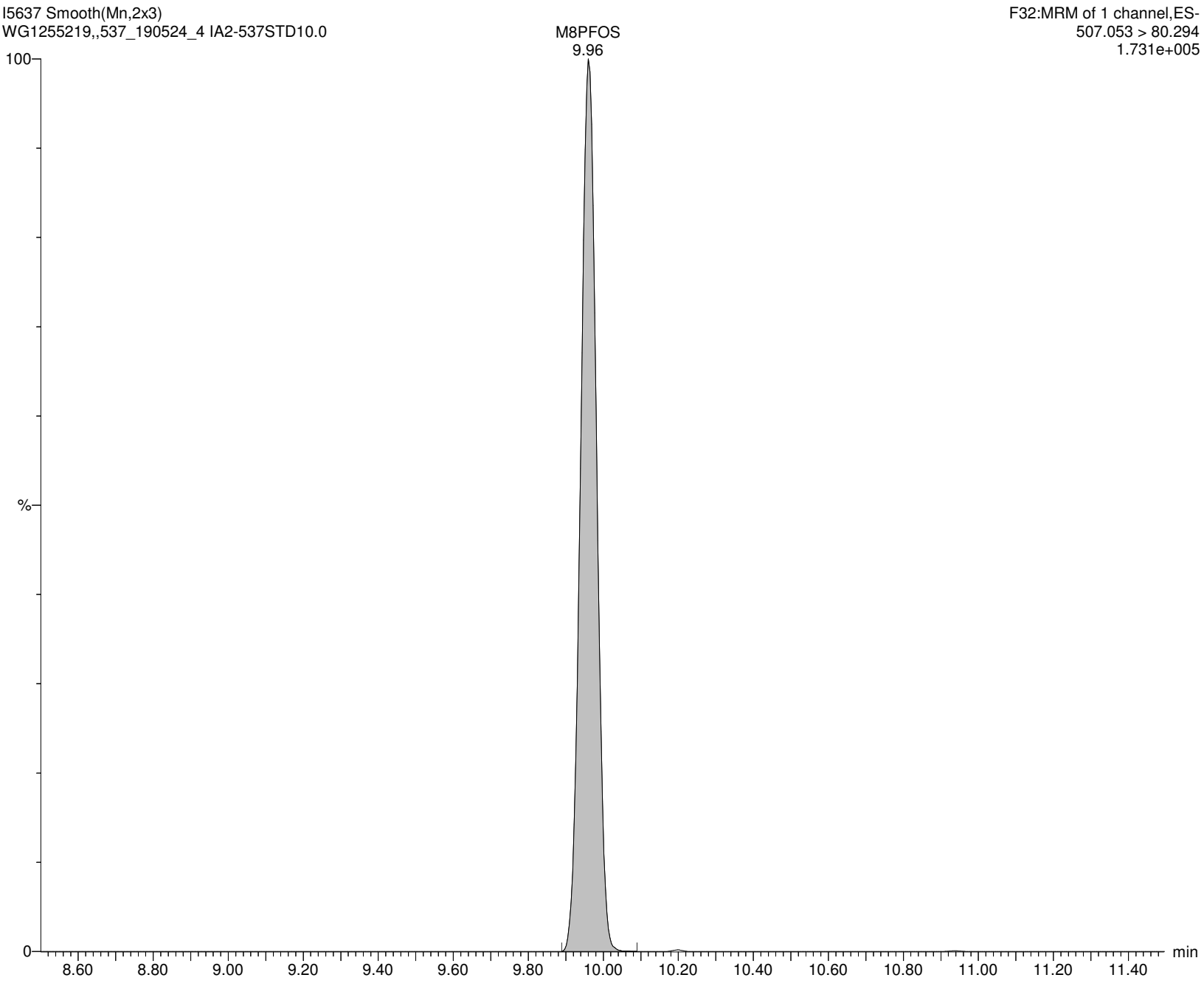


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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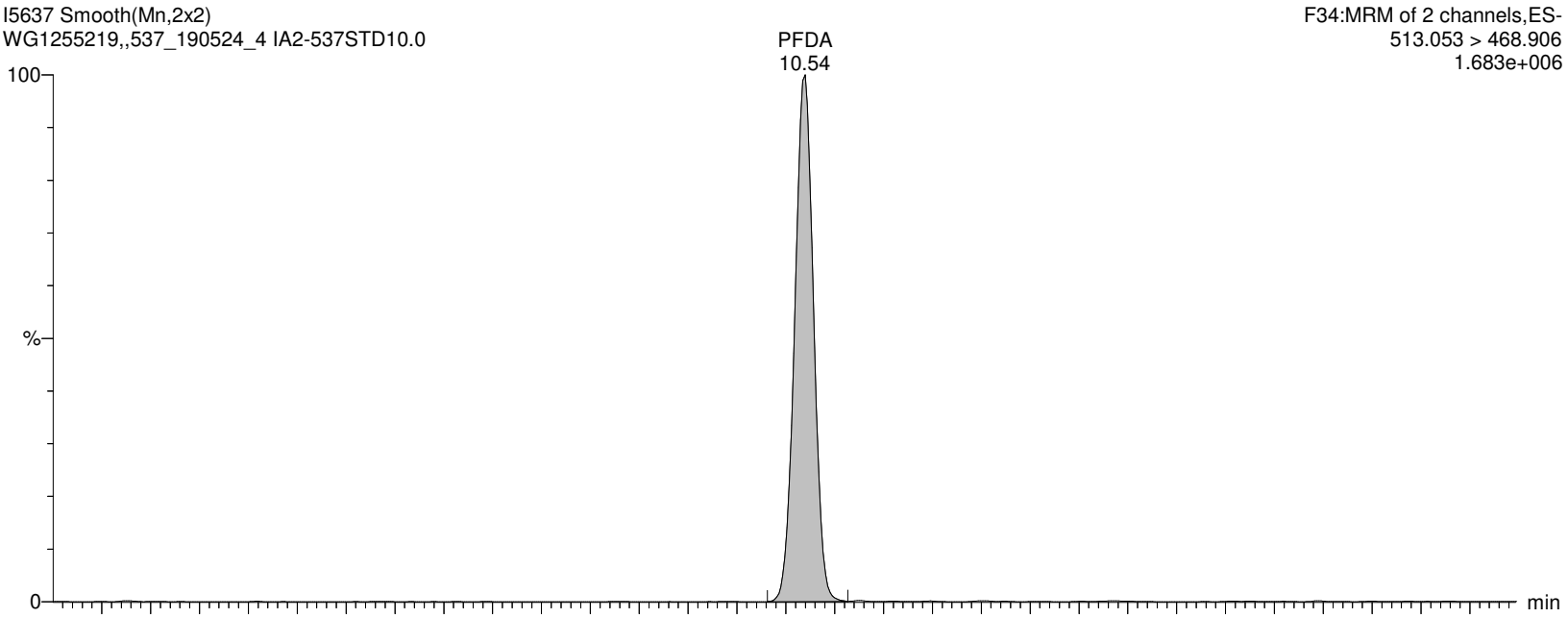


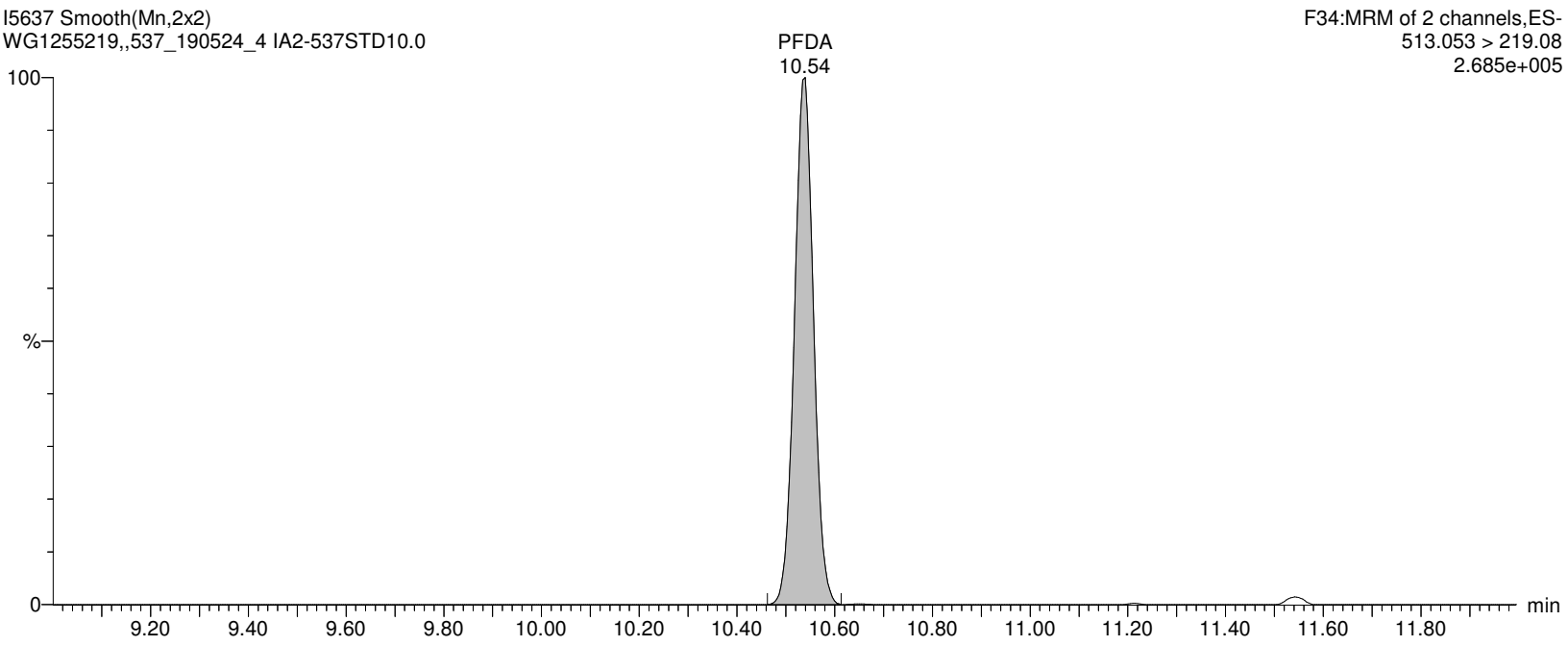
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
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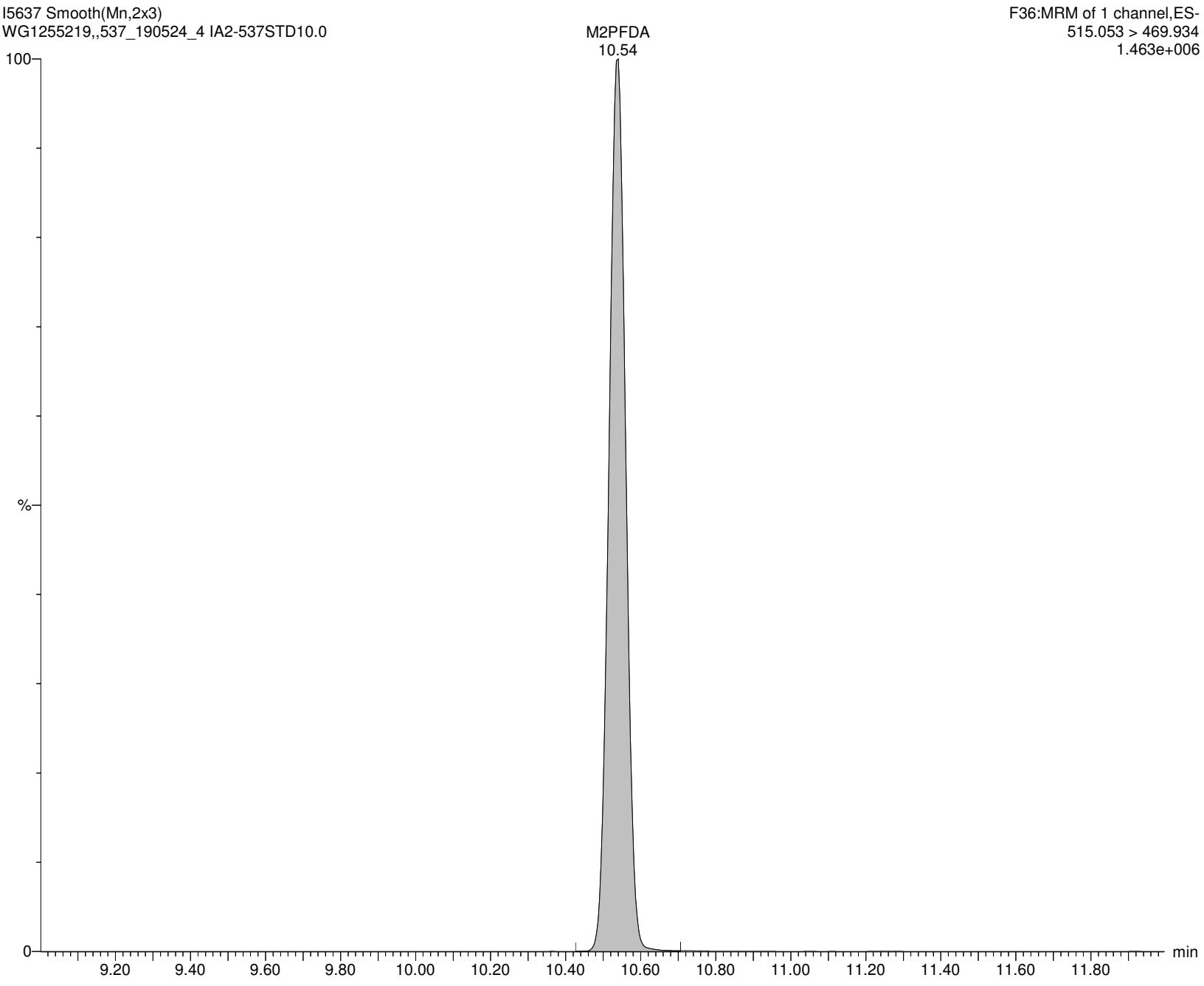


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
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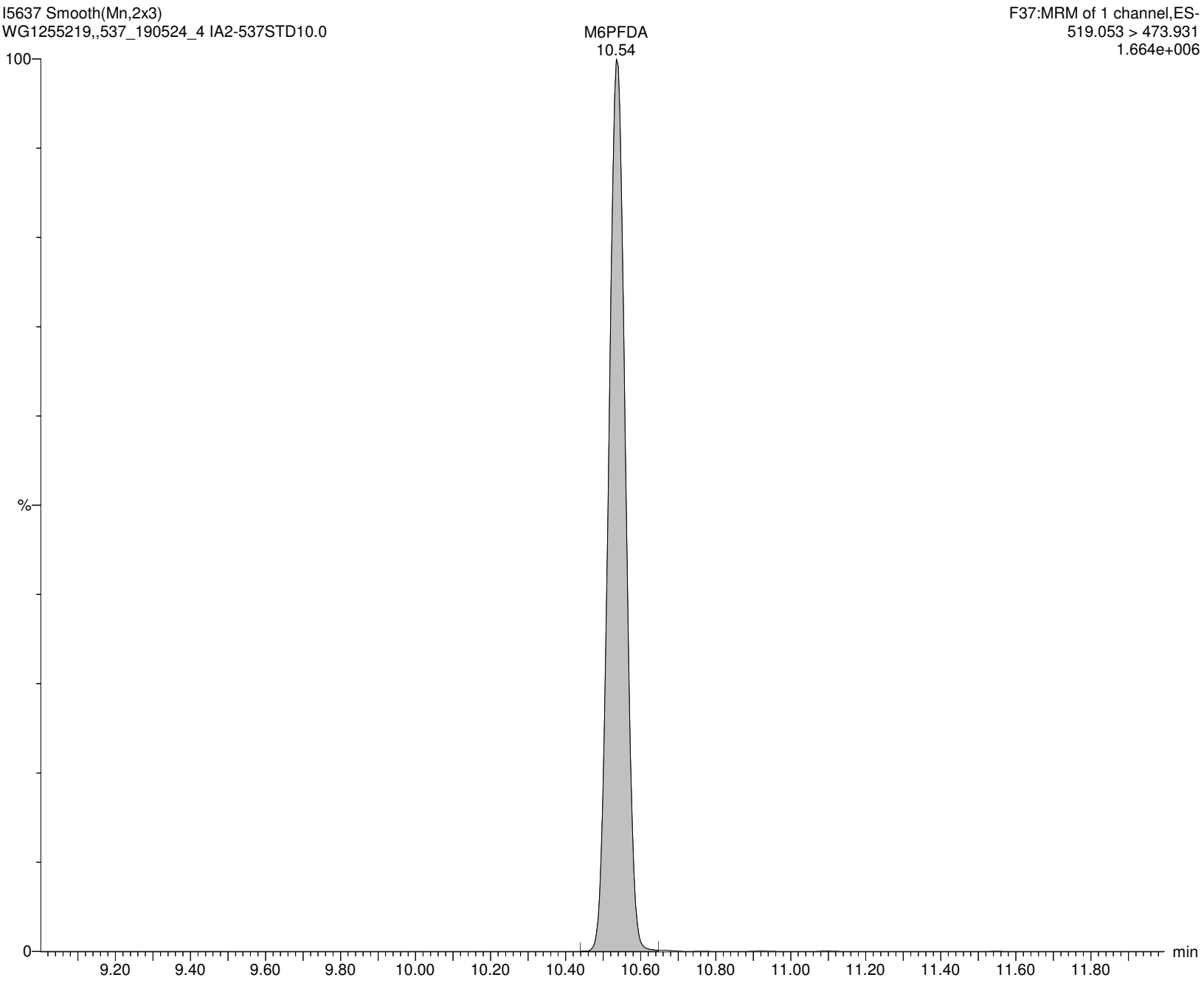


all concentration units in (ng/mL)

Alpha Analytical Inc.
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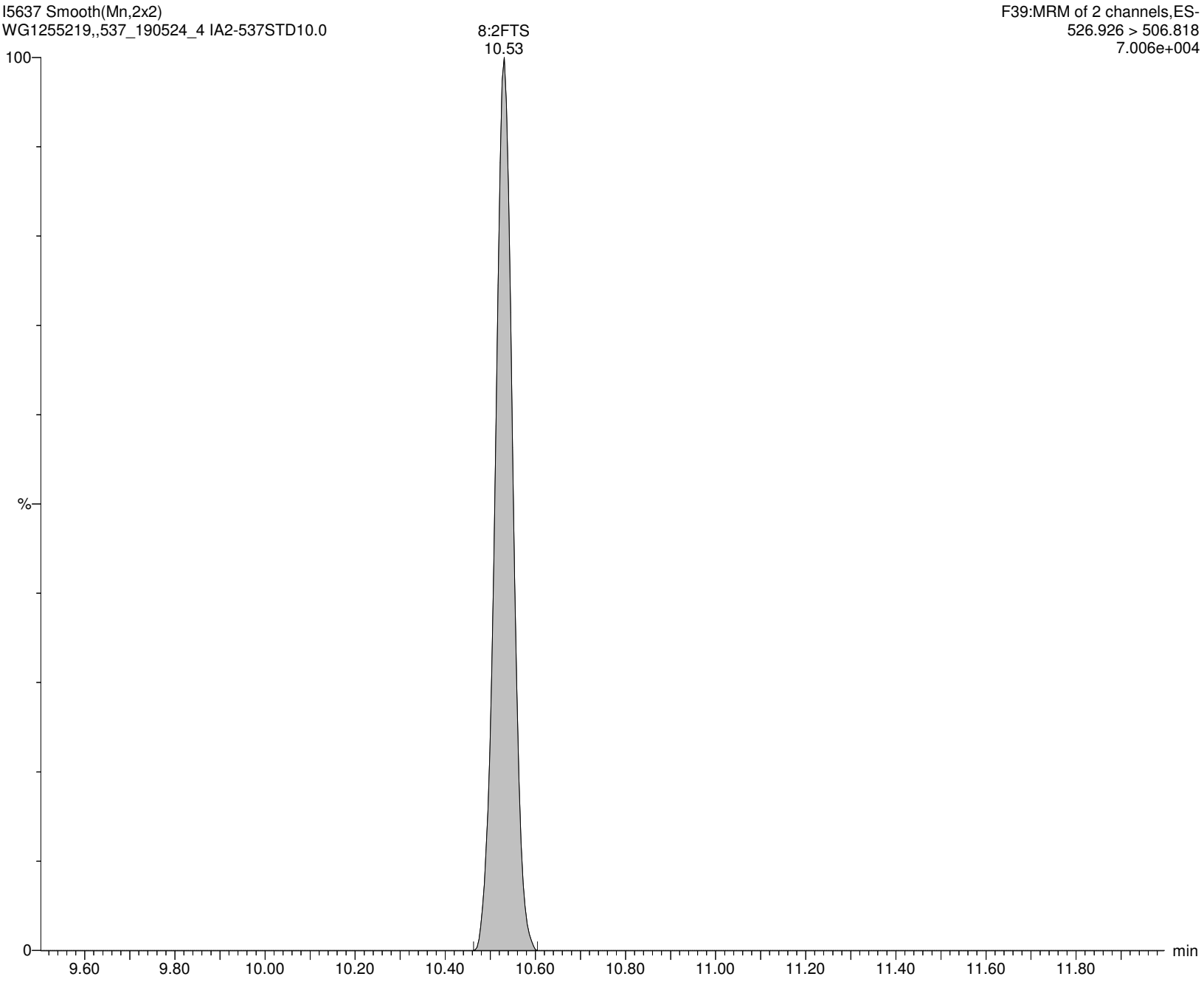


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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8:2FTS

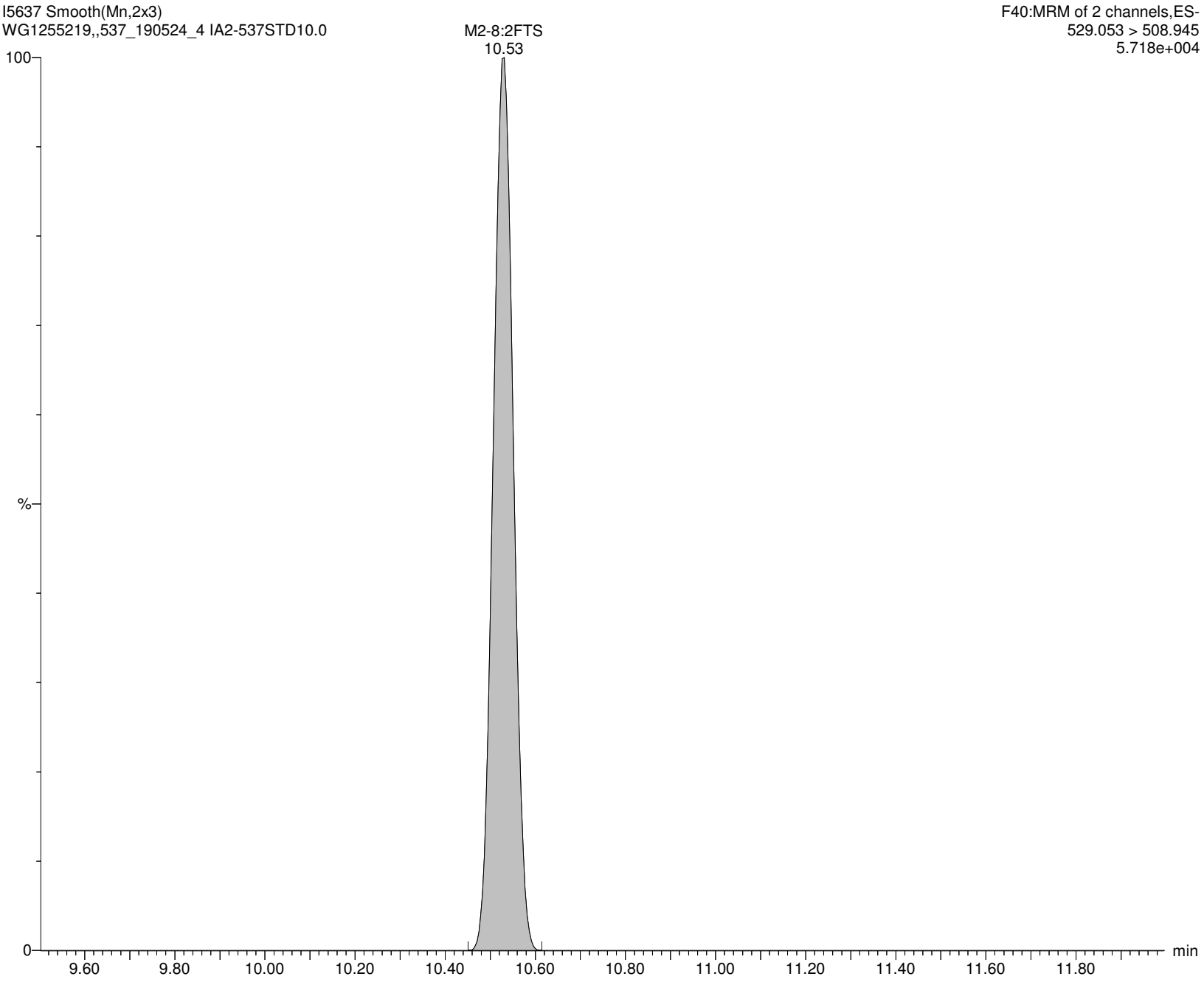


all concentration units in (ng/mL)

Alpha Analytical Inc.
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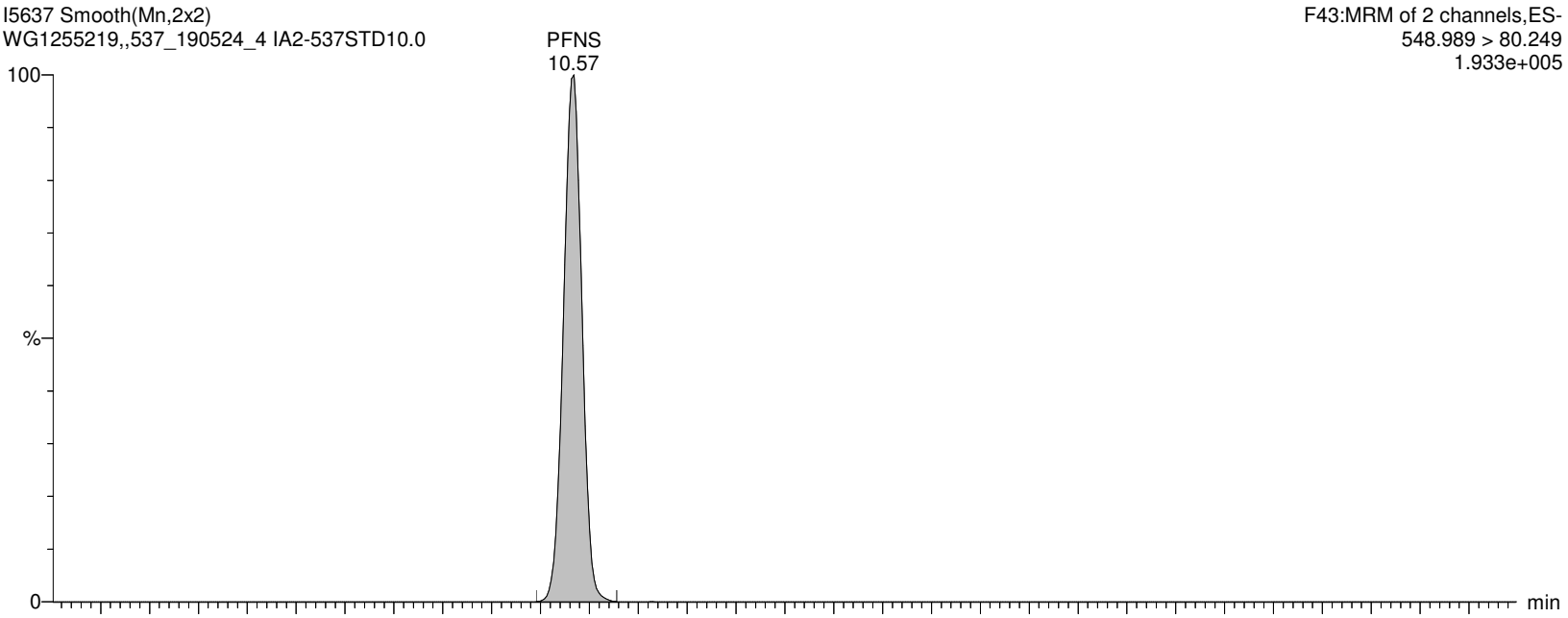


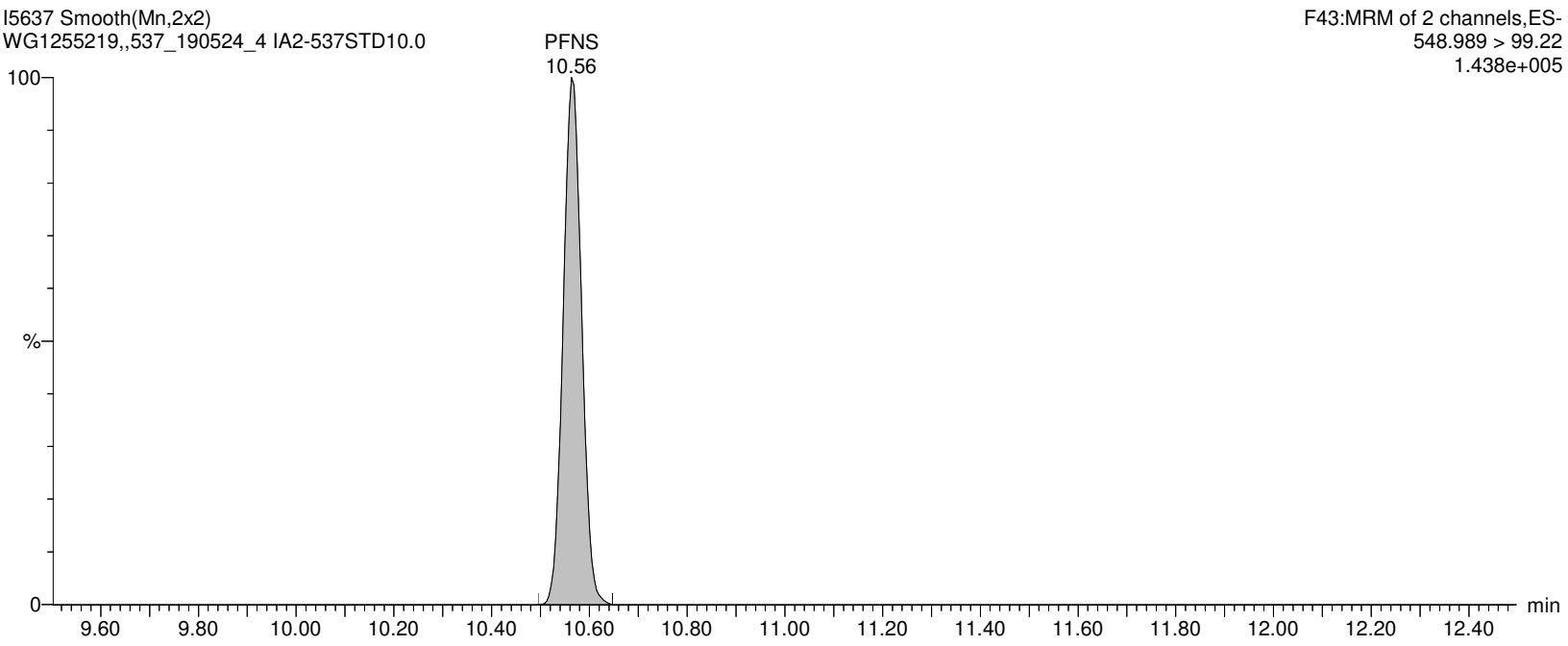
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Date: 01-Jul-2019
Time: 18:47:03
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Instrument: XEVO-TQSmicro#QEB0050
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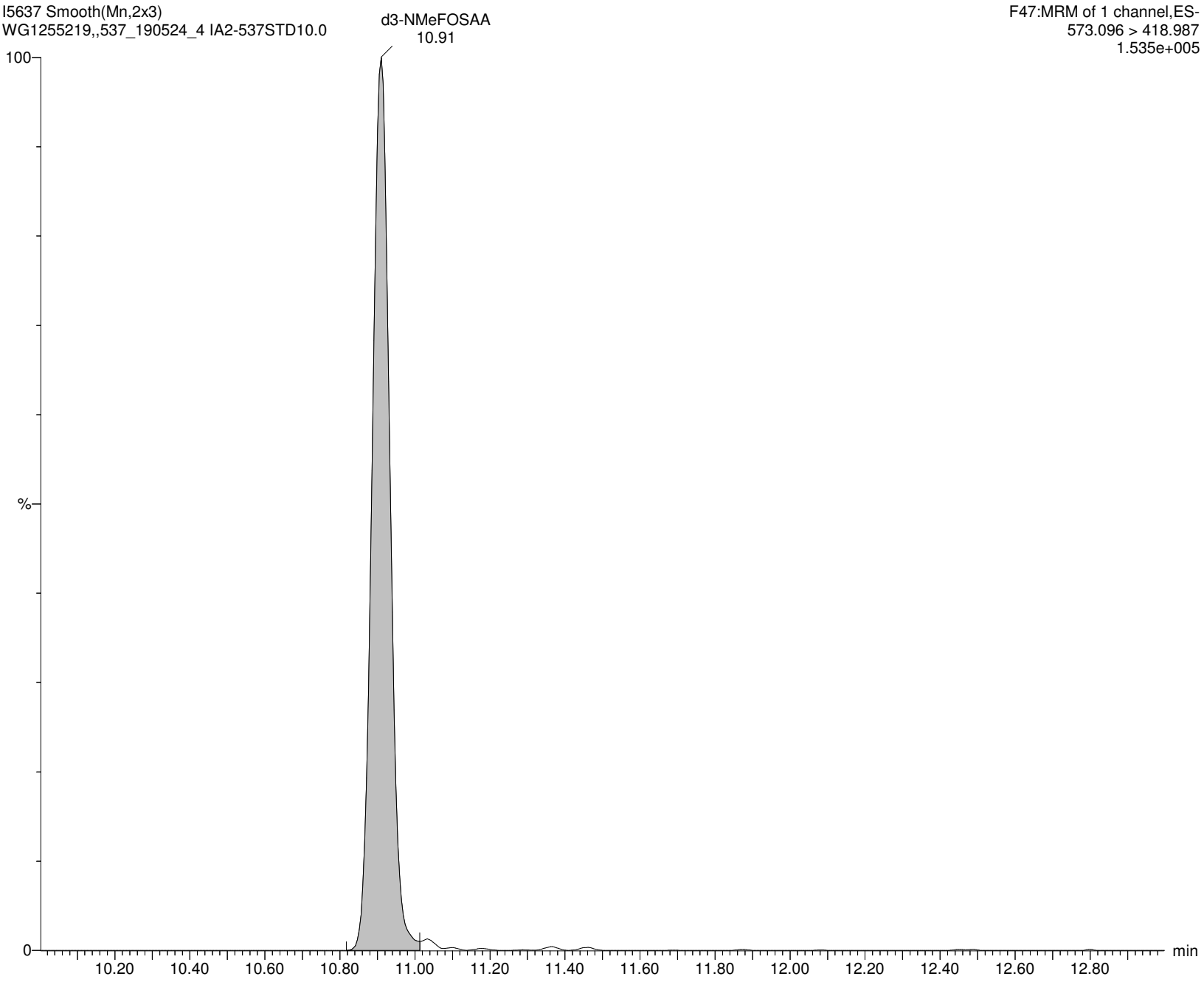


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Name: I5637
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Date: 01-Jul-2019
Time: 18:47:03
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d3-NMeFOSAA

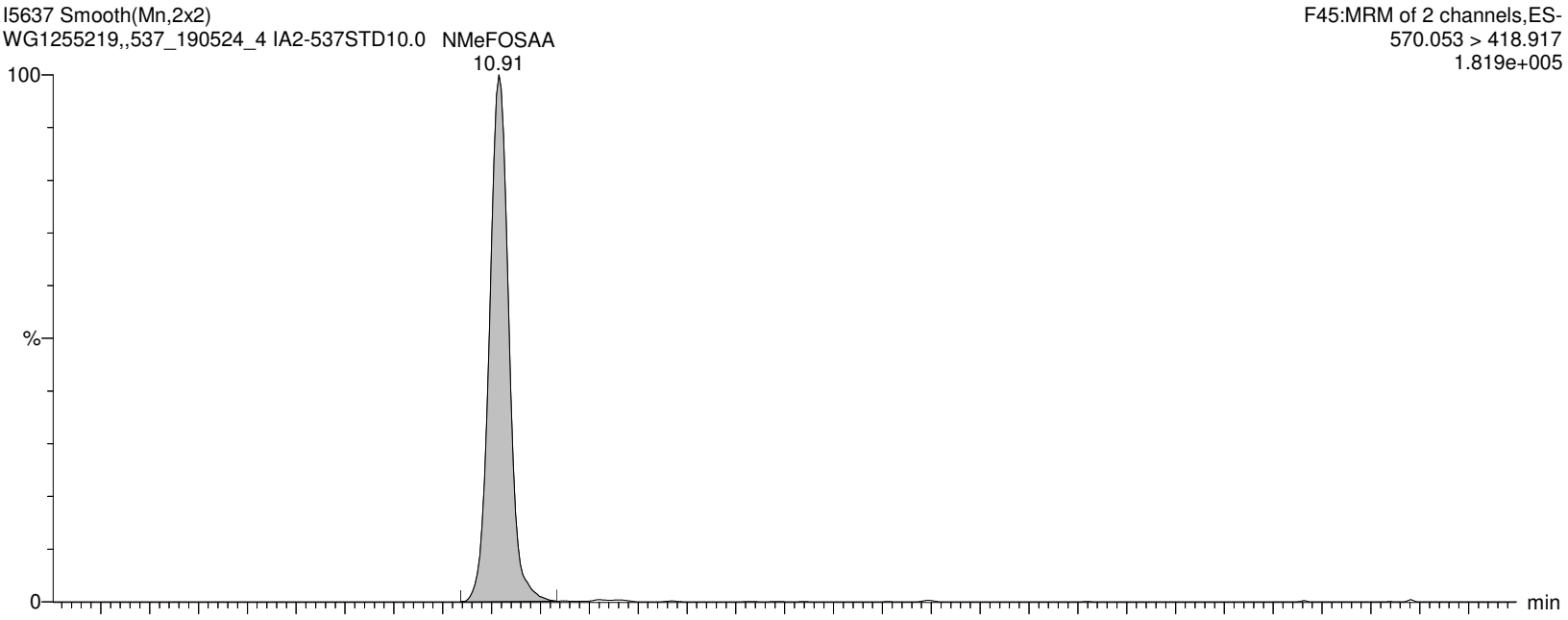


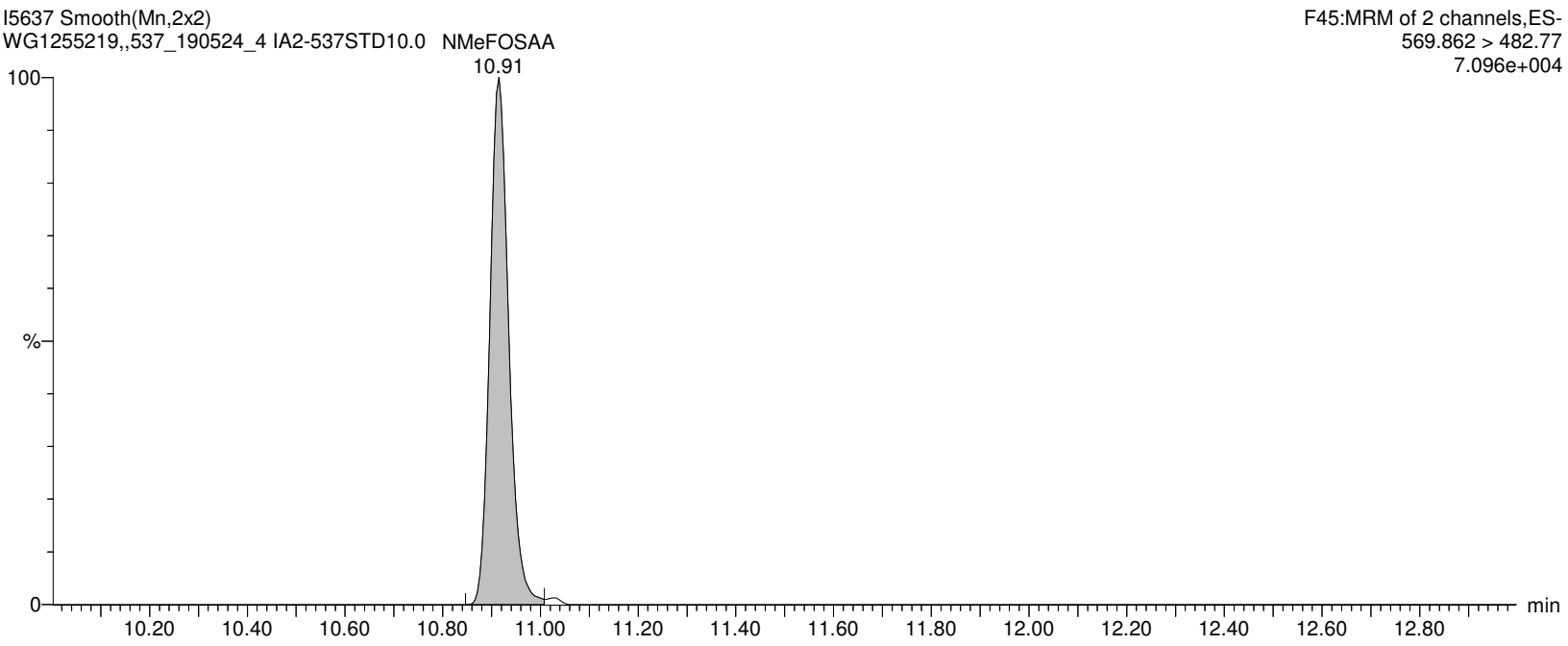
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
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NMeFOSAA



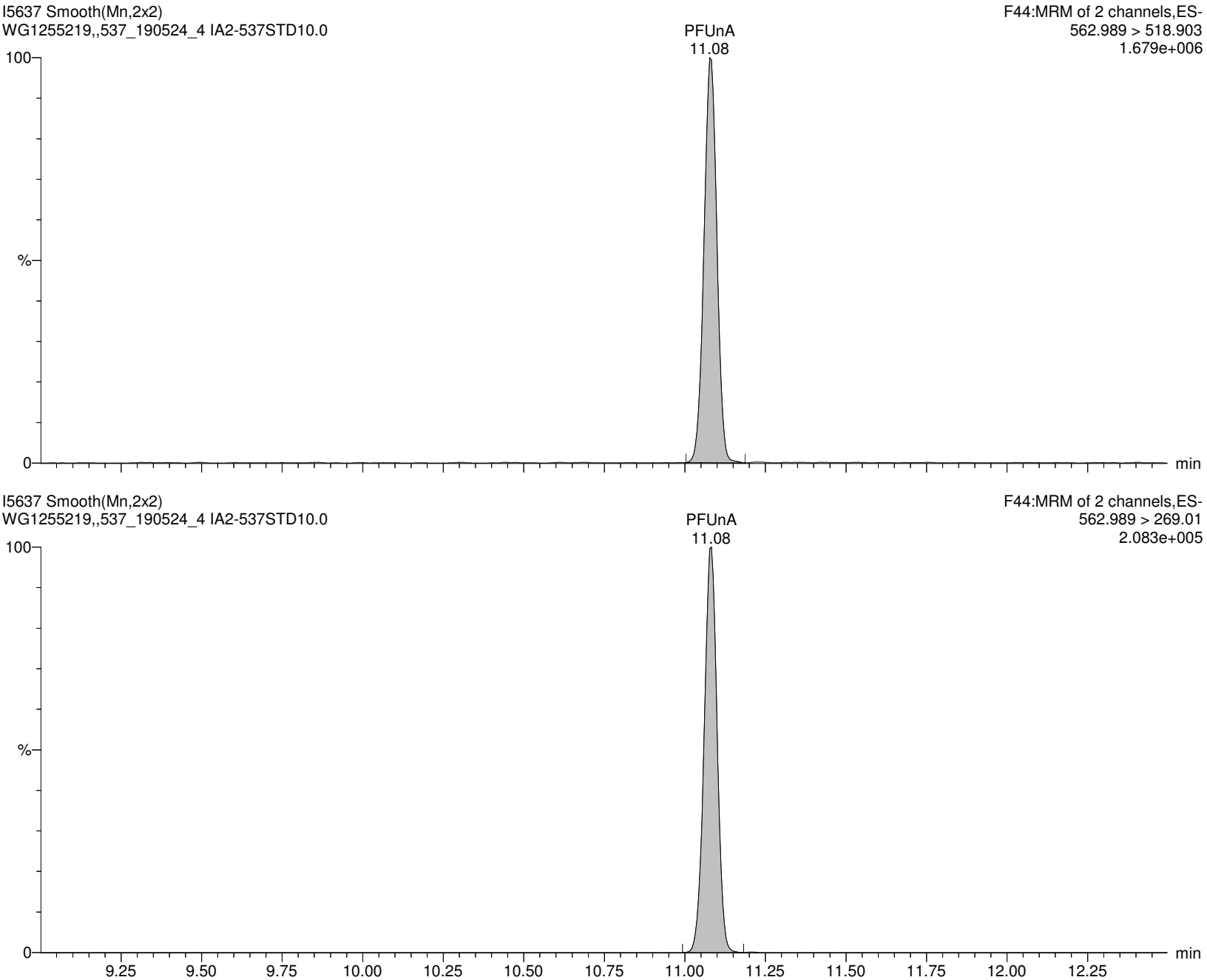


all concentration units in (ng/mL)

Alpha Analytical Inc.
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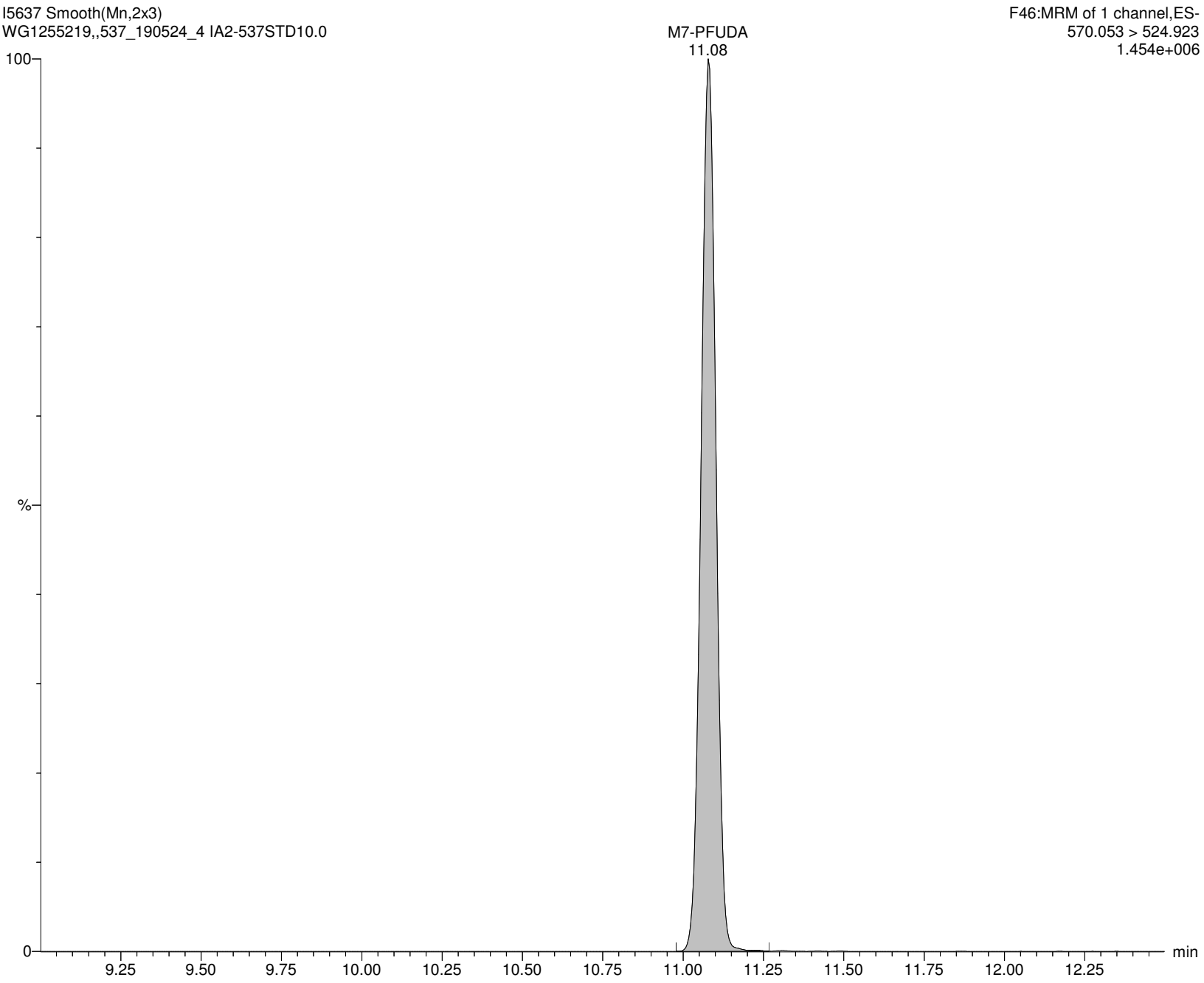


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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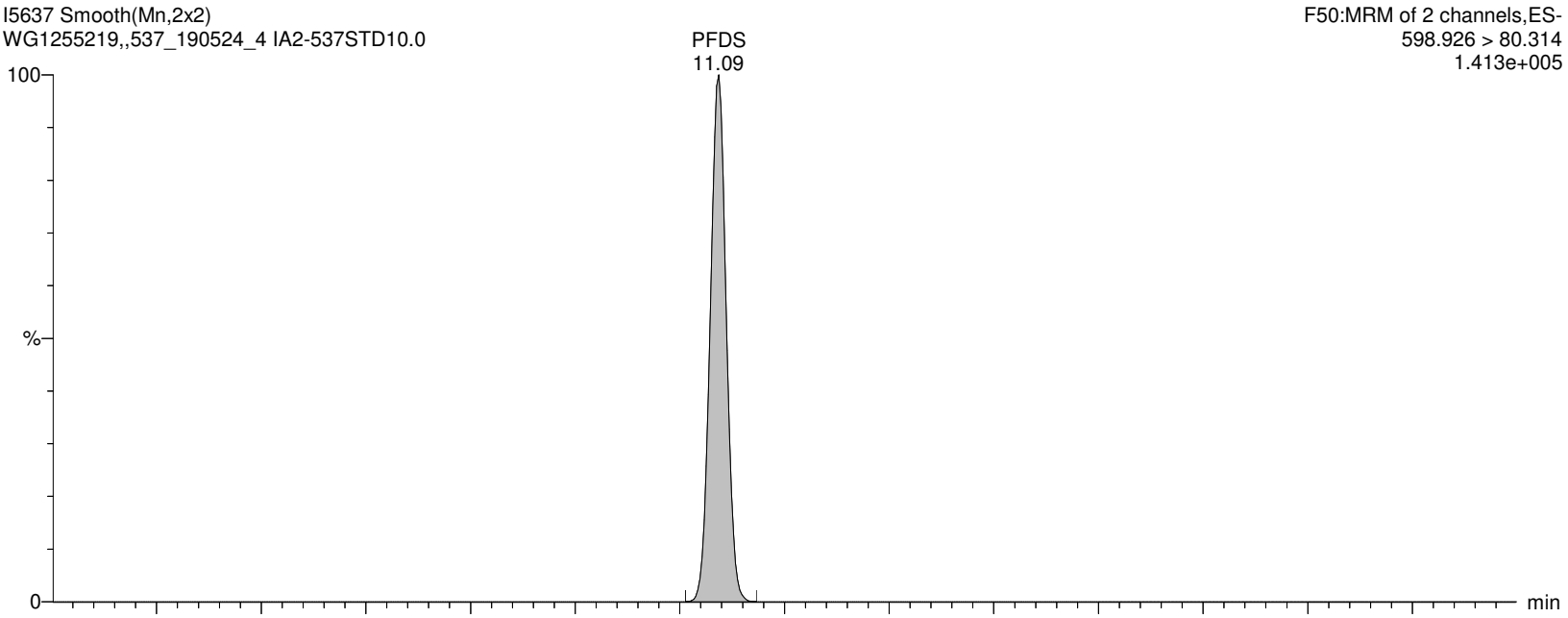


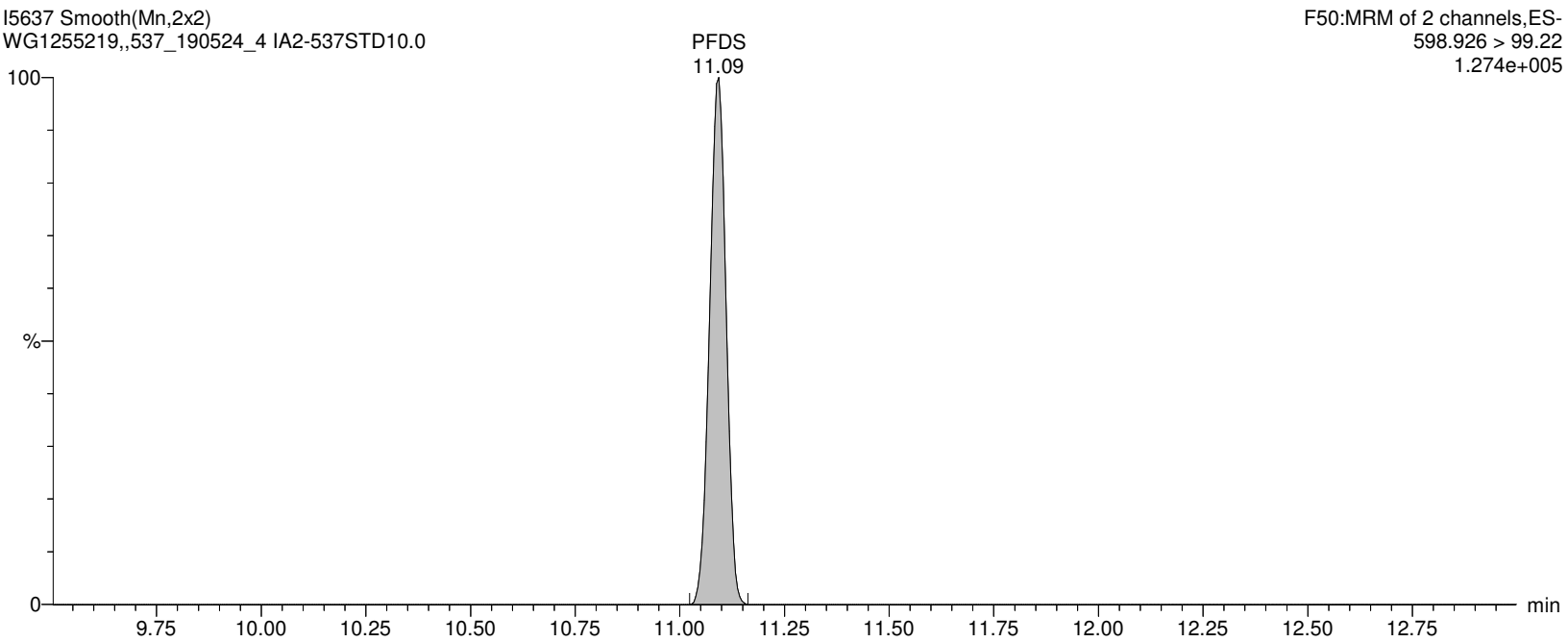
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
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PFDS



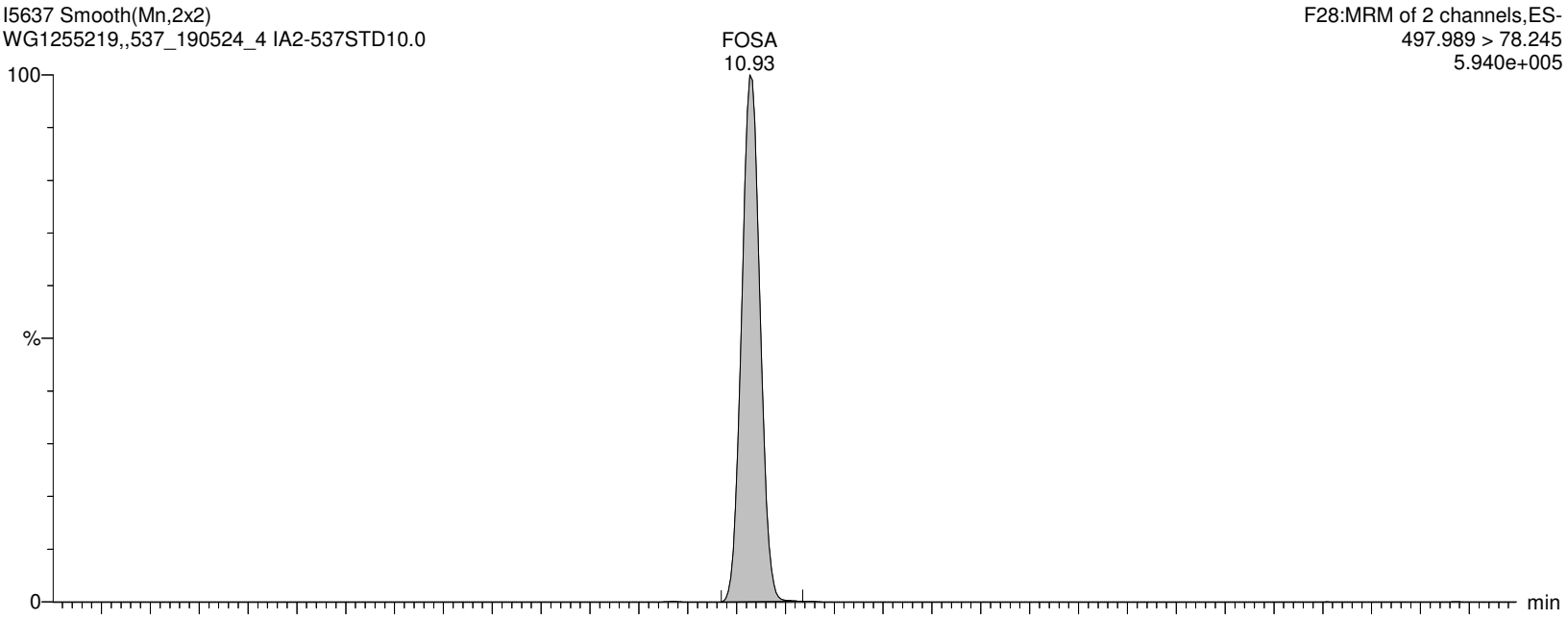


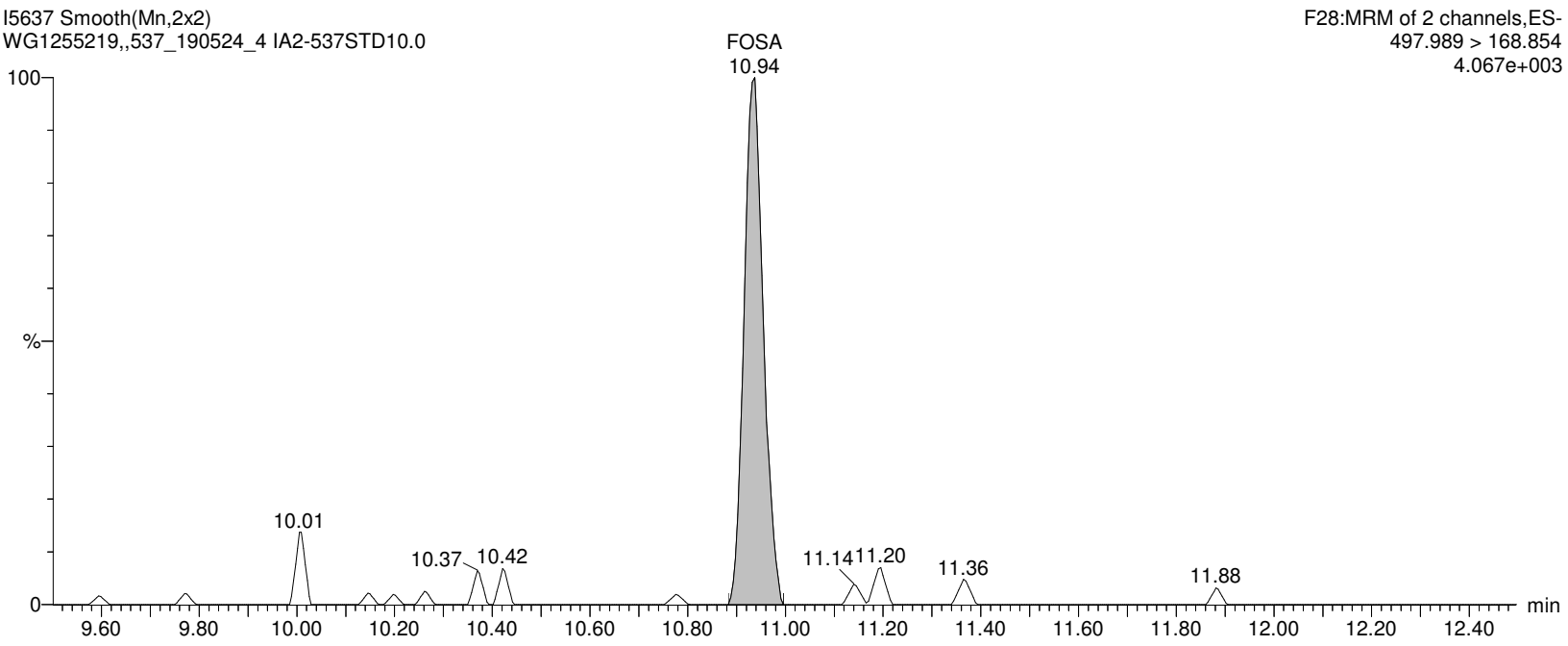
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
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FOSA



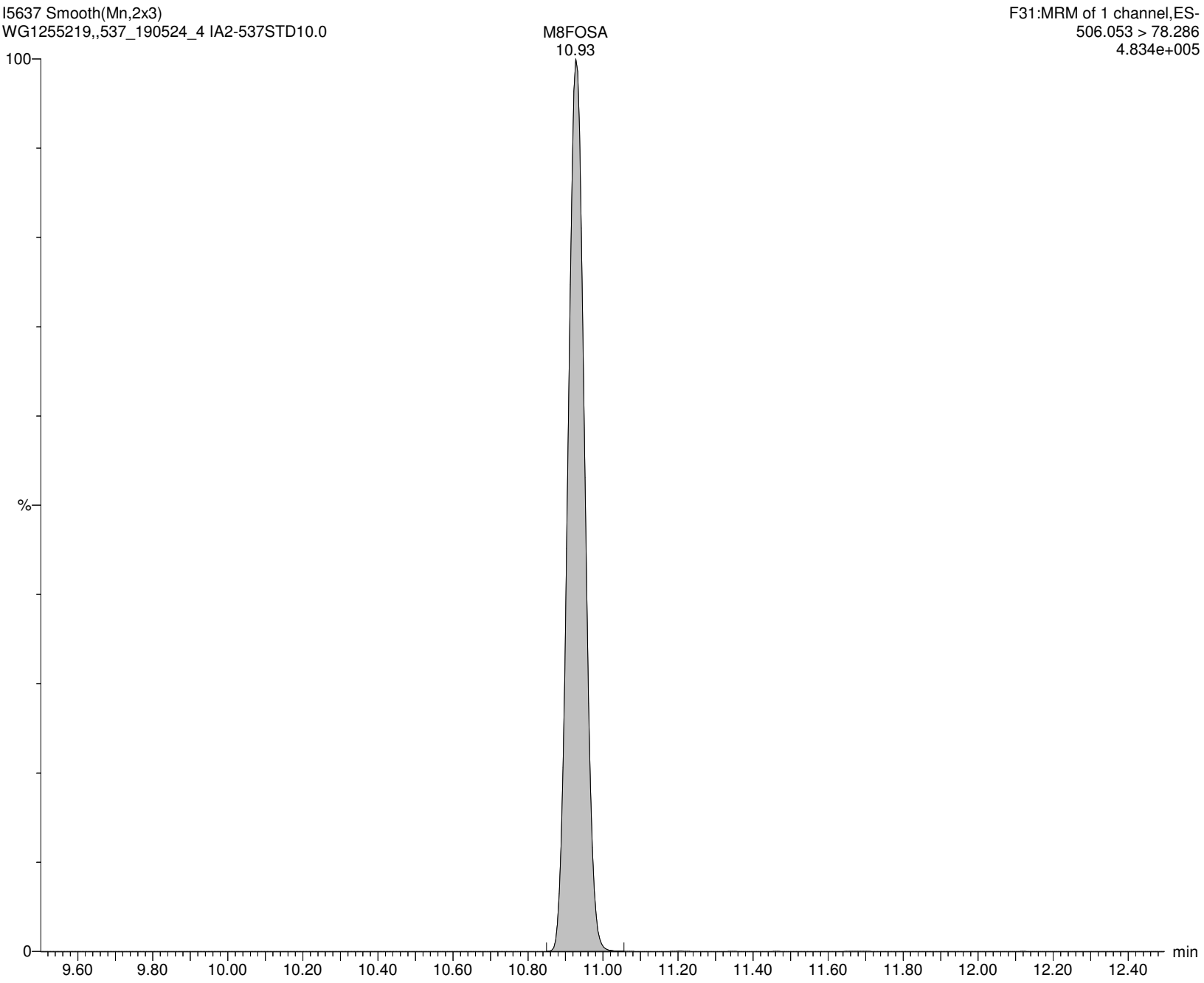


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
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M8FOSA

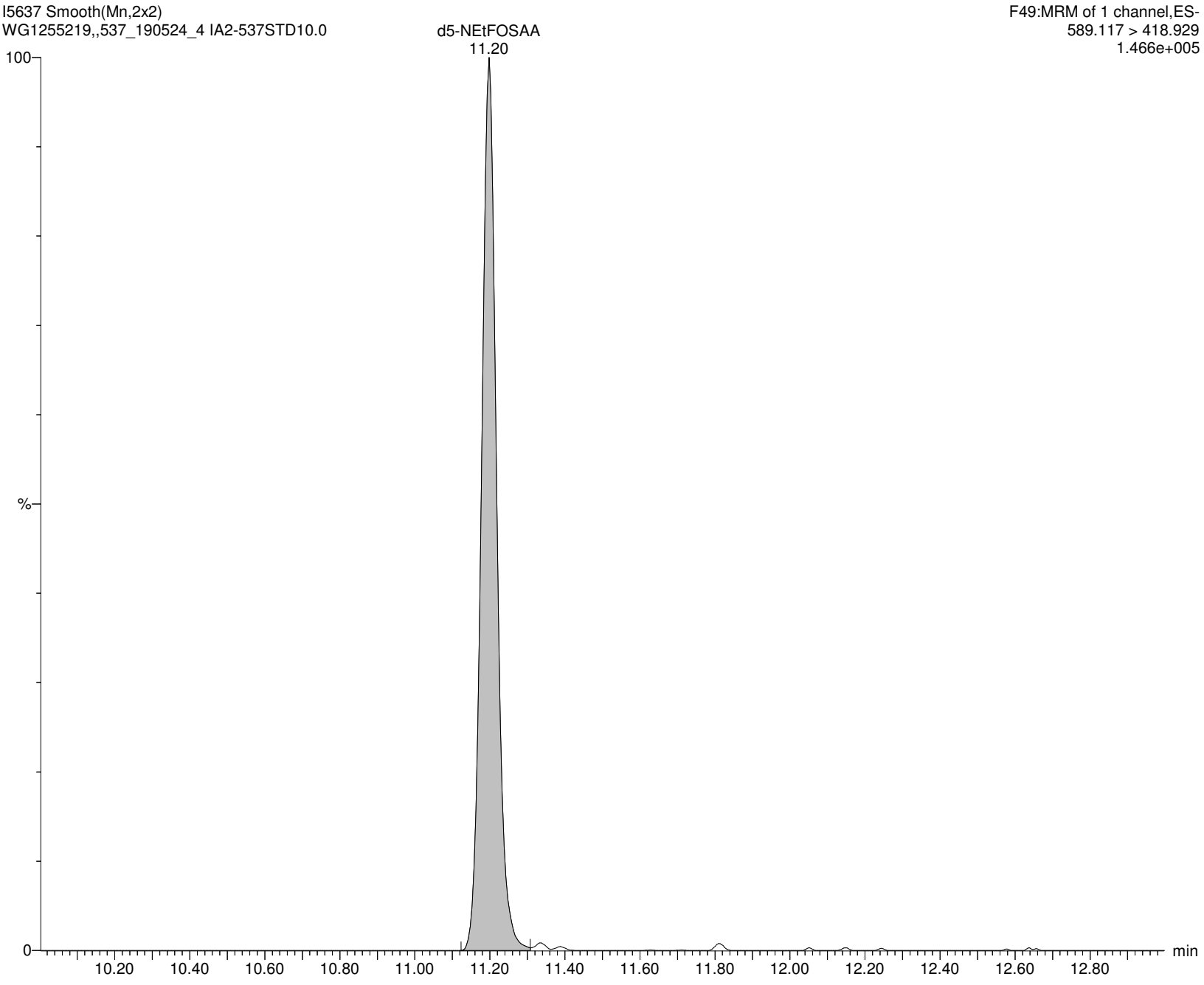


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:36 Eastern Daylight Time

Name: I5637
ID: IA2-537STD10.0
Date: 01-Jul-2019
Time: 18:47:03
Description: WG1255219,,537_190524_4
User: LCMS02:JW
Vial: 1:A,5
Instrument: XEVO-TQSmicro#QEB0050
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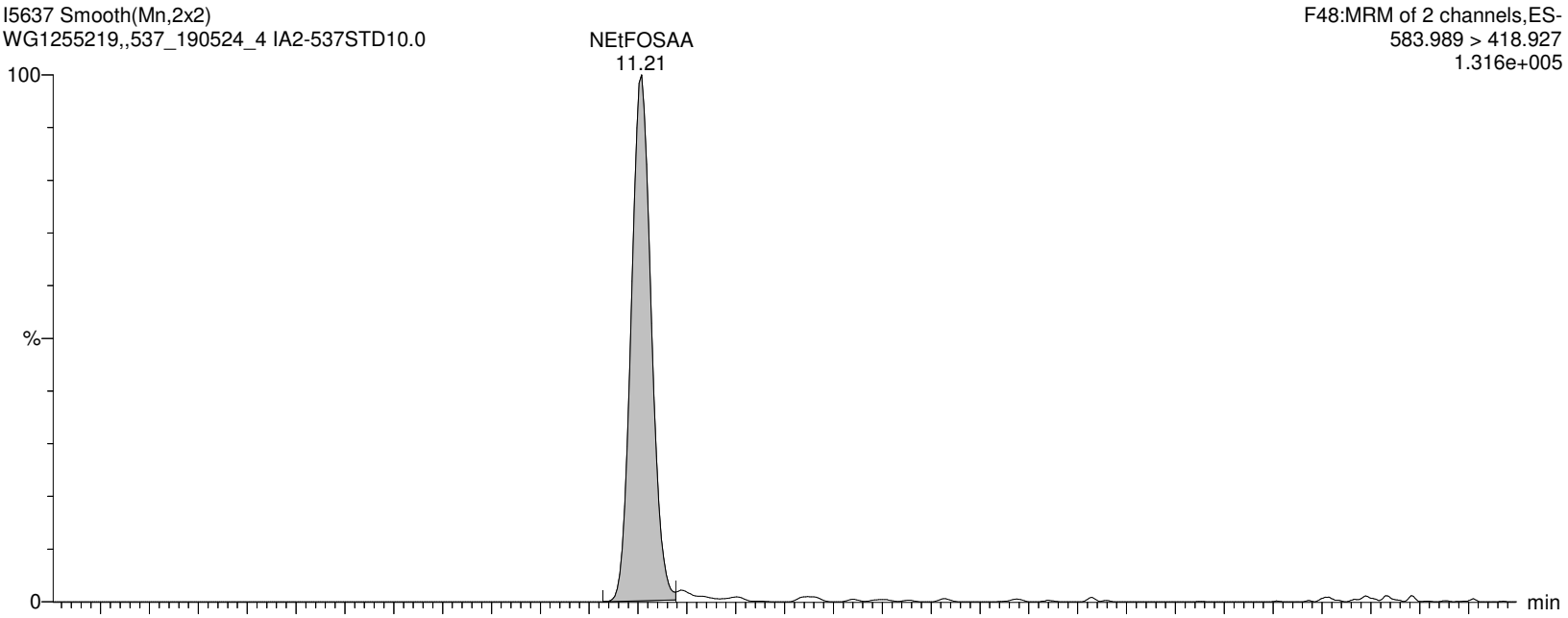


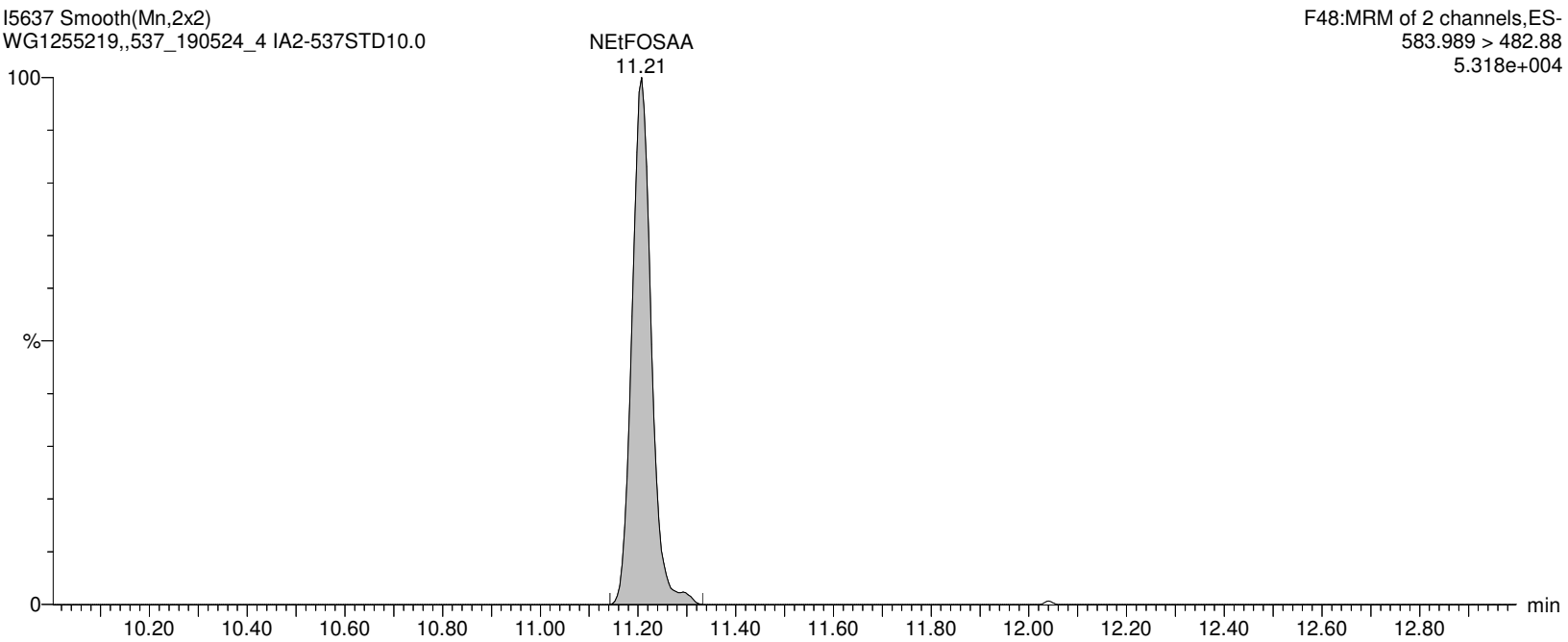
all concentration units in (ng/mL)

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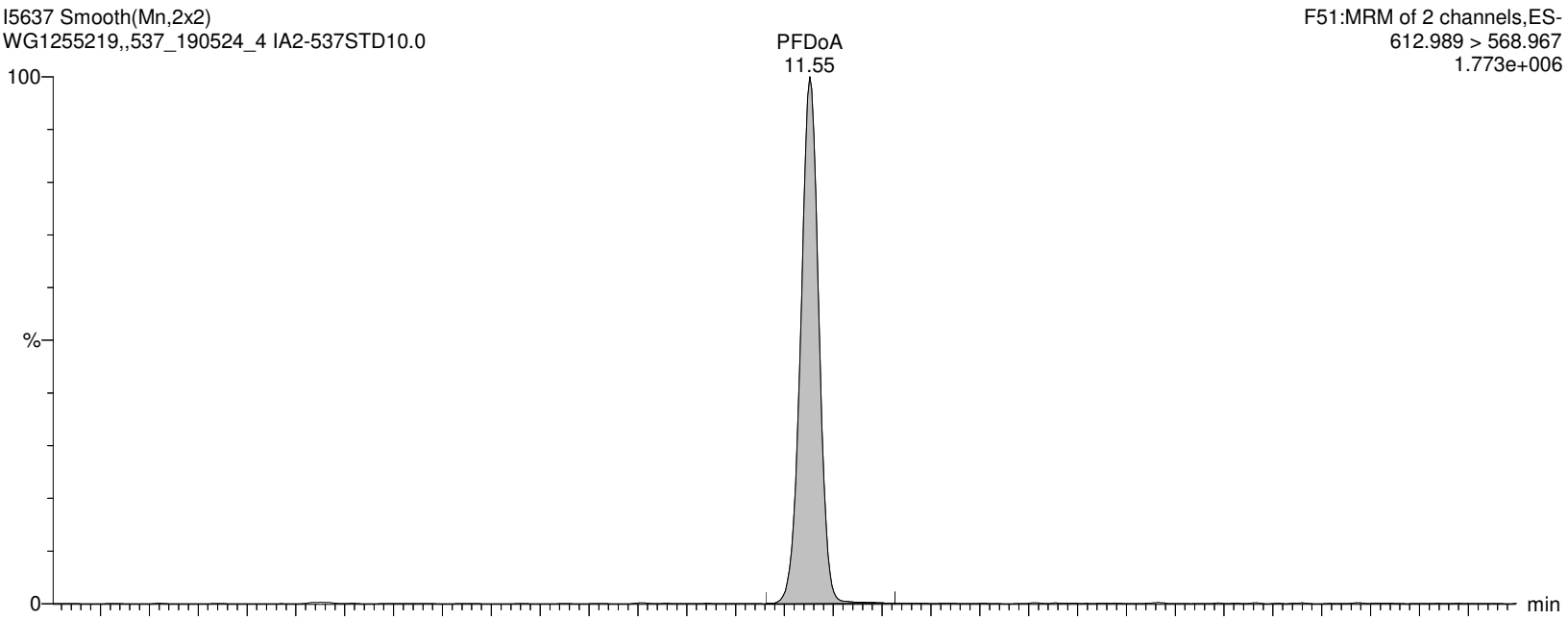


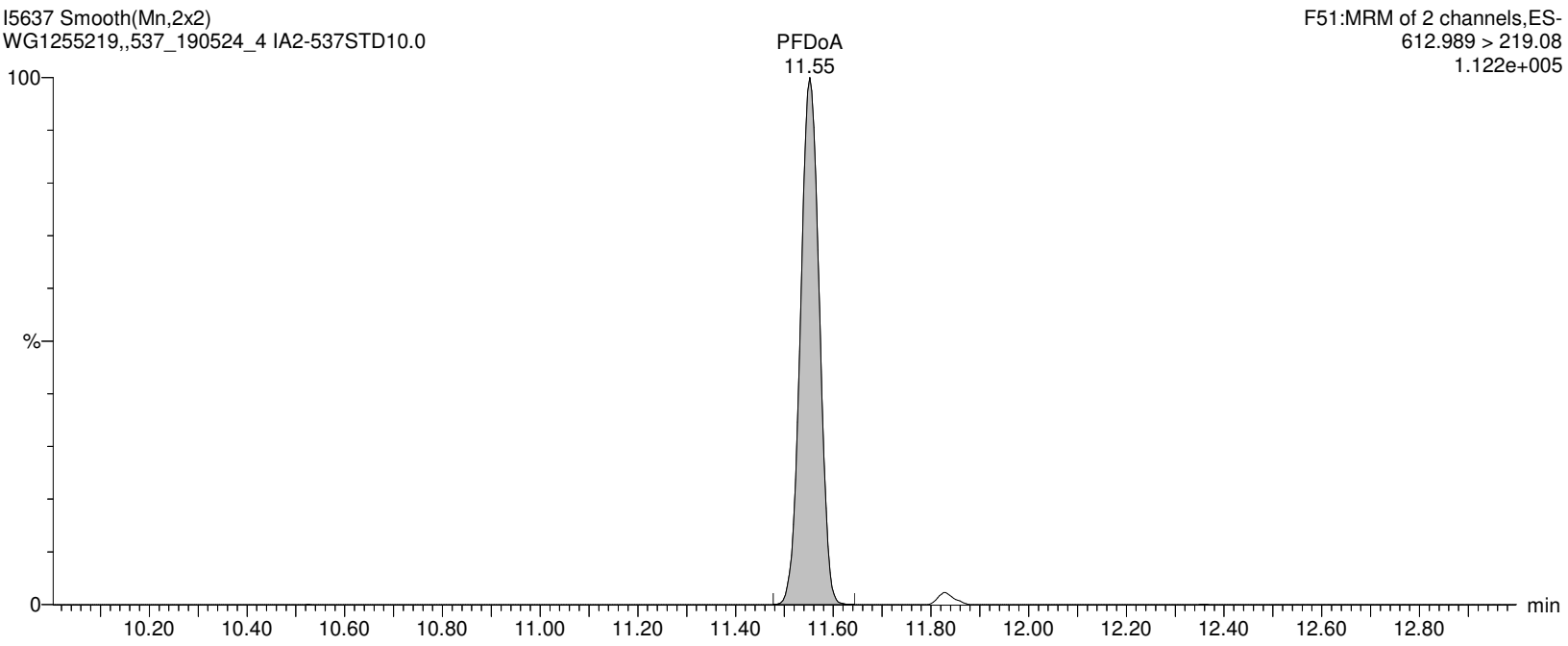
all concentration units in (ng/mL)

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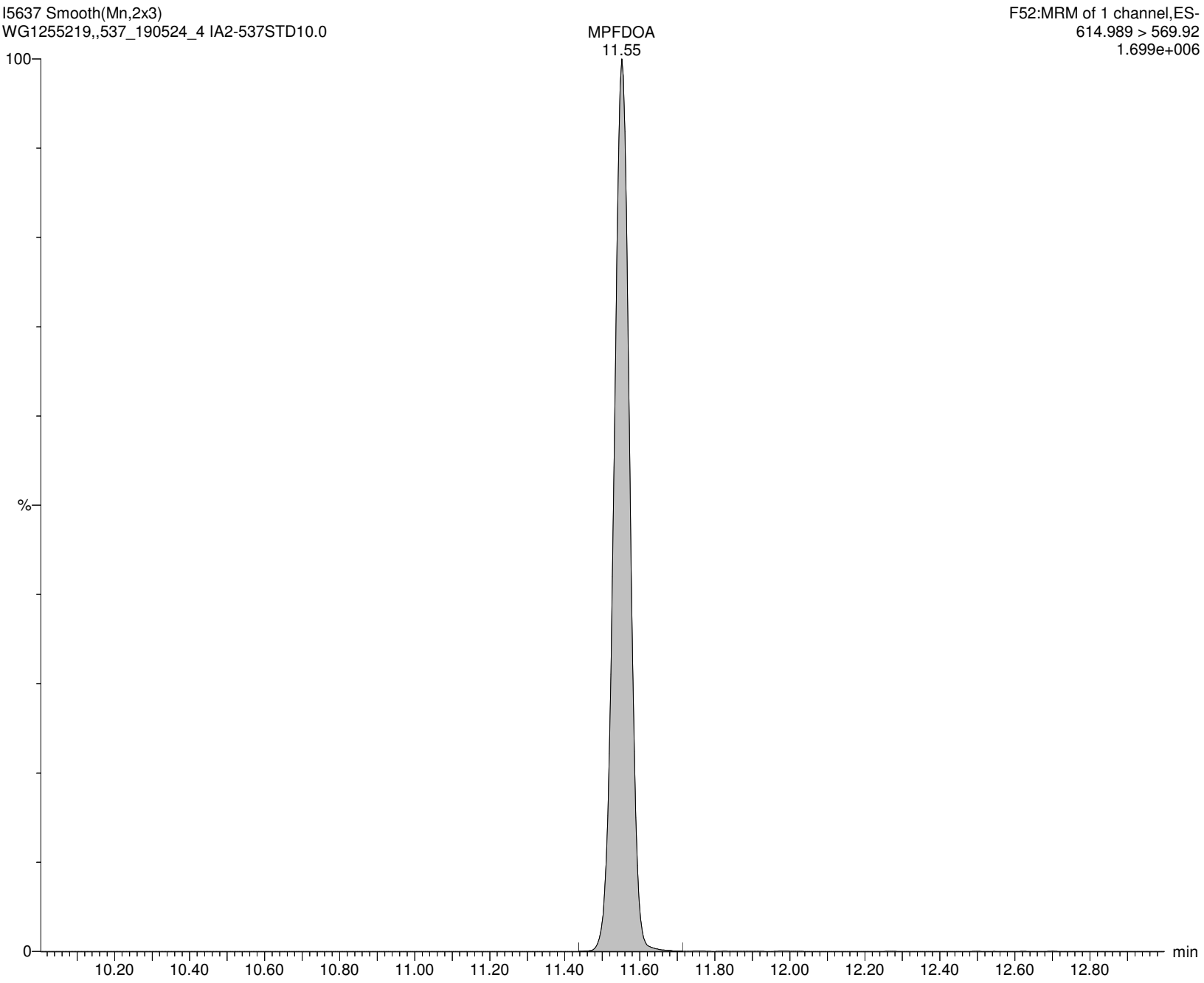


all concentration units in (ng/mL)

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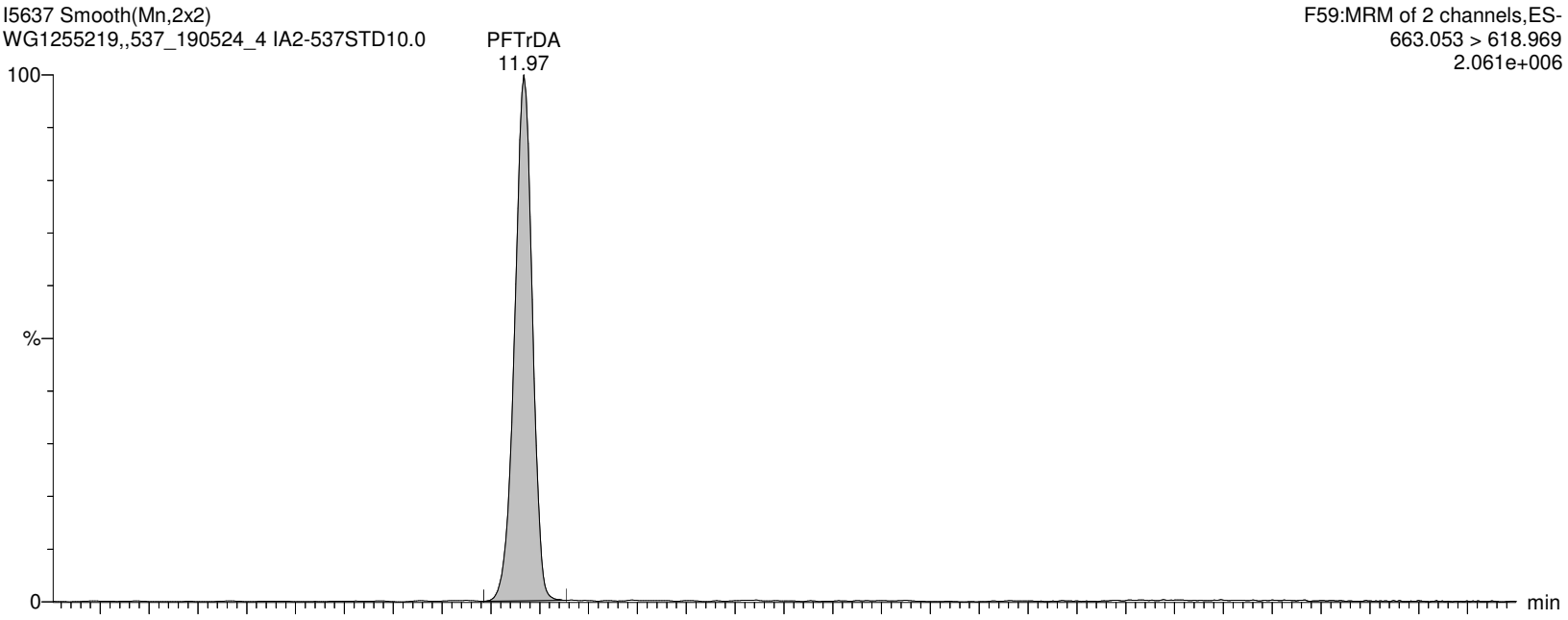


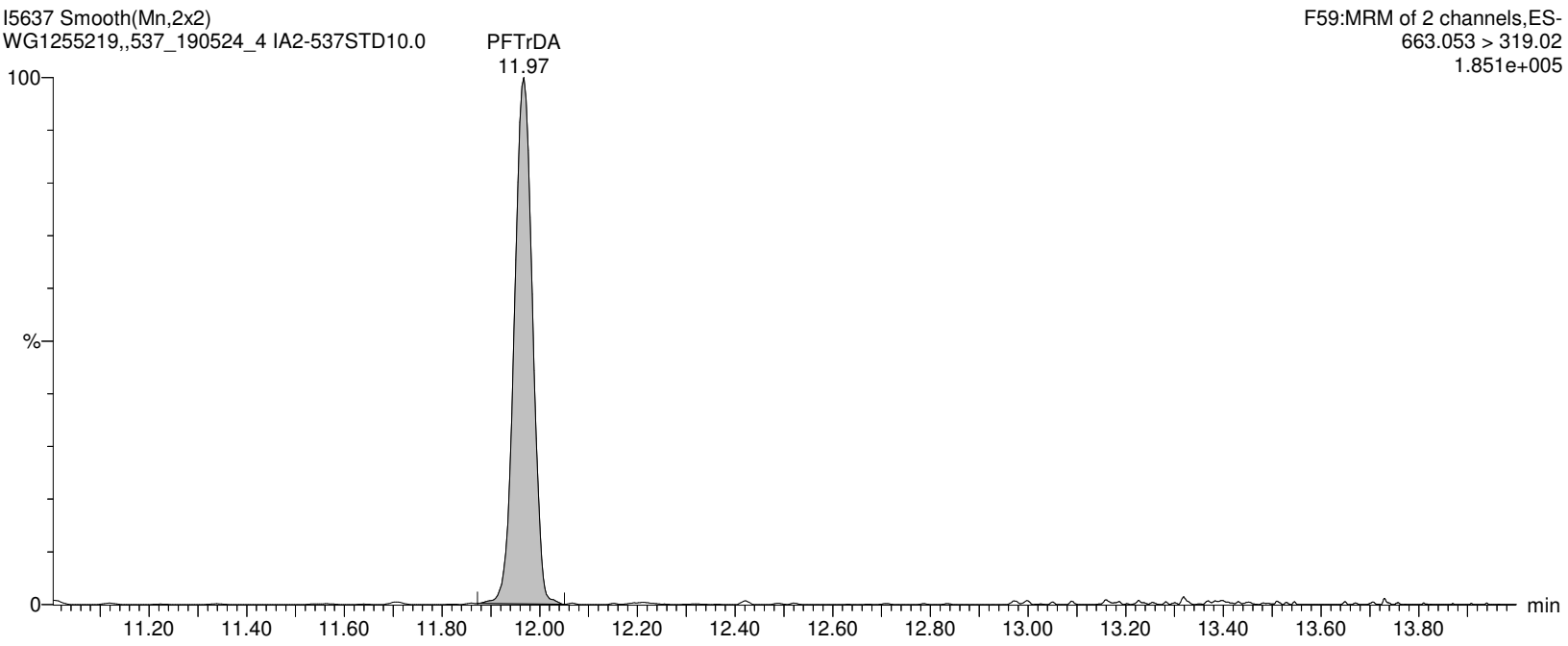
all concentration units in (ng/mL)

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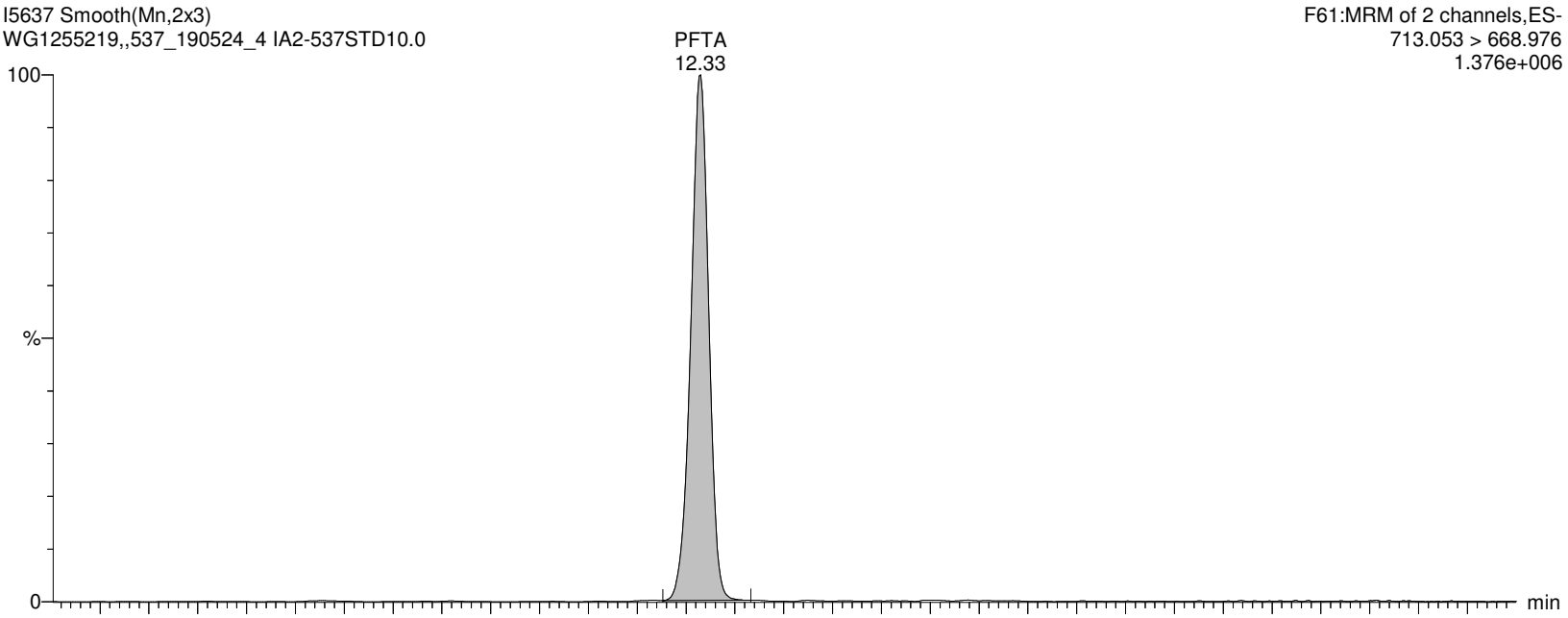


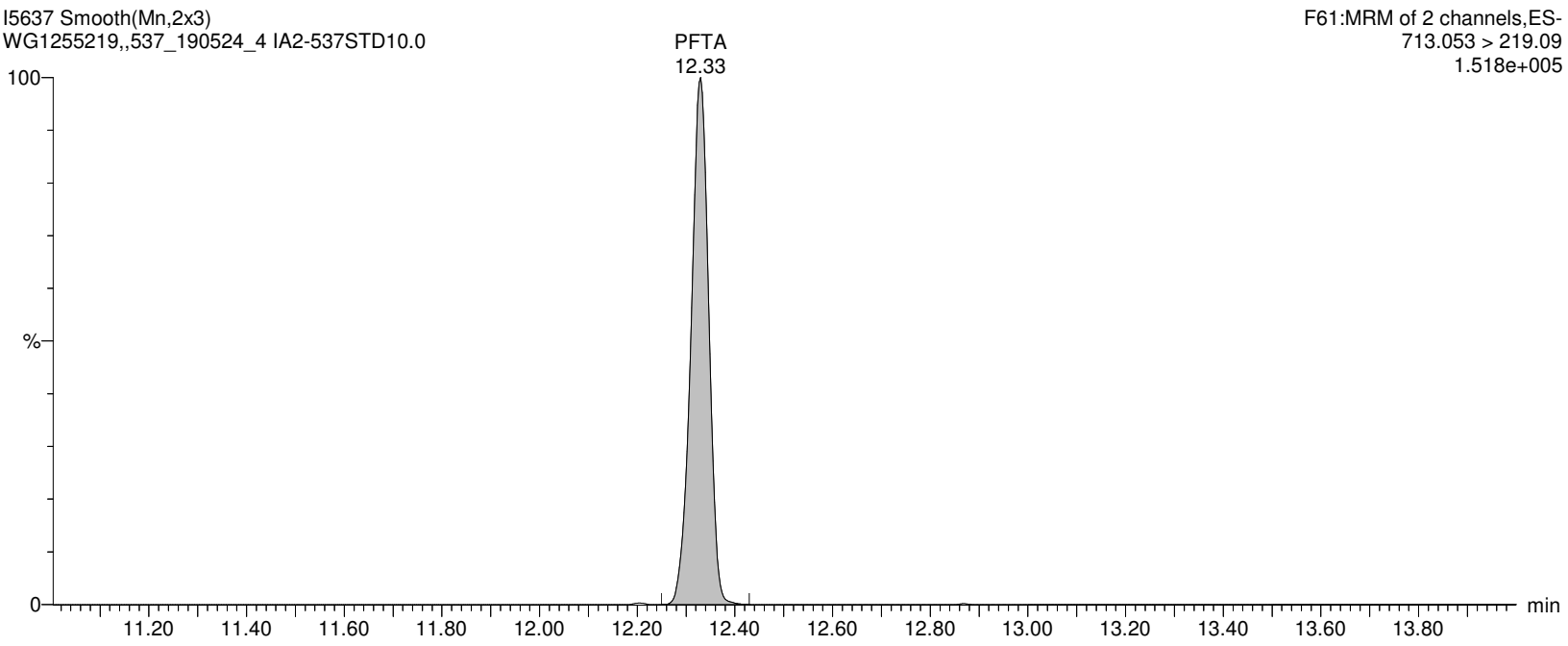
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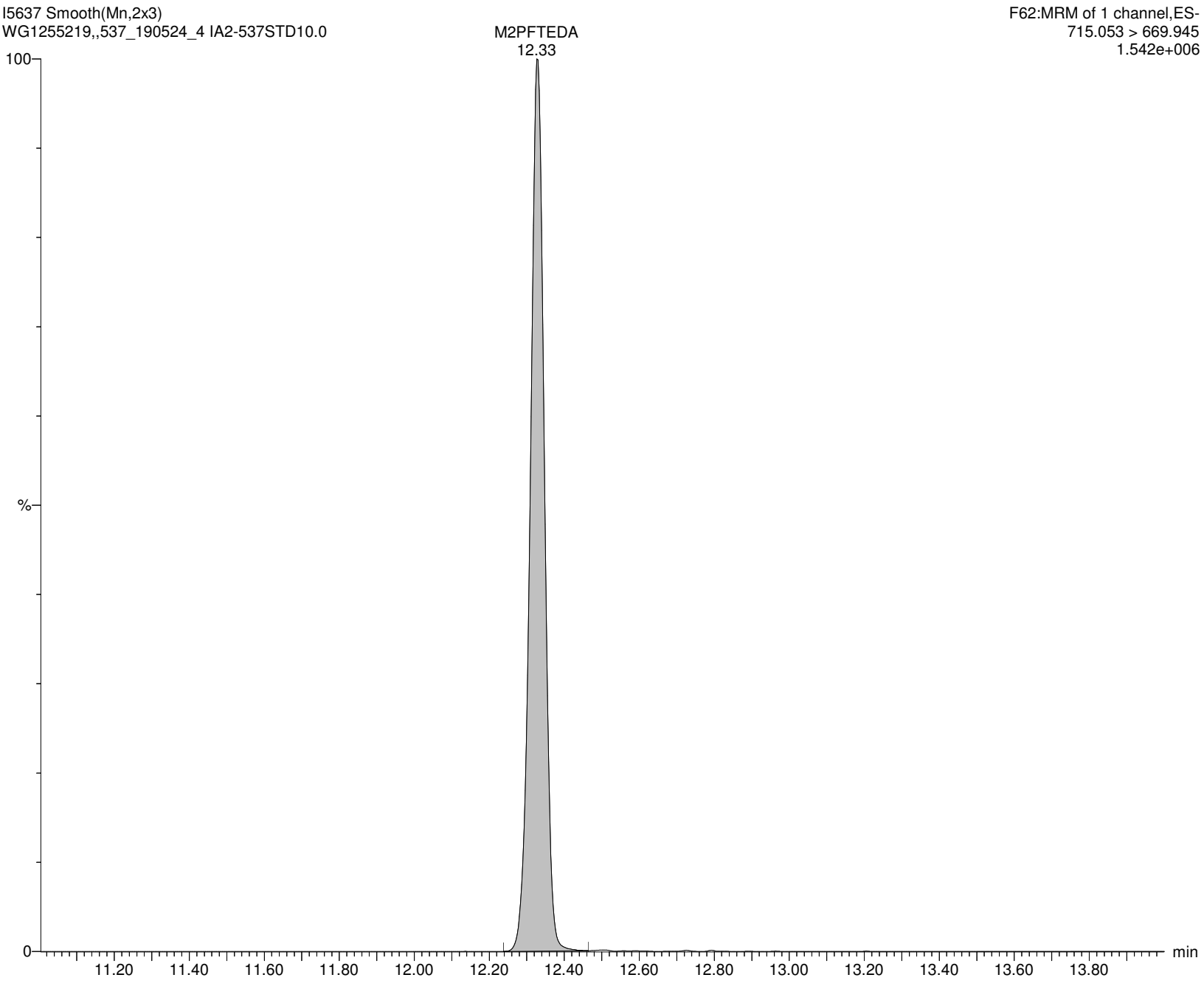


all concentration units in (ng/mL)

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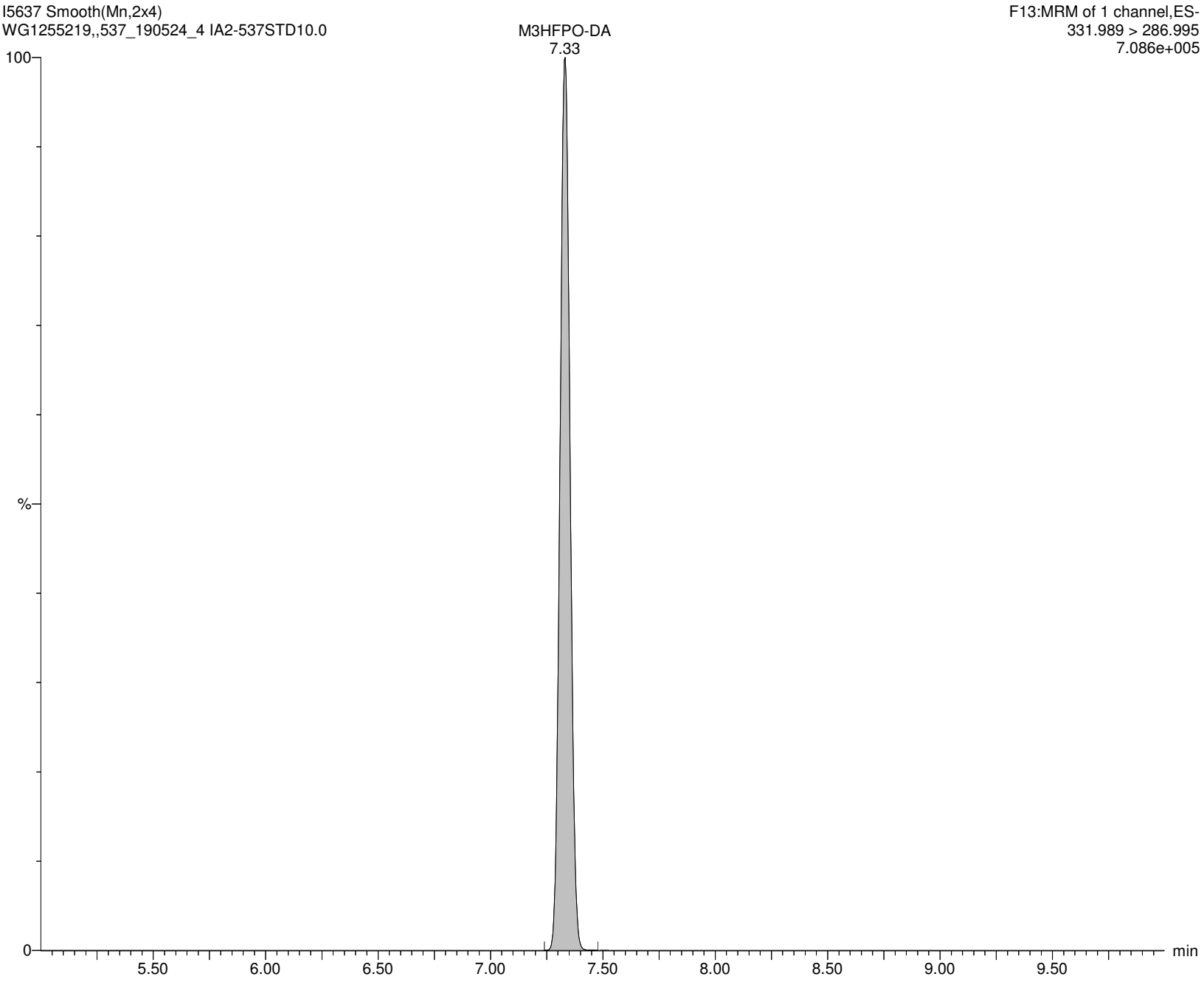


all concentration units in (ng/mL)

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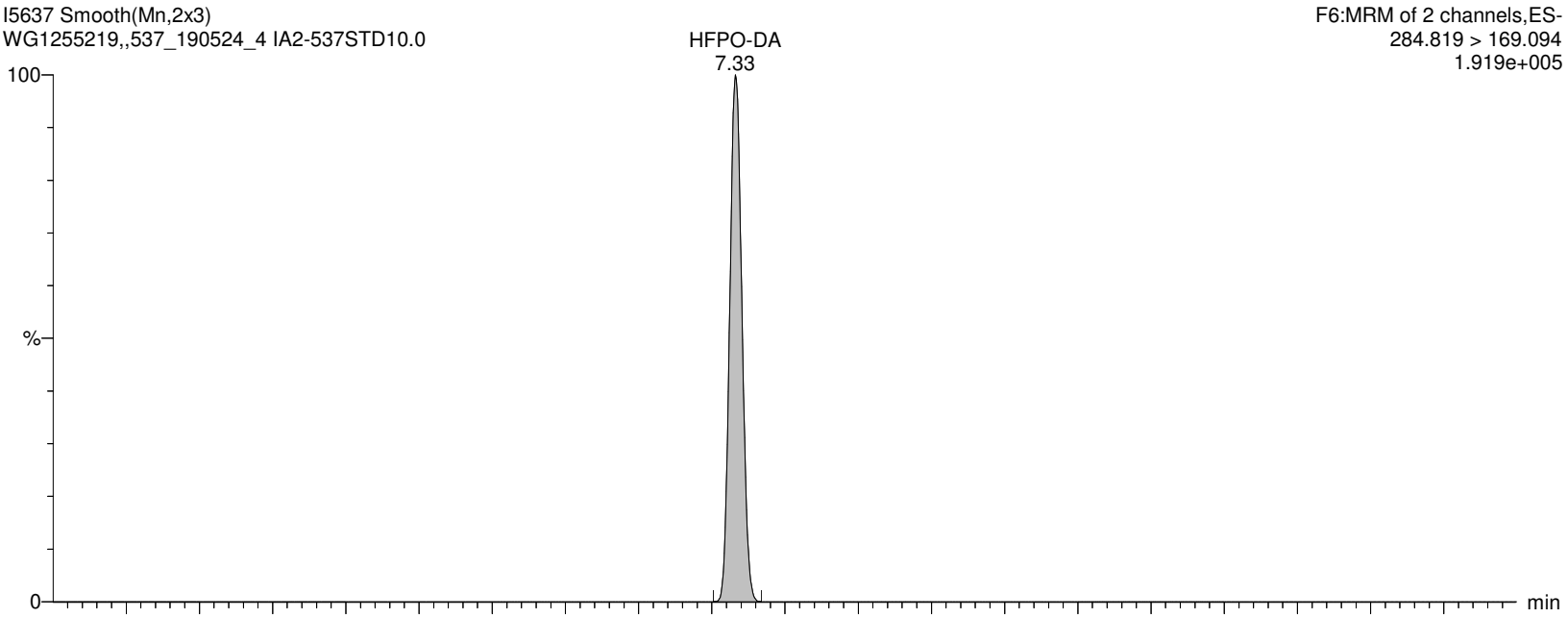


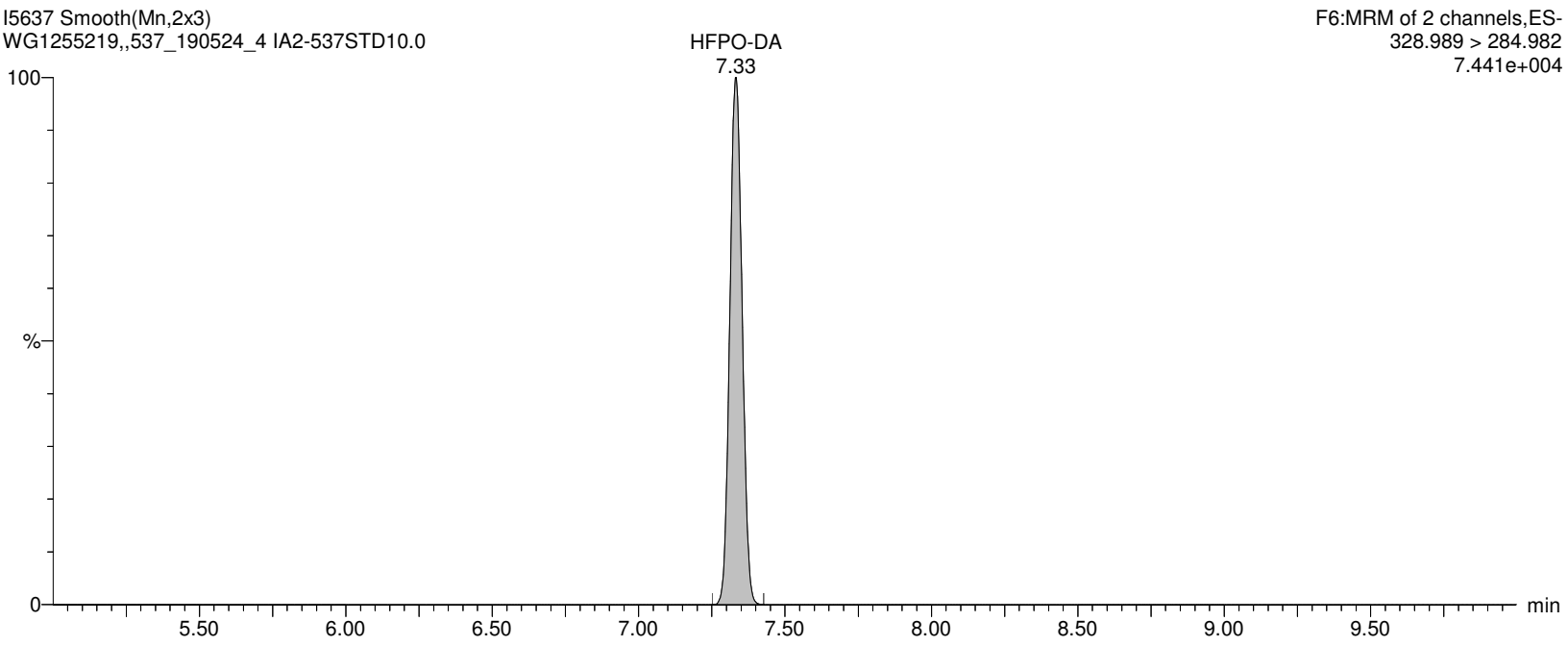
all concentration units in (ng/mL)

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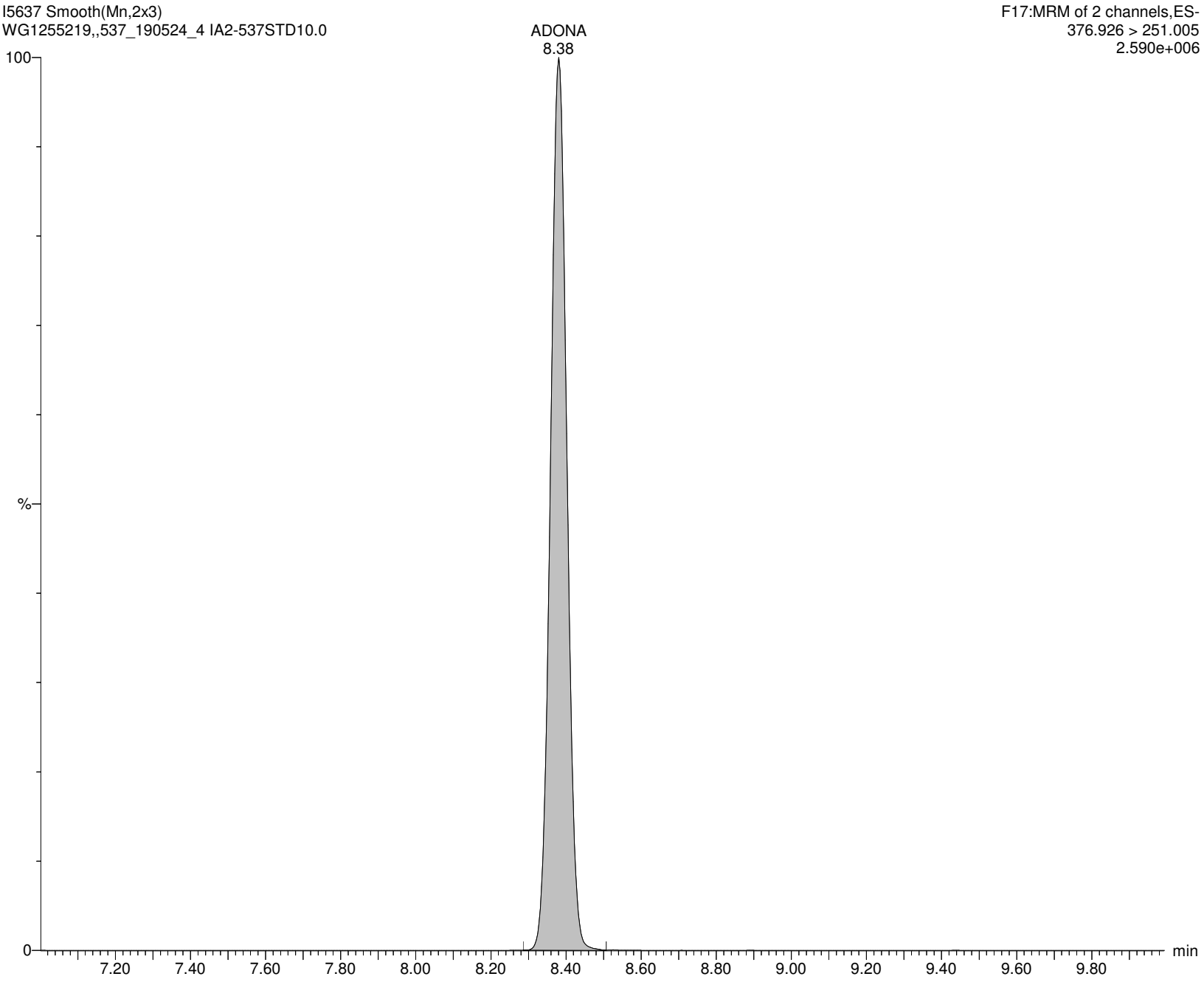


all concentration units in (ng/mL)

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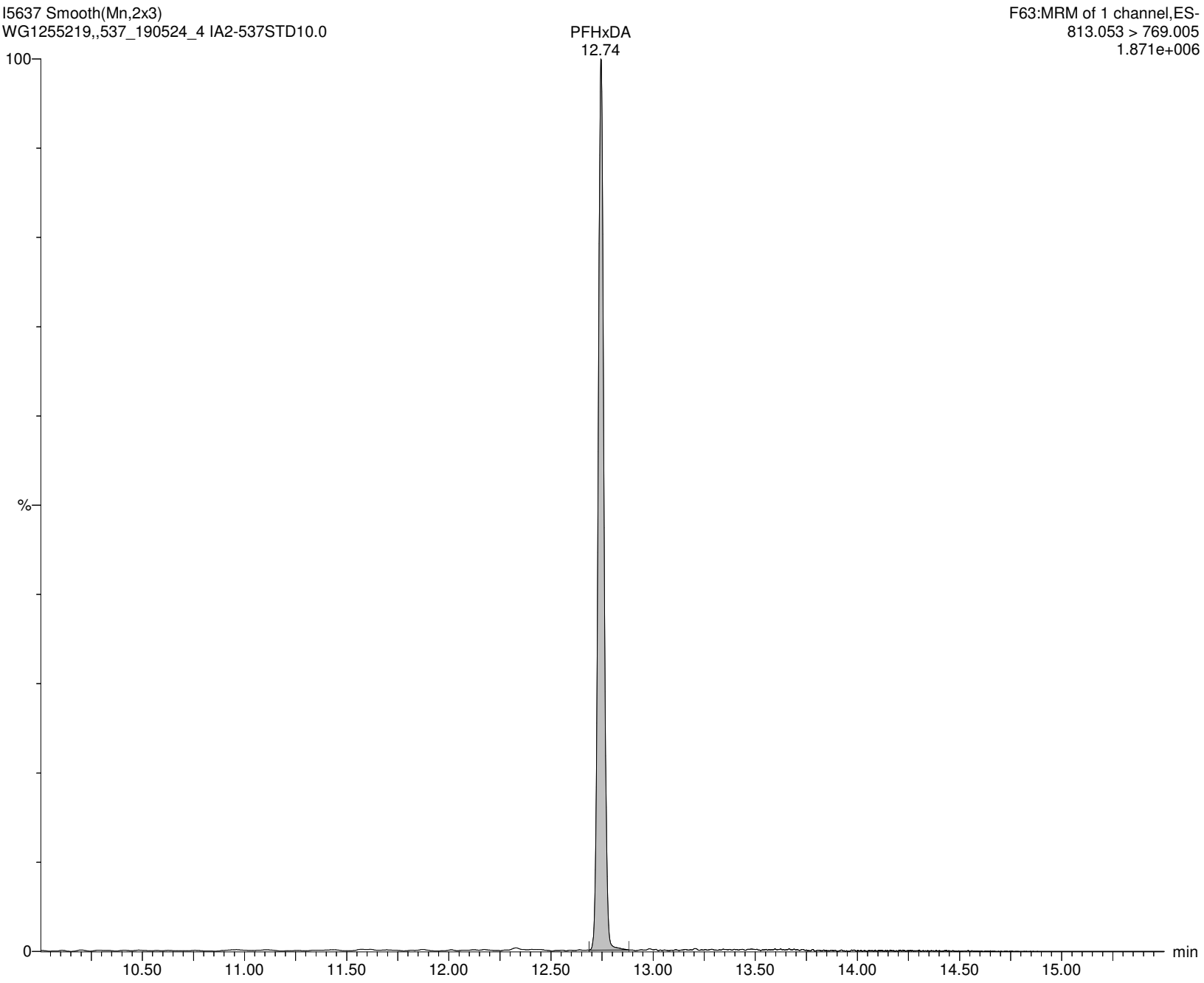


all concentration units in (ng/mL)

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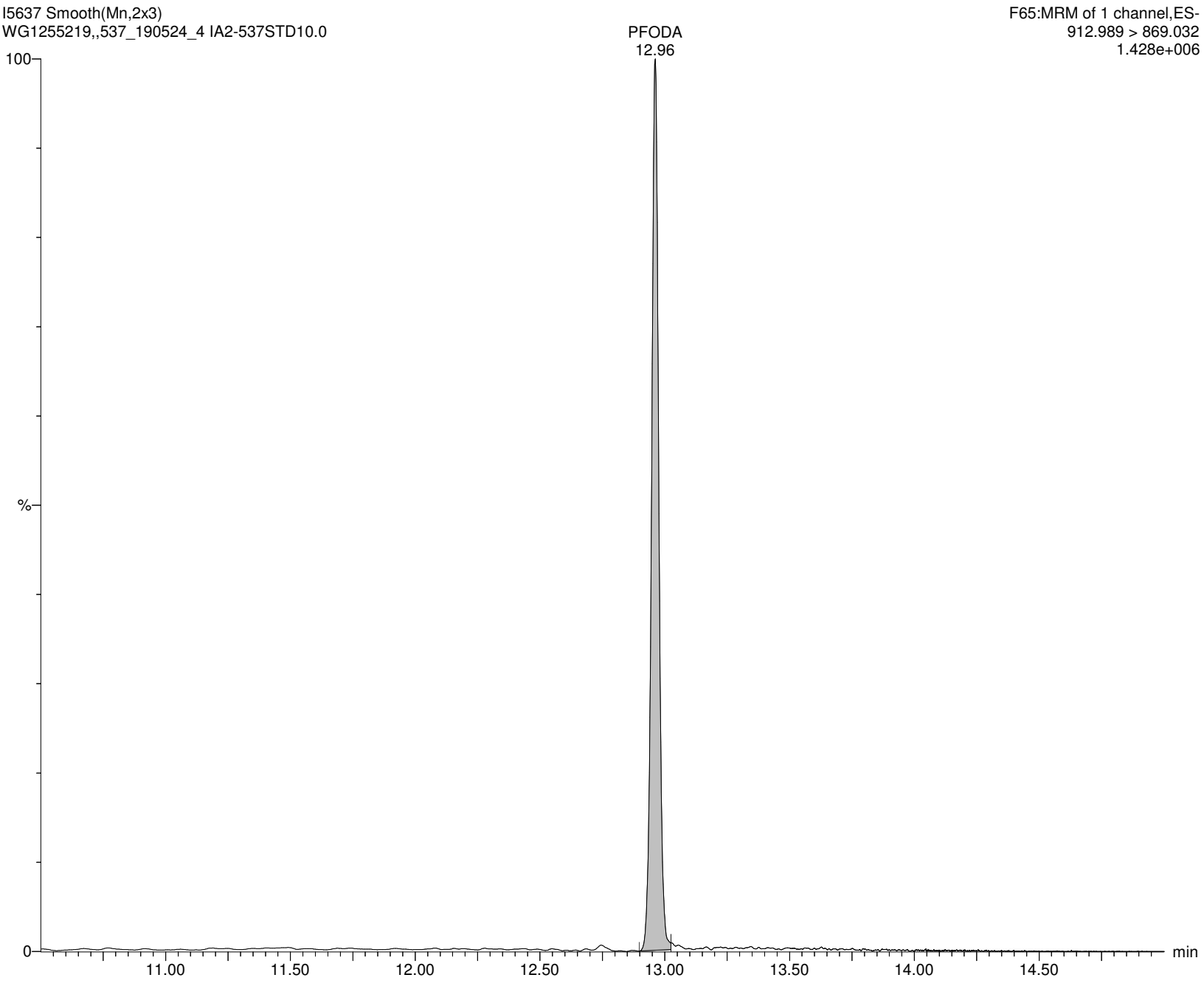


all concentration units in (ng/mL)

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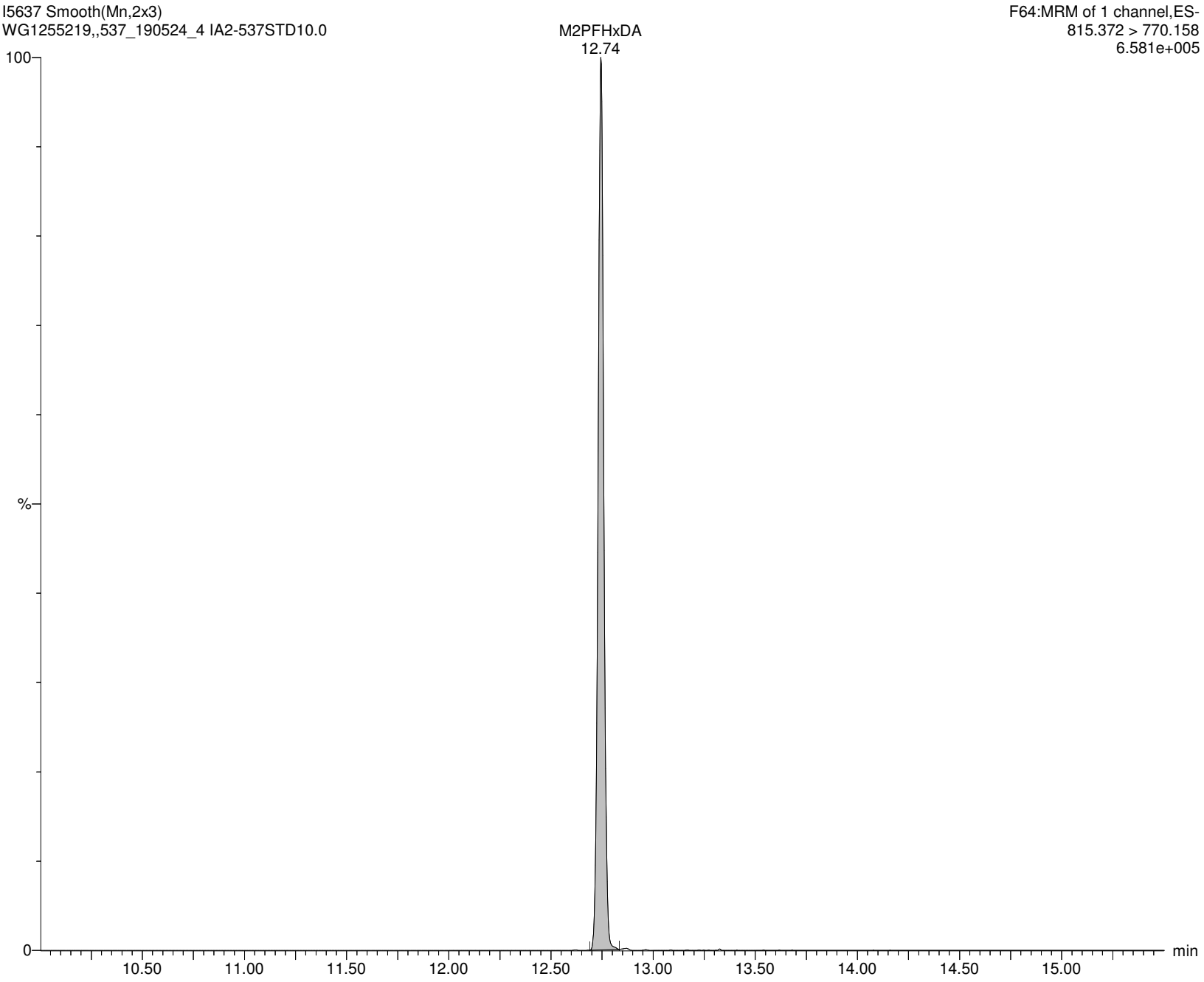


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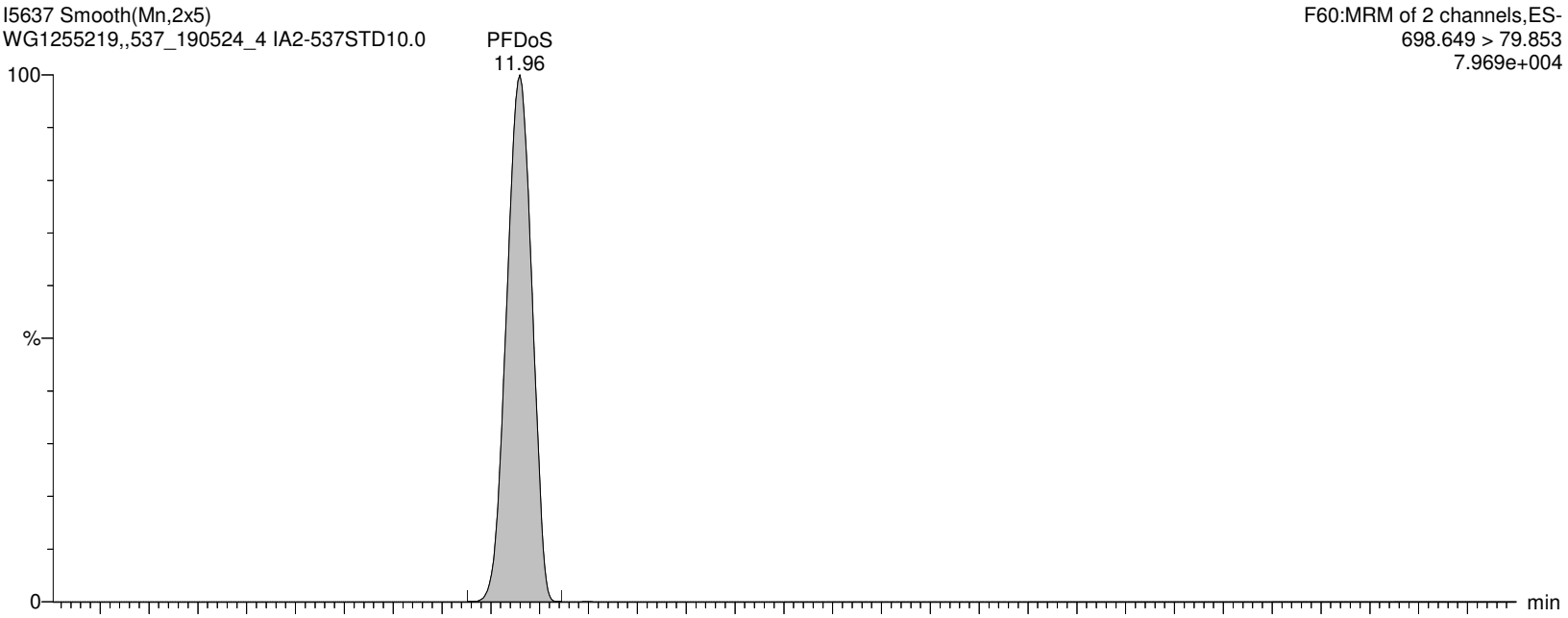


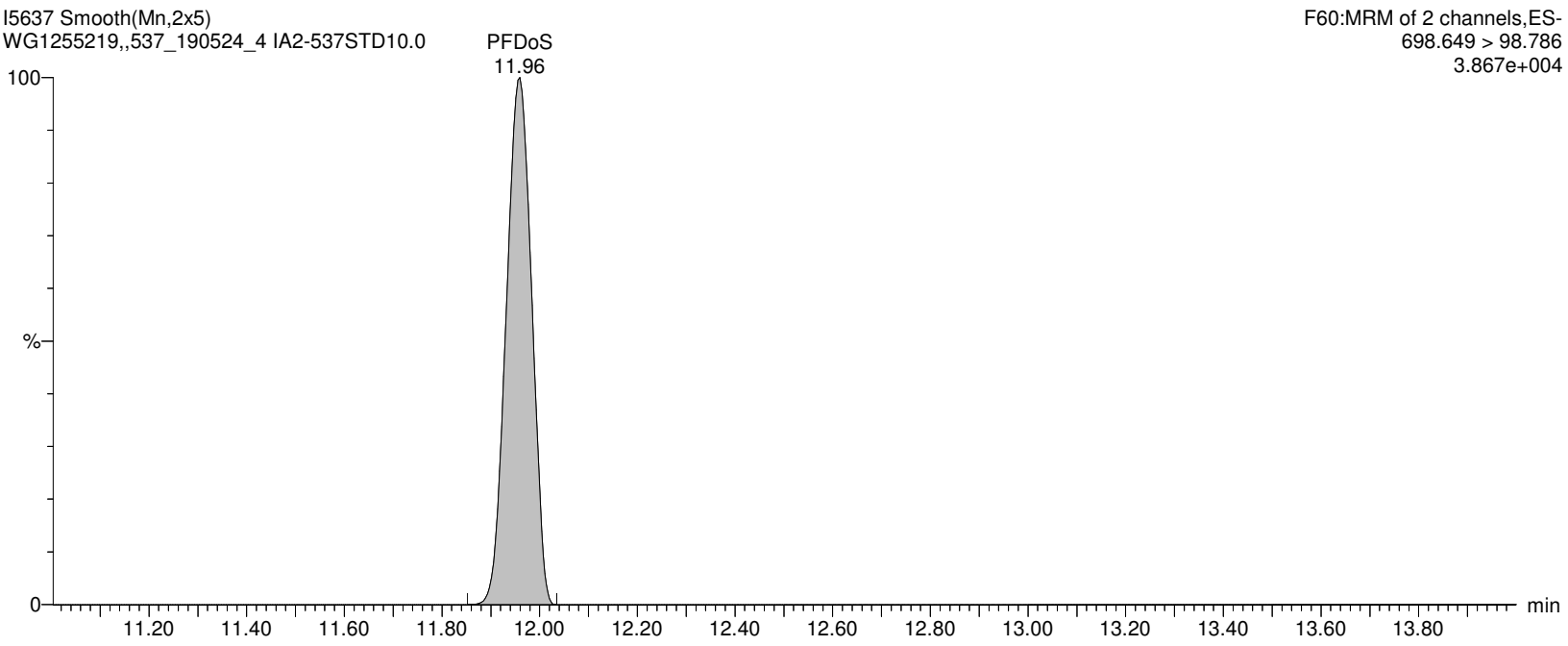
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PFDoS



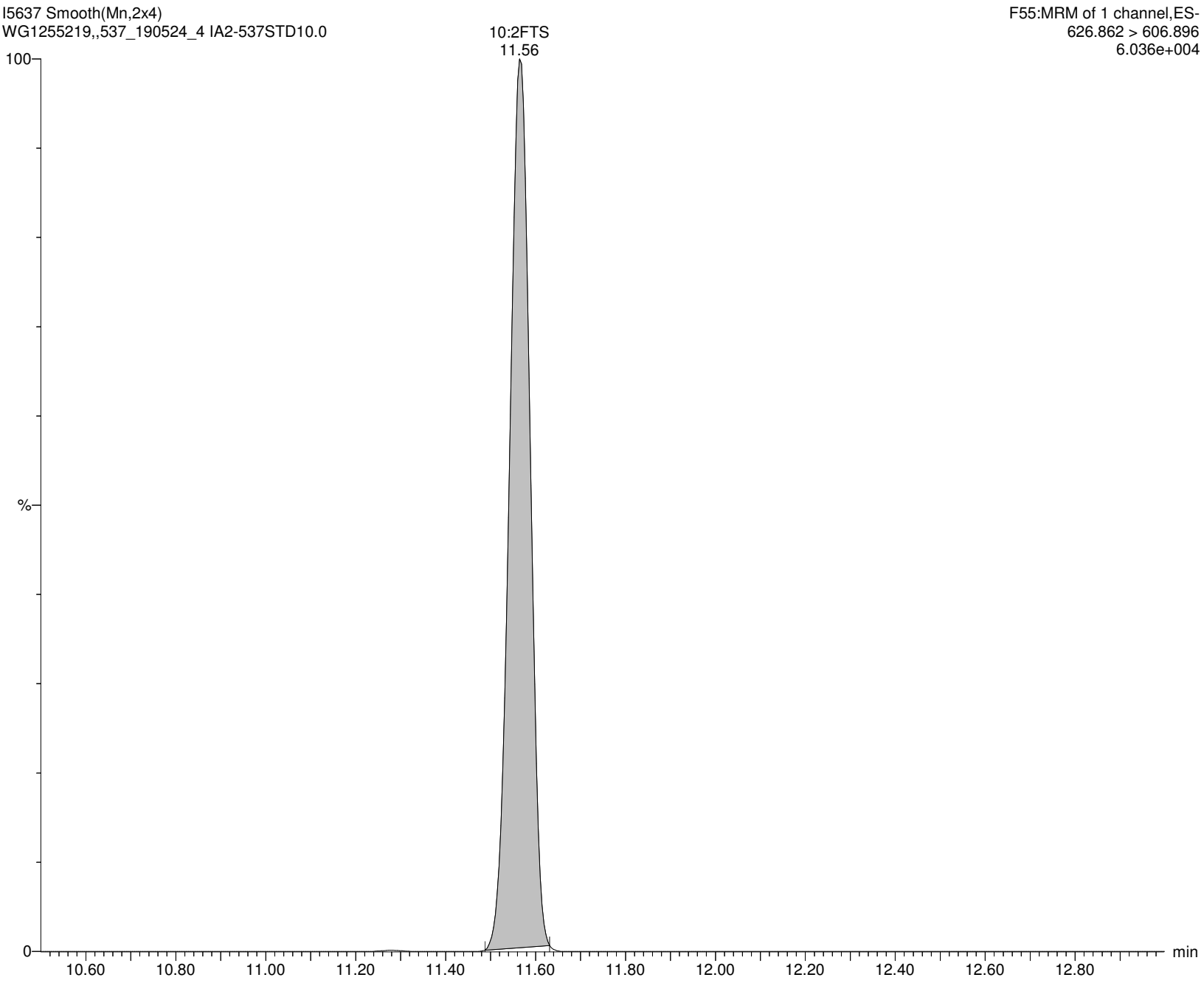


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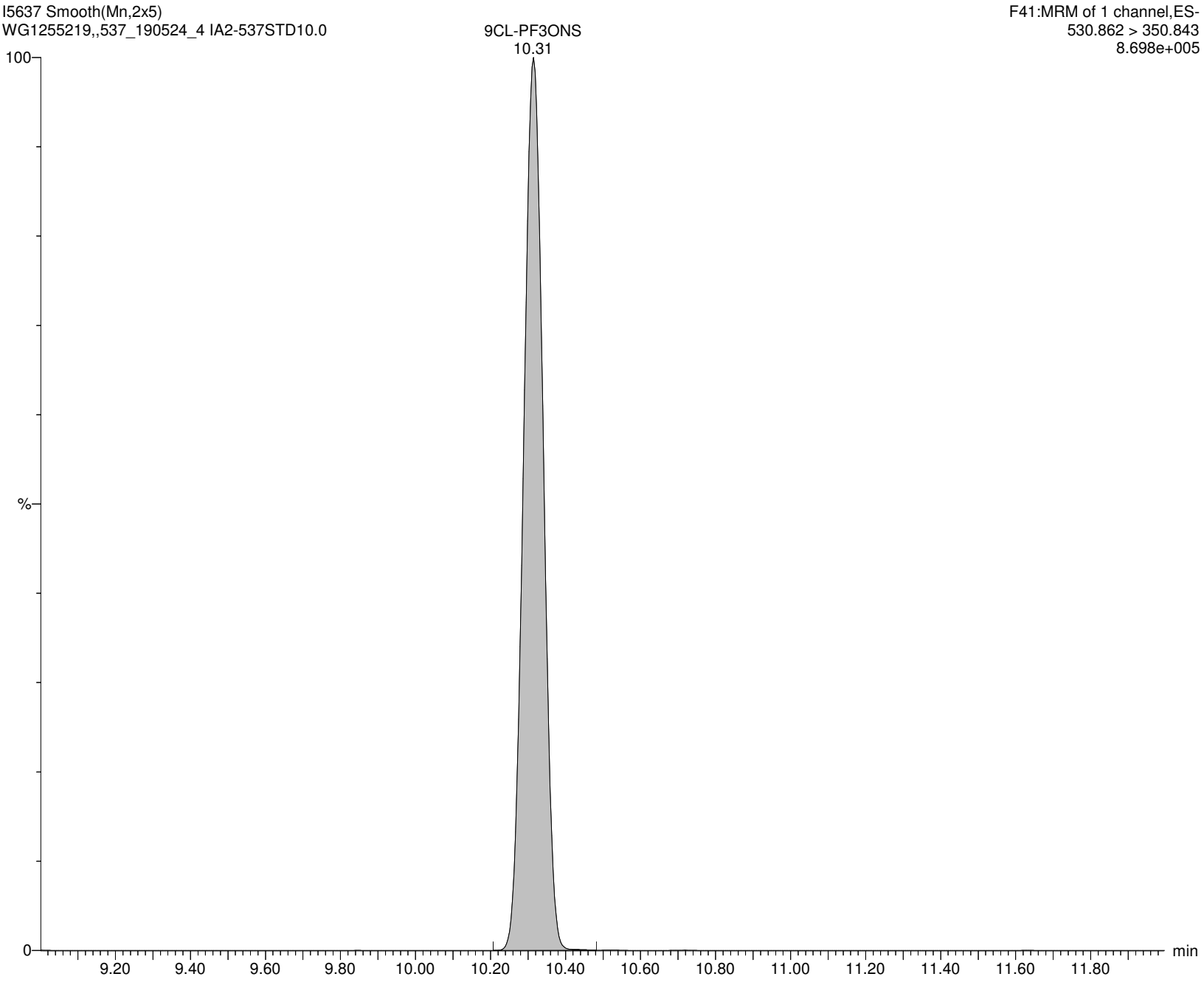


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9CL-PF3ONS

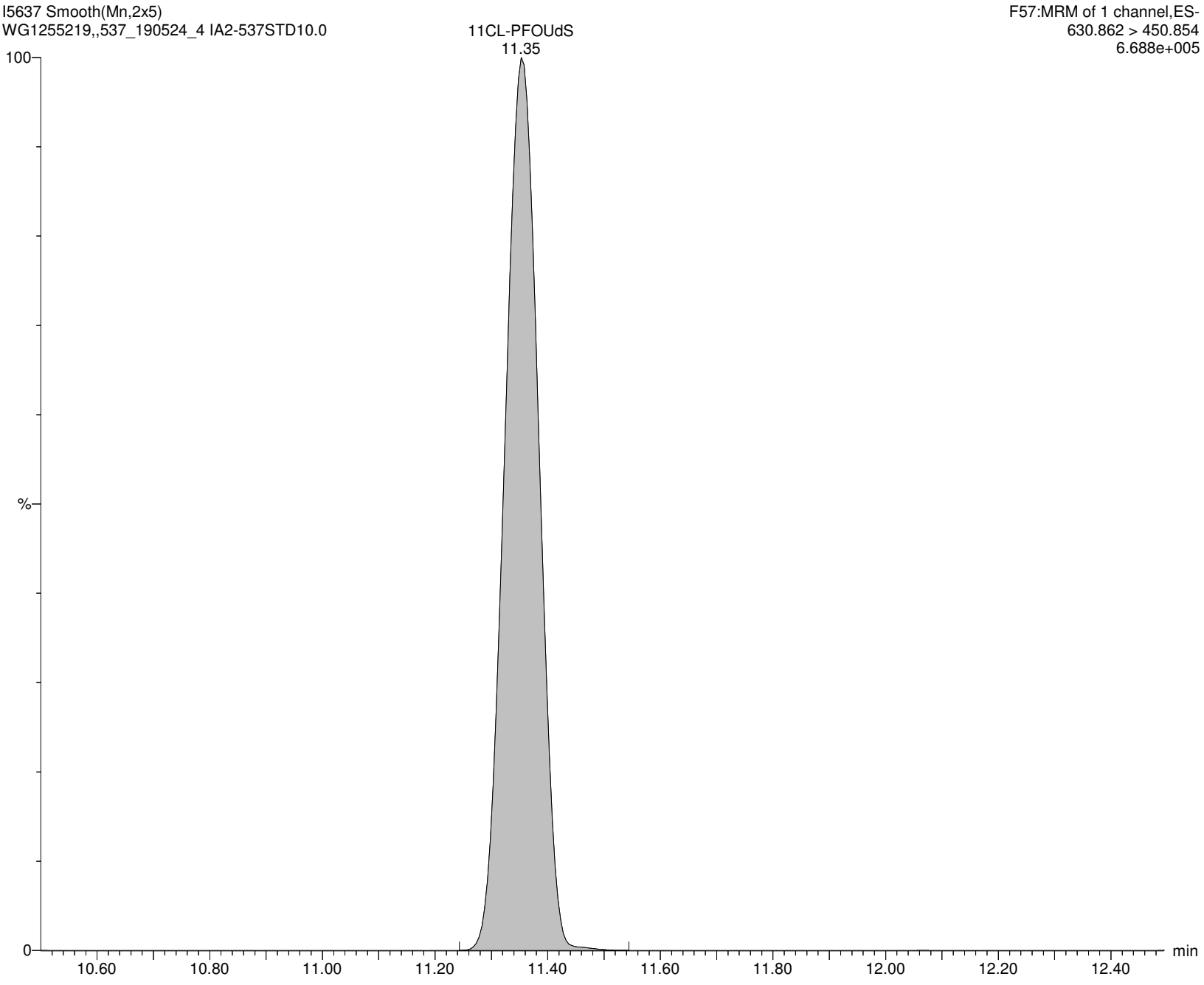


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:36 Eastern Daylight Time

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ID: IA2-537STD10.0
Date: 01-Jul-2019
Time: 18:47:03
Description: WG1255219,,537_190524_4
User: LCMS02:JW
Vial: 1:A,5
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
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11CL-PFOUdS

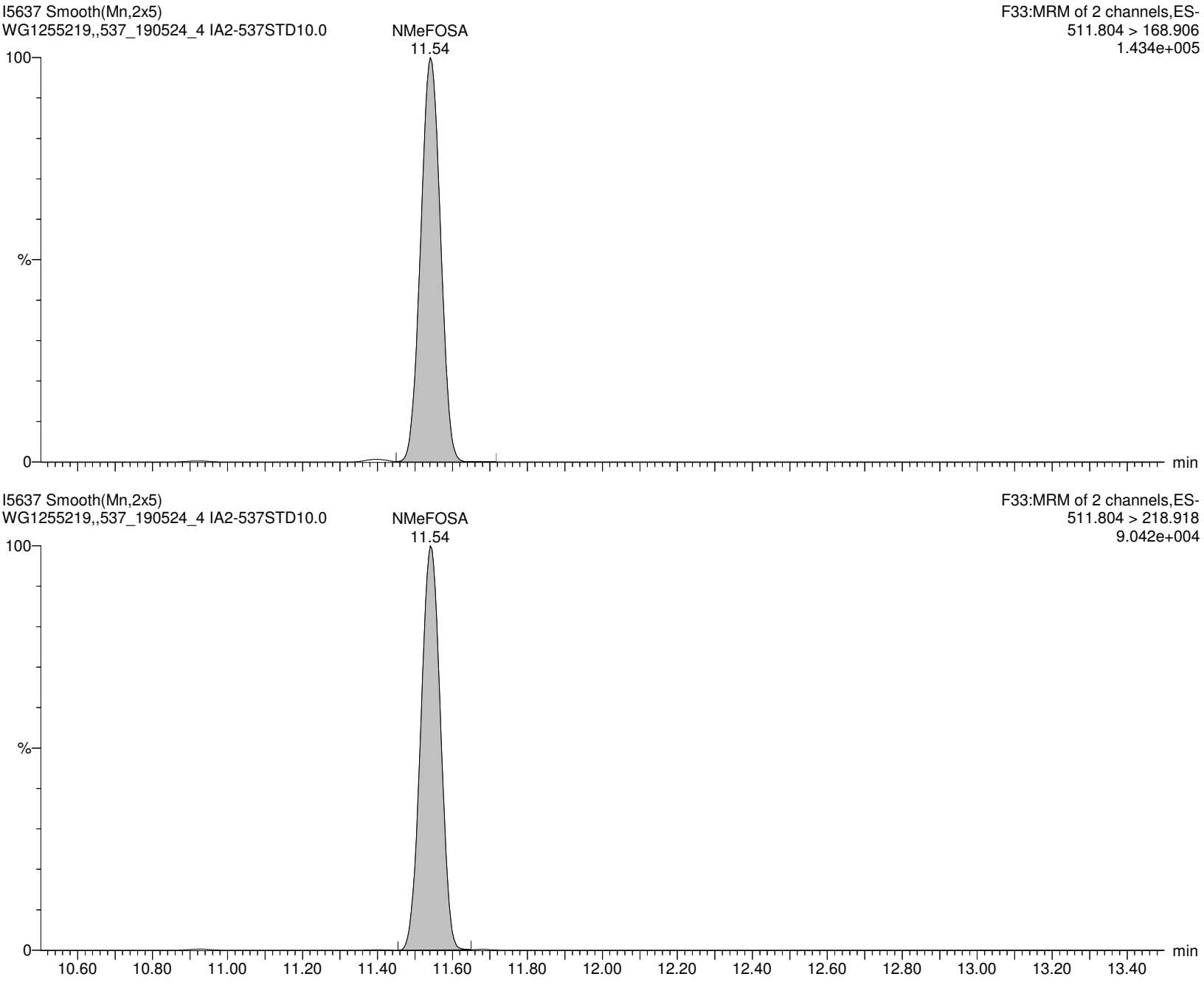


all concentration units in (ng/mL)

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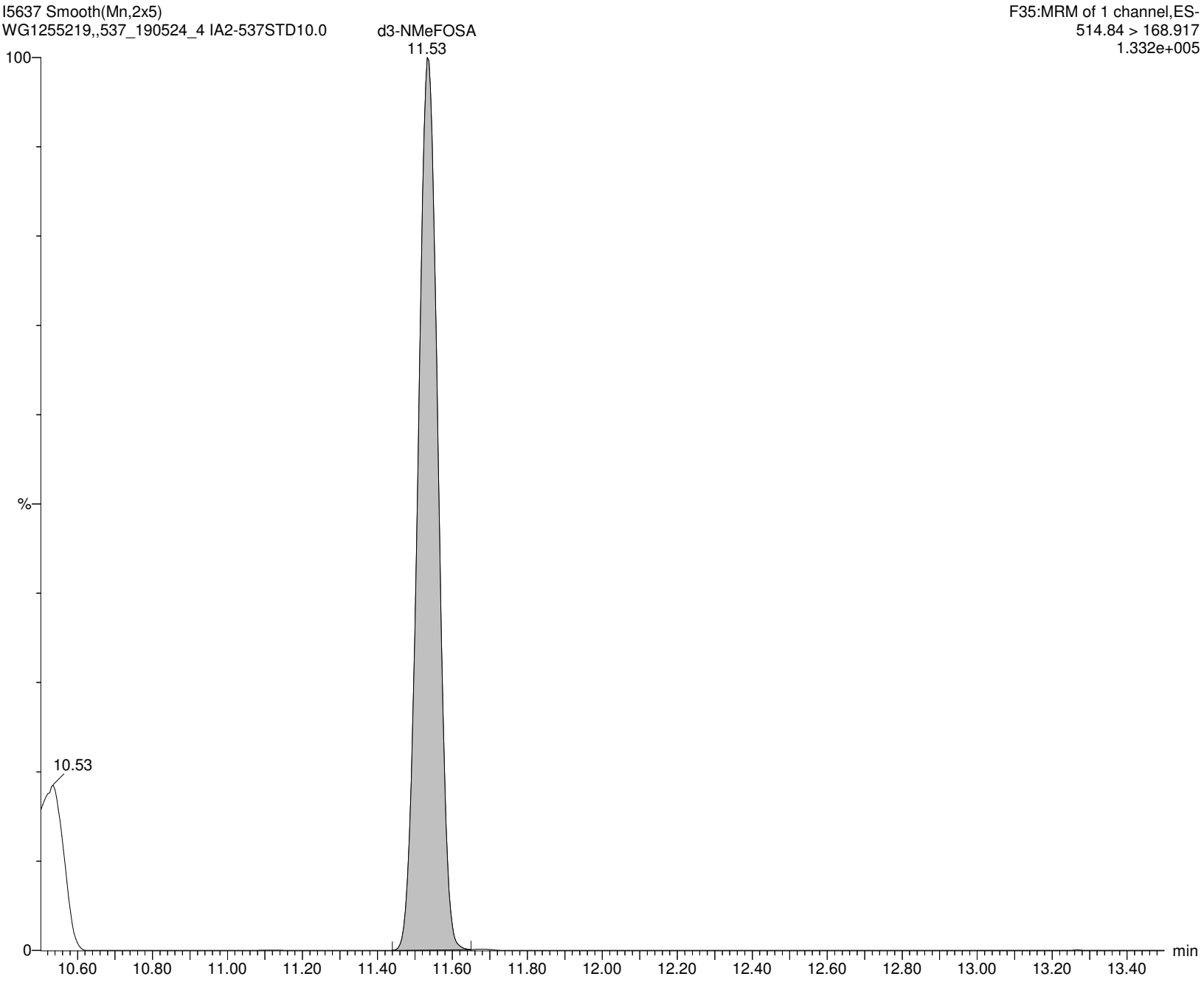


all concentration units in (ng/mL)

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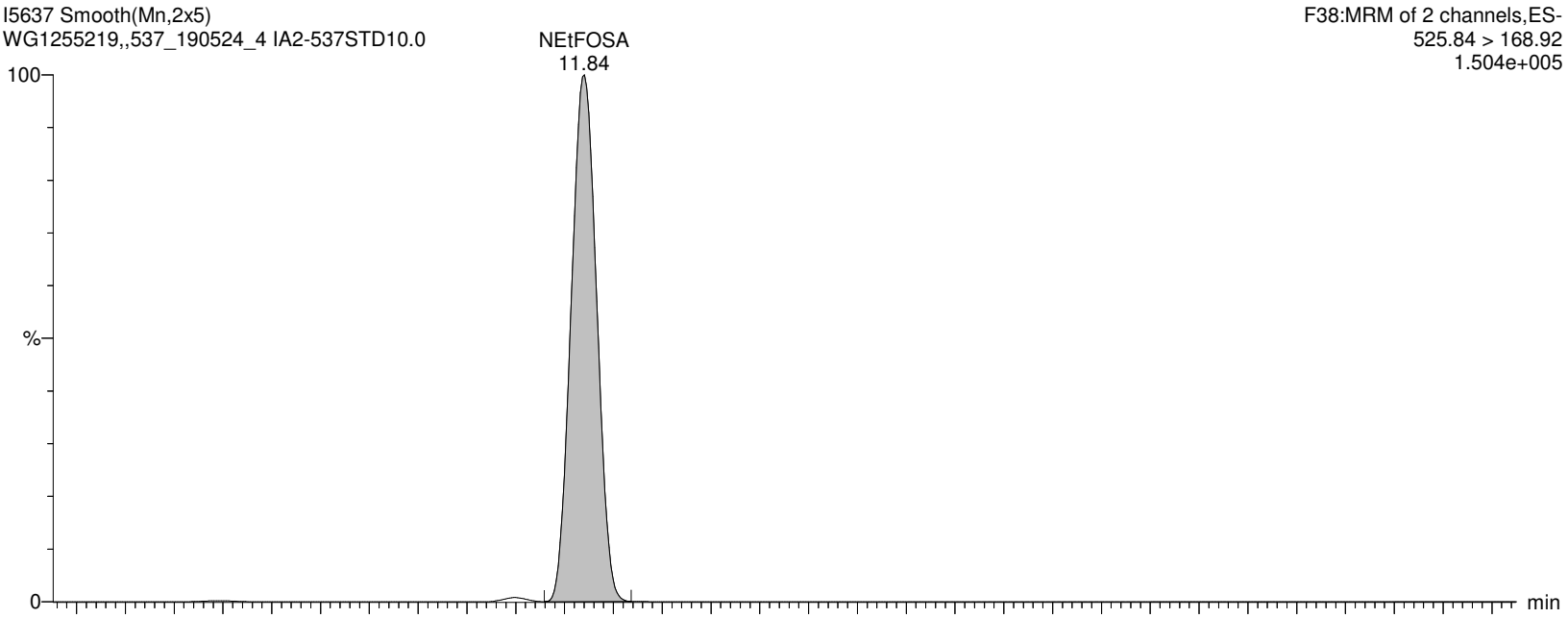


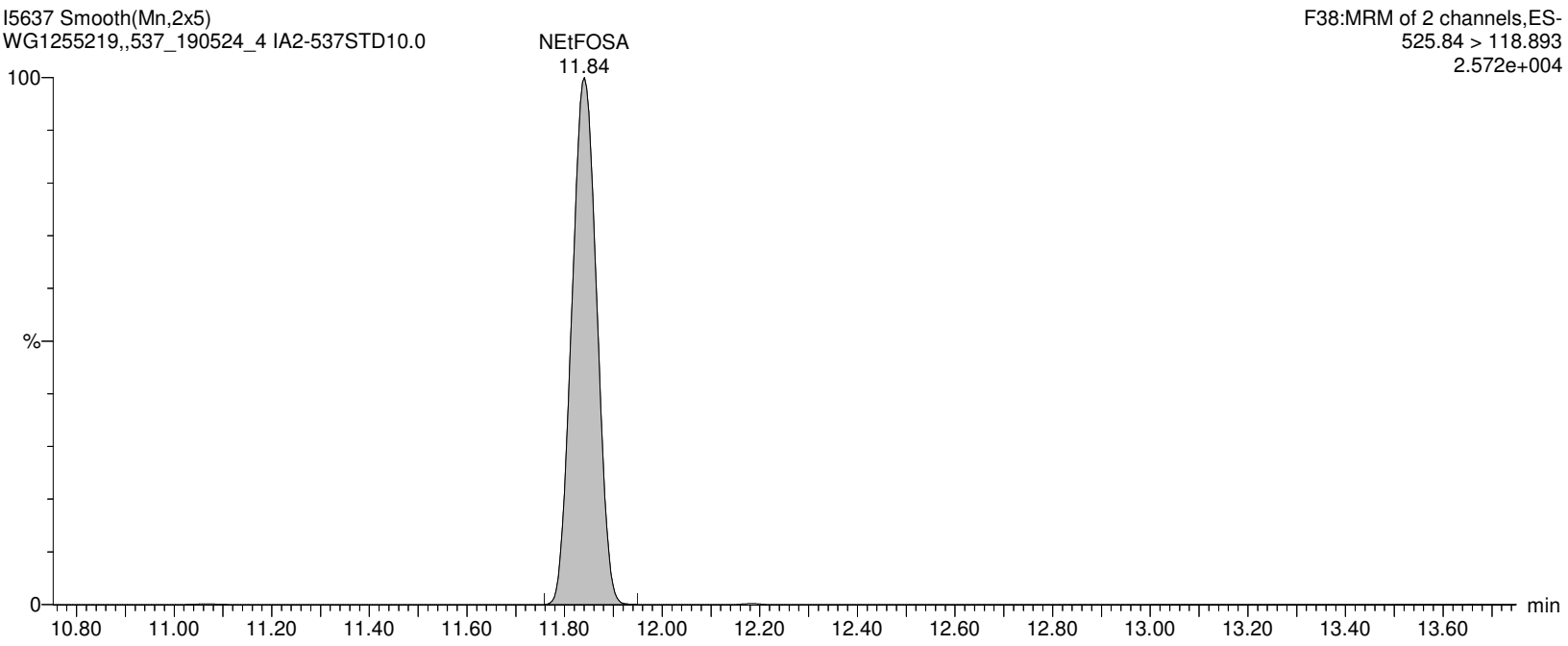
all concentration units in (ng/mL)

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NEtFOSA



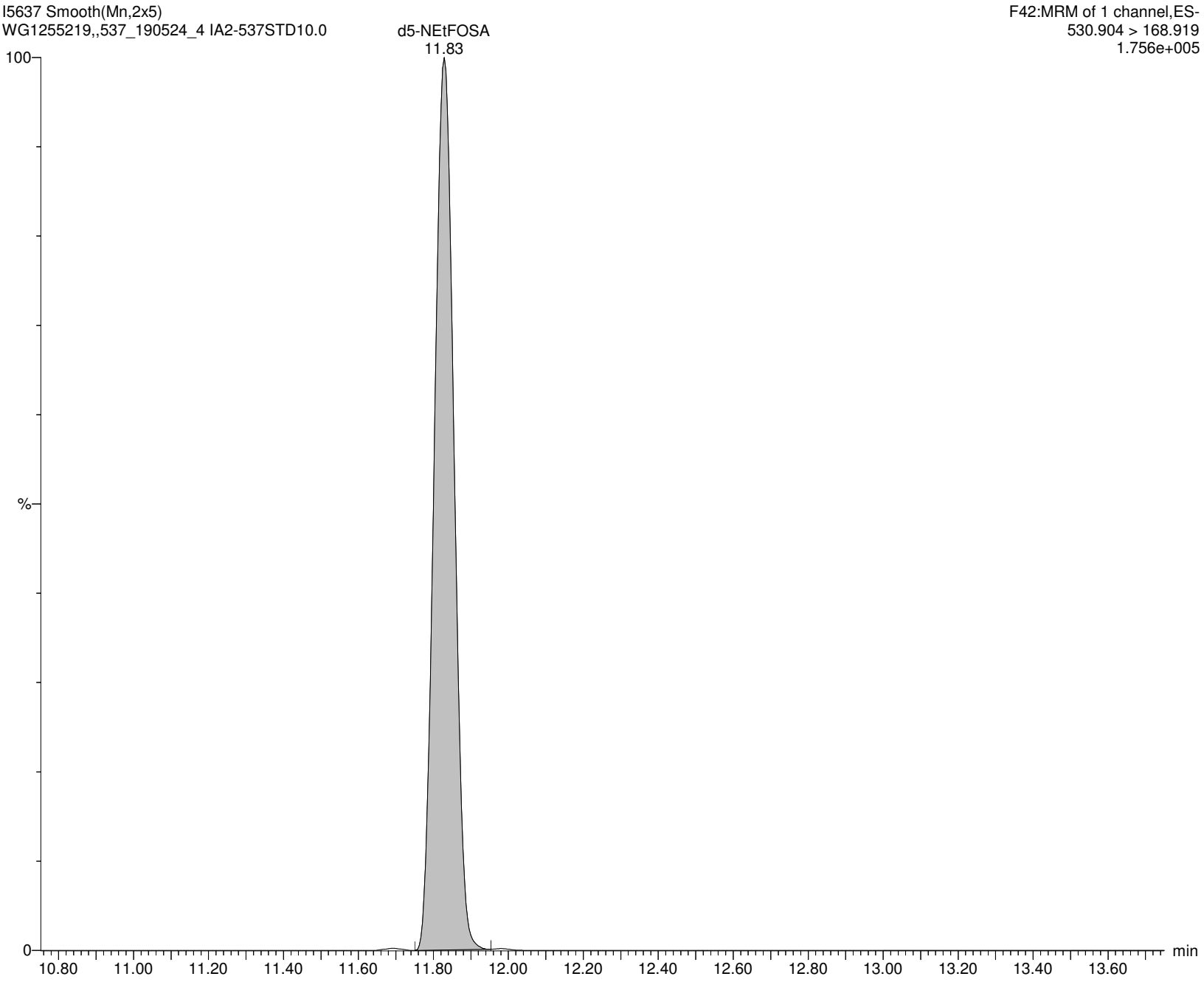


all concentration units in (ng/mL)

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d5-NEtFOSA

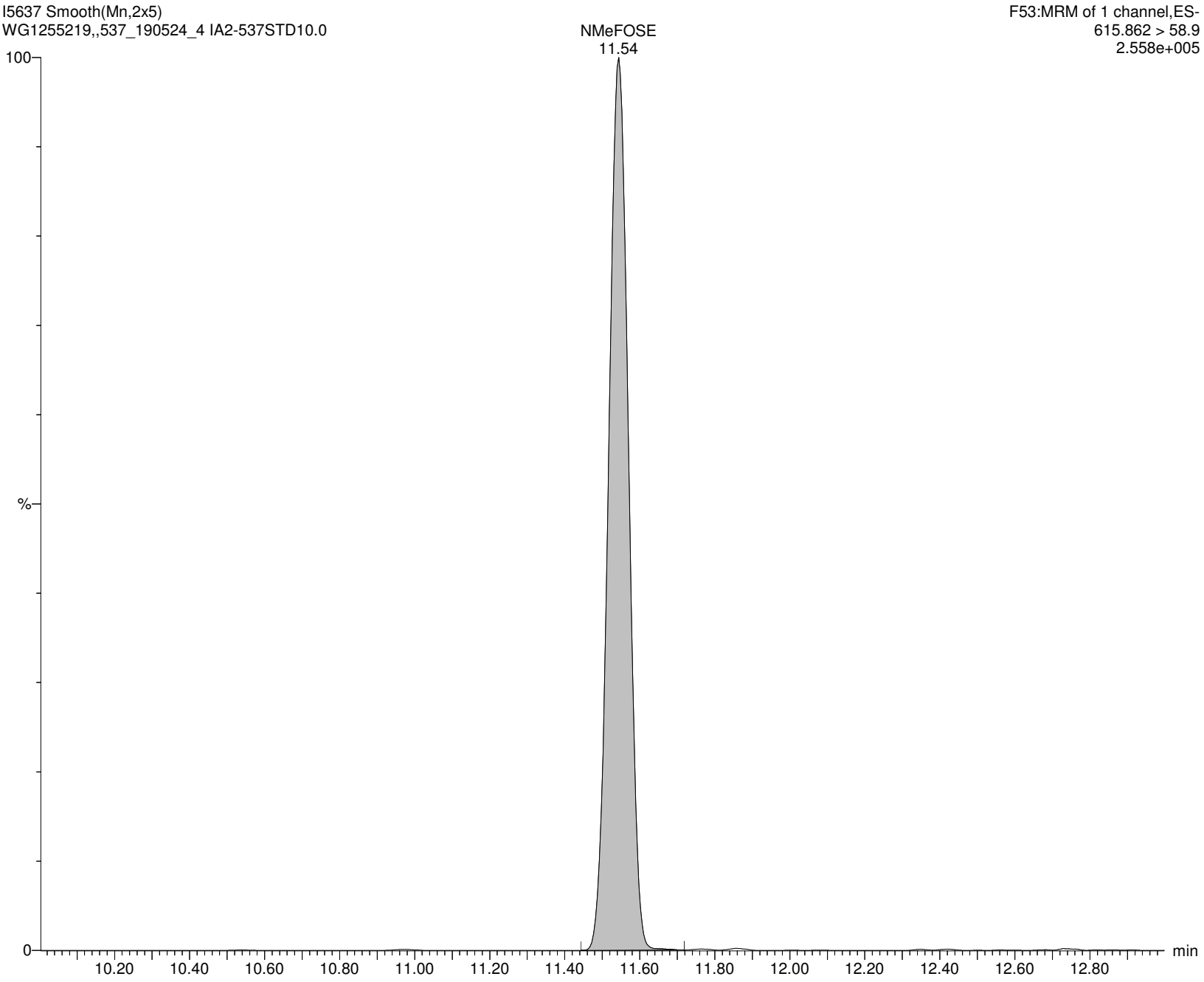


all concentration units in (ng/mL)

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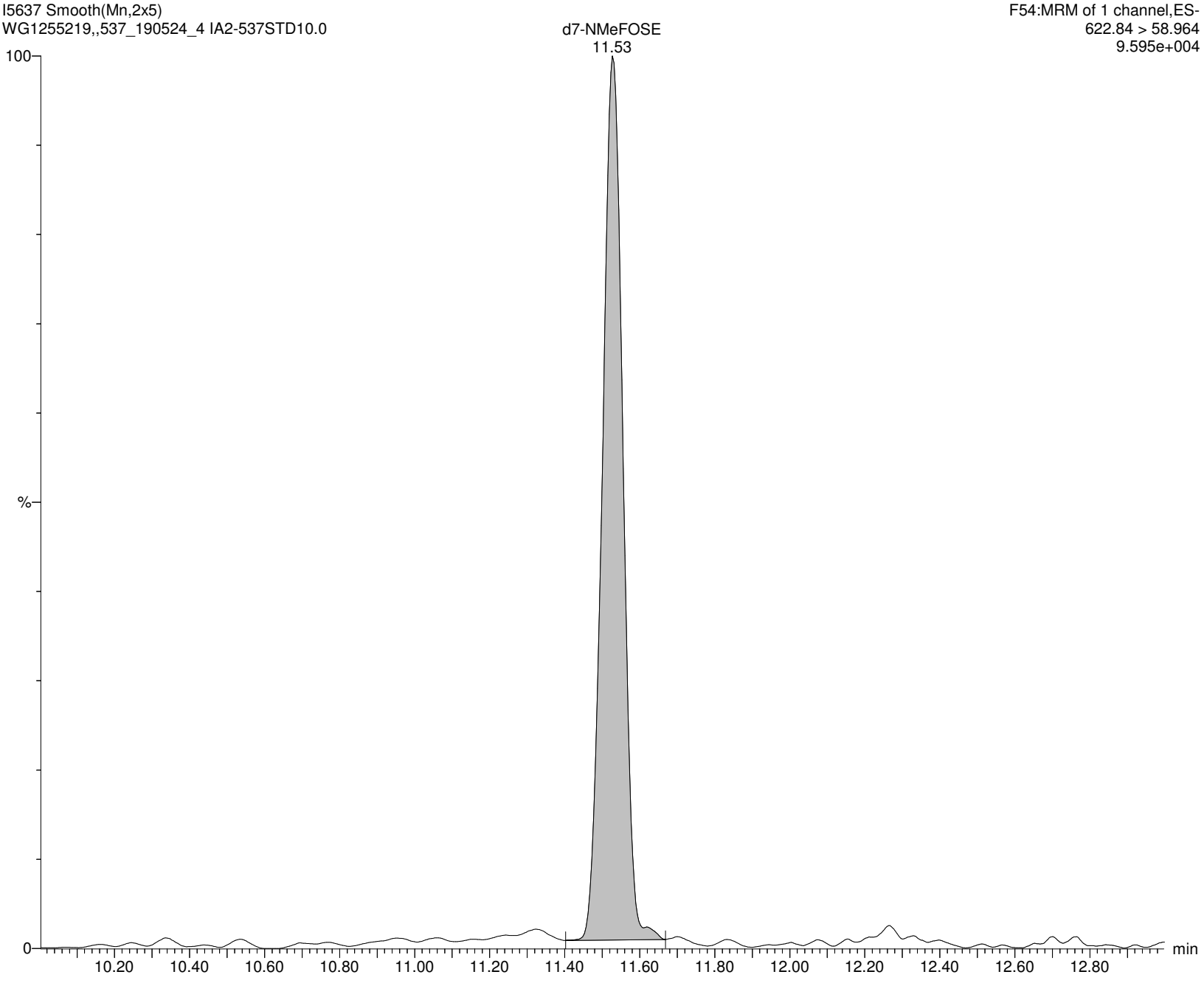


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d7-NMeFOSE

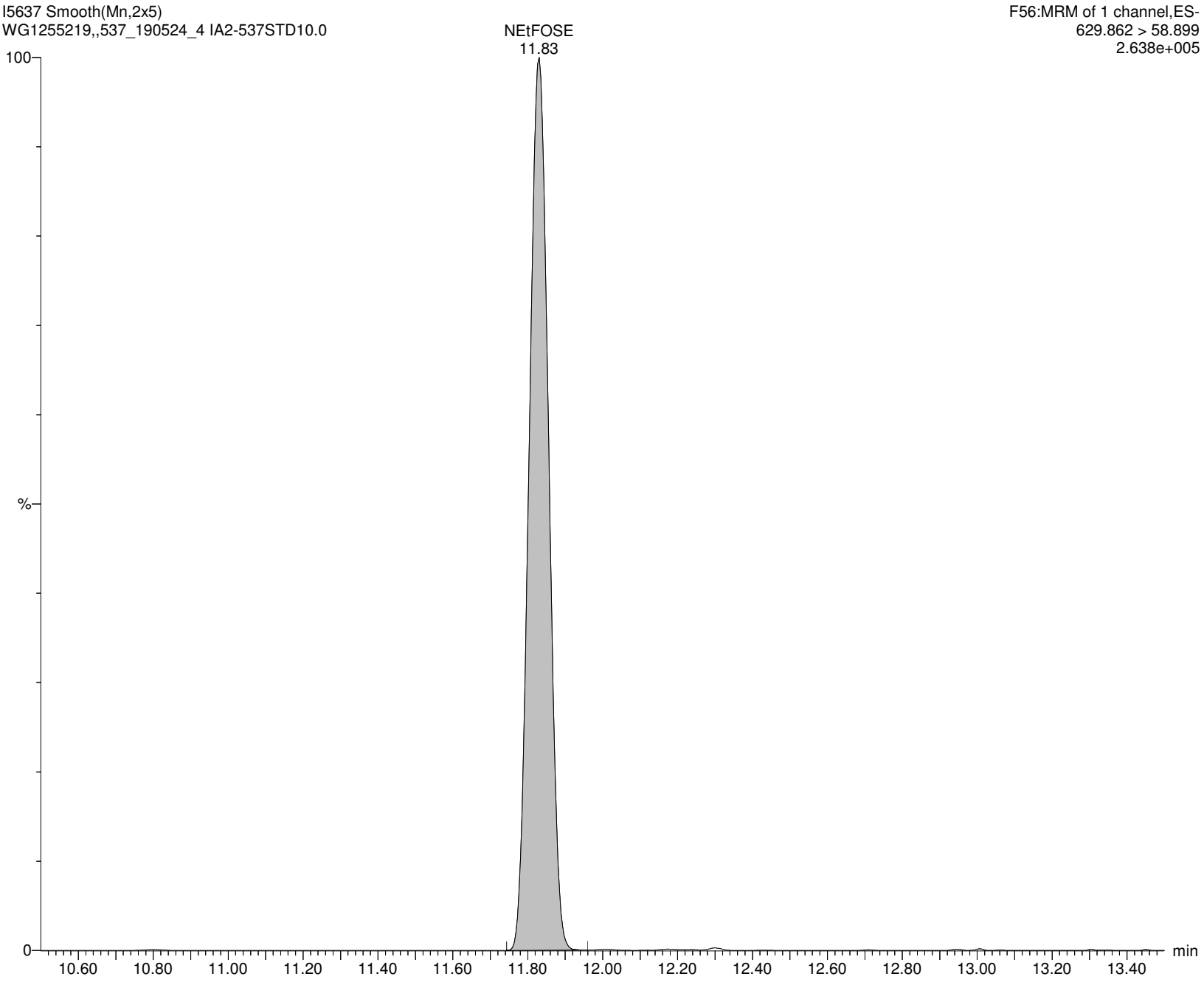


all concentration units in (ng/mL)

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NEtFOSE

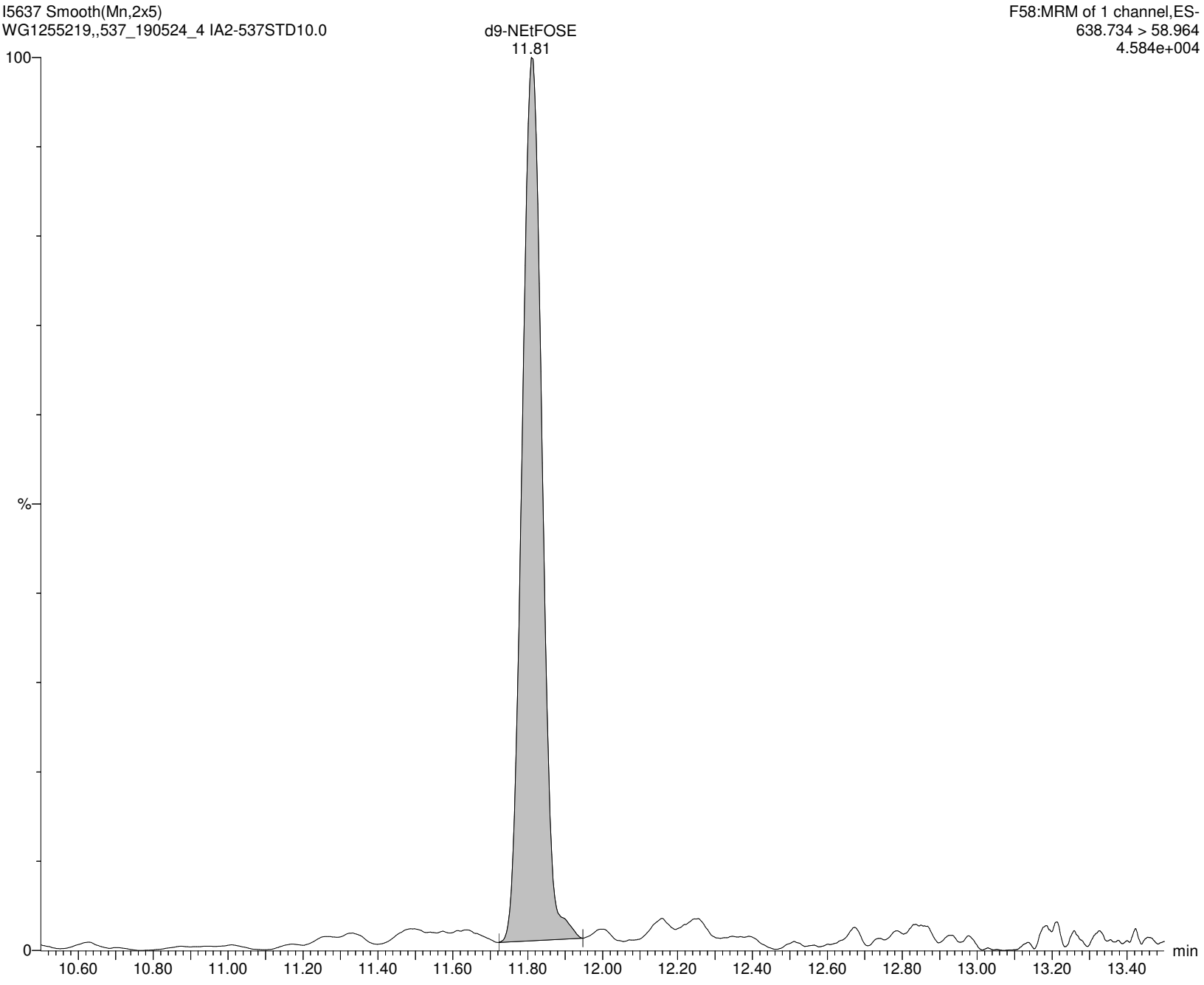


all concentration units in (ng/mL)

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Date: 01-Jul-2019
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Vial: 1:A,5
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MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

d9-NEtFOSE



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:38 Eastern Daylight Time

Method: C:\MassLynx\Data\2019\190701_537ISO.PRO\MethDB\537ISO_Q_190702_DOD.mdb 17 Jun 2019 11:52:40
Calibration: C:\MassLynx\Data\2019\190701_537ISO.PRO\CurveDB\190702_ISO_ICAL.cdb 02 Jul 2019 11:07:37

ID: IA2-537STD50.0
Name: I5638
Date: 01-Jul-2019
Time: 19:03:37
Description: WG1255219,,537_190524_5
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
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MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.10	212.926 > 169.111	189769		47.372		na	94.7
2	M3PFBA	INT STD	2.10	215.926 > 172.122	39196		10.134		na	101.3
3	MPFBA	INT STD	2.10	216.926 > 172.137	44025		10.016		na	100.2
4	PFPeA	2706-90-3	4.98	262.926 > 219.002	303325		47.108		na	94.2
5	M5PFPEA	INT STD	4.98	267.989 > 223.081	62748		10.086		na	100.9
6	PFBS	375-73-5	5.64	298.926 > 79.923	61247		39.945	1.85	YES	90.3
7	M3PFBS	INT STD	5.64	301.989 > 80.254	10305		9.932		na	99.3
8	4:2FTS	757124-72-4	6.82	326.926 > 306.957	26636		47.370	2.21	NO	101.3
9	M2-4:2FTS	INT STD	6.82	329.117 > 309.079	6180		9.940		na	99.4
10	PFHxA	307-24-4	6.90	312.989 > 269.028	362982		46.437	18.16	NO	92.9
11	M5PFHxA	INT STD	6.90	317.989 > 273.045	79074		10.253		na	102.5
12	PFPeS	2706-91-4	7.22	348.926 > 80.251	47963		42.100	1.87	NO	89.6
13	PFHpA	375-85-9	8.19	362.926 > 319.014	474417		47.481	5.85	NO	95.0
14	M4PFHpA	INT STD	8.19	366.926 > 321.979	100214		10.199		na	102.0
15	br-PFHxS	355-46-4	8.12	398.926 > 80.295	6460	M5	9.000	2.38	NO	105.9
16	L-PFHxS	355-46-4	8.36	398.926 > 80.295	29571		34.156	1.18	NO	92.3
17	PFHxS	355-46-4		398.926 > 80.295	36031		43.156		na	
18	M3PFHxS	INT STD	8.36	401.926 > 80.317	6392		9.940		na	99.4
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	YES	
20	L-PFOA	335-67-1	9.15	412.989 > 368.9	436320		46.993	9.36	NO	94.0
21	M2PFOA	INT STD	9.15	415.032 > 369.968	91479		10.033		na	100.3
22	PFOA	335-67-1		412.989 > 368.9	436320		46.993		na	
23	M8PFOA	INT STD	9.15	420.989 > 375.979	93544		10.292		na	102.9
24	6:2FTS	27619-97-2	9.10	426.989 > 406.921	19744		50.087	8.70	NO	105.4
25	M2-6:2FTS	INT STD	9.10	428.989 > 408.917	5605		10.004		na	100.0
26	PFHpS	375-92-8	9.24	448.926 > 80.257	27697		47.998	0.94	NO	101.0
27	PFNA	375-95-1	9.90	462.989 > 418.931	369406		47.694	4.25	NO	95.4
28	M9PFNA	INT STD	9.90	472.053 > 426.947	85371		10.143		na	101.4
29	br-PFOS	1763-23-1	9.77	498.989 > 80.294	10232	M5	10.465	4.54	NO	104.6
30	L-PFOS	1763-23-1	9.96	498.989 > 80.294	30384		36.650	1.51	NO	100.4
31	PFOS	1763-23-1		498.989 > 80.294	40616		47.114		na	
32	M4PFOS	INT STD	9.96	503.032 > 80.306	7795		10.481		na	104.8
33	M8PFOS	INT STD	9.96	507.053 > 80.294	8044		9.581		na	95.8
34	PFDA	335-76-2	10.53	513.053 > 468.906	350571		48.681	6.29	NO	97.4
35	M2PFDA	INT STD	10.53	515.053 > 469.934	71663		10.019		na	100.2
36	M6PFDA	INT STD	10.53	519.053 > 473.931	79648		9.940		na	99.4
37	8:2FTS	39108-34-4	10.52	526.926 > 506.818	13880		46.756		na	97.4
38	M2-8:2FTS	INT STD	10.53	529.053 > 508.945	3312		10.772		na	107.7
39	PFNS	68259-12-1	10.56	548.989 > 80.249	39739		49.744	1.29	NO	103.6

all concentration units in (ng/mL)

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ID: IA2-537STD50.0
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Date: 01-Jul-2019
Time: 19:03:37
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User: LCMS02:JW
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MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.91	573.096 > 418.987	8111		10.200		na	102.0
41	NMeFOSAA	2355-31-9	10.91	570.053 > 418.917	39598		48.067	2.62	NO	96.1
42	PFUnA	2058-94-8	11.07	562.989 > 518.903	352599		46.799	7.97	NO	93.6
43	M7-PFUDA	INT STD	11.07	570.053 > 524.923	73370		10.355		na	103.6
44	PFDS	335-77-3	11.09	598.926 > 80.314	30540		51.540	1.05	YES	106.8
45	FOSA	754-91-6	10.92	497.989 > 78.245	128646		46.448	131.21	NO	92.9
46	M8FOSA	INT STD	10.92	506.053 > 78.286	24117		10.113		na	101.1
47	d5-NEtFOSAA	INT STD	11.19	589.117 > 418.929	7552		10.481		na	104.8
48	NEtFOSAA	2991-50-6	11.20	583.989 > 418.927	33831		44.304	2.72	NO	88.6
49	PFDoA	307-55-1	11.55	612.989 > 568.967	371732		48.745	14.78	NO	97.5
50	MPFDOA	INT STD	11.55	614.989 > 569.92	79468		10.130		na	101.3
51	PFTrDA	72629-94-8	11.96	663.053 > 618.969	391243		54.633	11.35	NO	109.3
52	PFTA	376-06-7	12.32	713.053 > 668.976	282667		49.225	9.10	NO	98.4
53	M2PFTEDA	INT STD	12.32	715.053 > 669.945	66027		9.961		na	99.6
54	M3HFPO-DA	INT STD	7.33	331.989 > 286.995	46996		198.728		na	99.4
55	HFPO-DA	13252-13-6	7.33	284.819 > 169.094	60897		983.489	2.60	YES	98.3
56	ADONA	958445-44-8	8.38	376.926 > 251.005	627851		46.717		na	98.7
57	PFHxDA		12.74	813.053 > 769.005	277563		50.324		na	100.6
58	PFODA		12.96	912.989 > 869.032	223735		50.624		na	101.2
59	M2PFHxDA		12.74	815.372 > 770.158	21451		10.623		na	106.2
60	PFDoS		11.95	698.649 > 79.853	21874		56.007	2.15	YES	112.0
61	10:2FTS		11.56	626.862 > 606.896	15263		48.282		na	100.2
62	9CL-PF3ONS		10.31	530.862 > 350.843	255808		46.999		na	100.9
63	11CL-PFOUdS		11.35	630.862 > 450.854	221513		46.204		na	98.1
64	NMeFOSA		11.54	511.804 > 168.906	40951		51.323	1.49	NO	102.6
65	d3-NMeFOSA		11.53	514.84 > 168.917	8533		10.330		na	103.3
66	NEtFOSA		11.84	525.84 > 168.92	46528		49.802	5.59	NO	99.6
67	d5-NEtFOSA		11.82	530.904 > 168.919	10562		9.873		na	98.7
68	NMeFOSE		11.54	615.862 > 58.9	74594		49.146		na	98.3
69	d7-NMeFOSE		11.52	622.84 > 58.964	6000		10.385		na	103.8
70	NEtFOSE		11.82	629.862 > 58.899	77210		54.506		na	109.0
71	d9-NEtFOSE		11.81	638.734 > 58.964	2725		9.563		na	95.6

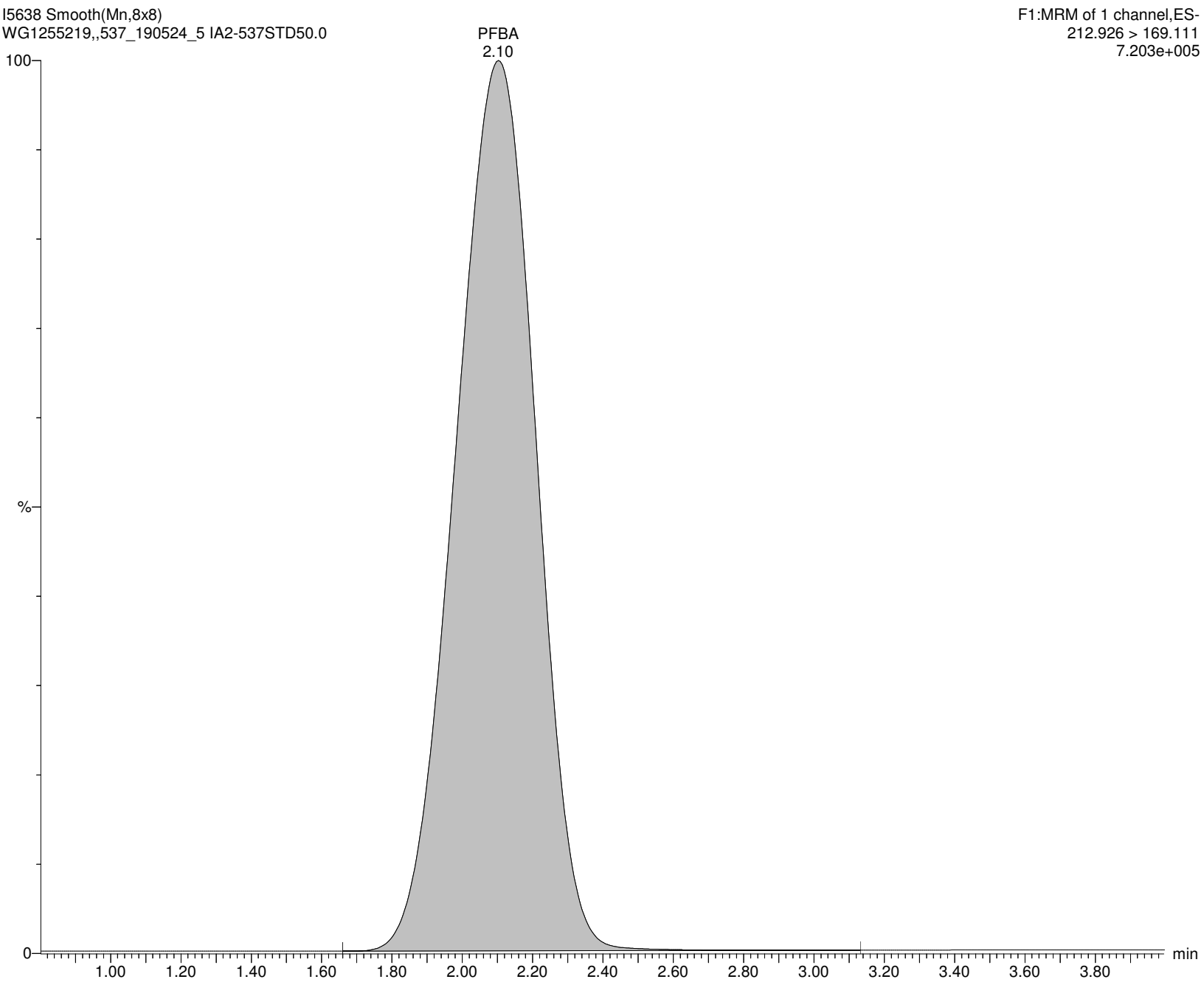
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:38 Eastern Daylight Time

Method: C:\MassLynx\Data\2019\190701_537ISO.PRO\MethDB\537ISO_Q_190702_DOD.mdb 17 Jun 2019 11:52:40
Calibration: C:\MassLynx\Data\2019\190701_537ISO.PRO\CurveDB\190702_ISO_ICAL.cdb 02 Jul 2019 11:07:37

Name: I5638
ID: IA2-537STD50.0
Date: 01-Jul-2019
Time: 19:03:37
Description: WG1255219,,537_190524_5
User: LCMS02:JW
Vial: 1:A,6
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

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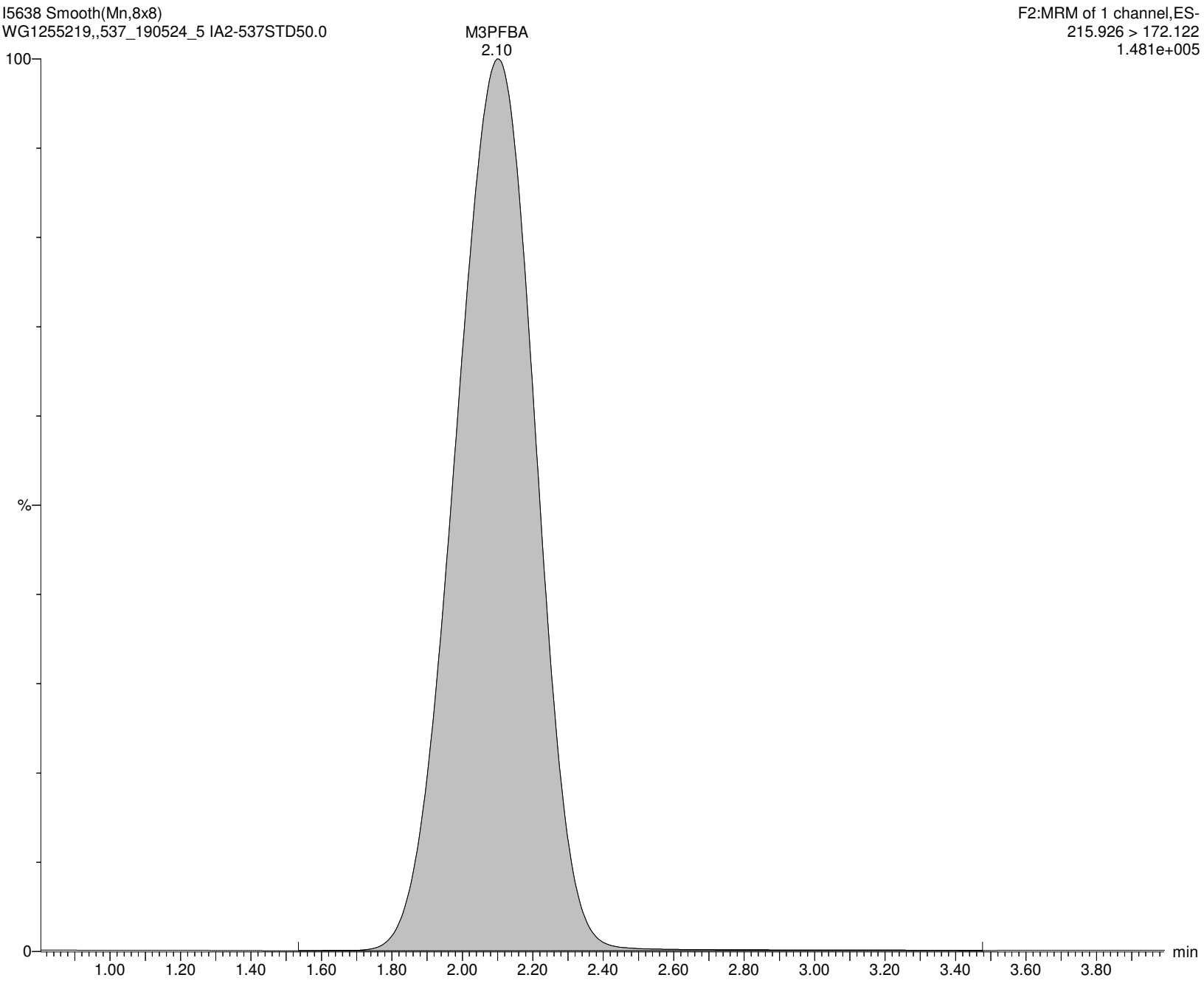


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
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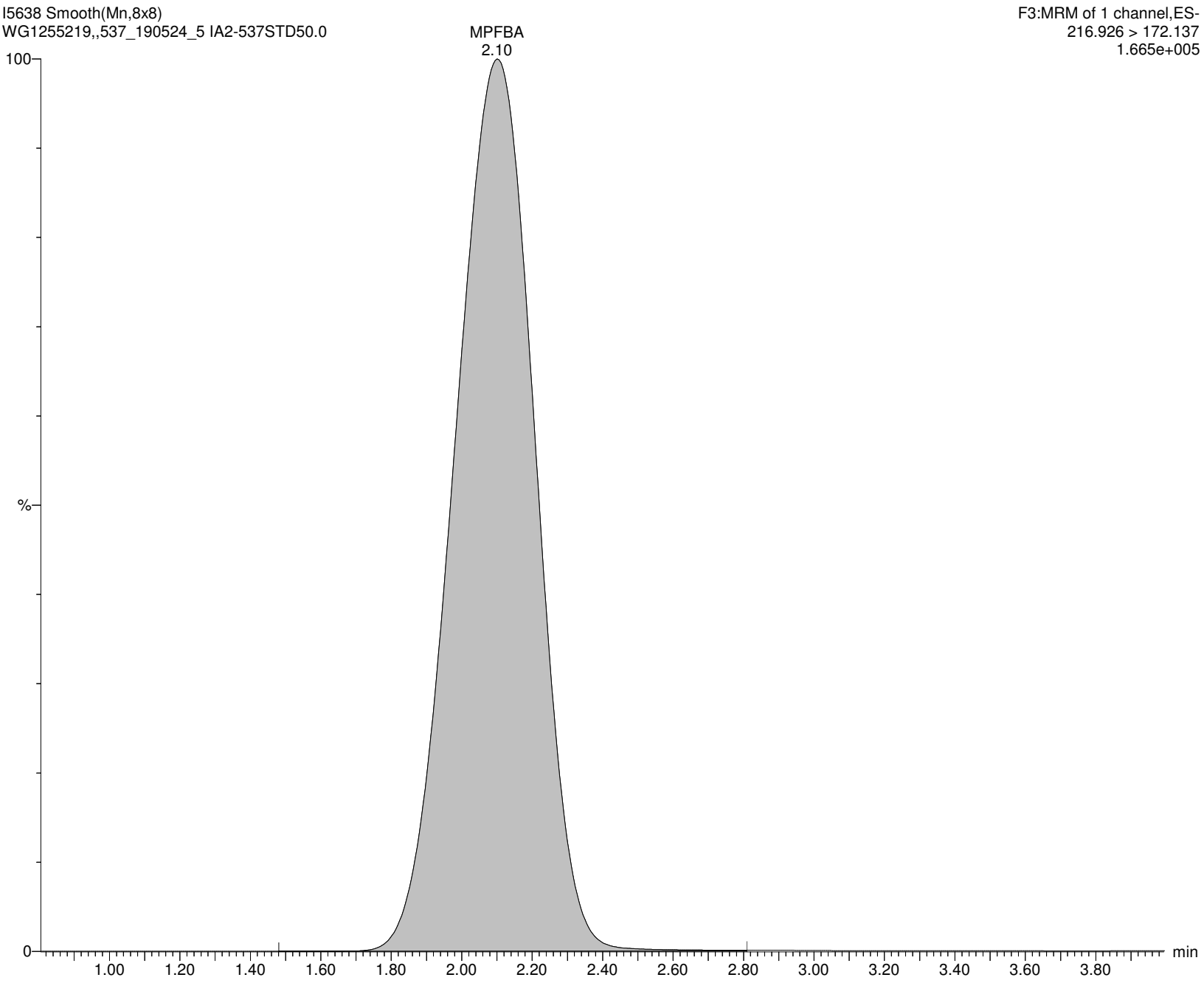


all concentration units in (ng/mL)

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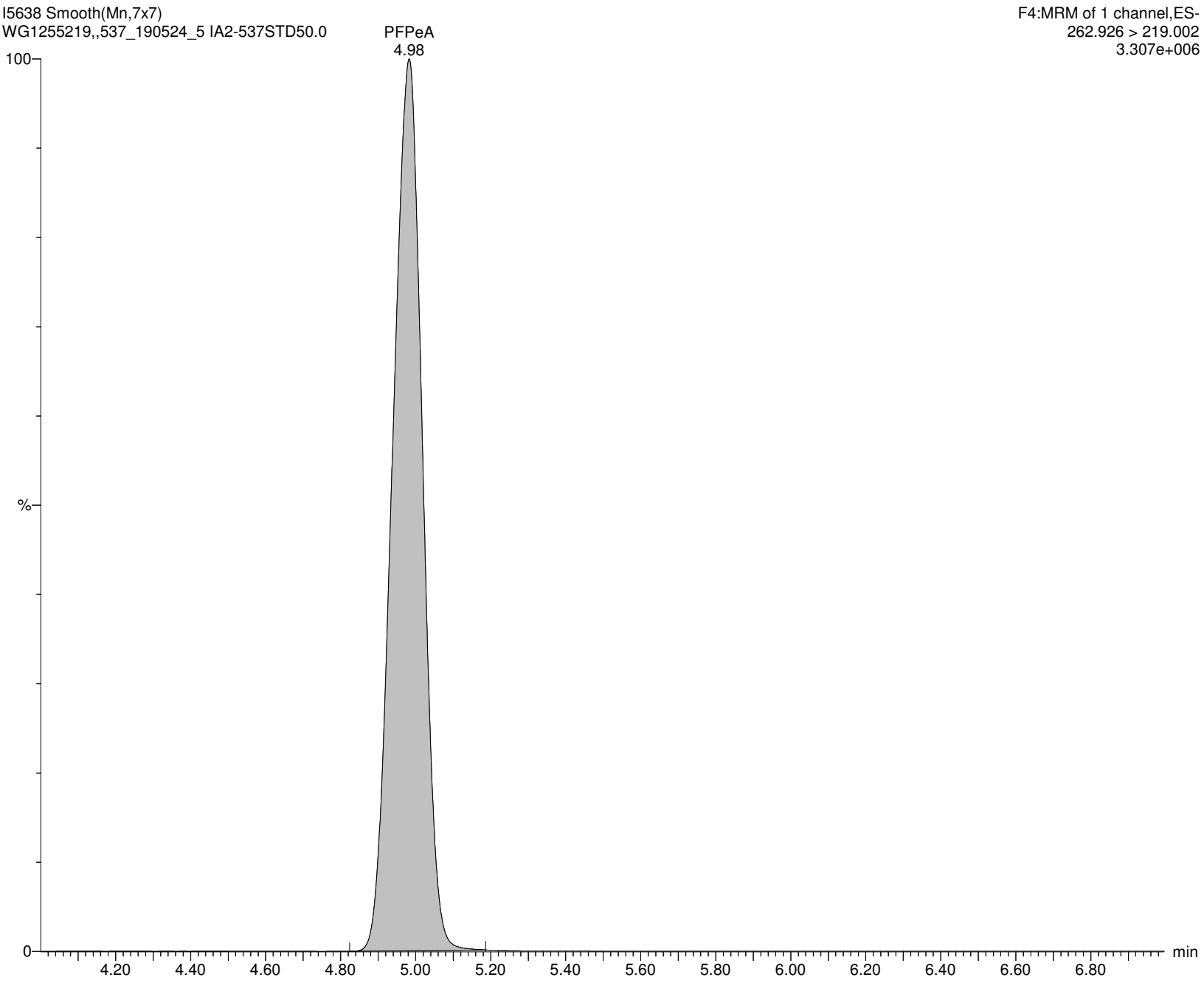


all concentration units in (ng/mL)

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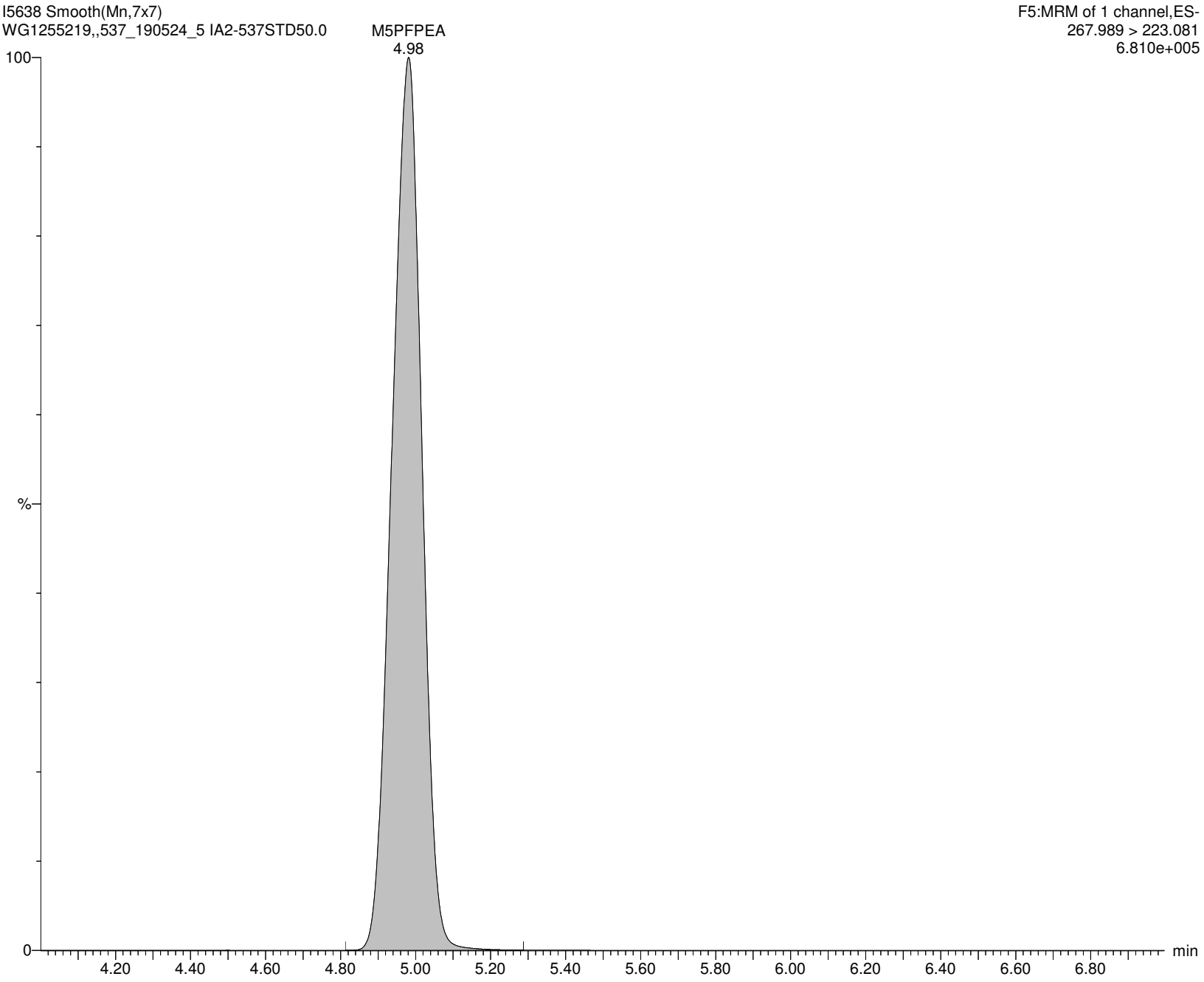


all concentration units in (ng/mL)

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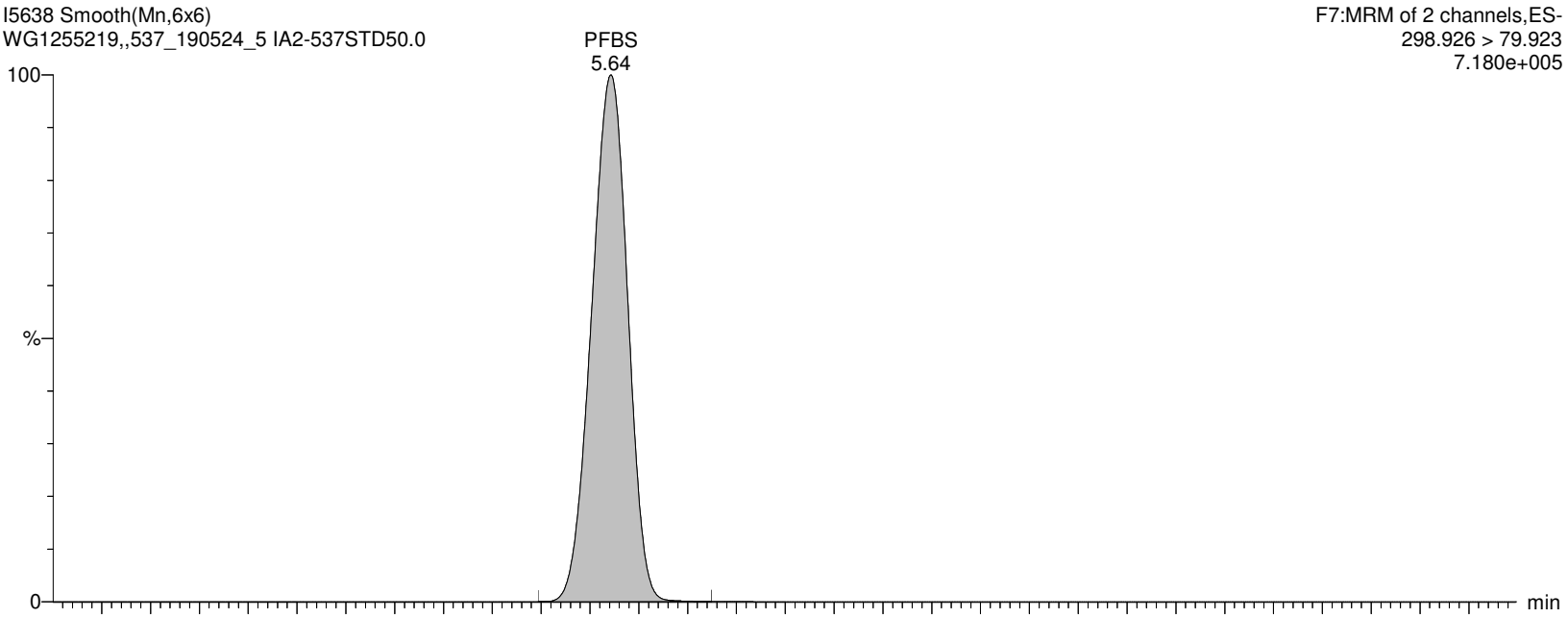


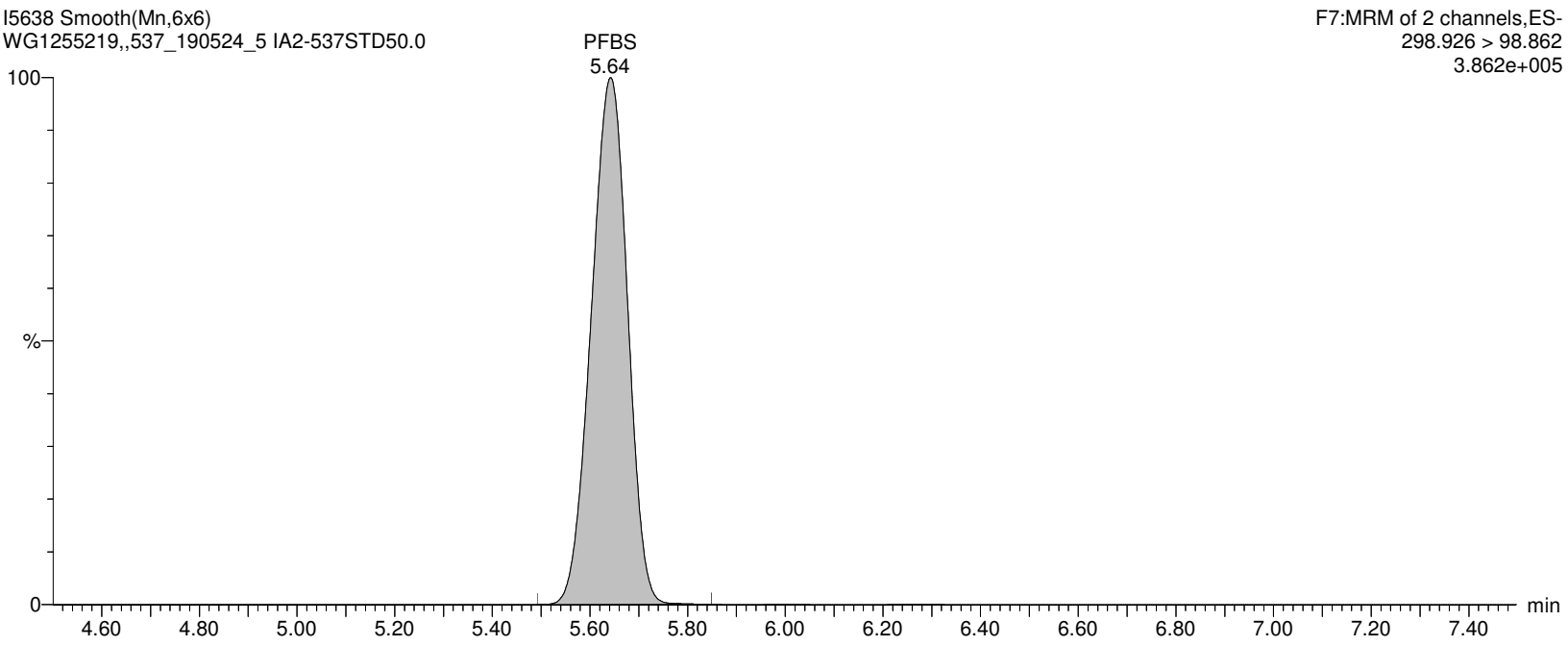
all concentration units in (ng/mL)

Alpha Analytical Inc.
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PFBS



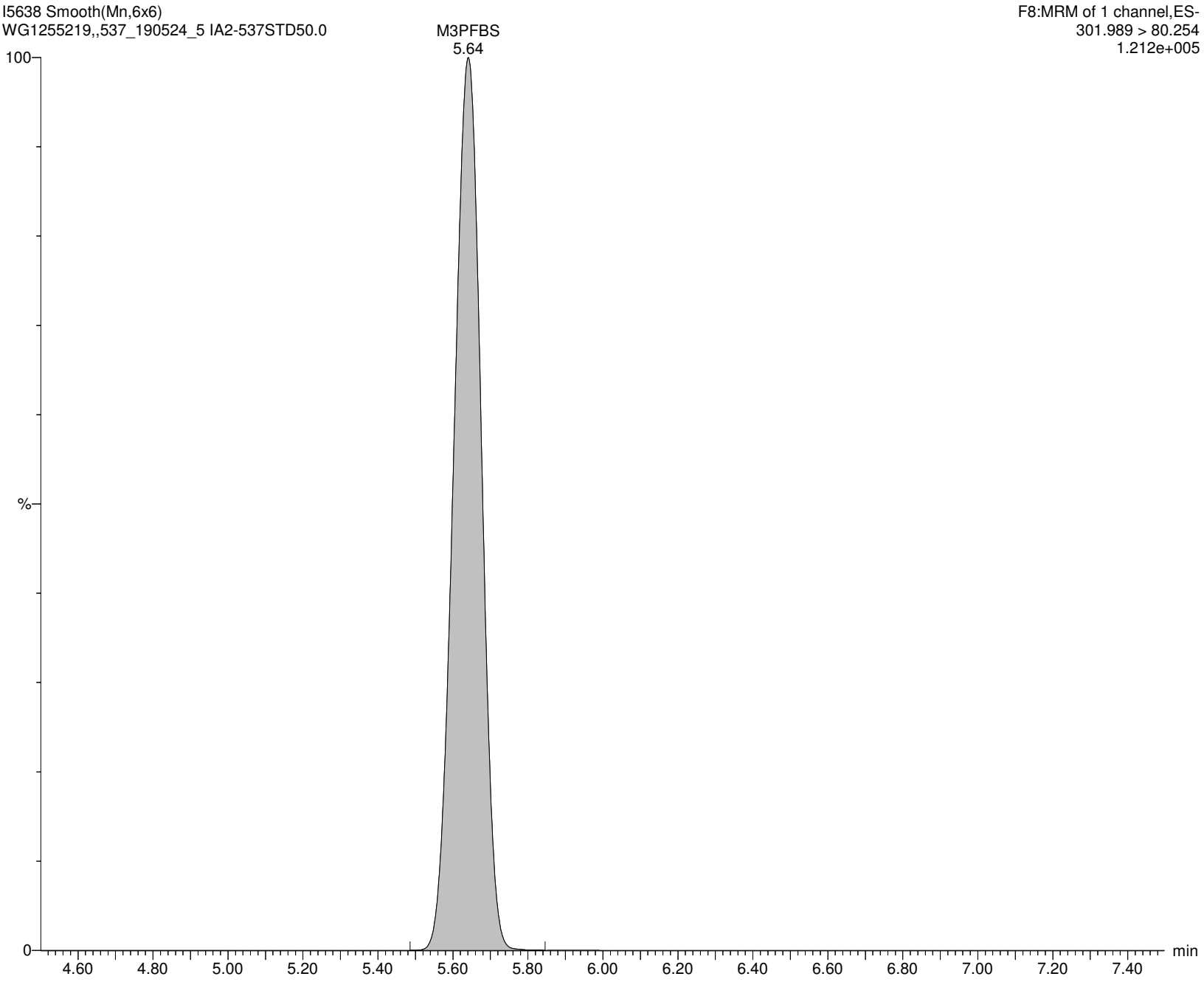


all concentration units in (ng/mL)

Alpha Analytical Inc.
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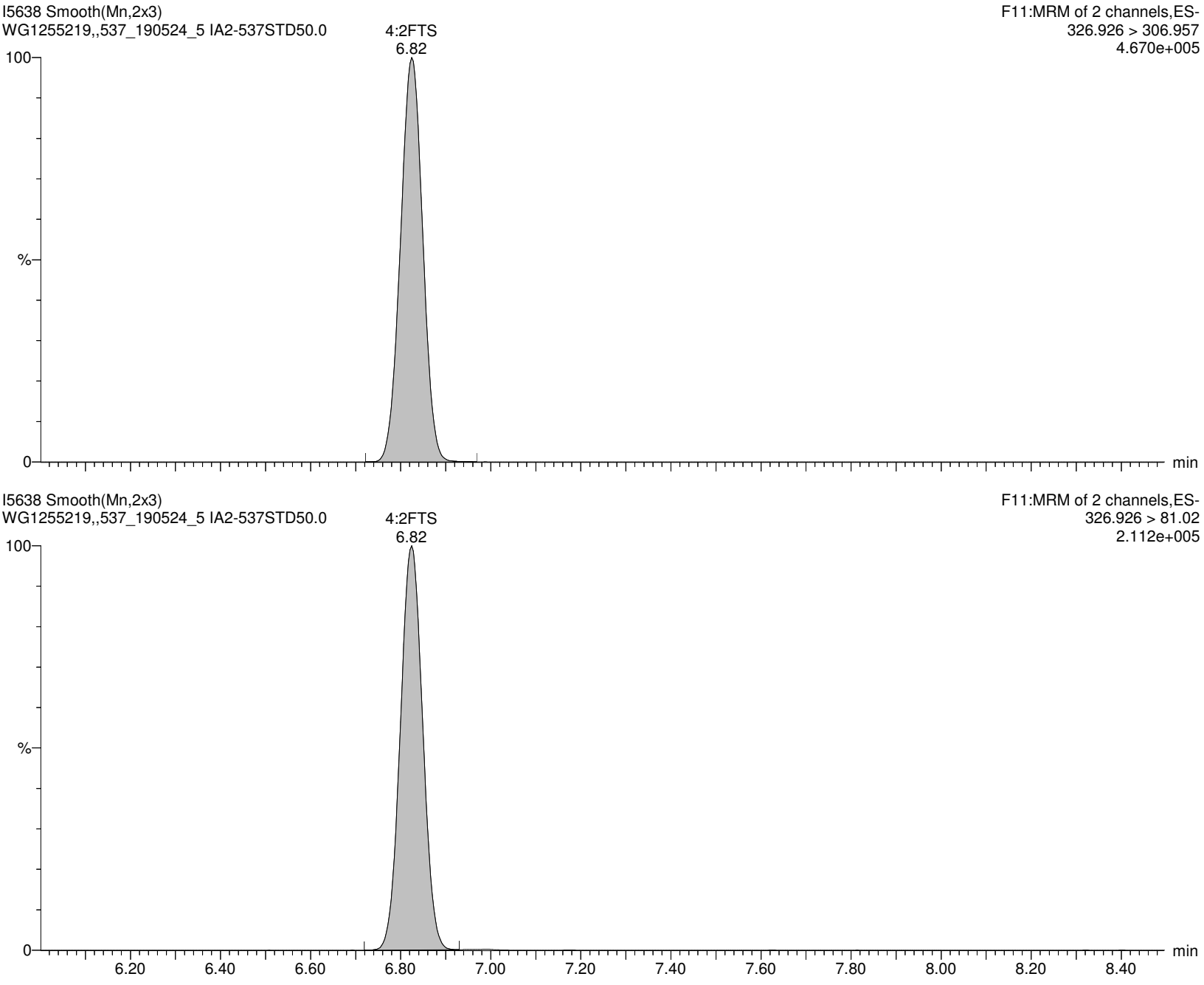


all concentration units in (ng/mL)

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4:2FTS

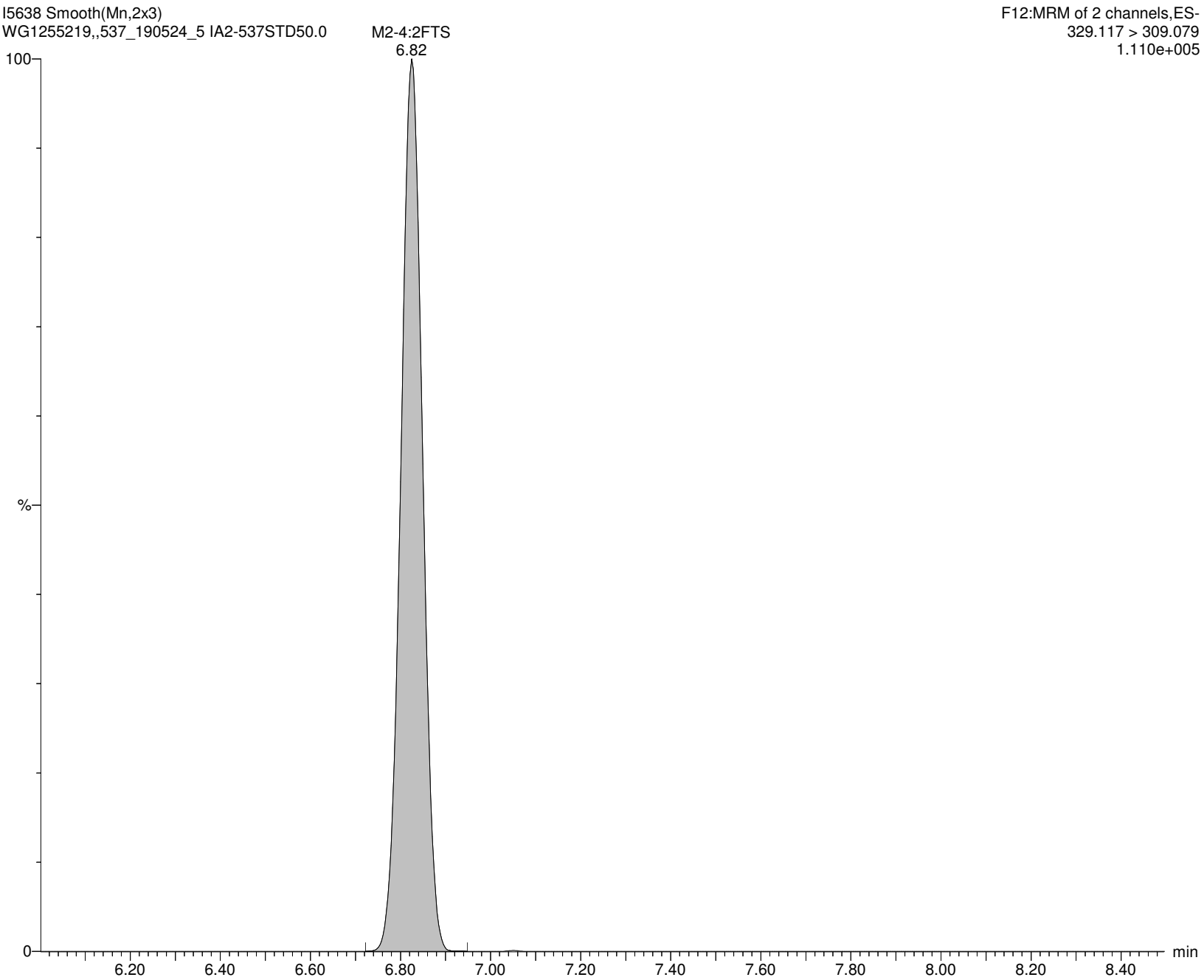


all concentration units in (ng/mL)

Alpha Analytical Inc.
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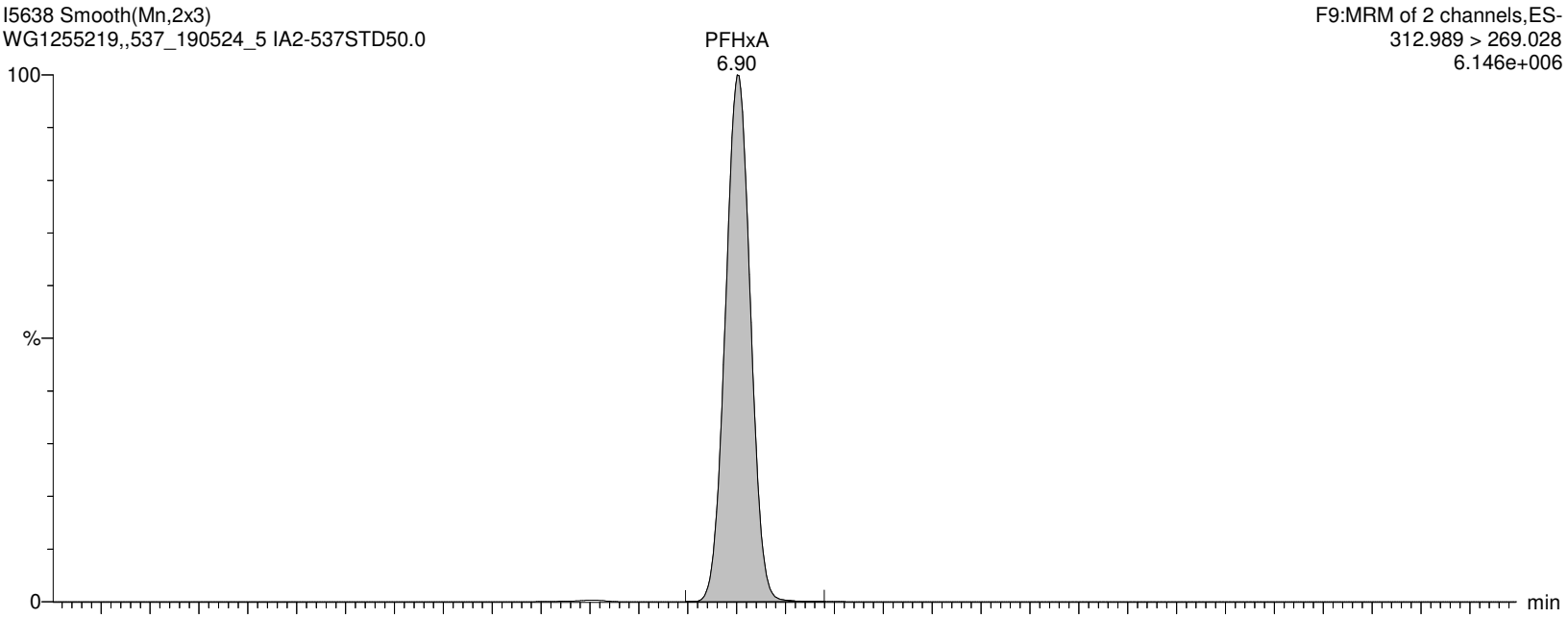


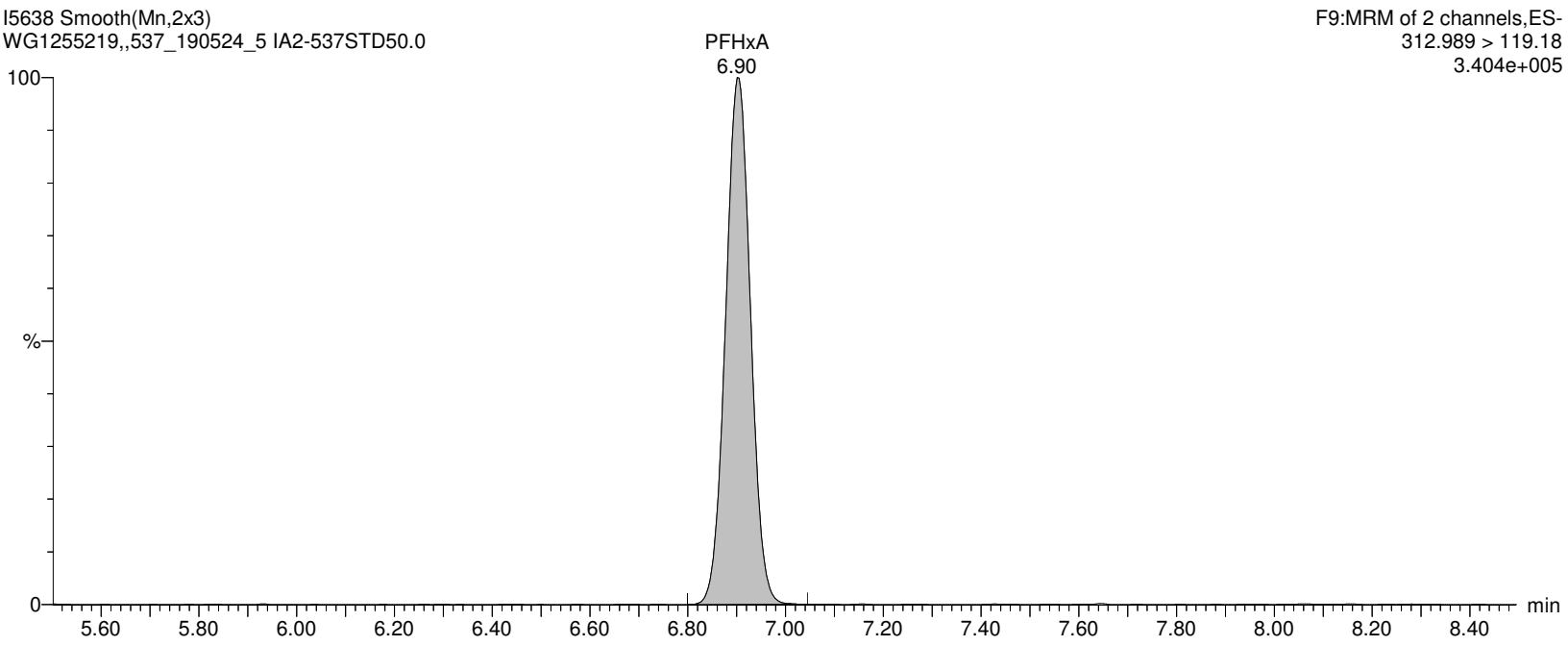
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Date: 01-Jul-2019
Time: 19:03:37
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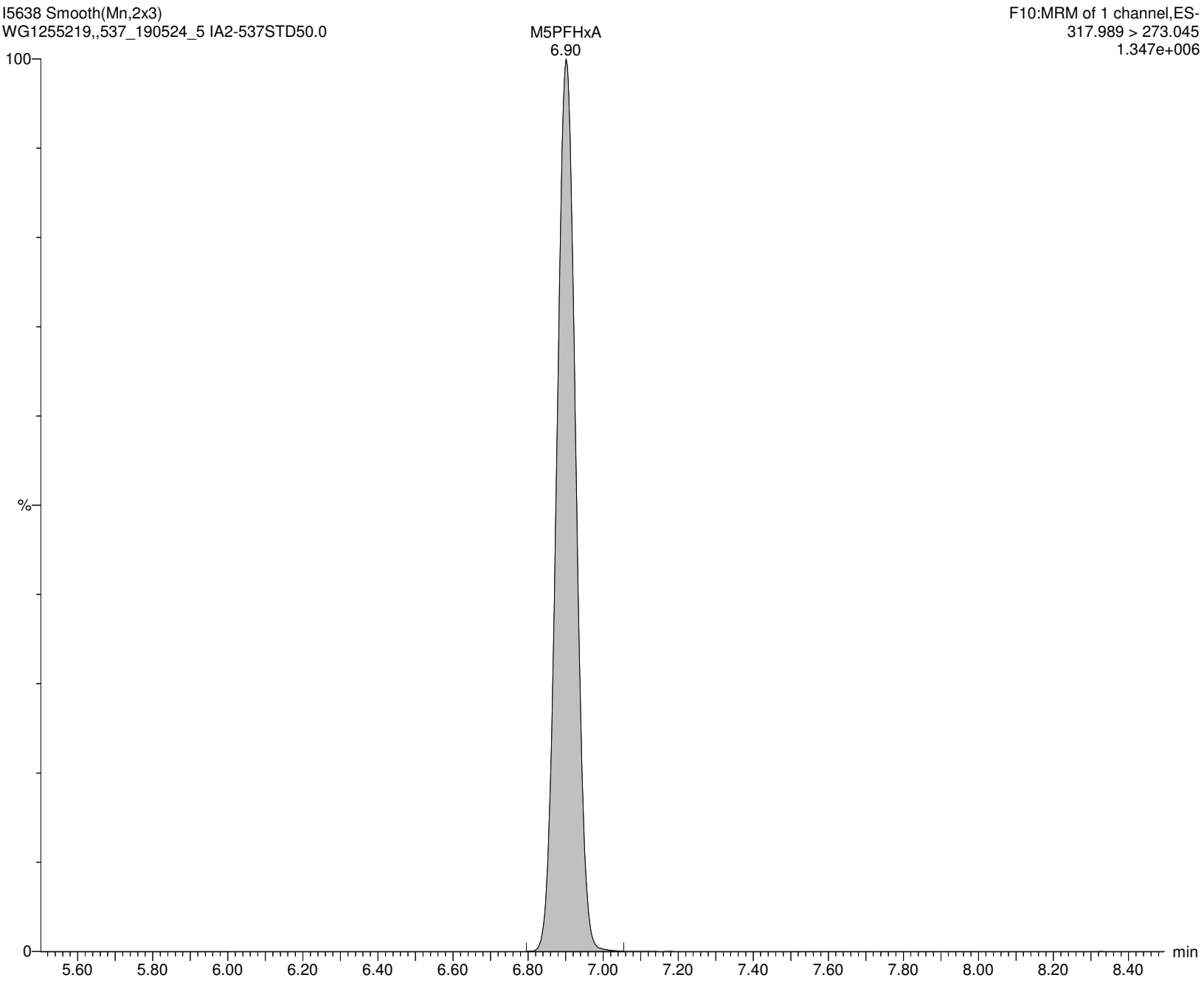


all concentration units in (ng/mL)

Alpha Analytical Inc.
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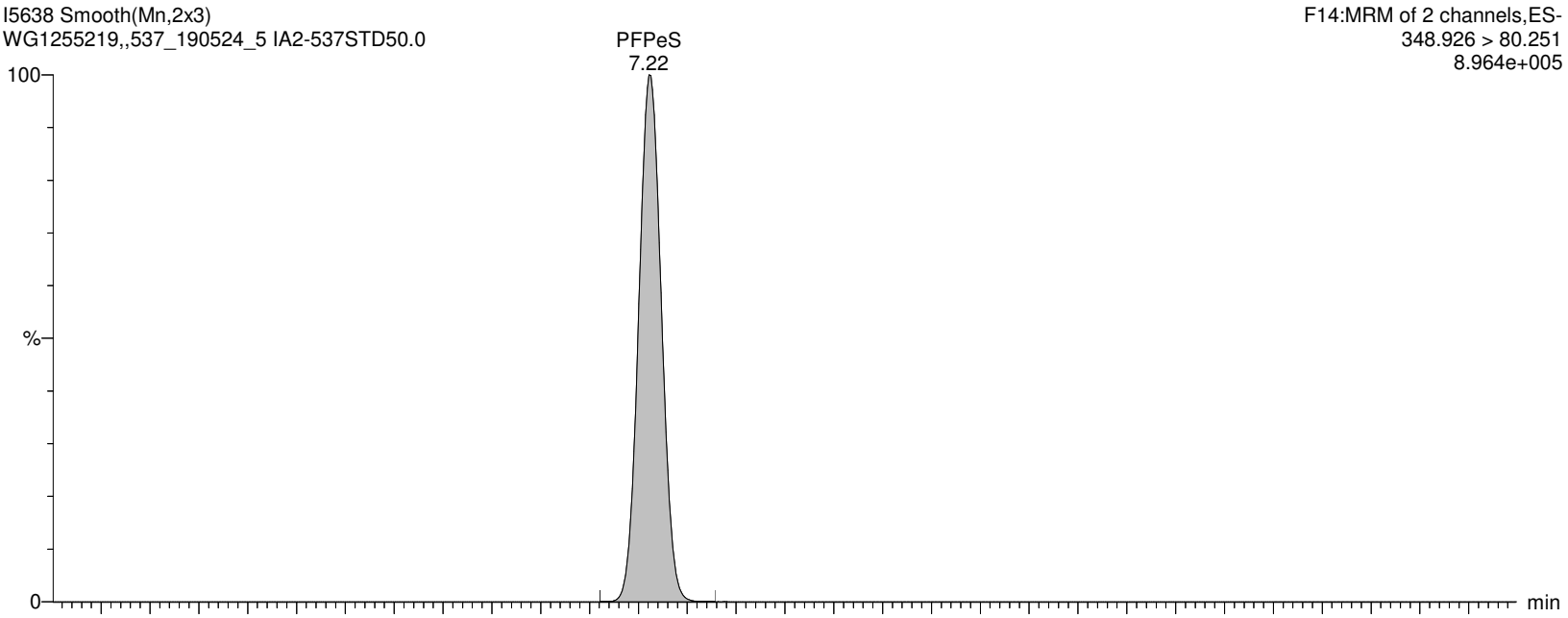


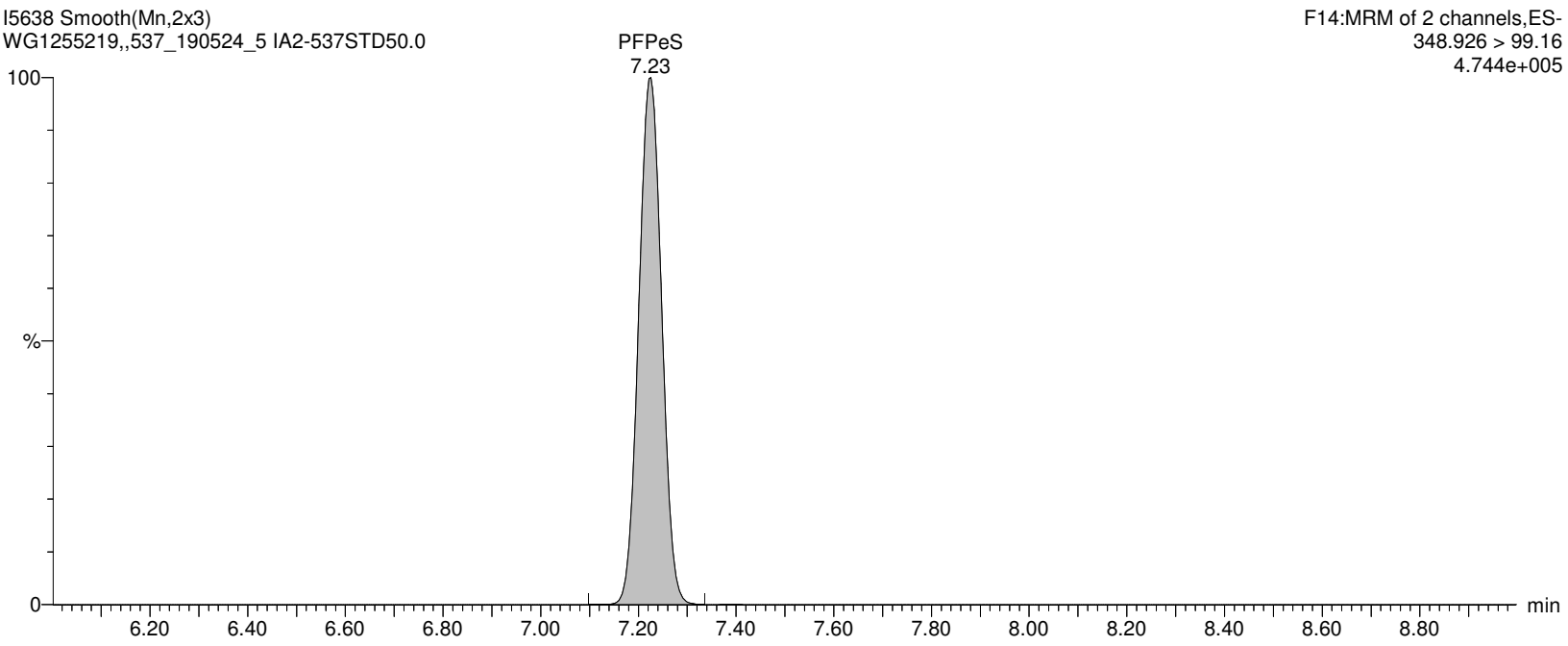
all concentration units in (ng/mL)

Alpha Analytical Inc.
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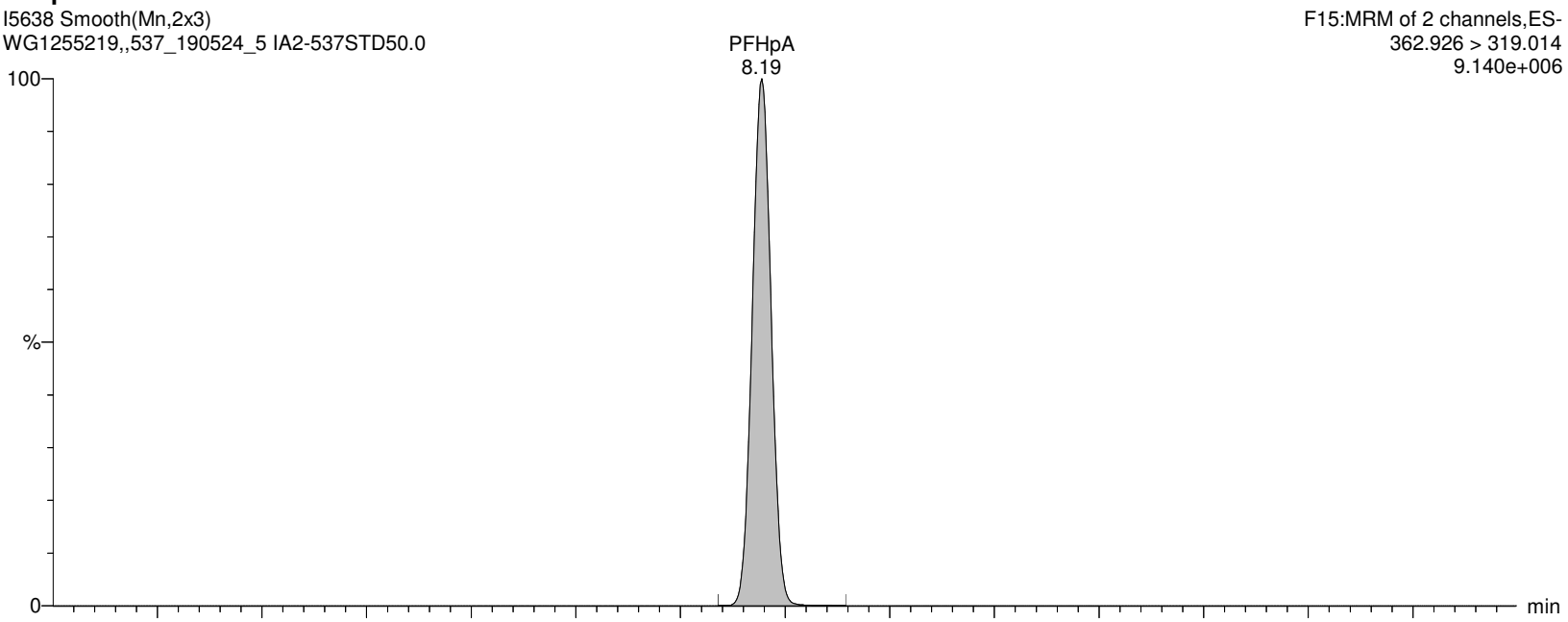


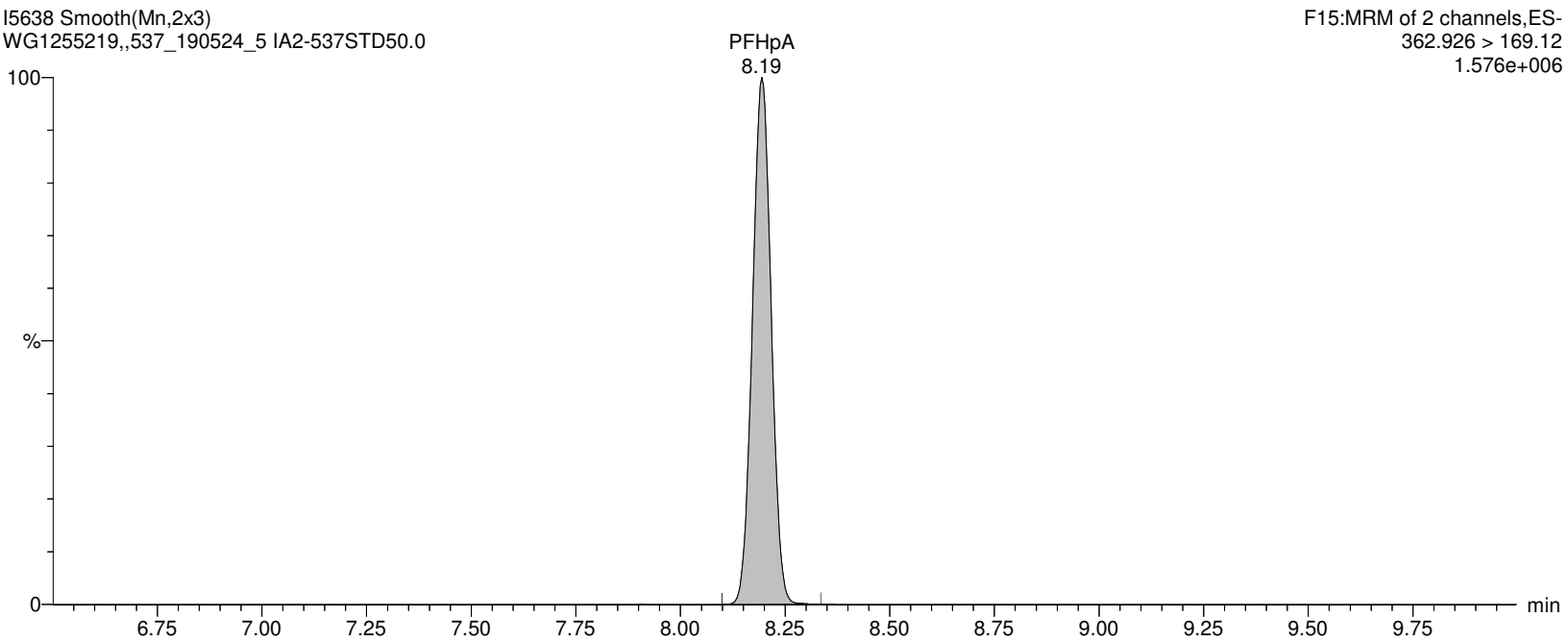
all concentration units in (ng/mL)

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PFHpA



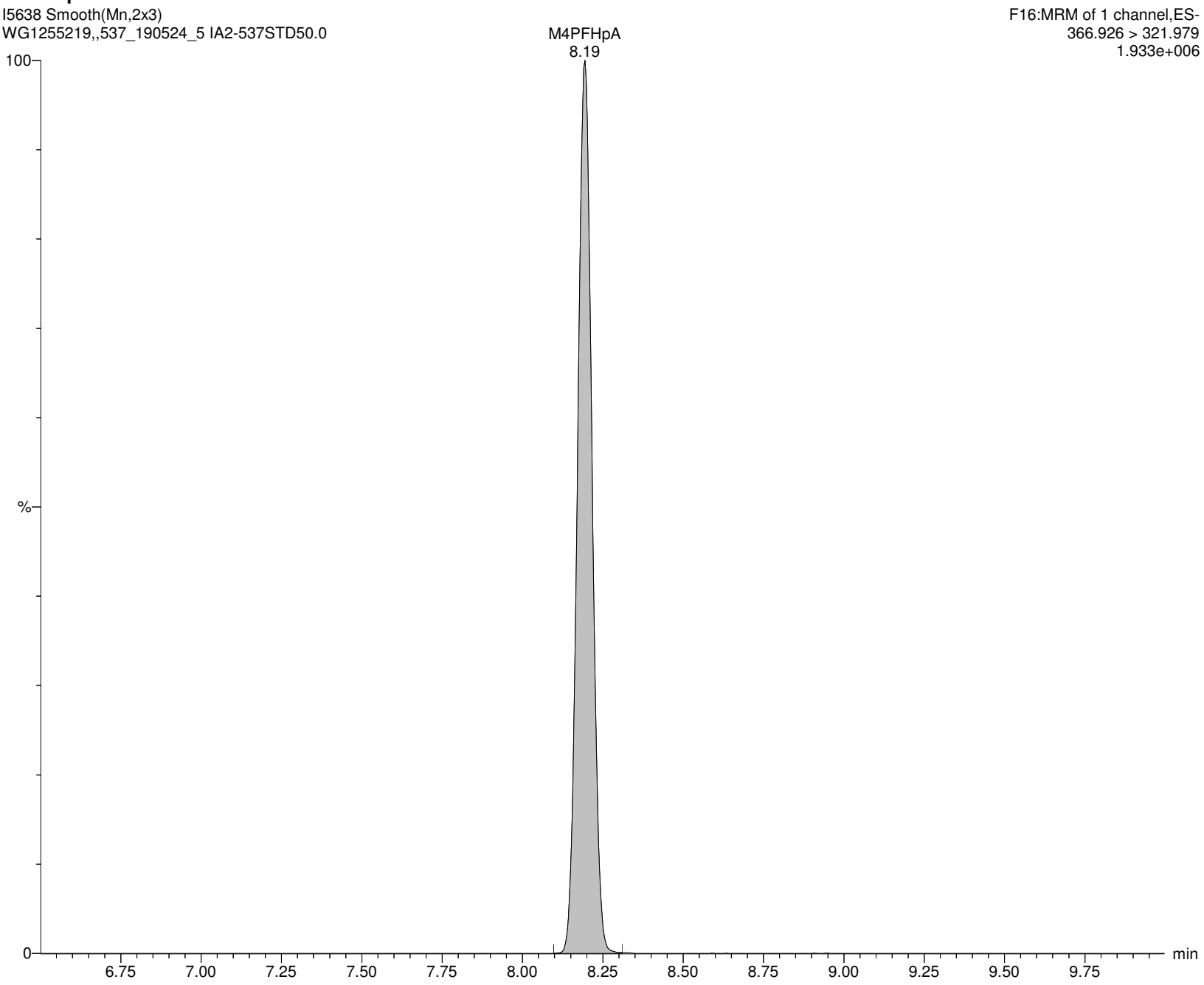


all concentration units in (ng/mL)

Alpha Analytical Inc.
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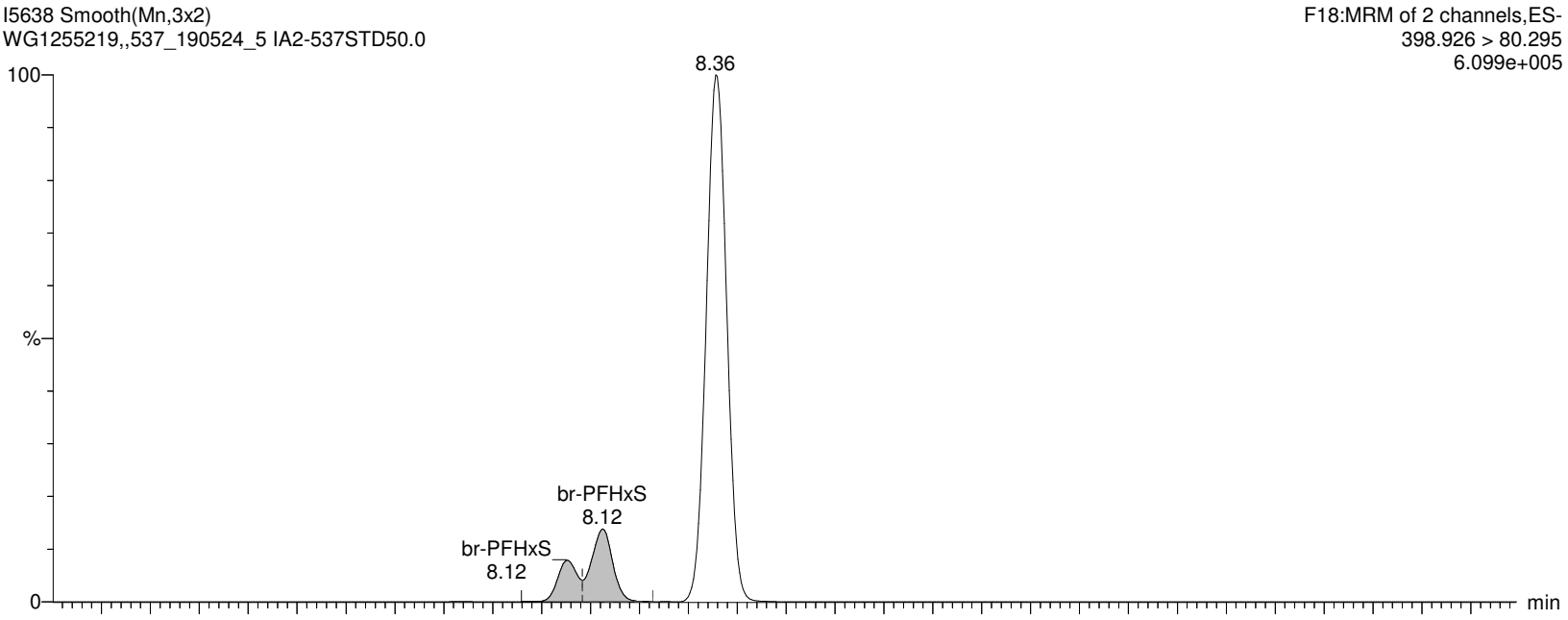


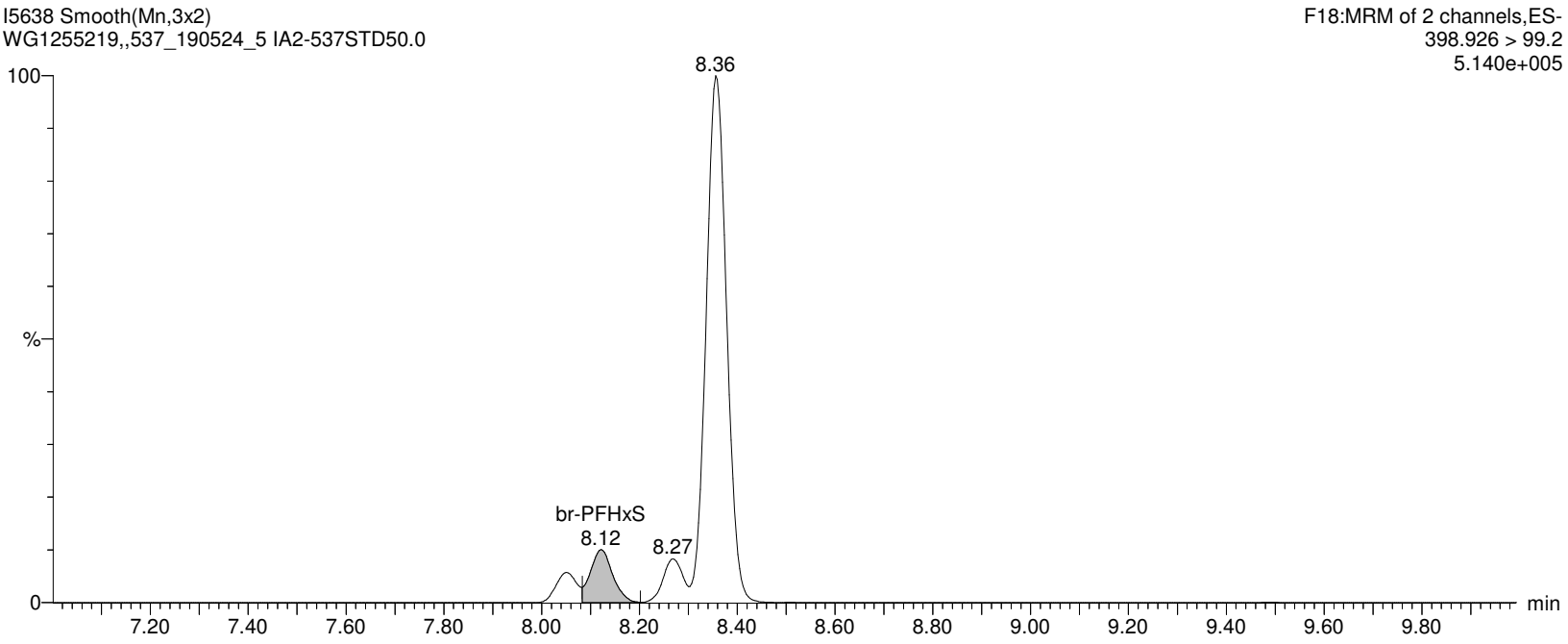
all concentration units in (ng/mL)

Alpha Analytical Inc.
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br-PFHxS



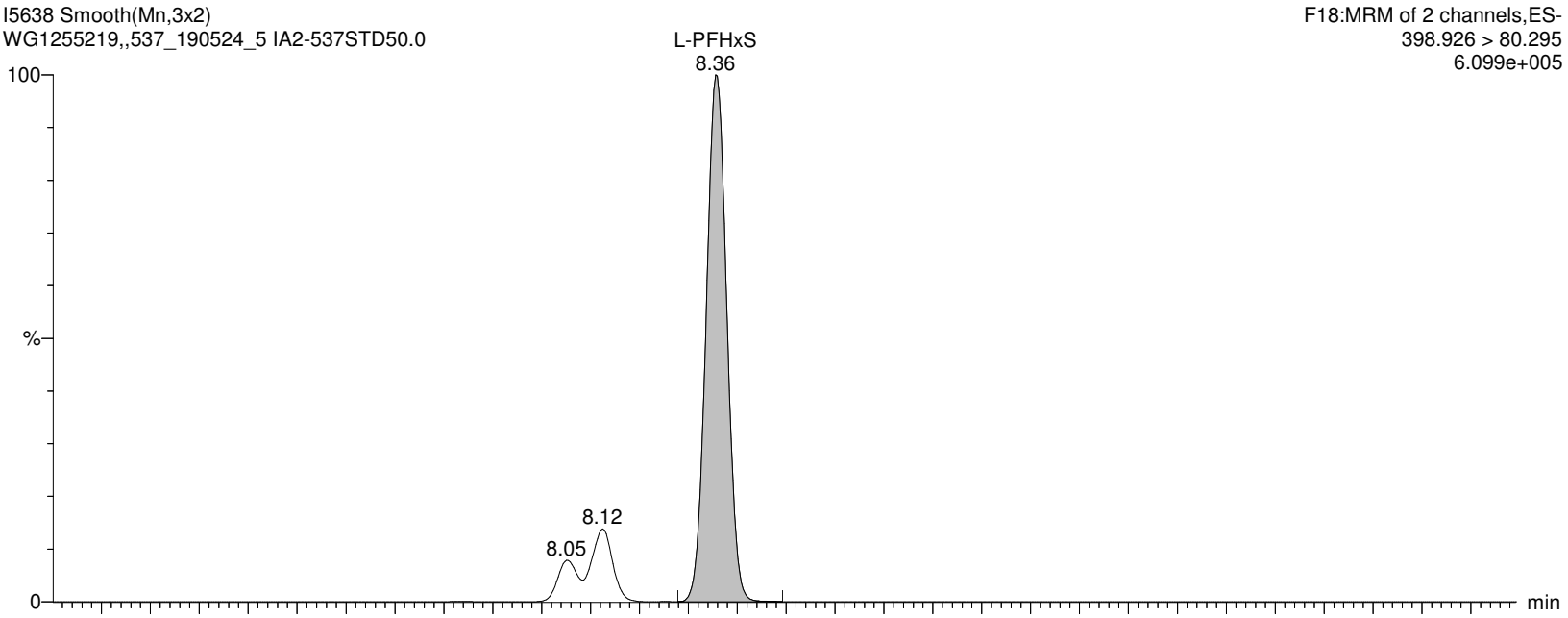


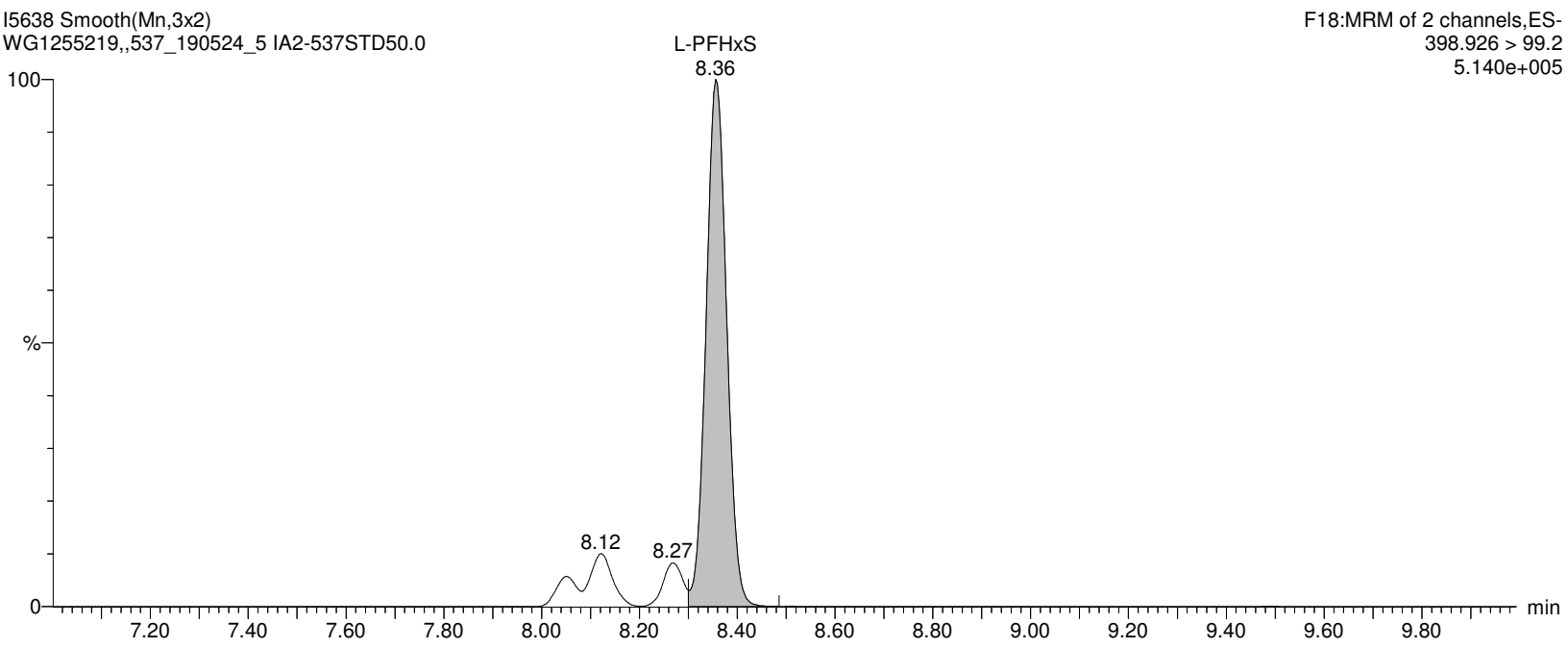
all concentration units in (ng/mL)

Alpha Analytical Inc.
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L-PFHxS



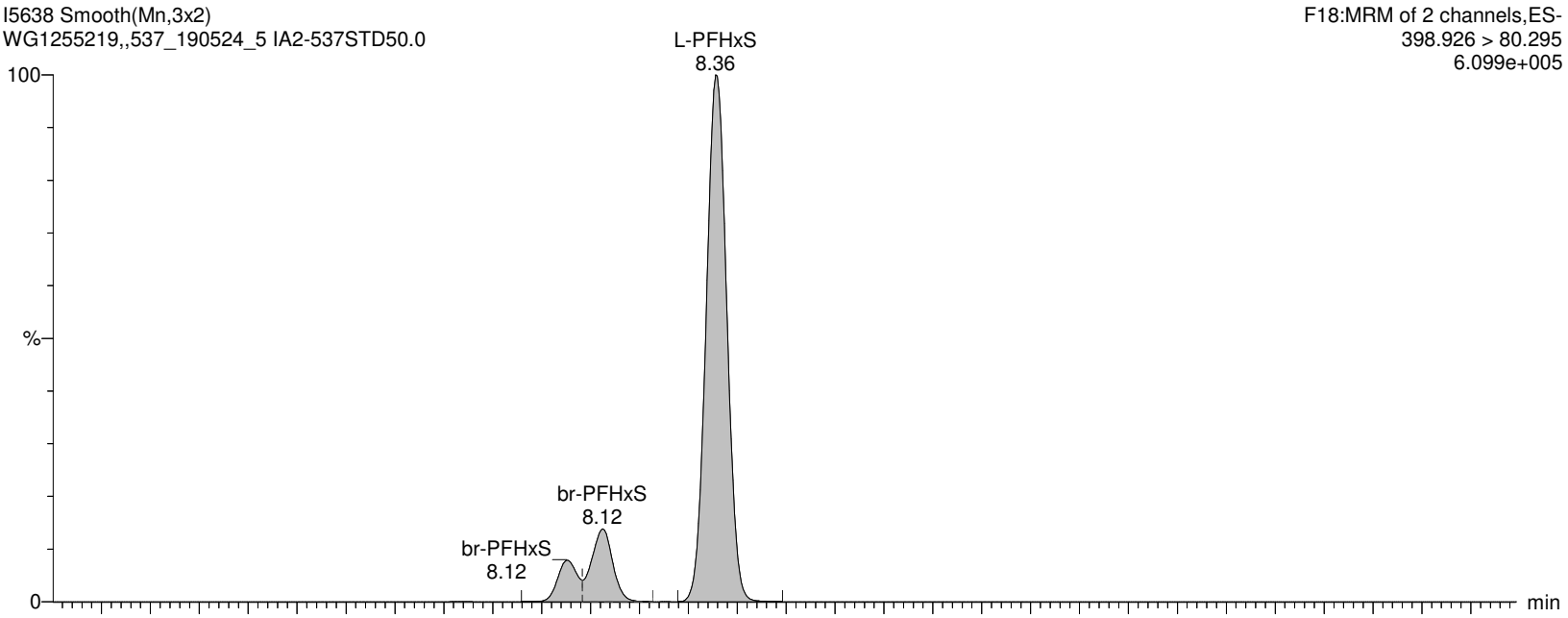


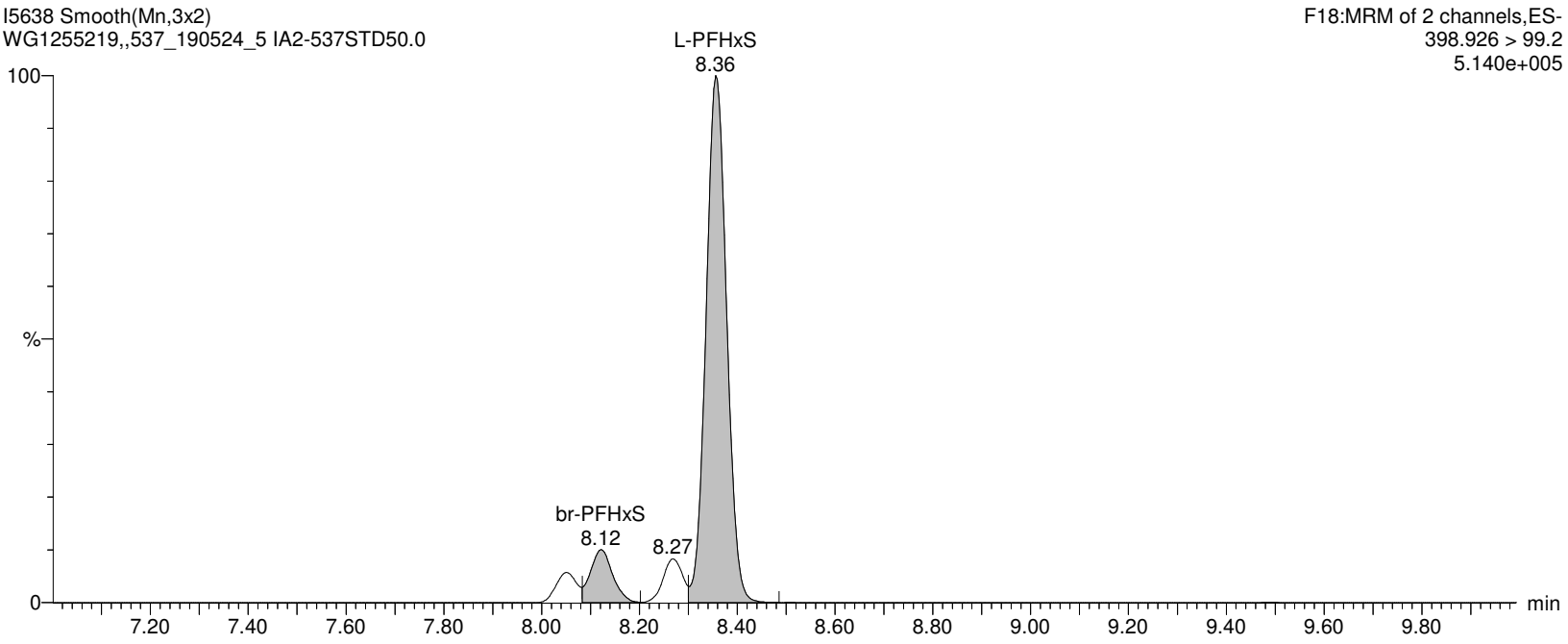
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:38 Eastern Daylight Time

Name: I5638
ID: IA2-537STD50.0
Date: 01-Jul-2019
Time: 19:03:37
Description: WG1255219,,537_190524_5
User: LCMS02:JW
Vial: 1:A,6
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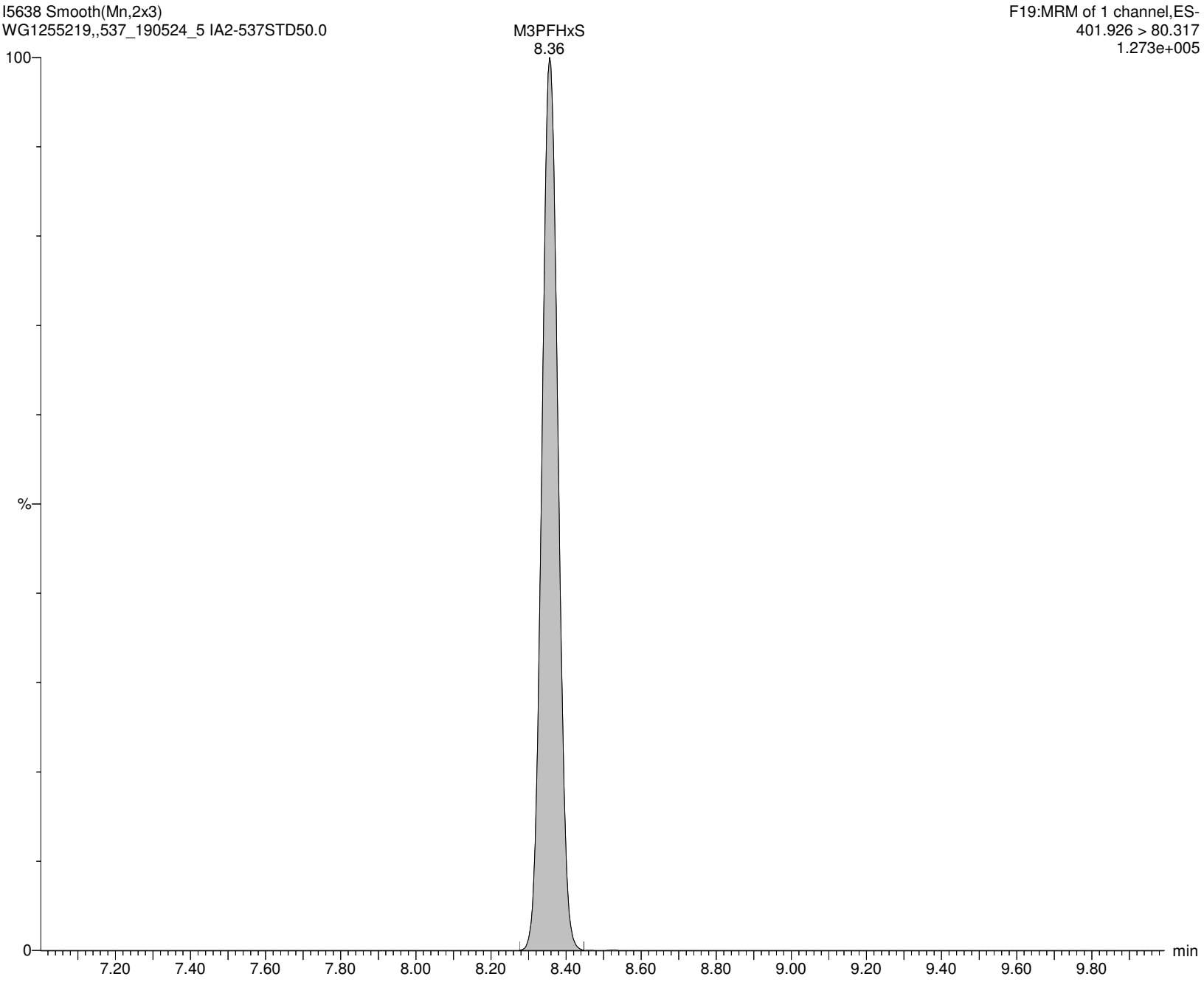


all concentration units in (ng/mL)

Alpha Analytical Inc.
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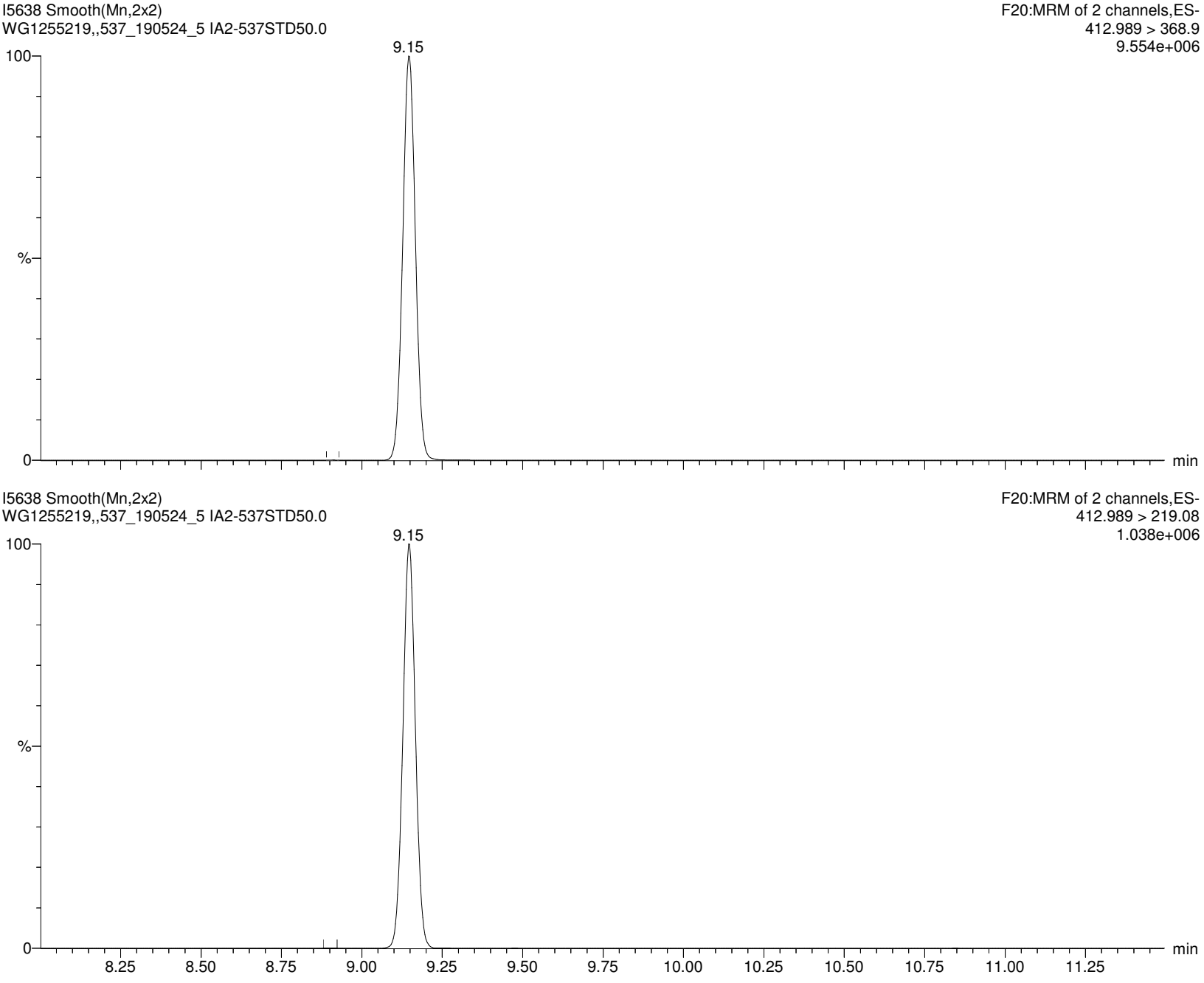


all concentration units in (ng/mL)

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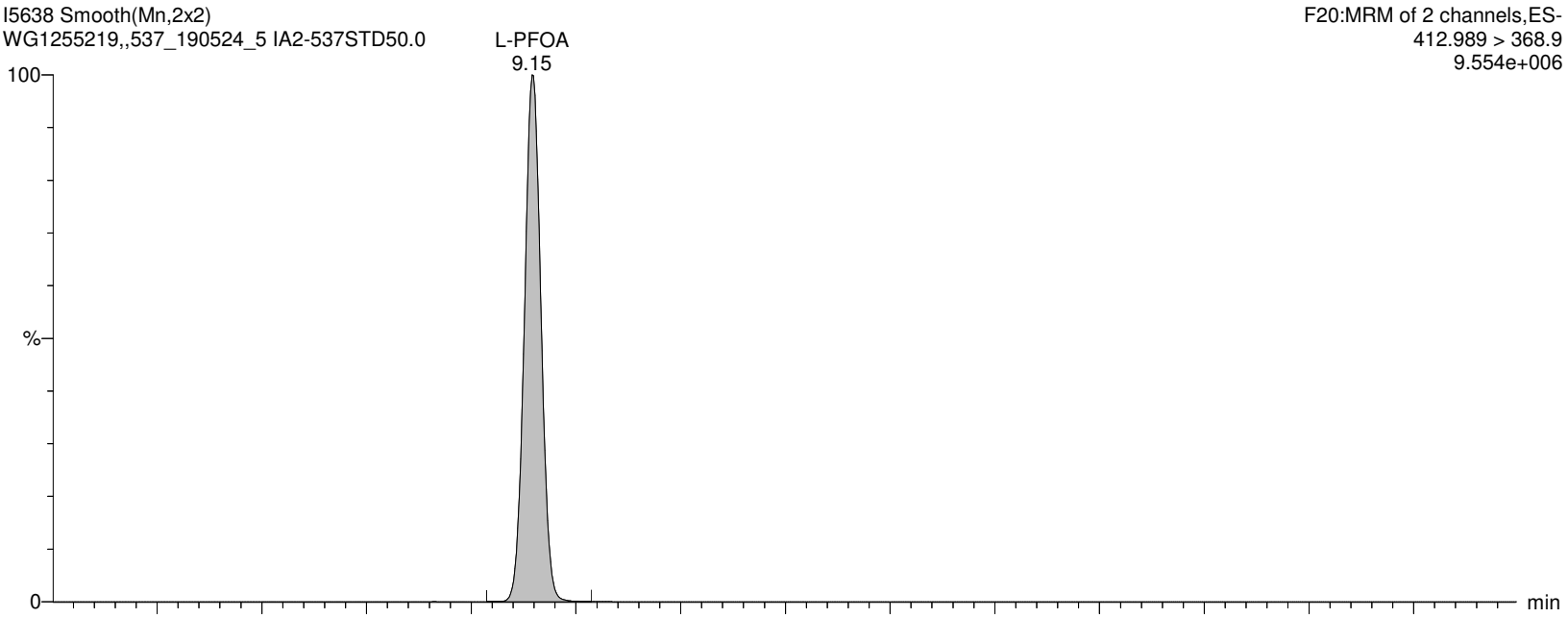


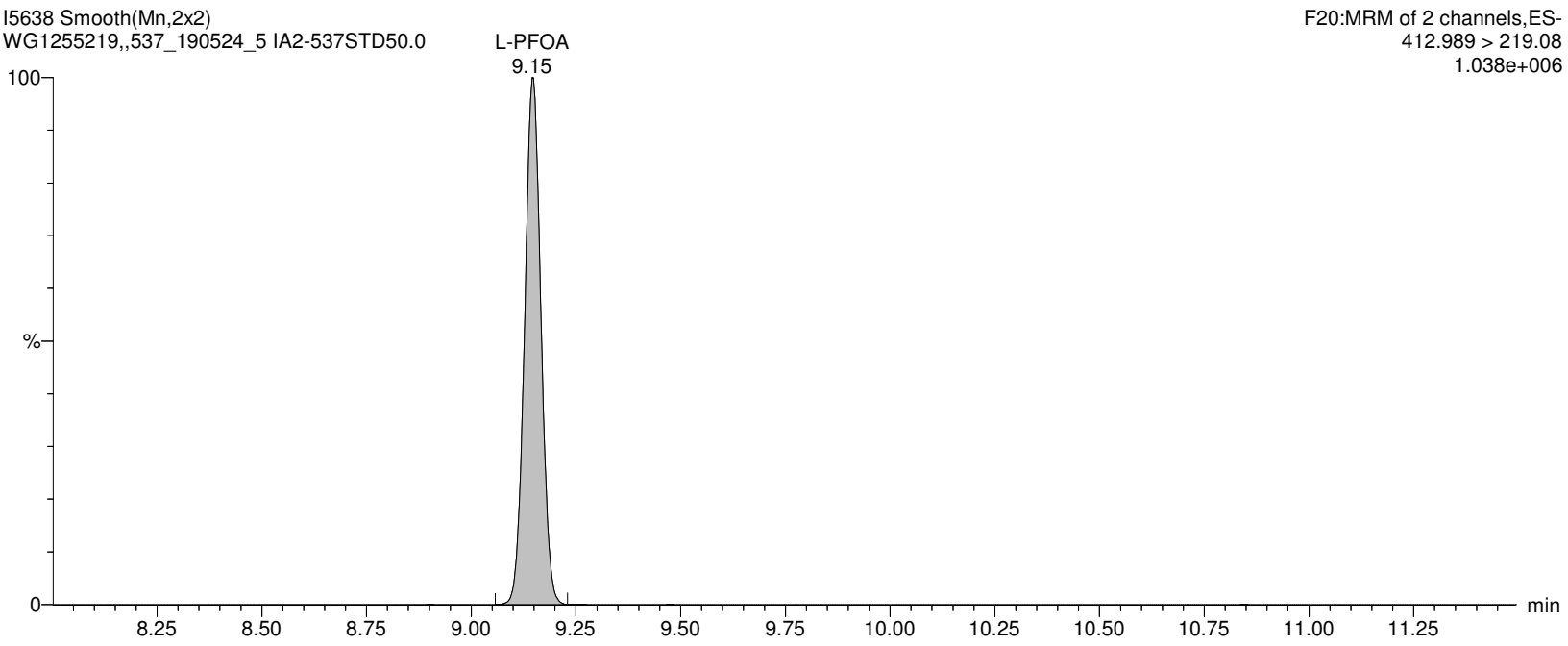
all concentration units in (ng/mL)

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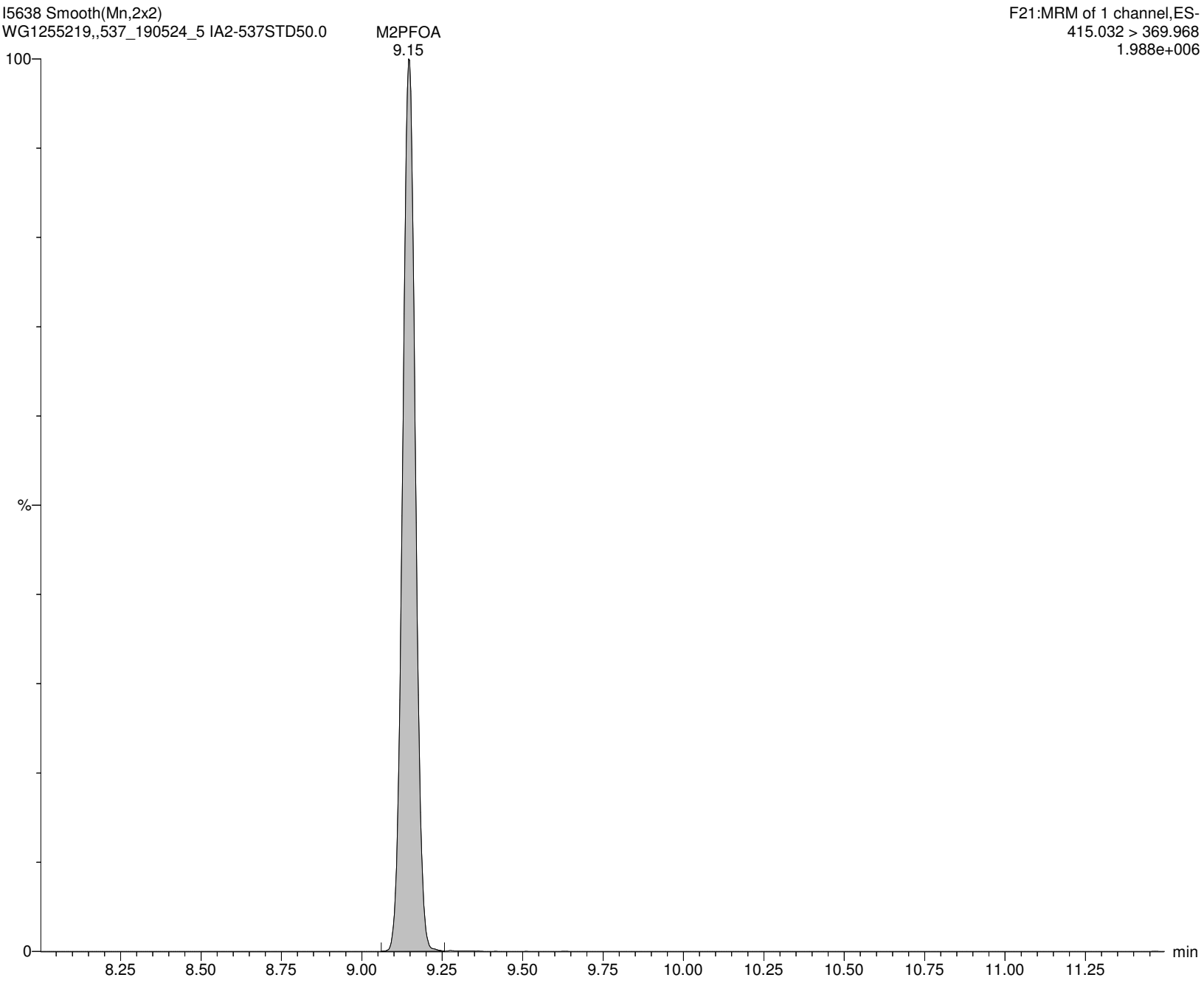


all concentration units in (ng/mL)

Alpha Analytical Inc.
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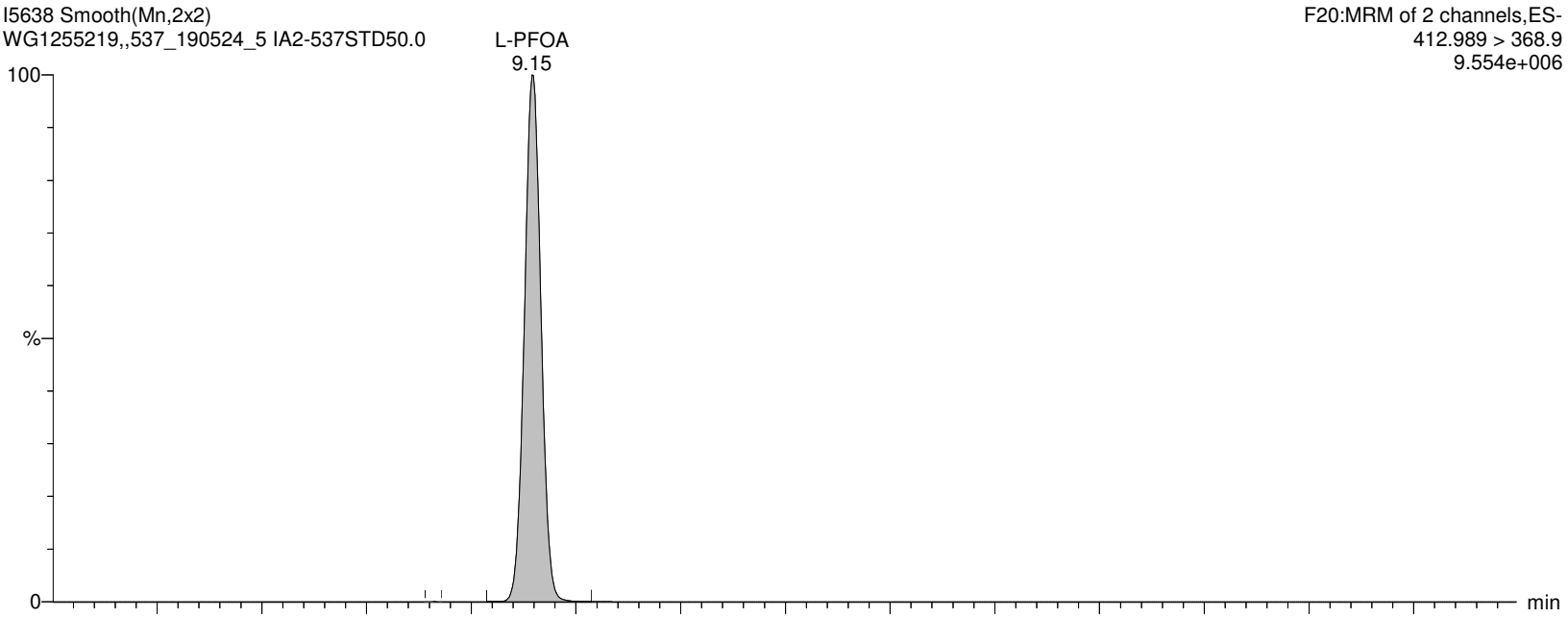


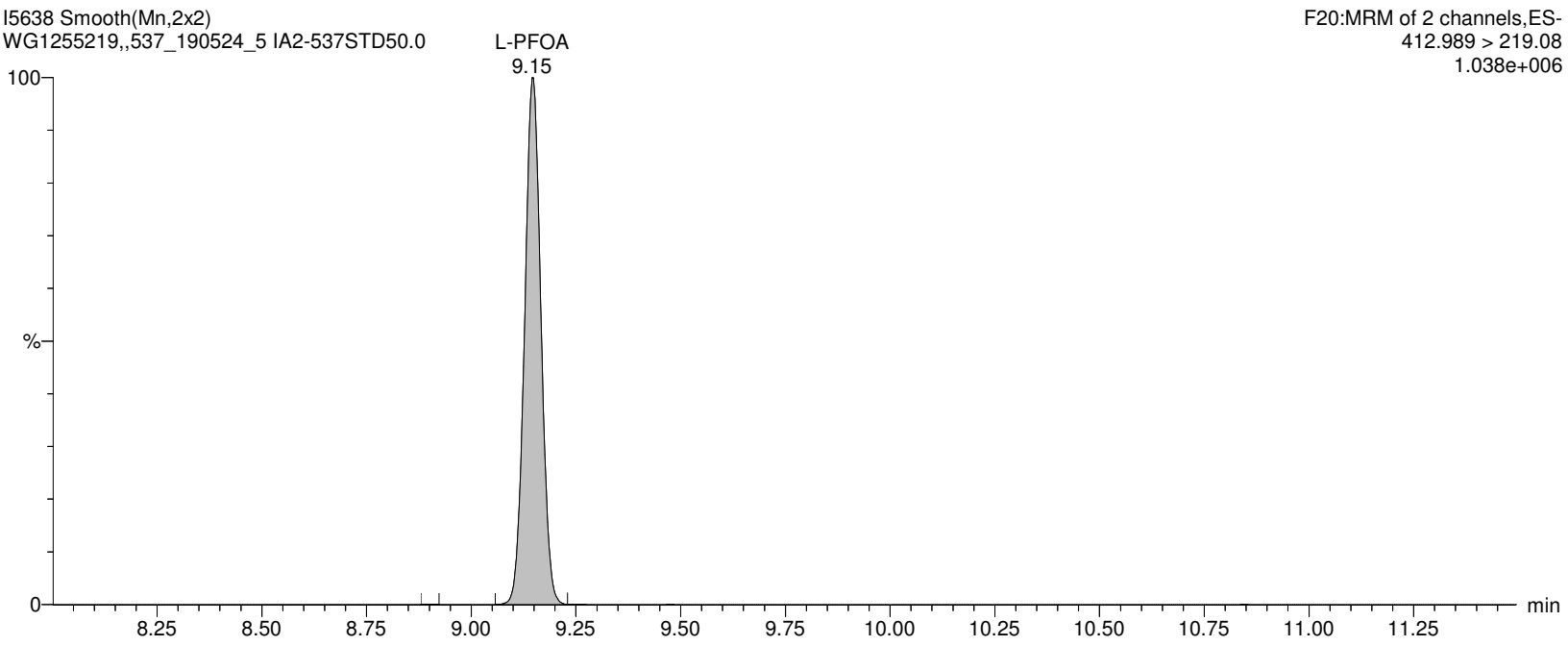
all concentration units in (ng/mL)

Alpha Analytical Inc.
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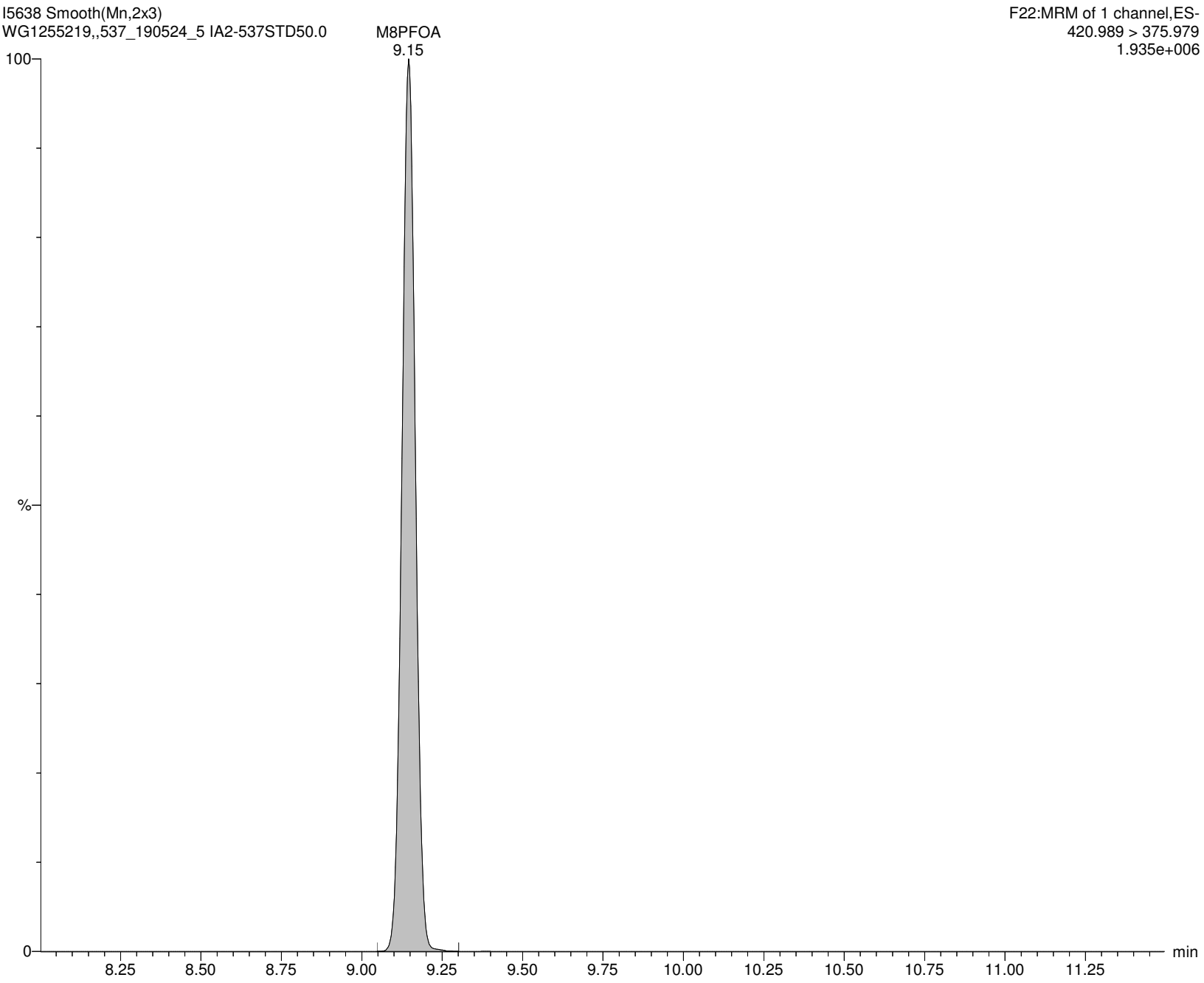


all concentration units in (ng/mL)

Alpha Analytical Inc.
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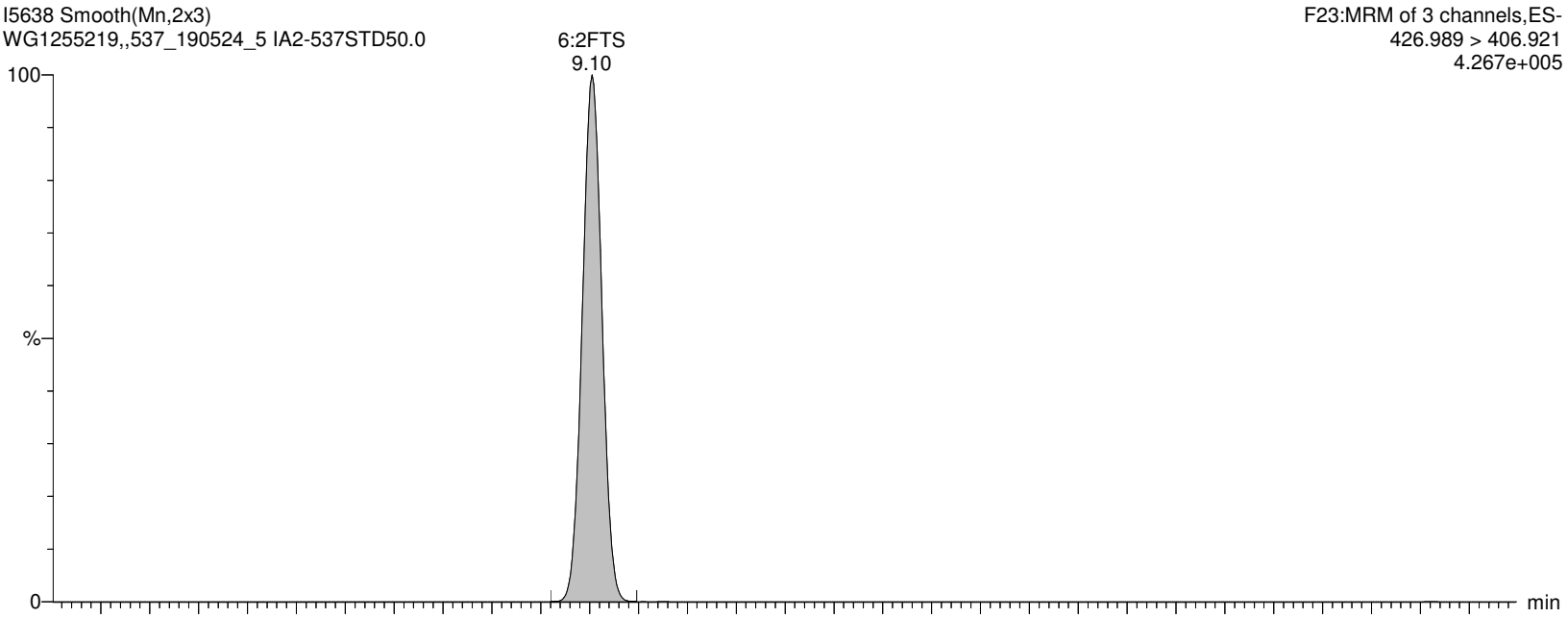


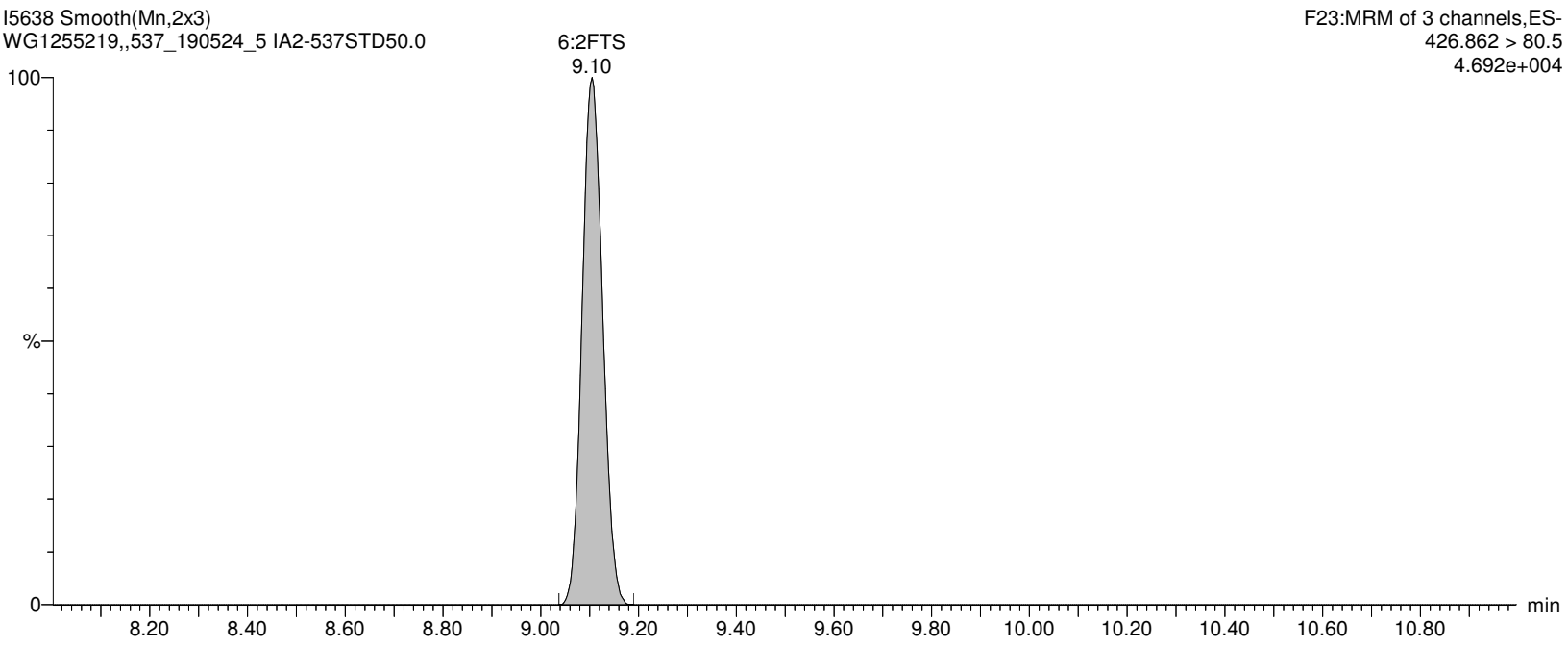
all concentration units in (ng/mL)

Alpha Analytical Inc.
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6:2FTS



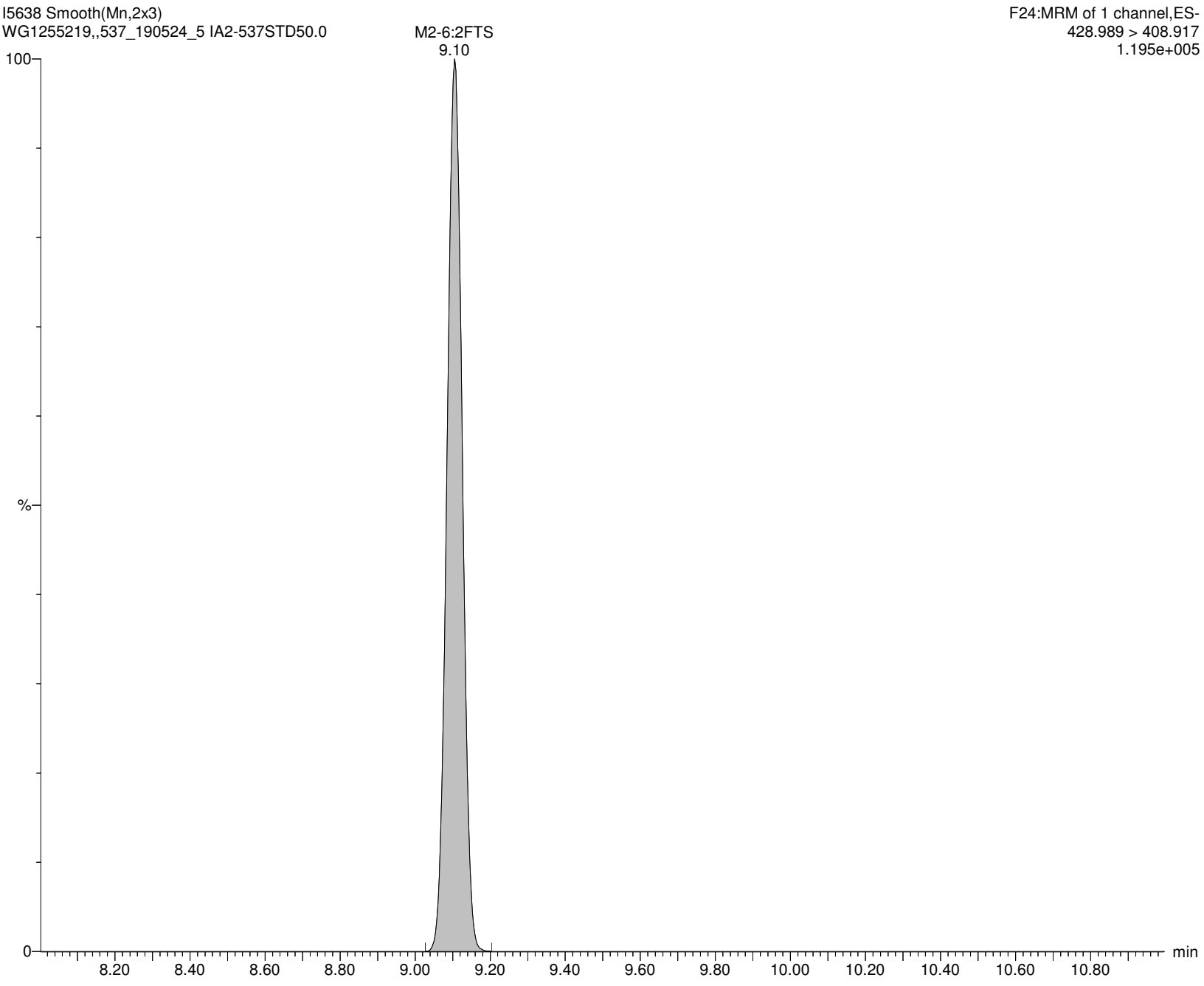


all concentration units in (ng/mL)

Alpha Analytical Inc.
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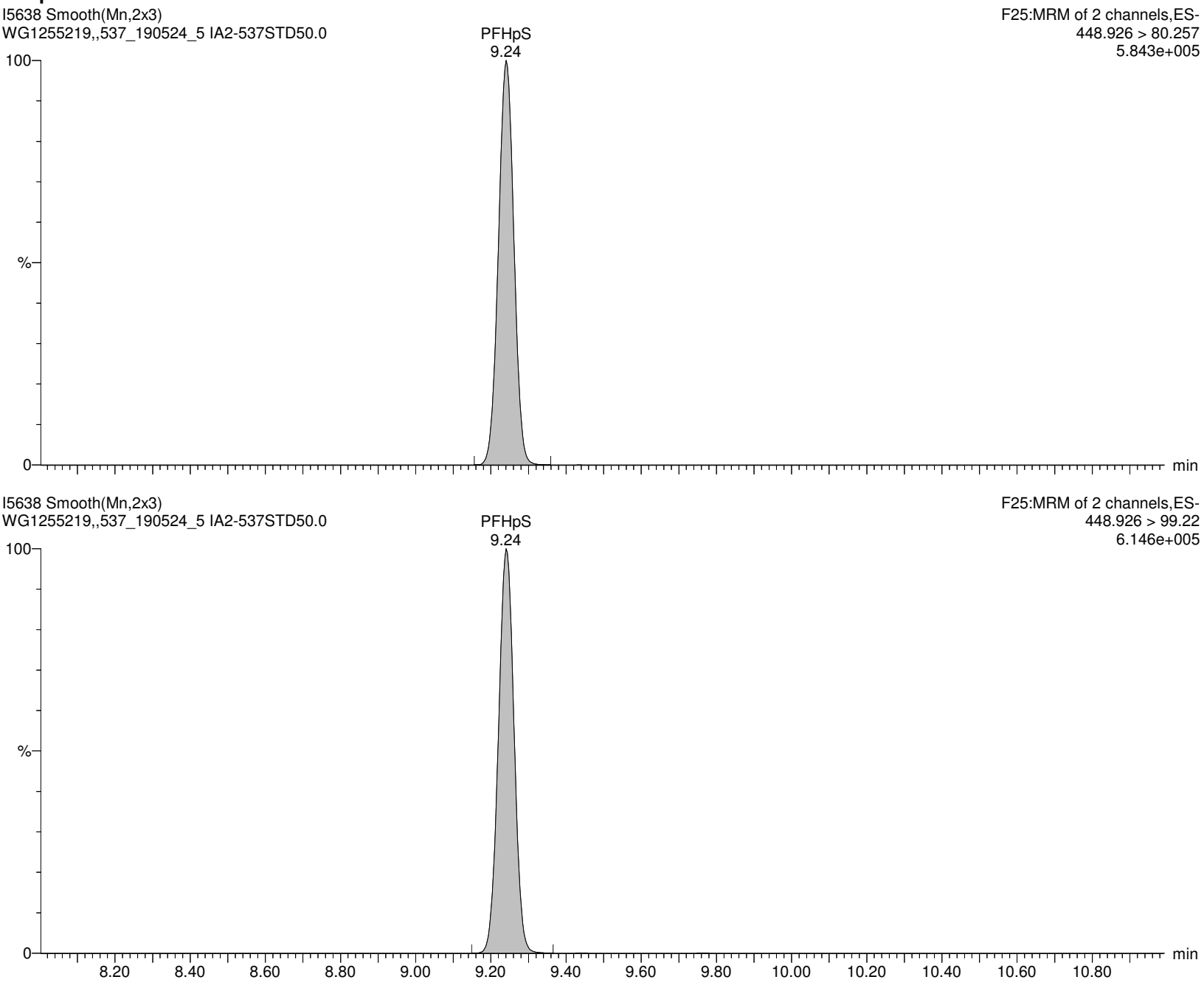


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Date: 01-Jul-2019
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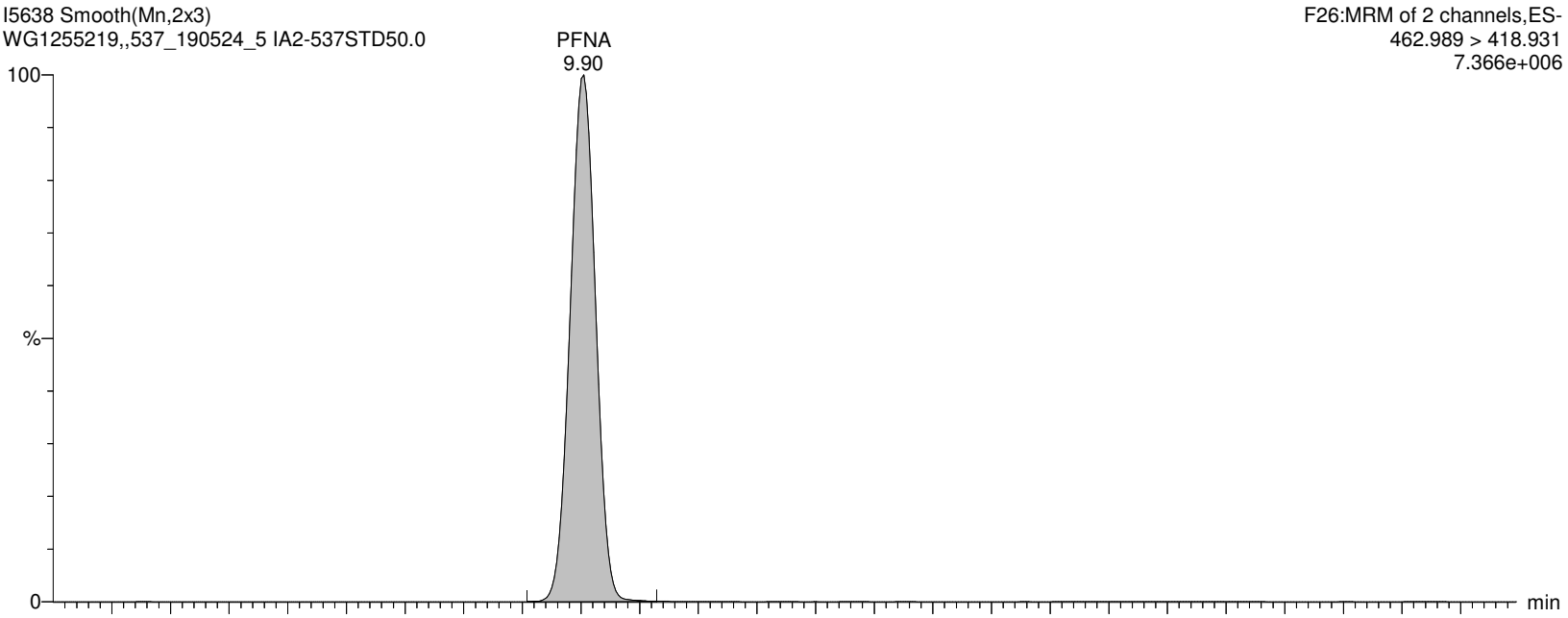


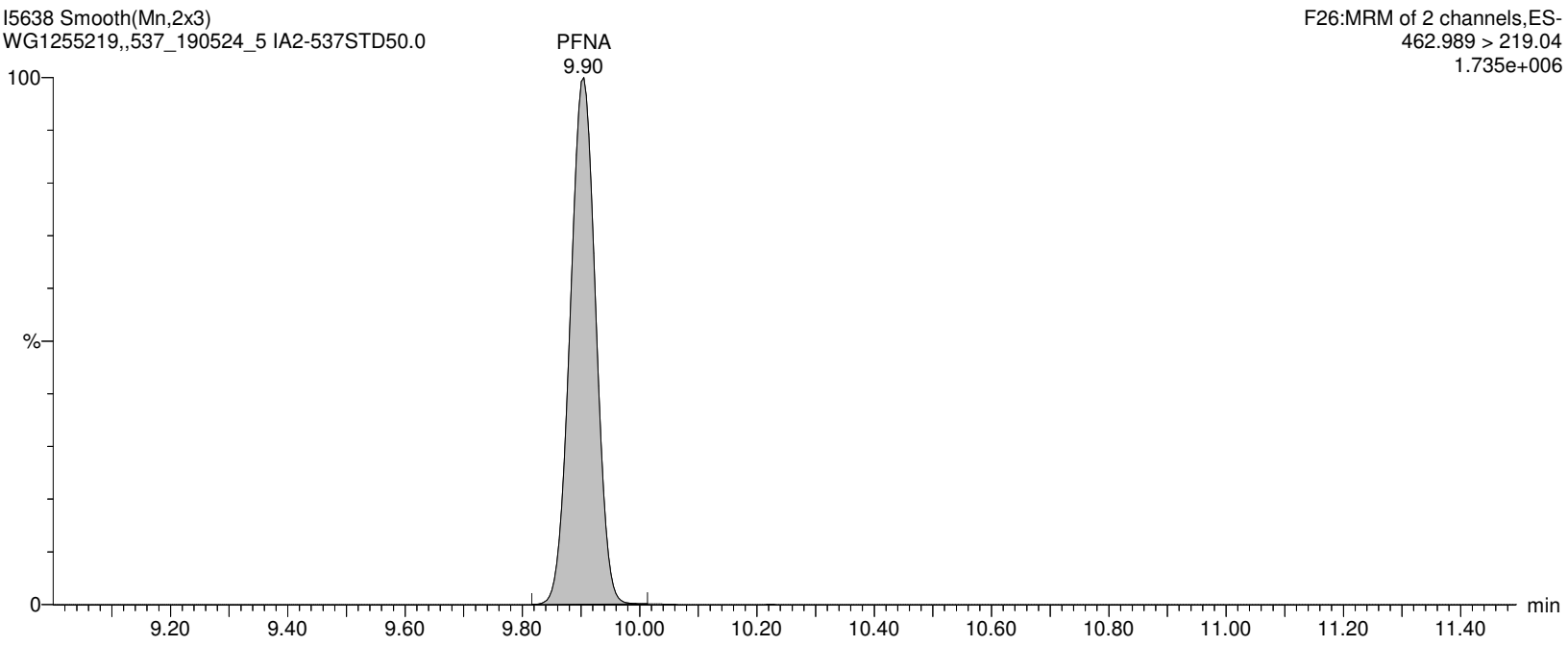
all concentration units in (ng/mL)

Alpha Analytical Inc.
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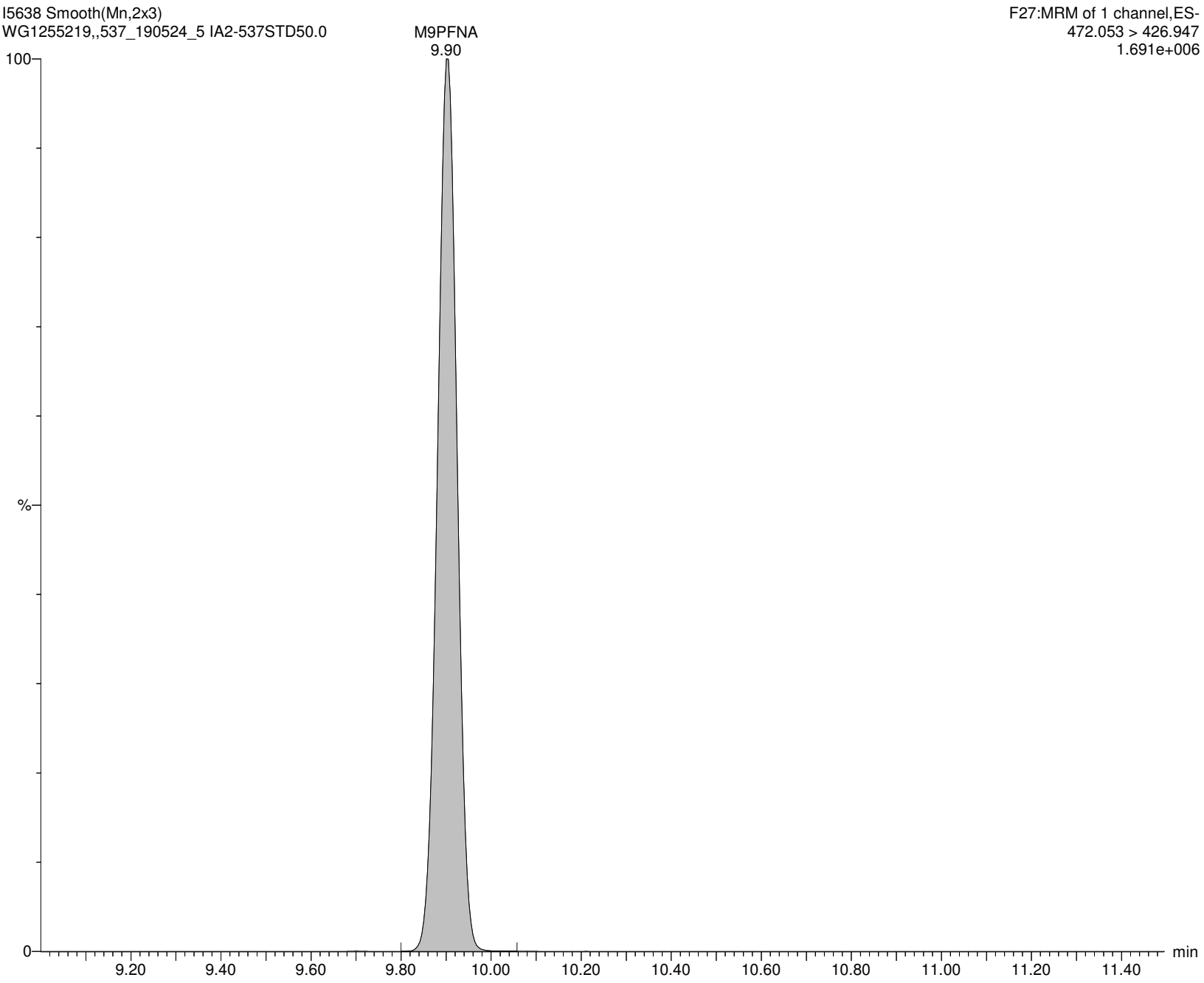


all concentration units in (ng/mL)

Alpha Analytical Inc.
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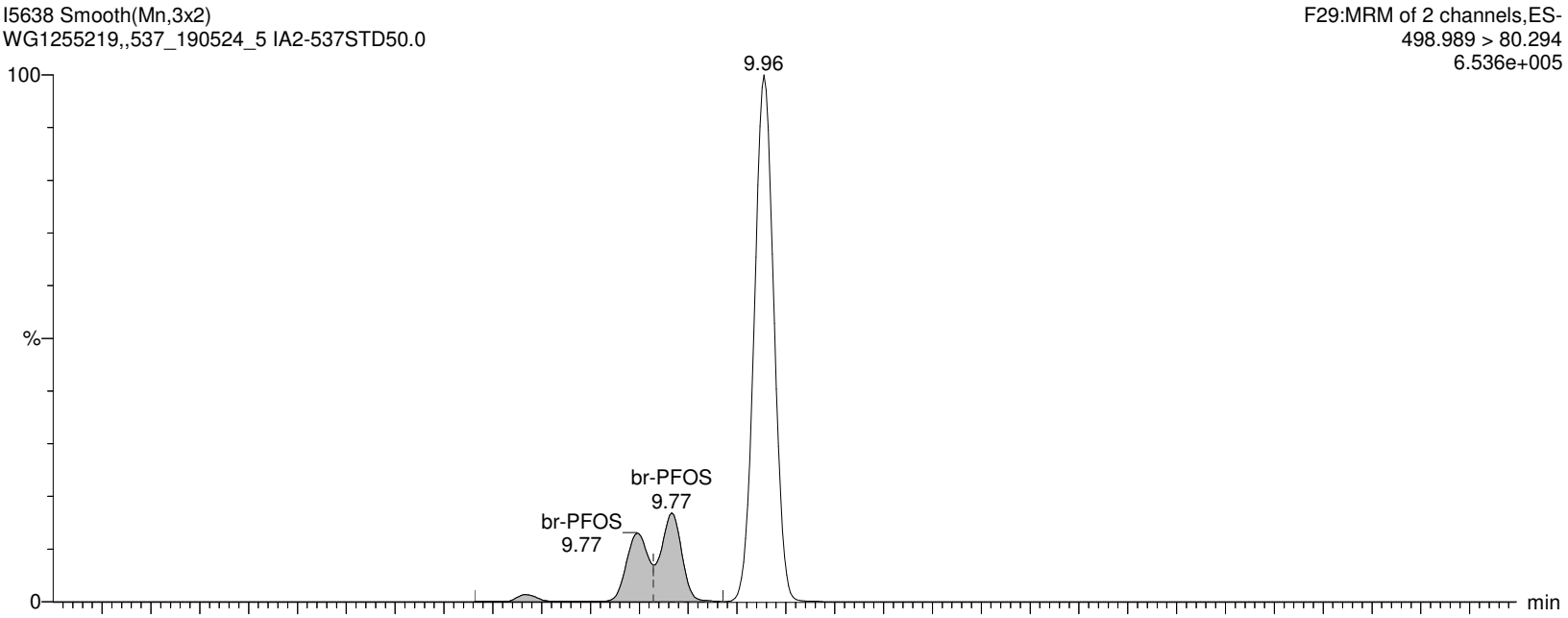


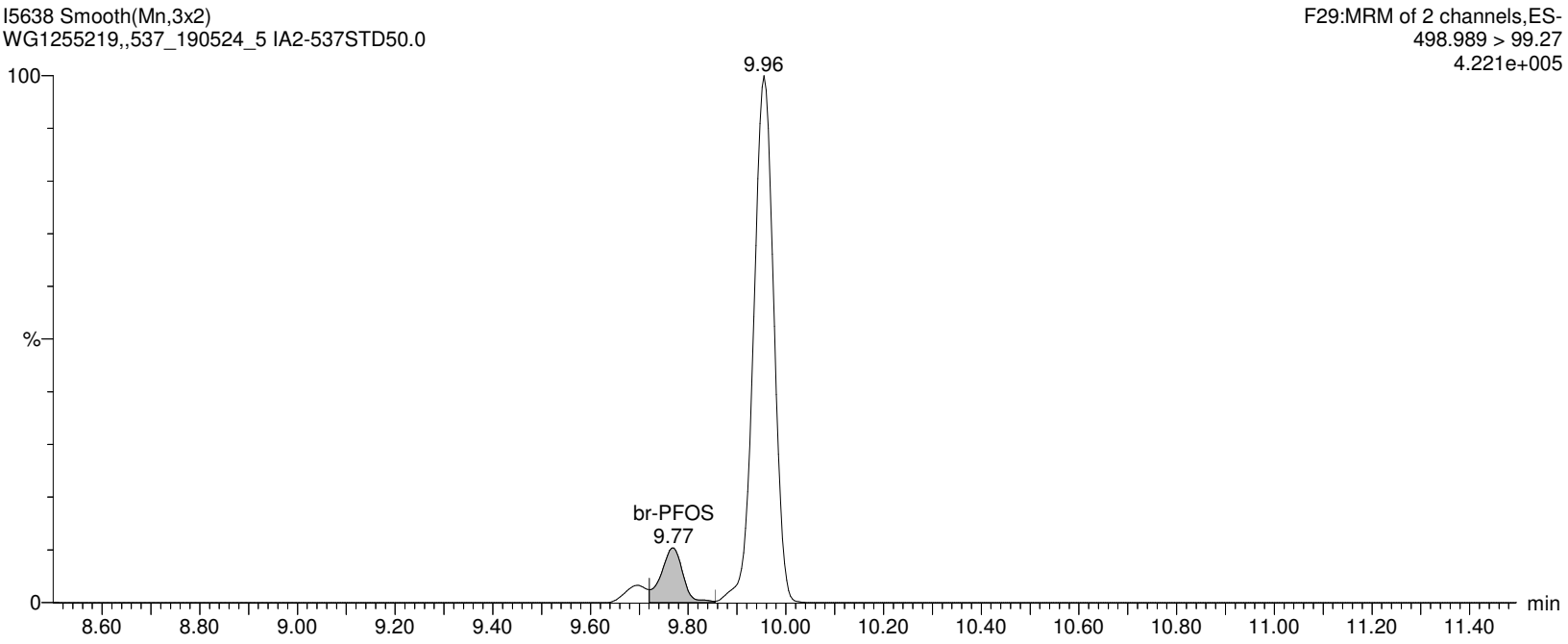
all concentration units in (ng/mL)

Alpha Analytical Inc.
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br-PFOS



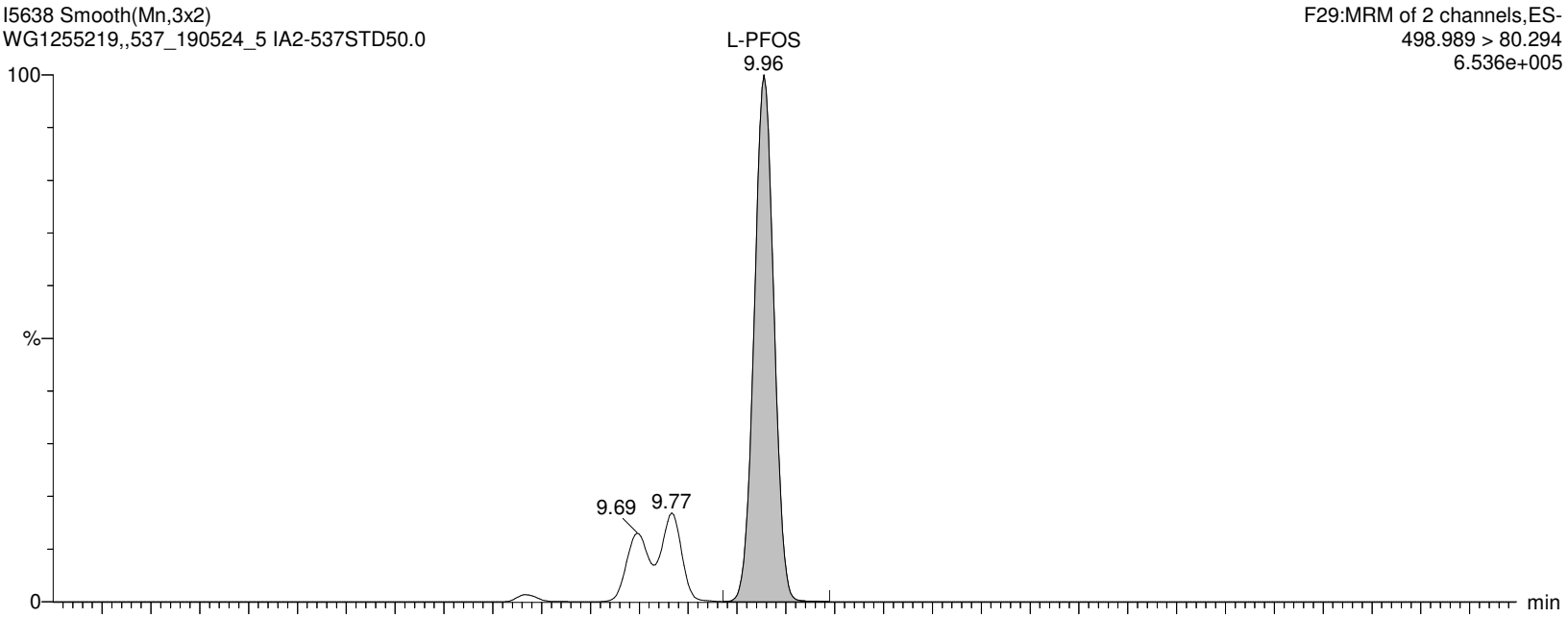


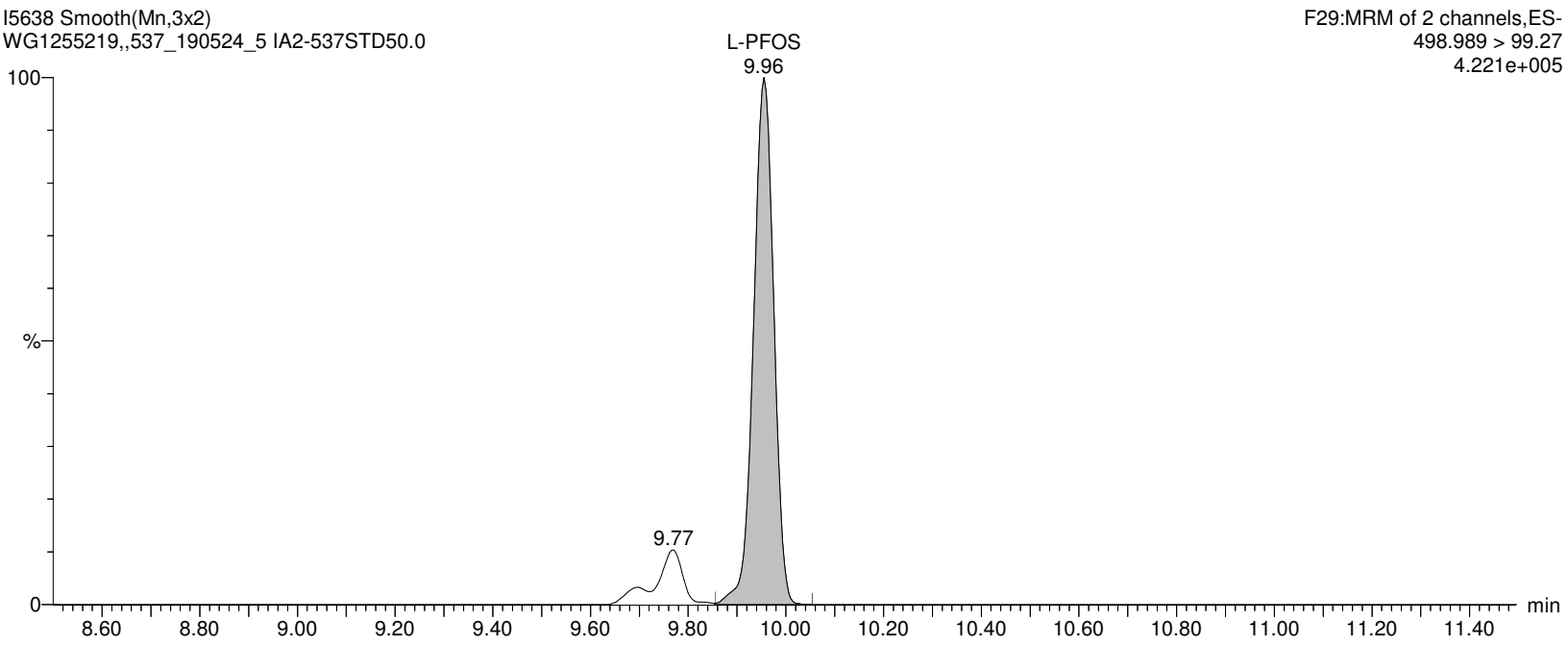
all concentration units in (ng/mL)

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L-PFOS



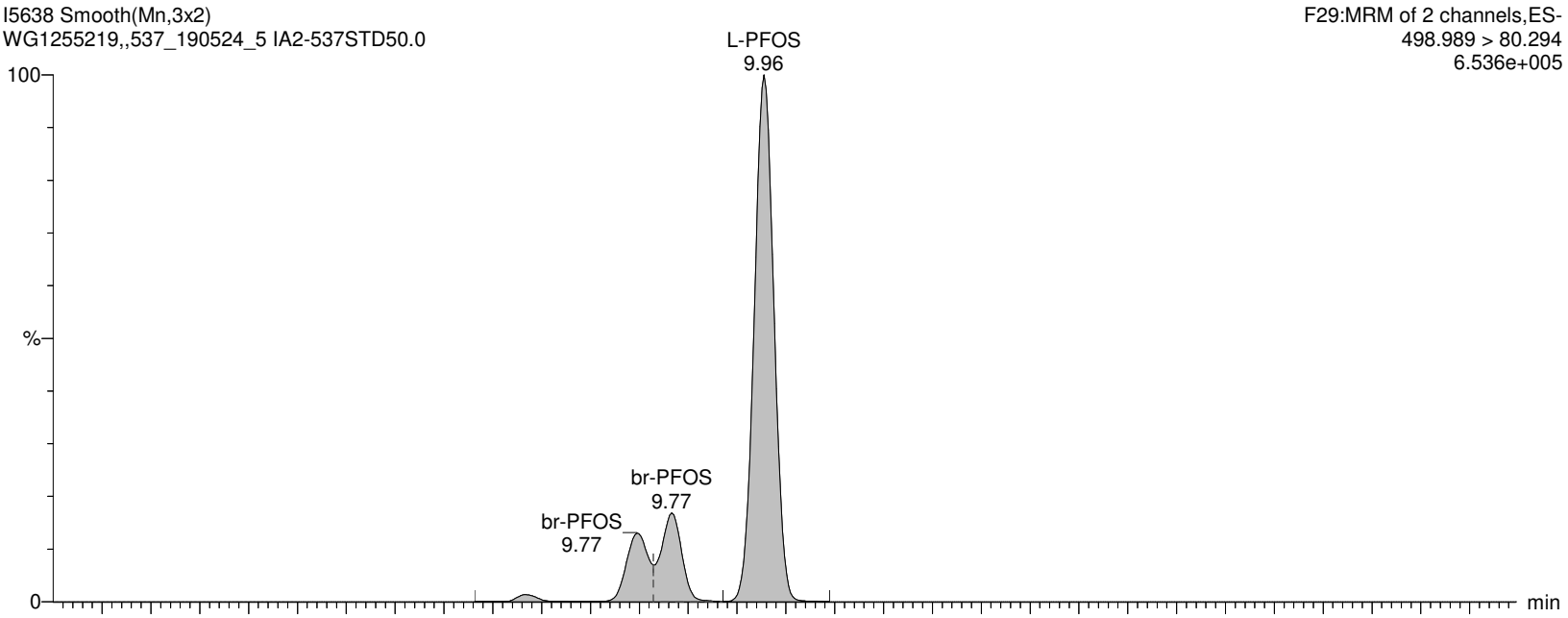


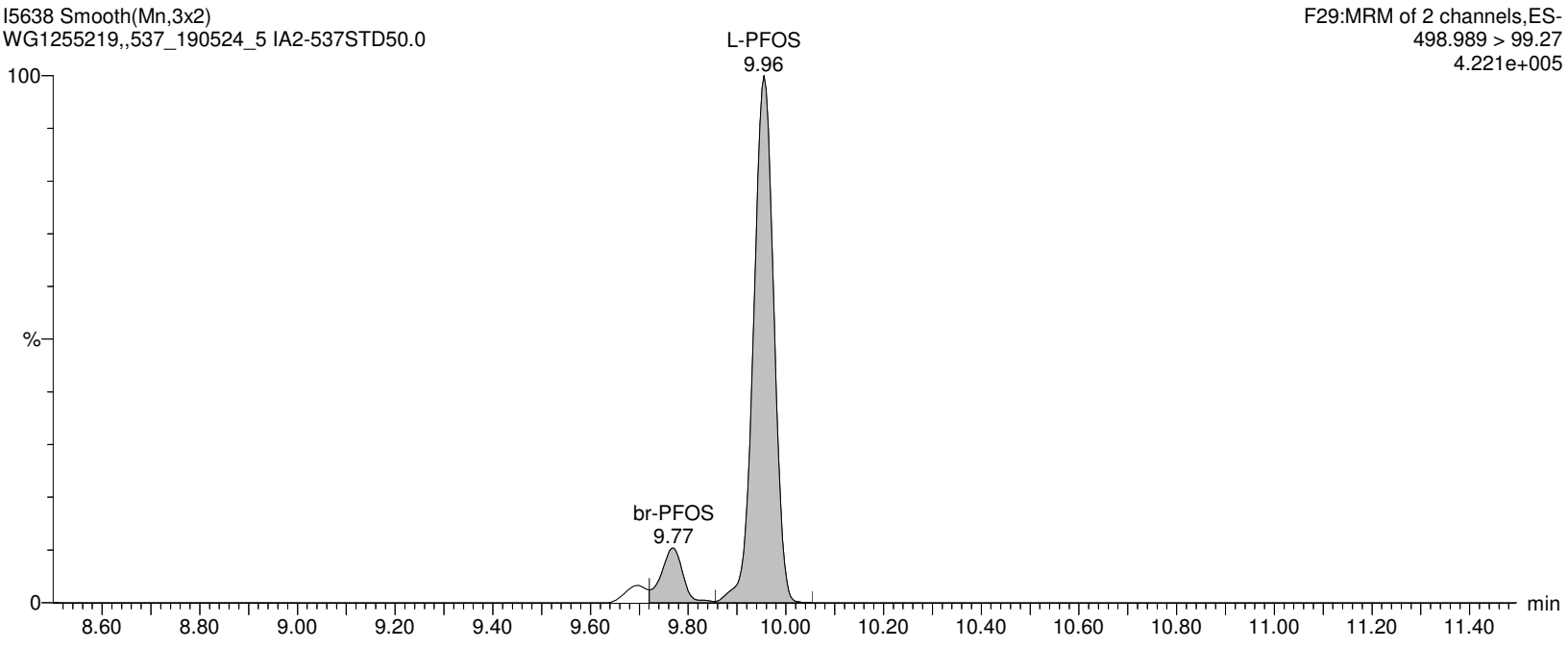
all concentration units in (ng/mL)

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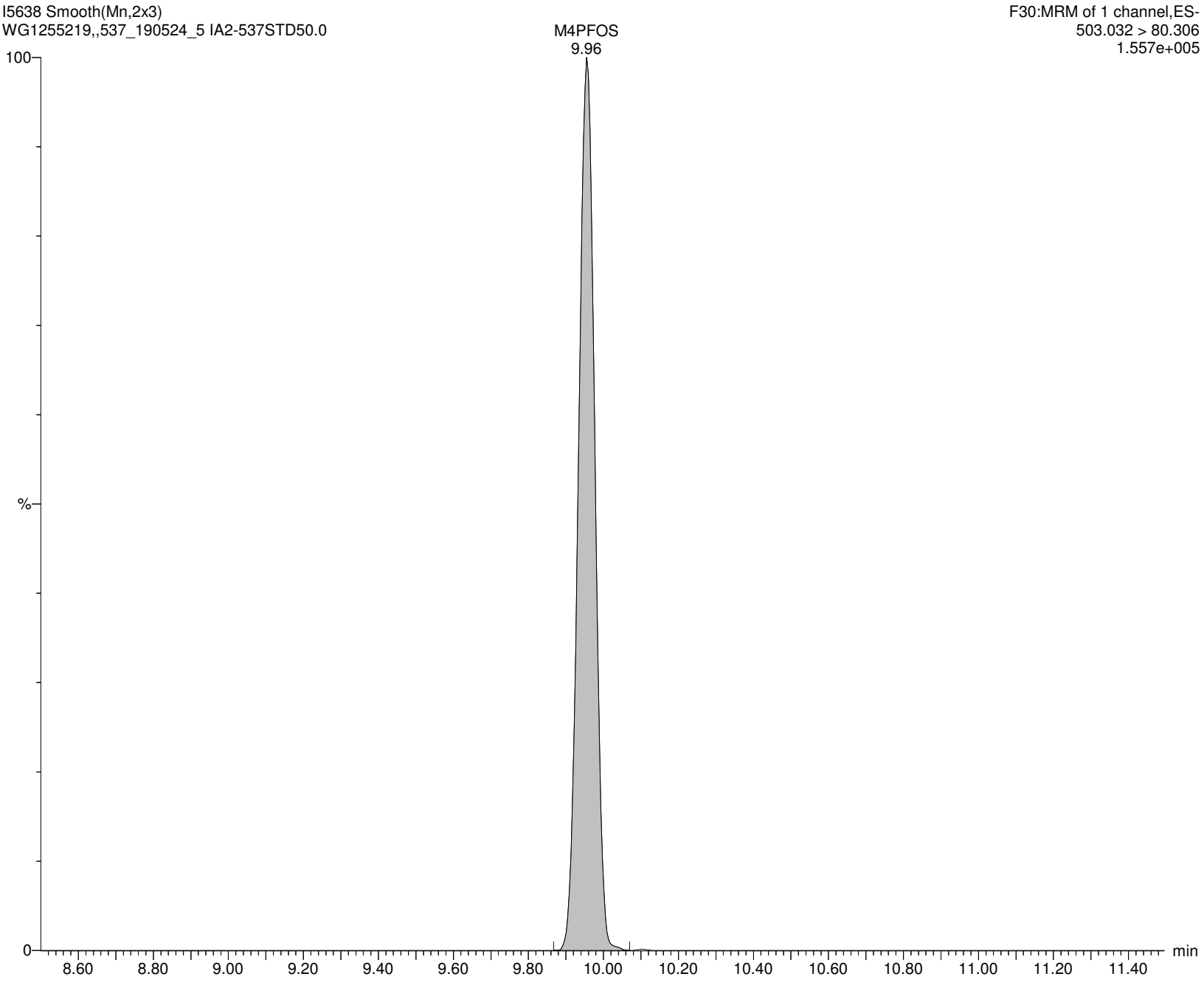


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:38 Eastern Daylight Time

Name: I5638
ID: IA2-537STD50.0
Date: 01-Jul-2019
Time: 19:03:37
Description: WG1255219,,537_190524_5
User: LCMS02:JW
Vial: 1:A,6
Instrument: XEVO-TQSmicro#QEB0050
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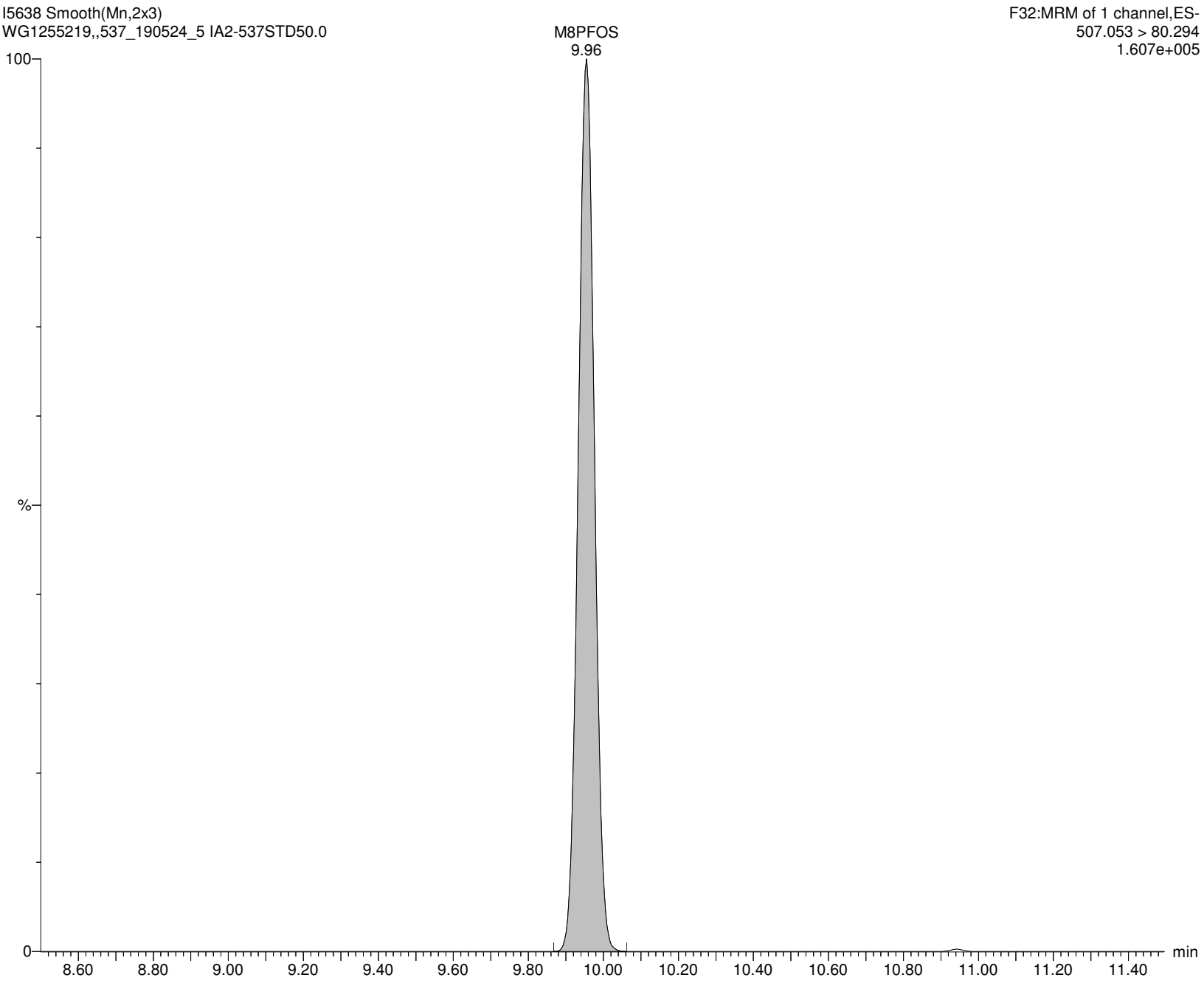


all concentration units in (ng/mL)

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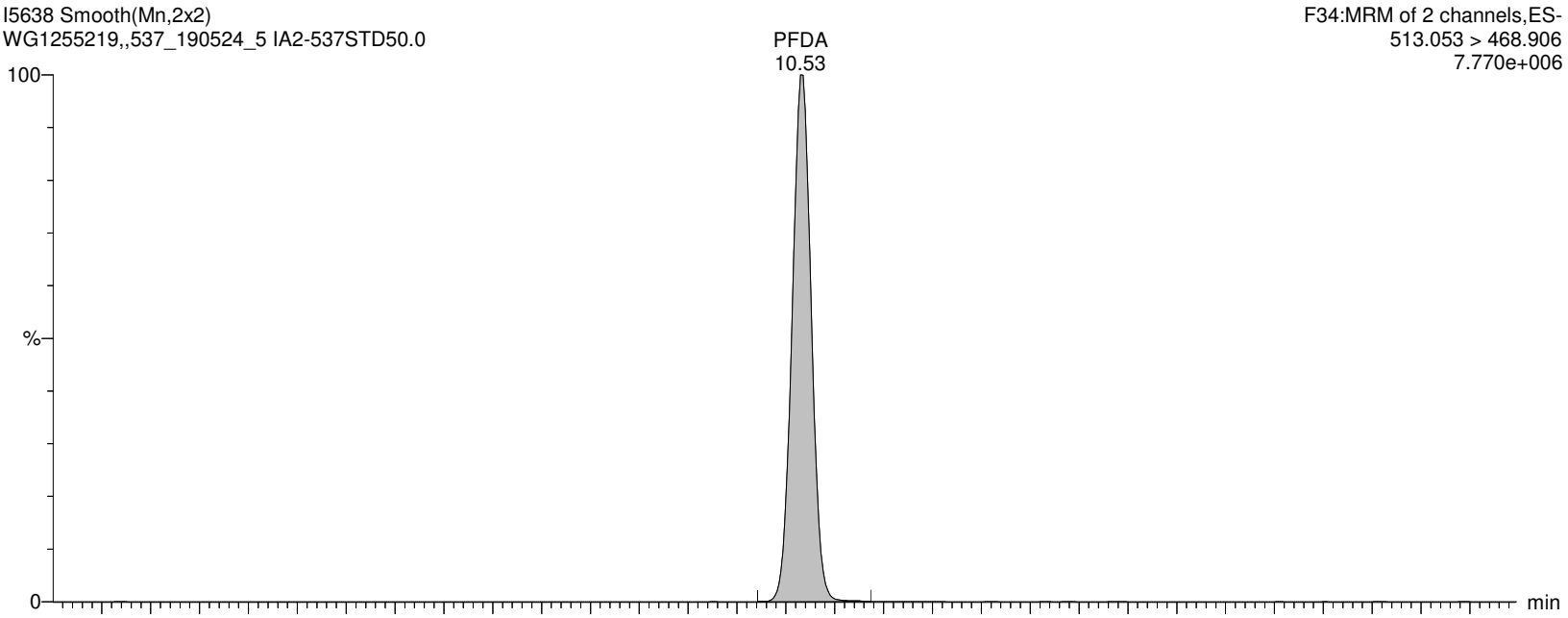


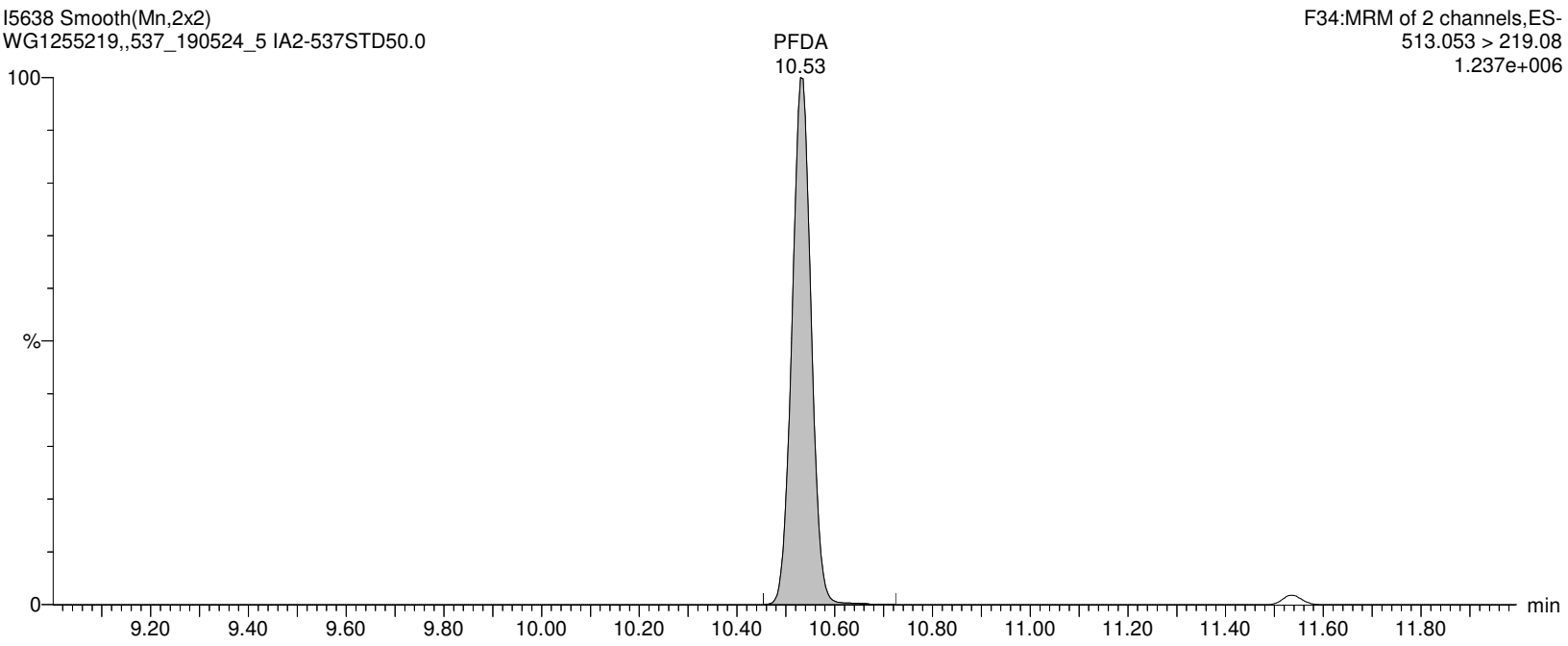
all concentration units in (ng/mL)

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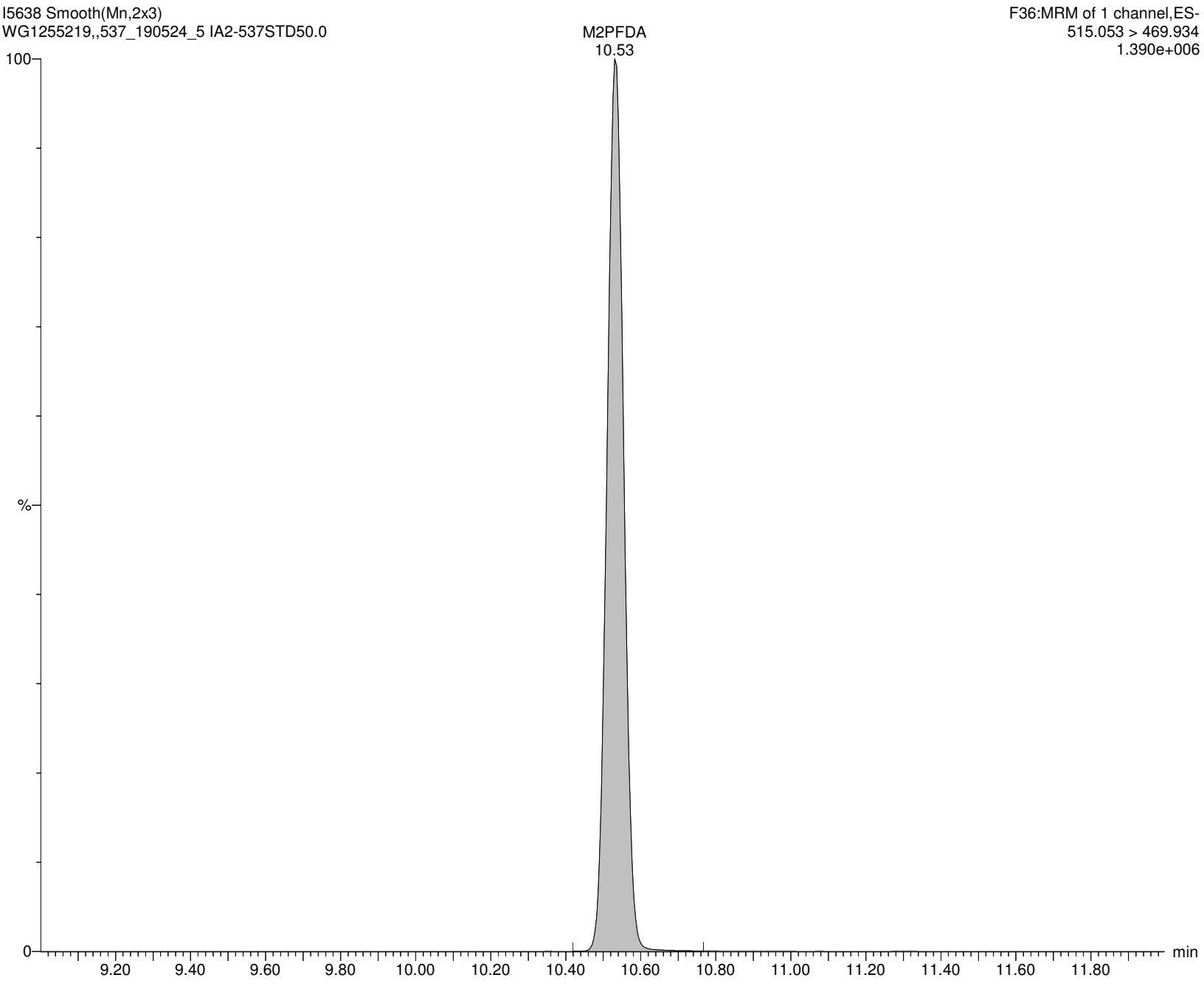


all concentration units in (ng/mL)

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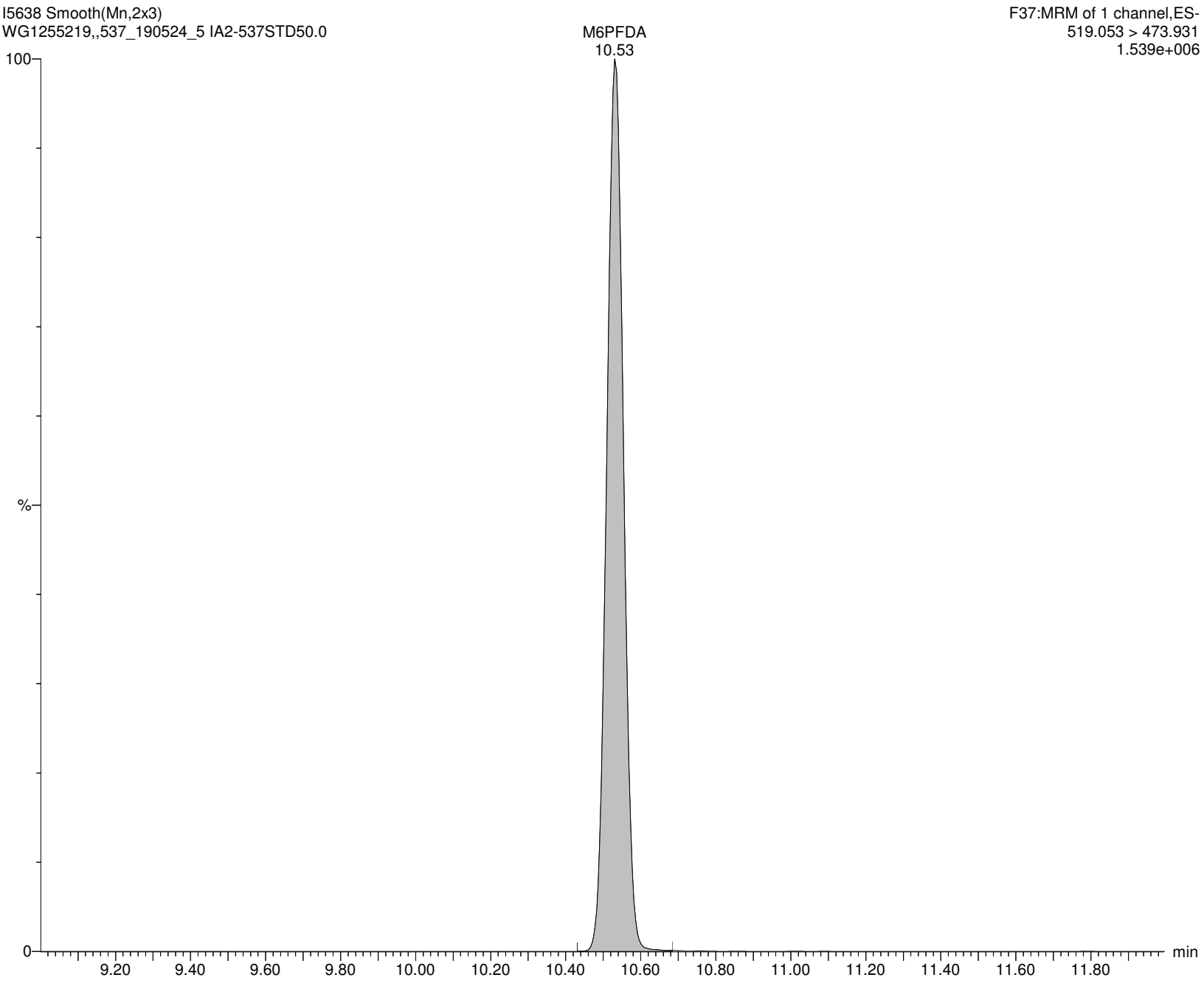


all concentration units in (ng/mL)

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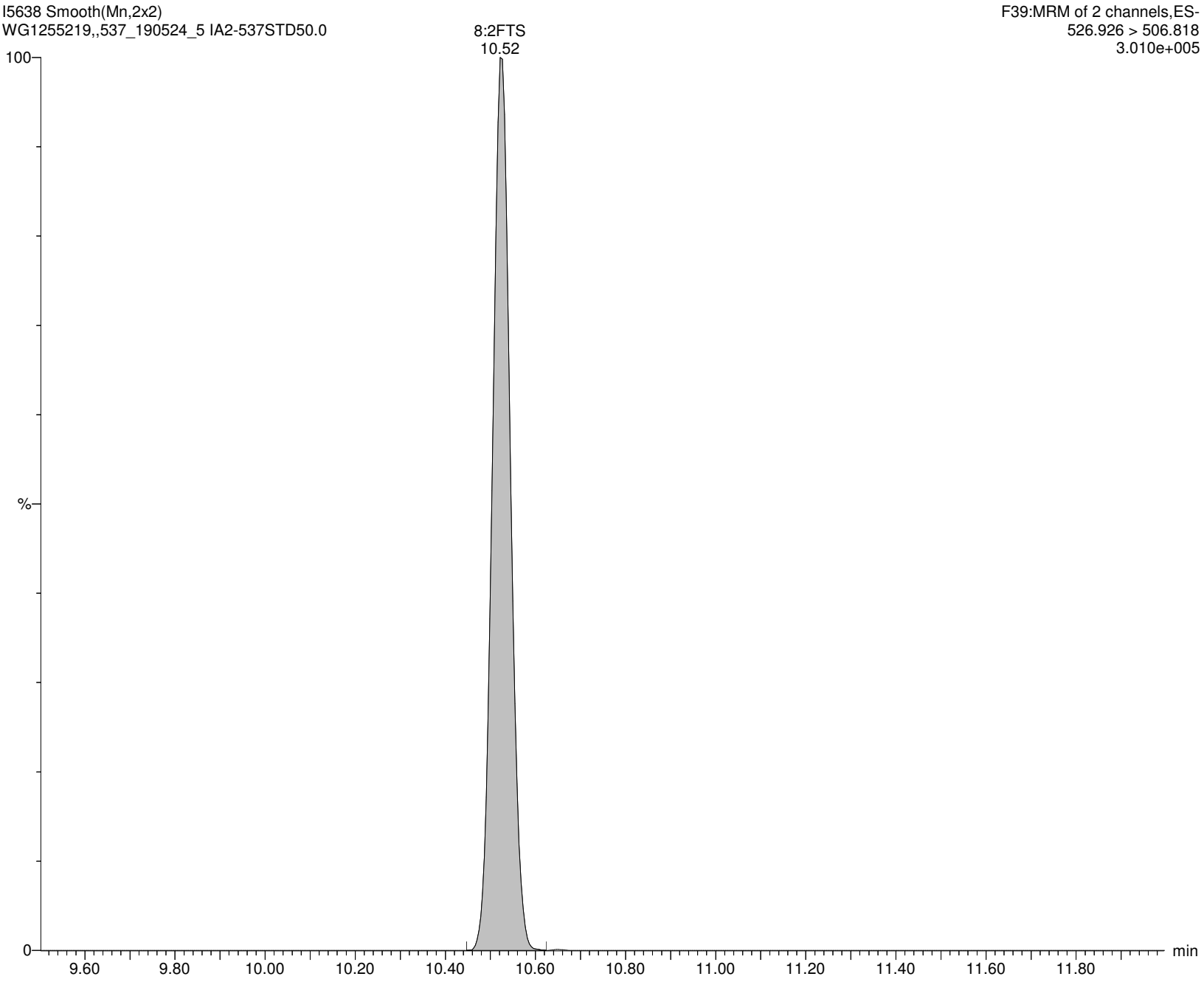


all concentration units in (ng/mL)

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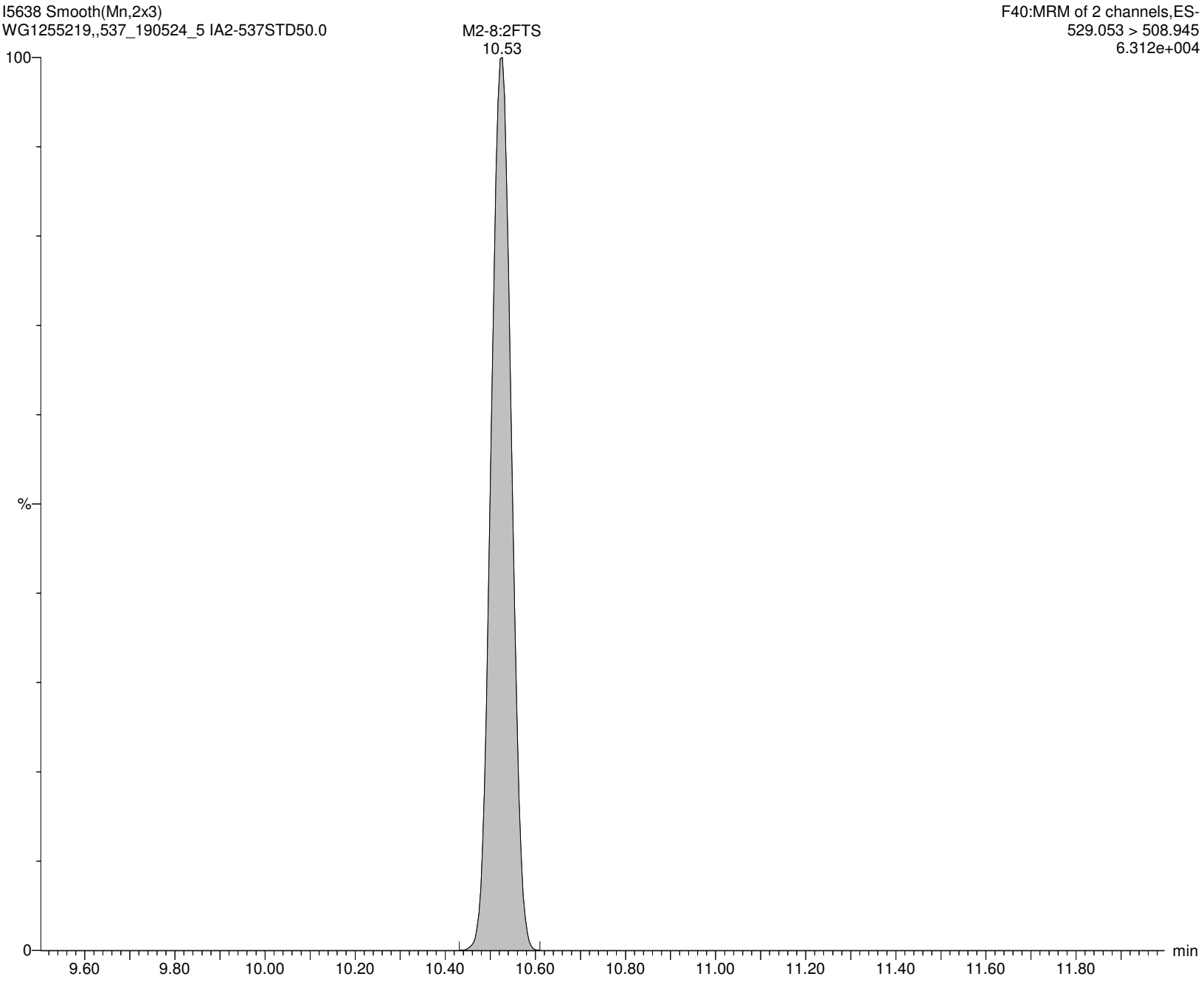


all concentration units in (ng/mL)

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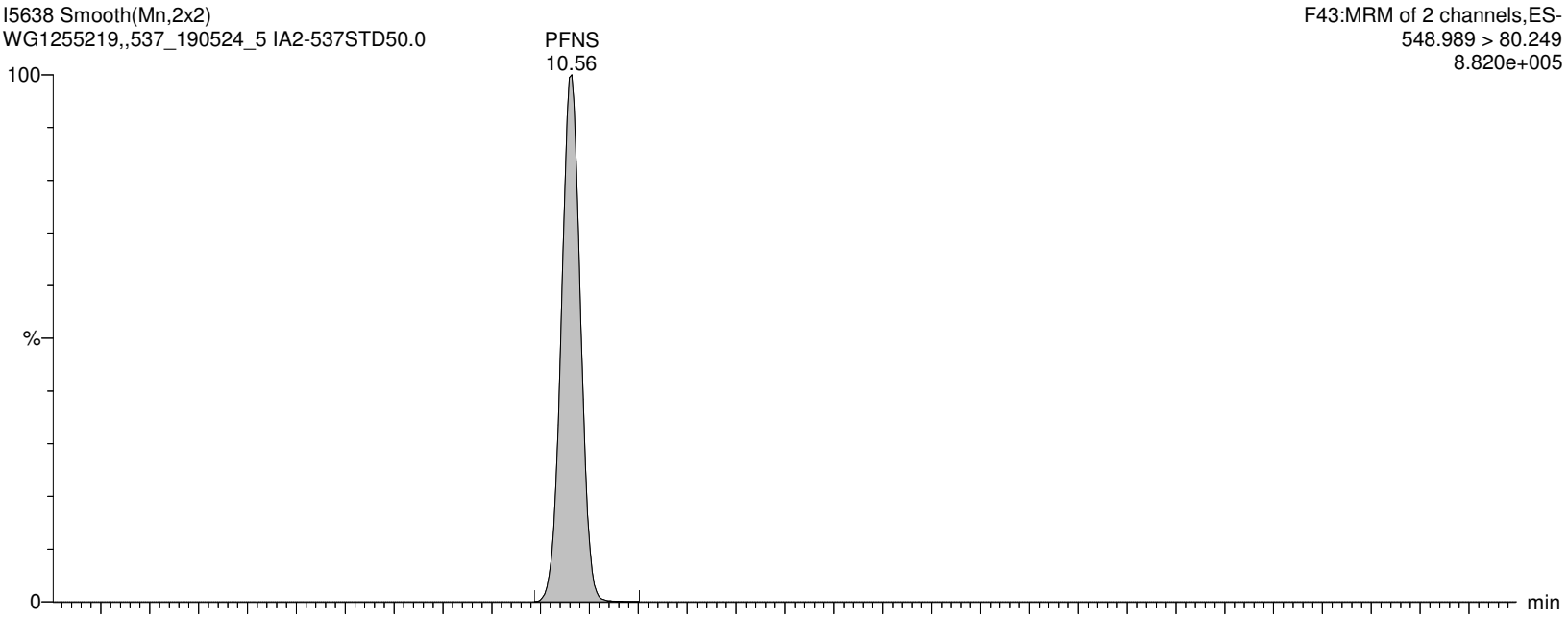


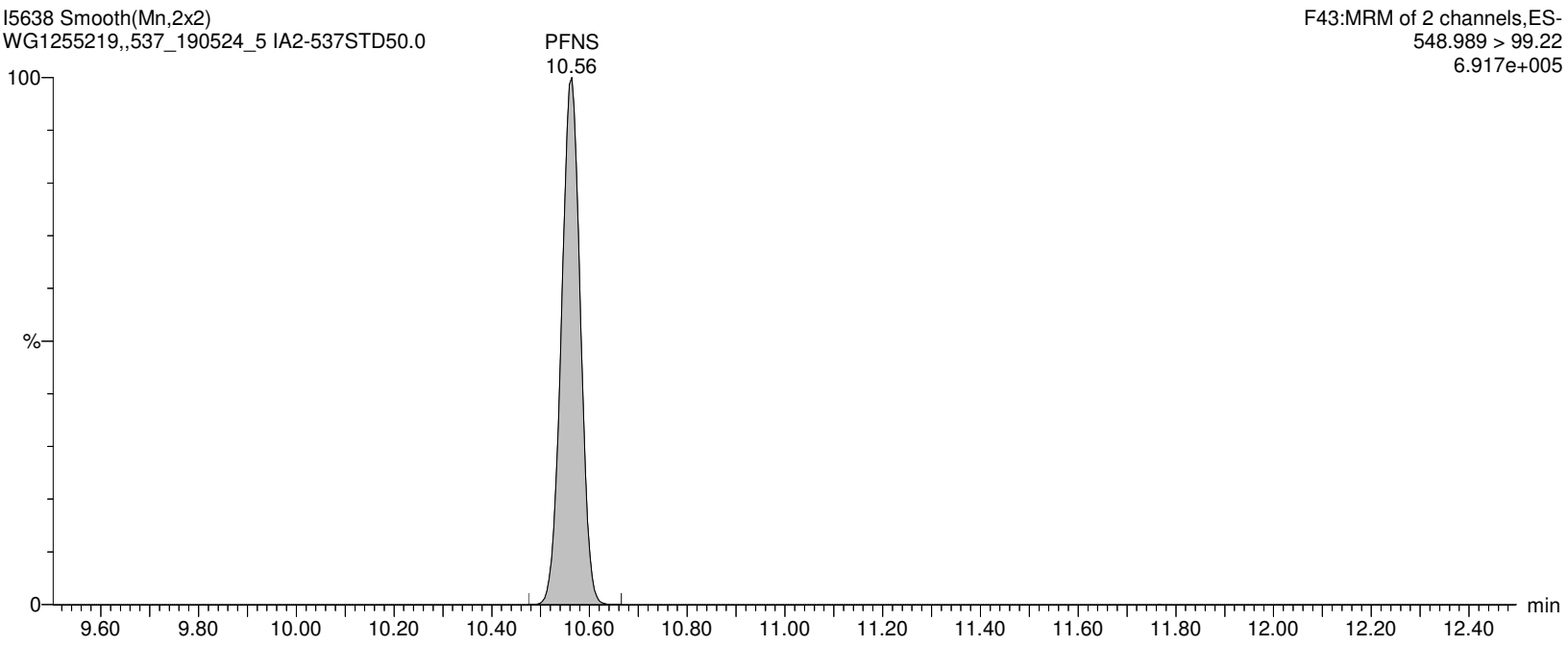
all concentration units in (ng/mL)

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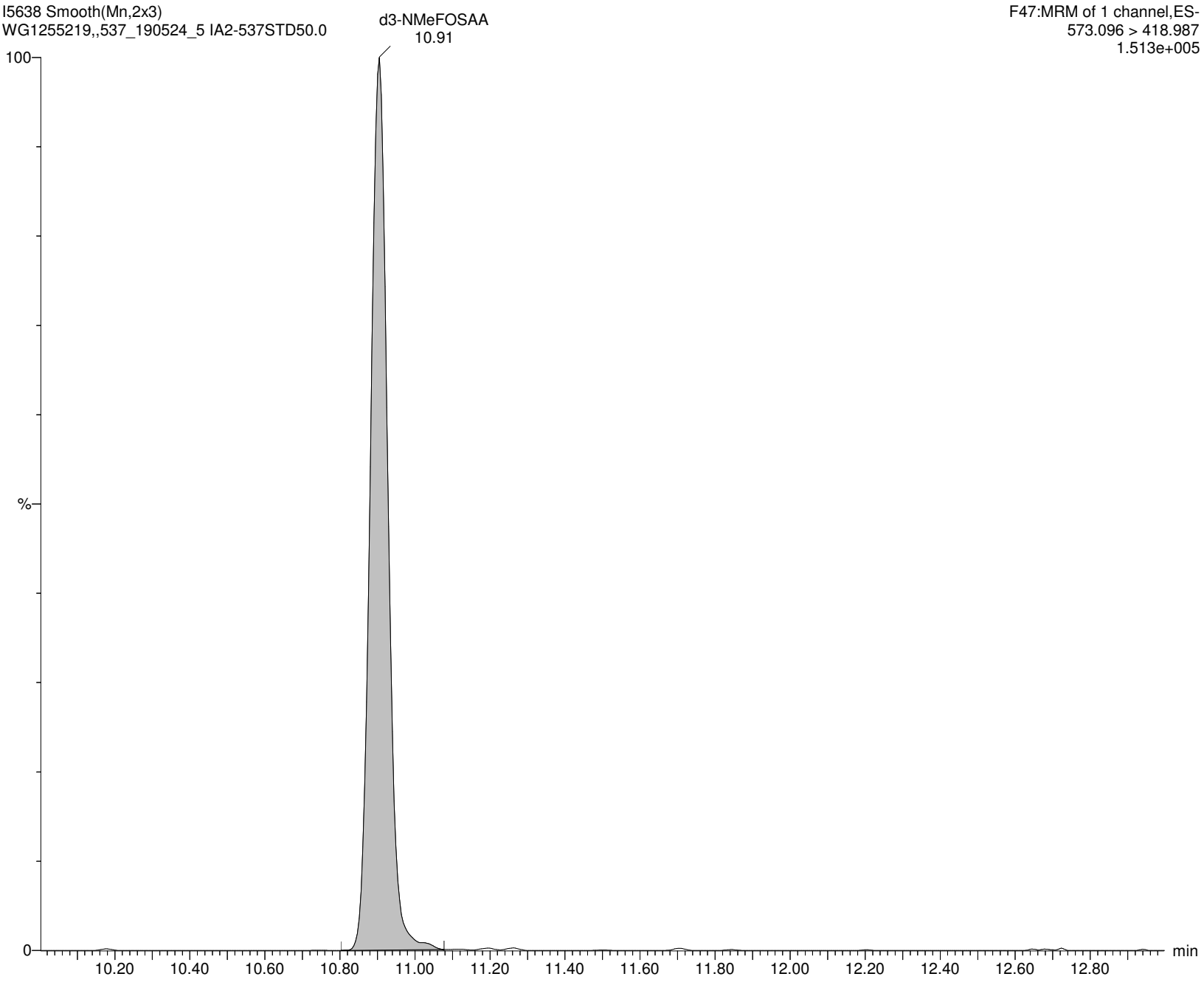


all concentration units in (ng/mL)

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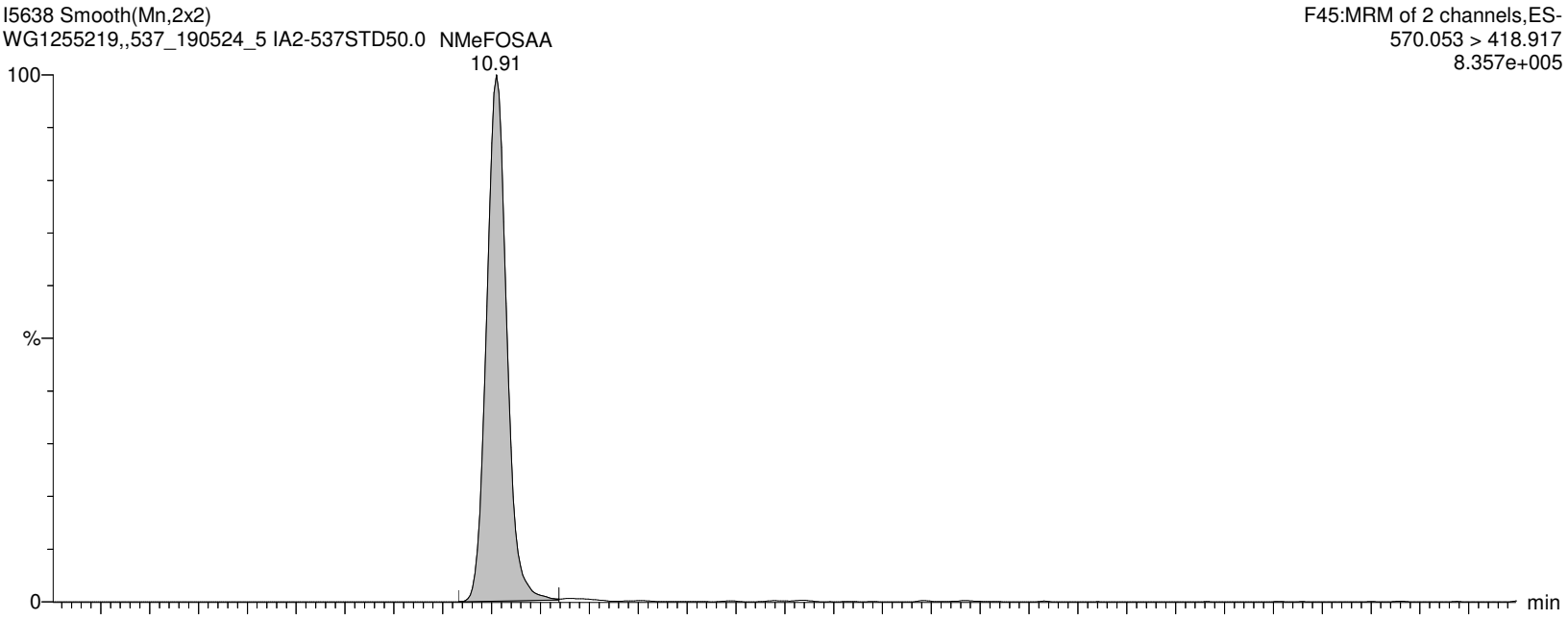


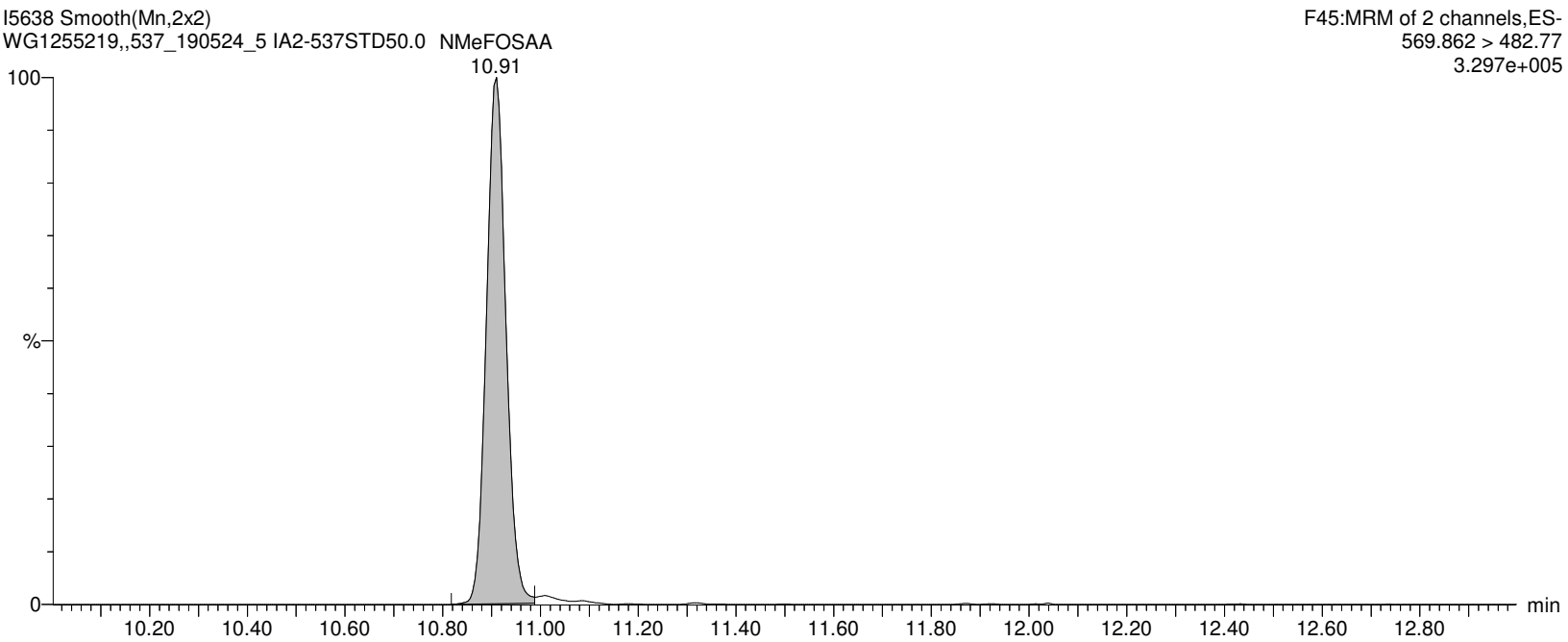
all concentration units in (ng/mL)

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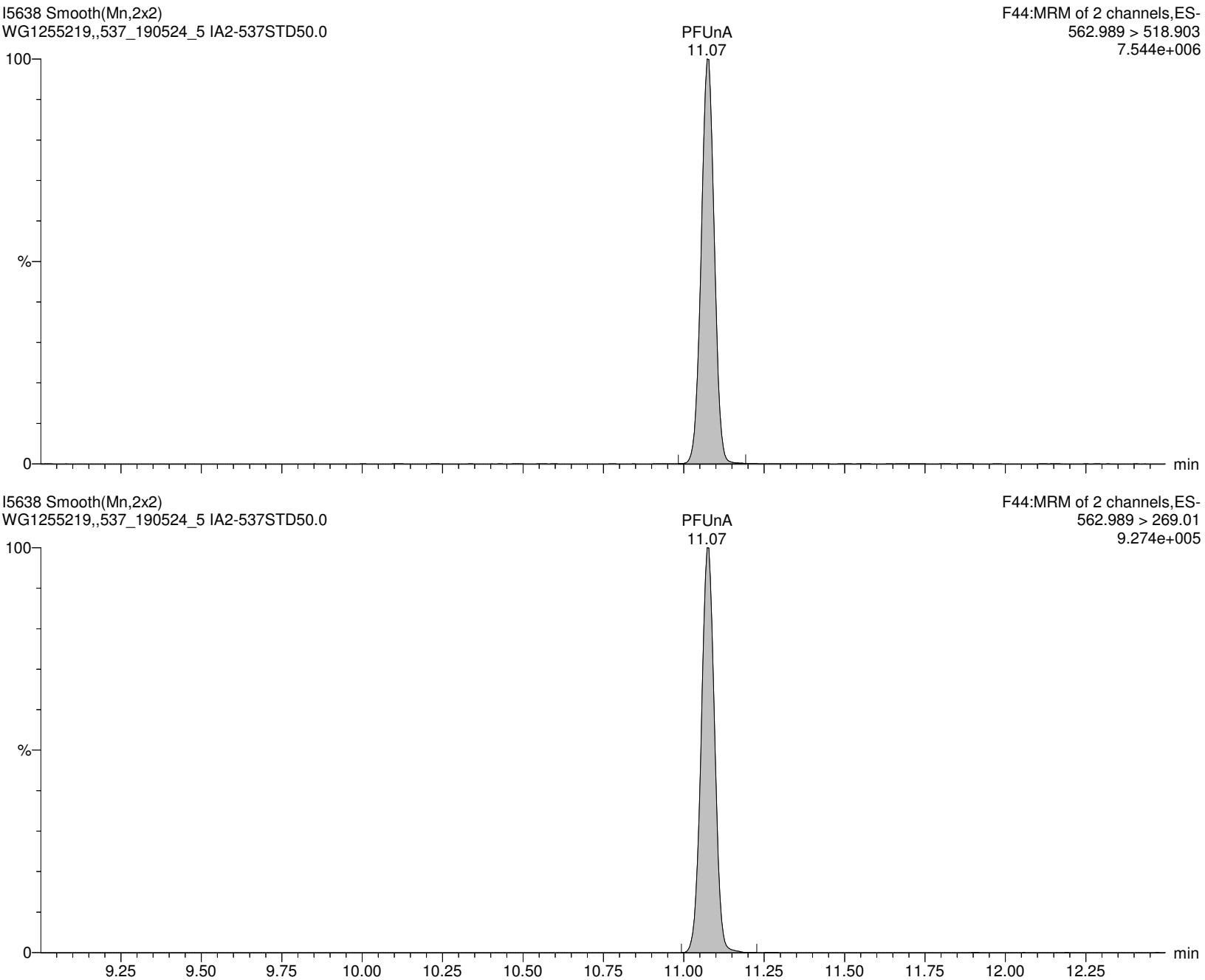


all concentration units in (ng/mL)

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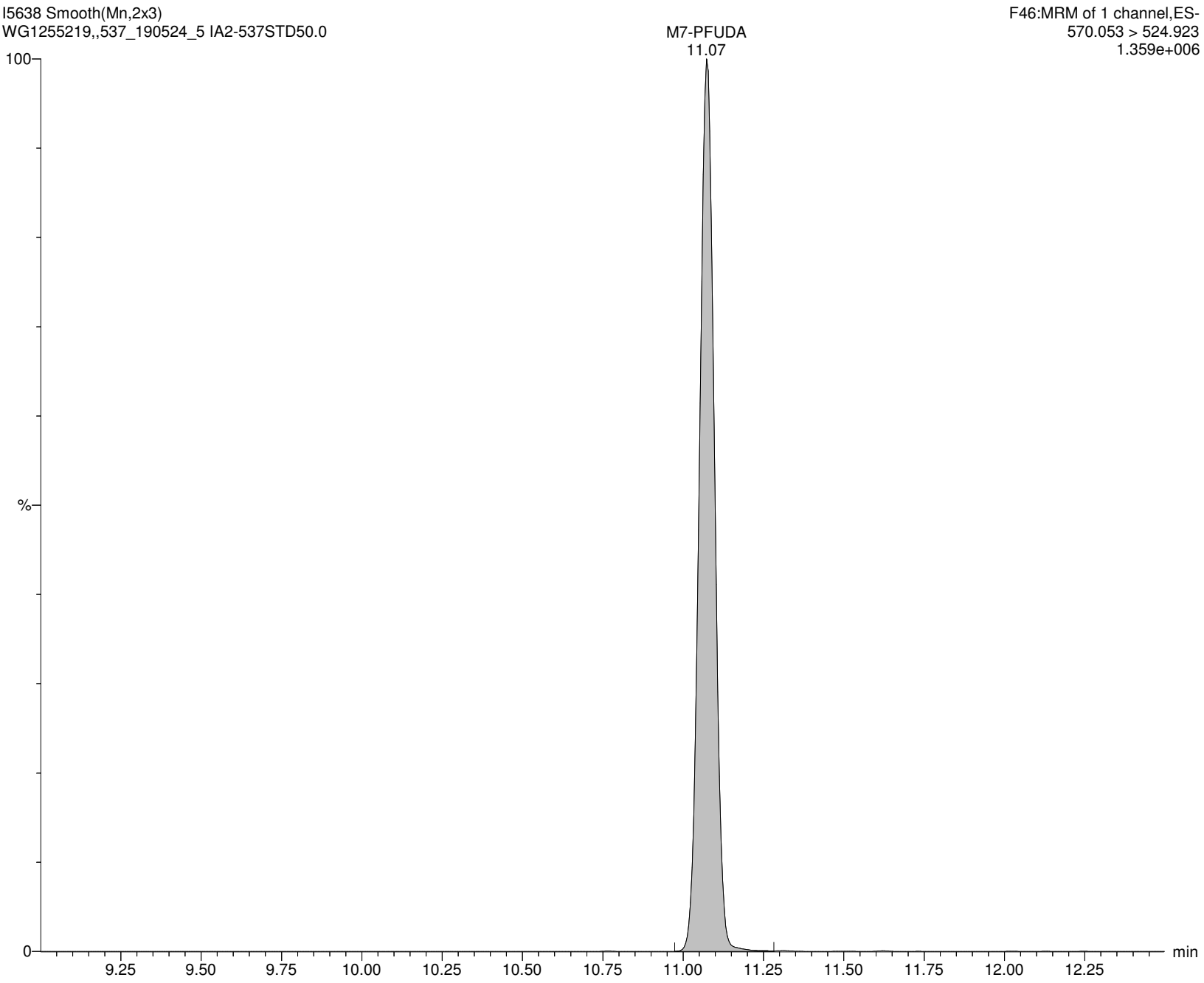


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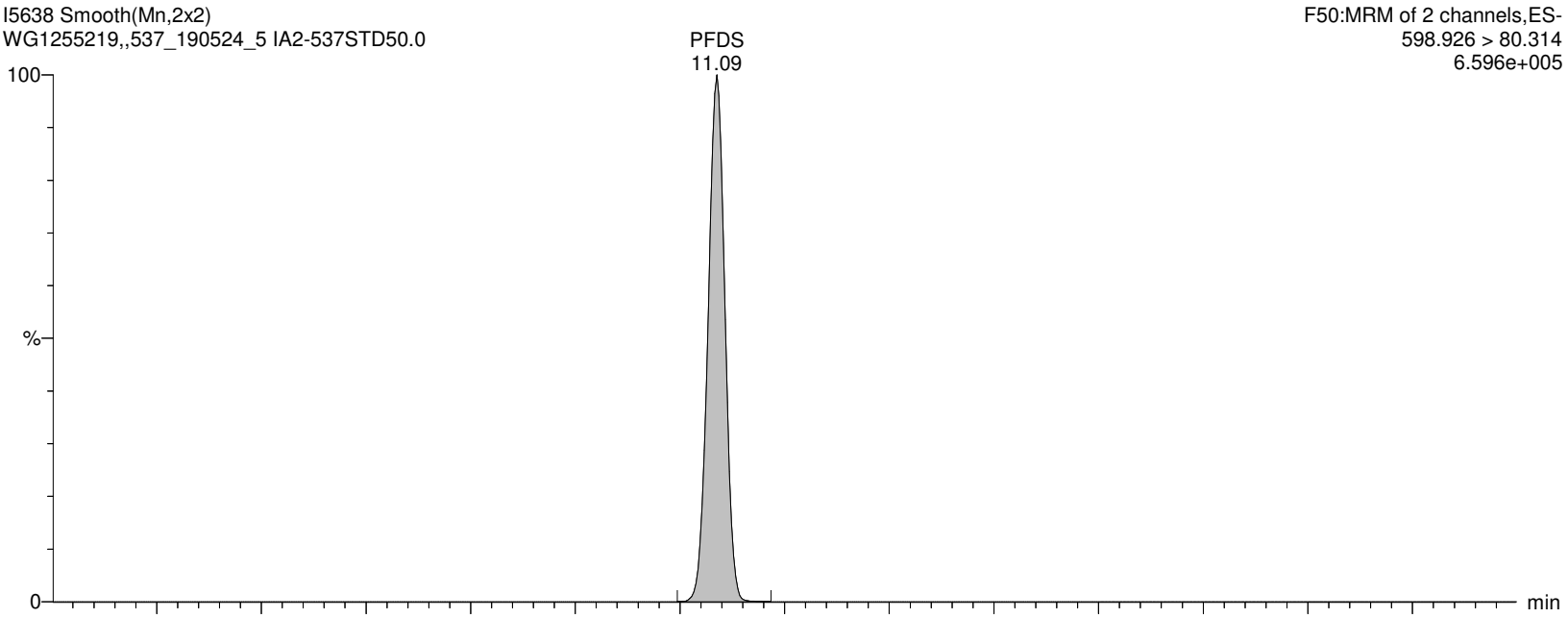


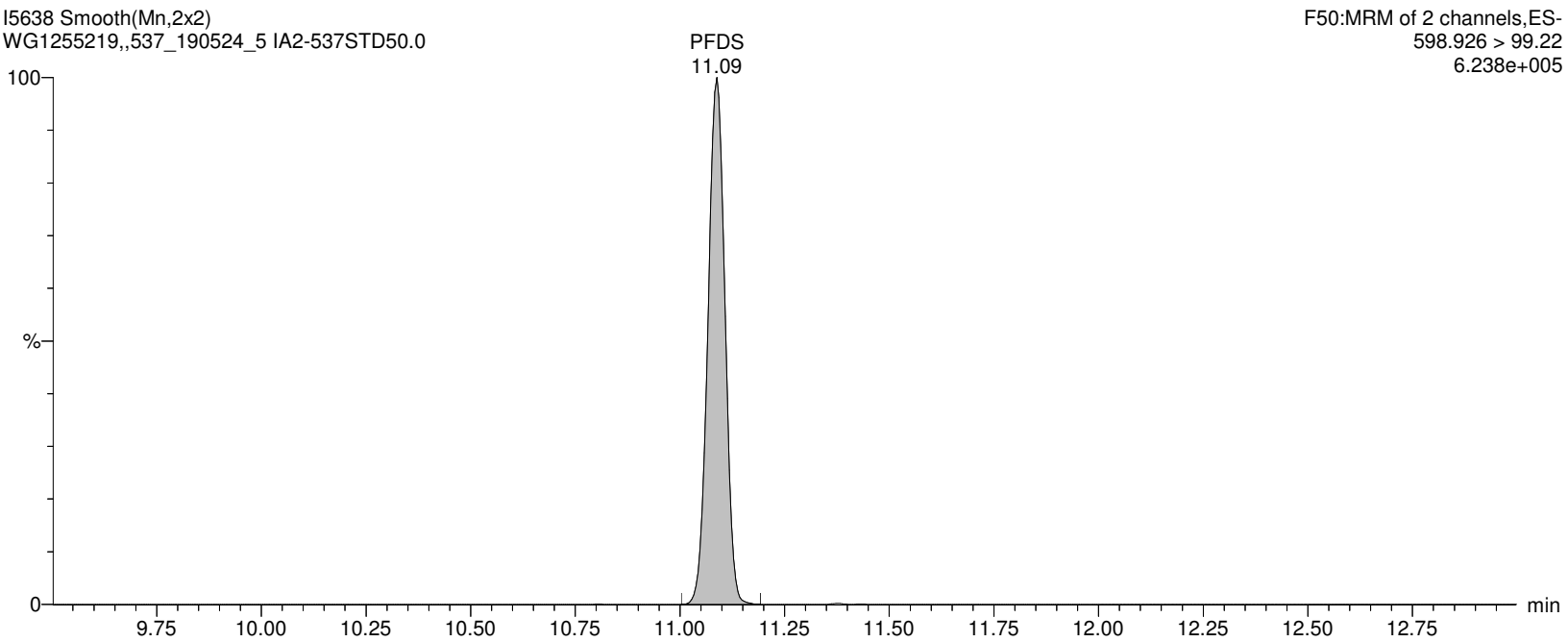
all concentration units in (ng/mL)

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PFDS



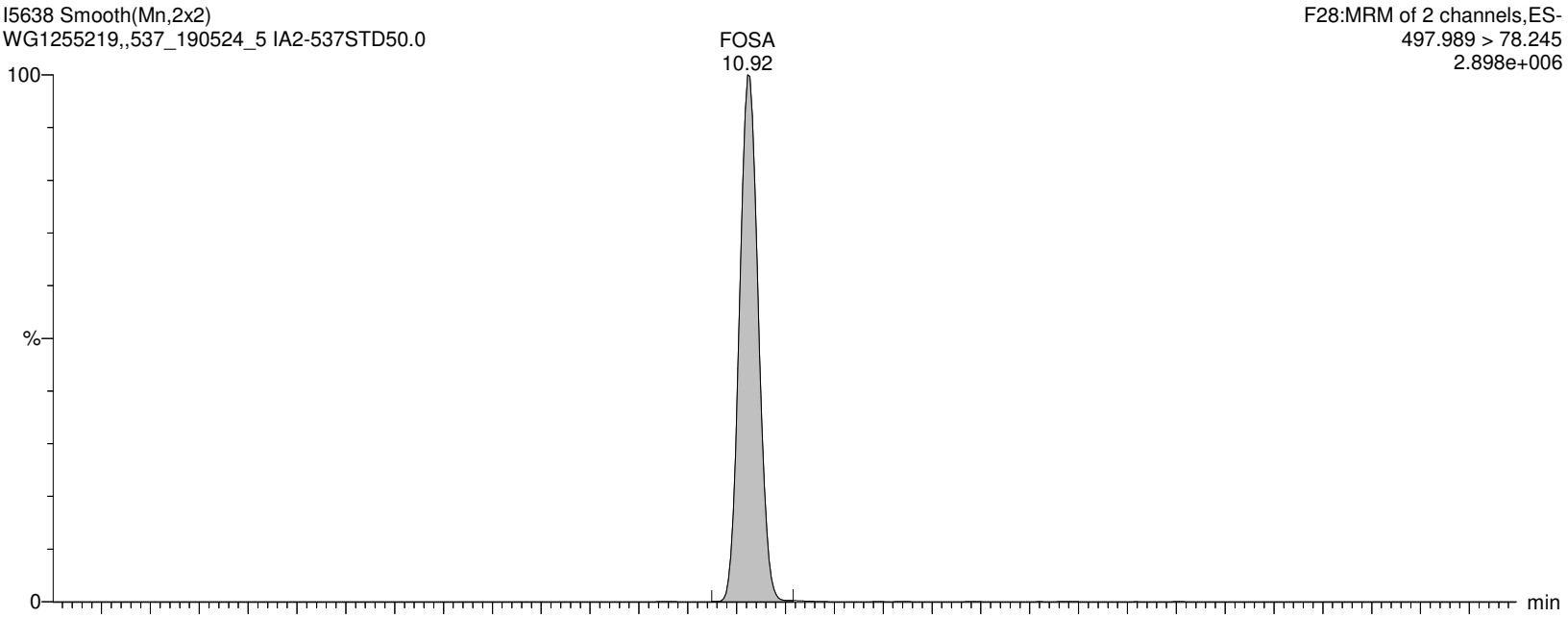


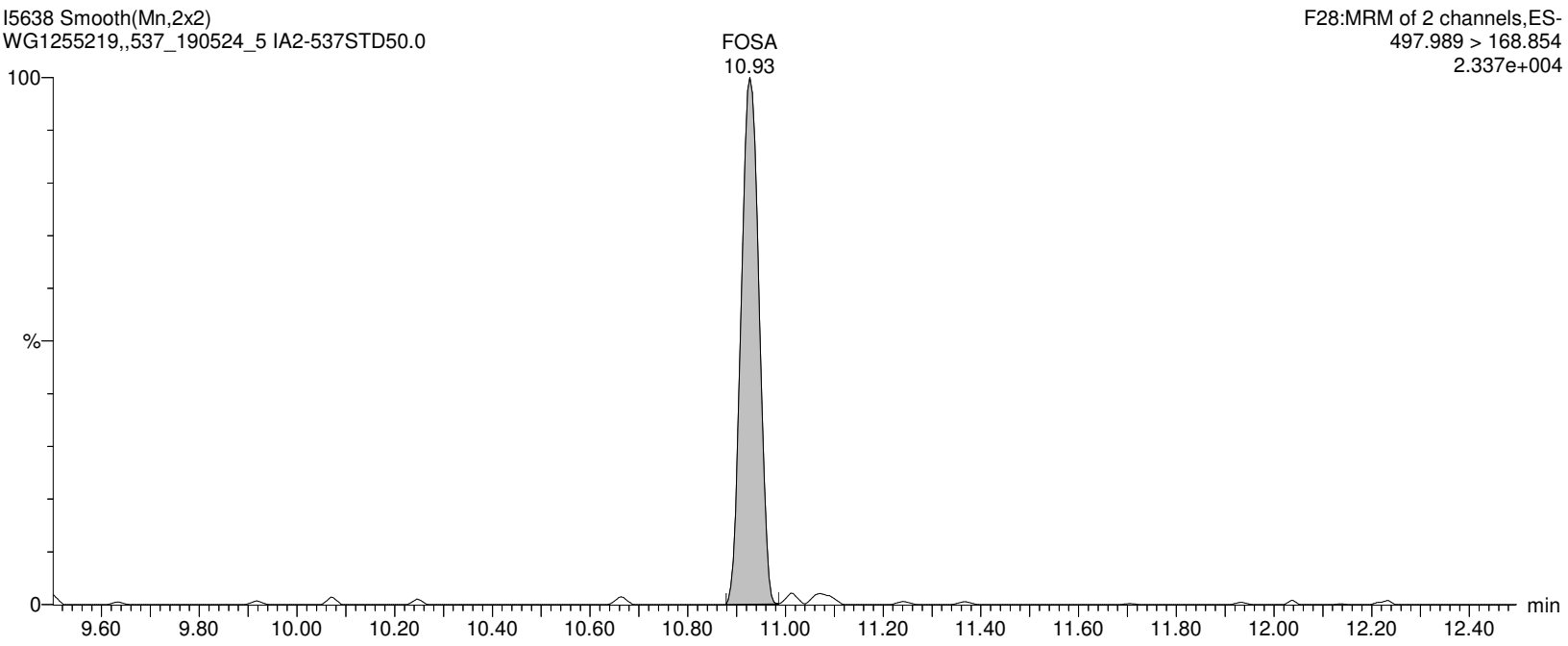
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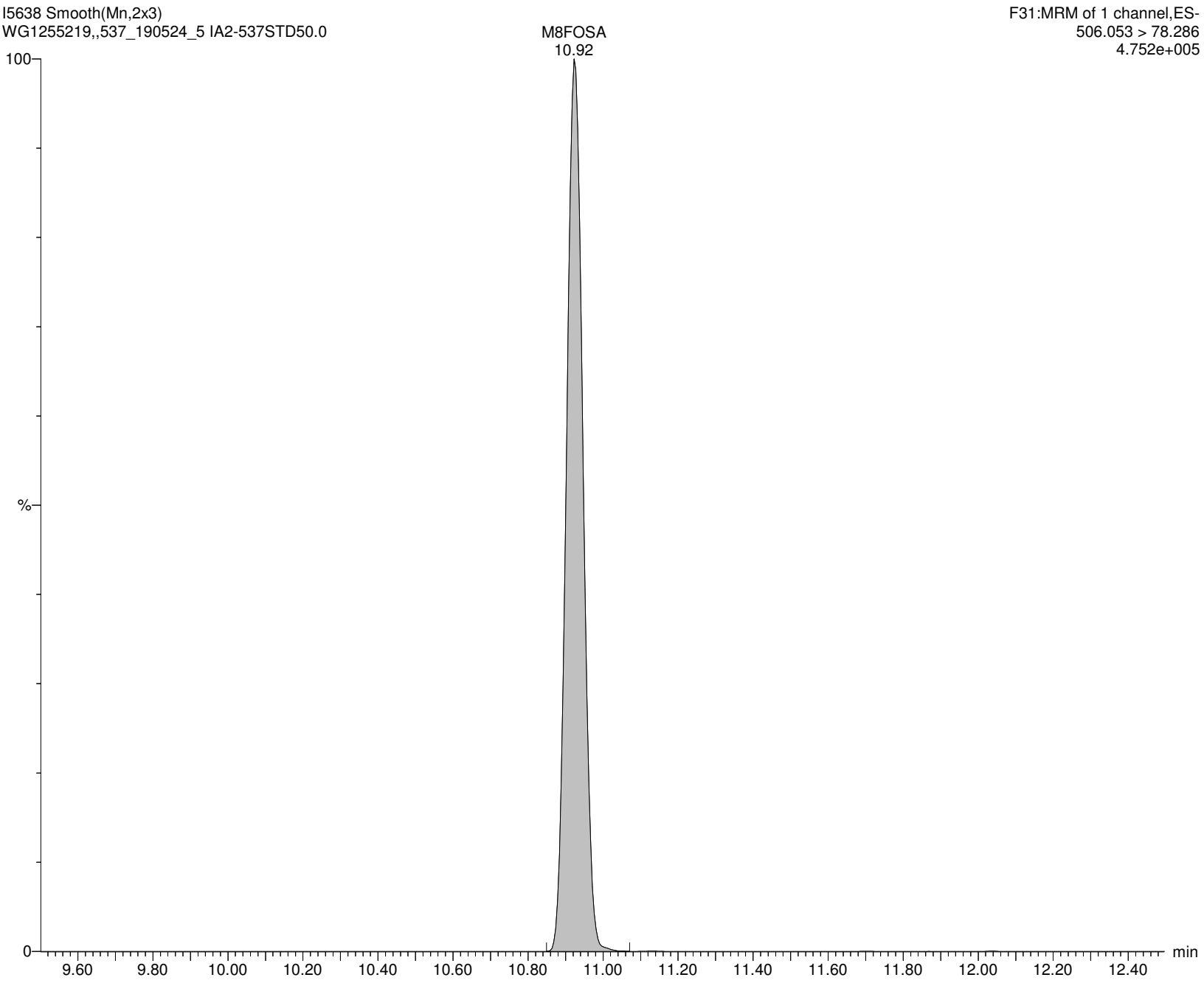


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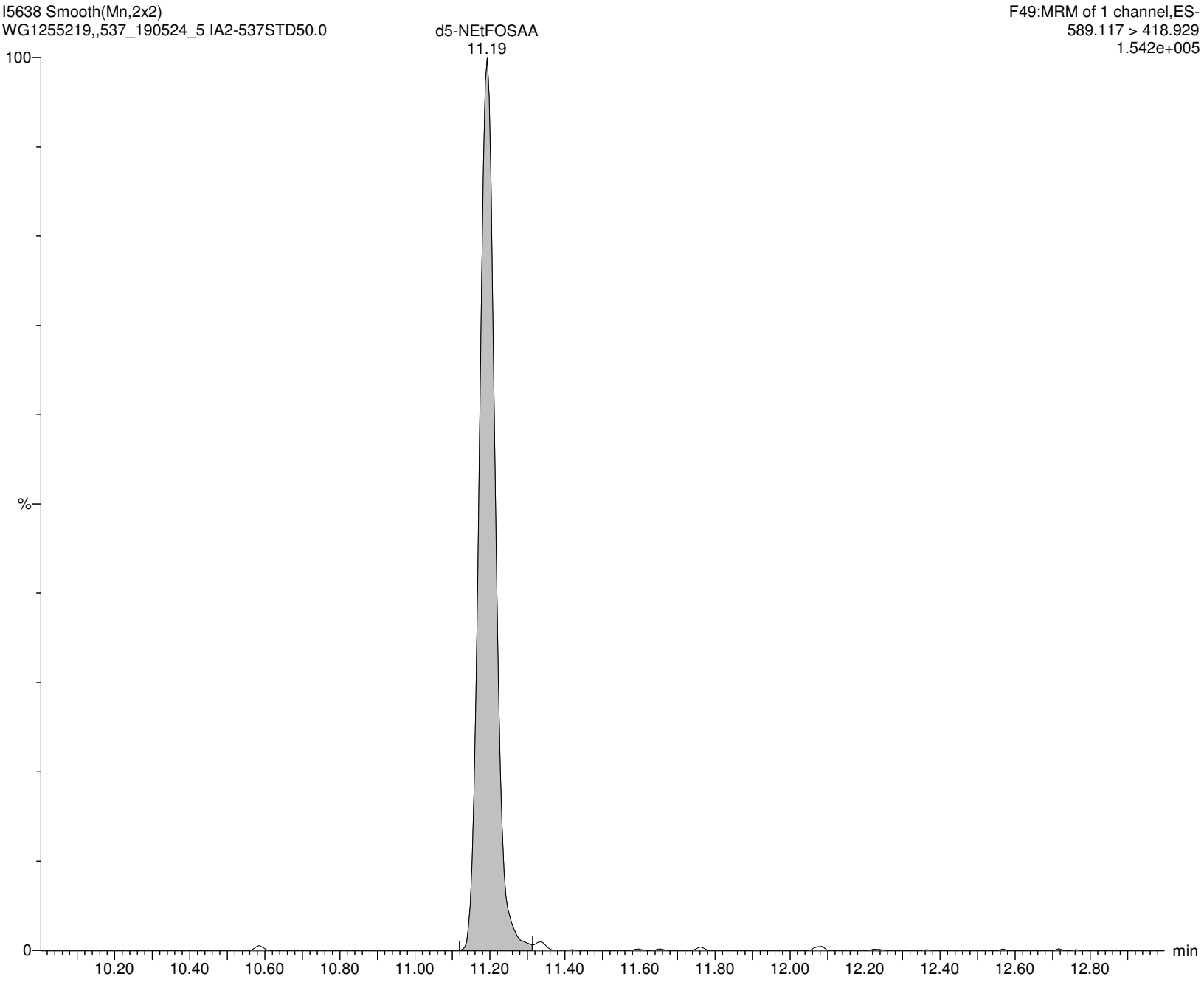


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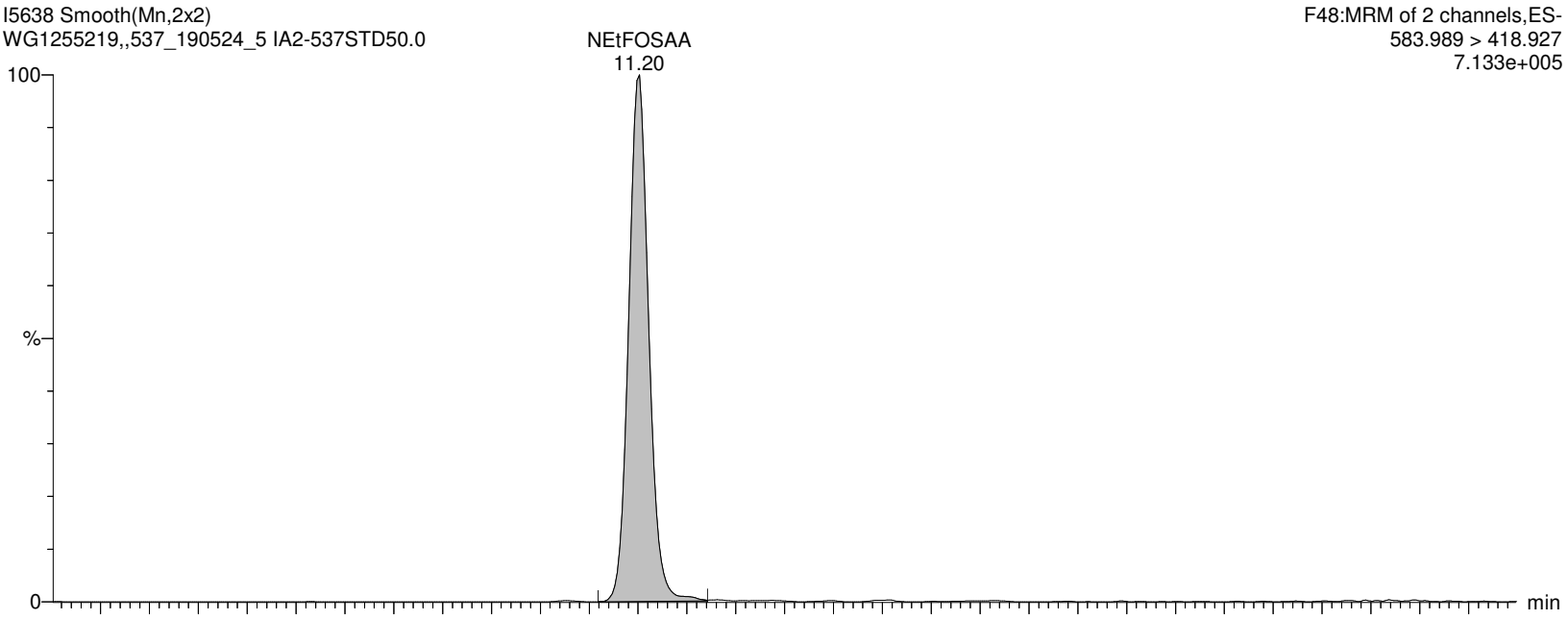


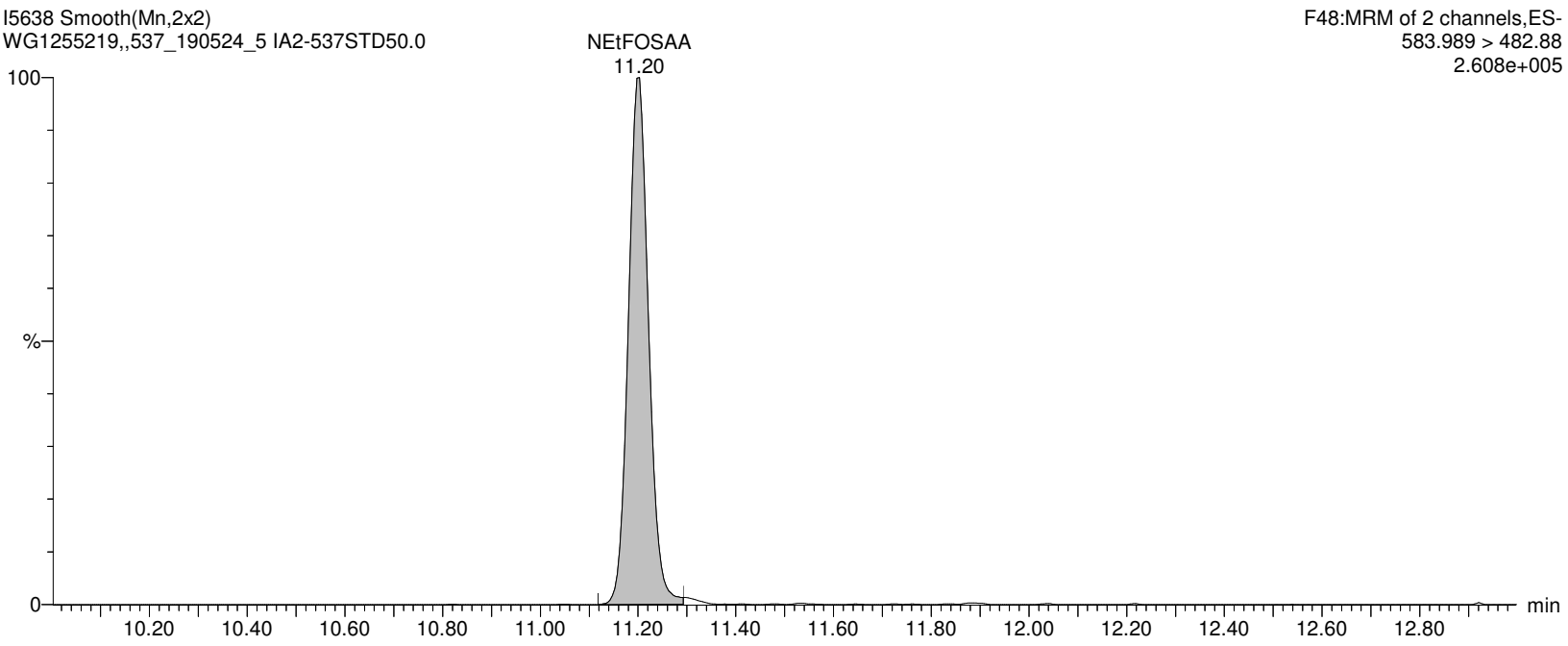
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Printed: Tuesday, July 02, 2019 11:08:38 Eastern Daylight Time

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ID: IA2-537STD50.0
Date: 01-Jul-2019
Time: 19:03:37
Description: WG1255219,,537_190524_5
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Vial: 1:A,6
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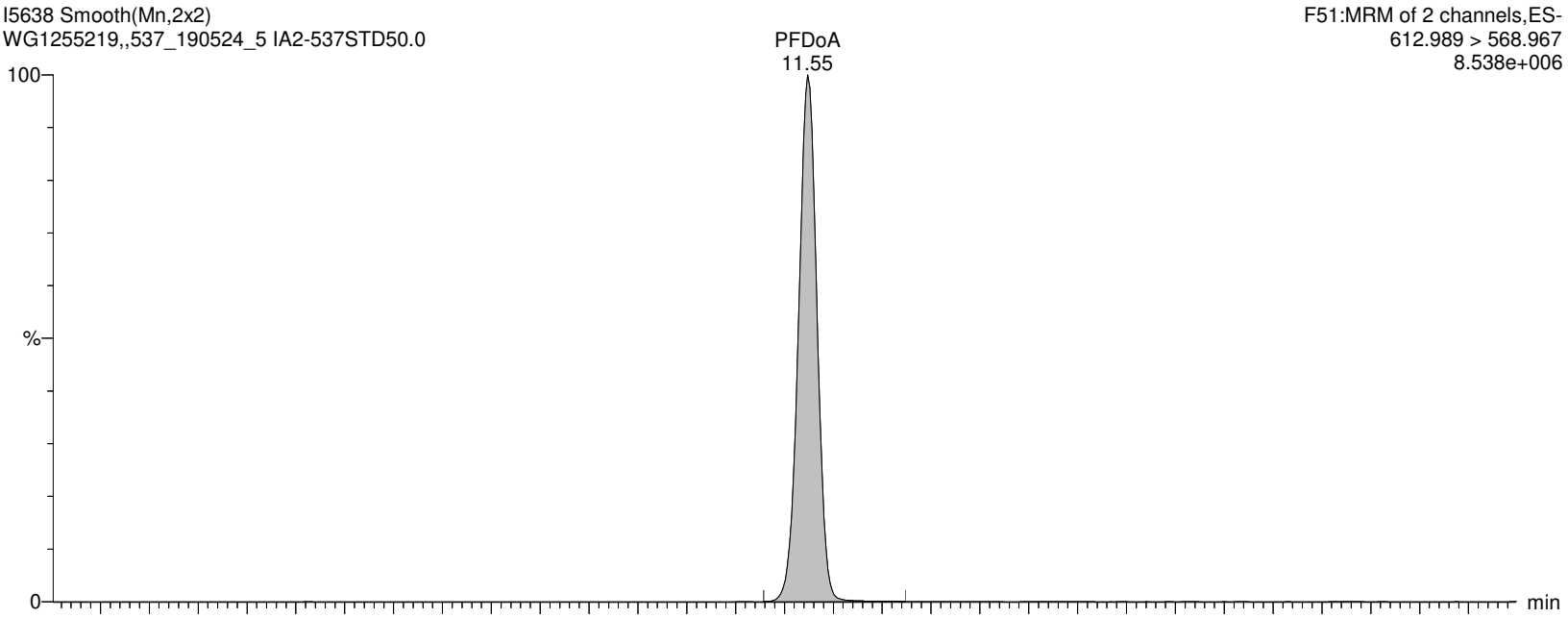


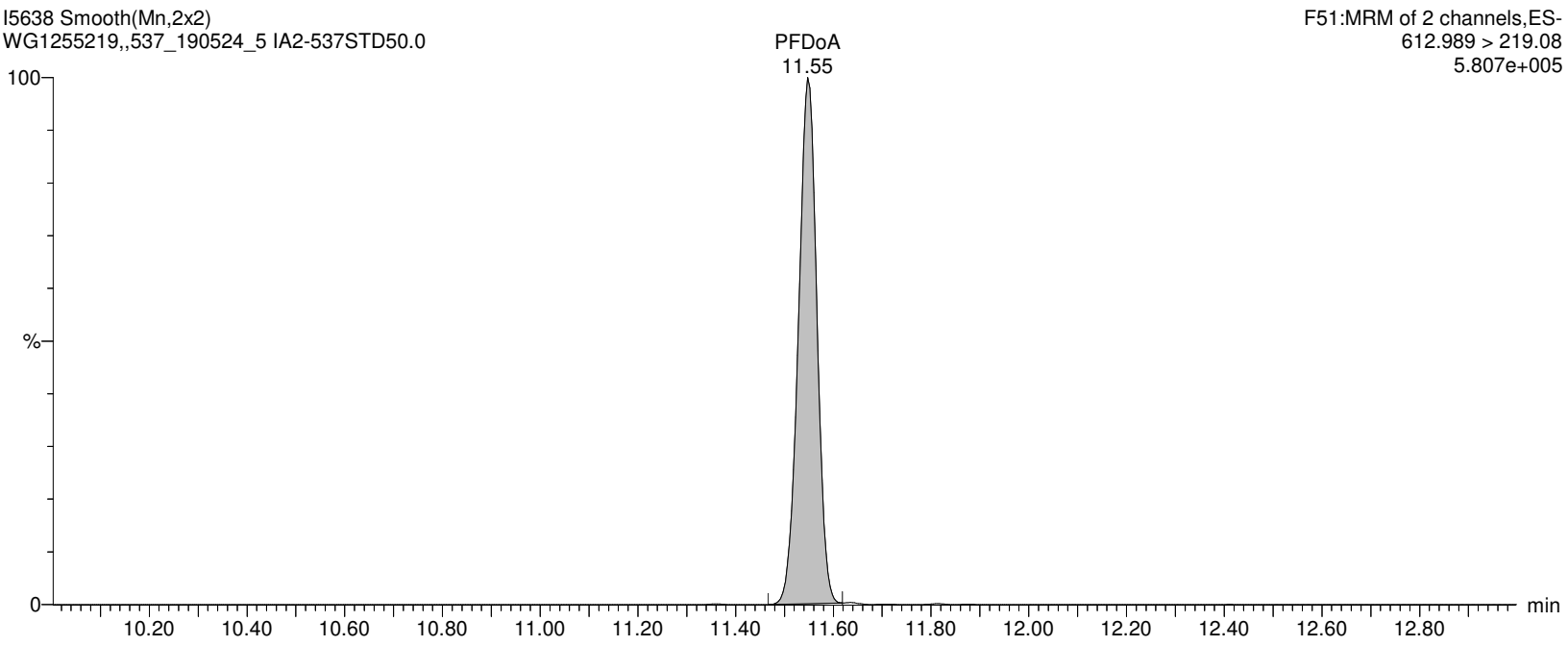
all concentration units in (ng/mL)

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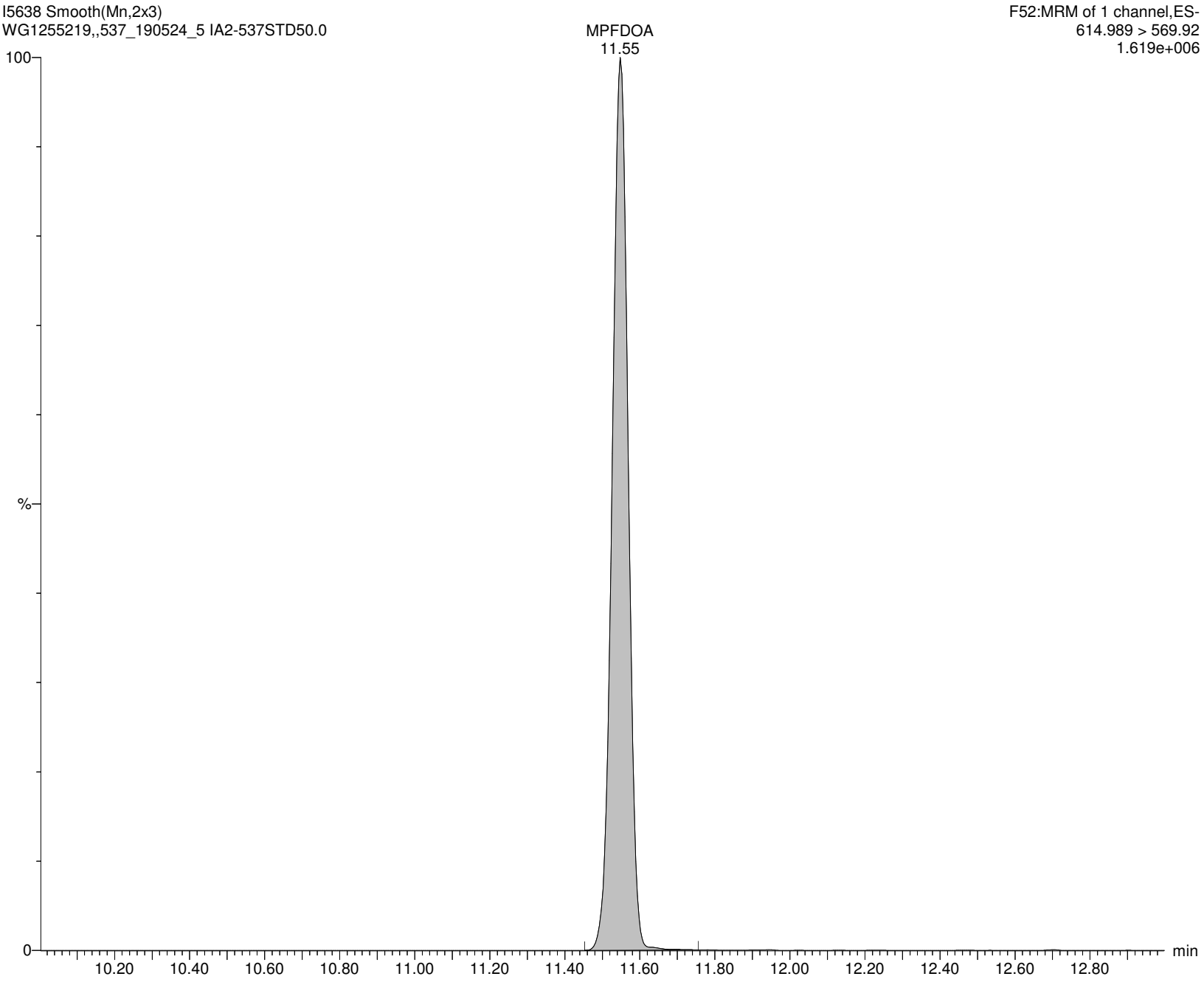


all concentration units in (ng/mL)

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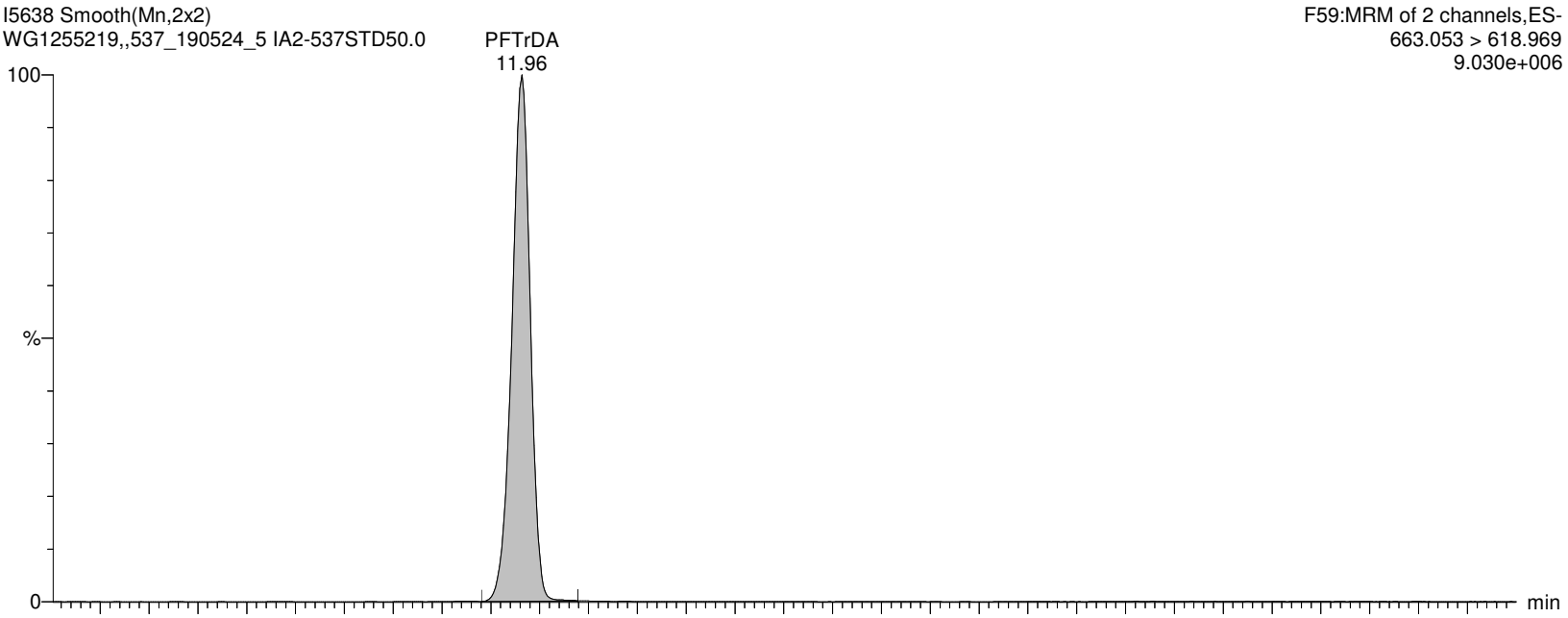


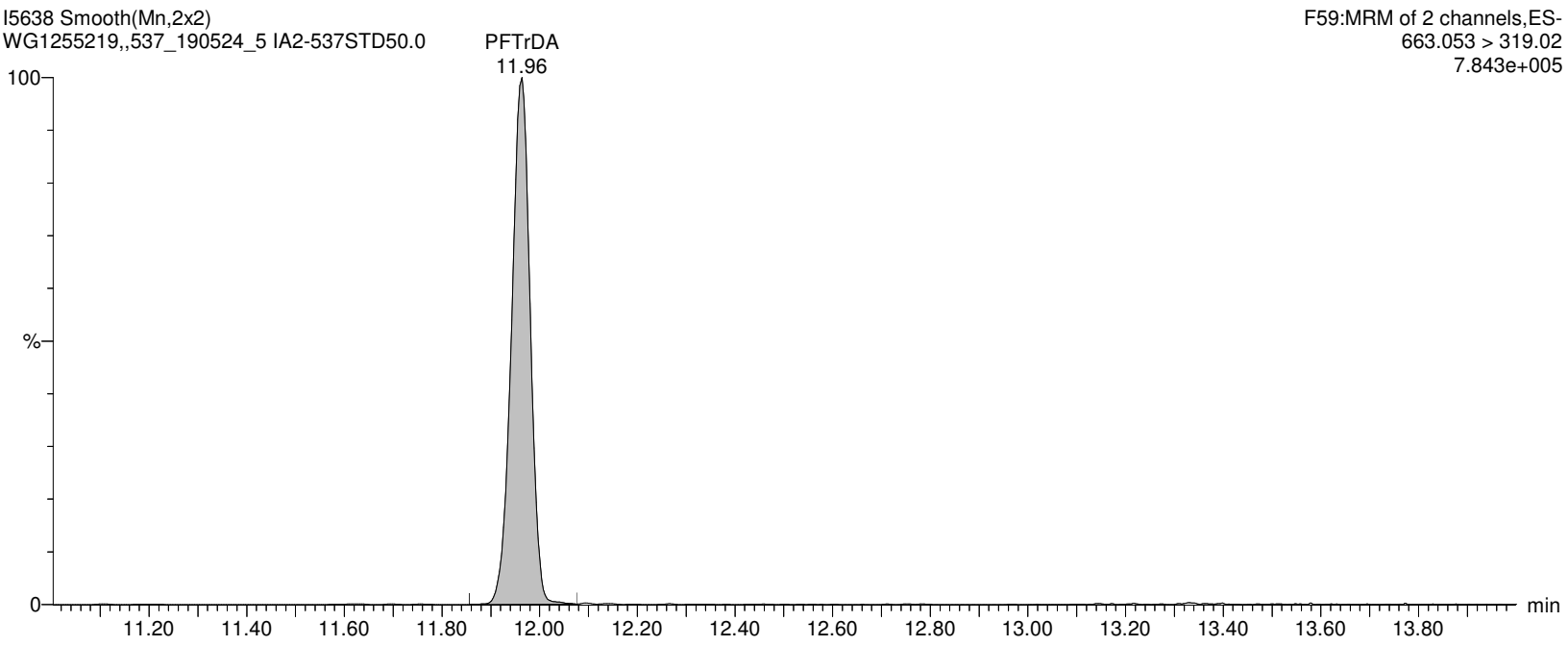
all concentration units in (ng/mL)

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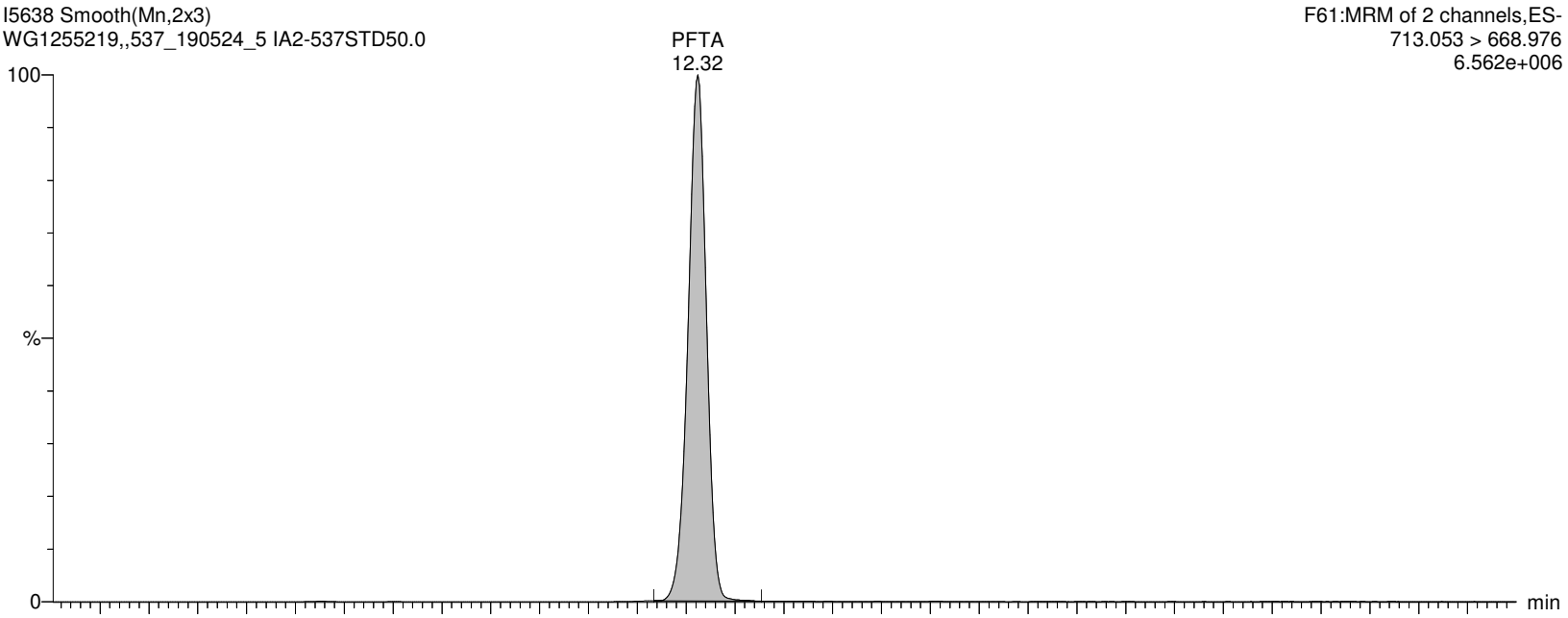


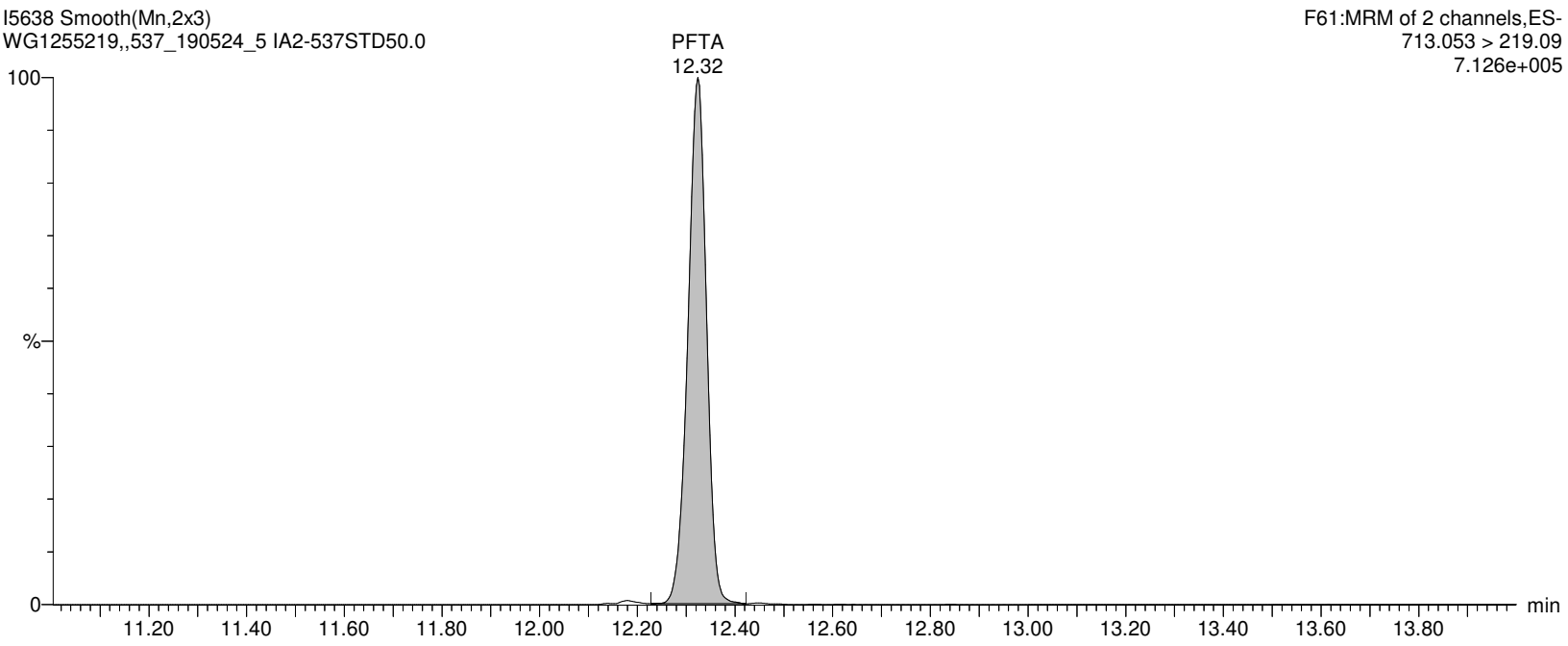
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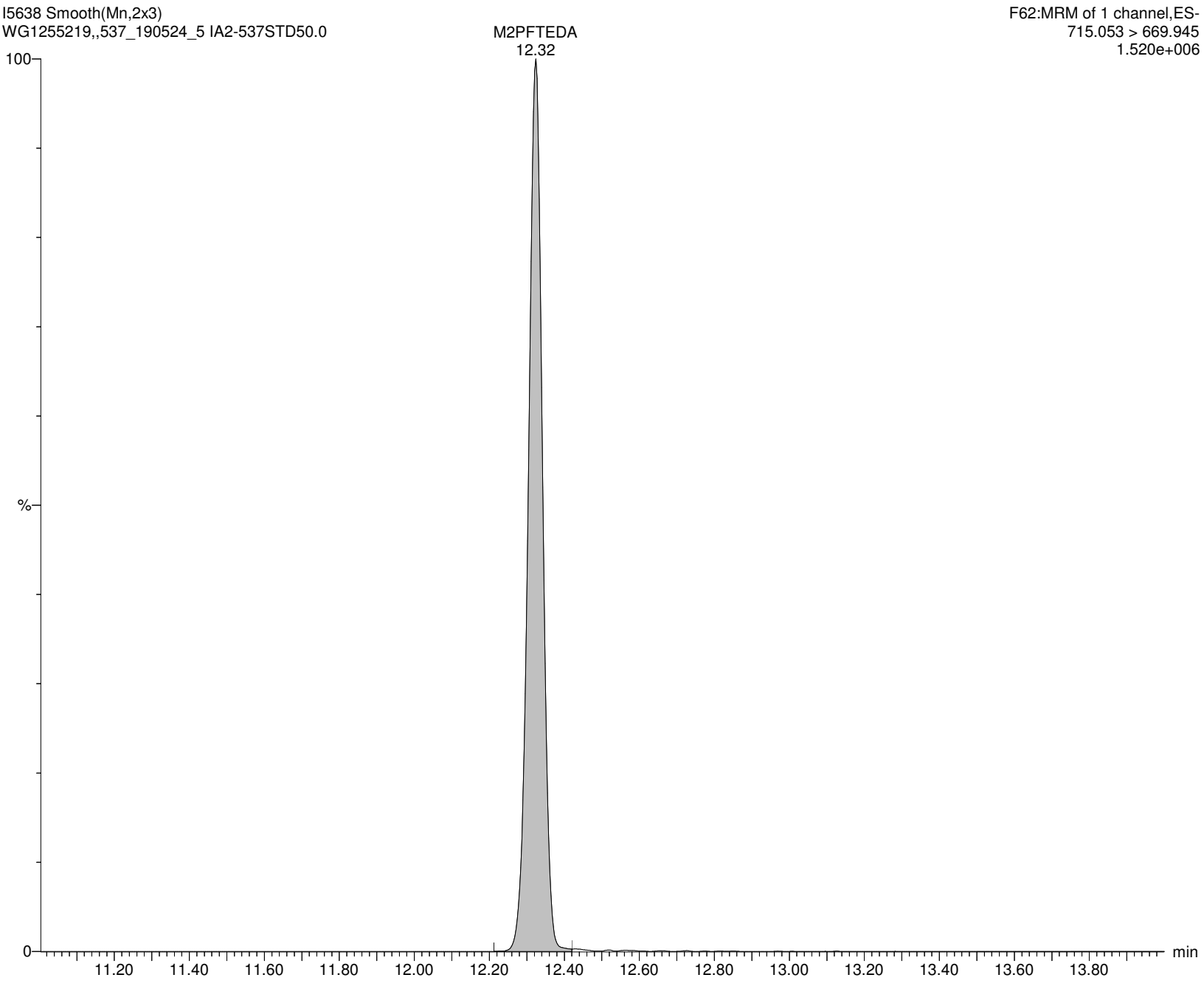


all concentration units in (ng/mL)

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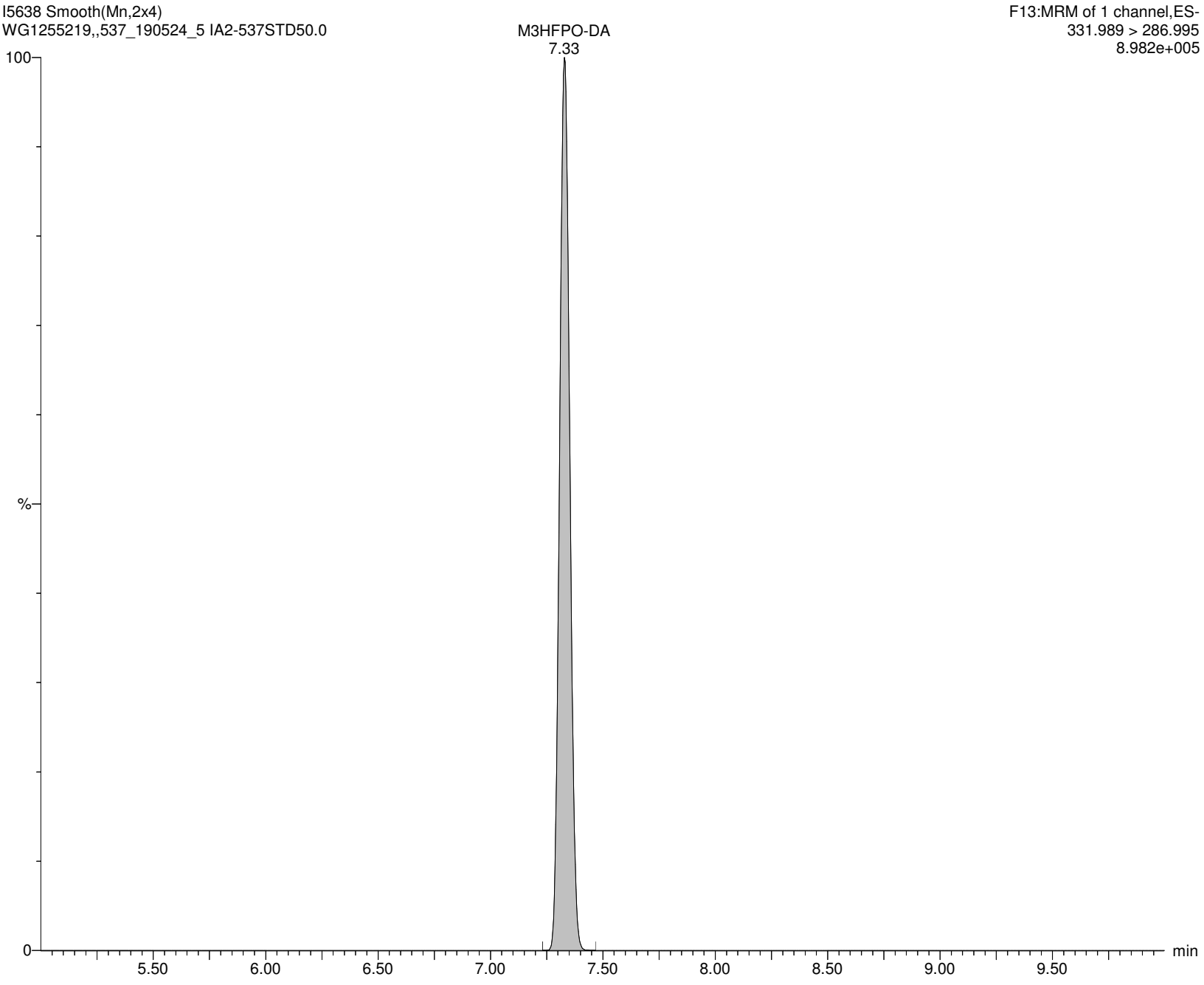


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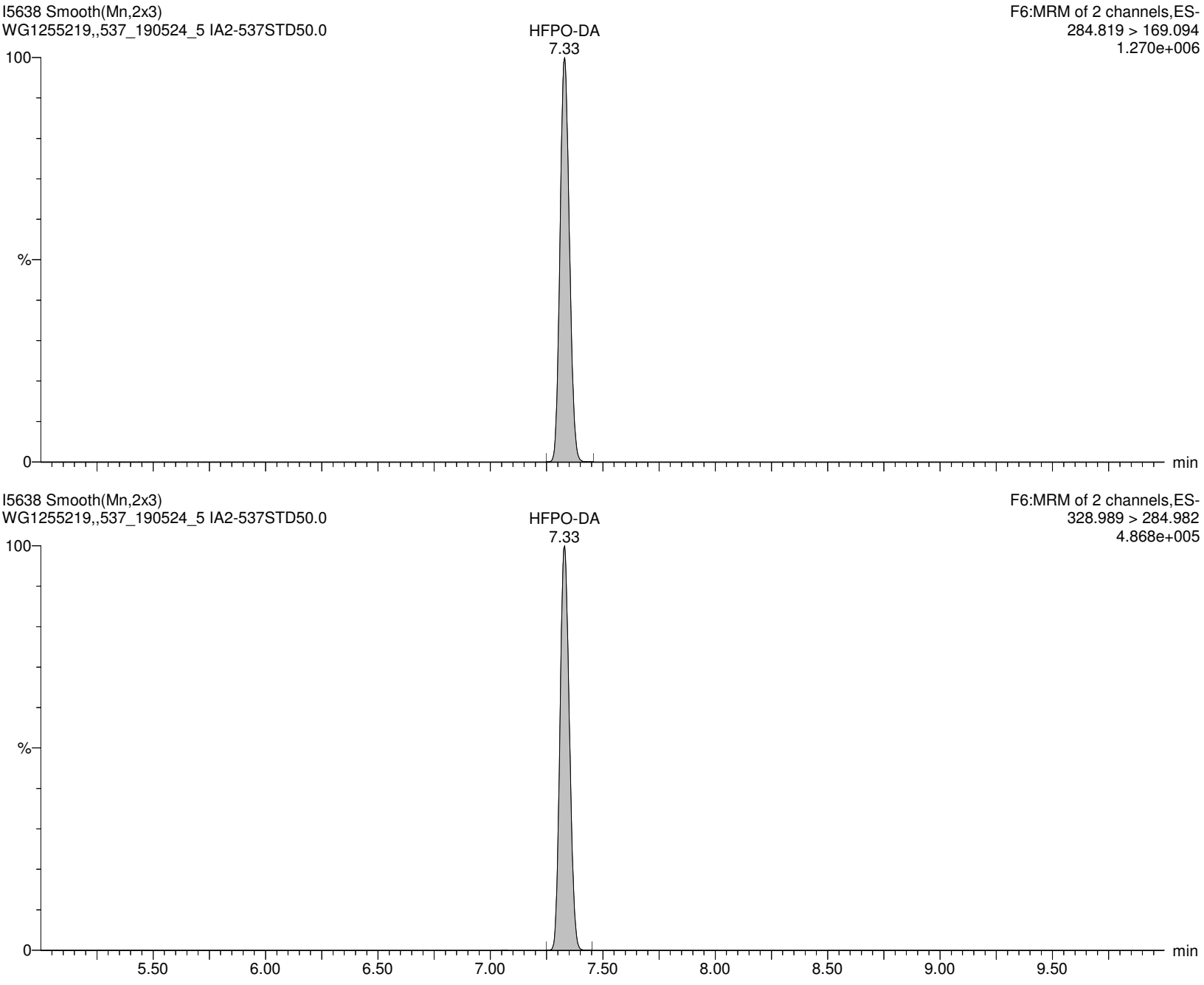


all concentration units in (ng/mL)

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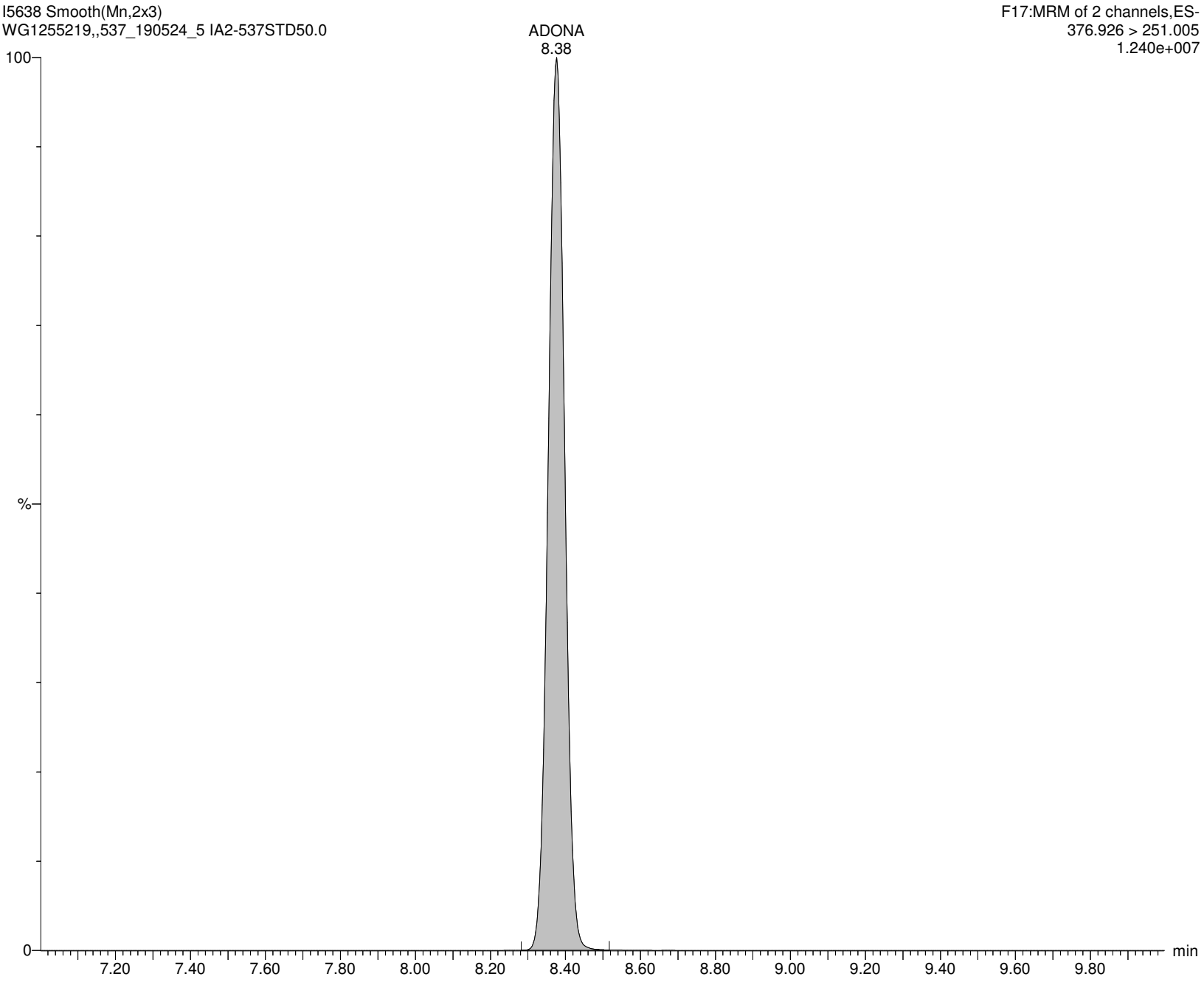


all concentration units in (ng/mL)

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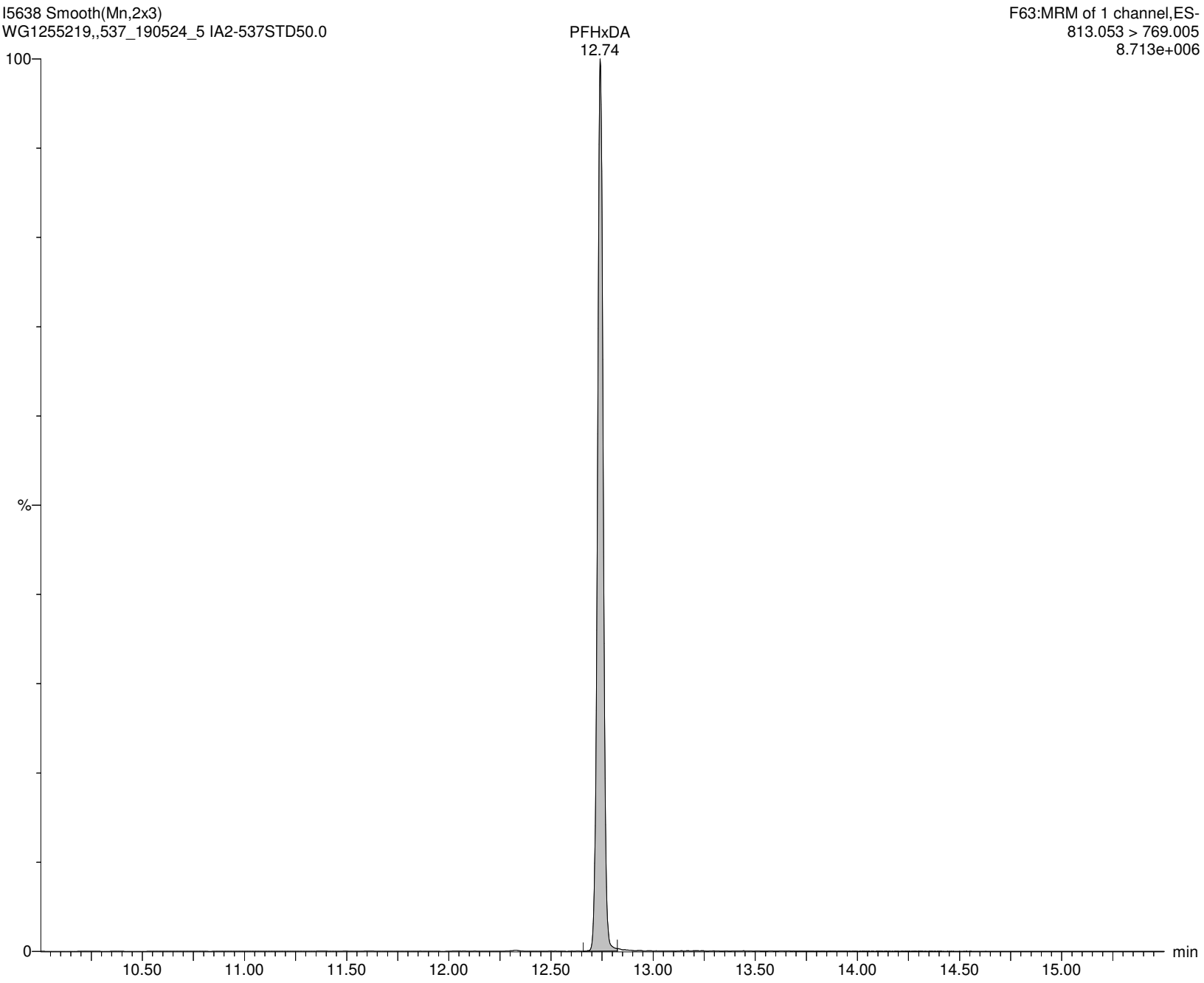


all concentration units in (ng/mL)

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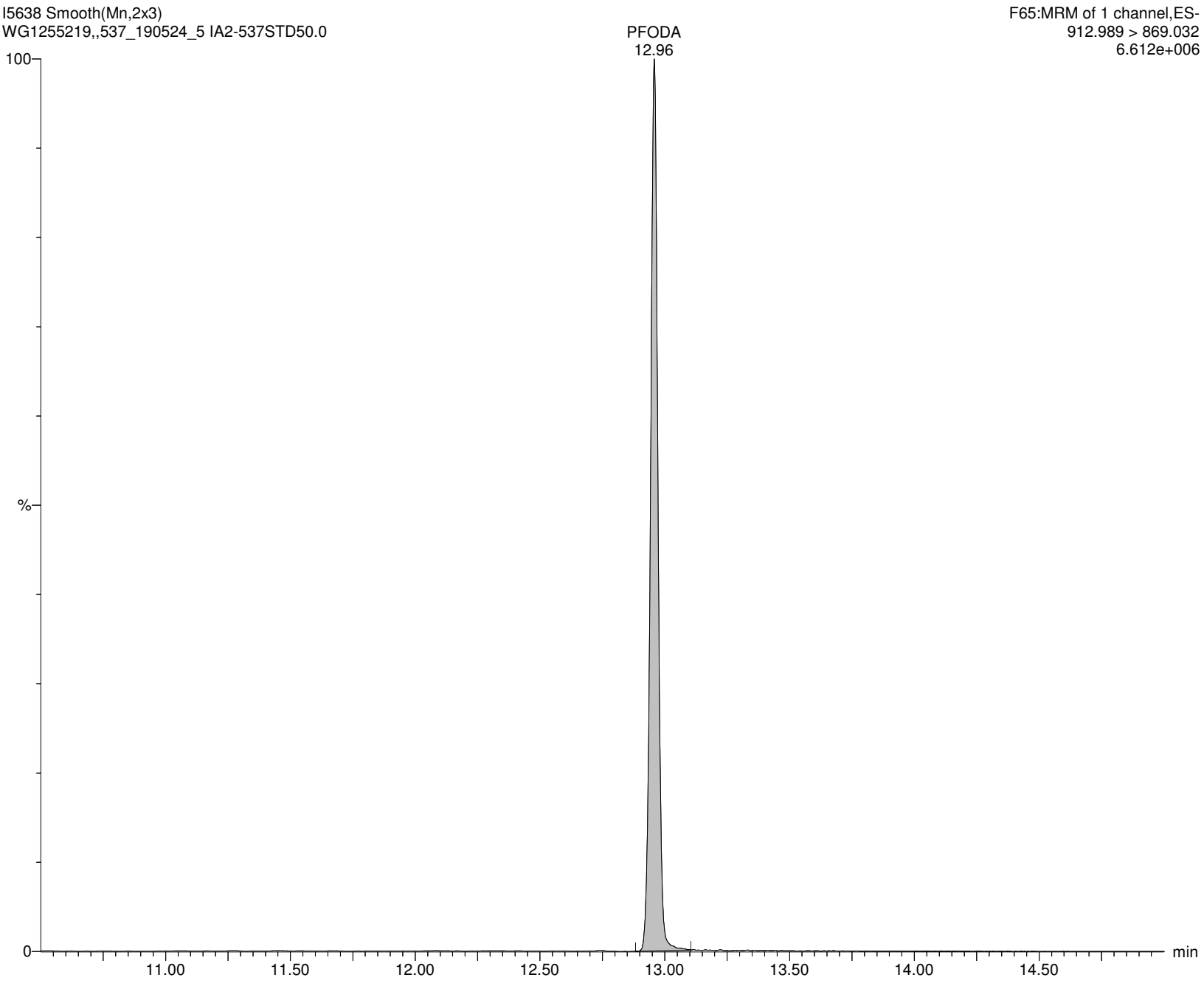


all concentration units in (ng/mL)

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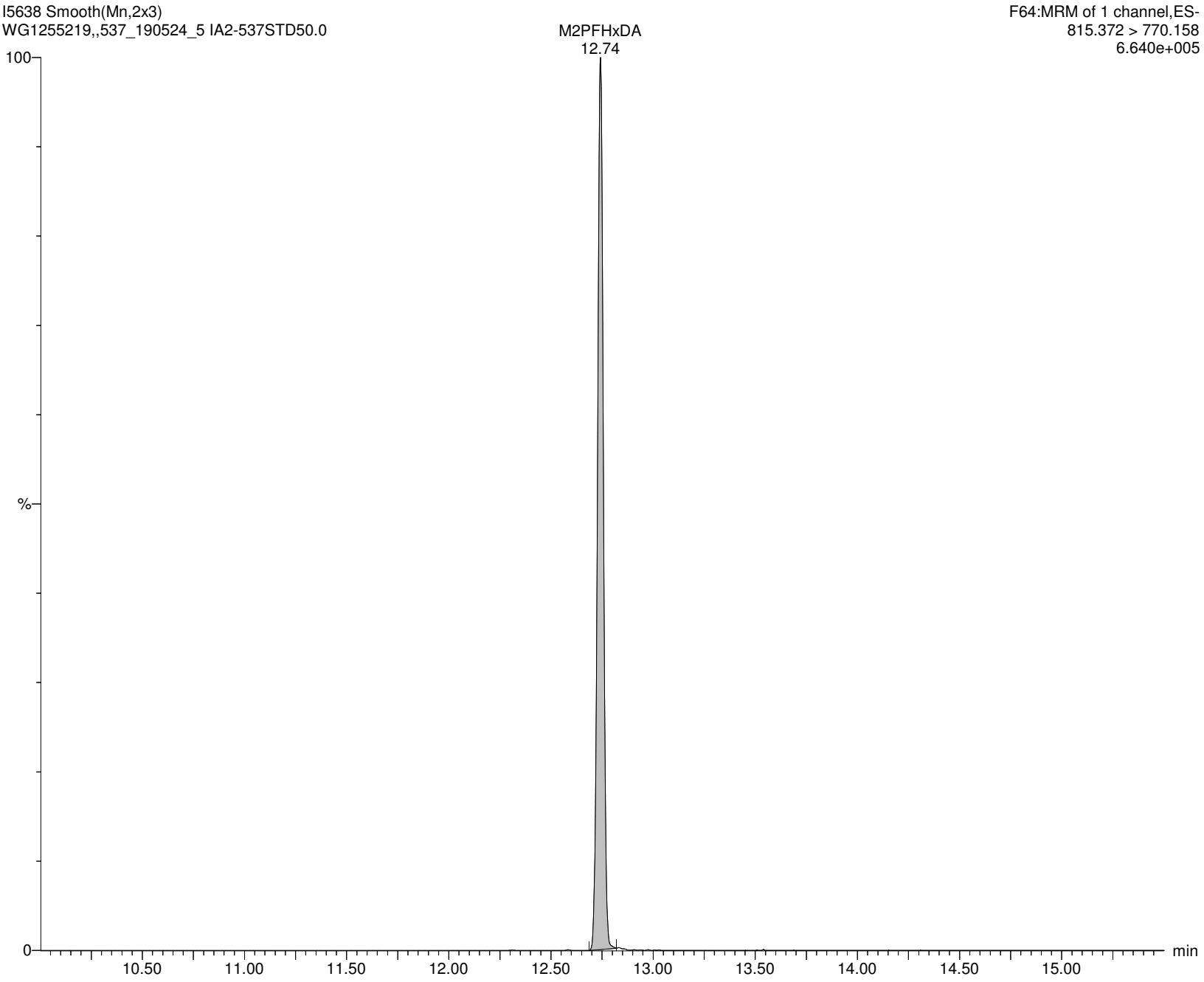


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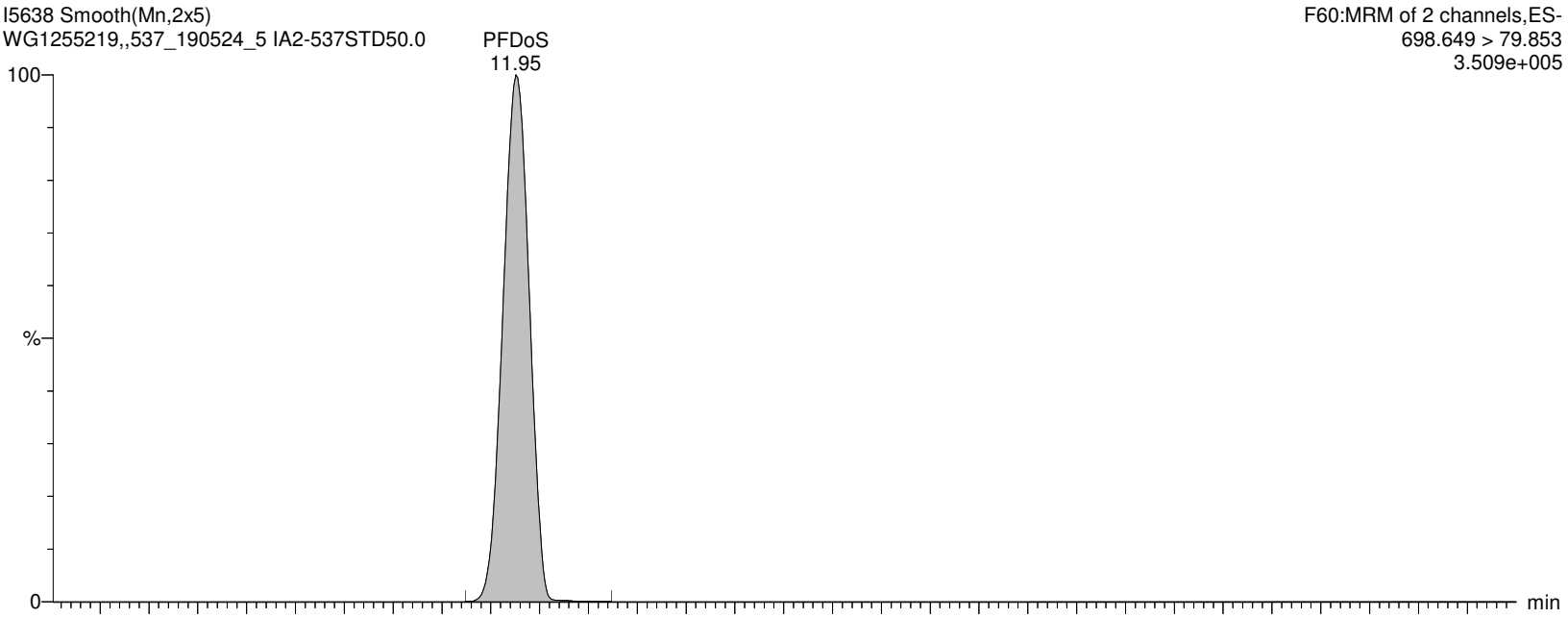


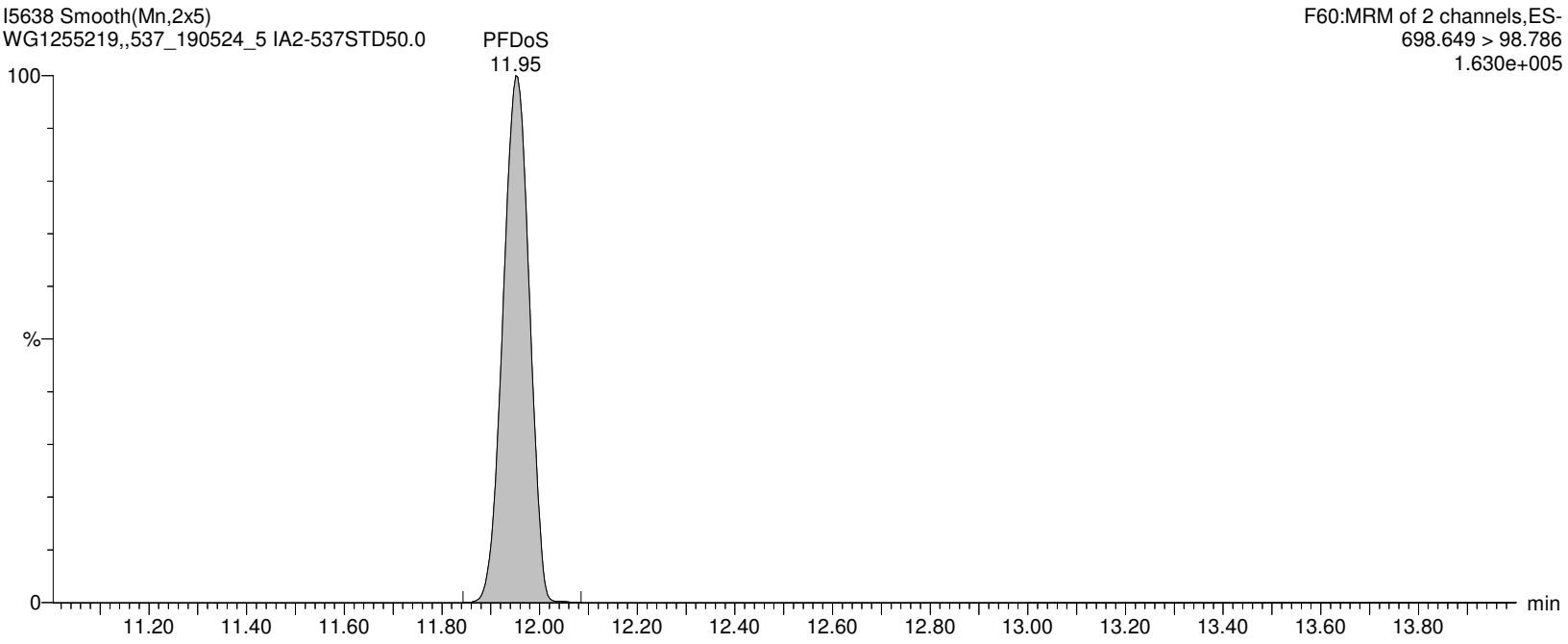
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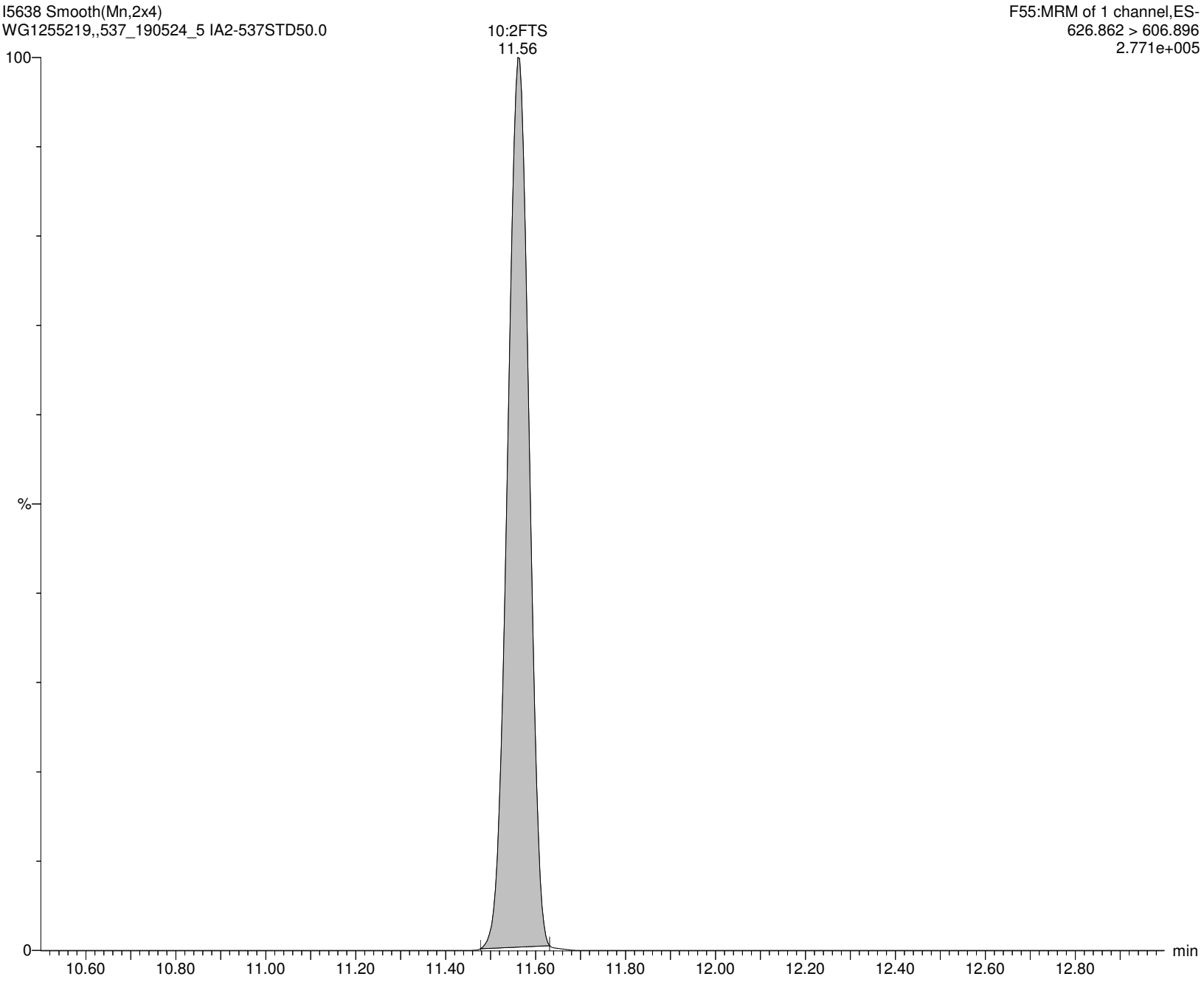


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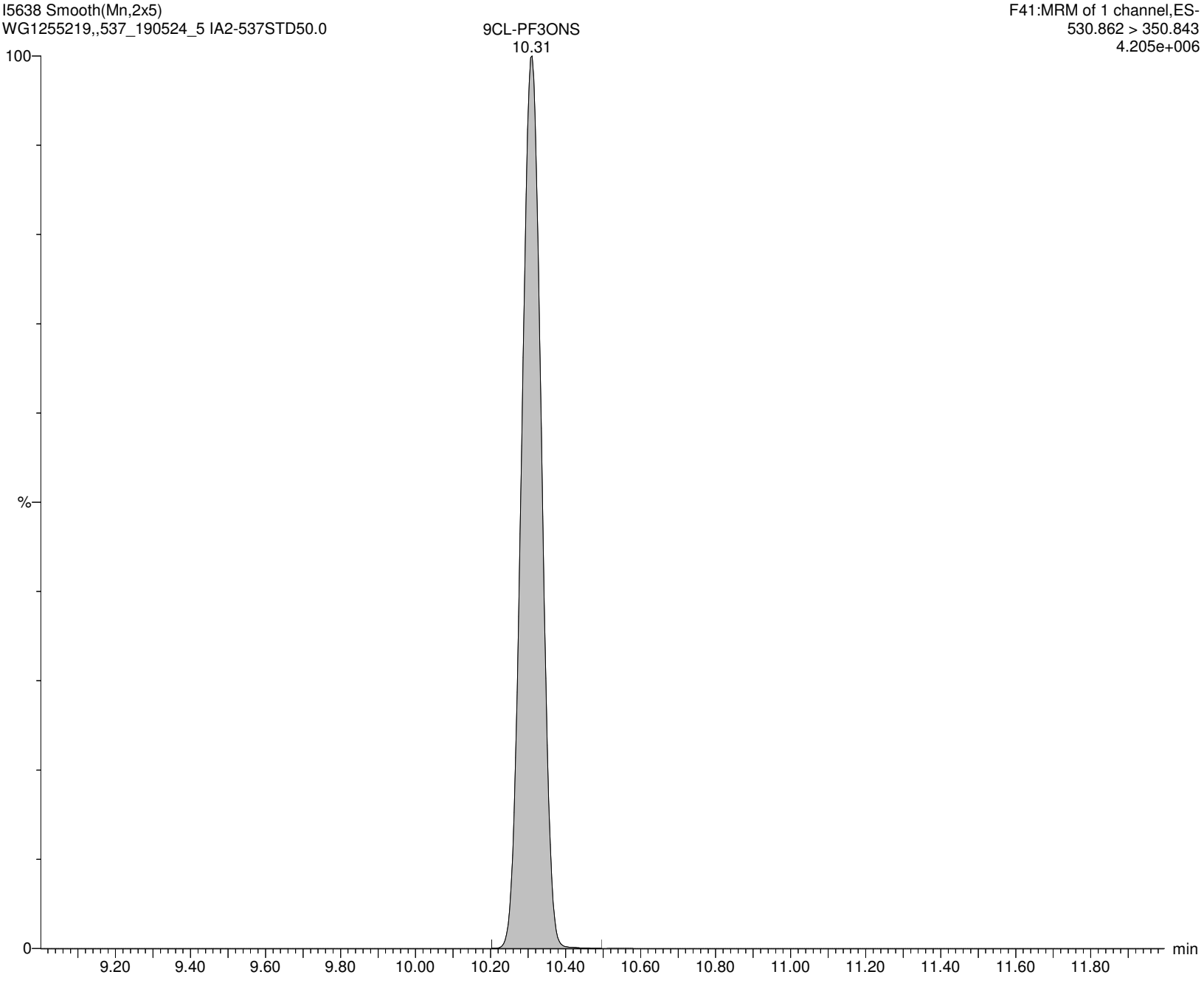


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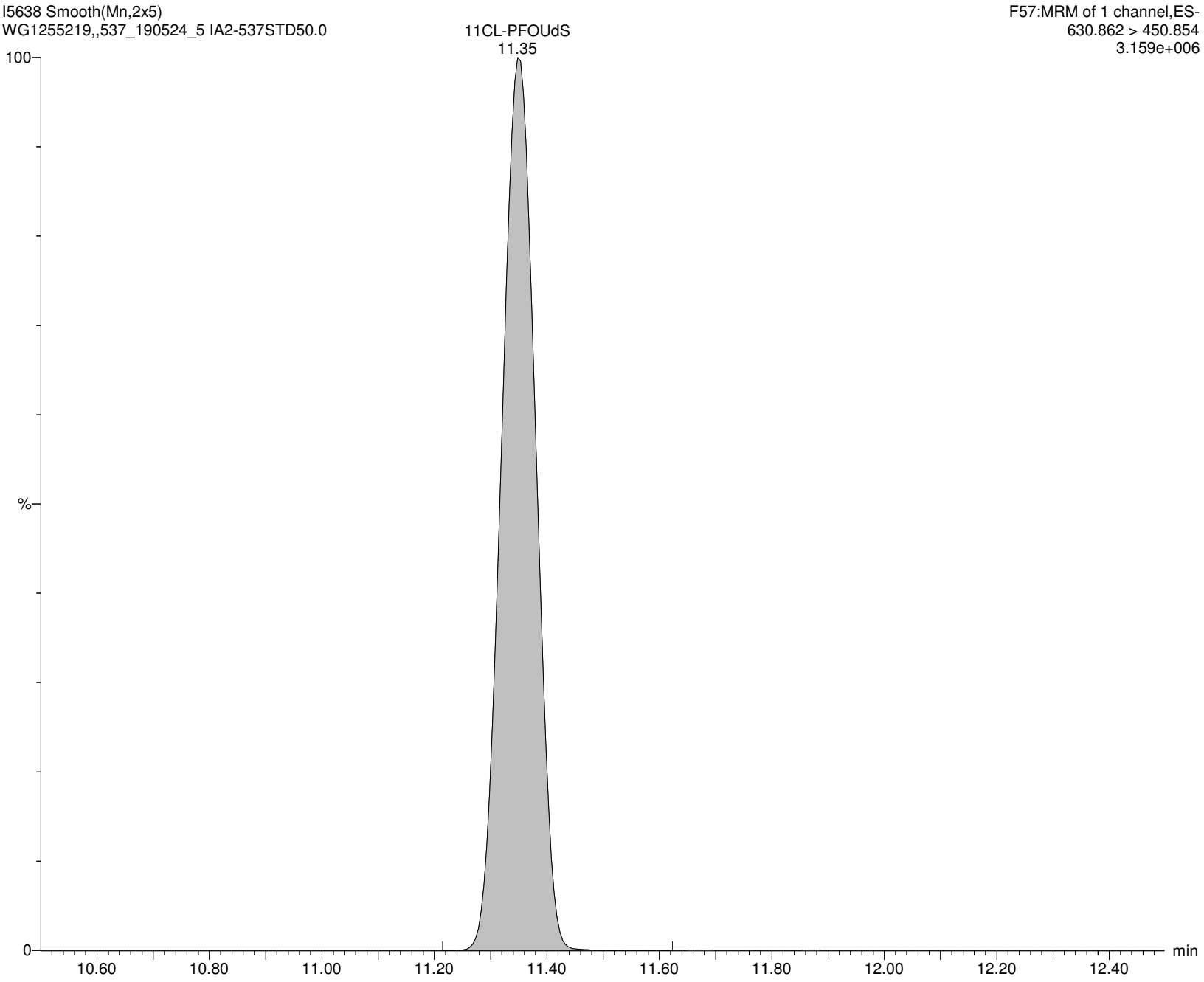


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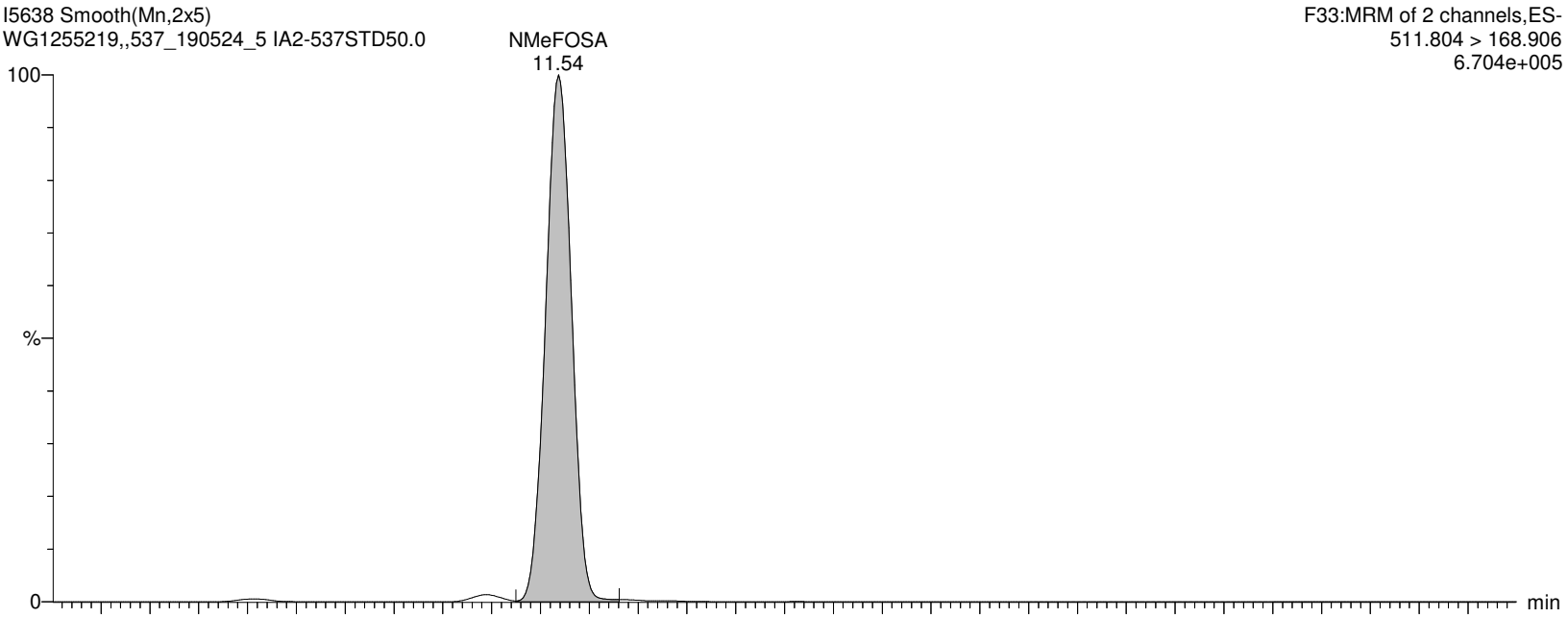


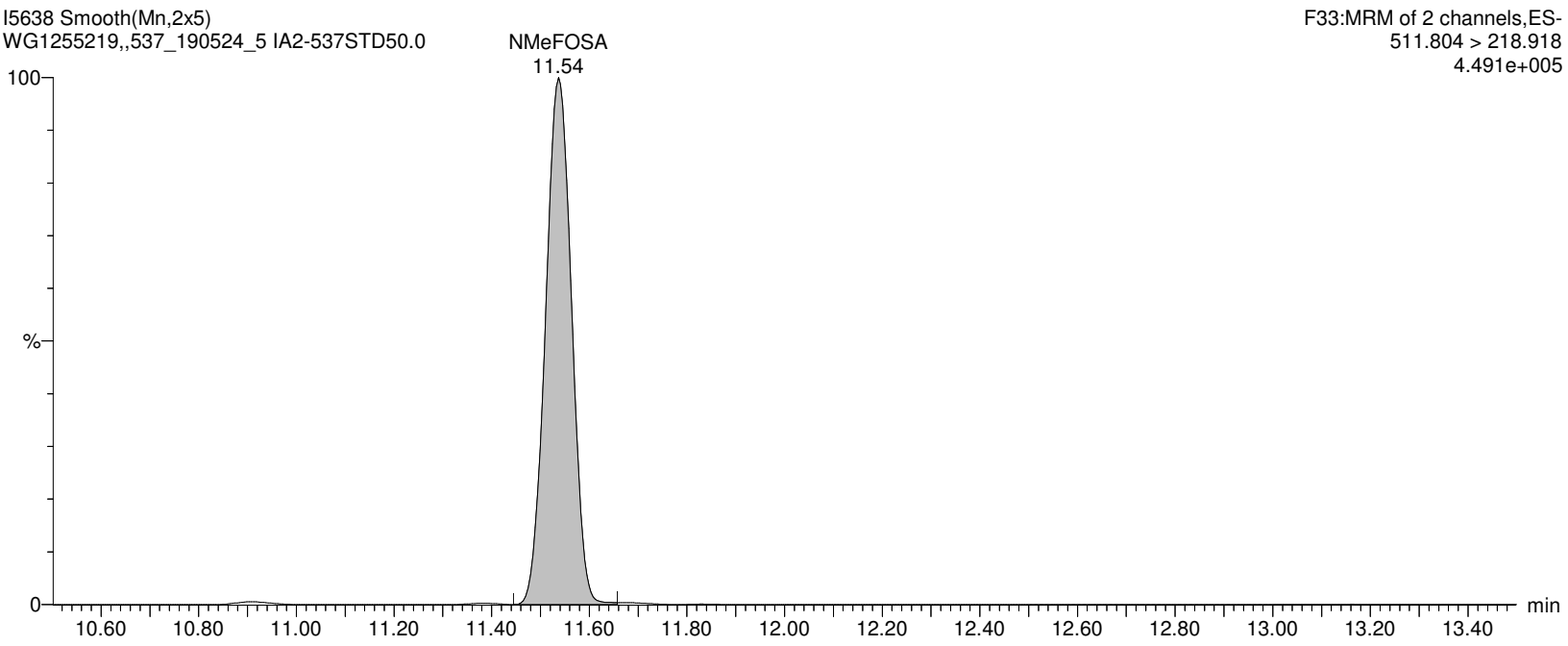
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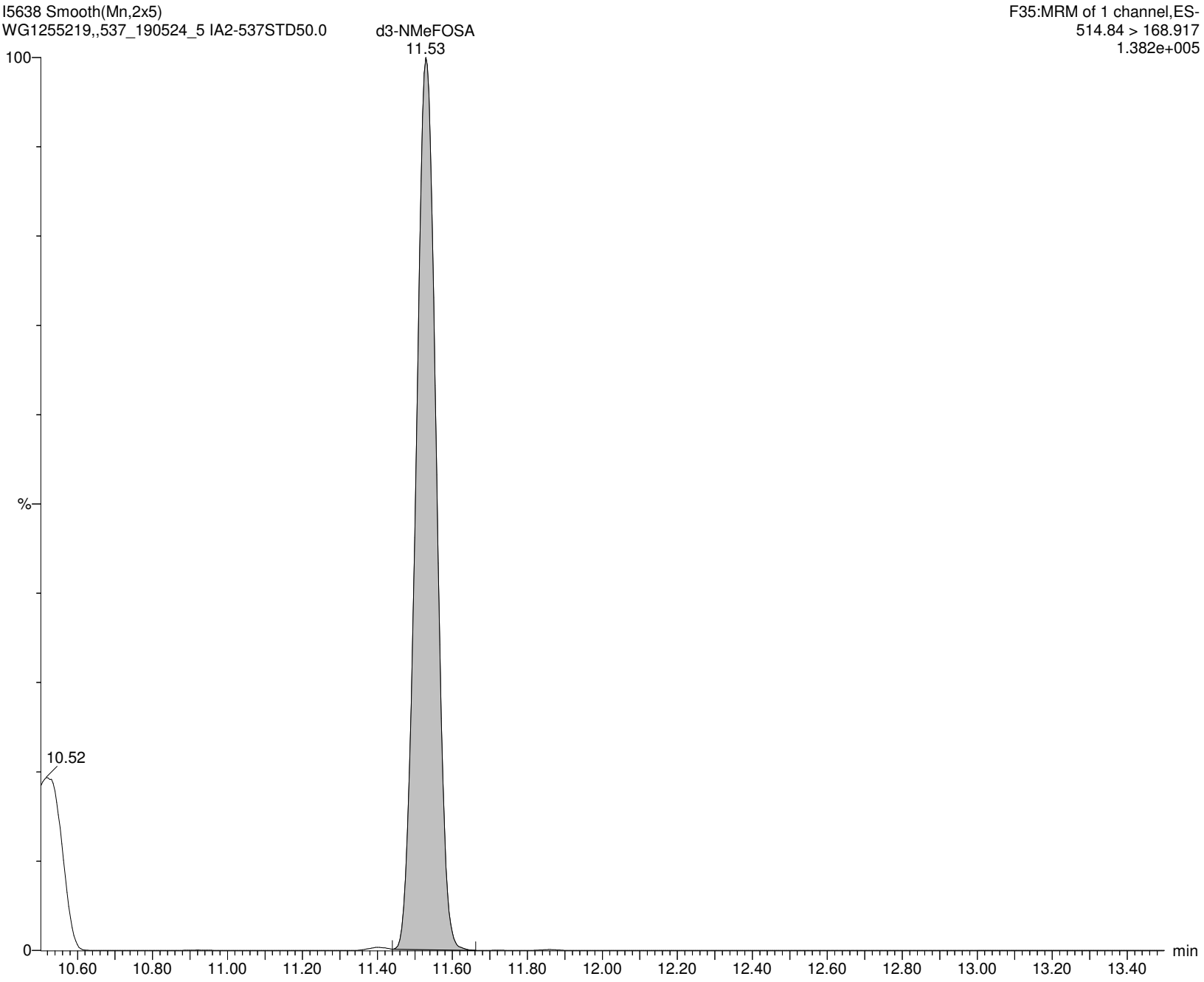


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:38 Eastern Daylight Time

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Date: 01-Jul-2019
Time: 19:03:37
Description: WG1255219,,537_190524_5
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Vial: 1:A,6
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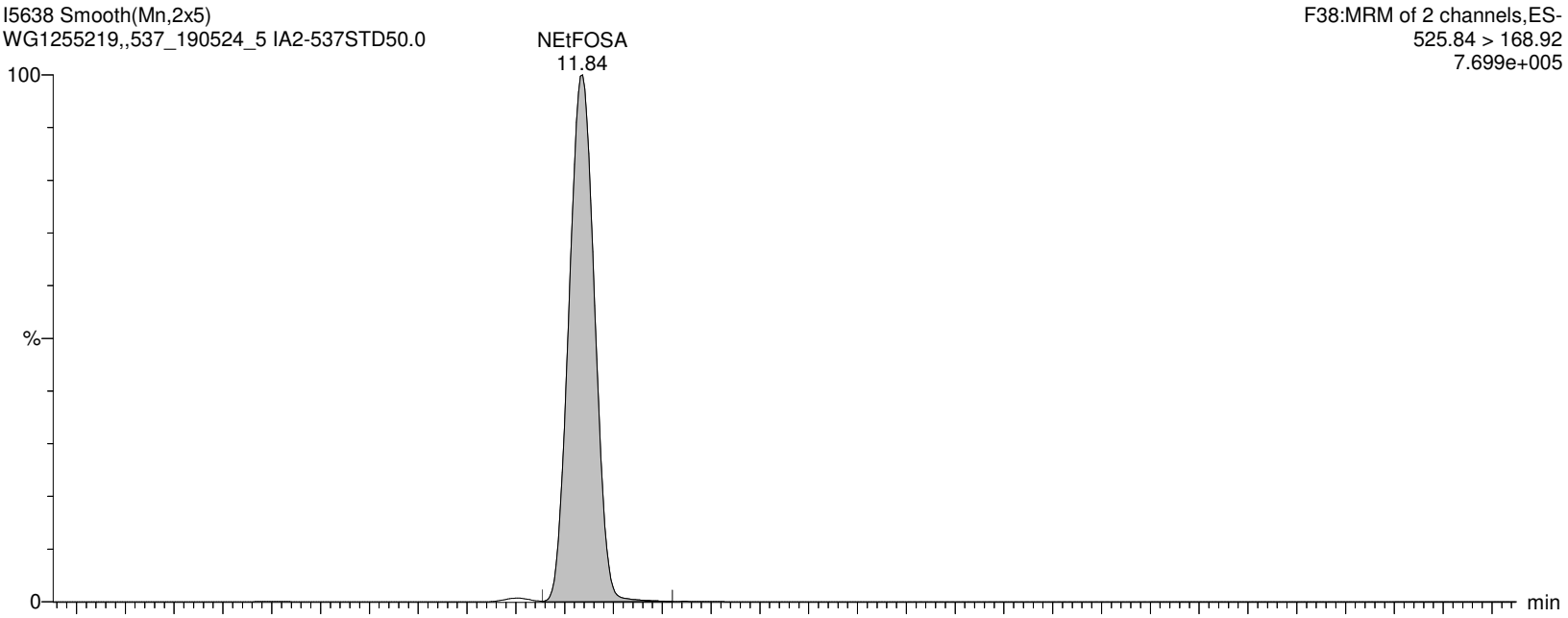


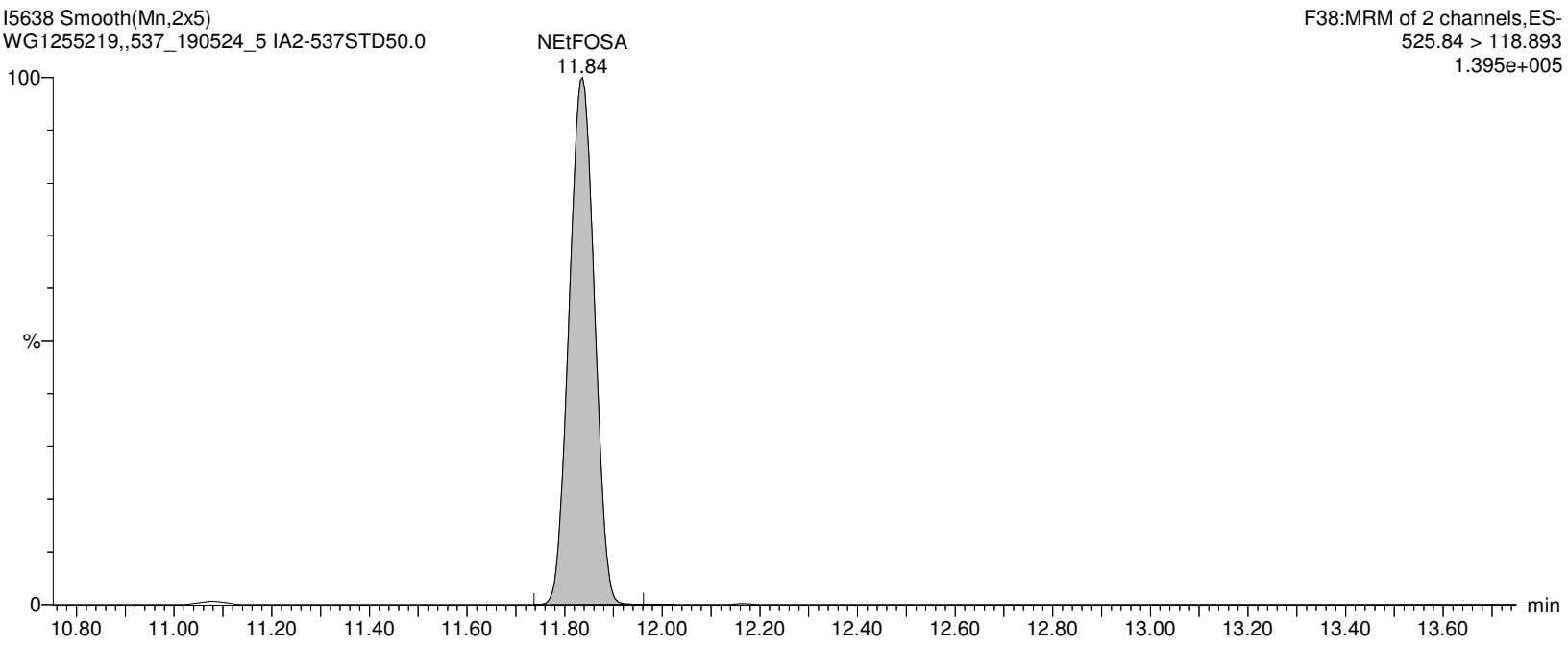
all concentration units in (ng/mL)

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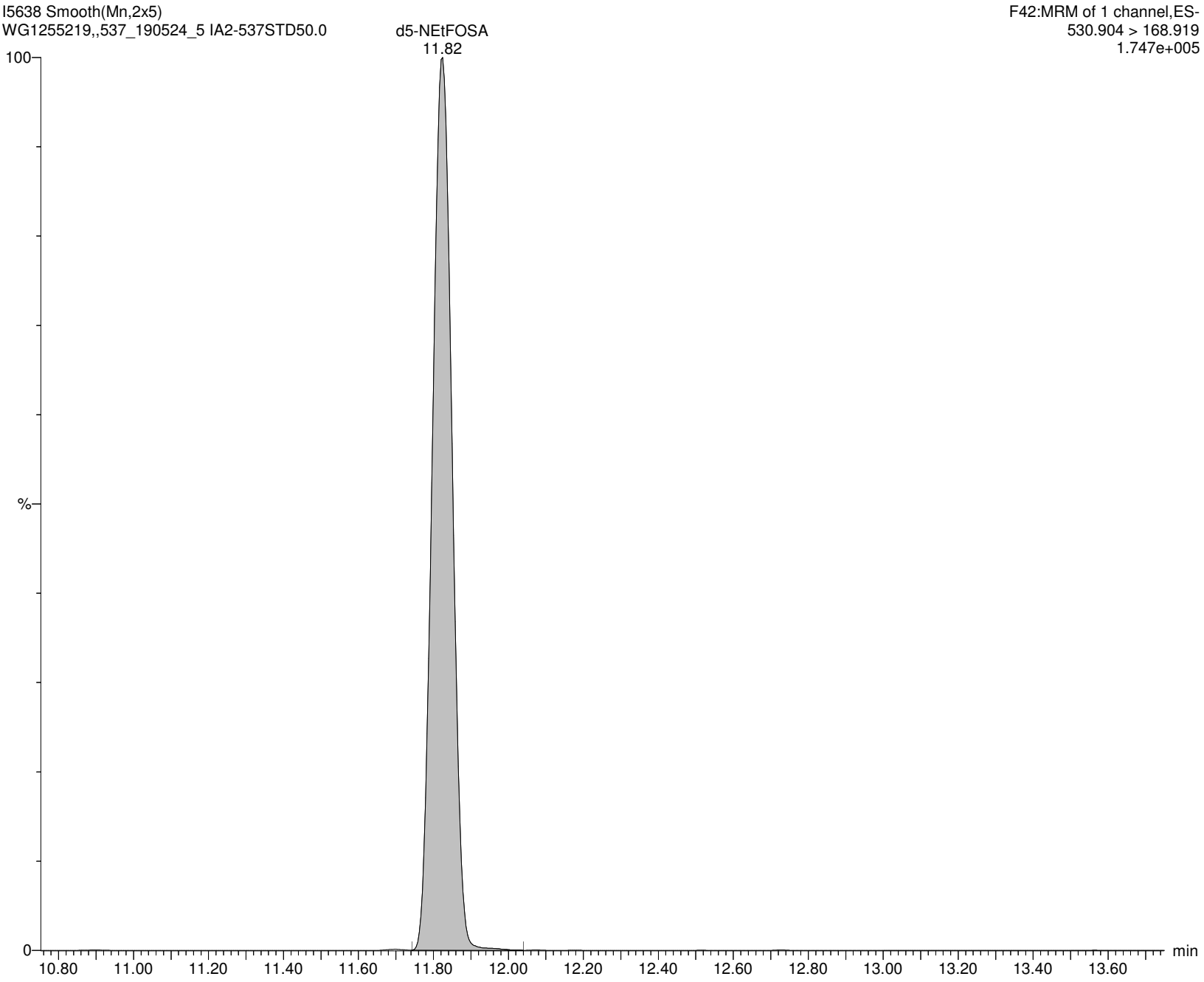


all concentration units in (ng/mL)

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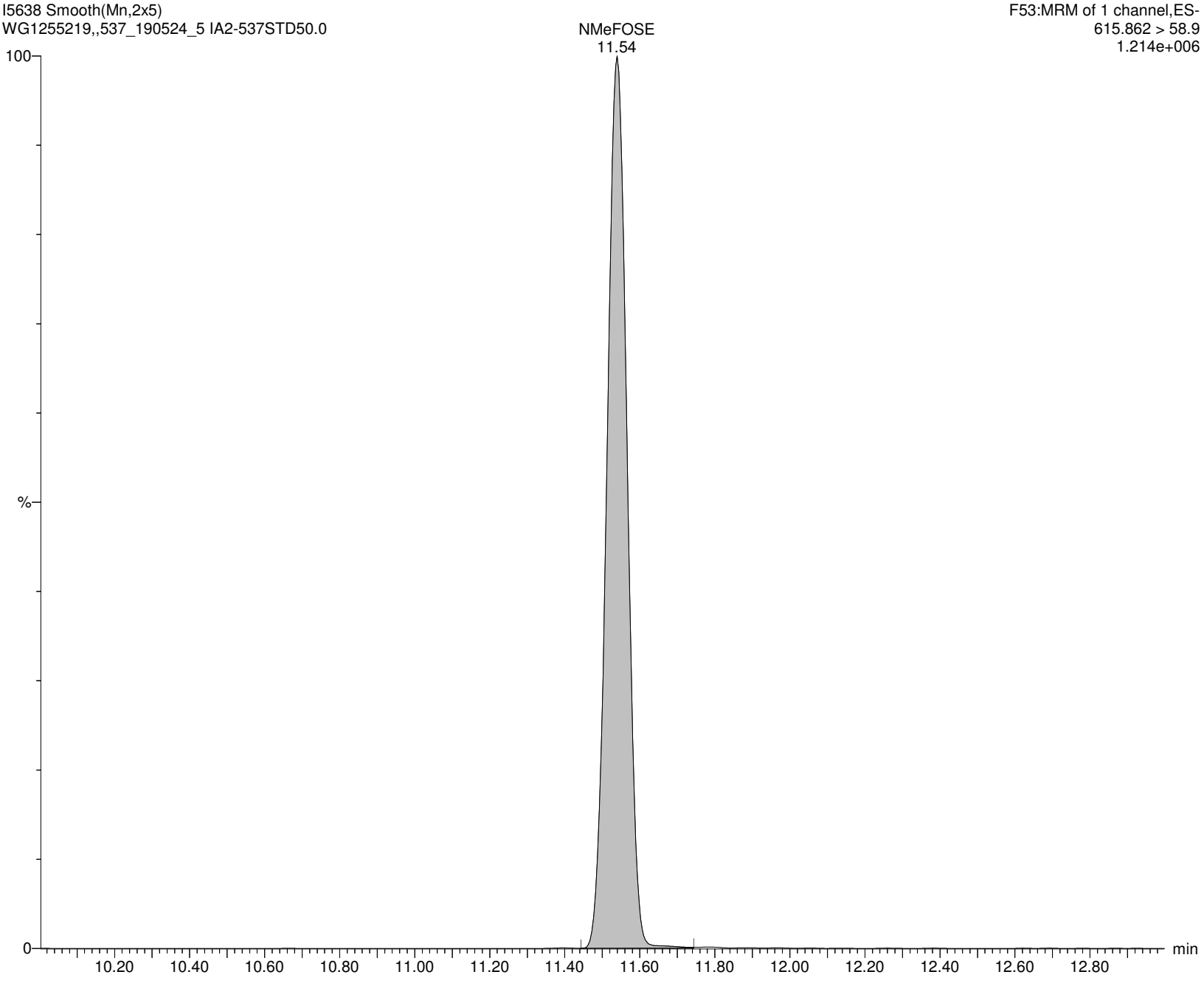


all concentration units in (ng/mL)

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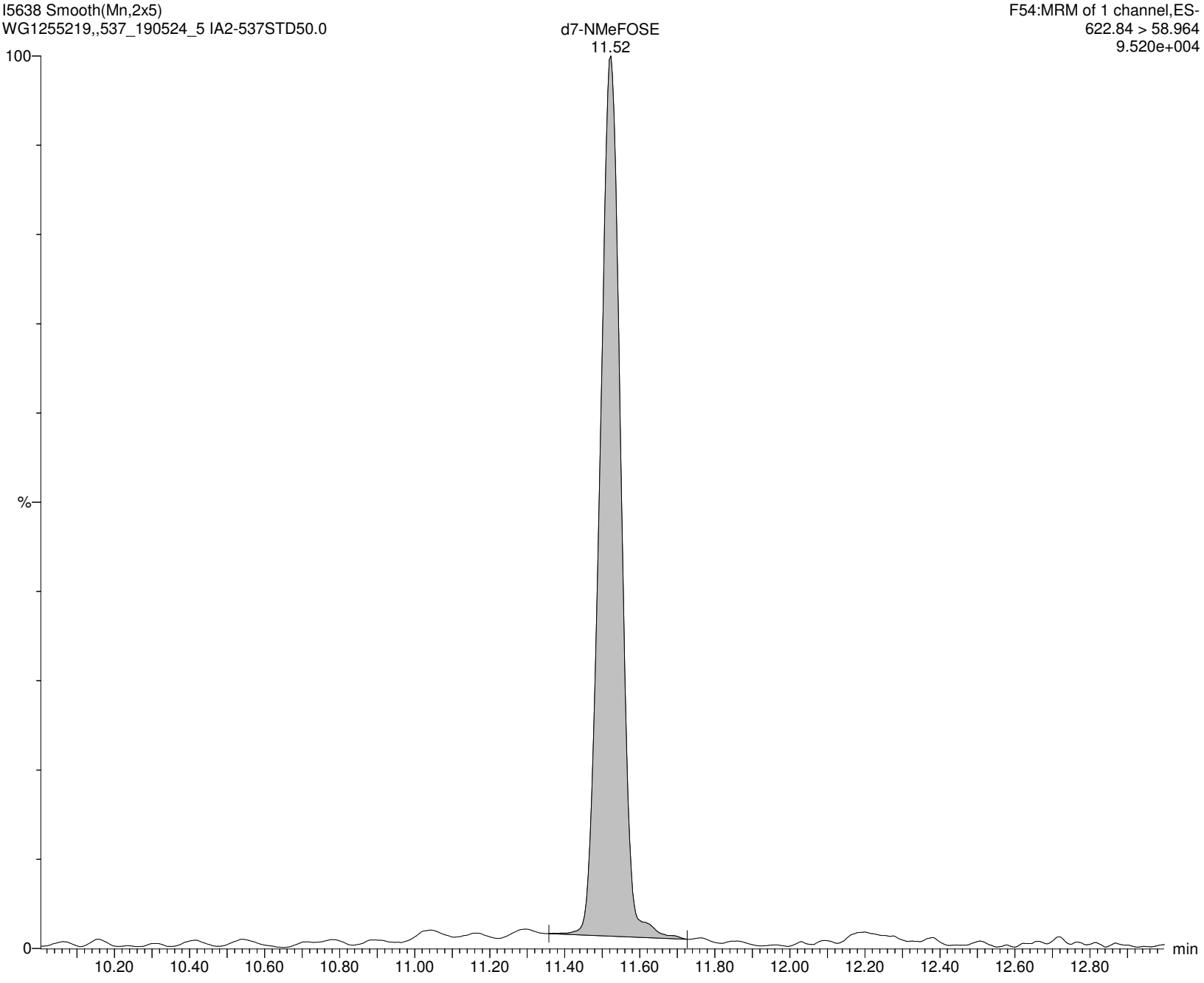


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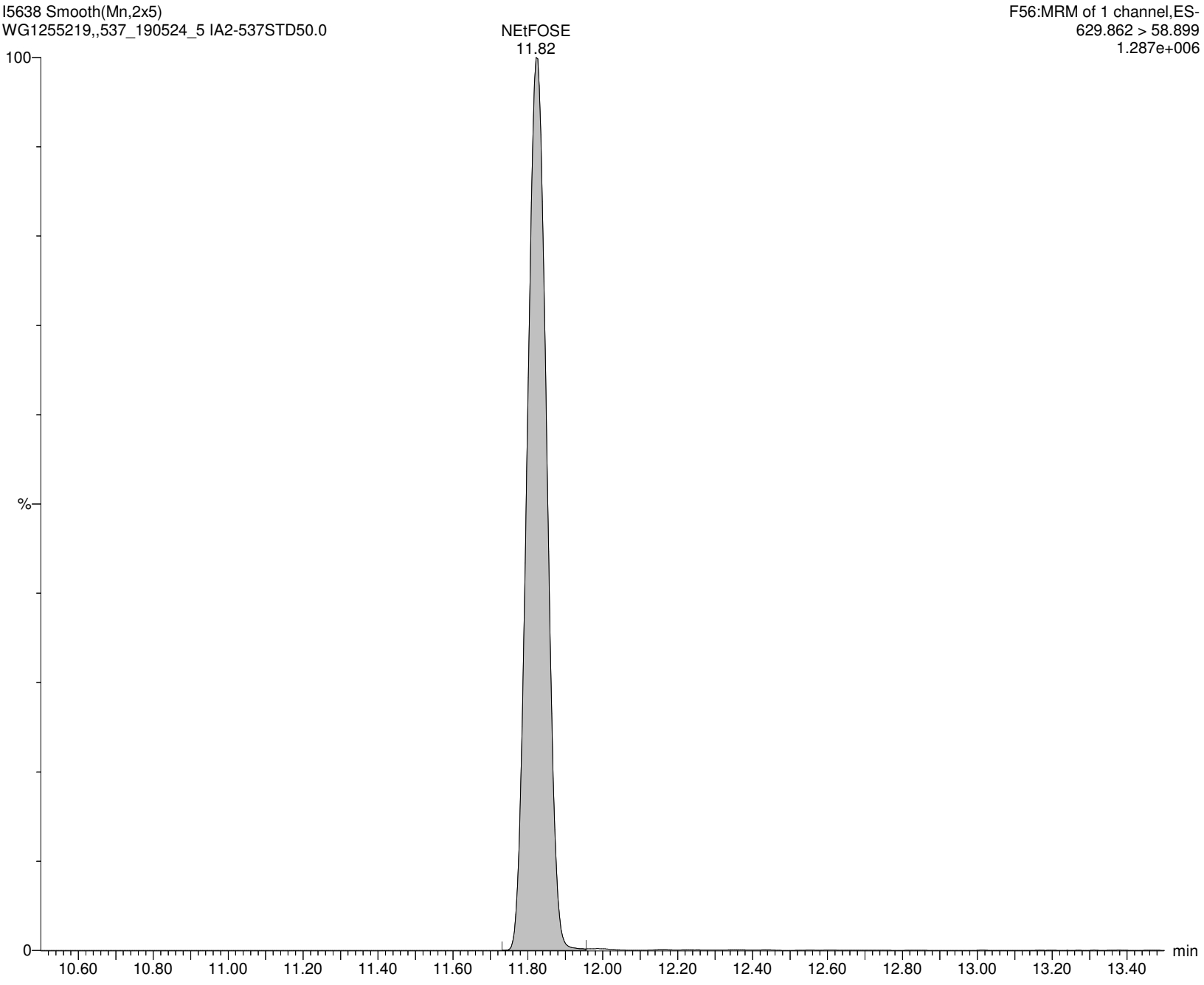


all concentration units in (ng/mL)

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NEtFOSE

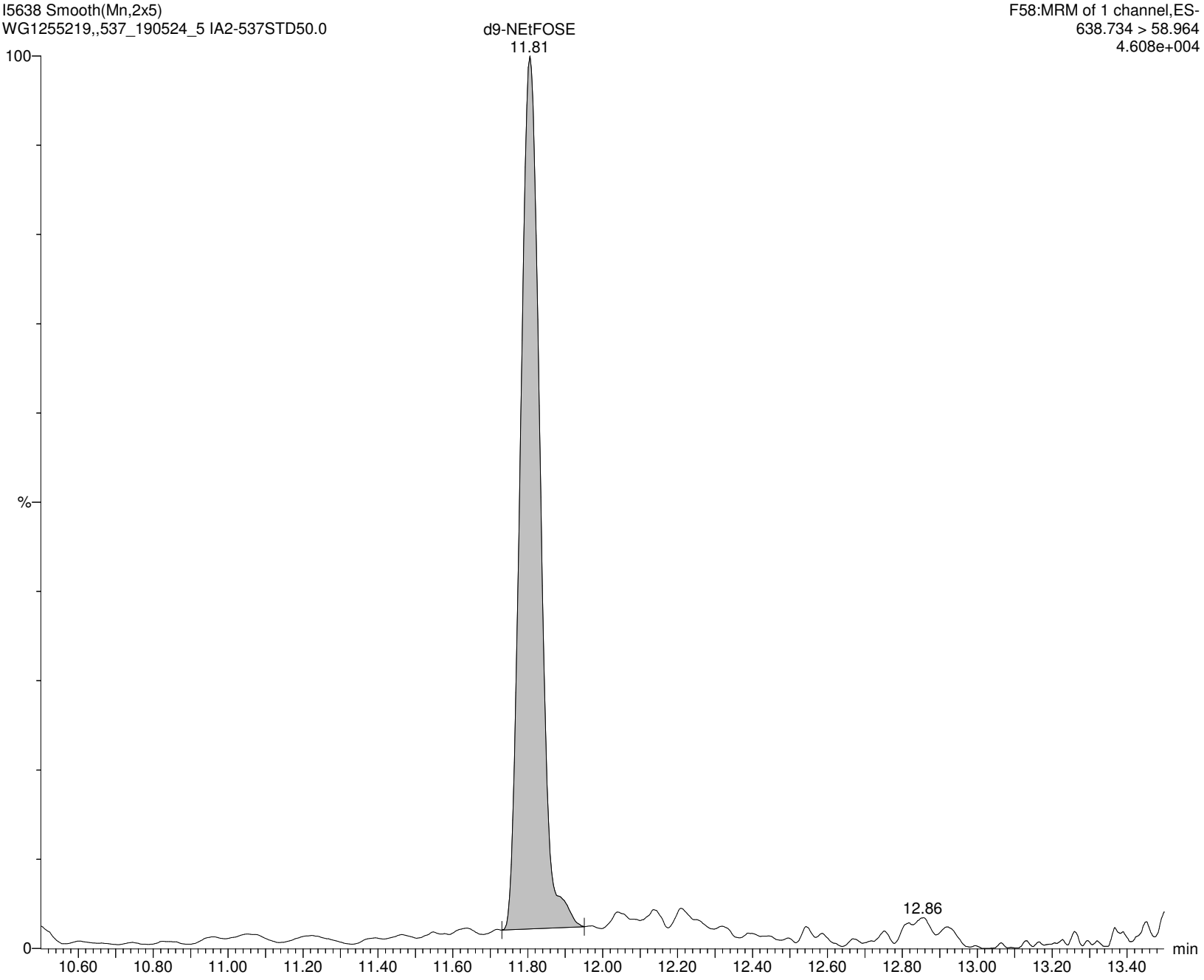


all concentration units in (ng/mL)

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d9-NEtFOSE



all concentration units in (ng/mL)

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Printed: Tuesday, July 02, 2019 11:08:39 Eastern Daylight Time

Method: C:\MassLynx\Data\2019\190701_537ISO.PRO\MethDB\537ISO_Q_190702_DOD.mdb 17 Jun 2019 11:52:40
Calibration: C:\MassLynx\Data\2019\190701_537ISO.PRO\CurveDB\190702_ISO_ICAL.cdb 02 Jul 2019 11:07:37

ID: IA2-537STD125
Name: I5639
Date: 01-Jul-2019
Time: 19:20:11
Description: WG1255219,,537_190524_6
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
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MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.10	212.926 > 169.111	449948		111.246		na	89.0
2	M3PFBA	INT STD	2.10	215.926 > 172.122	38894		10.056		na	100.6
3	MPFBA	INT STD	2.10	216.926 > 172.137	44450		10.191		na	101.9
4	PFPeA	2706-90-3	4.98	262.926 > 219.002	700137		111.199		na	89.0
5	M5PFPEA	INT STD	4.98	267.989 > 223.081	61357		9.939		na	99.4
6	PFBS	375-73-5	5.64	298.926 > 79.923	140453		97.192	1.89	YES	87.9
7	M3PFBS	INT STD	5.64	301.989 > 80.254	9712		10.589		na	105.9
8	4:2FTS	757124-72-4	6.83	326.926 > 306.957	61069		106.628	2.23	NO	91.2
9	M2-4:2FTS	INT STD	6.82	329.117 > 309.079	7657		13.931		na	139.3
10	PFHxA	307-24-4	6.90	312.989 > 269.028	828364		110.483	18.07	NO	88.4
11	M5PFHxA	INT STD	6.91	317.989 > 273.045	75847		10.231		na	102.3
12	PFPeS	2706-91-4	7.23	348.926 > 80.251	106929		99.492	1.89	NO	84.7
13	PFHpA	375-85-9	8.20	362.926 > 319.014	1069475		110.444	5.86	NO	88.4
14	M4PFHpA	INT STD	8.20	366.926 > 321.979	97121		10.282		na	102.8
15	br-PFHxS	355-46-4	8.12	398.926 > 80.295	16439	M5	19.941	2.44	NO	93.8
16	L-PFHxS	355-46-4	8.36	398.926 > 80.295	64867		79.422	1.19	NO	85.9
17	PFHxS	355-46-4		398.926 > 80.295	81306		99.363		na	
18	M3PFHxS	INT STD	8.36	401.926 > 80.317	6030		10.608		na	106.1
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1	9.15	412.989 > 368.9	979379		112.150	9.45	NO	89.7
21	M2PFOA	INT STD	9.15	415.032 > 369.968	87937		9.645		na	96.4
22	PFOA	335-67-1		412.989 > 368.9	979379		112.150		na	
23	M8PFOA	INT STD	9.15	420.989 > 375.979	87982		10.070		na	100.7
24	6:2FTS	27619-97-2	9.11	426.989 > 406.921	43304		113.811	9.17	NO	95.8
25	M2-6:2FTS	INT STD	9.10	428.989 > 408.917	6643		13.413		na	134.1
26	PFHpS	375-92-8	9.24	448.926 > 80.257	59042		109.657	0.88	NO	92.3
27	PFNA	375-95-1	9.90	462.989 > 418.931	833278		110.929	4.23	NO	88.7
28	M9PFNA	INT STD	9.90	472.053 > 426.947	82798		10.233		na	102.3
29	br-PFOS	1763-23-1	9.77	498.989 > 80.294	25193	M5	24.121	4.26	NO	96.5
30	L-PFOS	1763-23-1	9.96	498.989 > 80.294	65066		84.111	1.47	NO	92.2
31	PFOS	1763-23-1		498.989 > 80.294	90259		108.232		na	
32	M4PFOS	INT STD	9.96	503.032 > 80.306	6891		9.266		na	92.7
33	M8PFOS	INT STD	9.96	507.053 > 80.294	7505		10.113		na	101.1
34	PFDA	335-76-2	10.53	513.053 > 468.906	762359		110.158	6.08	NO	88.1
35	M2PFDA	INT STD	10.53	515.053 > 469.934	66549		9.304		na	93.0
36	M6PFDA	INT STD	10.53	519.053 > 473.931	76543		10.287		na	102.9
37	8:2FTS	39108-34-4	10.52	526.926 > 506.818	29523		123.125		na	102.6
38	M2-8:2FTS	INT STD	10.52	529.053 > 508.945	4183		15.391		na	153.9
39	PFNS	68259-12-1	10.56	548.989 > 80.249	84682		113.604	1.32	NO	94.7

all concentration units in (ng/mL)

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ID: IA2-537STD125
Name: I5639
Date: 01-Jul-2019
Time: 19:20:11
Description: WG1255219,,537_190524_6
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
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MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.90	573.096 > 418.987	8190		11.091		na	110.9
41	NMeFOSAA	2355-31-9	10.91	570.053 > 418.917	88525		106.419	2.60	NO	85.1
42	PFUnA	2058-94-8	11.07	562.989 > 518.903	749201		112.765	7.83	NO	90.2
43	M7-PFUDA	INT STD	11.07	570.053 > 524.923	64699		9.833		na	98.3
44	PFDS	335-77-3	11.09	598.926 > 80.314	63741		115.283	1.02	YES	95.6
45	FOSA	754-91-6	10.93	497.989 > 78.245	292405		111.293	120.55	NO	89.0
46	M8FOSA	INT STD	10.92	506.053 > 78.286	22877		10.330		na	103.3
47	d5-NEtFOSAA	INT STD	11.19	589.117 > 418.929	7386		11.039		na	110.4
48	NEtFOSAA	2991-50-6	11.20	583.989 > 418.927	82534		110.506	2.77	NO	88.4
49	PFDoA	307-55-1	11.55	612.989 > 568.967	813348		113.963	14.40	NO	91.2
50	MPFDOA	INT STD	11.55	614.989 > 569.92	74371		10.208		na	102.1
51	PFTrDA	72629-94-8	11.96	663.053 > 618.969	786035		117.285	11.31	NO	93.8
52	PFTA	376-06-7	12.33	713.053 > 668.976	629957		110.617	8.86	NO	88.5
53	M2PFTEDA	INT STD	12.33	715.053 > 669.945	65481		10.638		na	106.4
54	M3HFPO-DA	INT STD	7.33	331.989 > 286.995	59275		260.745		na	130.4
55	HFPO-DA	13252-13-6	7.32	284.819 > 169.094	196791		2519.801	2.62	YES	100.8
56	ADONA	958445-44-8	8.38	376.926 > 251.005	1400262		110.776		na	93.7
57	PFHxDA		12.74	813.053 > 769.005	608761		122.388		na	97.9
58	PFODA		12.96	912.989 > 869.032	514803		124.515		na	99.6
59	M2PFHxDA		12.74	815.372 > 770.158	18901		10.079		na	100.8
60	PFDoS		11.96	698.649 > 79.853	44841		123.046	2.10	YES	98.4
61	10:2FTS		11.56	626.862 > 606.896	33794		120.342		na	99.9
62	9CL-PF3ONS		10.31	530.862 > 350.843	569538		112.145		na	96.3
63	11CL-PFOUdS		11.35	630.862 > 450.854	502568		112.346		na	95.4
64	NMeFOSA		11.54	511.804 > 168.906	93167		120.730	1.52	NO	96.6
65	d3-NMeFOSA		11.53	514.84 > 168.917	8253		10.758		na	107.6
66	NEtFOSA		11.84	525.84 > 168.92	109730		120.859	5.65	NO	96.7
67	d5-NEtFOSA		11.82	530.904 > 168.919	10264		10.332		na	103.3
68	NMeFOSE		11.54	615.862 > 58.9	162122		119.448		na	95.6
69	d7-NMeFOSE		11.52	622.84 > 58.964	5365		10.000		na	100.0
70	NEtFOSE		11.83	629.862 > 58.899	176503		124.265		na	99.4
71	d9-NEtFOSE		11.81	638.734 > 58.964	2733		10.326		na	103.3

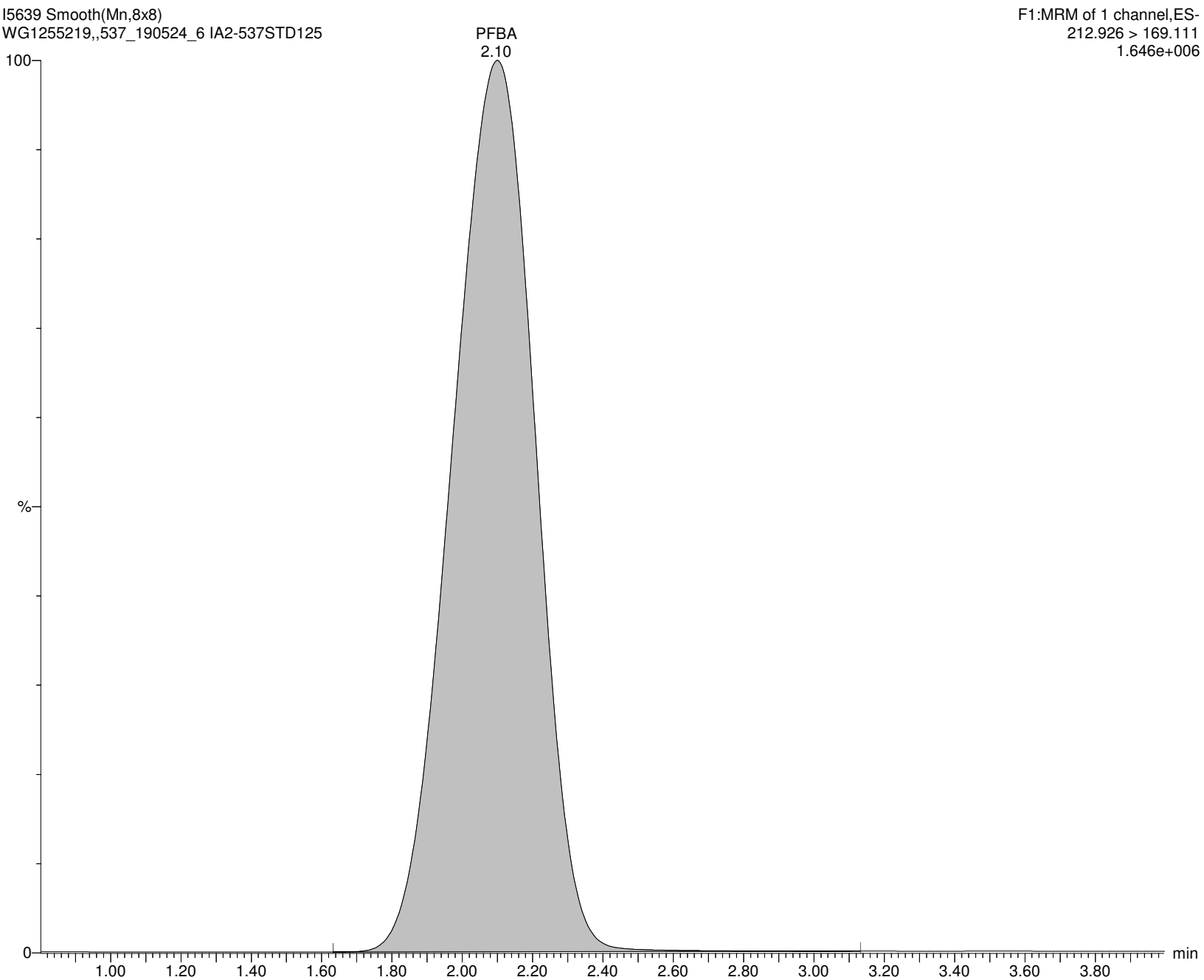
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MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

PFBA

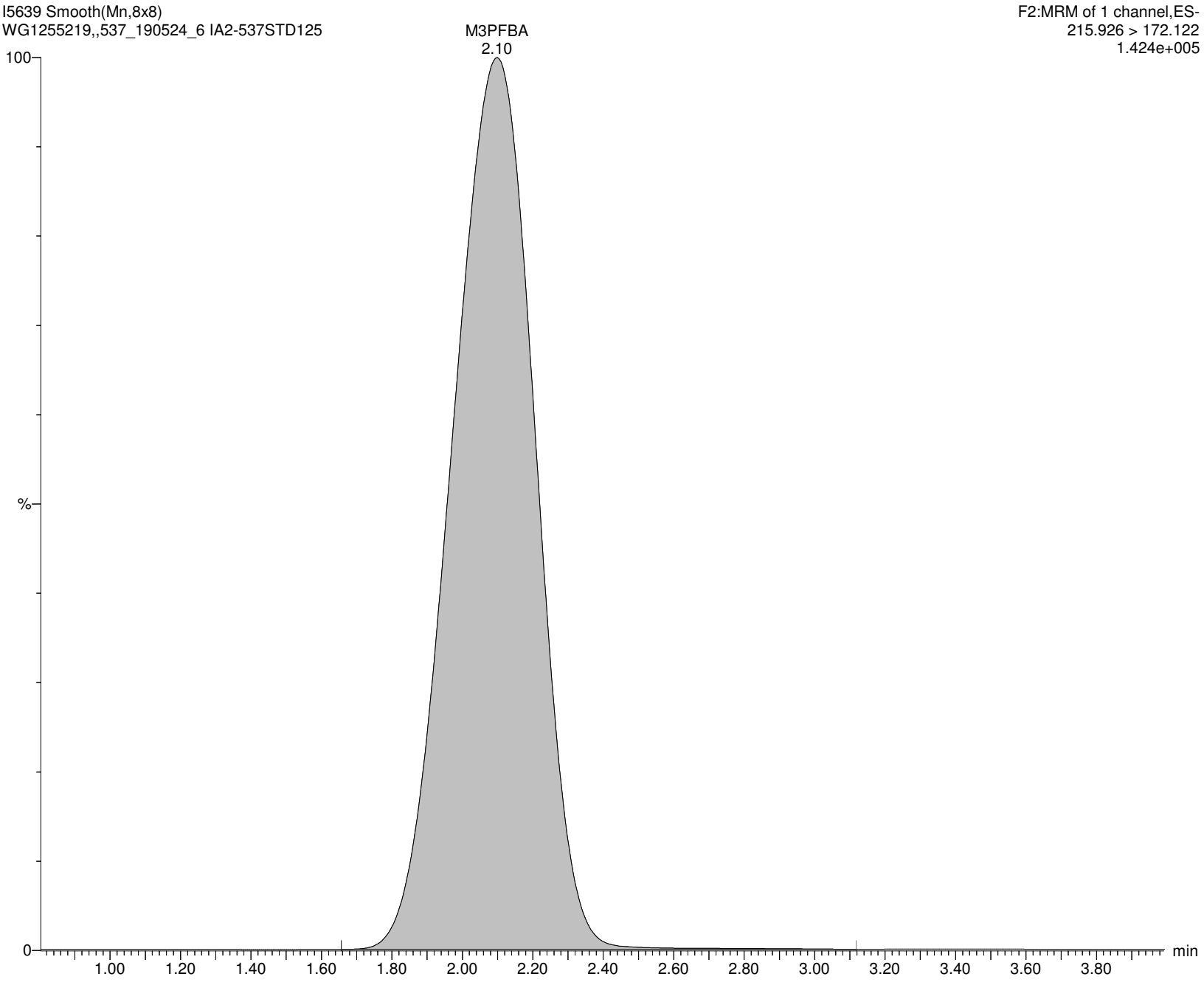


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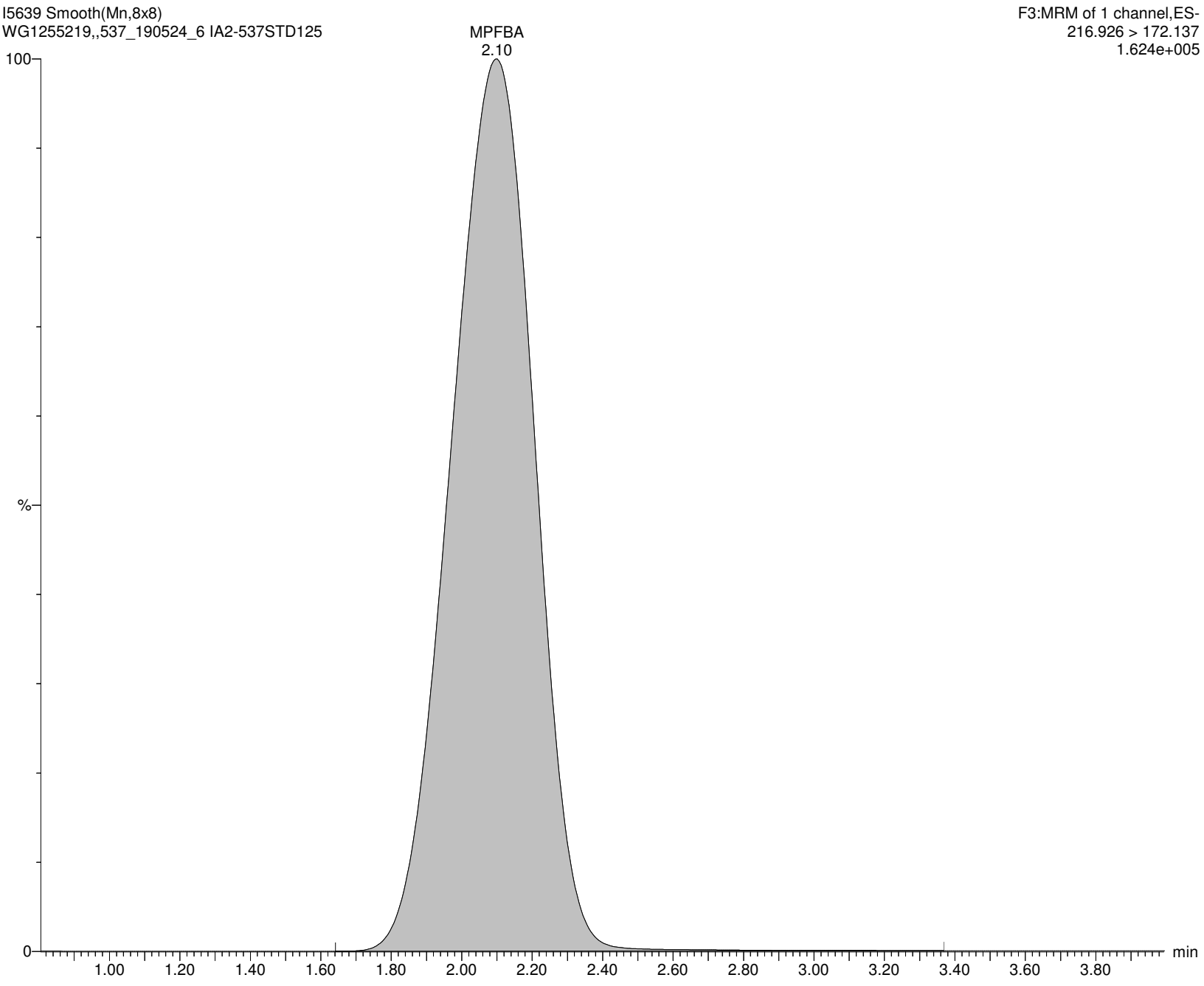


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:39 Eastern Daylight Time

Name: I5639
ID: IA2-537STD125
Date: 01-Jul-2019
Time: 19:20:11
Description: WG1255219,,537_190524_6
User: LCMS02:JW
Vial: 1:A,7
Instrument: XEVO-TQSmicro#QEB0050
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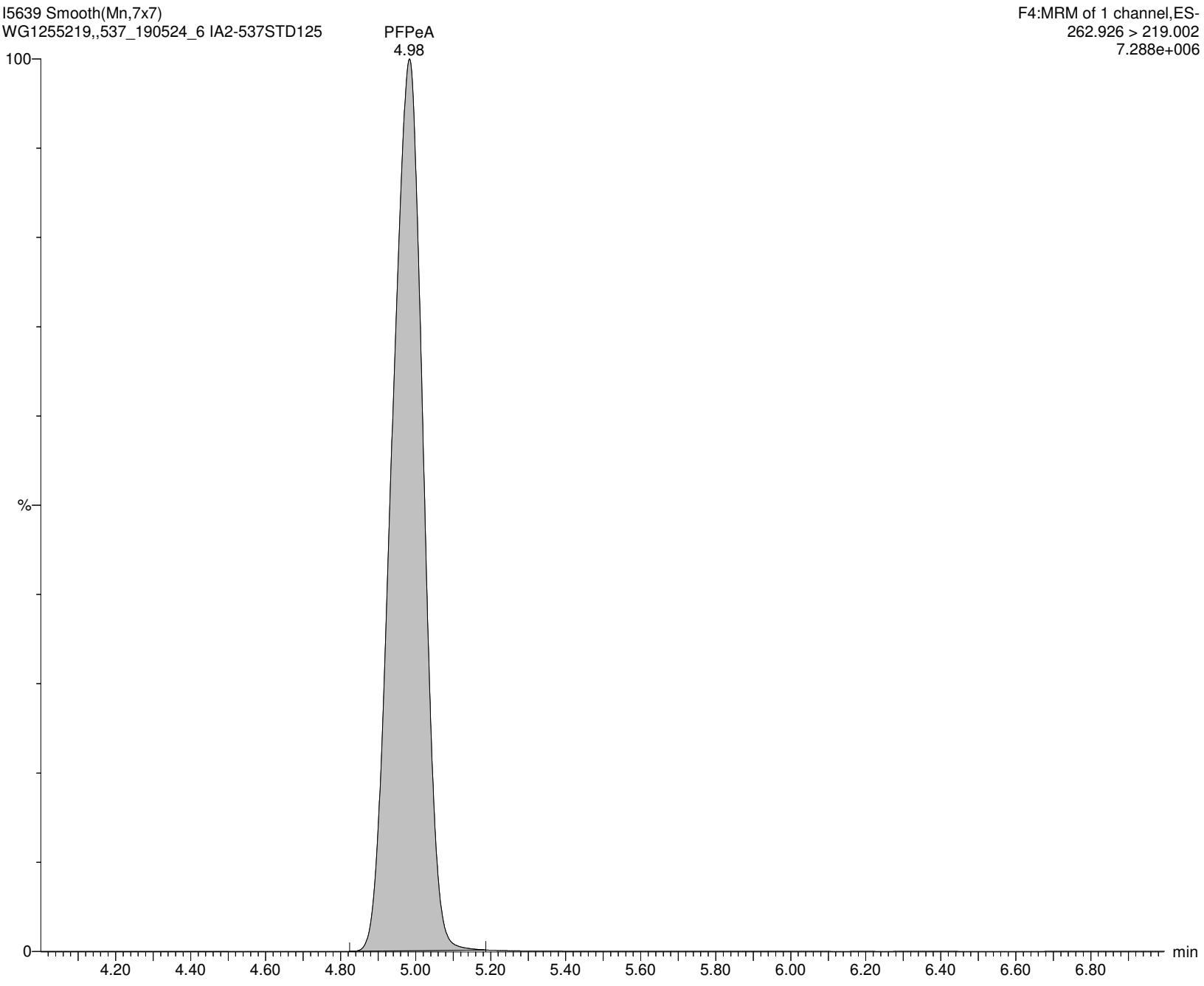


all concentration units in (ng/mL)

Alpha Analytical Inc.
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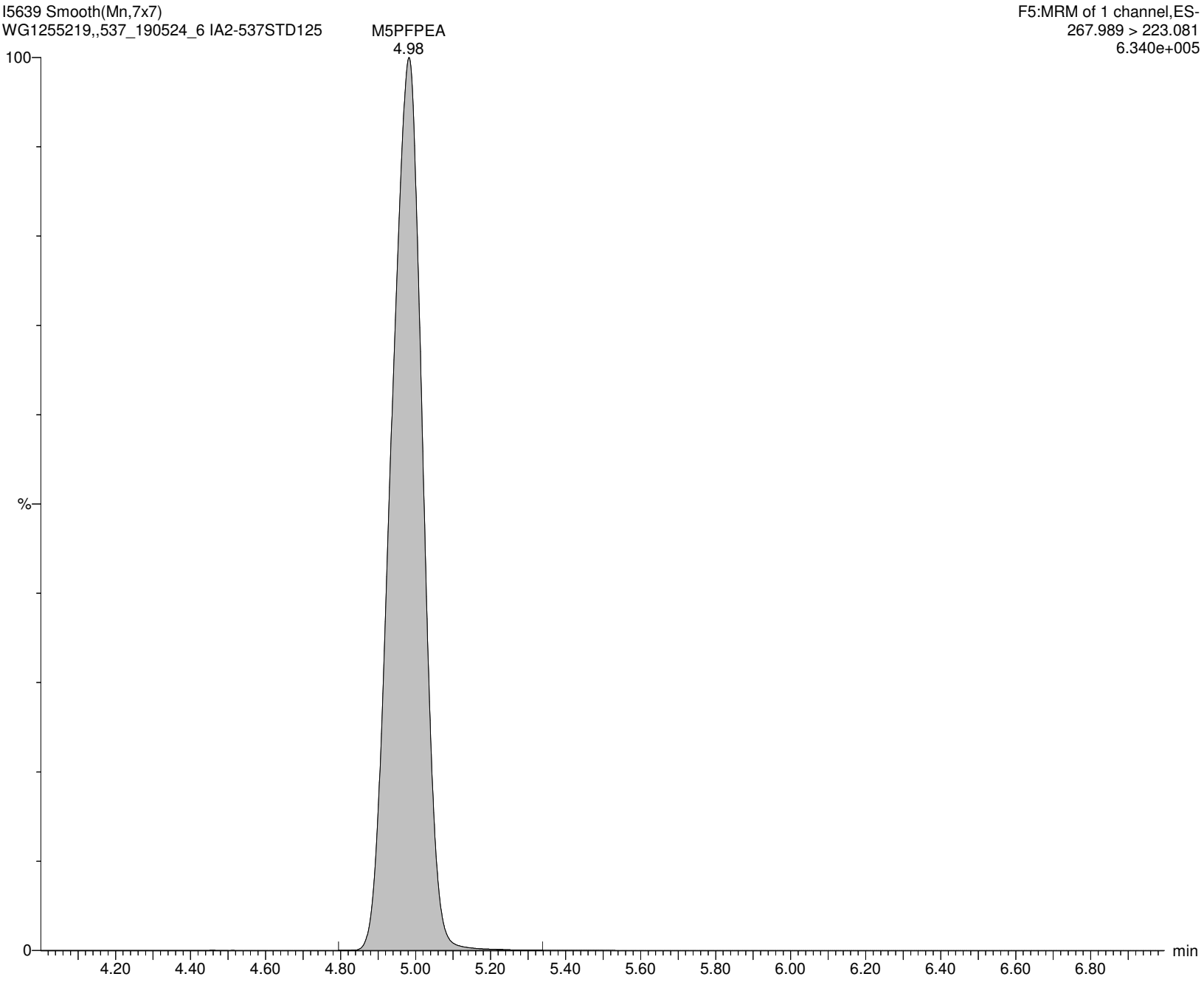


all concentration units in (ng/mL)

Alpha Analytical Inc.
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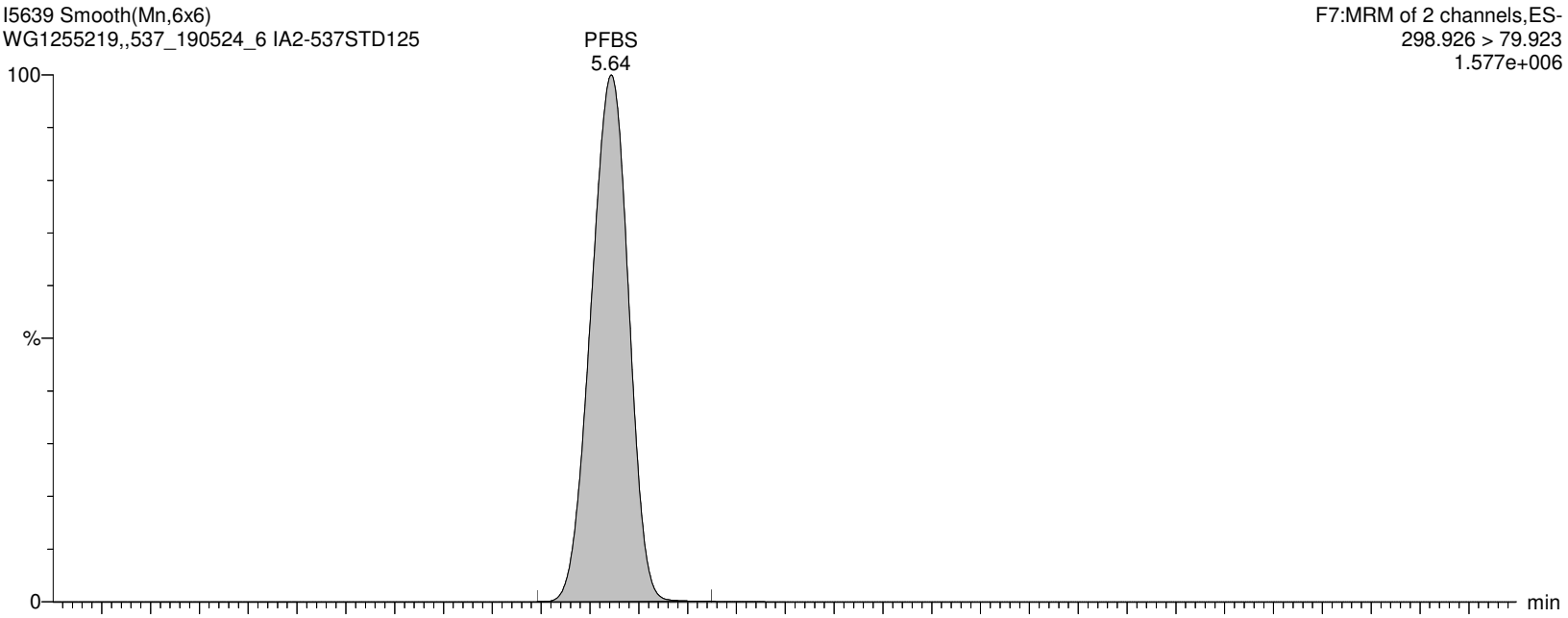


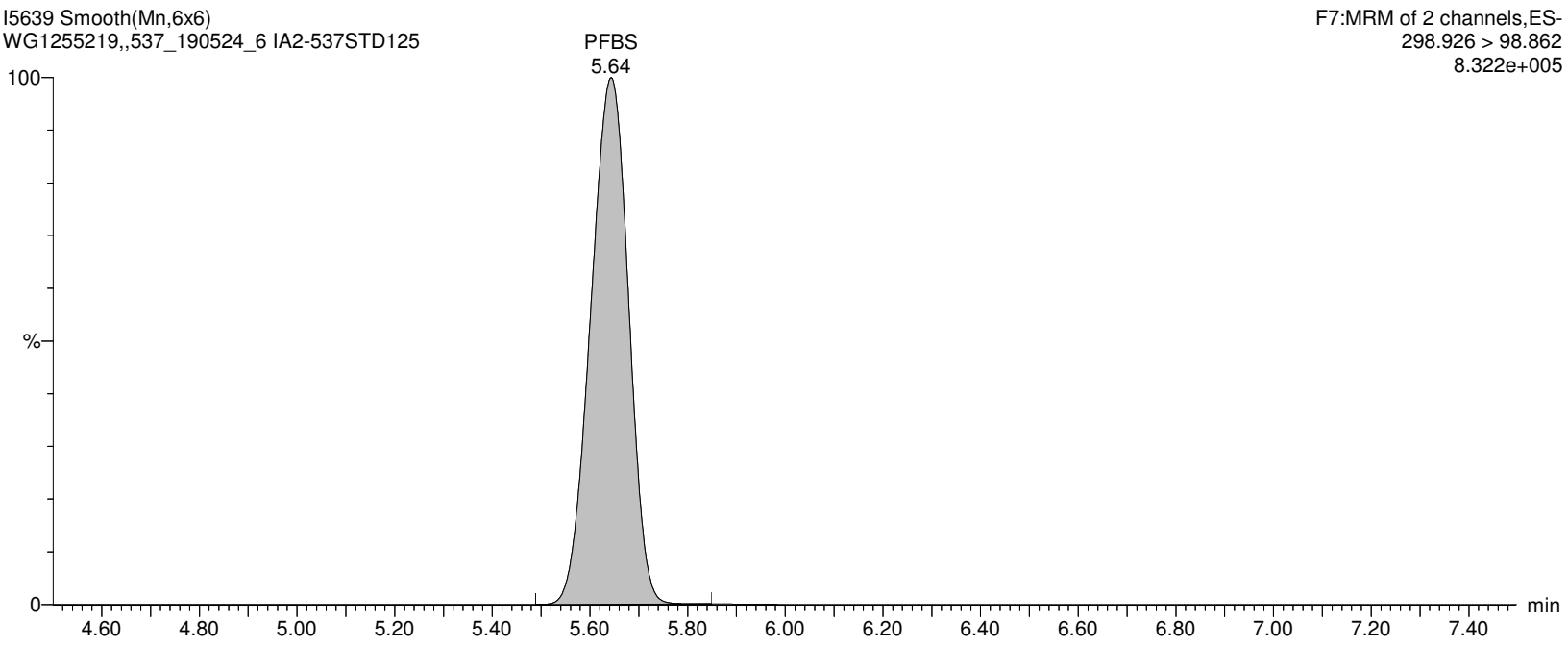
all concentration units in (ng/mL)

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PFBS



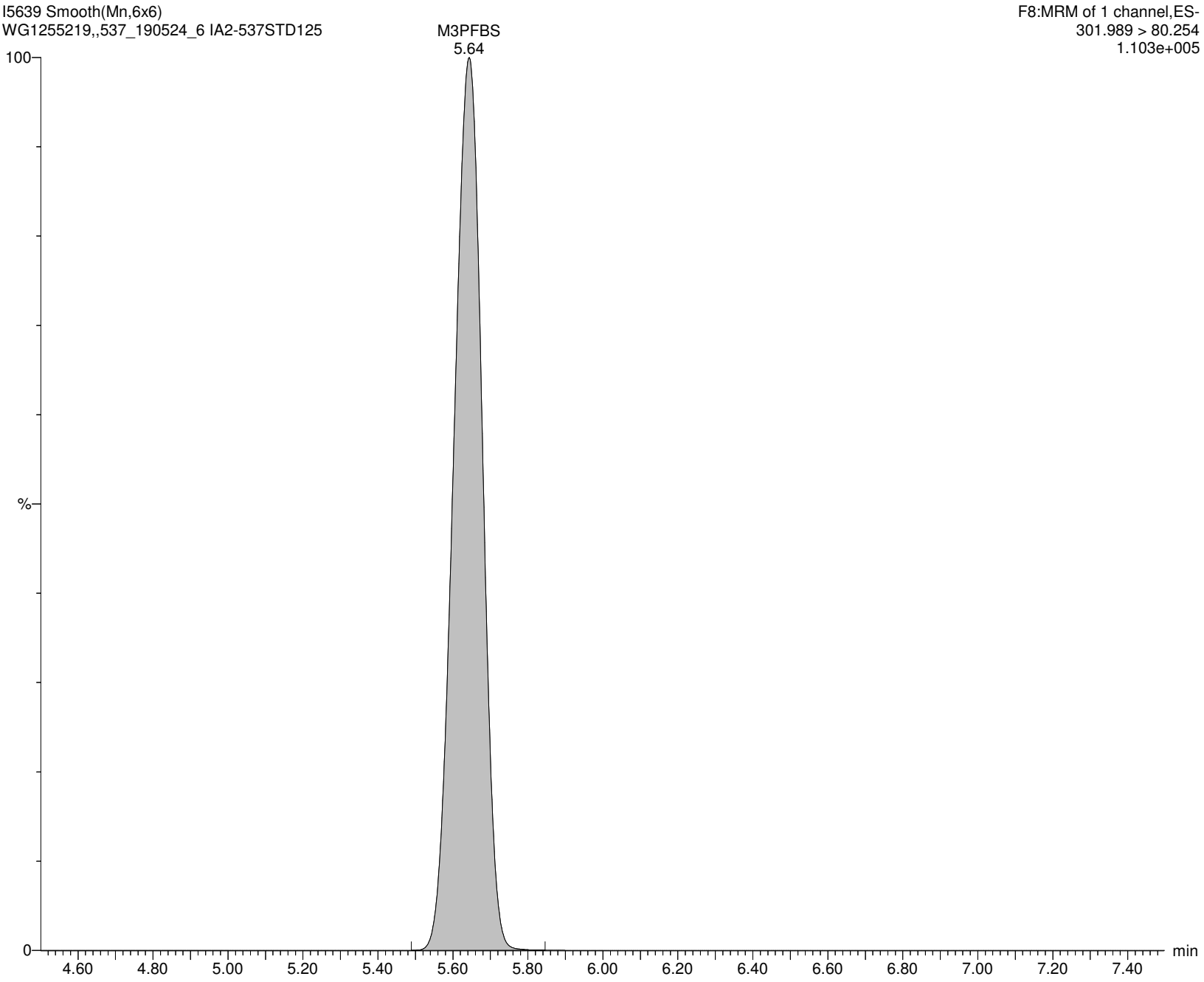


all concentration units in (ng/mL)

Alpha Analytical Inc.
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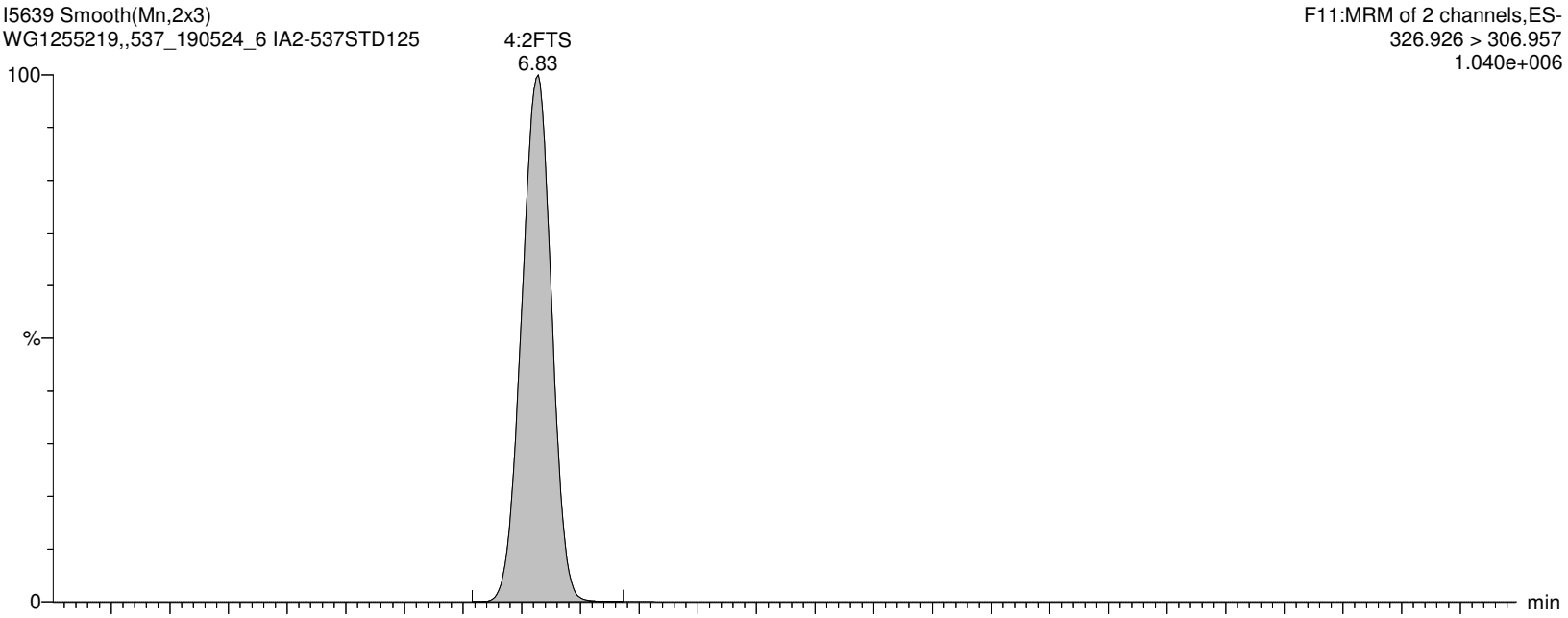


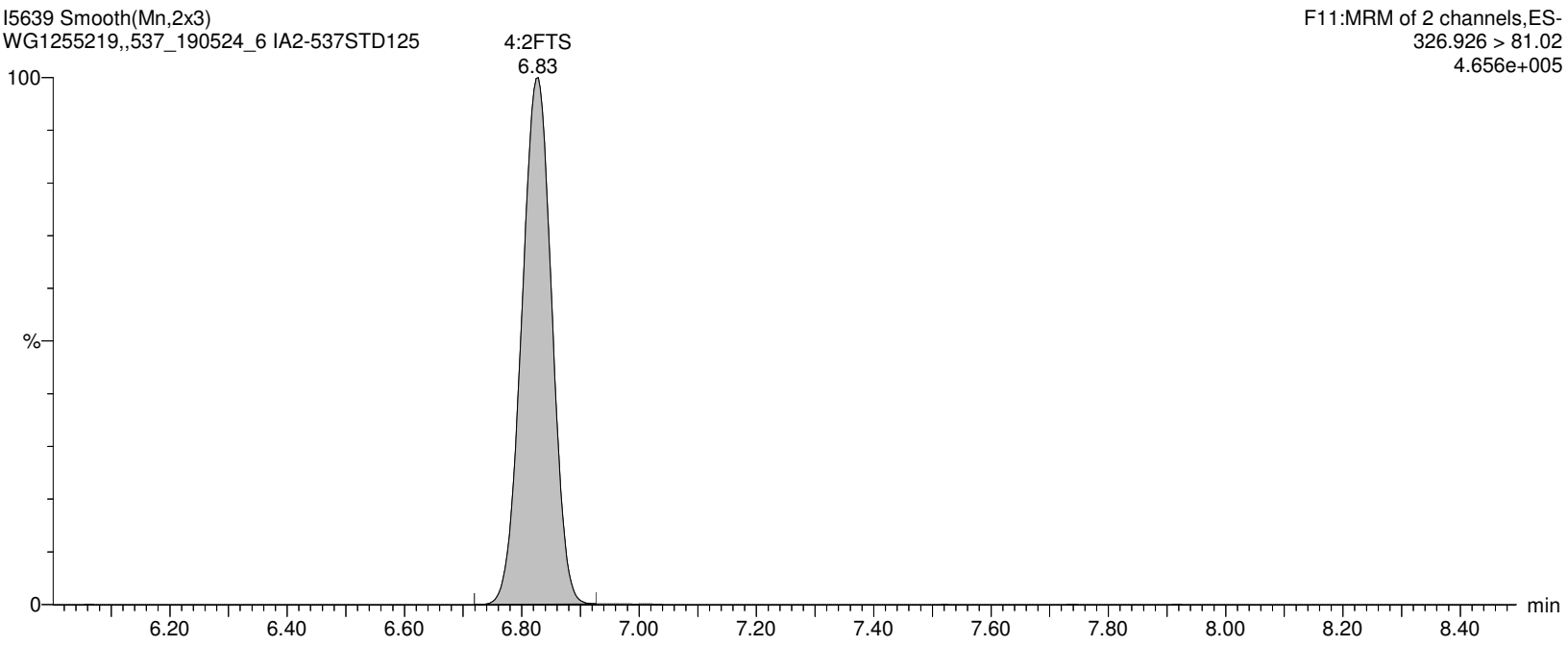
all concentration units in (ng/mL)

Alpha Analytical Inc.
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4:2FTS



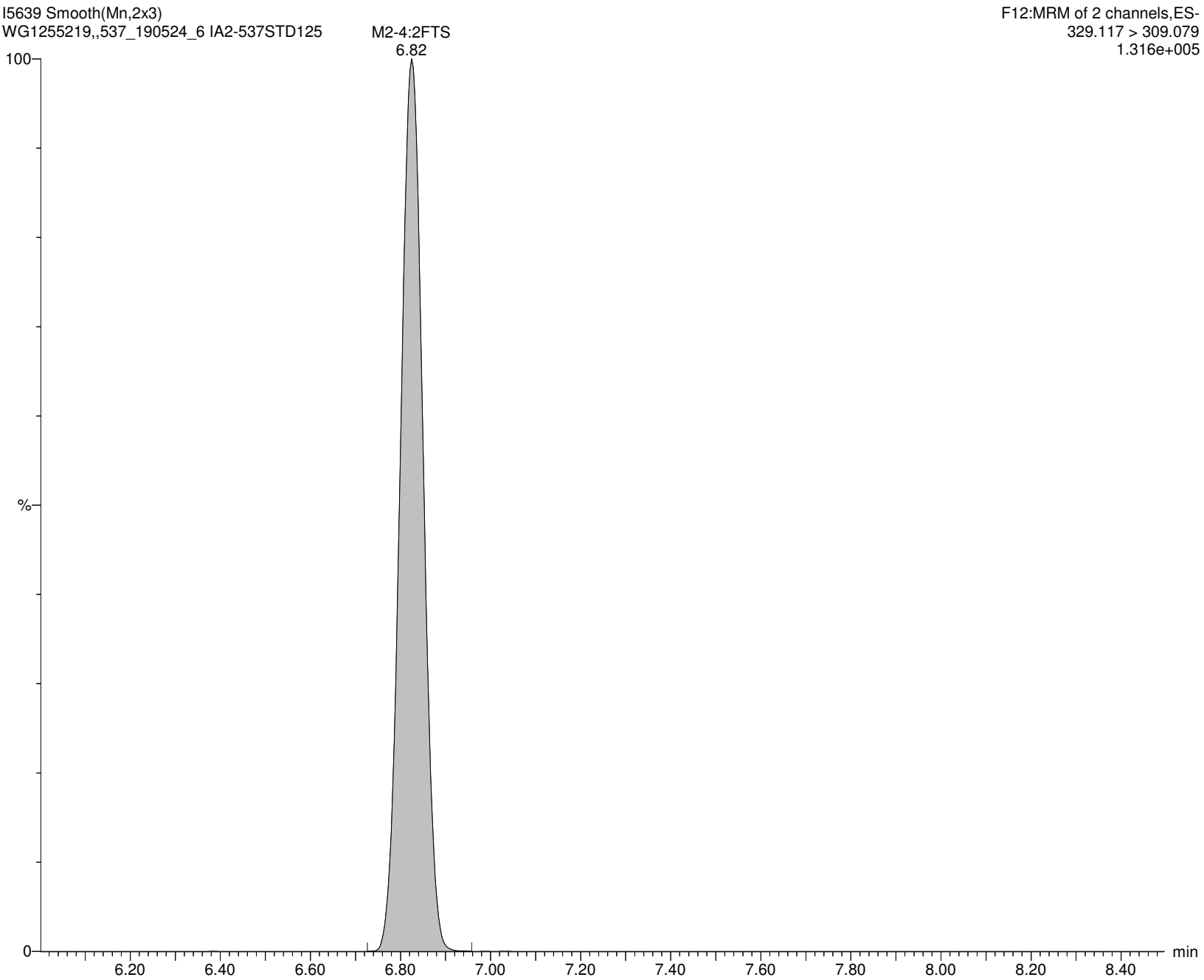


all concentration units in (ng/mL)

Alpha Analytical Inc.
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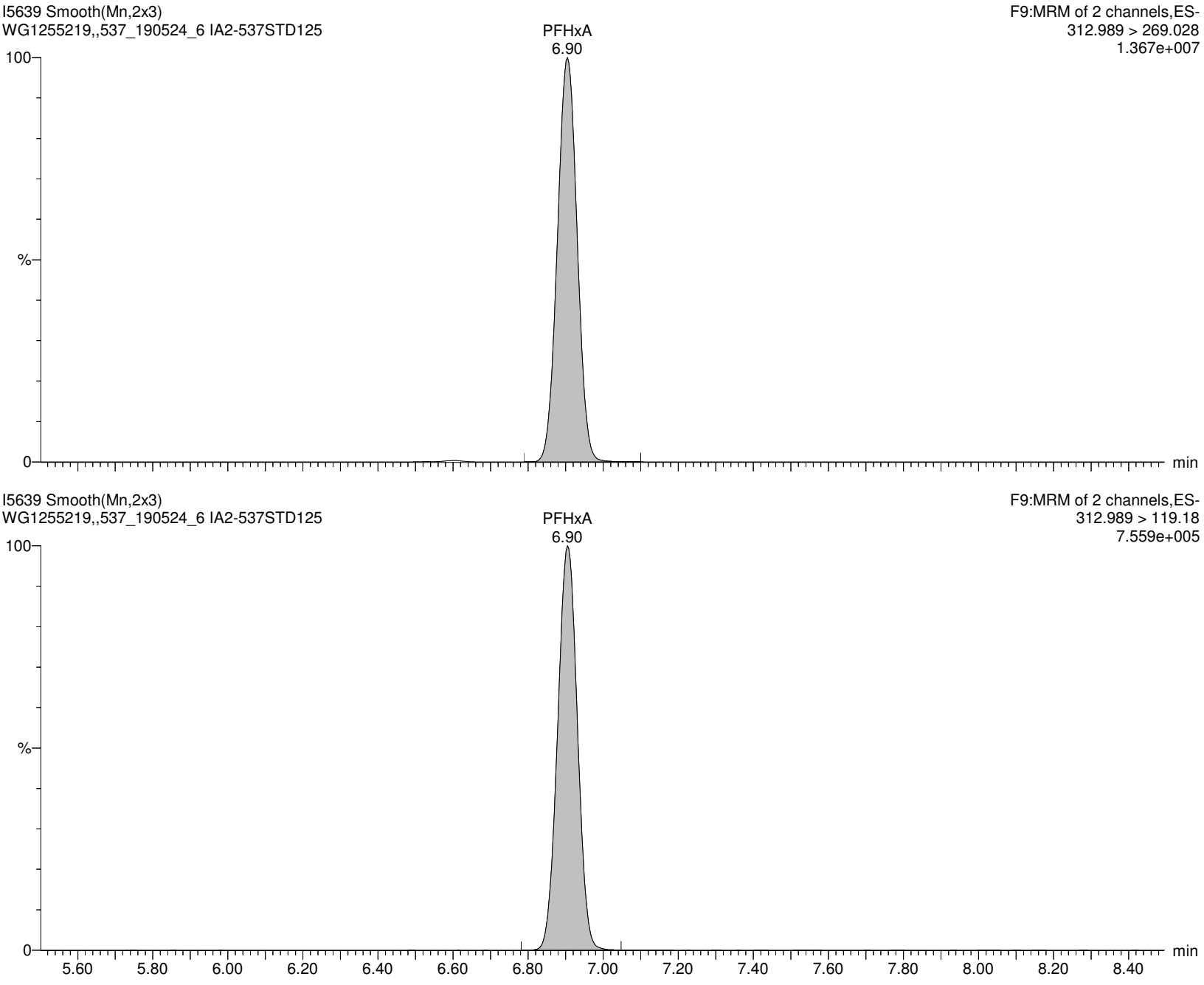


all concentration units in (ng/mL)

Alpha Analytical Inc.
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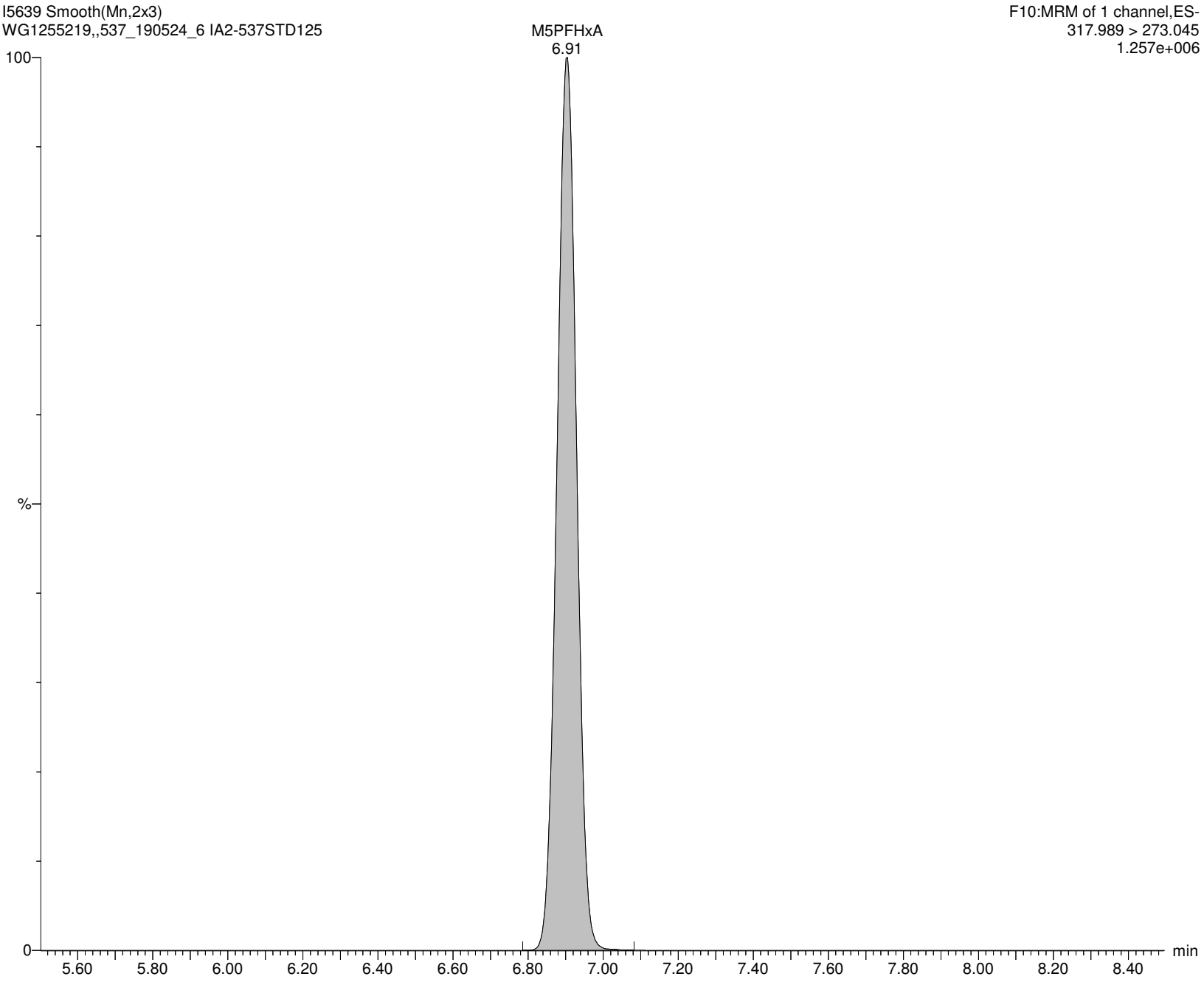


all concentration units in (ng/mL)

Alpha Analytical Inc.
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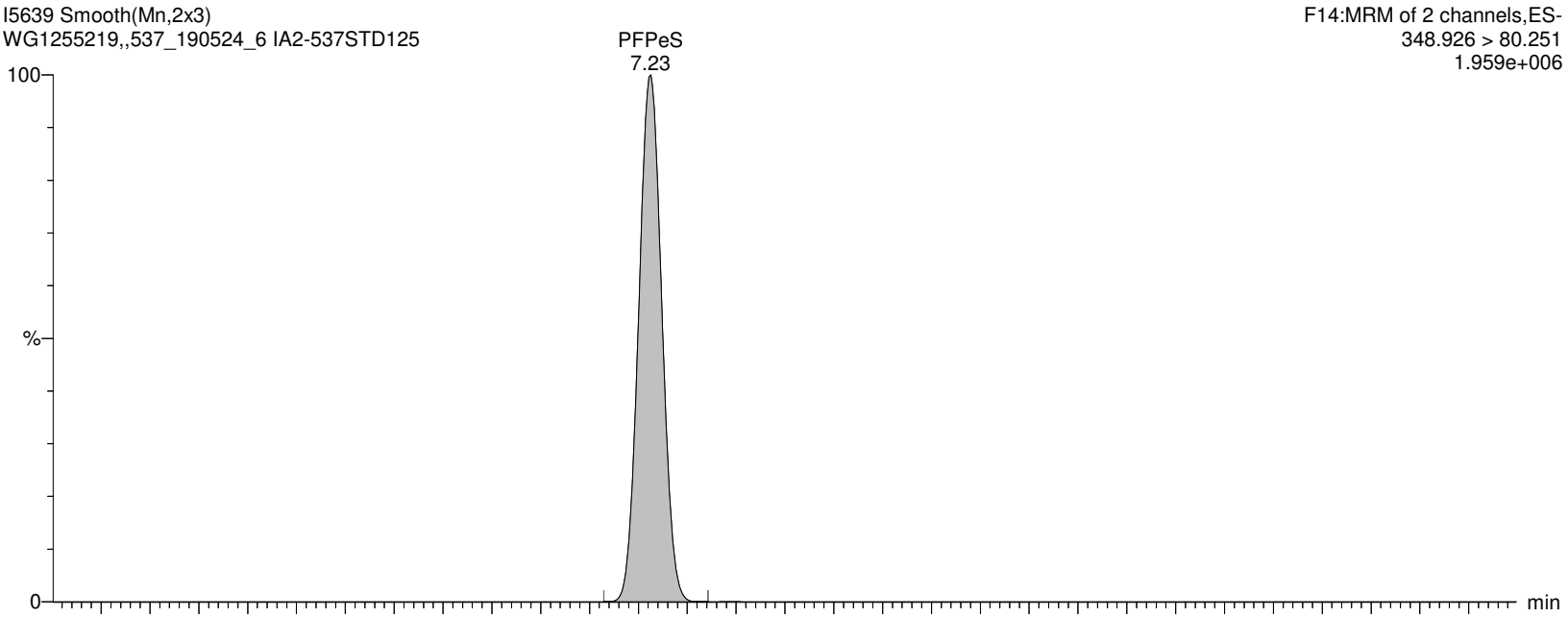


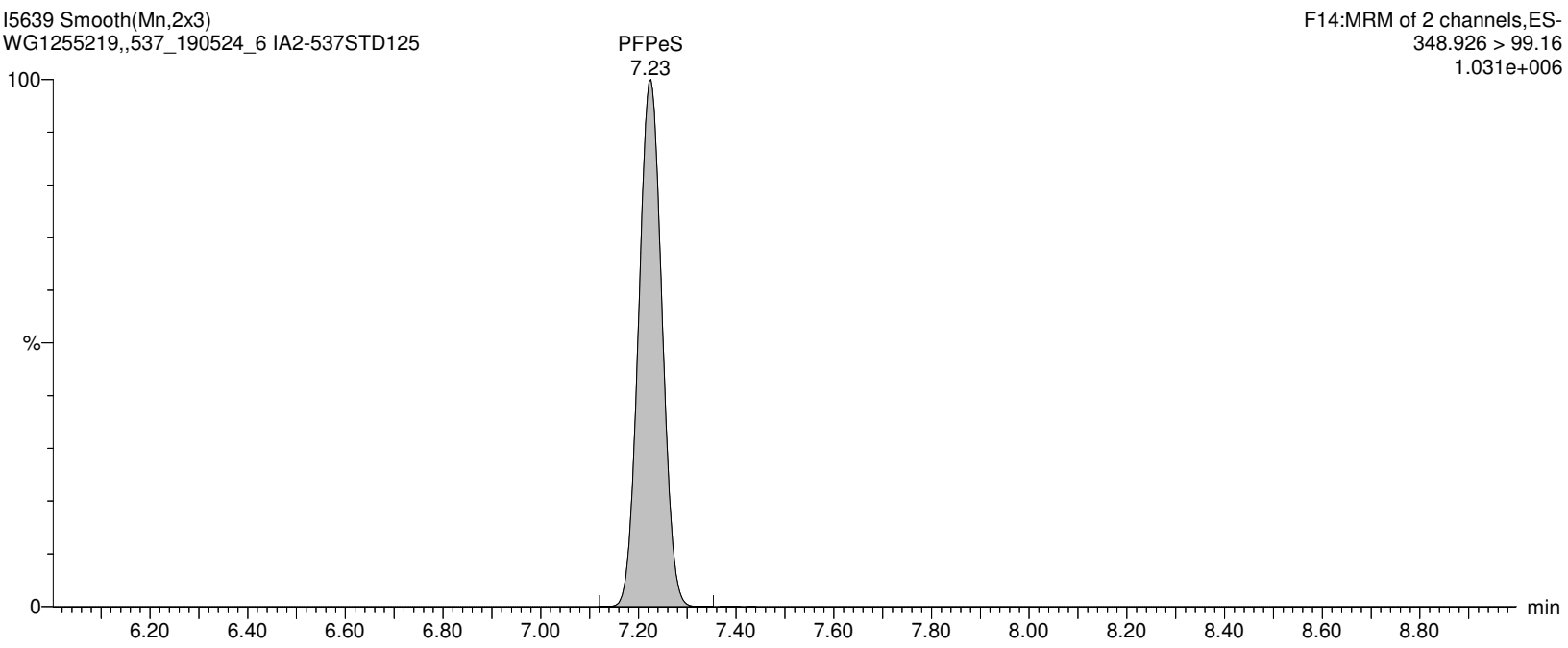
all concentration units in (ng/mL)

Alpha Analytical Inc.
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PFPeS



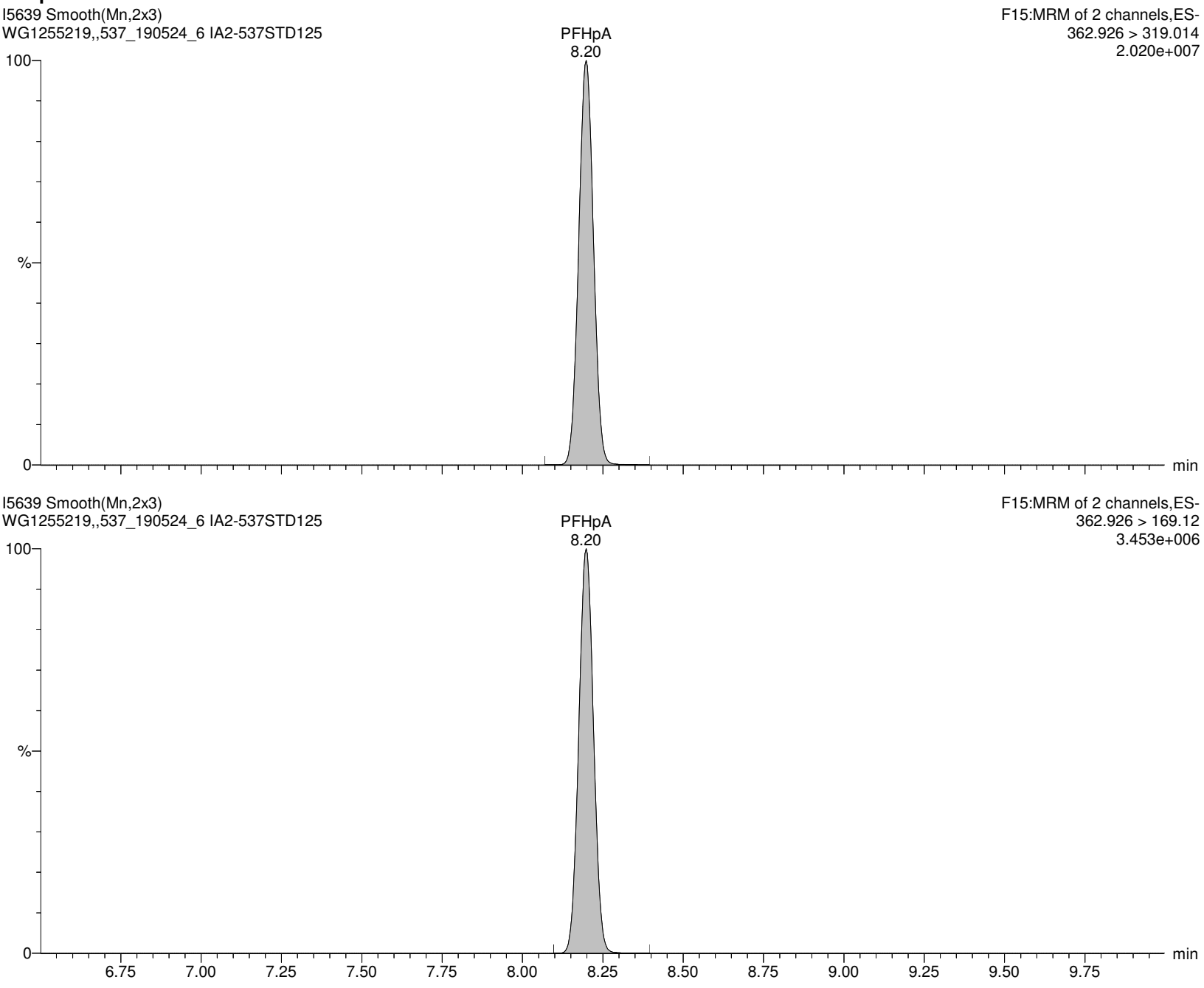


all concentration units in (ng/mL)

Alpha Analytical Inc.
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PFHpA

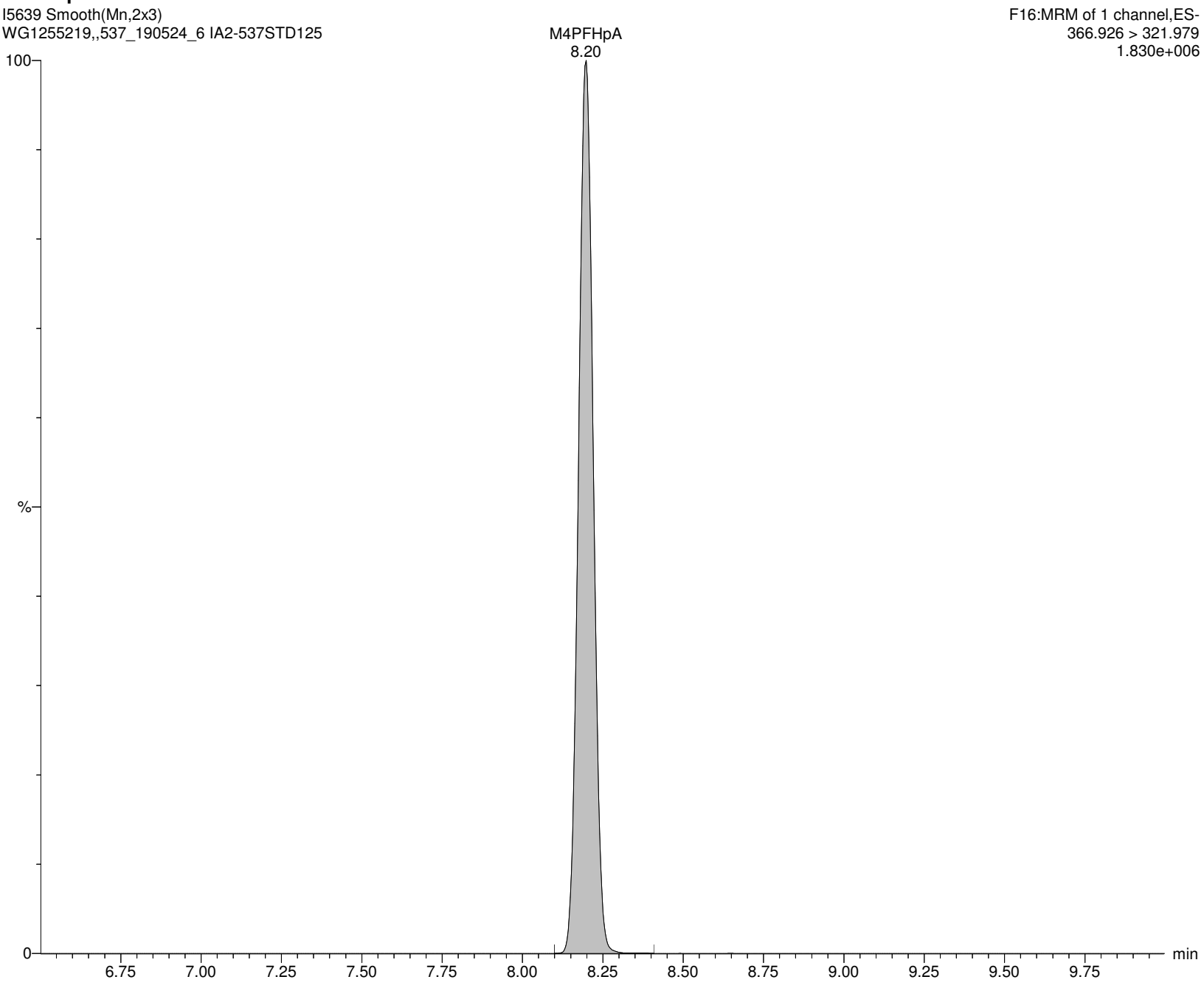


all concentration units in (ng/mL)

Alpha Analytical Inc.
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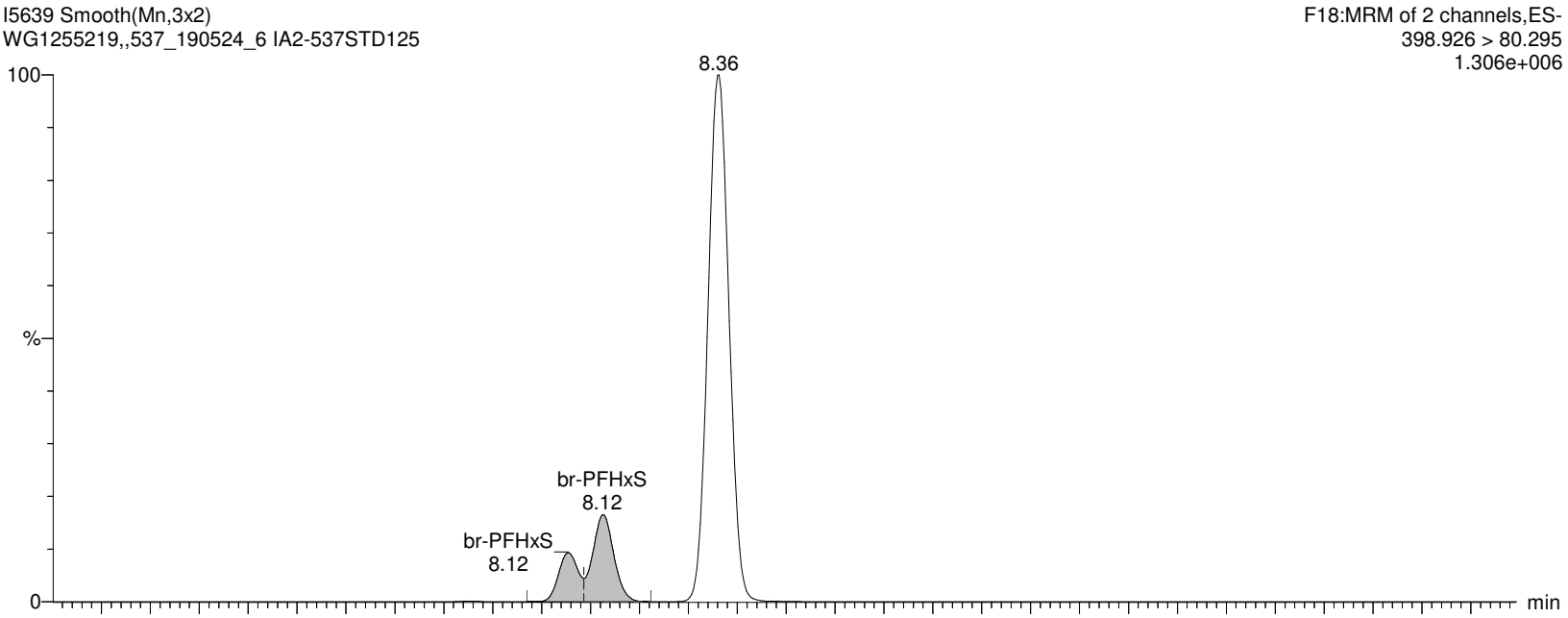


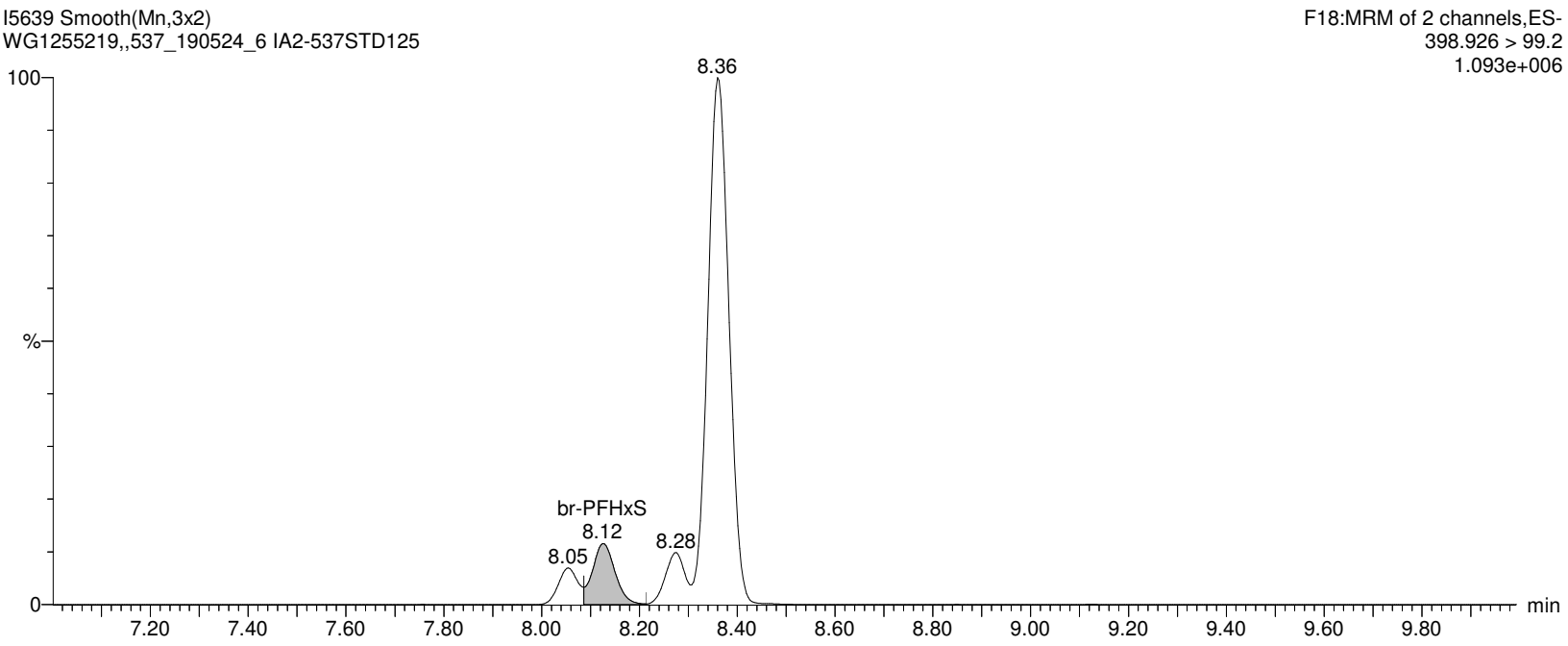
all concentration units in (ng/mL)

Alpha Analytical Inc.
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br-PFHxS



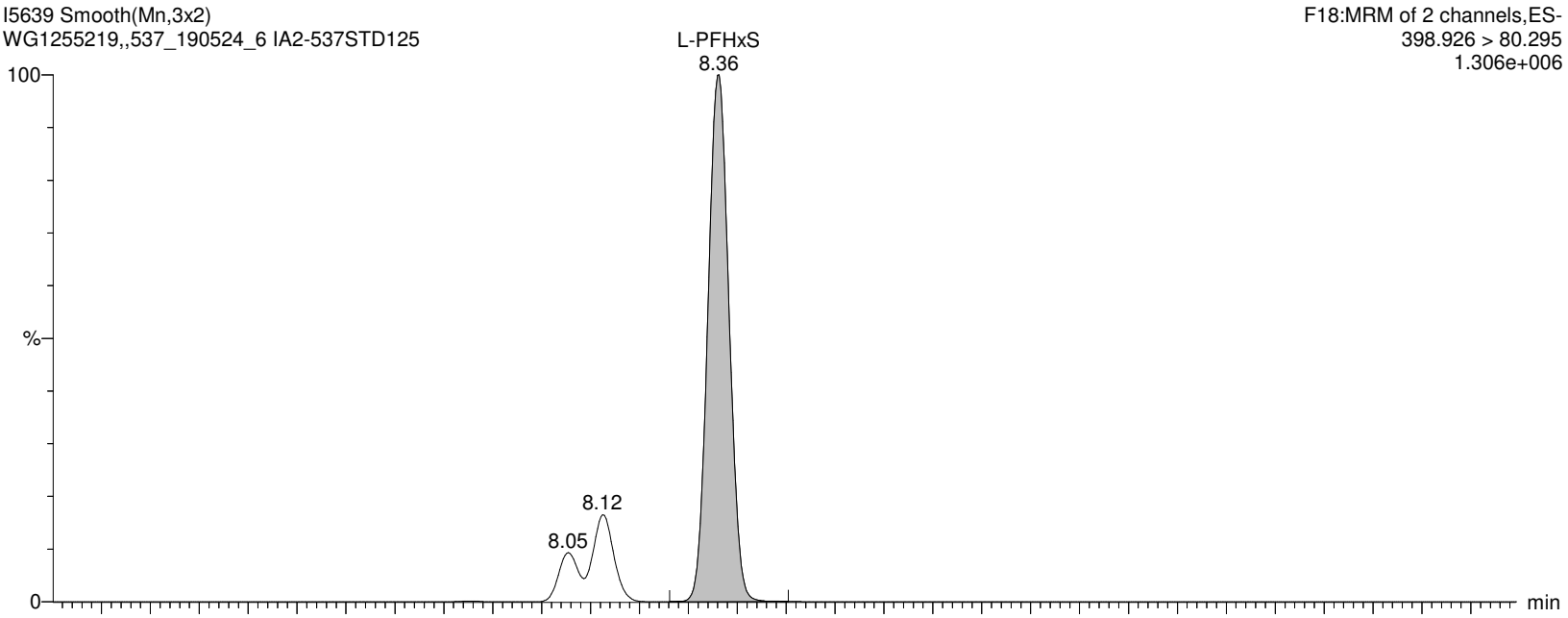


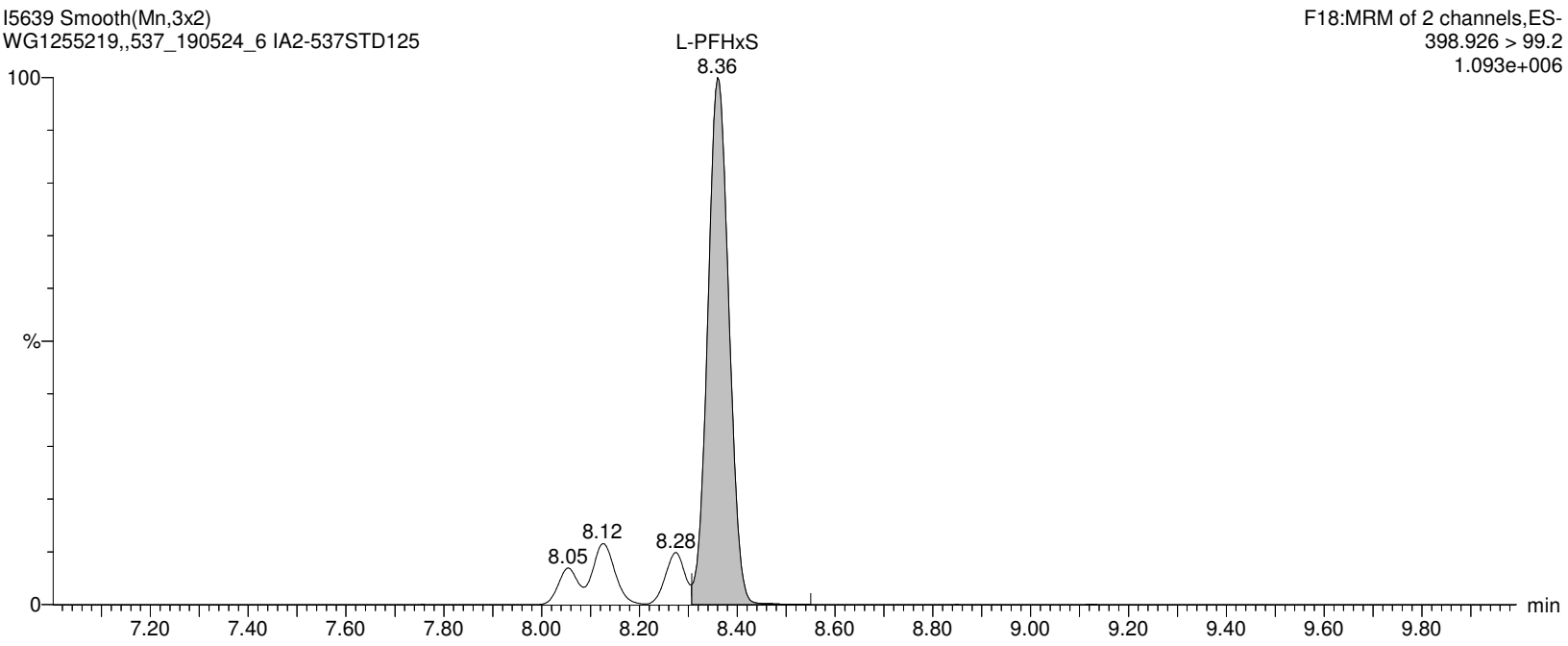
all concentration units in (ng/mL)

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L-PFHxS



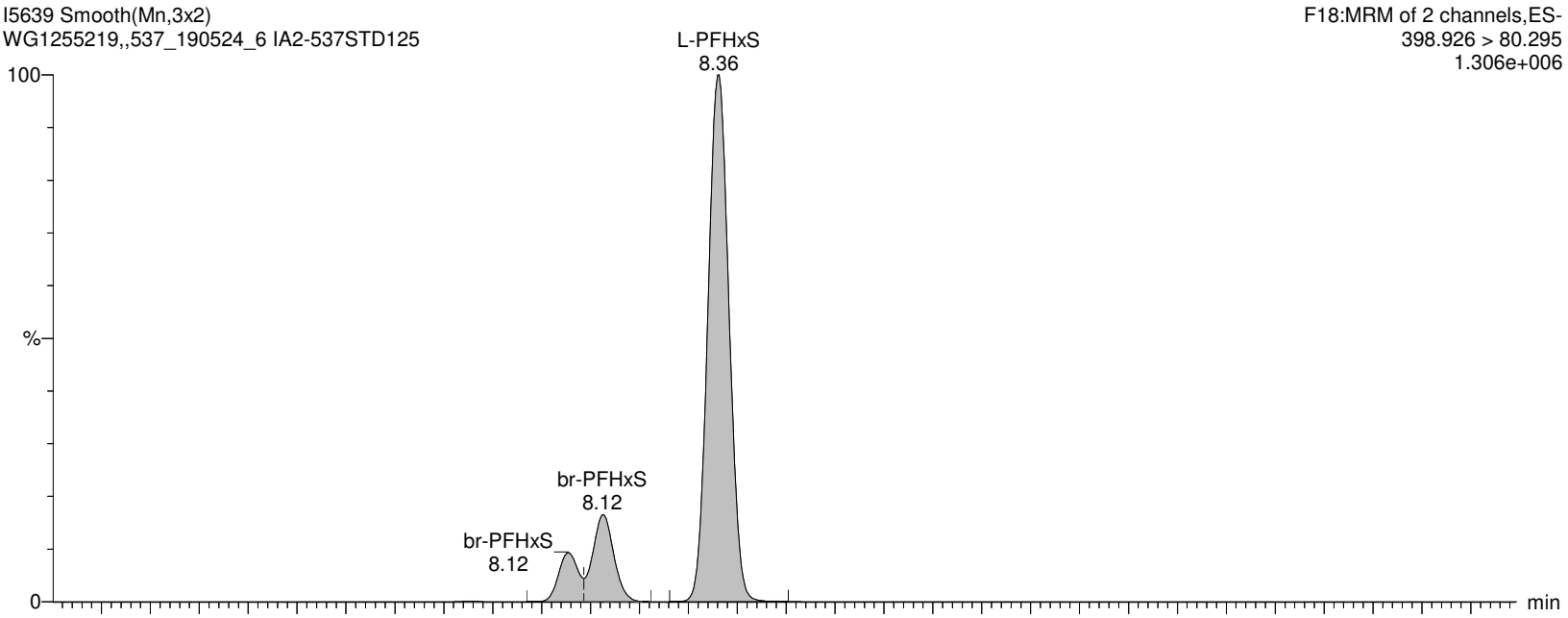


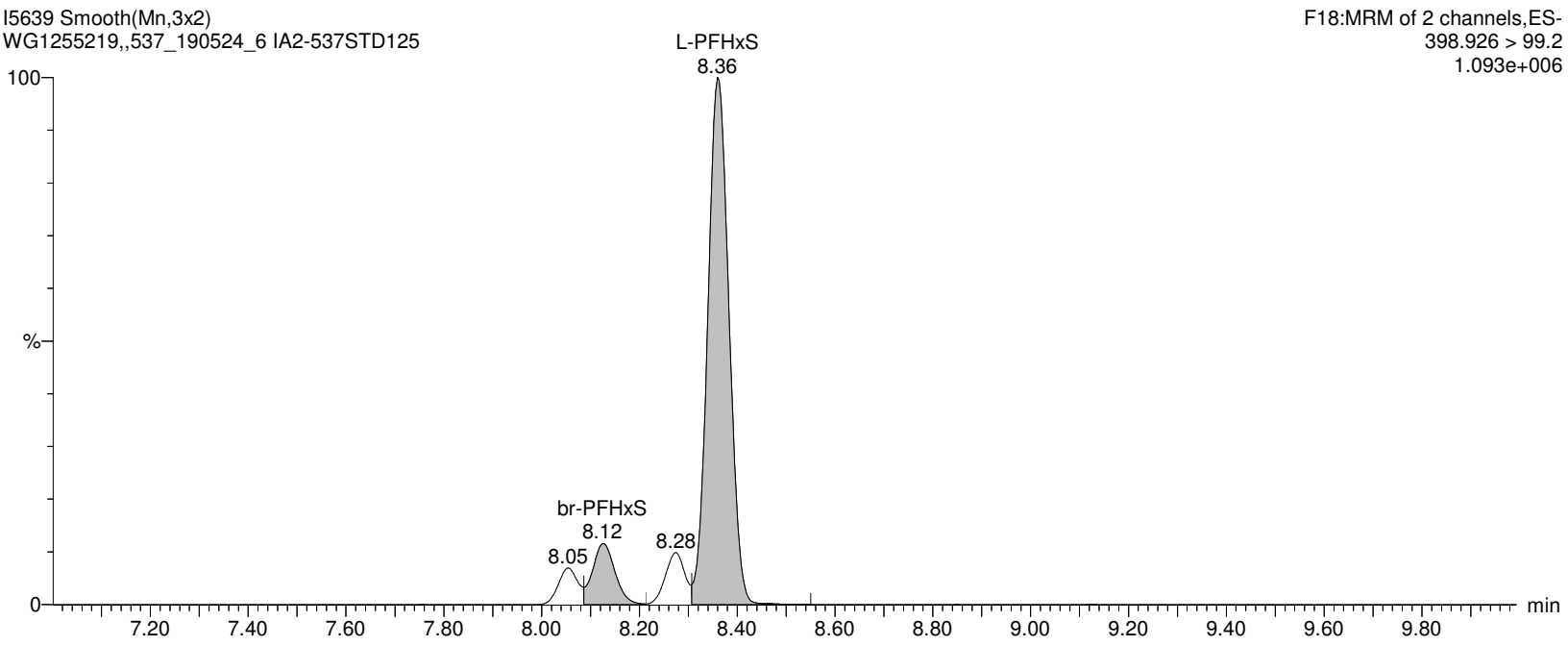
all concentration units in (ng/mL)

Alpha Analytical Inc.
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PFHxS



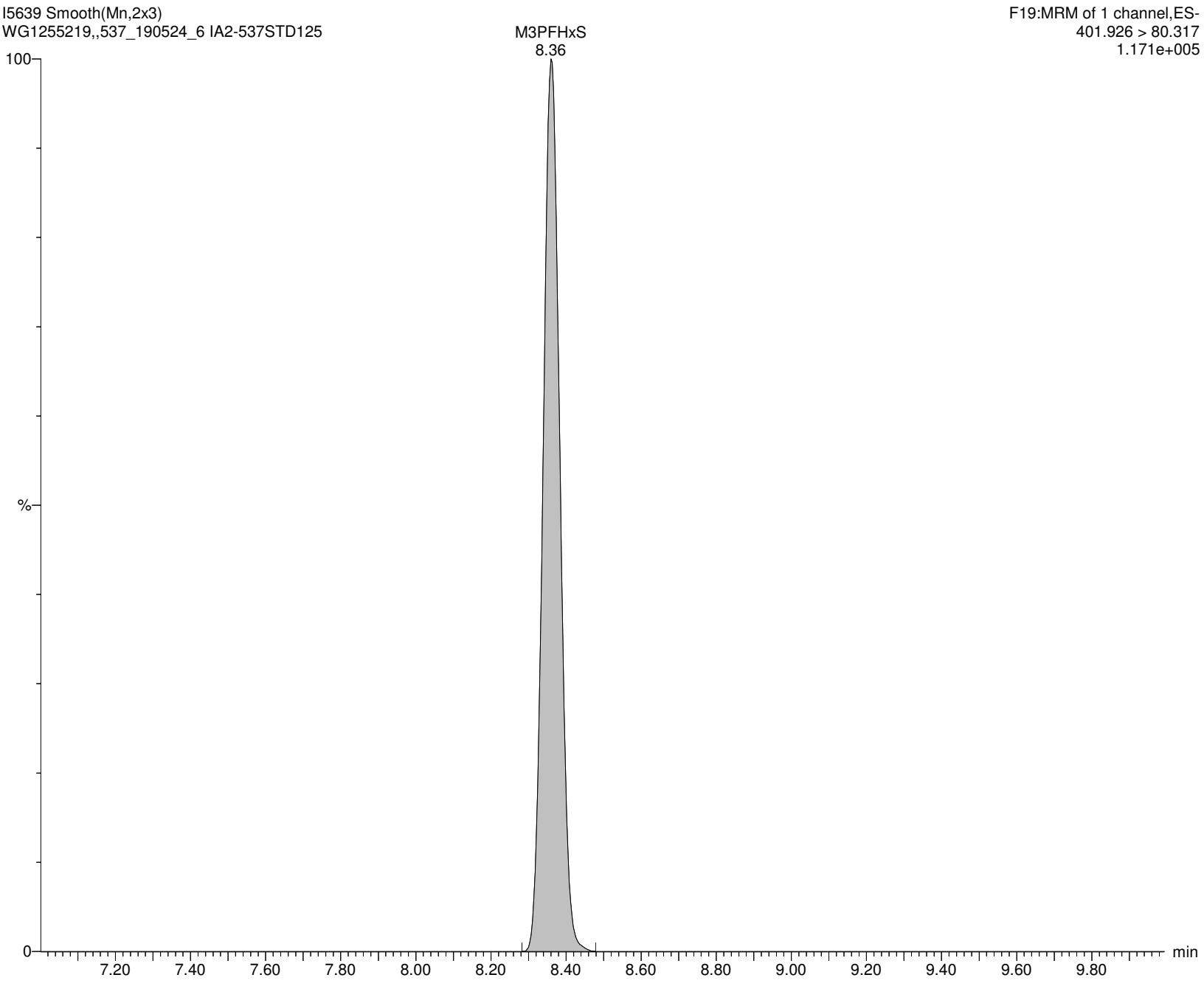


all concentration units in (ng/mL)

Alpha Analytical Inc.
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M3PFHxS

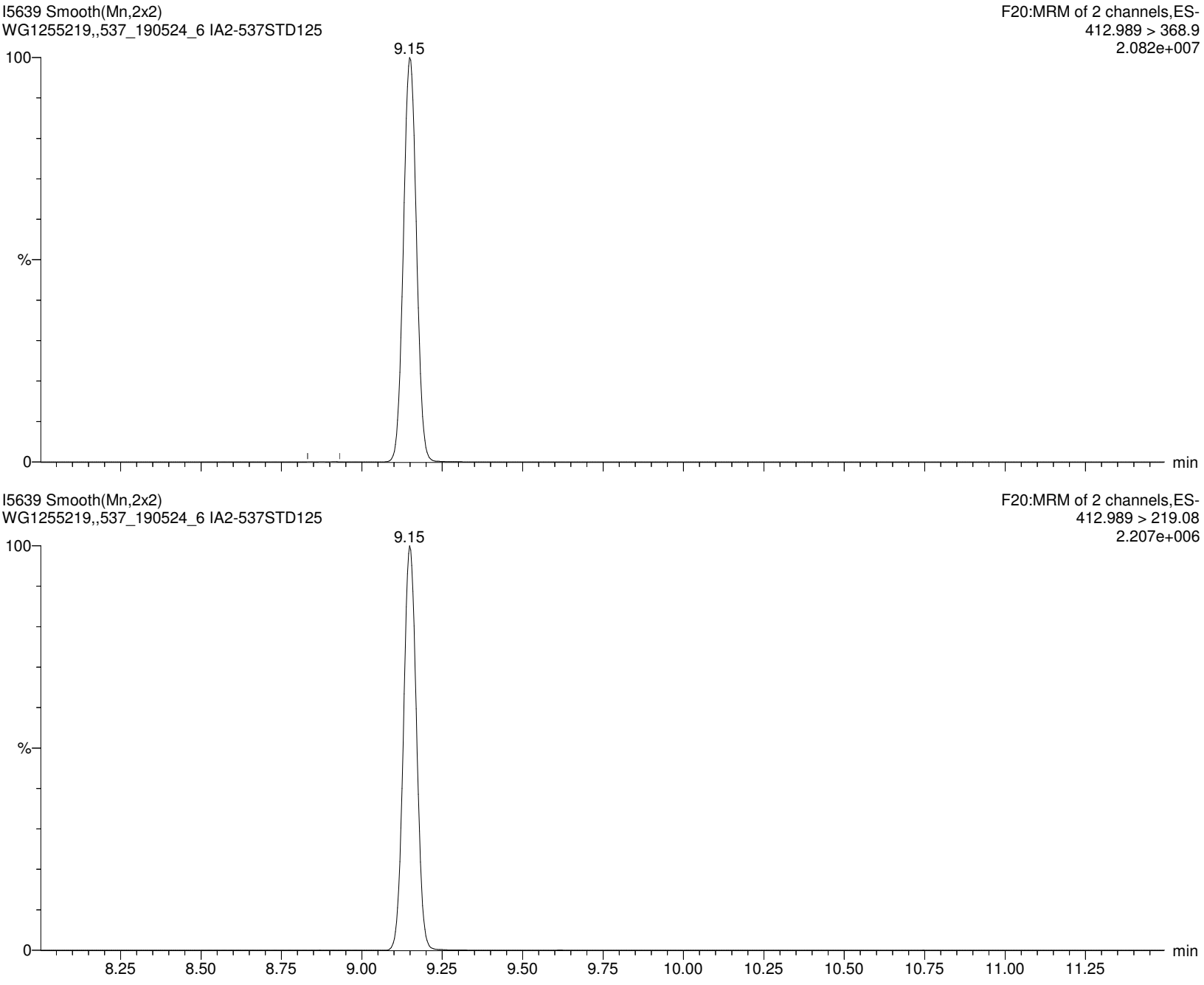


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:39 Eastern Daylight Time

Name: I5639
ID: IA2-537STD125
Date: 01-Jul-2019
Time: 19:20:11
Description: WG1255219,,537_190524_6
User: LCMS02:JW
Vial: 1:A,7
Instrument: XEVO-TQSmicro#QEB0050
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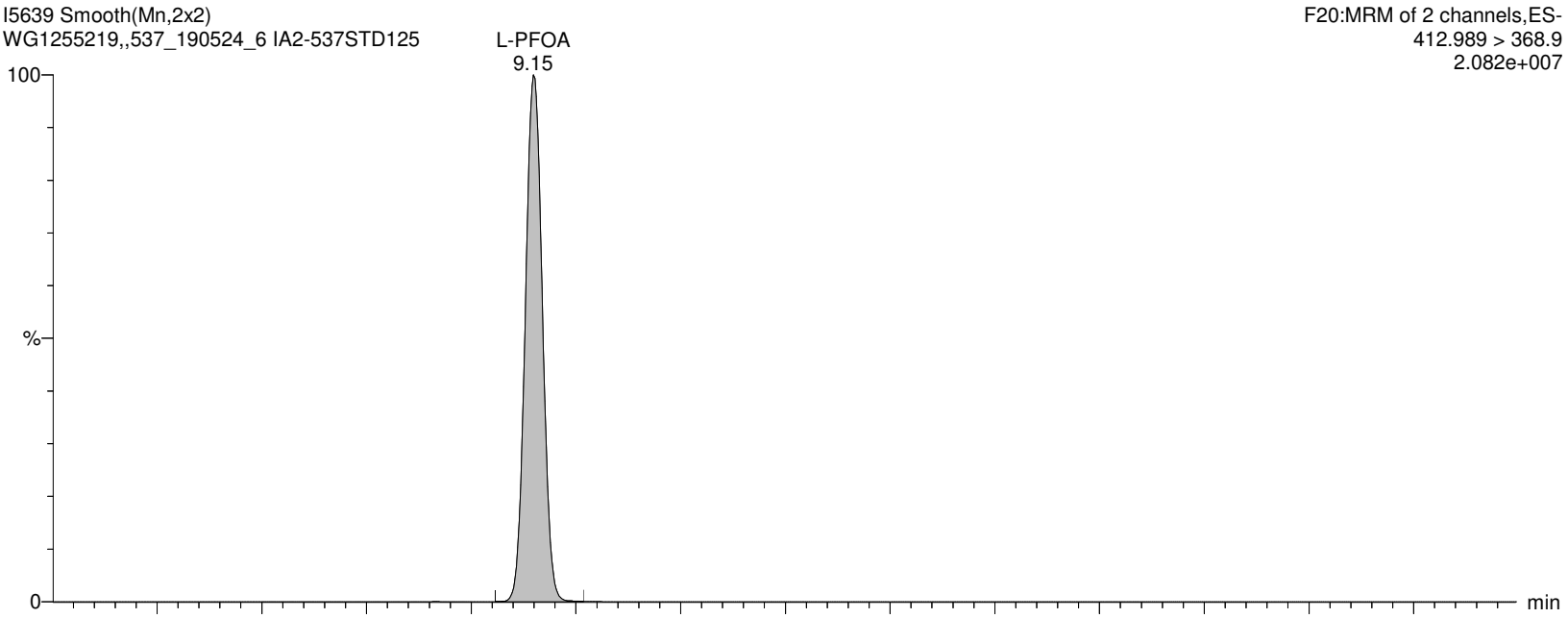


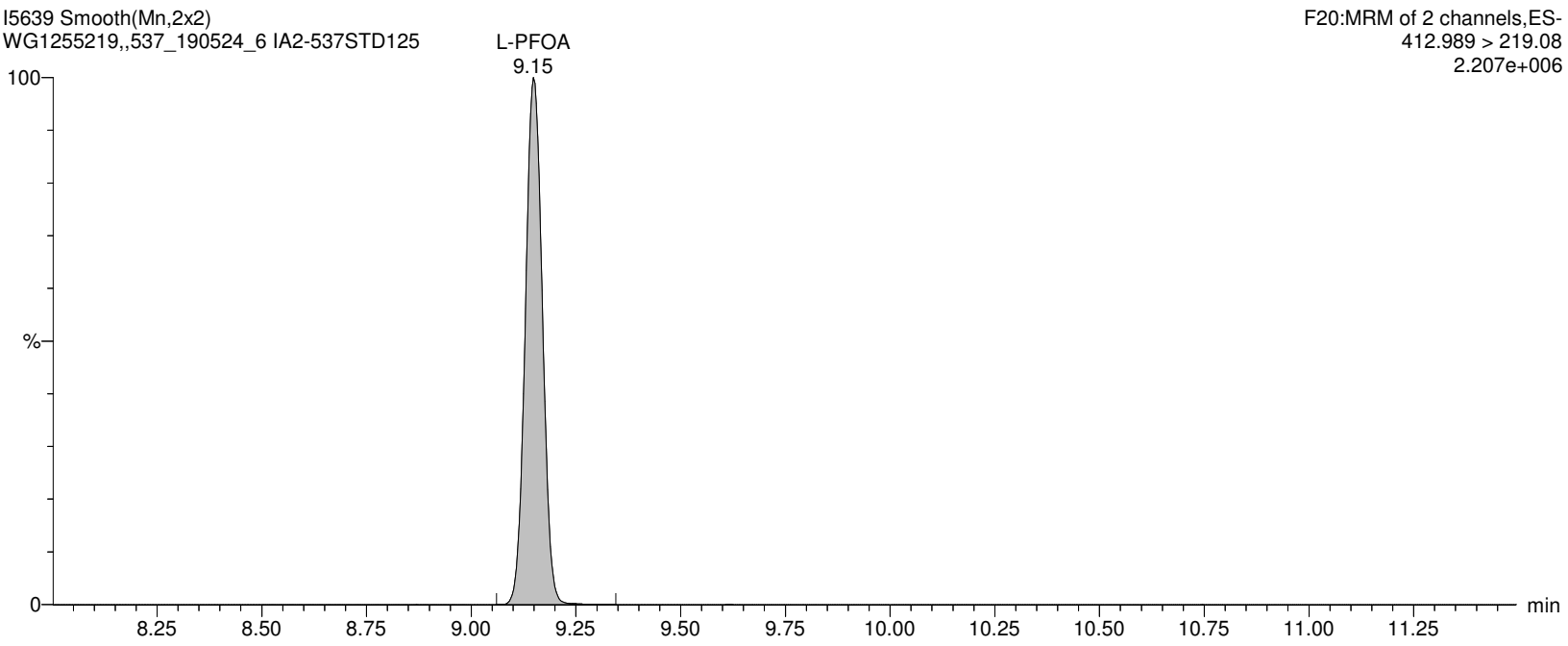
all concentration units in (ng/mL)

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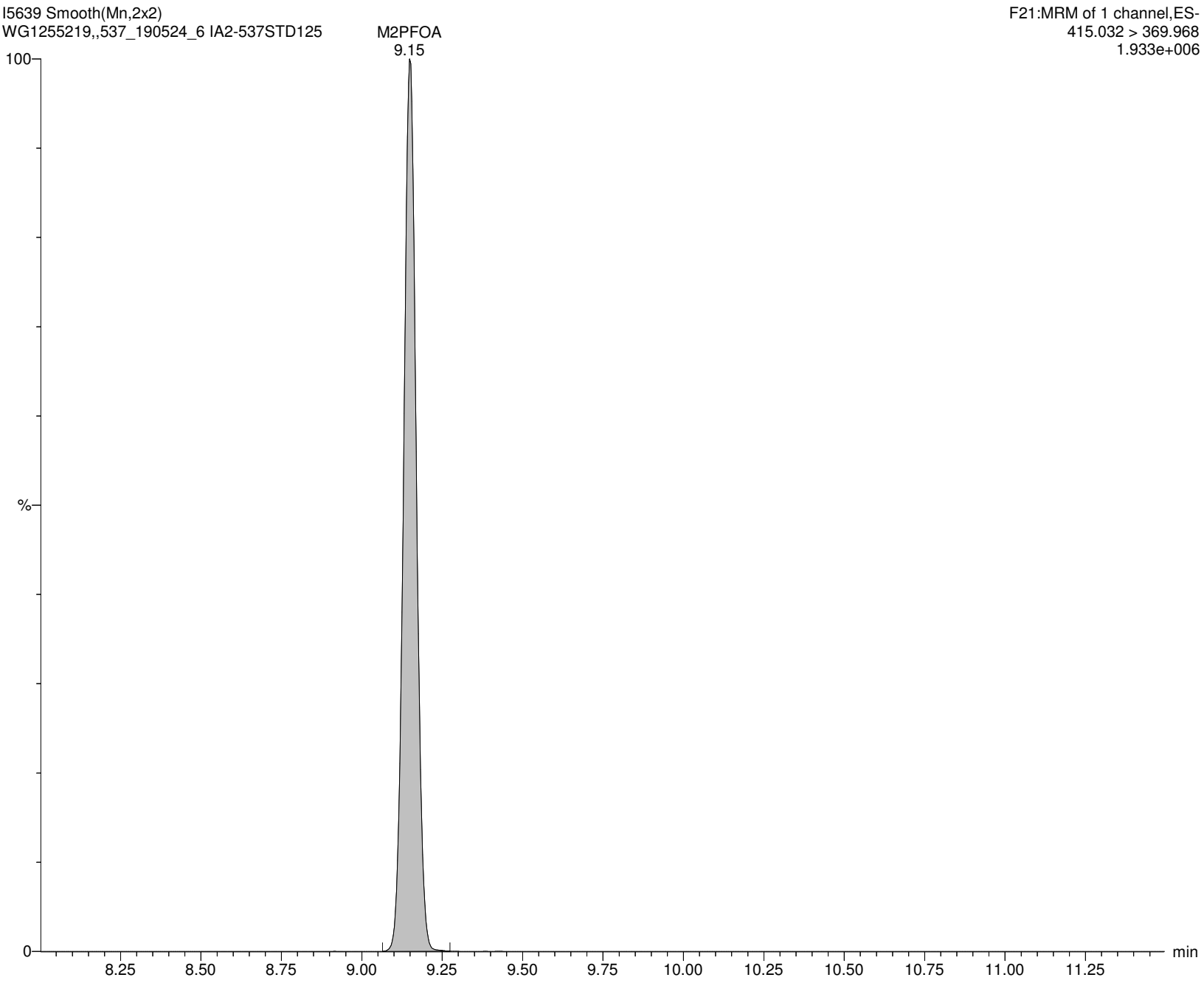


all concentration units in (ng/mL)

Alpha Analytical Inc.
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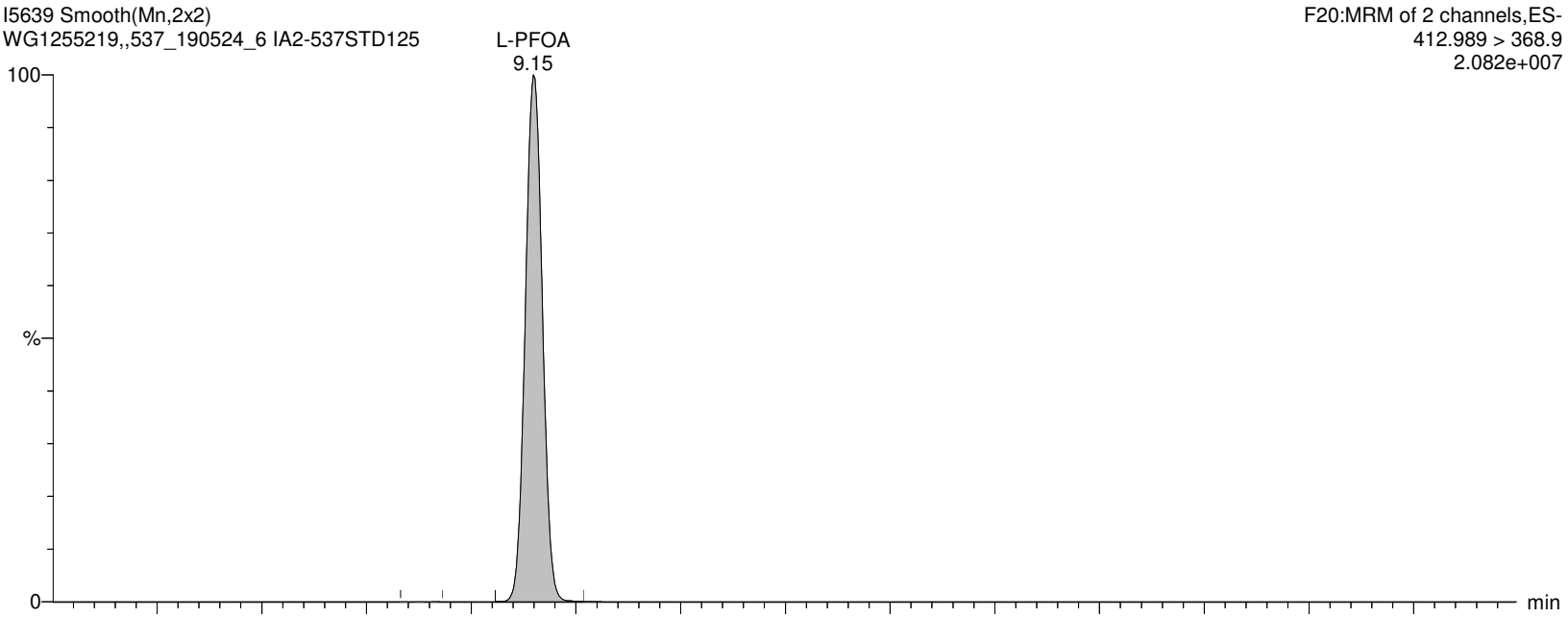


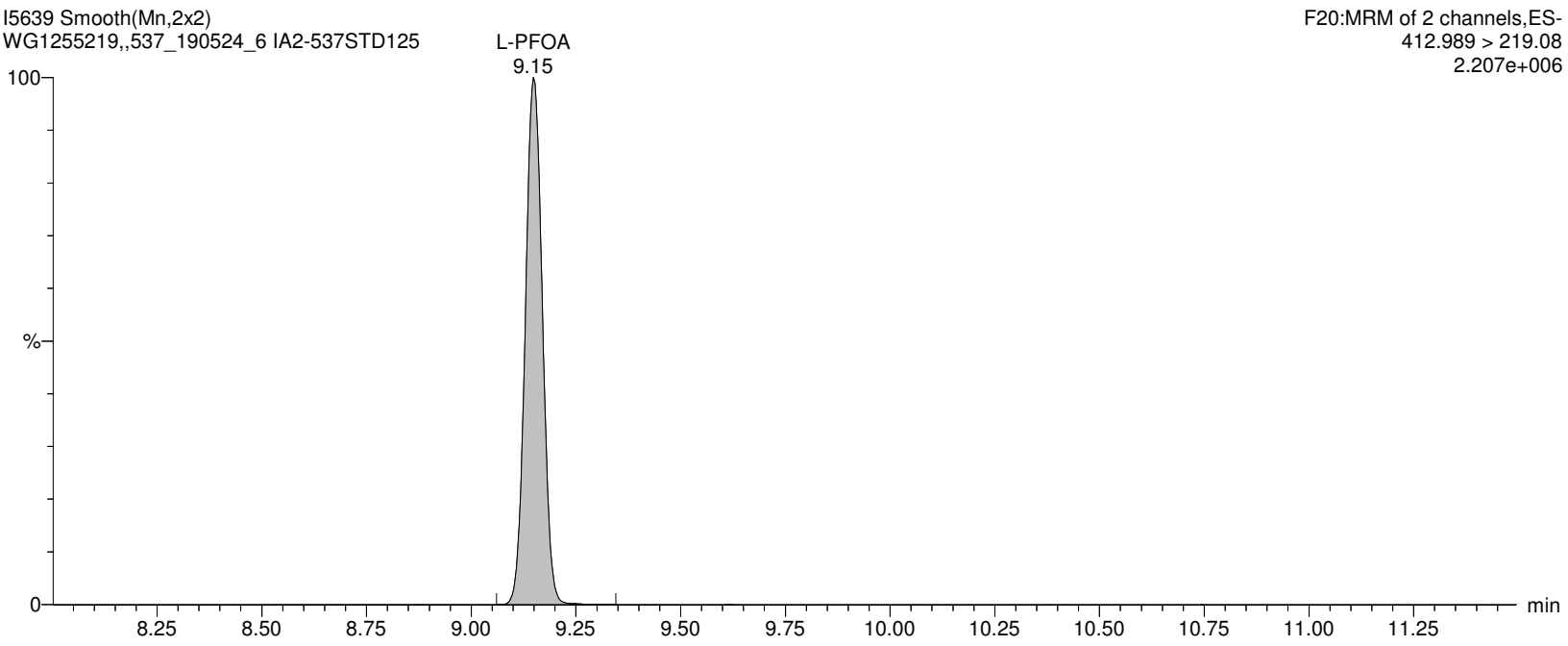
all concentration units in (ng/mL)

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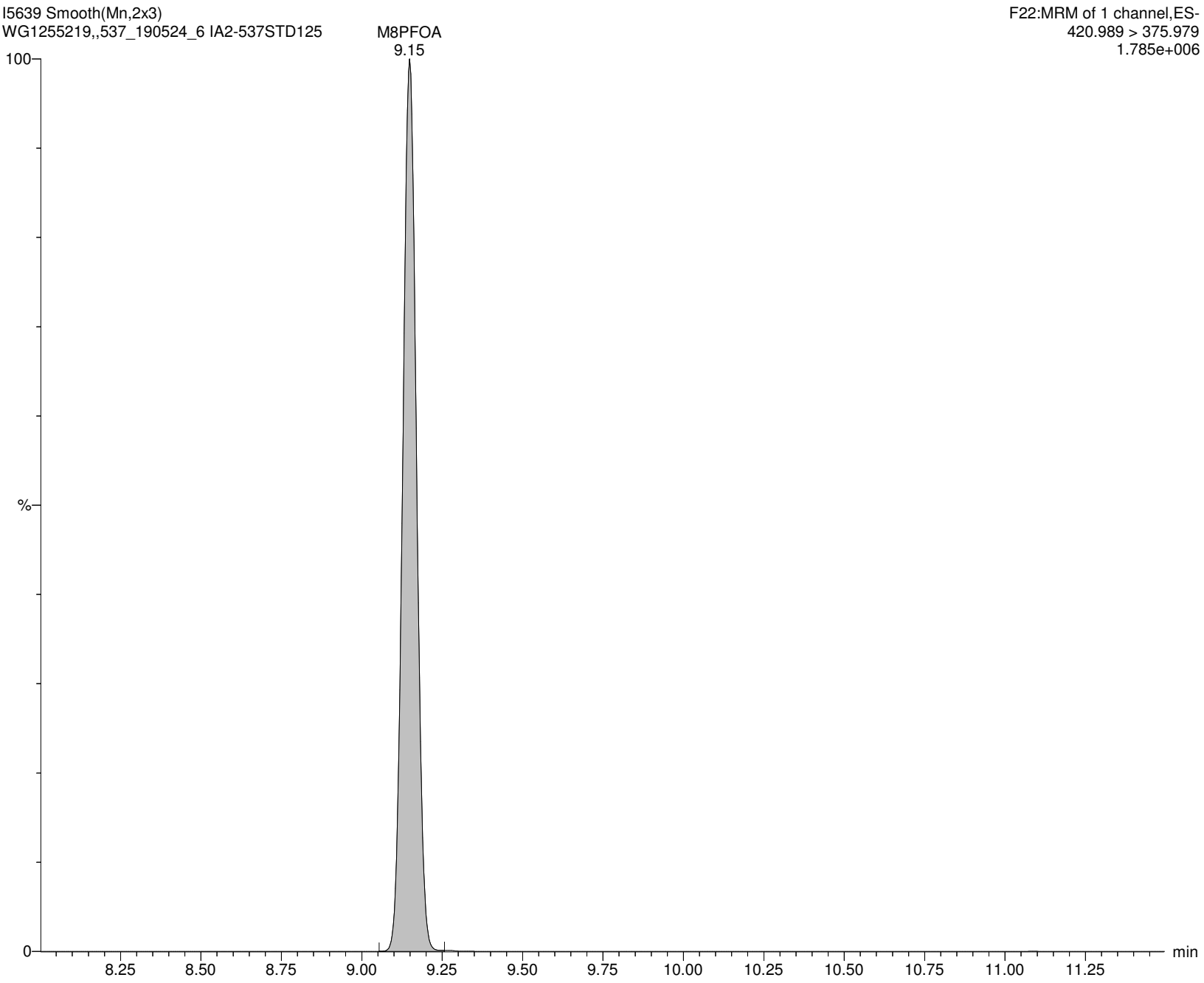


all concentration units in (ng/mL)

Alpha Analytical Inc.
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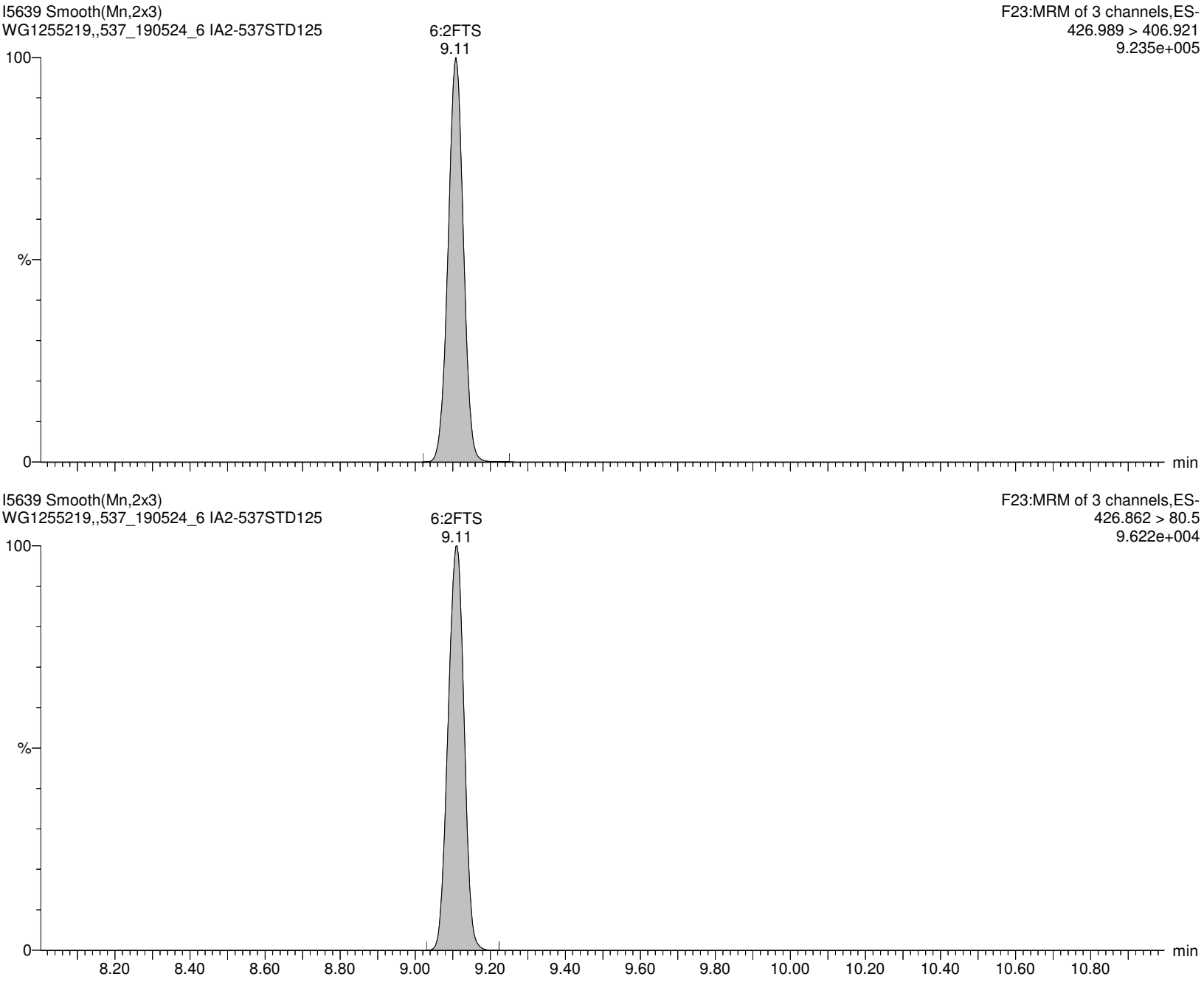


all concentration units in (ng/mL)

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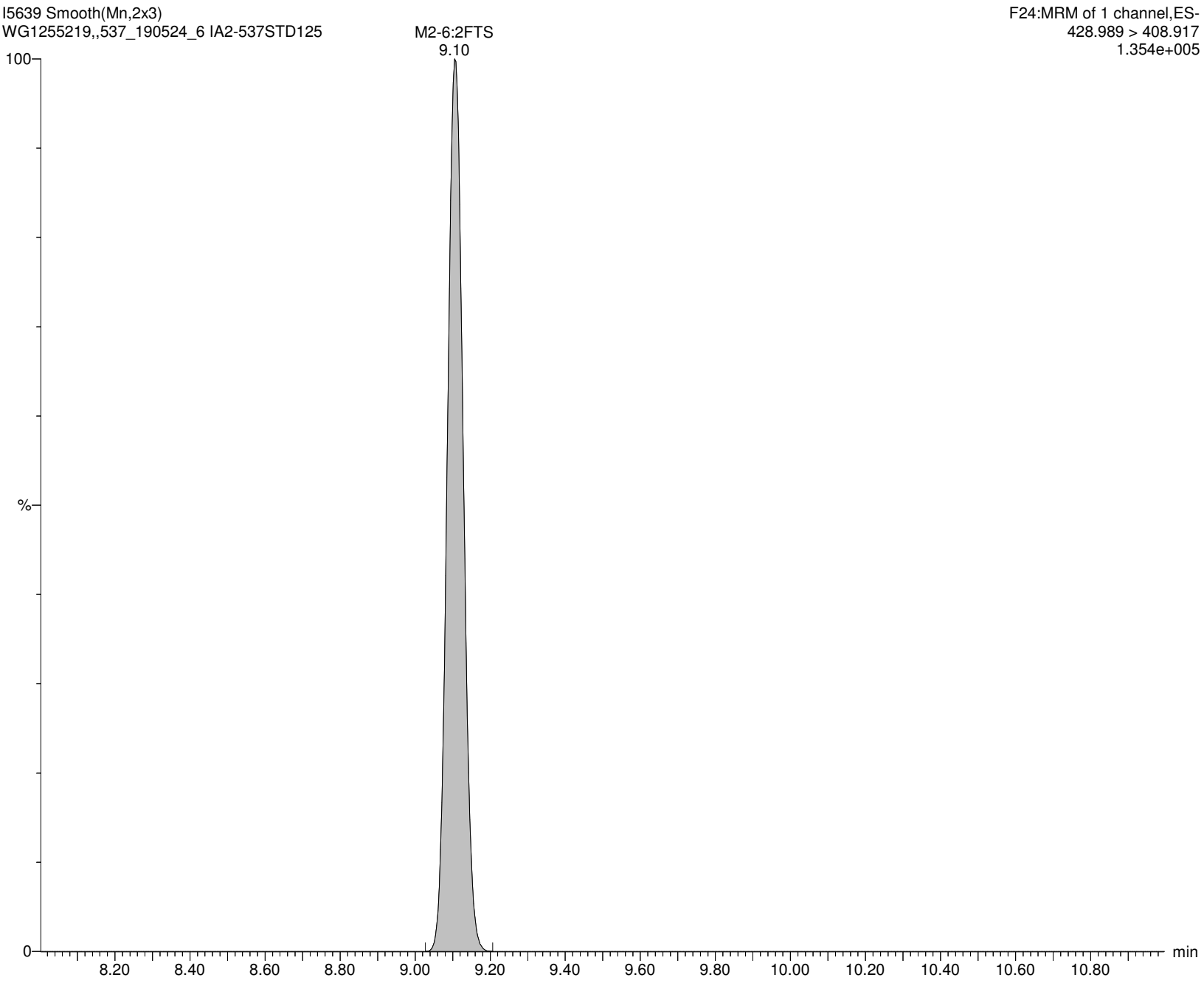


all concentration units in (ng/mL)

Alpha Analytical Inc.
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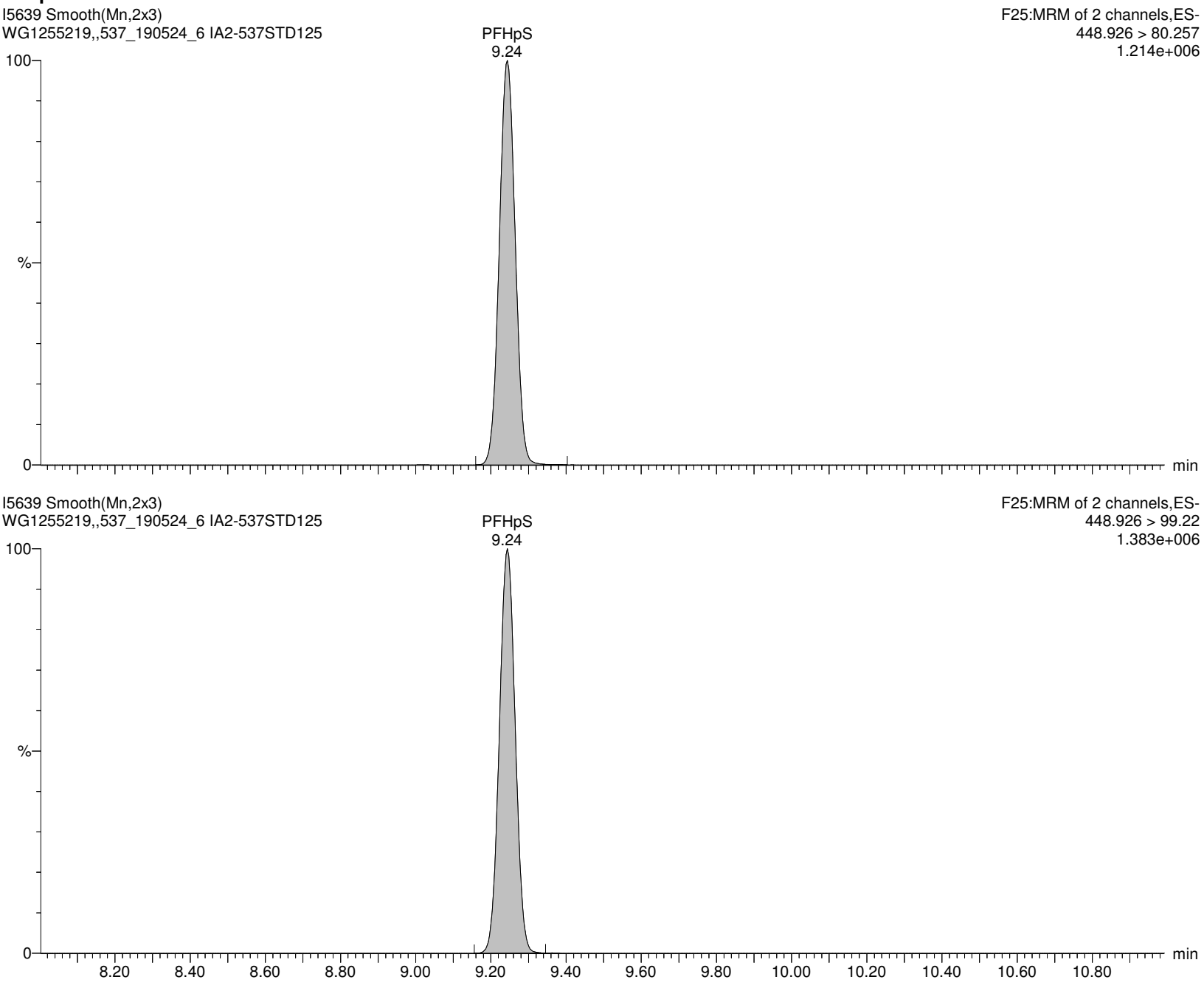


all concentration units in (ng/mL)

Alpha Analytical Inc.
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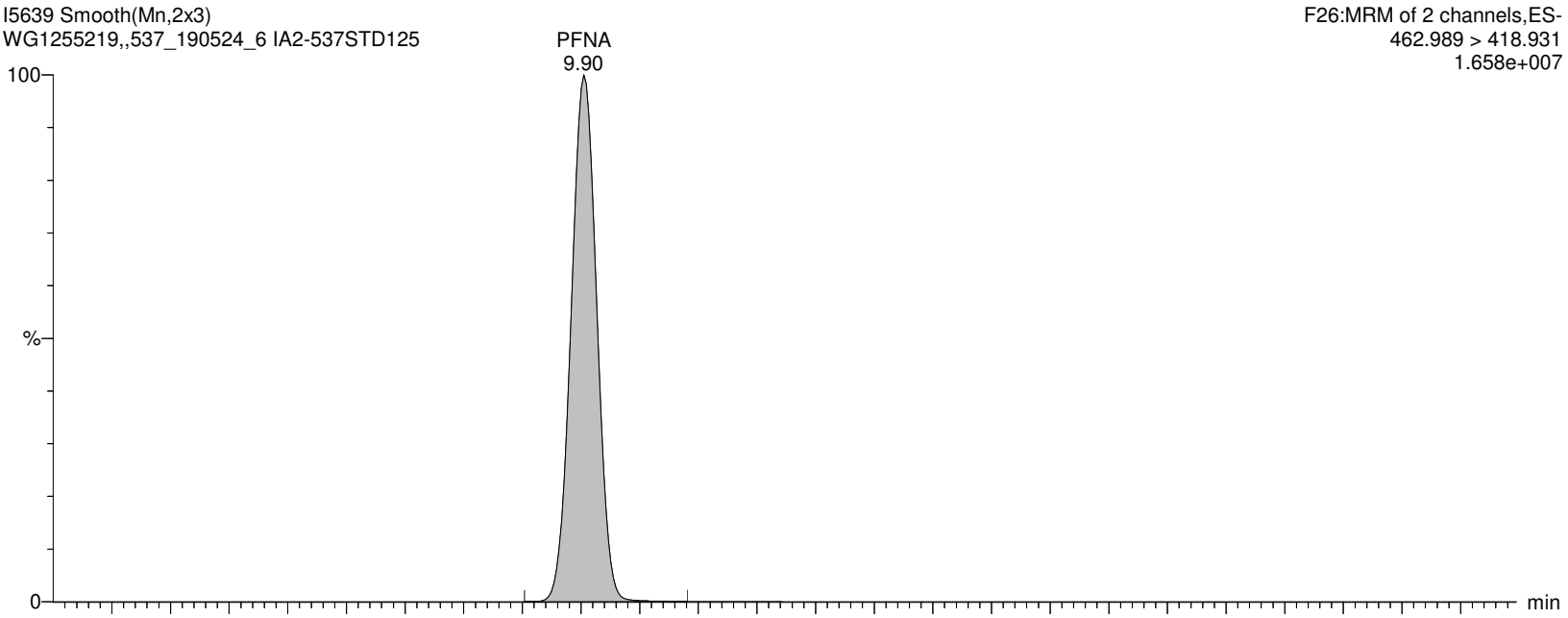


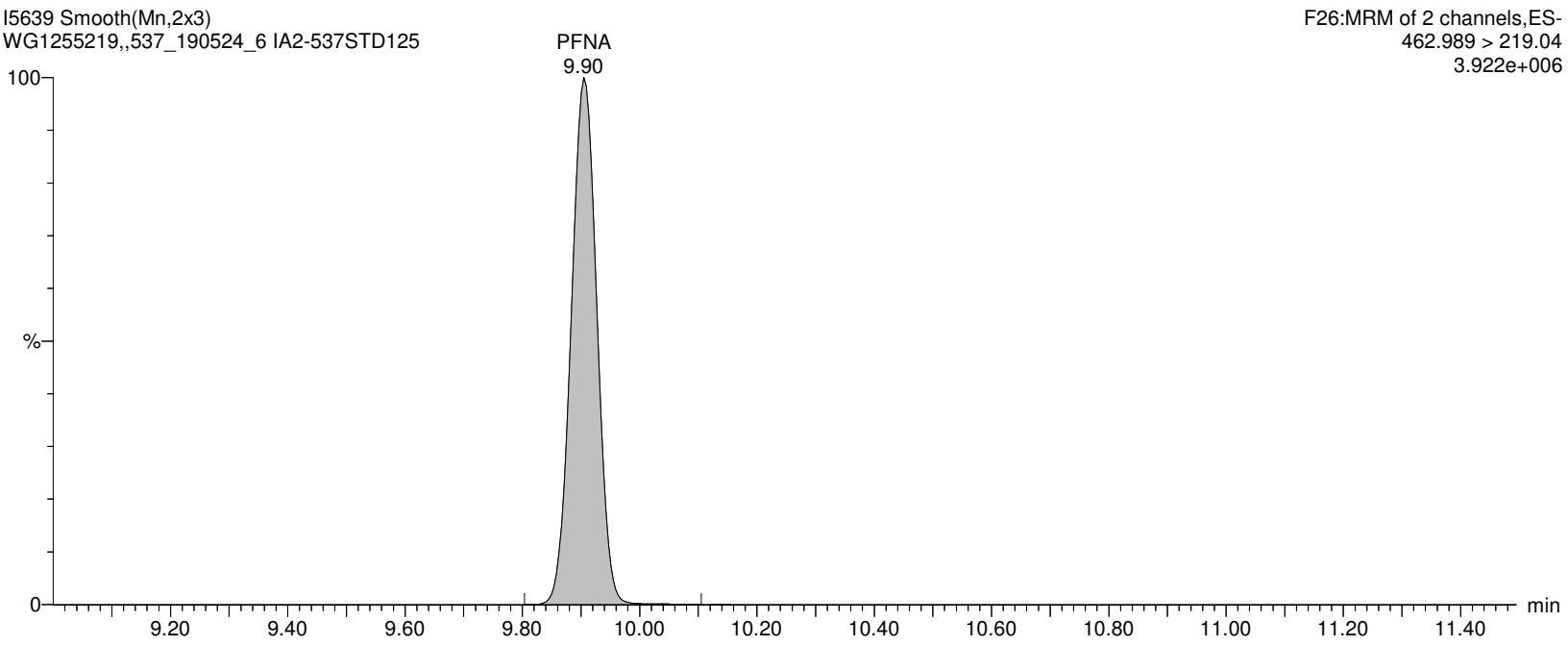
all concentration units in (ng/mL)

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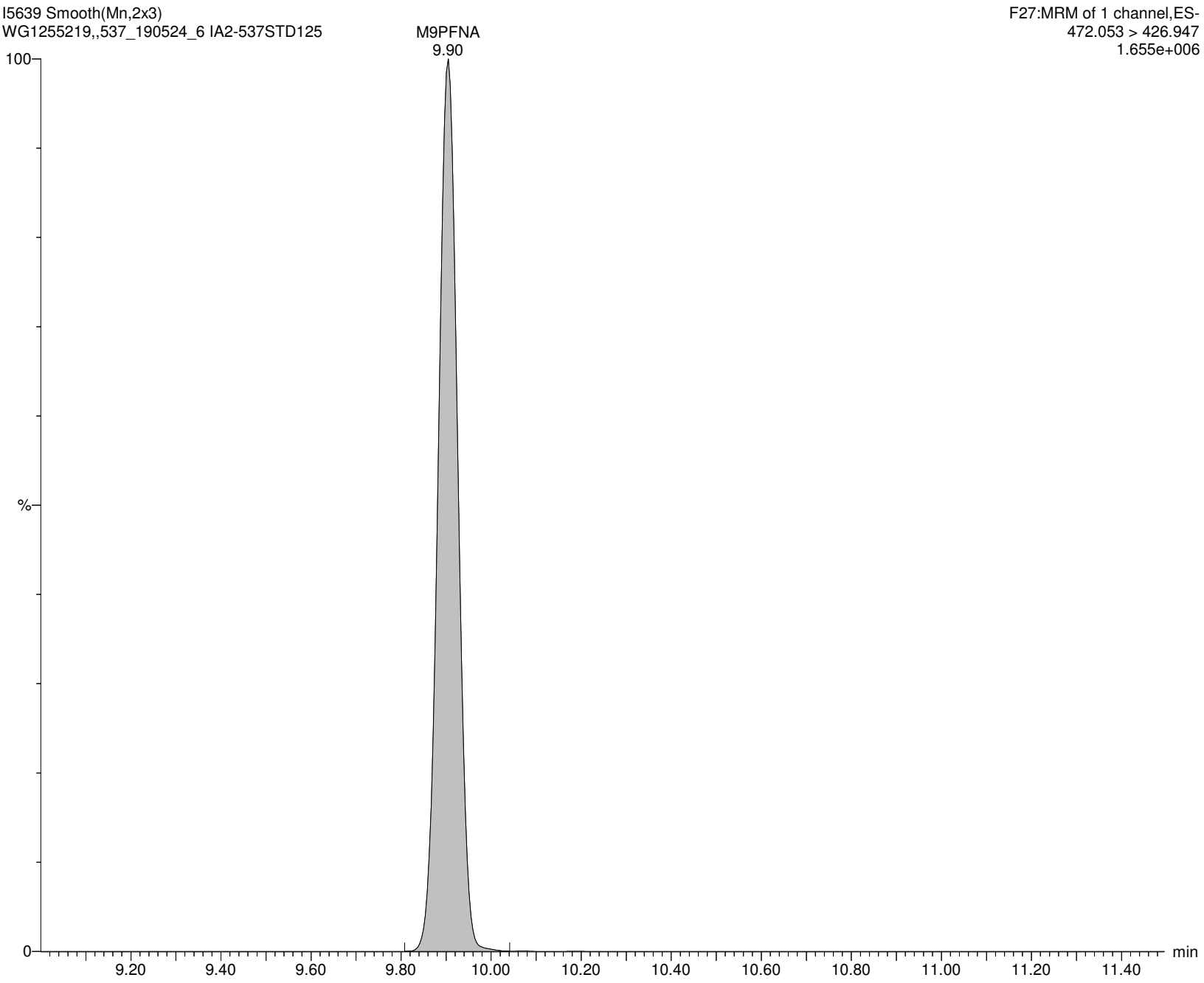


all concentration units in (ng/mL)

Alpha Analytical Inc.
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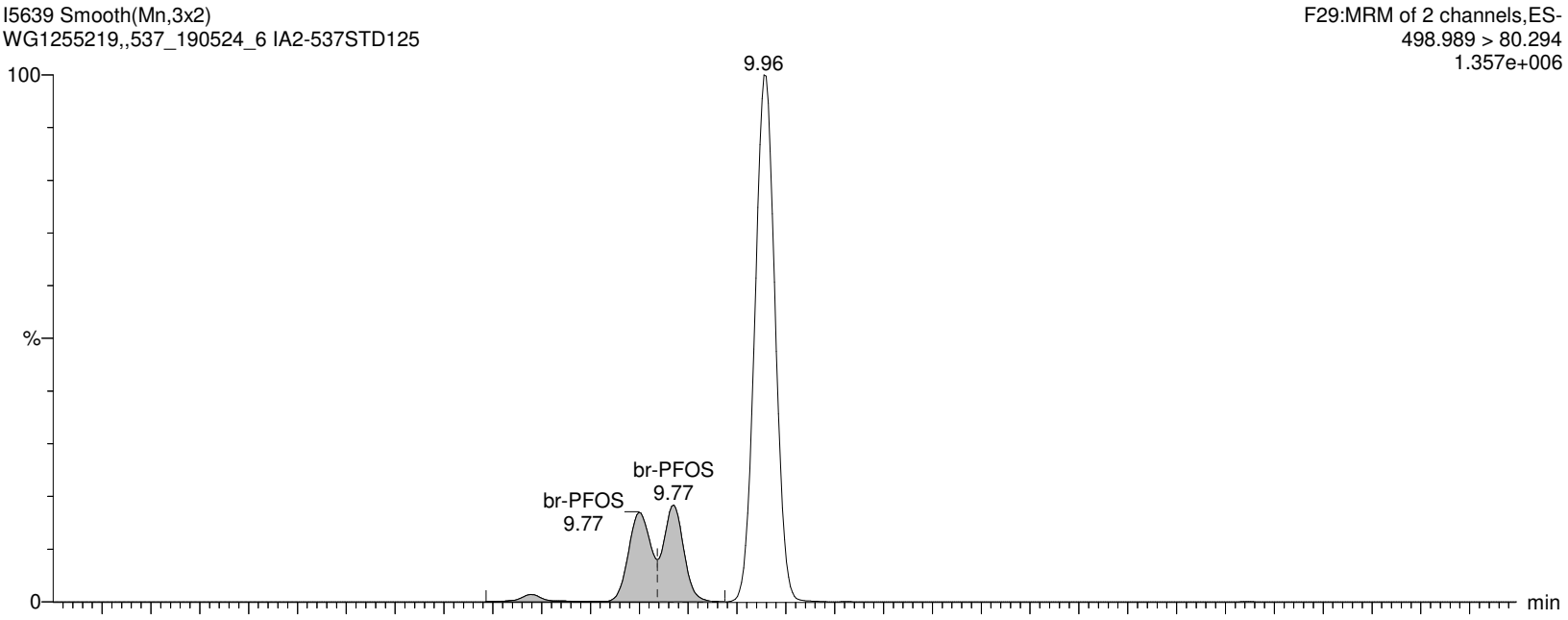


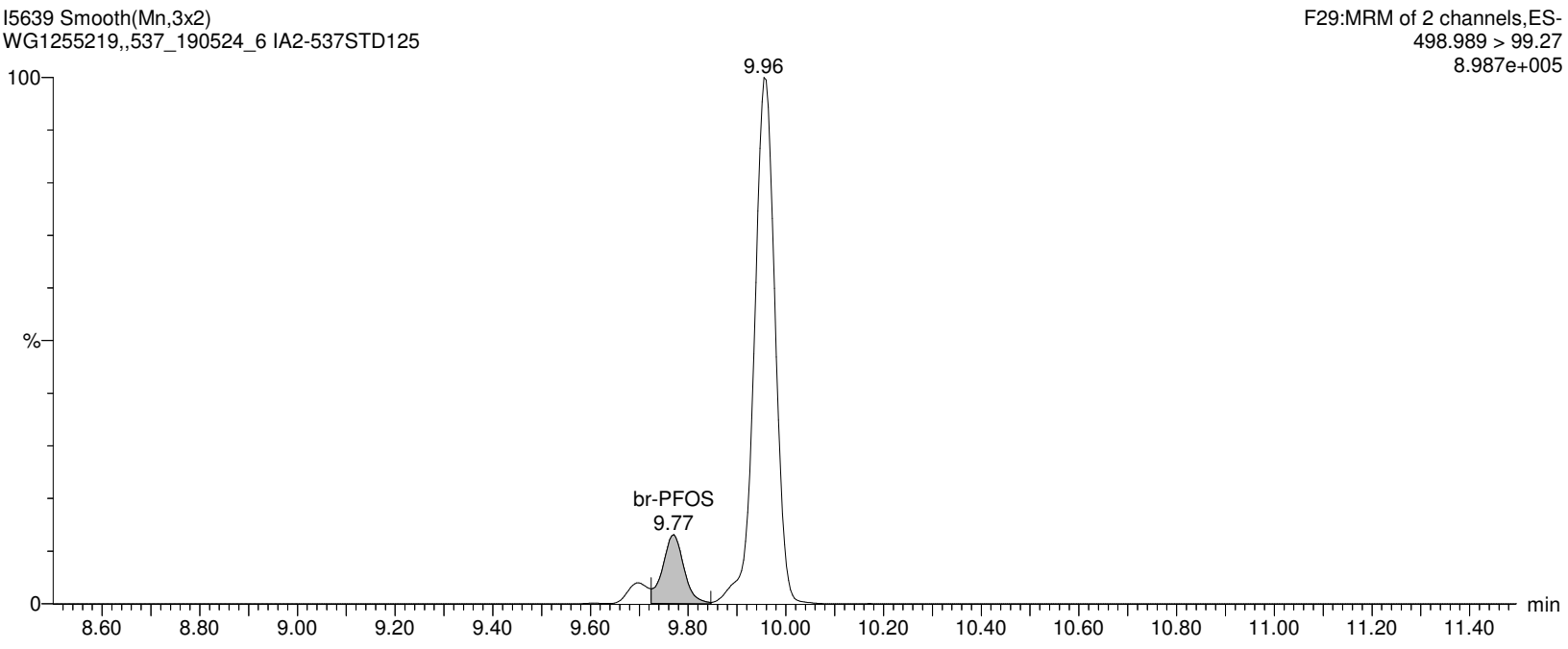
all concentration units in (ng/mL)

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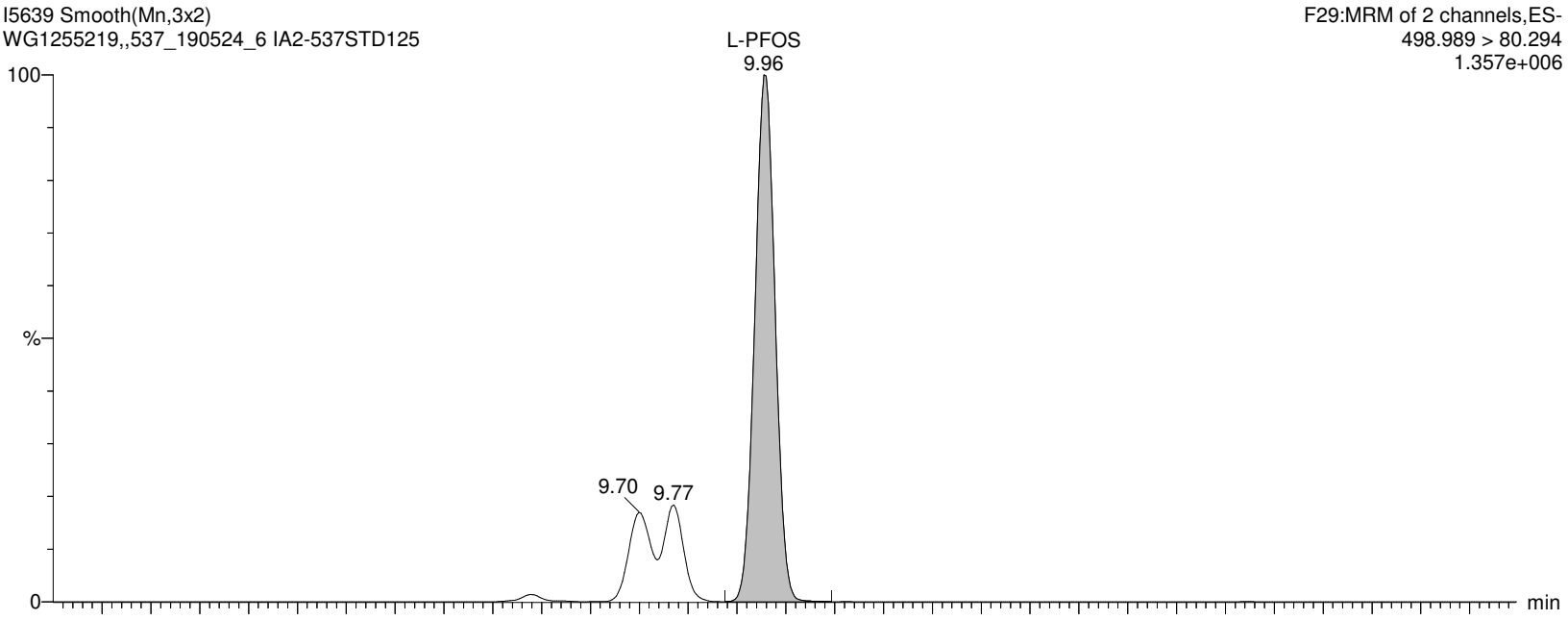


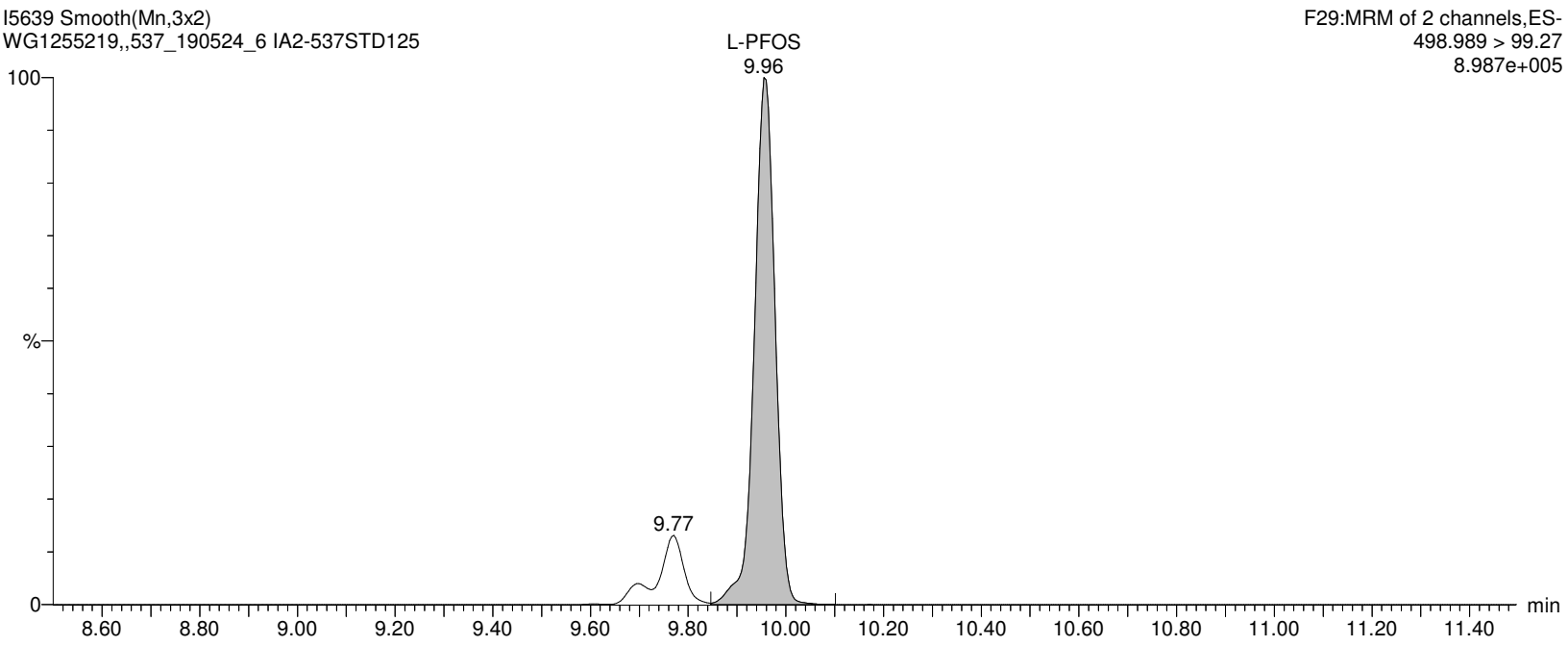
all concentration units in (ng/mL)

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L-PFOS



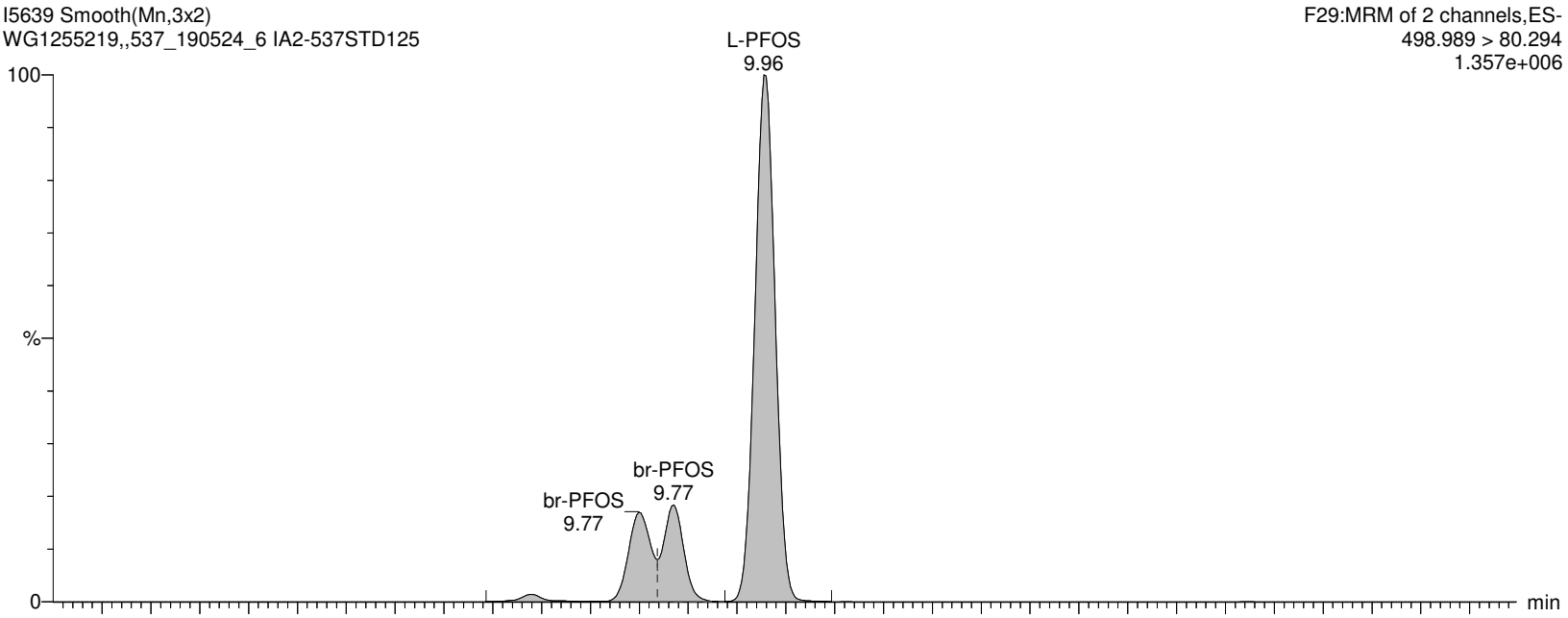


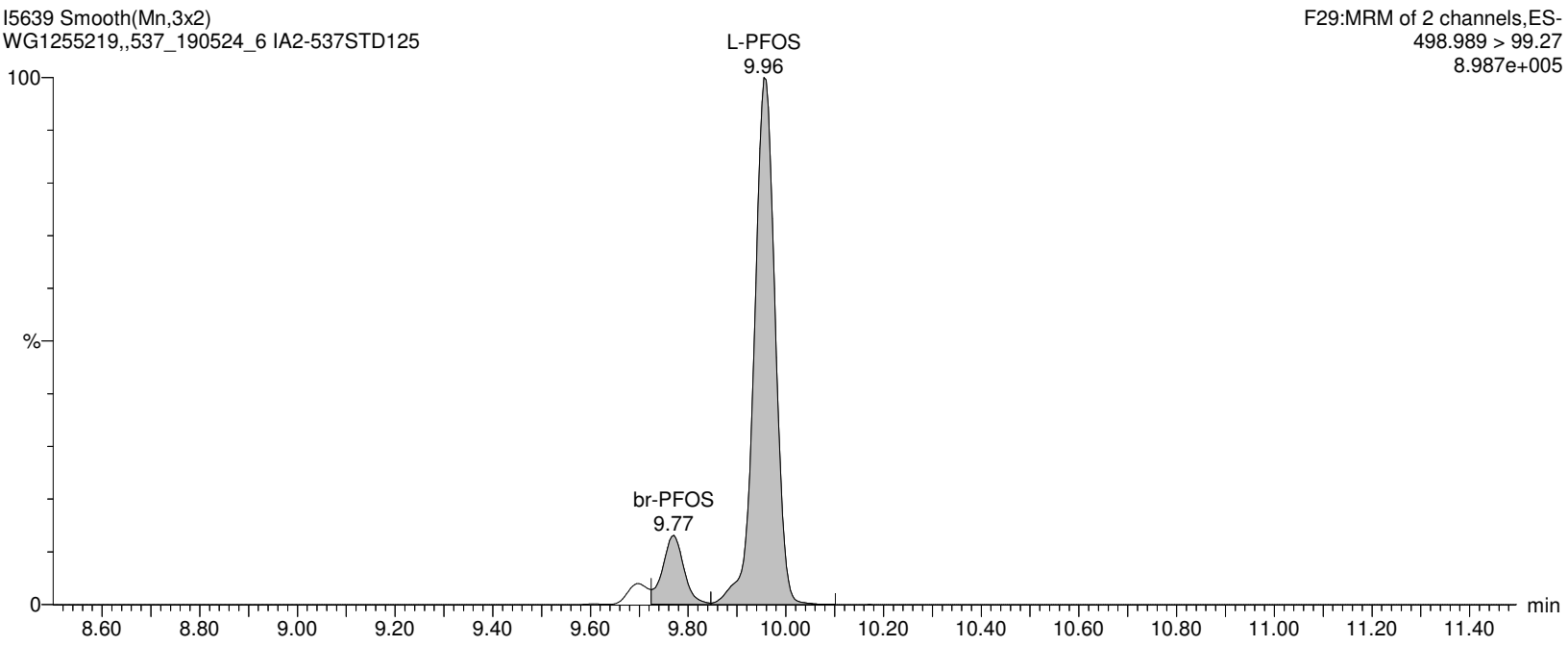
all concentration units in (ng/mL)

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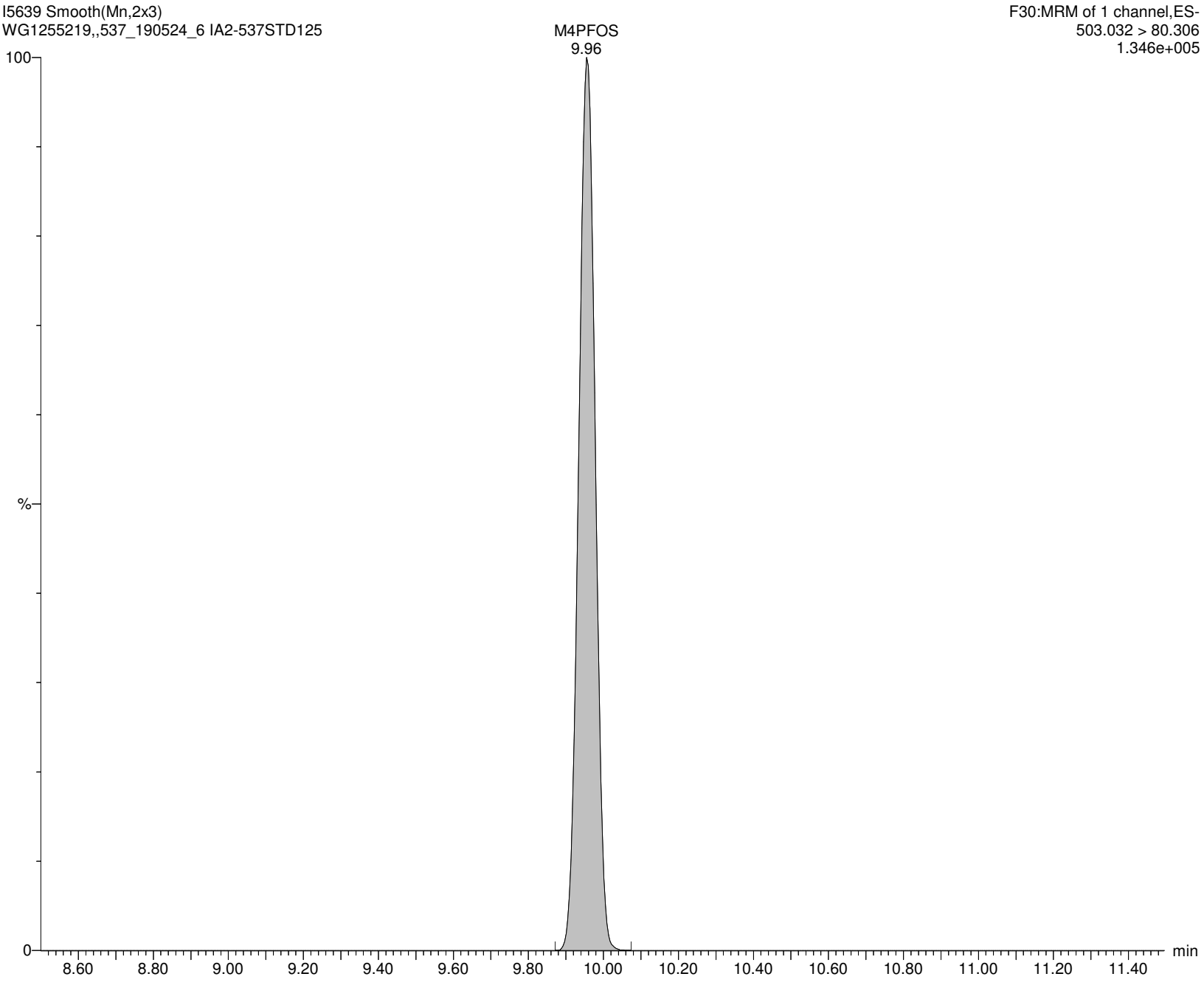


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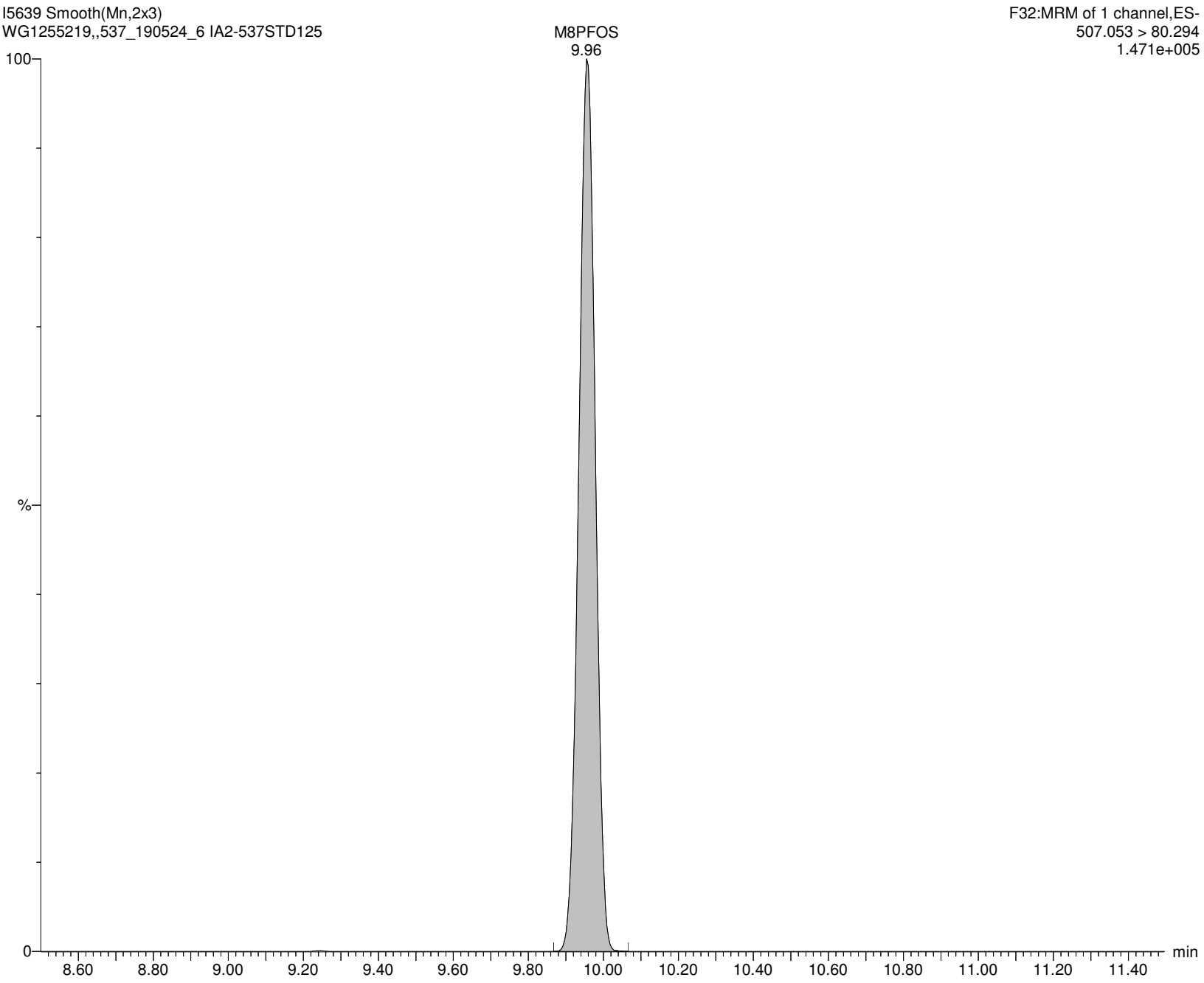


all concentration units in (ng/mL)

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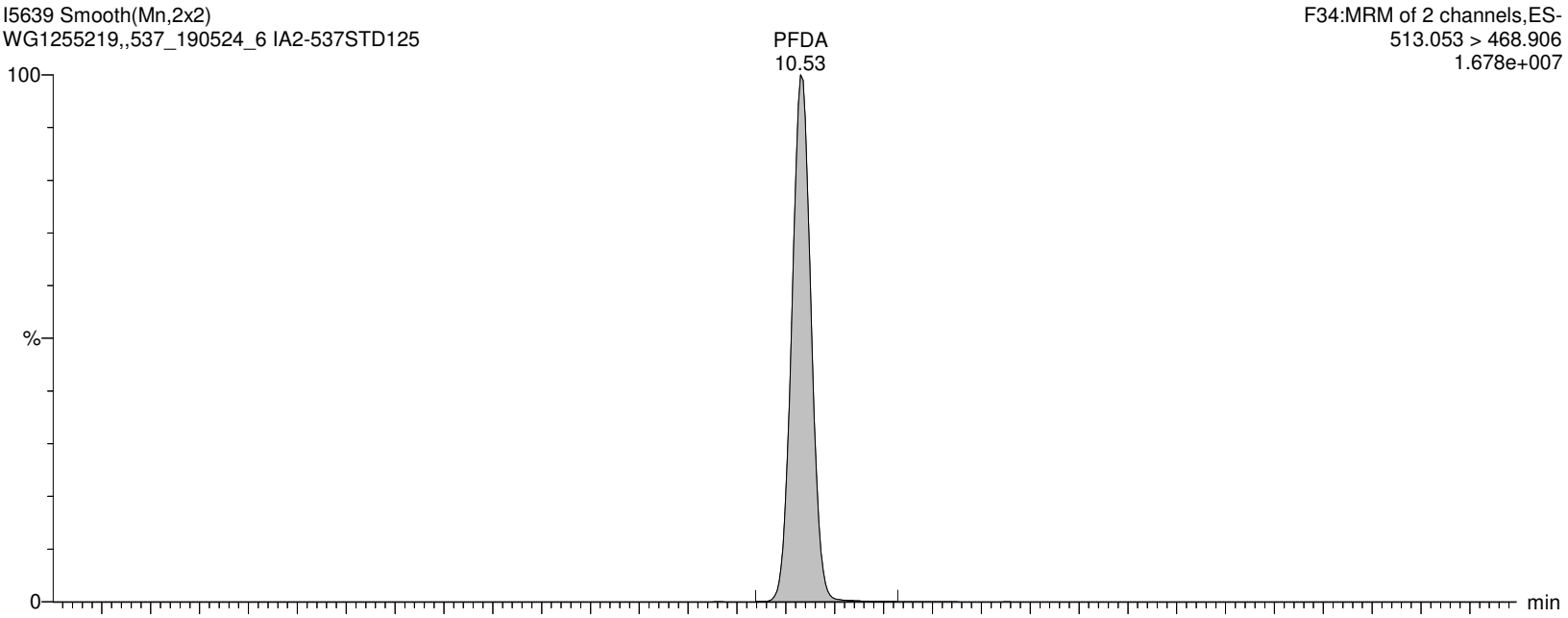


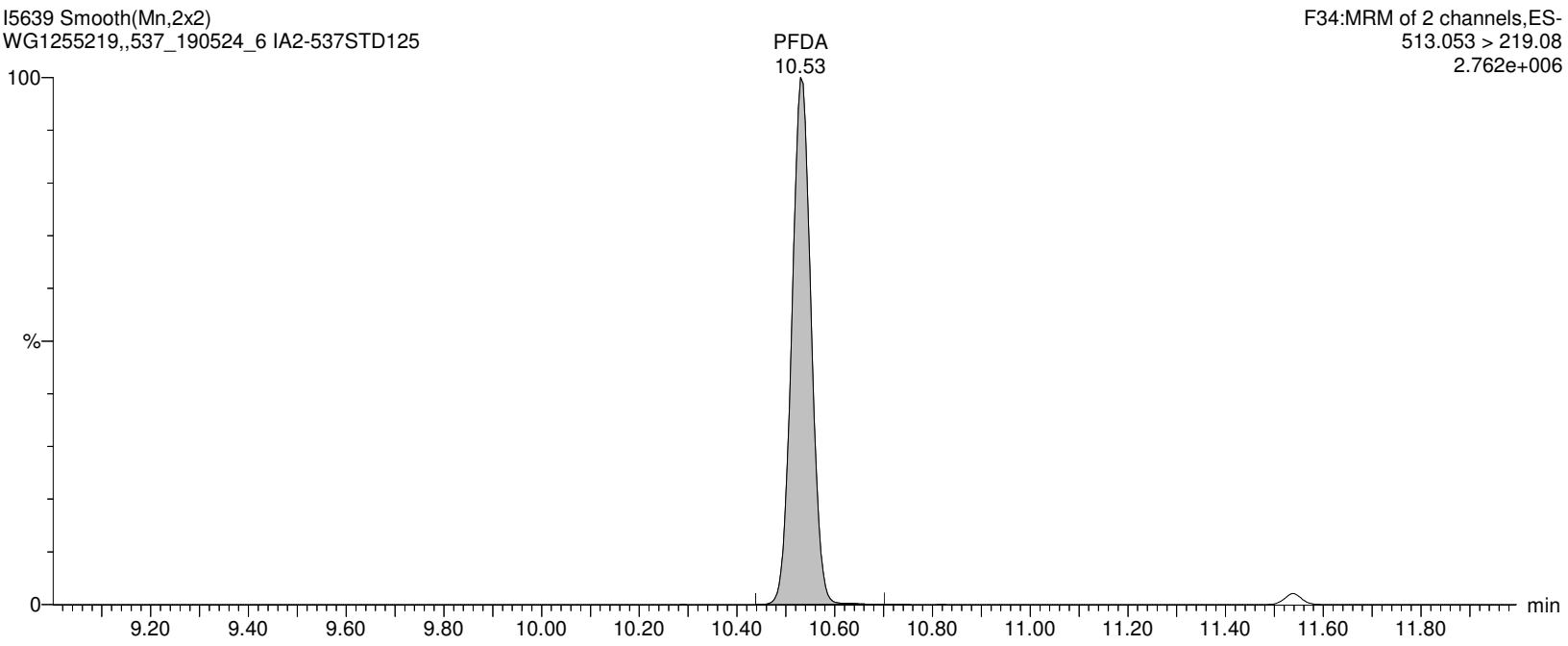
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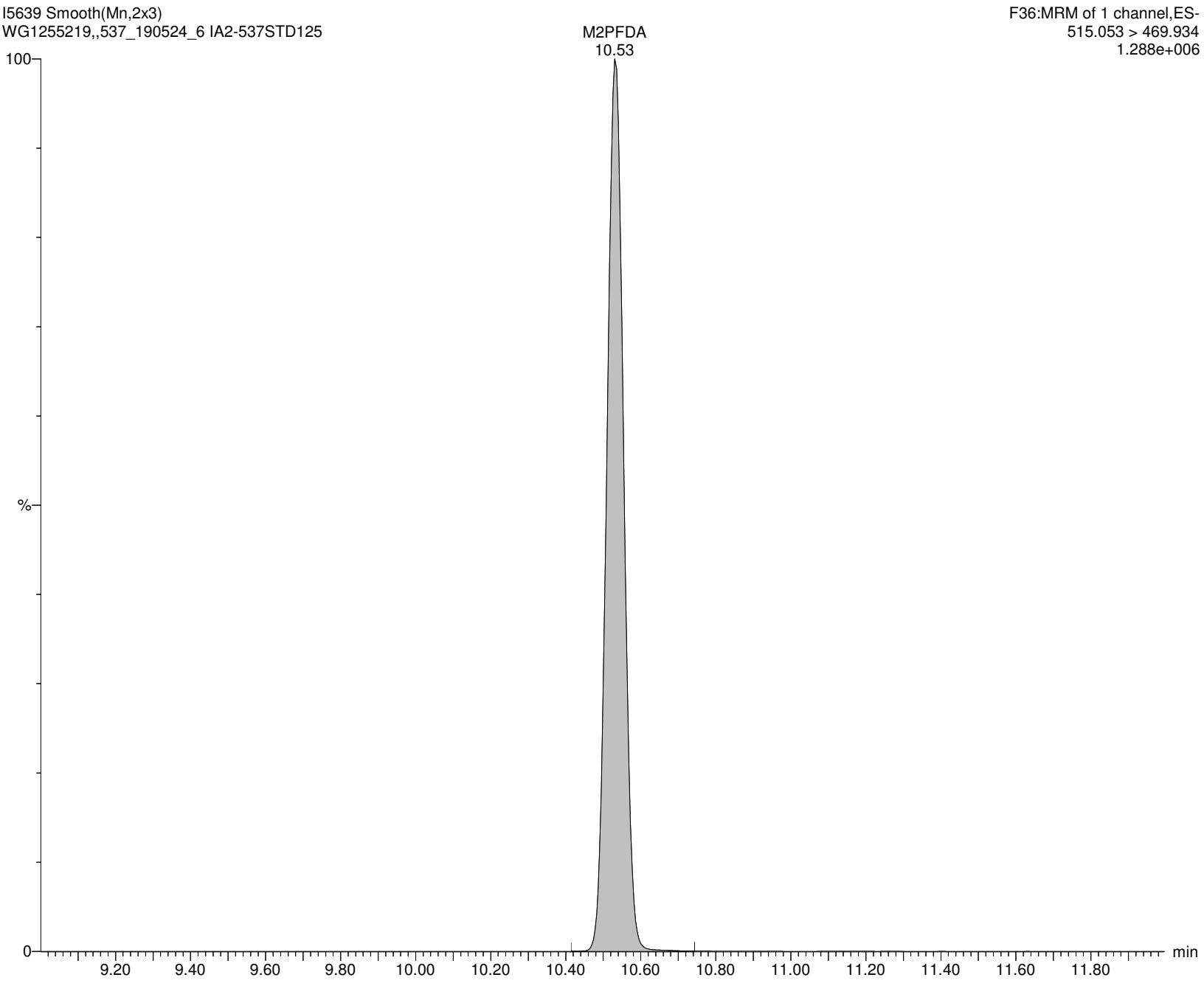


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:39 Eastern Daylight Time

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ID: IA2-537STD125
Date: 01-Jul-2019
Time: 19:20:11
Description: WG1255219,,537_190524_6
User: LCMS02:JW
Vial: 1:A,7
Instrument: XEVO-TQSmicro#QEB0050
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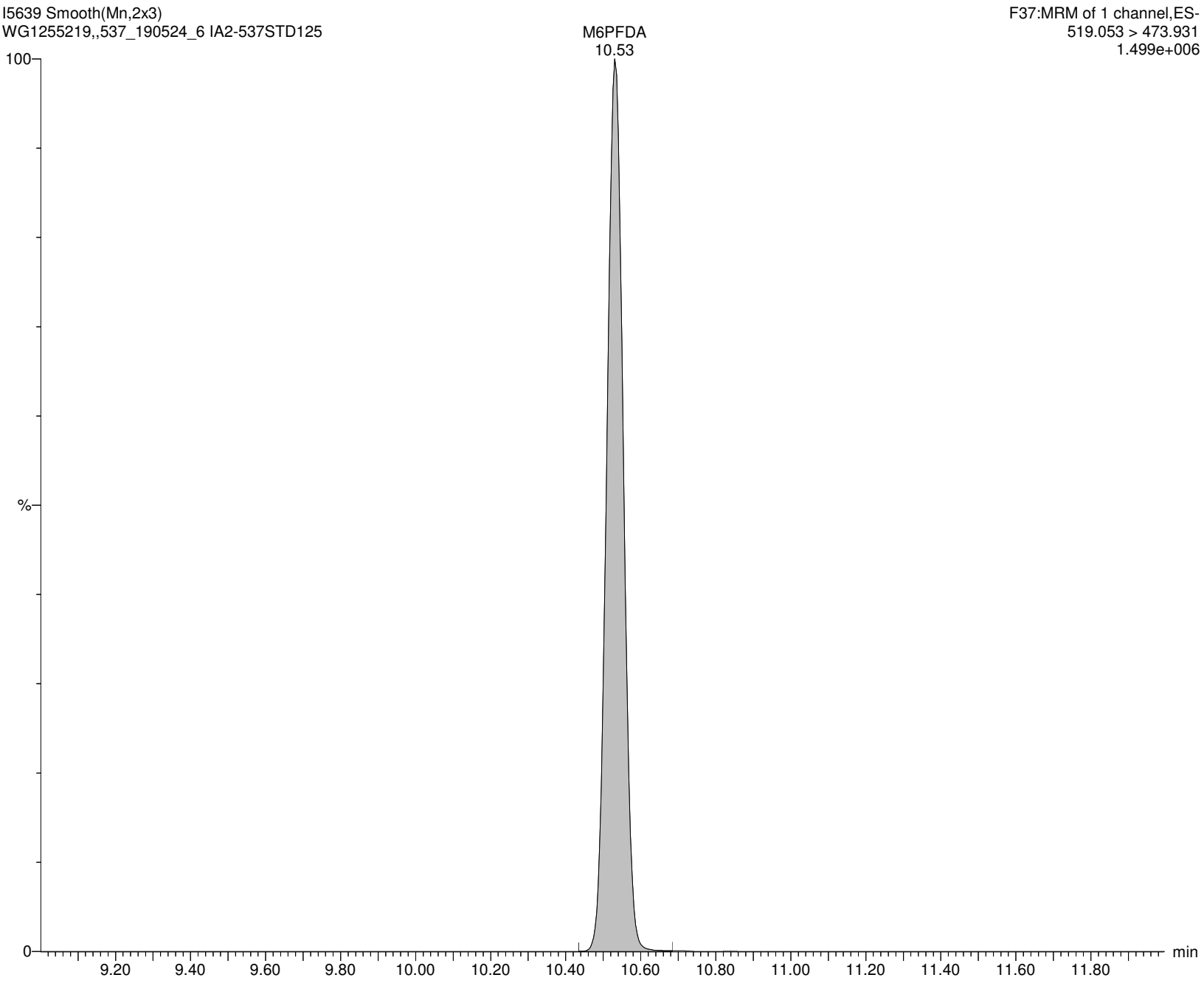


all concentration units in (ng/mL)

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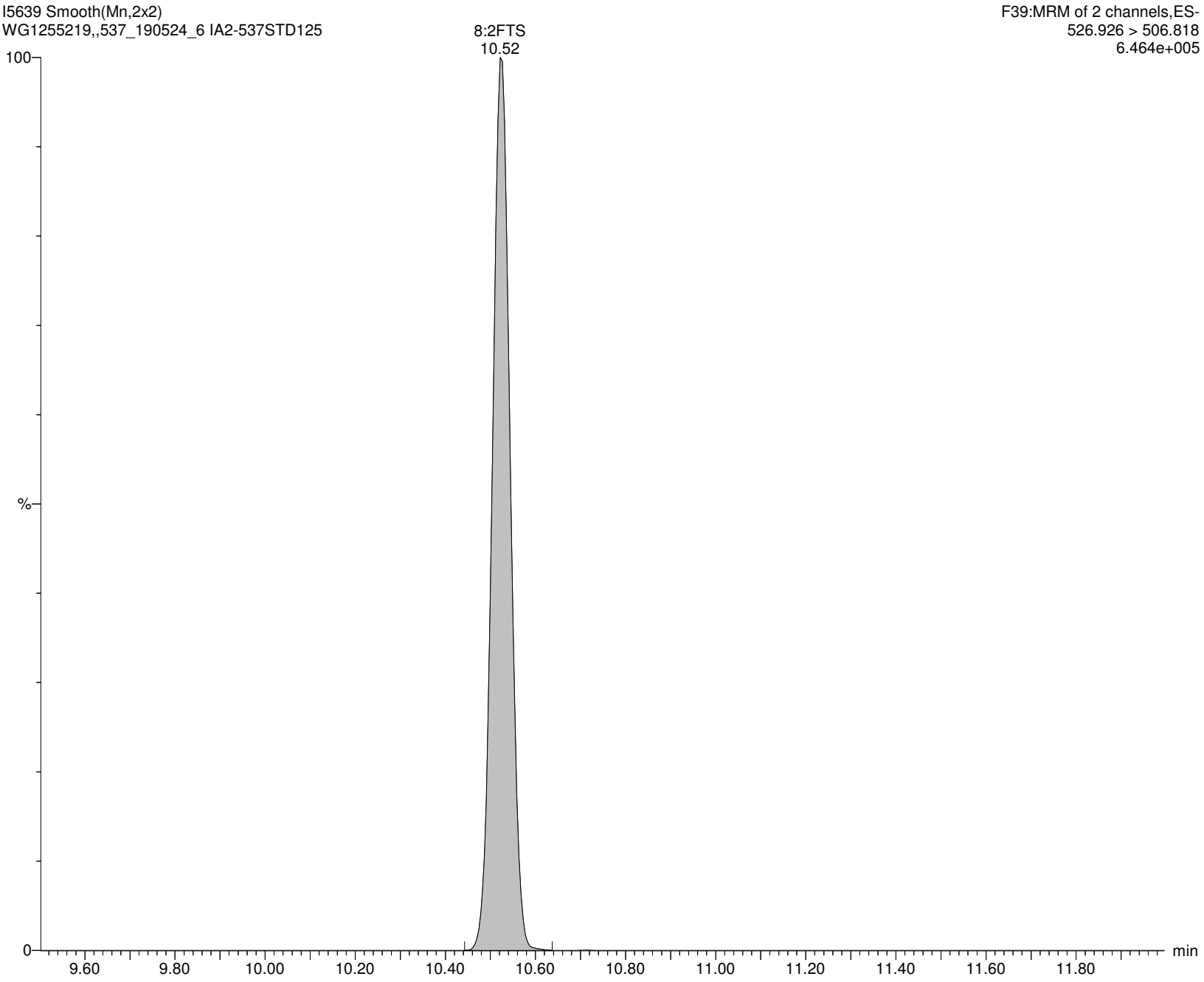


all concentration units in (ng/mL)

Alpha Analytical Inc.
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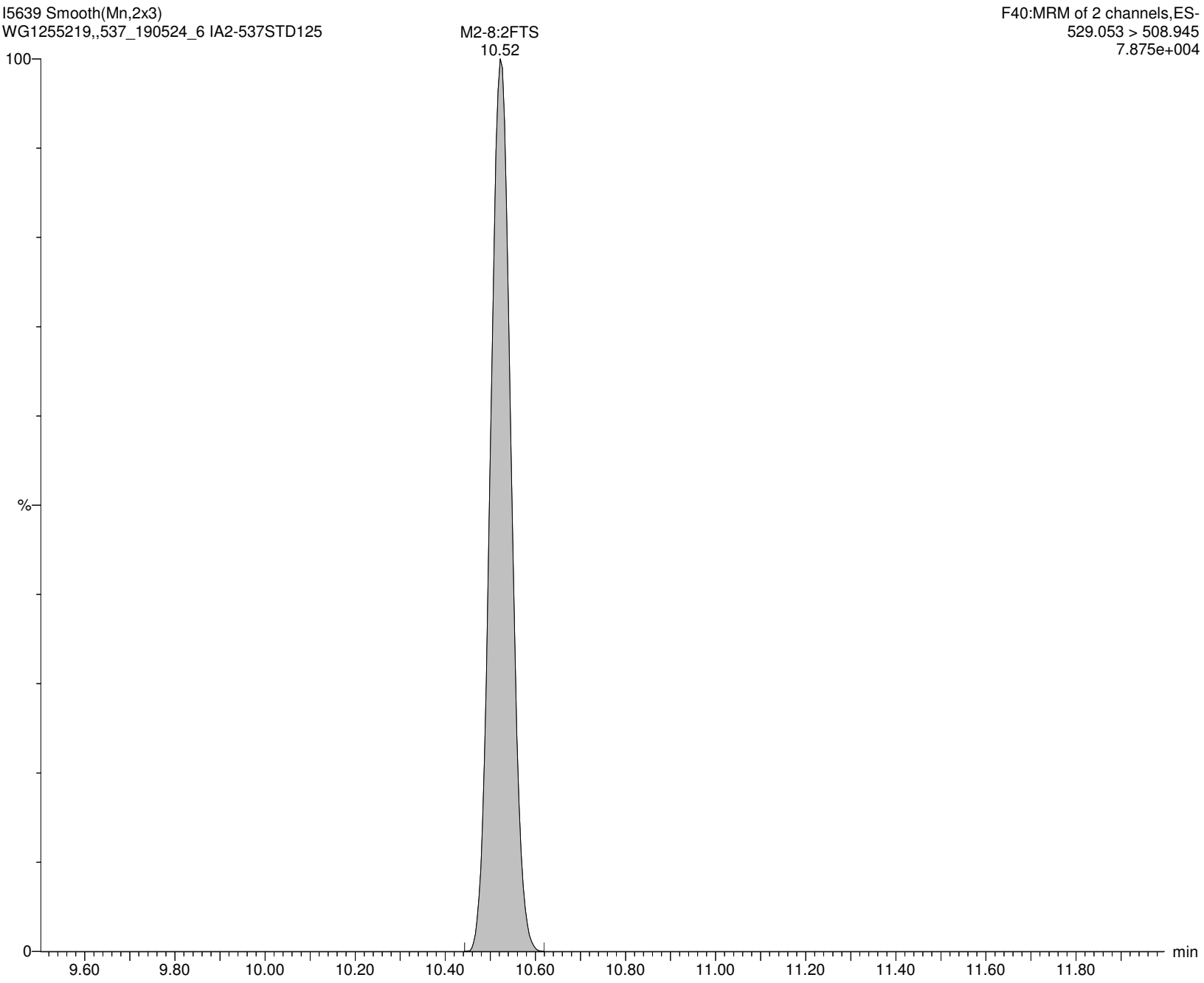


all concentration units in (ng/mL)

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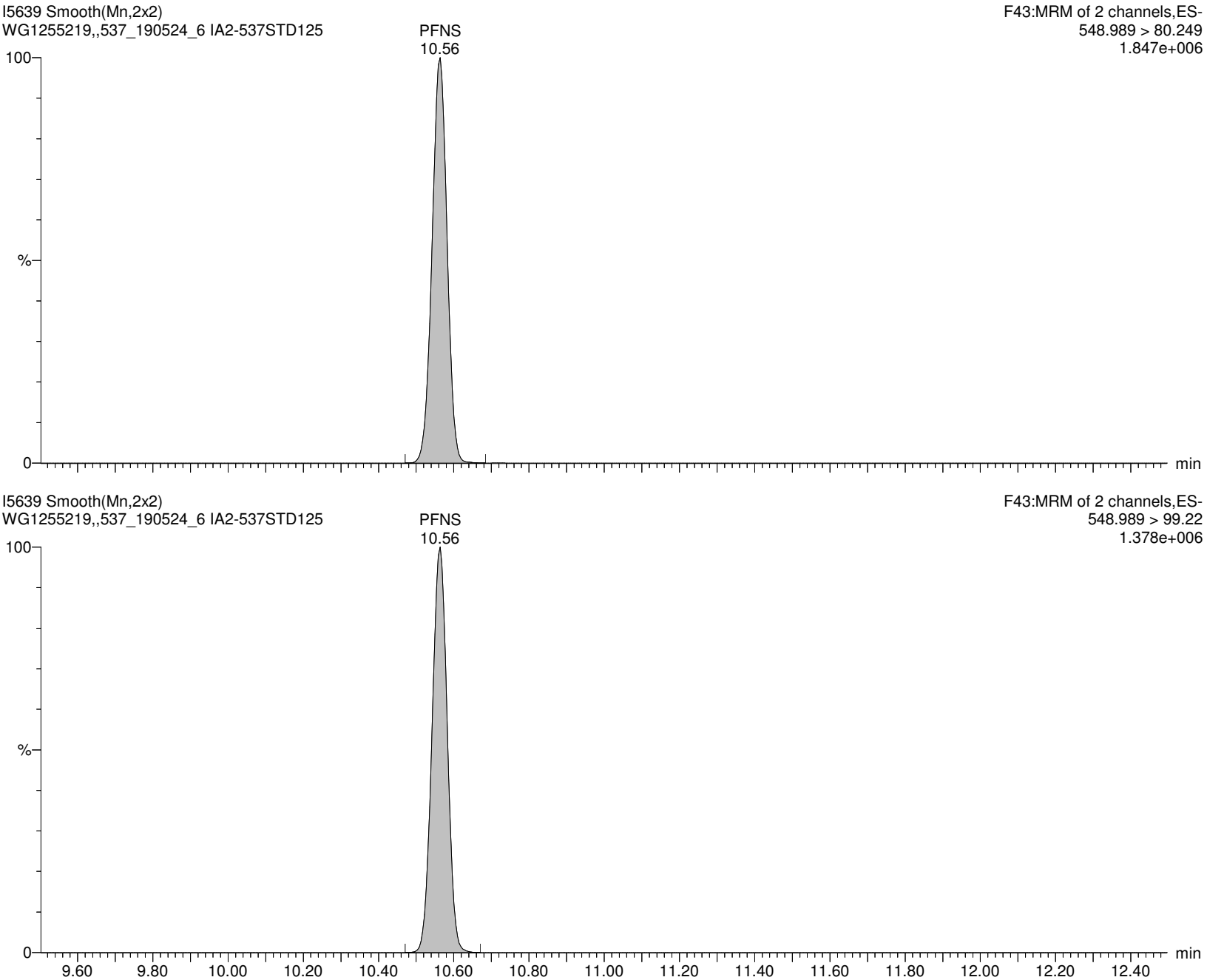


all concentration units in (ng/mL)

Alpha Analytical Inc.
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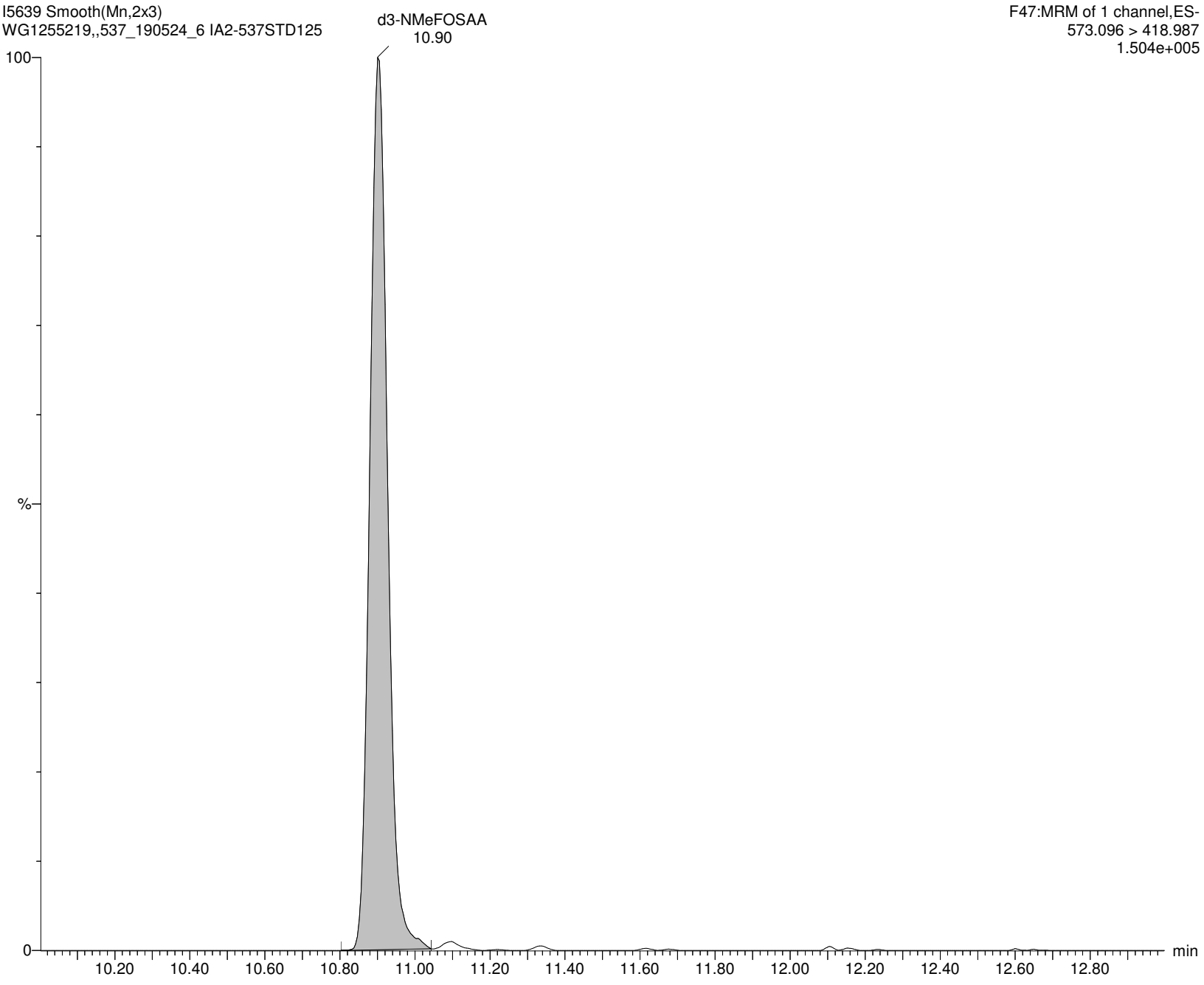


all concentration units in (ng/mL)

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d3-NMeFOSAA

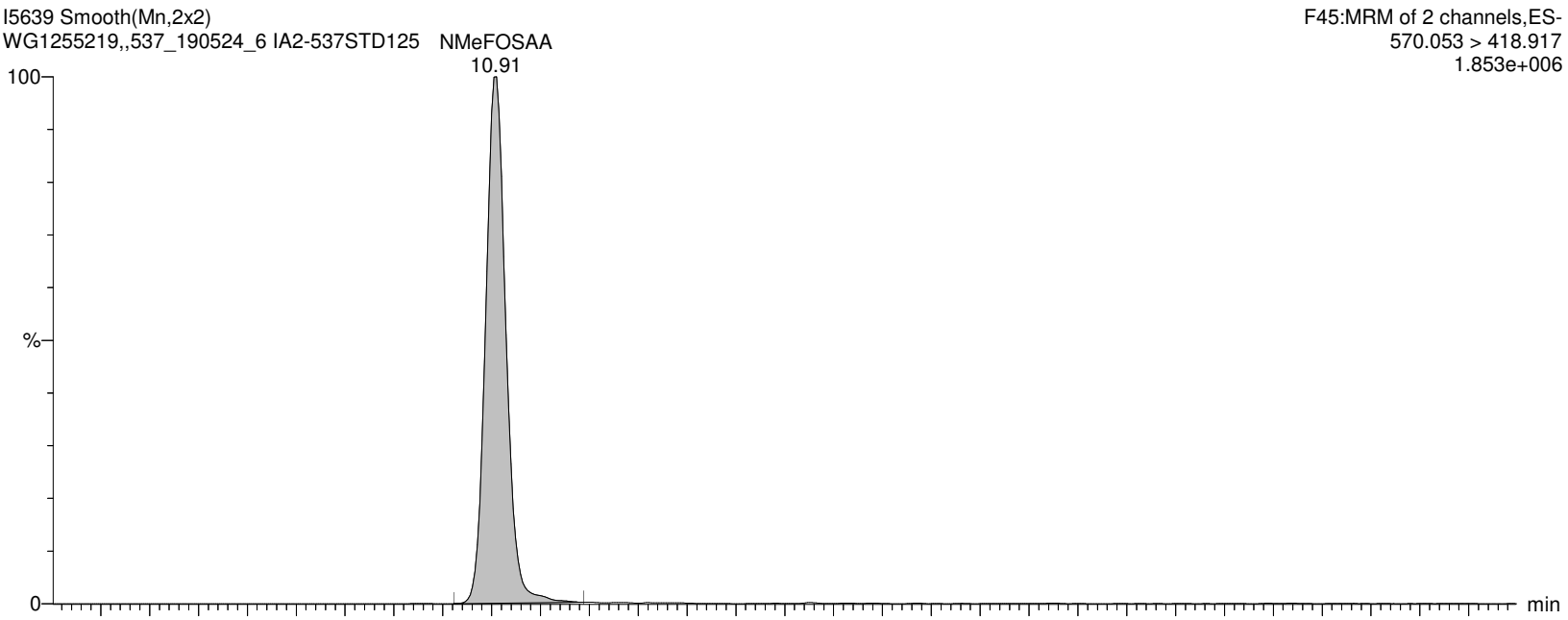


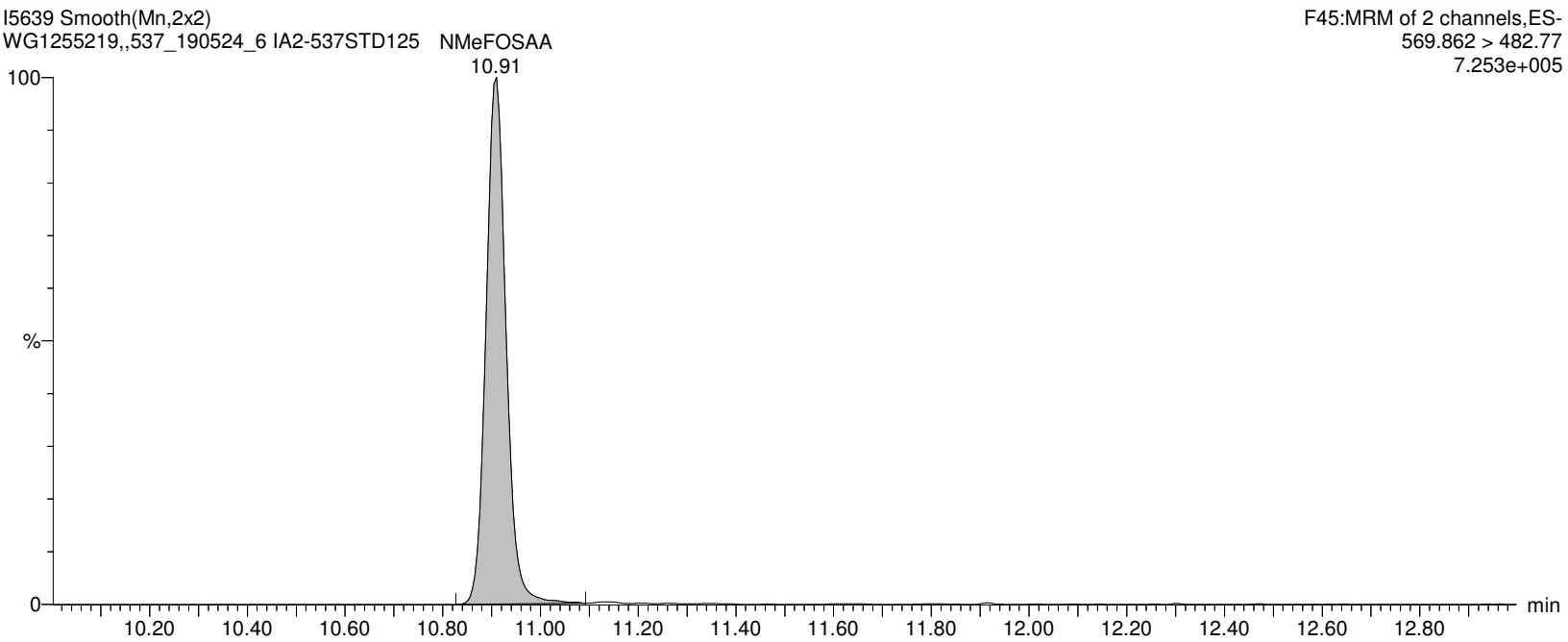
all concentration units in (ng/mL)

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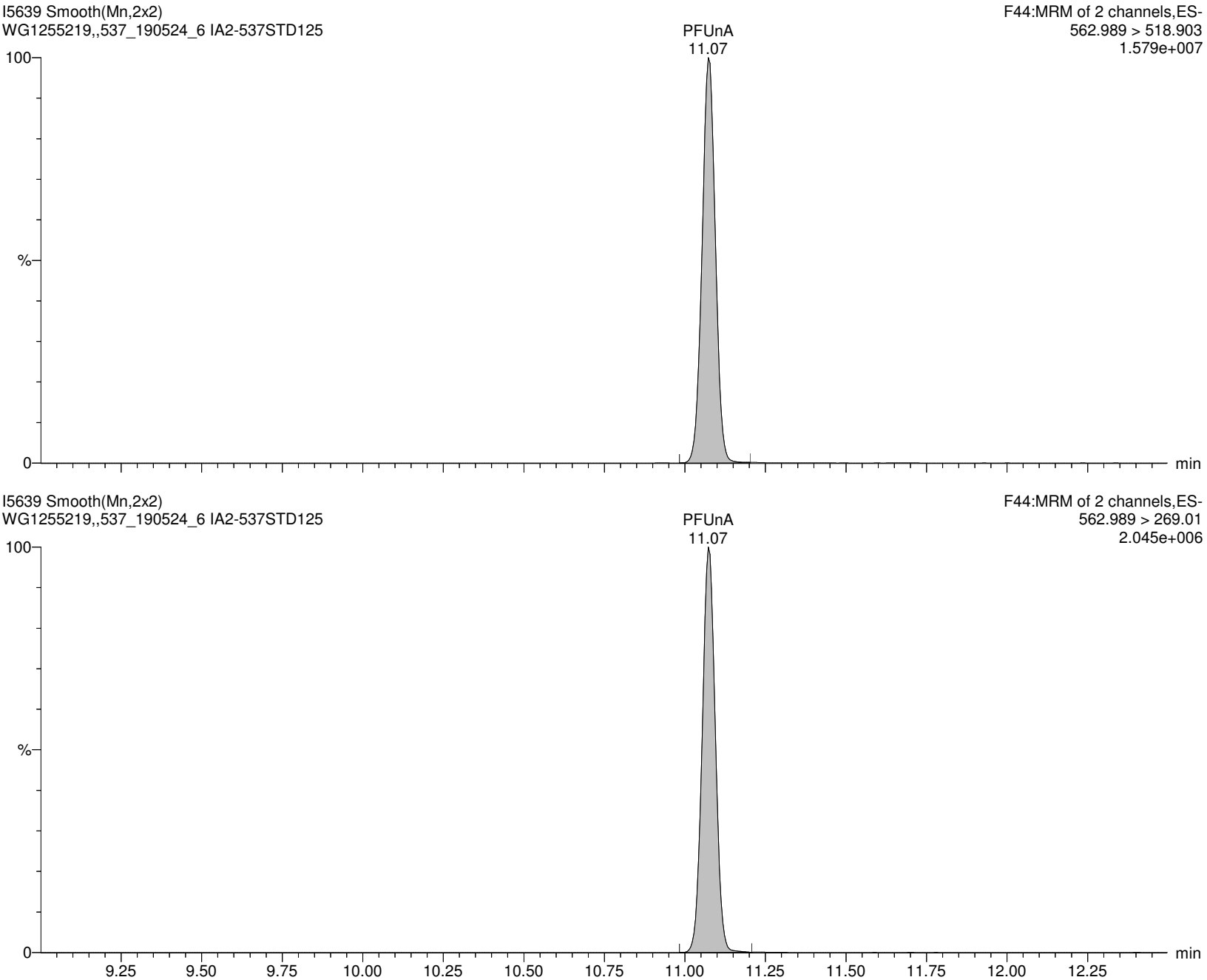


all concentration units in (ng/mL)

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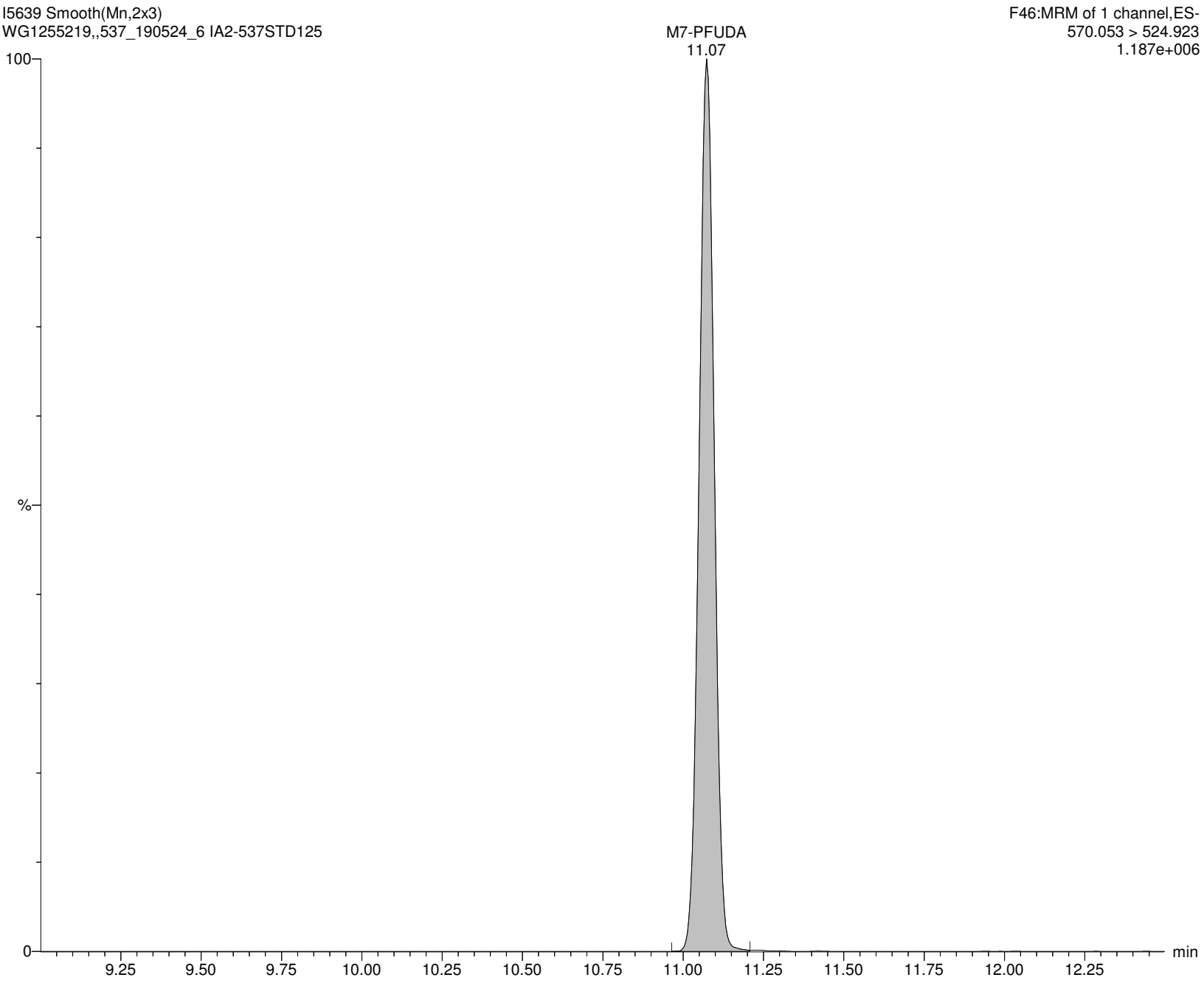


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
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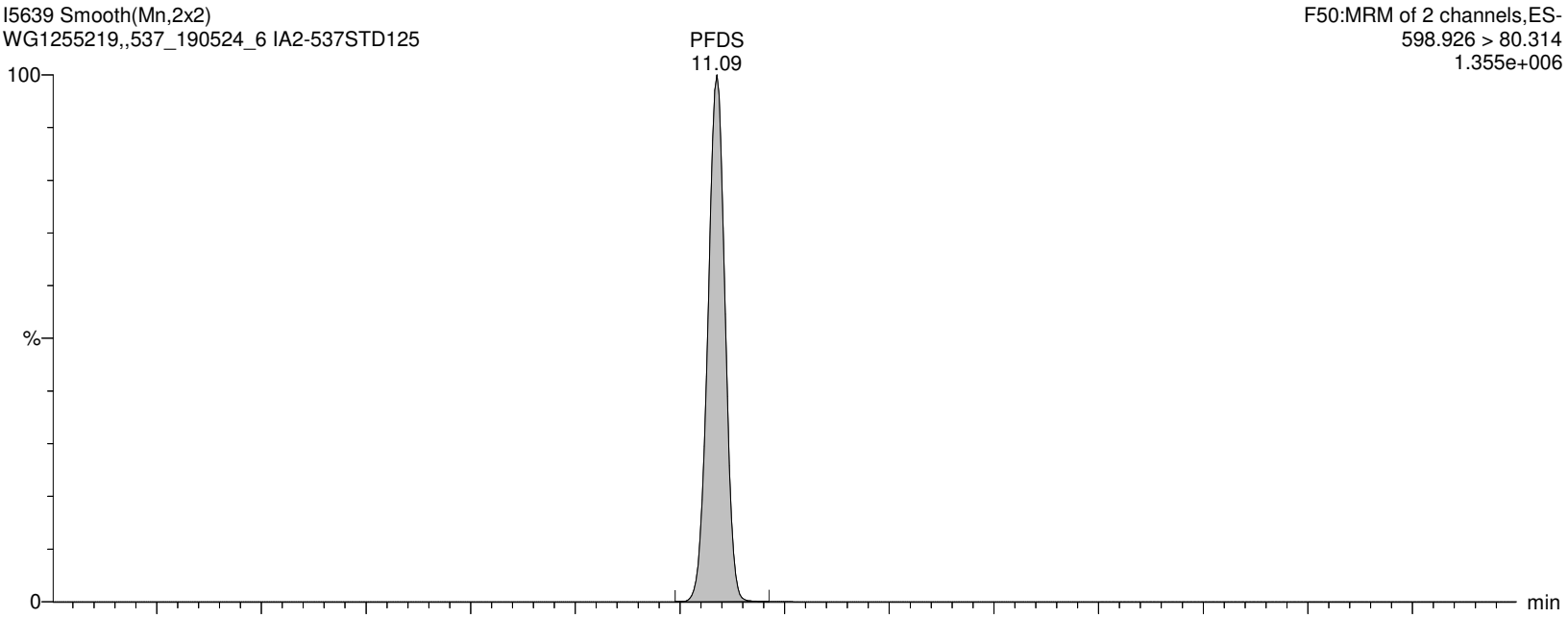


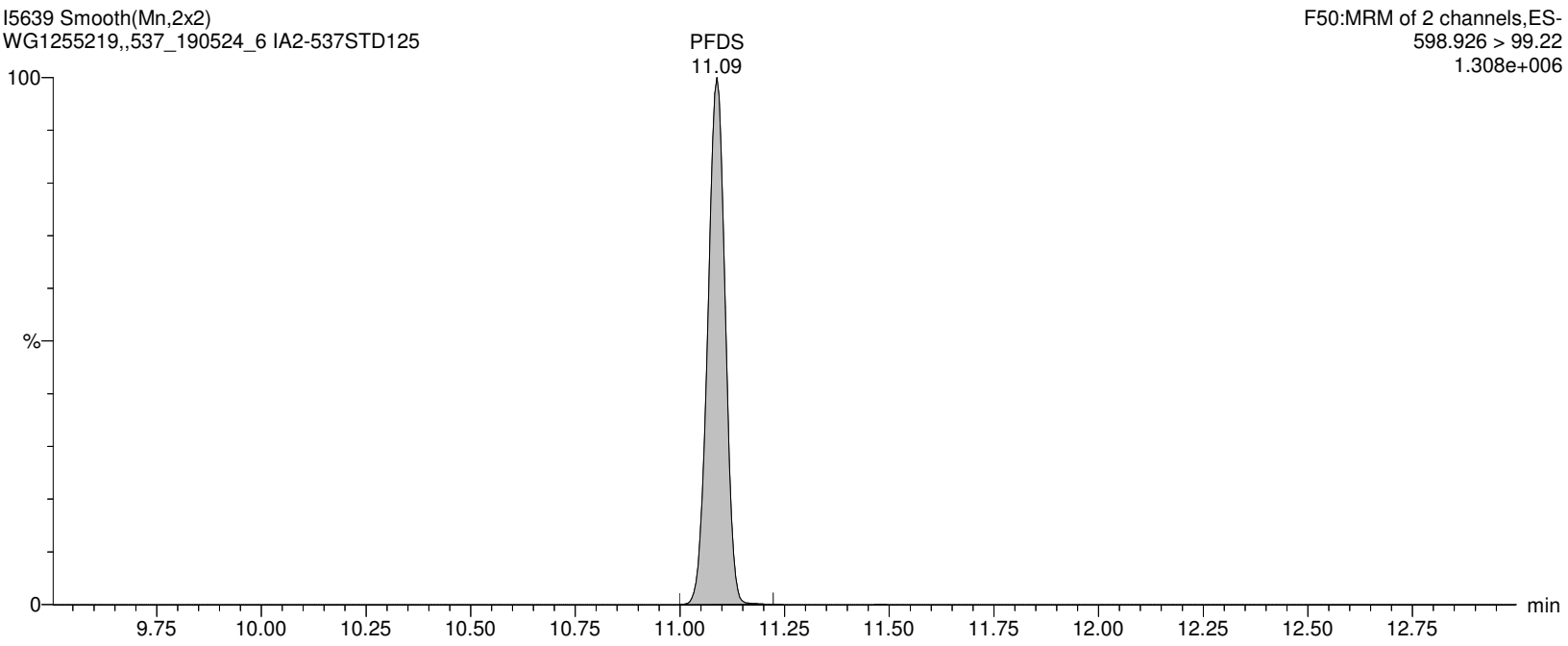
all concentration units in (ng/mL)

Alpha Analytical Inc.
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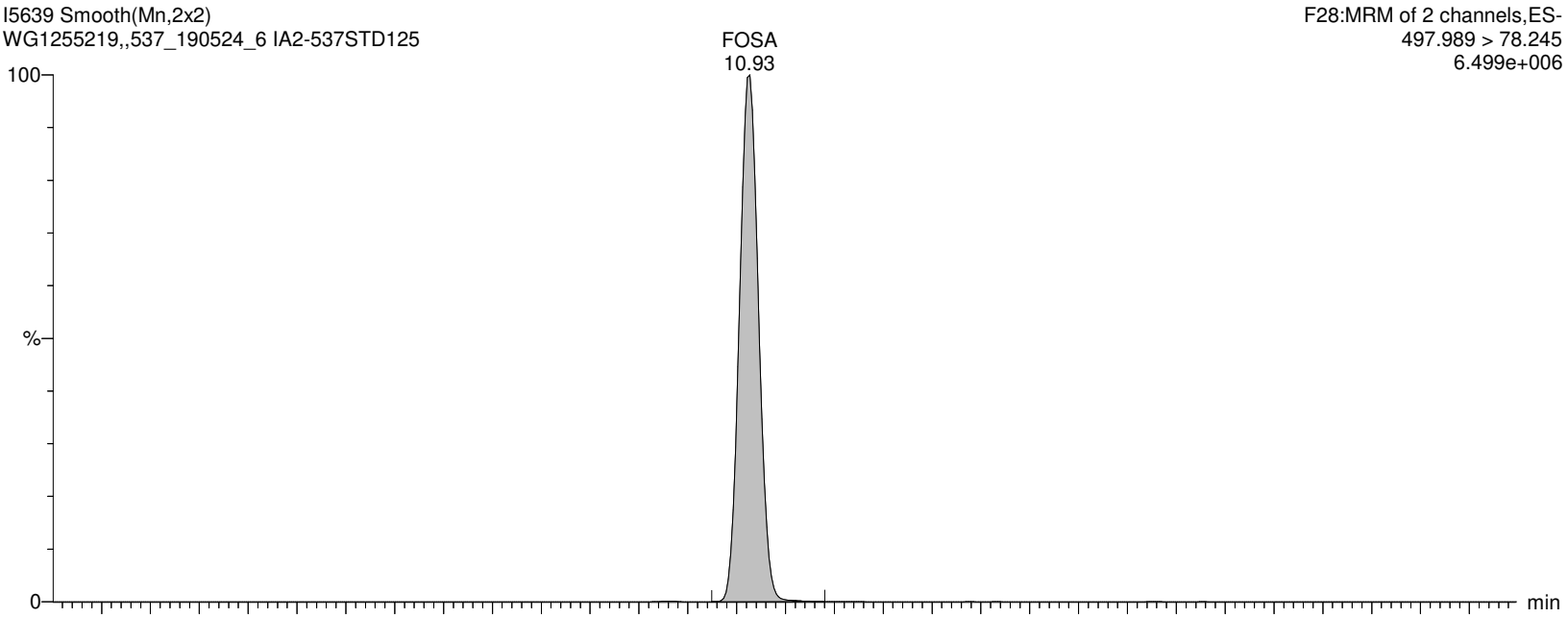


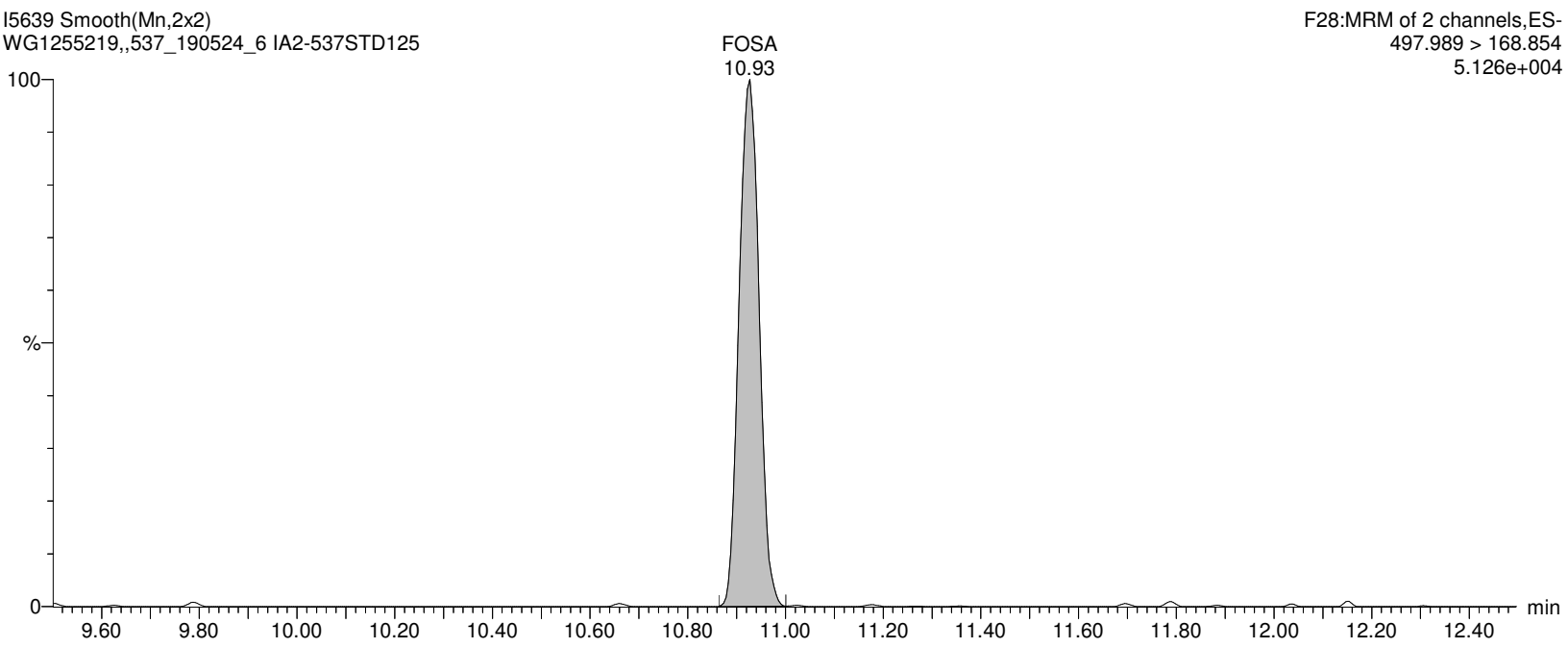
all concentration units in (ng/mL)

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FOSA



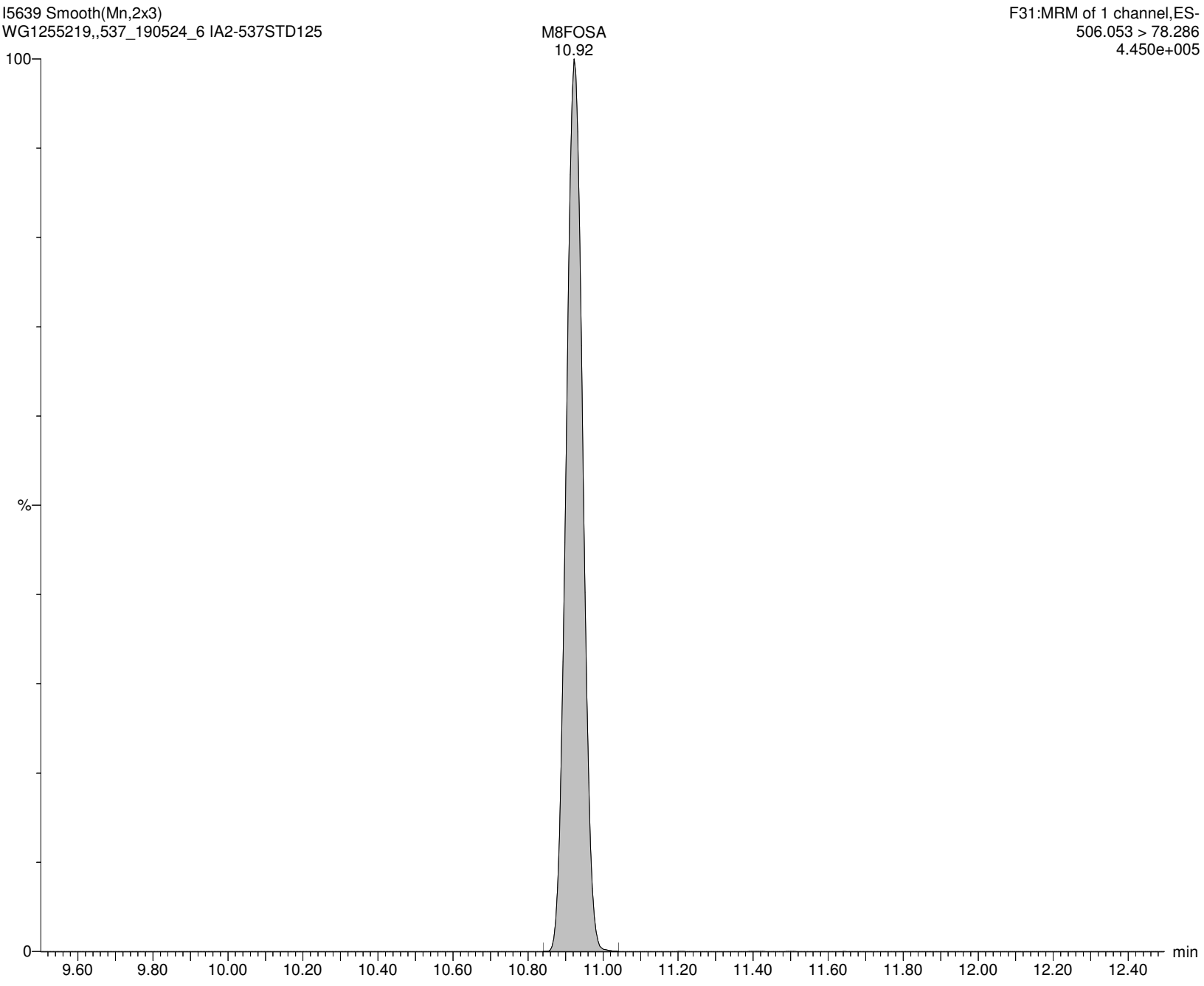


all concentration units in (ng/mL)

Alpha Analytical Inc.
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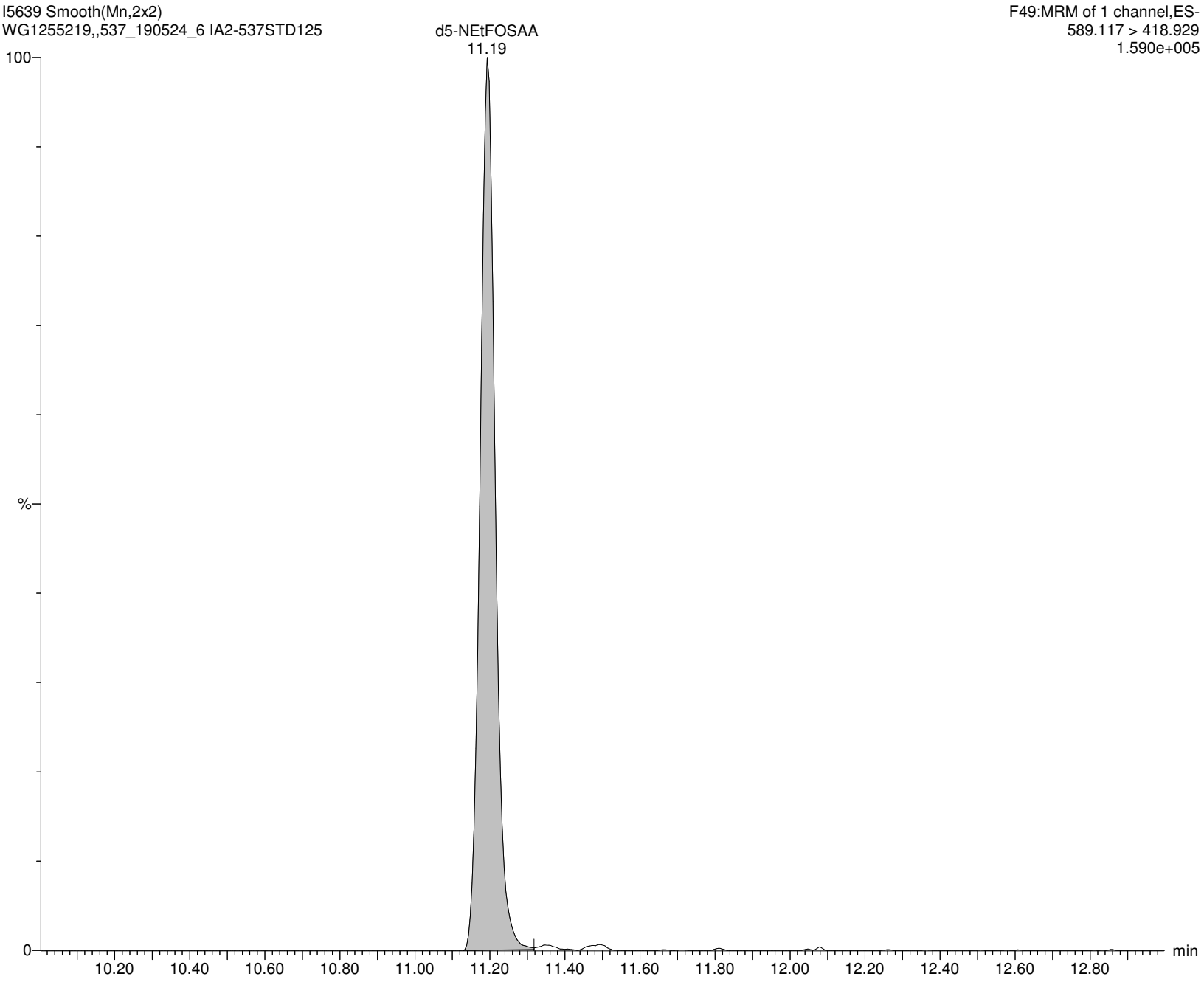


all concentration units in (ng/mL)

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d5-NEtFOSAA

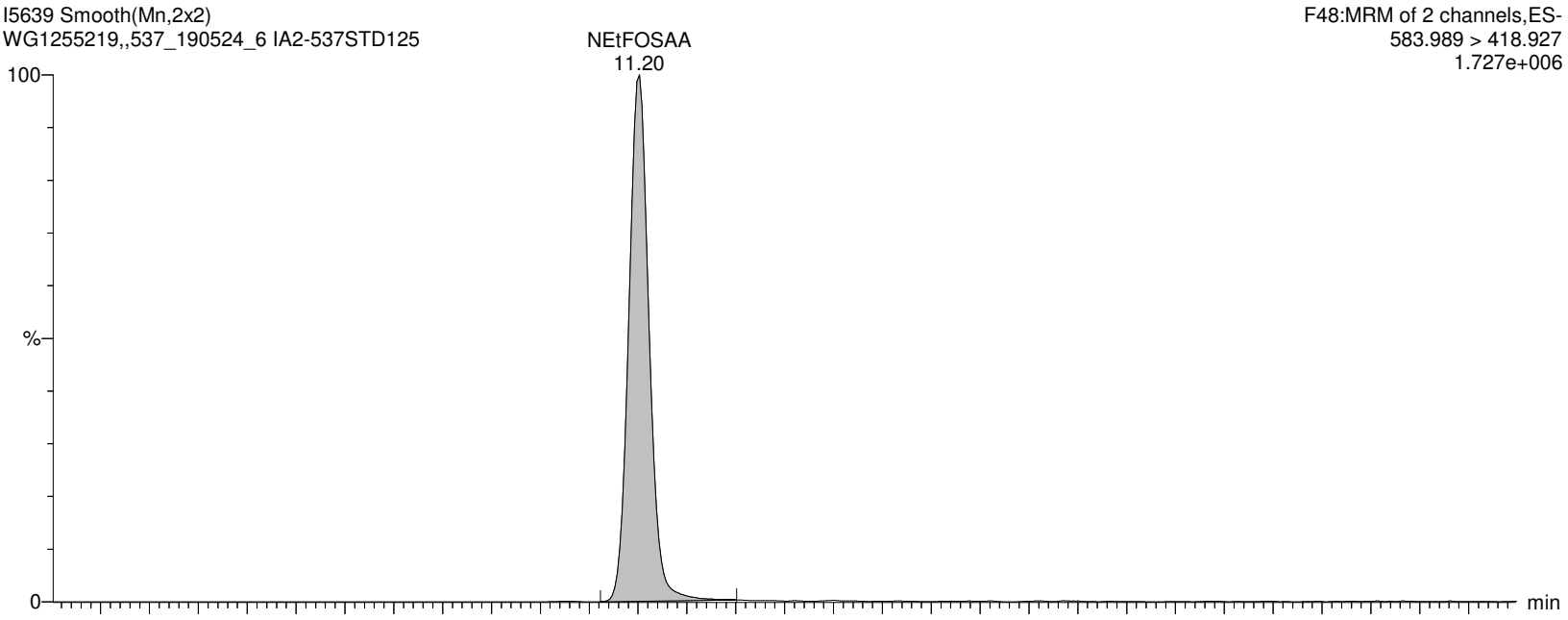


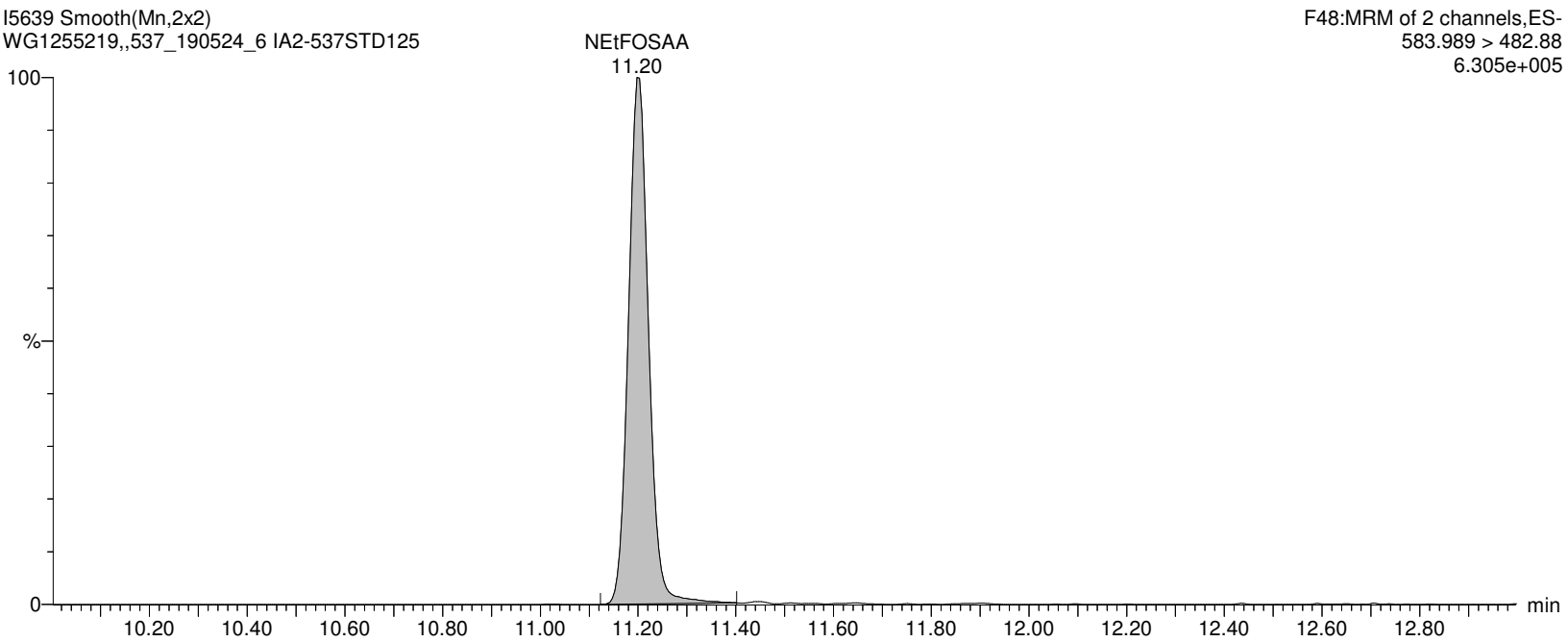
all concentration units in (ng/mL)

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NEtFOSAA



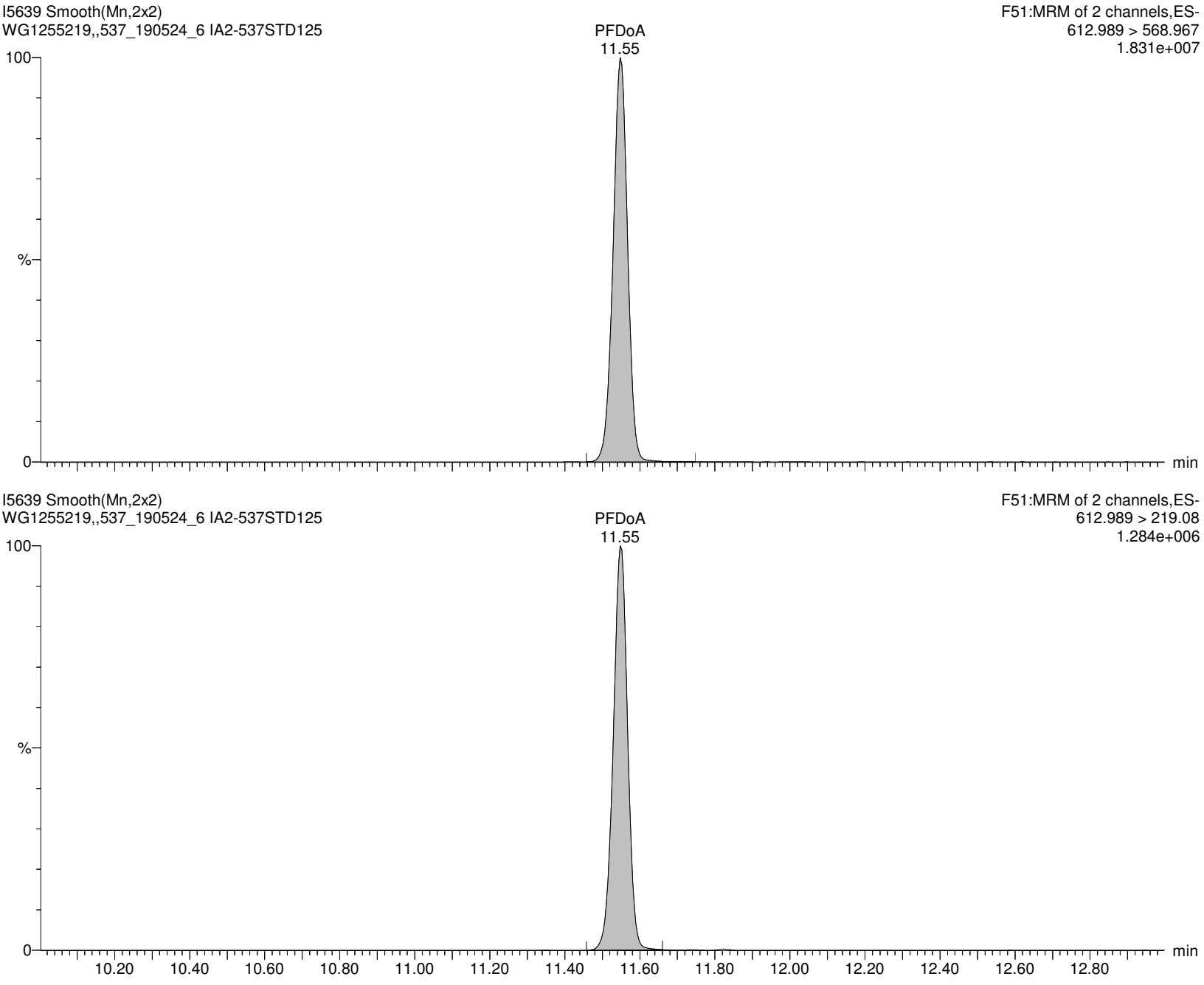


all concentration units in (ng/mL)

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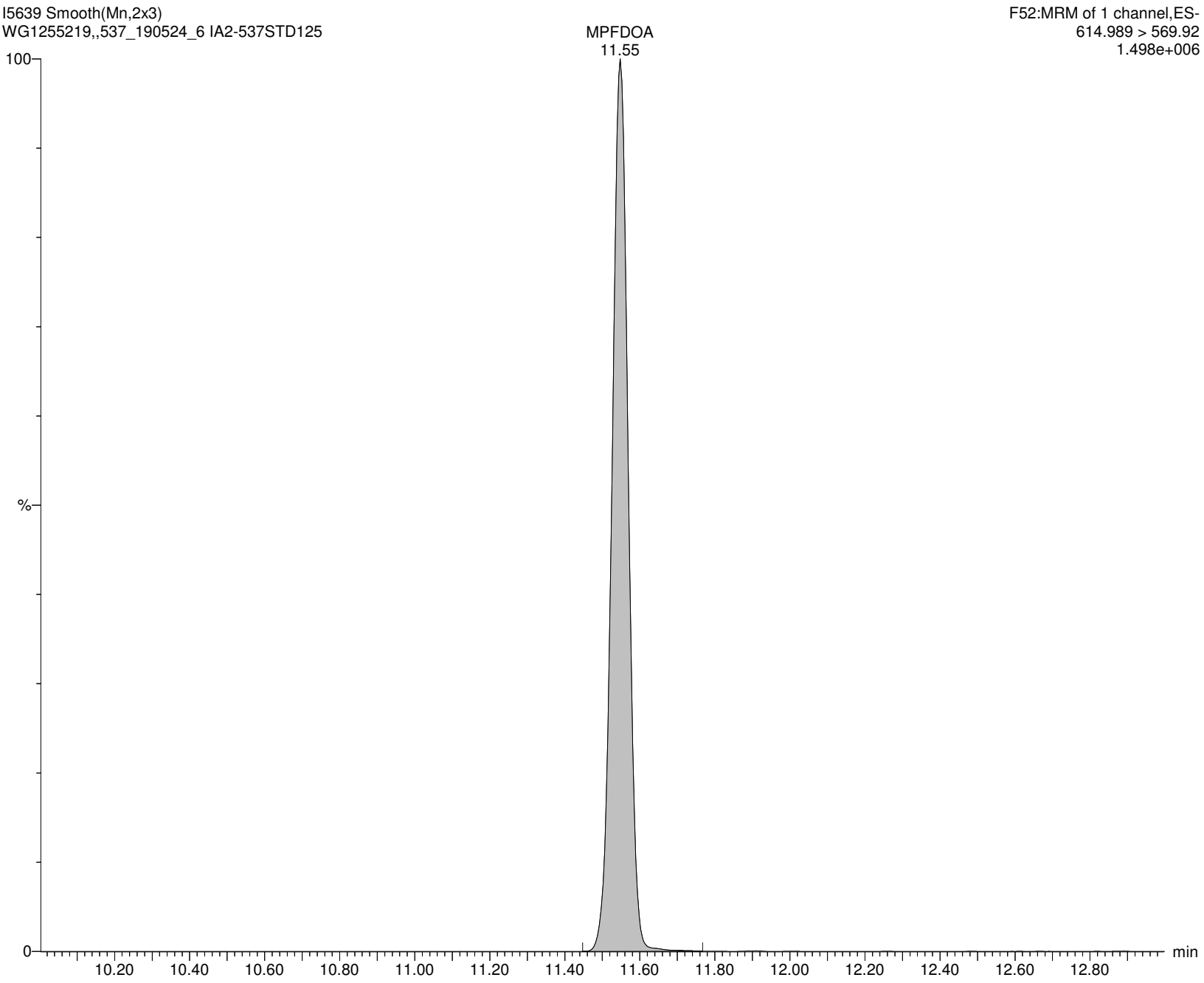


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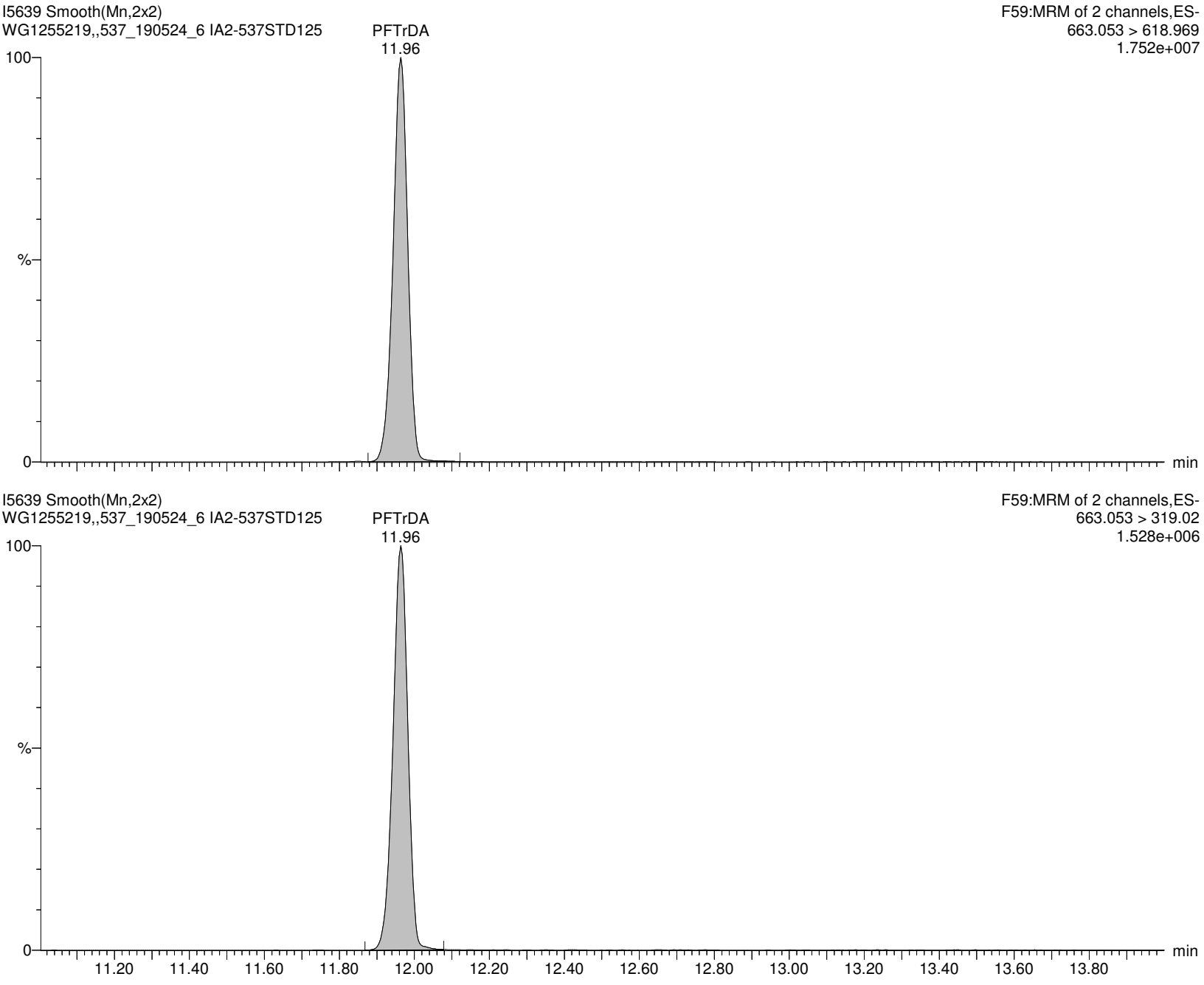


all concentration units in (ng/mL)

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Date: 01-Jul-2019
Time: 19:20:11
Description: WG1255219,,537_190524_6
User: LCMS02:JW
Vial: 1:A,7
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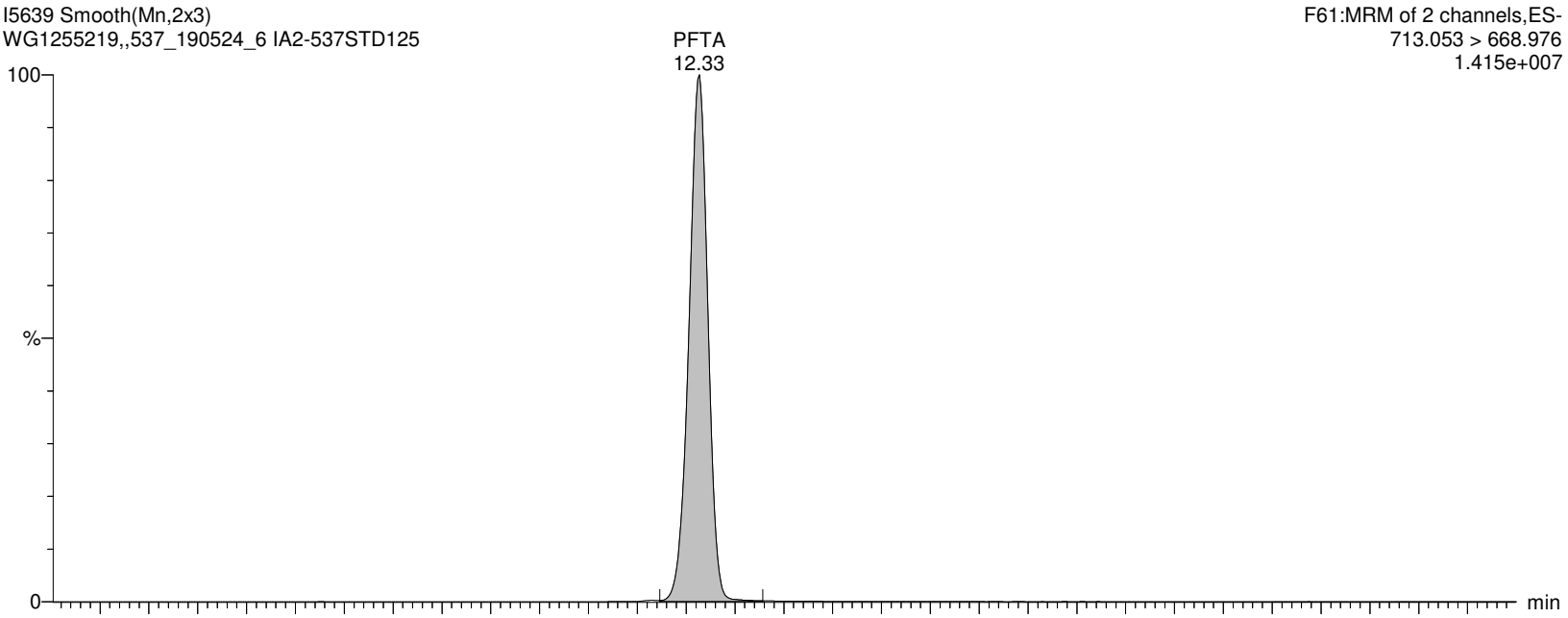


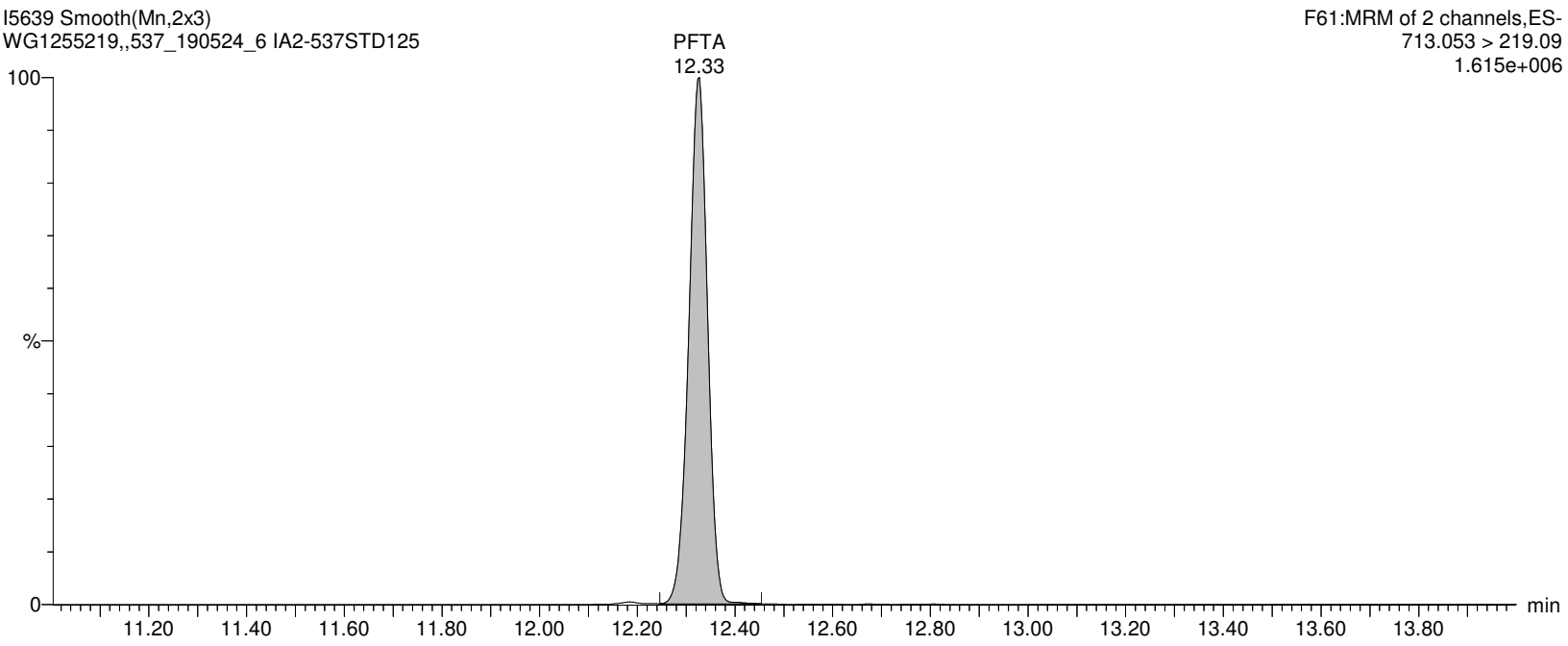
all concentration units in (ng/mL)

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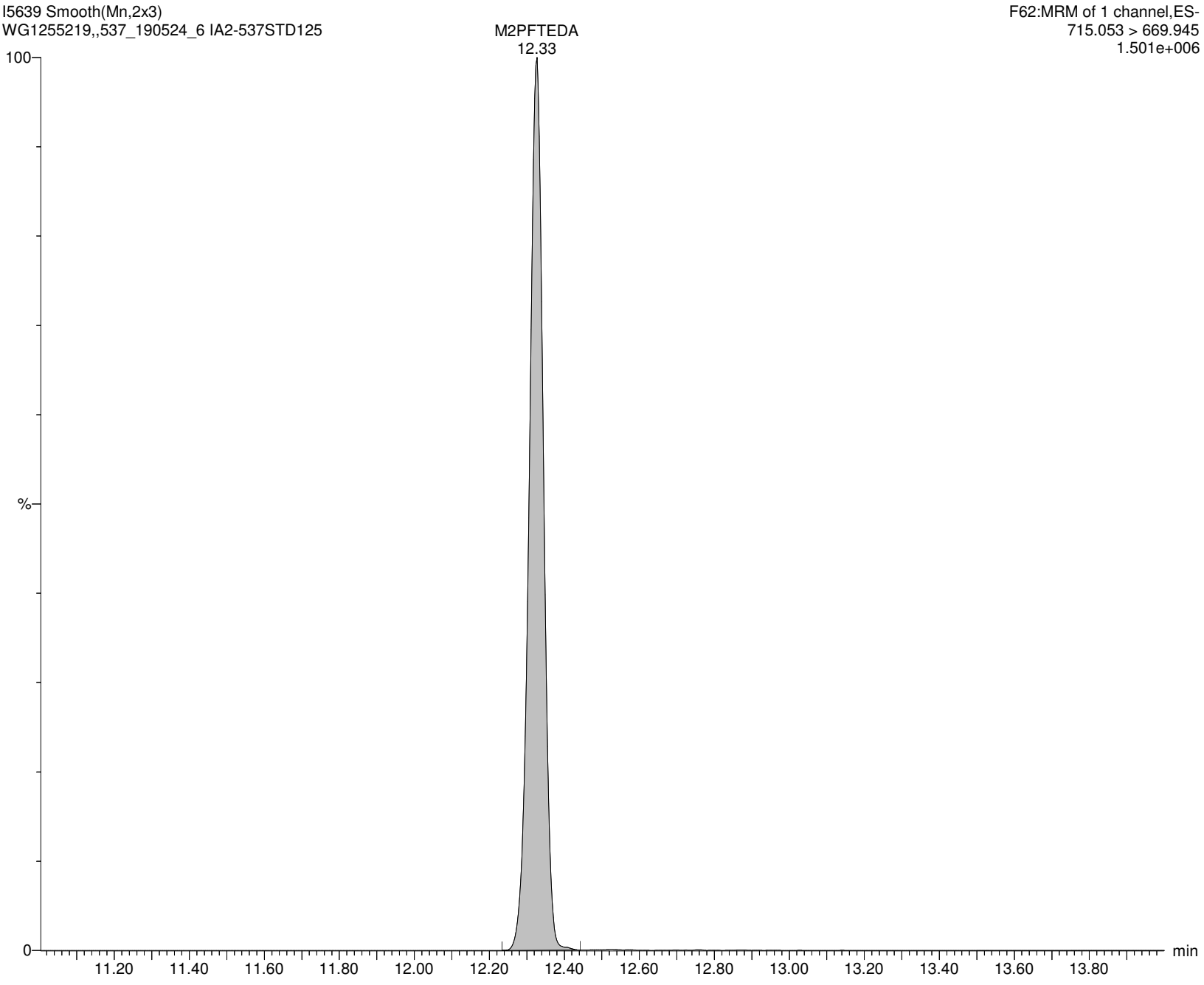


all concentration units in (ng/mL)

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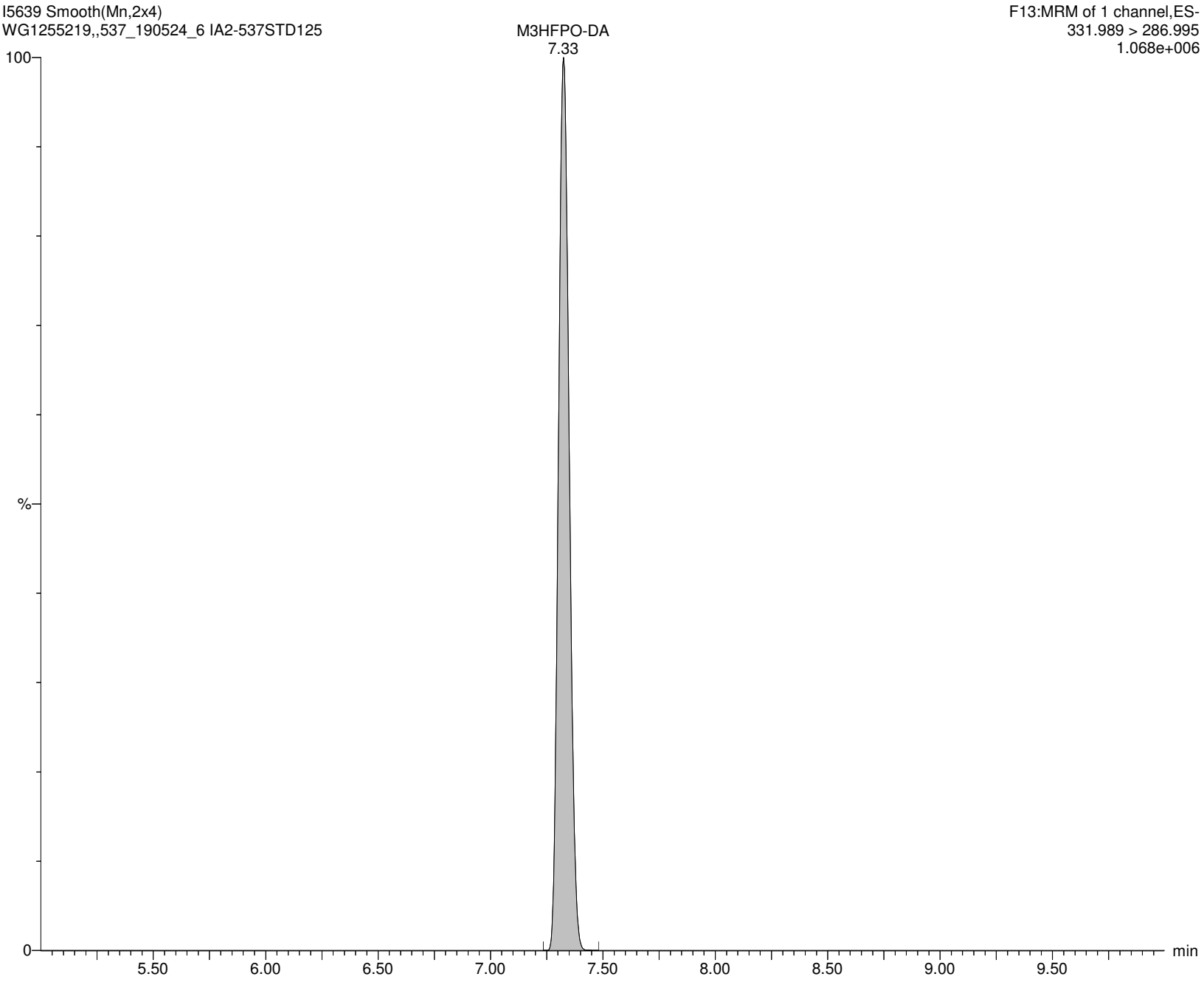


all concentration units in (ng/mL)

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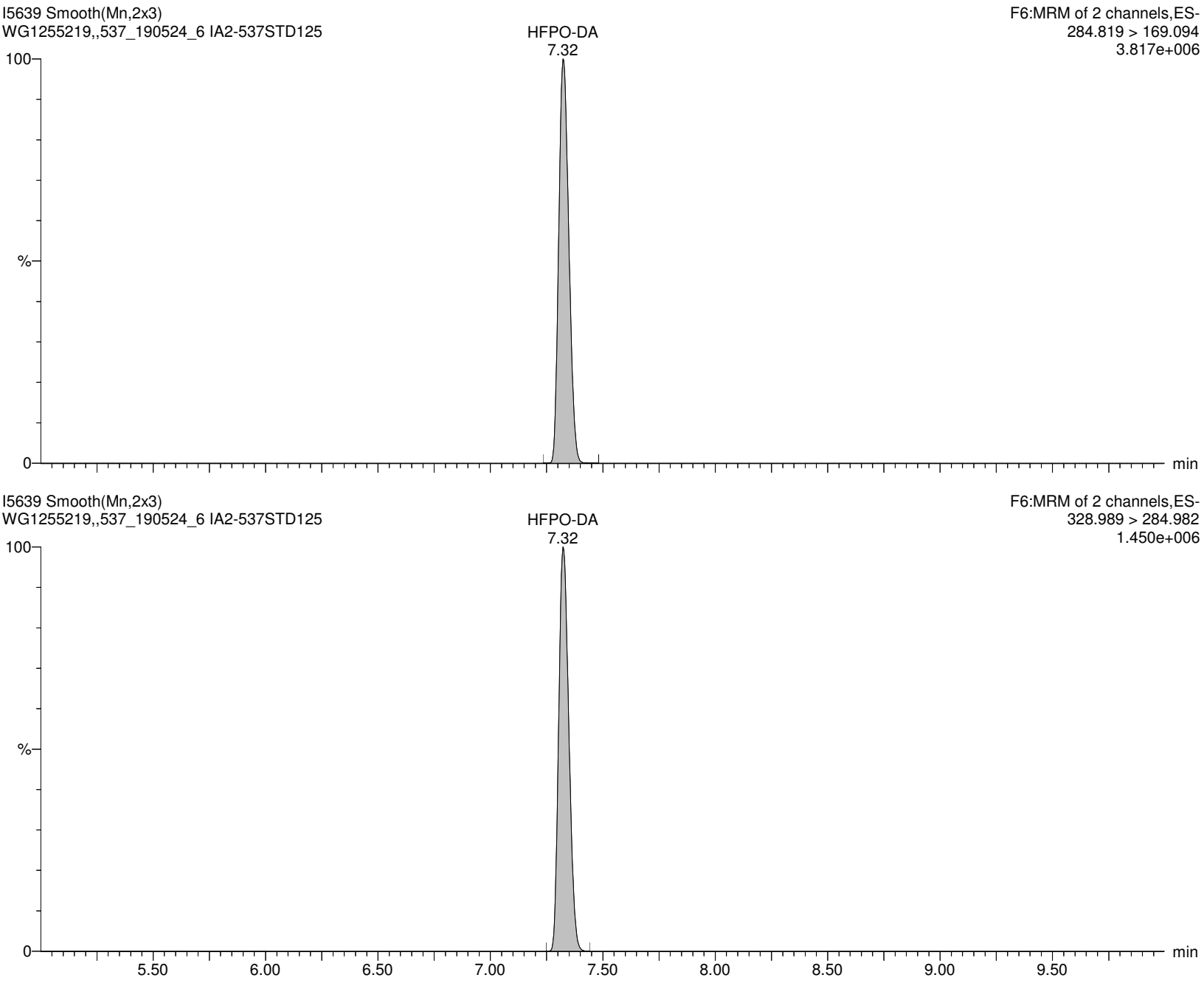


all concentration units in (ng/mL)

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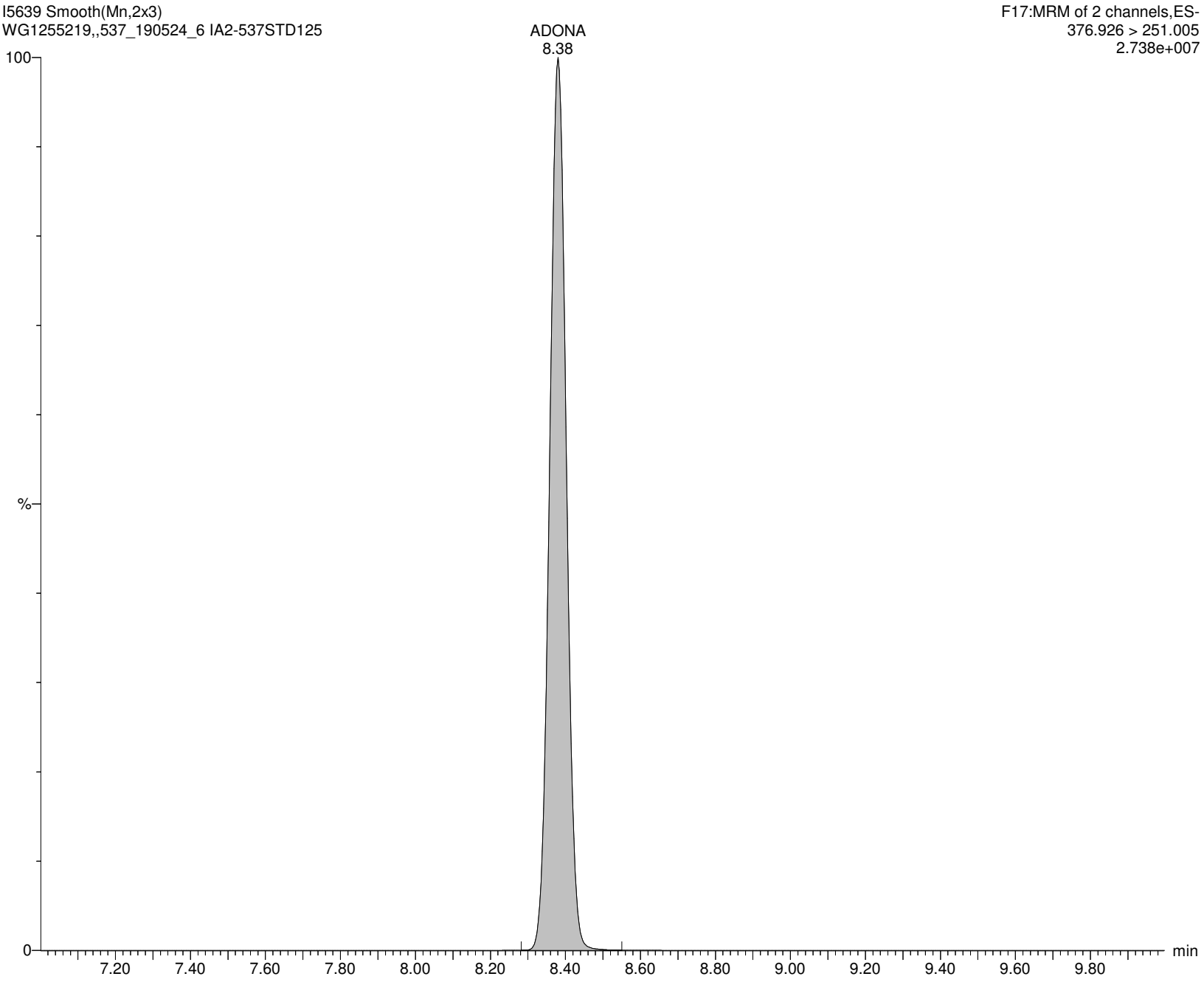


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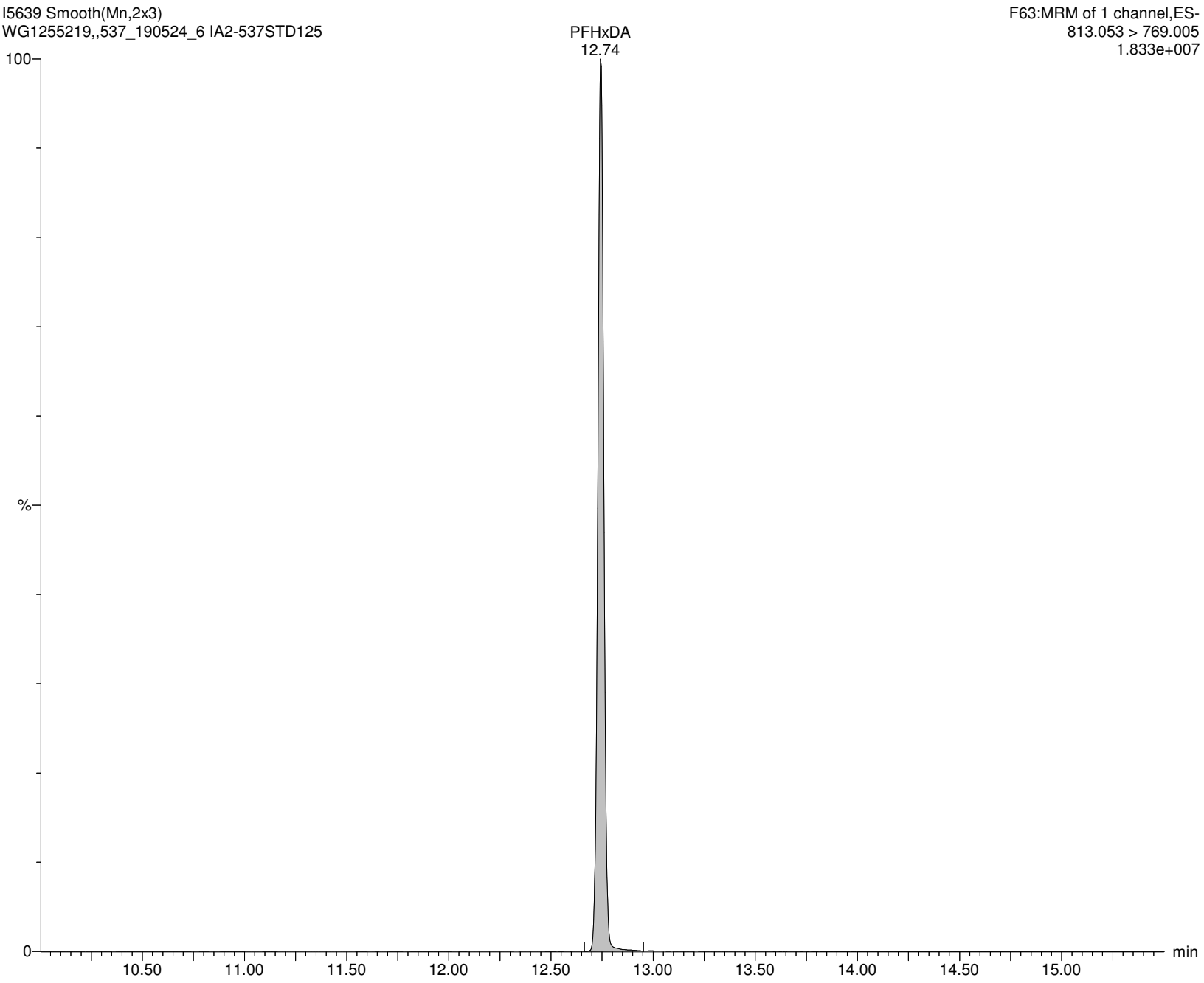


all concentration units in (ng/mL)

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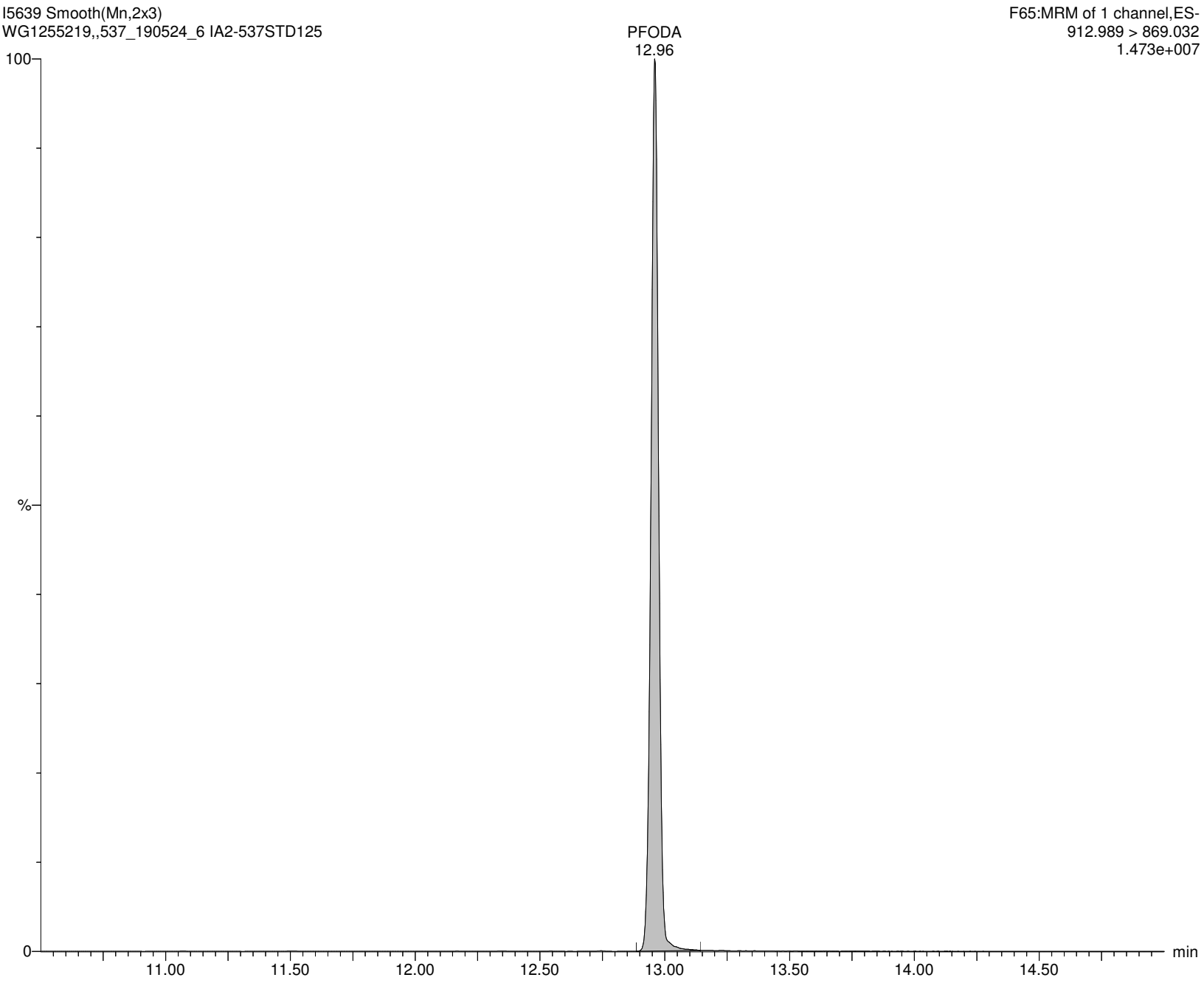


all concentration units in (ng/mL)

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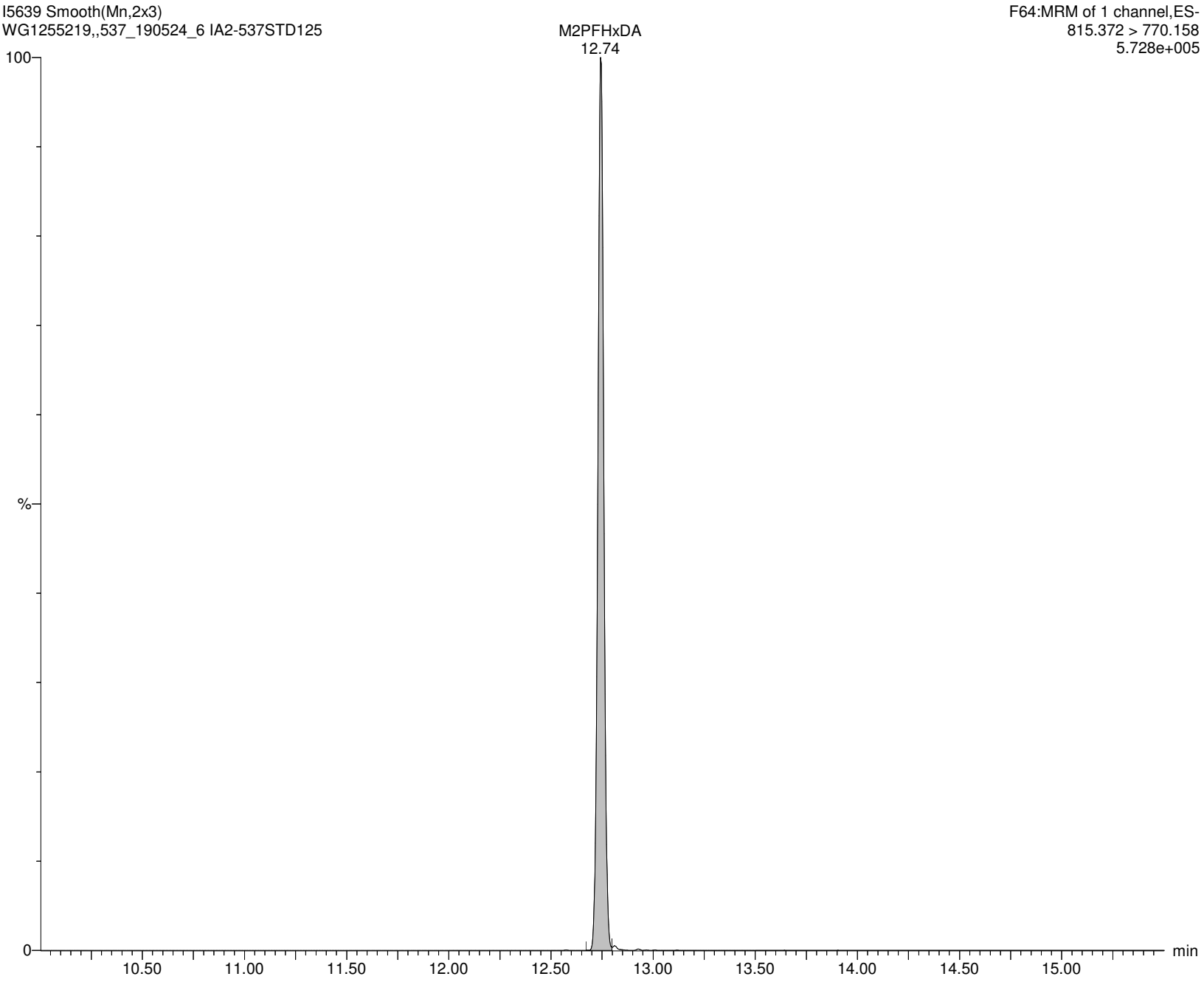


all concentration units in (ng/mL)

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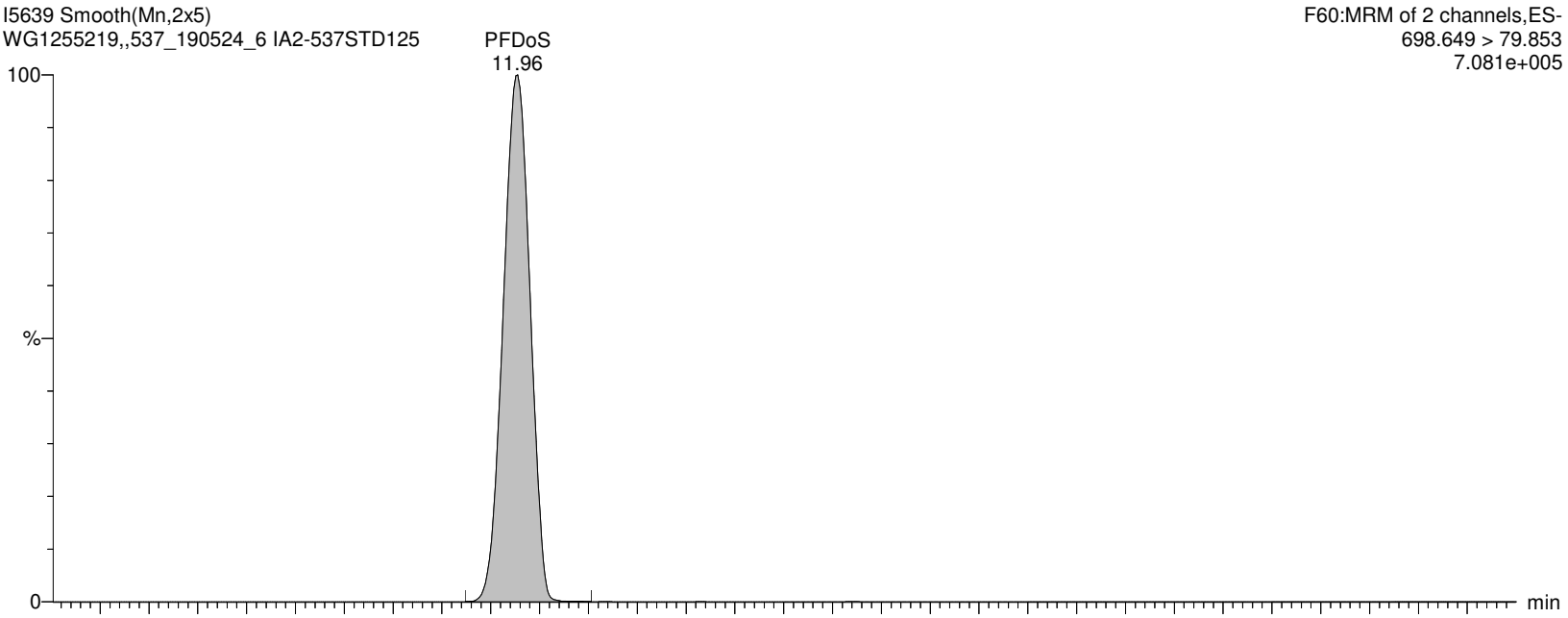


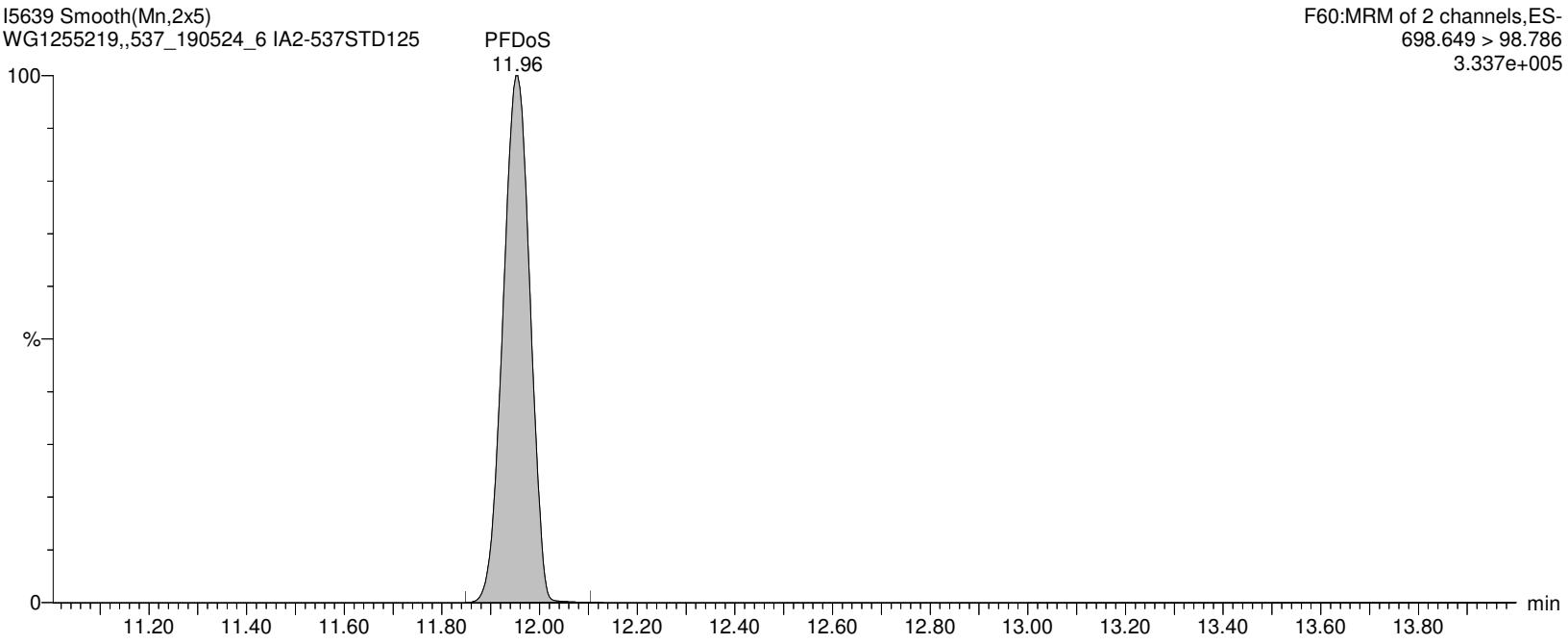
all concentration units in (ng/mL)

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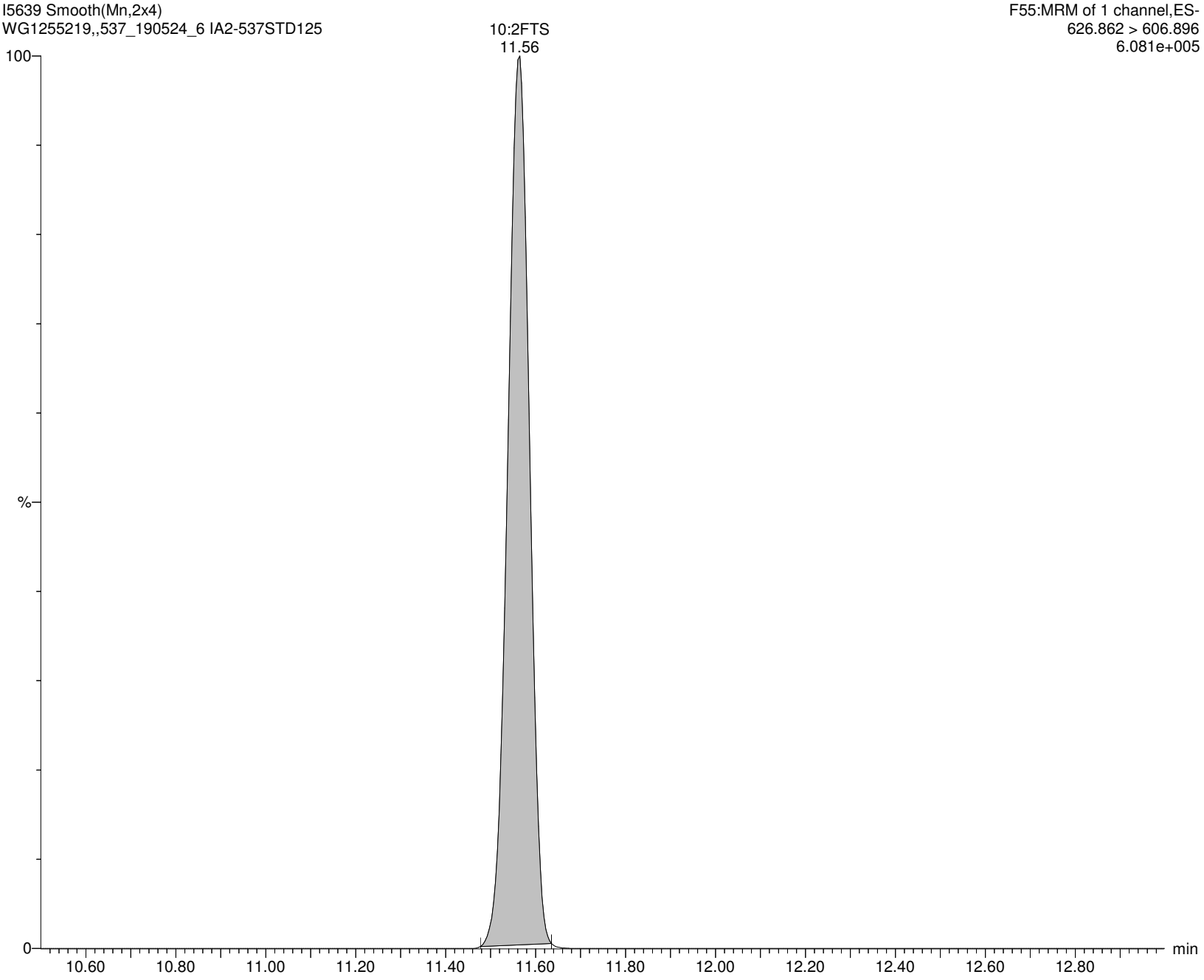


all concentration units in (ng/mL)

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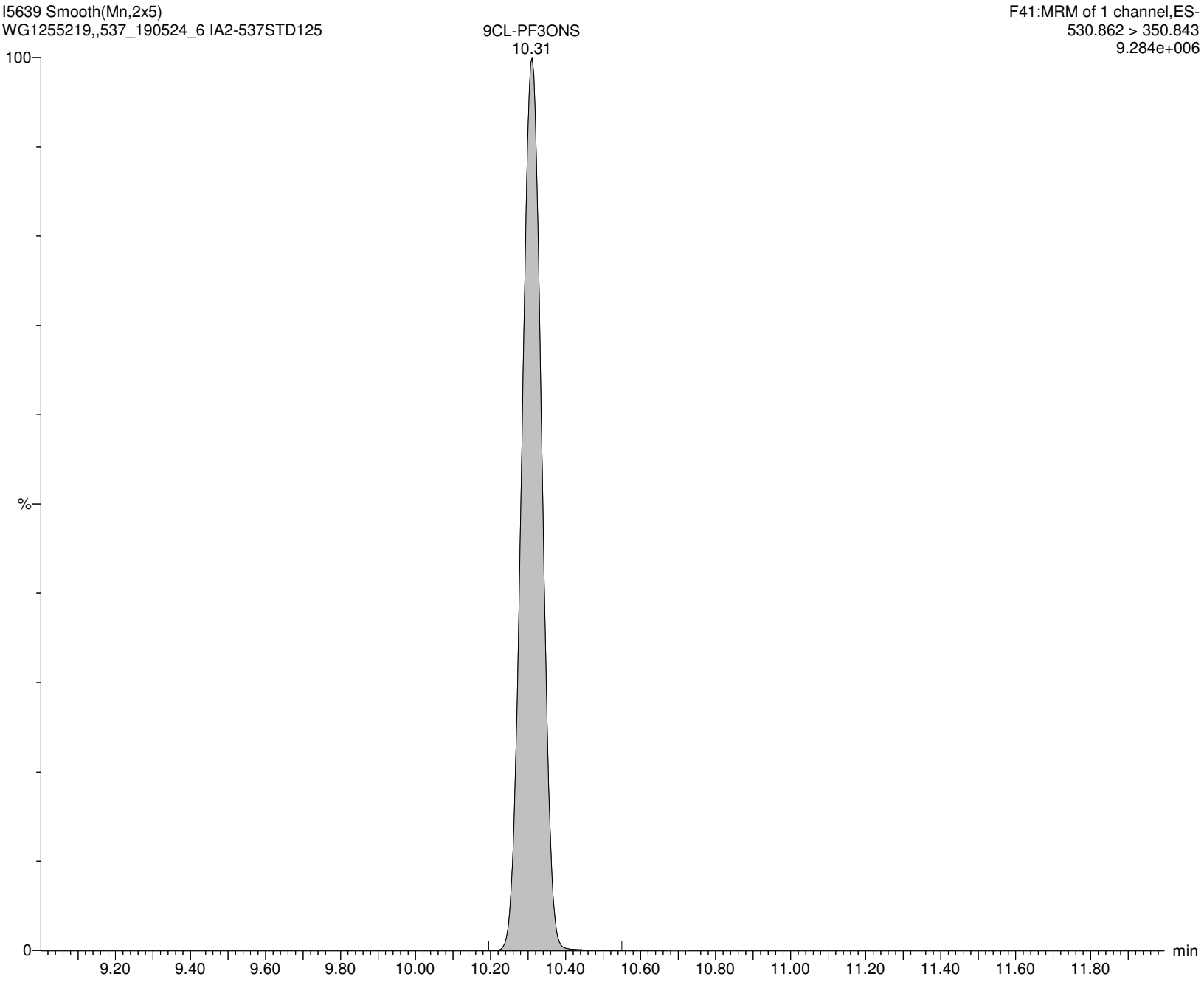


all concentration units in (ng/mL)

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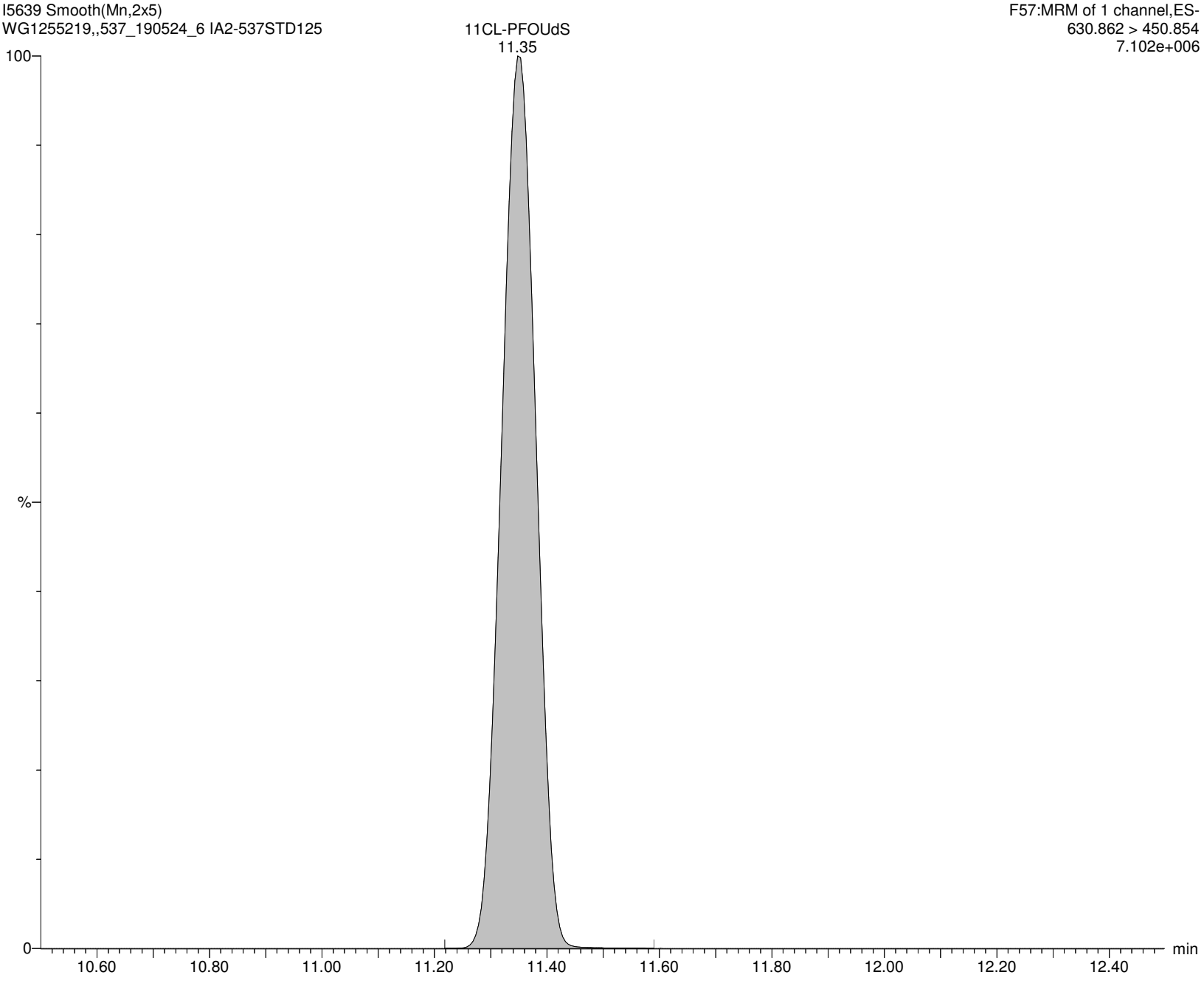


all concentration units in (ng/mL)

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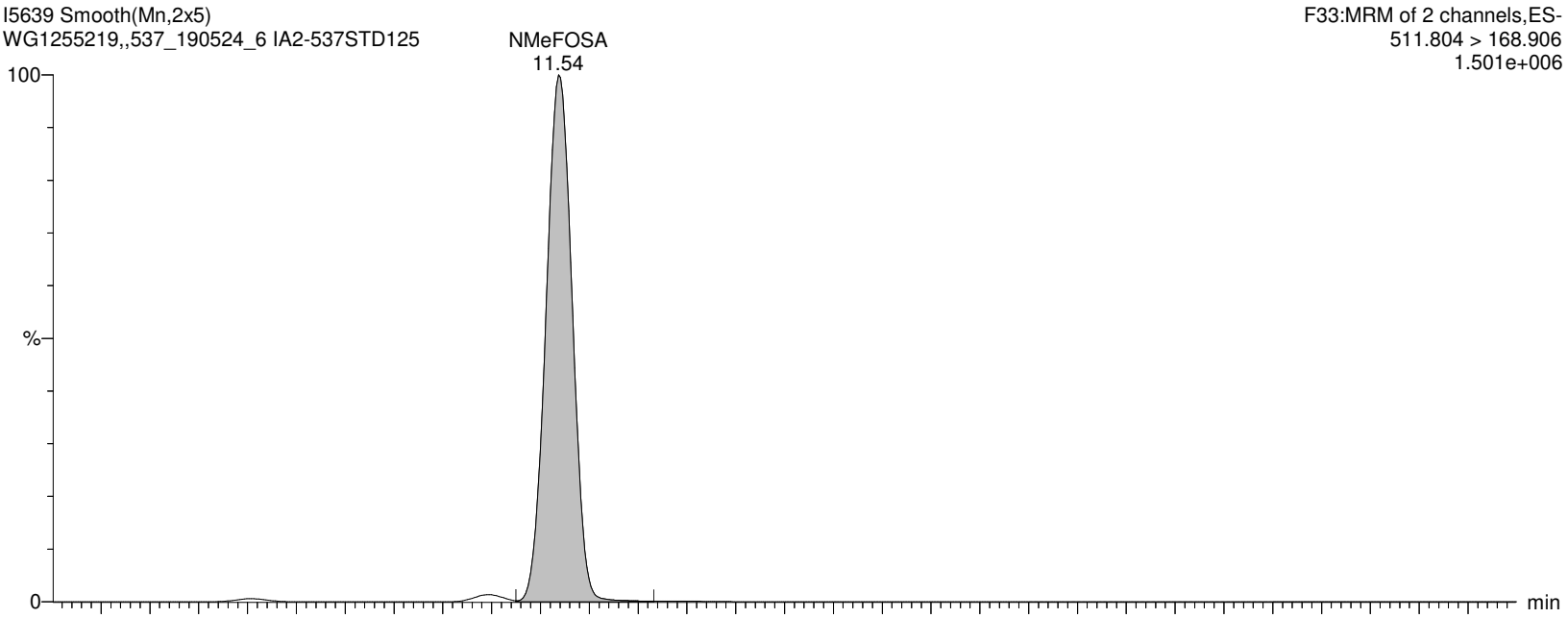


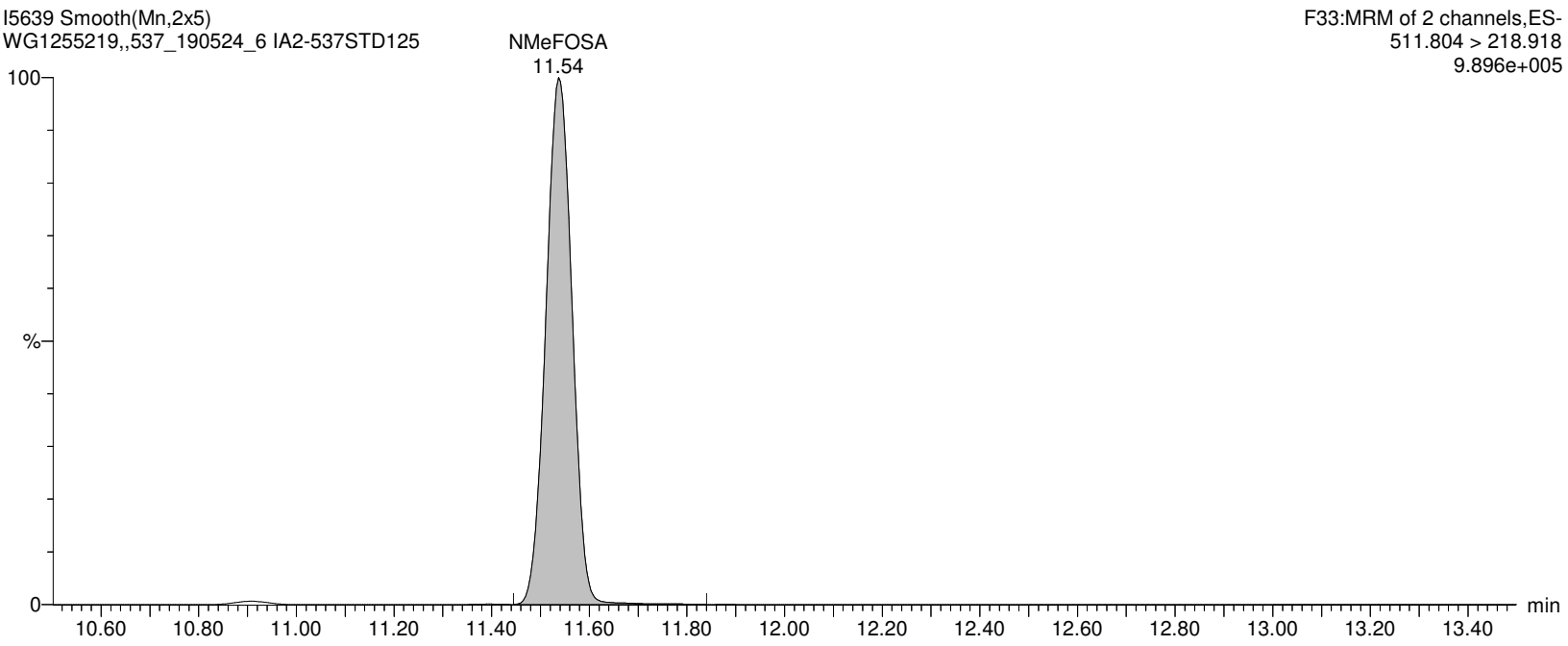
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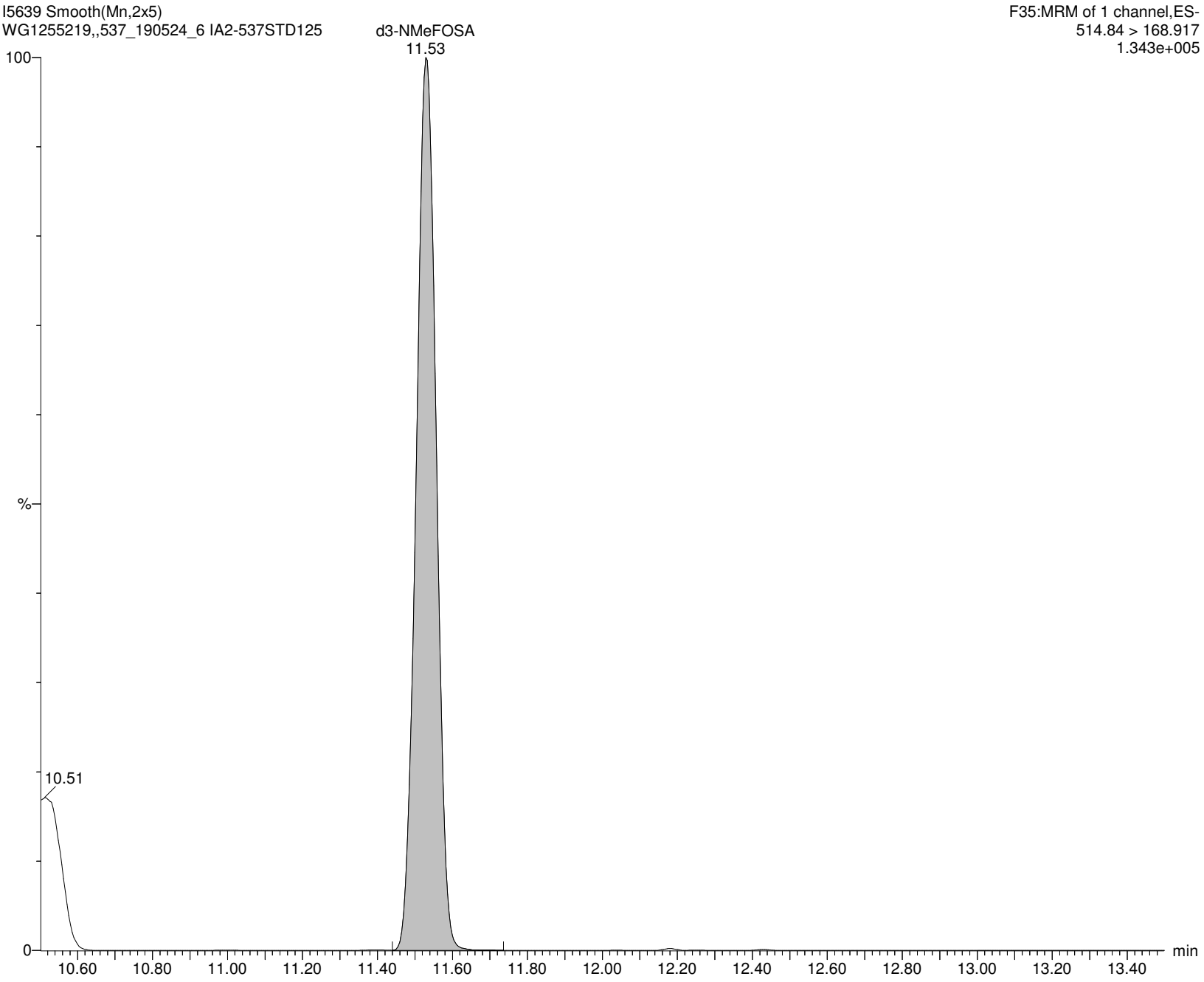


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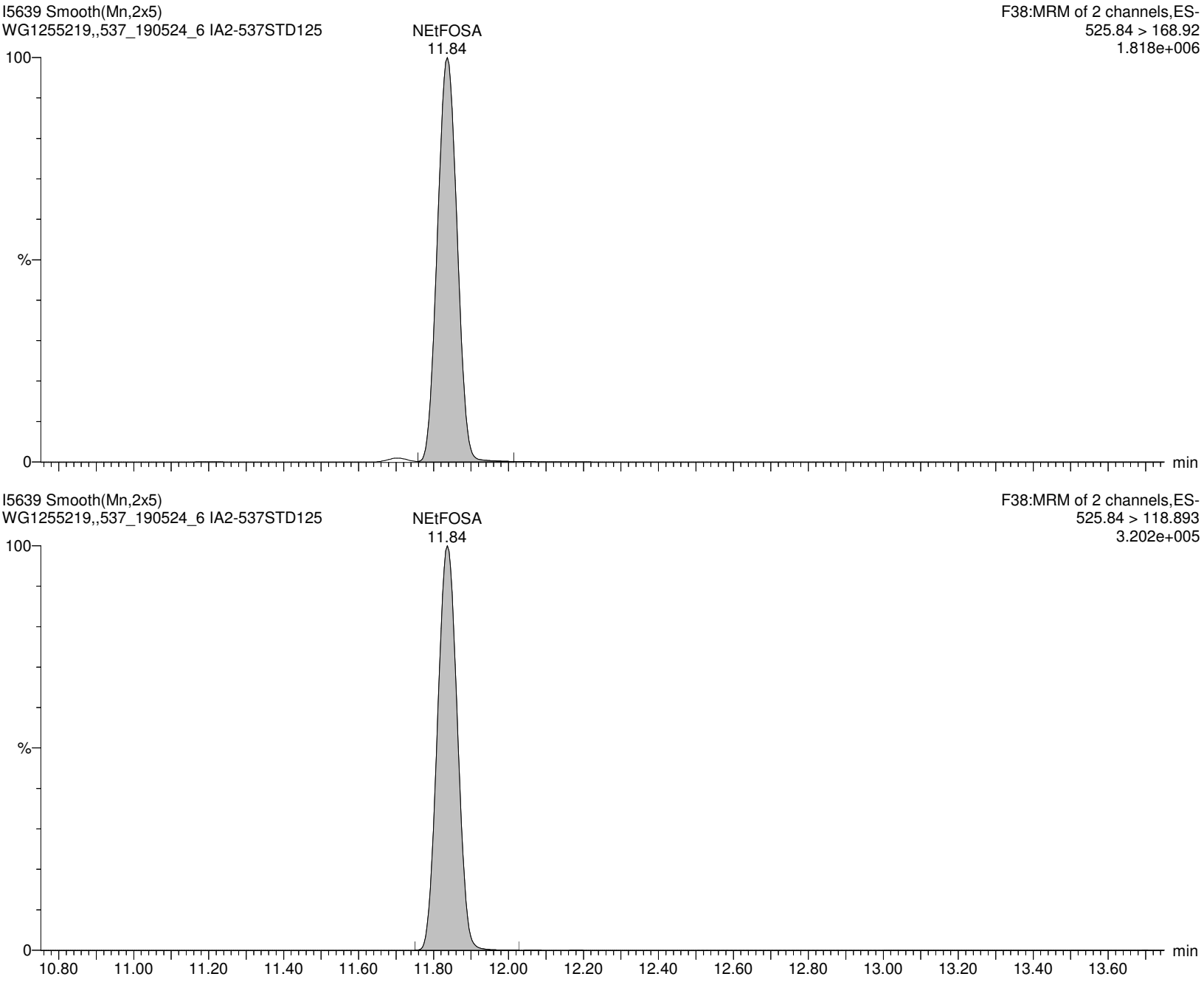


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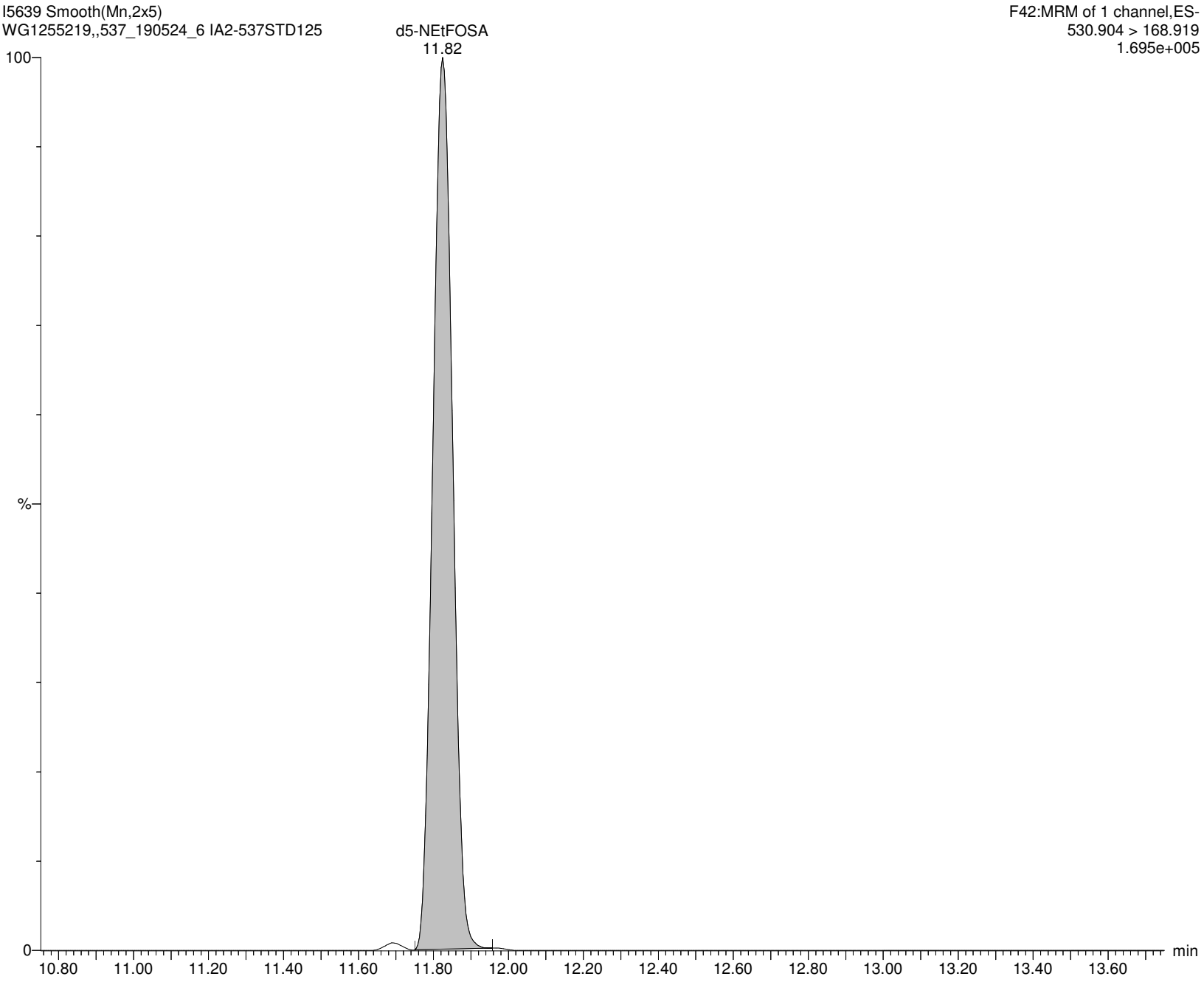


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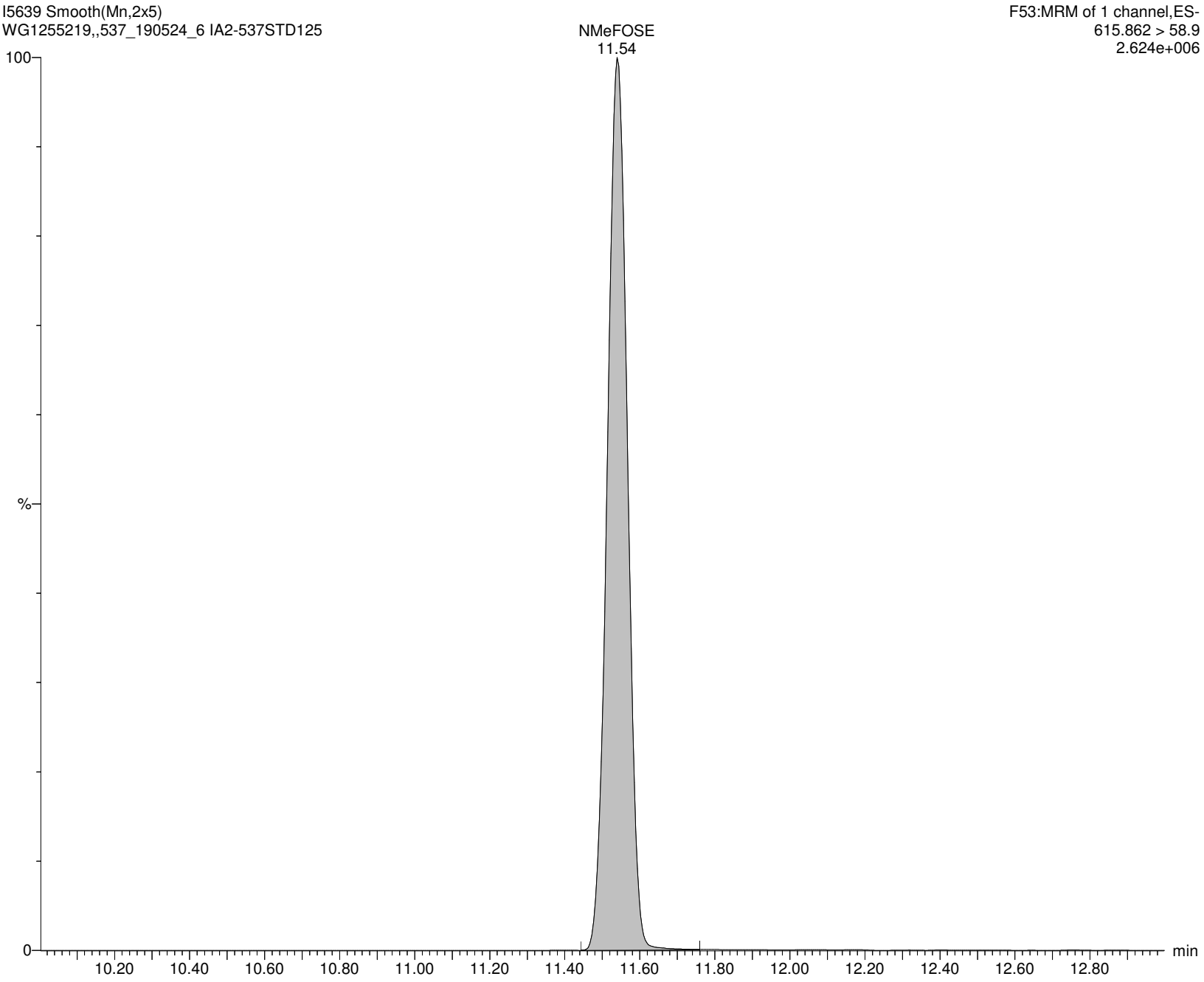


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Vial: 1:A,7
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

NMeFOSE

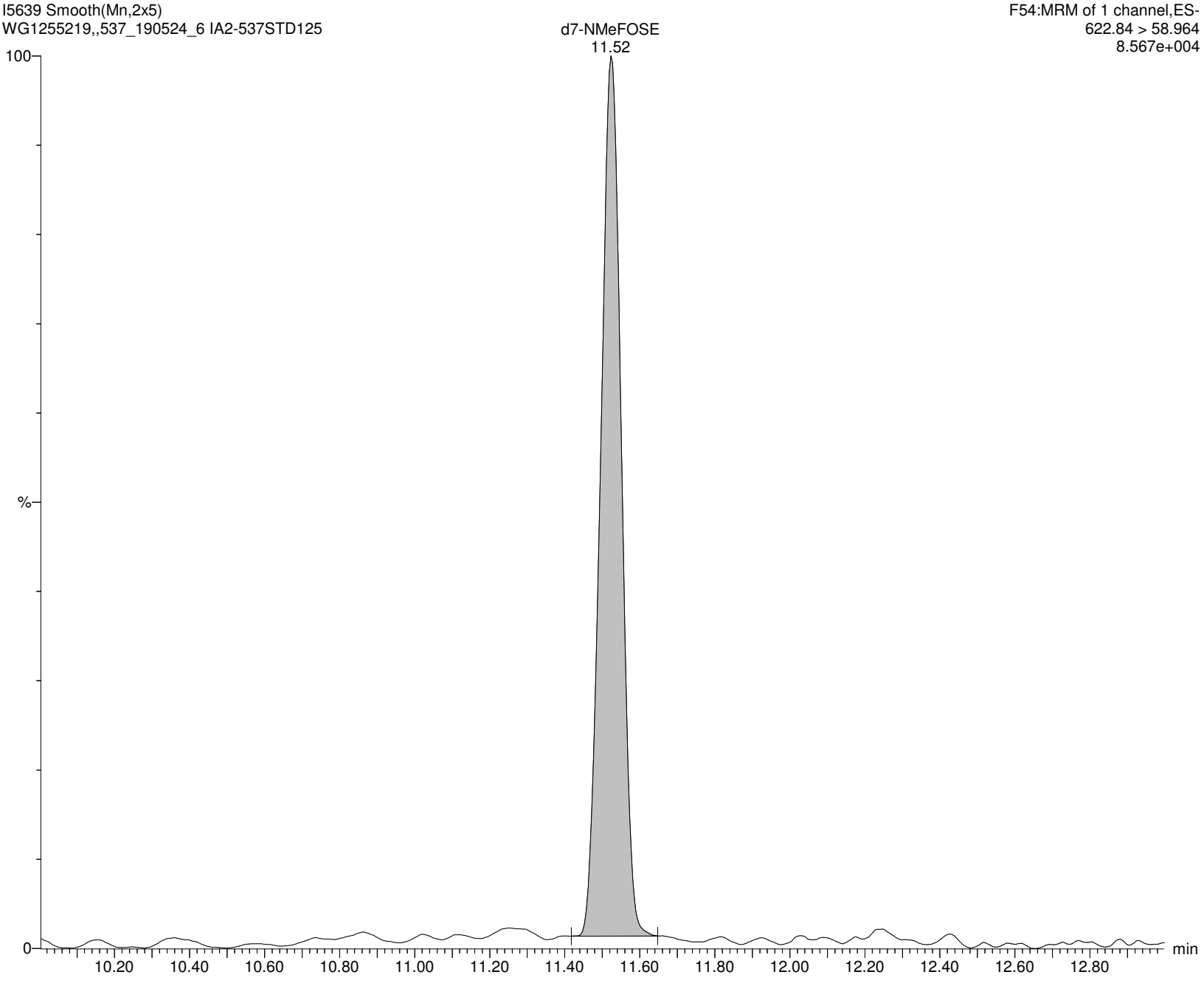


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:39 Eastern Daylight Time

Name: I5639
ID: IA2-537STD125
Date: 01-Jul-2019
Time: 19:20:11
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User: LCMS02:JW
Vial: 1:A,7
Instrument: XEVO-TQSmicro#QEB0050
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d7-NMeFOSE

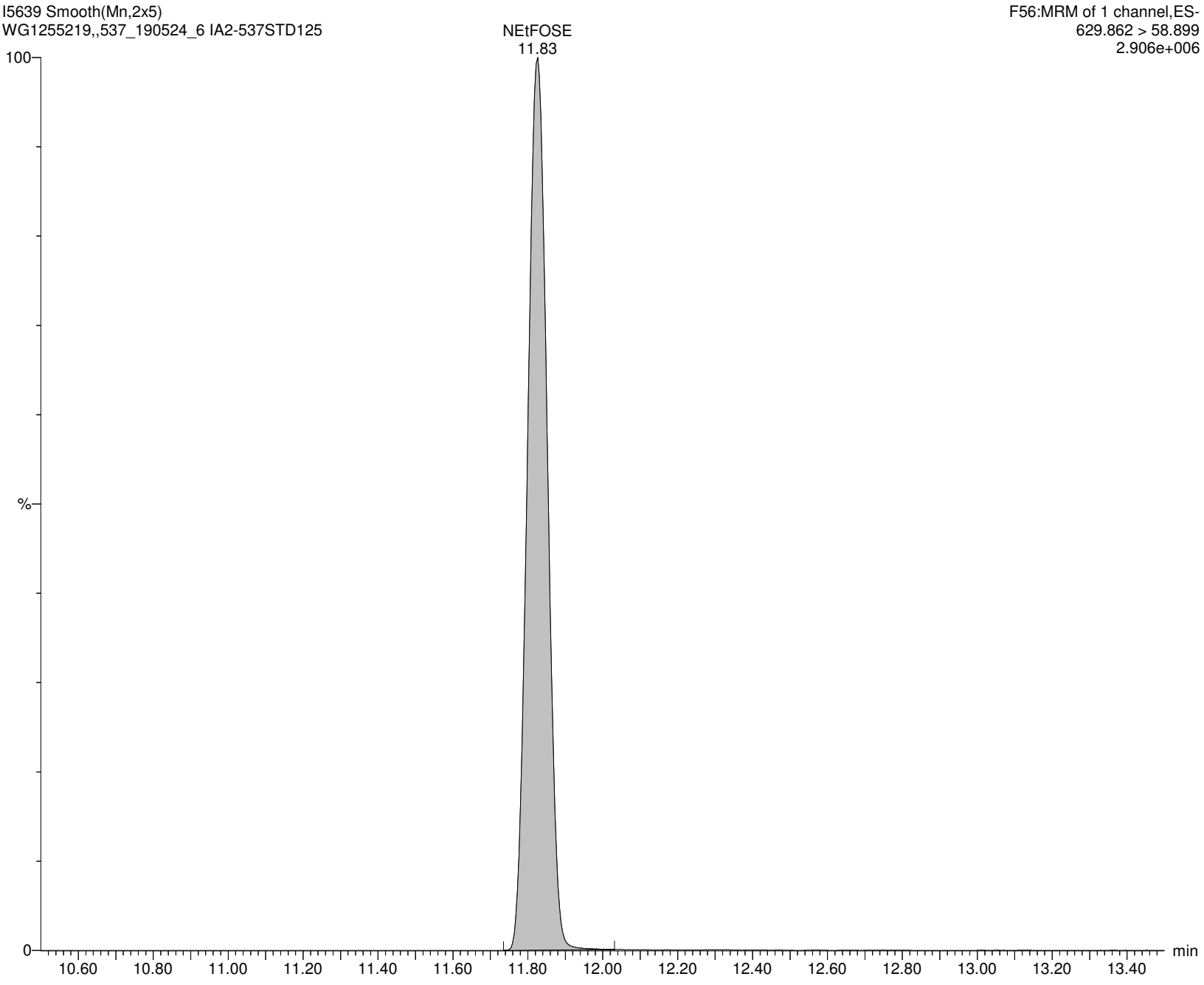


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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ID: IA2-537STD125
Date: 01-Jul-2019
Time: 19:20:11
Description: WG1255219,,537_190524_6
User: LCMS02:JW
Vial: 1:A,7
Instrument: XEVO-TQSmicro#QEB0050
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MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

NEtFOSE

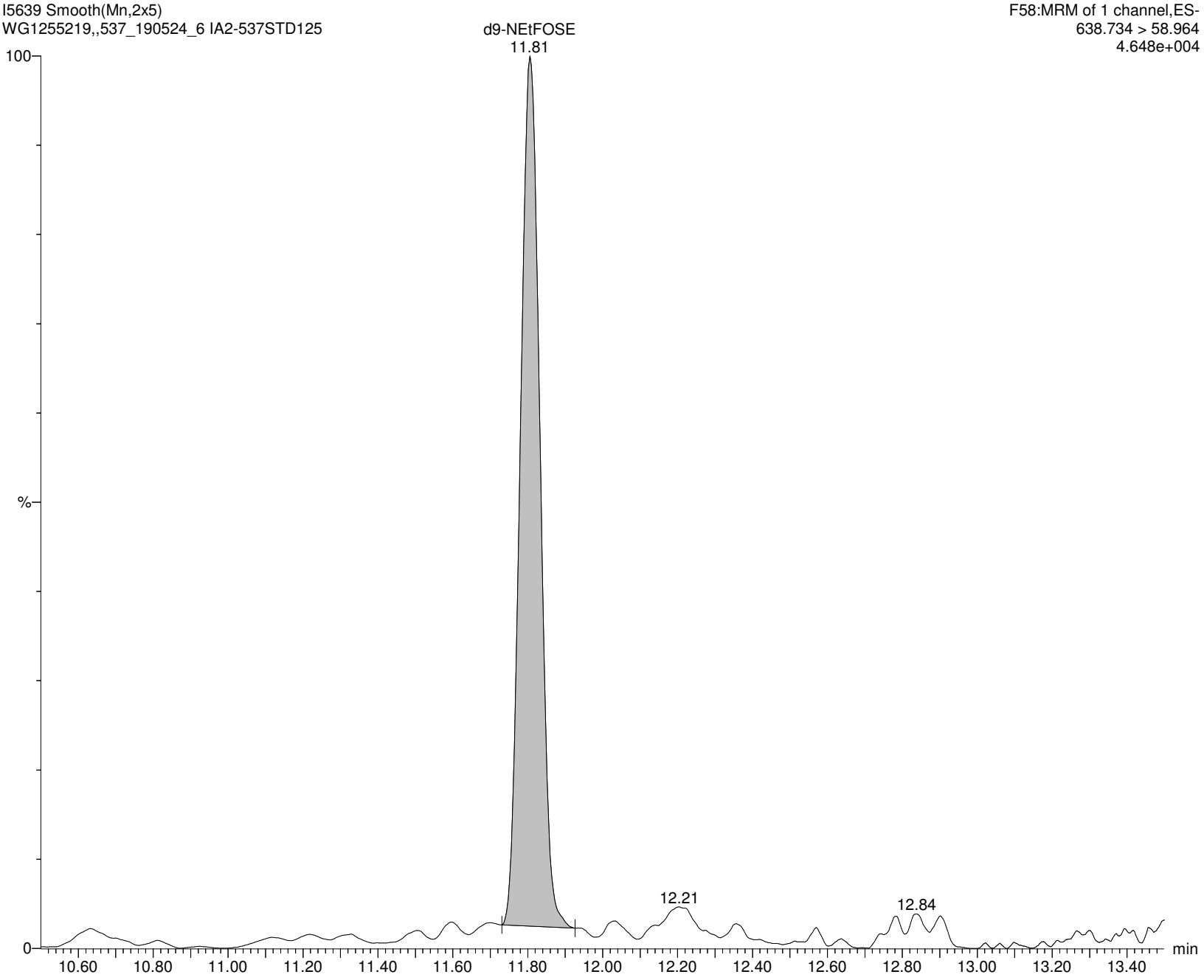


all concentration units in (ng/mL)

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Date: 01-Jul-2019
Time: 19:20:11
Description: WG1255219,,537_190524_6
User: LCMS02:JW
Vial: 1:A,7
Instrument: XEVO-TQSmicro#QEB0050
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Tune Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

d9-NEtFOSE



all concentration units in (ng/mL)

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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:41 Eastern Daylight Time

Method: C:\MassLynx\Data\2019\190701_537ISO.PRO\MethDB\537ISO_Q_190702_DOD.mdb 17 Jun 2019 11:52:40
Calibration: C:\MassLynx\Data\2019\190701_537ISO.PRO\CurveDB\190702_ISO_ICAL.cdb 02 Jul 2019 11:07:37

ID: IA2-537STD150
Name: I5640
Date: 01-Jul-2019
Time: 19:36:40
Description: WG1255219,,537_190524_7
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.10	212.926 > 169.111	591577		151.269		na	100.8
2	M3PFBA	INT STD	2.10	215.926 > 172.122	38782		10.027		na	100.3
3	MPFBA	INT STD	2.10	216.926 > 172.137	42978		9.882		na	98.8
4	PFPeA	2706-90-3	4.98	262.926 > 219.002	924783		151.173		na	100.8
5	M5PFPEA	INT STD	4.98	267.989 > 223.081	59613		9.684		na	96.8
6	PFBS	375-73-5	5.64	298.926 > 79.923	182972		134.383	1.88	YES	101.2
7	M3PFBS	INT STD	5.64	301.989 > 80.254	9151		10.015		na	100.1
8	4:2FTS	757124-72-4	6.82	326.926 > 306.957	79954		155.210	2.16	NO	110.7
9	M2-4:2FTS	INT STD	6.82	329.117 > 309.079	8372		15.290		na	152.9
10	PFHxA	307-24-4	6.90	312.989 > 269.028	1079174		151.343	18.12	NO	100.9
11	M5PFHxA	INT STD	6.90	317.989 > 273.045	72135		9.735		na	97.3
12	PFPeS	2706-91-4	7.22	348.926 > 80.251	137492		140.999	1.88	NO	100.0
13	PFHpA	375-85-9	8.19	362.926 > 319.014	1369717		151.484	5.85	NO	101.0
14	M4PFHpA	INT STD	8.19	366.926 > 321.979	90688		9.606		na	96.1
15	br-PFHxS	355-46-4	8.12	398.926 > 80.295	21914	M5	26.474	2.43	NO	103.8
16	L-PFHxS	355-46-4	8.36	398.926 > 80.295	82759		111.681	1.19	NO	100.6
17	PFHxS	355-46-4		398.926 > 80.295	104673		138.156		na	
18	M3PFHxS	INT STD	8.36	401.926 > 80.317	5471		9.661		na	96.6
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1	9.15	412.989 > 368.9	1290594		150.097	9.46	NO	100.1
21	M2PFOA	INT STD	9.15	415.032 > 369.968	87895		9.640		na	96.4
22	PFOA	335-67-1		412.989 > 368.9	1290594		150.097		na	
23	M8PFOA	INT STD	9.15	420.989 > 375.979	86629		9.920		na	99.2
24	6:2FTS	27619-97-2	9.11	426.989 > 406.921	55869		146.648	8.74	NO	102.9
25	M2-6:2FTS	INT STD	9.11	428.989 > 408.917	7537		15.275		na	152.8
26	PFHpS	375-92-8	9.24	448.926 > 80.257	74525		141.283	0.90	NO	99.1
27	PFNA	375-95-1	9.90	462.989 > 418.931	1077969		152.245	4.24	NO	101.5
28	M9PFNA	INT STD	9.90	472.053 > 426.947	78043		9.650		na	96.5
29	br-PFOS	1763-23-1	9.77	498.989 > 80.294	33128	M5	30.555	4.21	NO	101.8
30	L-PFOS	1763-23-1	9.96	498.989 > 80.294	84258		111.178	1.51	NO	101.5
31	PFOS	1763-23-1		498.989 > 80.294	117386		141.733		na	
32	M4PFOS	INT STD	9.96	503.032 > 80.306	6865		9.230		na	92.3
33	M8PFOS	INT STD	9.96	507.053 > 80.294	7353		9.945		na	99.5
34	PFDA	335-76-2	10.53	513.053 > 468.906	979531		154.136	6.21	NO	102.8
35	M2PFDA	INT STD	10.53	515.053 > 469.934	64591		9.031		na	90.3
36	M6PFDA	INT STD	10.53	519.053 > 473.931	70287		9.732		na	97.3
37	8:2FTS	39108-34-4	10.52	526.926 > 506.818	36950		ND		na	
38	M2-8:2FTS	INT STD	10.52	529.053 > 508.945	3870		14.291		na	142.9
39	PFNS	68259-12-1	10.56	548.989 > 80.249	107788		147.599	1.30	NO	102.5

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
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Printed: Tuesday, July 02, 2019 11:08:41 Eastern Daylight Time

ID: IA2-537STD150
Name: I5640
Date: 01-Jul-2019
Time: 19:36:40
Description: WG1255219,,537_190524_7
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.91	573.096 > 418.987	7725		10.779		na	107.8
41	NMeFOSAA	2355-31-9	10.91	570.053 > 418.917	115517		147.224	2.60	NO	98.1
42	PFUnA	2058-94-8	11.07	562.989 > 518.903	952455		154.184	7.65	NO	102.8
43	M7-PFUDA	INT STD	11.07	570.053 > 524.923	60156		9.420		na	94.2
44	PFDS	335-77-3	11.09	598.926 > 80.314	79027		145.892	1.02	YES	100.8
45	FOSA	754-91-6	10.93	497.989 > 78.245	375538		153.567	111.39	NO	102.4
46	M8FOSA	INT STD	10.93	506.053 > 78.286	21293		9.906		na	99.1
47	d5-NEtFOSAA	INT STD	11.19	589.117 > 418.929	7149		11.009		na	110.1
48	NEtFOSAA	2991-50-6	11.20	583.989 > 418.927	108735		150.414	2.65	NO	100.3
49	PFDoA	307-55-1	11.55	612.989 > 568.967	1066660		153.247	14.42	NO	102.2
50	MPFDOA	INT STD	11.55	614.989 > 569.92	72531		10.258		na	102.6
51	PFTrDA	72629-94-8	11.96	663.053 > 618.969	1029301		157.478	11.47	NO	105.0
52	PFTA	376-06-7	12.33	713.053 > 668.976	829288		151.423	8.88	NO	100.9
53	M2PFTEDA	INT STD	12.33	715.053 > 669.945	62971		10.540		na	105.4
54	M3HFPO-DA	INT STD	7.32	331.989 > 286.995	59580		262.217		na	131.1
55	HFPO-DA	13252-13-6	7.32	284.819 > 169.094	223126		2842.351	2.65	YES	94.7
56	ADONA	958445-44-8	8.38	376.926 > 251.005	1653982		132.893		na	93.6
57	PFHxDA		12.74	813.053 > 769.005	719714		148.353		na	98.9
58	PFODA		12.96	912.989 > 869.032	593979		146.043		na	97.4
59	M2PFHxDA		12.74	815.372 > 770.158	18283		10.045		na	100.5
60	PFDoS		11.96	698.649 > 79.853	49731		139.294	2.02	YES	92.9
61	10:2FTS		11.56	626.862 > 606.896	39248		ND		na	
62	9CL-PF3ONS		10.31	530.862 > 350.843	661756		133.004		na	95.1
63	11CL-PFOUdS		11.35	630.862 > 450.854	595566		135.895		na	96.2
64	NMeFOSA		11.54	511.804 > 168.906	109516		146.392	1.54	NO	97.6
65	d3-NMeFOSA		11.53	514.84 > 168.917	8001		10.745		na	107.5
66	NEtFOSA		11.84	525.84 > 168.92	126661		131.294	5.40	NO	87.5
67	d5-NEtFOSA		11.82	530.904 > 168.919	10906		11.311		na	113.1
68	NMeFOSE		11.54	615.862 > 58.9	191436		145.935		na	97.3
69	d7-NMeFOSE		11.52	622.84 > 58.964	5185		9.958		na	99.6
70	NEtFOSE		11.83	629.862 > 58.899	206671		150.029		na	100.0
71	d9-NEtFOSE		11.81	638.734 > 58.964	2650		10.318		na	103.2

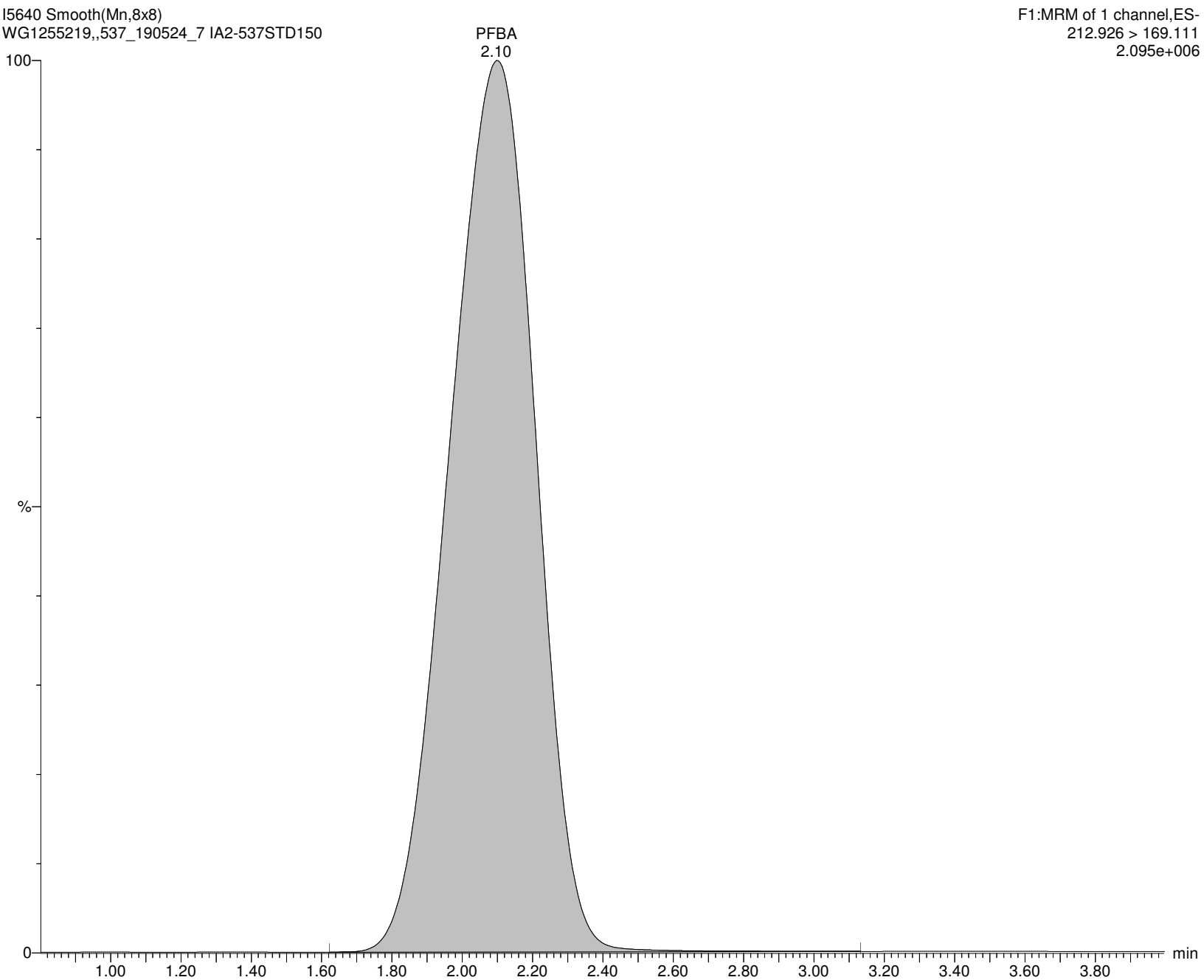
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:41 Eastern Daylight Time

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Name: I5640
ID: IA2-537STD150
Date: 01-Jul-2019
Time: 19:36:40
Description: WG1255219,,537_190524_7
User: LCMS02:JW
Vial: 1:A,8
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

PFBA

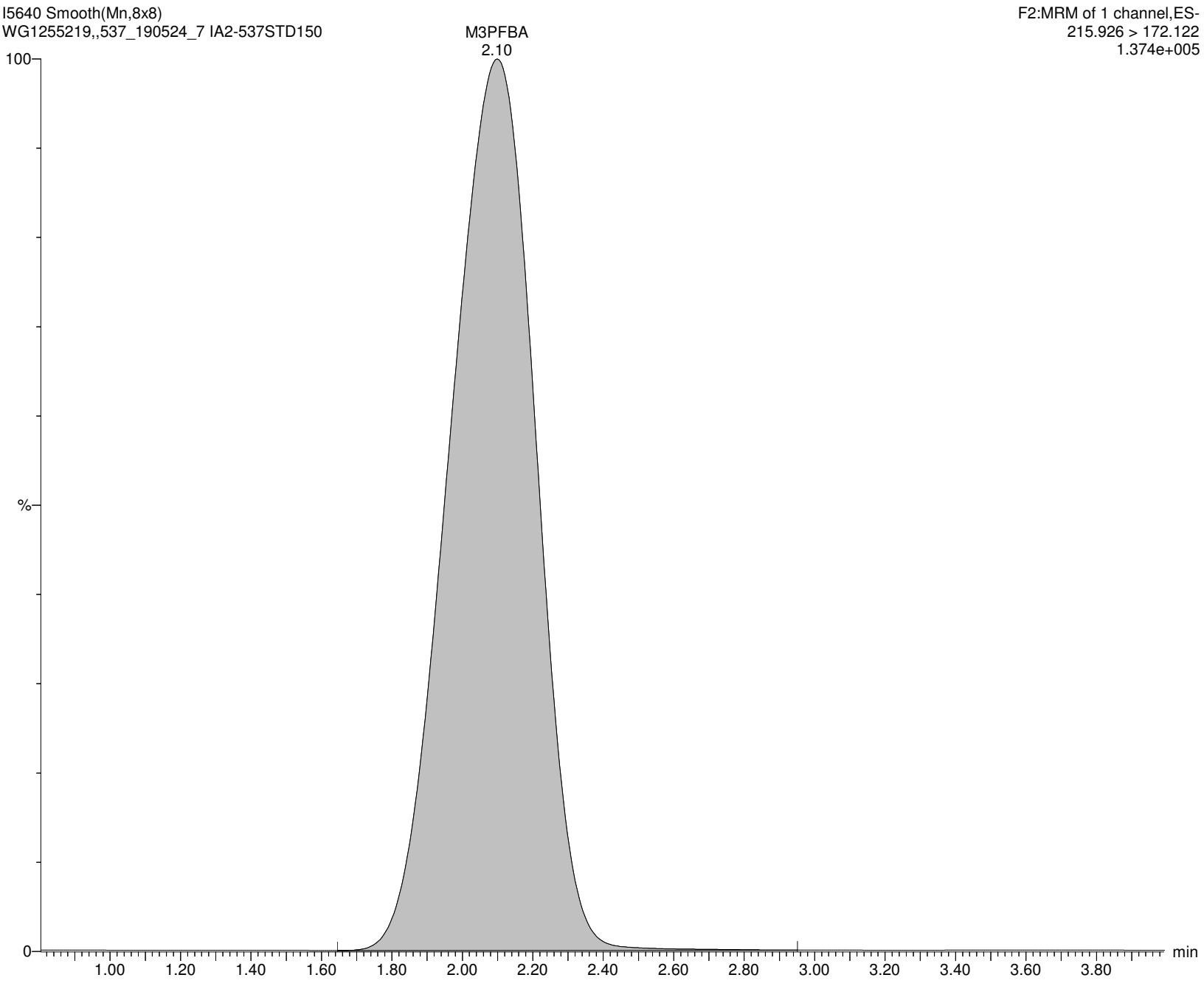


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User: LCMS02:JW
Vial: 1:A,8
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M3PFBA

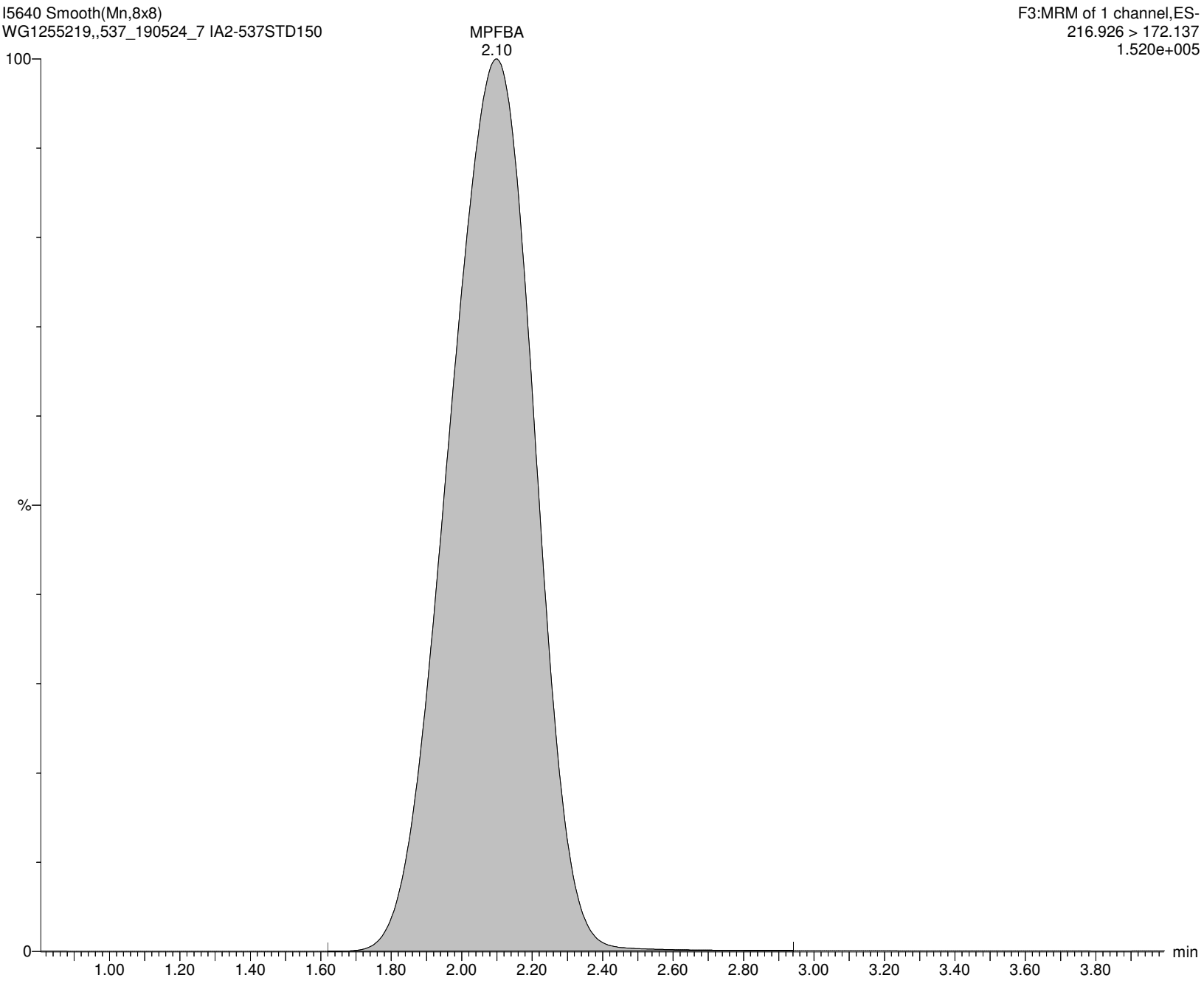


all concentration units in (ng/mL)

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MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

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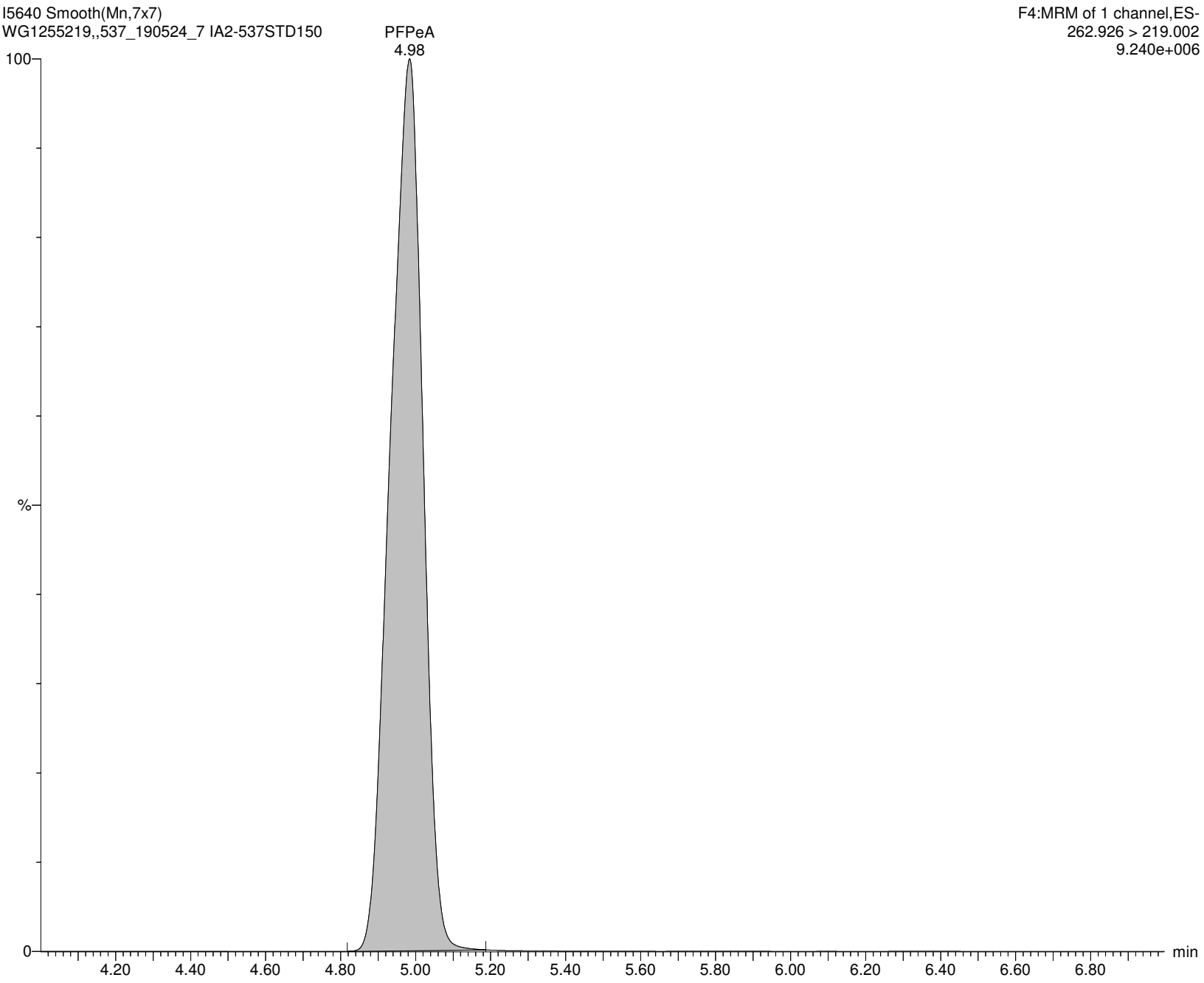


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PFPeA

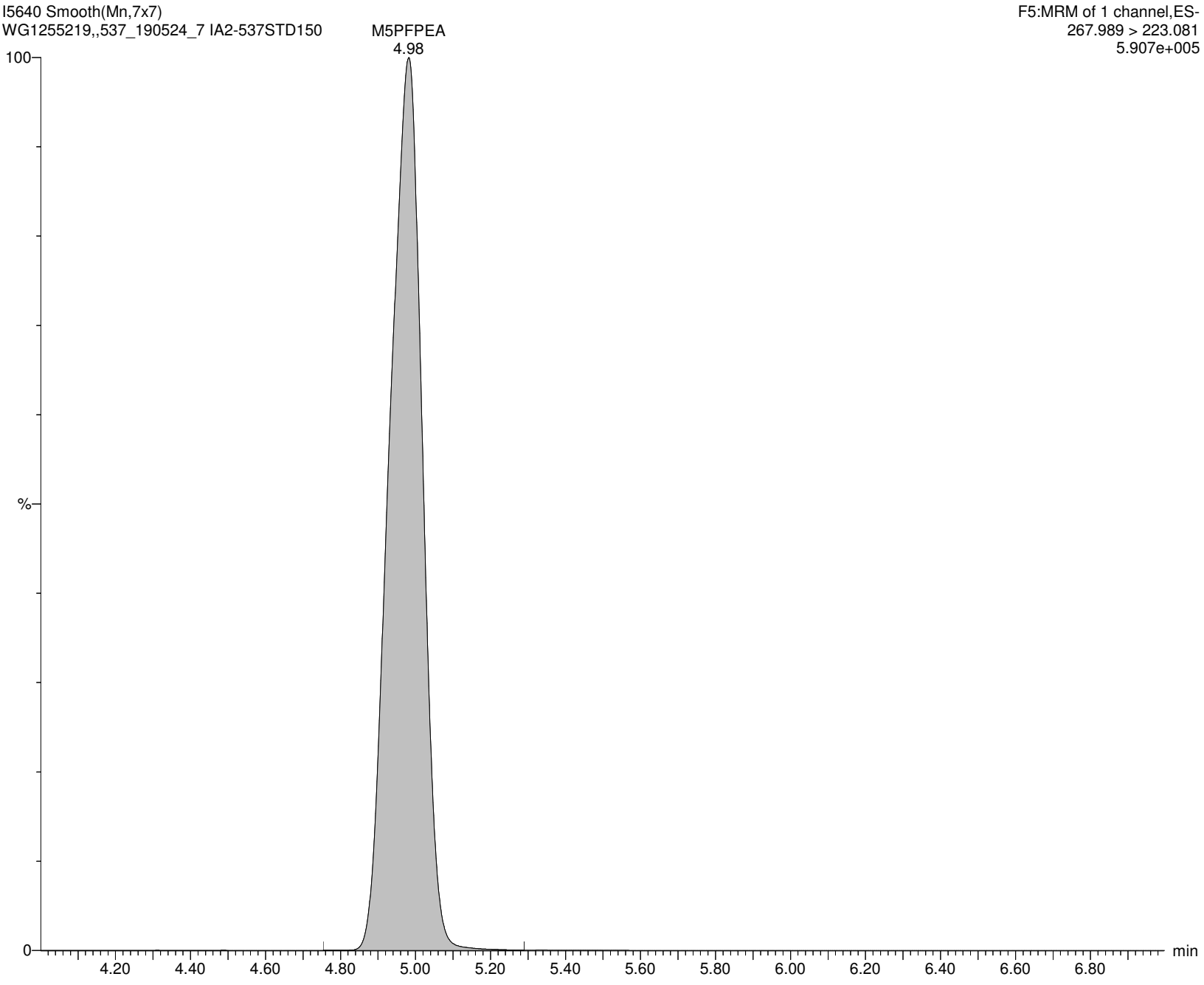


all concentration units in (ng/mL)

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MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

M5PFPEA

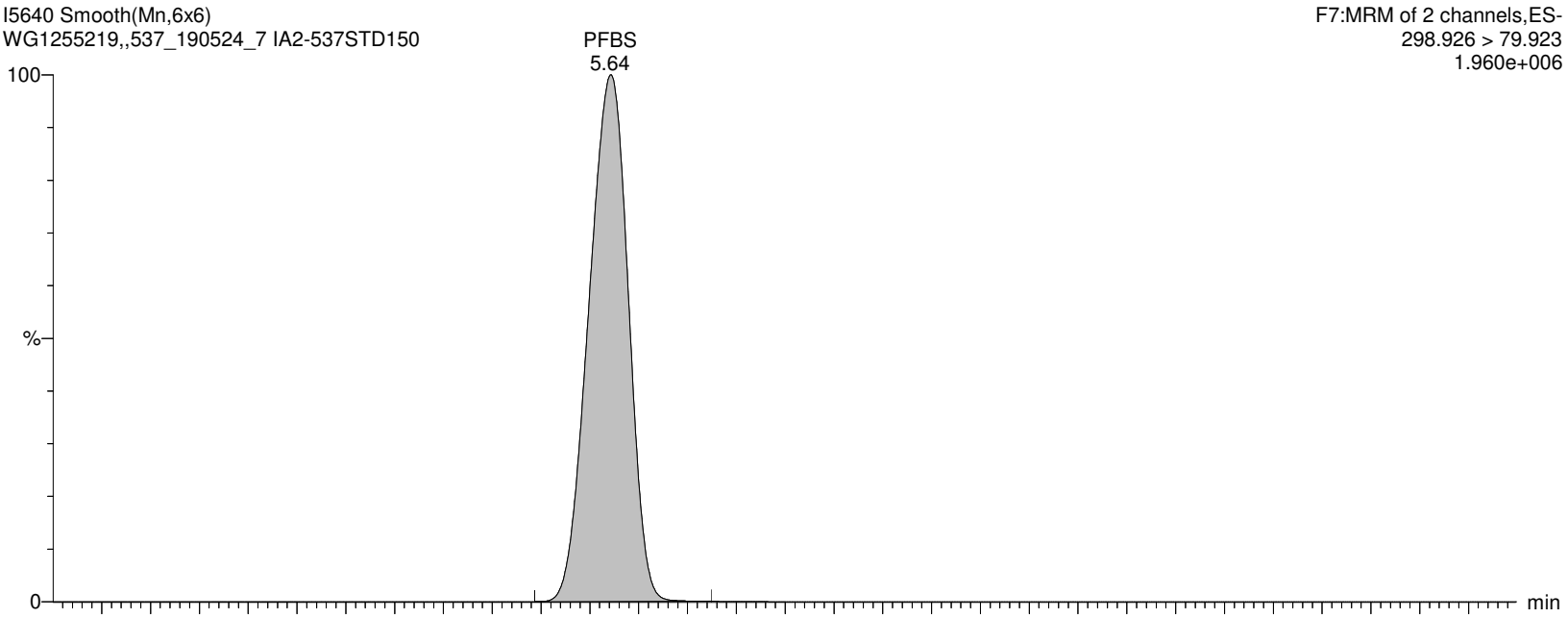


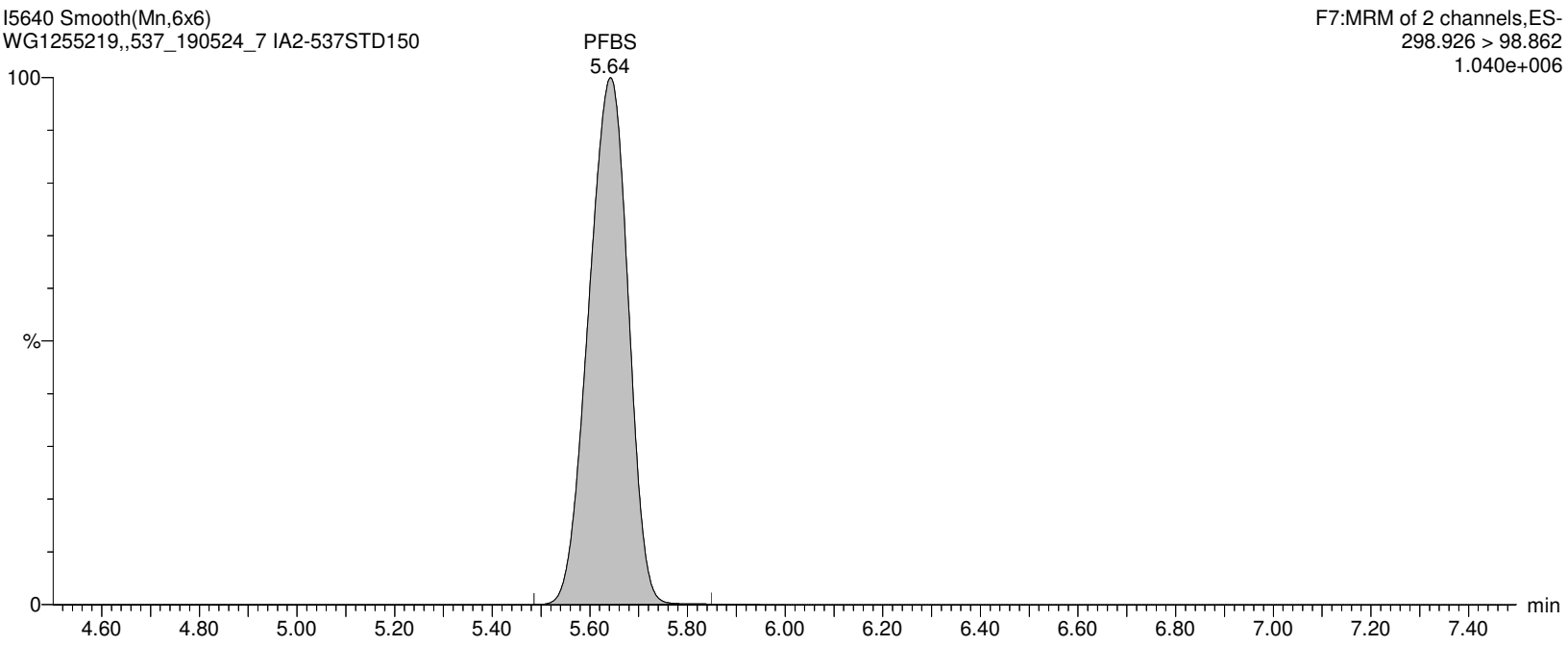
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User: LCMS02:JW
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MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

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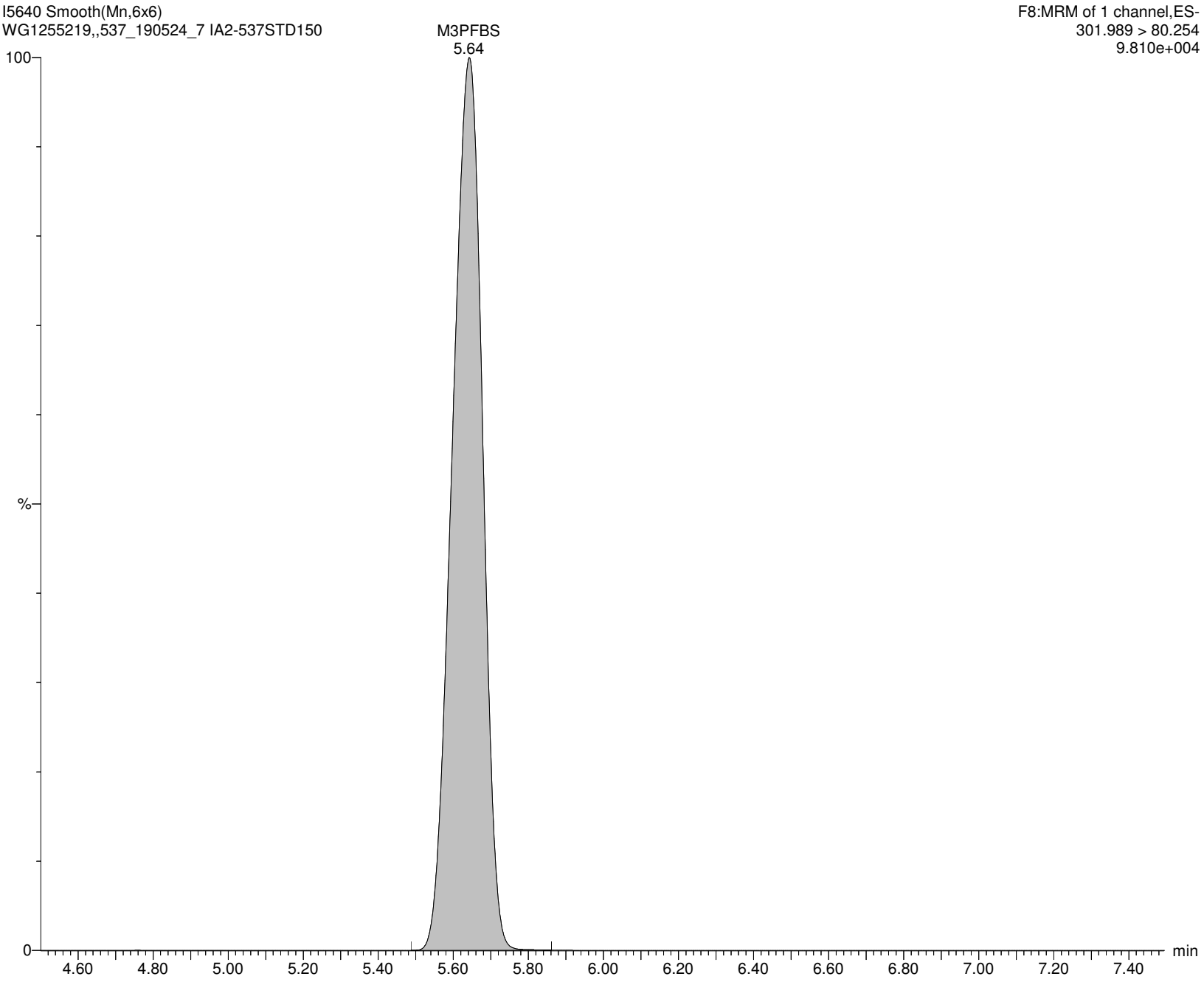


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:41 Eastern Daylight Time

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ID: IA2-537STD150
Date: 01-Jul-2019
Time: 19:36:40
Description: WG1255219,,537_190524_7
User: LCMS02:JW
Vial: 1:A,8
Instrument: XEVO-TQSmicro#QEB0050
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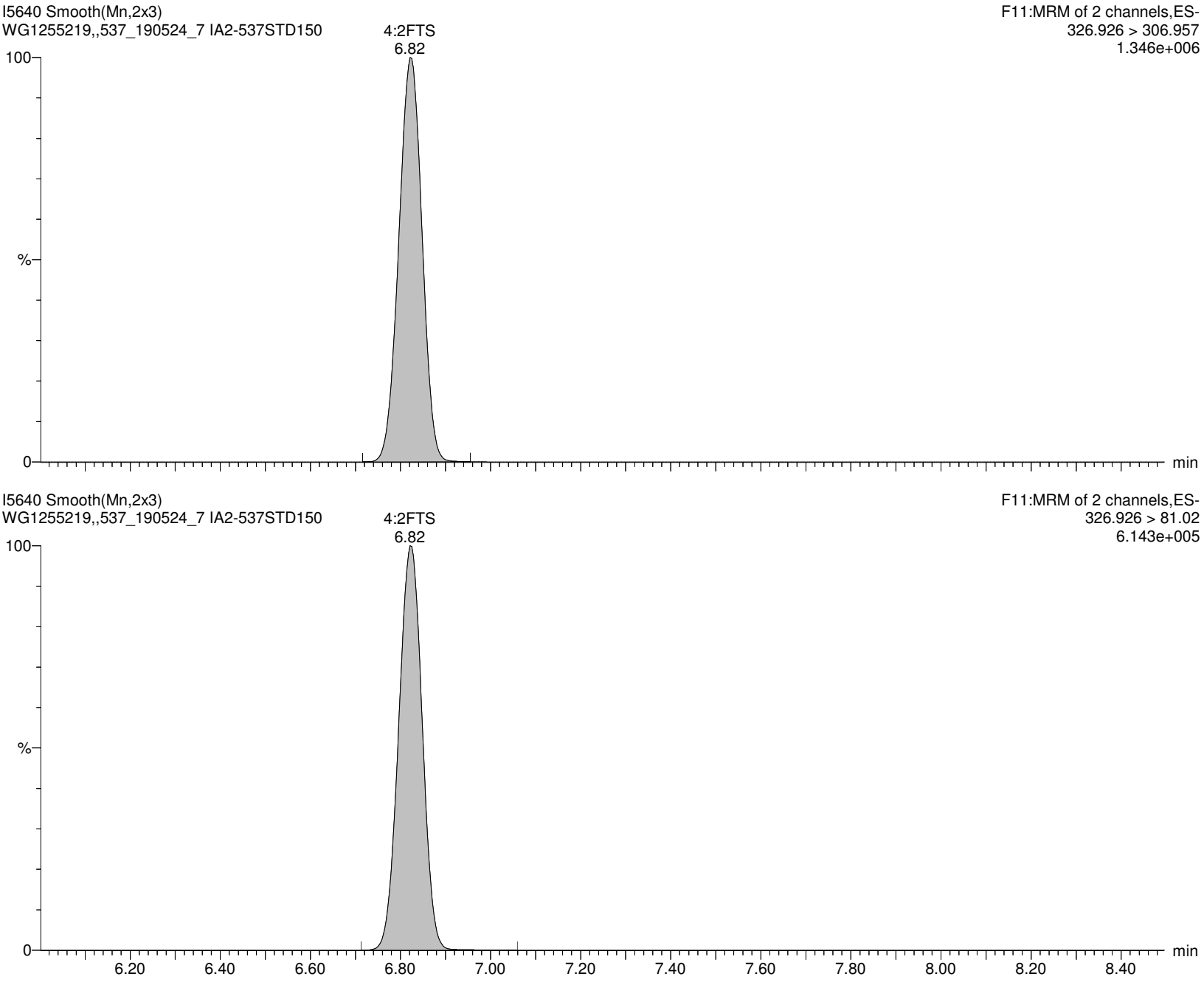


all concentration units in (ng/mL)

Alpha Analytical Inc.
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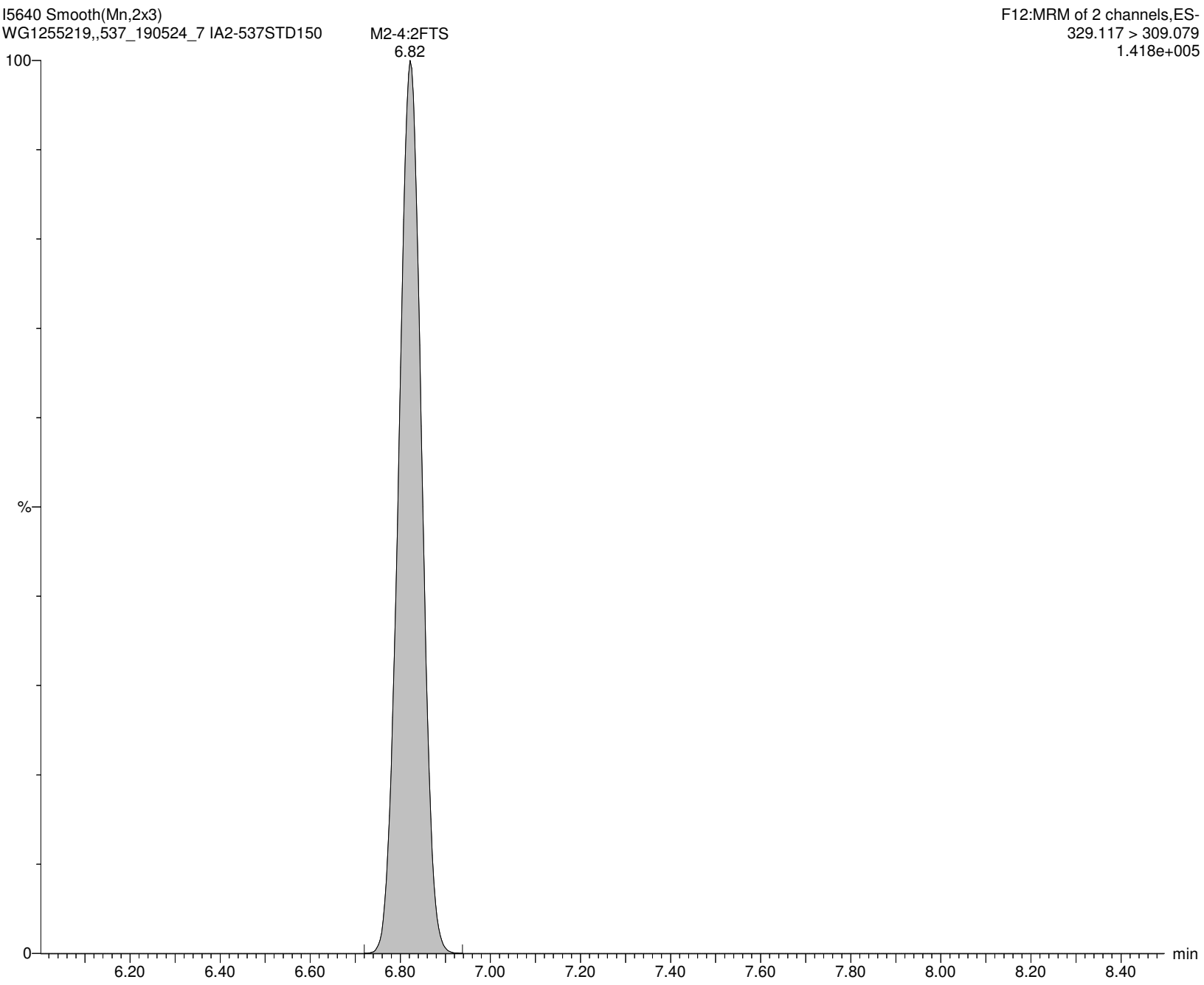


all concentration units in (ng/mL)

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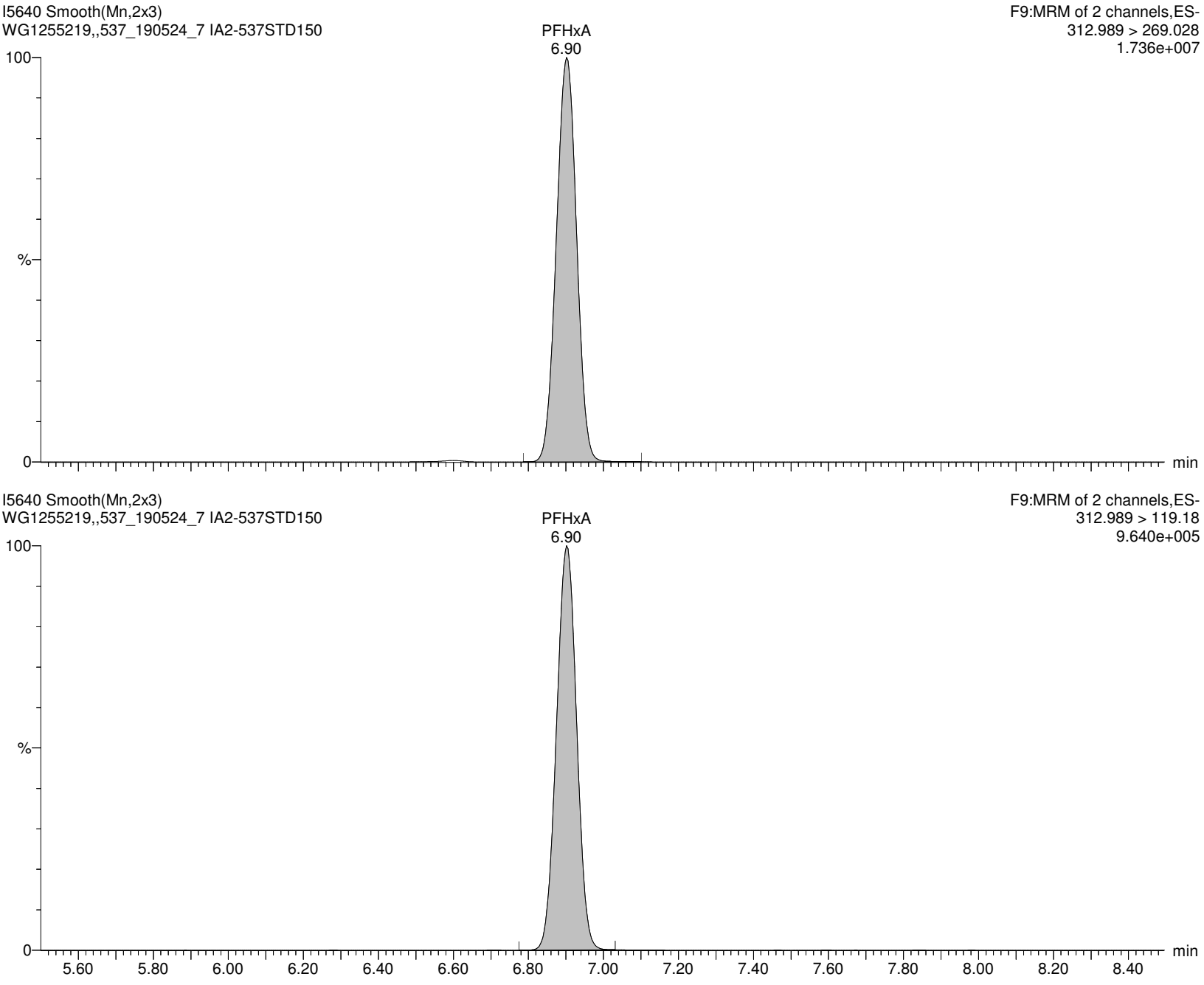


all concentration units in (ng/mL)

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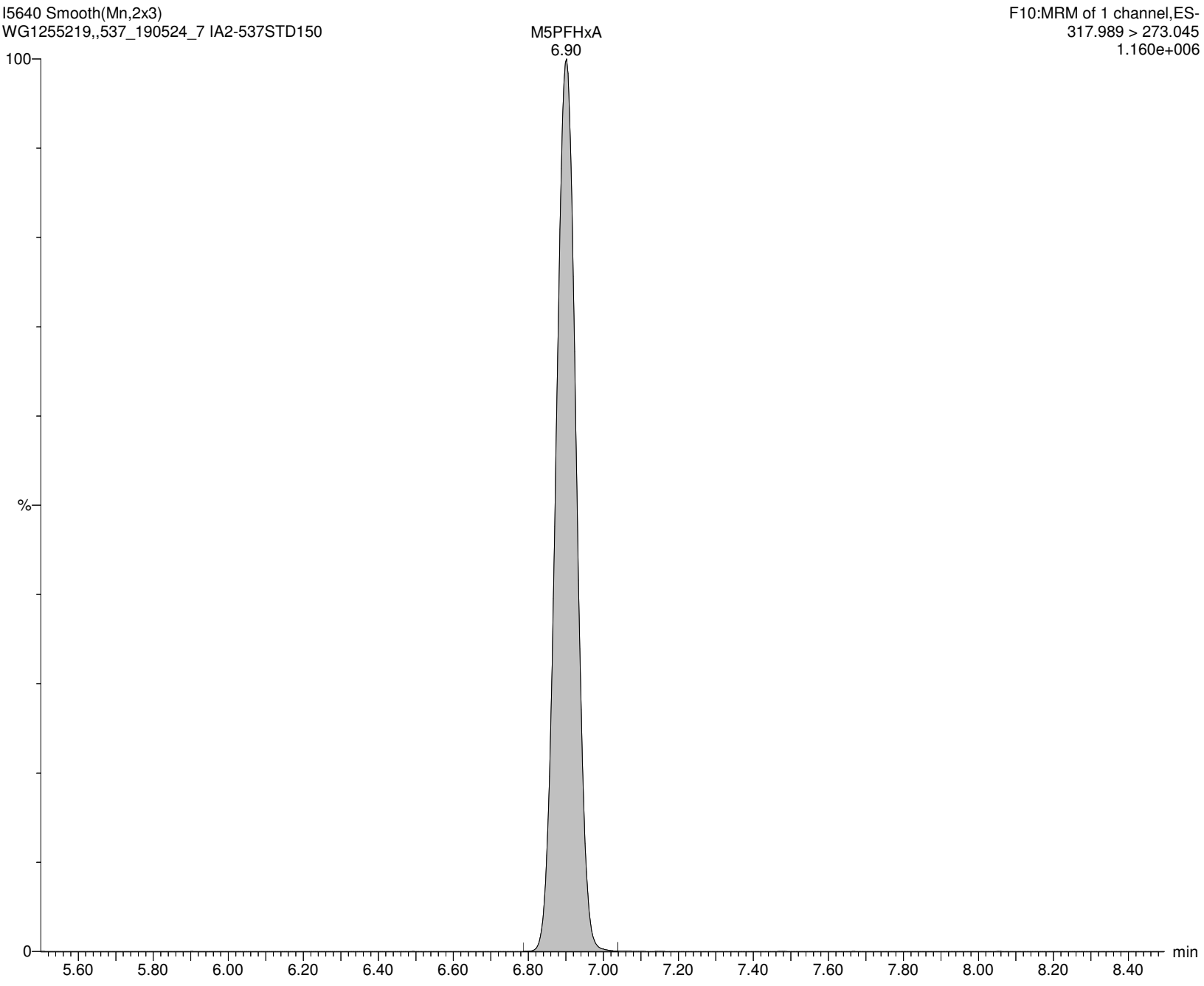


all concentration units in (ng/mL)

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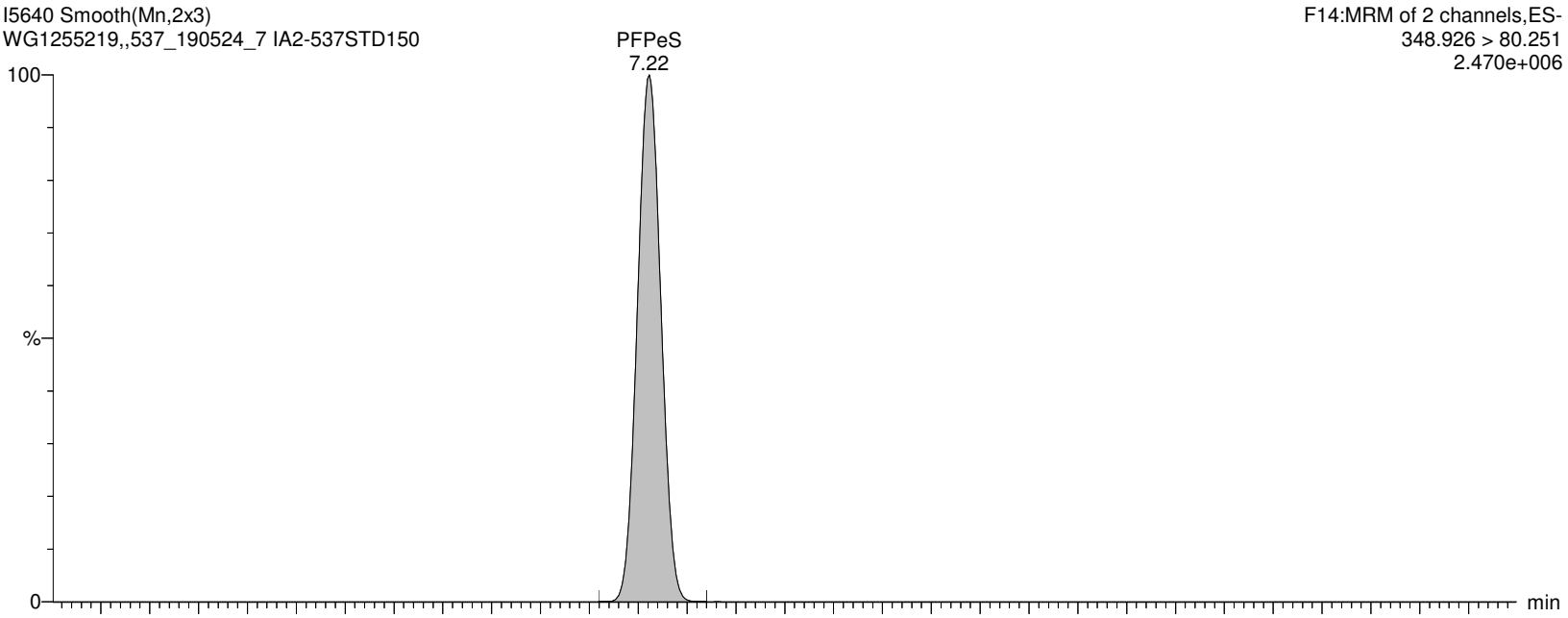


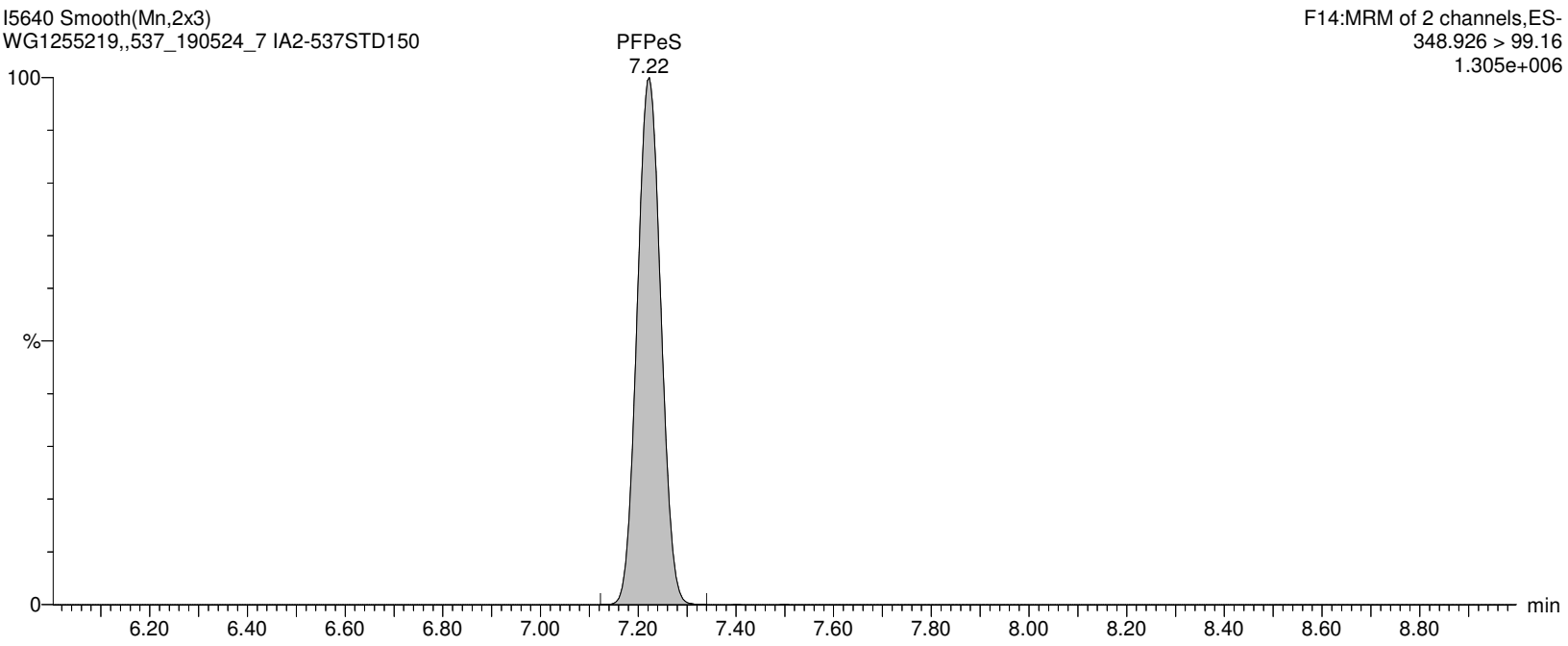
all concentration units in (ng/mL)

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PFPeS



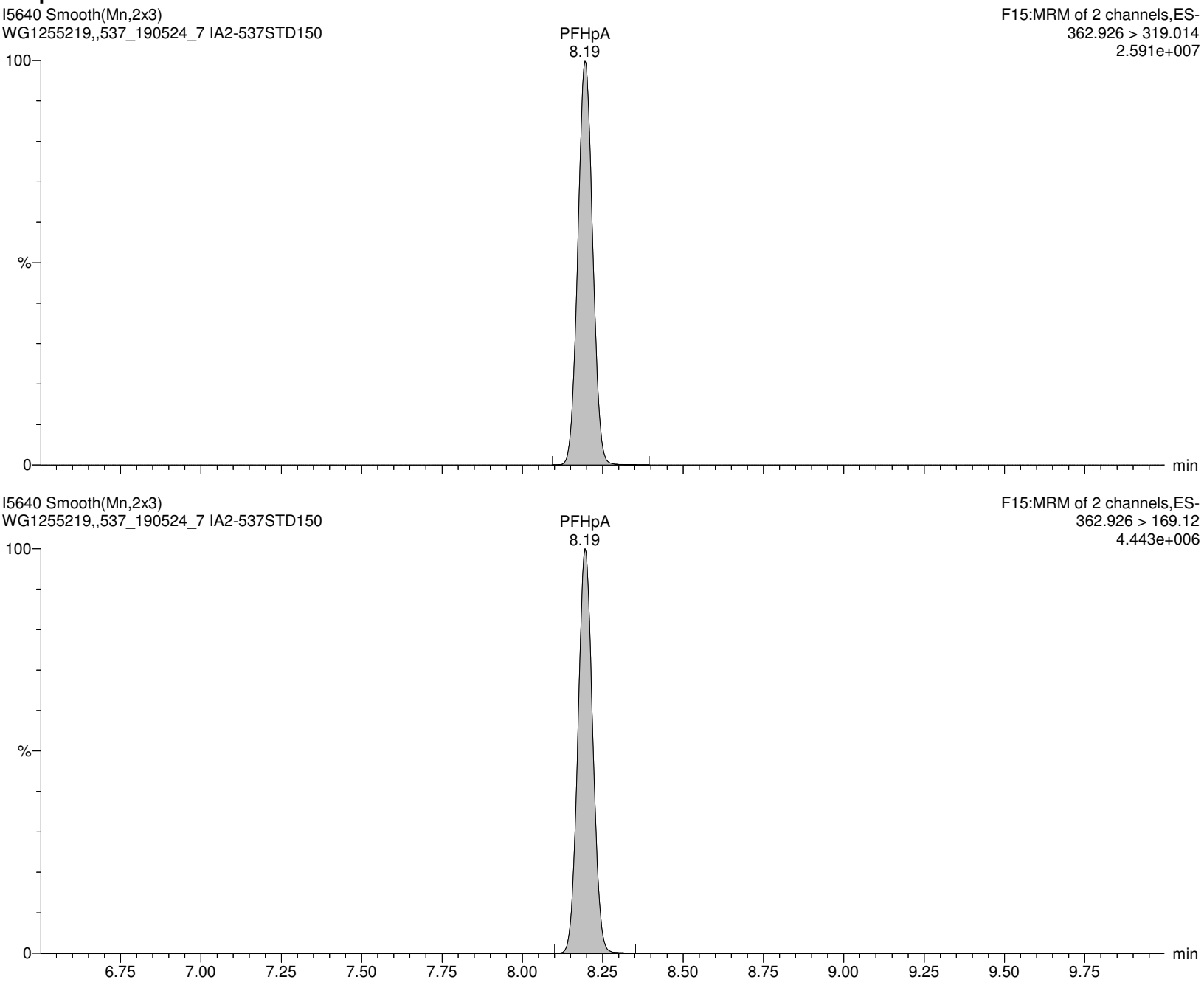


all concentration units in (ng/mL)

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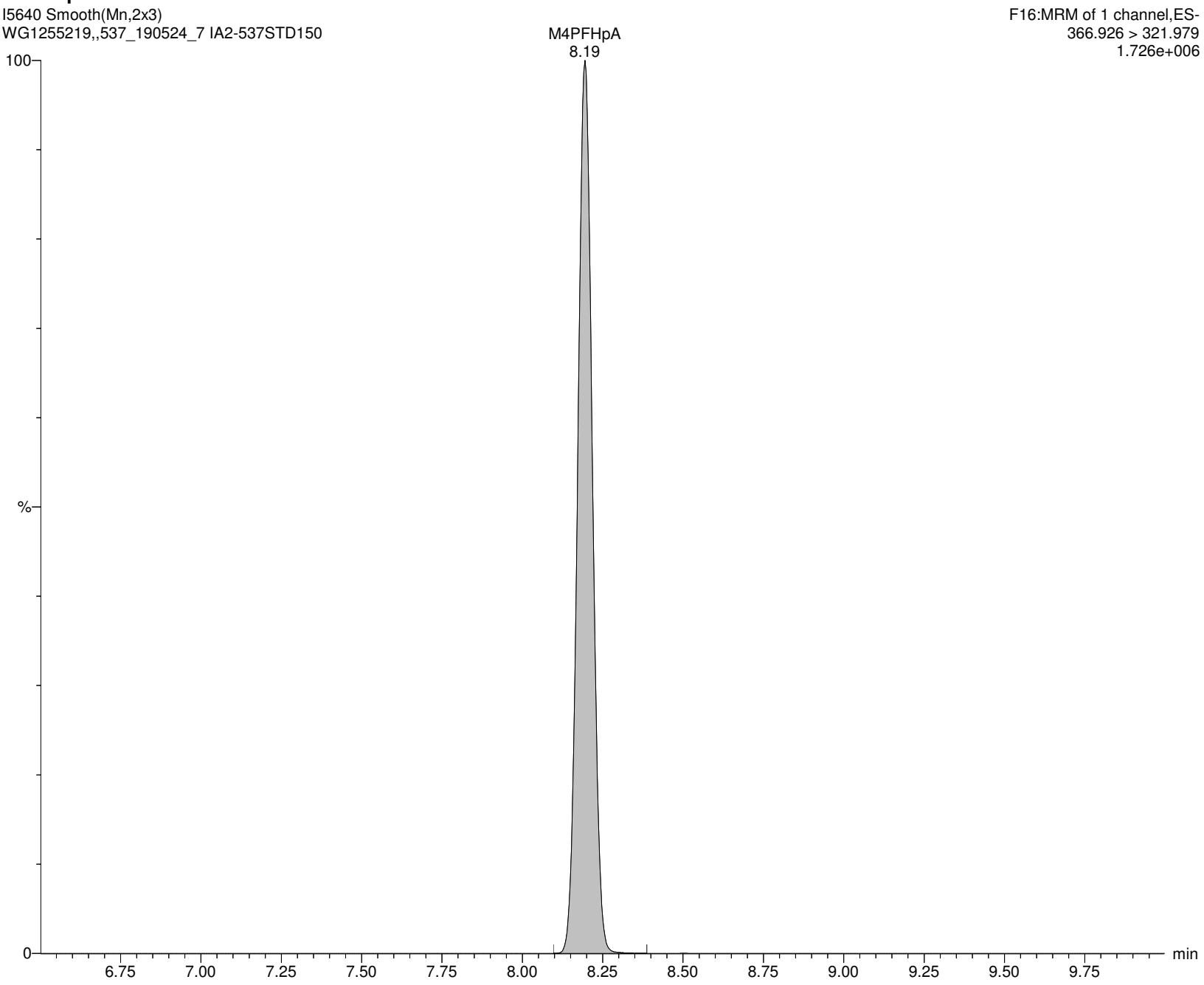


all concentration units in (ng/mL)

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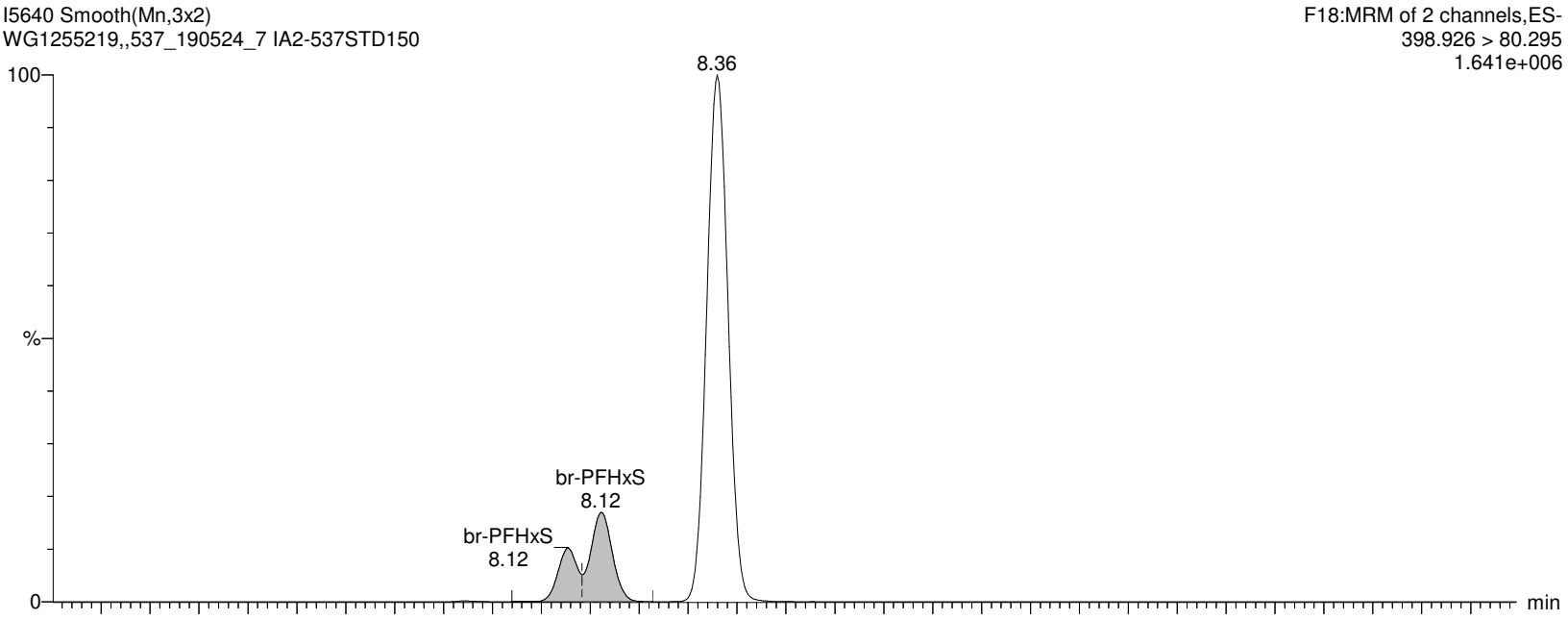


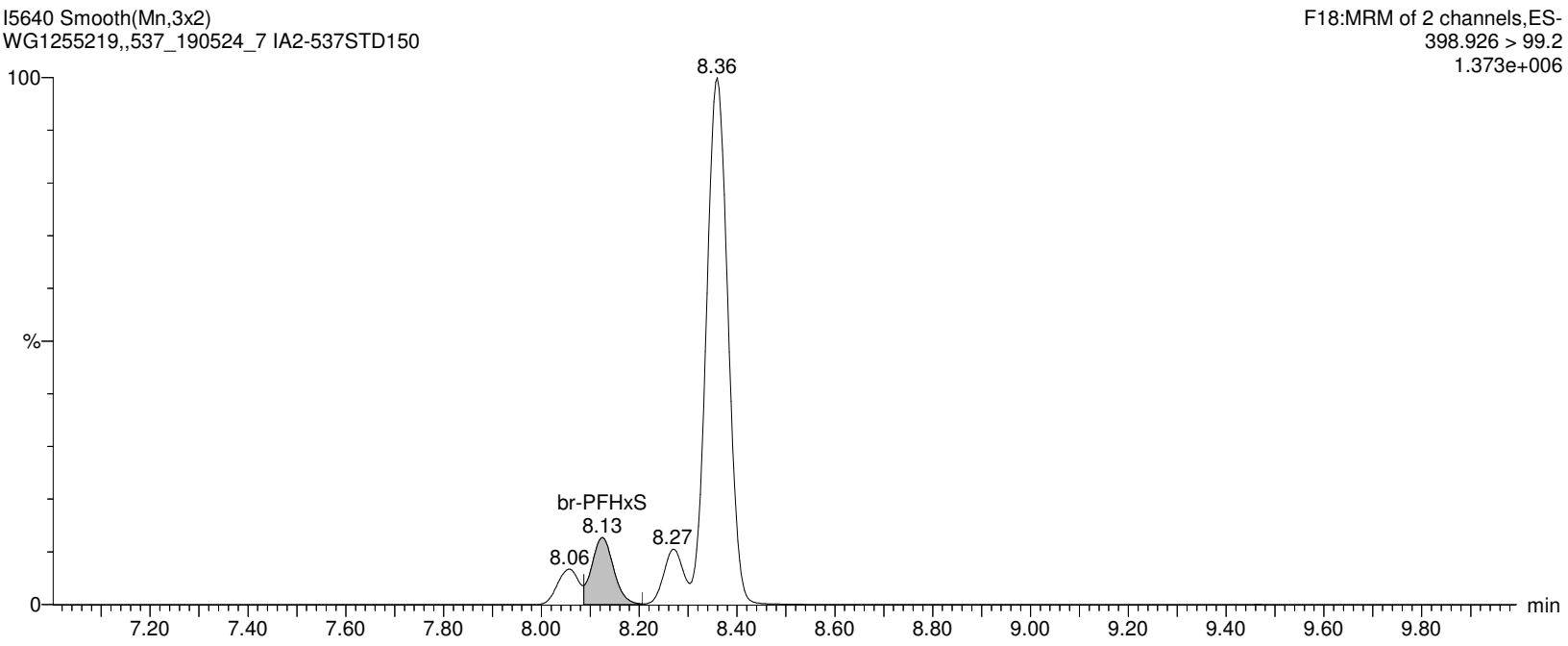
all concentration units in (ng/mL)

Alpha Analytical Inc.
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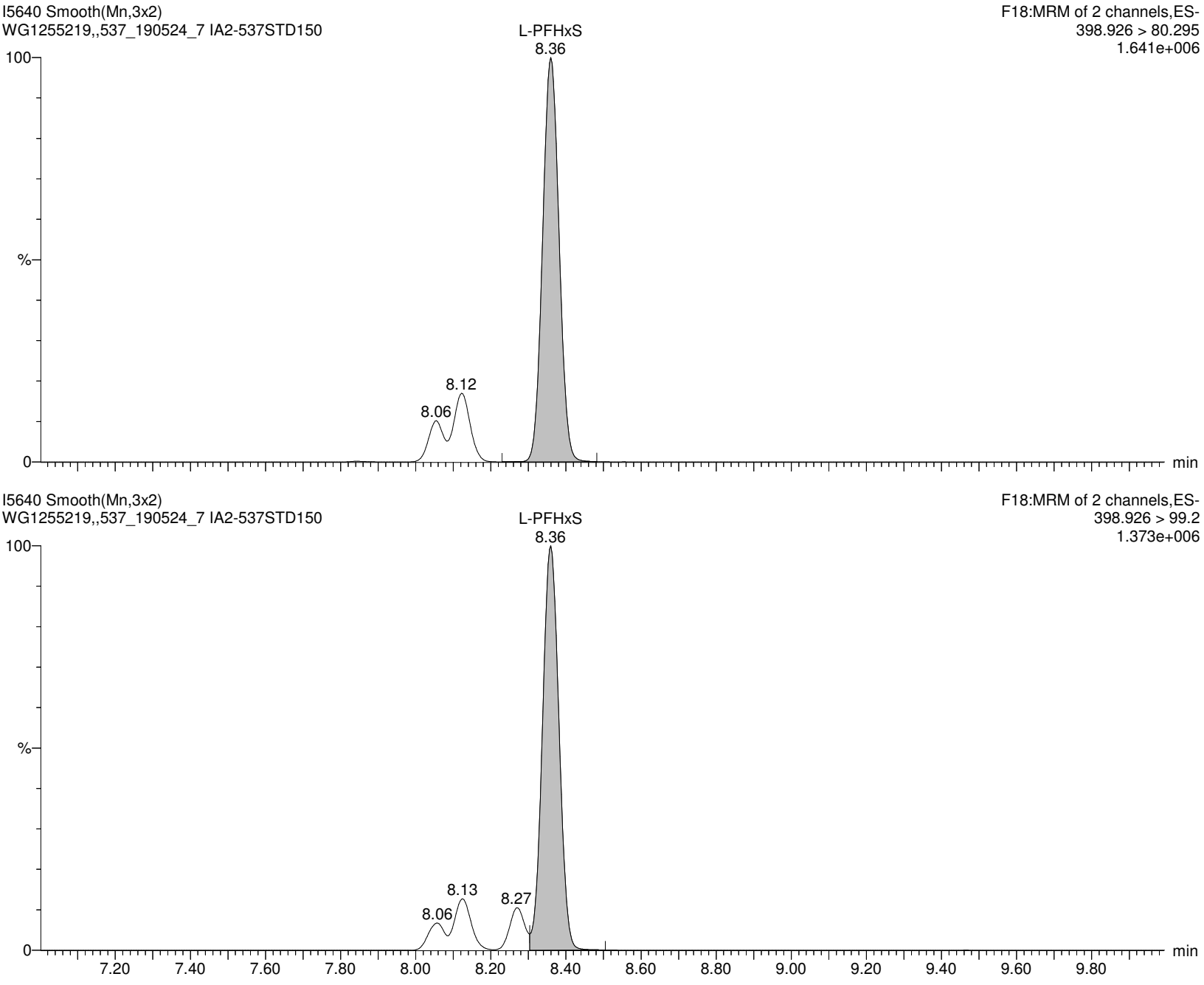


all concentration units in (ng/mL)

Alpha Analytical Inc.
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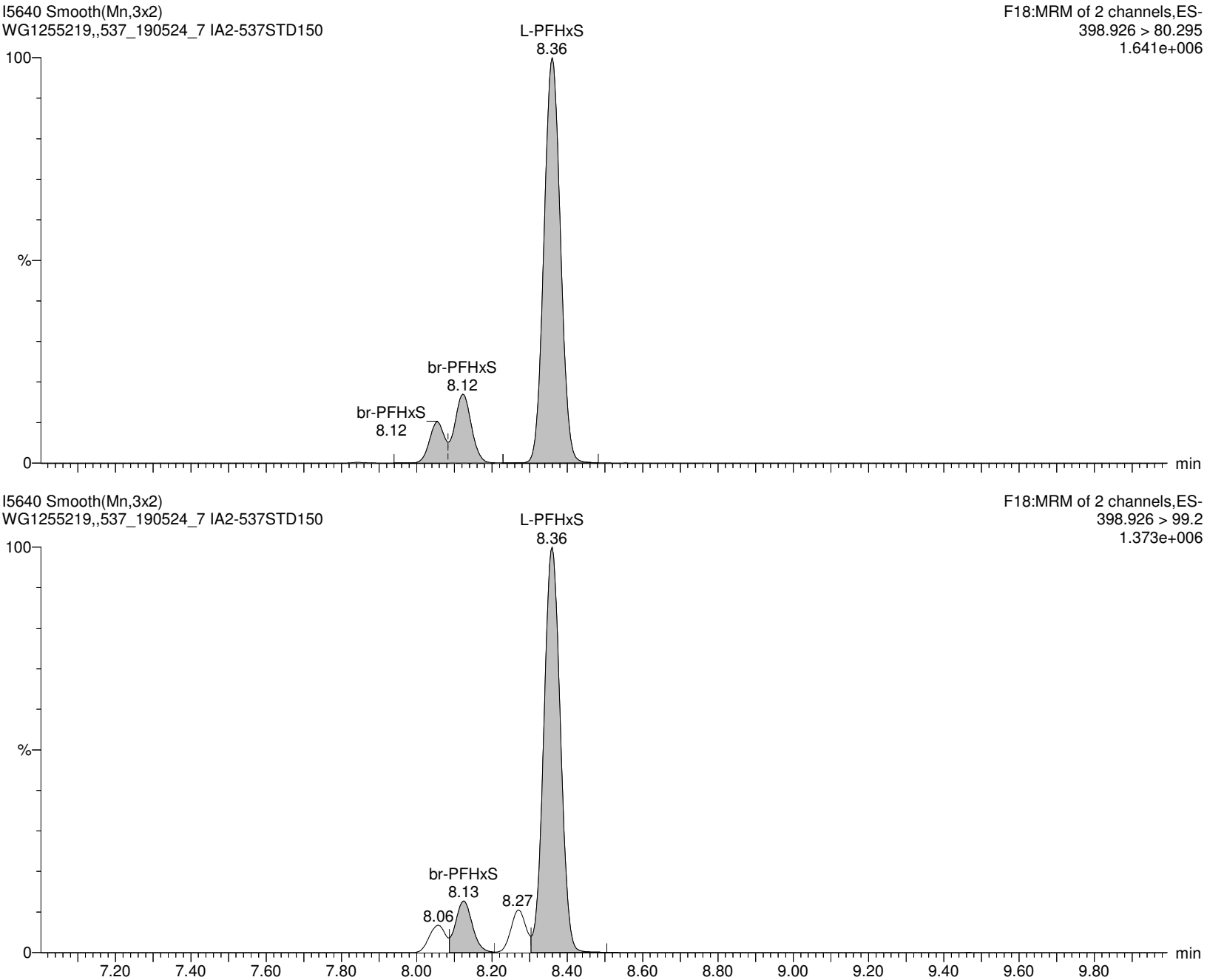


all concentration units in (ng/mL)

Alpha Analytical Inc.
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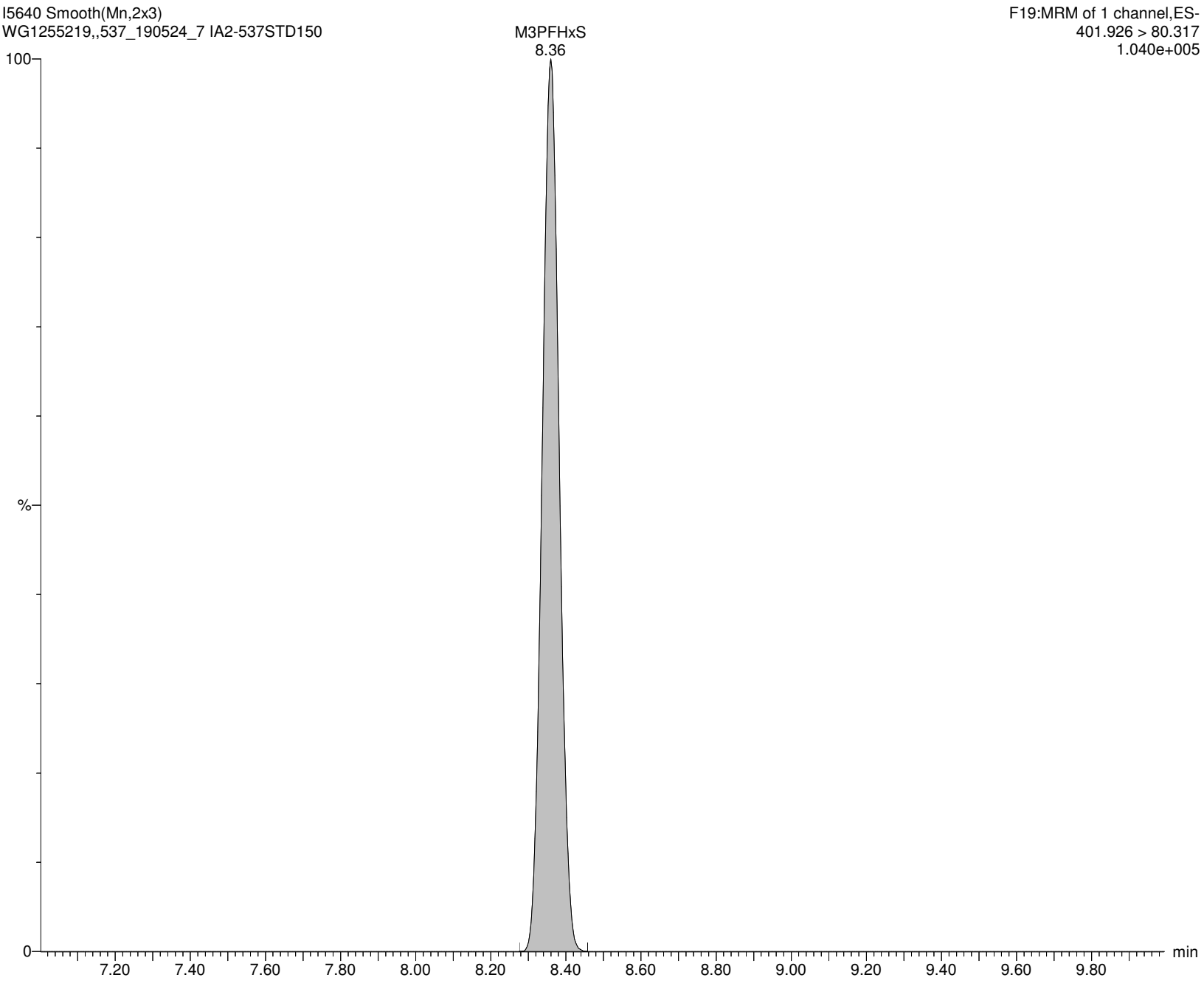


all concentration units in (ng/mL)

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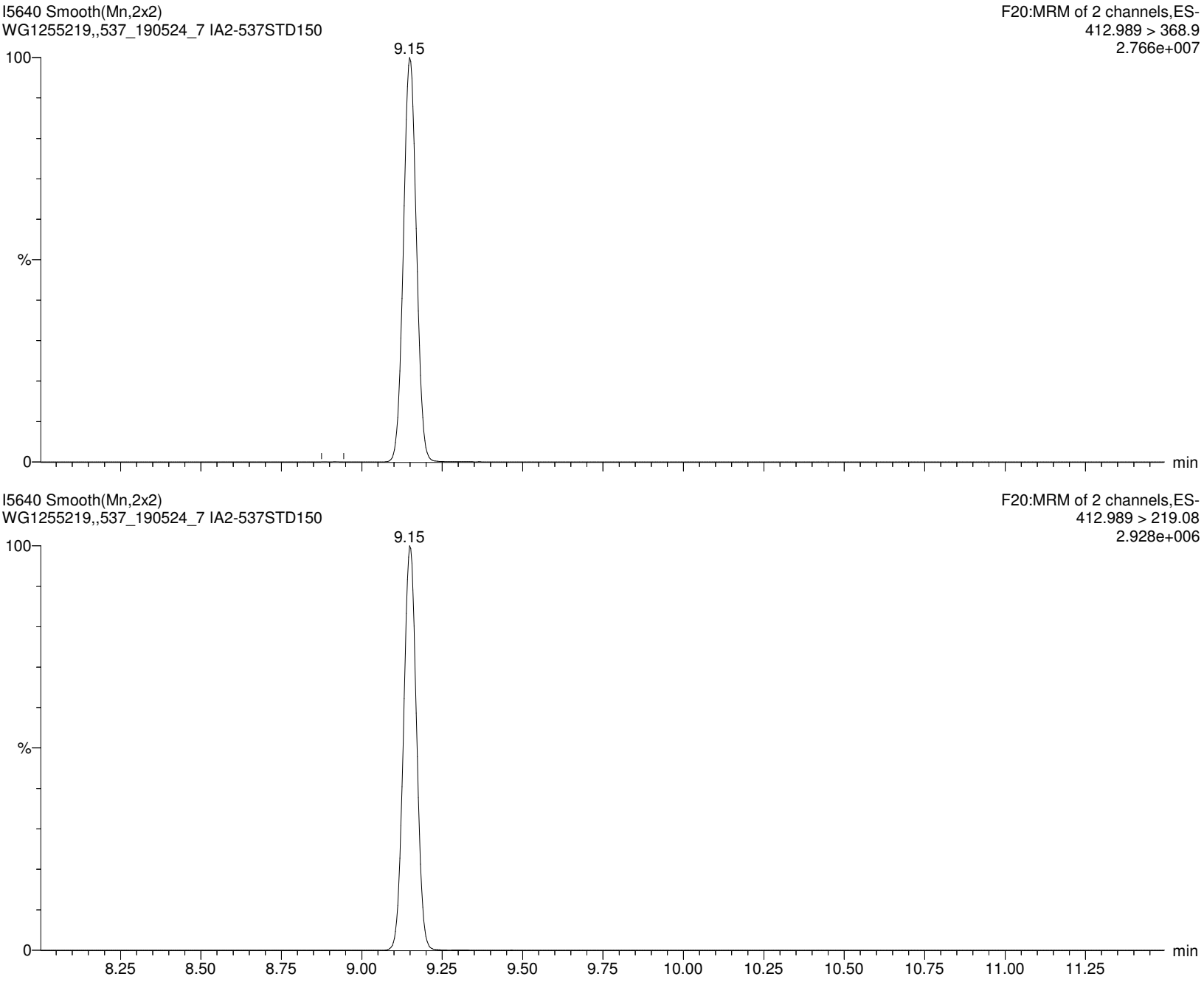


all concentration units in (ng/mL)

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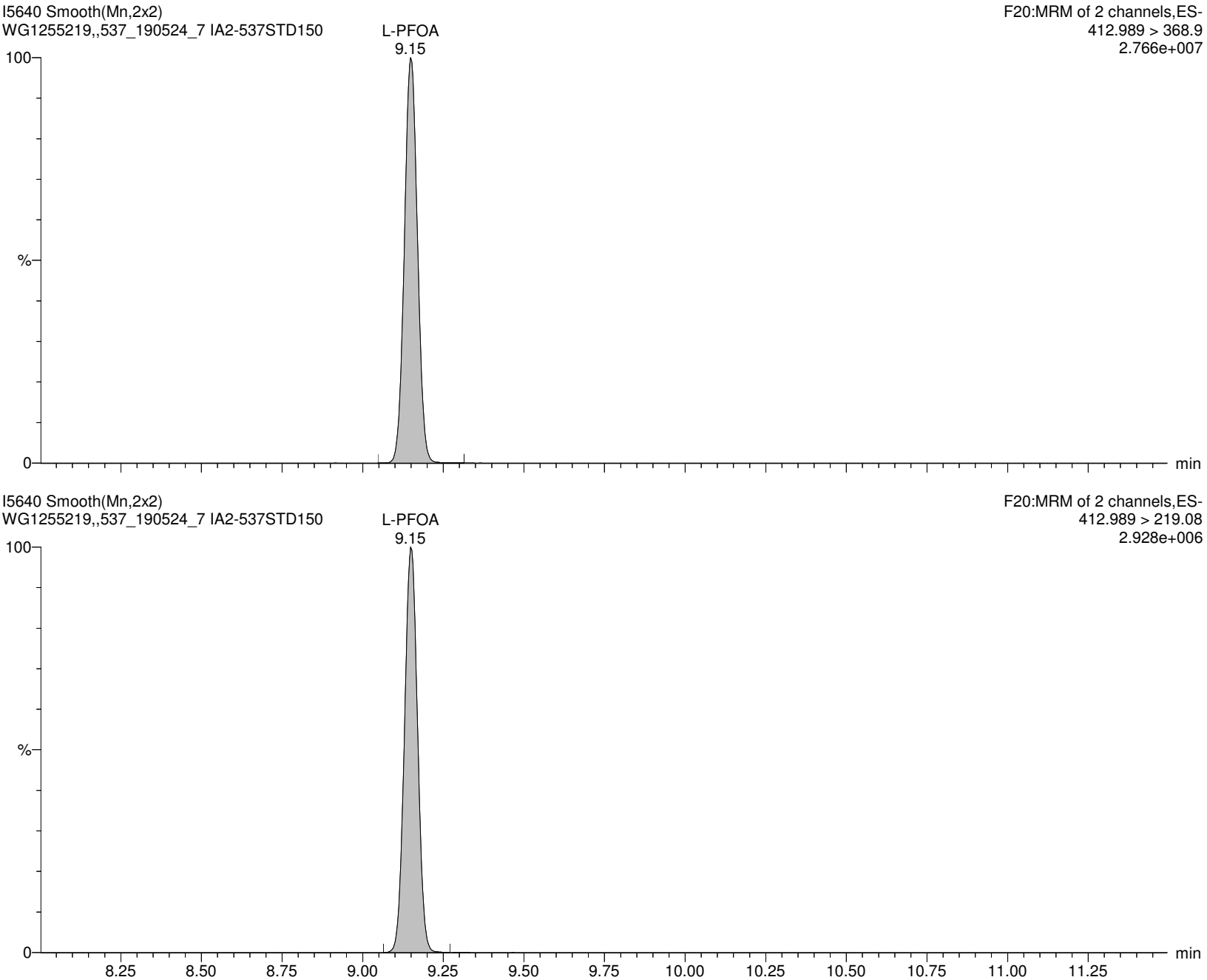


all concentration units in (ng/mL)

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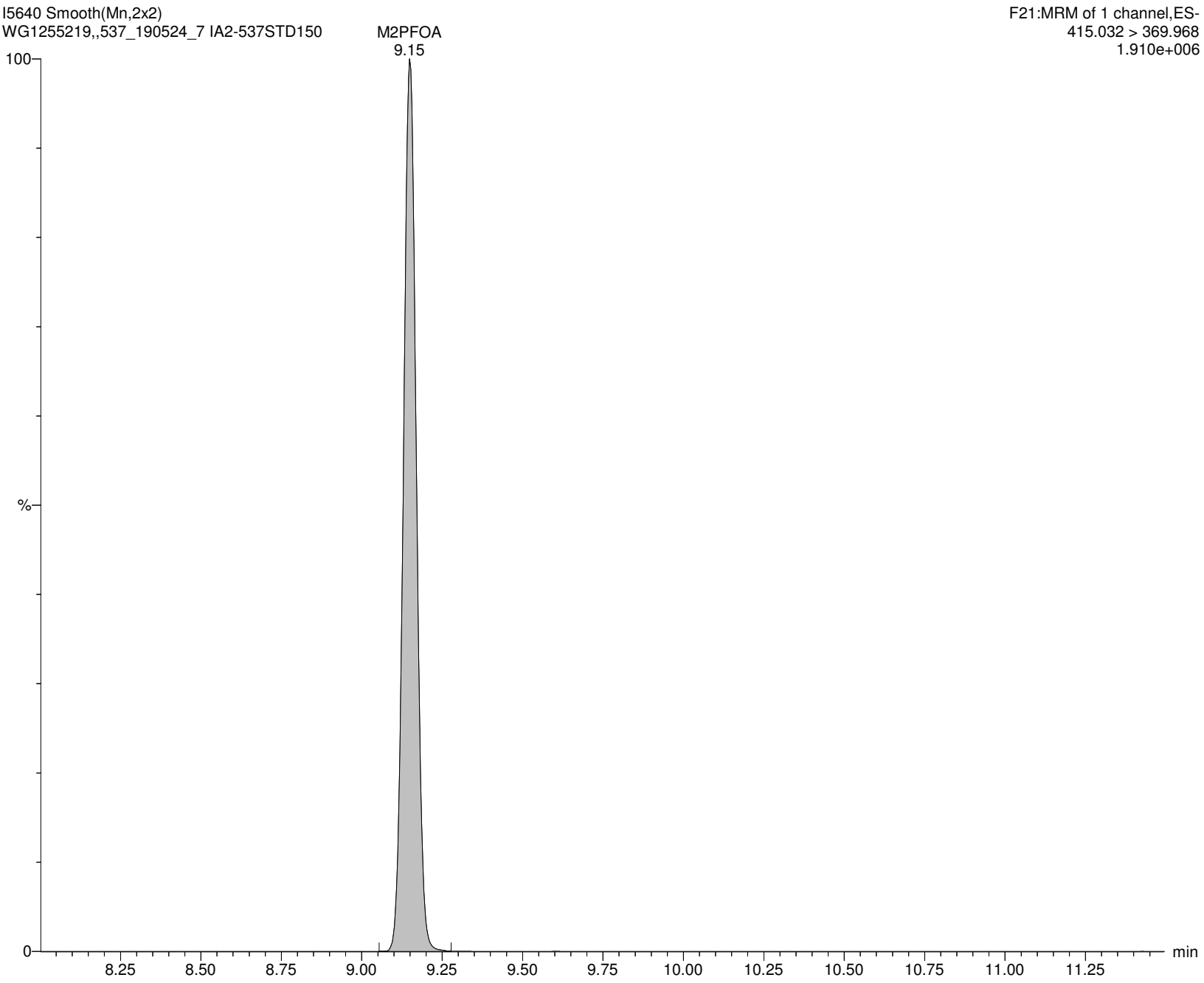


all concentration units in (ng/mL)

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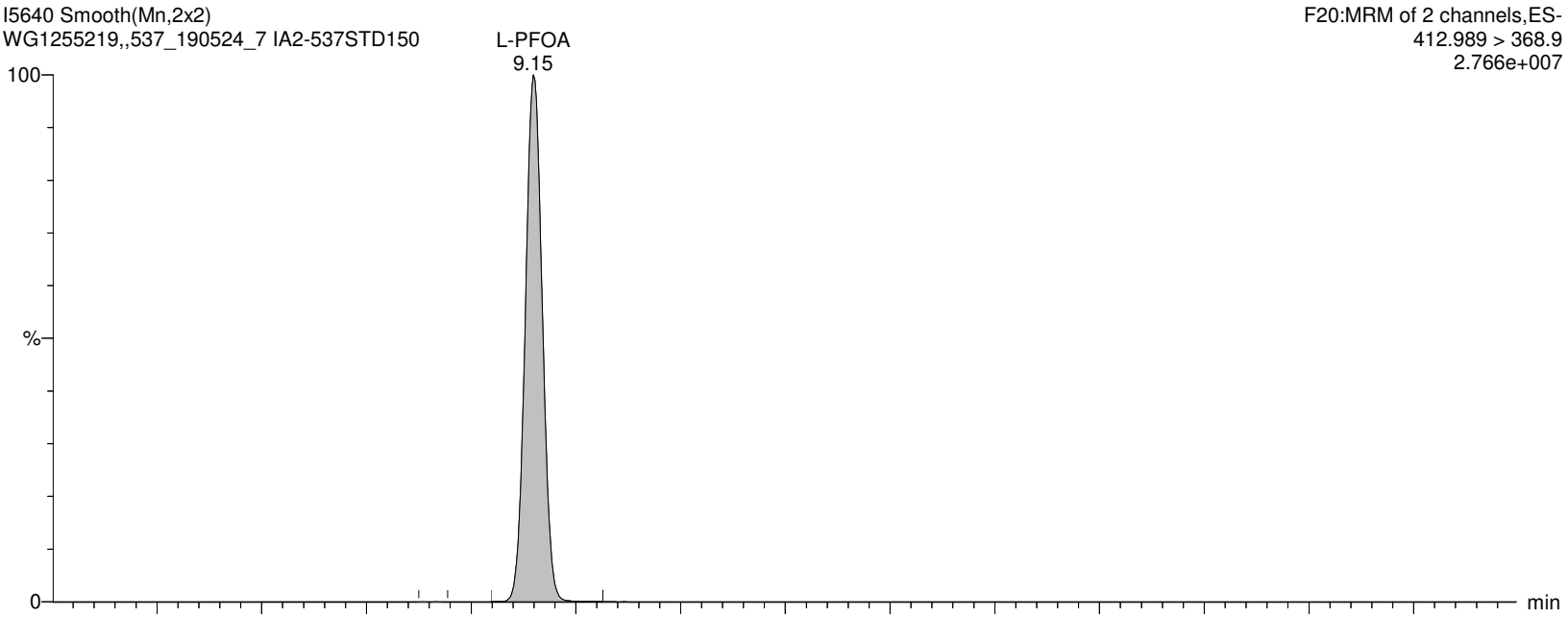


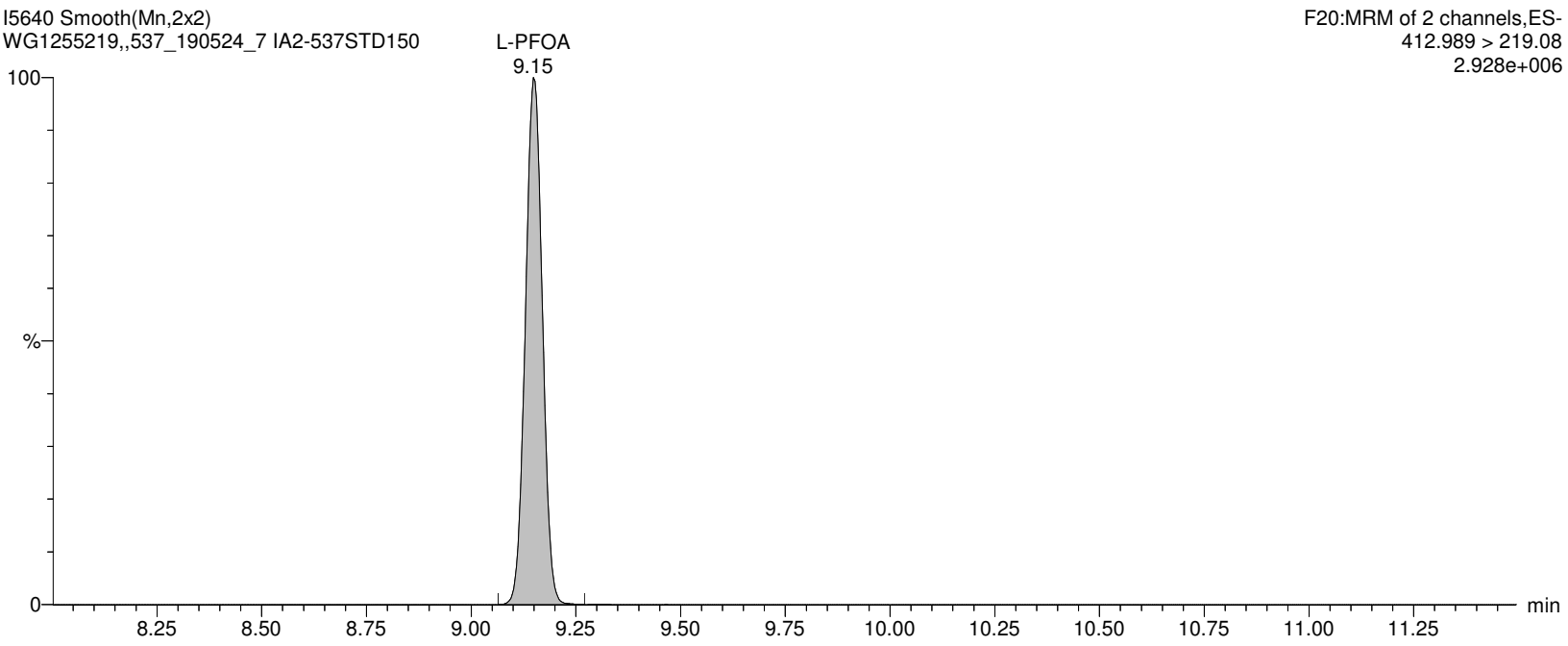
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PFOA



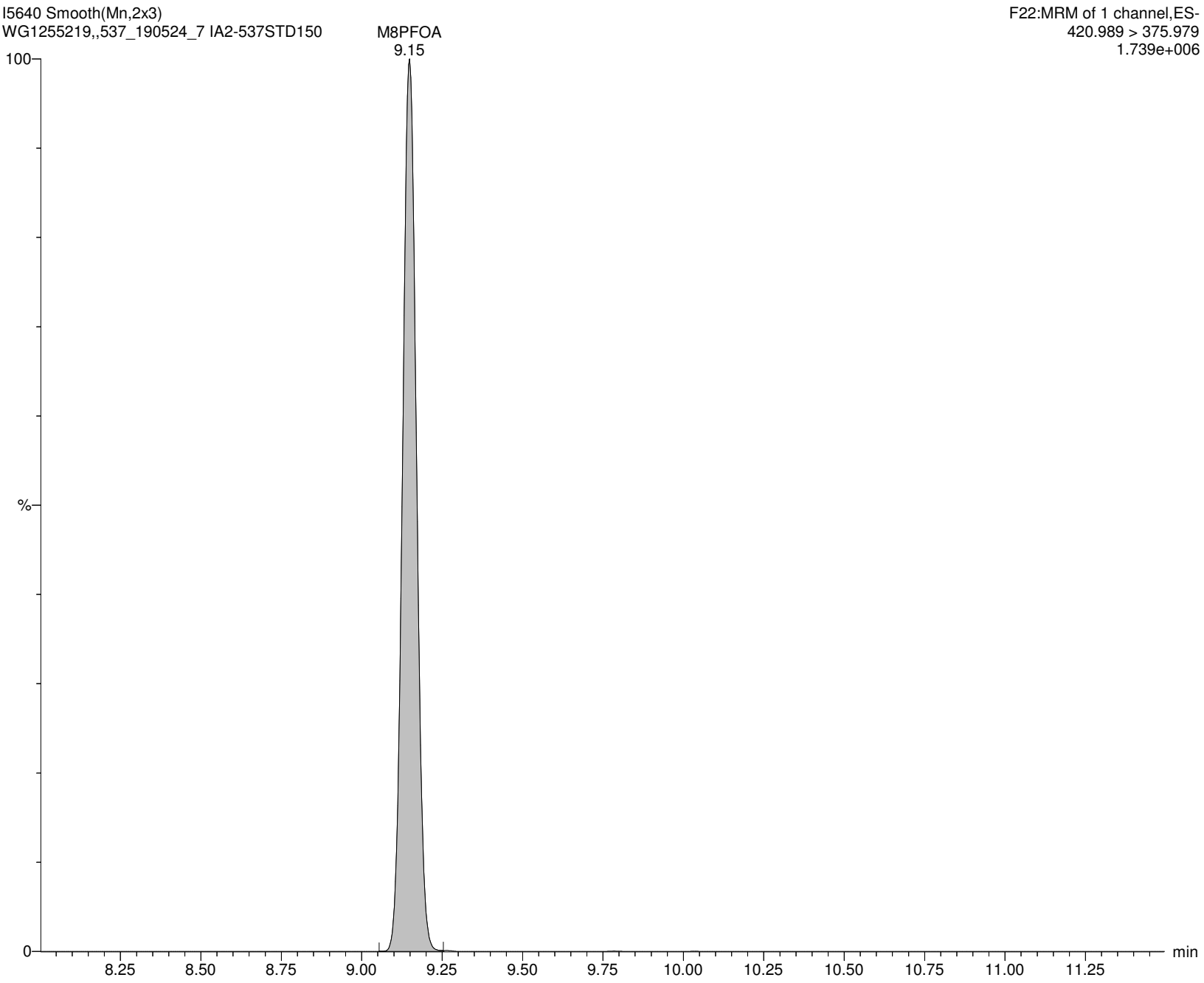


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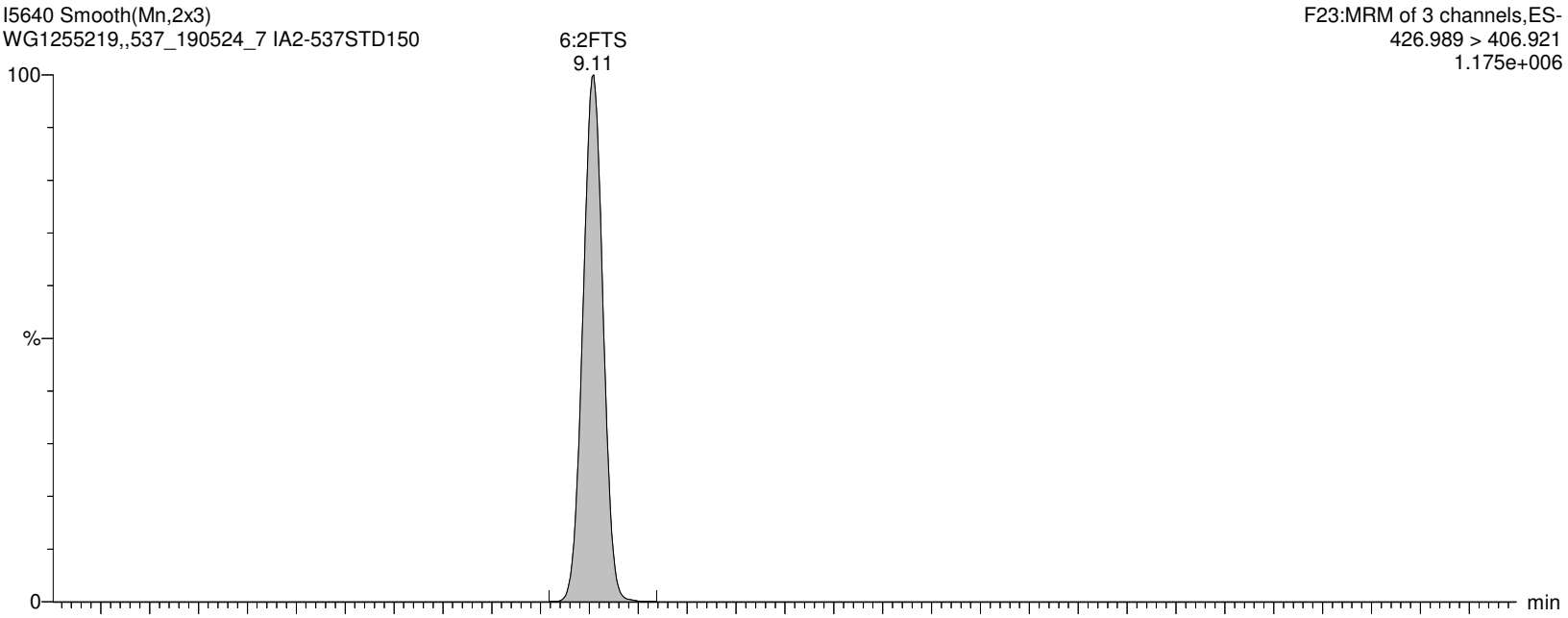


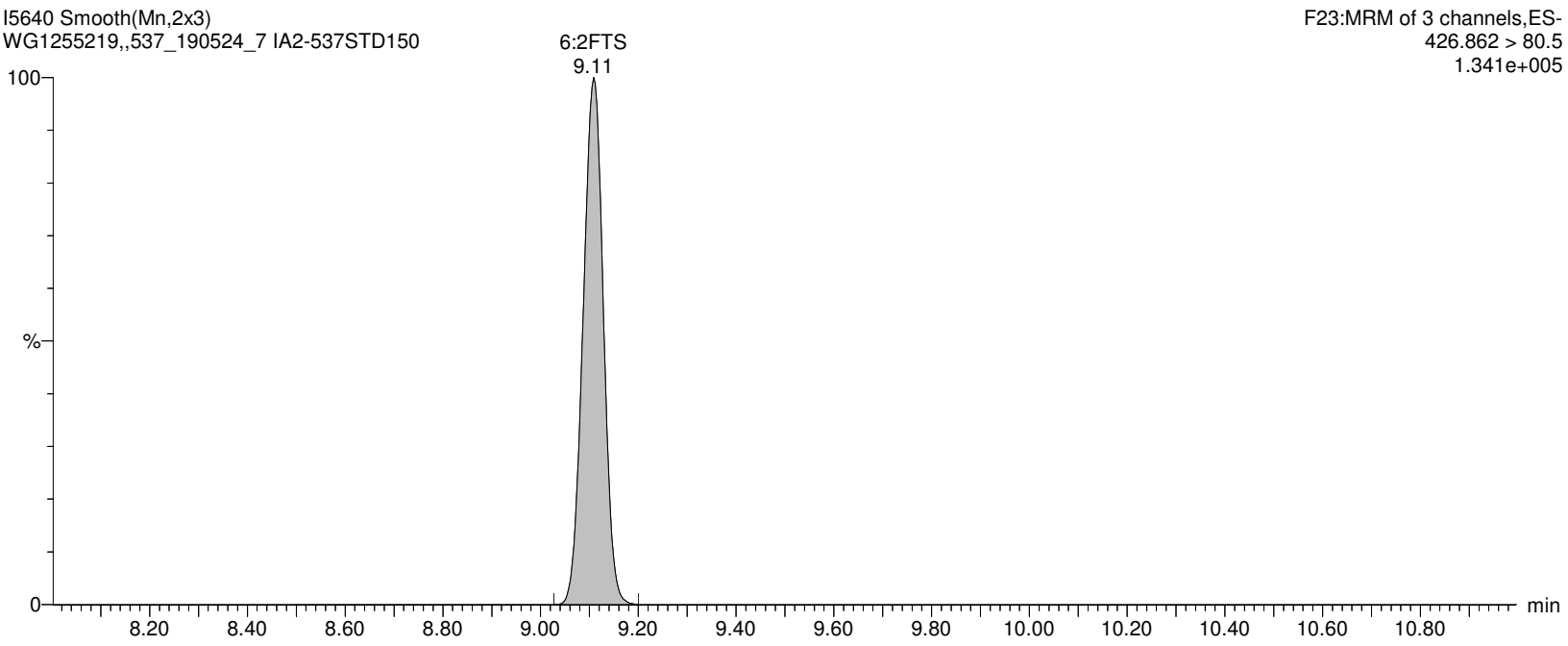
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:41 Eastern Daylight Time

Name: I5640
ID: IA2-537STD150
Date: 01-Jul-2019
Time: 19:36:40
Description: WG1255219,,537_190524_7
User: LCMS02:JW
Vial: 1:A,8
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
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6:2FTS



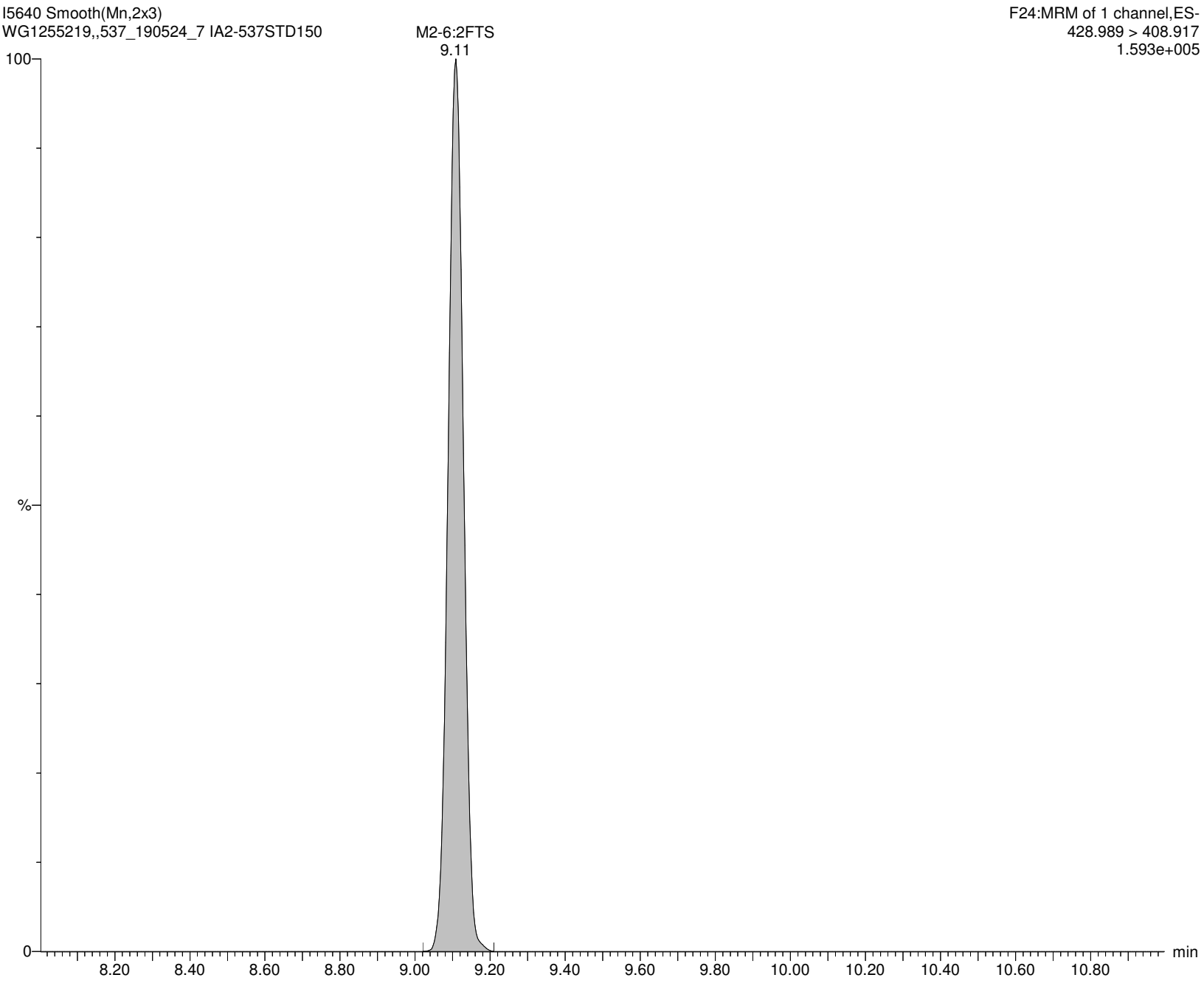


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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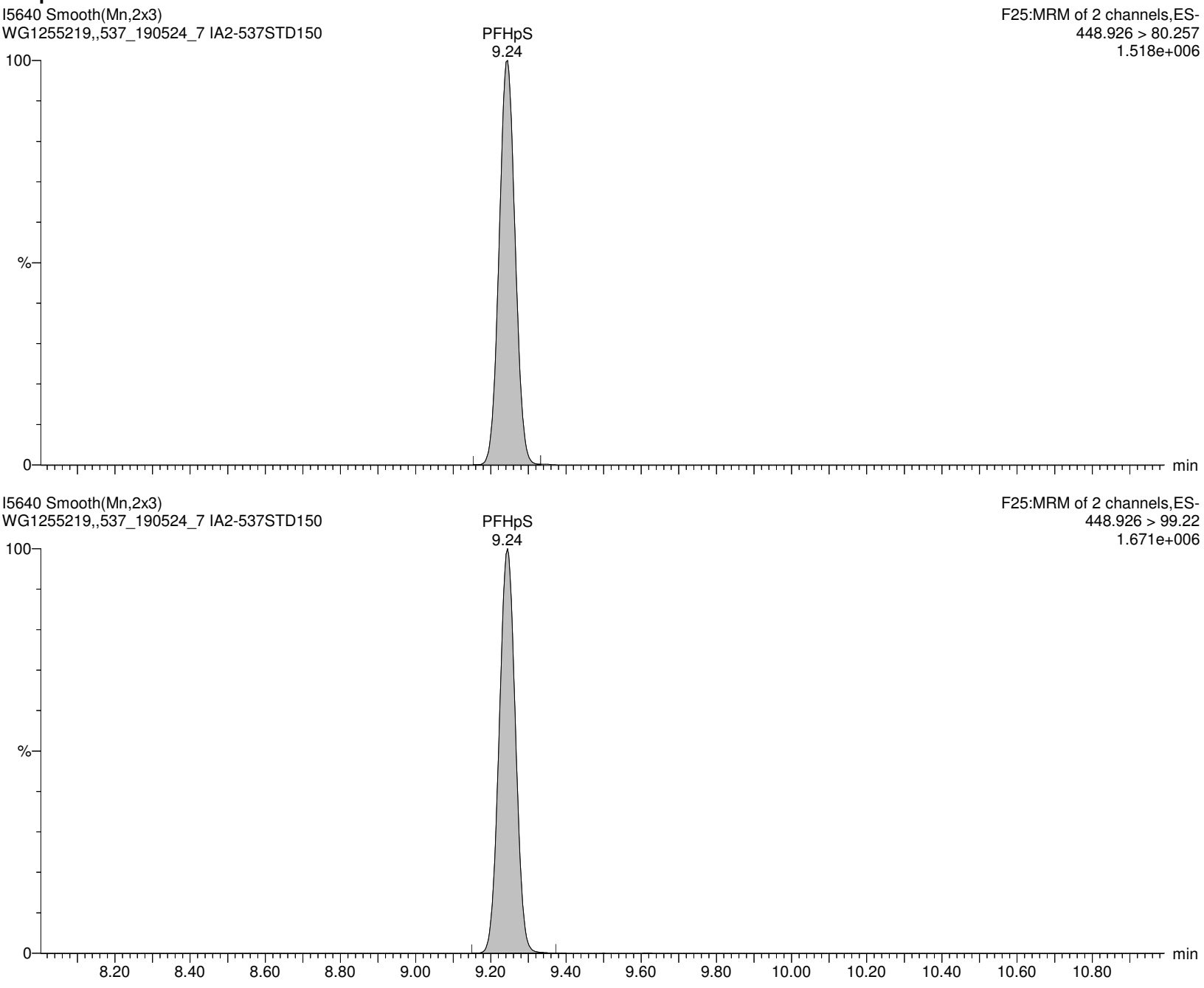


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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PFHpS

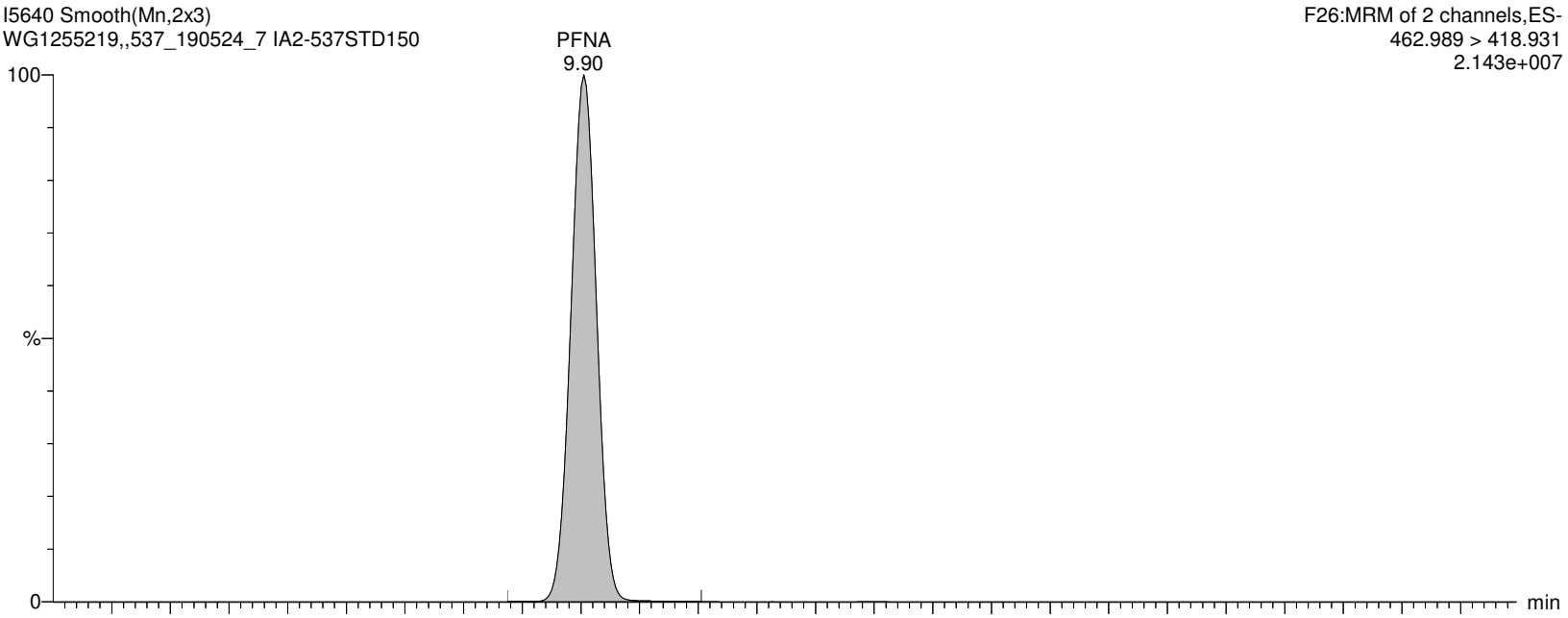


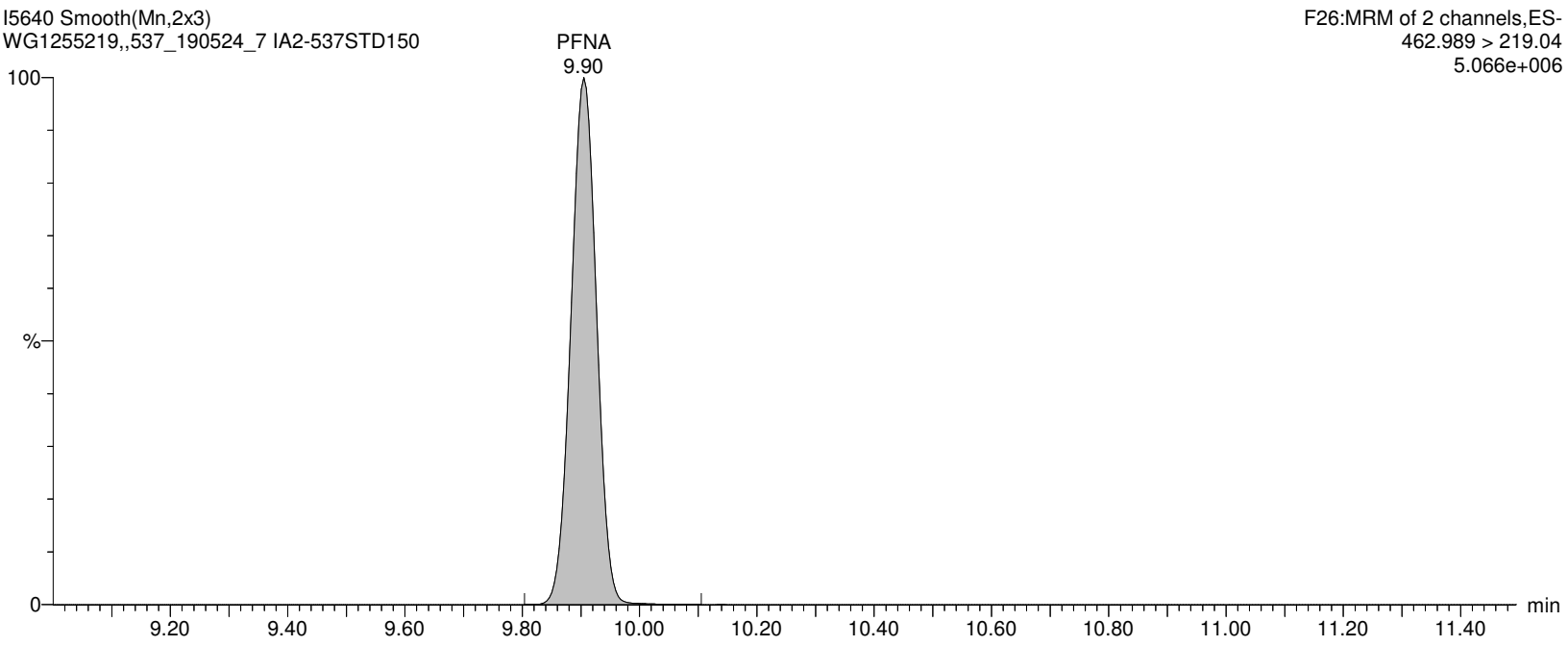
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
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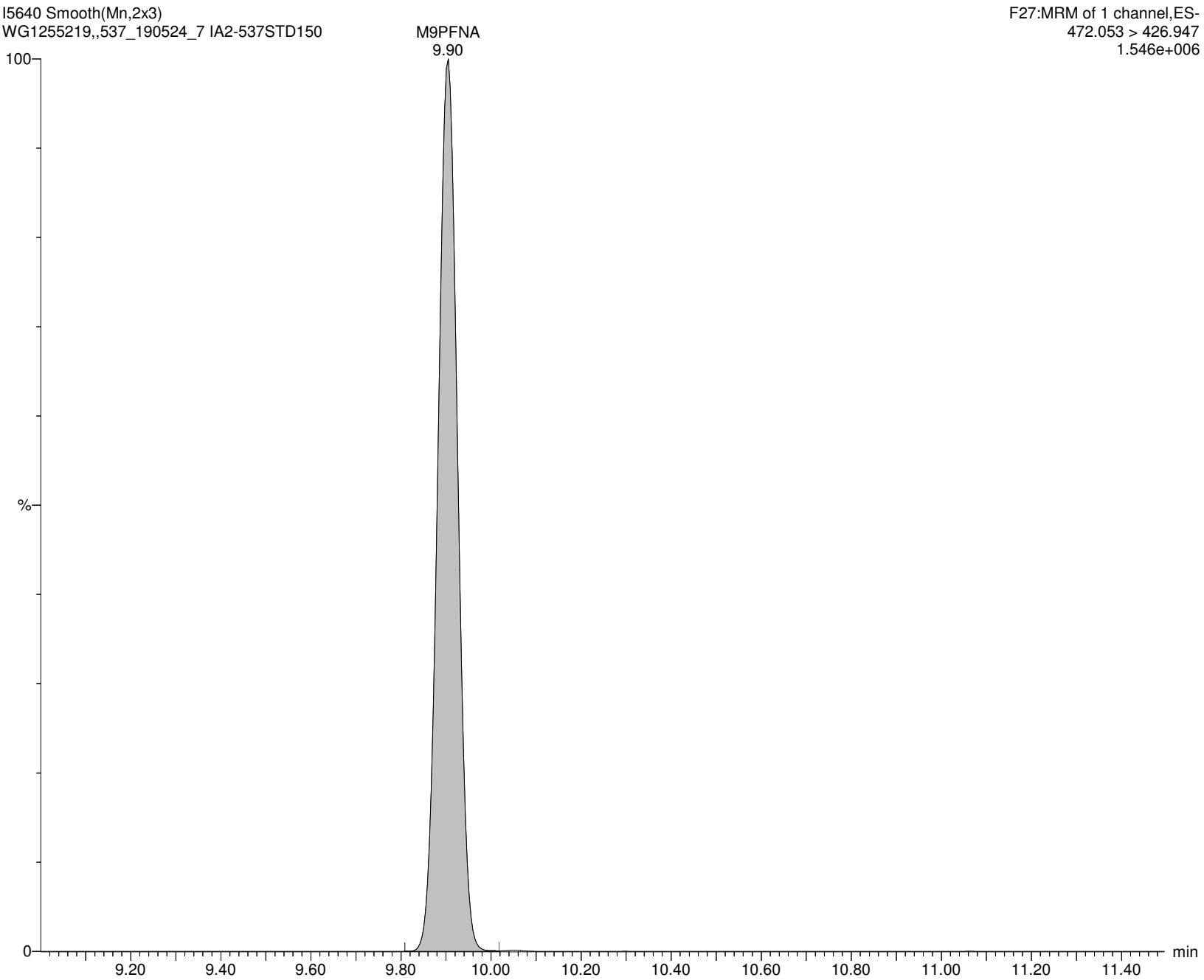


all concentration units in (ng/mL)

Alpha Analytical Inc.
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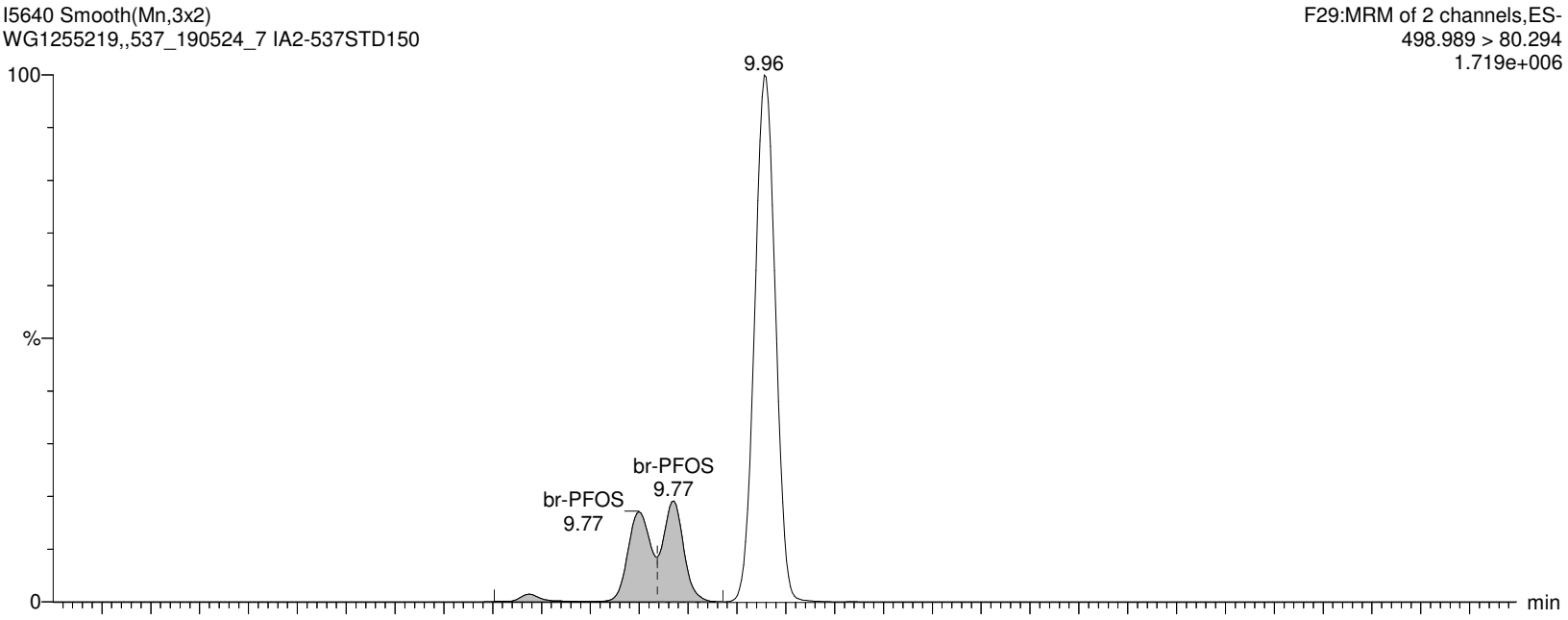


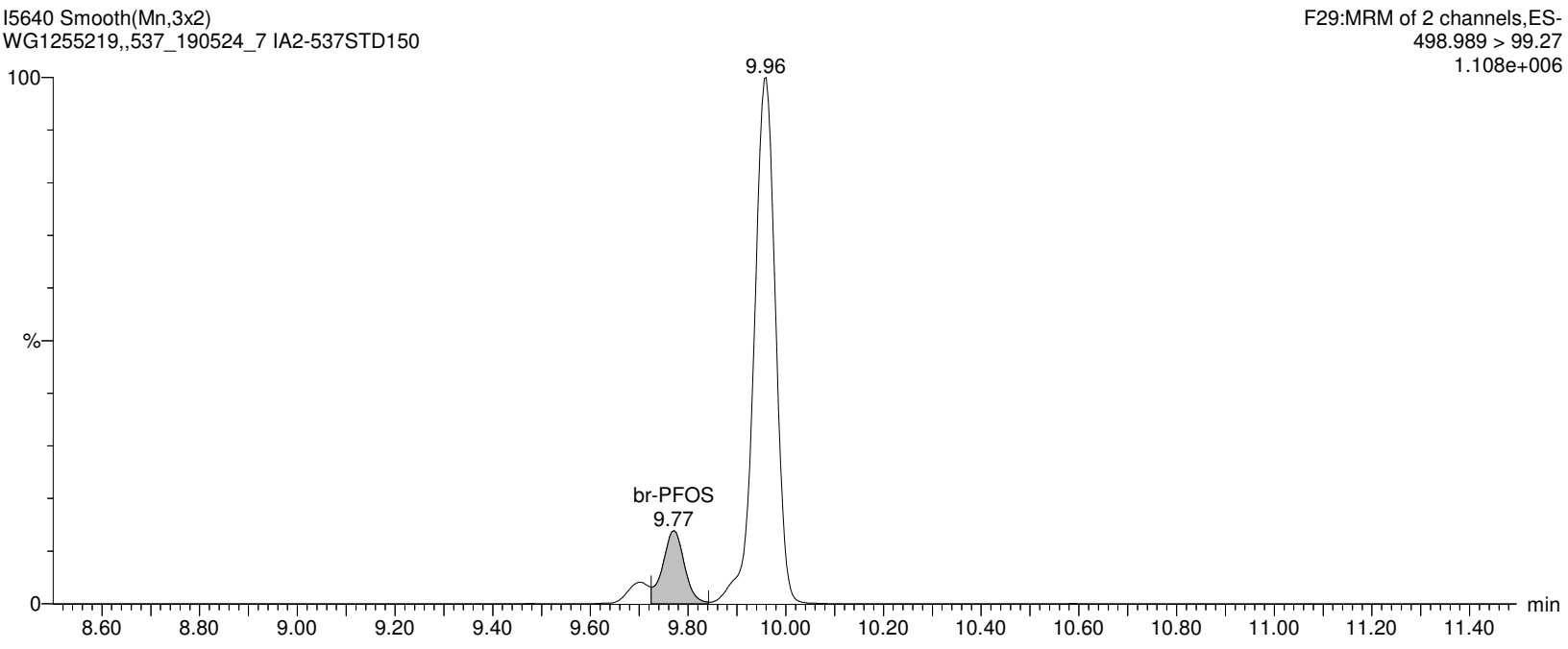
all concentration units in (ng/mL)

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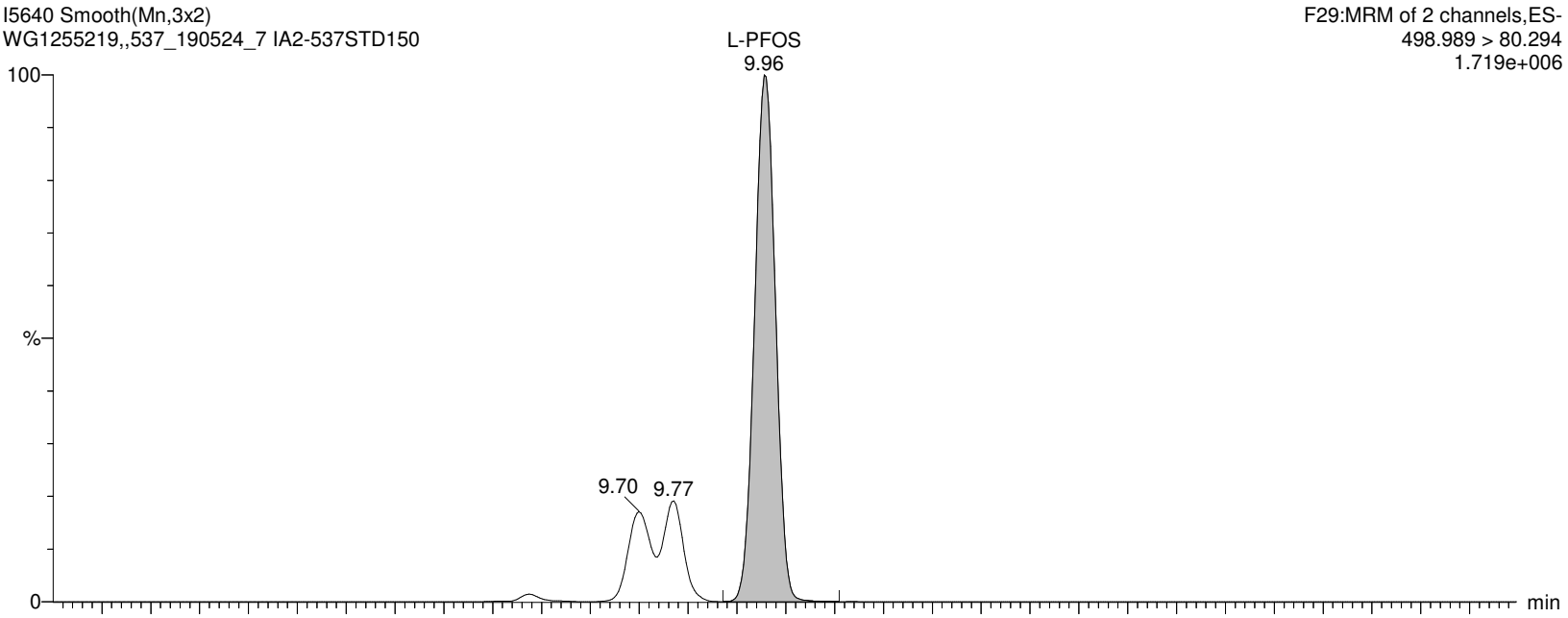


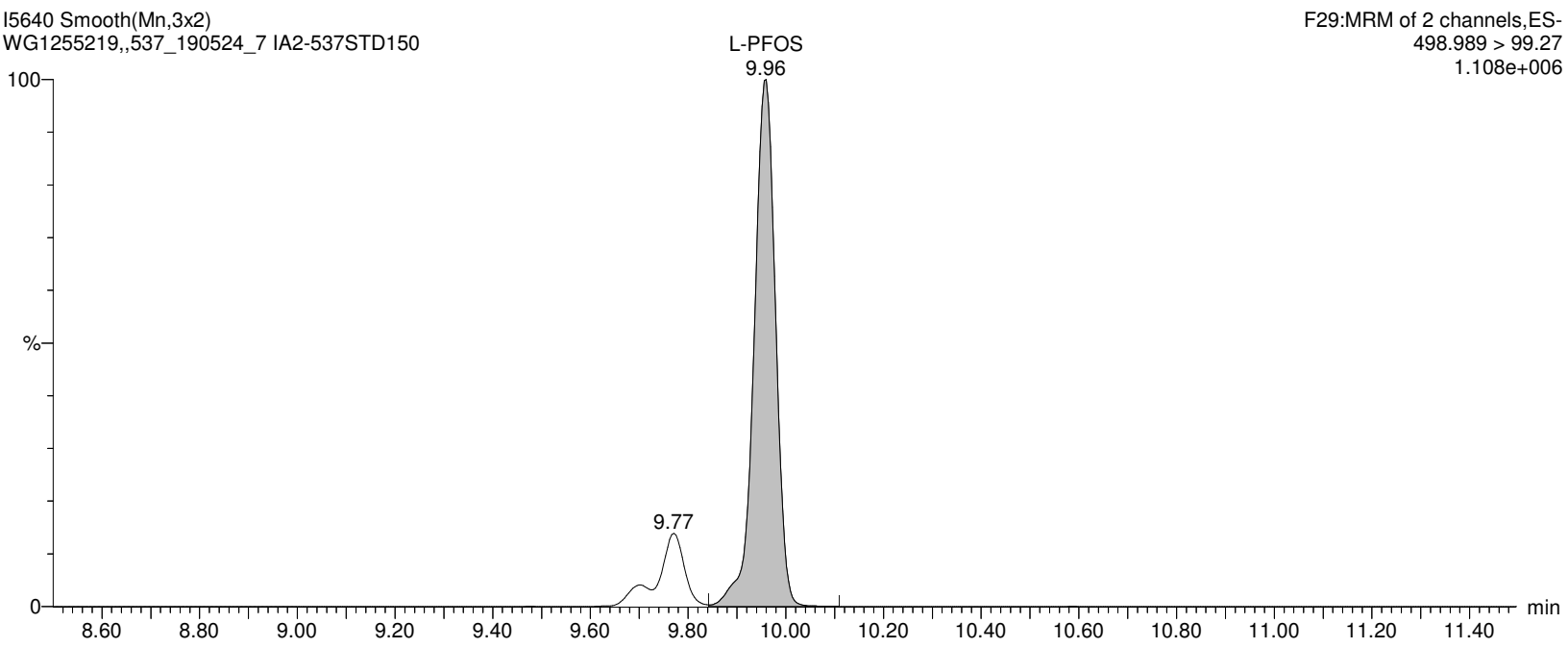
all concentration units in (ng/mL)

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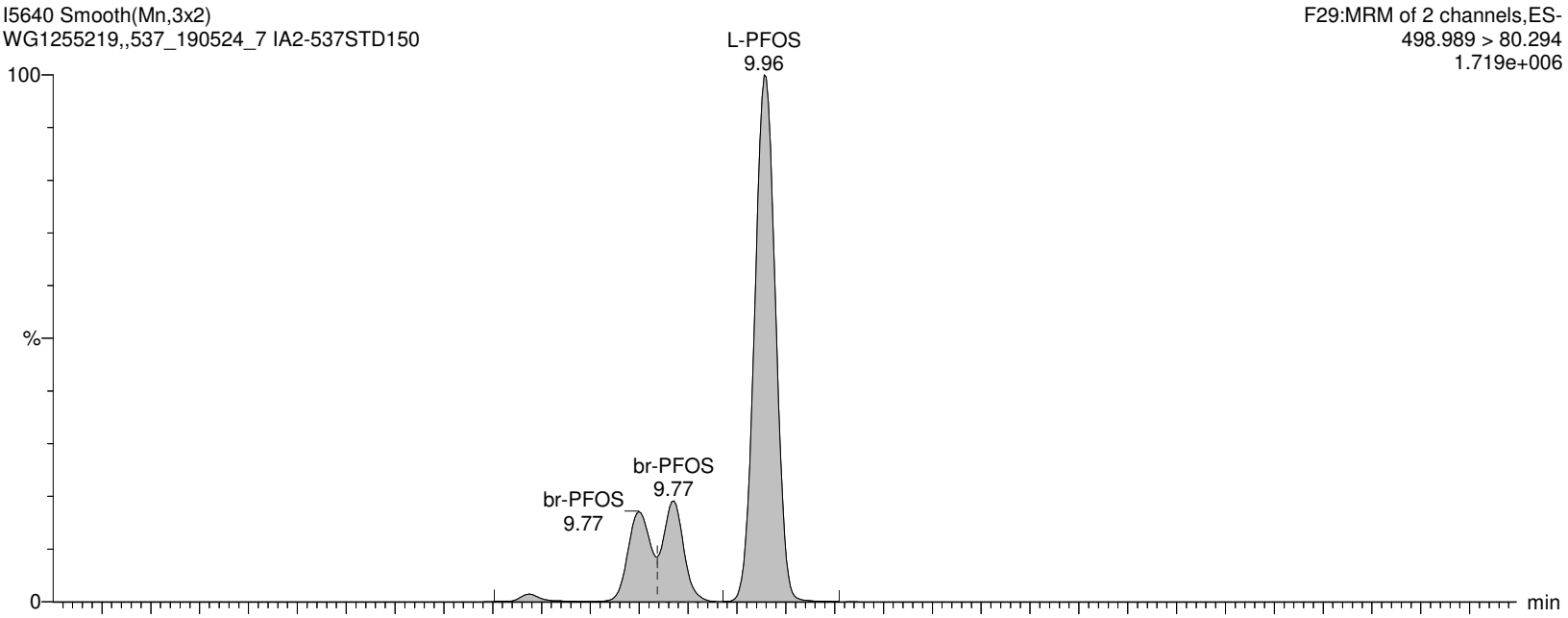


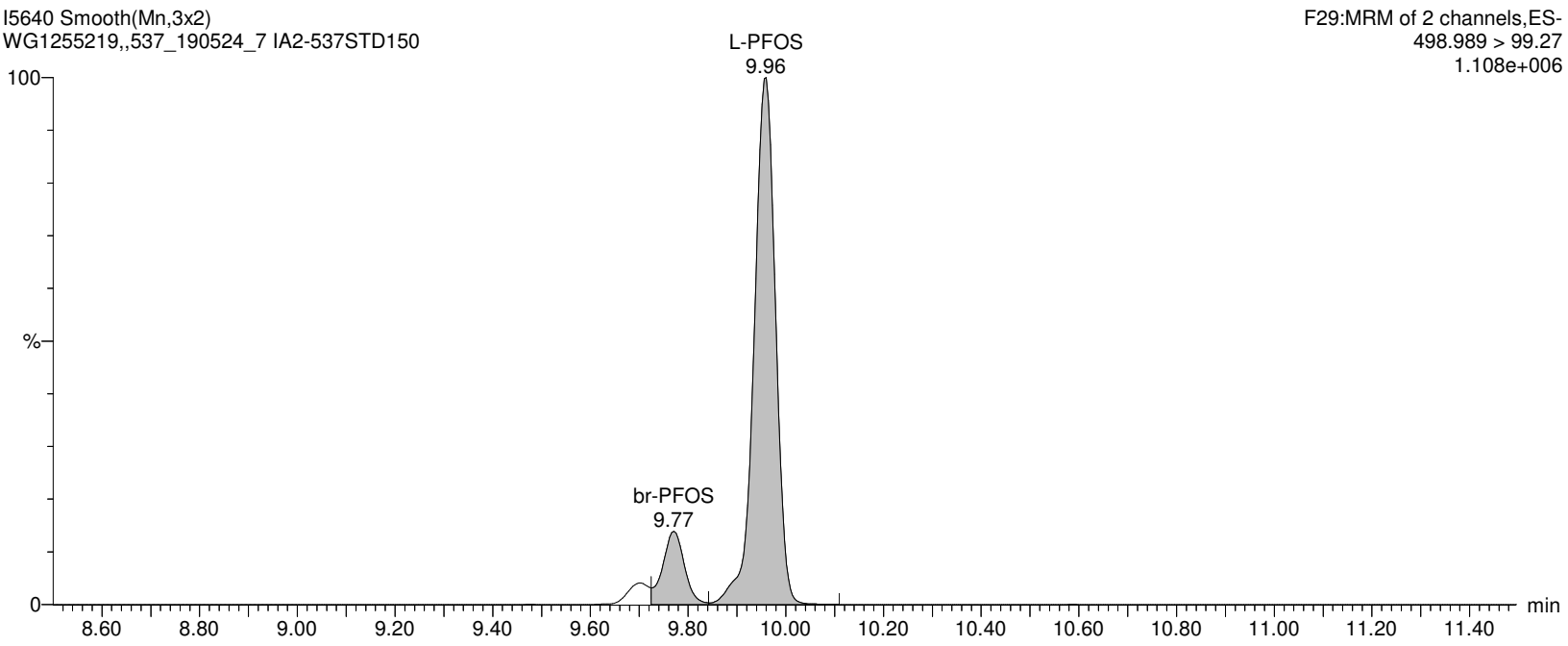
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
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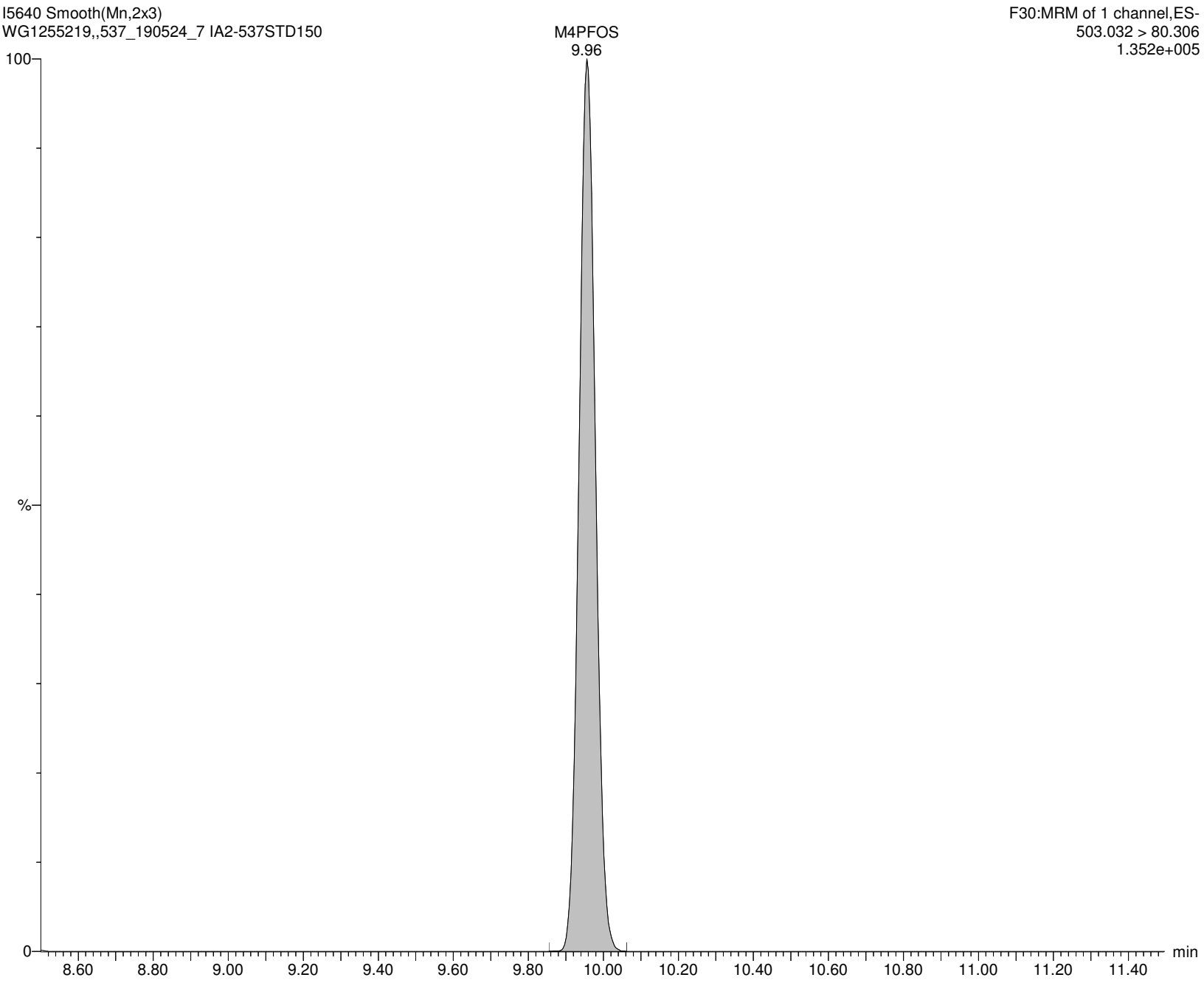


all concentration units in (ng/mL)

Alpha Analytical Inc.
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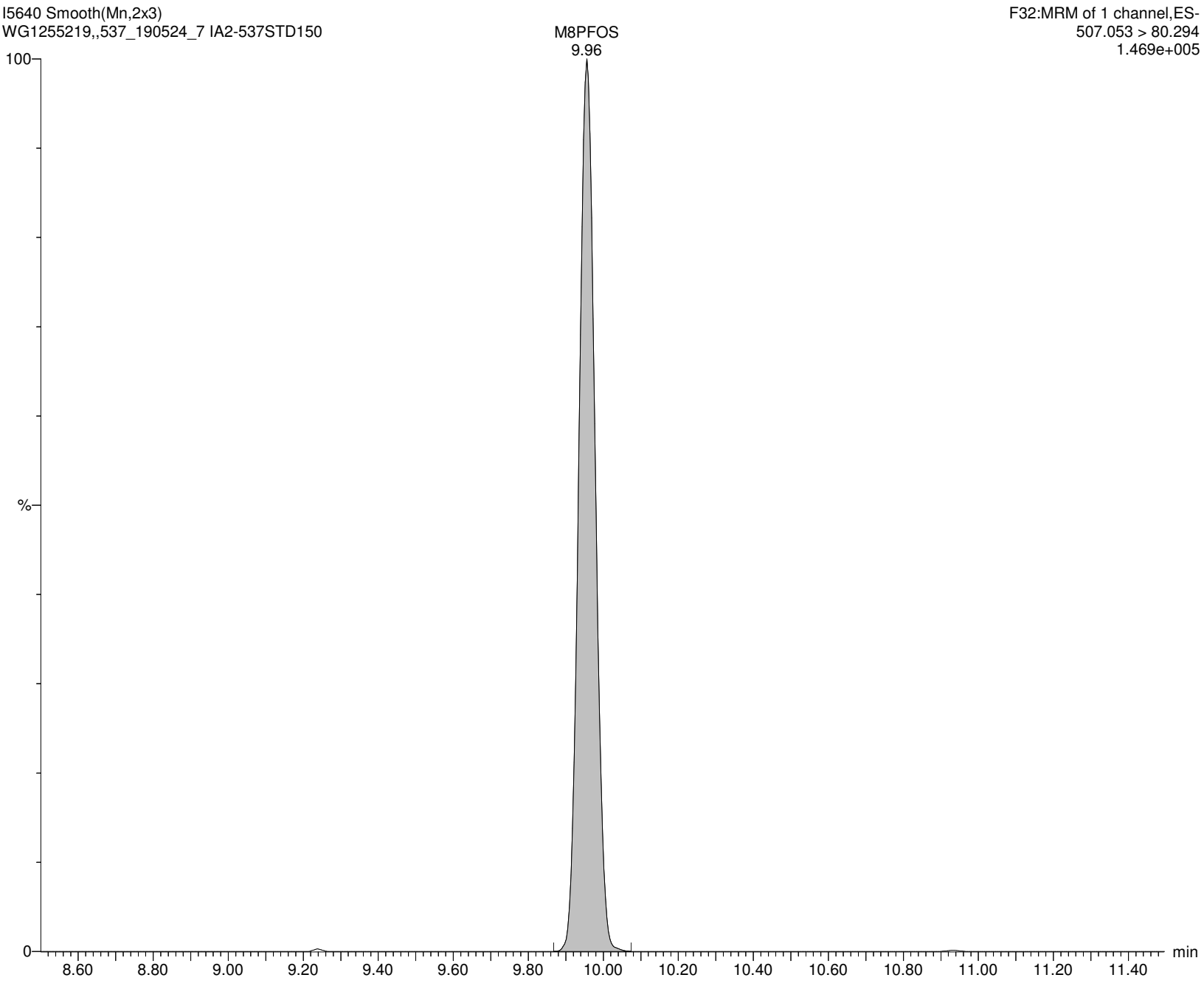


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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M8PFOS

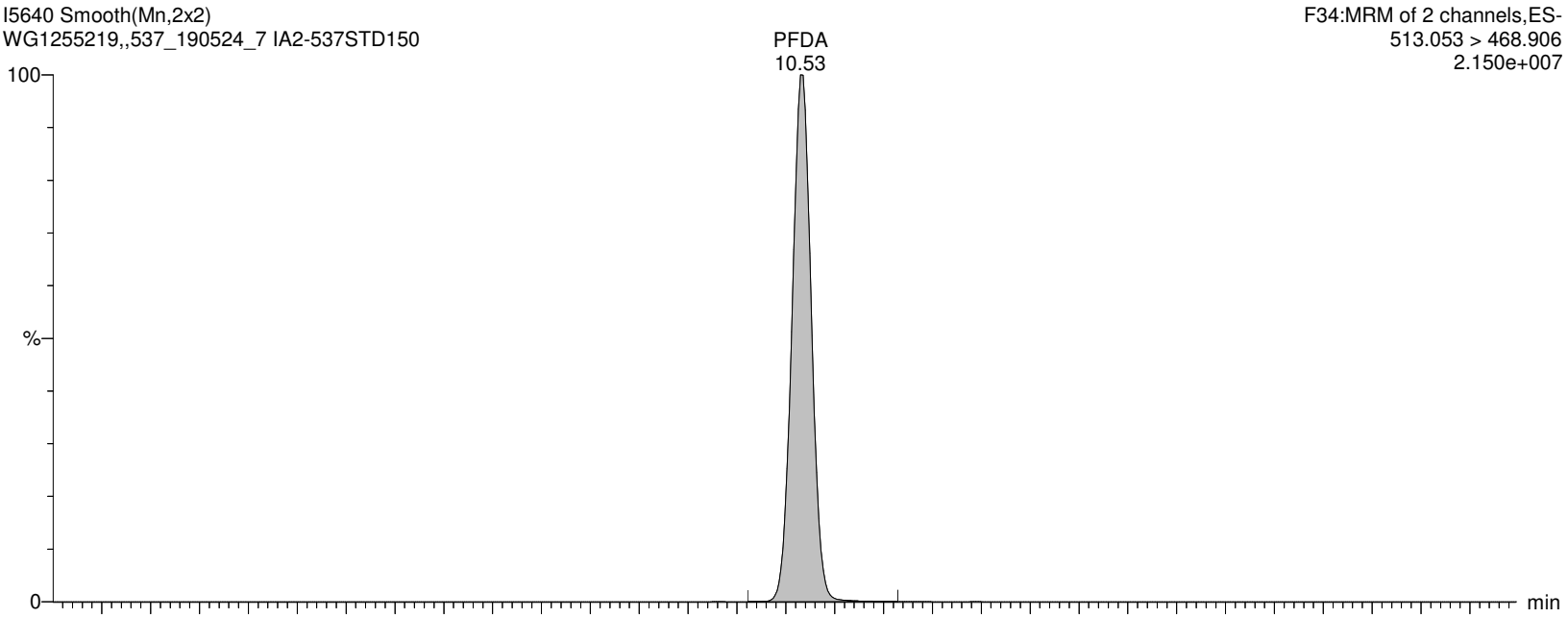


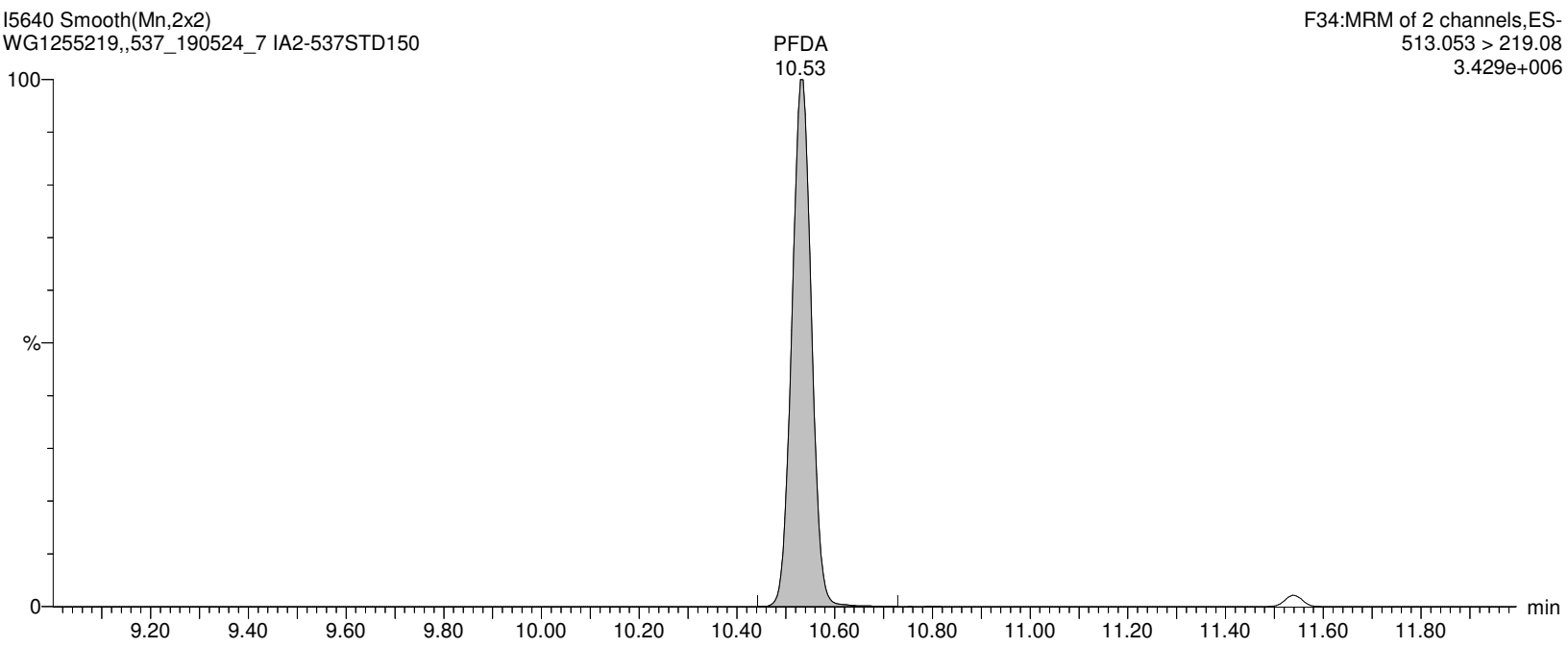
all concentration units in (ng/mL)

Alpha Analytical Inc.
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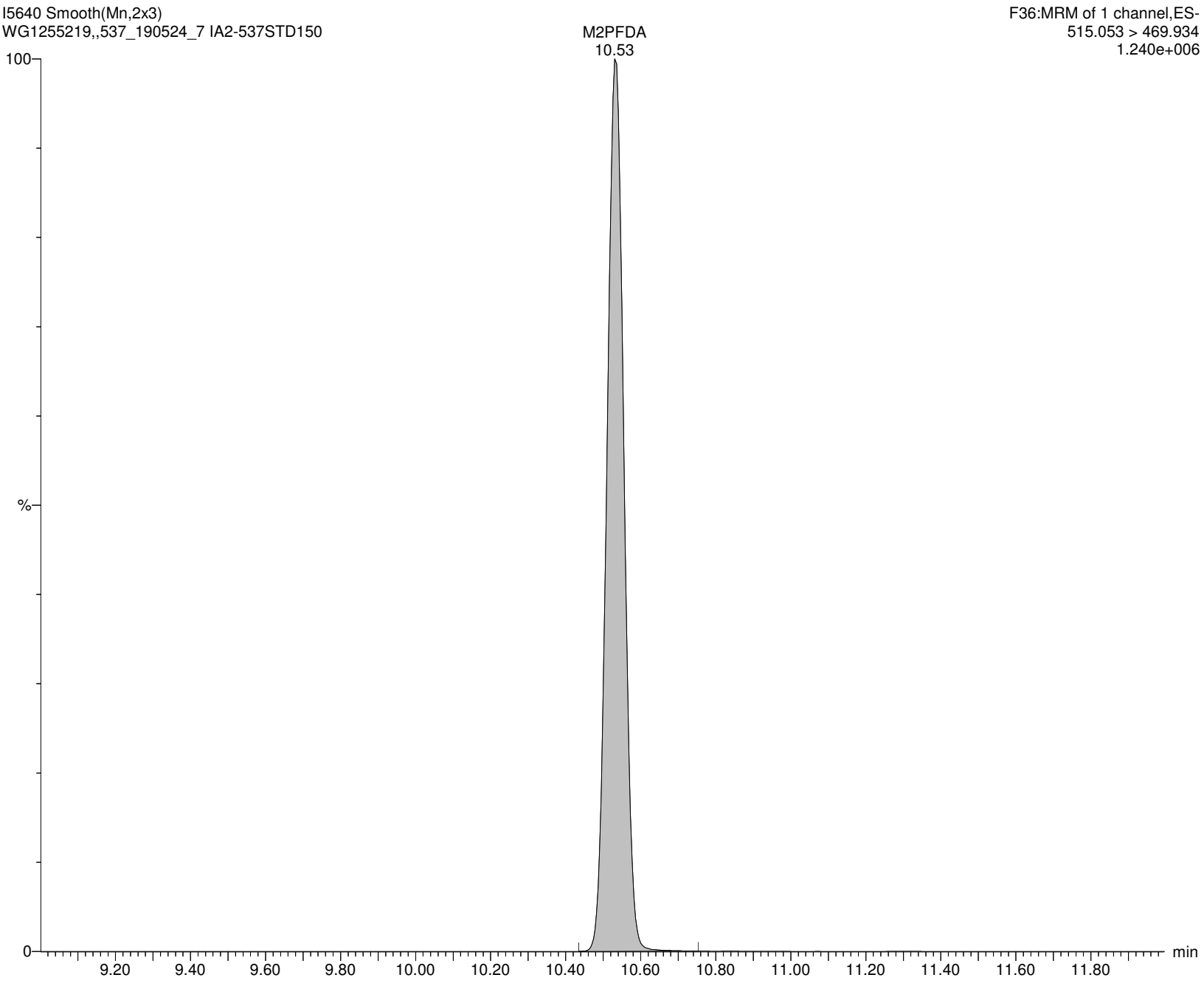


all concentration units in (ng/mL)

Alpha Analytical Inc.
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M2PFDA

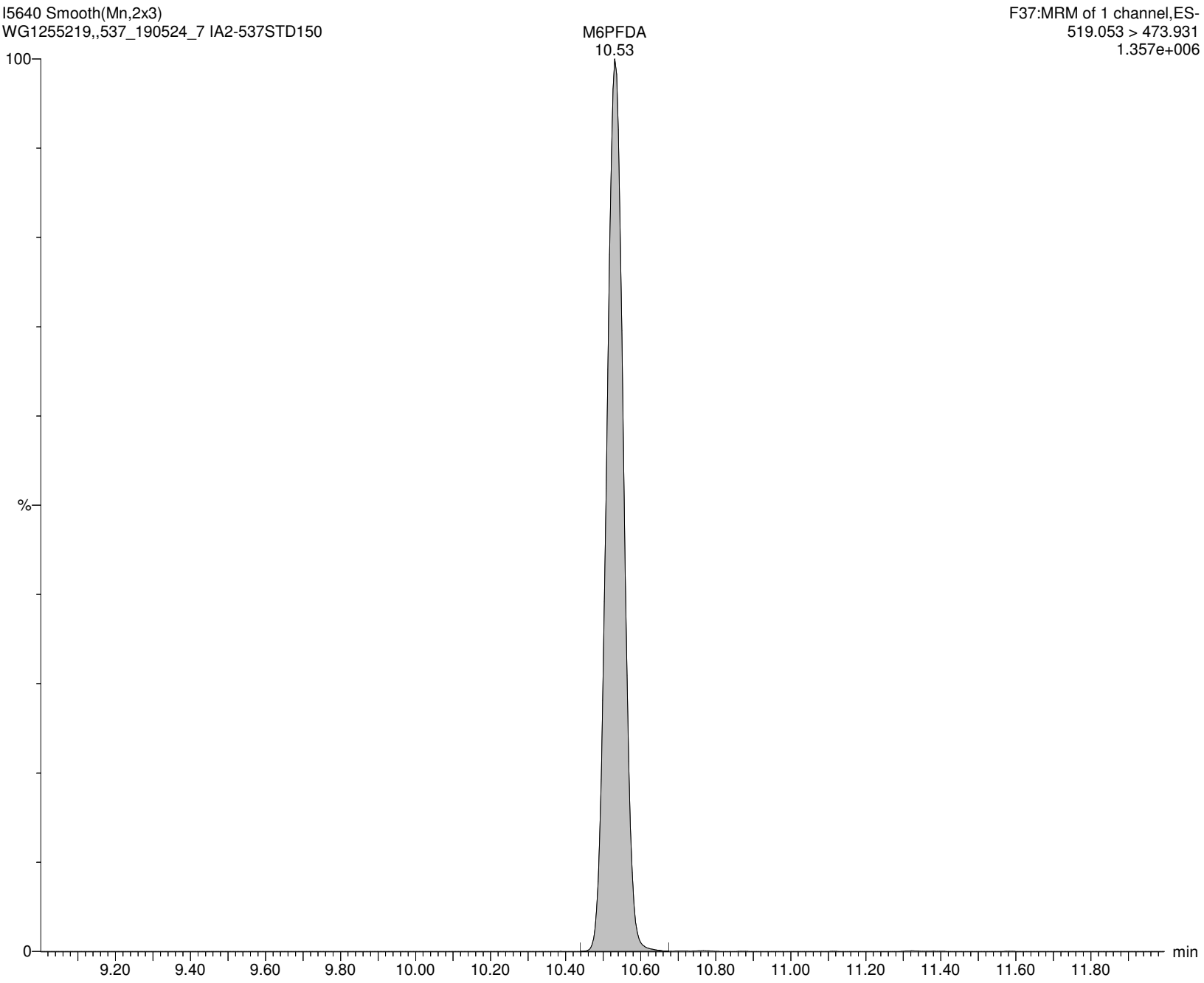


all concentration units in (ng/mL)

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M6PFDA

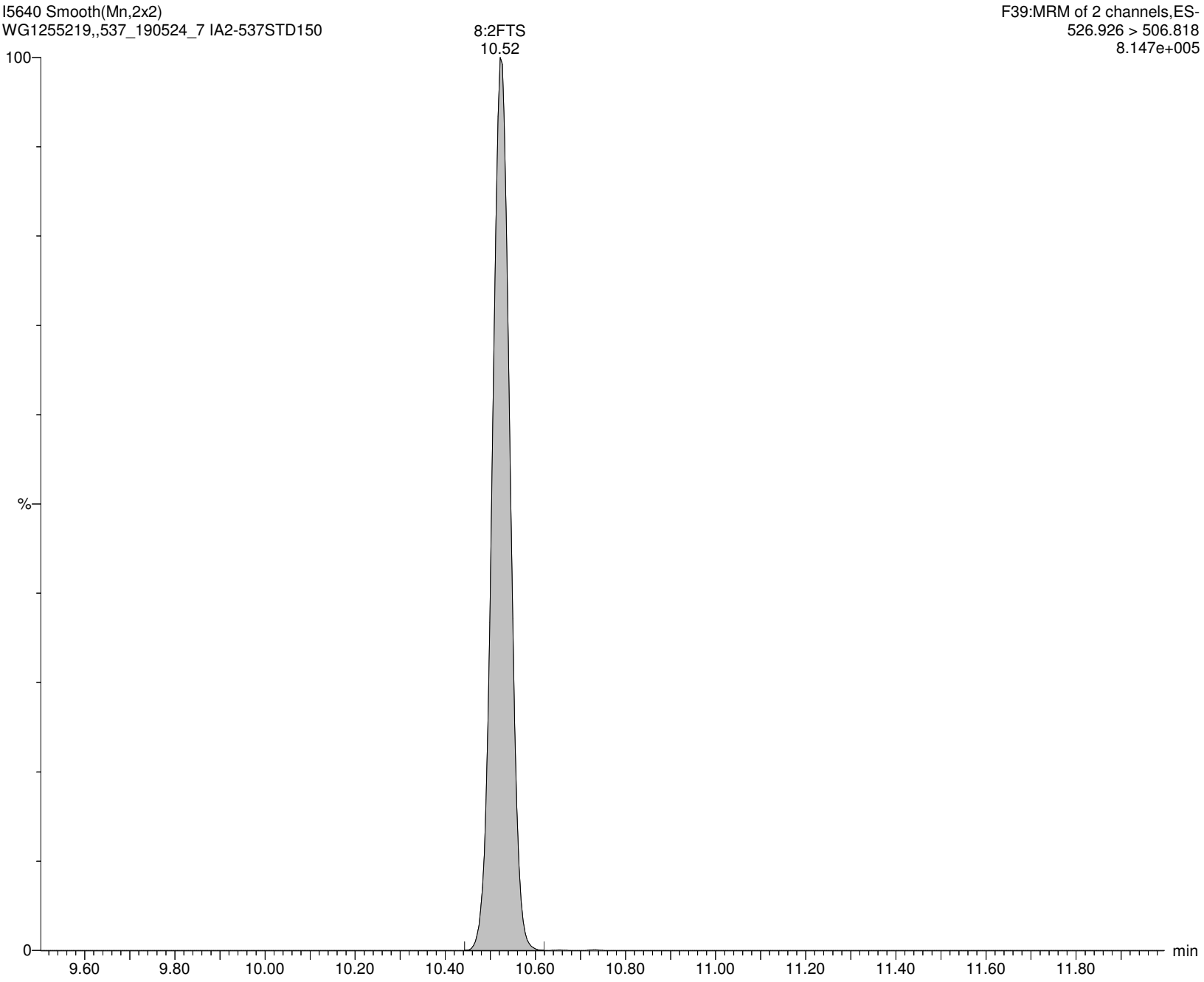


all concentration units in (ng/mL)

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8:2FTS

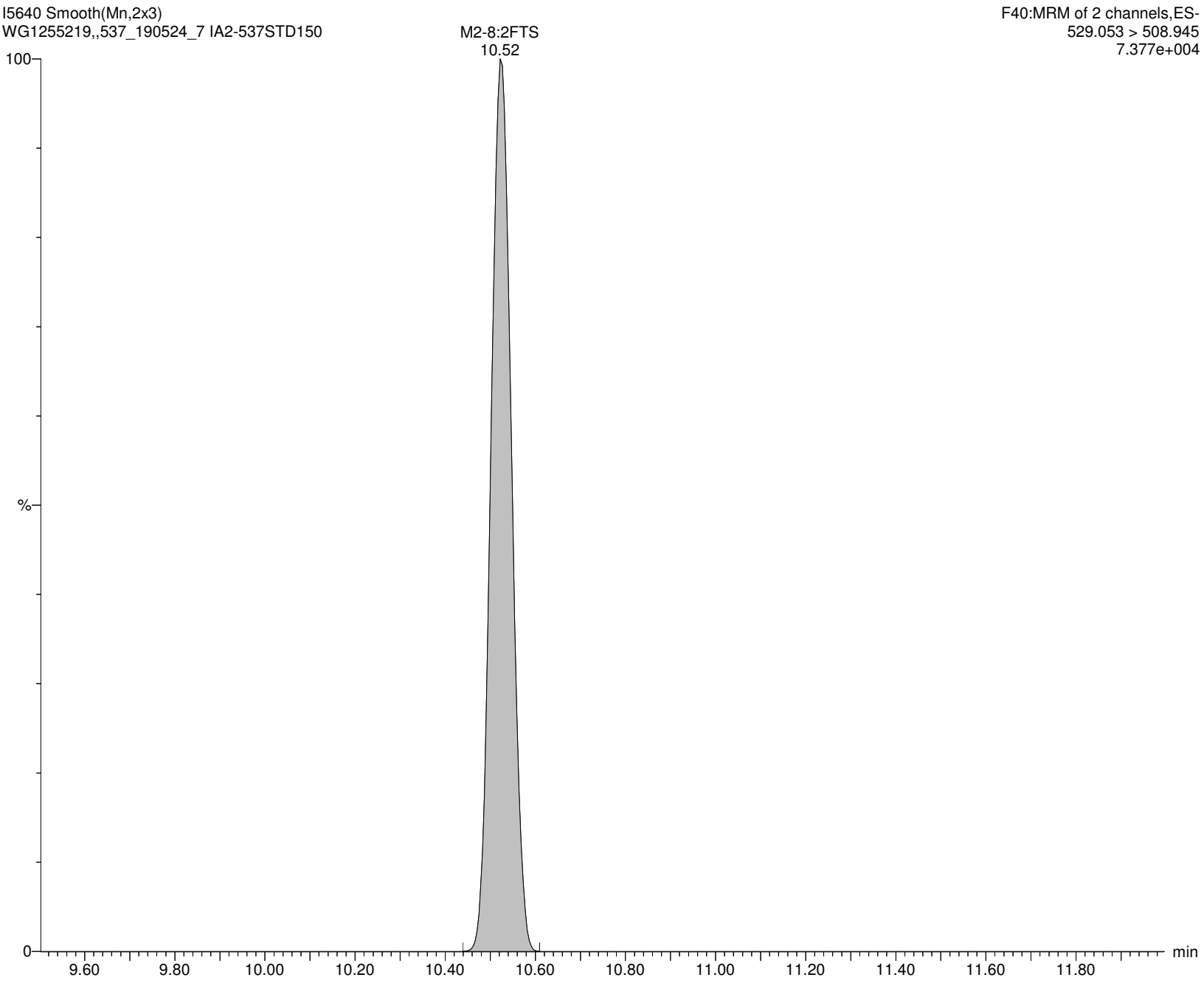


all concentration units in (ng/mL)

Alpha Analytical Inc.
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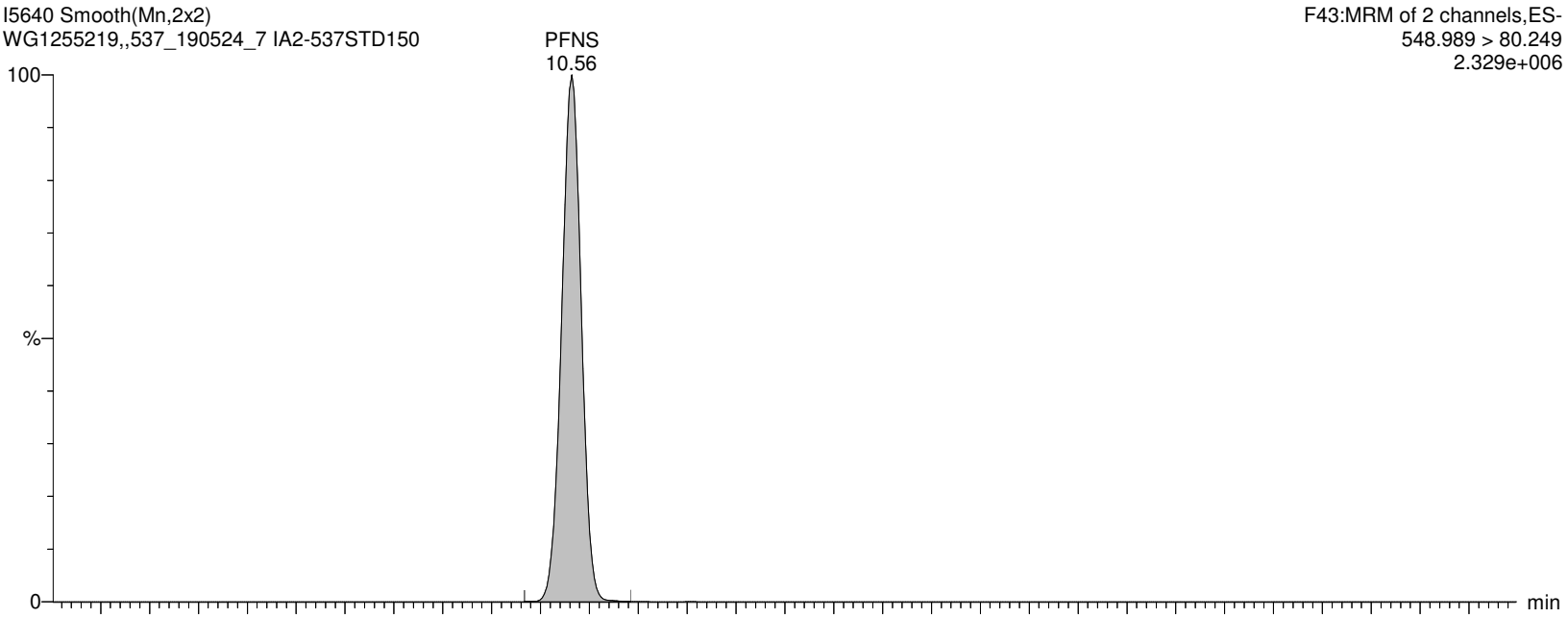


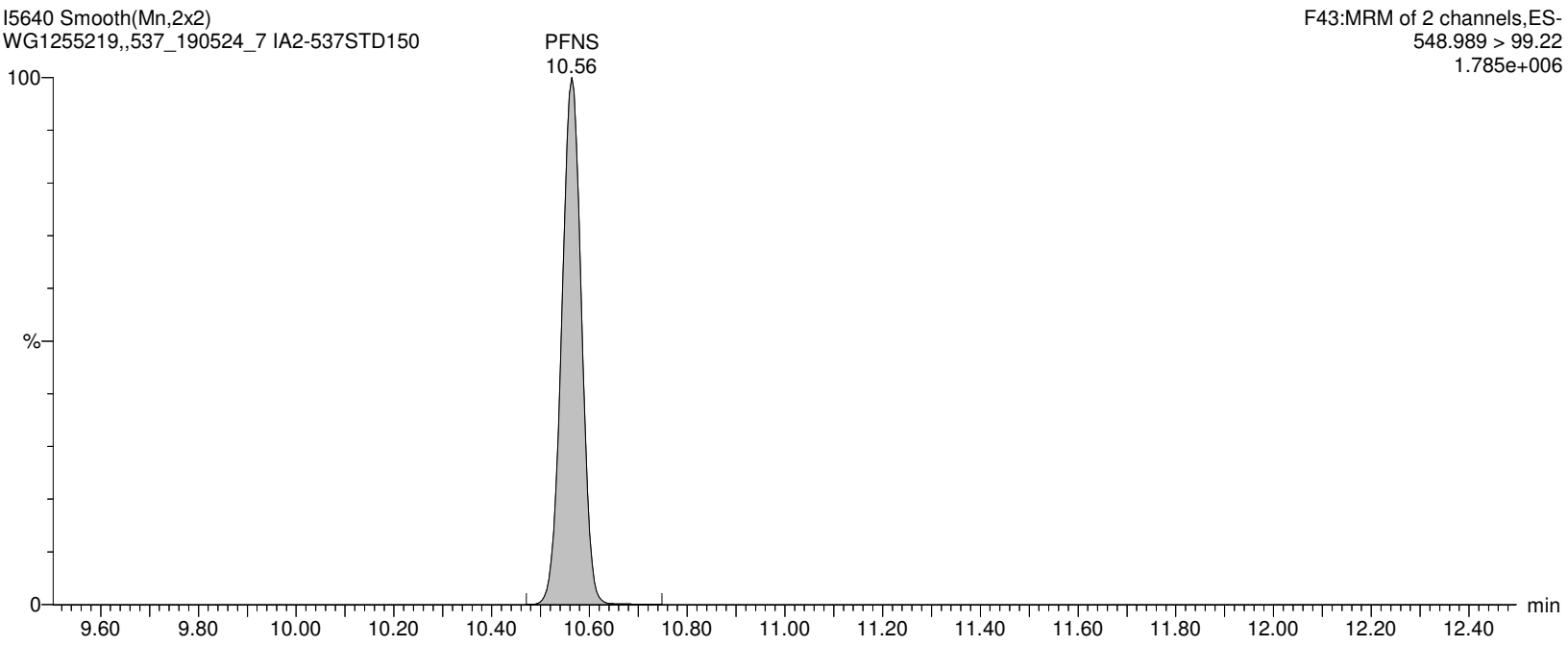
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Date: 01-Jul-2019
Time: 19:36:40
Description: WG1255219,,537_190524_7
User: LCMS02:JW
Vial: 1:A,8
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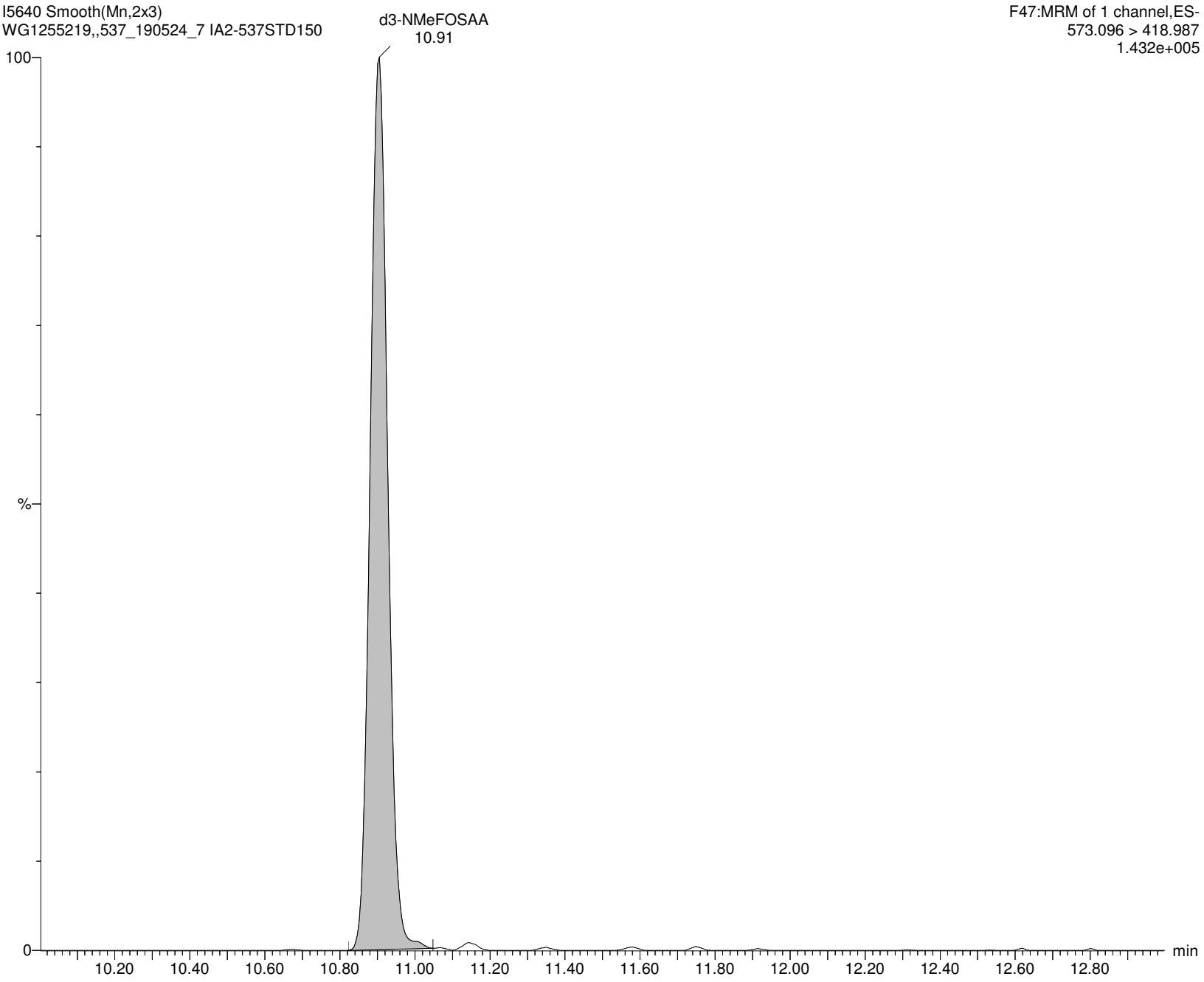


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:41 Eastern Daylight Time

Name: I5640
ID: IA2-537STD150
Date: 01-Jul-2019
Time: 19:36:40
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d3-NMeFOSAA

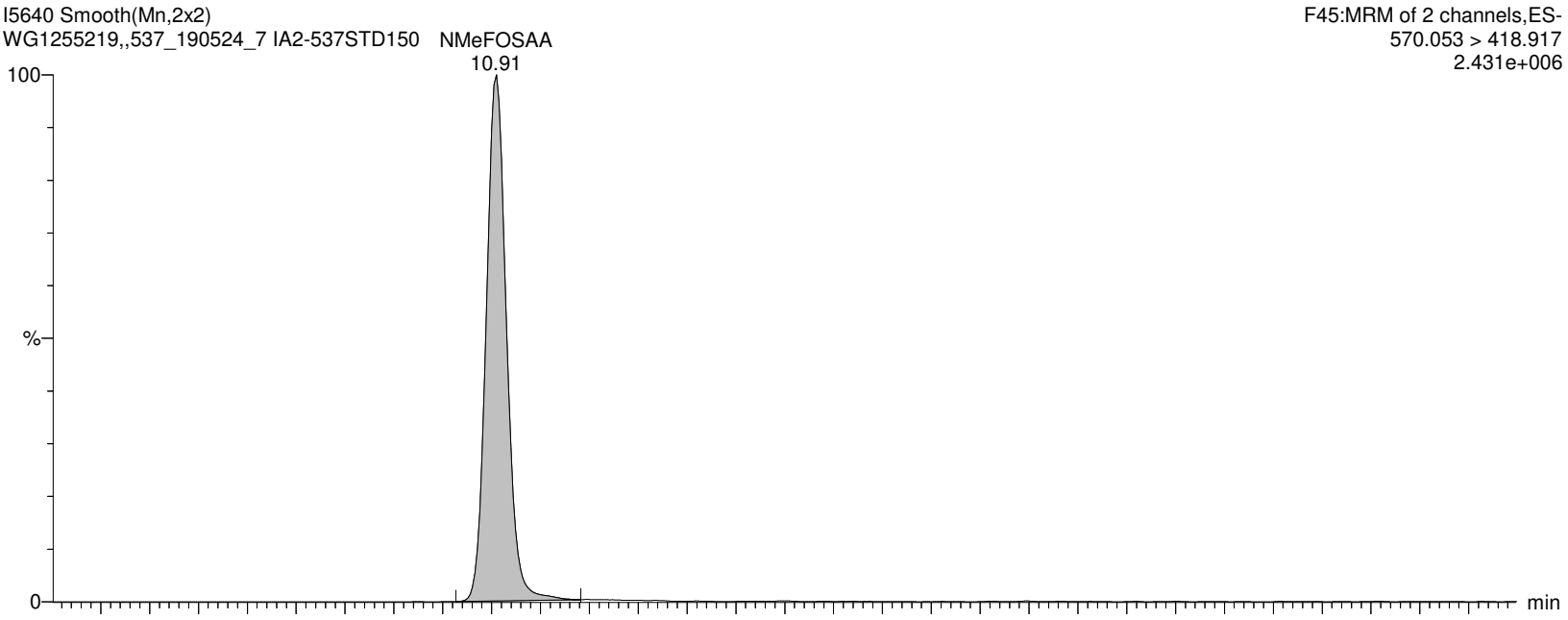


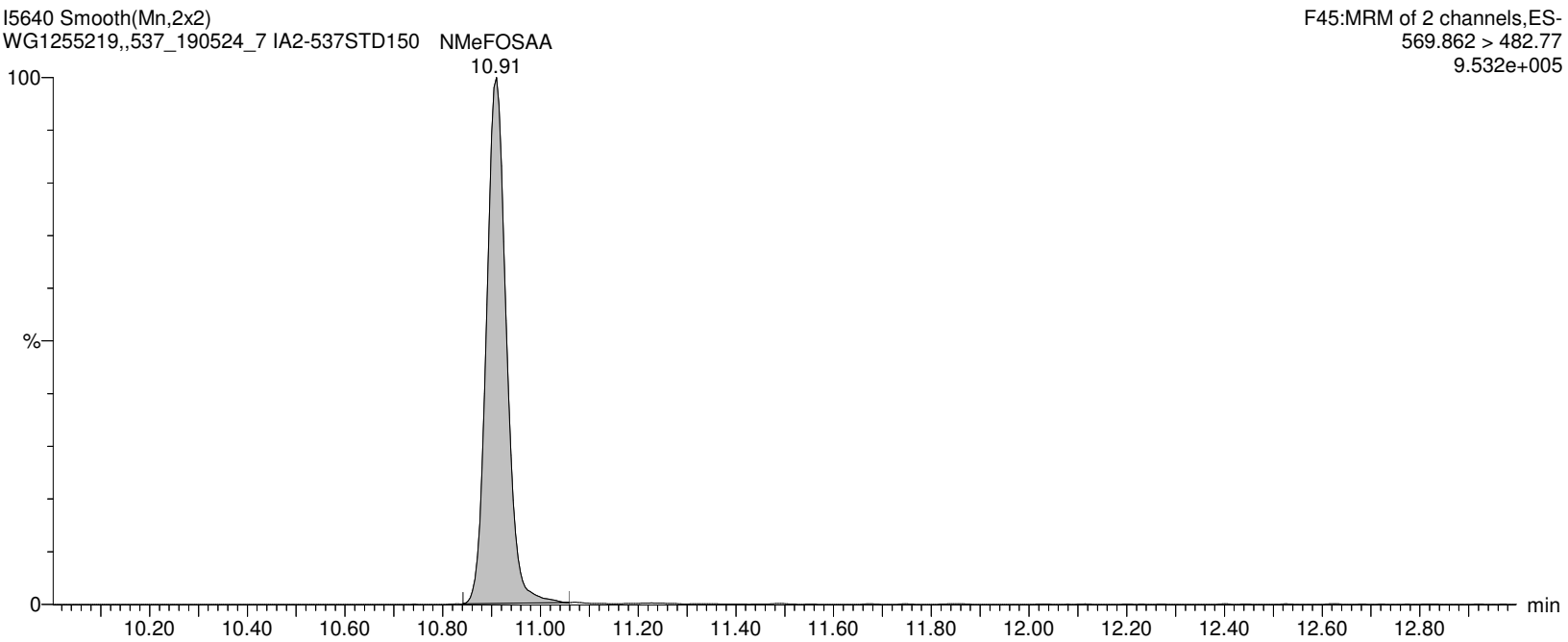
all concentration units in (ng/mL)

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NMeFOSAA



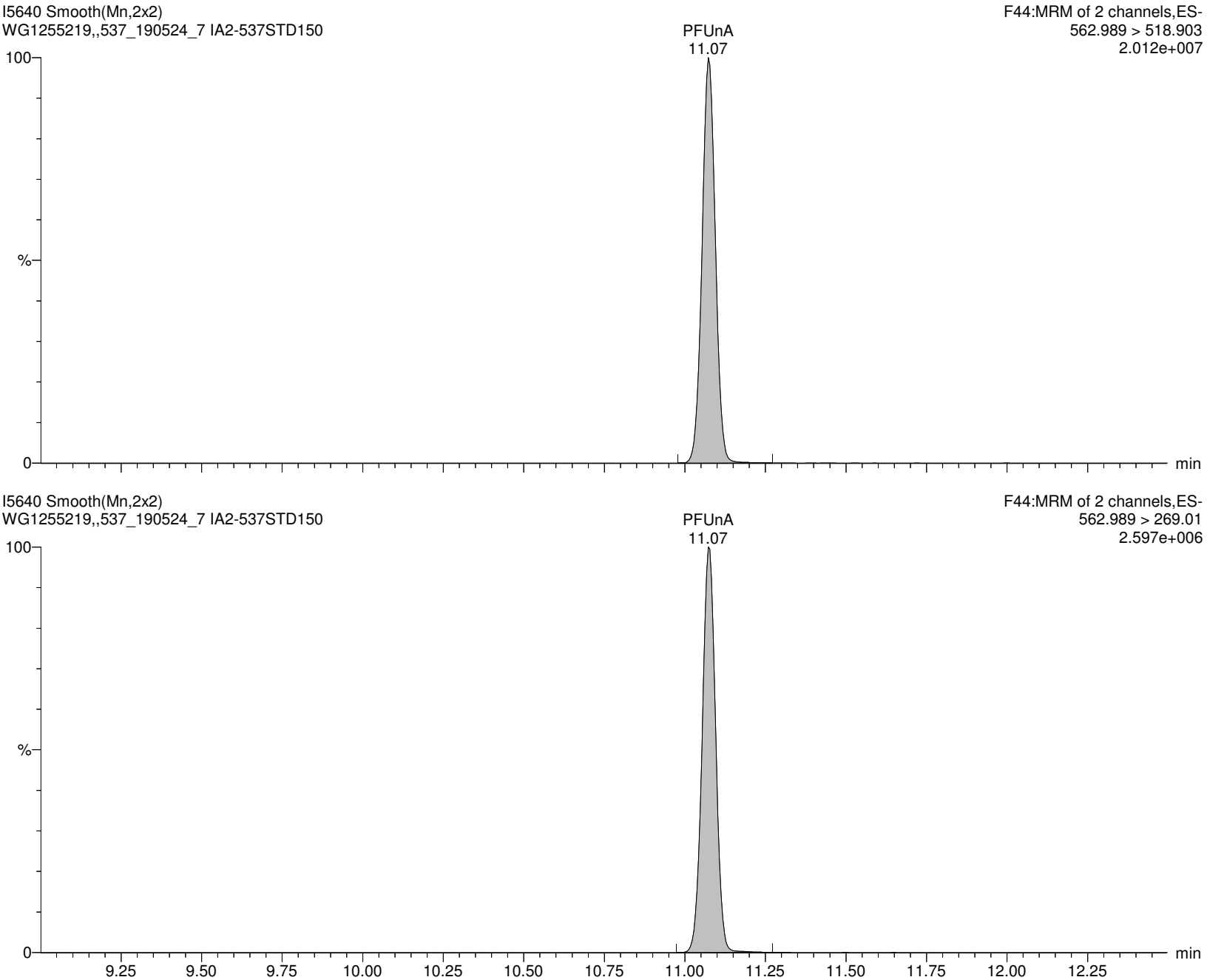


all concentration units in (ng/mL)

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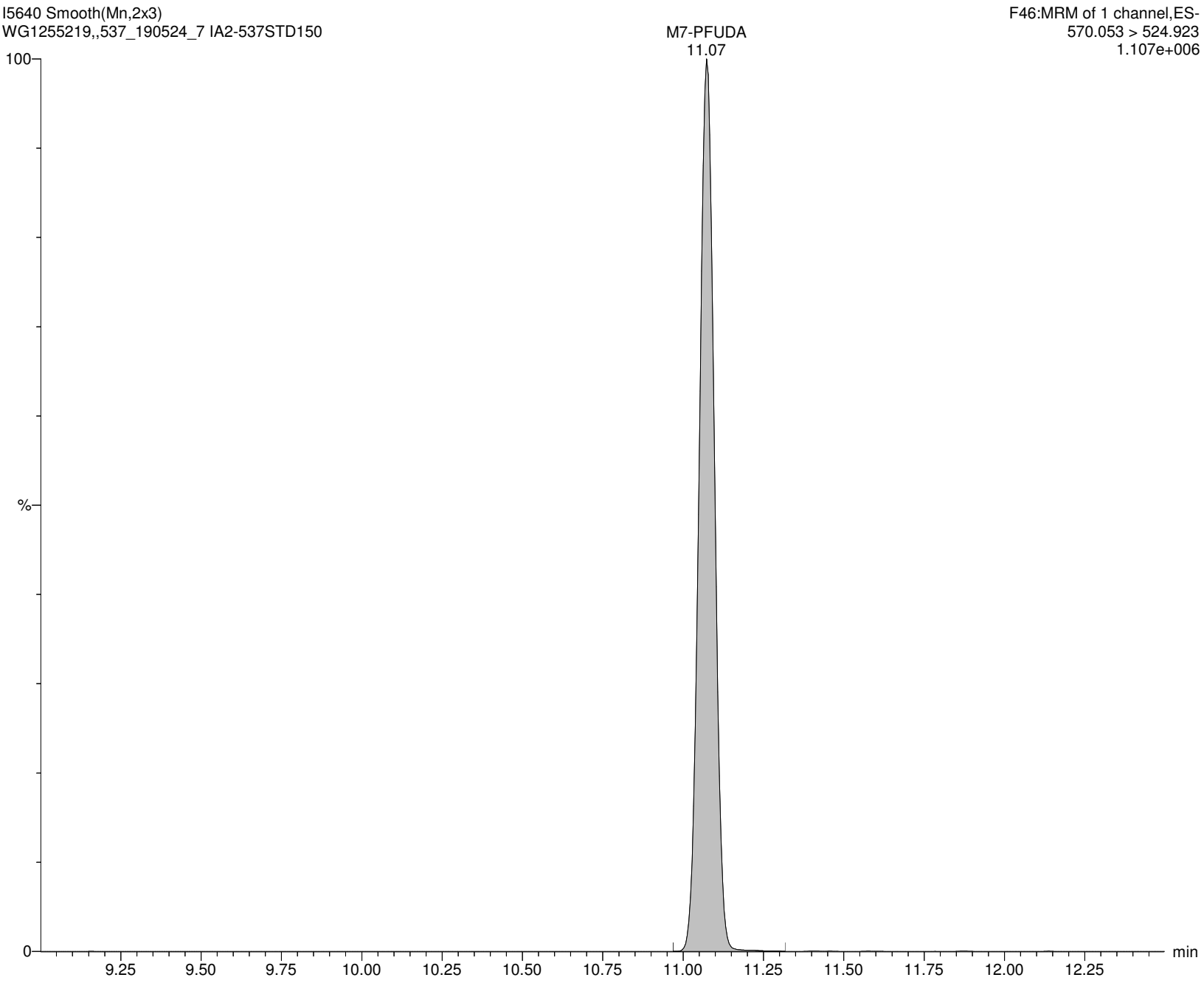


all concentration units in (ng/mL)

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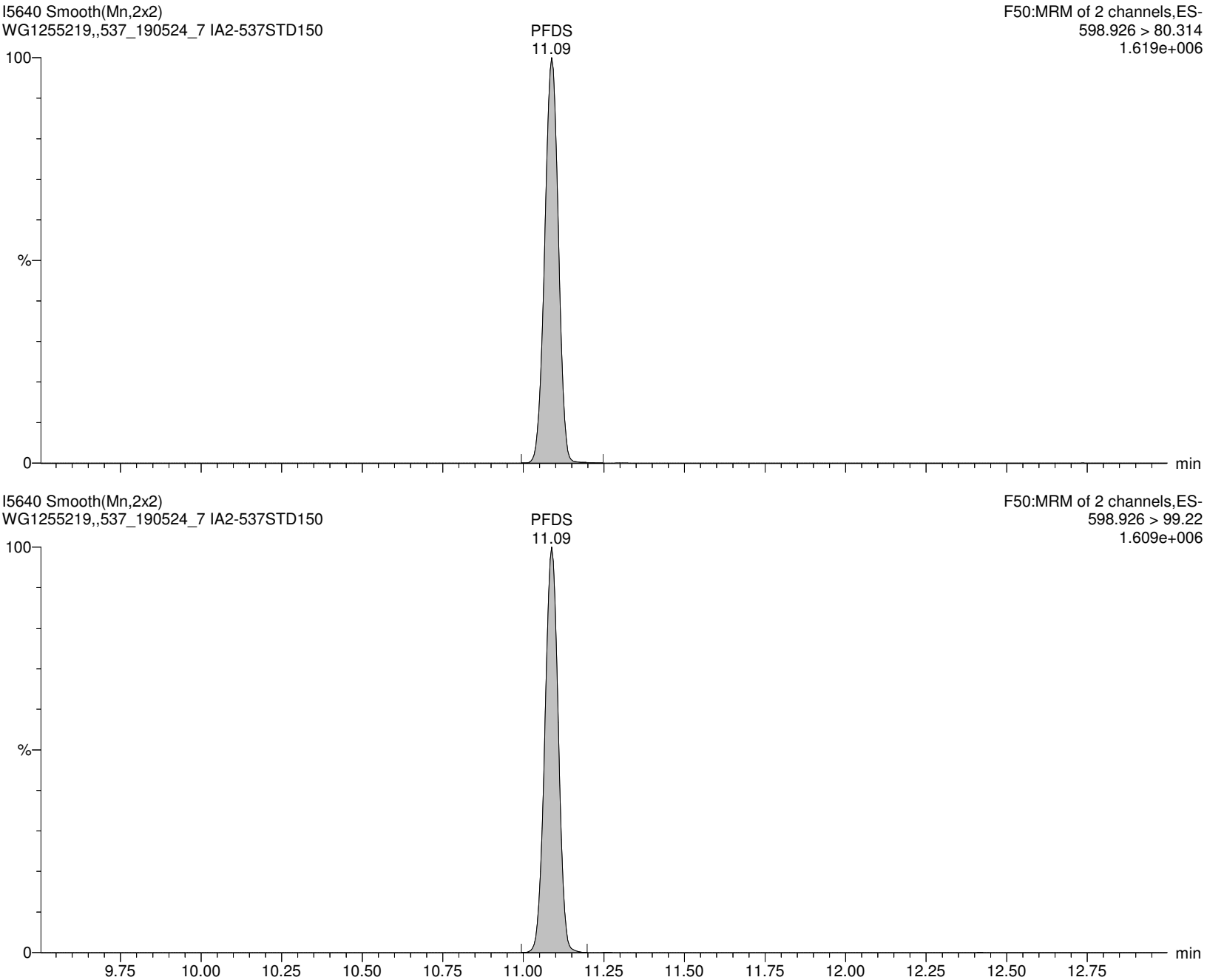


all concentration units in (ng/mL)

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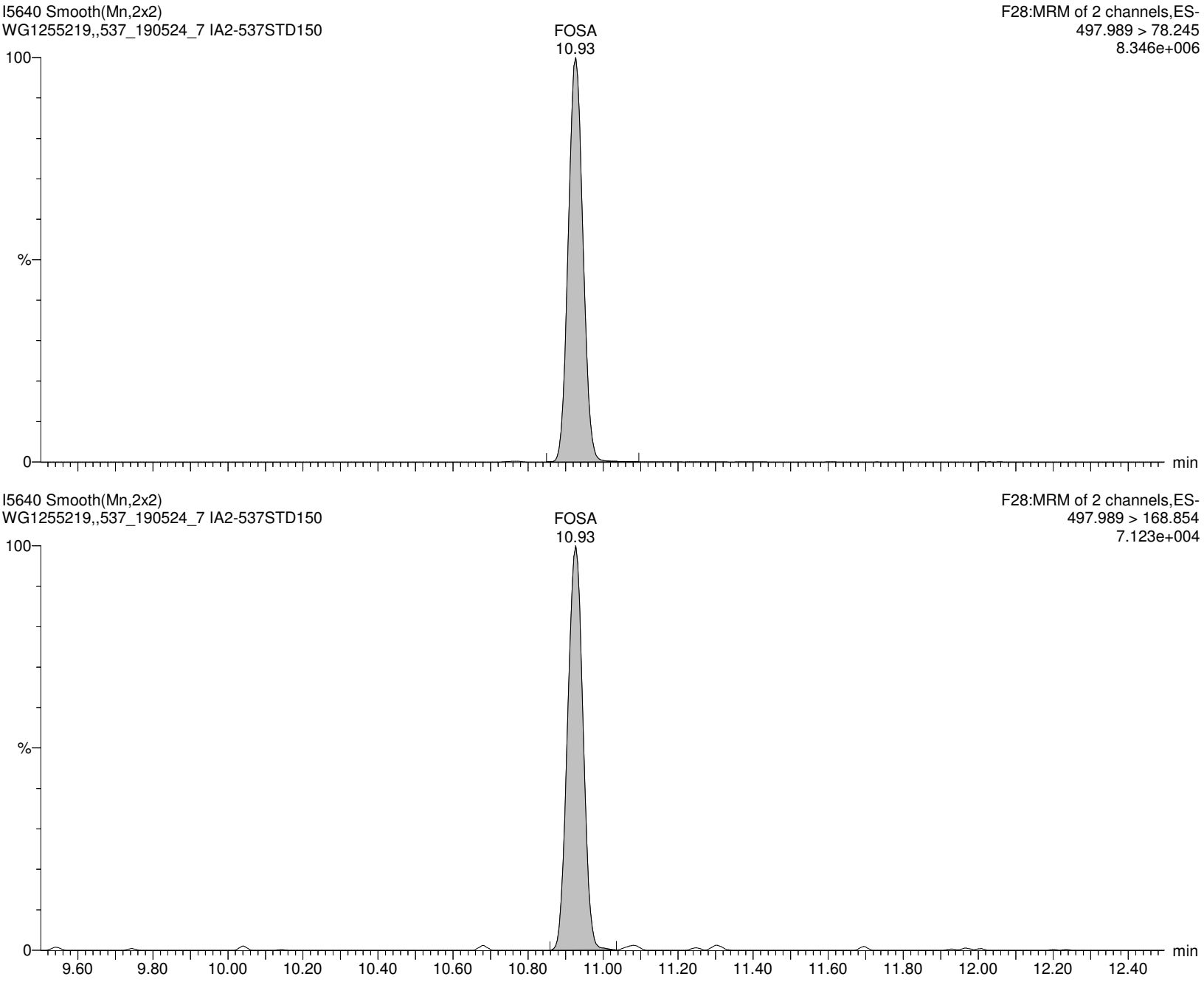


all concentration units in (ng/mL)

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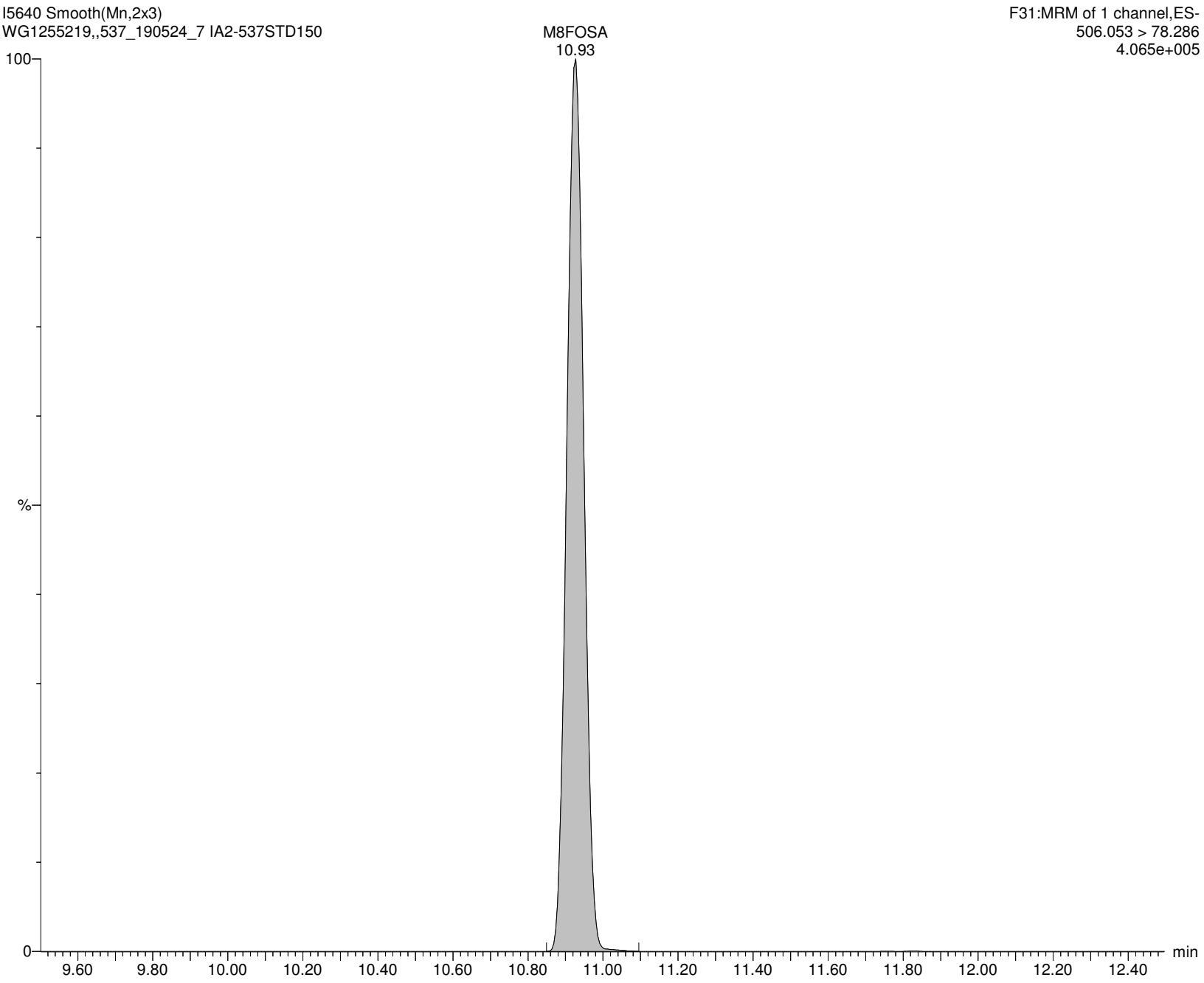


all concentration units in (ng/mL)

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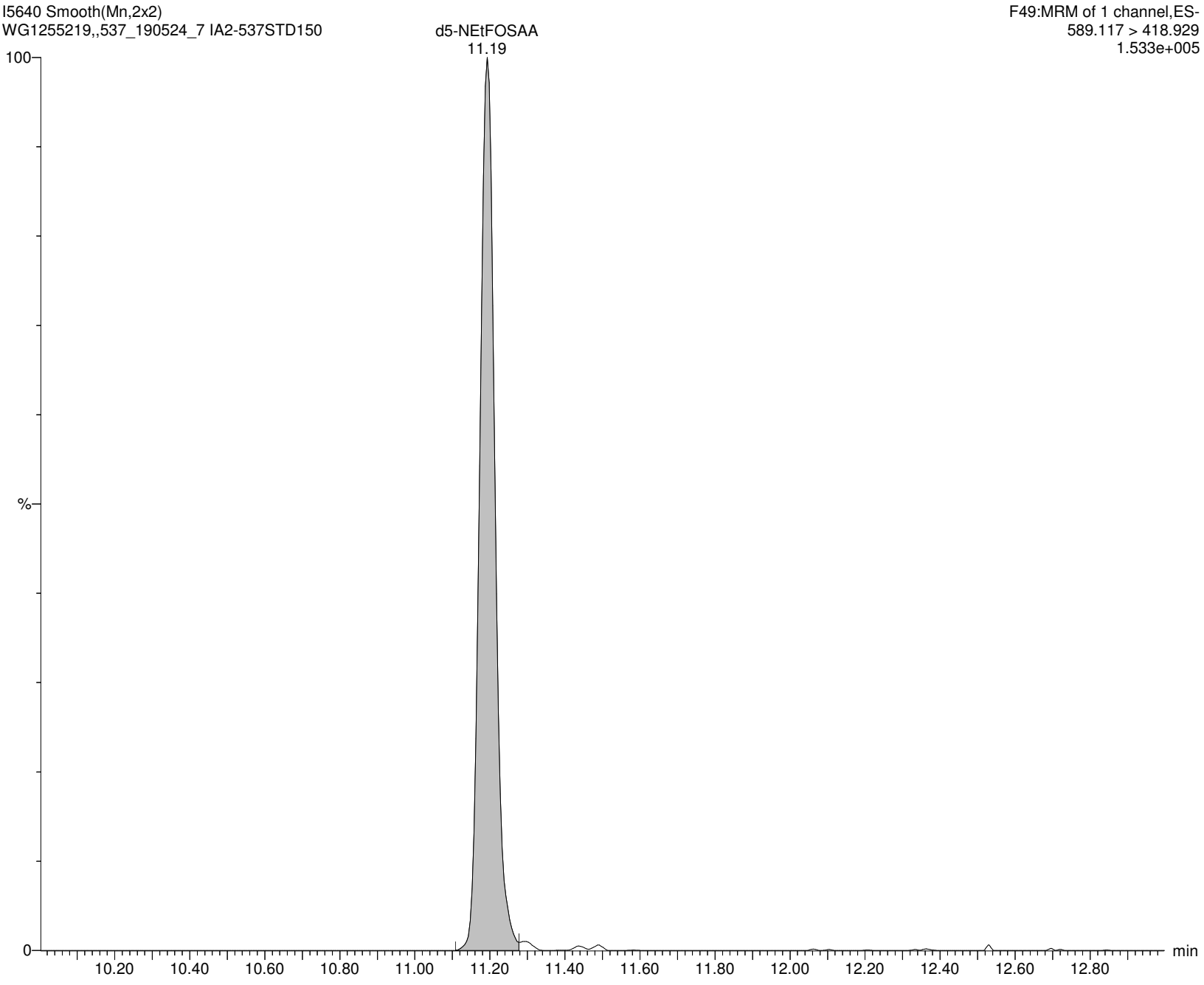


all concentration units in (ng/mL)

Alpha Analytical Inc.
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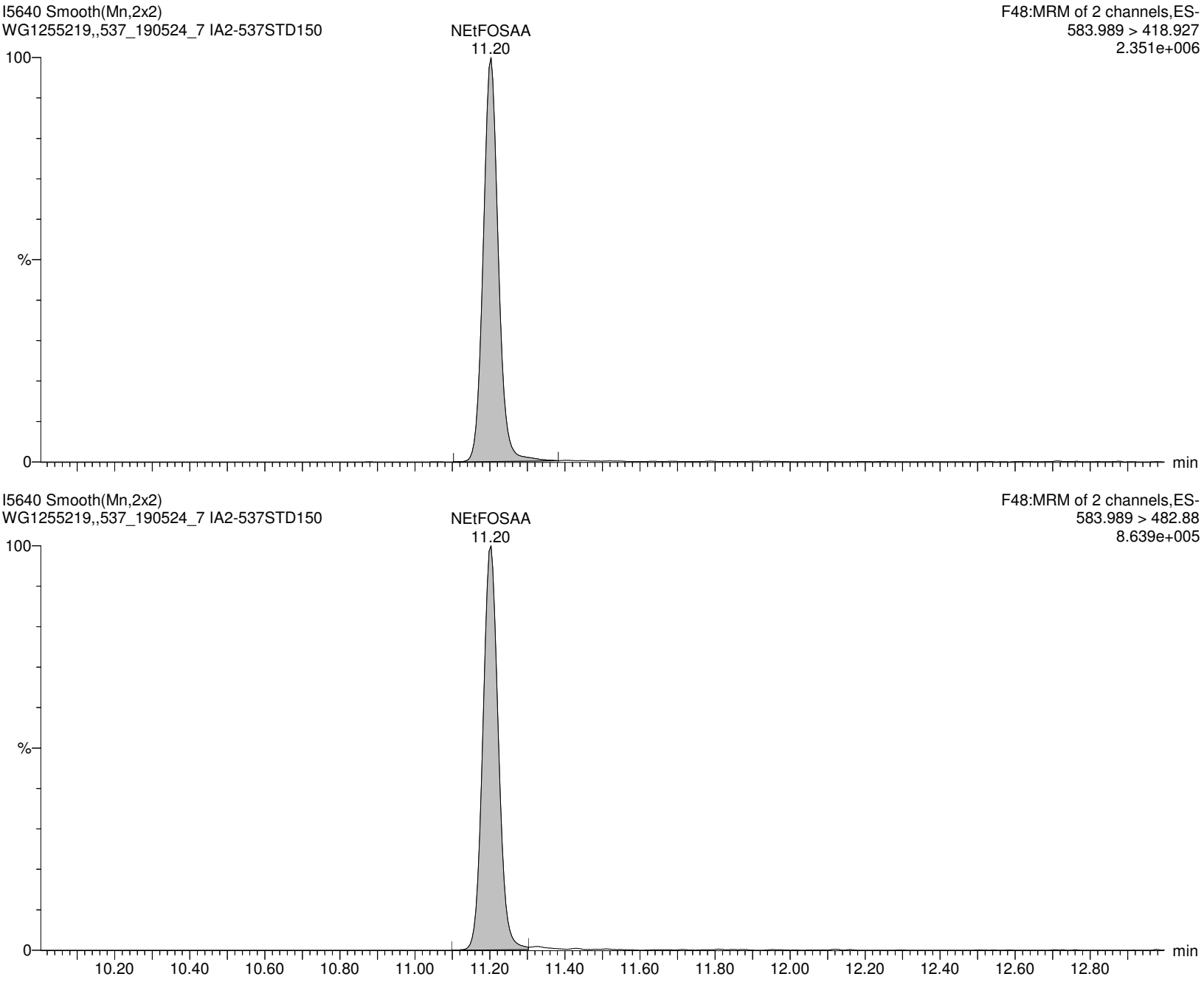


all concentration units in (ng/mL)

Alpha Analytical Inc.
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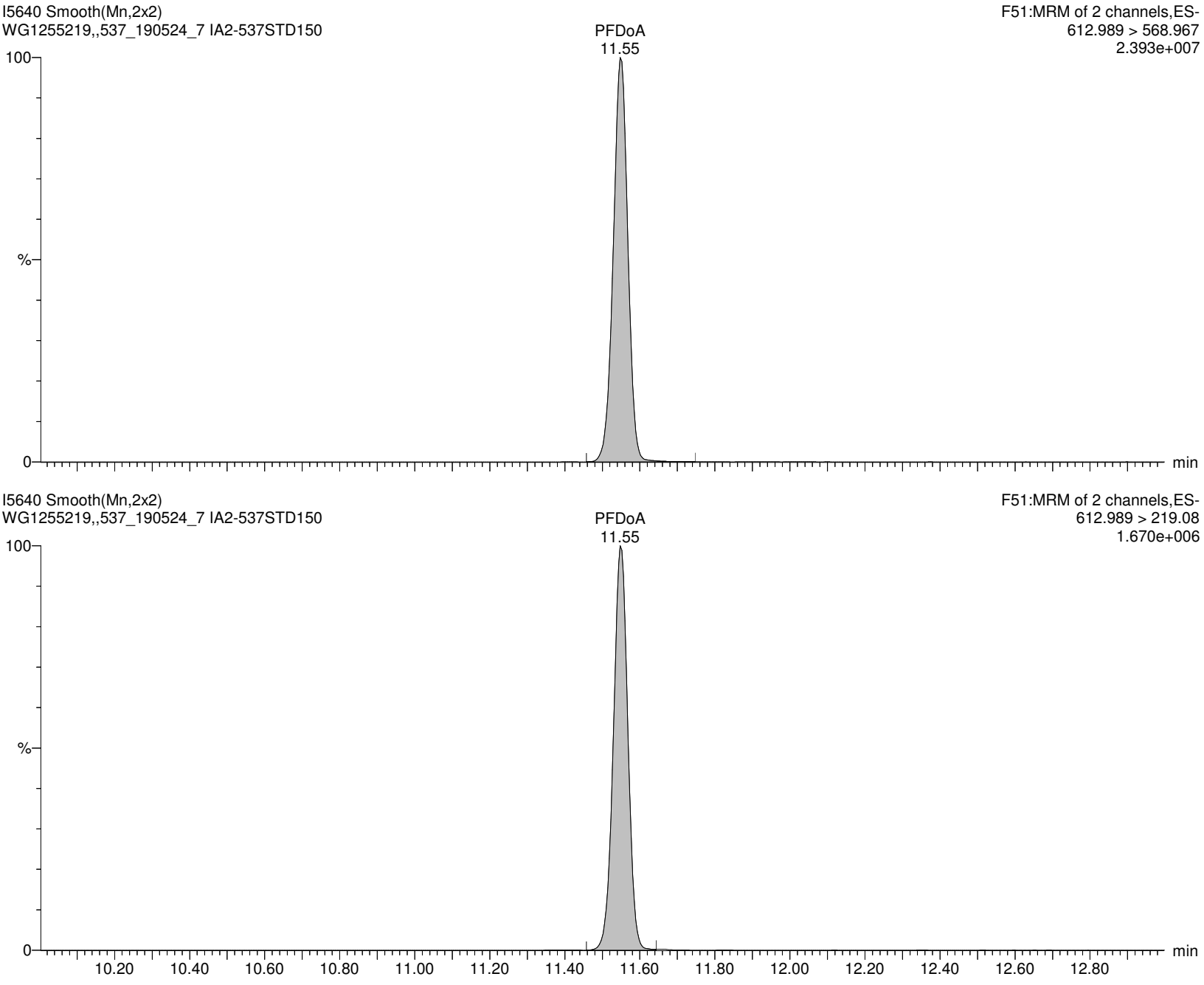


all concentration units in (ng/mL)

Alpha Analytical Inc.
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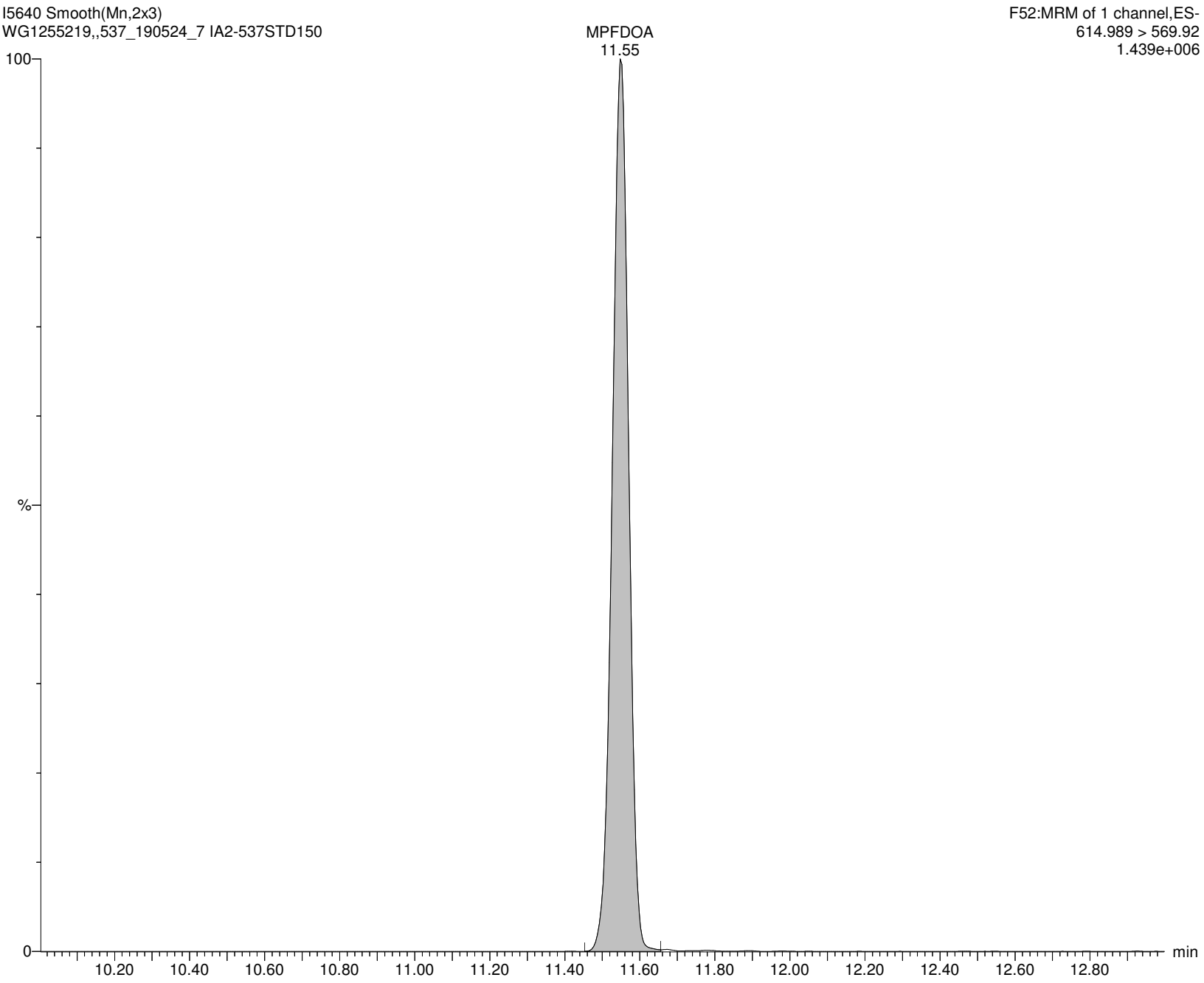


all concentration units in (ng/mL)

Alpha Analytical Inc.
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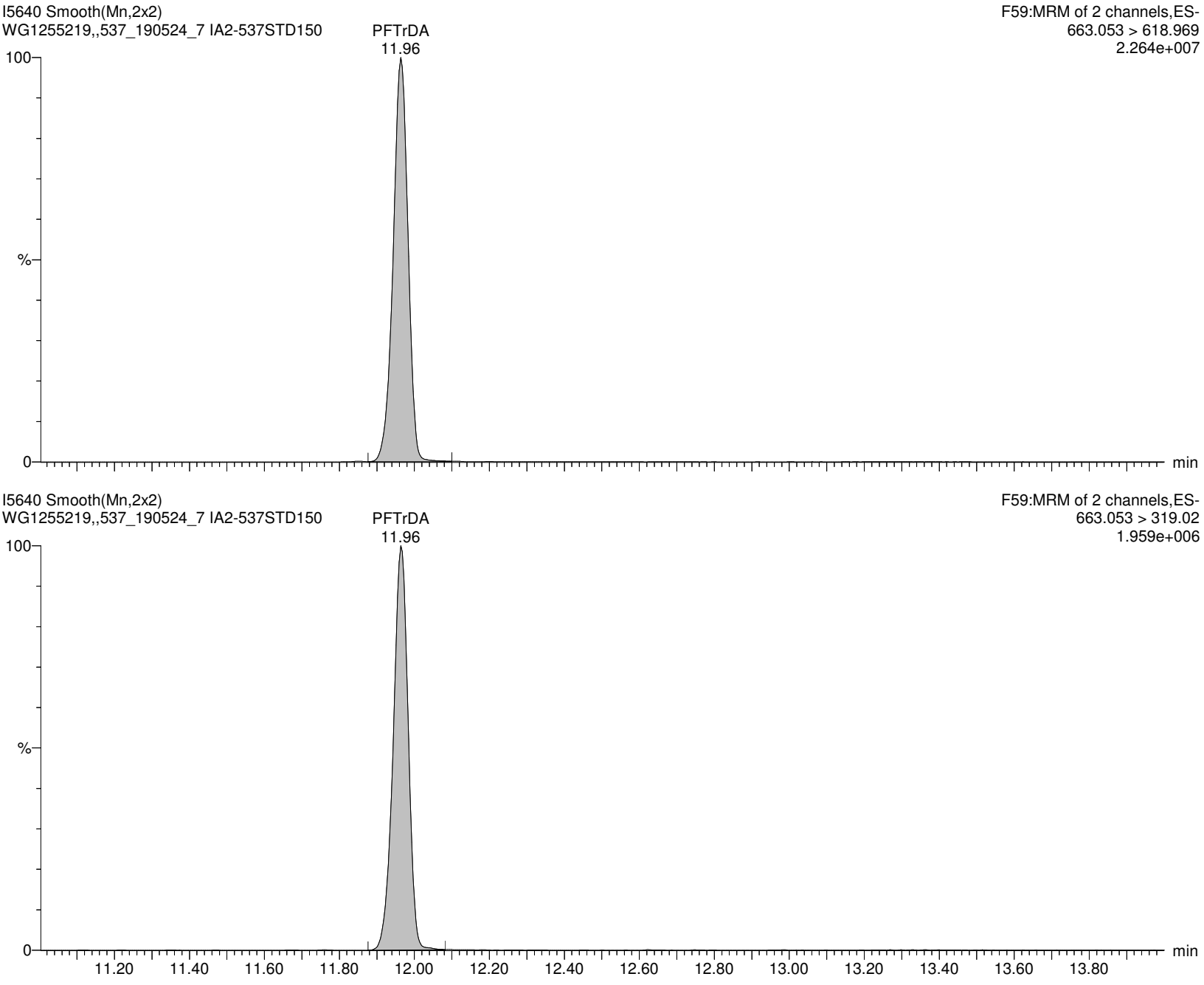


all concentration units in (ng/mL)

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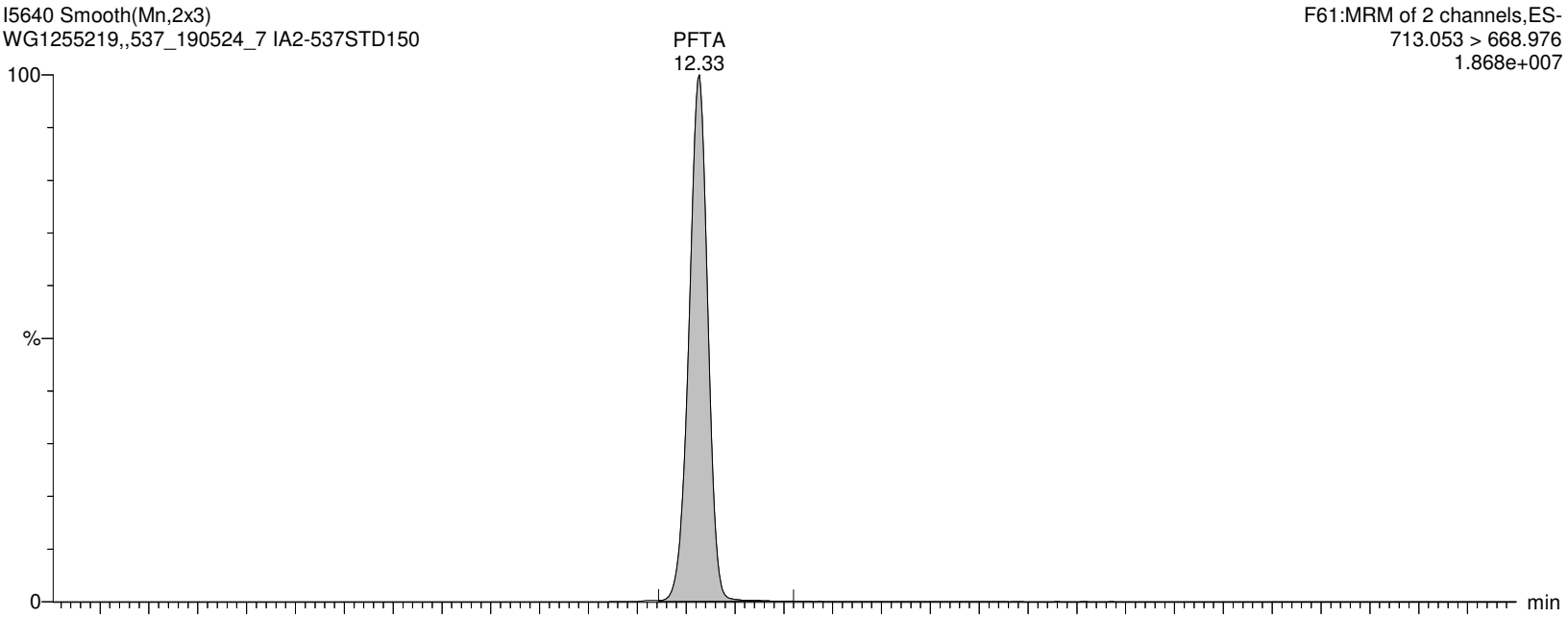


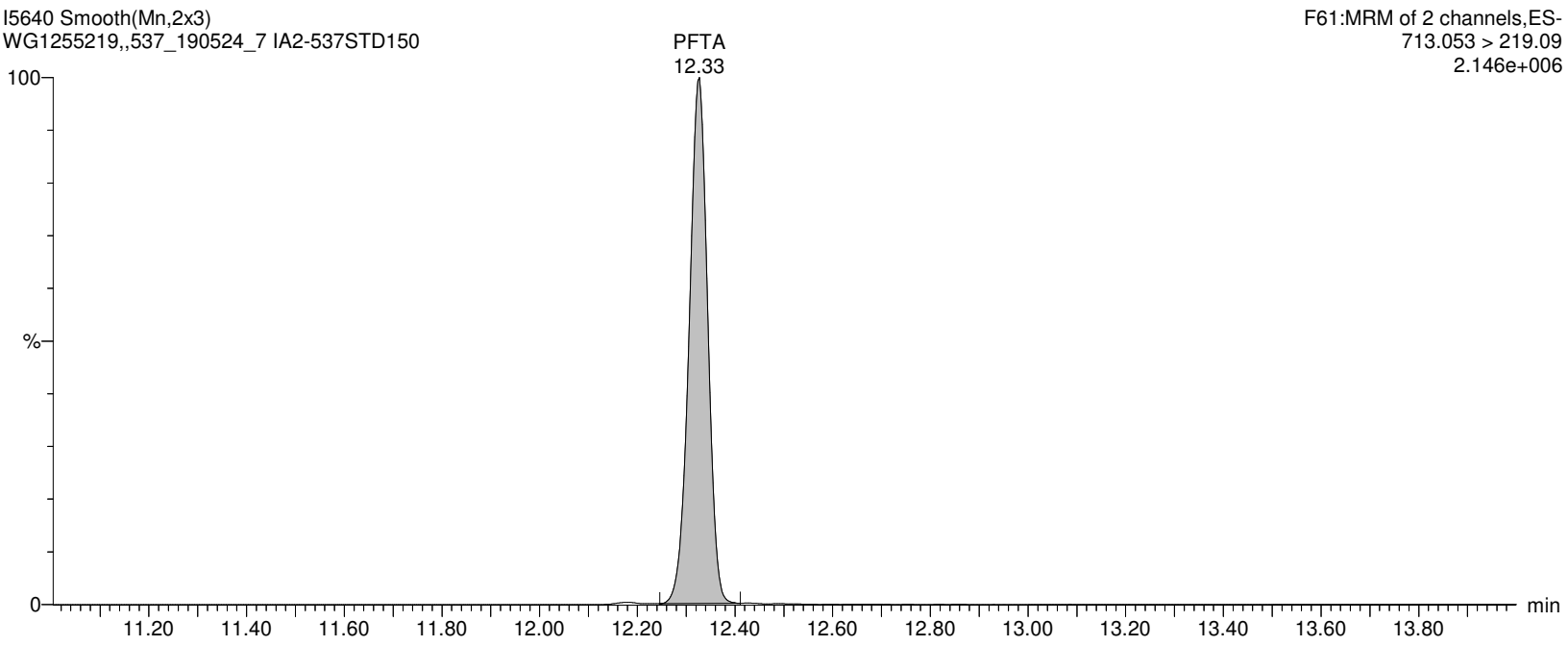
all concentration units in (ng/mL)

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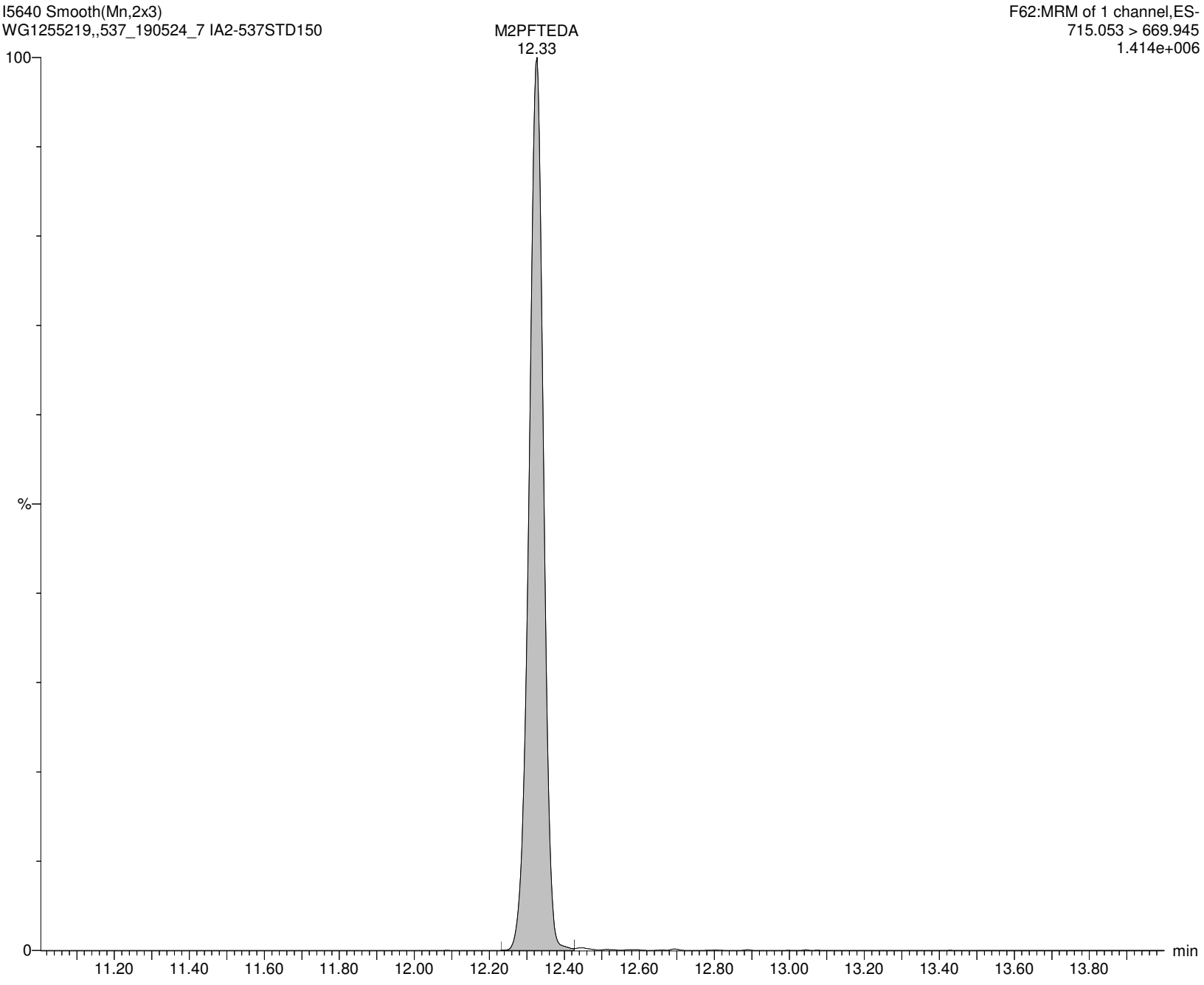


all concentration units in (ng/mL)

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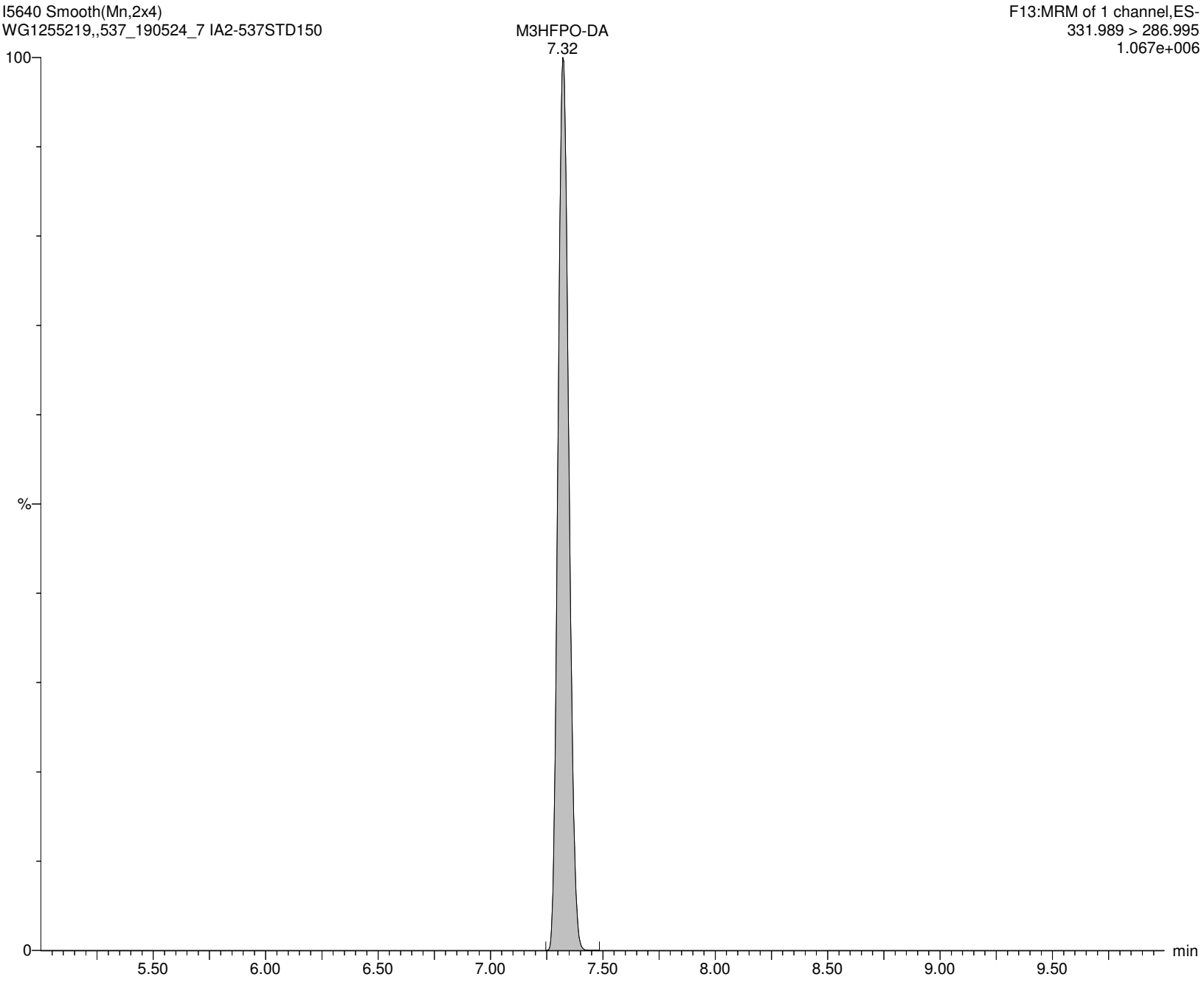


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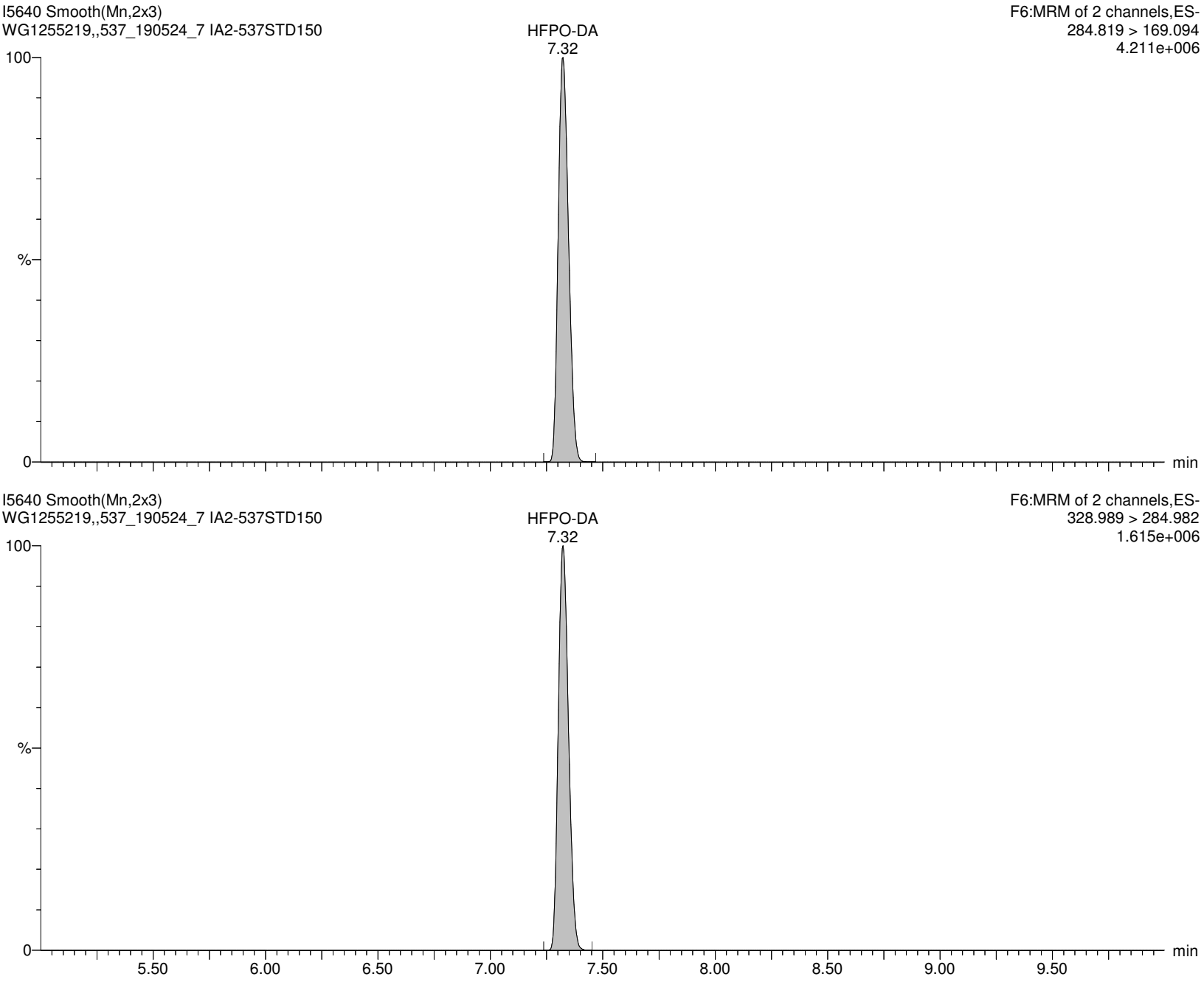


all concentration units in (ng/mL)

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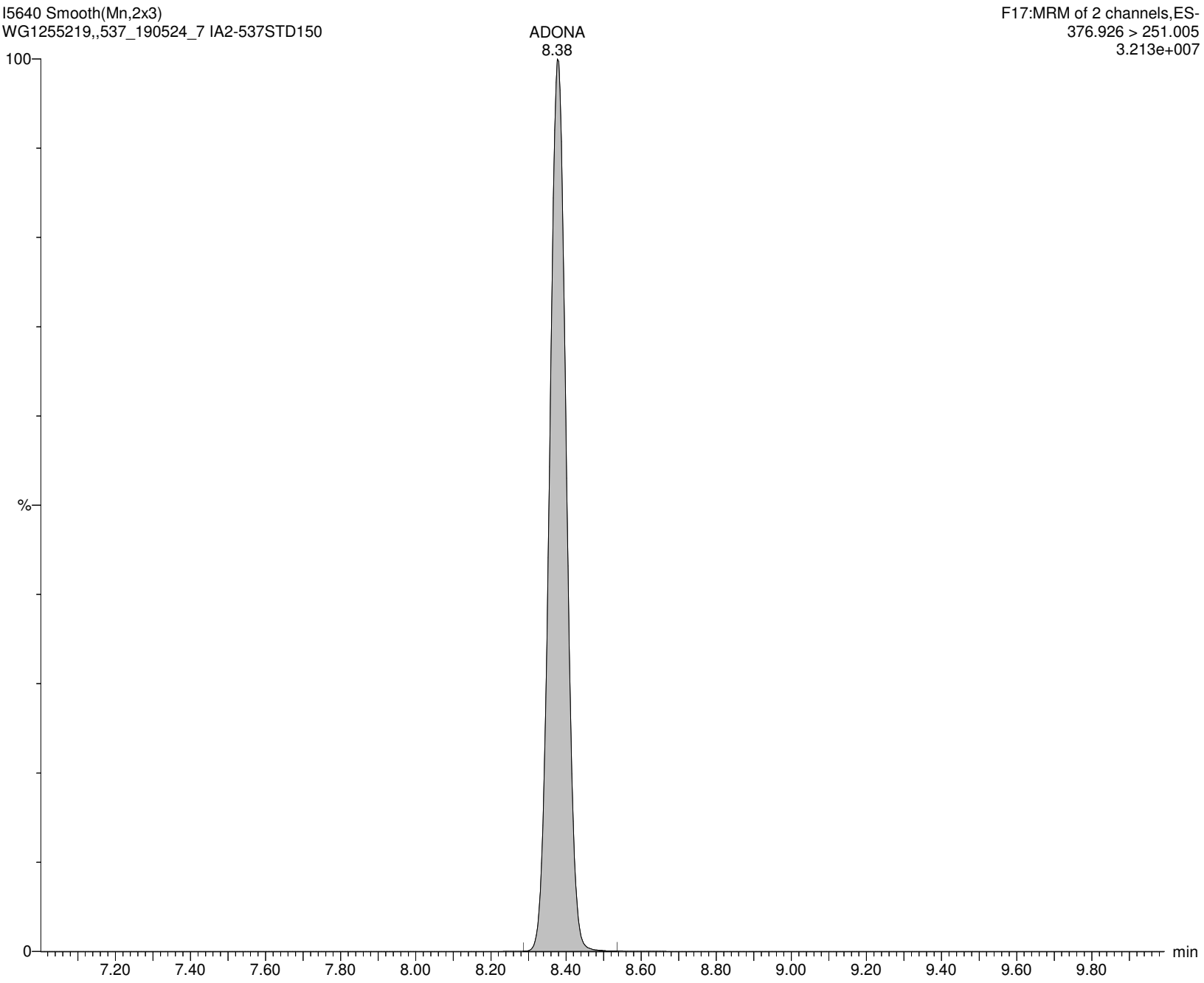


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ADONA

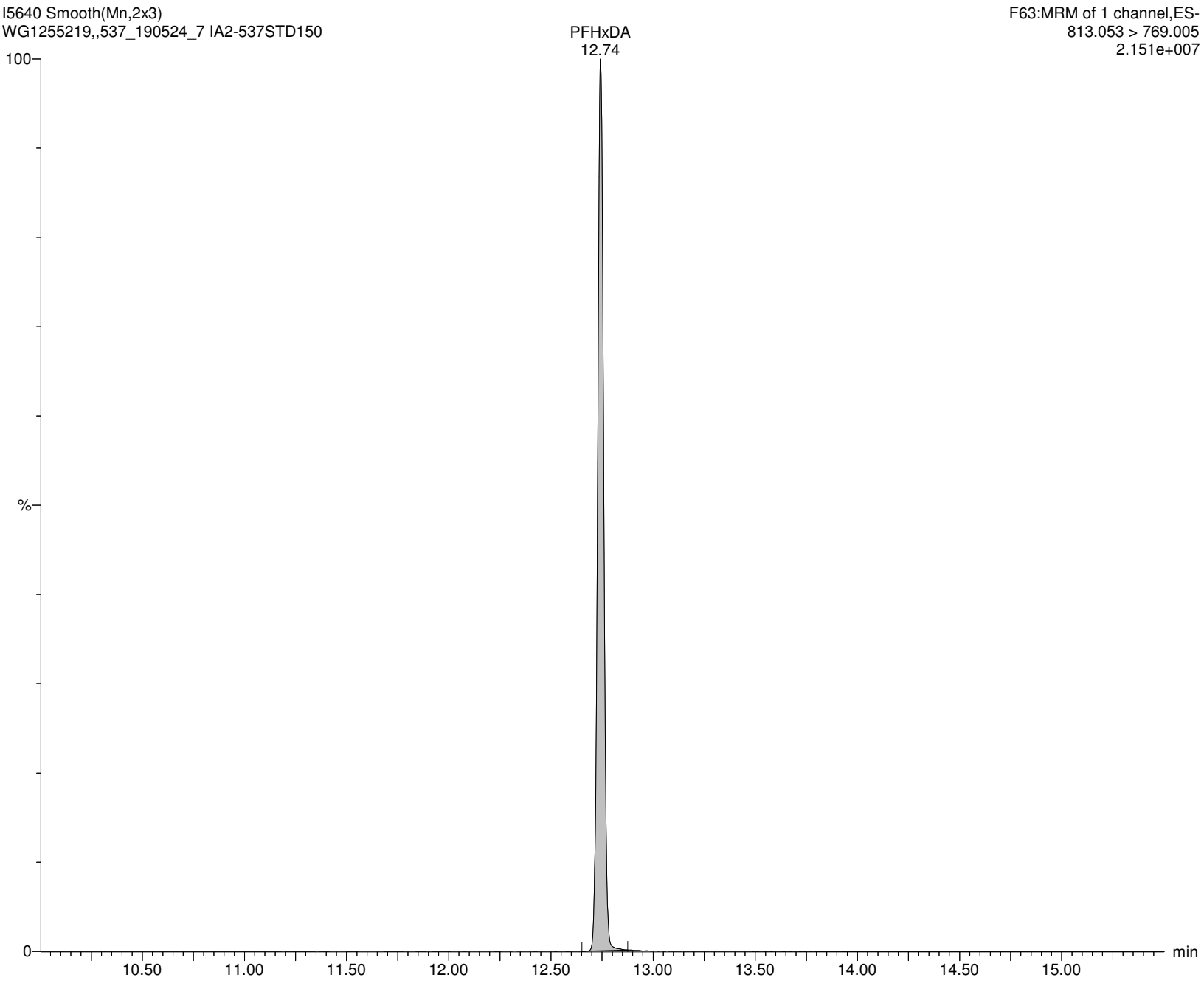


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:41 Eastern Daylight Time

Name: I5640
ID: IA2-537STD150
Date: 01-Jul-2019
Time: 19:36:40
Description: WG1255219,,537_190524_7
User: LCMS02:JW
Vial: 1:A,8
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\181009_TUNE.IPR
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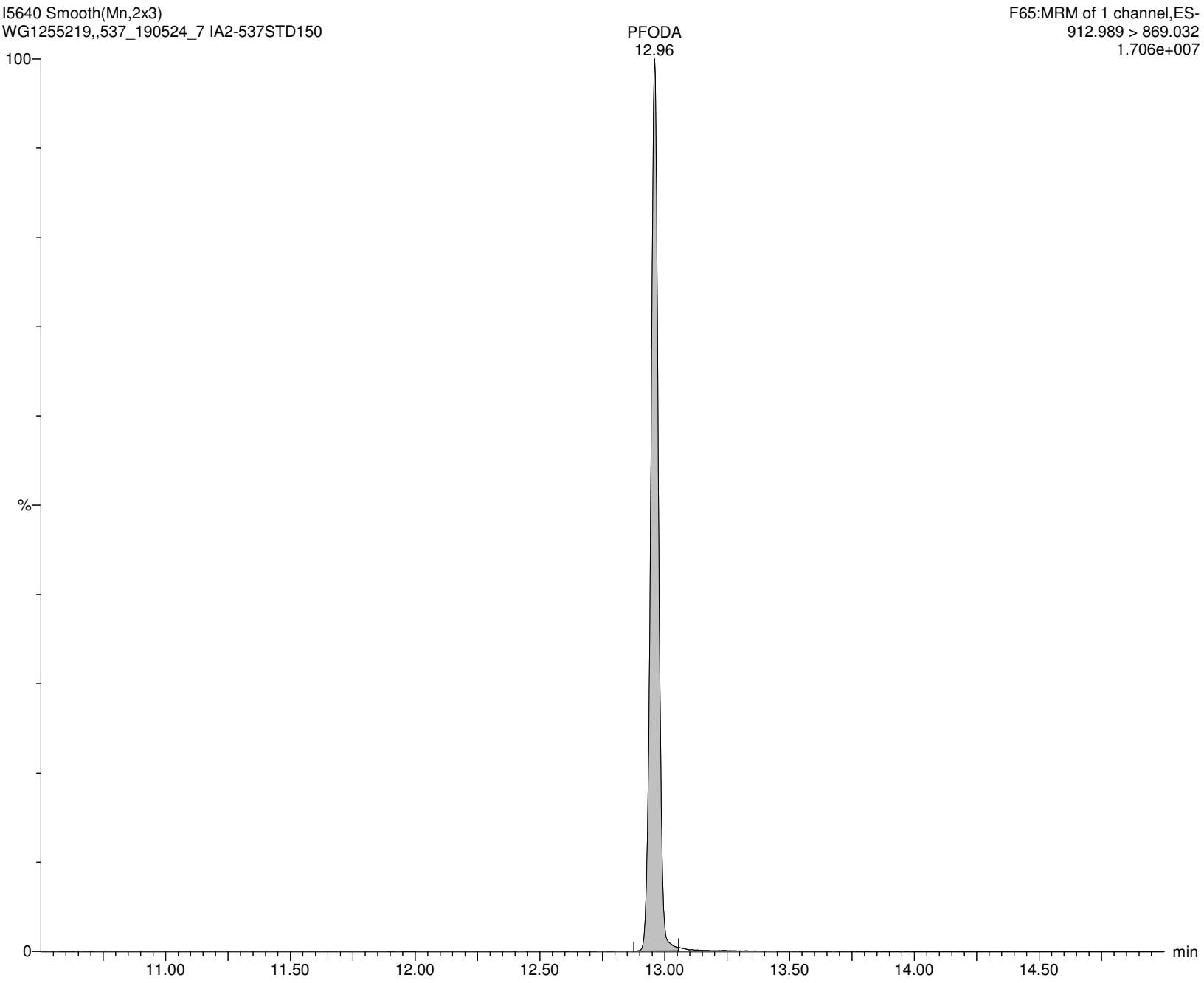


all concentration units in (ng/mL)

Alpha Analytical Inc.
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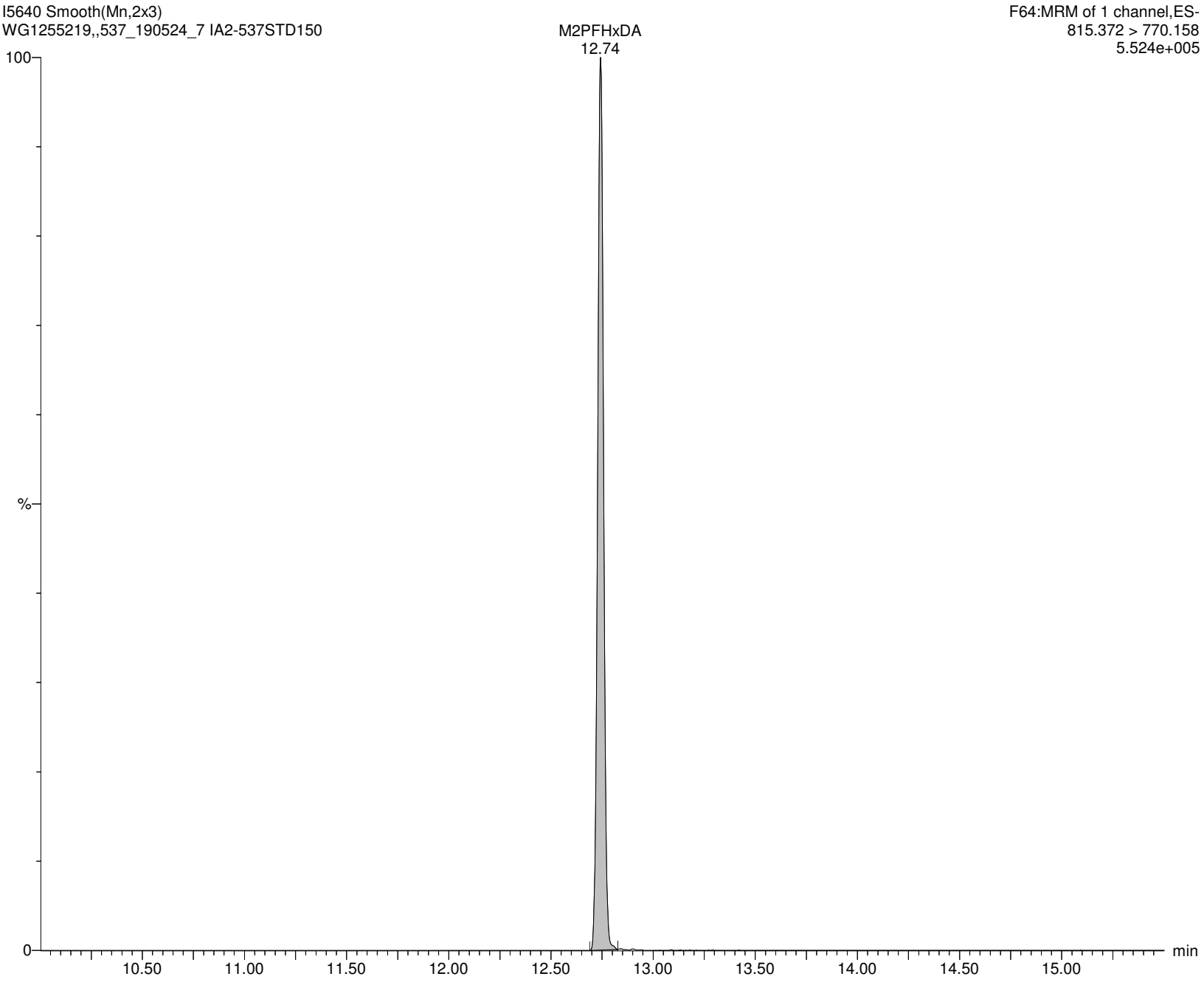


all concentration units in (ng/mL)

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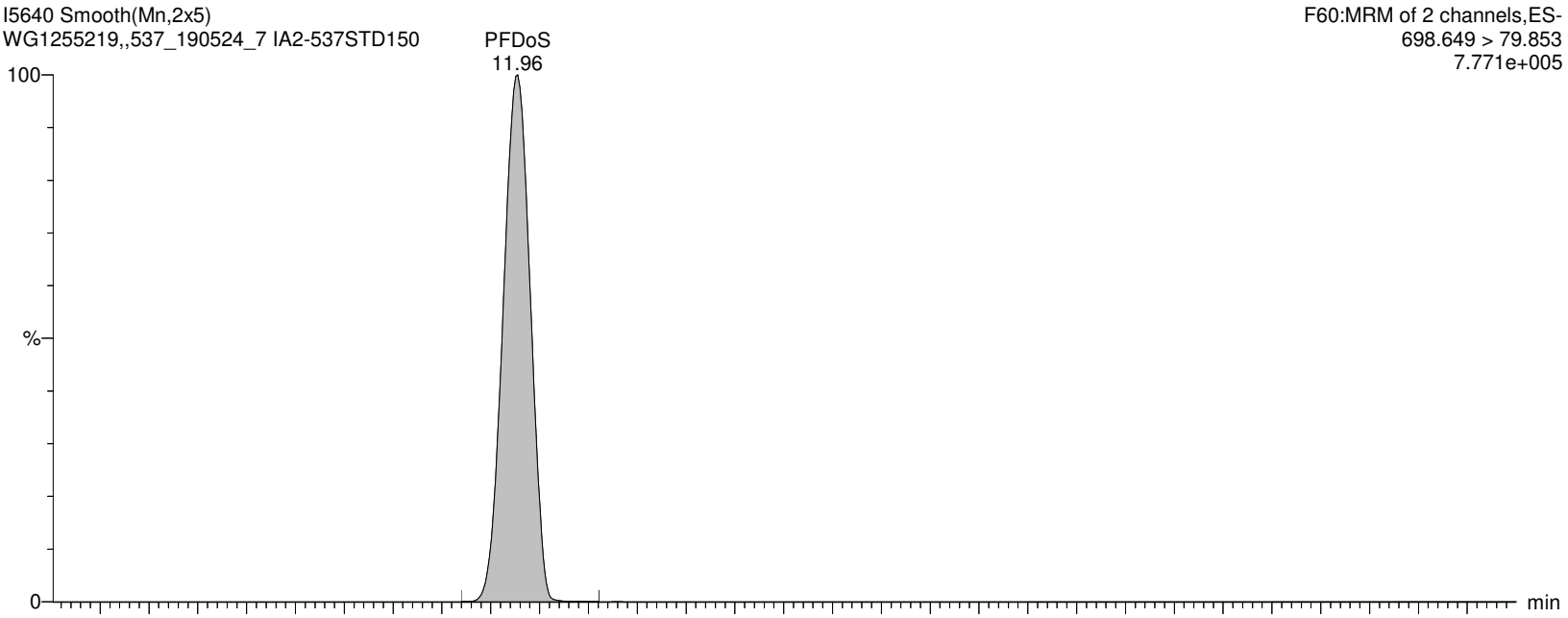


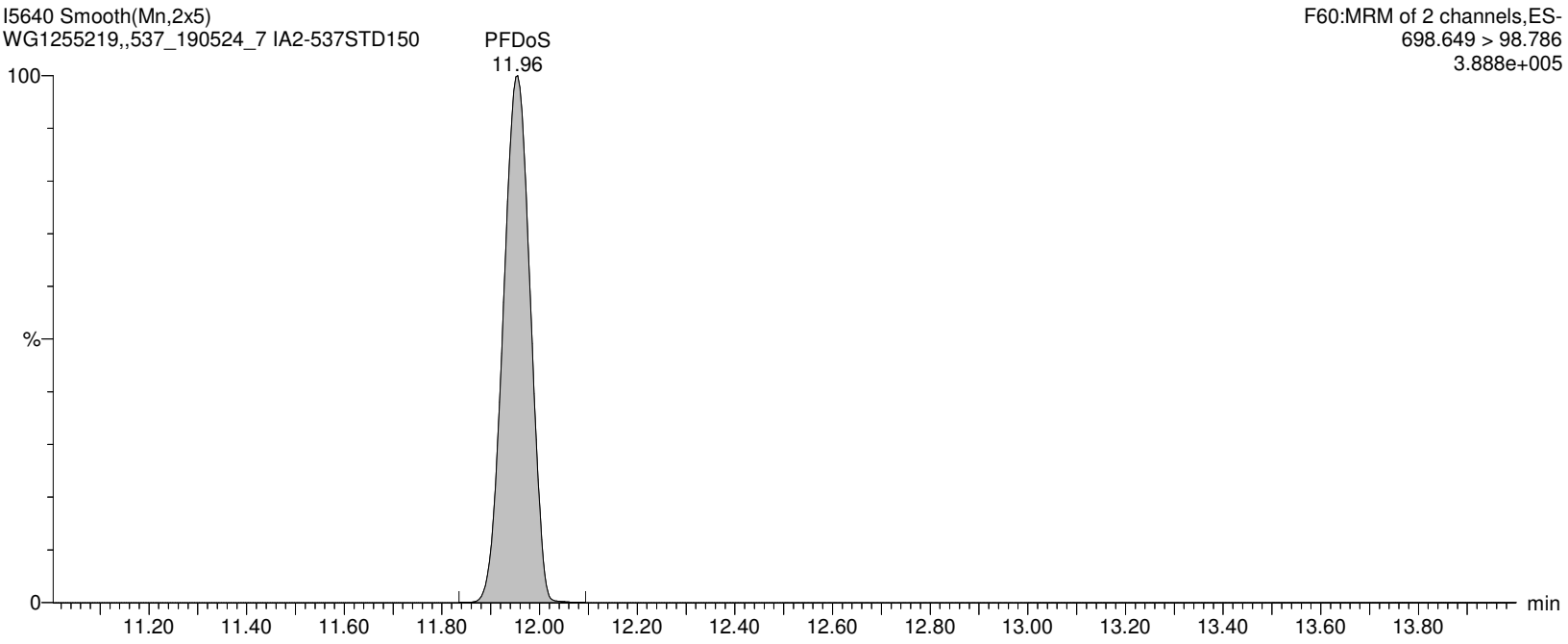
all concentration units in (ng/mL)

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PFDoS



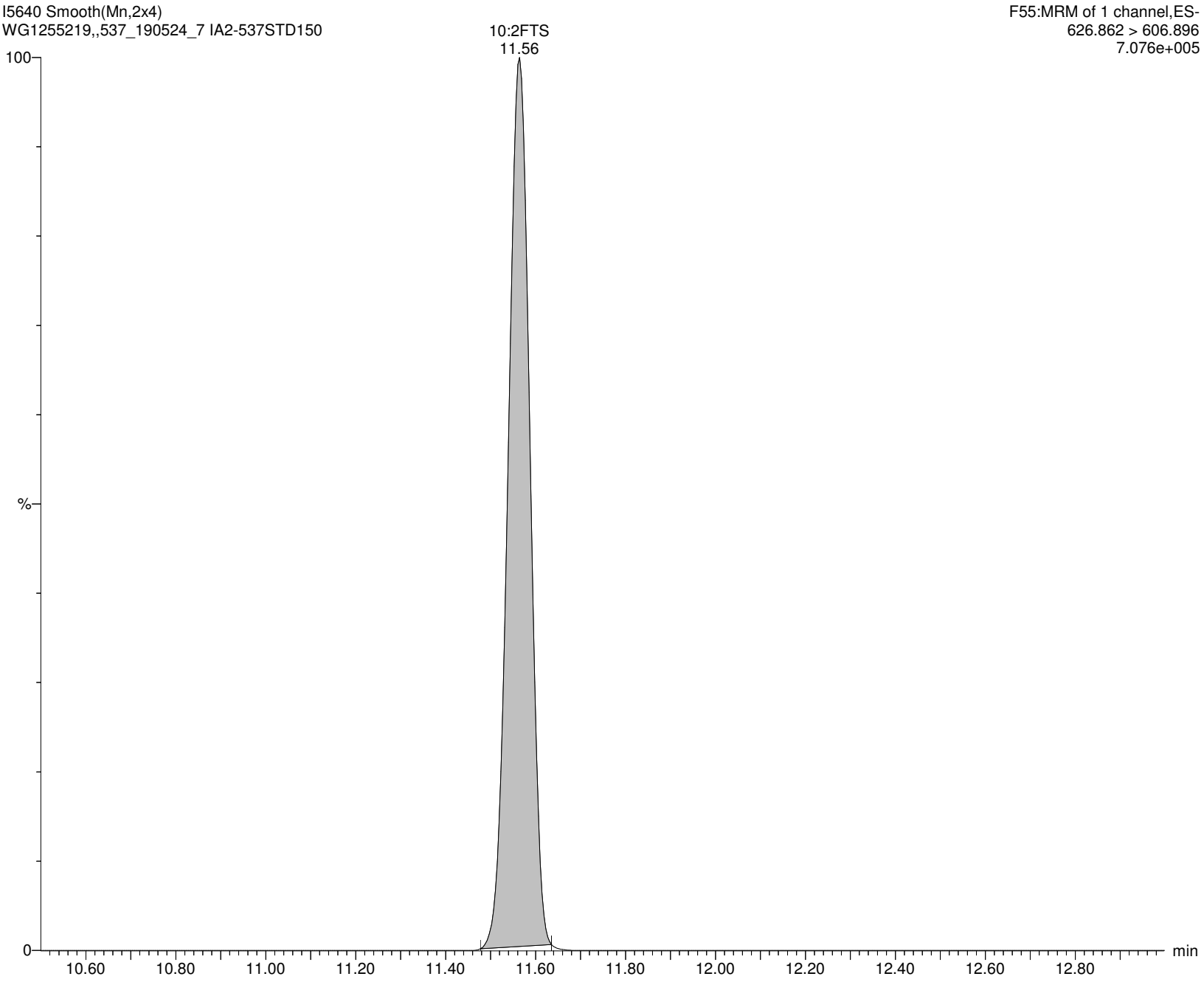


all concentration units in (ng/mL)

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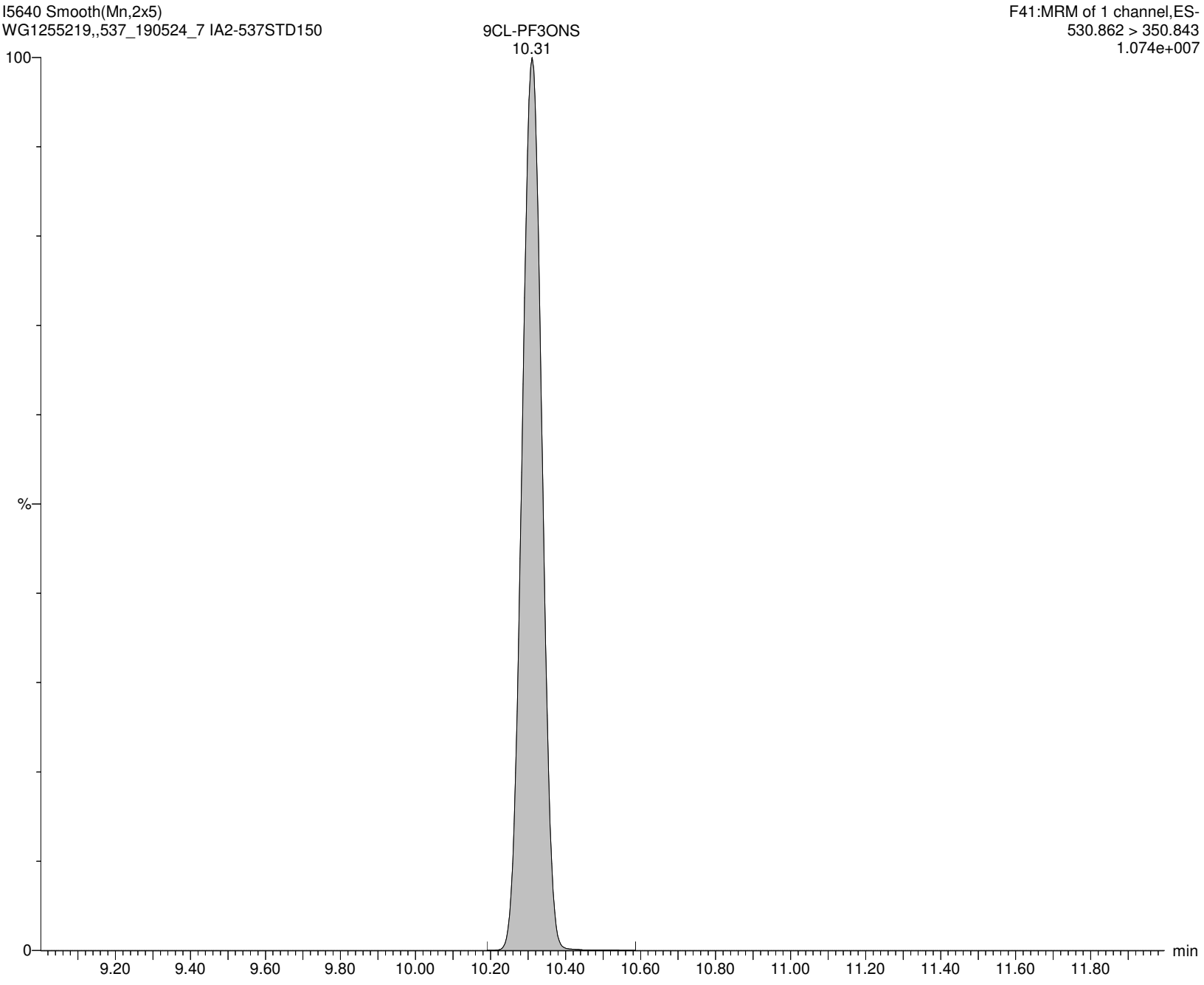


all concentration units in (ng/mL)

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9CL-PF3ONS

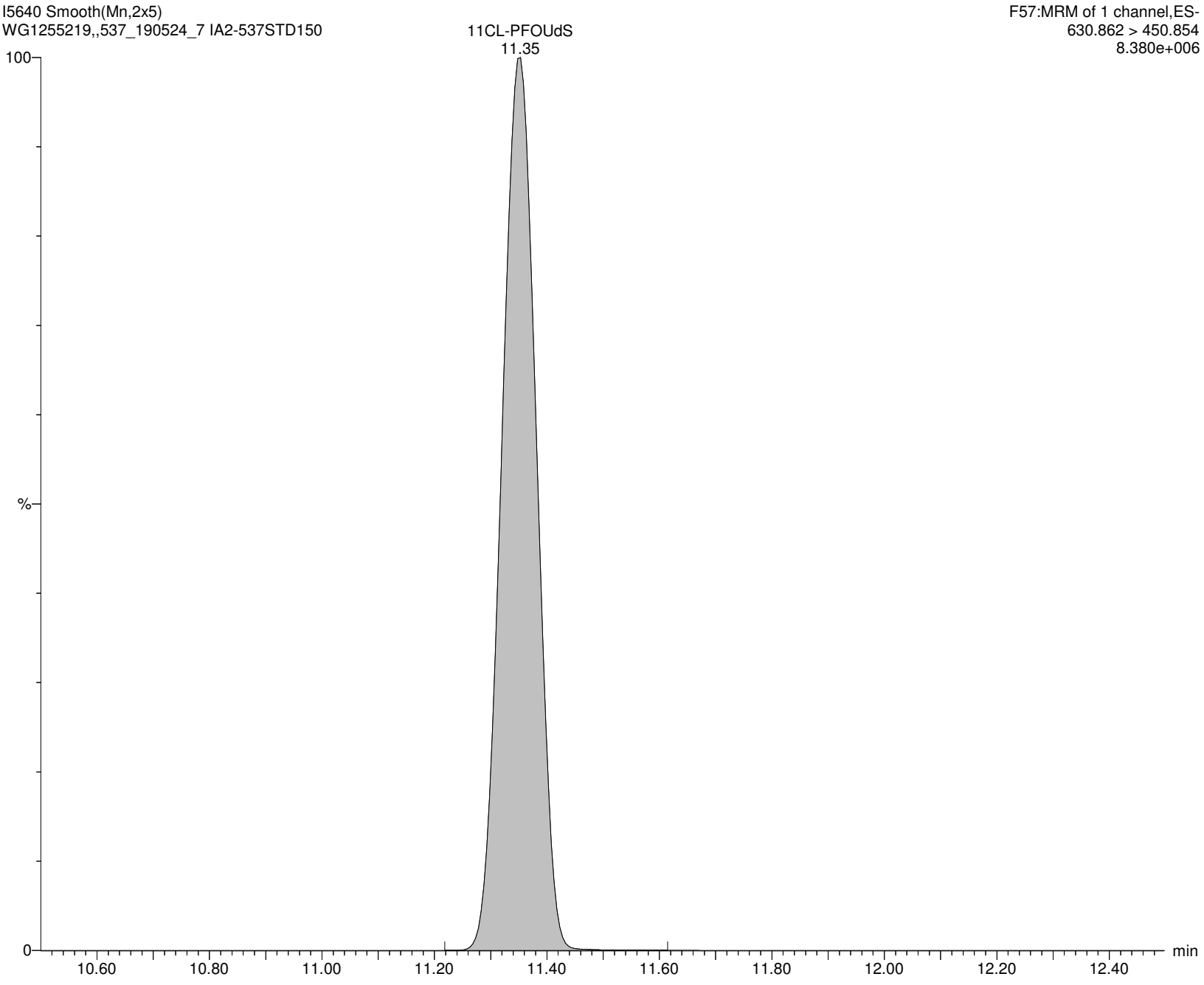


all concentration units in (ng/mL)

Alpha Analytical Inc.
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11CL-PFOUdS

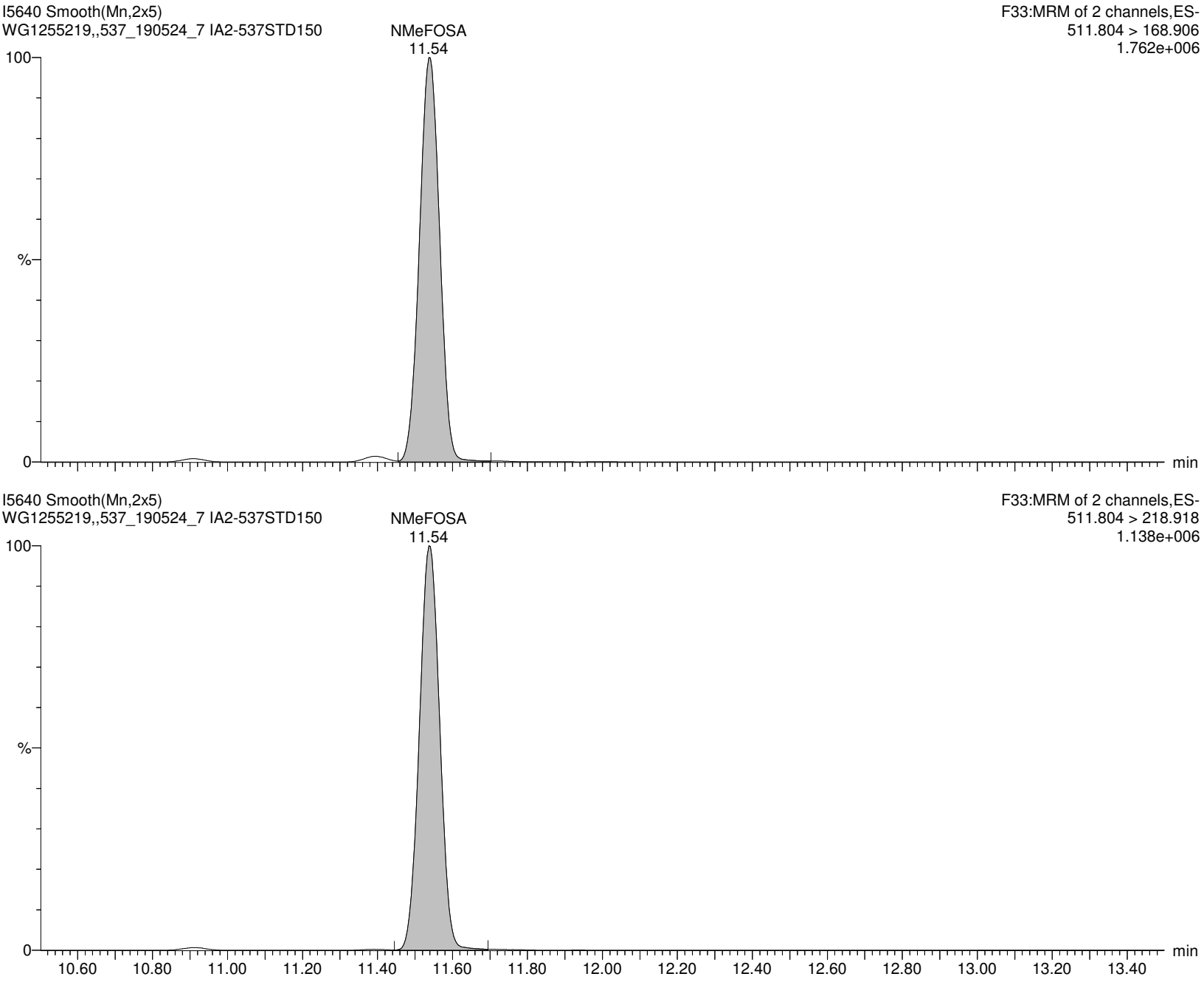


all concentration units in (ng/mL)

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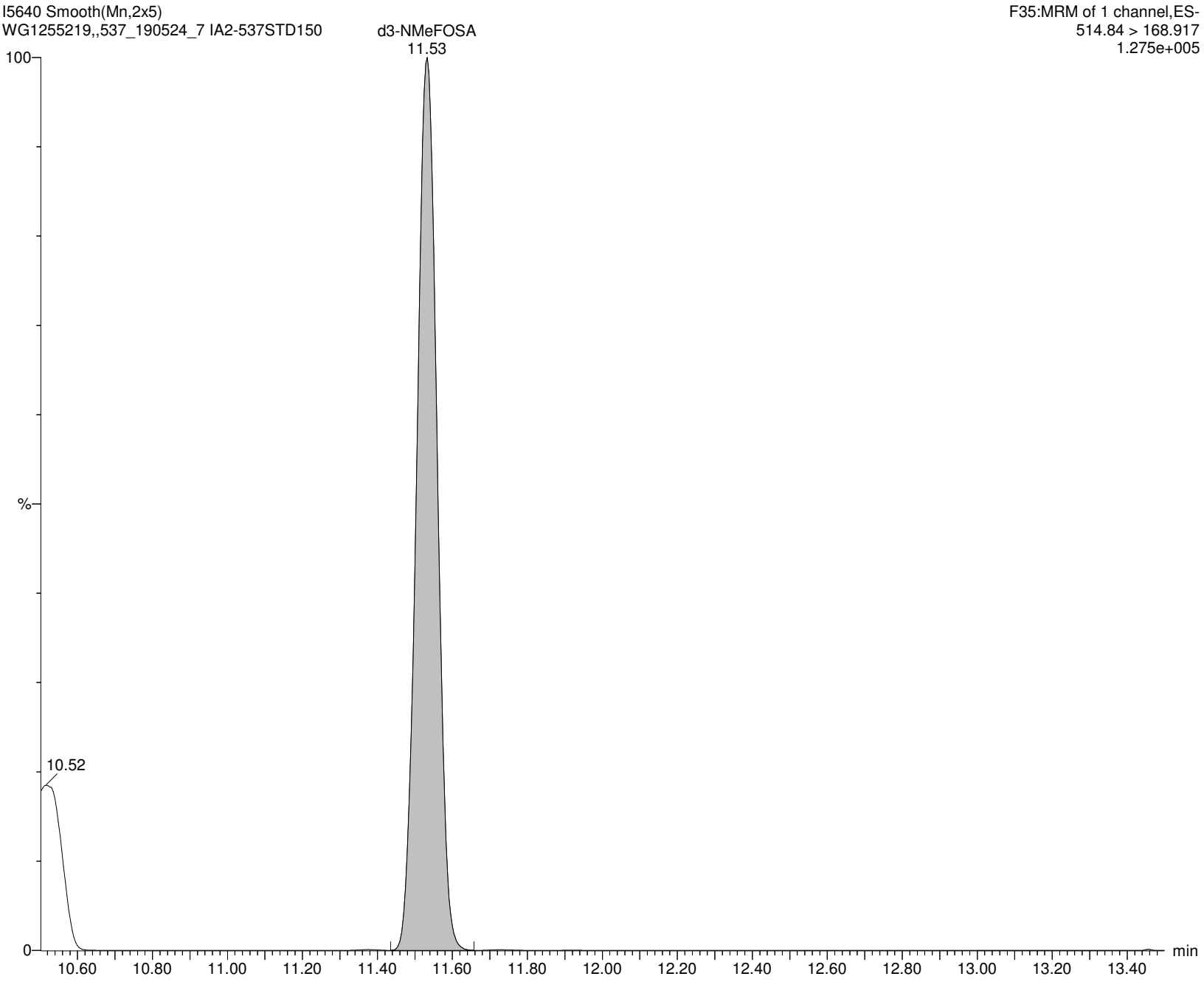


all concentration units in (ng/mL)

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d3-NMeFOSA

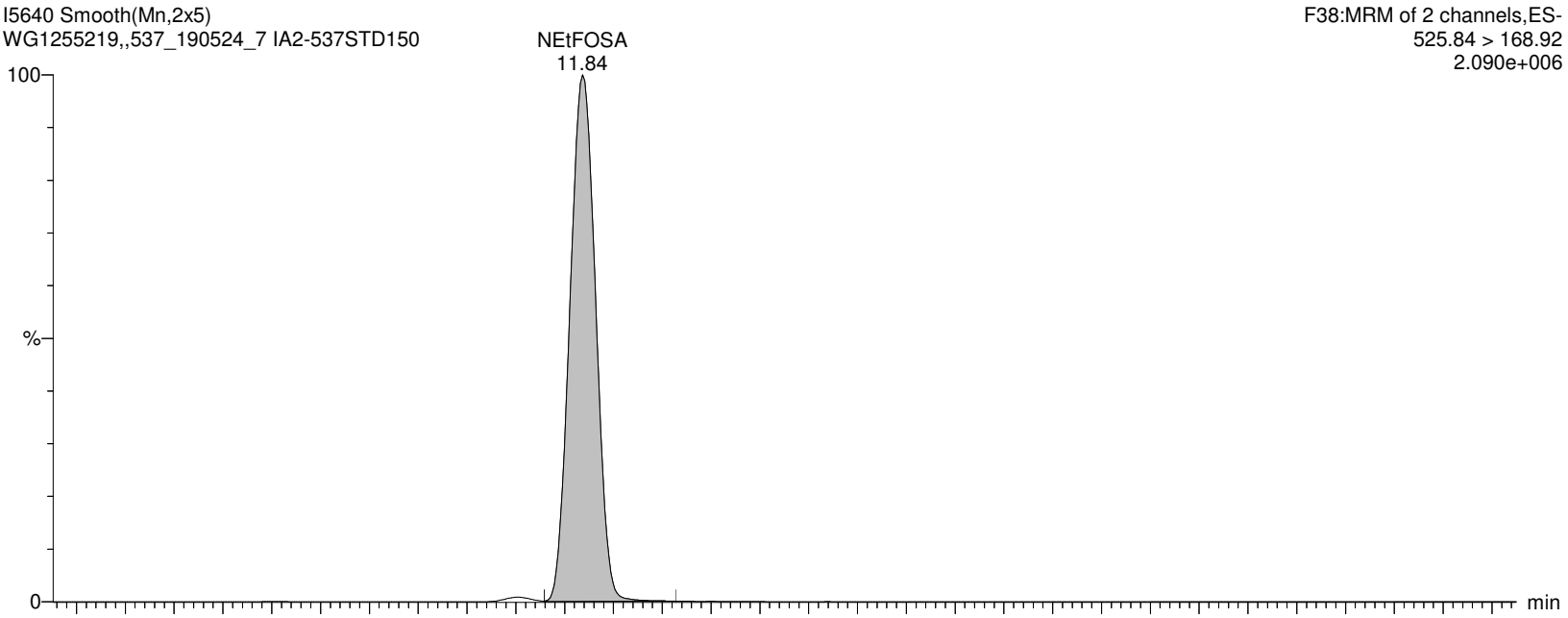


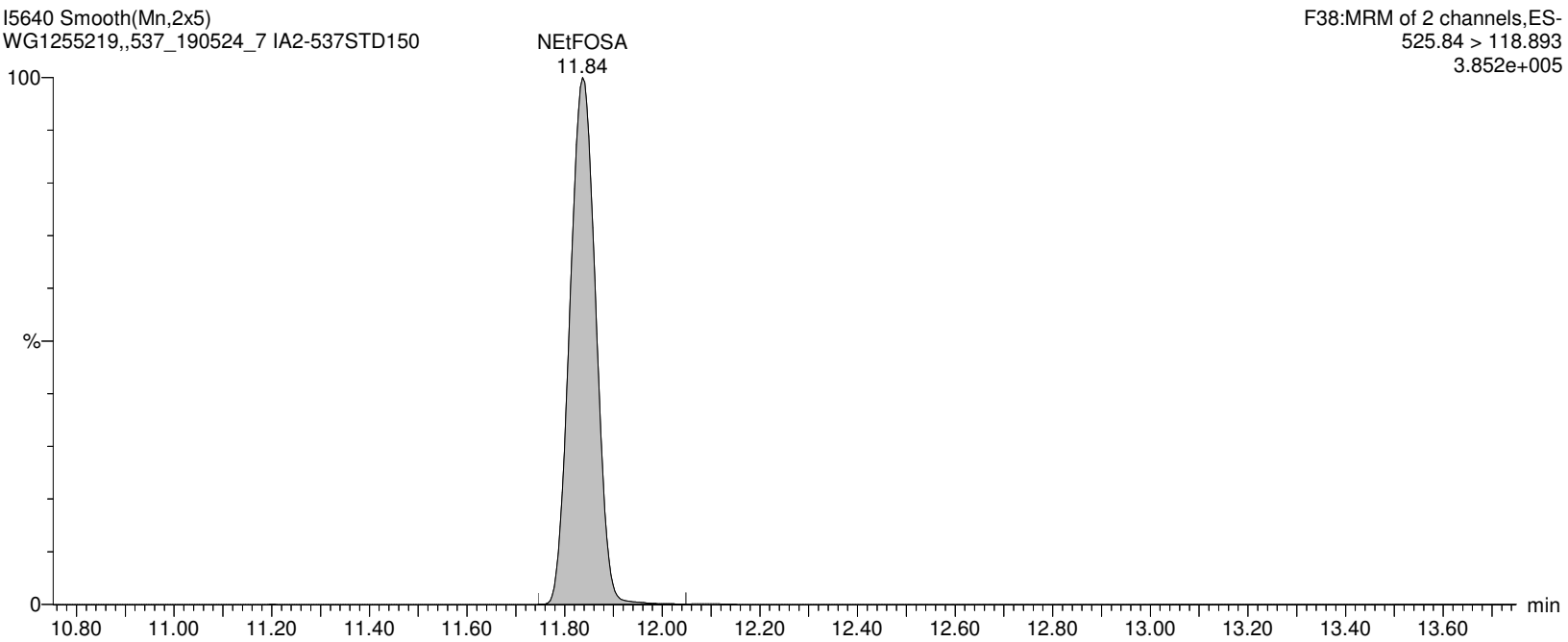
all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
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NEtFOSA



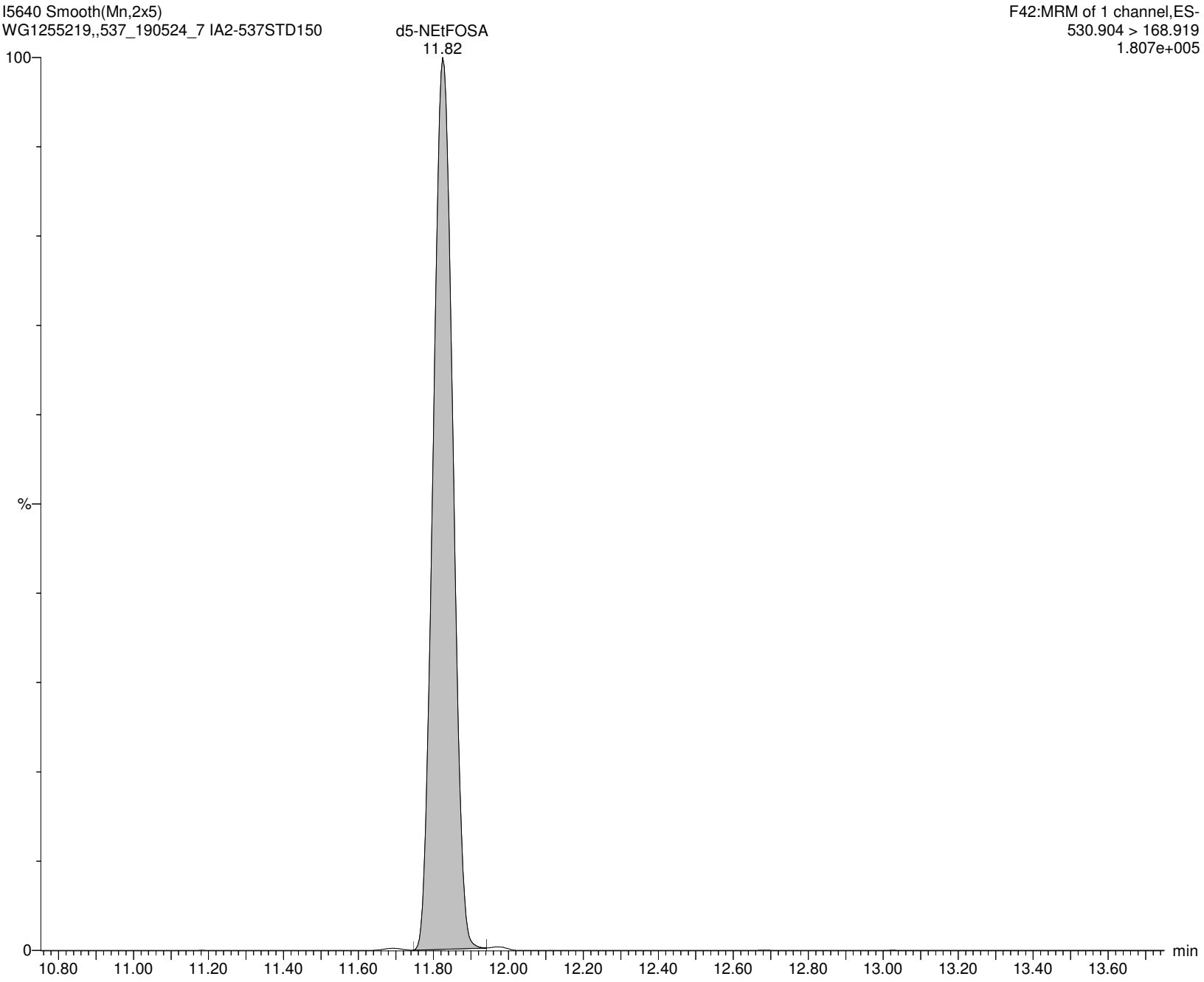


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
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User: LCMS02:JW
Vial: 1:A,8
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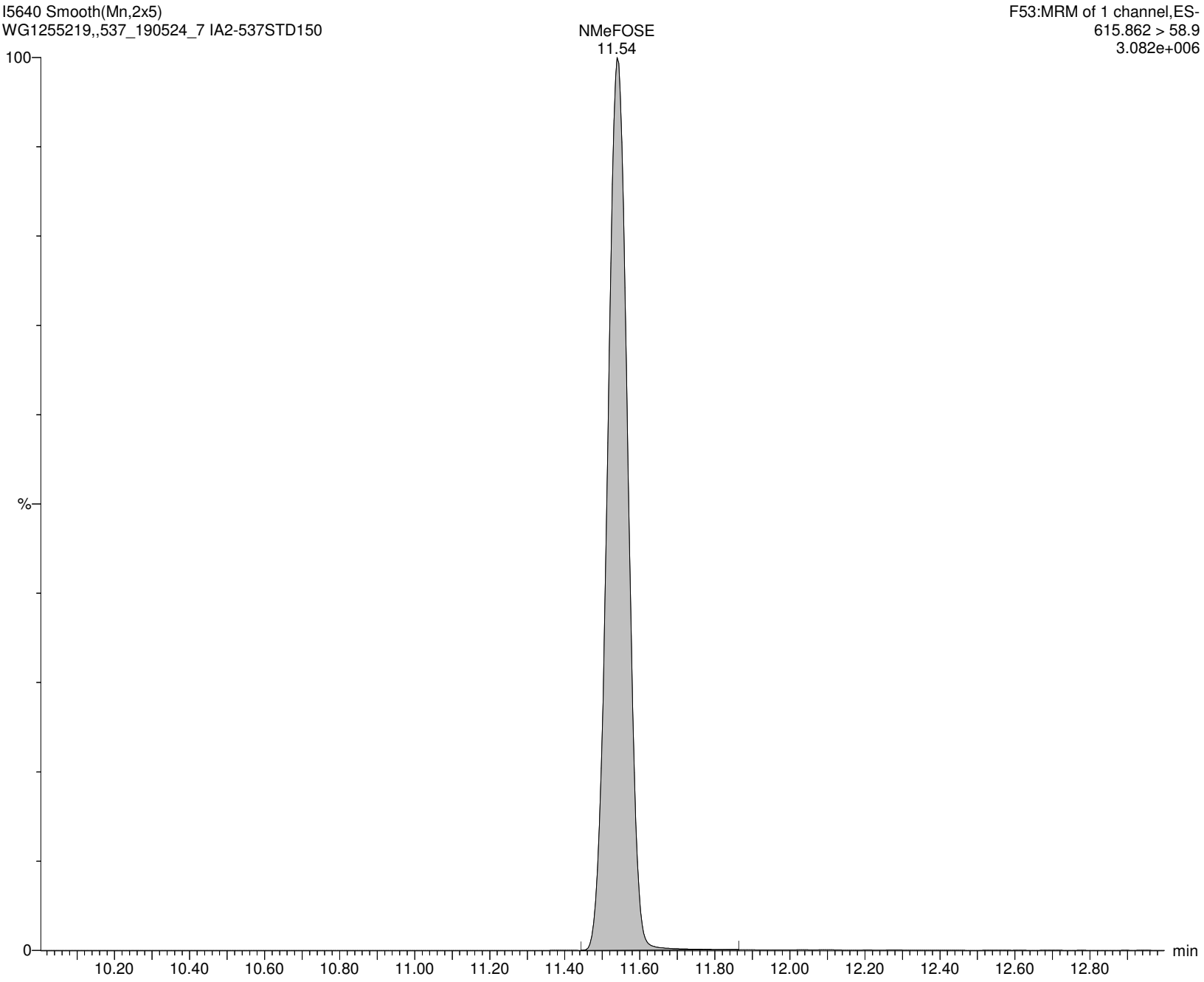


all concentration units in (ng/mL)

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NMeFOSE

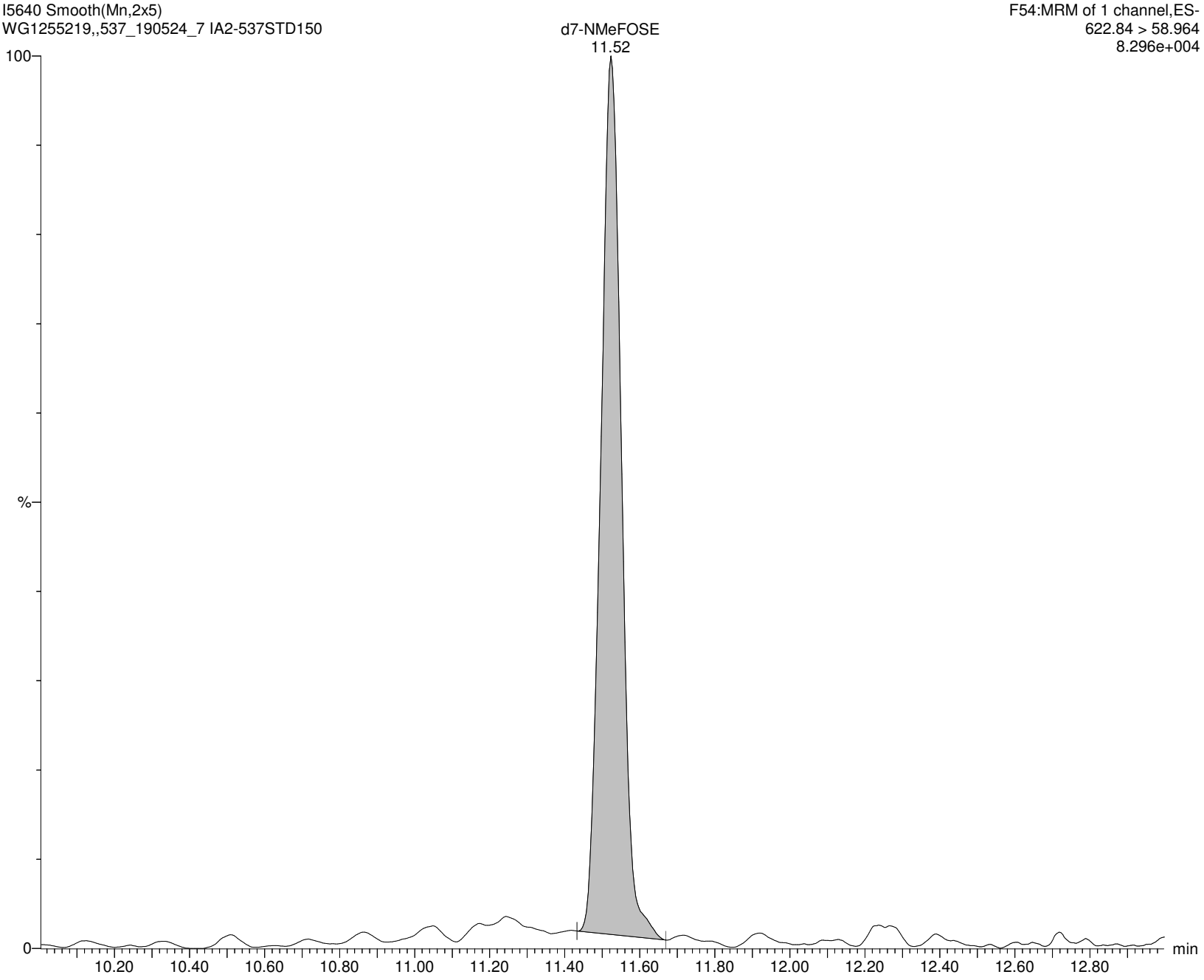


all concentration units in (ng/mL)

Alpha Analytical Inc.
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d7-NMeFOSE

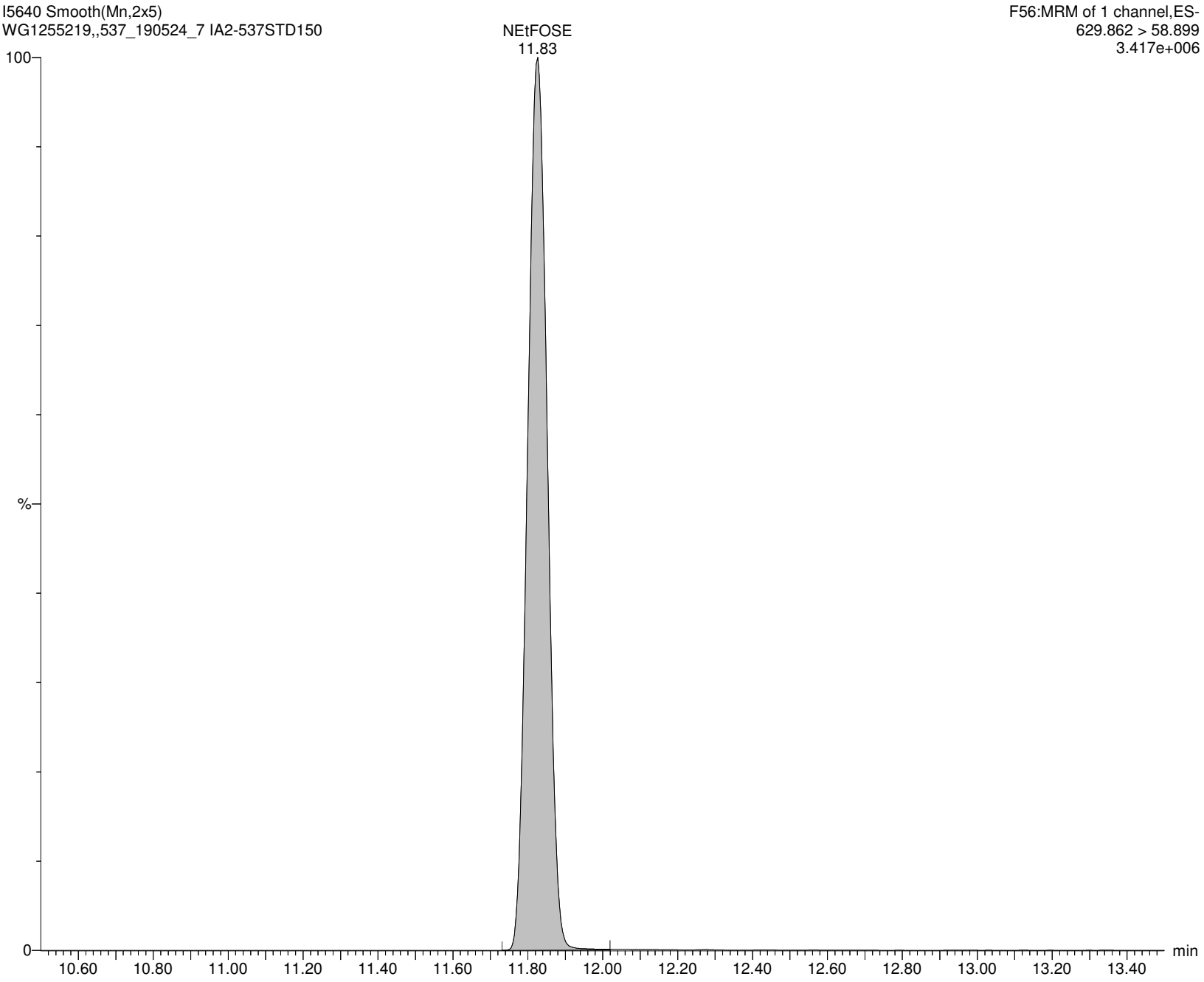


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
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NEtFOSE

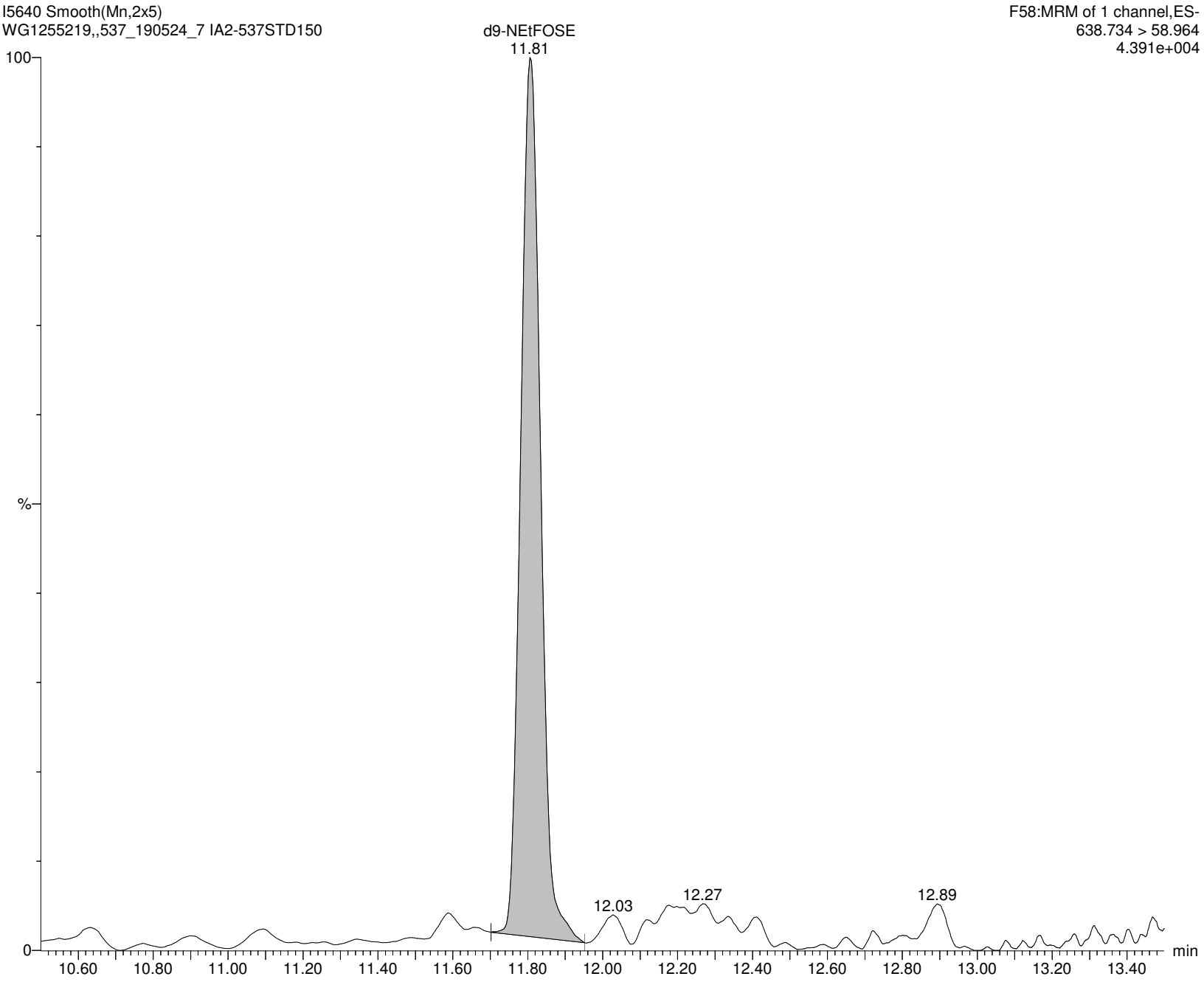


all concentration units in (ng/mL)

Alpha Analytical Inc.
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d9-NEtFOSE



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:43 Eastern Daylight Time

Method: C:\MassLynx\Data\2019\190701_537ISO.PRO\MethDB\537ISO_Q_190702_DOD.mdb 17 Jun 2019 11:52:40
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Date: 01-Jul-2019
Time: 19:53:14
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Instrument: XEVO-TQSmicro#QEB0050
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MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.10	212.926 > 169.111	1047430		266.422		na	106.6
2	M3PFBA	INT STD	2.09	215.926 > 172.122	37540		9.706		na	97.1
3	MPFBA	INT STD	2.10	216.926 > 172.137	43206		10.264		na	102.6
4	PFPeA	2706-90-3	4.98	262.926 > 219.002	1567355		266.411		na	106.6
5	M5PFPEA	INT STD	4.98	267.989 > 223.081	57332		9.622		na	96.2
6	PFBS	375-73-5	5.64	298.926 > 79.923	309415		238.989	1.90	YES	108.0
7	M3PFBS	INT STD	5.64	301.989 > 80.254	8701		11.511		na	115.1
8	4:2FTS	757124-72-4	6.82	326.926 > 306.957	138950		ND	2.20	NO	
9	M2-4:2FTS	INT STD	6.82	329.117 > 309.079	10853		23.961		na	239.6
10	PFHxA	307-24-4	6.90	312.989 > 269.028	1817505		267.112	18.03	NO	106.8
11	M5PFHxA	INT STD	6.90	317.989 > 273.045	68833		10.005		na	100.0
12	PFPeS	2706-91-4	7.21	348.926 > 80.251	222424		259.897	1.87	NO	110.6
13	PFHpA	375-85-9	8.19	362.926 > 319.014	2299362		266.485	5.81	NO	106.6
14	M4PFHpA	INT STD	8.19	366.926 > 321.979	86541		9.873		na	98.7
15	br-PFHxS	355-46-4	8.12	398.926 > 80.295	38107	M5	42.449	2.38	NO	99.9
16	L-PFHxS	355-46-4	8.36	398.926 > 80.295	131023		201.462	1.20	YES	108.9
17	PFHxS	355-46-4		398.926 > 80.295	169130		243.911		na	
18	M3PFHxS	INT STD	8.35	401.926 > 80.317	4802		10.250		na	102.5
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	YES	
20	L-PFOA	335-67-1	9.15	412.989 > 368.9	2128081		266.706	9.36	NO	106.7
21	M2PFOA	INT STD	9.15	415.032 > 369.968	81610		8.951		na	89.5
22	PFOA	335-67-1		412.989 > 368.9	2128081		266.706		na	
23	M8PFOA	INT STD	9.15	420.989 > 375.979	80390		9.914		na	99.1
24	6:2FTS	27619-97-2	9.11	426.989 > 406.921	94399		ND	8.86	NO	
25	M2-6:2FTS	INT STD	9.11	428.989 > 408.917	9590		23.494		na	234.9
26	PFHpS	375-92-8	9.24	448.926 > 80.257	121441		247.891	0.92	NO	104.4
27	PFNA	375-95-1	9.90	462.989 > 418.931	1749314		265.075	4.18	NO	106.0
28	M9PFNA	INT STD	9.90	472.053 > 426.947	72740		9.687		na	96.9
29	br-PFOS	1763-23-1	9.77	498.989 > 80.294	58913	M5	50.004	4.41	NO	100.0
30	L-PFOS	1763-23-1	9.96	498.989 > 80.294	132770		188.633	1.45	NO	103.4
31	PFOS	1763-23-1		498.989 > 80.294	191683		238.637		na	
32	M4PFOS	INT STD	9.96	503.032 > 80.306	5679		7.636		na	76.4
33	M8PFOS	INT STD	9.96	507.053 > 80.294	6829		11.165		na	111.7
34	PFDA	335-76-2	10.53	513.053 > 468.906	1581521		263.097	6.10	NO	105.2
35	M2PFDA	INT STD	10.53	515.053 > 469.934	59141		8.269		na	82.7
36	M6PFDA	INT STD	10.53	519.053 > 473.931	66484		10.054		na	100.5
37	8:2FTS	39108-34-4	10.52	526.926 > 506.818	58141		ND		na	
38	M2-8:2FTS	INT STD	10.52	529.053 > 508.945	4694		20.954		na	209.5
39	PFNS	68259-12-1	10.56	548.989 > 80.249	163548		241.137	1.32	NO	100.5

all concentration units in (ng/mL)

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ID: IA2-537STD250
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MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.90	573.096 > 418.987	6993		10.656		na	106.6
41	NMeFOSAA	2355-31-9	10.91	570.053 > 418.917	194623		274.011	2.65	NO	109.6
42	PFUnA	2058-94-8	11.07	562.989 > 518.903	1533954		262.156	7.72	NO	104.9
43	M7-PFUDA	INT STD	11.07	570.053 > 524.923	56980		9.745		na	97.4
44	PFDS	335-77-3	11.09	598.926 > 80.314	121511		241.536	1.06	YES	100.1
45	FOSA	754-91-6	10.93	497.989 > 78.245	617127		265.504	120.11	NO	106.2
46	M8FOSA	INT STD	10.92	506.053 > 78.286	20239		10.283		na	102.8
47	d5-NEtFOSAA	INT STD	11.19	589.117 > 418.929	6986		11.749		na	117.5
48	NEtFOSAA	2991-50-6	11.20	583.989 > 418.927	191780		271.481	2.67	NO	108.6
49	PFDoA	307-55-1	11.55	612.989 > 568.967	1746859		259.753	14.72	NO	103.9
50	MPFDOA	INT STD	11.55	614.989 > 569.92	70079		10.824		na	108.2
51	PFTrDA	72629-94-8	11.96	663.053 > 618.969	1534590		243.000	11.43	NO	97.2
52	PFTA	376-06-7	12.32	713.053 > 668.976	1365872		264.140	9.21	NO	105.7
53	M2PFTEDA	INT STD	12.32	715.053 > 669.945	59457		10.869		na	108.7
54	M3HFPO-DA	INT STD	7.31	331.989 > 286.995	66211		313.838		na	156.9
55	HFPO-DA	13252-13-6	7.31	284.819 > 169.094	451537		5175.993	2.68	YES	103.5
56	ADONA	958445-44-8	8.38	376.926 > 251.005	2930640		253.744		na	107.3
57	PFHxDA		12.74	813.053 > 769.005	1194794		252.032		na	100.8
58	PFODA		12.96	912.989 > 869.032	1049977		252.147		na	100.9
59	M2PFHxDA		12.74	815.372 > 770.158	17299		10.380		na	103.8
60	PFDoS		11.95	698.649 > 79.853	84511		254.874	2.03	YES	101.9
61	10:2FTS		11.56	626.862 > 606.896	66895		ND		na	
62	9CL-PF3ONS		10.31	530.862 > 350.843	1130336		244.614		na	105.0
63	11CL-PFOUdS		11.35	630.862 > 450.854	1009548		248.032		na	105.3
64	NMeFOSA		11.54	511.804 > 168.906	189638		255.229	1.54	NO	102.1
65	d3-NMeFOSA		11.53	514.84 > 168.917	7946		11.656		na	116.6
66	NEtFOSA		11.84	525.84 > 168.92	233333		274.195	5.36	NO	109.7
67	d5-NEtFOSA		11.82	530.904 > 168.919	9621		10.897		na	109.0
68	NMeFOSE		11.54	615.862 > 58.9	316124		260.610		na	104.2
69	d7-NMeFOSE		11.52	622.84 > 58.964	4795		10.057		na	100.6
70	NEtFOSE		11.82	629.862 > 58.899	358068		245.150		na	98.1
71	d9-NEtFOSE		11.81	638.734 > 58.964	2810		11.948		na	119.5

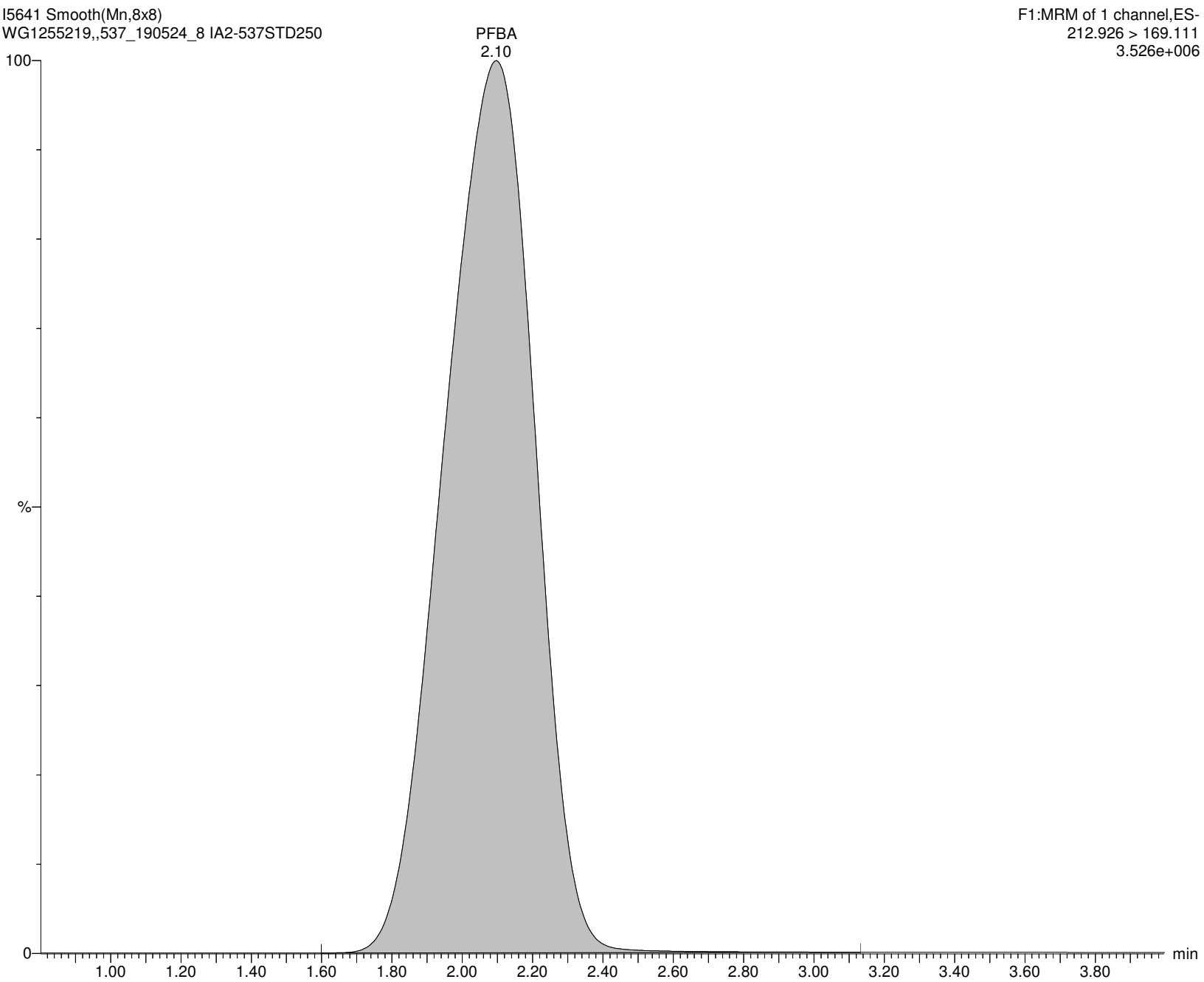
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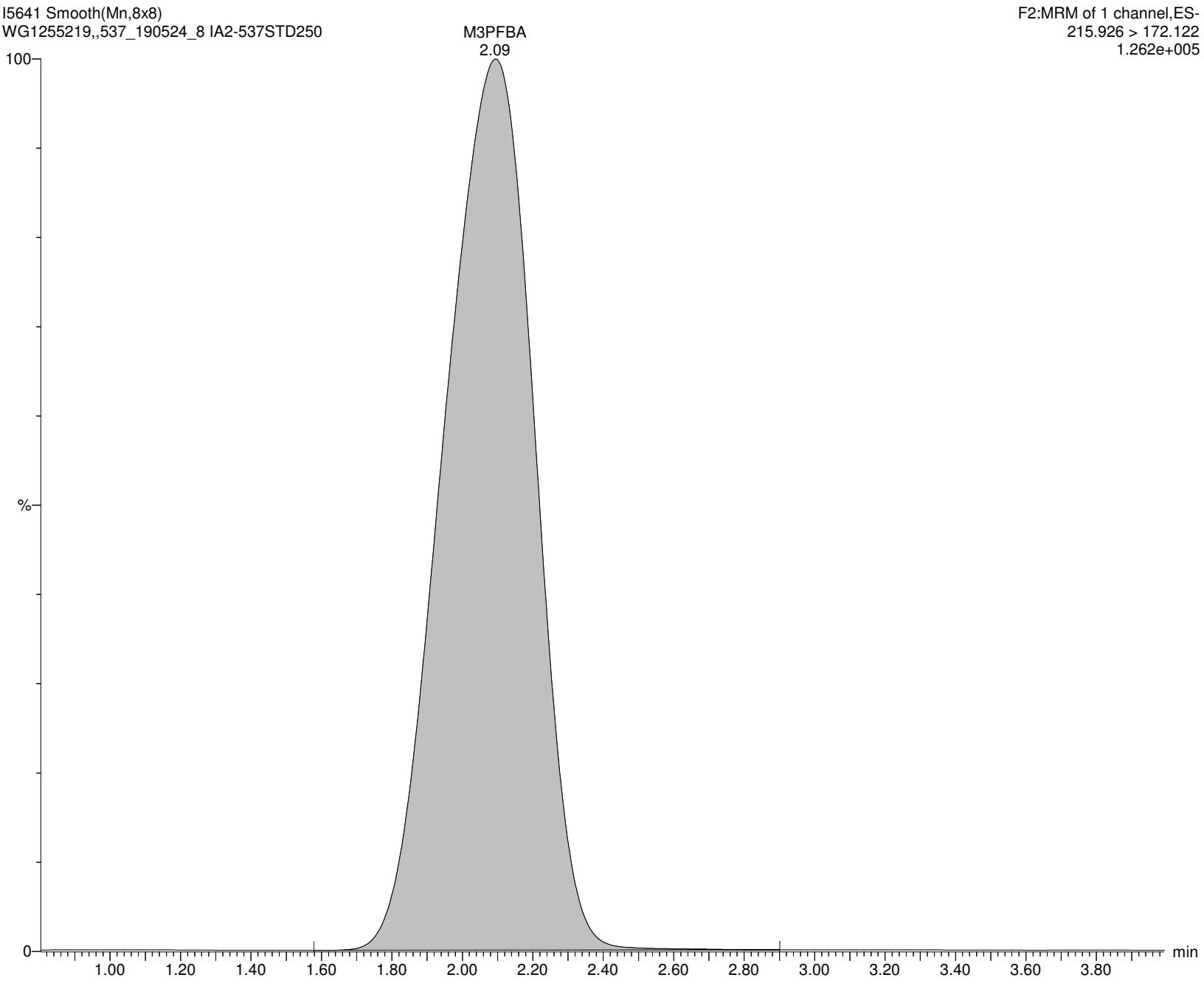


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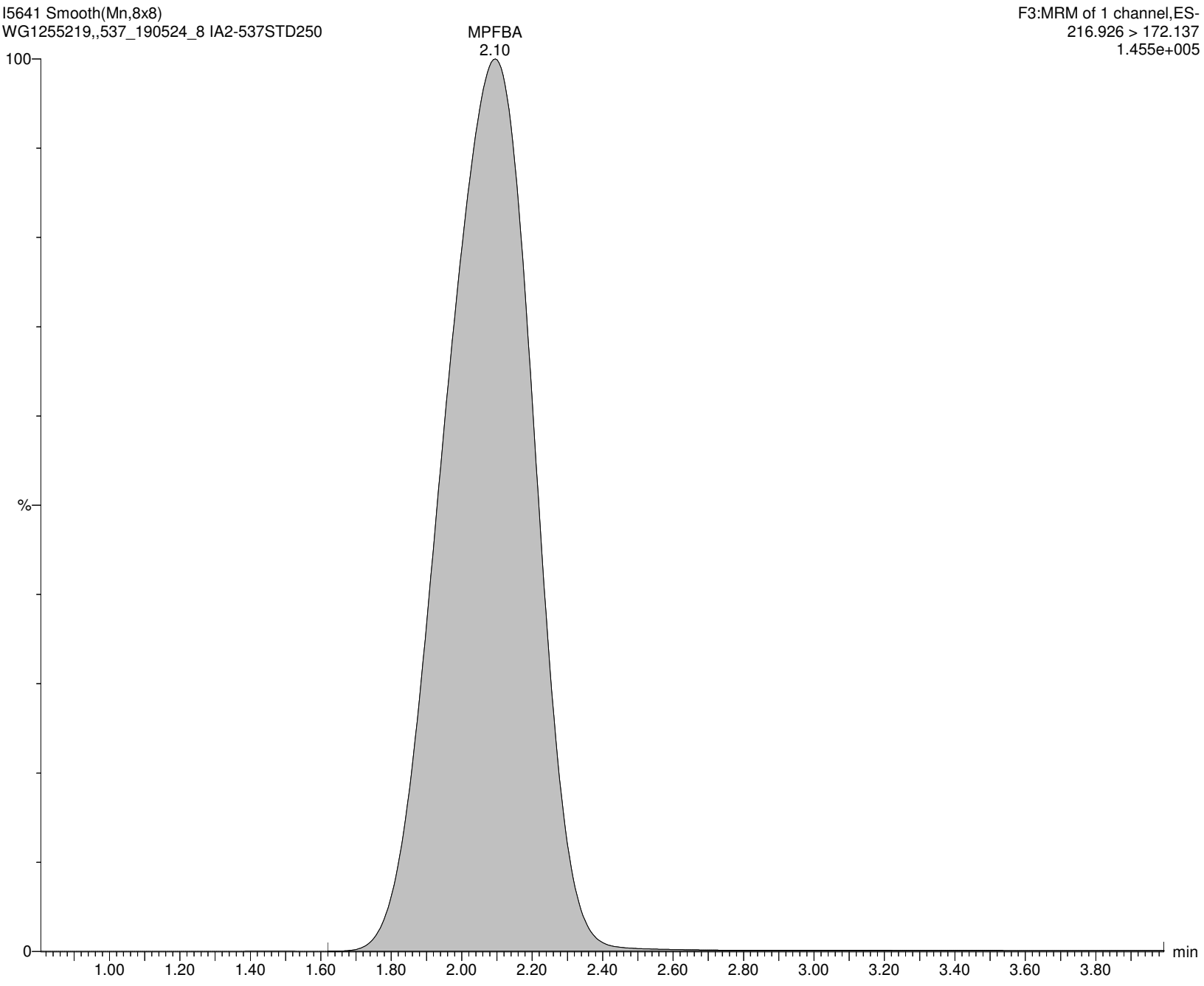


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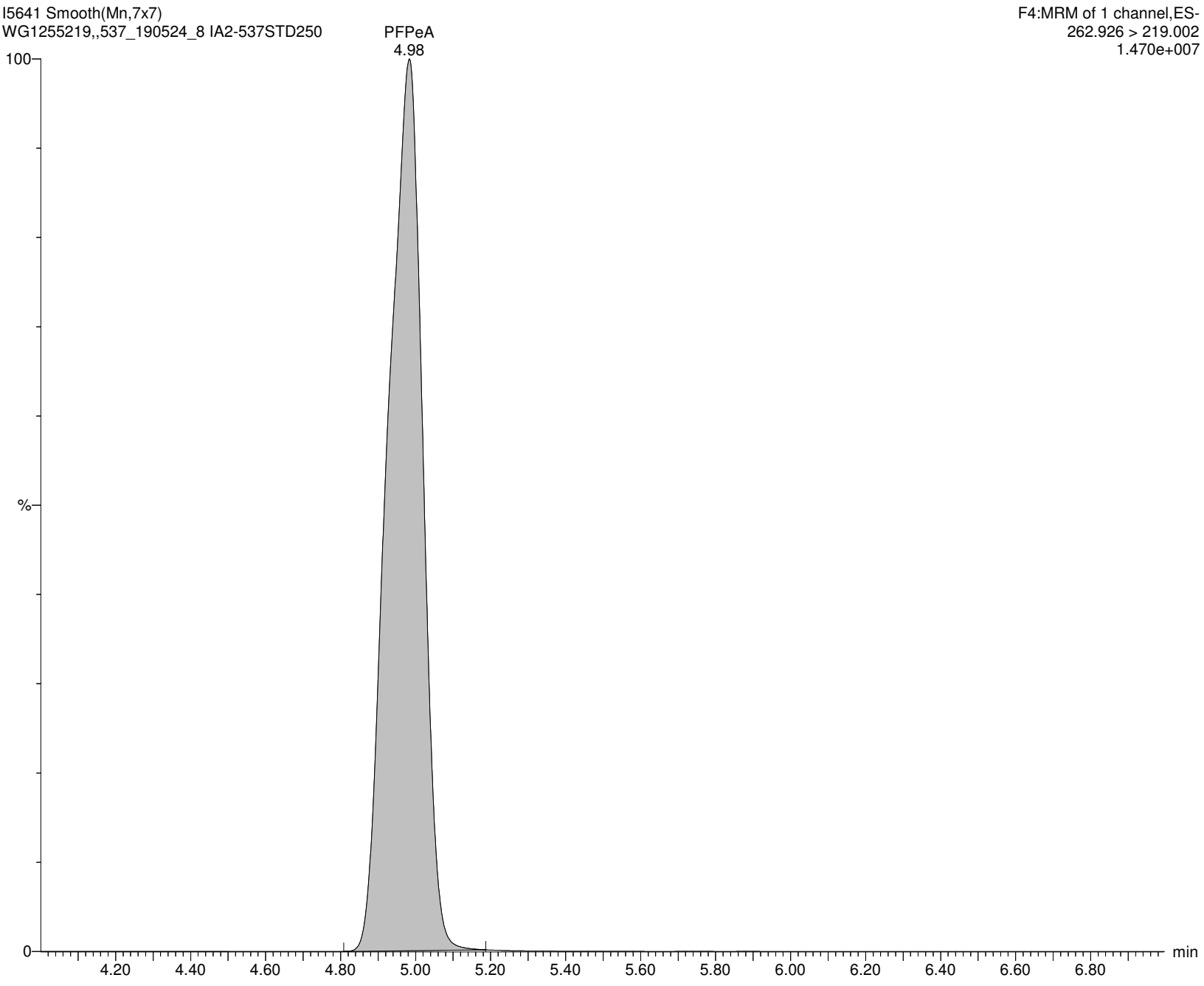


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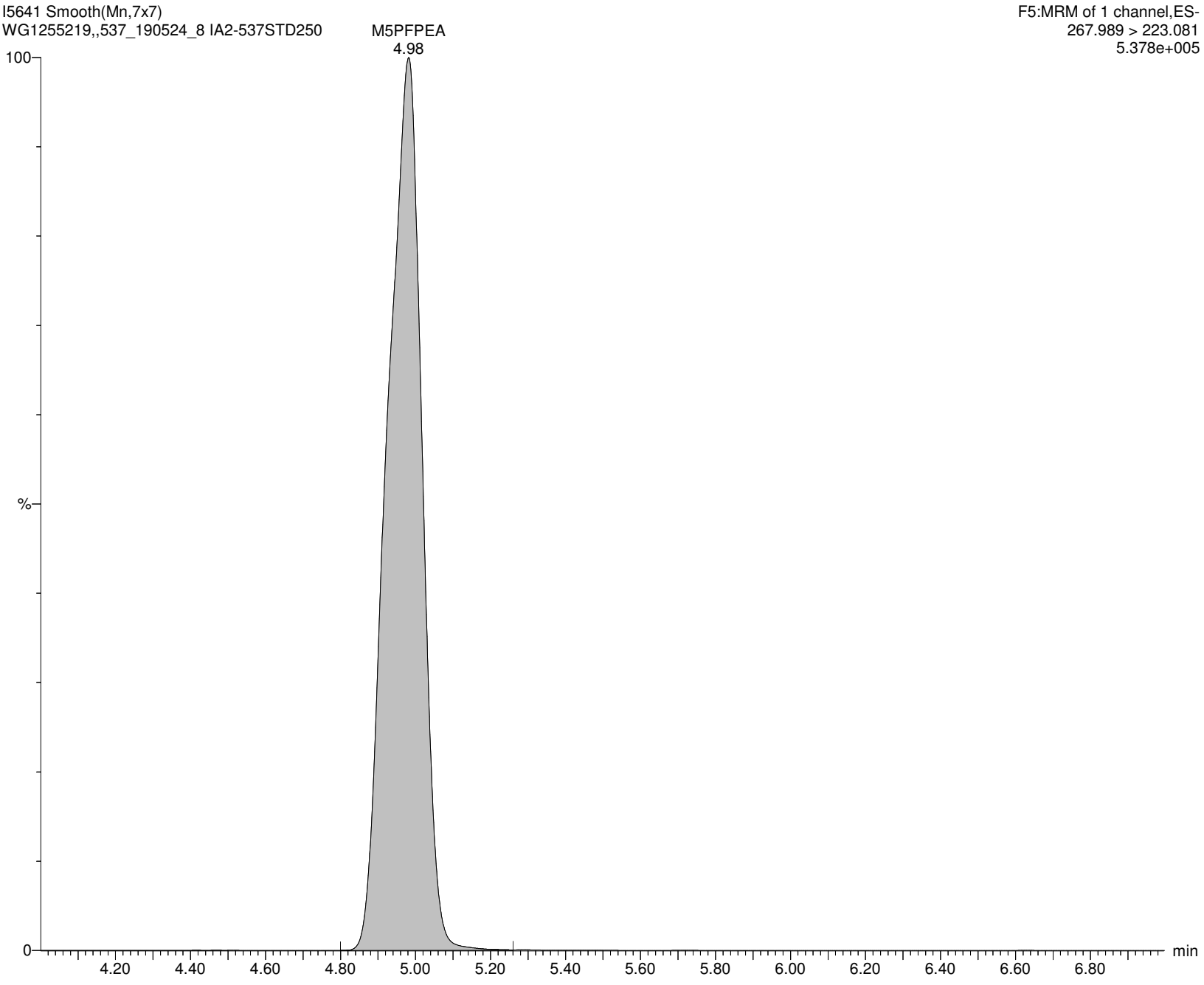


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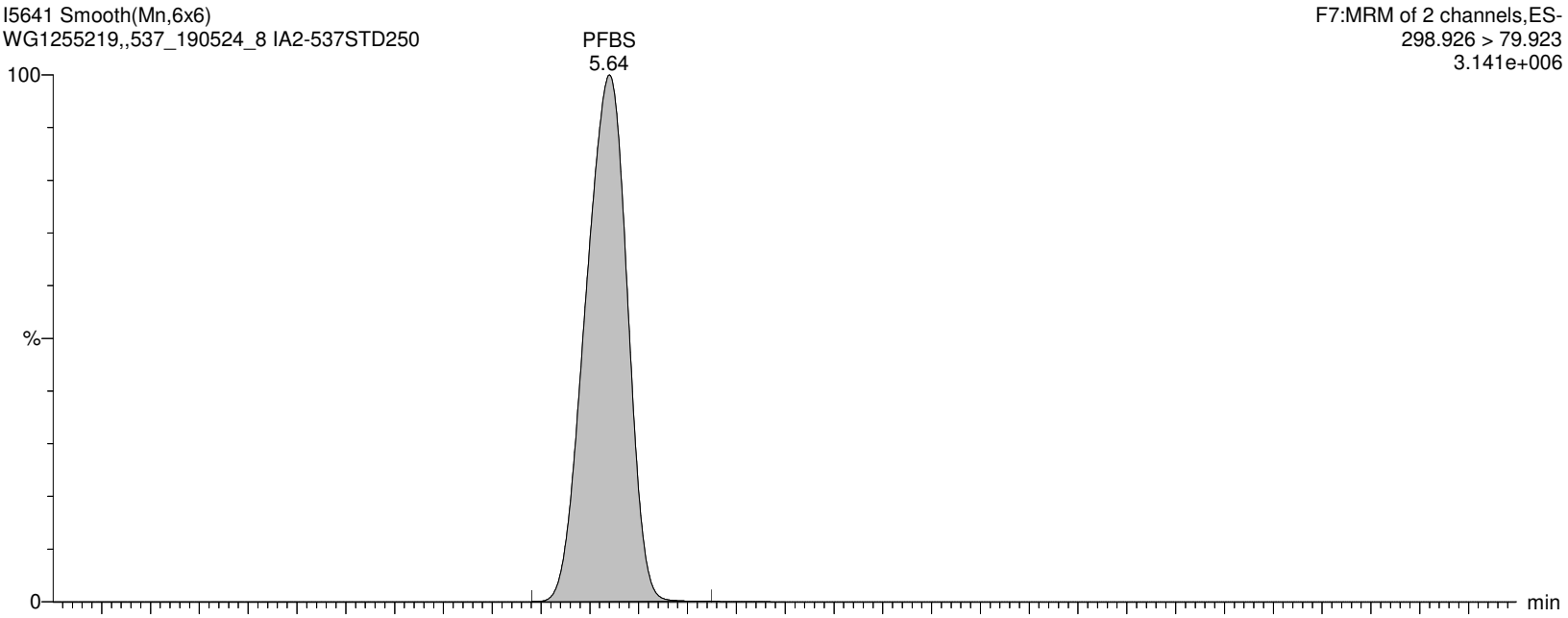


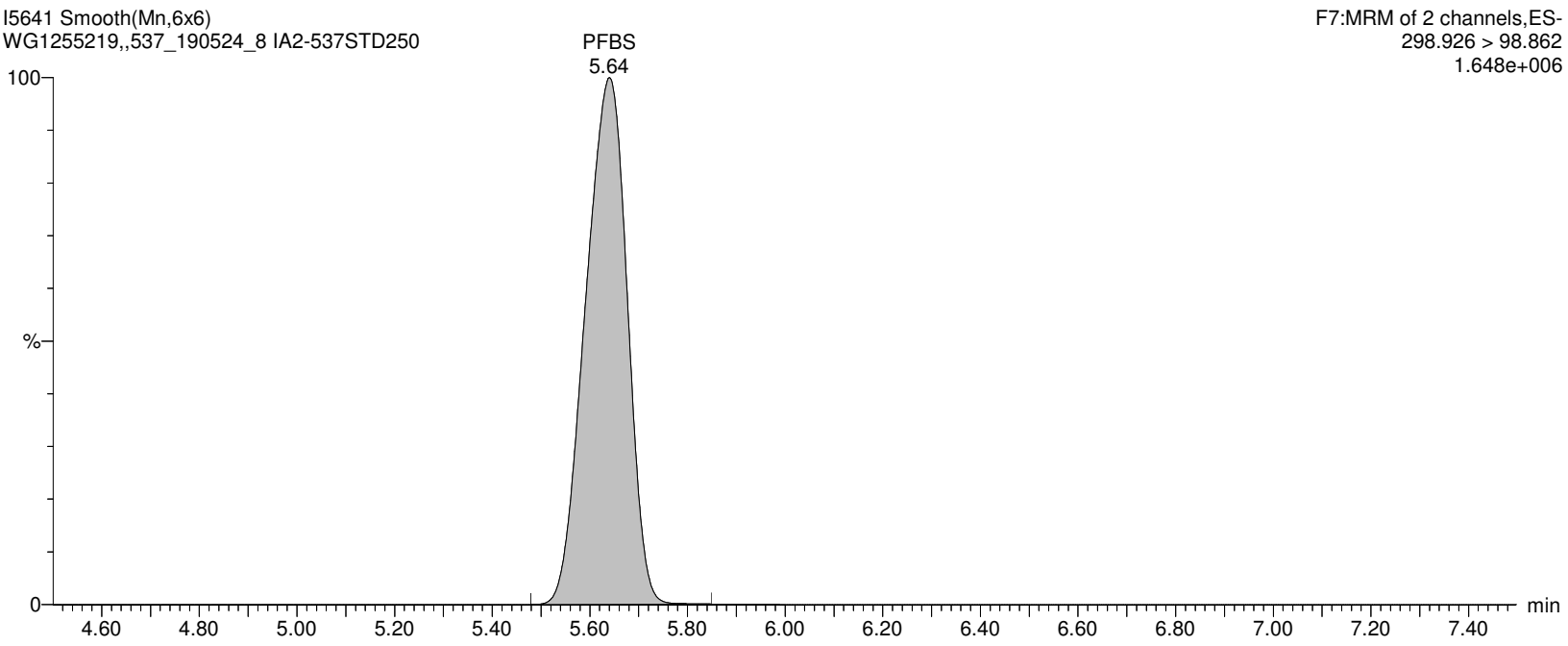
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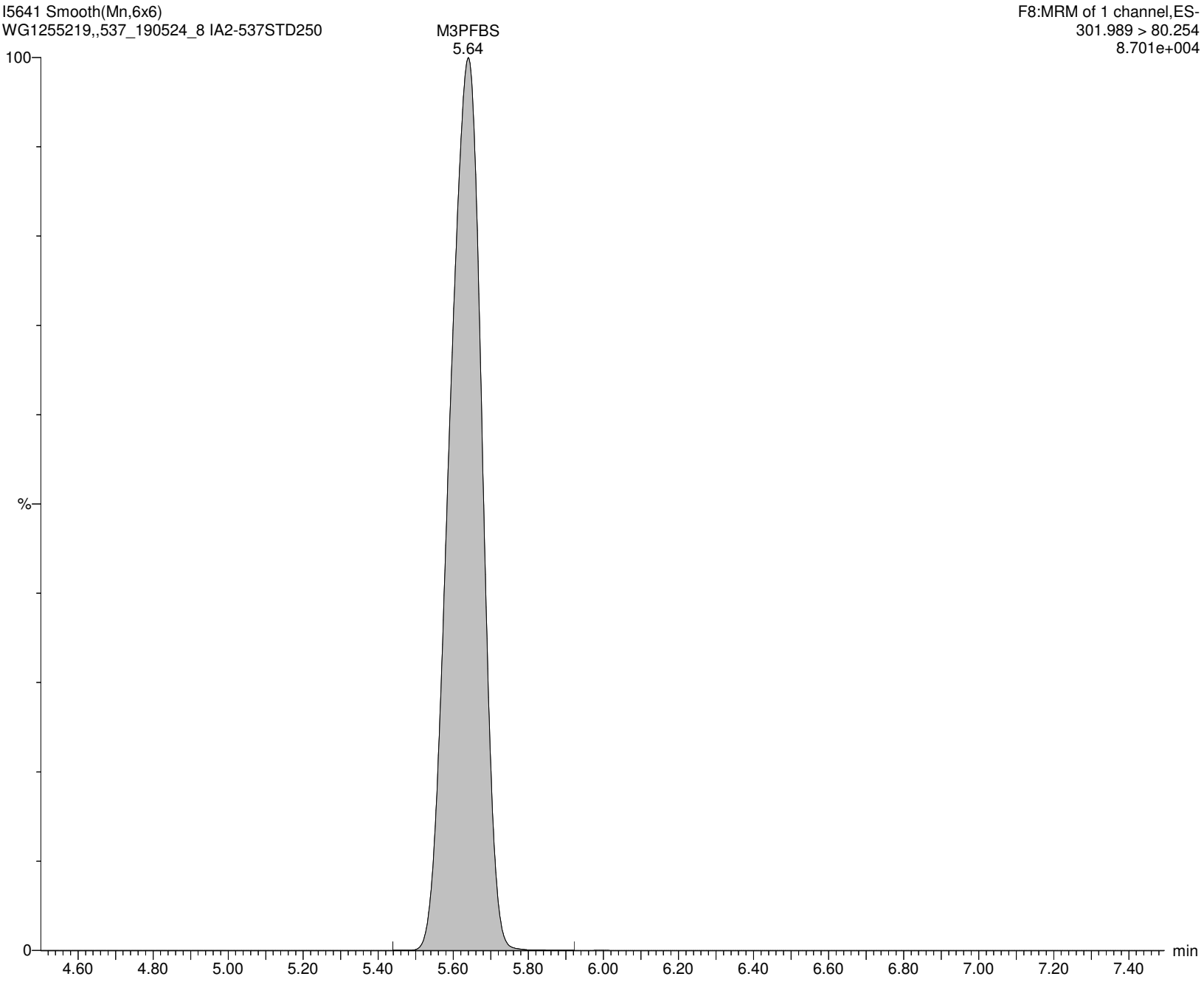


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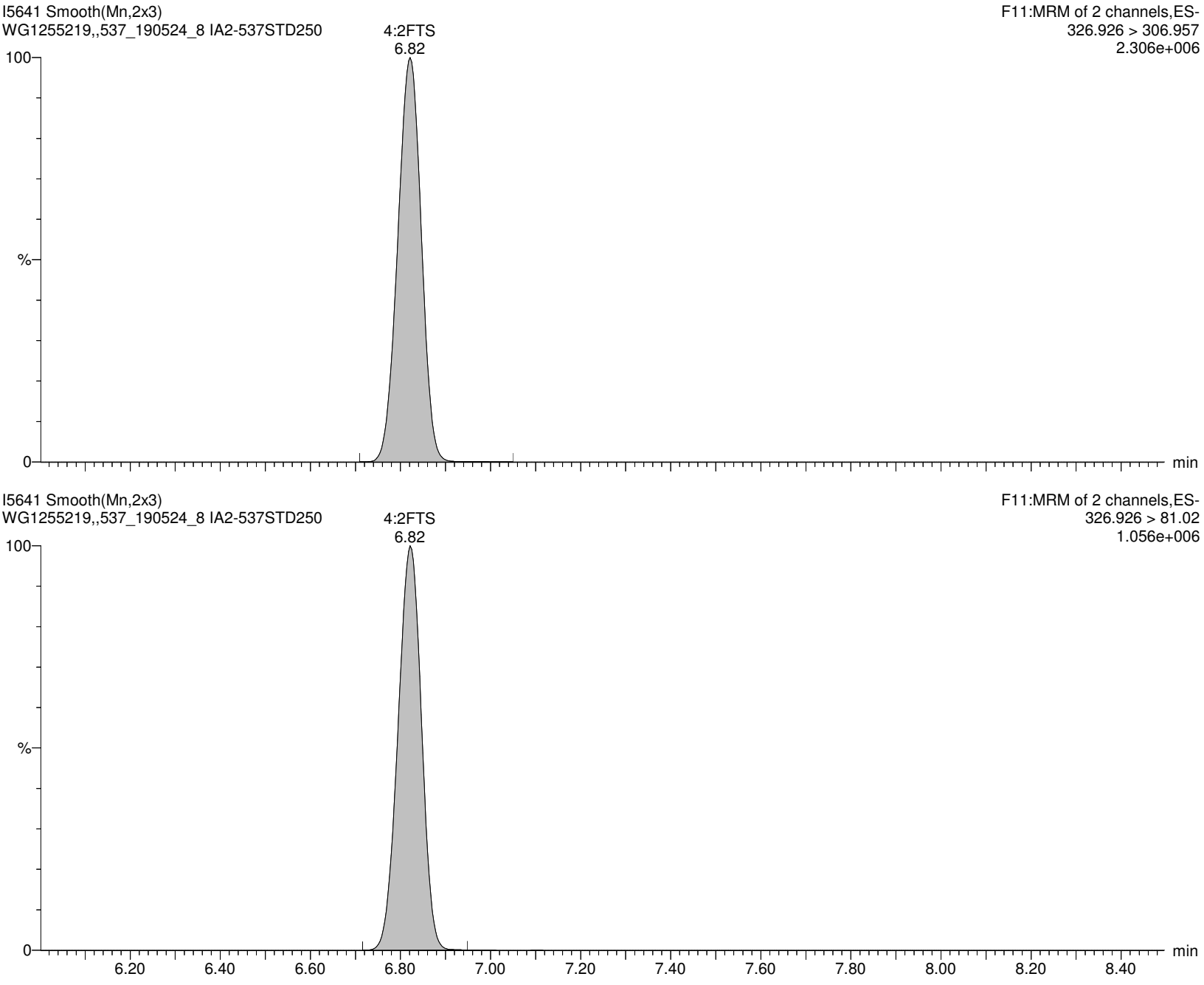


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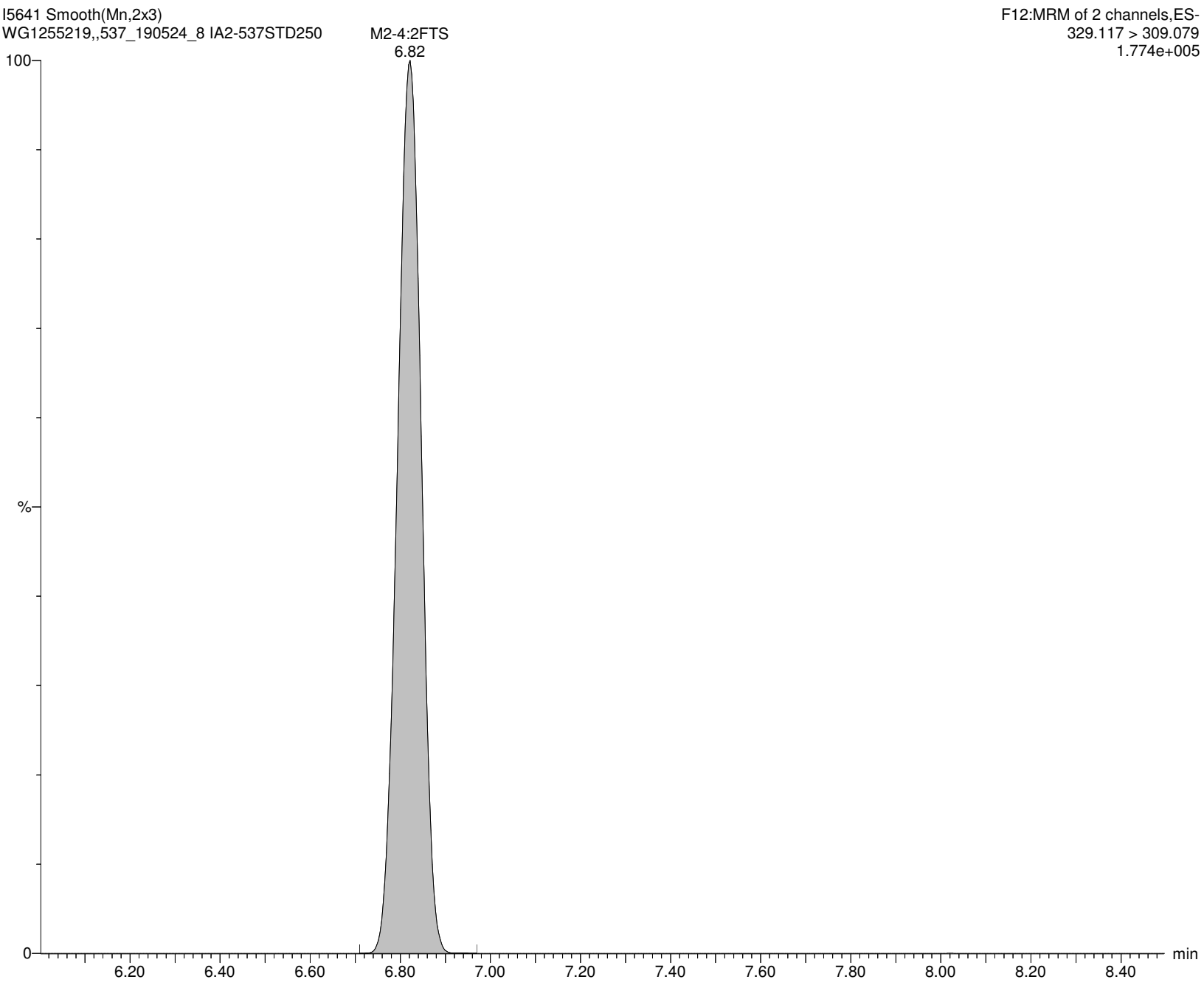


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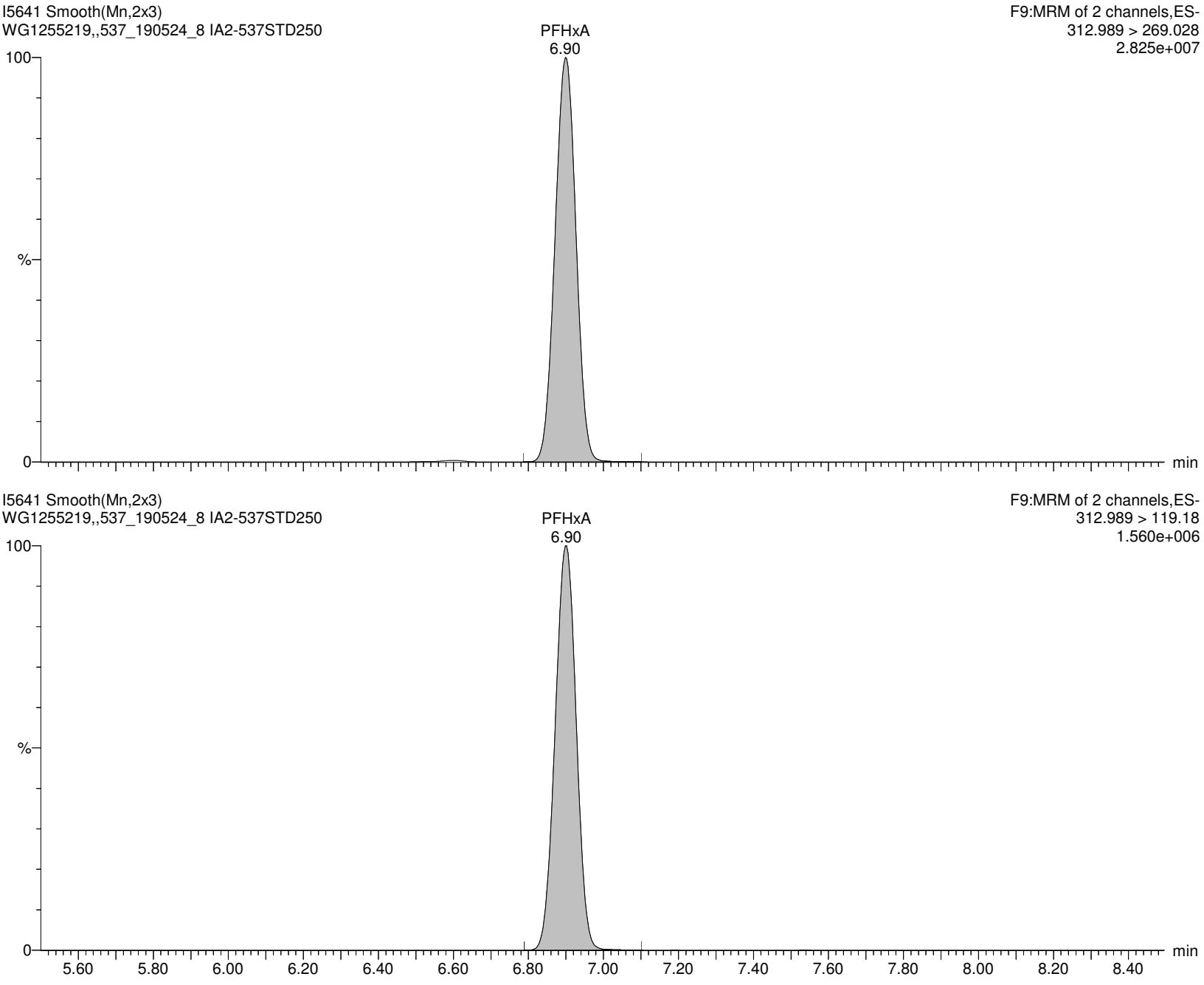


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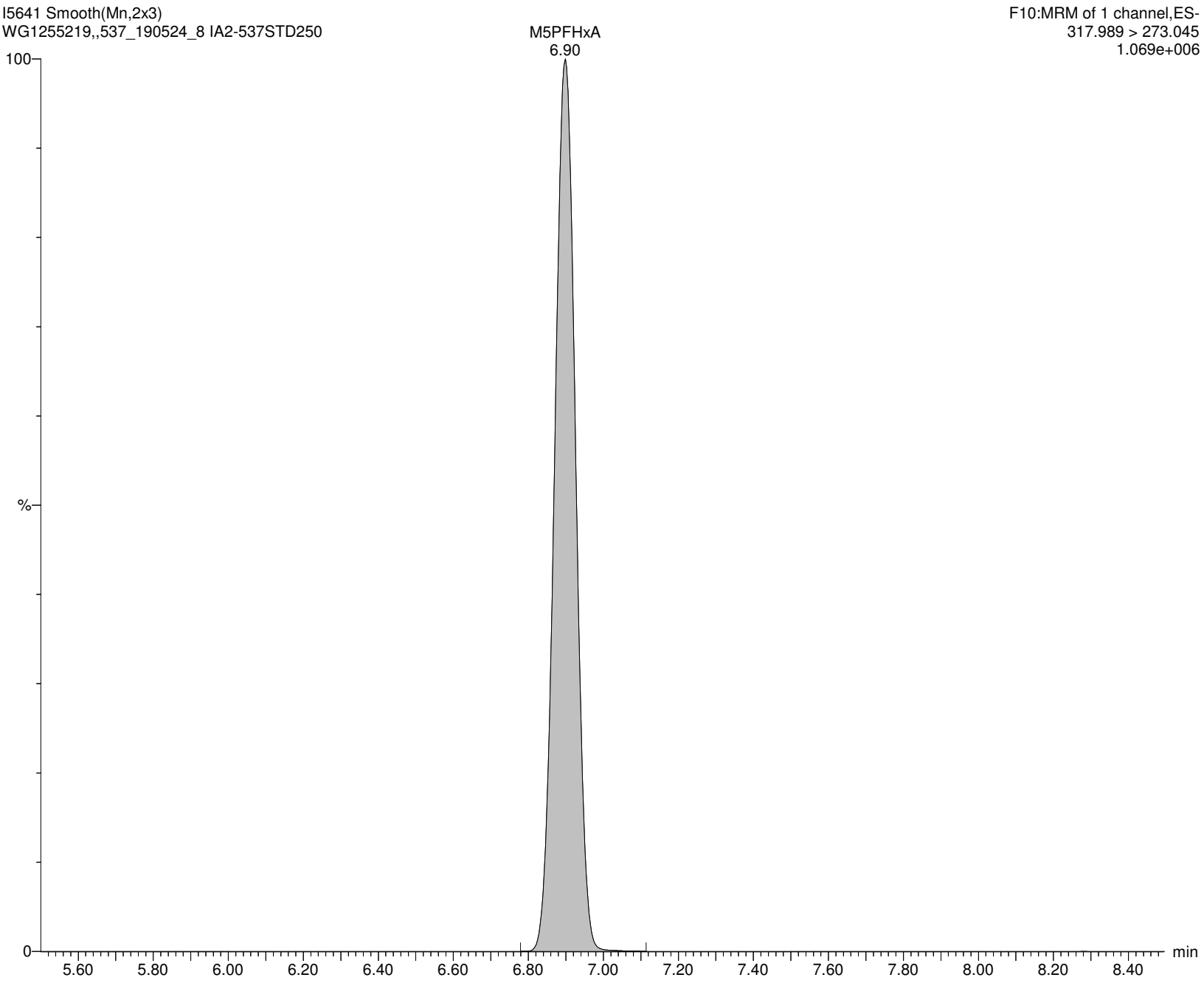


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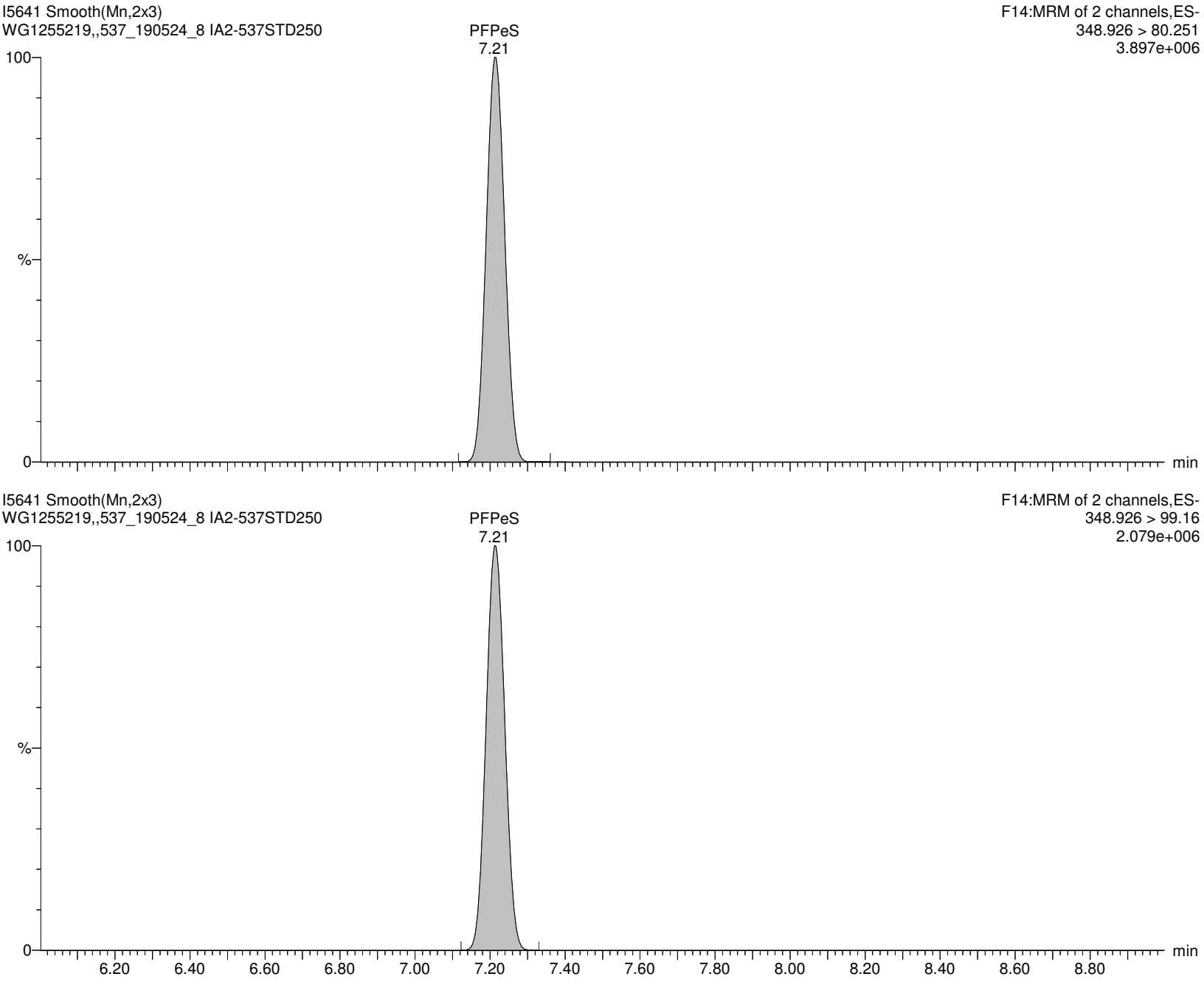


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Name: I5641
ID: IA2-537STD250
Date: 01-Jul-2019
Time: 19:53:14
Description: WG1255219,,537_190524_8
User: LCMS02:JW
Vial: 1:B,1
Instrument: XEVO-TQSmicro#QEB0050
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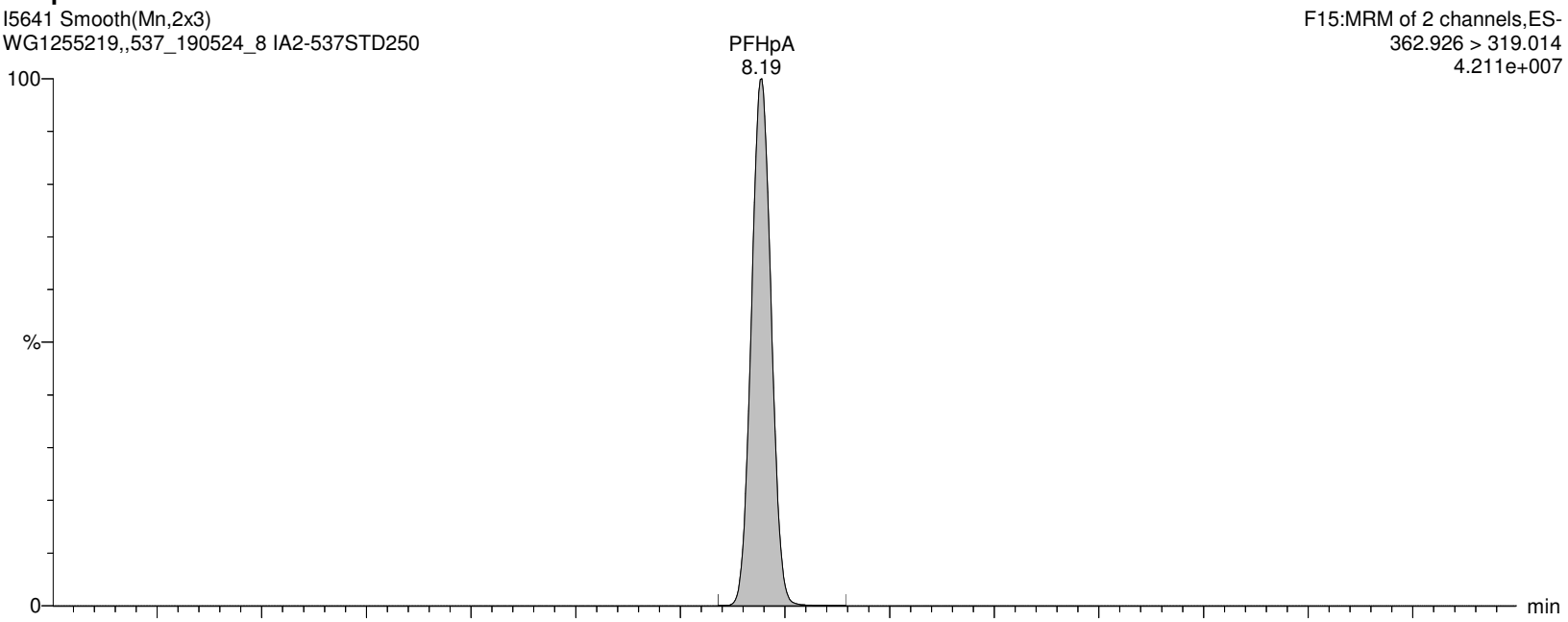


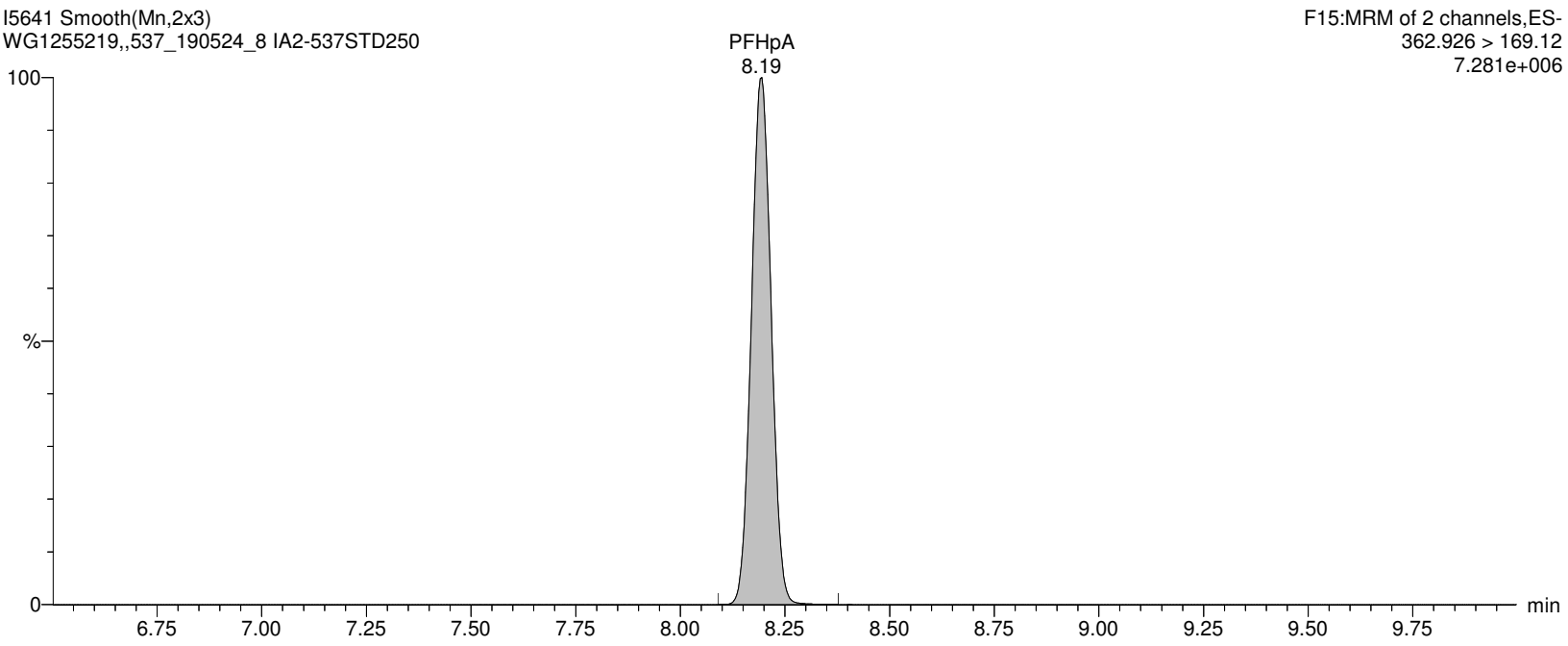
all concentration units in (ng/mL)

Alpha Analytical Inc.
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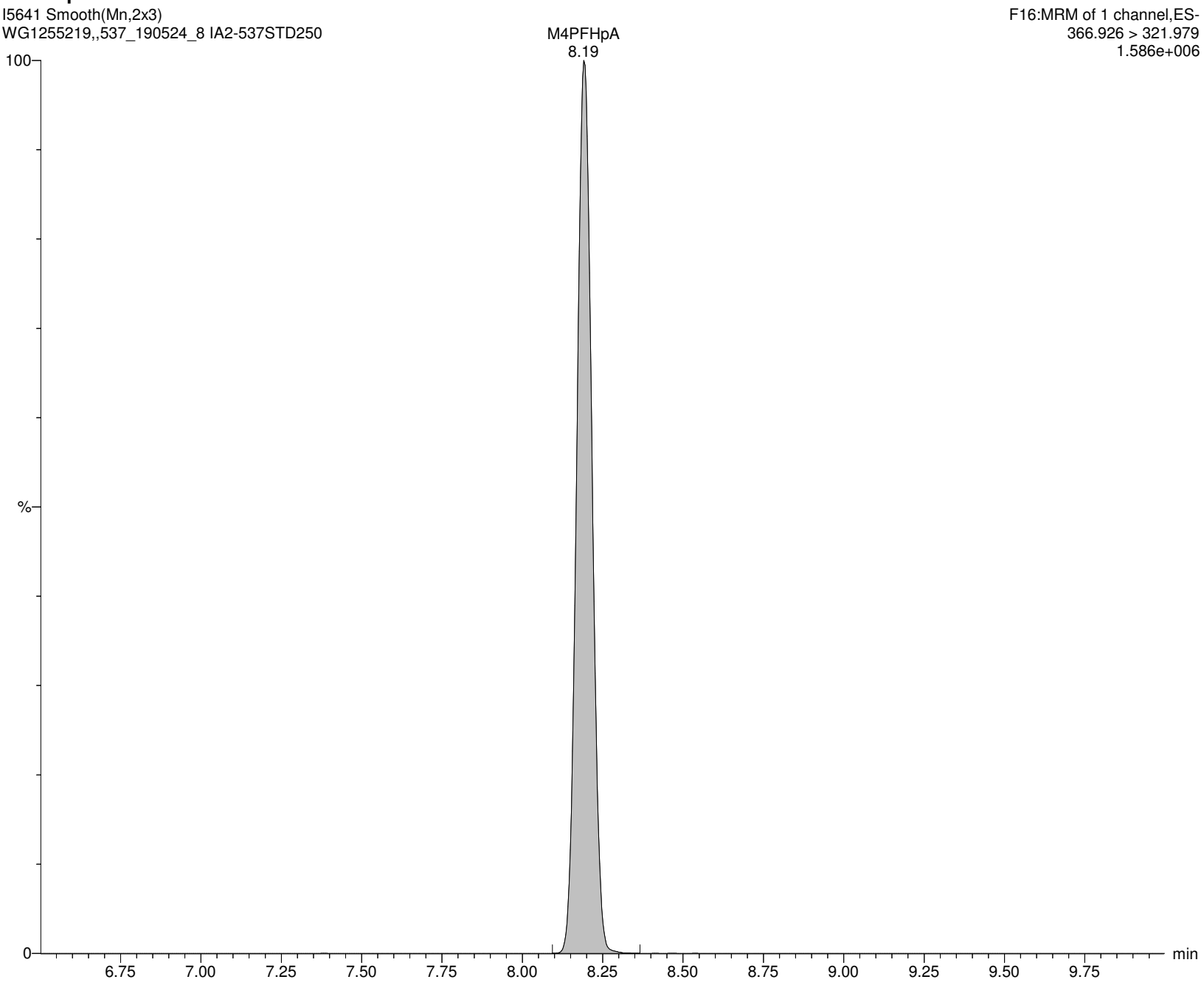


all concentration units in (ng/mL)

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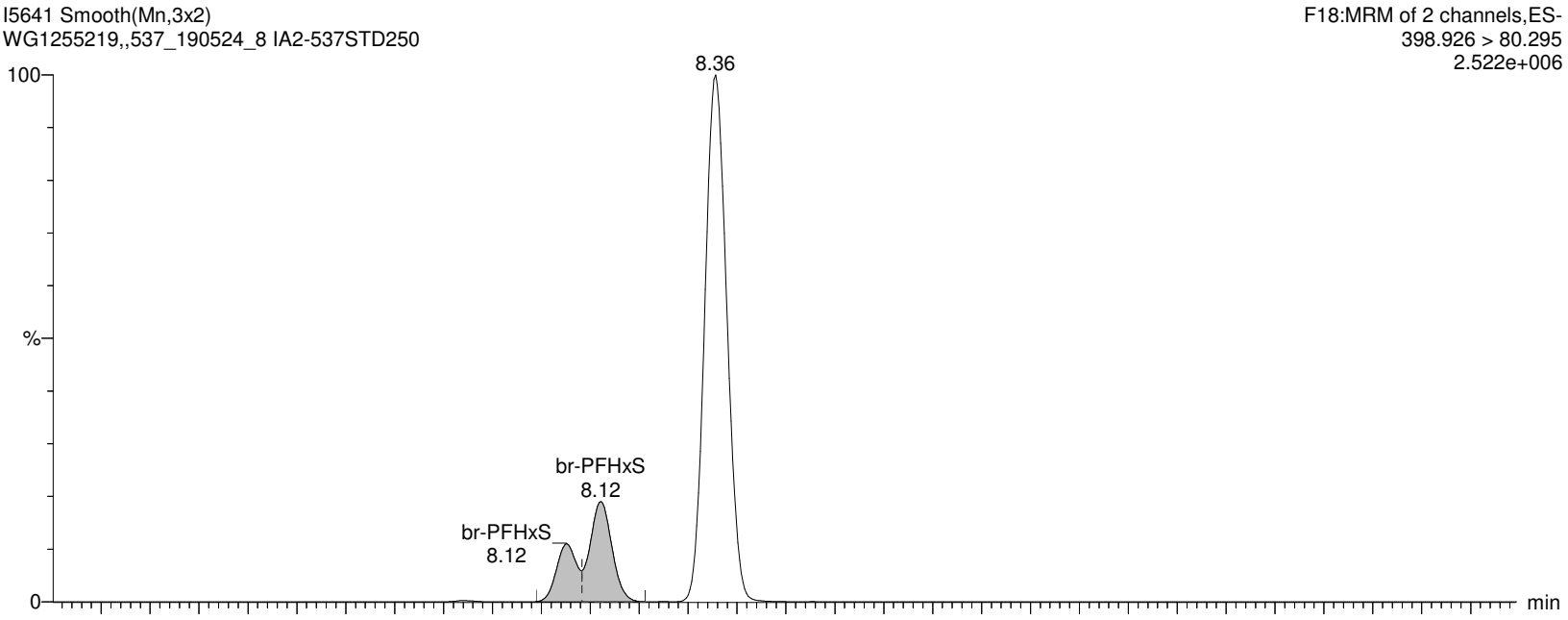


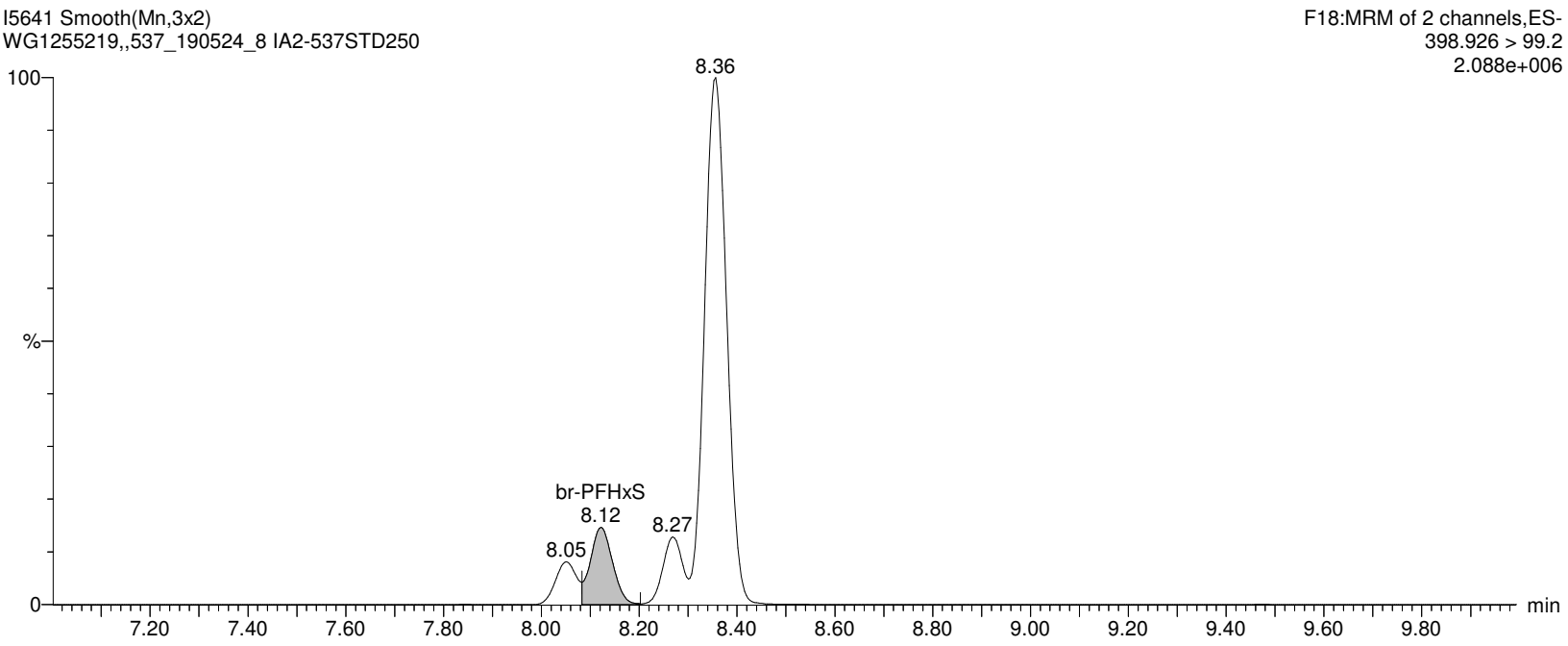
all concentration units in (ng/mL)

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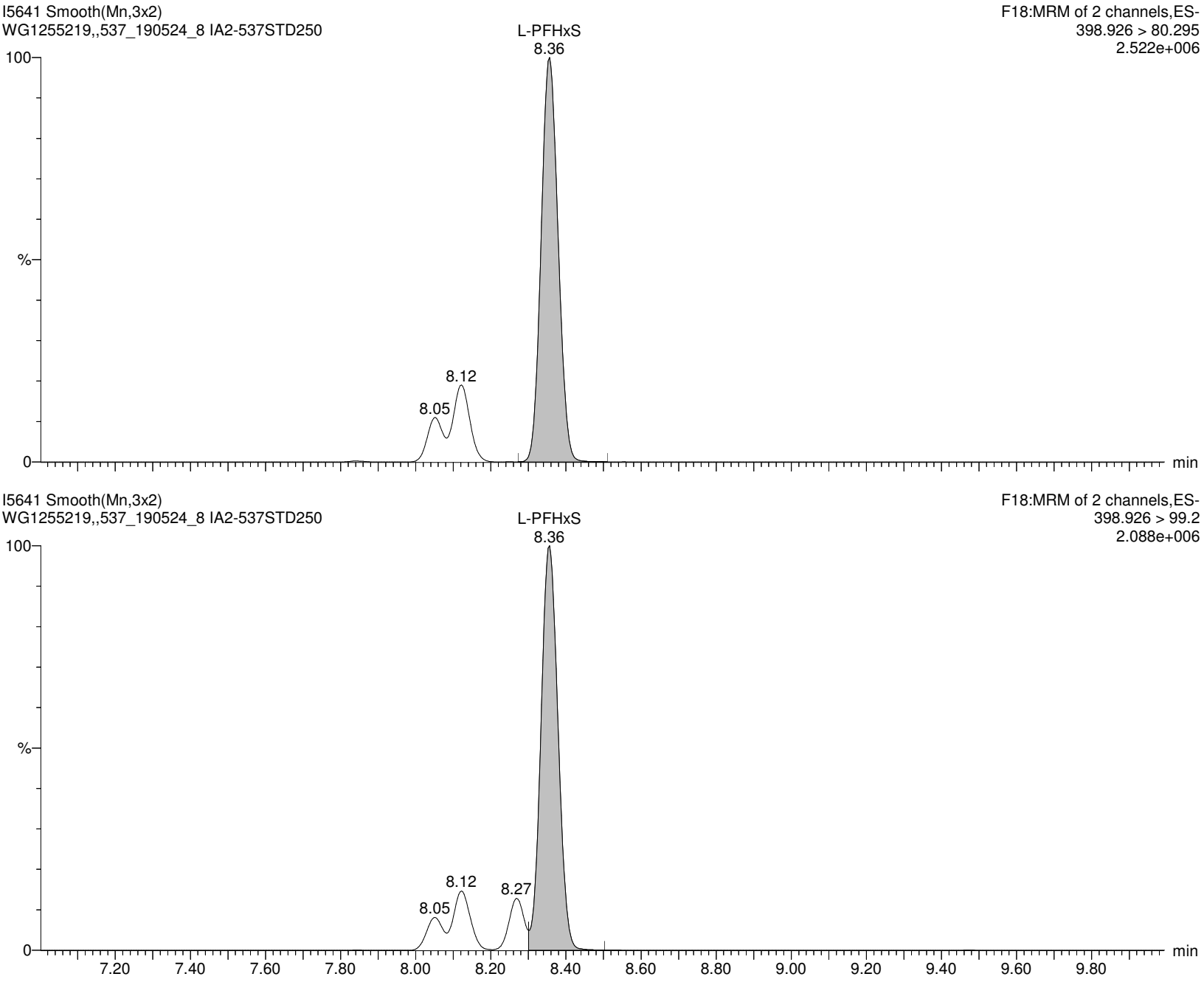


all concentration units in (ng/mL)

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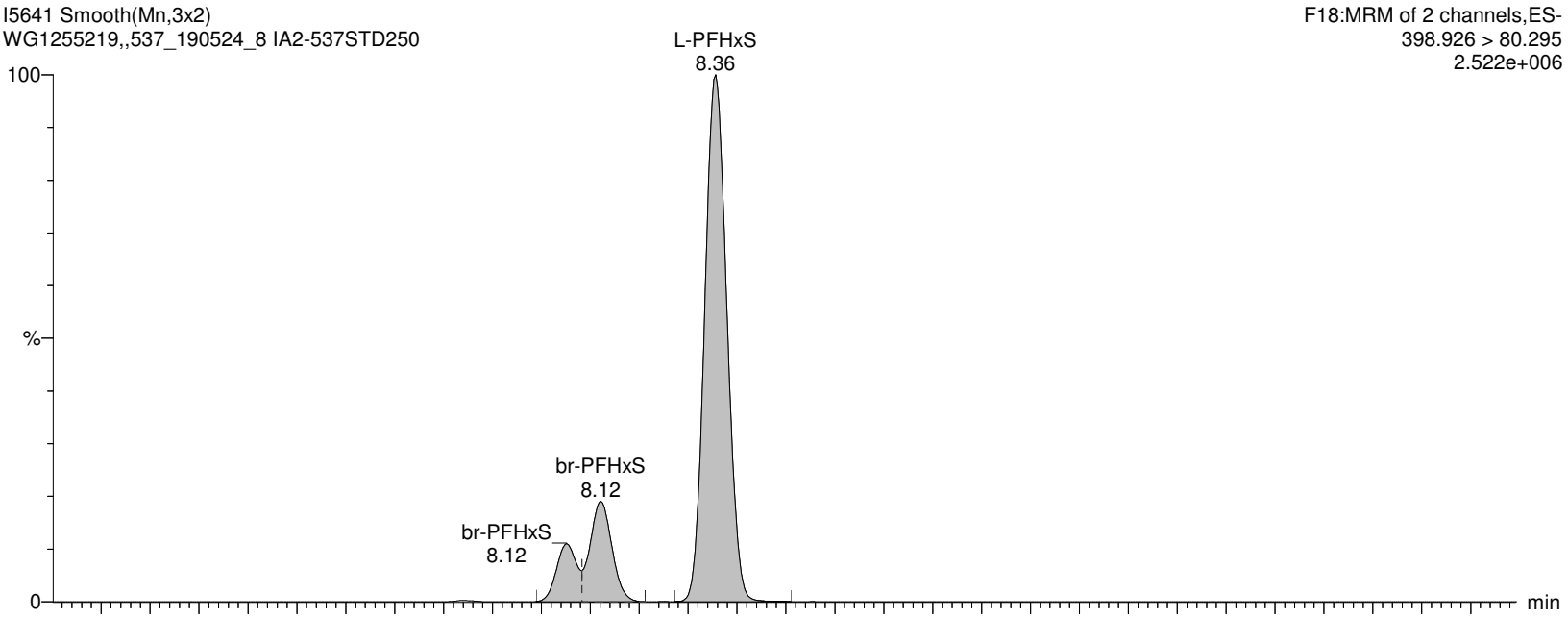


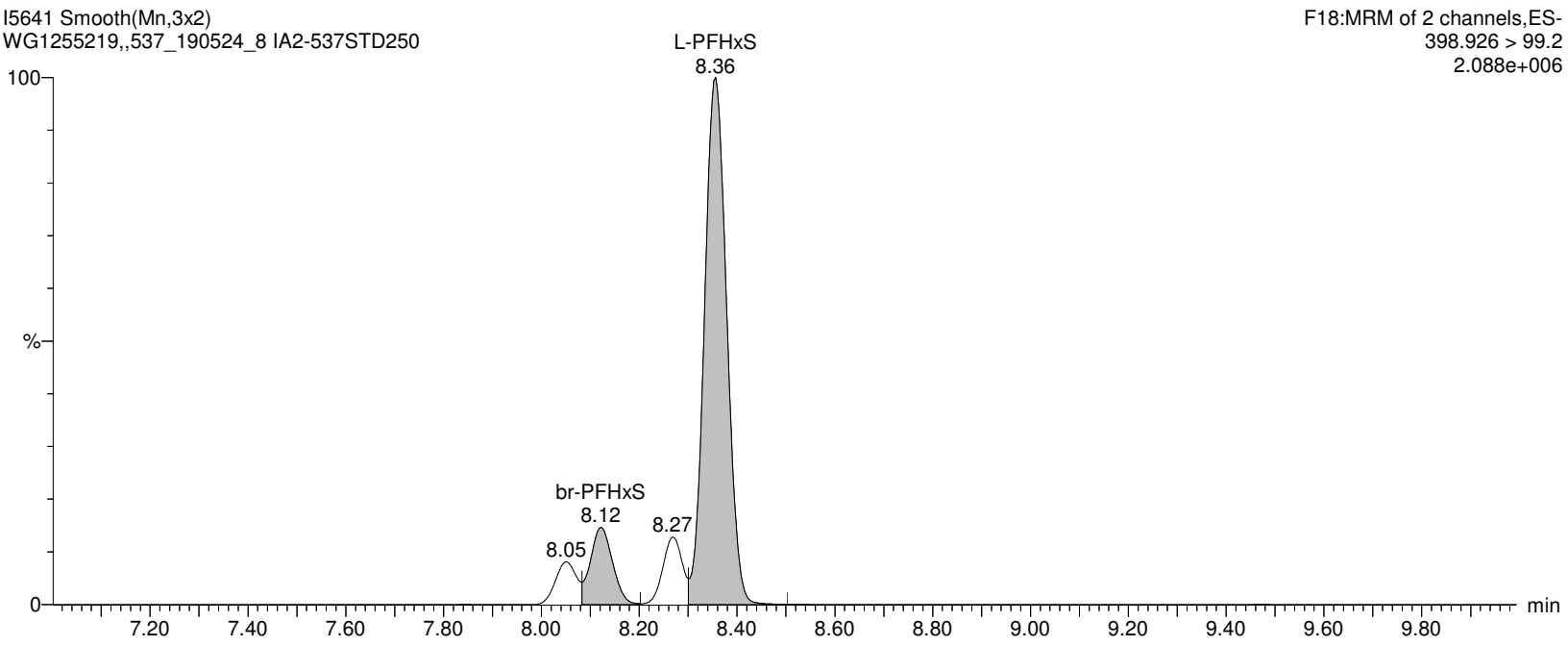
all concentration units in (ng/mL)

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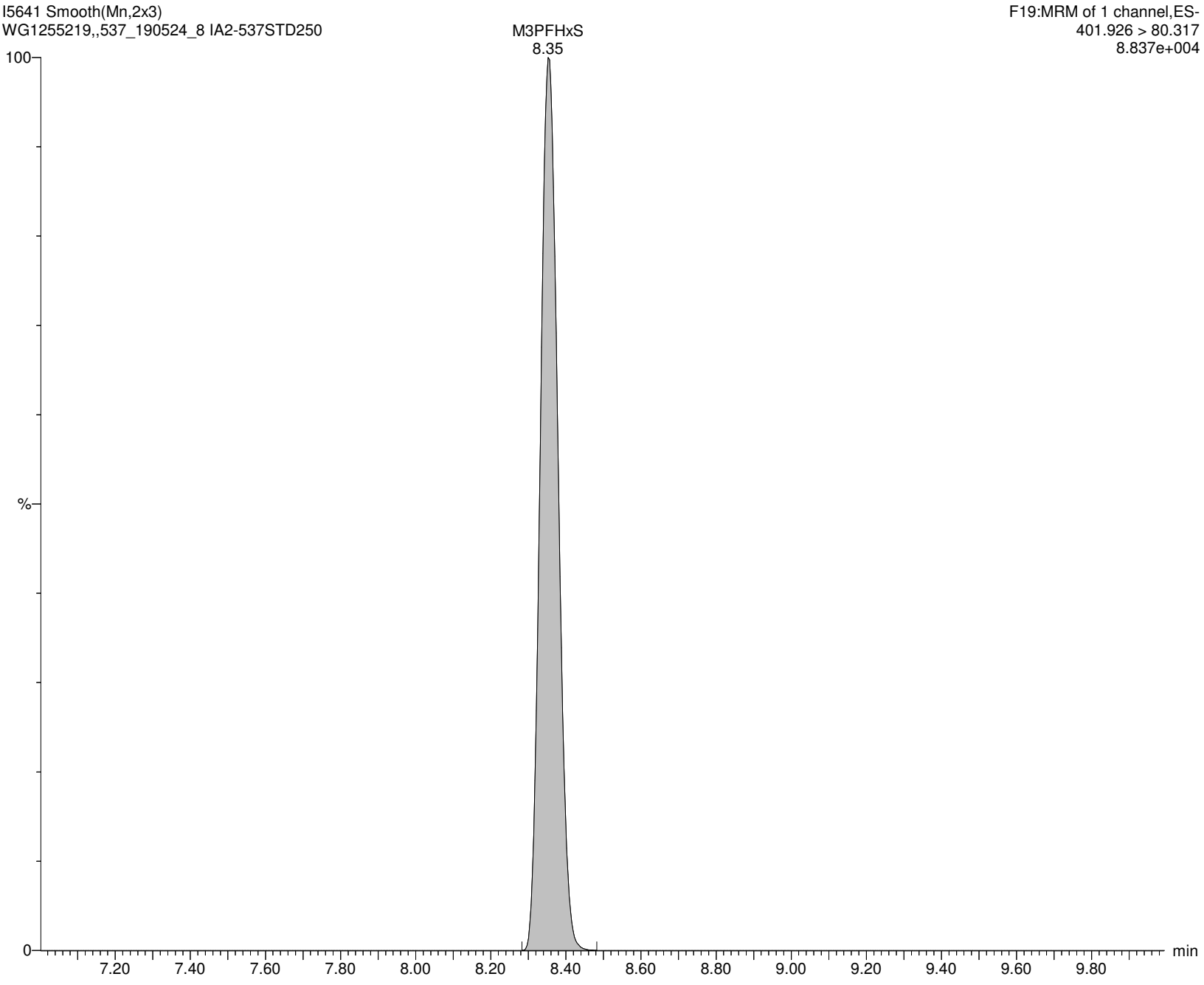


all concentration units in (ng/mL)

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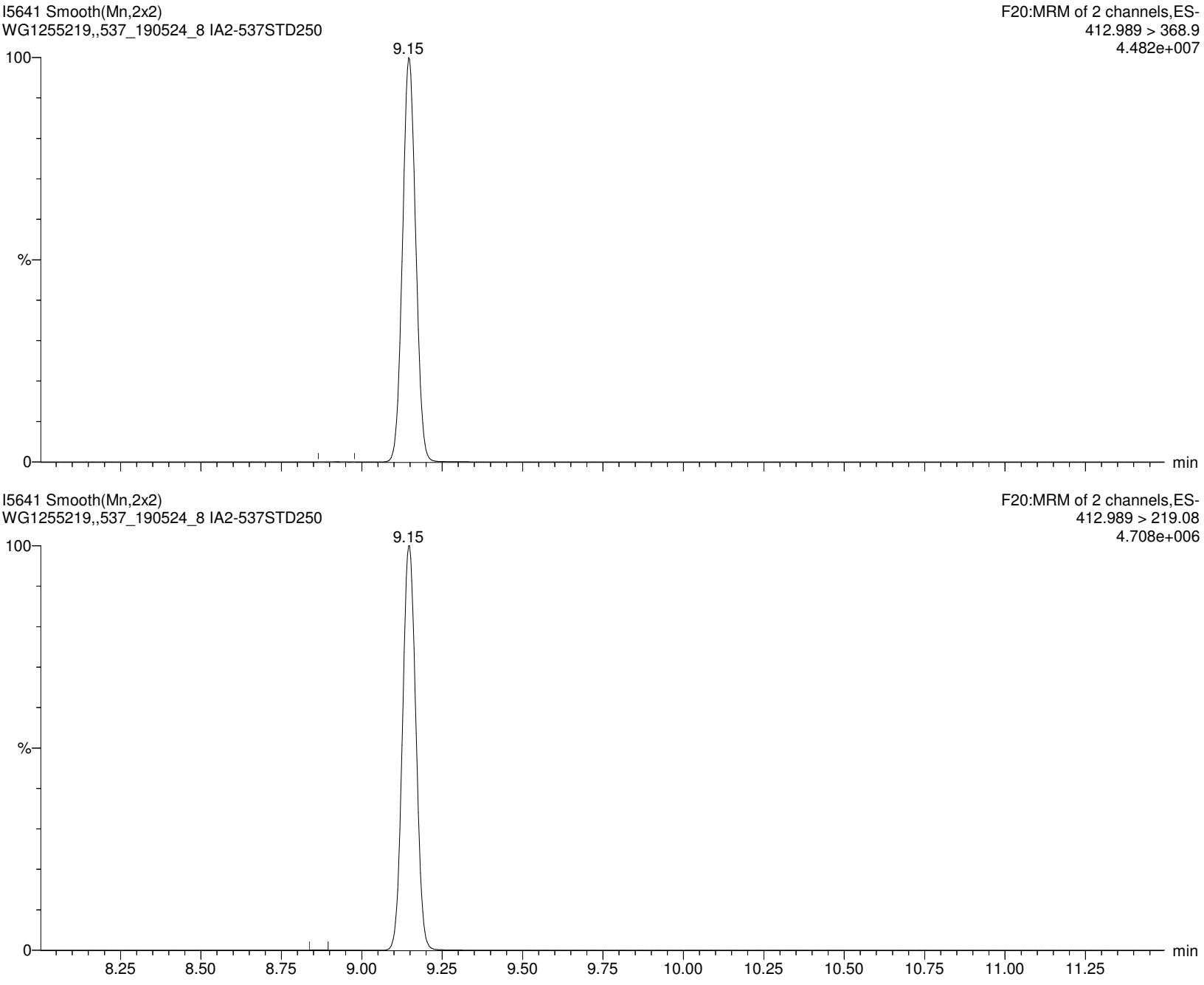


all concentration units in (ng/mL)

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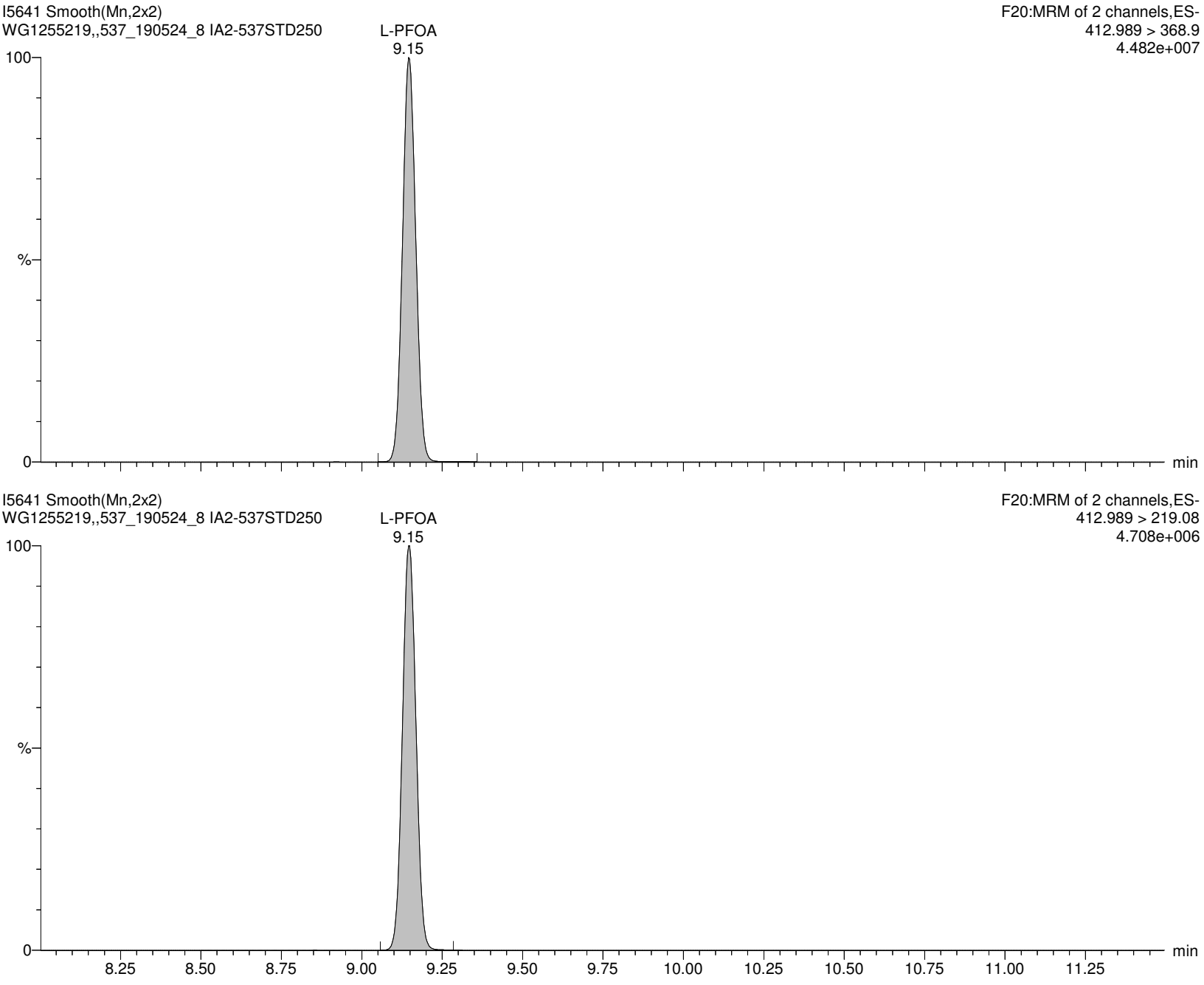


all concentration units in (ng/mL)

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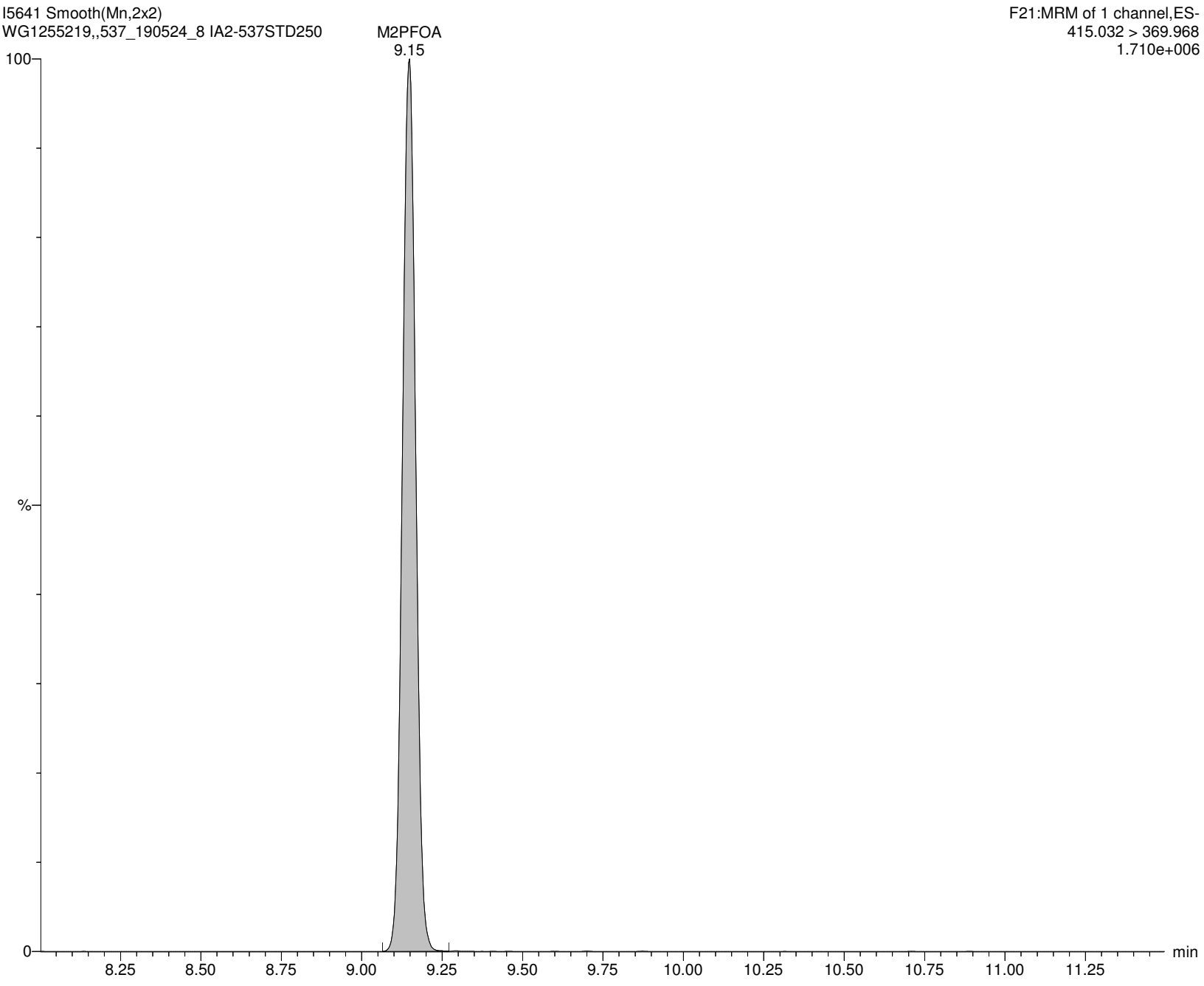


all concentration units in (ng/mL)

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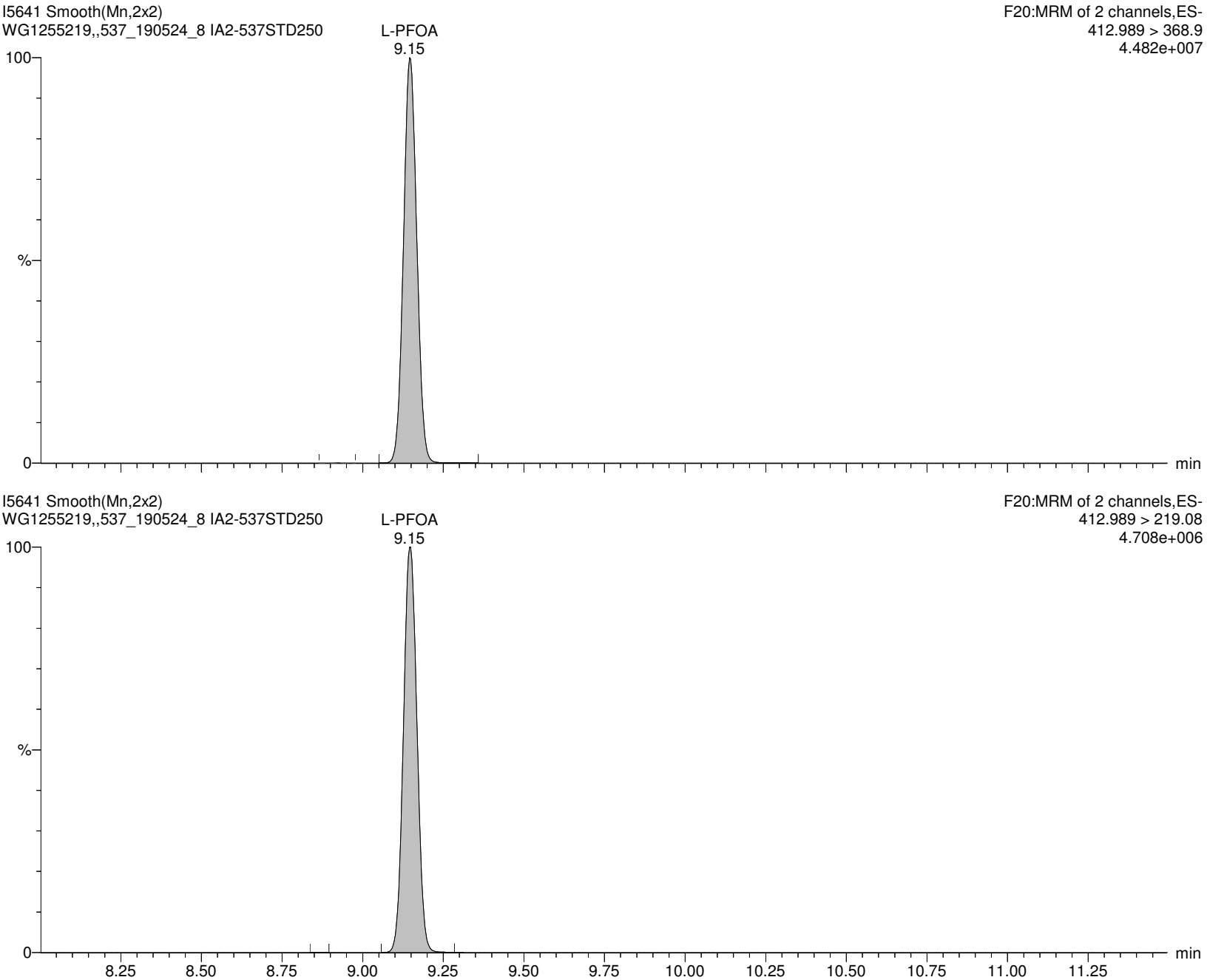


all concentration units in (ng/mL)

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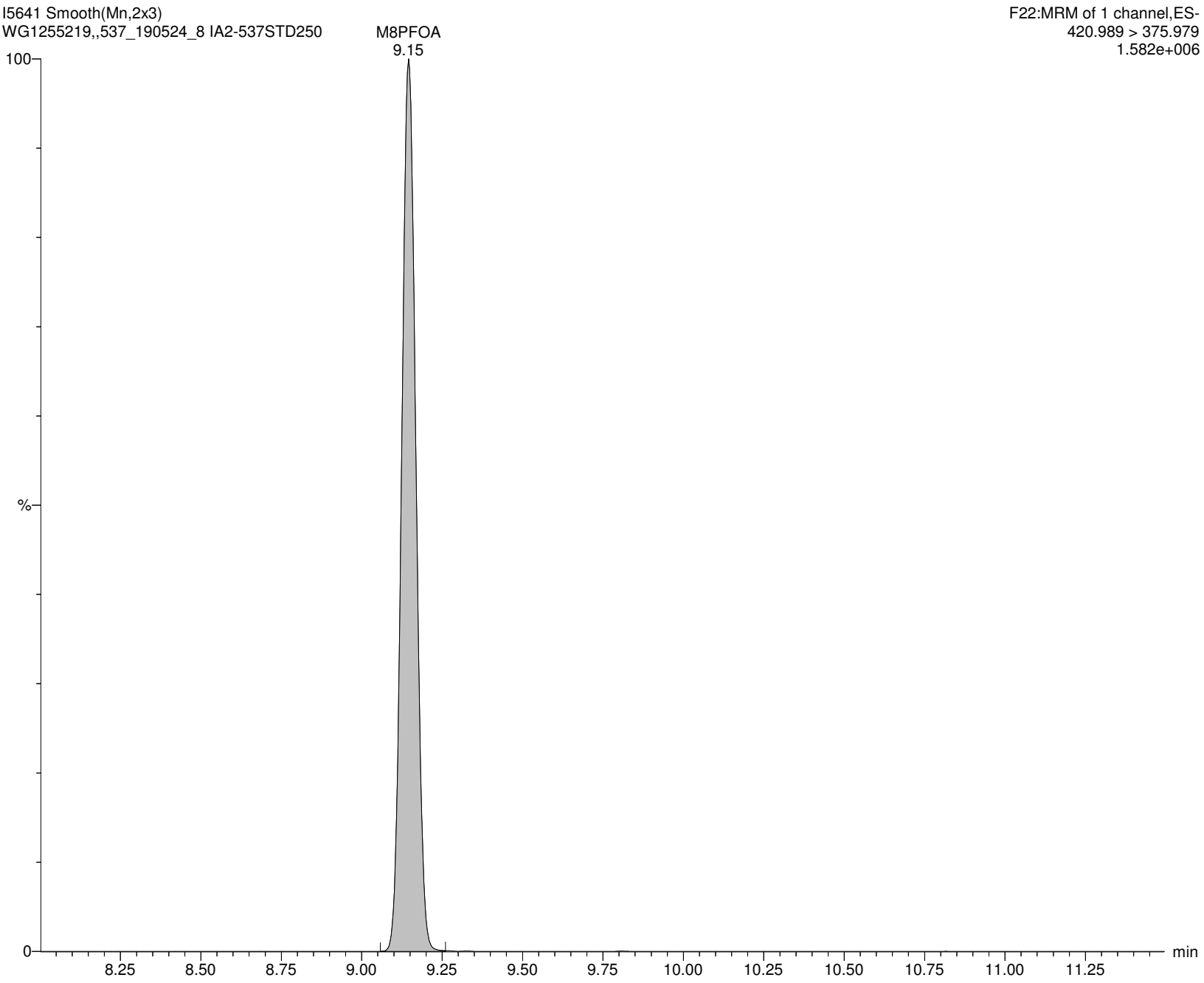


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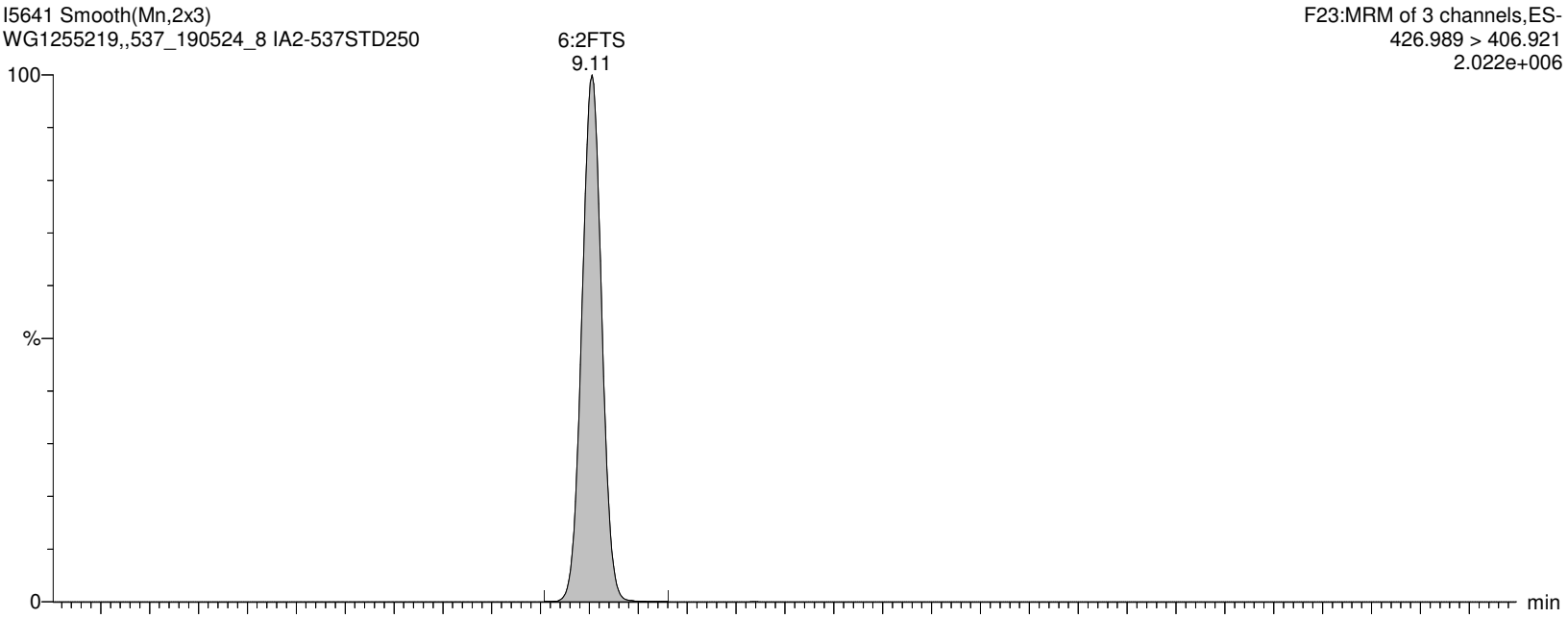


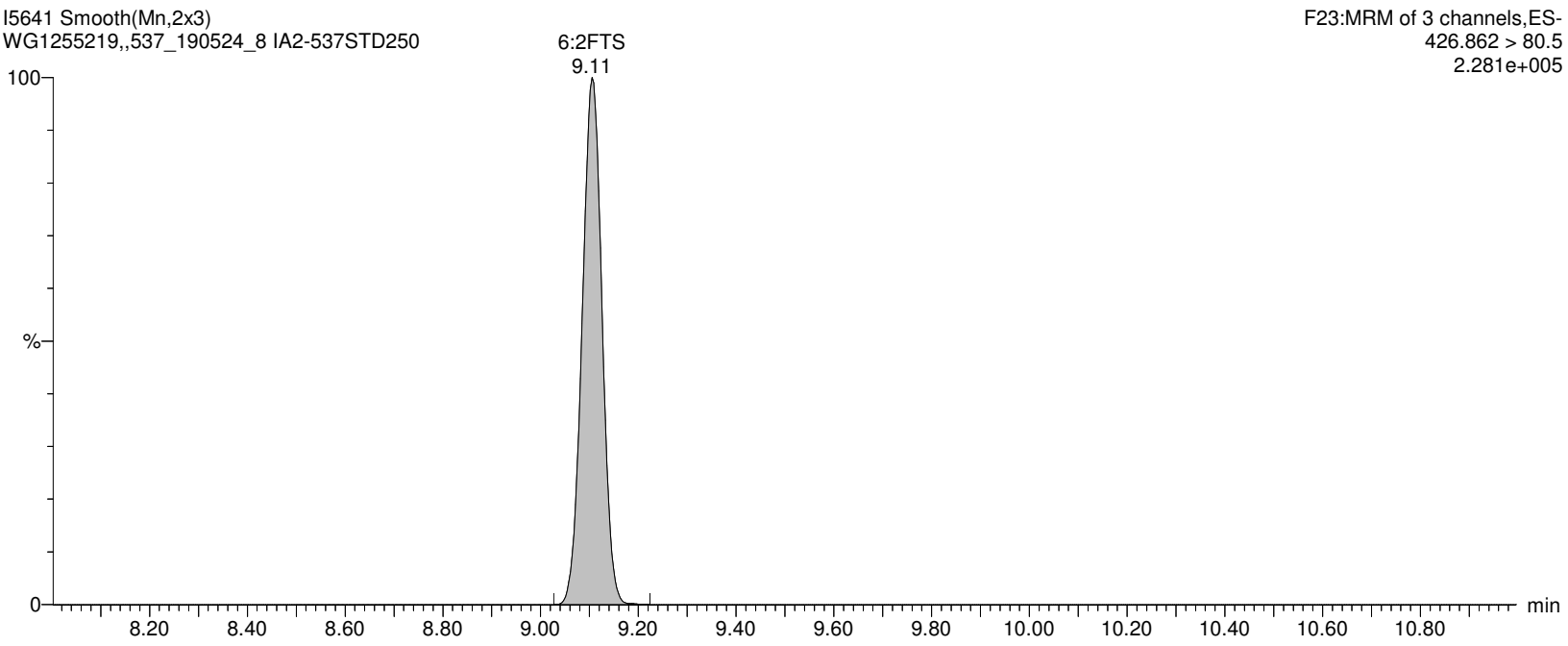
all concentration units in (ng/mL)

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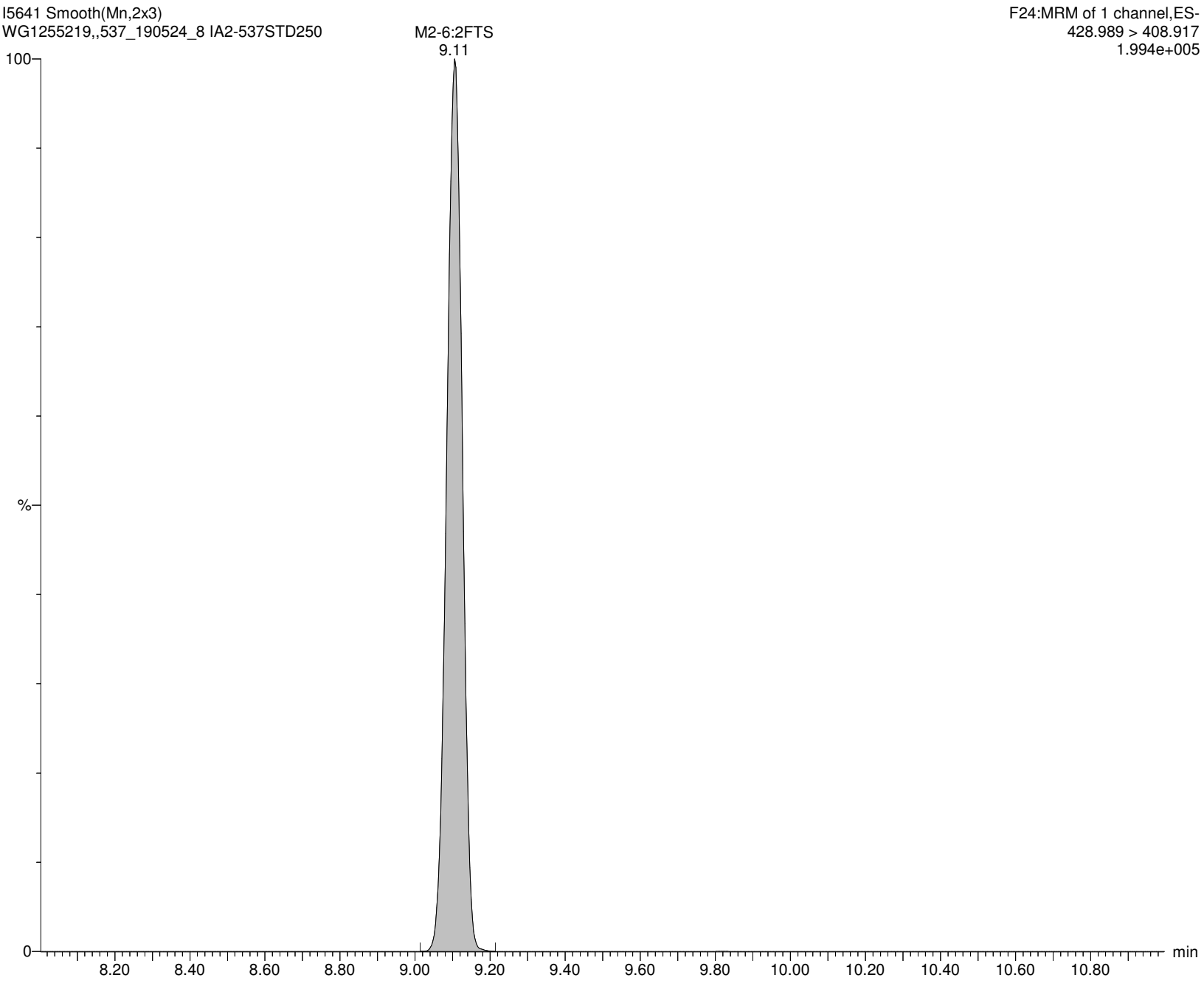


all concentration units in (ng/mL)

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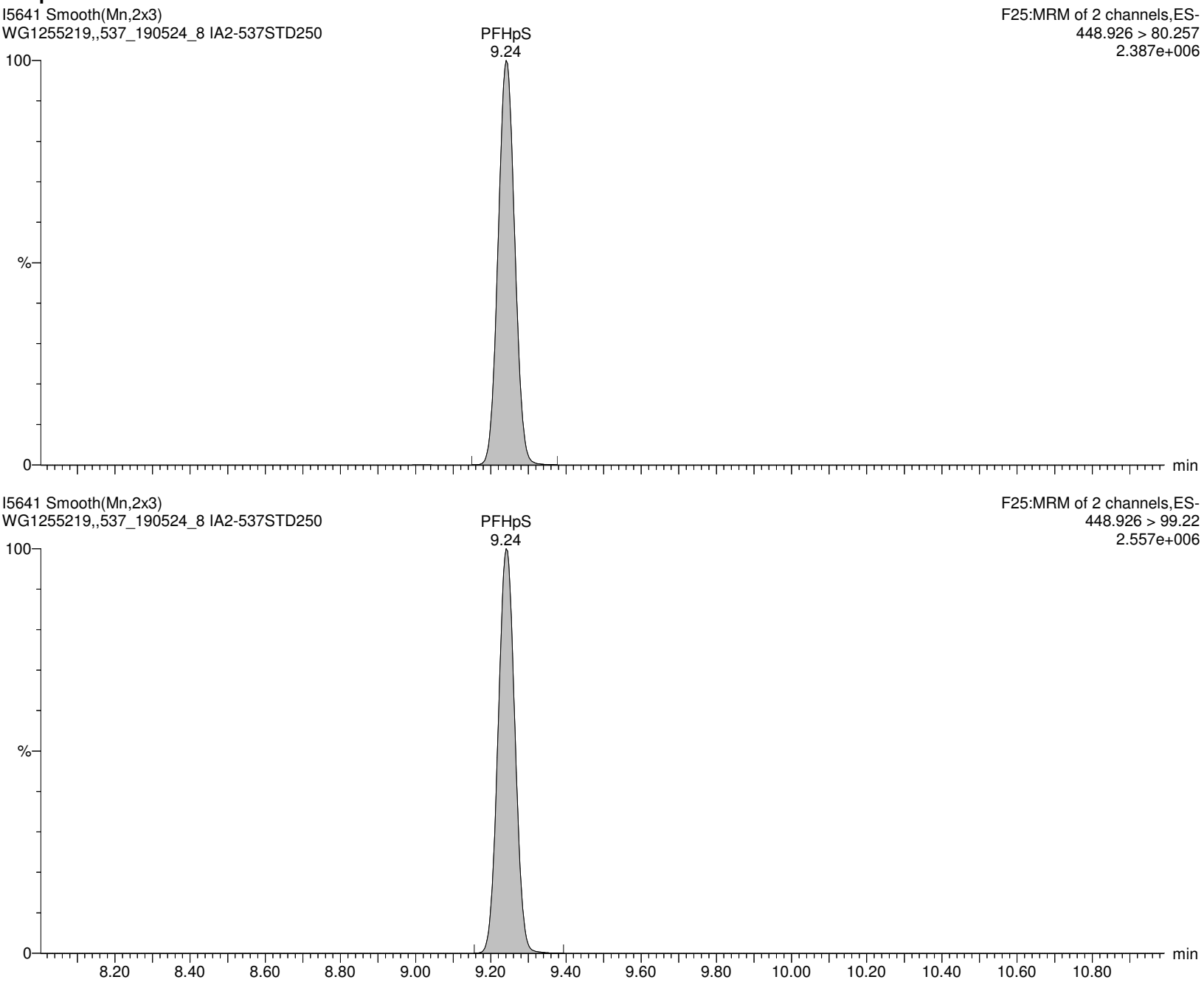


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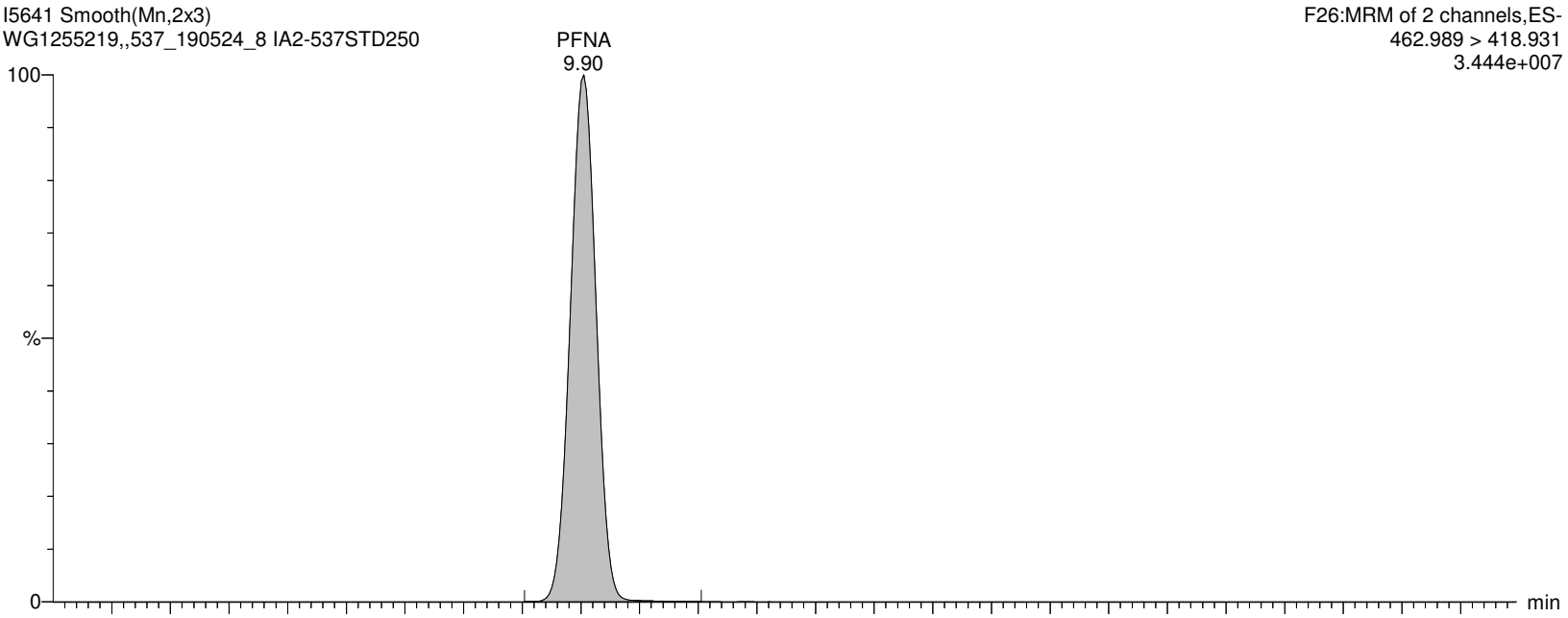


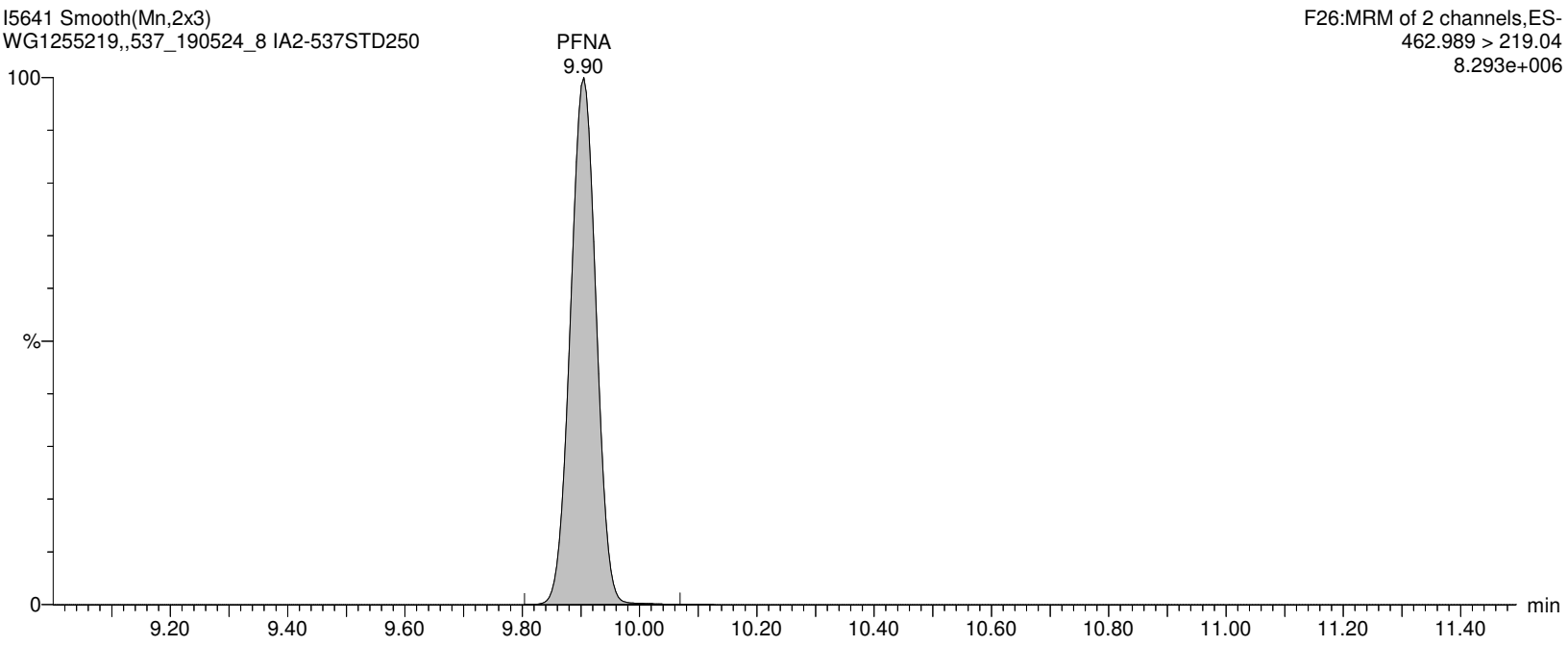
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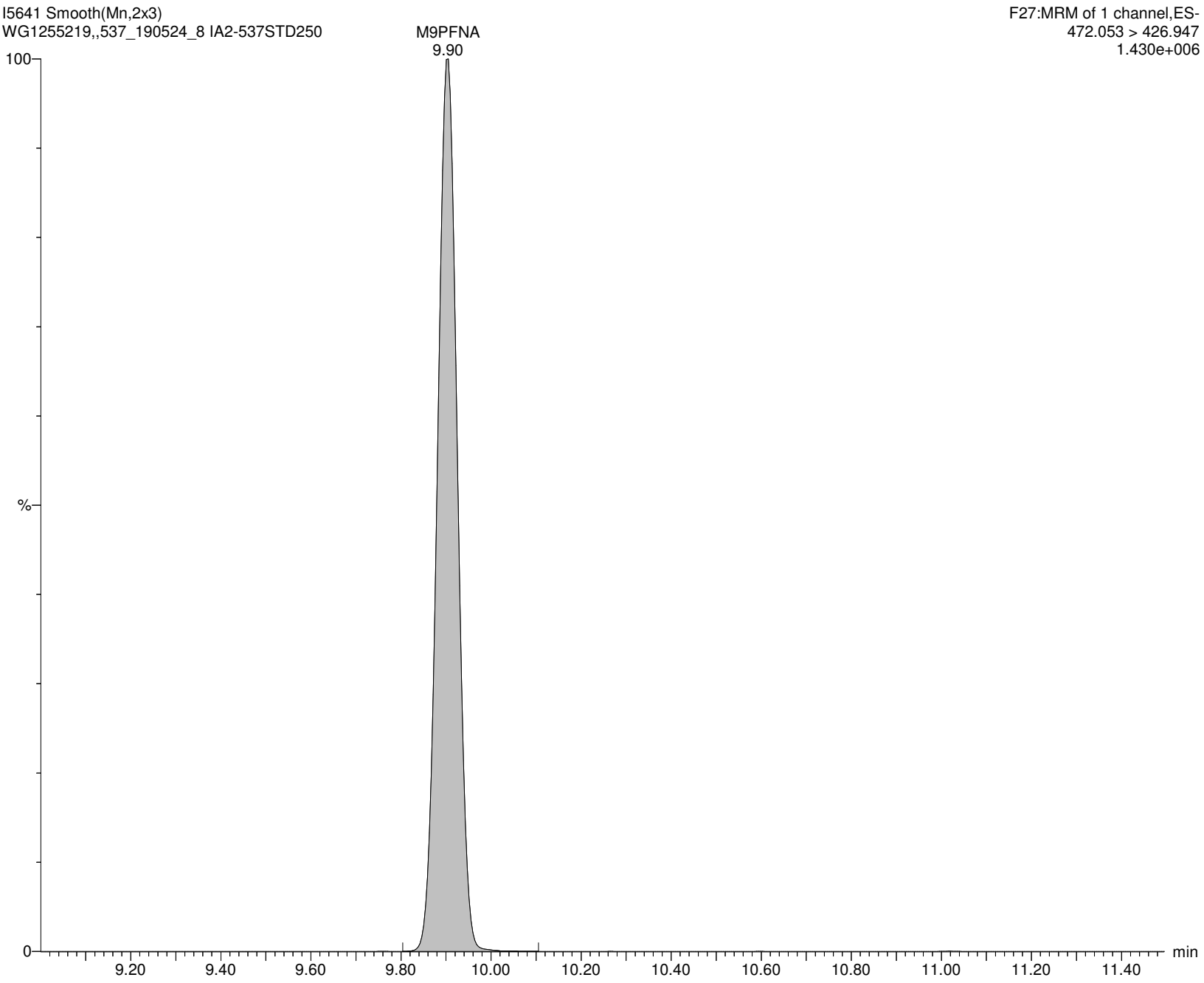


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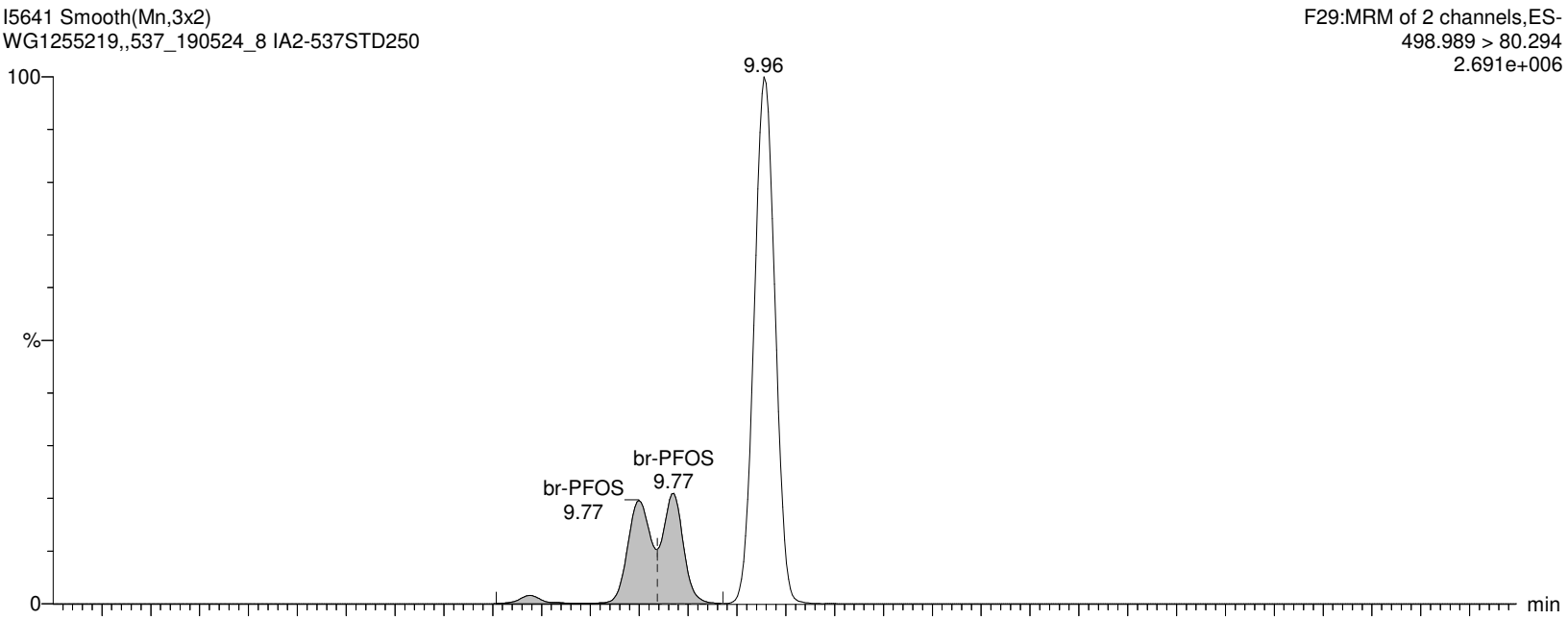


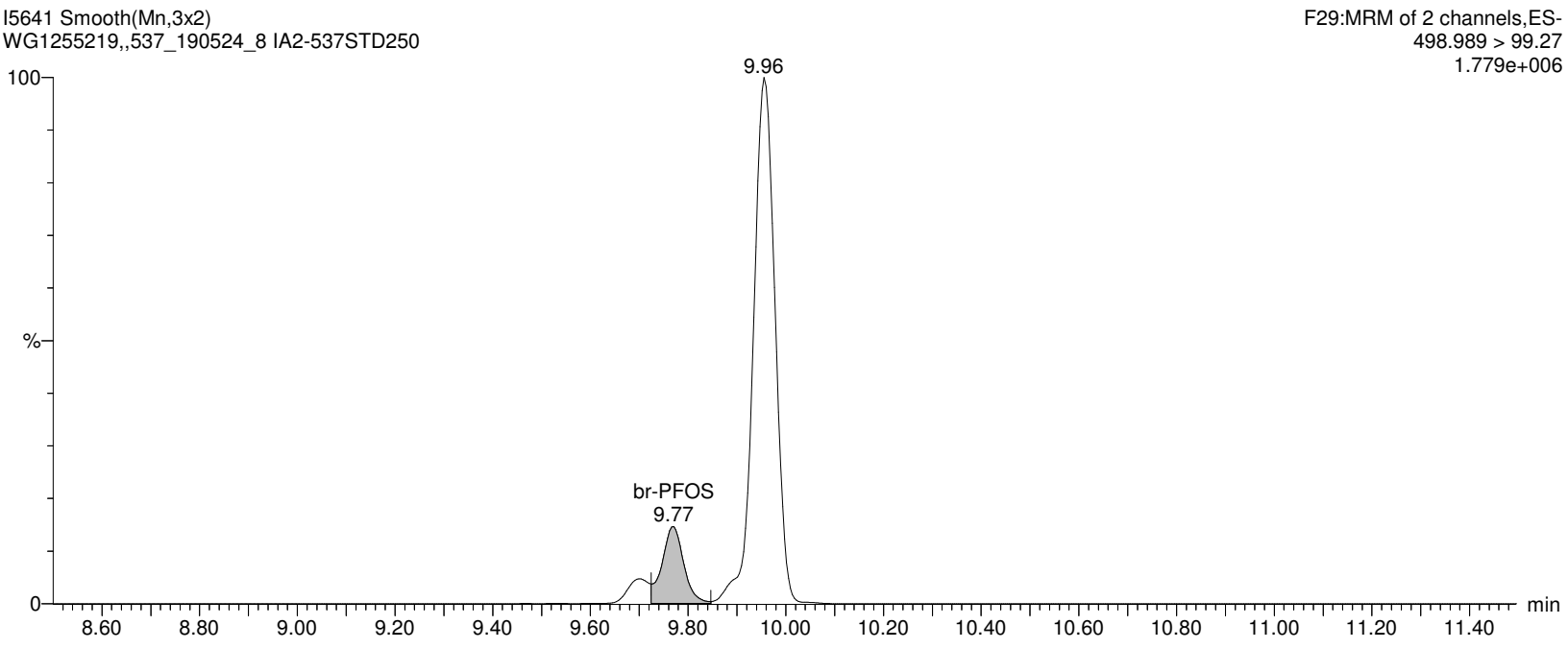
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:43 Eastern Daylight Time

Name: I5641
ID: IA2-537STD250
Date: 01-Jul-2019
Time: 19:53:14
Description: WG1255219,,537_190524_8
User: LCMS02:JW
Vial: 1:B,1
Instrument: XEVO-TQSmicro#QEB0050
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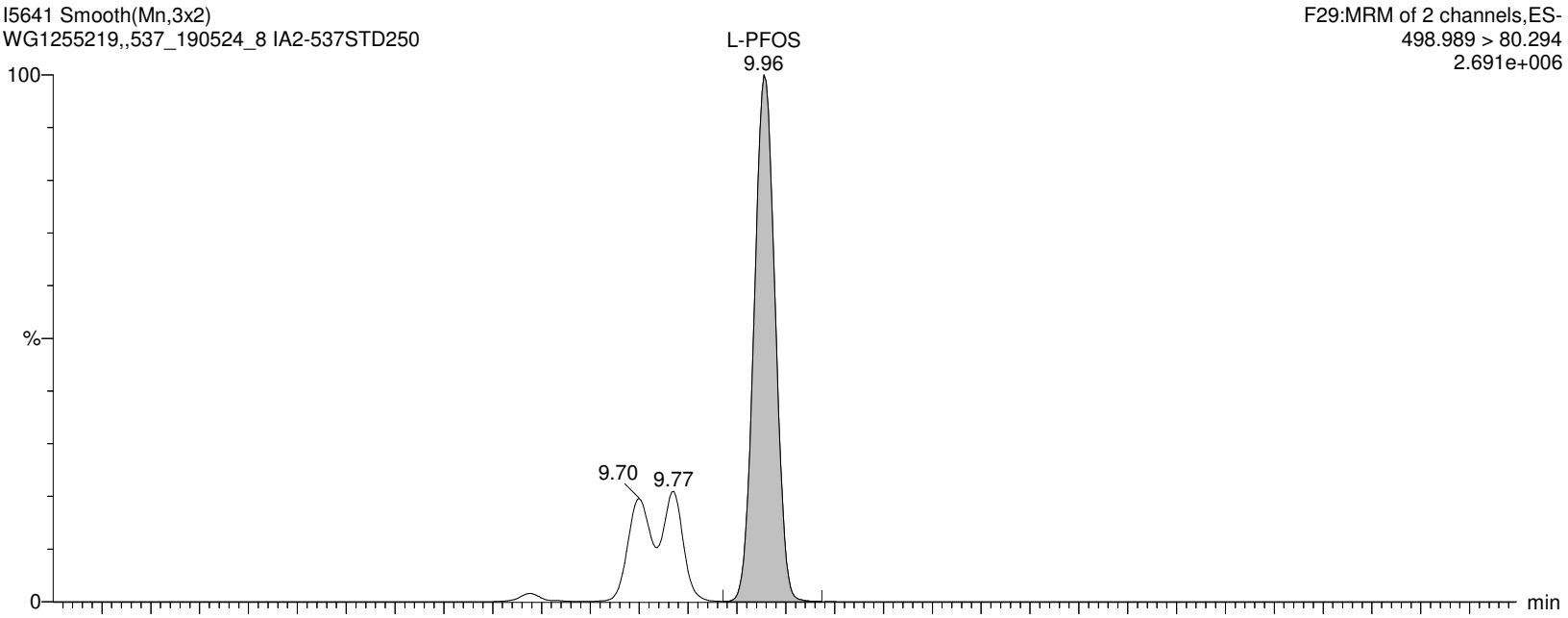


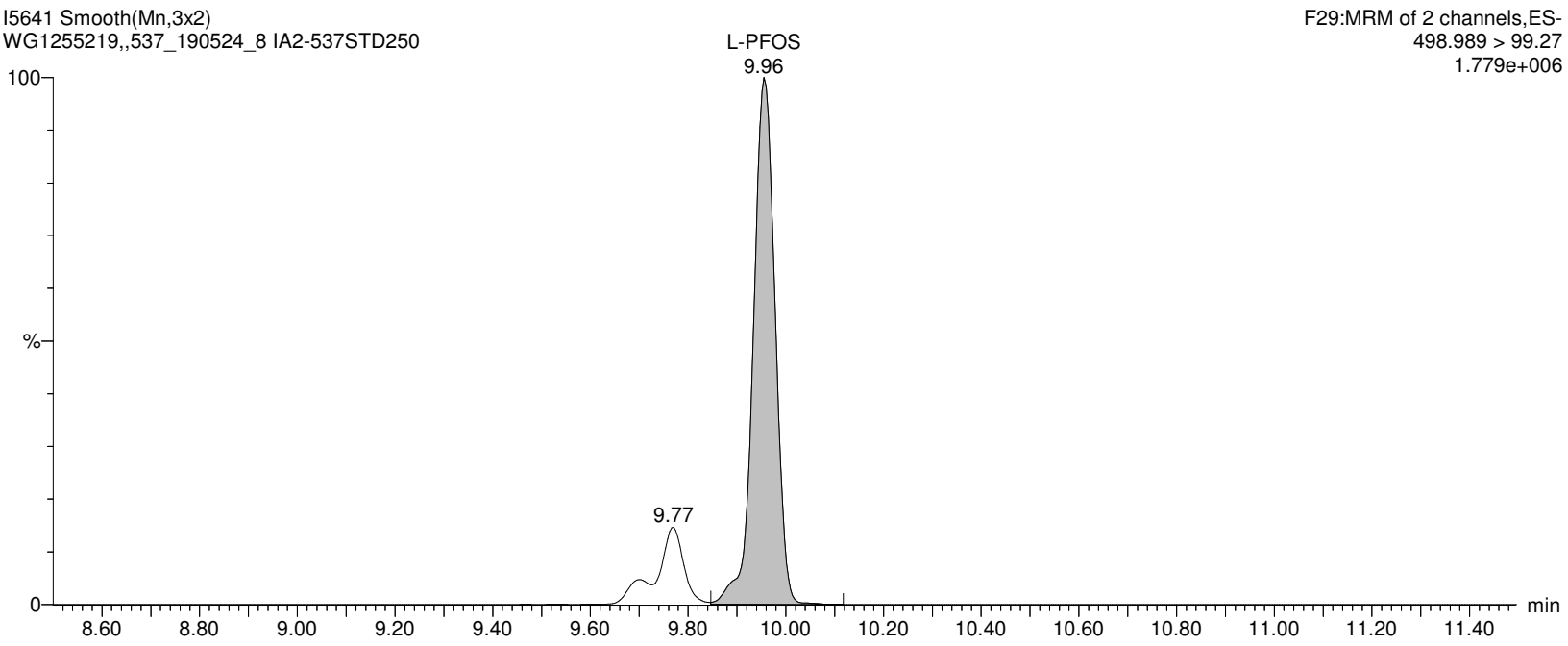
all concentration units in (ng/mL)

Alpha Analytical Inc.
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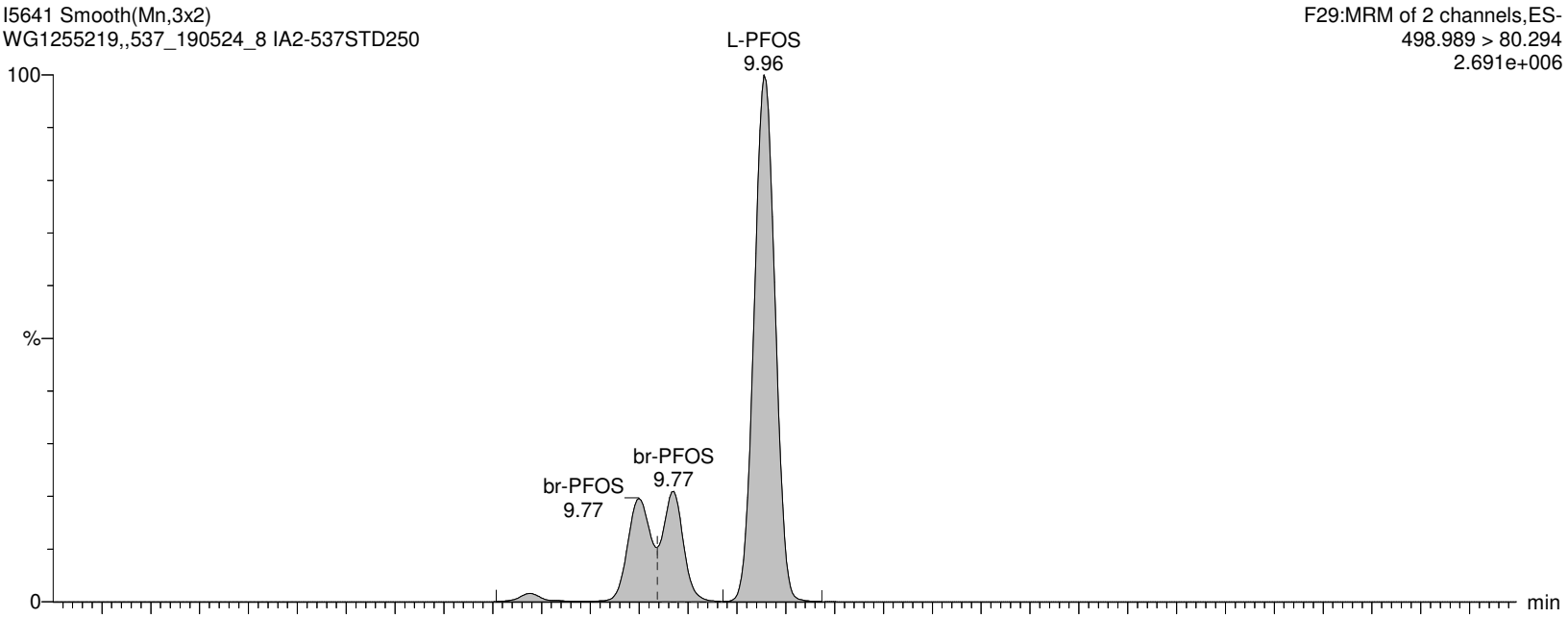


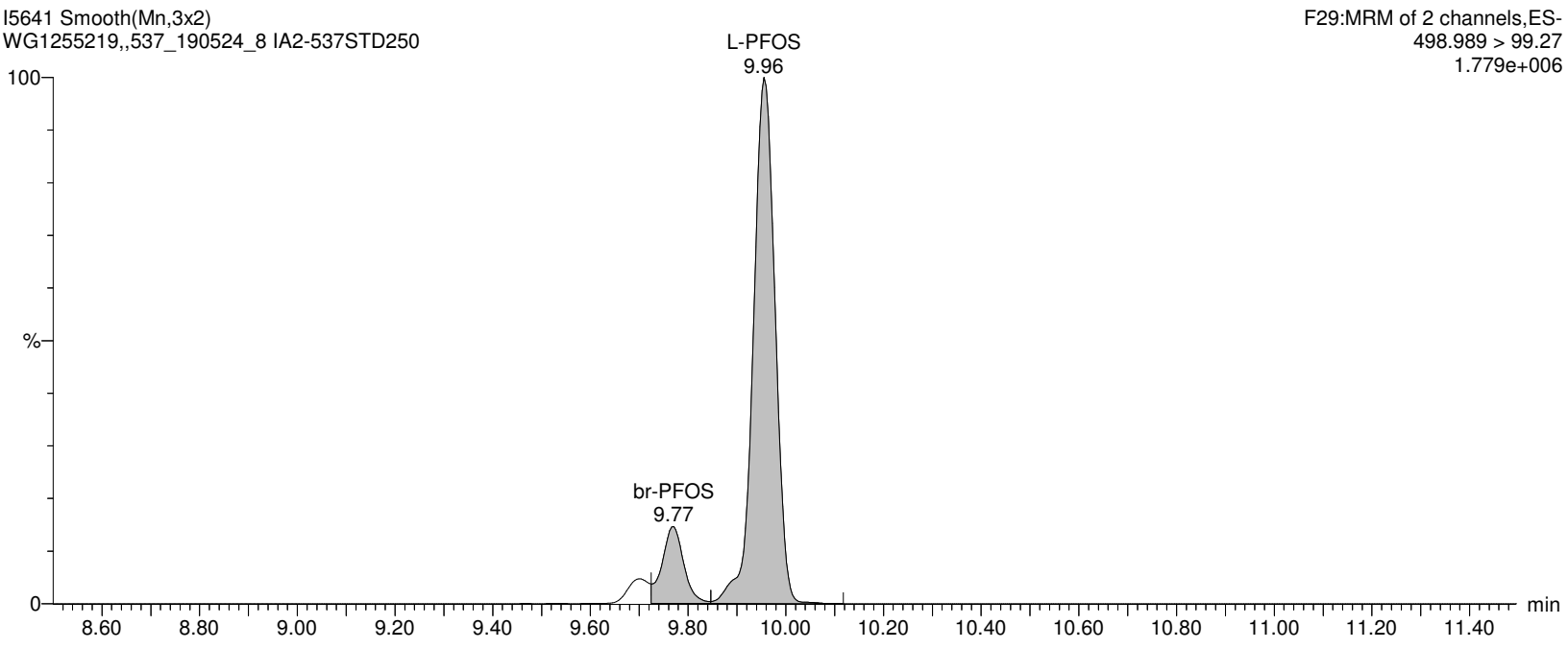
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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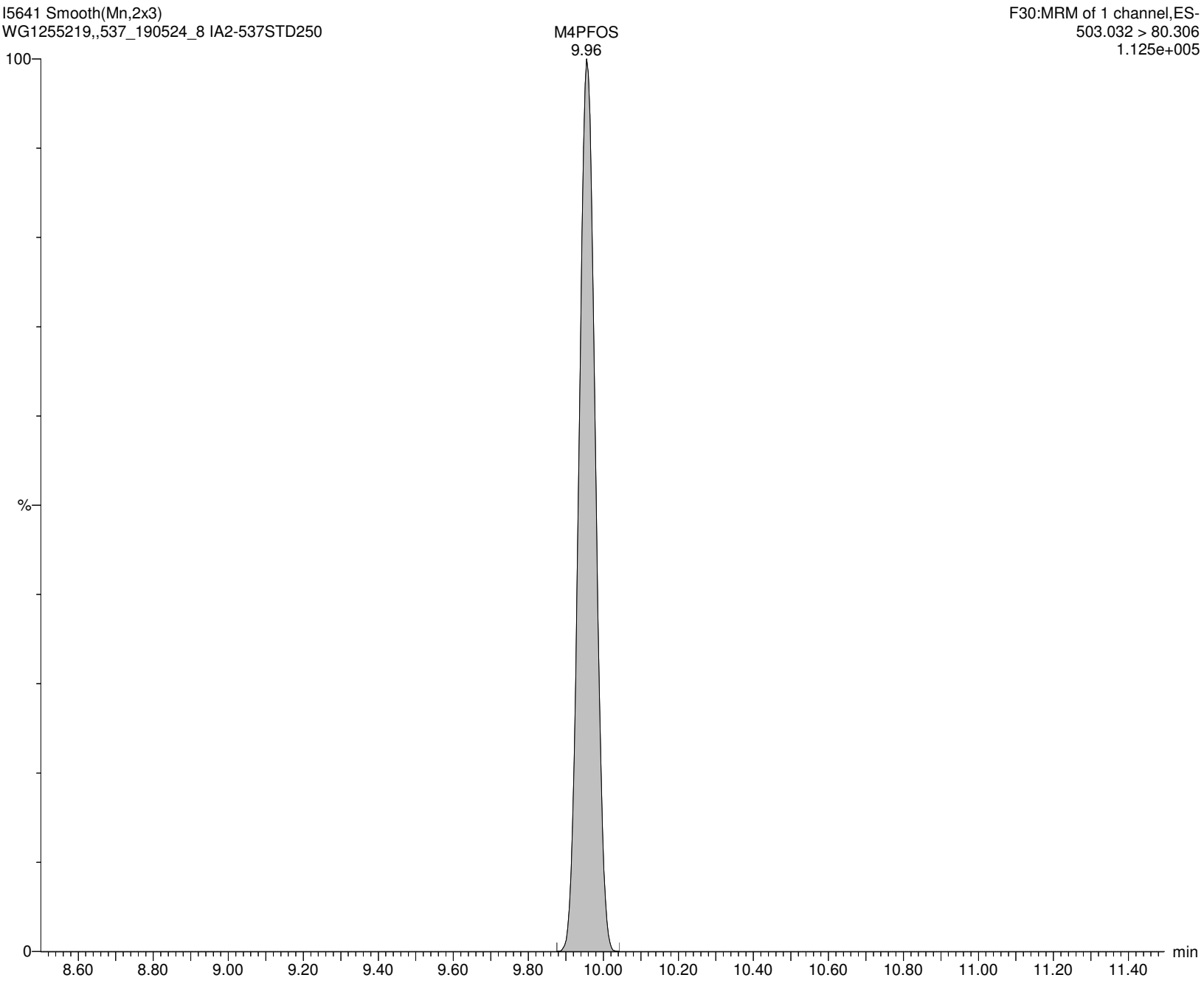


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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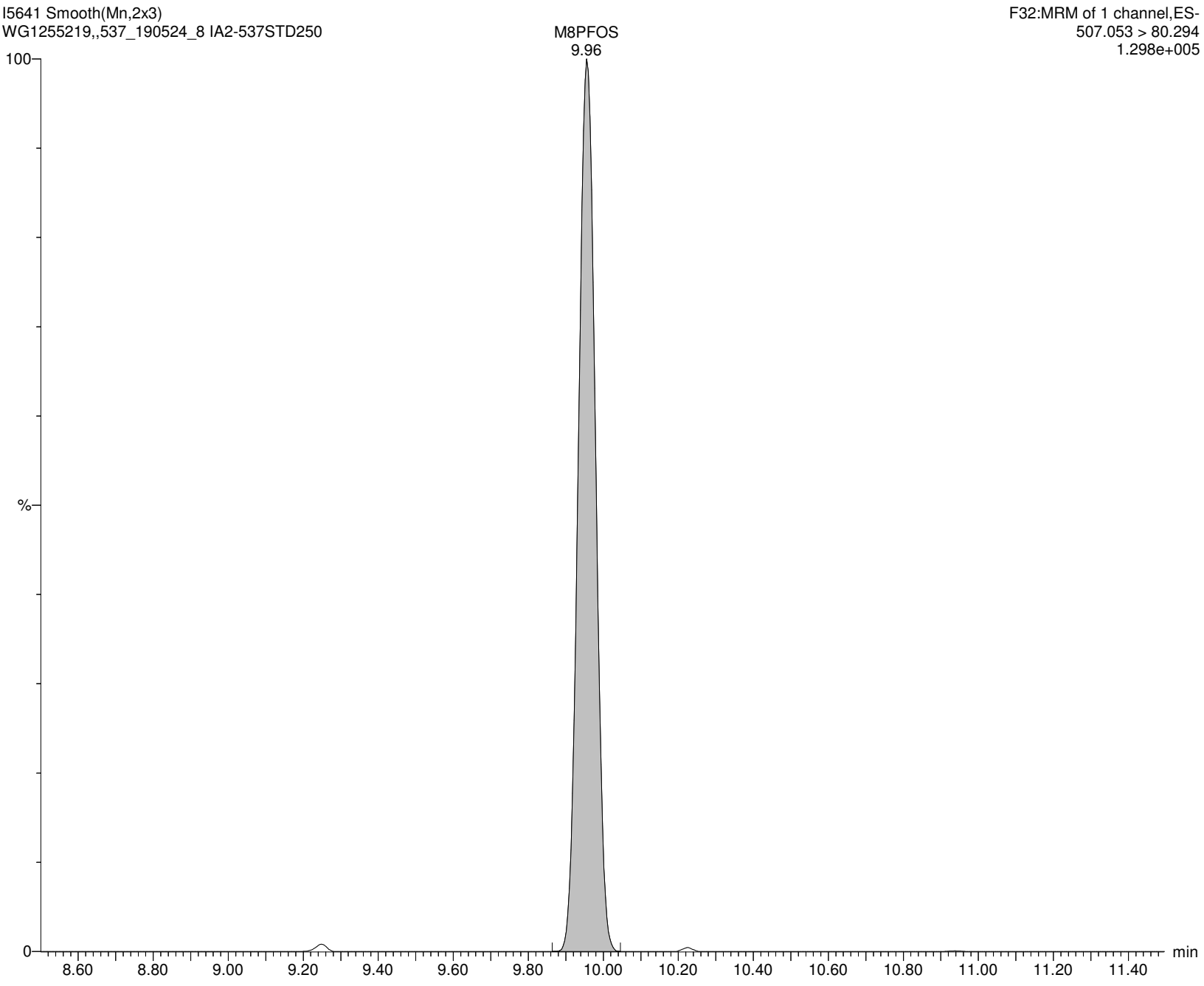


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Date: 01-Jul-2019
Time: 19:53:14
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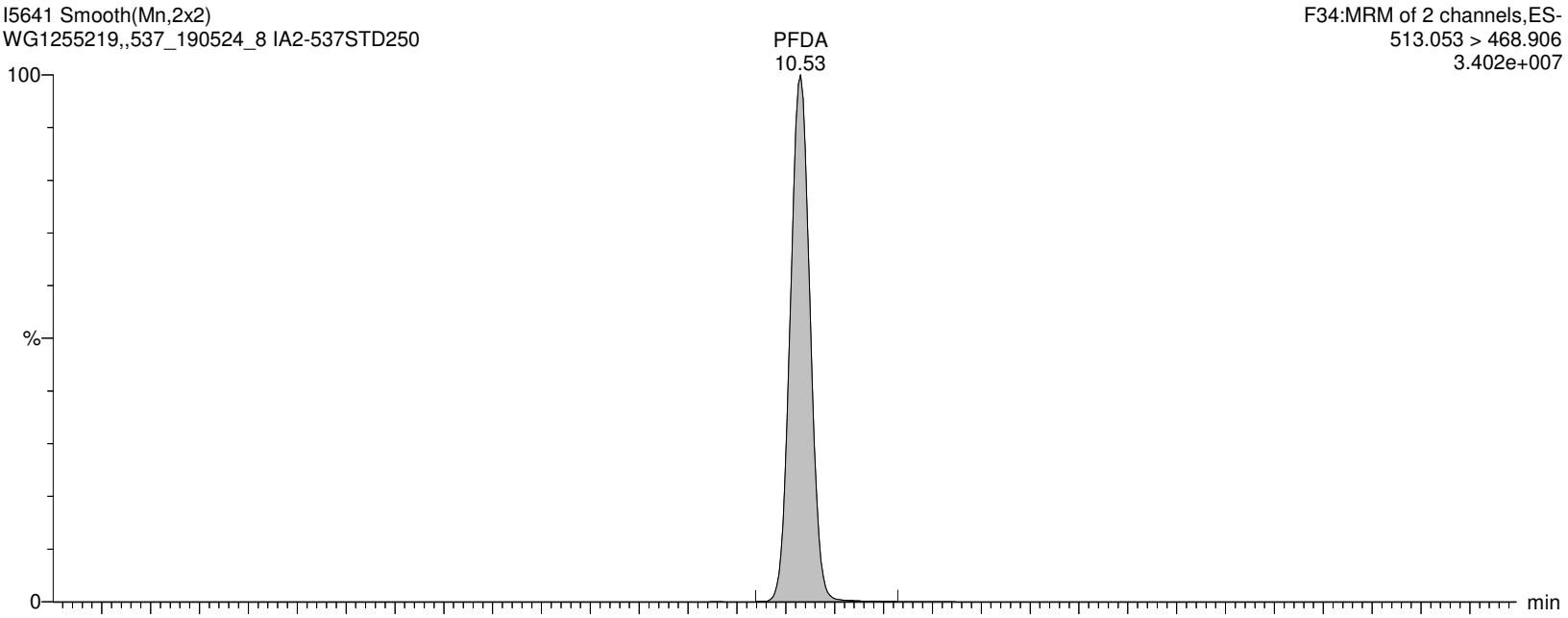


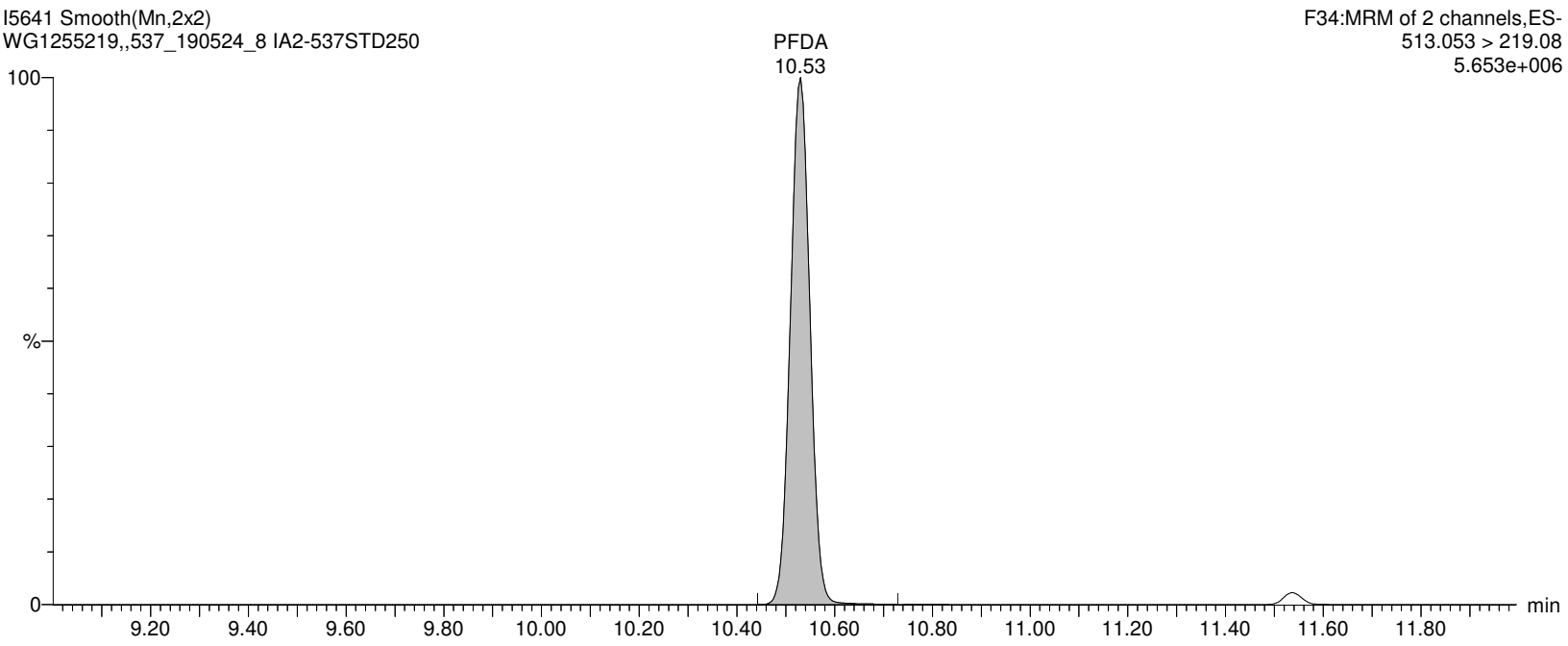
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
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Time: 19:53:14
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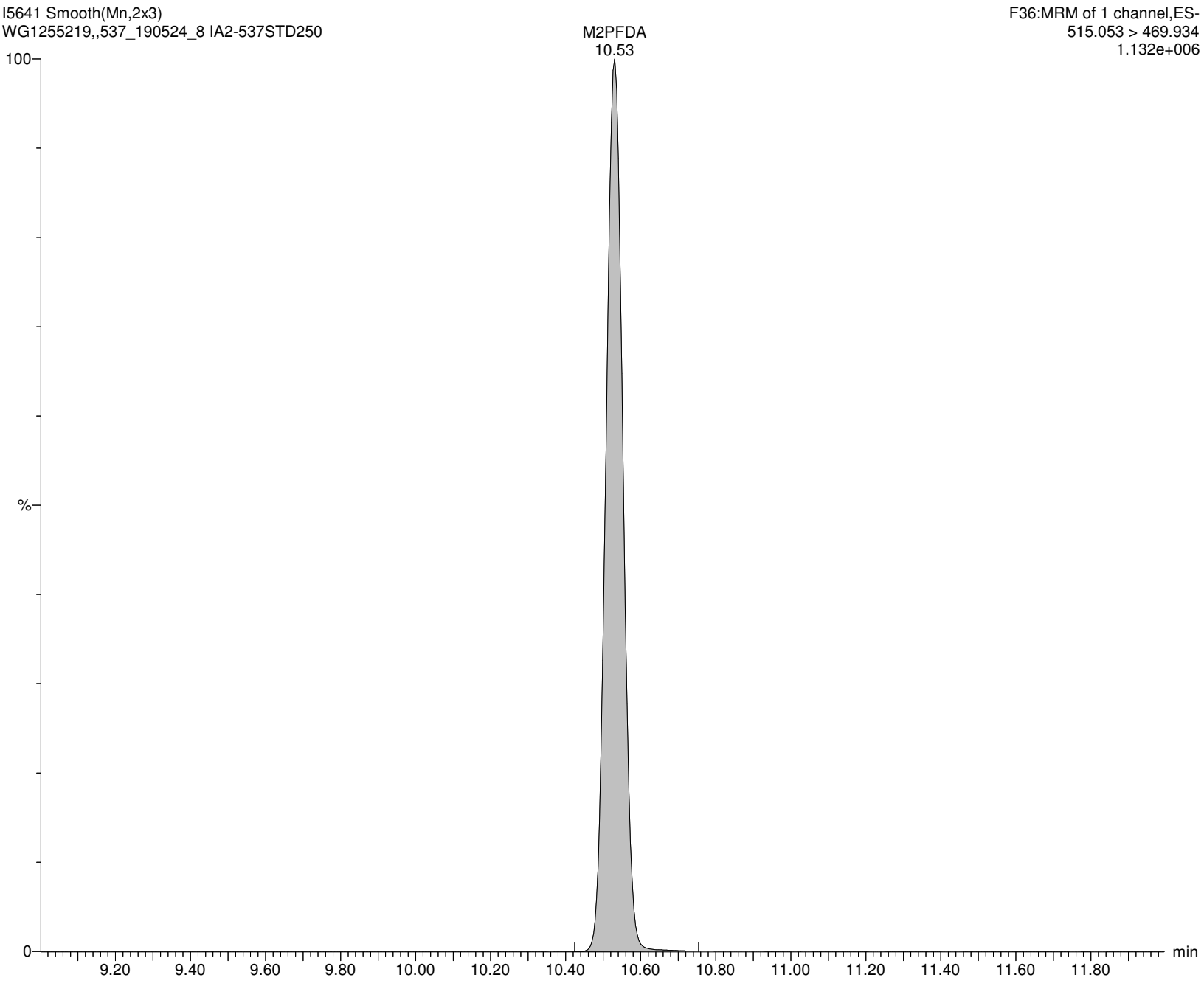


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Date: 01-Jul-2019
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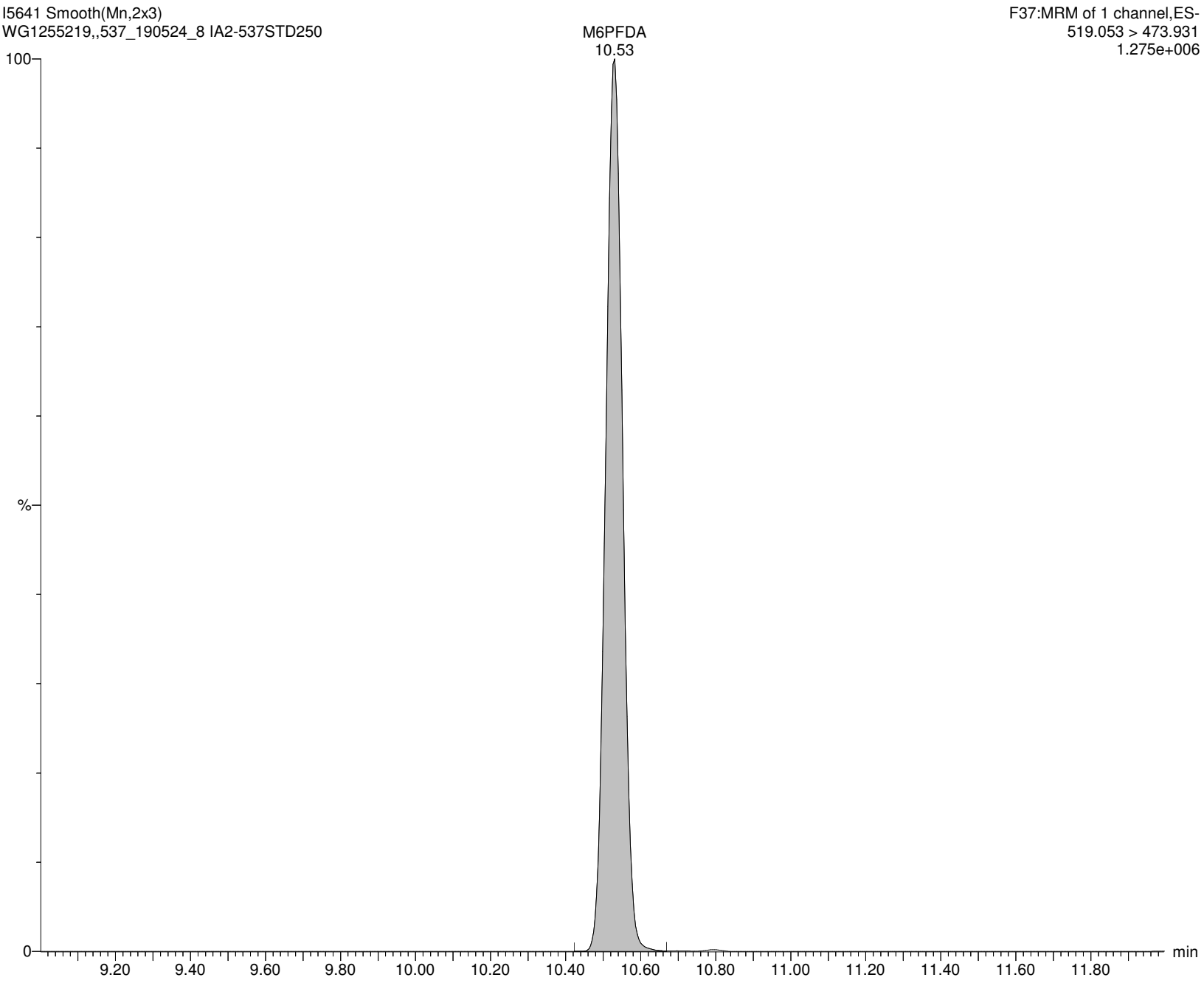


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Name: I5641
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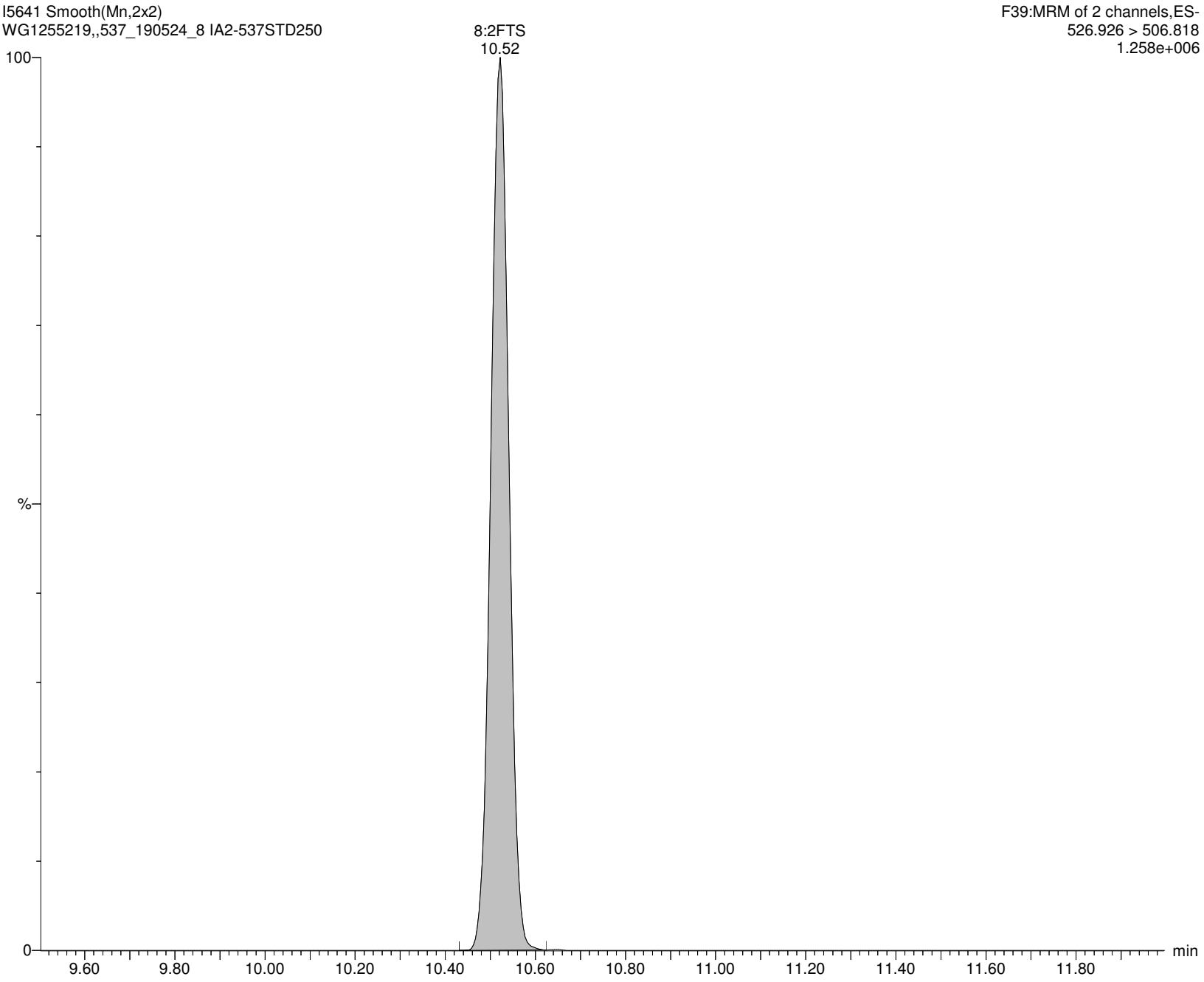


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Date: 01-Jul-2019
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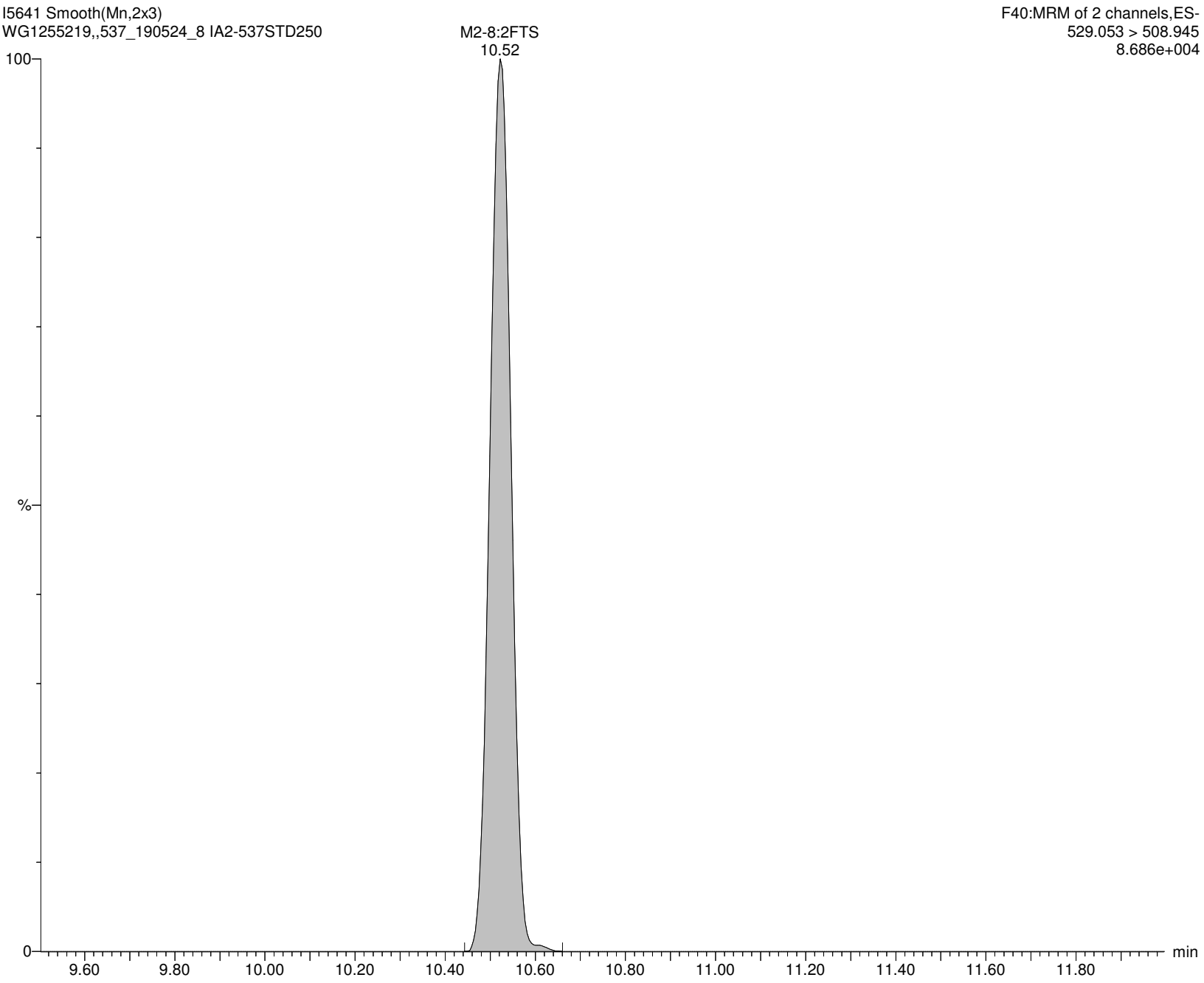


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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Date: 01-Jul-2019
Time: 19:53:14
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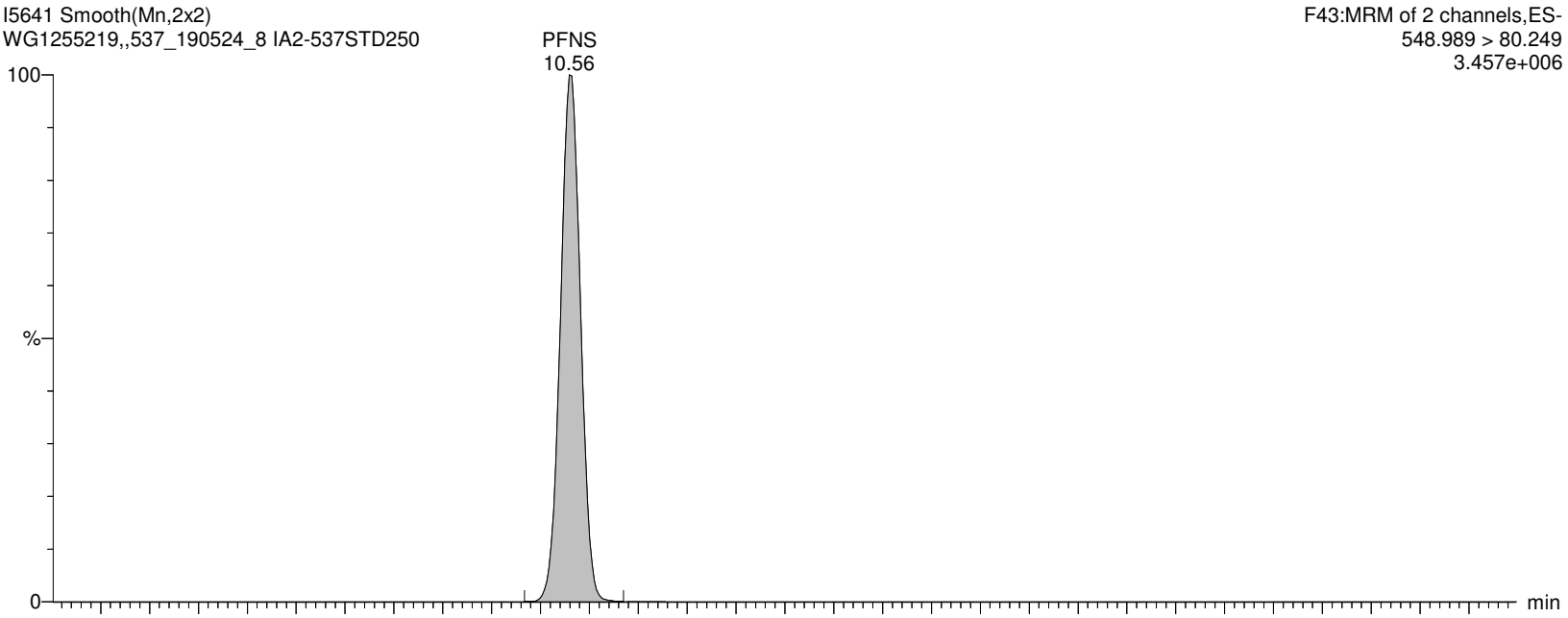


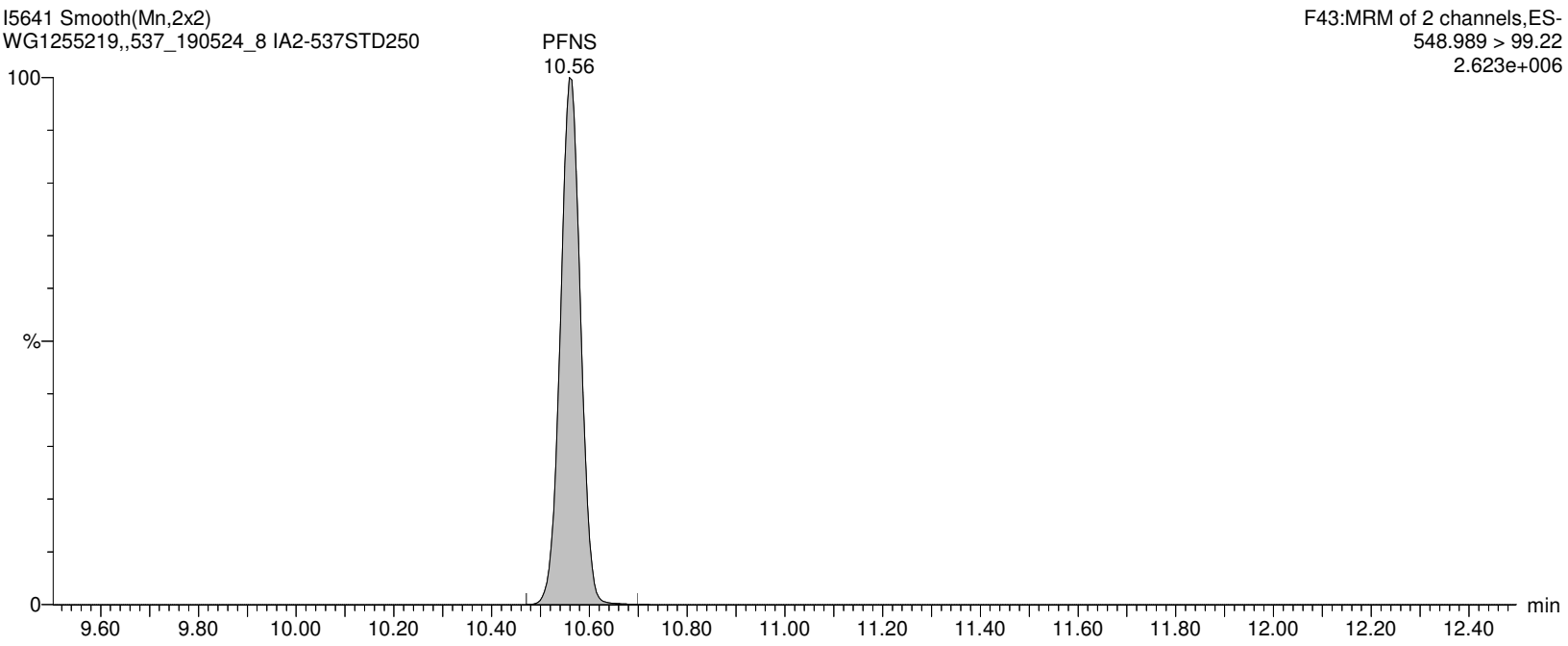
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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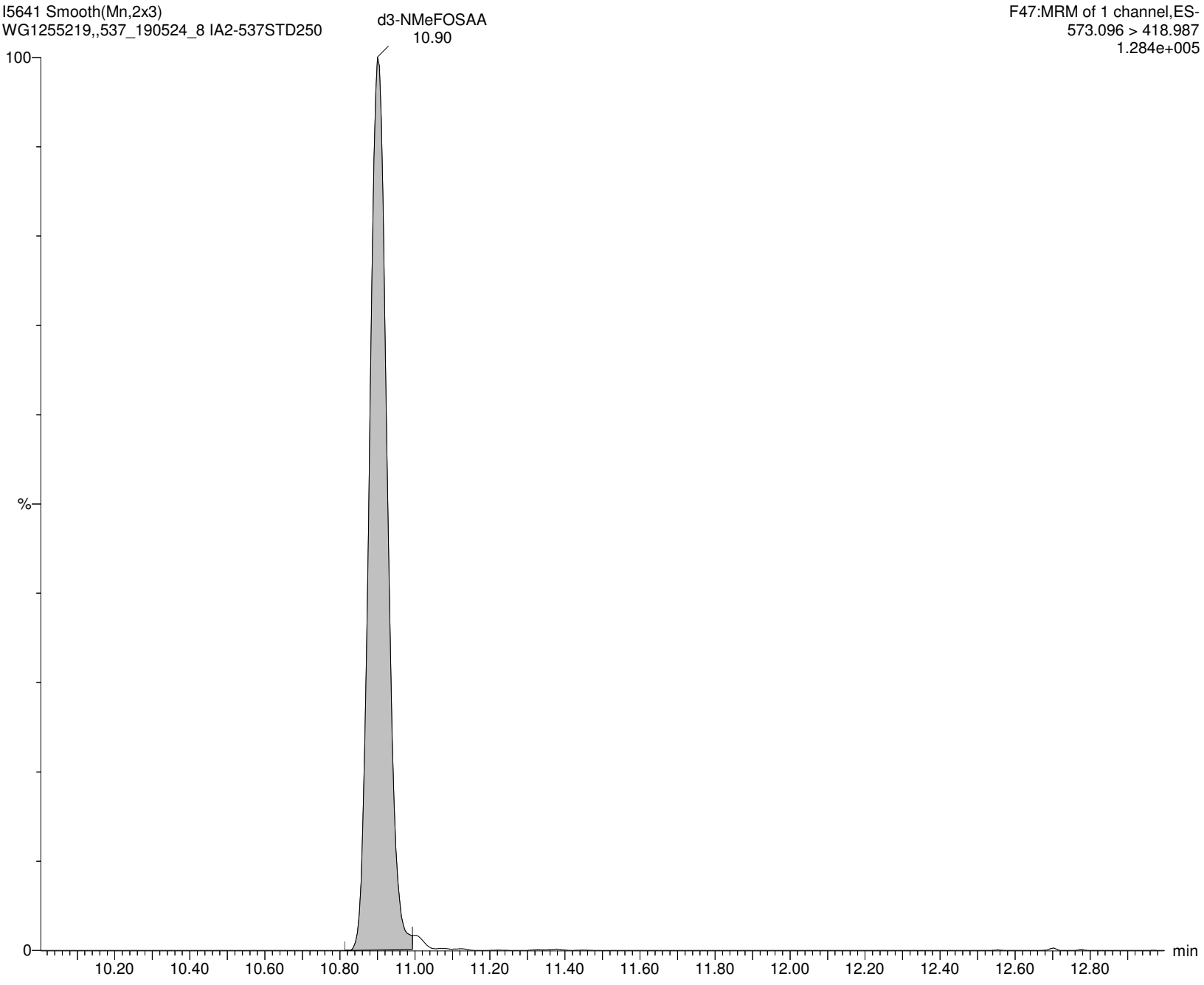


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Time: 19:53:14
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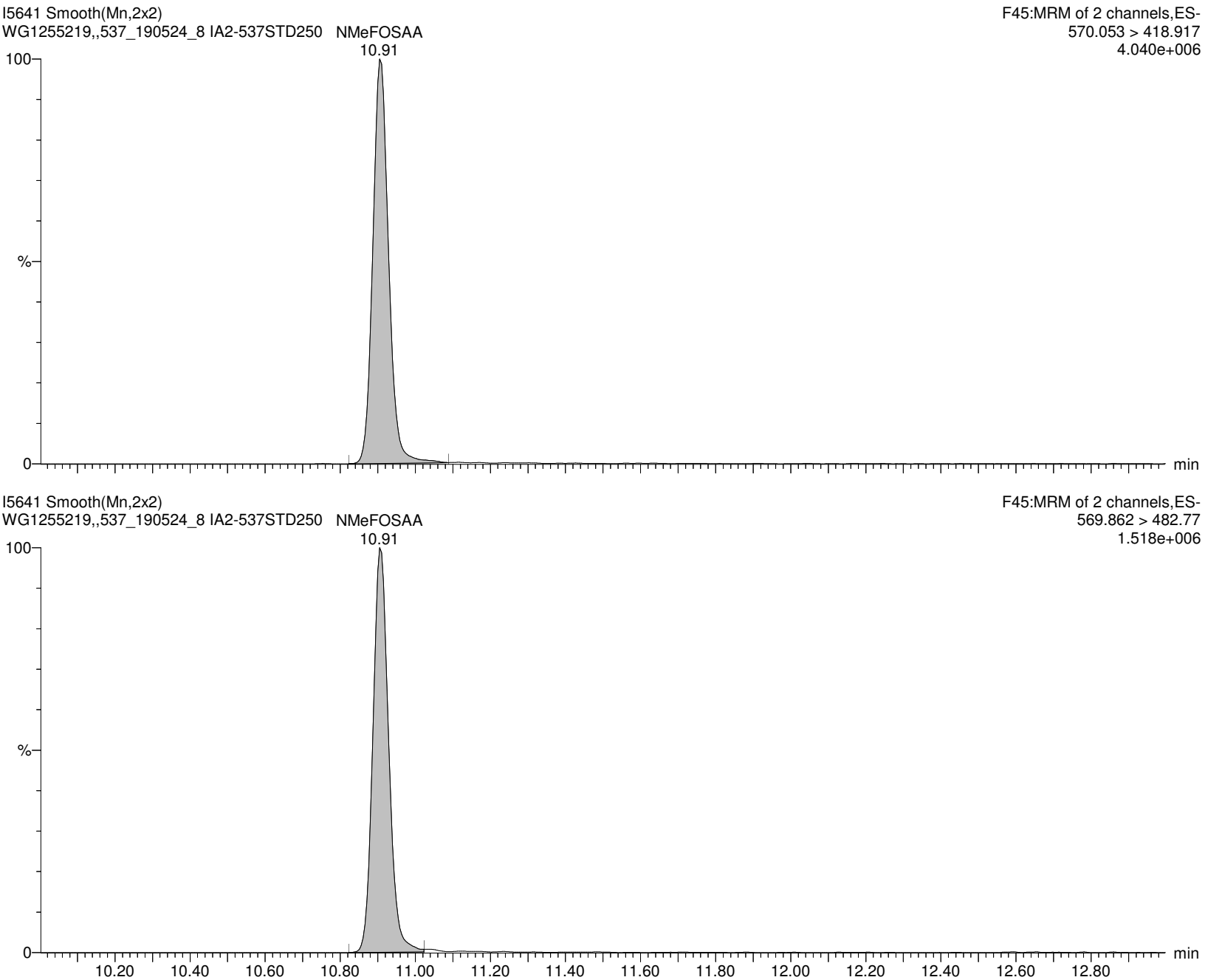


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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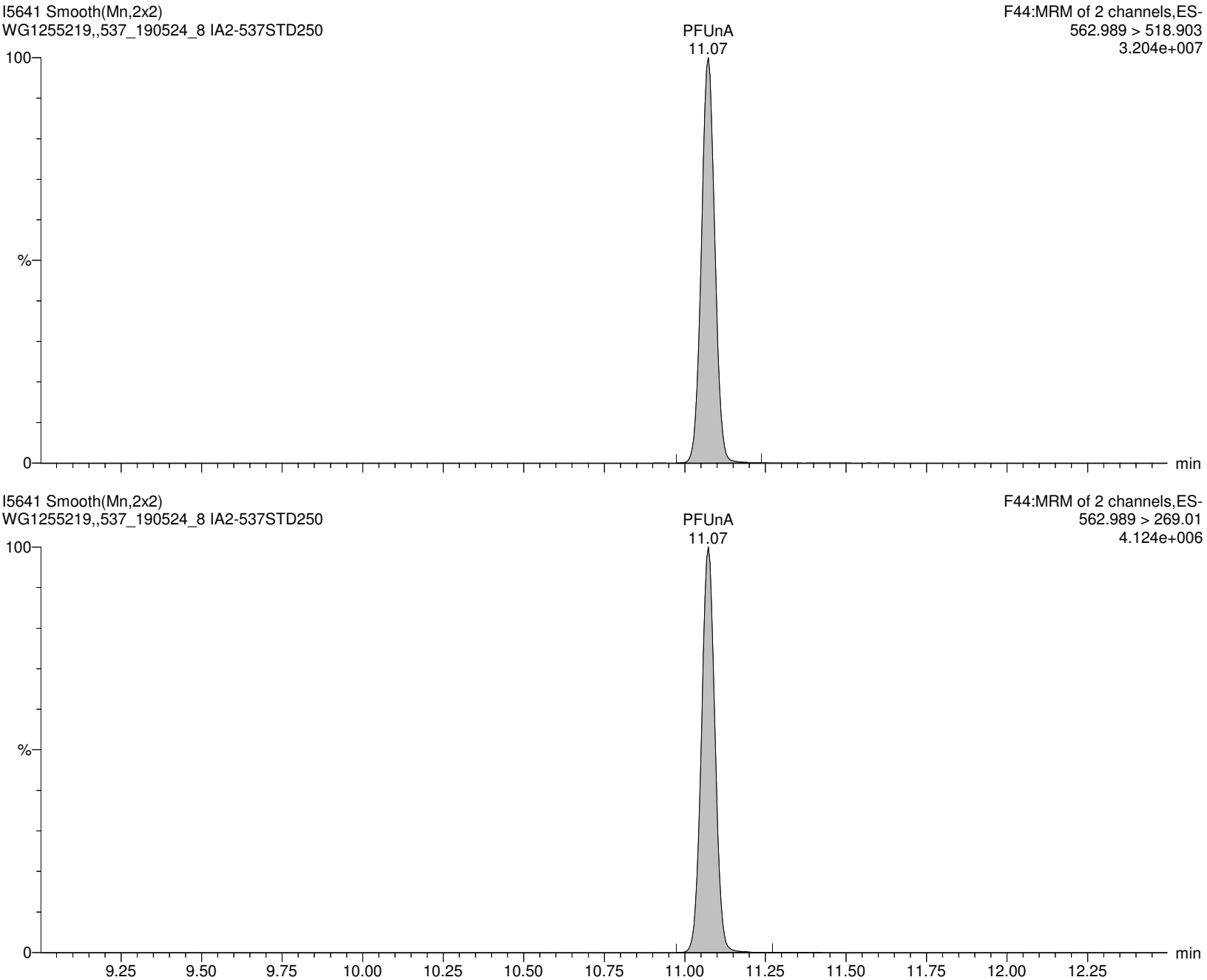


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
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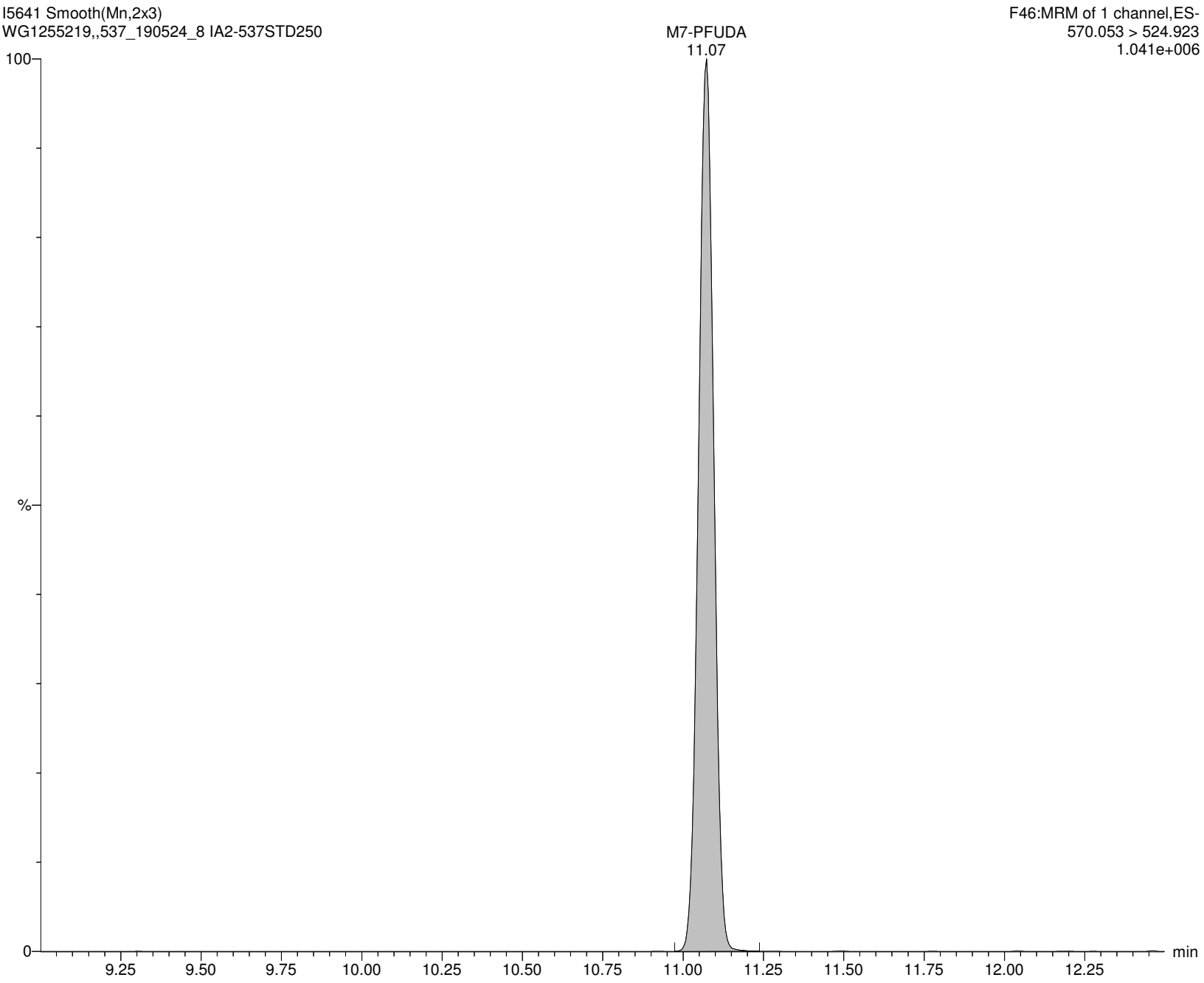


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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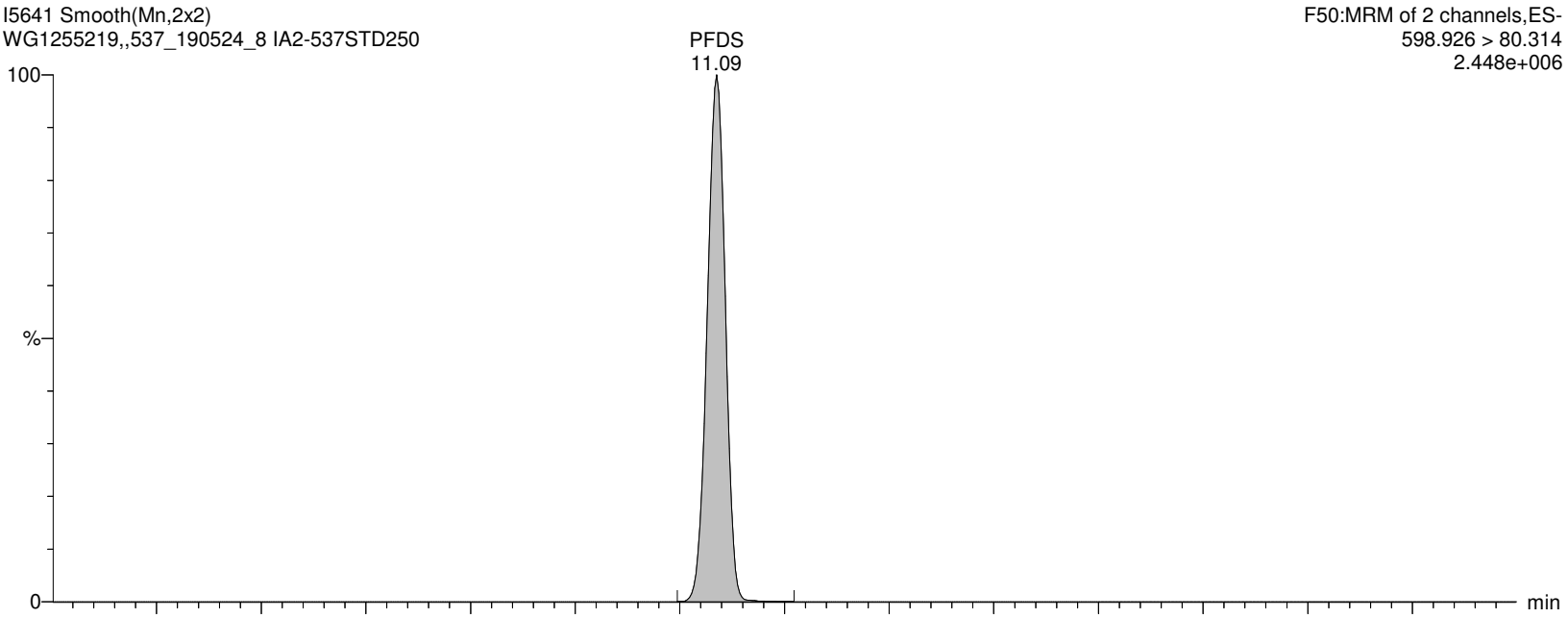


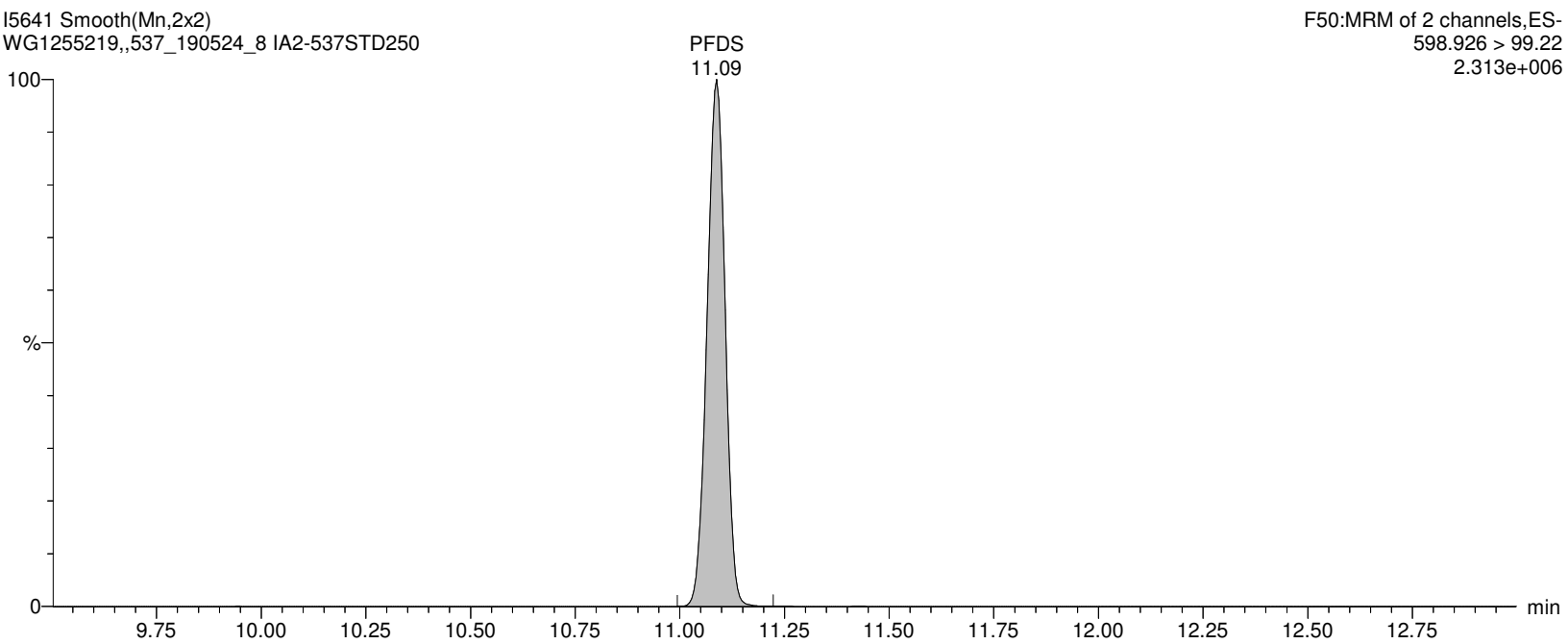
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
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PFDS



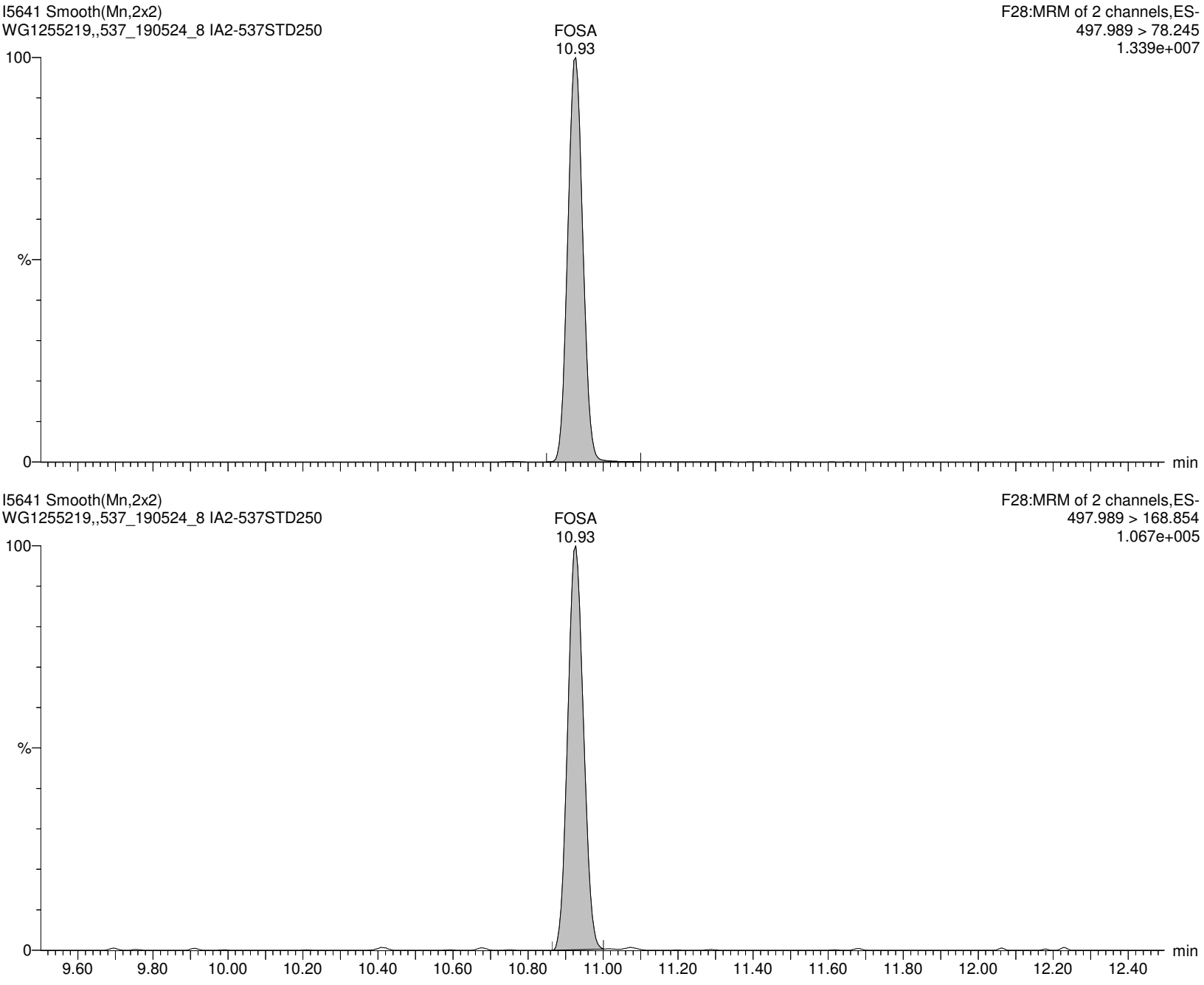


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:43 Eastern Daylight Time

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ID: IA2-537STD250
Date: 01-Jul-2019
Time: 19:53:14
Description: WG1255219,,537_190524_8
User: LCMS02:JW
Vial: 1:B,1
Instrument: XEVO-TQSmicro#QEB0050
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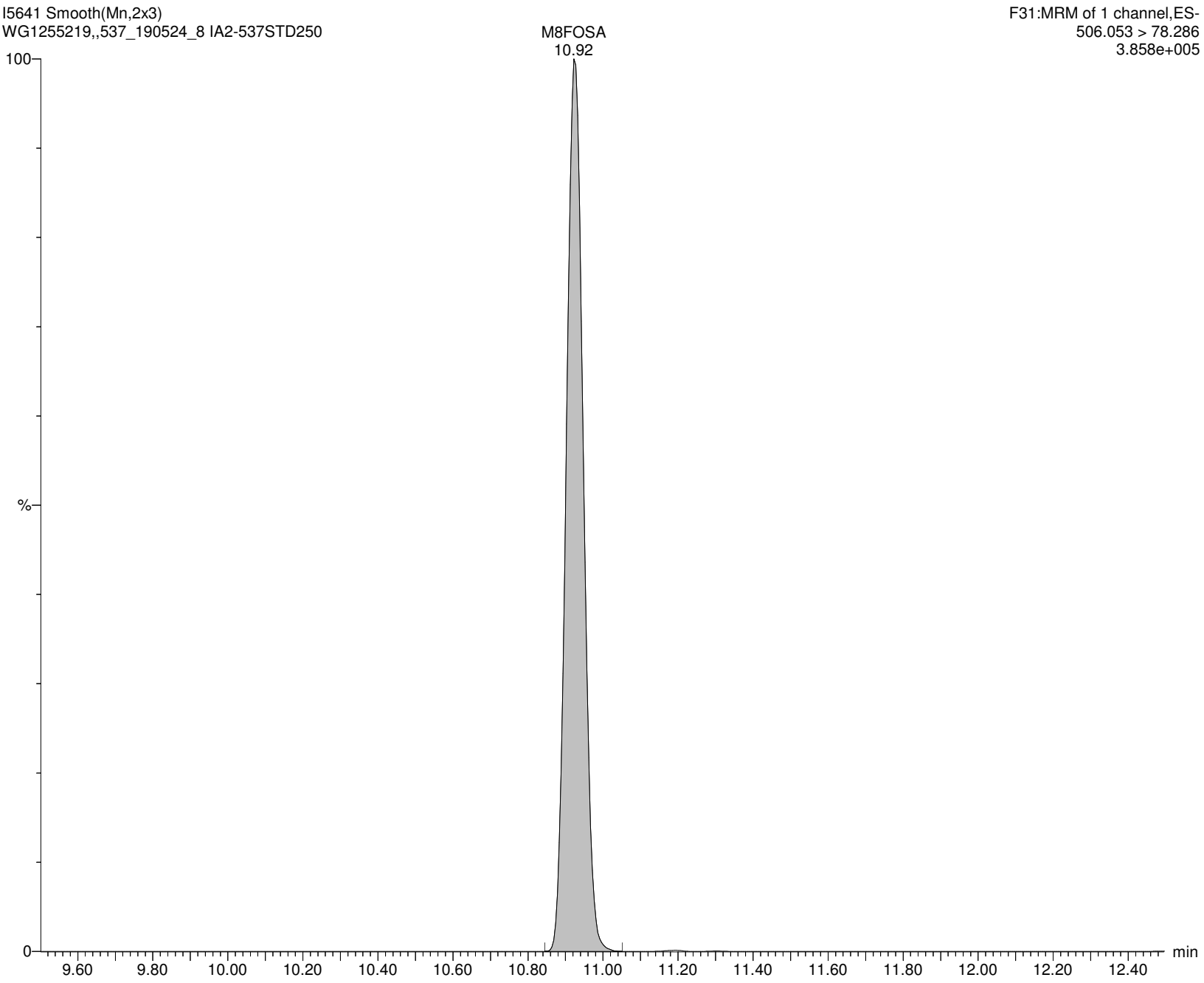


all concentration units in (ng/mL)

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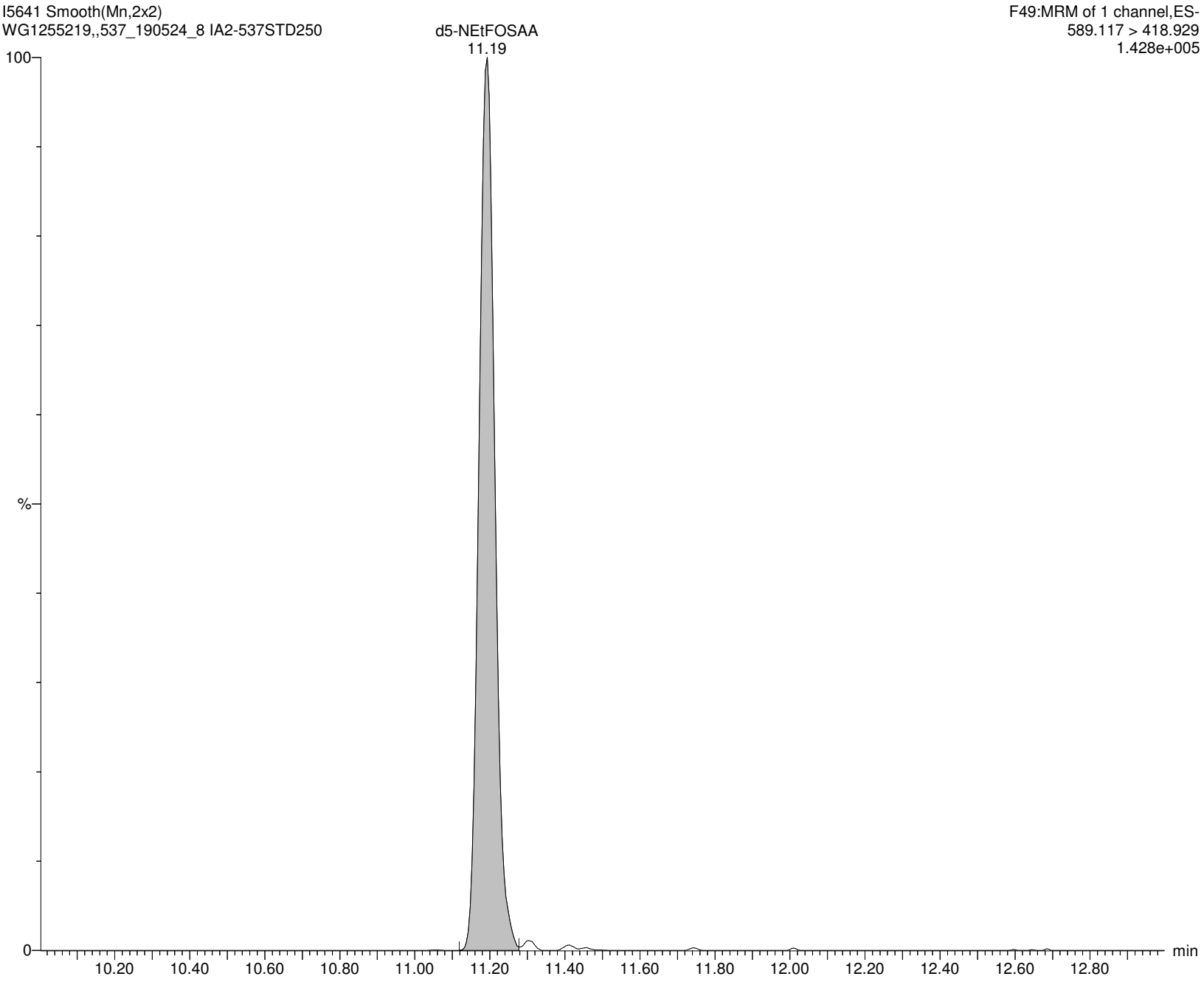


all concentration units in (ng/mL)

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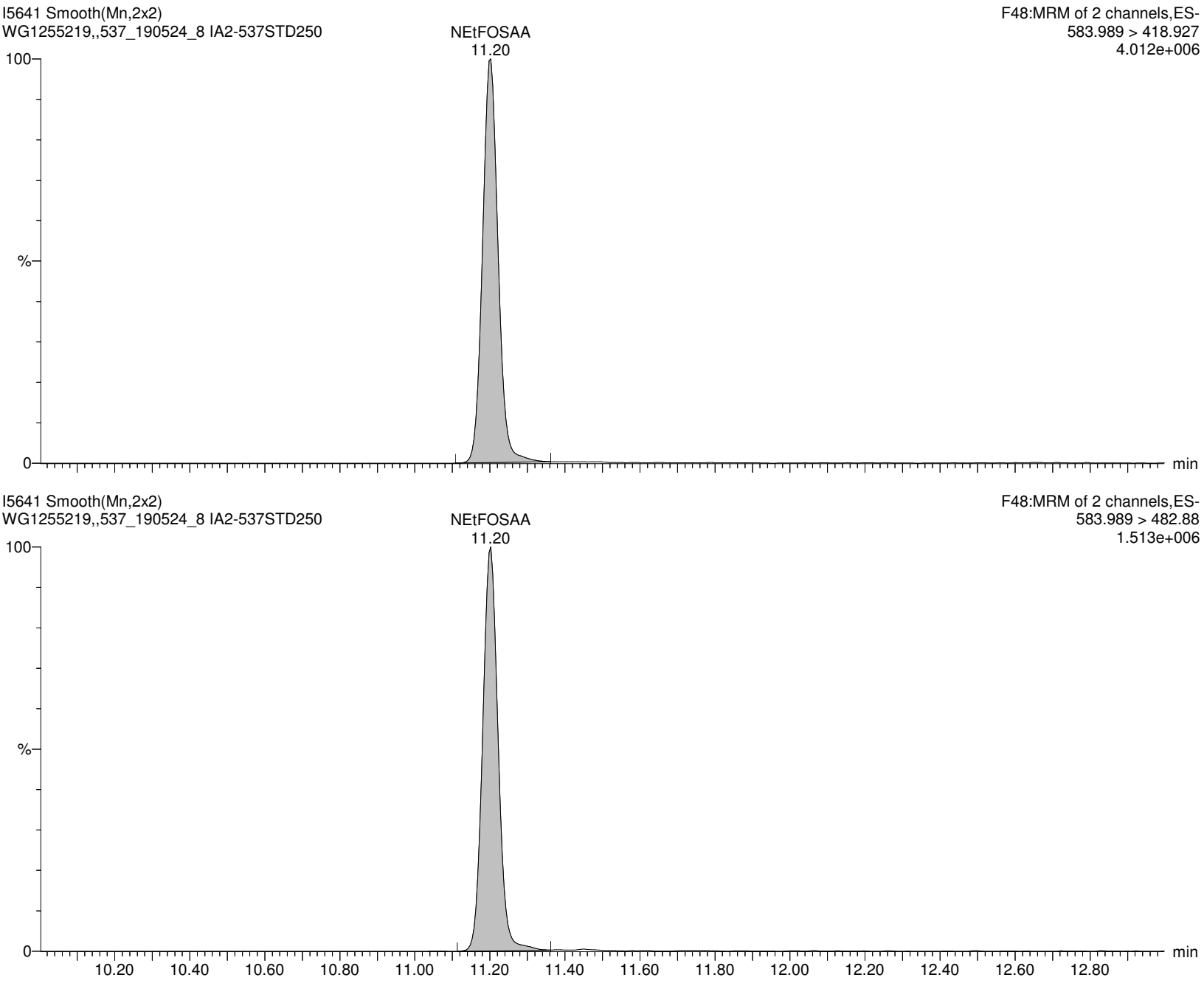


all concentration units in (ng/mL)

Alpha Analytical Inc.
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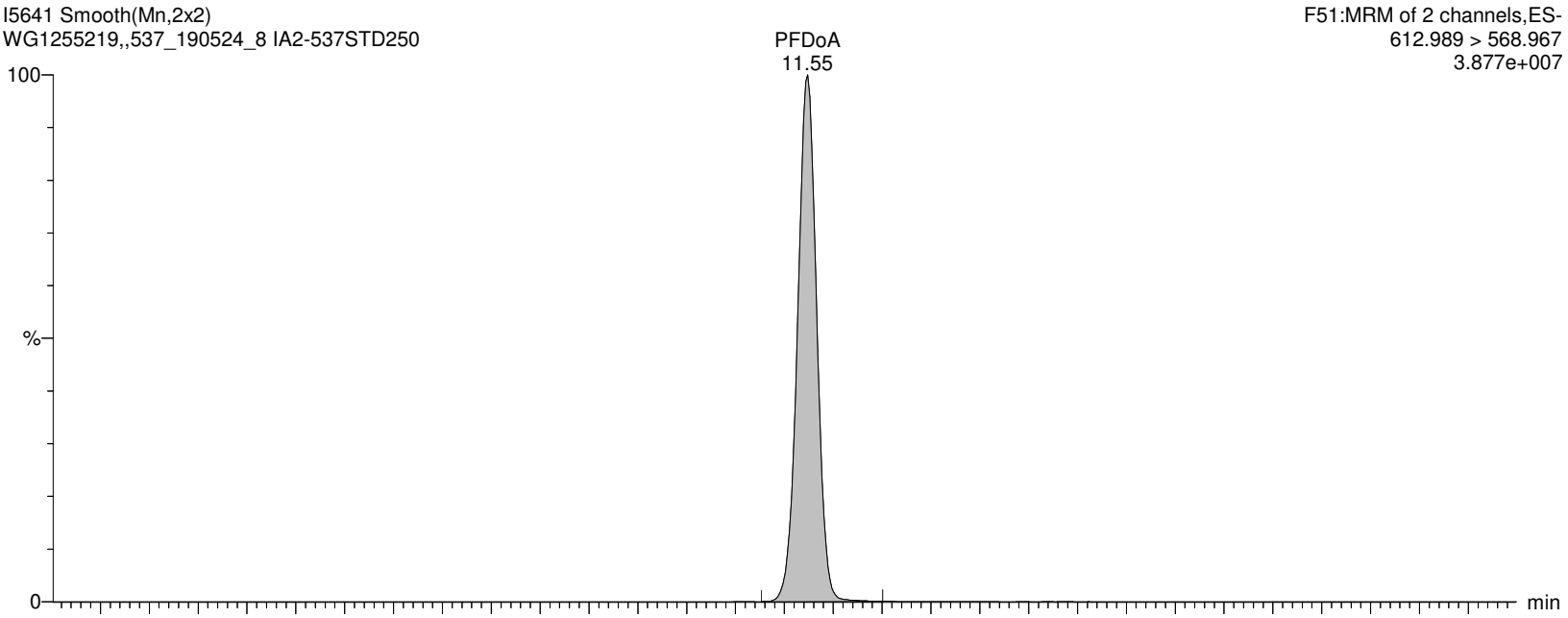


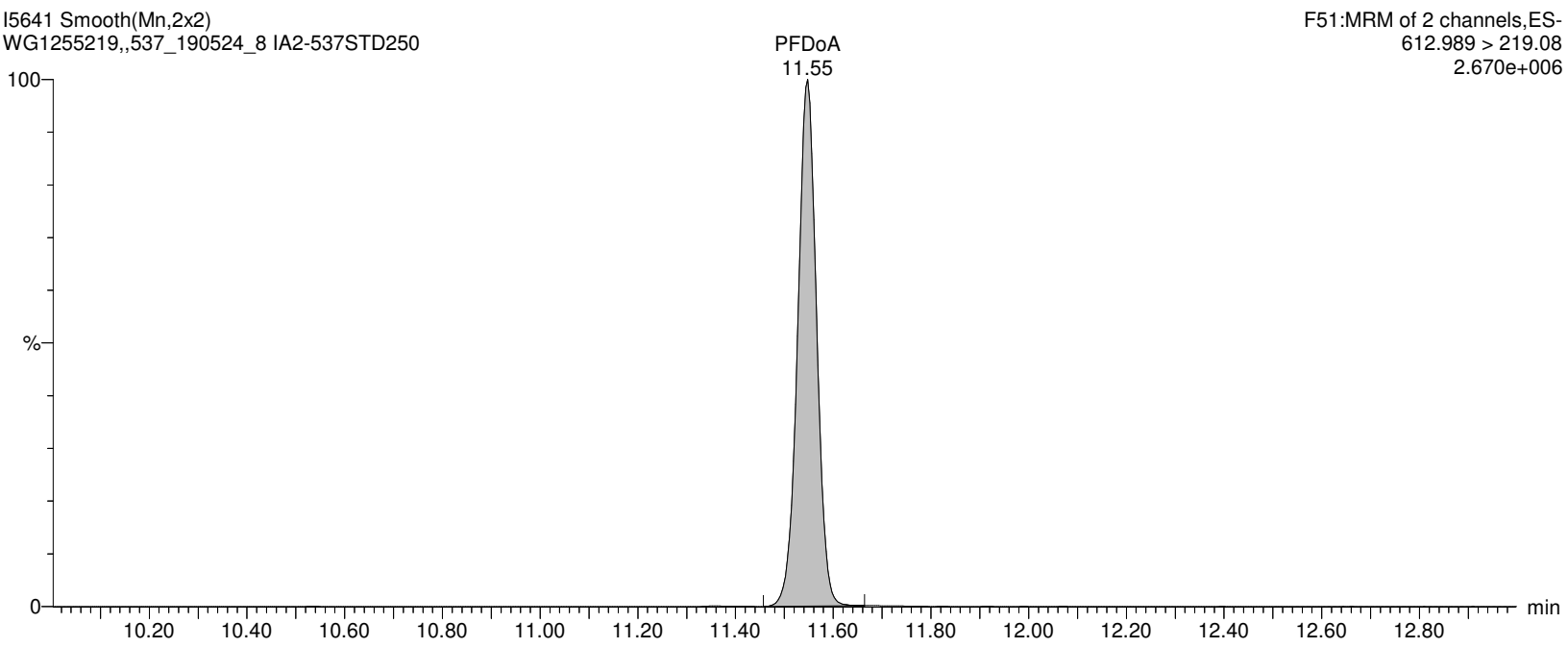
all concentration units in (ng/mL)

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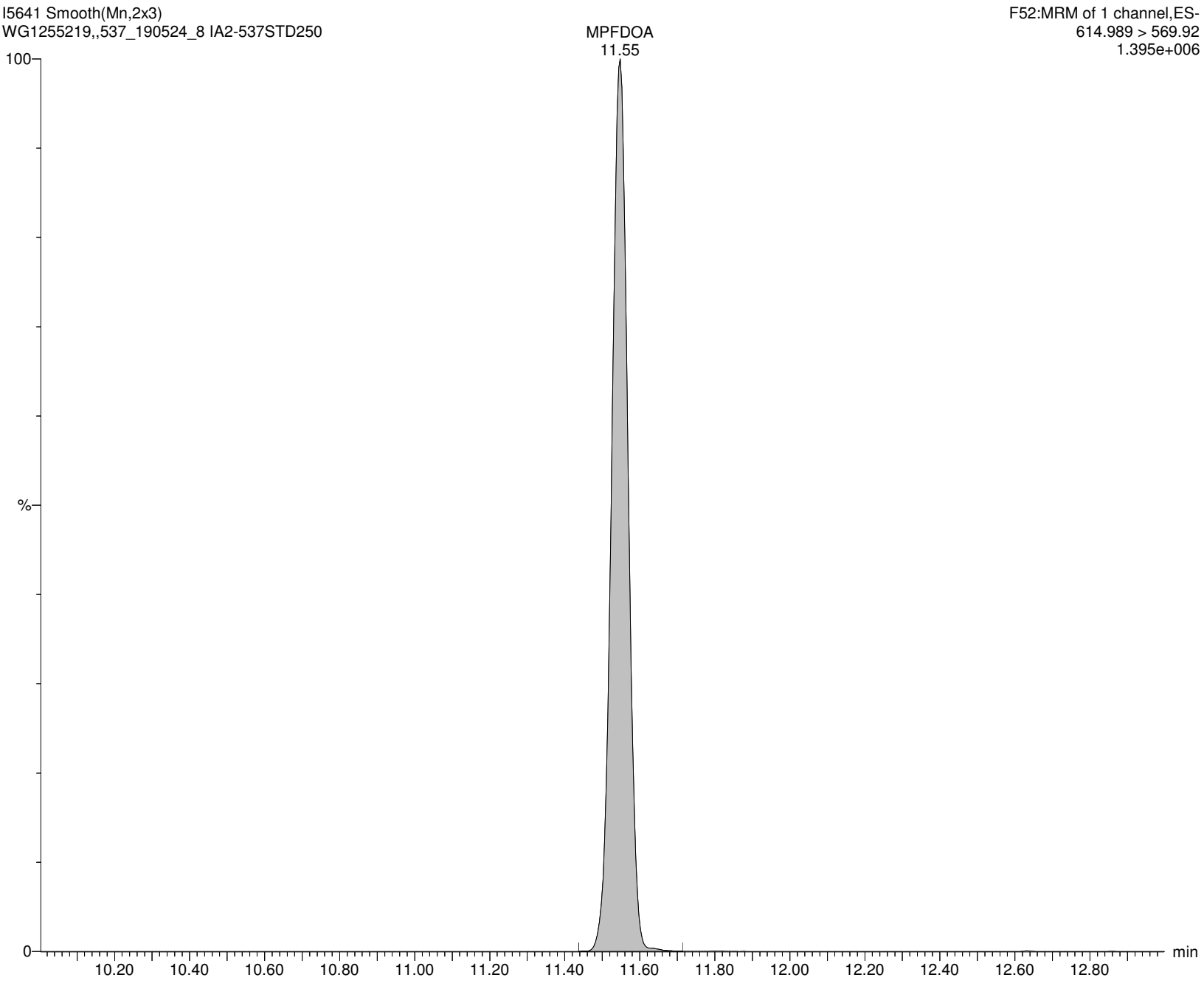


all concentration units in (ng/mL)

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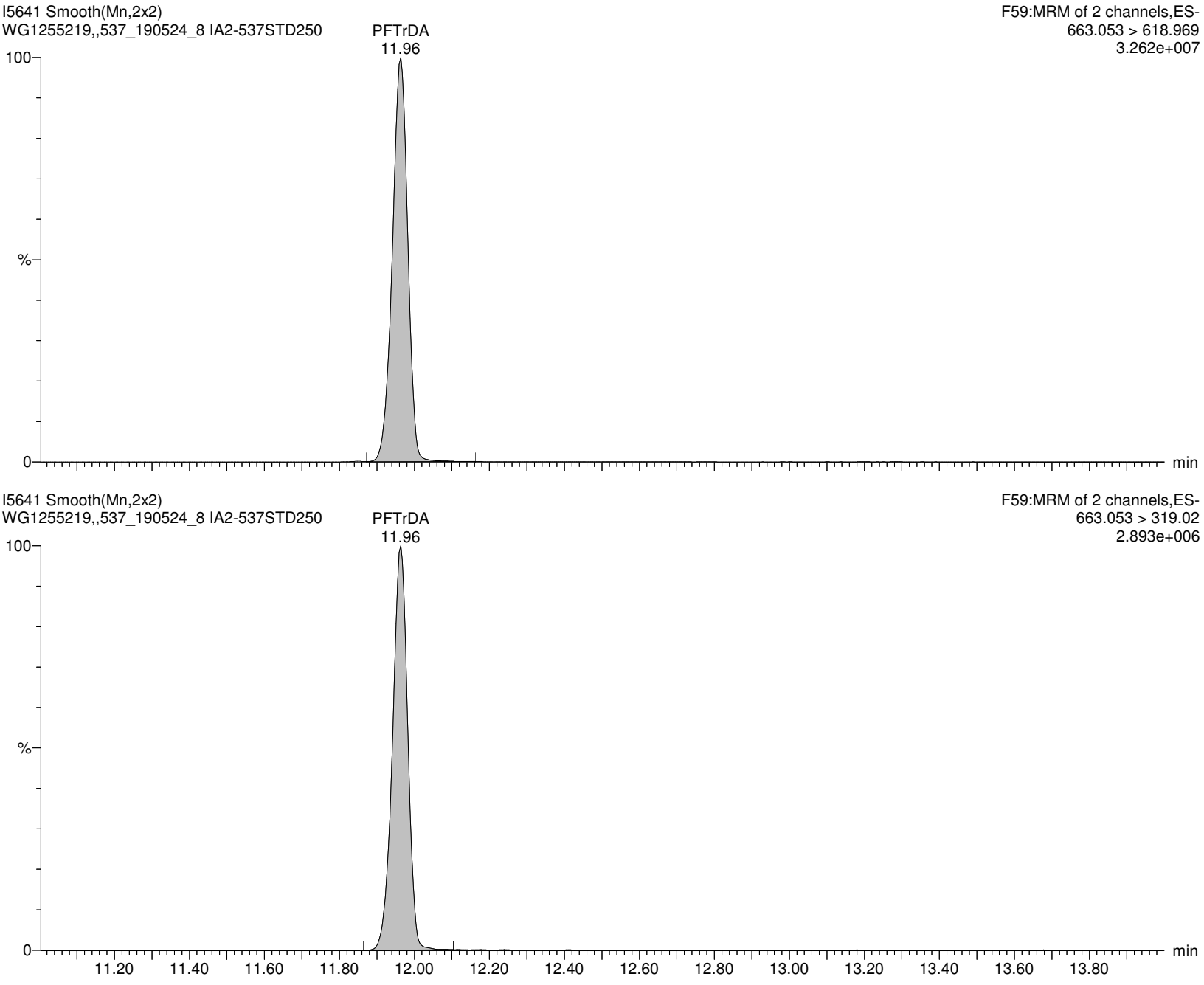


all concentration units in (ng/mL)

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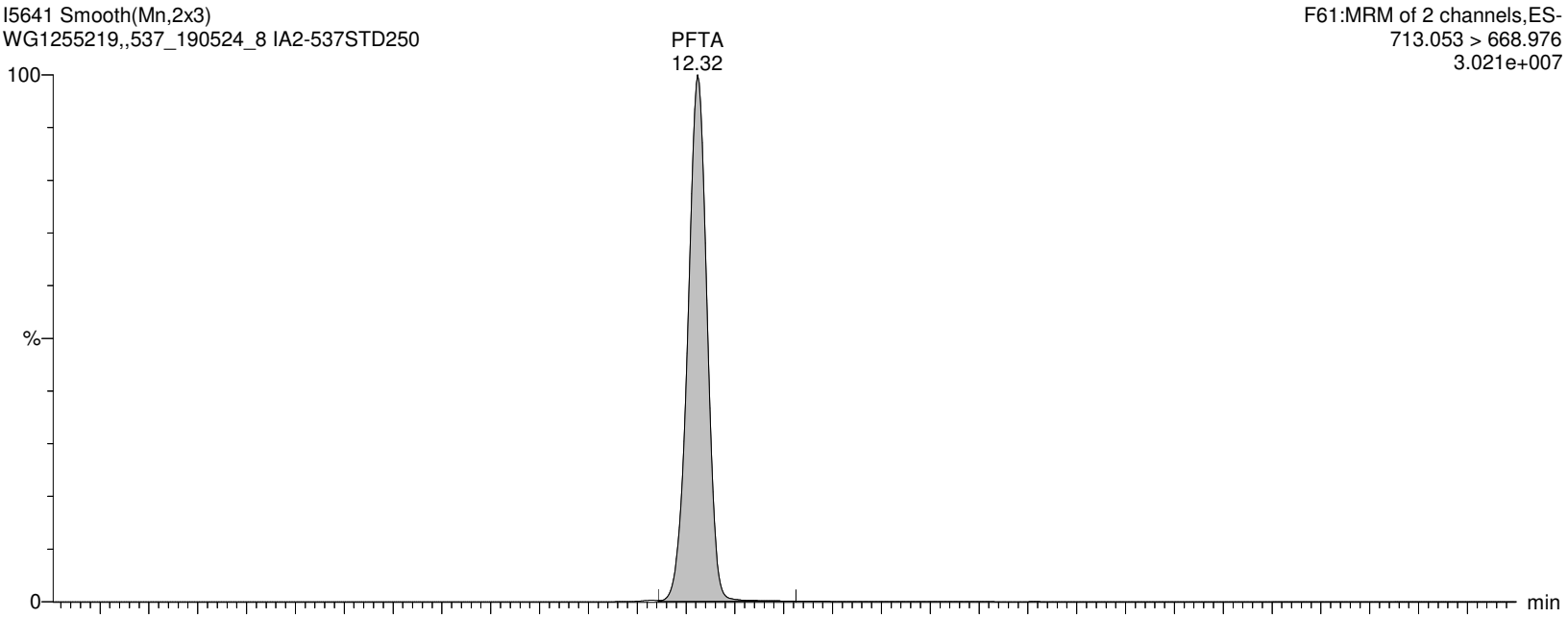


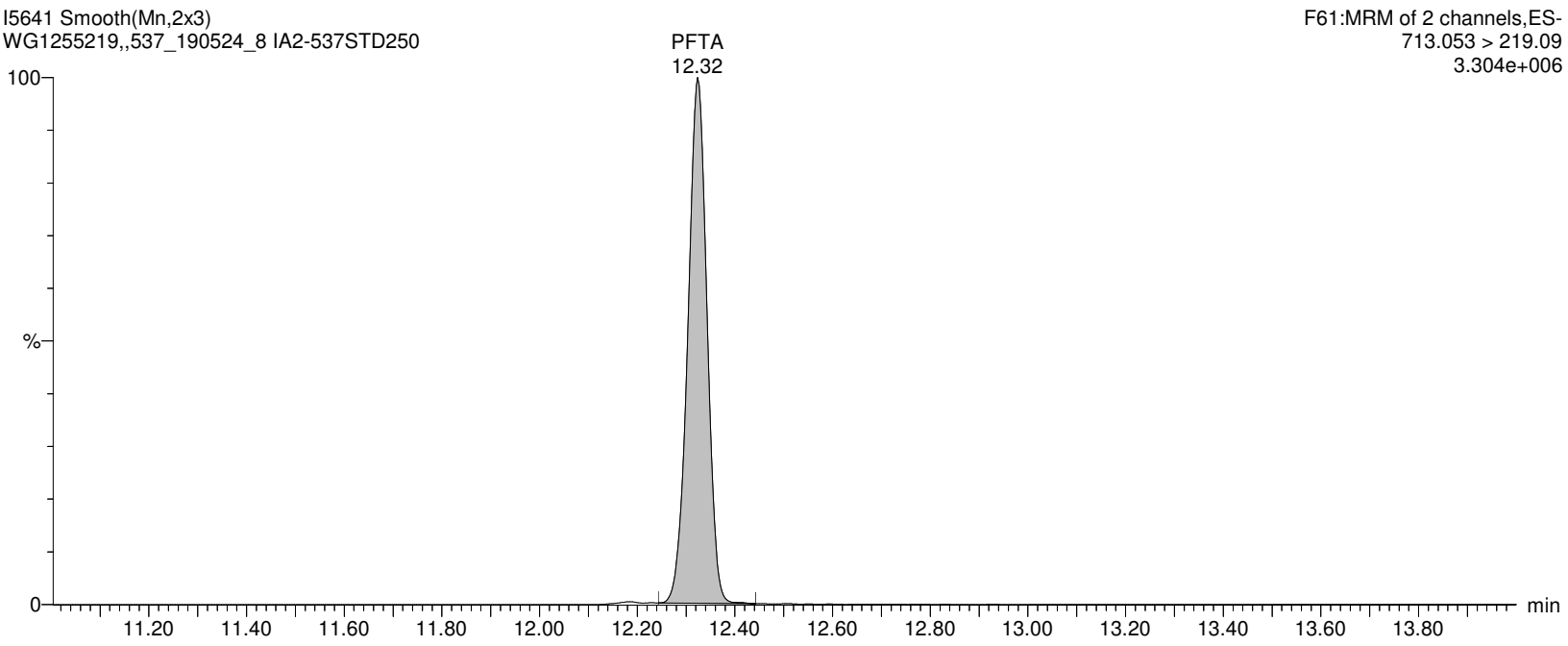
all concentration units in (ng/mL)

Alpha Analytical Inc.
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PFTA



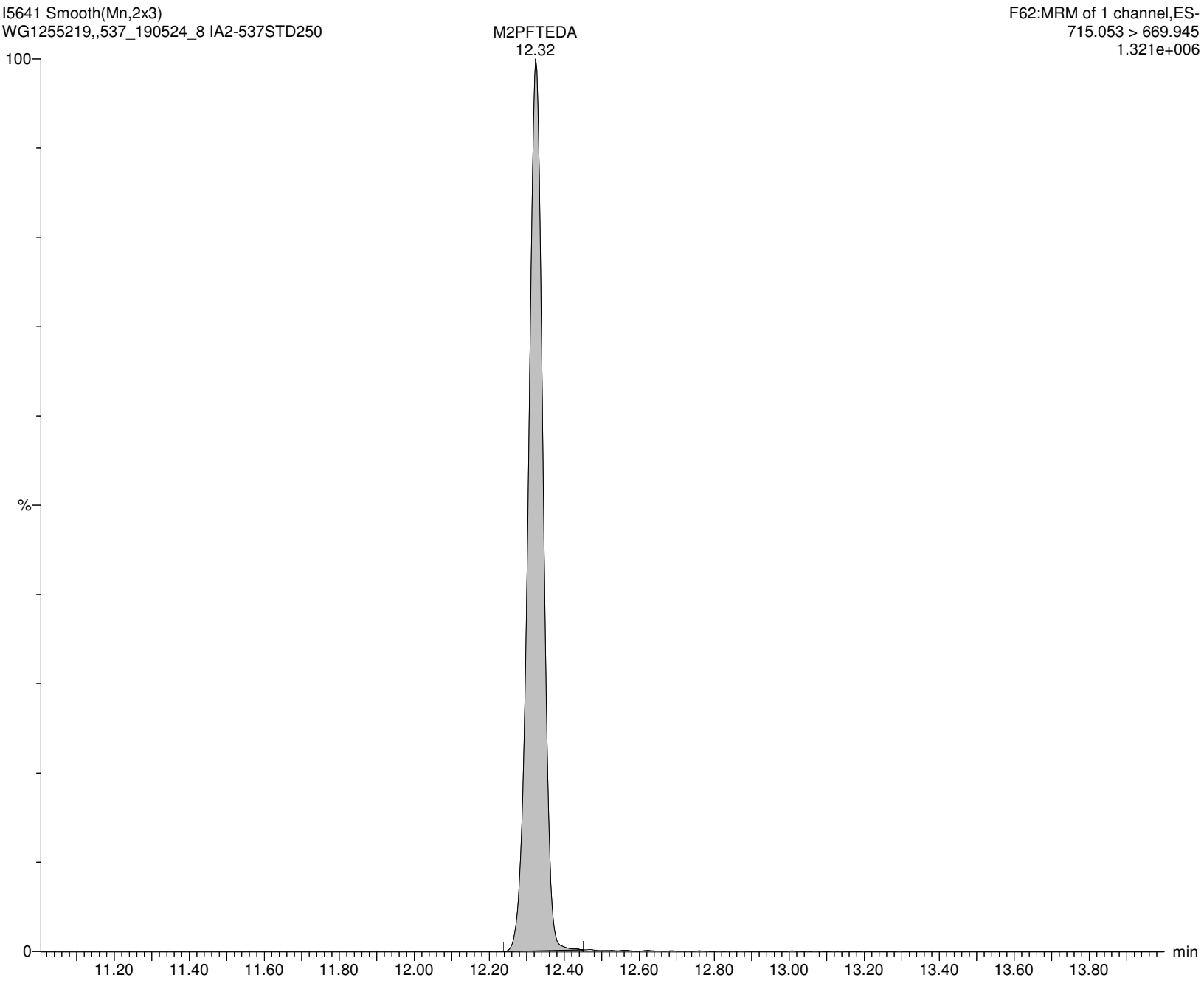


all concentration units in (ng/mL)

Alpha Analytical Inc.
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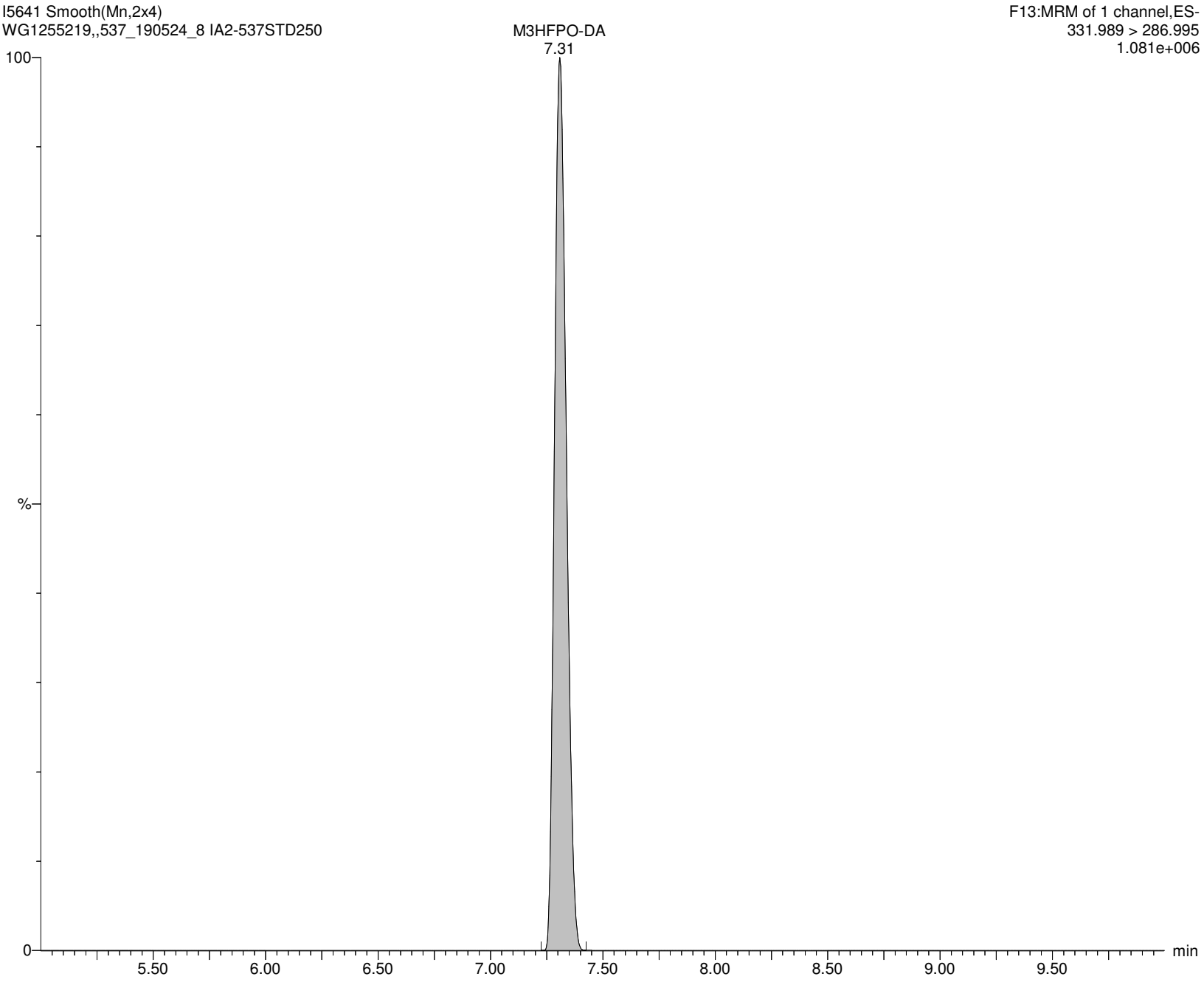


all concentration units in (ng/mL)

Alpha Analytical Inc.
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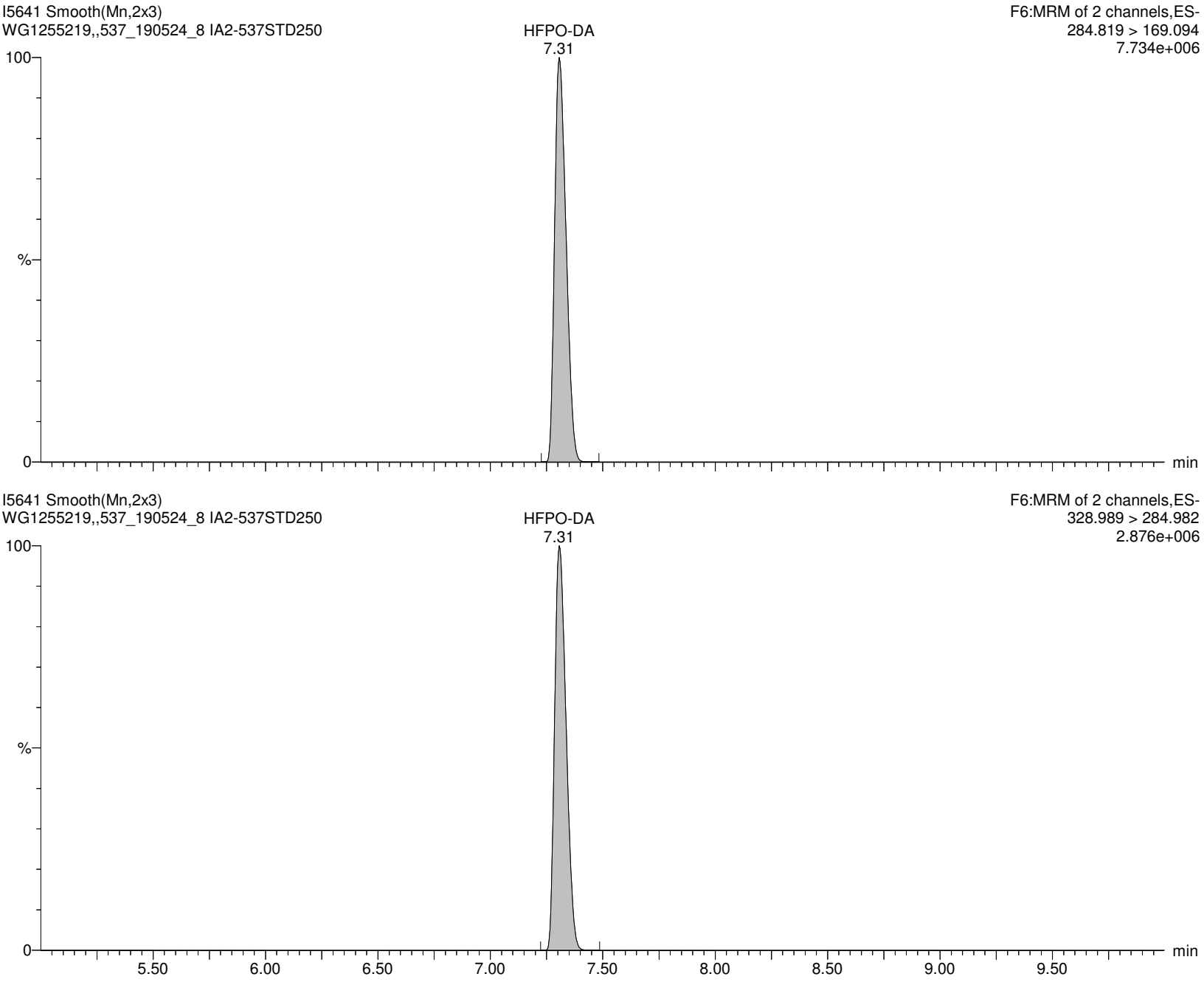


all concentration units in (ng/mL)

Alpha Analytical Inc.
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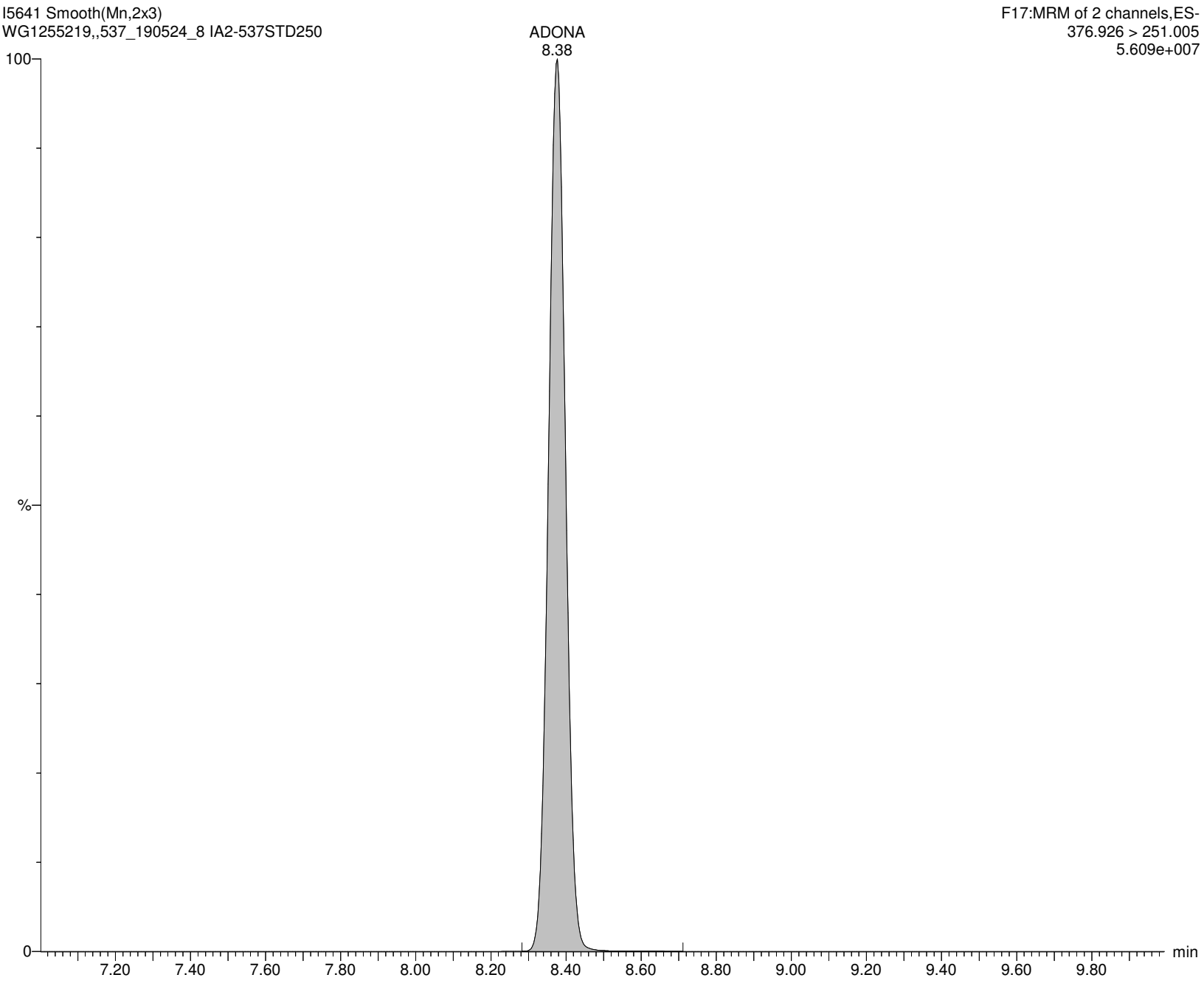


all concentration units in (ng/mL)

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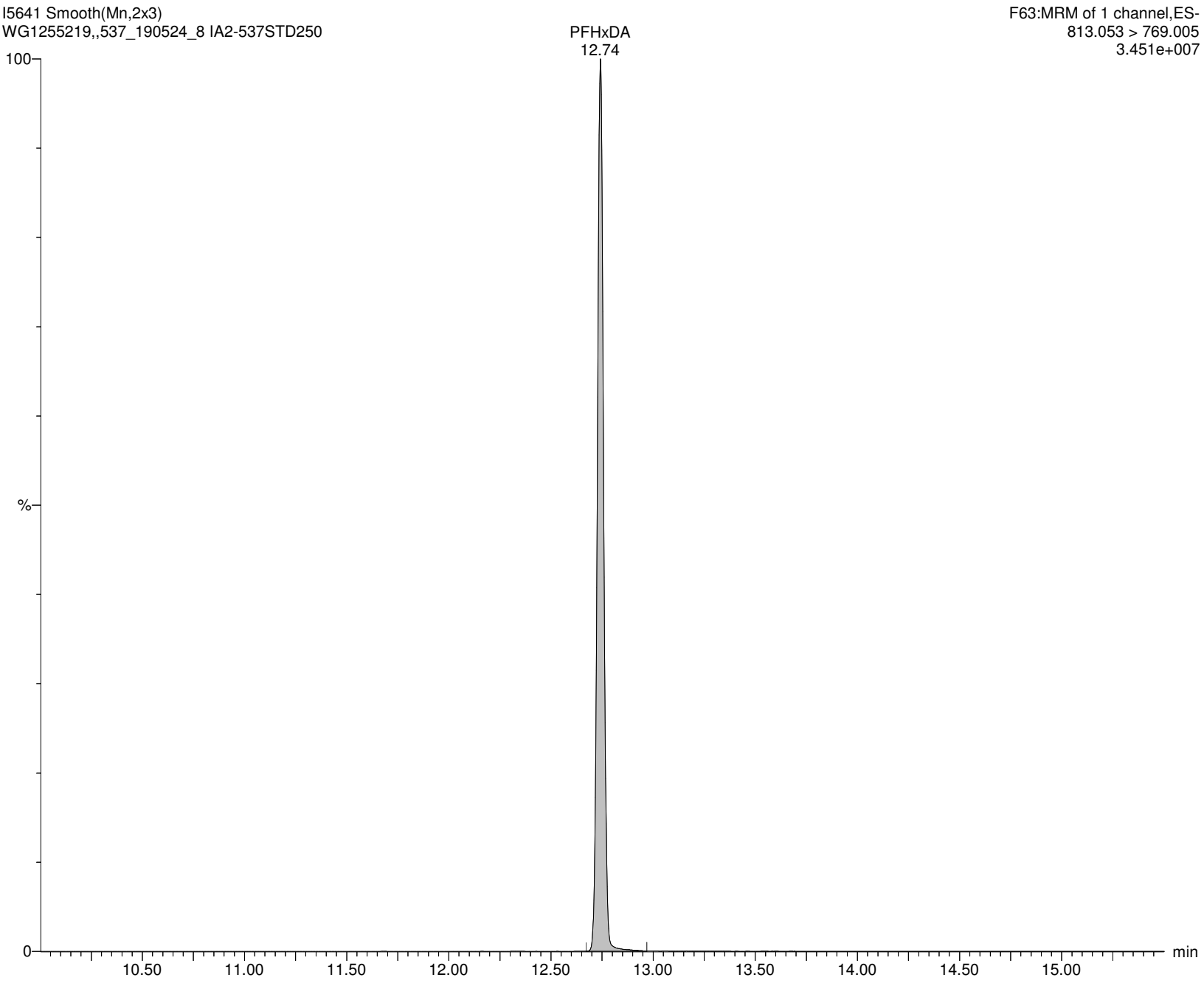


all concentration units in (ng/mL)

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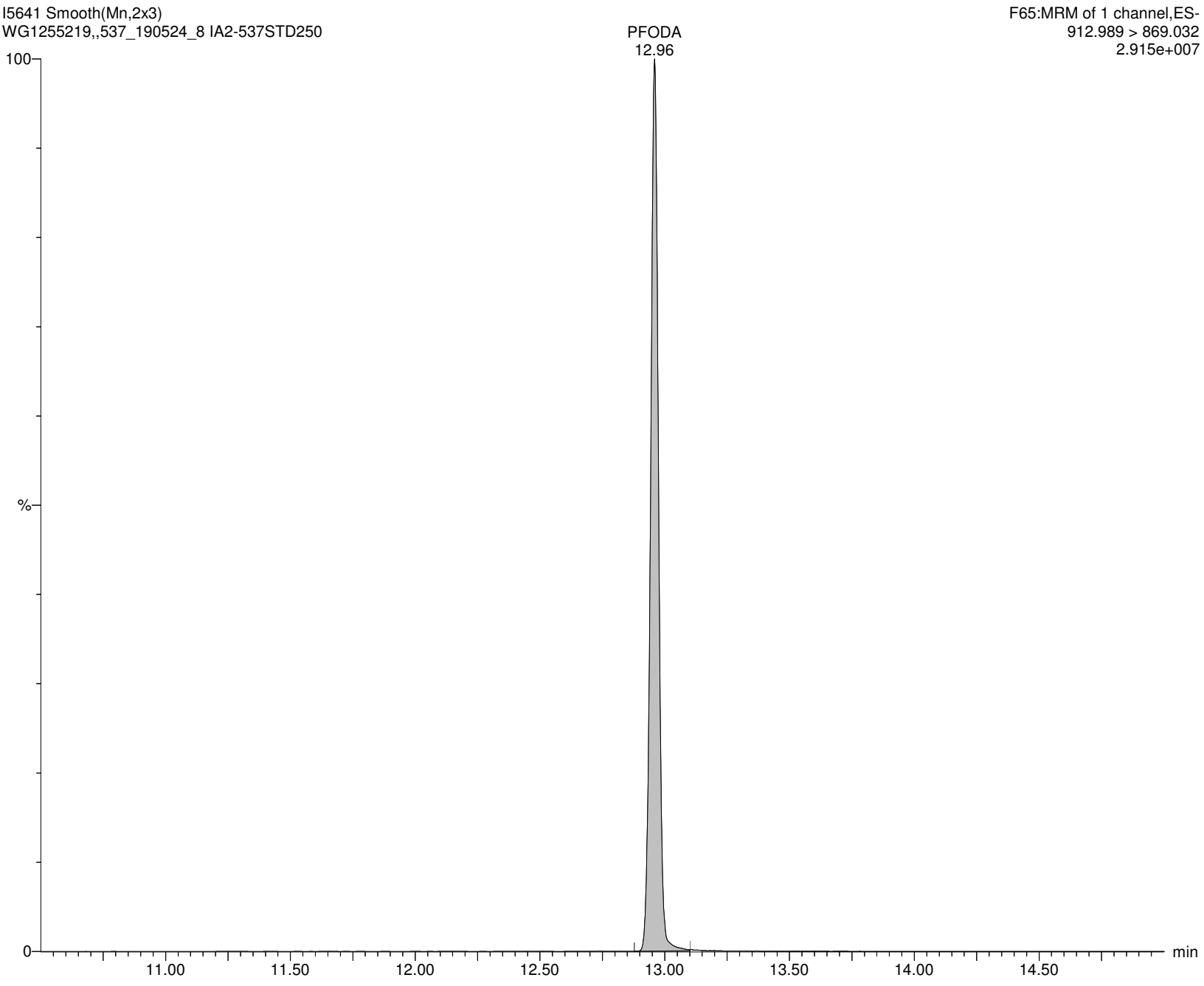


all concentration units in (ng/mL)

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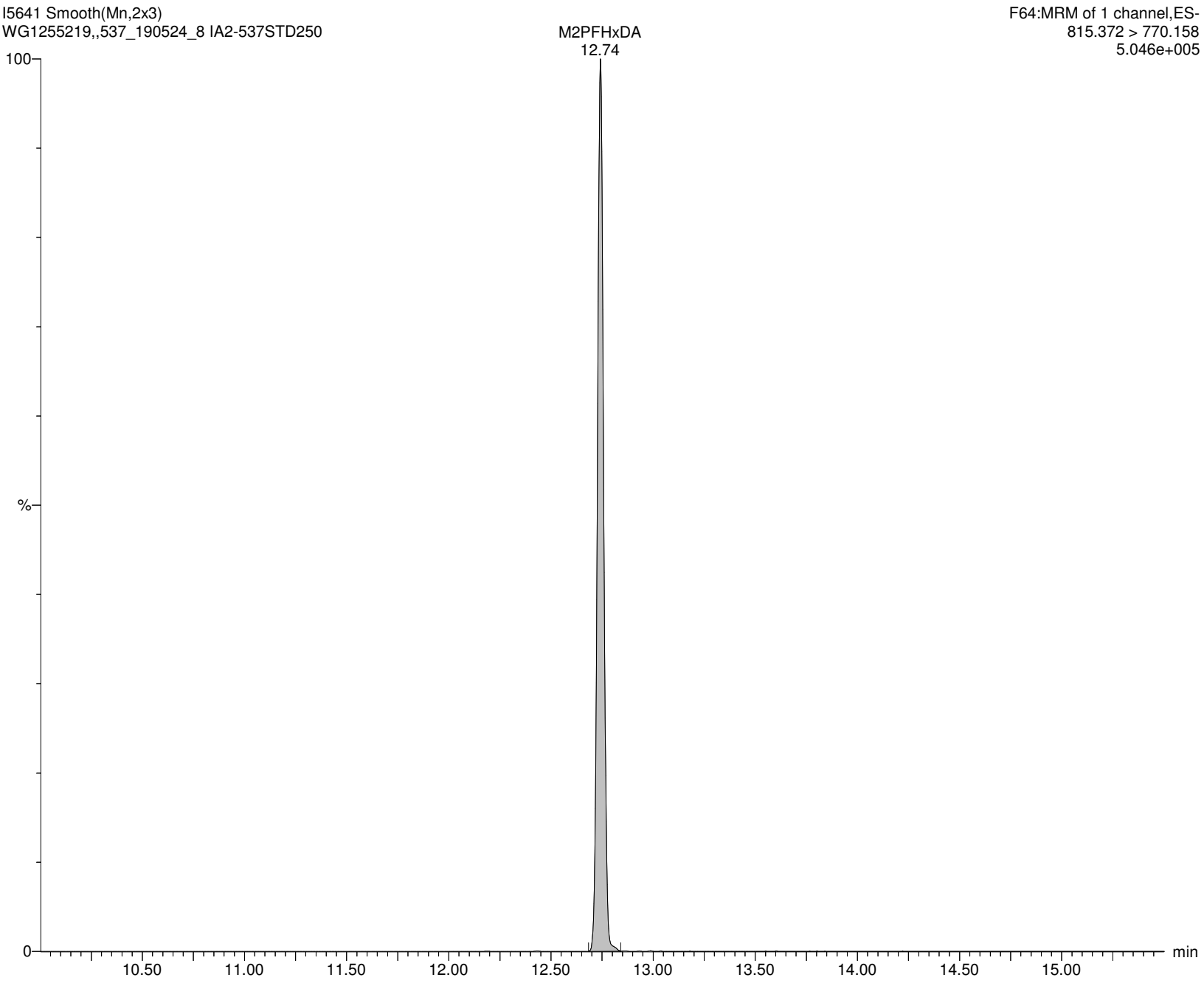


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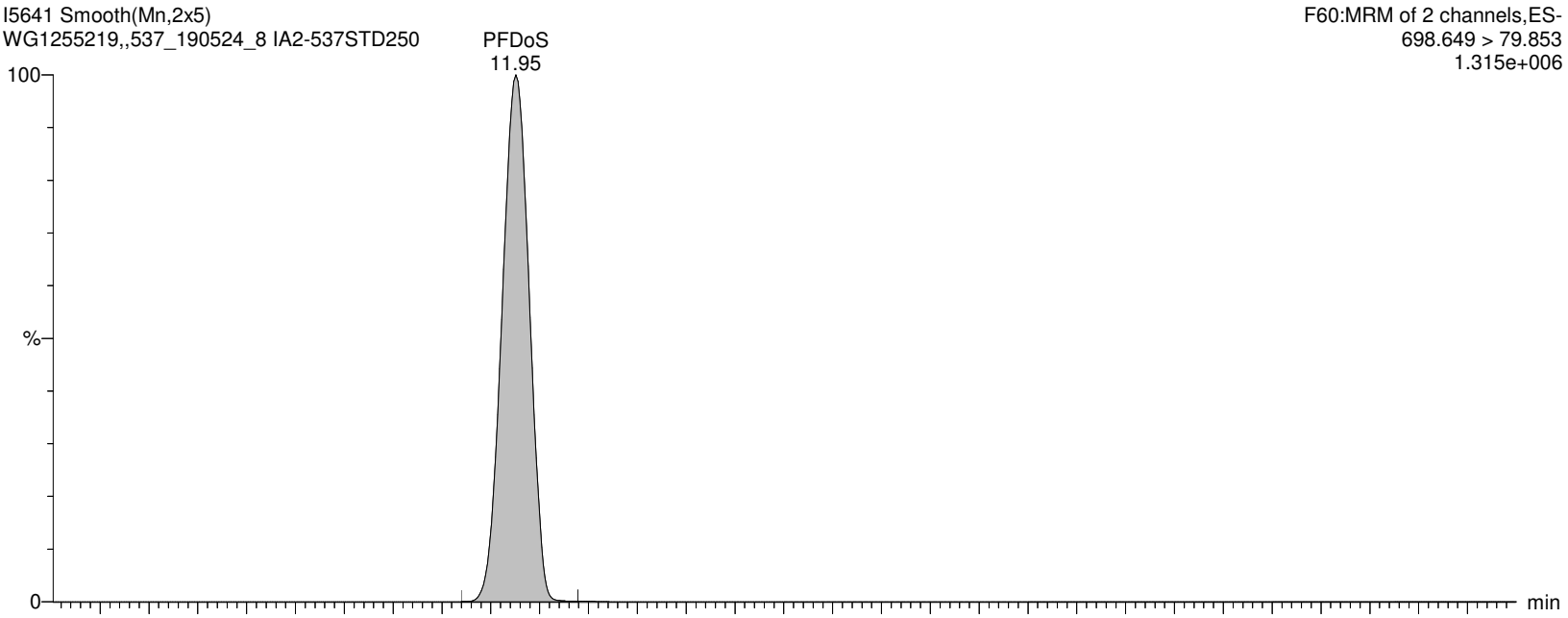


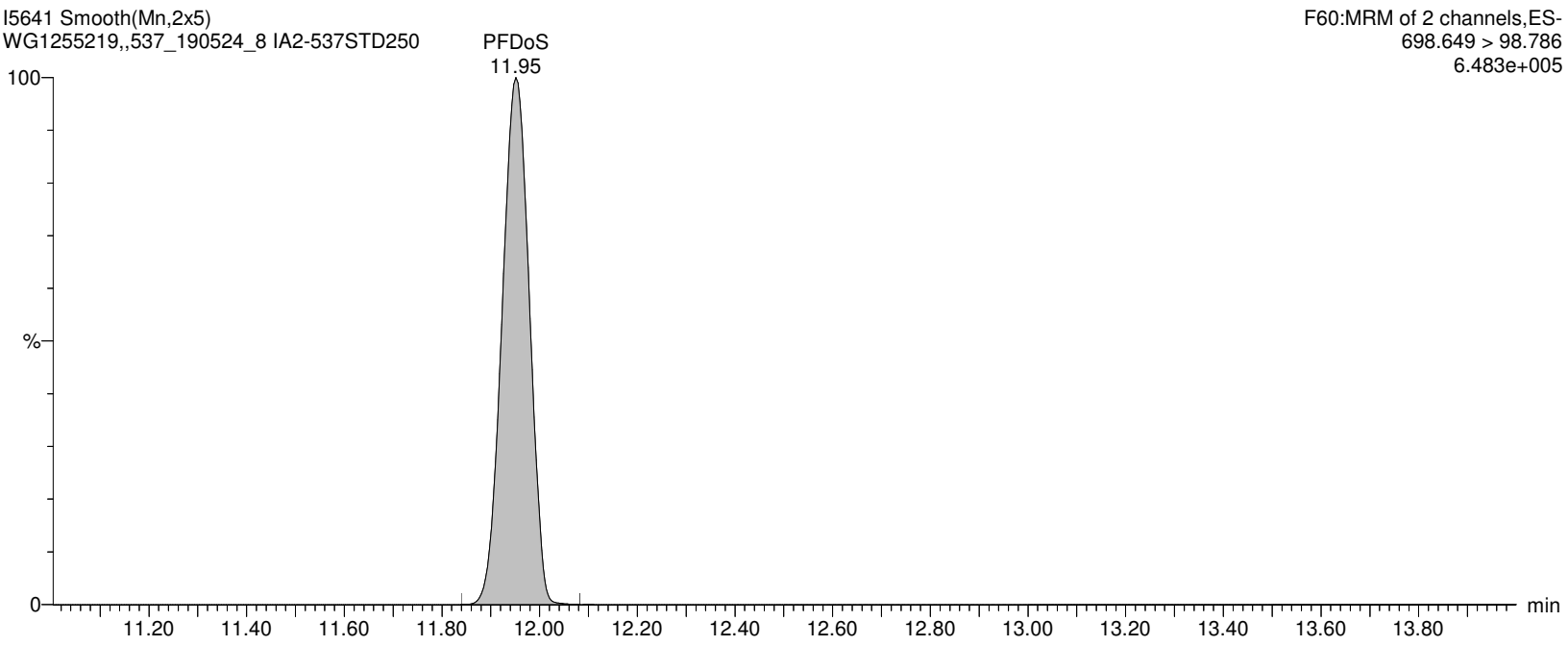
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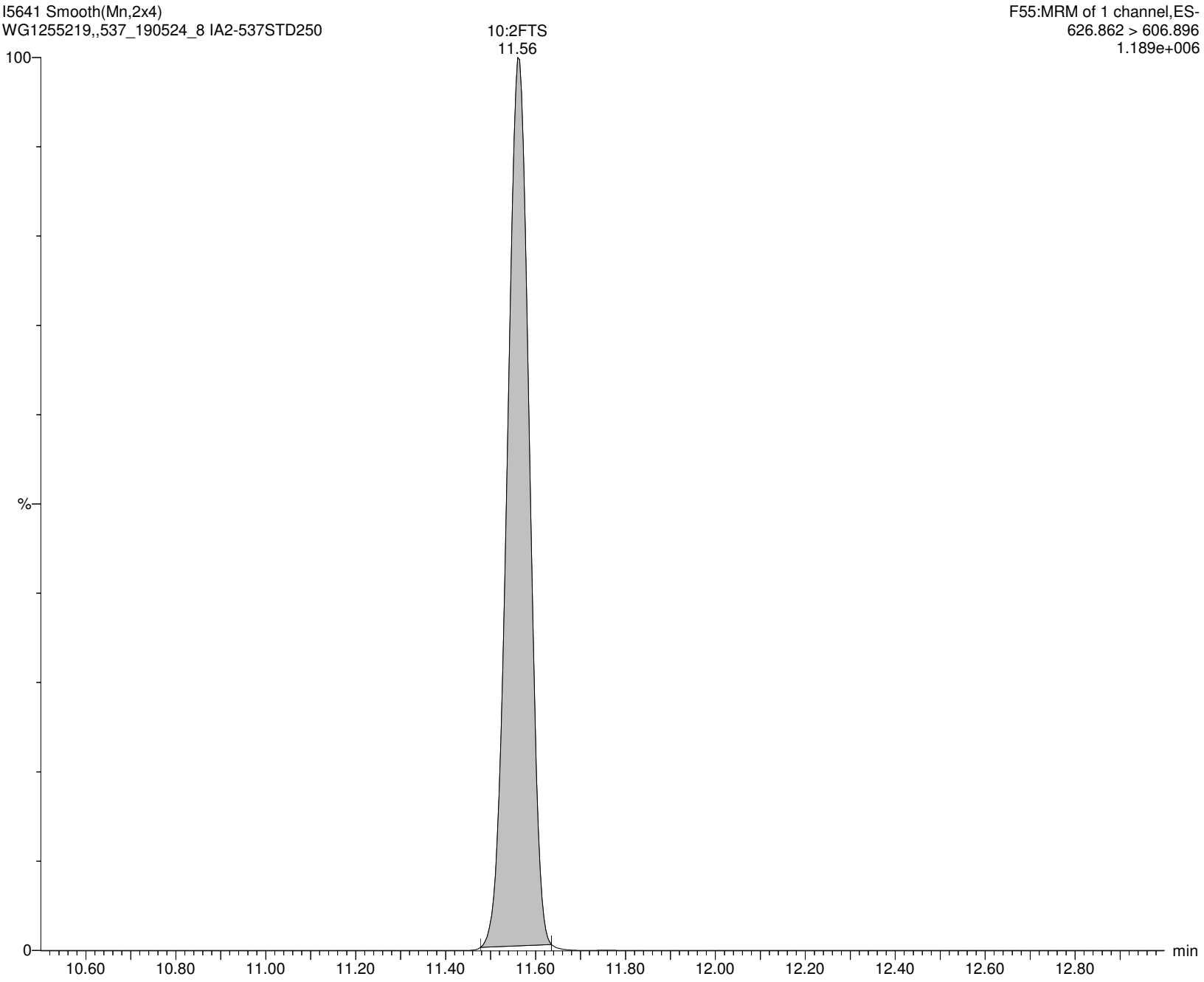


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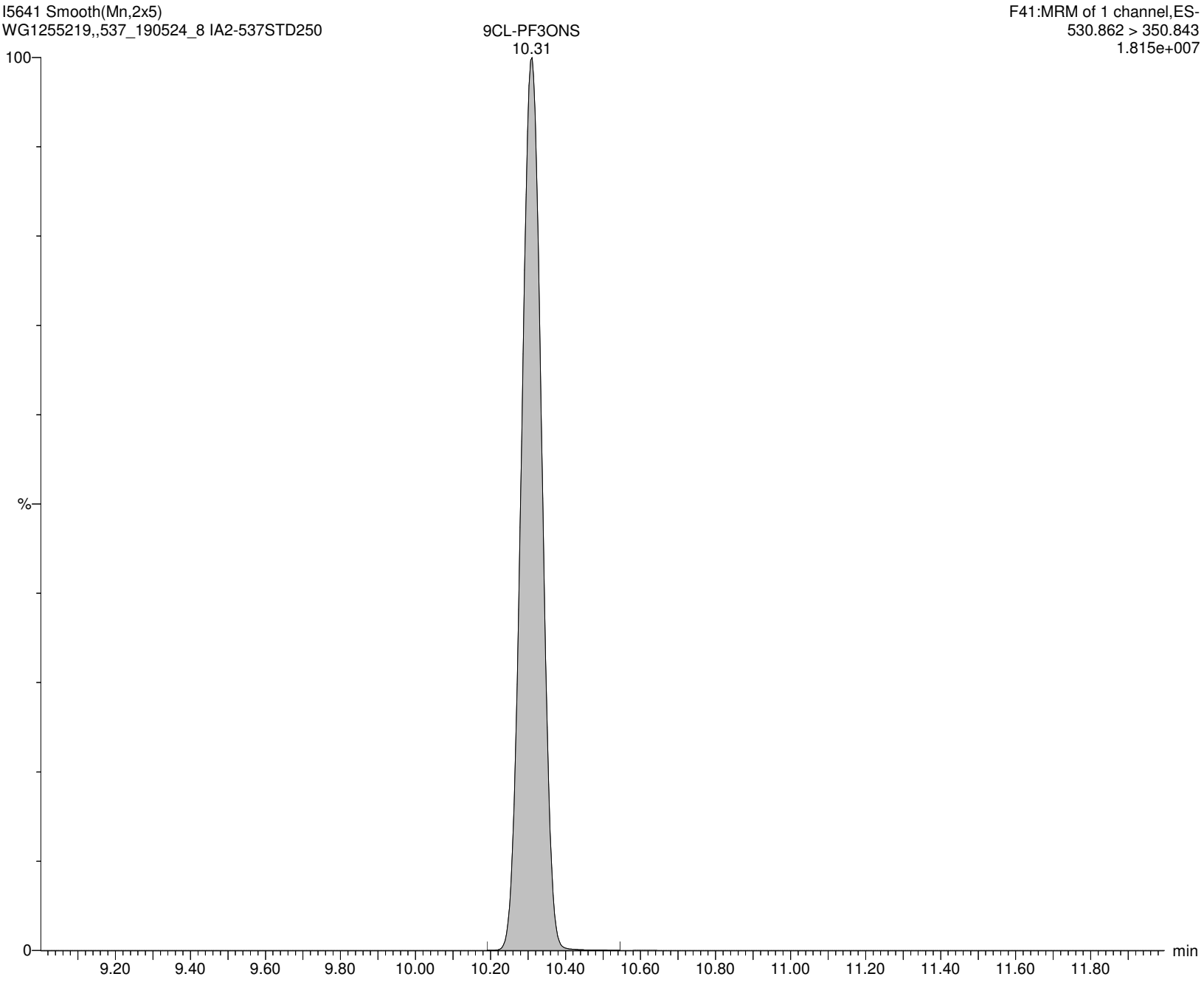


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:08:43 Eastern Daylight Time

Name: I5641
ID: IA2-537STD250
Date: 01-Jul-2019
Time: 19:53:14
Description: WG1255219,,537_190524_8
User: LCMS02:JW
Vial: 1:B,1
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\181009_TUNE.IPR
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9CL-PF3ONS

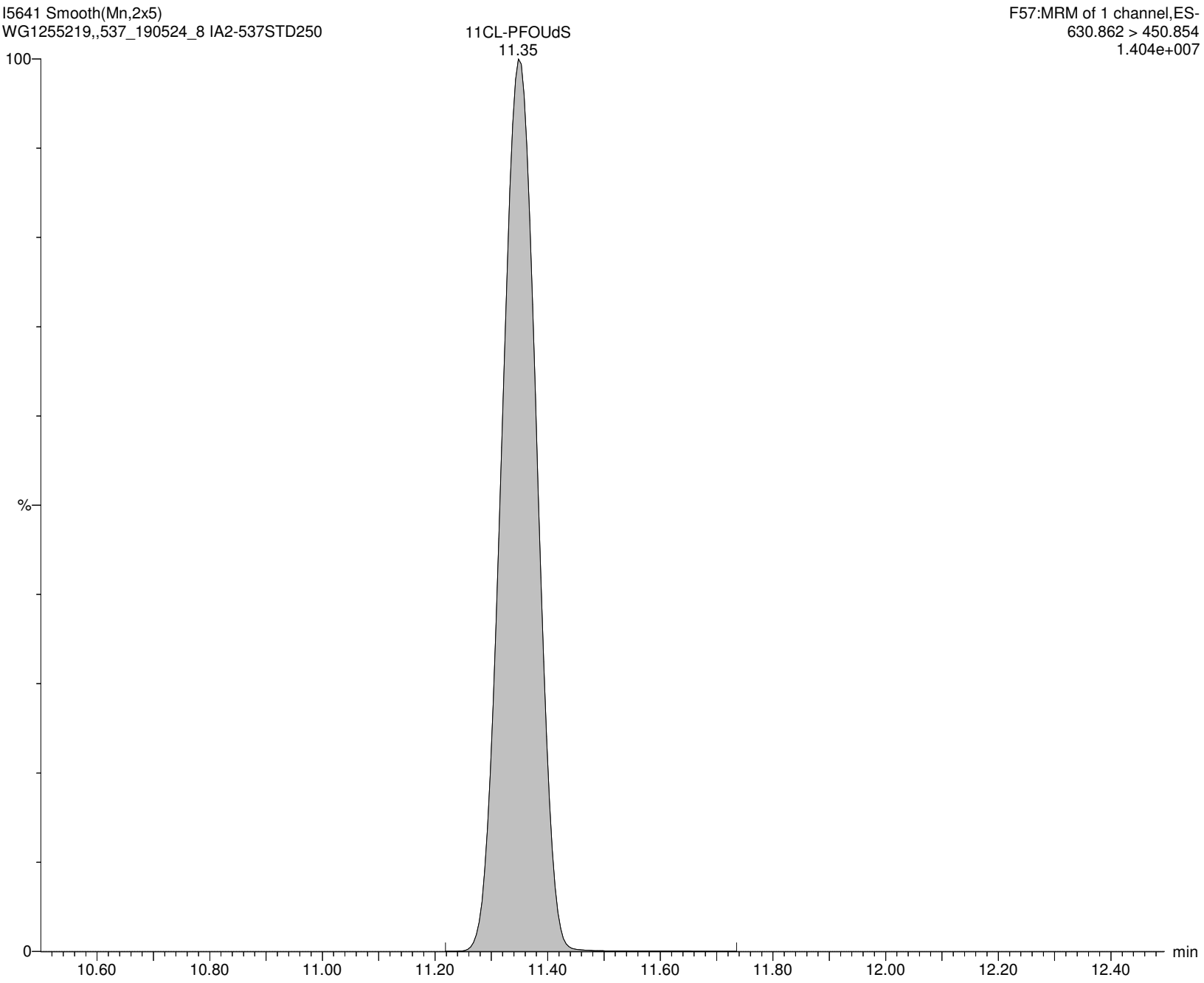


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
Last Altered: Tuesday, July 02, 2019 11:07:37 Eastern Daylight Time
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ID: IA2-537STD250
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11CL-PFOUdS

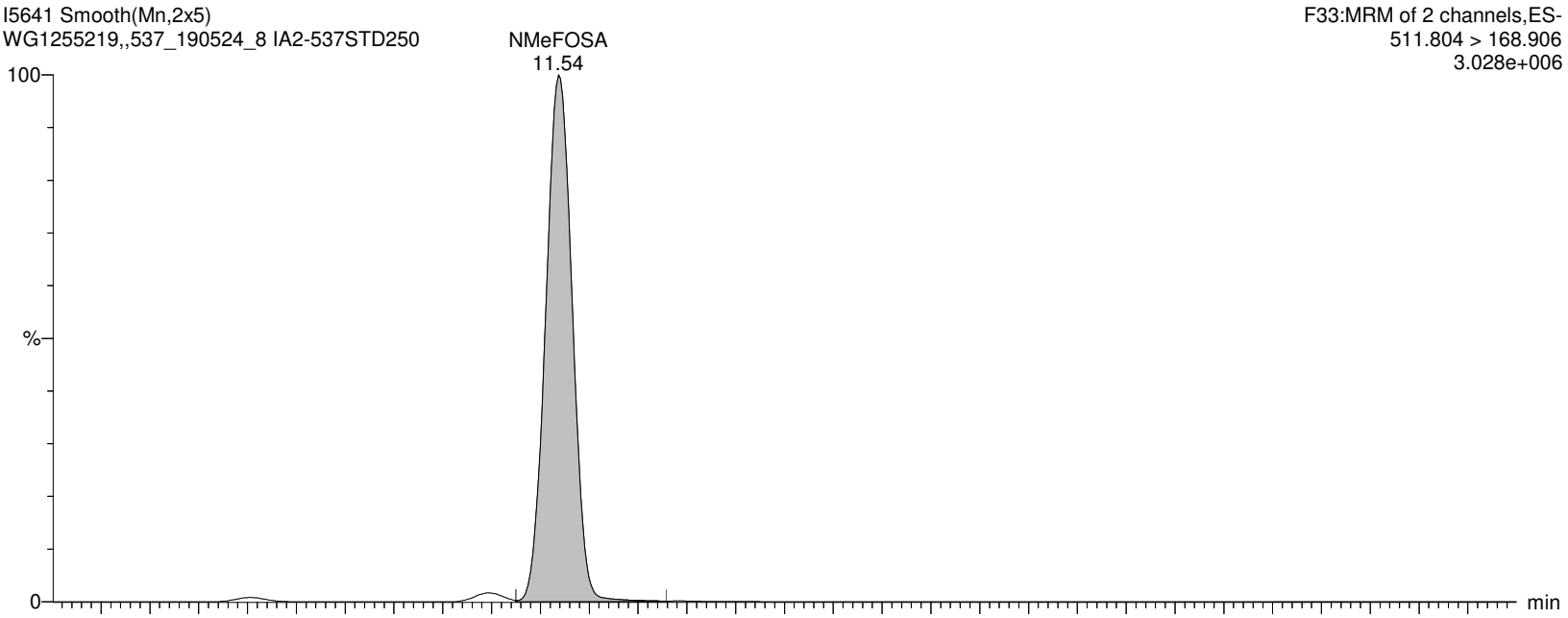


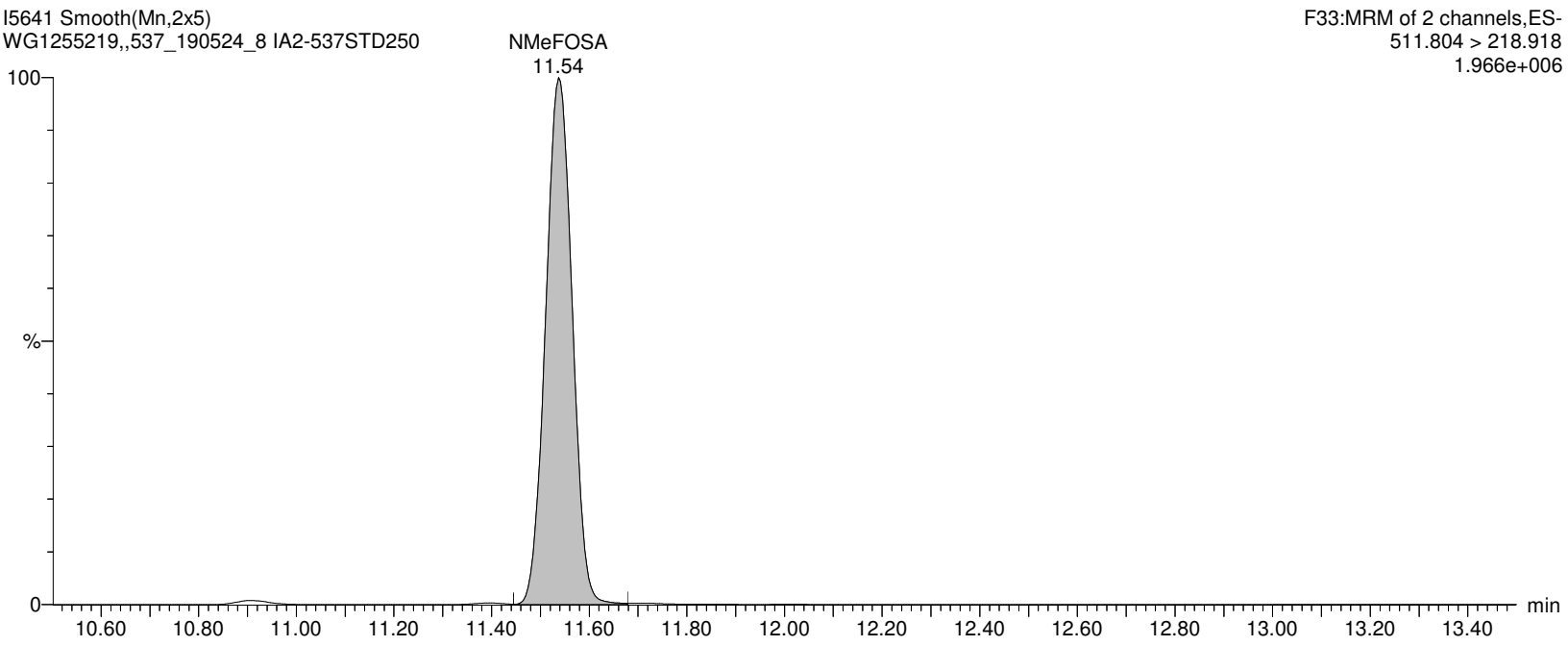
all concentration units in (ng/mL)

Alpha Analytical Inc.
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NMeFOSA



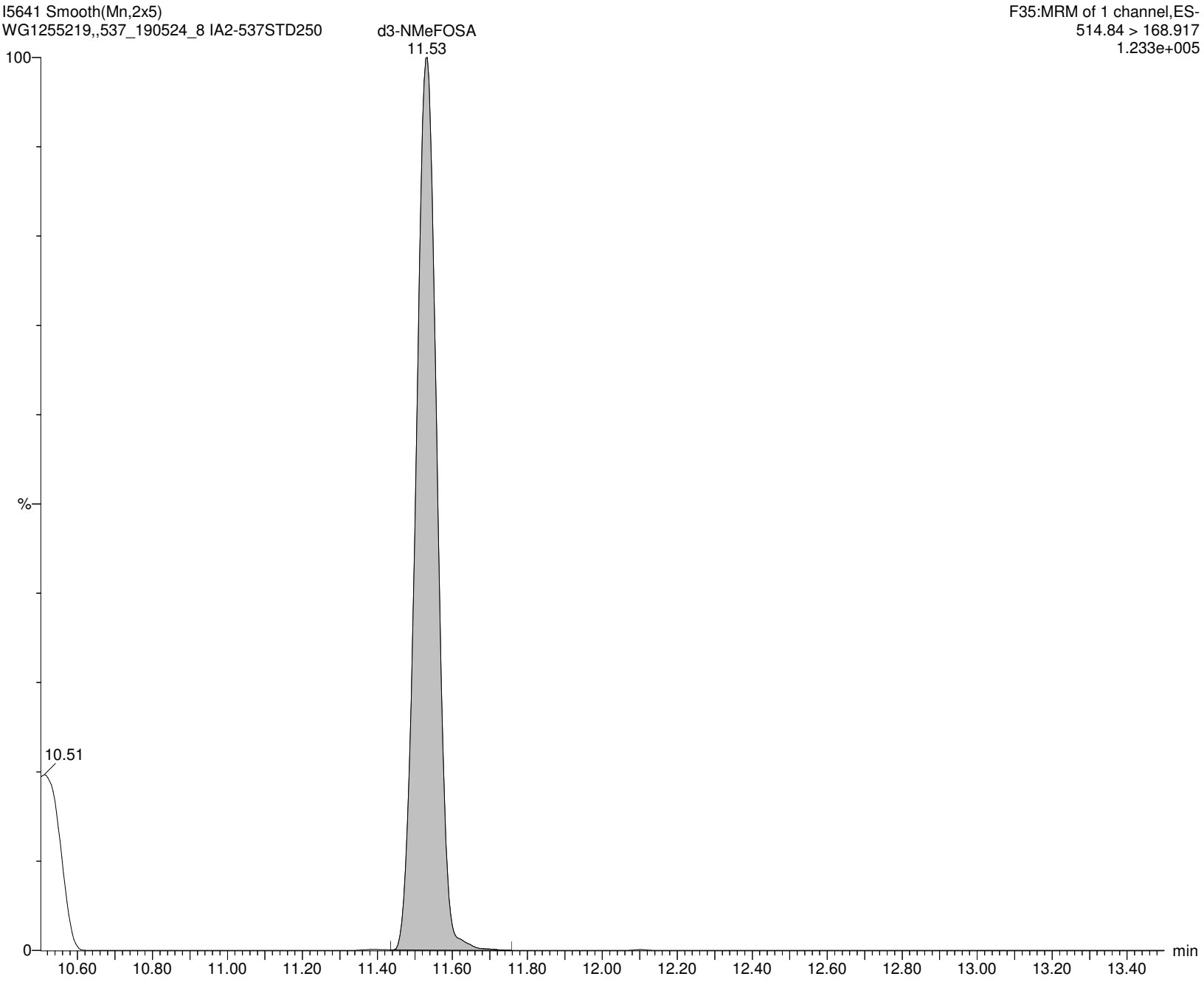


all concentration units in (ng/mL)

Alpha Analytical Inc.
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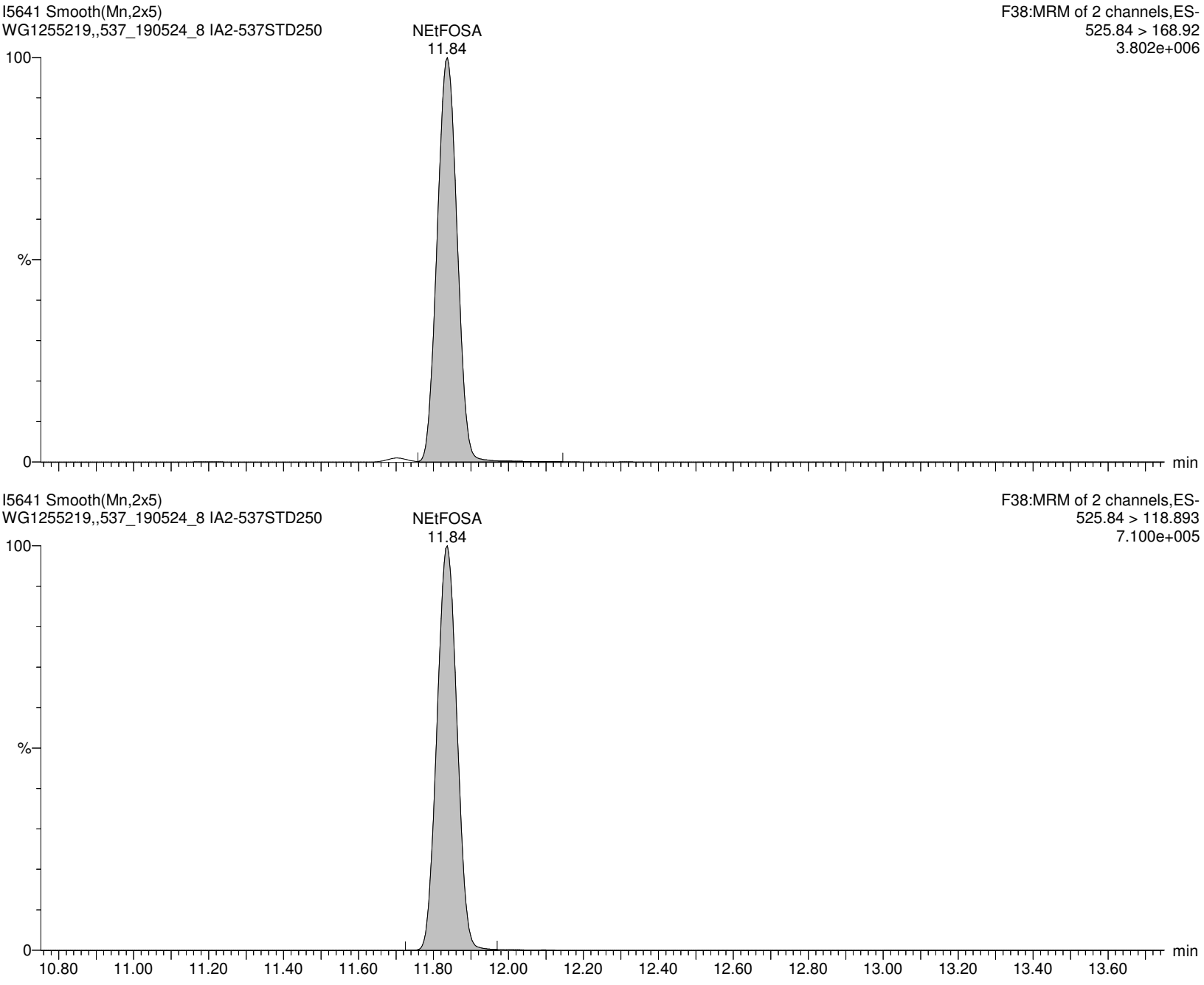


all concentration units in (ng/mL)

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NEtFOSA

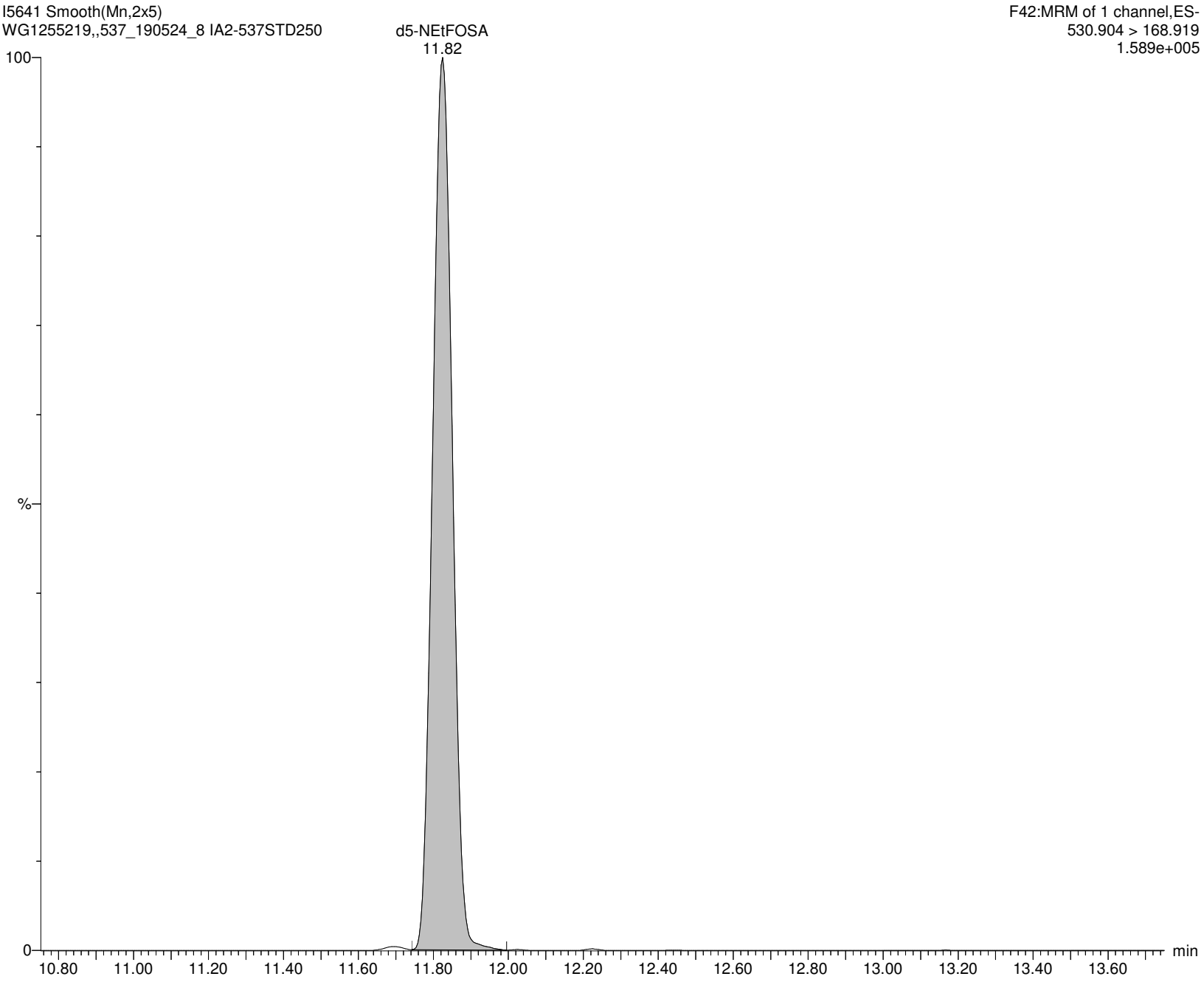


all concentration units in (ng/mL)

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d5-NEtFOSA

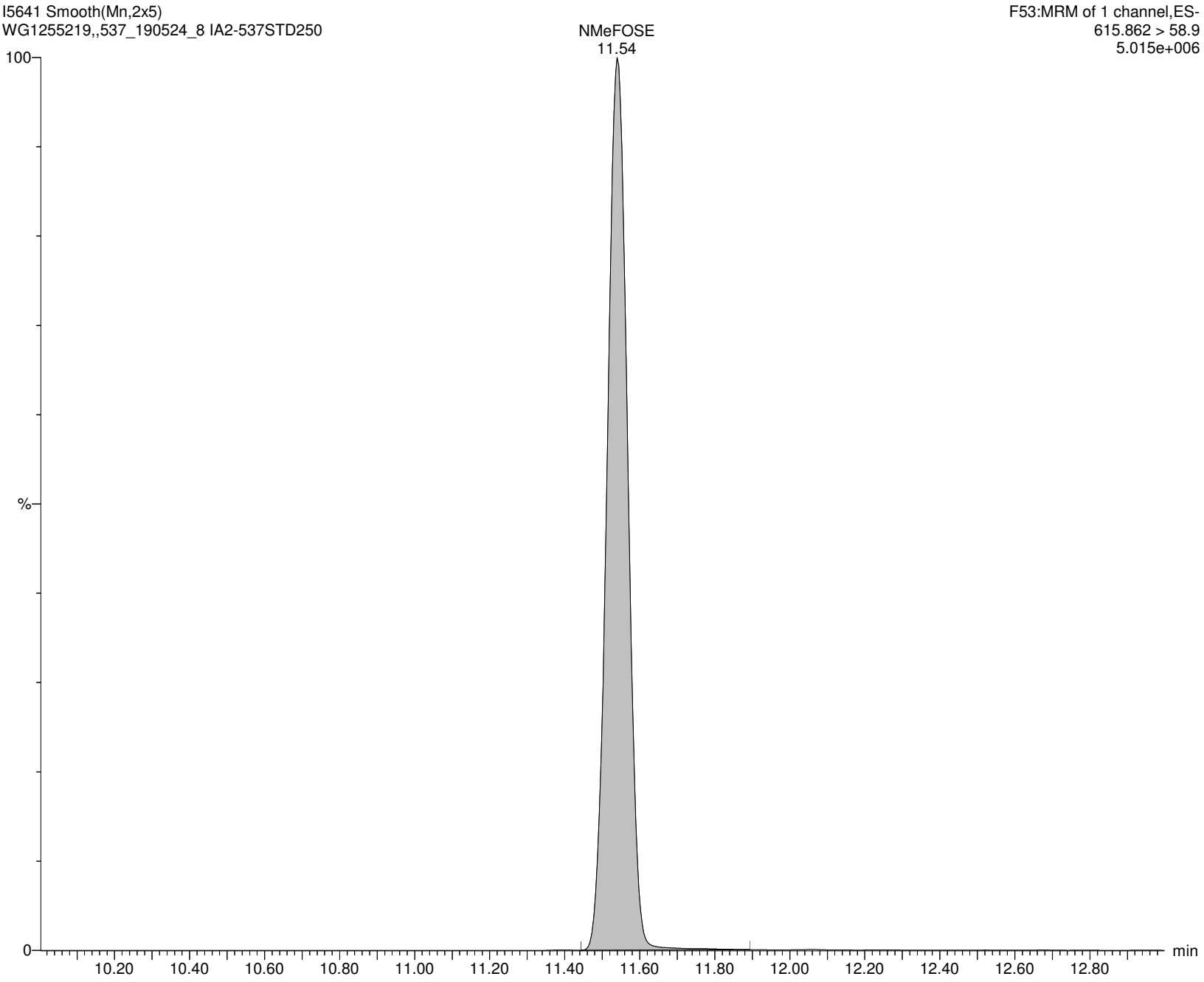


all concentration units in (ng/mL)

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NMeFOSE

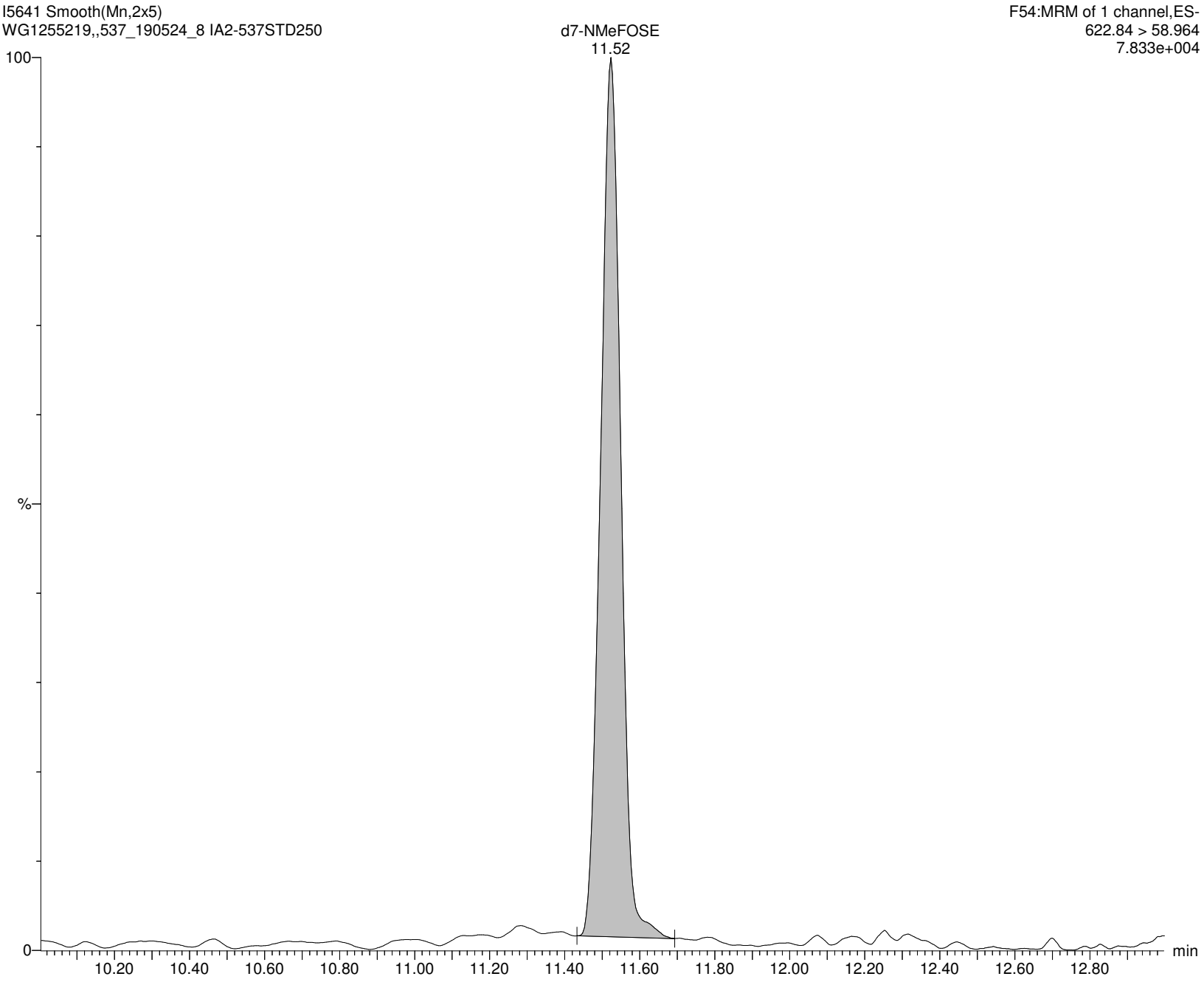


all concentration units in (ng/mL)

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d7-NMeFOSE

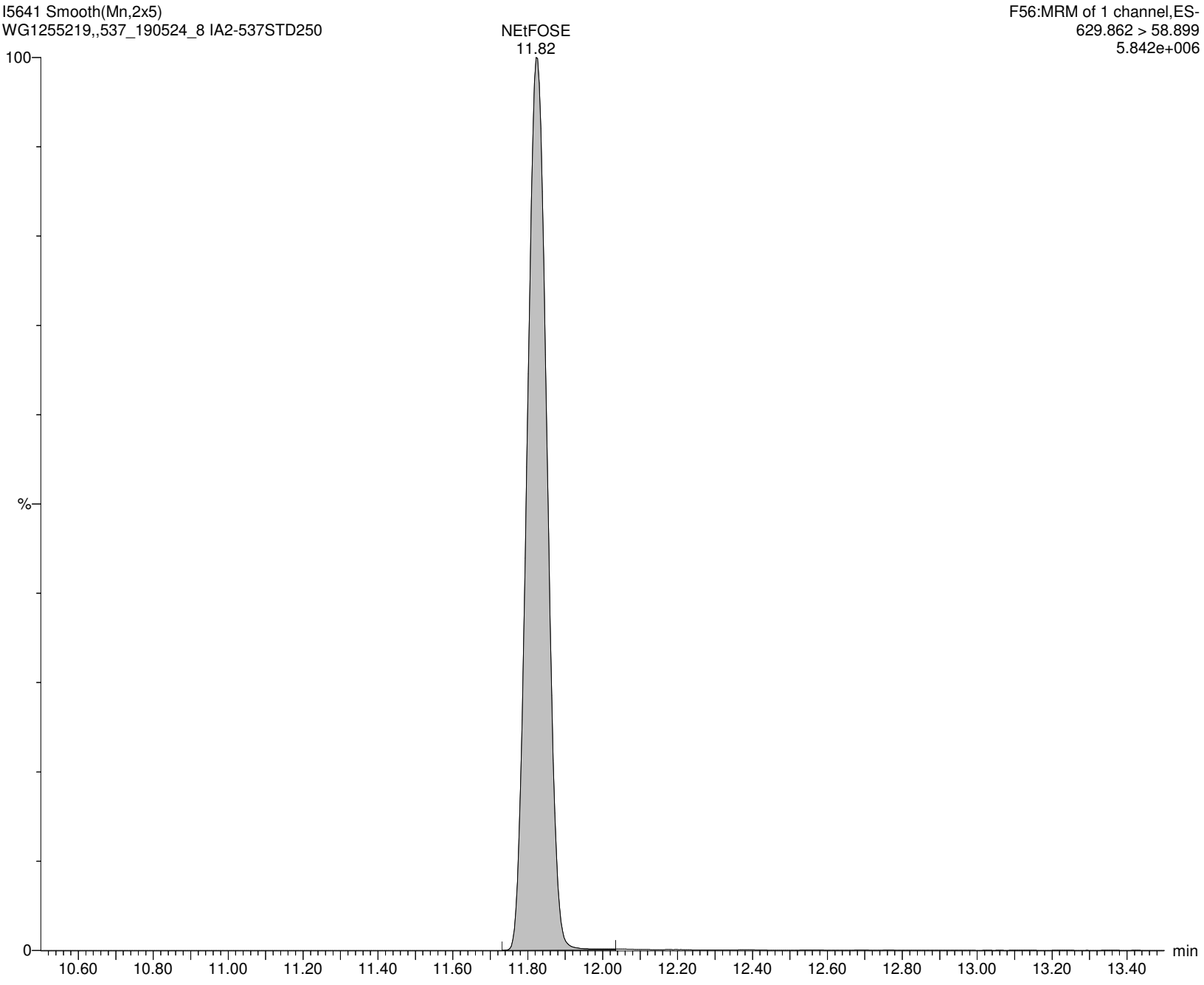


all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICAL.qld
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Vial: 1:B,1
Instrument: XEVO-TQSmicro#QEB0050
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MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

NEtFOSE

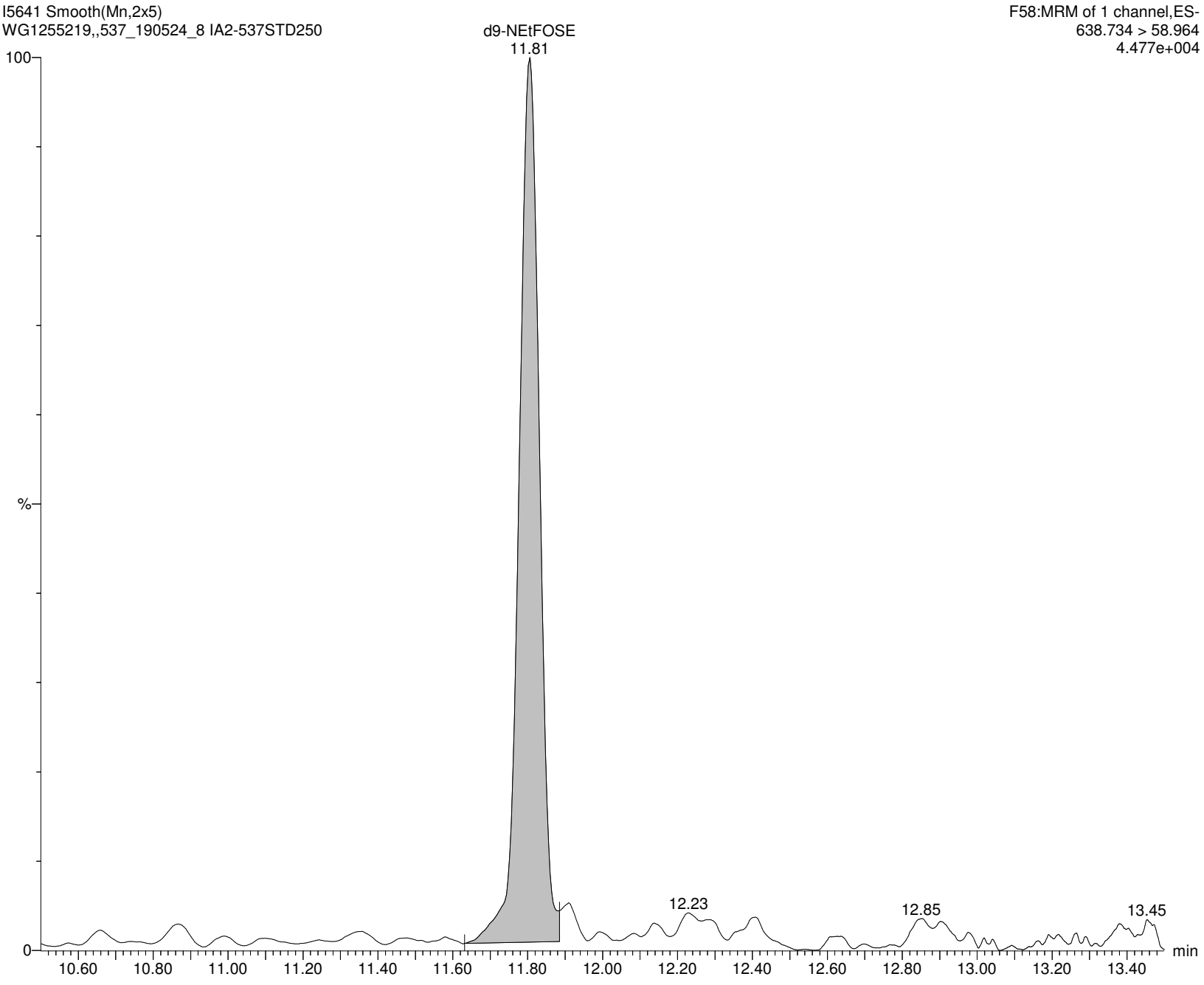


all concentration units in (ng/mL)

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Vial: 1:B,1
Instrument: XEVO-TQSmicro#QEB0050
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d9-NEtFOSE



all concentration units in (ng/mL)

Initial Calibration Verification

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICV.qld
Last Altered: Tuesday, July 02, 2019 11:12:50 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:13:26 Eastern Daylight Time

Method: C:\MassLynx\Data\2019\190701_537ISO.PRO\MethDB\537ISO_Q_190702_DOD.mdb 02 Jul 2019 11:08:09
Calibration: C:\MassLynx\Data\2019\190701_537ISO.PRO\CurveDB\190702_ISO_ICAL.cdb 02 Jul 2019 11:07:37

ID: CA2-537STD010
Name: I5657
Date: 02-Jul-2019
Time: 10:24:16
Description: WG1255219,,537ISO__190528
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.09	212.926 > 169.111	43319		9.975		na	
2	M3PFBA	INT STD	2.09	215.926 > 172.122	44031		11.384		na	113.8
3	MPFBA	INT STD	2.09	216.926 > 172.137	47727		9.666		na	96.7
4	PFPeA	2706-90-3	4.97	262.926 > 219.002	74017		10.514		na	
5	M5PFPEA	INT STD	4.97	267.989 > 223.081	68606		9.816		na	98.2
6	PFBS	375-73-5	5.63	298.926 > 79.923	16321		11.169	1.92	YES	
7	M3PFBS	INT STD	5.63	301.989 > 80.254	9821		9.329		na	93.3
8	4:2FTS	757124-72-4	6.81	326.926 > 306.957	6568		11.712	2.09	NO	
9	M2-4:2FTS	INT STD	6.80	329.117 > 309.079	5567		8.826		na	88.3
10	PFHxA	307-24-4	6.88	312.989 > 269.028	91302		10.632	18.37	NO	
11	M5PFHxA	INT STD	6.88	317.989 > 273.045	86872		9.123		na	91.2
12	PFPeS	2706-91-4	7.21	348.926 > 80.251	11034		9.592	1.69	NO	
13	PFHpA	375-85-9	8.17	362.926 > 319.014	113404		9.899	5.80	NO	
14	M4PFHpA	INT STD	8.17	366.926 > 321.979	114898		9.470		na	94.7
15	br-PFHxS	355-46-4	8.10	398.926 > 80.295	1108	M5	1.785	1.84	NO	
16	L-PFHxS	355-46-4	8.34	398.926 > 80.295	7430		8.500	1.07	NO	
17	PFHxS	355-46-4		398.926 > 80.295	8537		10.284		na	
18	M3PFHxS	INT STD	8.34	401.926 > 80.317	6454		9.892		na	98.9
19	br-PFOA	335-67-1		412.989 > 368.9			ND	0.00	YES	
20	L-PFOA	335-67-1	9.12	412.989 > 368.9	105781		9.904	9.78	NO	
21	M2PFOA	INT STD	9.12	415.032 > 369.968	112956		12.389		na	123.9
22	PFOA	335-67-1		412.989 > 368.9	105781		9.904		na	
23	M8PFOA	INT STD	9.13	420.989 > 375.979	107603		9.588		na	95.9
24	6:2FTS	27619-97-2	9.08	426.989 > 406.921	5219		11.284	10.98	NO	
25	M2-6:2FTS	INT STD	9.09	428.989 > 408.917	5909		10.395		na	103.9
26	PFHpS	375-92-8	9.22	448.926 > 80.257	5573		9.179	0.74	NO	
27	PFNA	375-95-1	9.88	462.989 > 418.931	97219		10.409	4.22	NO	
28	M9PFNA	INT STD	9.88	472.053 > 426.947	102944		9.905		na	99.1
29	br-PFOS	1763-23-1	9.68	498.989 > 80.294	2474	M5	2.623	21.46	NO	
30	L-PFOS	1763-23-1	9.93	498.989 > 80.294	5645		6.471	1.40	NO	
31	PFOS	1763-23-1		498.989 > 80.294	8119		9.094		na	
32	M4PFOS	INT STD	9.93	503.032 > 80.306	7909		10.634		na	106.3
33	M8PFOS	INT STD	9.93	507.053 > 80.294	8464		9.937		na	99.4
34	PFDA	335-76-2	10.51	513.053 > 468.906	93422		10.736	6.24	NO	
35	M2PFDA	INT STD	10.51	515.053 > 469.934	90974		12.719		na	127.2
36	M6PFDA	INT STD	10.51	519.053 > 473.931	96243		9.462		na	94.6
37	8:2FTS	39108-34-4	10.50	526.926 > 506.818	3801		10.004		na	
38	M2-8:2FTS	INT STD	10.50	529.053 > 508.945	3612		11.580		na	115.8
39	PFNS	68259-12-1	10.55	548.989 > 80.249	9351		11.124	1.30	NO	

all concentration units in (ng/mL)

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ID: CA2-537STD010
Name: I5657
Date: 02-Jul-2019
Time: 10:24:16
Description: WG1255219,,537ISO__190528
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.89	573.096 > 418.987	9075		8.990		na	89.9
41	NMeFOSAA	2355-31-9	10.89	570.053 > 418.917	8361		9.070	2.70	NO	
42	PFUnA	2058-94-8	11.06	562.989 > 518.903	84687		9.180	7.75	NO	
43	M7-PFUDA	INT STD	11.05	570.053 > 524.923	89831		9.987		na	99.9
44	PFDS	335-77-3	11.07	598.926 > 80.314	7342		11.776	1.08	YES	
45	FOSA	754-91-6	10.92	497.989 > 78.245	28097		10.011	93.20	NO	
46	M8FOSA	INT STD	10.92	506.053 > 78.286	24437		8.072		na	80.7
47	d5-NEtFOSAA	INT STD	11.18	589.117 > 418.929	7898		8.635		na	86.4
48	NEtFOSAA	2991-50-6	11.18	583.989 > 418.927	7845		9.822	2.69	NO	
49	PFDoA	307-55-1	11.53	612.989 > 568.967	87874		9.620	15.52	NO	
50	MPFDOA	INT STD	11.53	614.989 > 569.92	95184		9.558		na	95.6
51	PFTrDA	72629-94-8	11.94	663.053 > 618.969	87651		10.219	11.02	NO	
52	PFTA	376-06-7	12.30	713.053 > 668.976	73638		10.880	9.25	NO	
53	M2PFTEDA	INT STD	12.30	715.053 > 669.945	77824		9.249		na	92.5
54	M3HFPO-DA	INT STD	7.32	331.989 > 286.995	3993		13.674		na	6.8
55	HFPO-DA	13252-13-6	7.32	284.819 > 169.094	7790		1480.790	2.46	YES	
56	ADONA	958445-44-8	8.36	376.926 > 251.005	143437		9.278		na	
57	PFHxDA		12.73	813.053 > 769.005	67138		11.273		na	
58	PFODA		12.95	912.989 > 869.032	47976		10.271		na	
59	M2PFHxDA		12.73	815.372 > 770.158	23461		9.152		na	91.5
60	PFDoS		11.93	698.649 > 79.853	4891		11.900	2.08	YES	
61	10:2FTS		11.54	626.862 > 606.896	3925		9.829		na	
62	9CL-PF3ONS		10.29	530.862 > 350.843	54900		9.586		na	
63	11CL-PFOUdS		11.33	630.862 > 450.854	49209		9.755		na	
64	NMeFOSA		11.53	511.804 > 168.906	9522		9.909	1.54	NO	
65	d3-NMeFOSA		11.53	514.84 > 168.917	10277		9.800		na	98.0
66	NEtFOSA		11.83	525.84 > 168.92	9922		8.794	5.10	NO	
67	d5-NEtFOSA		11.82	530.904 > 168.919	12755		9.392		na	93.9
68	NMeFOSE		11.54	615.862 > 58.9	16769		10.088		na	
69	d7-NMeFOSE		11.52	622.84 > 58.964	6570		8.959		na	89.6
70	NEtFOSE		11.82	629.862 > 58.899	16363		9.869		na	
71	d9-NEtFOSE		11.81	638.734 > 58.964	3190		8.817		na	88.2

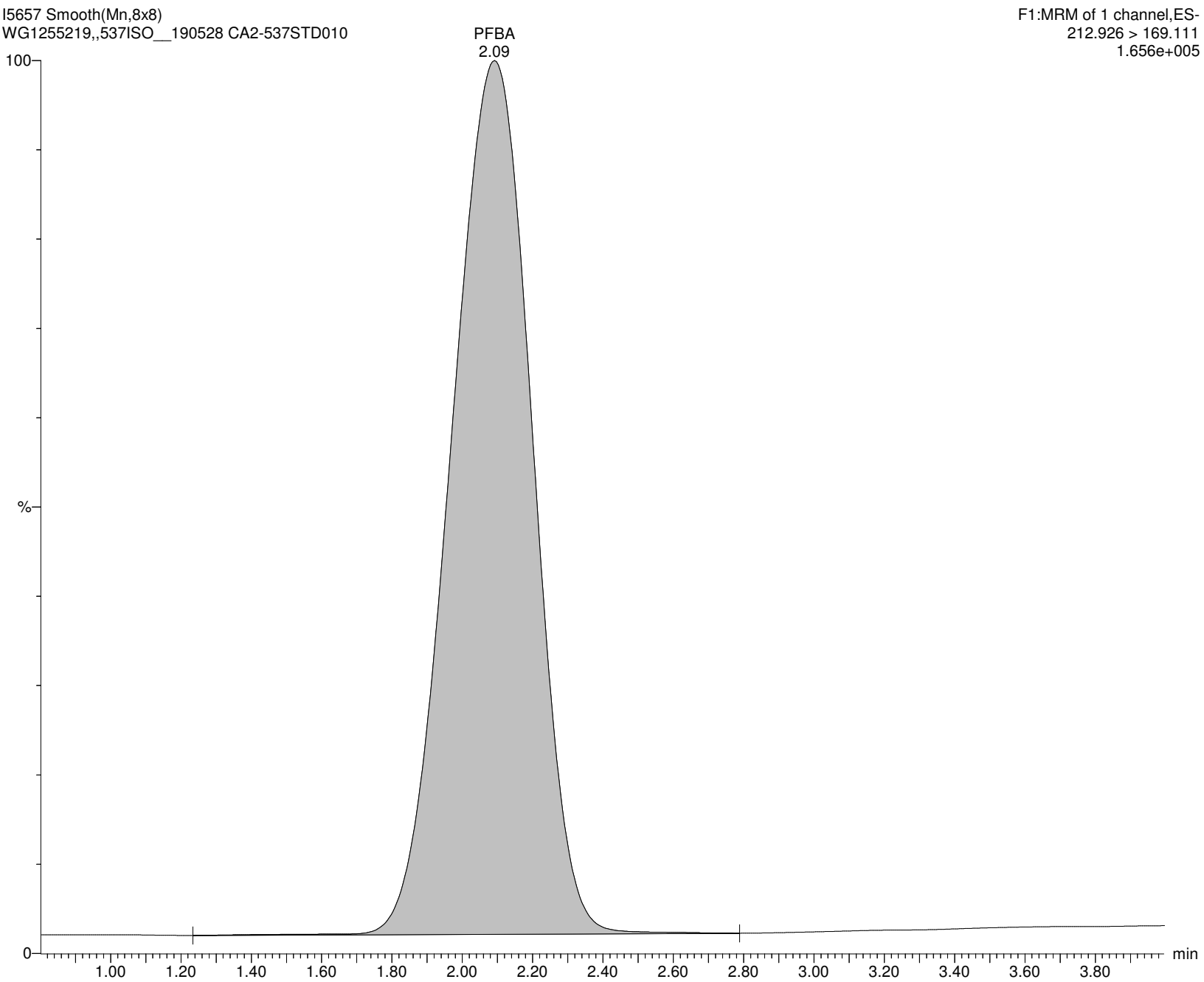
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICV.qld
Last Altered: Tuesday, July 02, 2019 11:12:50 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:13:26 Eastern Daylight Time

Method: C:\MassLynx\Data\2019\190701_537ISO.PRO\MethDB\537ISO_Q_190702_DOD.mdb 02 Jul 2019 11:08:09
Calibration: C:\MassLynx\Data\2019\190701_537ISO.PRO\CurveDB\190702_ISO_ICAL.cdb 02 Jul 2019 11:07:37

Name: I5657
ID: CA2-537STD010
Date: 02-Jul-2019
Time: 10:24:16
Description: WG1255219,,537ISO__190528
User: LCMS02:JW
Vial: 1:B,2
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
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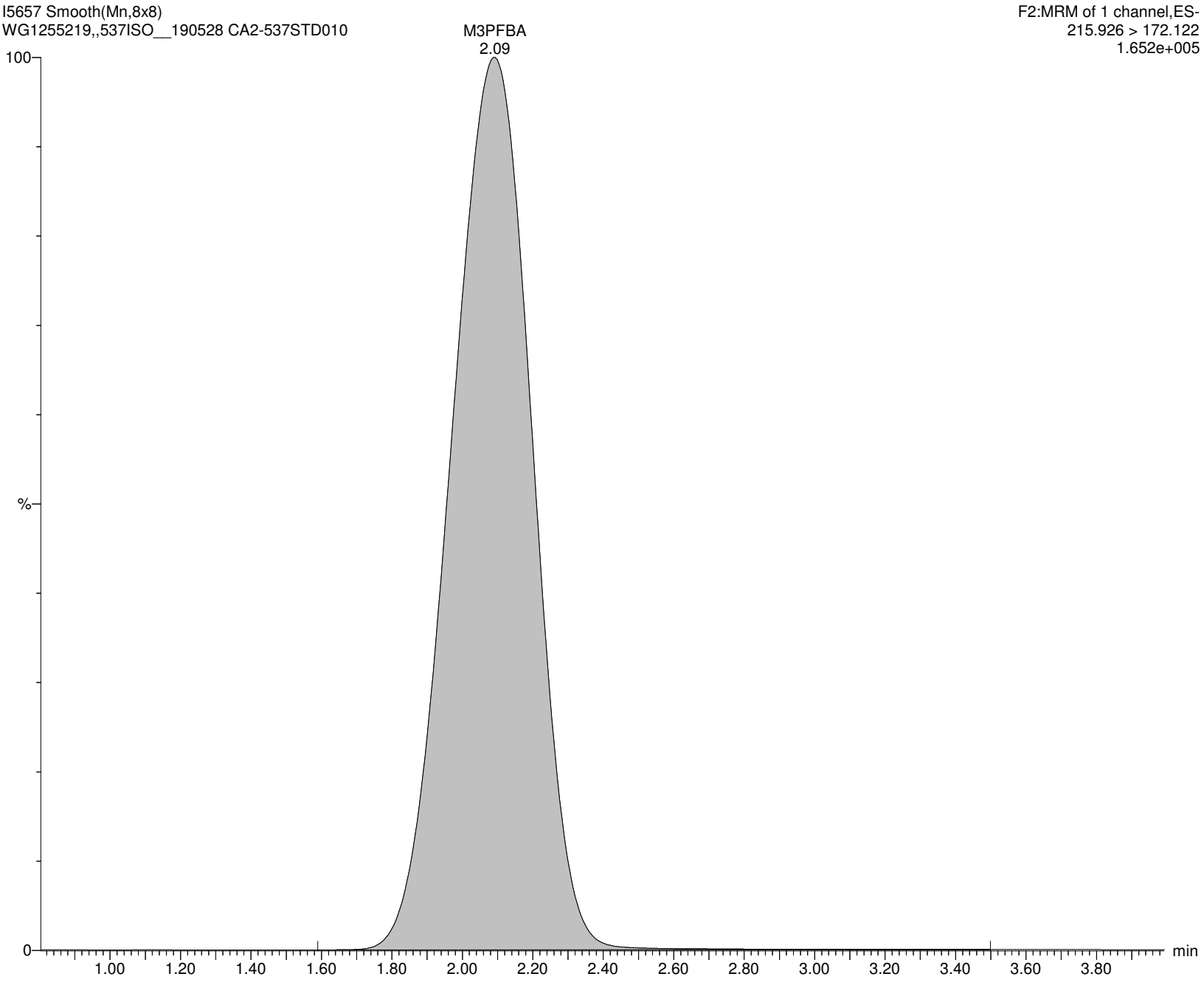


all concentration units in (ng/mL)

Alpha Analytical Inc.
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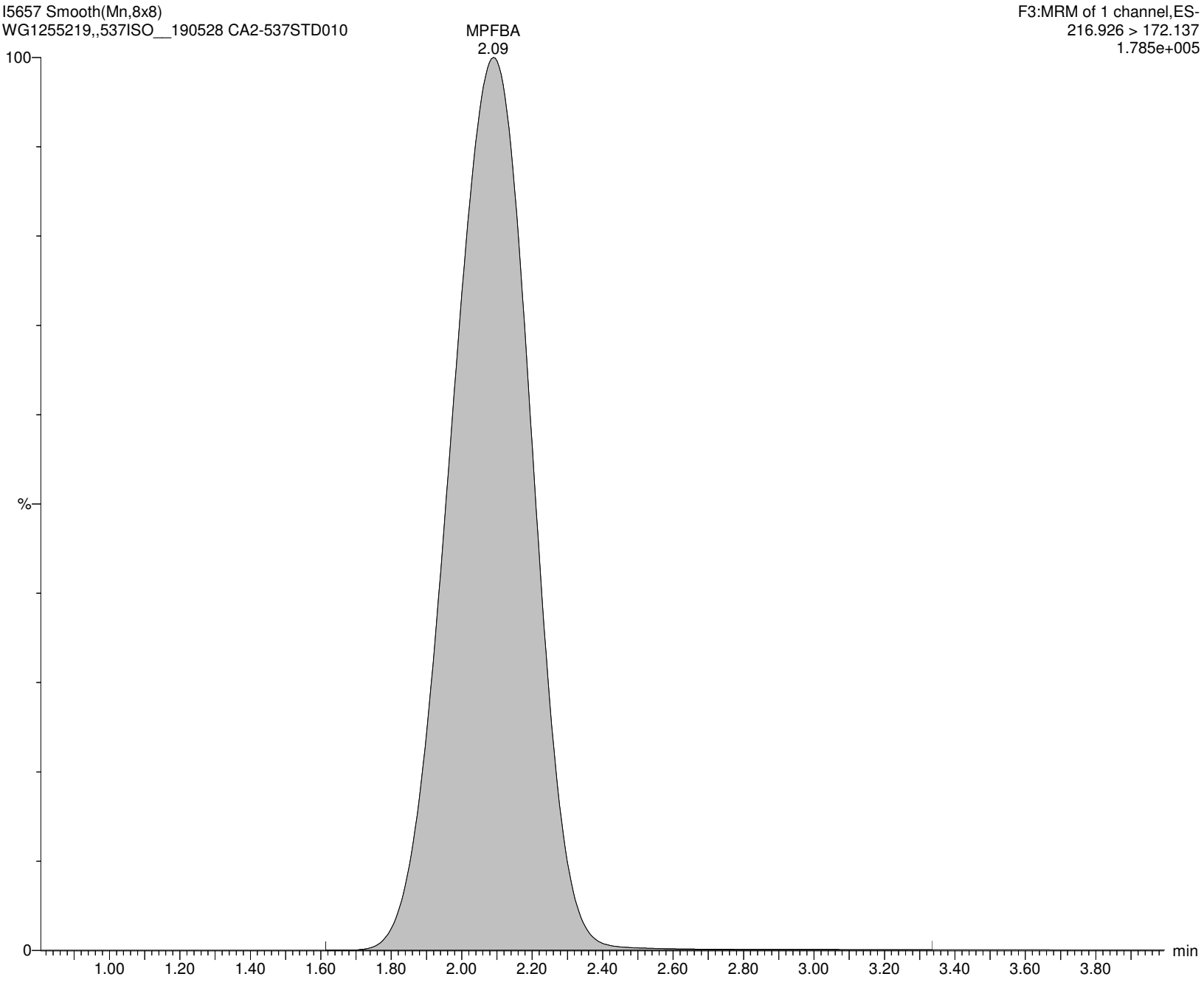


all concentration units in (ng/mL)

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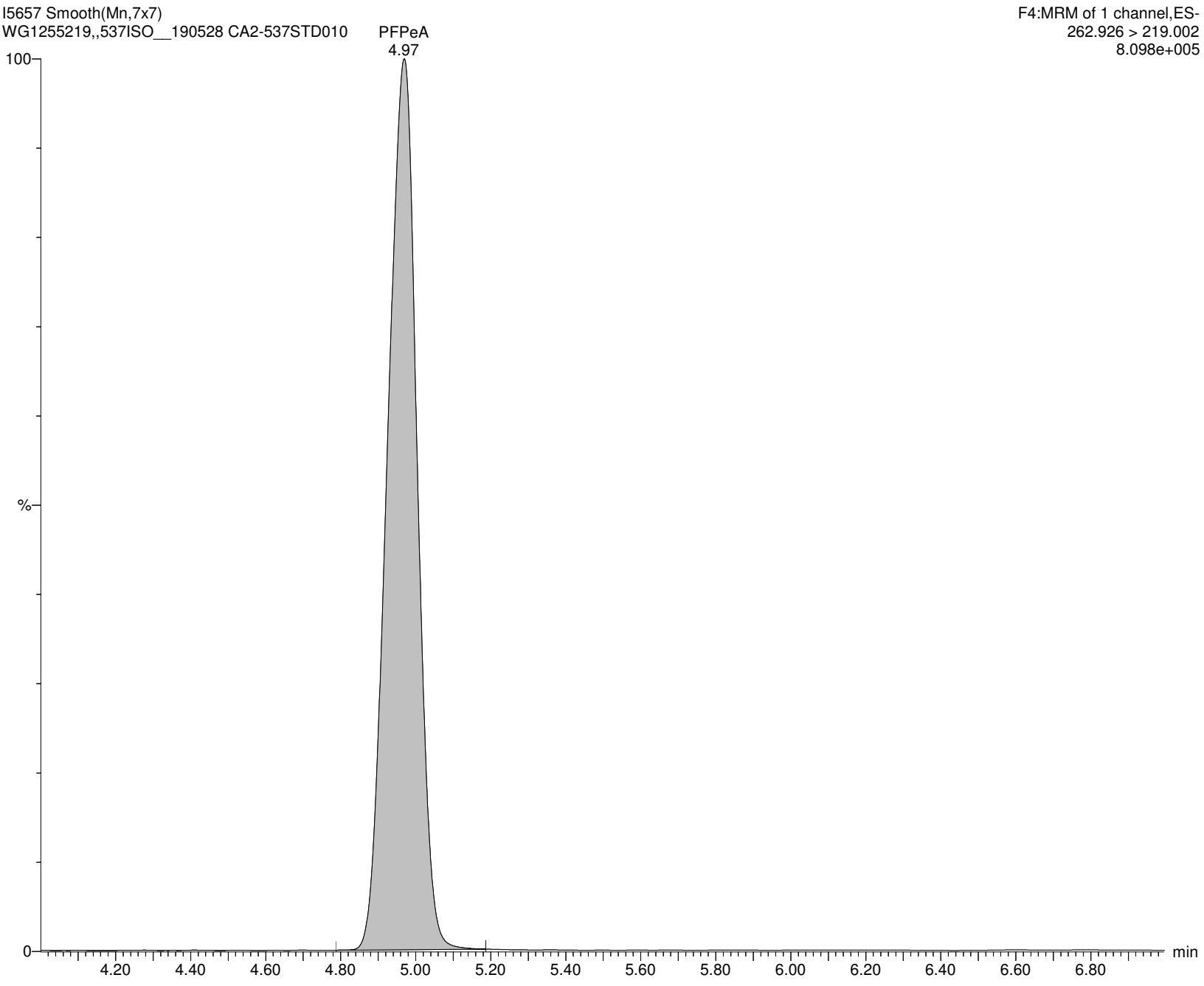


all concentration units in (ng/mL)

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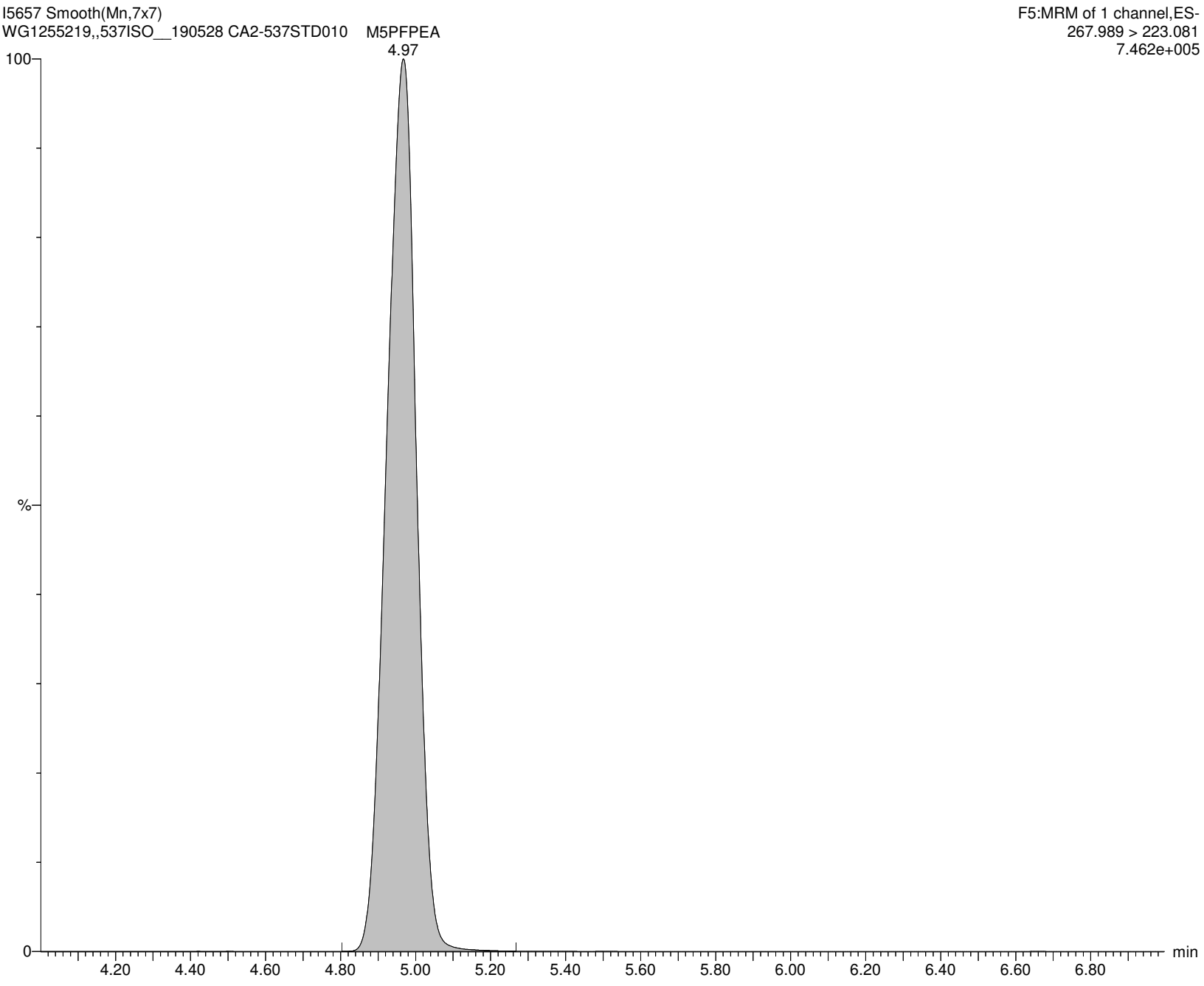


all concentration units in (ng/mL)

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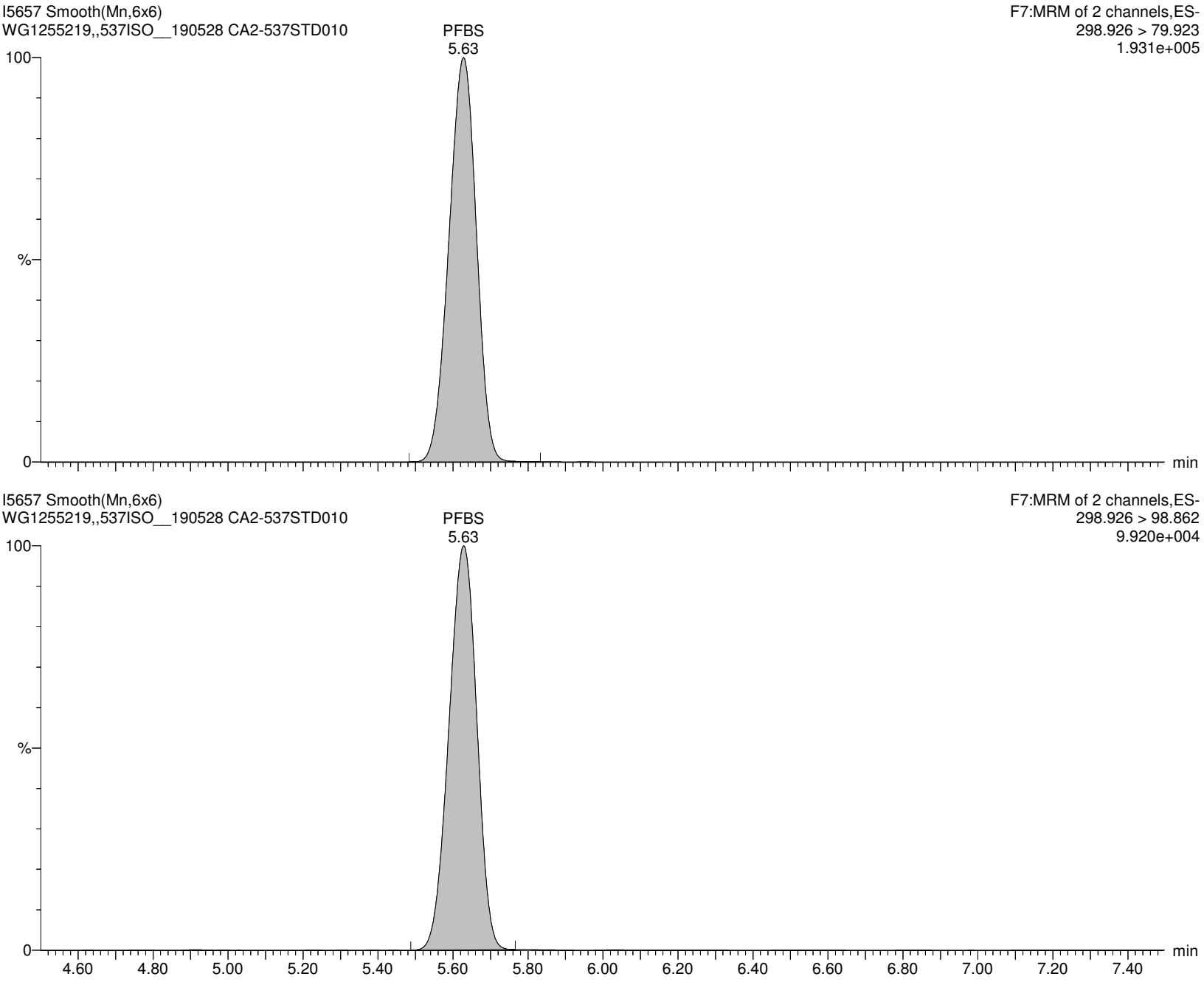


all concentration units in (ng/mL)

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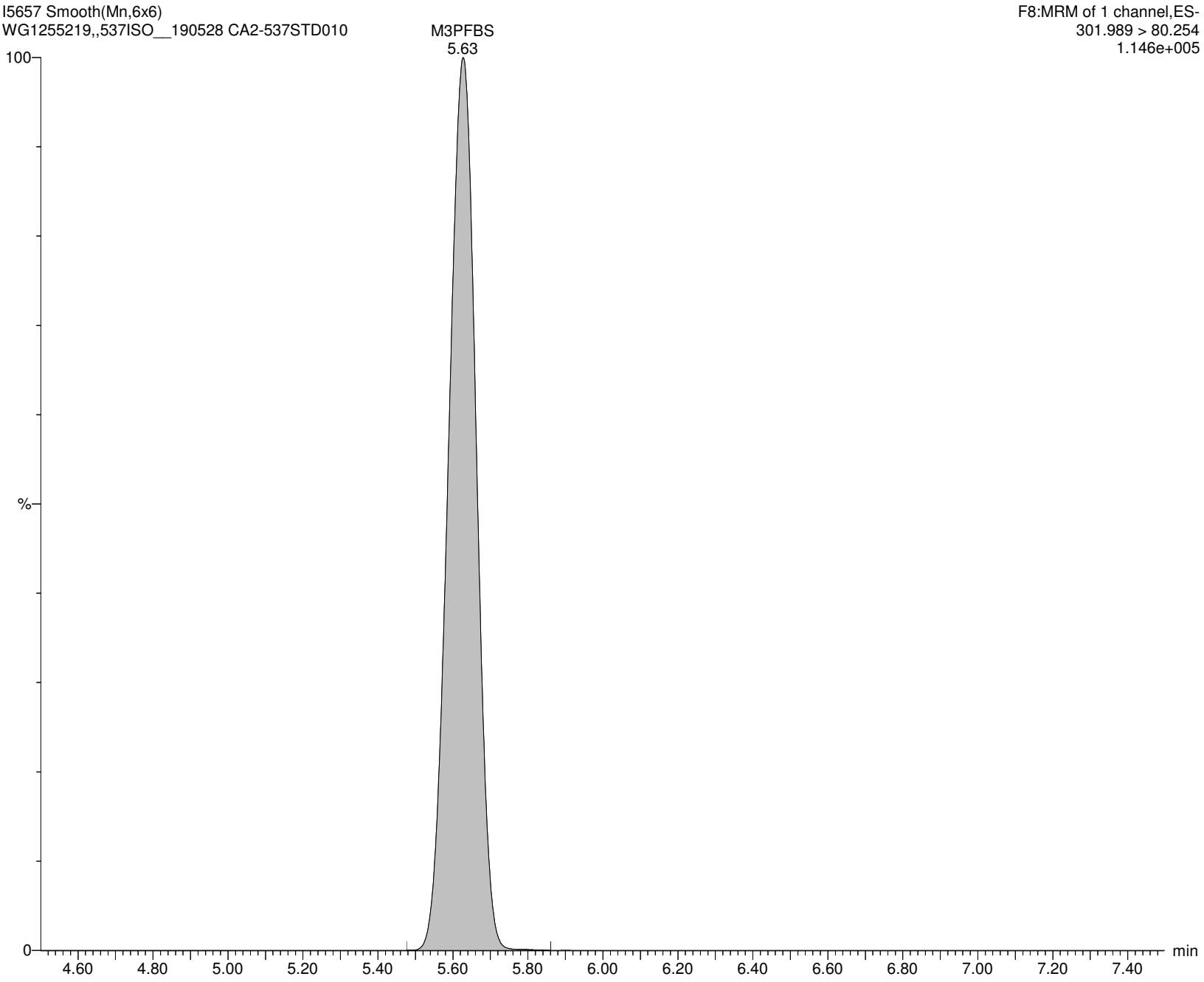


all concentration units in (ng/mL)

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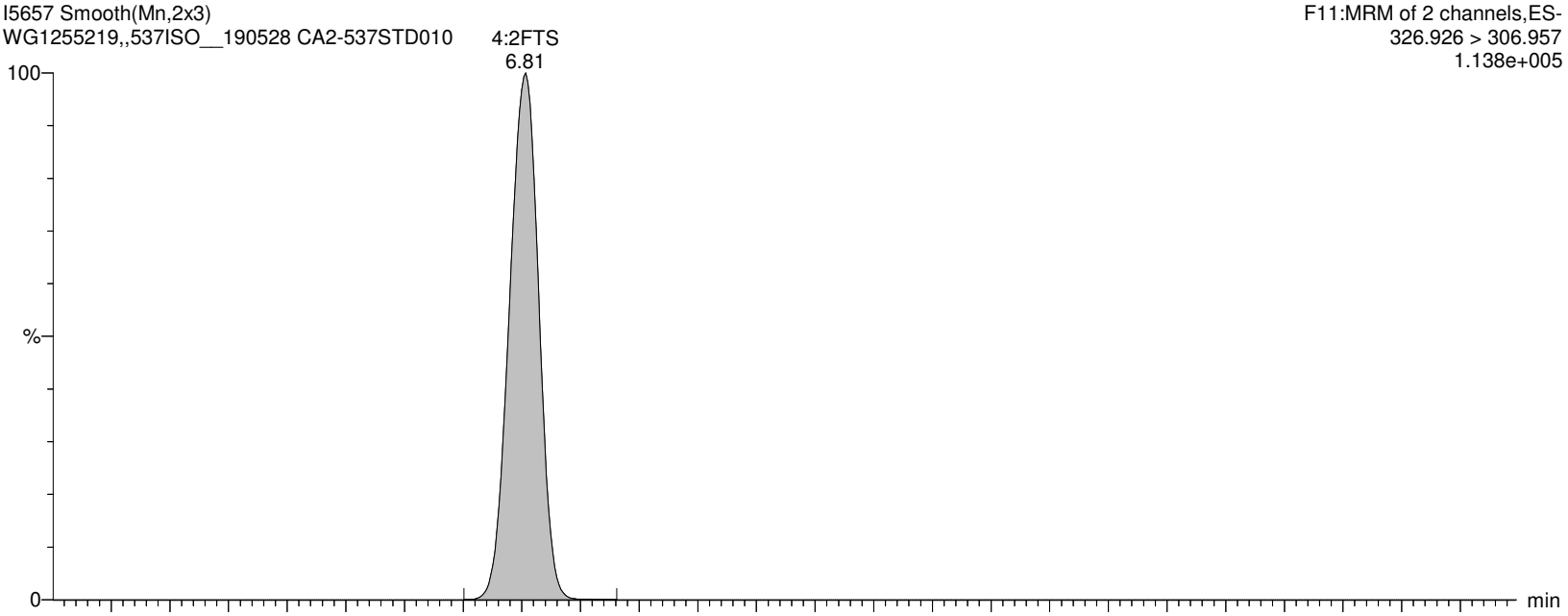


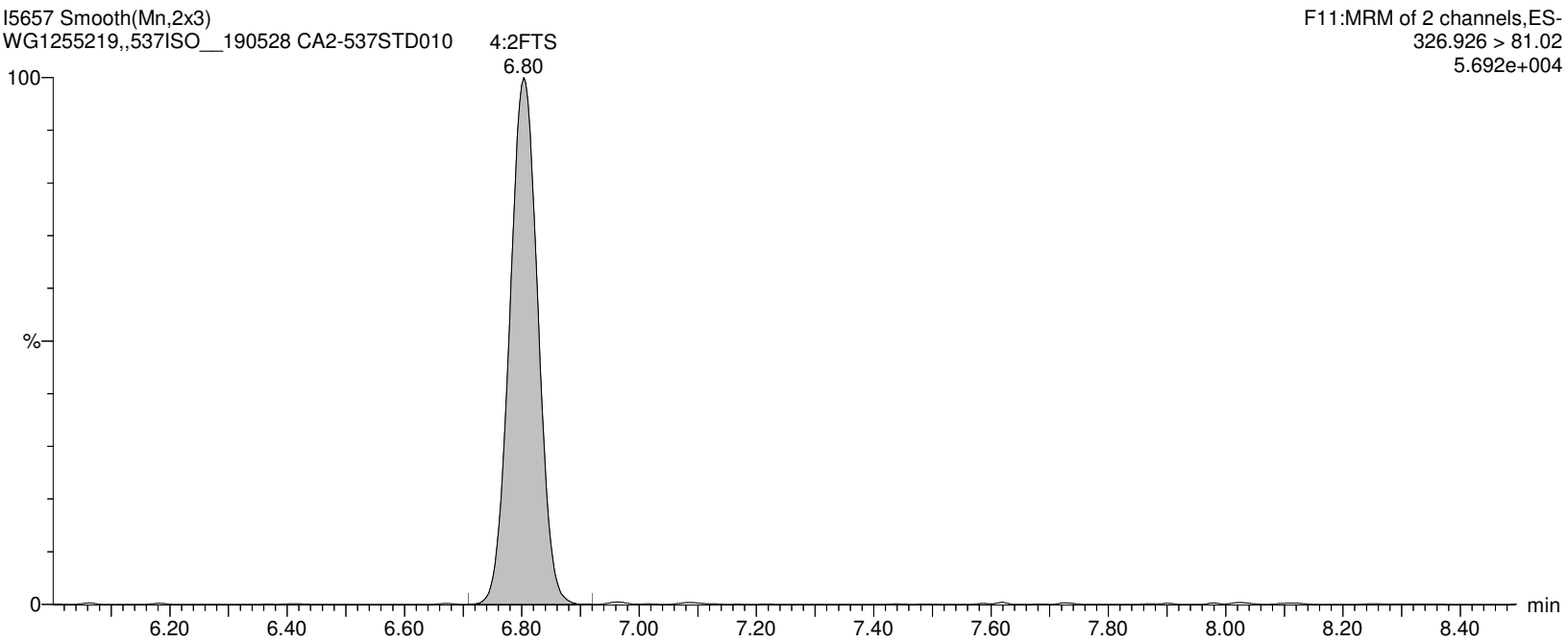
all concentration units in (ng/mL)

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4:2FTS



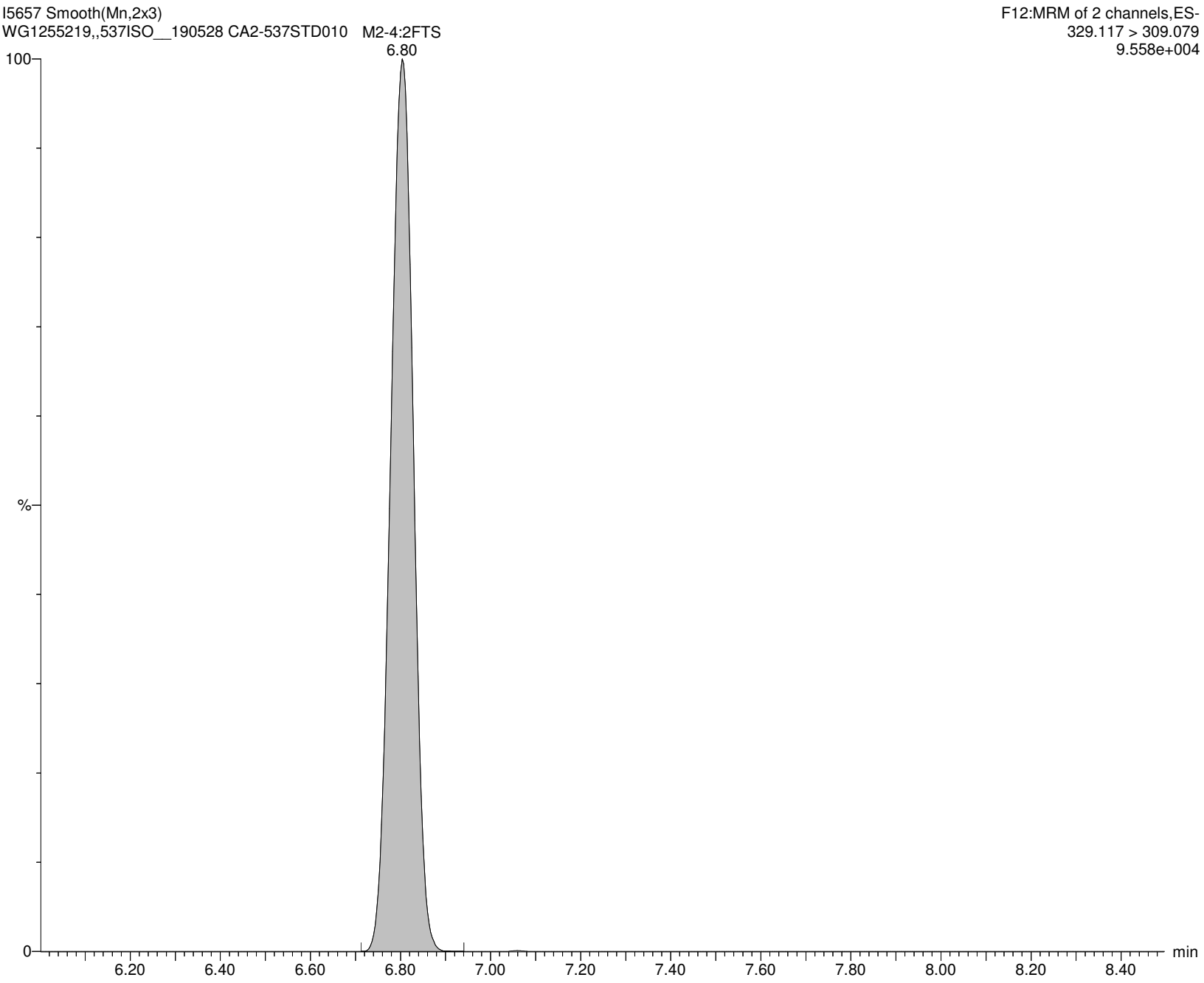


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICV.qld
Last Altered: Tuesday, July 02, 2019 11:12:50 Eastern Daylight Time
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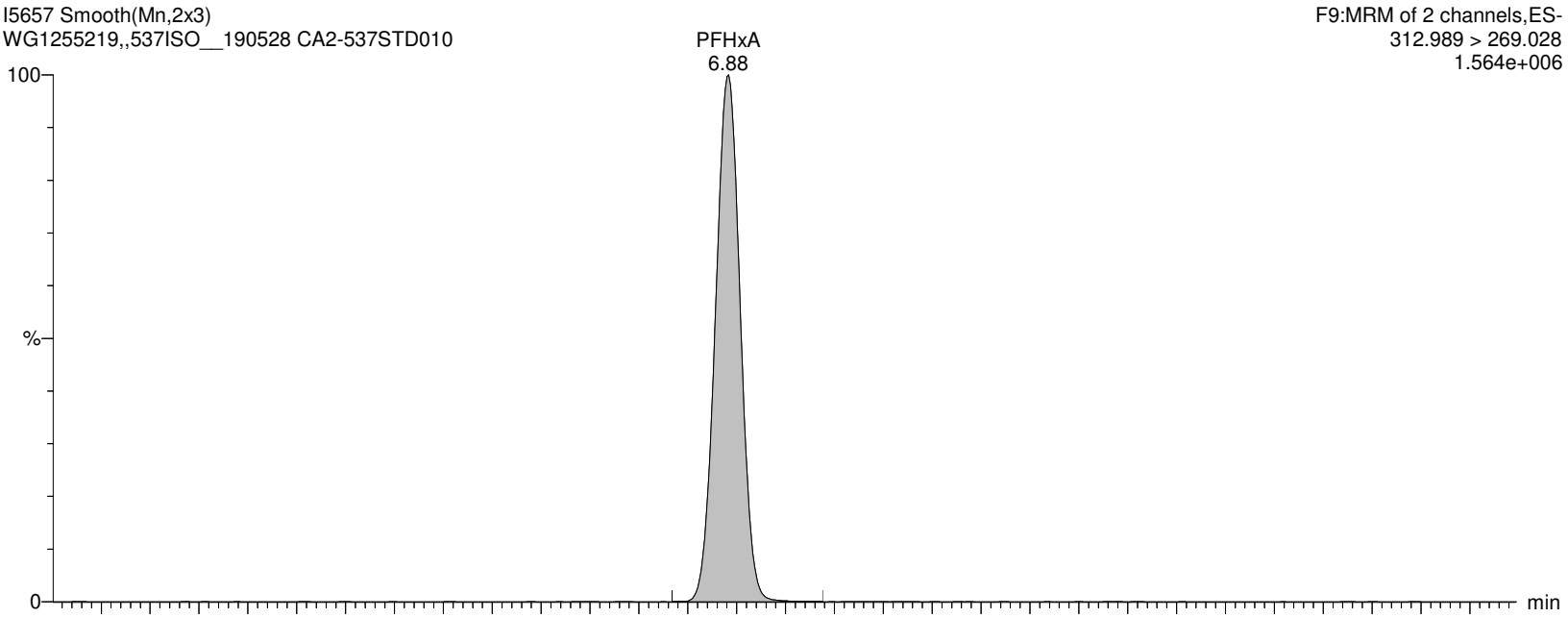


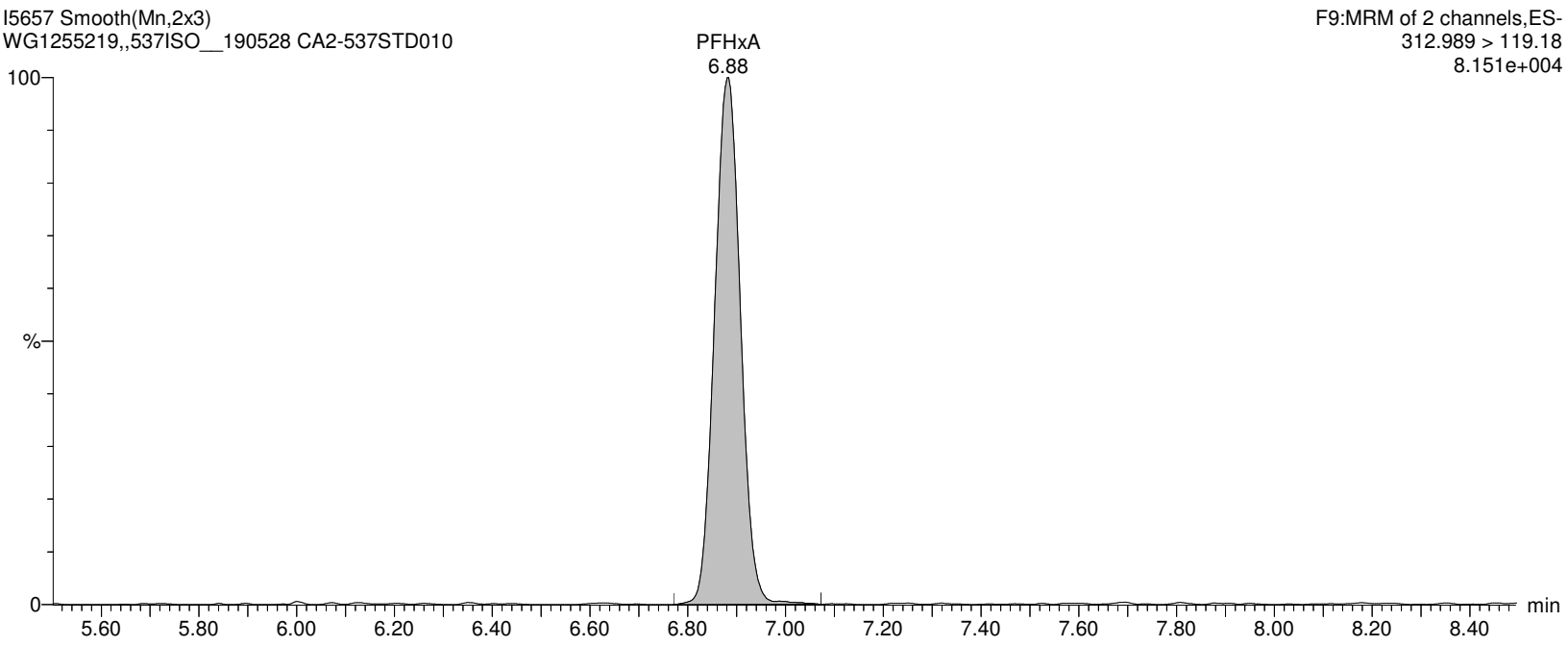
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:12:50 Eastern Daylight Time
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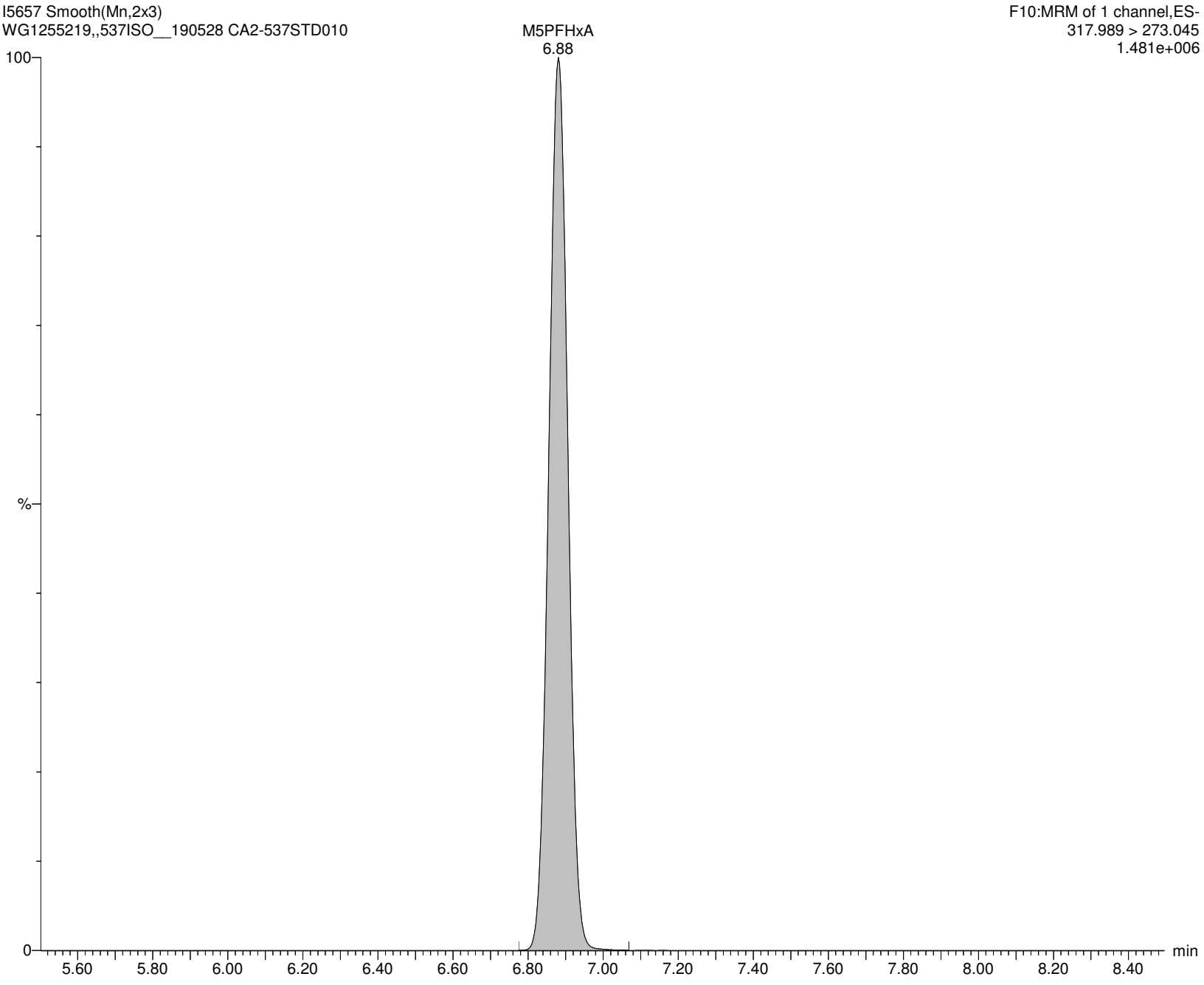


all concentration units in (ng/mL)

Alpha Analytical Inc.
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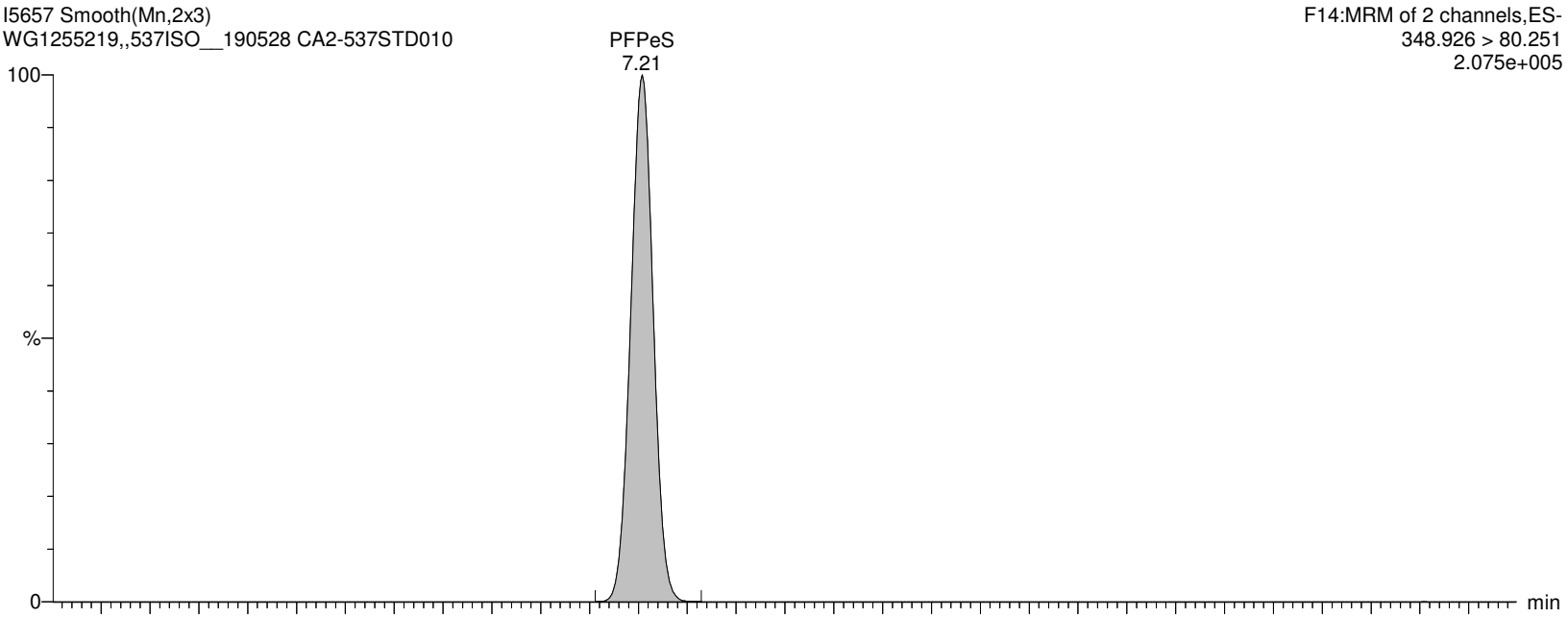


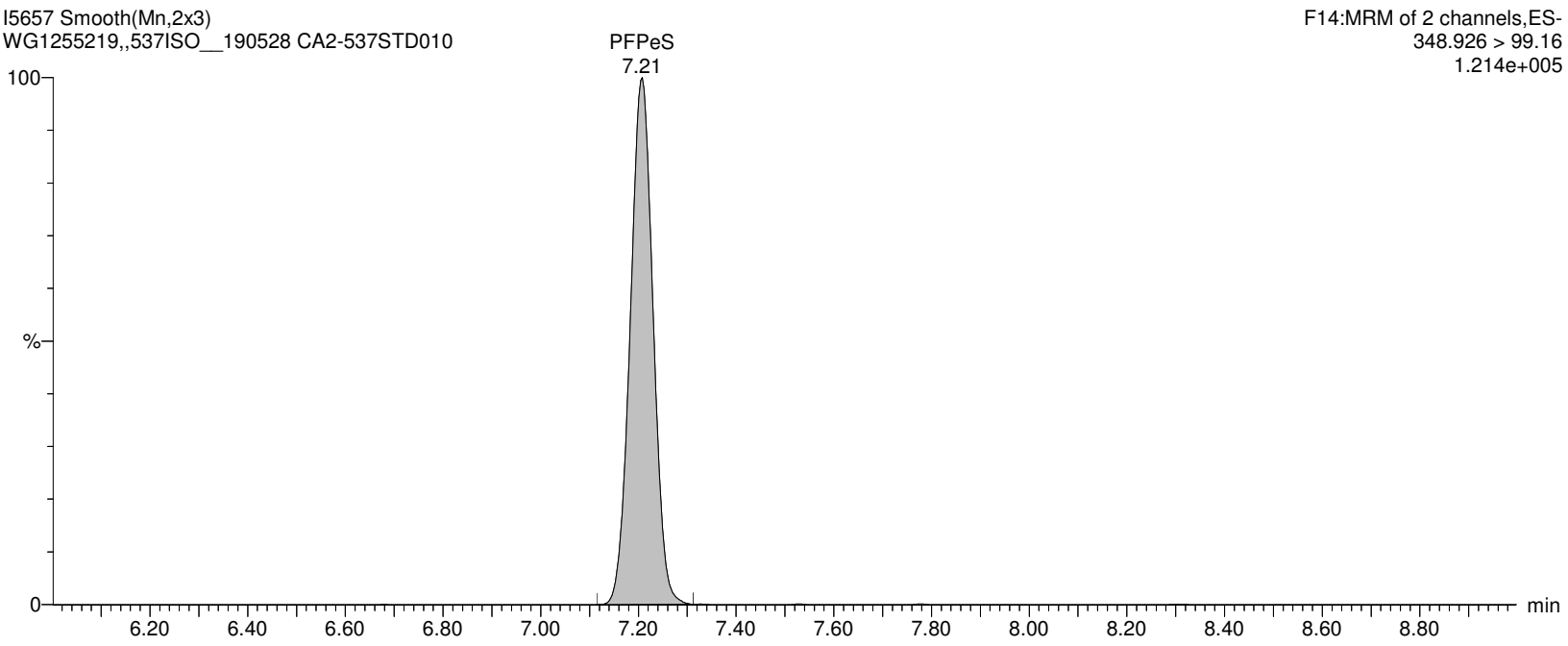
all concentration units in (ng/mL)

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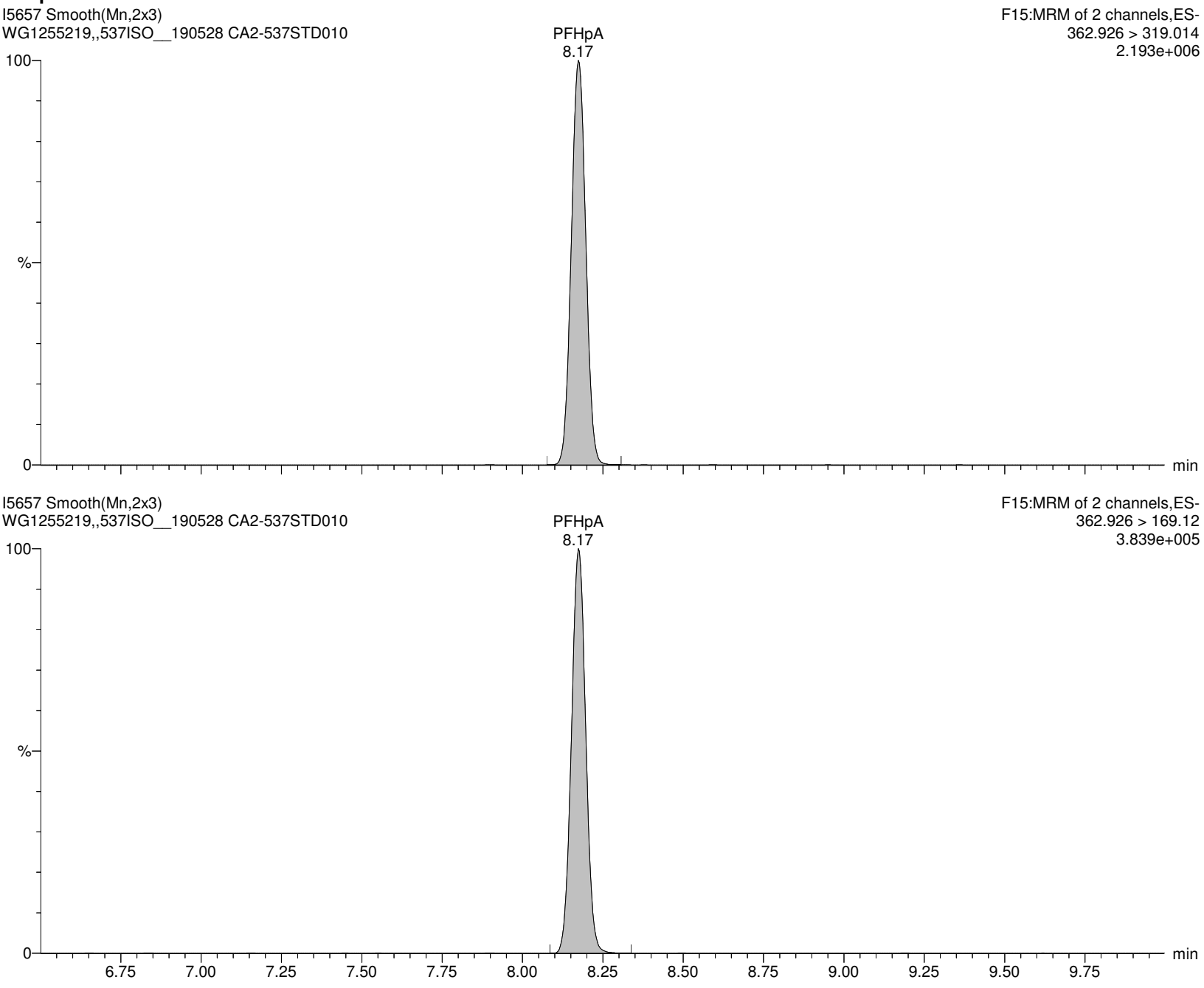


all concentration units in (ng/mL)

Alpha Analytical Inc.
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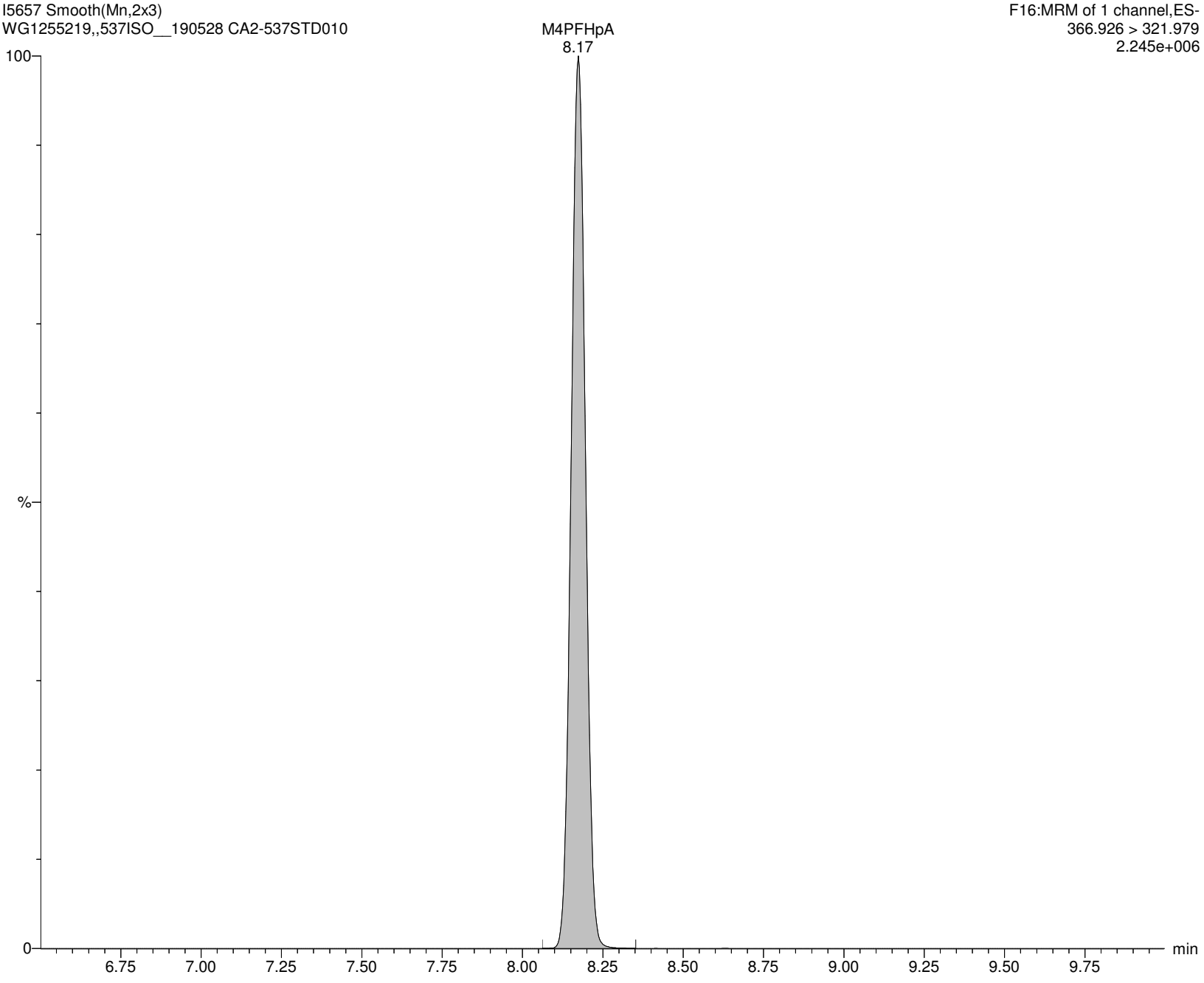


all concentration units in (ng/mL)

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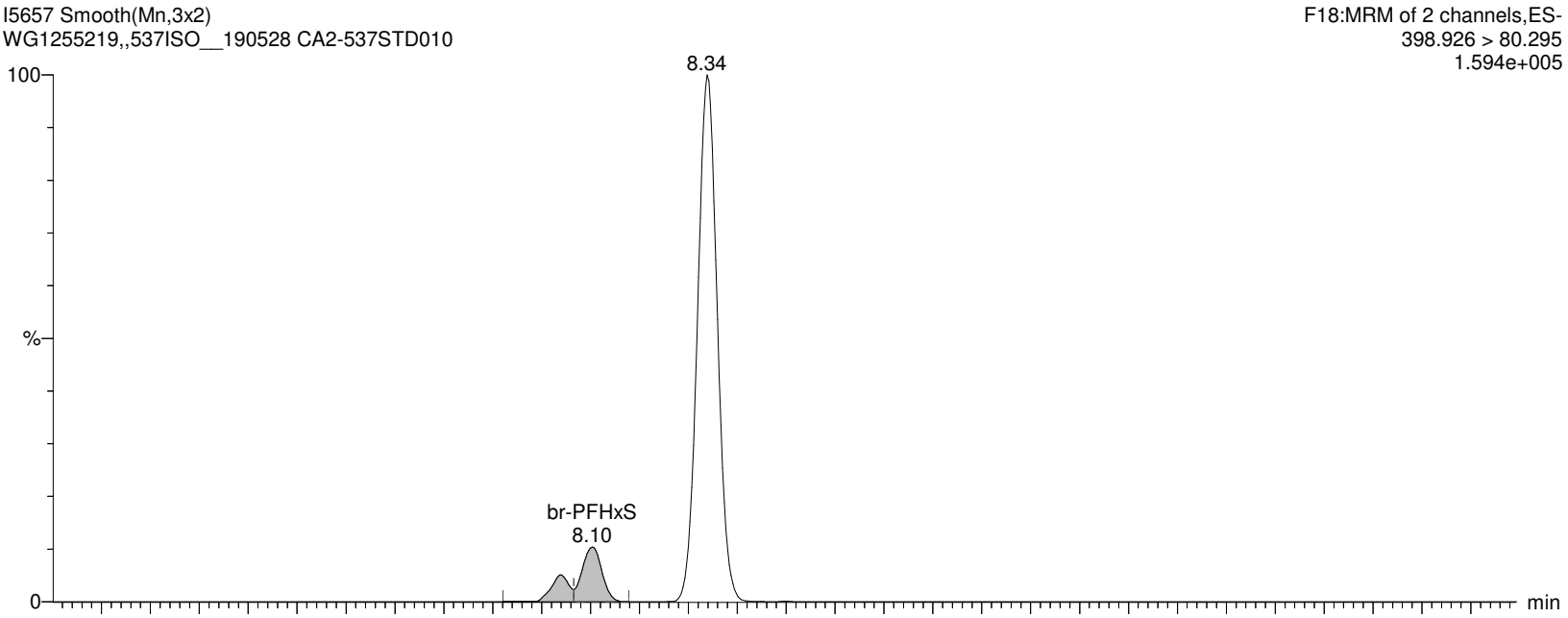


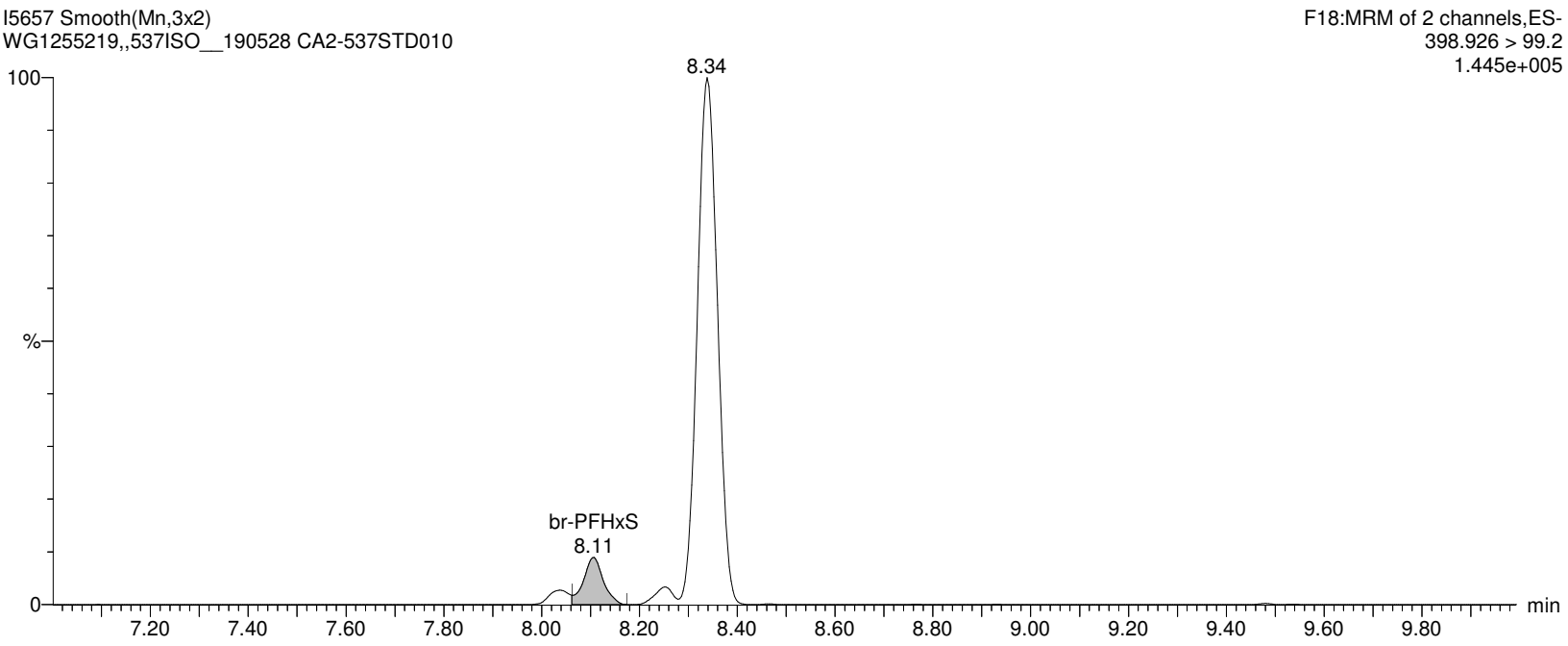
all concentration units in (ng/mL)

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br-PFHxS



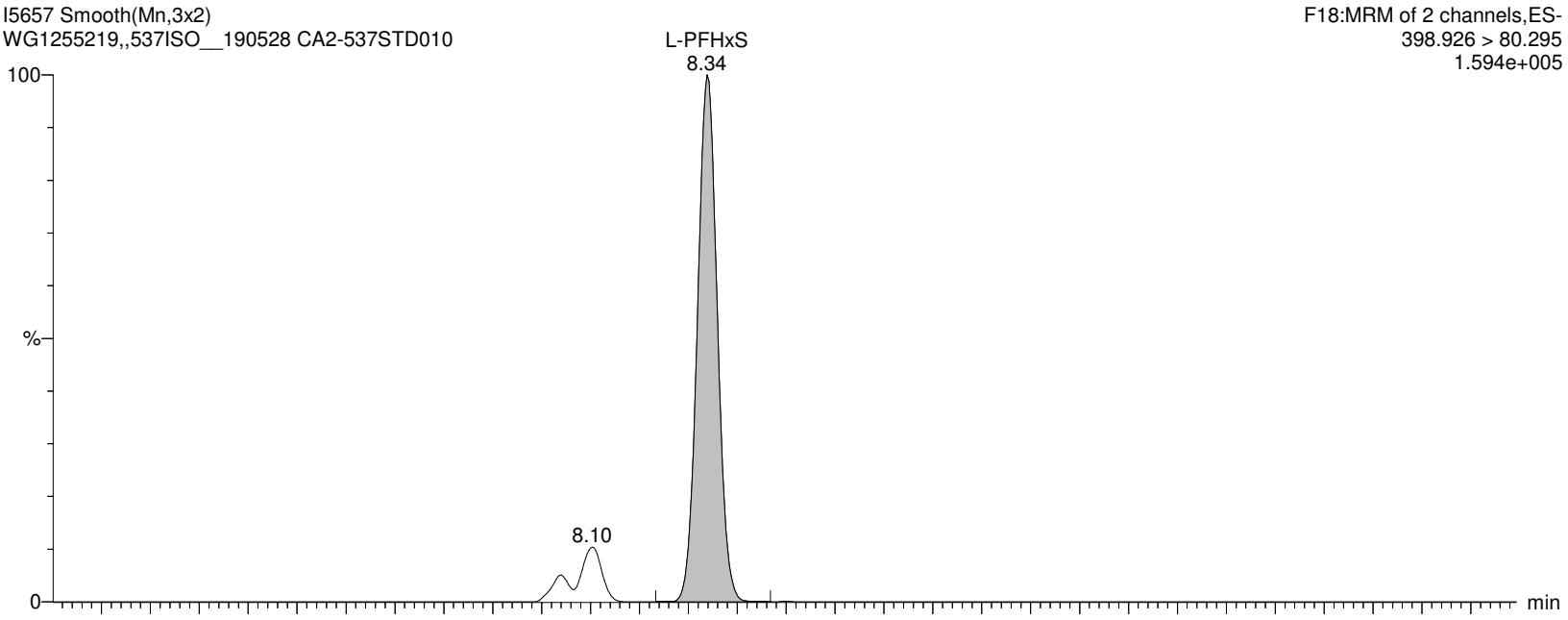


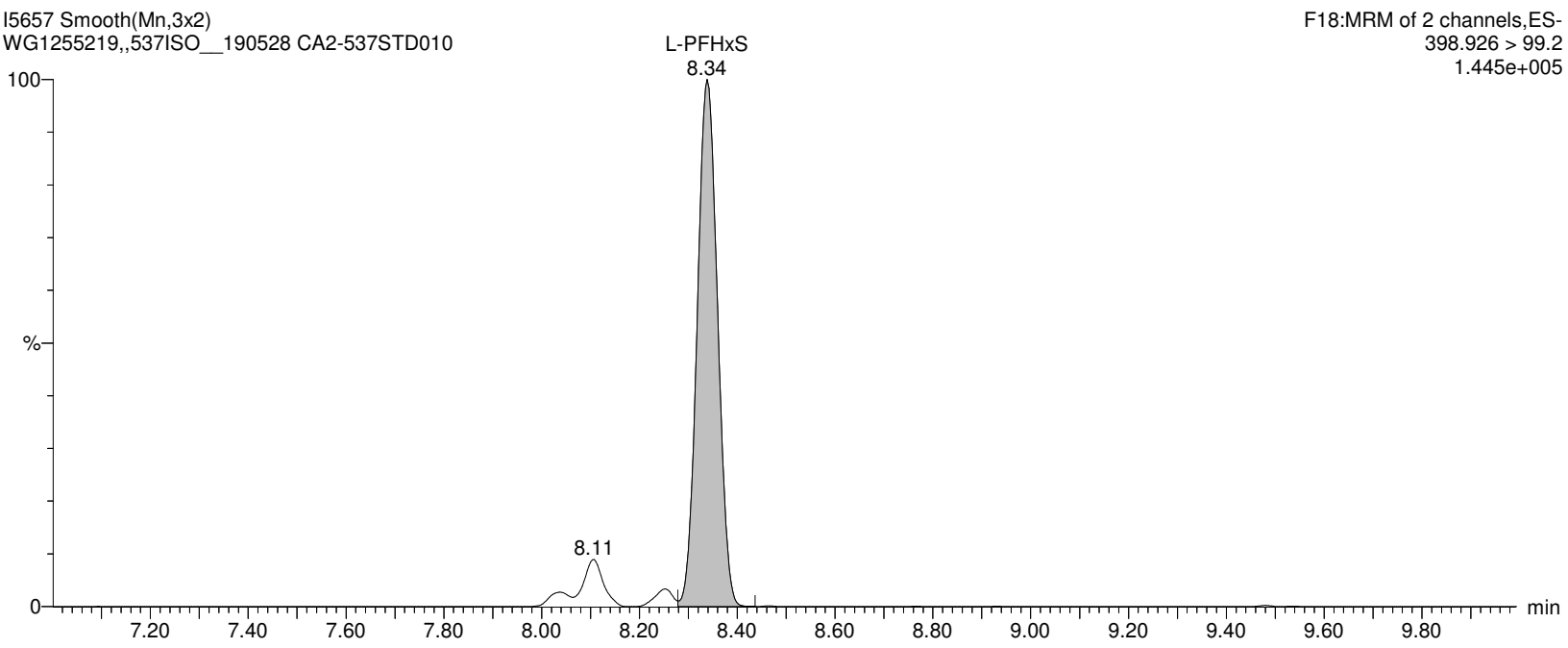
all concentration units in (ng/mL)

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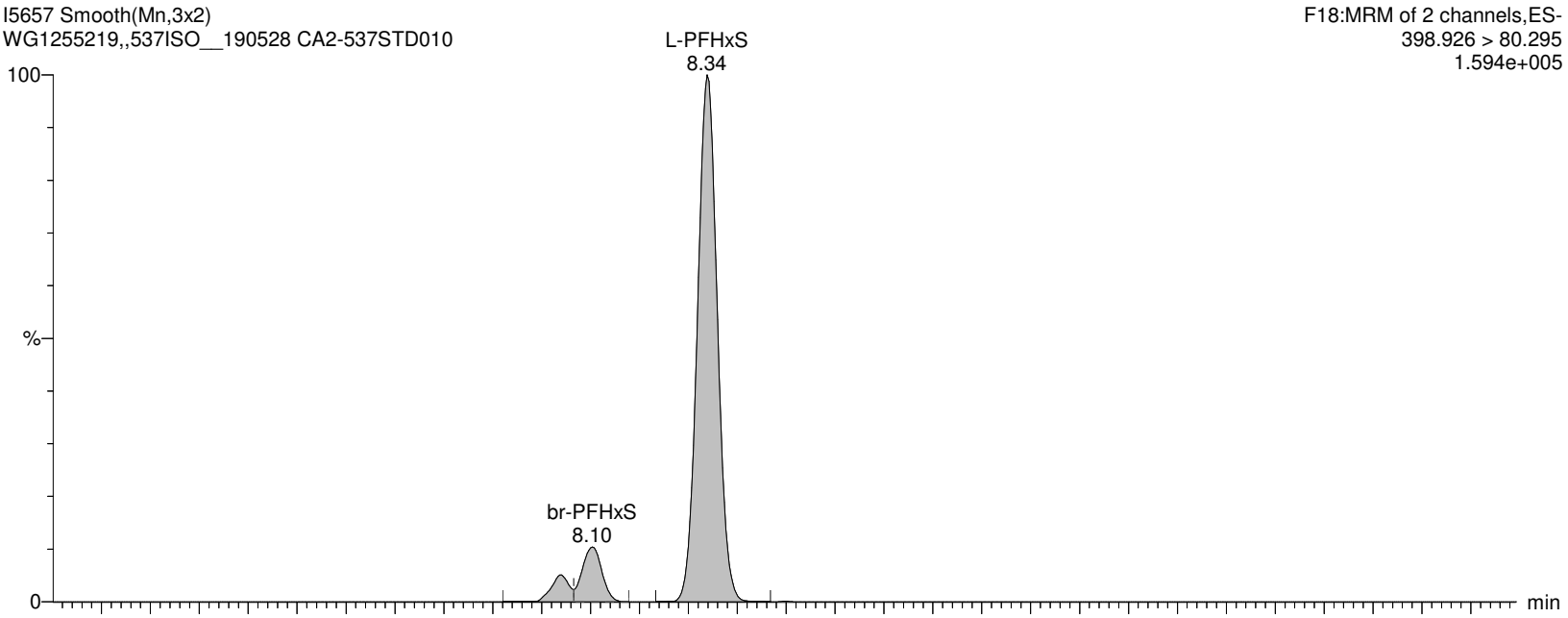


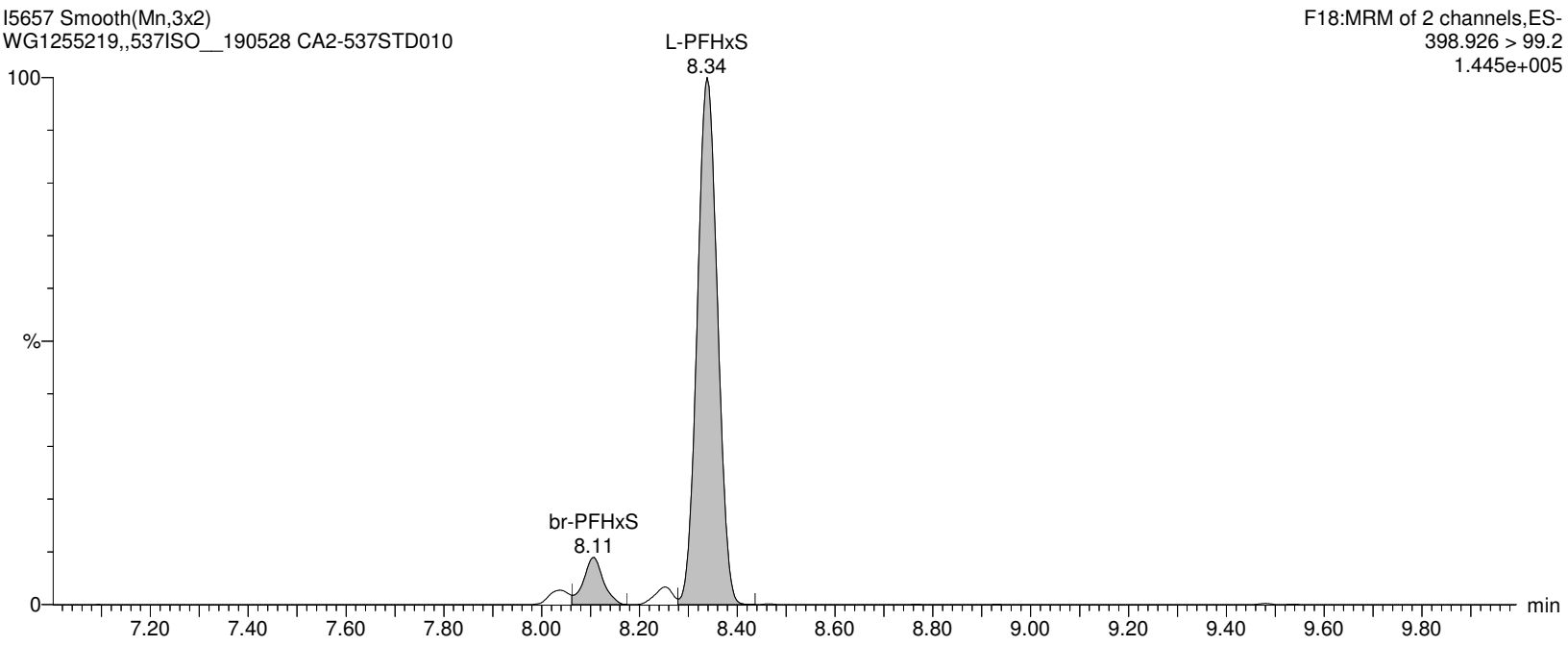
all concentration units in (ng/mL)

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Last Altered: Tuesday, July 02, 2019 11:12:50 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:13:26 Eastern Daylight Time

Name: I5657
ID: CA2-537STD010
Date: 02-Jul-2019
Time: 10:24:16
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User: LCMS02:JW
Vial: 1:B,2
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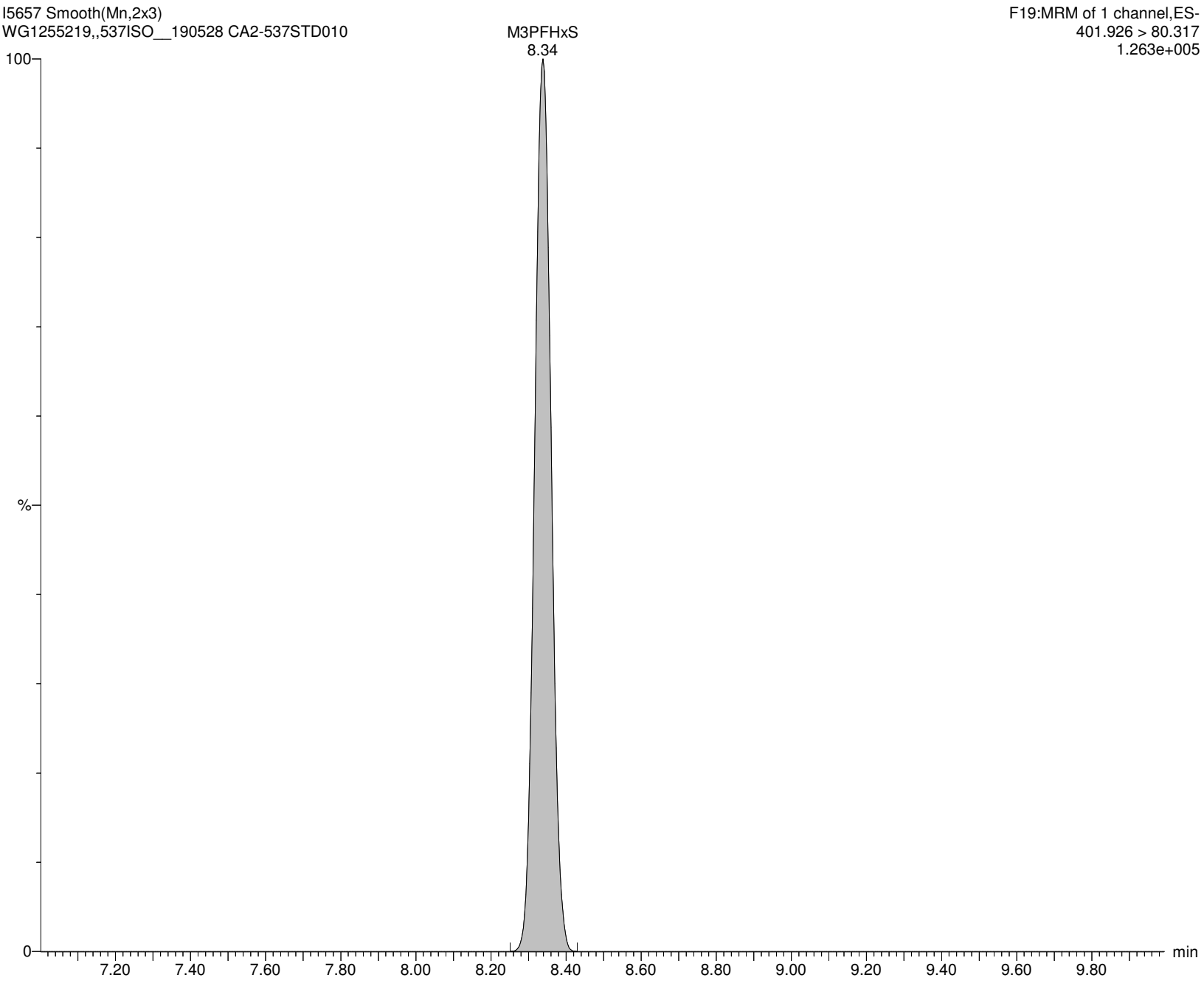


all concentration units in (ng/mL)

Alpha Analytical Inc.
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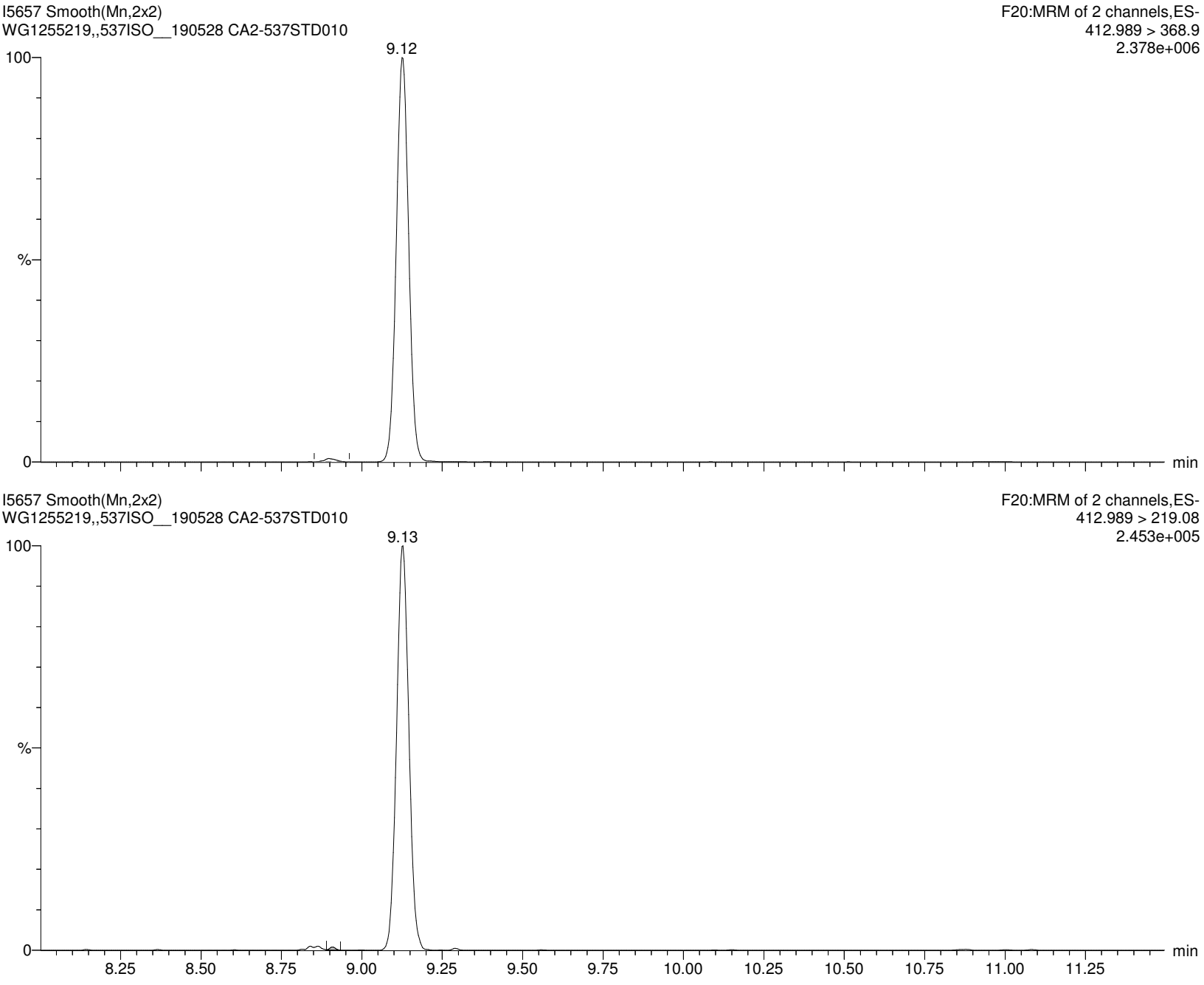


all concentration units in (ng/mL)

Alpha Analytical Inc.
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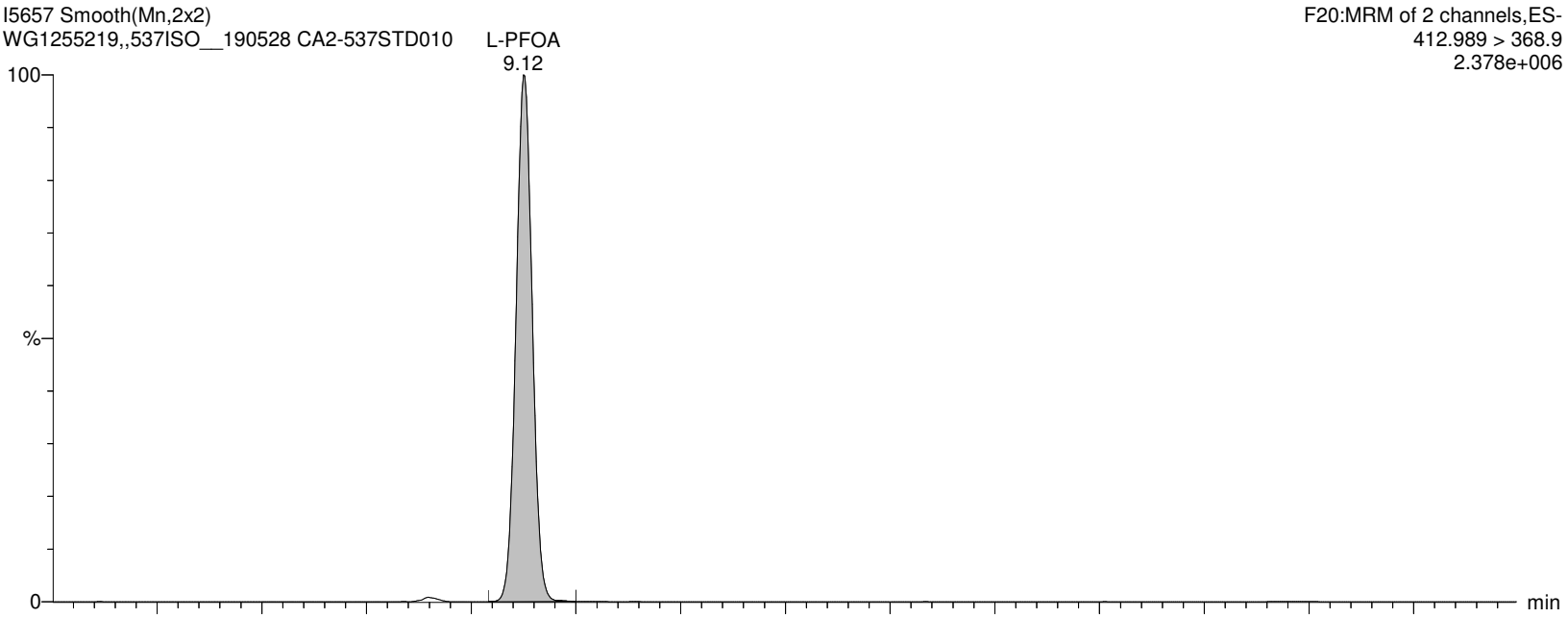


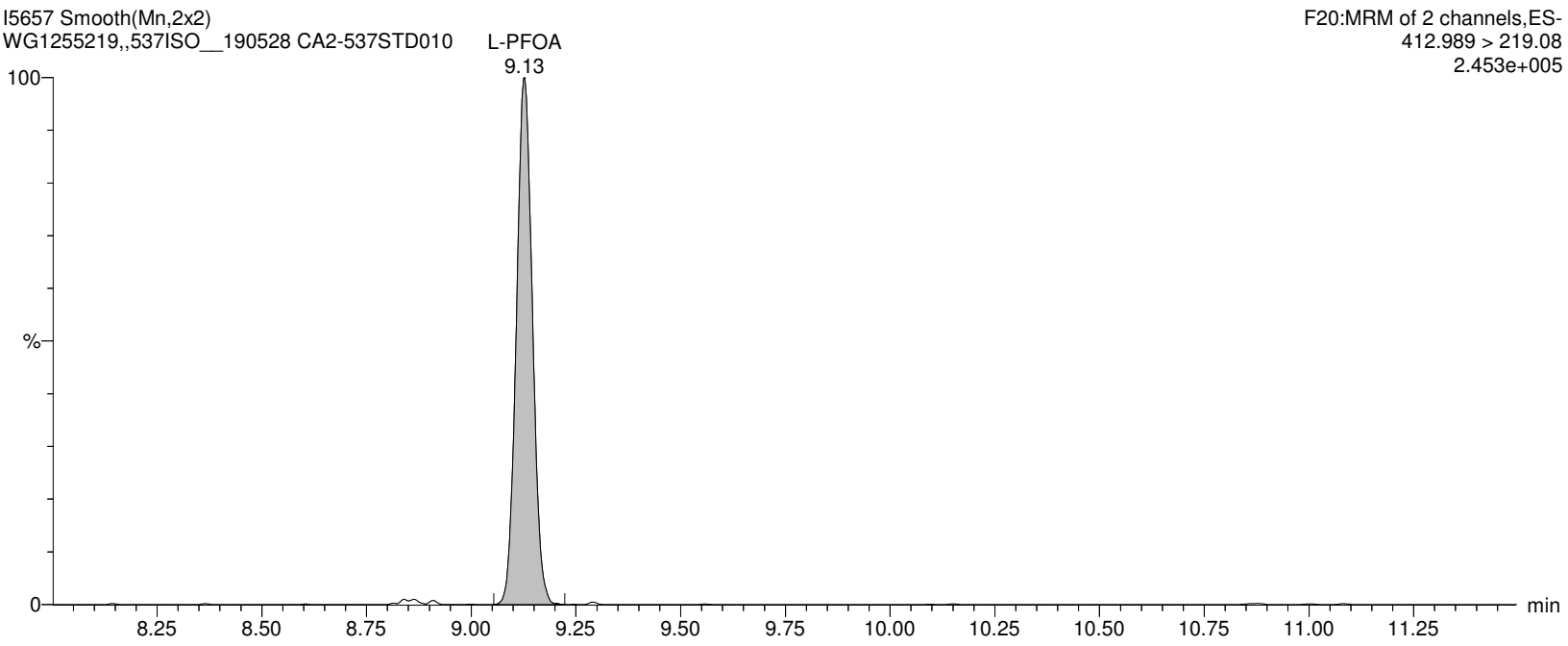
all concentration units in (ng/mL)

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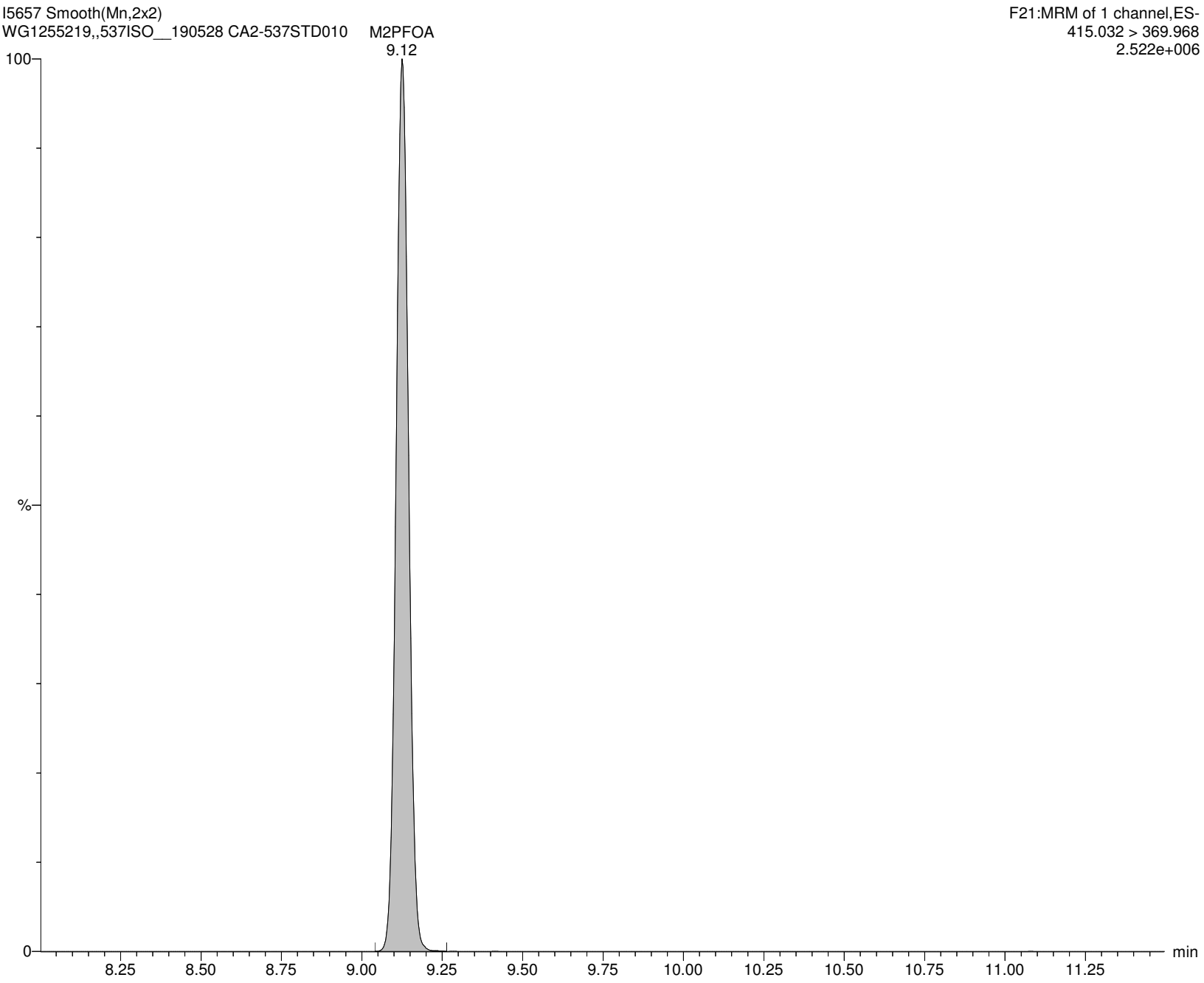


all concentration units in (ng/mL)

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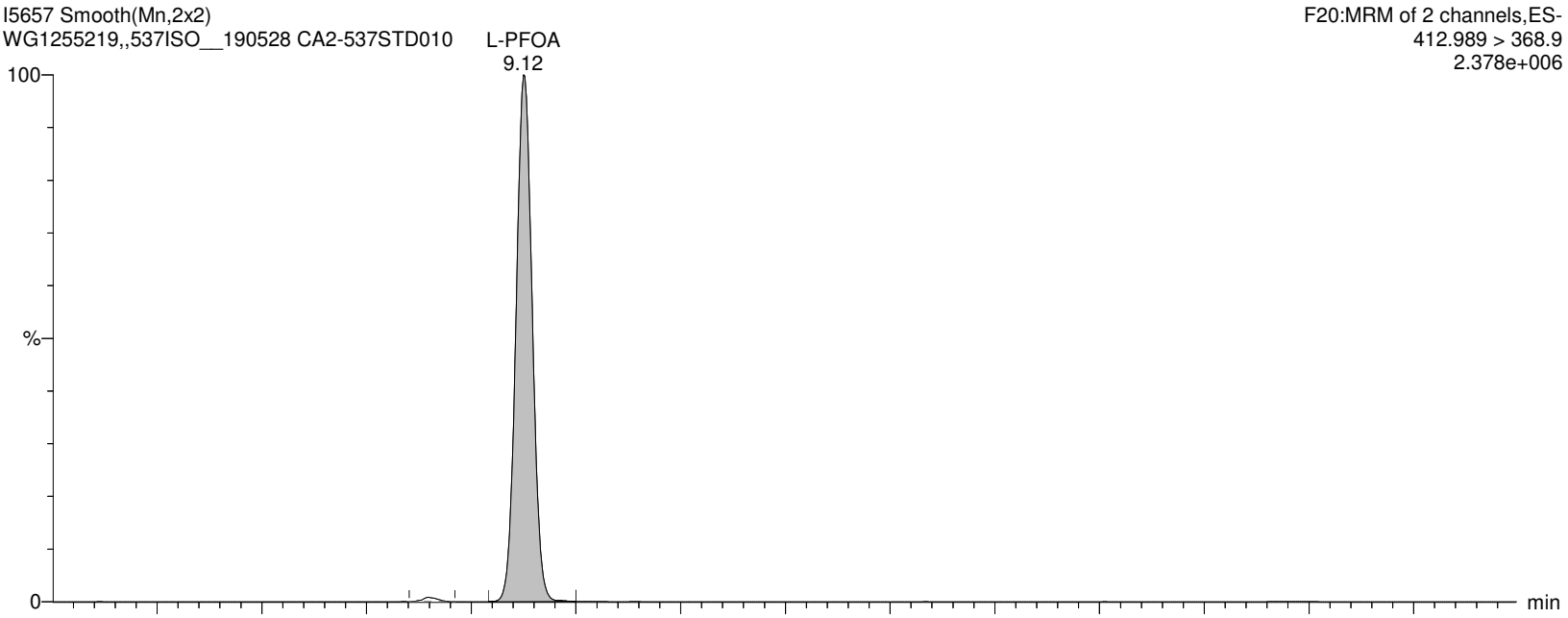


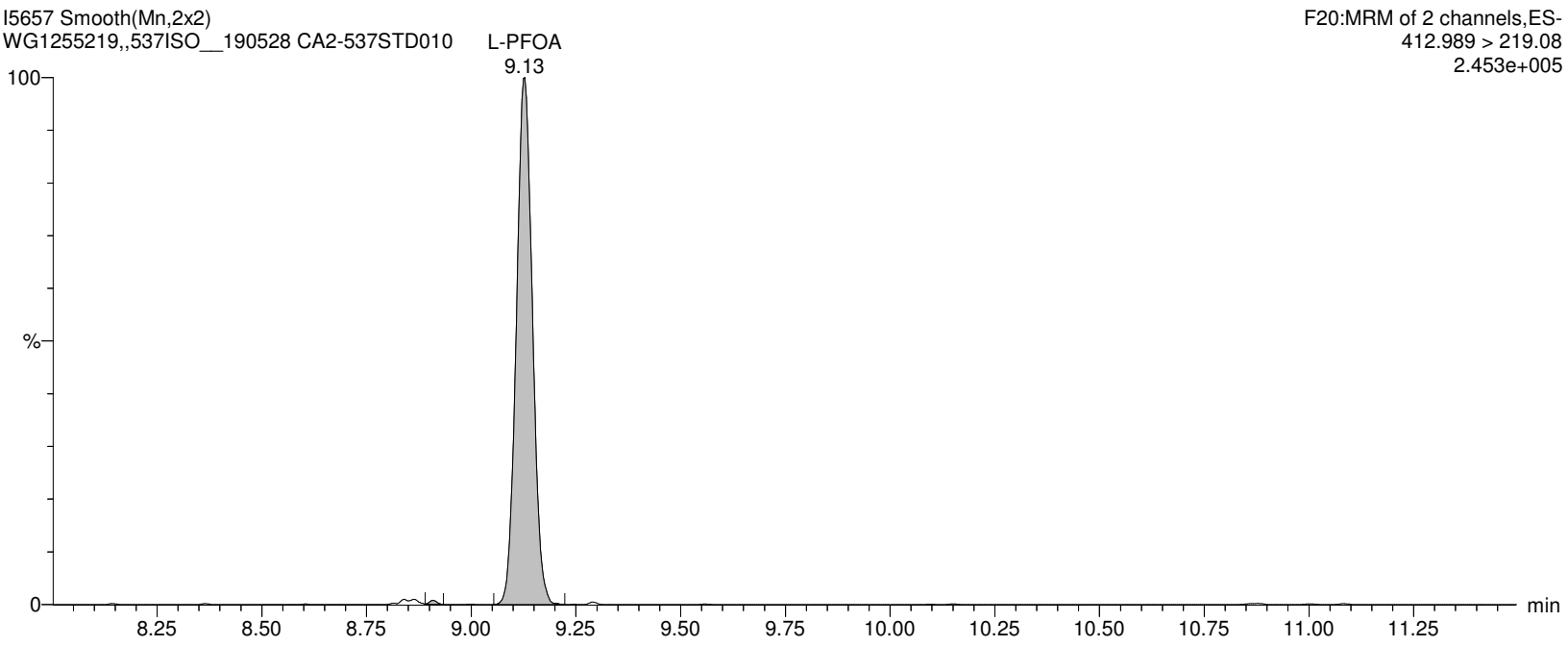
all concentration units in (ng/mL)

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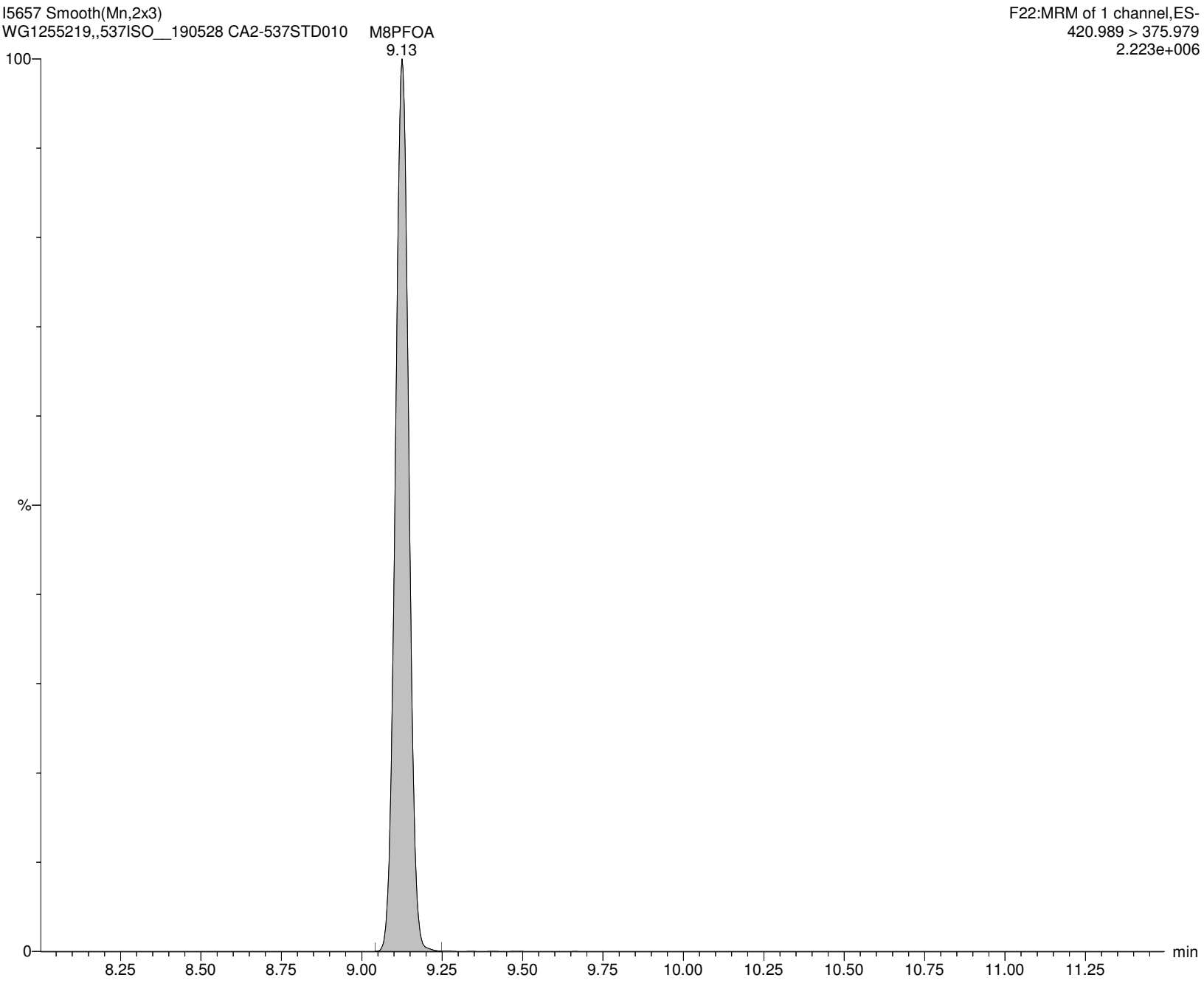


all concentration units in (ng/mL)

Alpha Analytical Inc.
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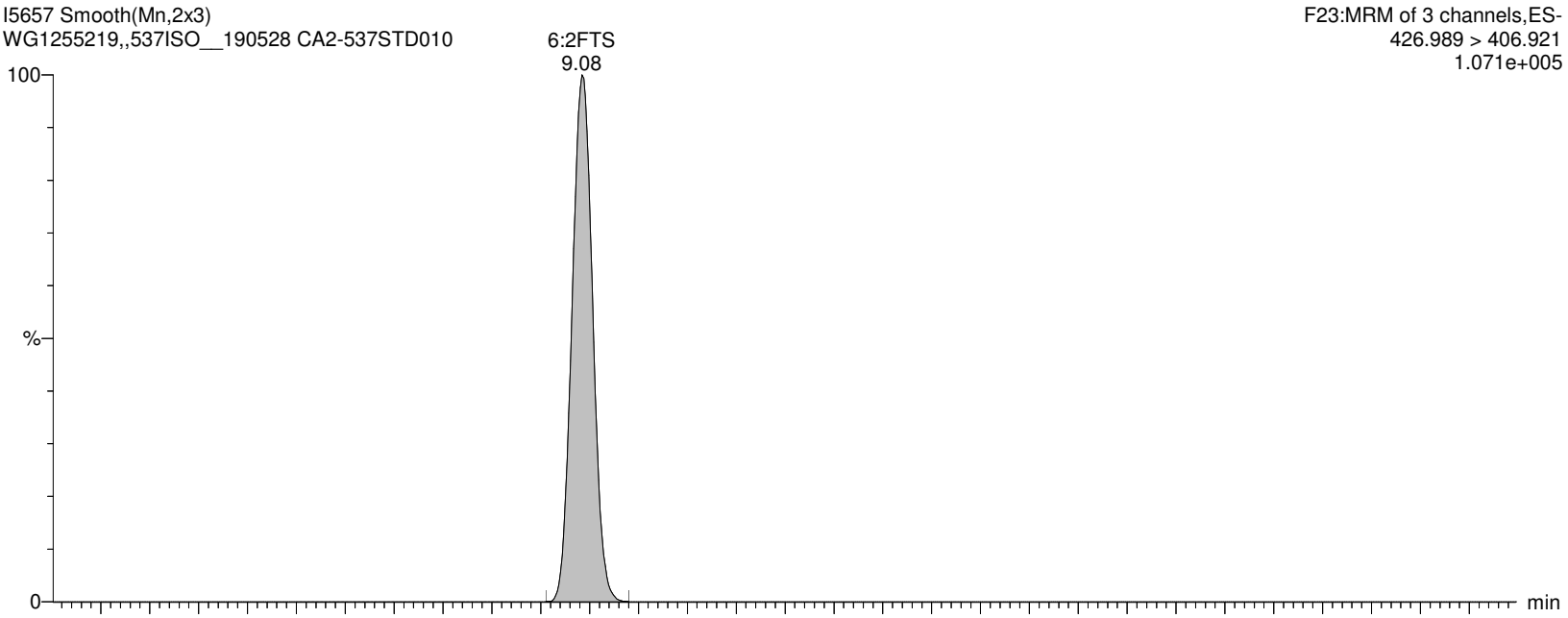


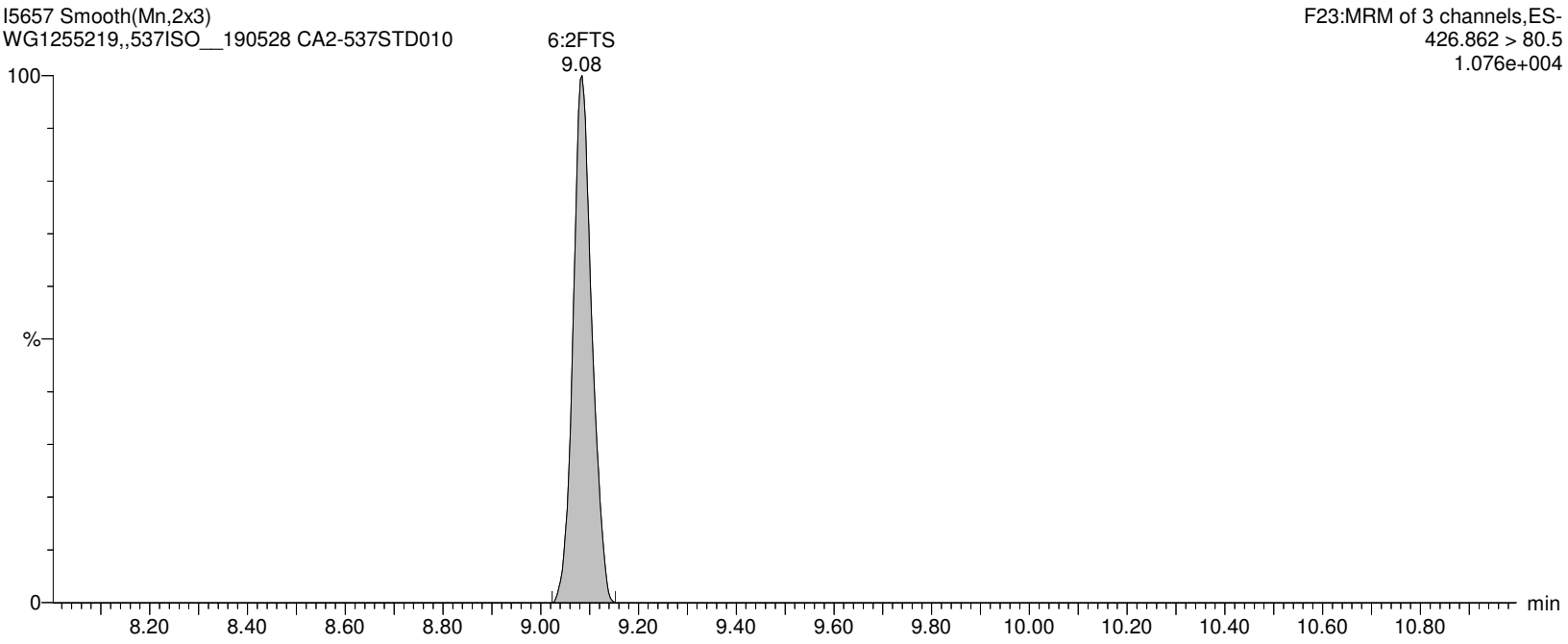
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Time: 10:24:16
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6:2FTS



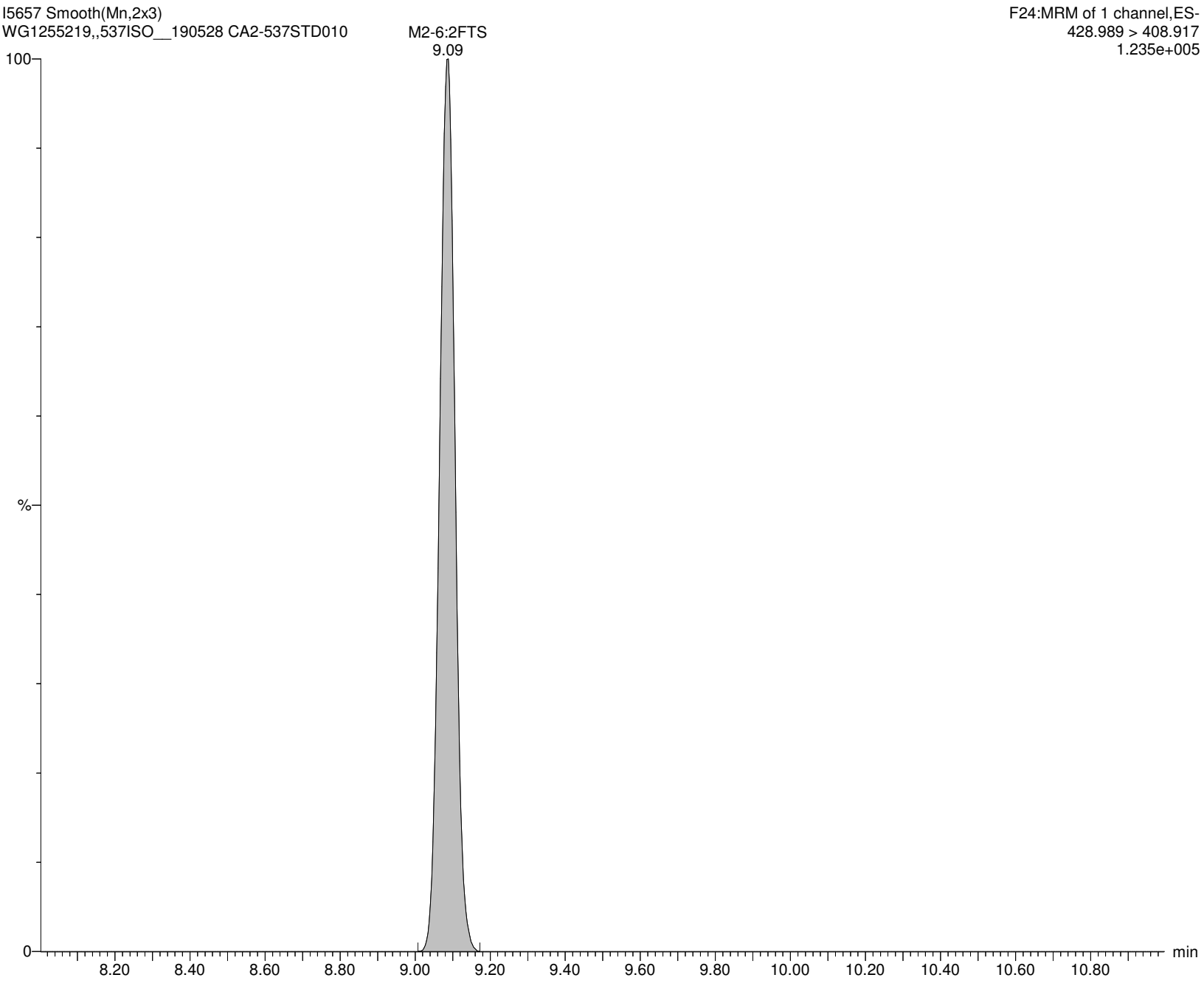


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:12:50 Eastern Daylight Time
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Date: 02-Jul-2019
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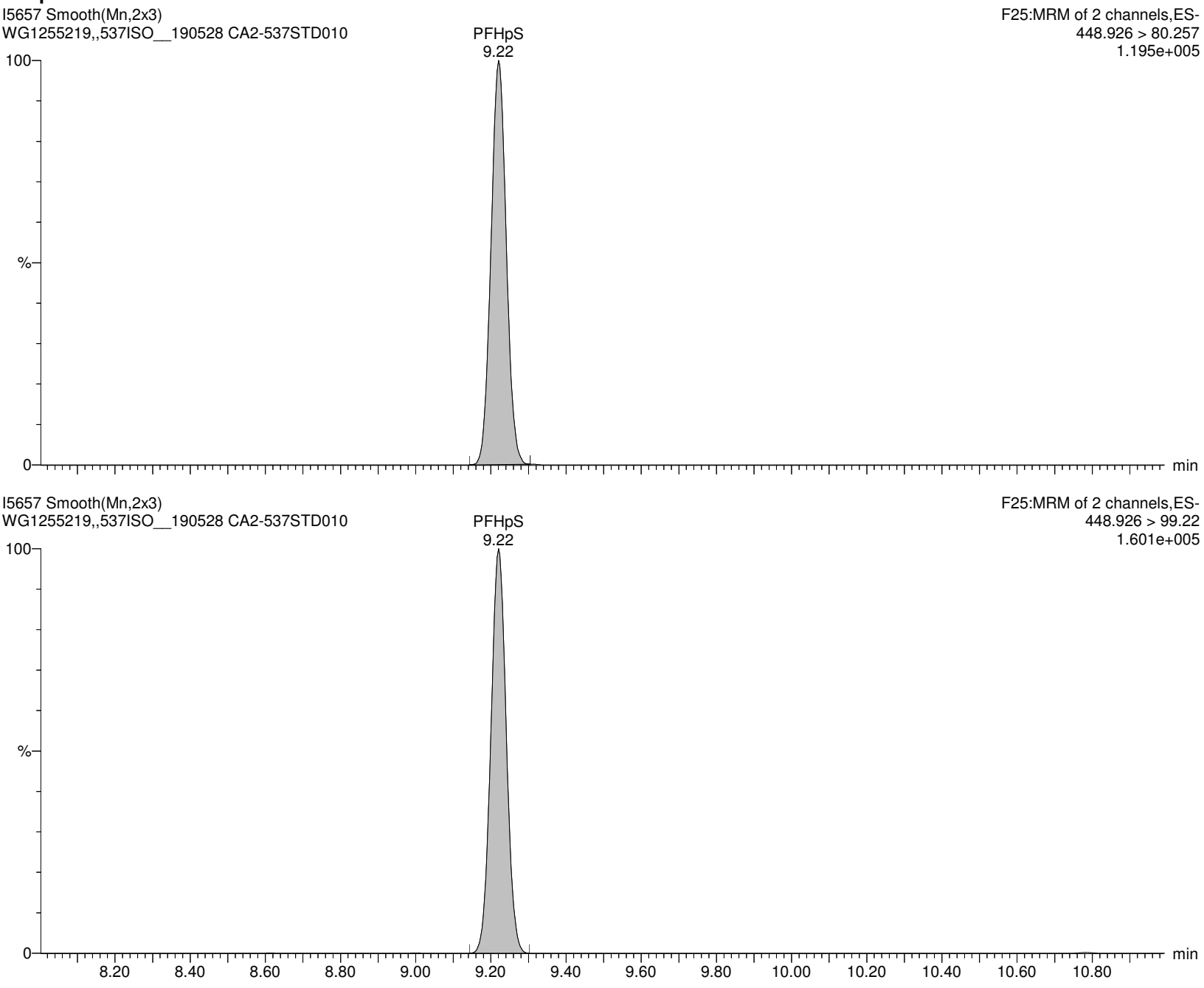


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Date: 02-Jul-2019
Time: 10:24:16
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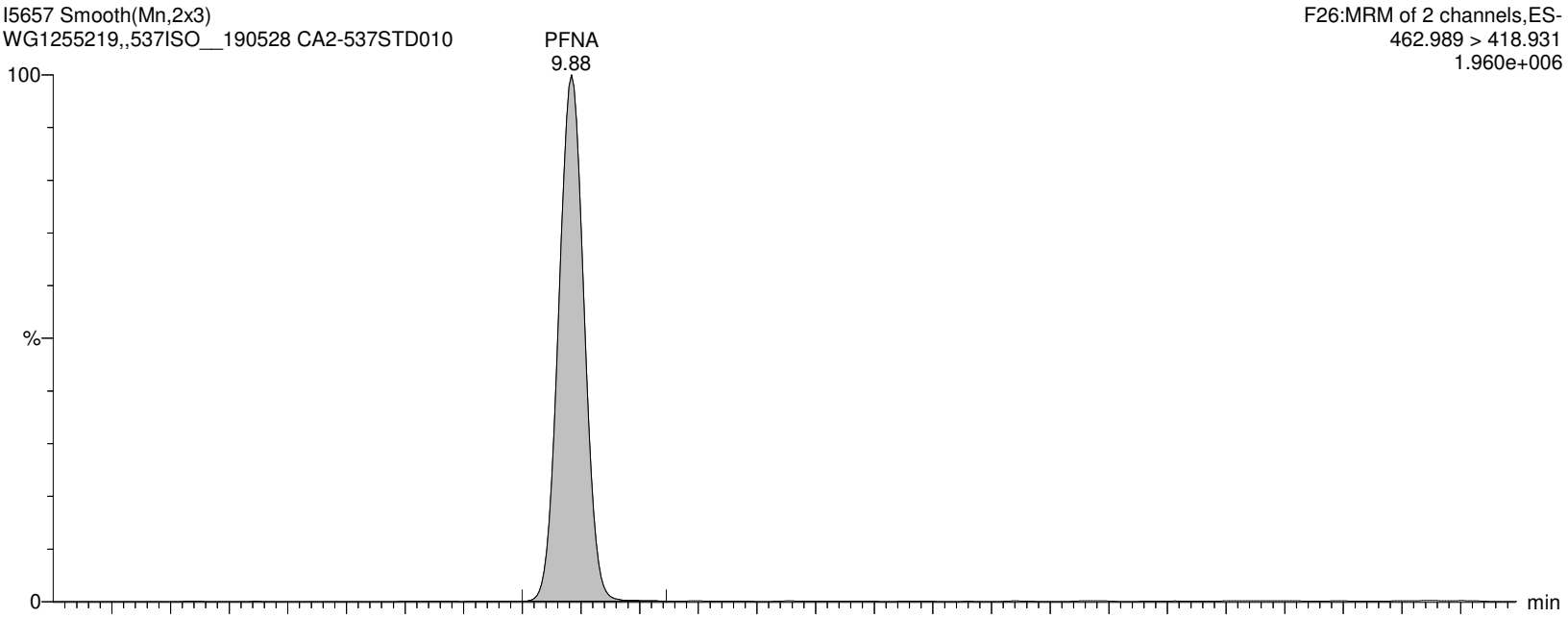


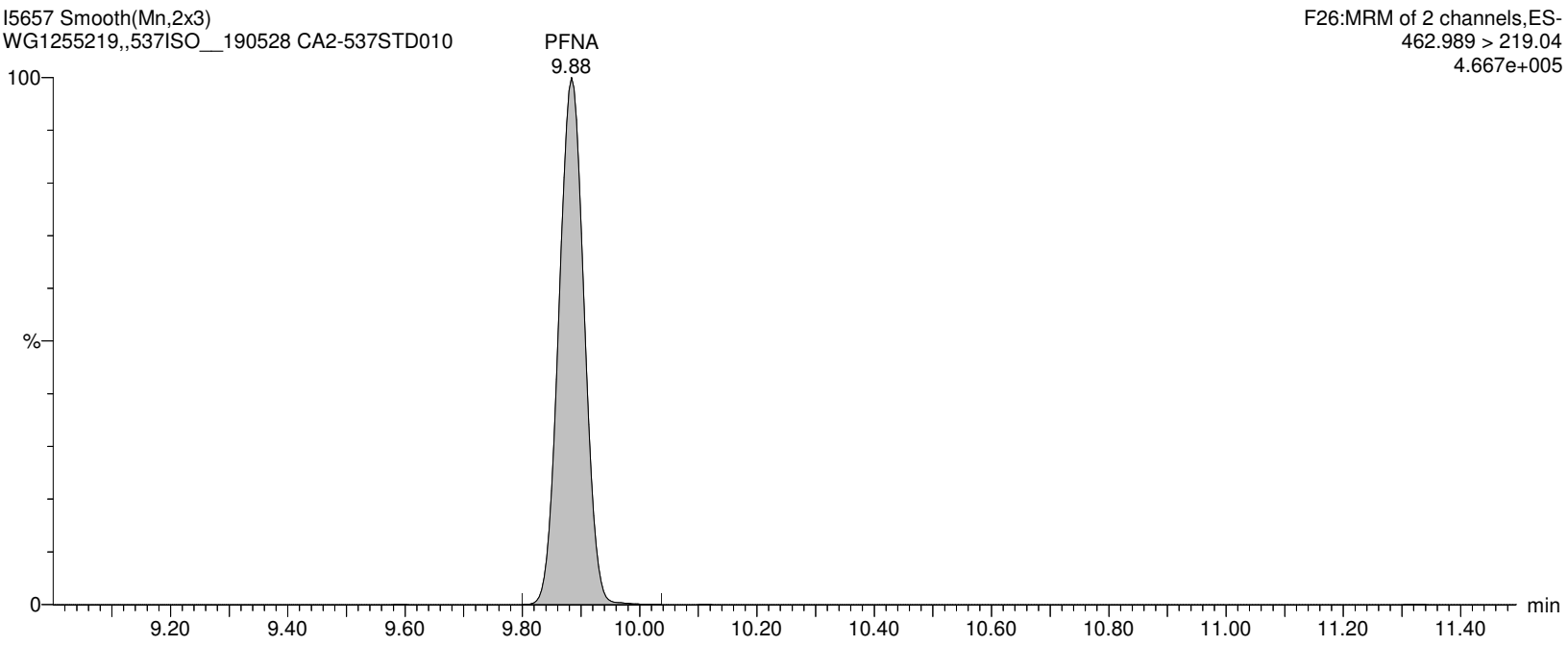
all concentration units in (ng/mL)

Alpha Analytical Inc.
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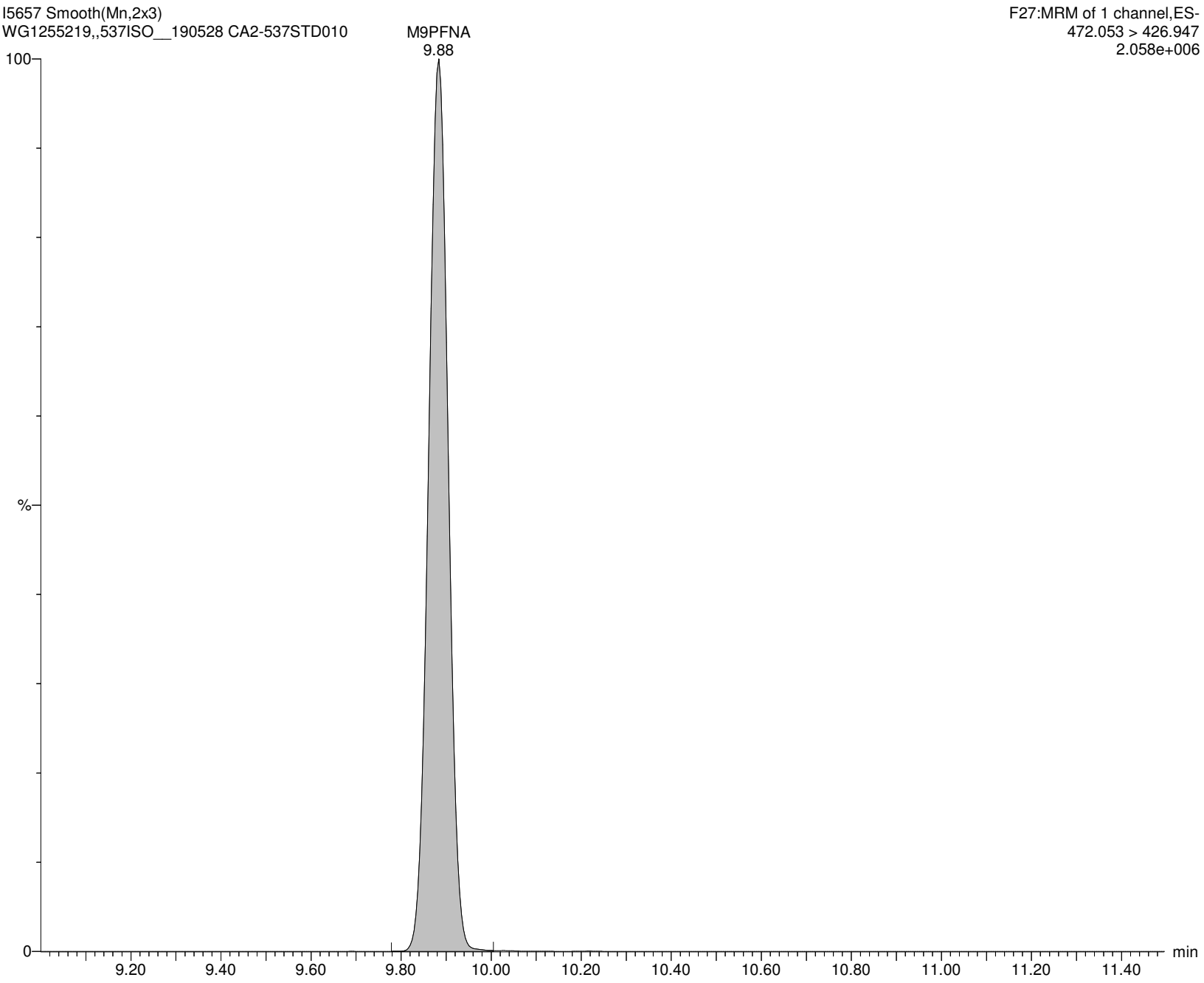


all concentration units in (ng/mL)

Alpha Analytical Inc.
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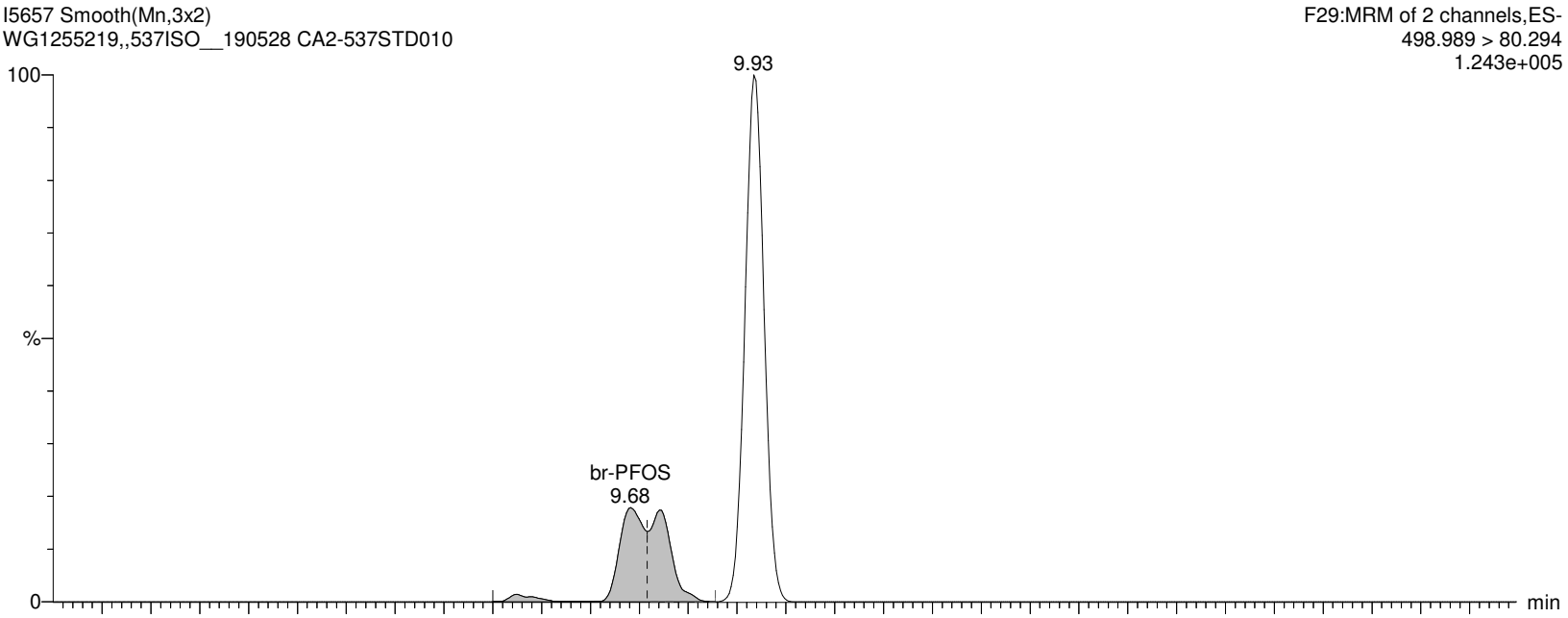


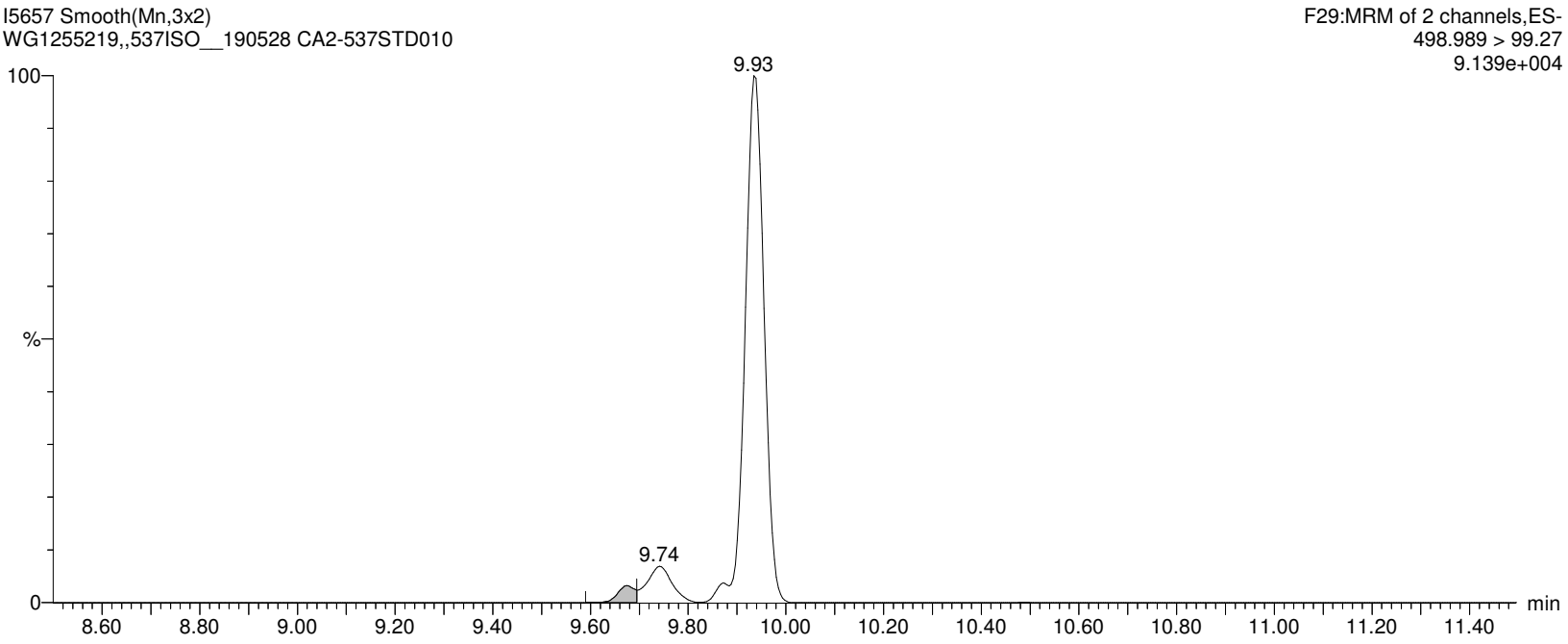
all concentration units in (ng/mL)

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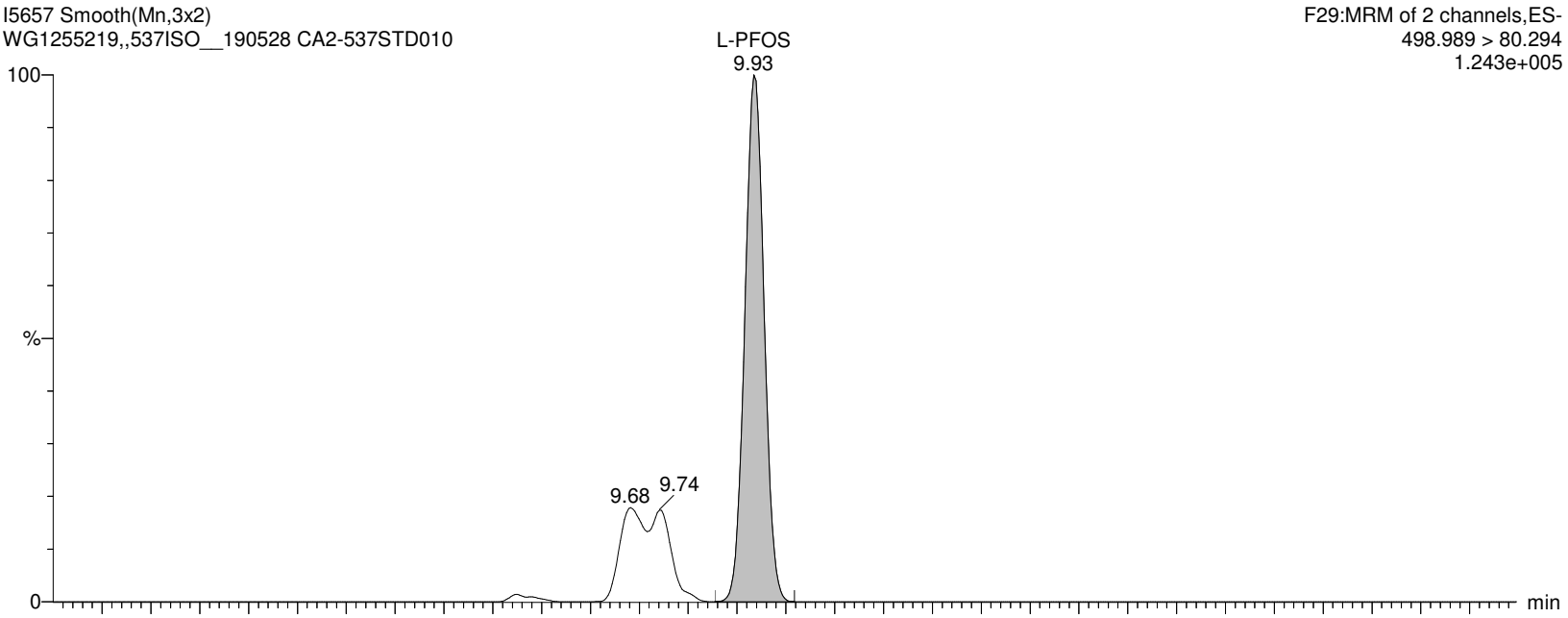


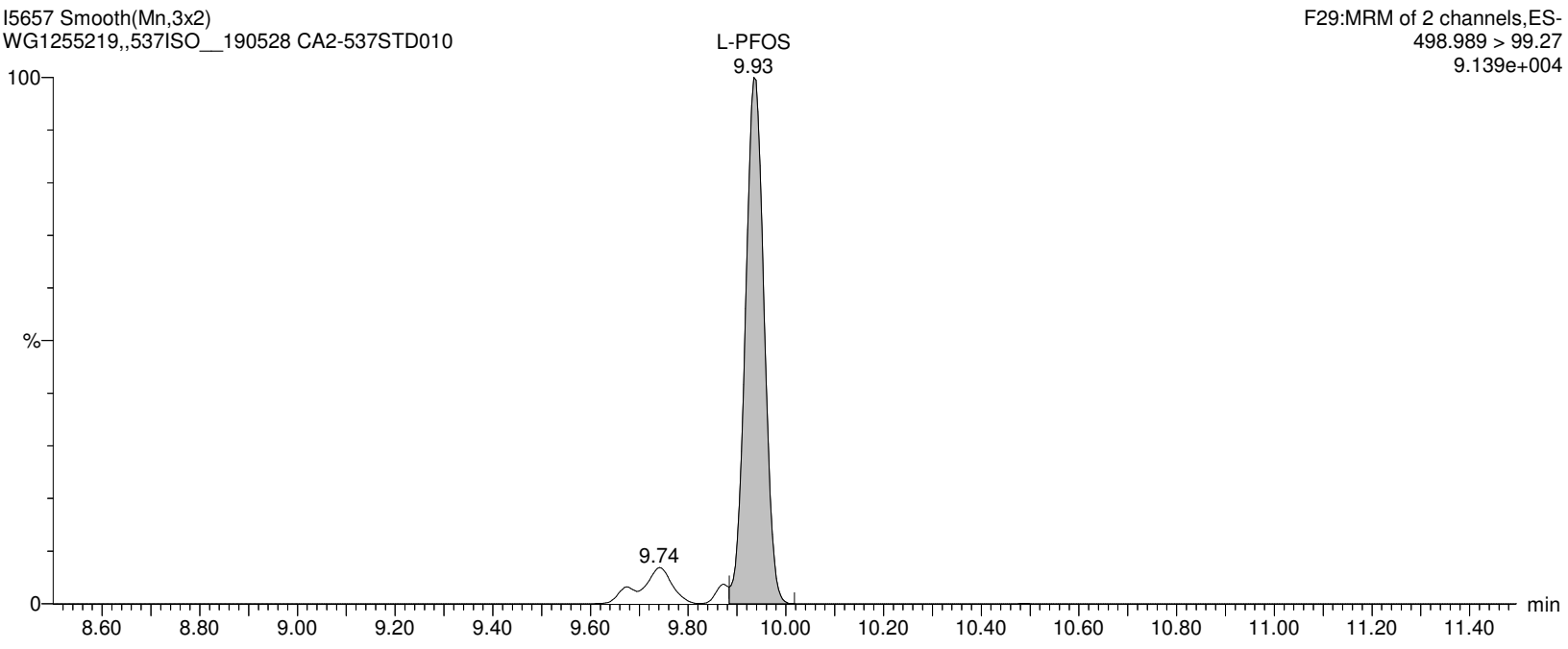
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L-PFOS



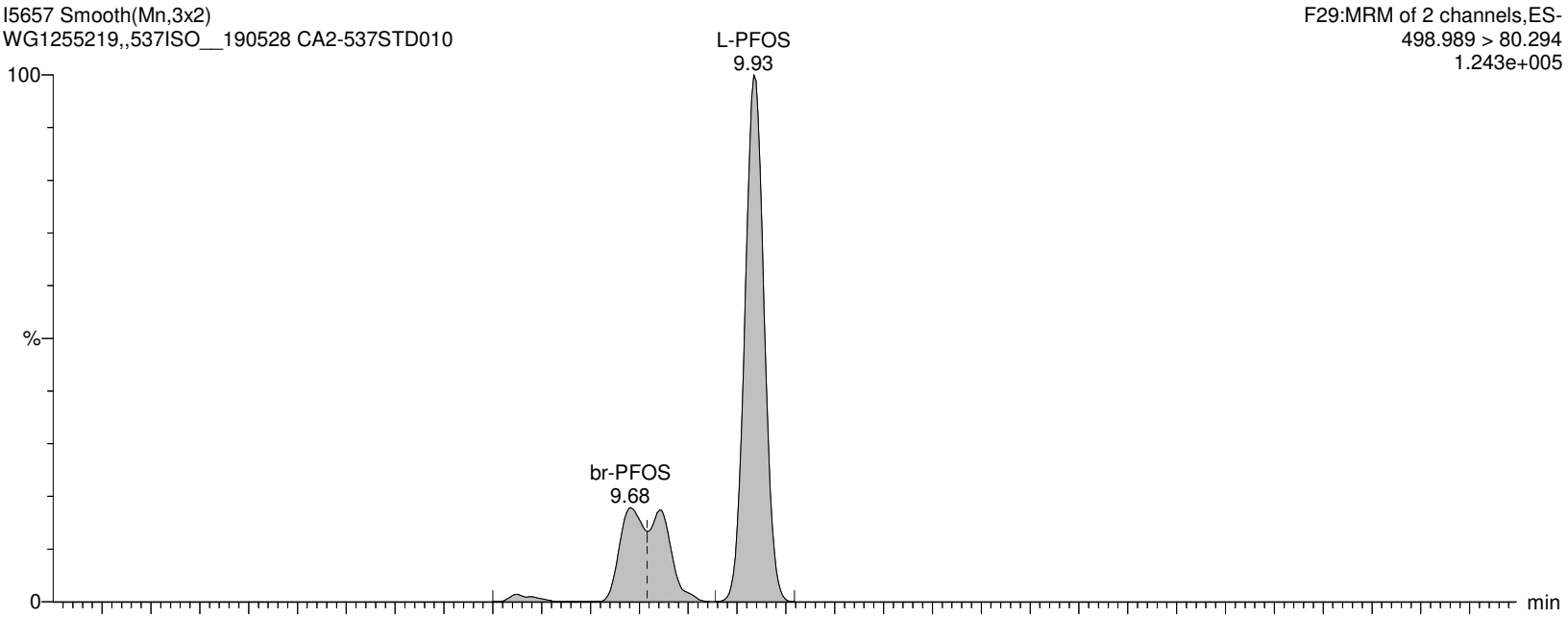


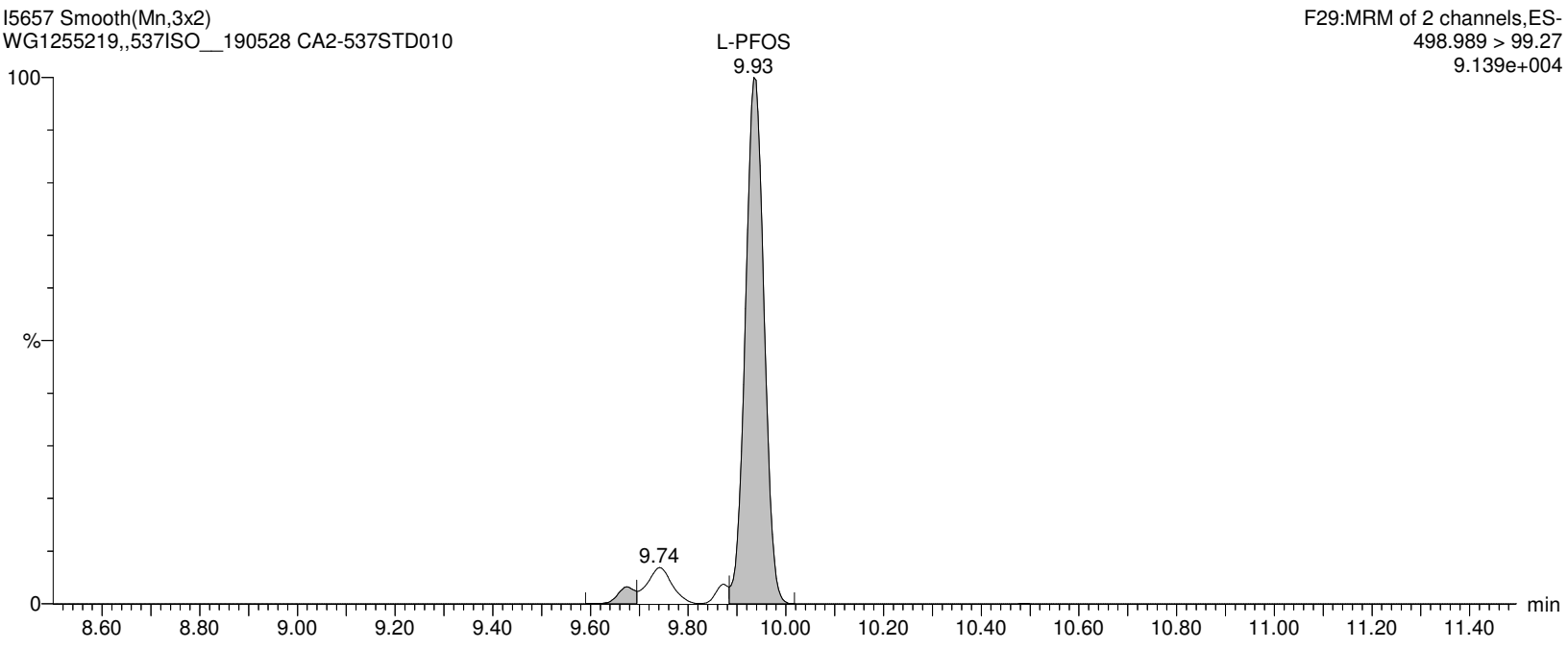
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PFOS



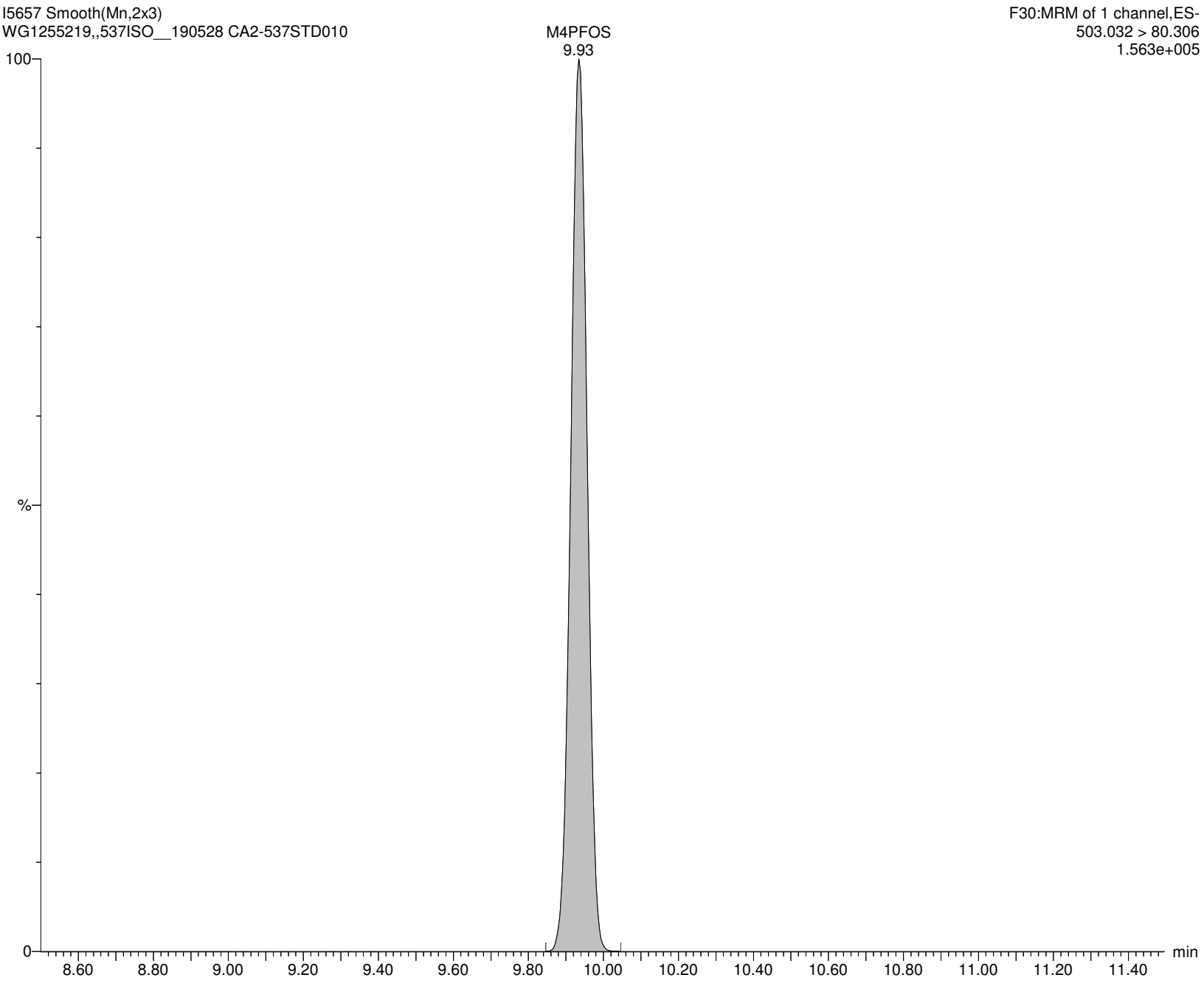


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICV.qld
Last Altered: Tuesday, July 02, 2019 11:12:50 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:13:26 Eastern Daylight Time

Name: I5657
ID: CA2-537STD010
Date: 02-Jul-2019
Time: 10:24:16
Description: WG1255219,,537ISO__190528
User: LCMS02:JW
Vial: 1:B,2
Instrument: XEVO-TQSmicro#QEB0050
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Tune Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\181009_TUNE.IPR
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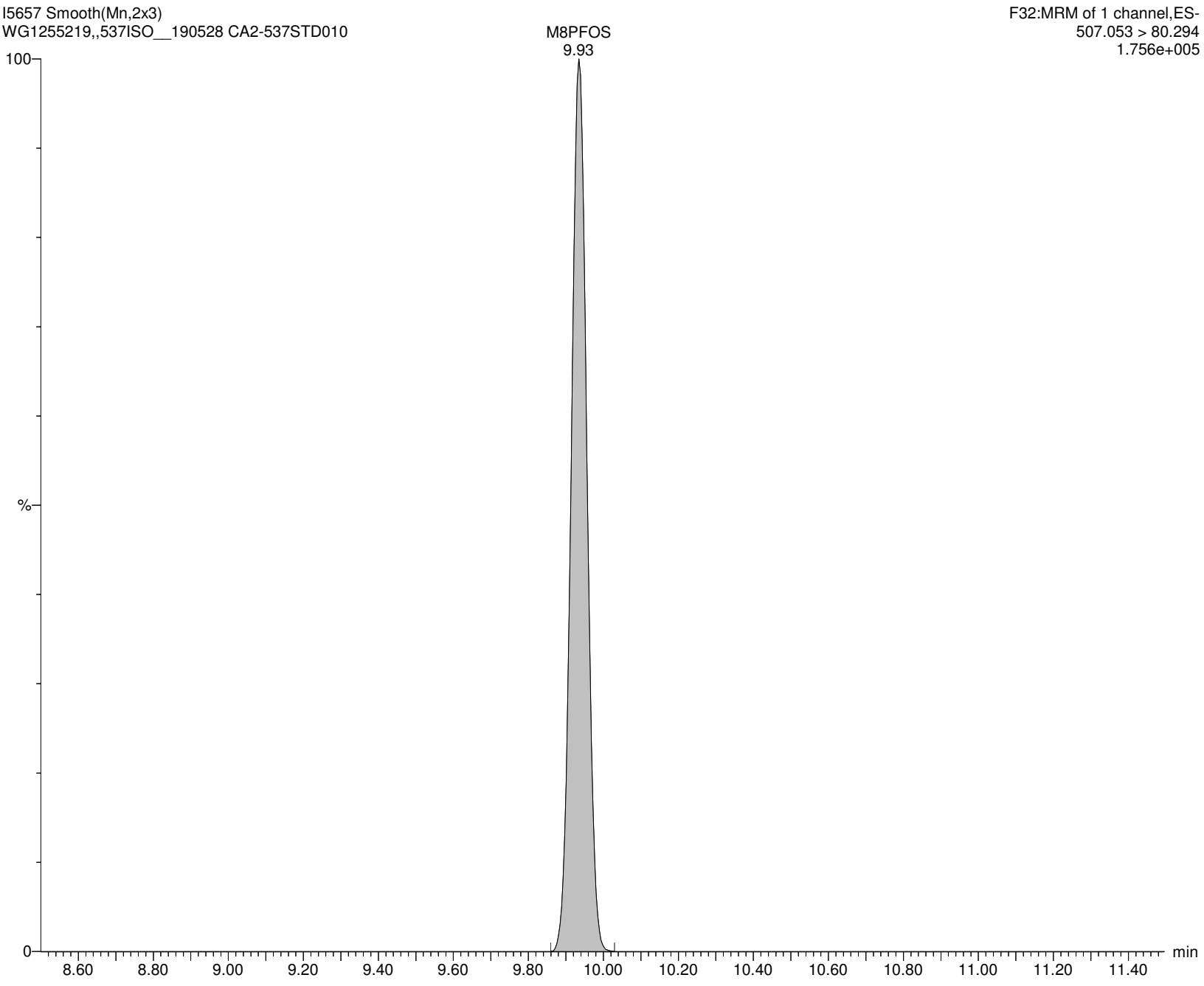


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICV.qld
Last Altered: Tuesday, July 02, 2019 11:12:50 Eastern Daylight Time
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Name: I5657
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Date: 02-Jul-2019
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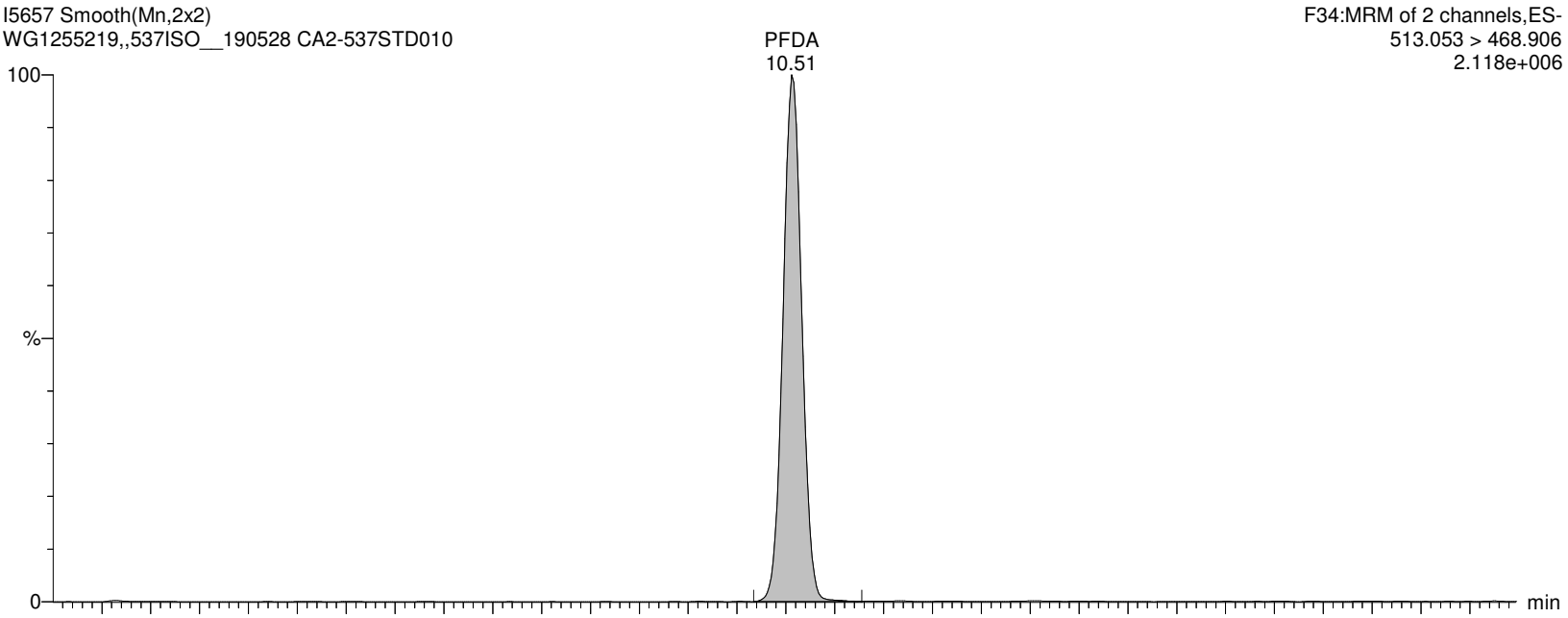


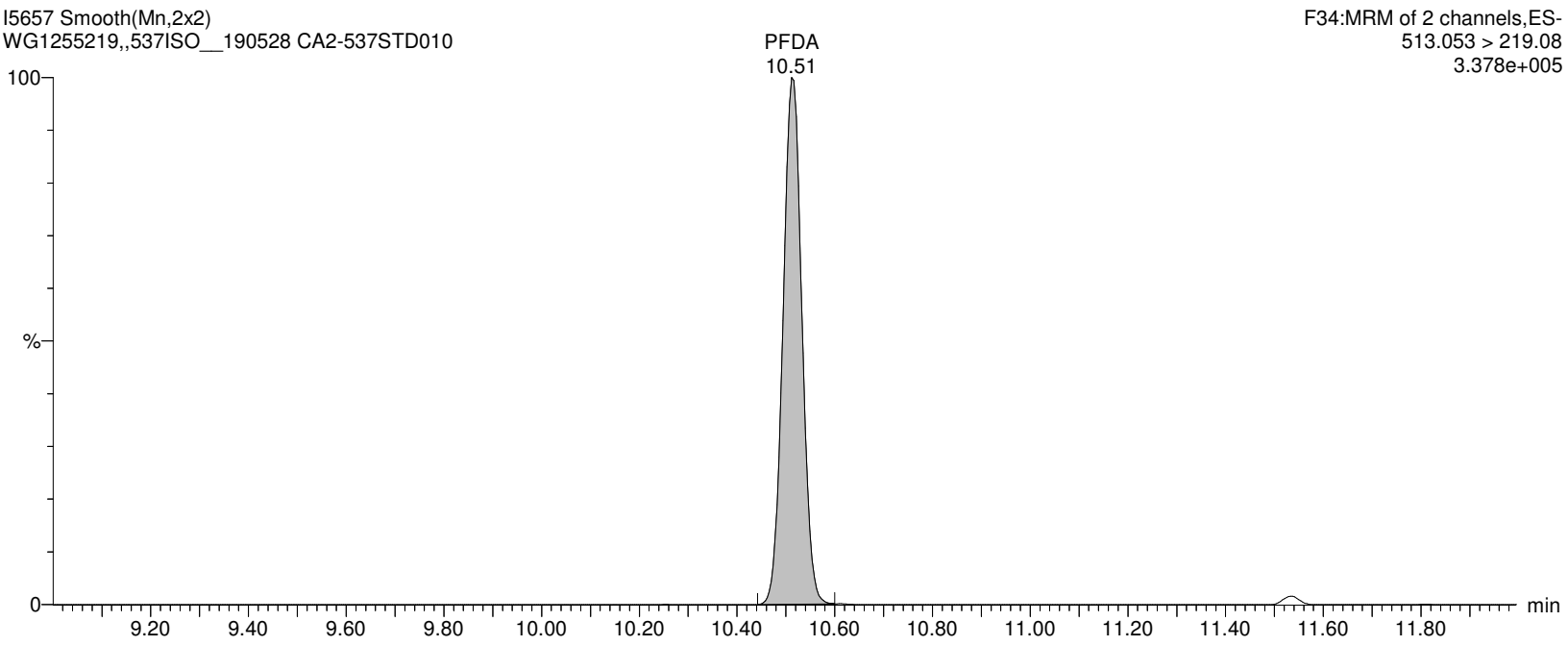
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:12:50 Eastern Daylight Time
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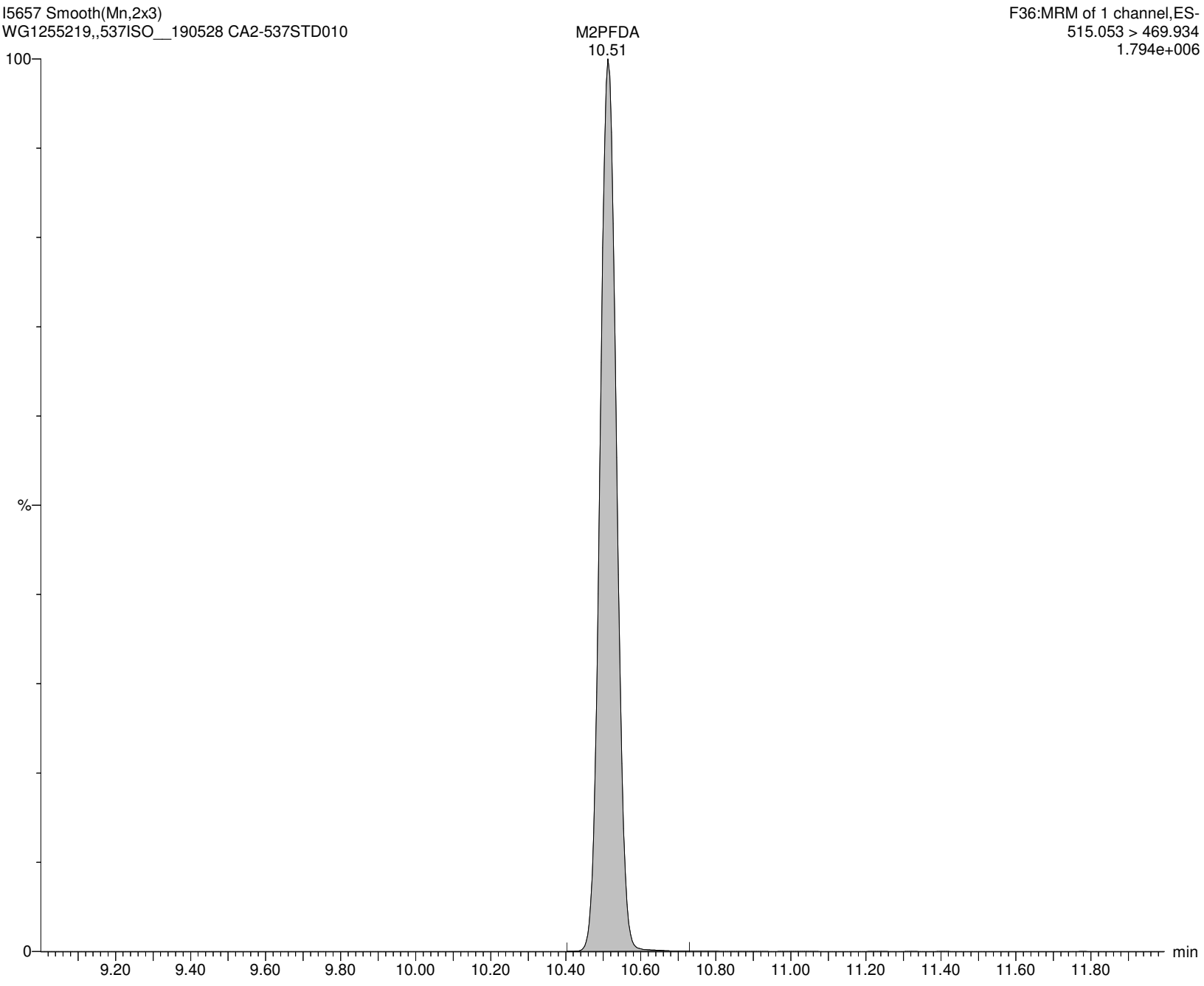


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:12:50 Eastern Daylight Time
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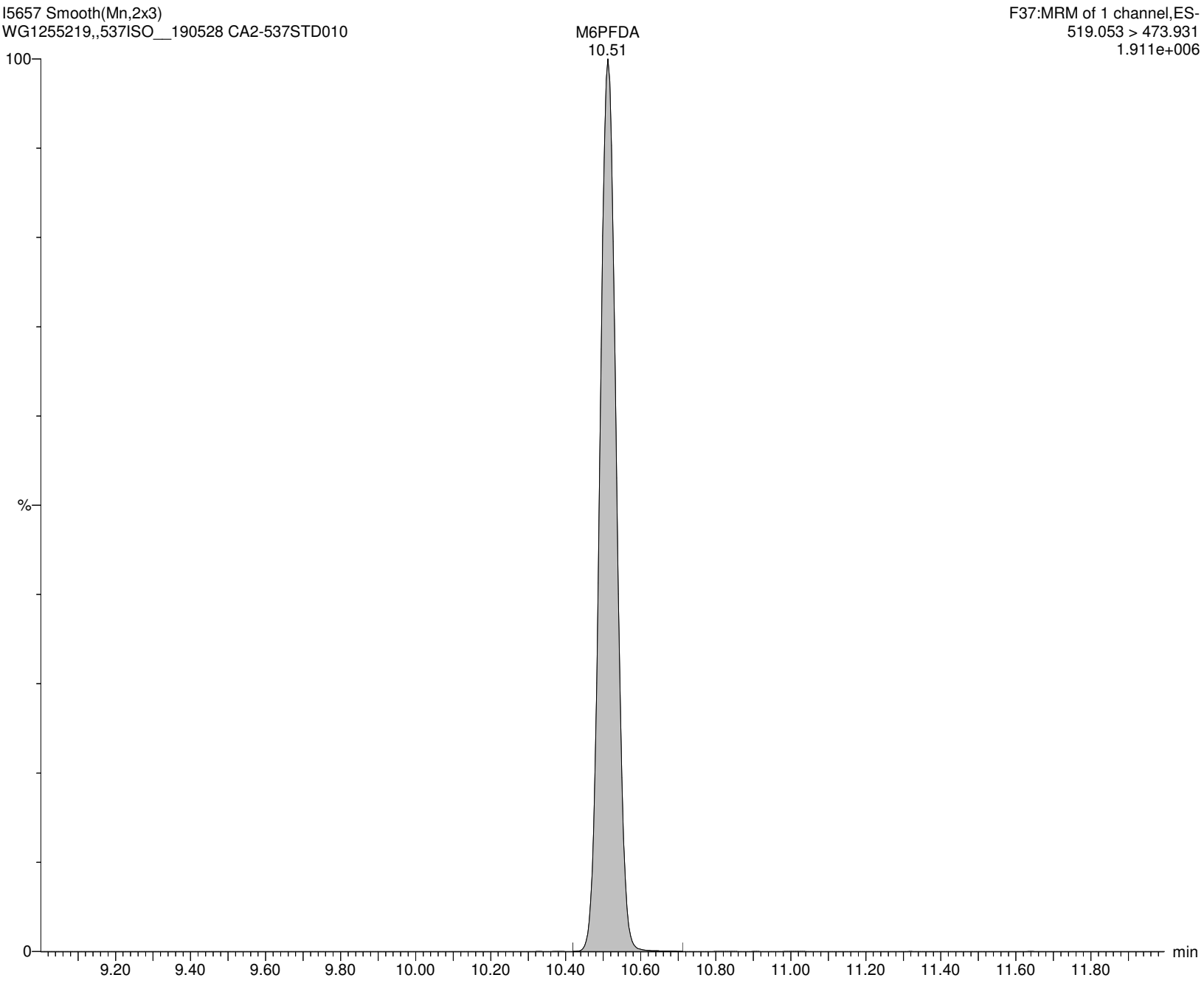


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:12:50 Eastern Daylight Time
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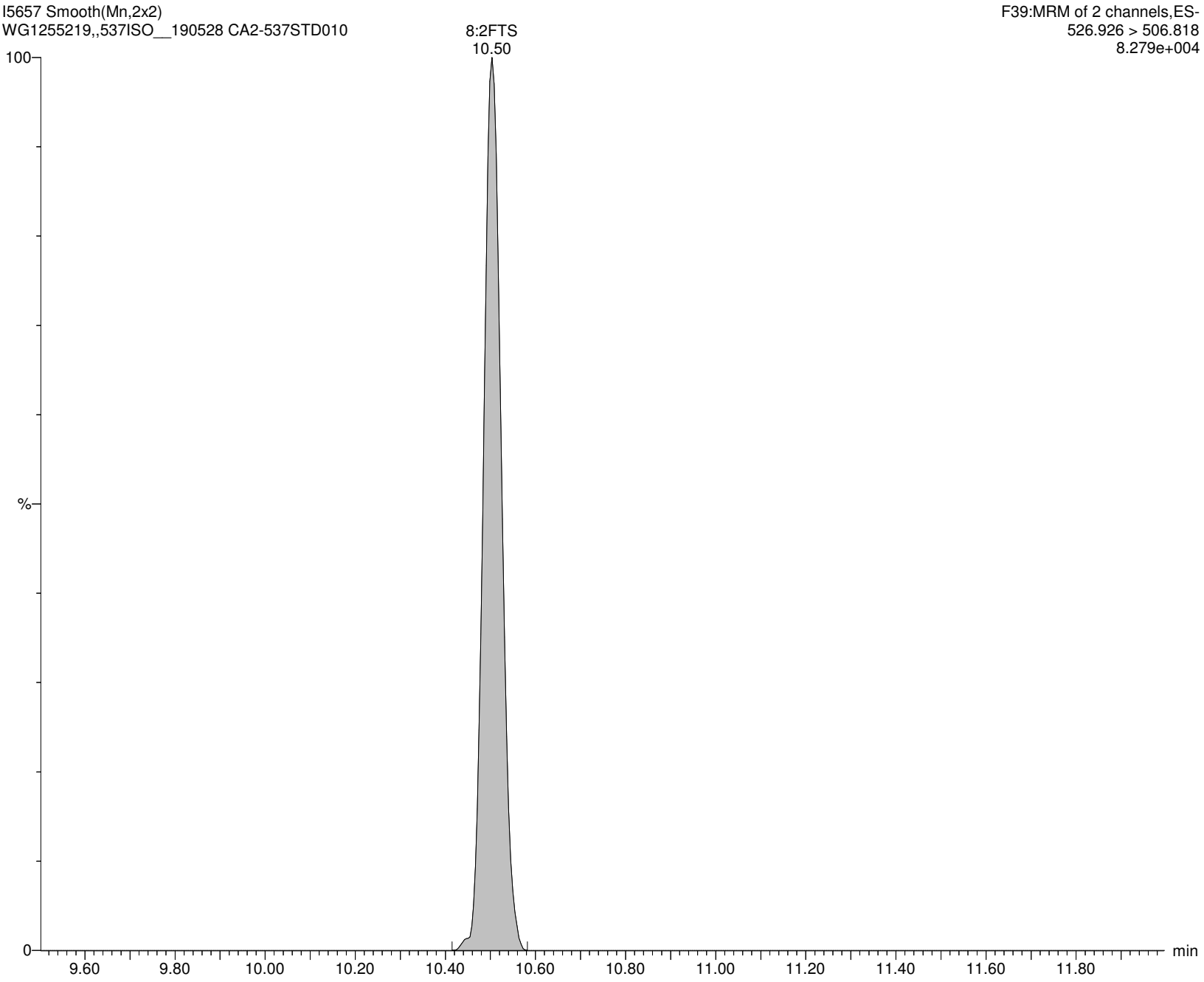


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICV.qld
Last Altered: Tuesday, July 02, 2019 11:12:50 Eastern Daylight Time
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8:2FTS

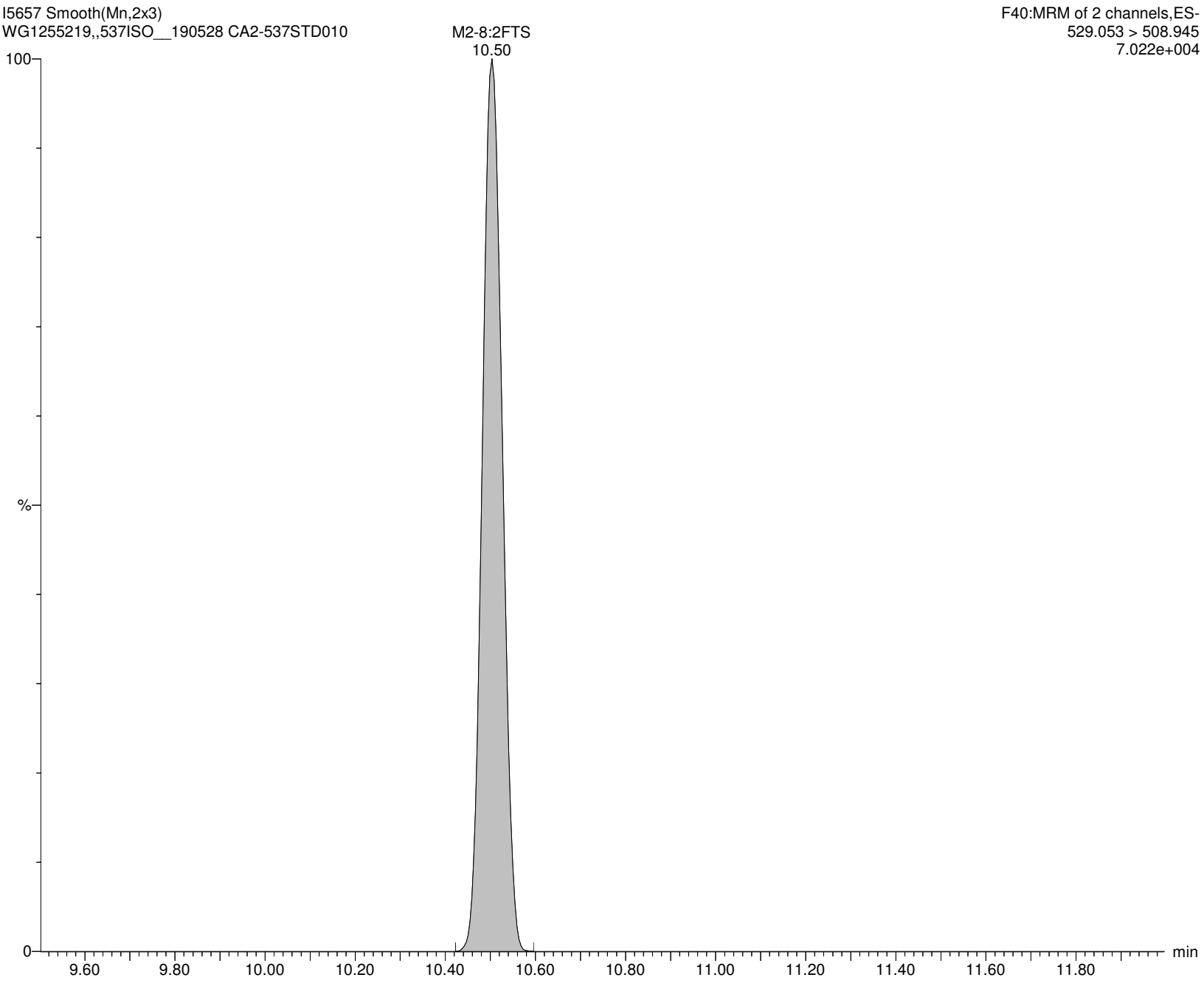


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICV.qld
Last Altered: Tuesday, July 02, 2019 11:12:50 Eastern Daylight Time
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Date: 02-Jul-2019
Time: 10:24:16
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M2-8:2FTS

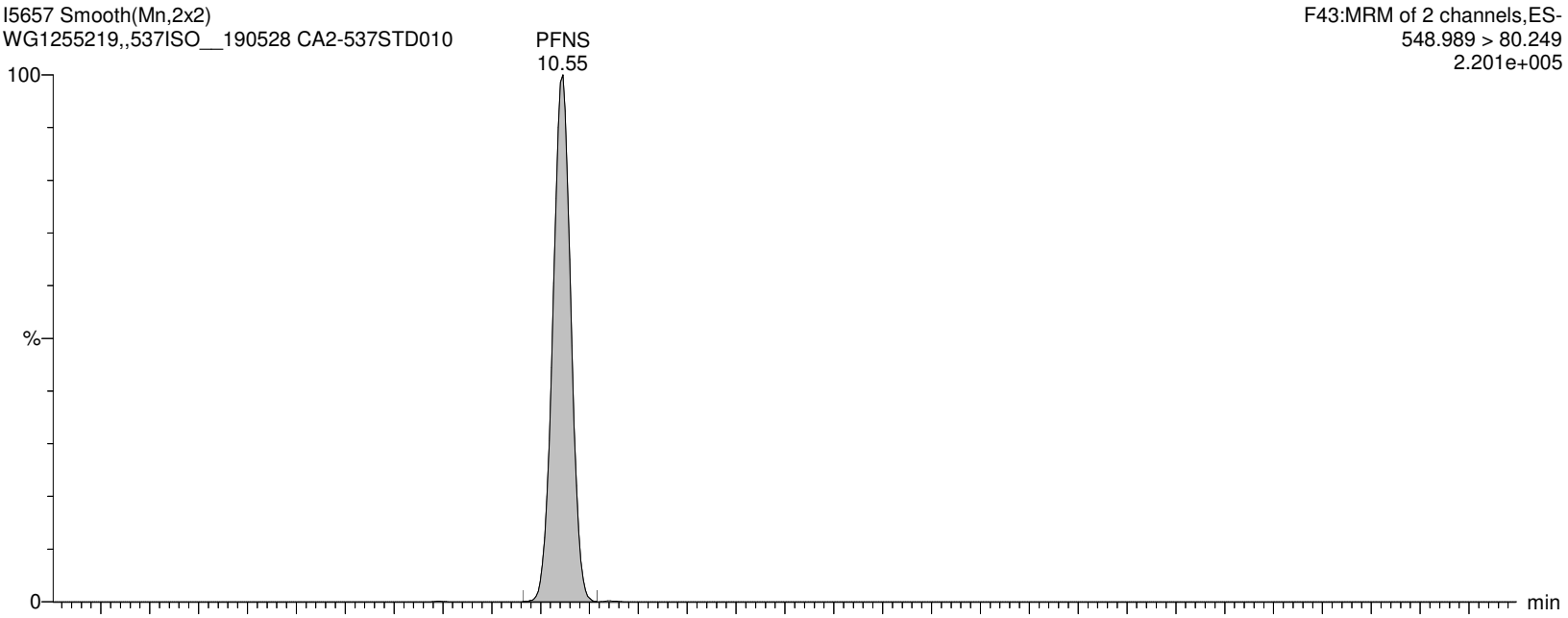


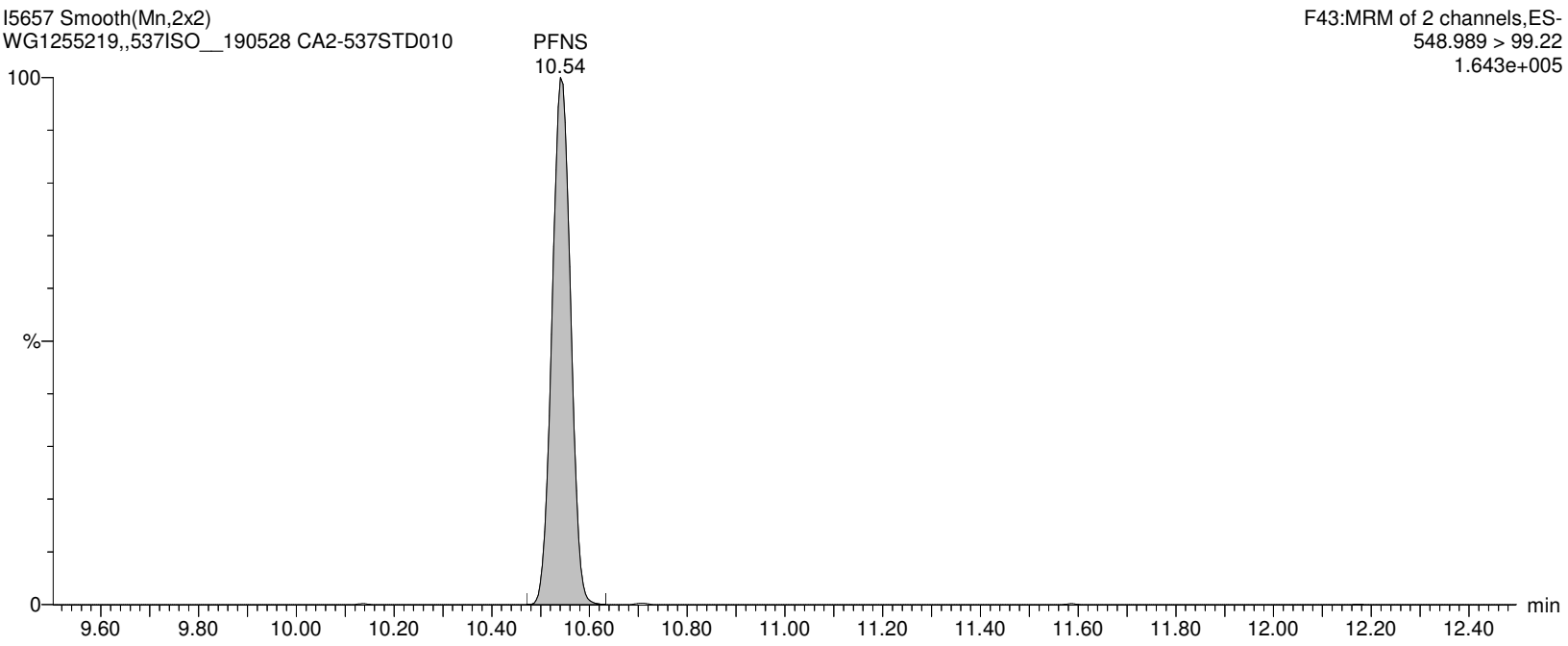
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICV.qld
Last Altered: Tuesday, July 02, 2019 11:12:50 Eastern Daylight Time
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Date: 02-Jul-2019
Time: 10:24:16
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PFNS



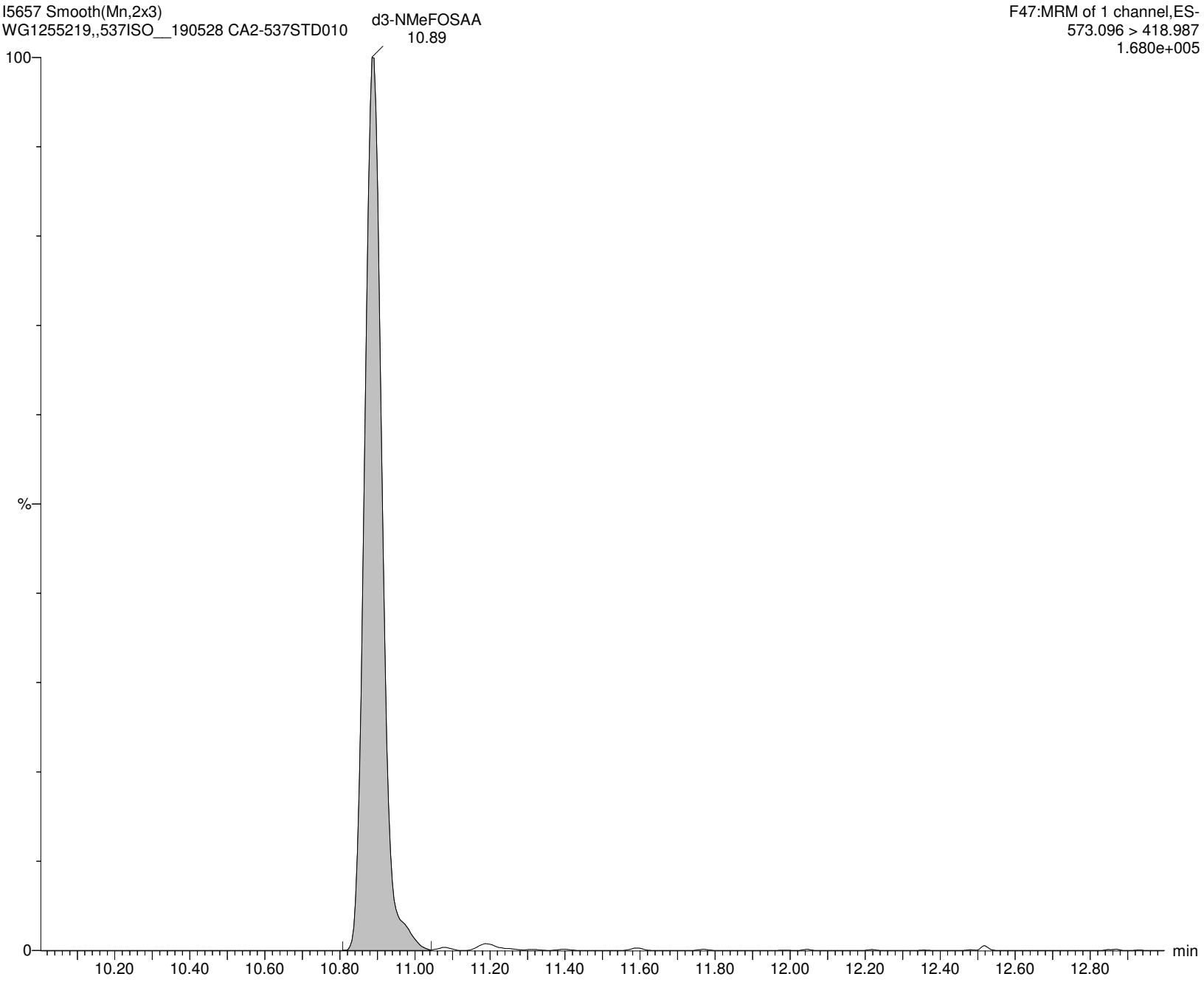


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICV.qld
Last Altered: Tuesday, July 02, 2019 11:12:50 Eastern Daylight Time
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Name: I5657
ID: CA2-537STD010
Date: 02-Jul-2019
Time: 10:24:16
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d3-NMeFOSAA

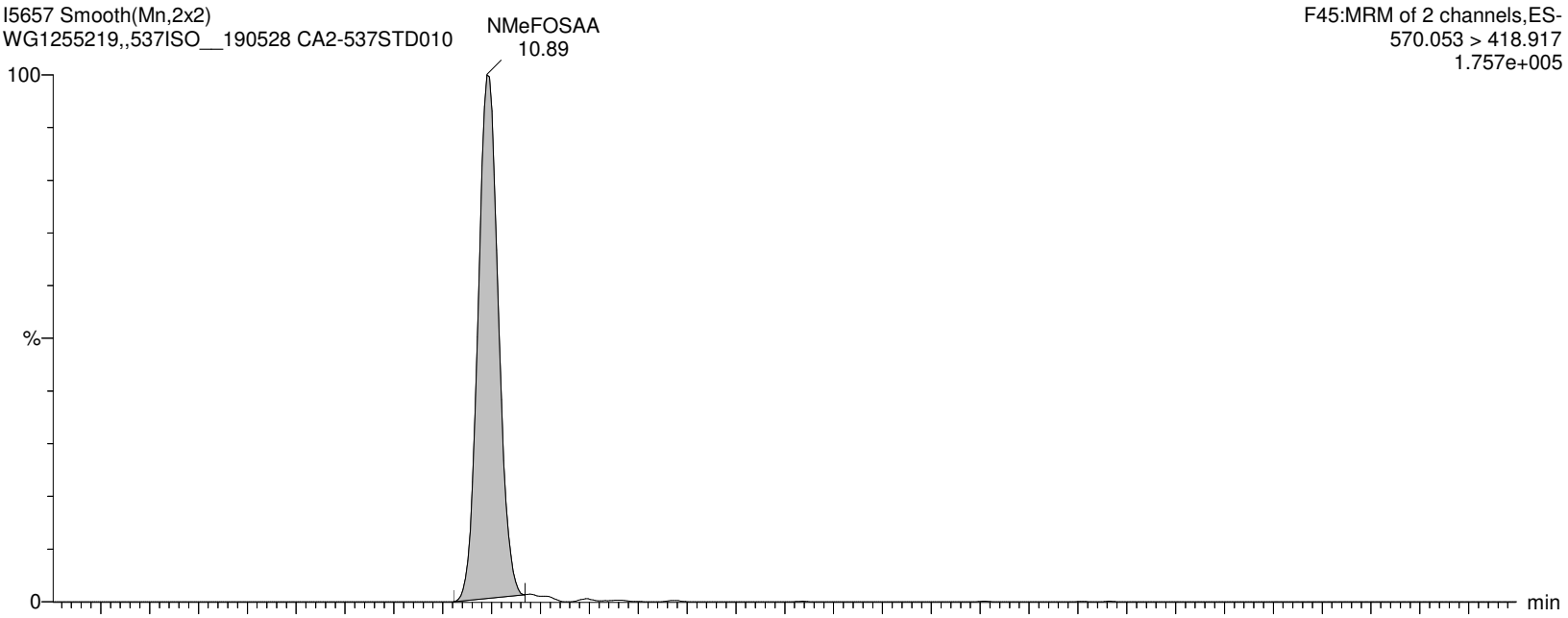


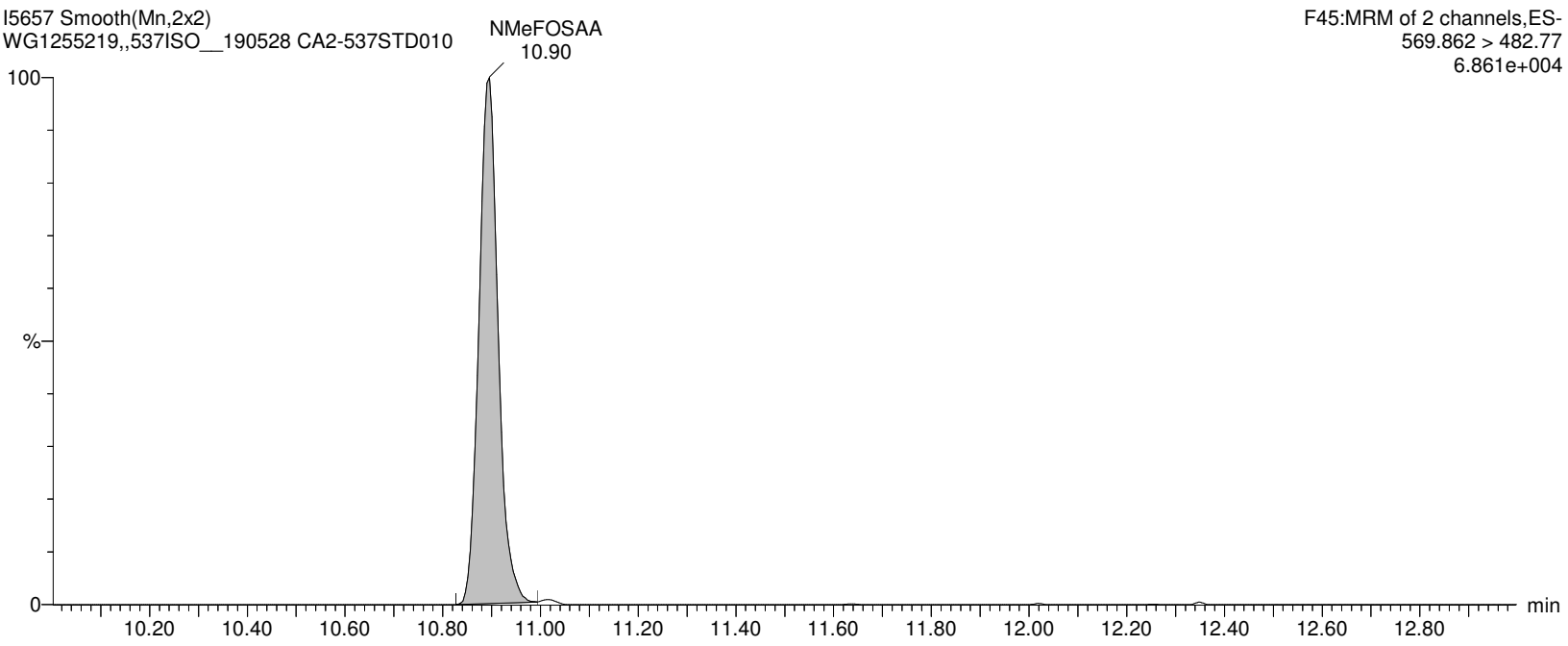
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICV.qld
Last Altered: Tuesday, July 02, 2019 11:12:50 Eastern Daylight Time
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Name: I5657
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Date: 02-Jul-2019
Time: 10:24:16
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NMeFOSAA



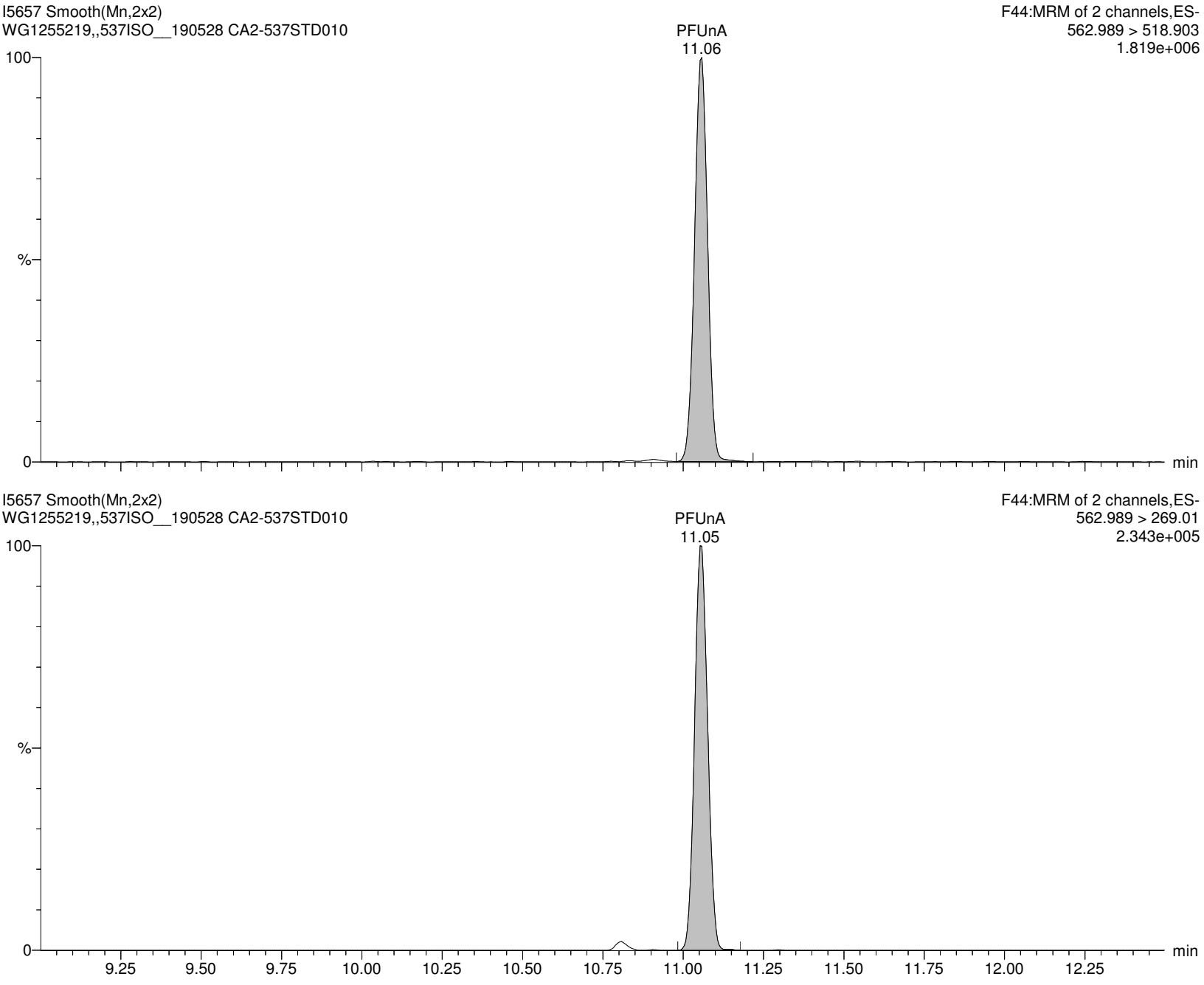


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:12:50 Eastern Daylight Time
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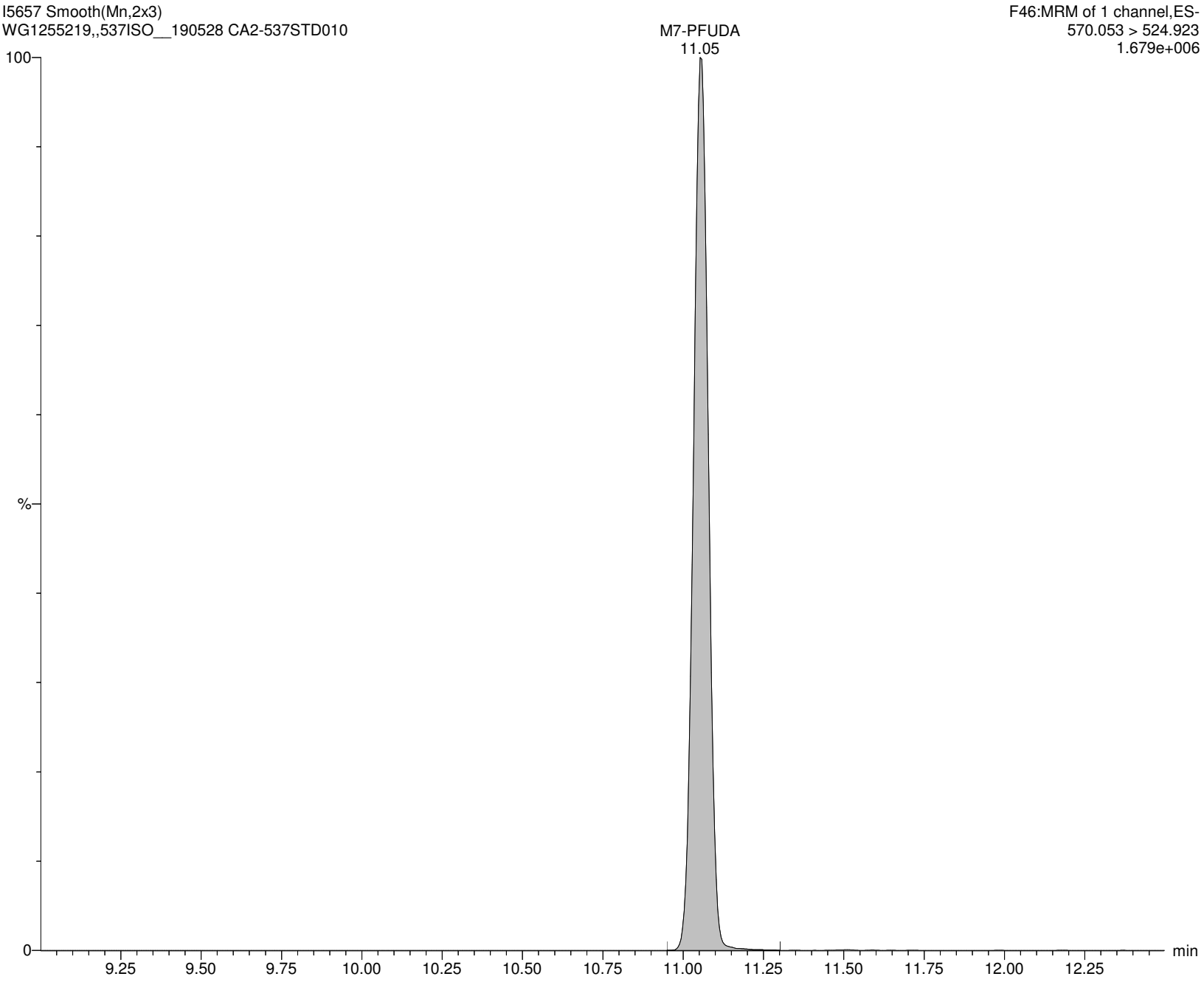


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICV.qld
Last Altered: Tuesday, July 02, 2019 11:12:50 Eastern Daylight Time
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Date: 02-Jul-2019
Time: 10:24:16
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M7-PFUDA

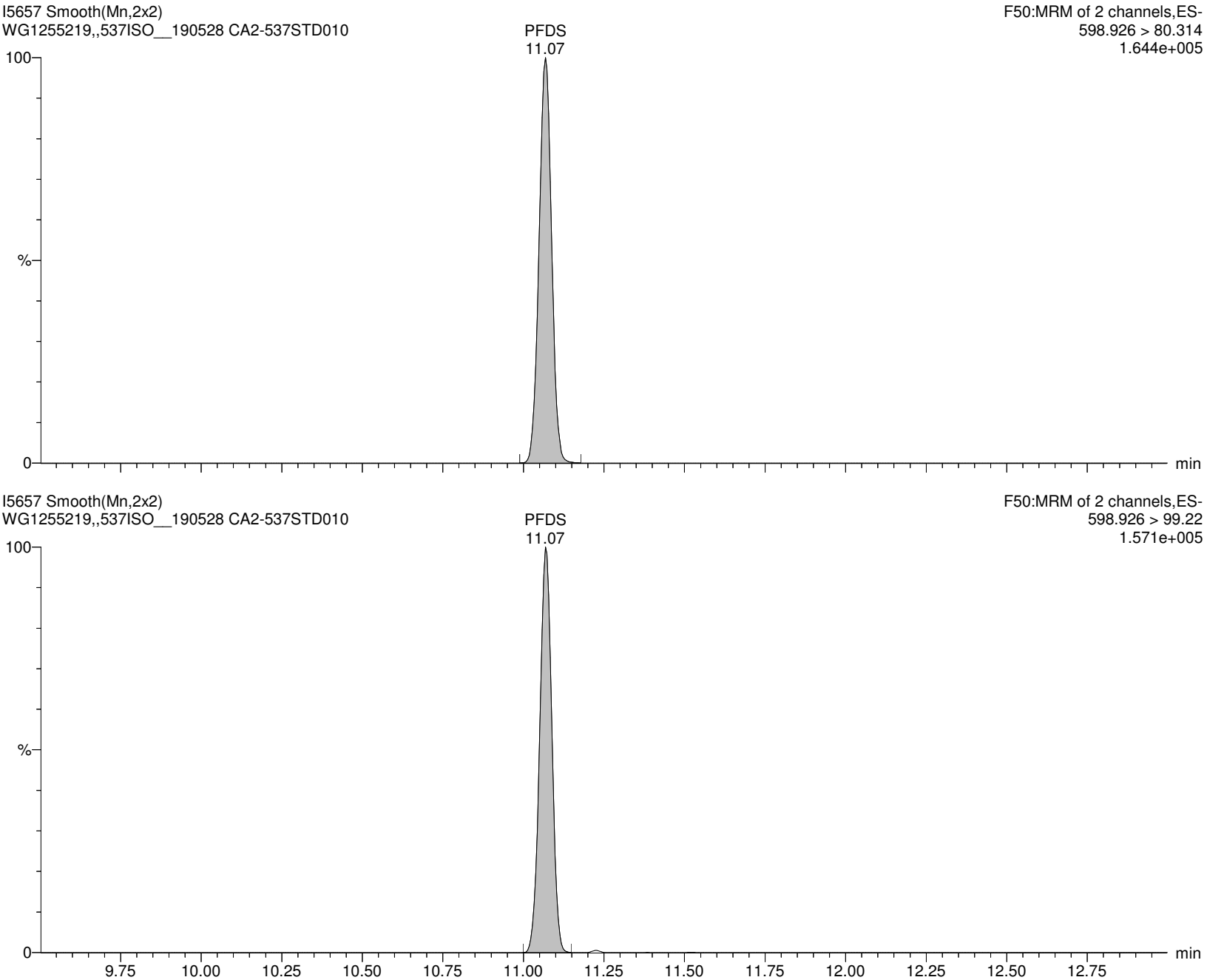


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 11:12:50 Eastern Daylight Time
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Name: I5657
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Time: 10:24:16
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User: LCMS02:JW
Vial: 1:B,2
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Inlet Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
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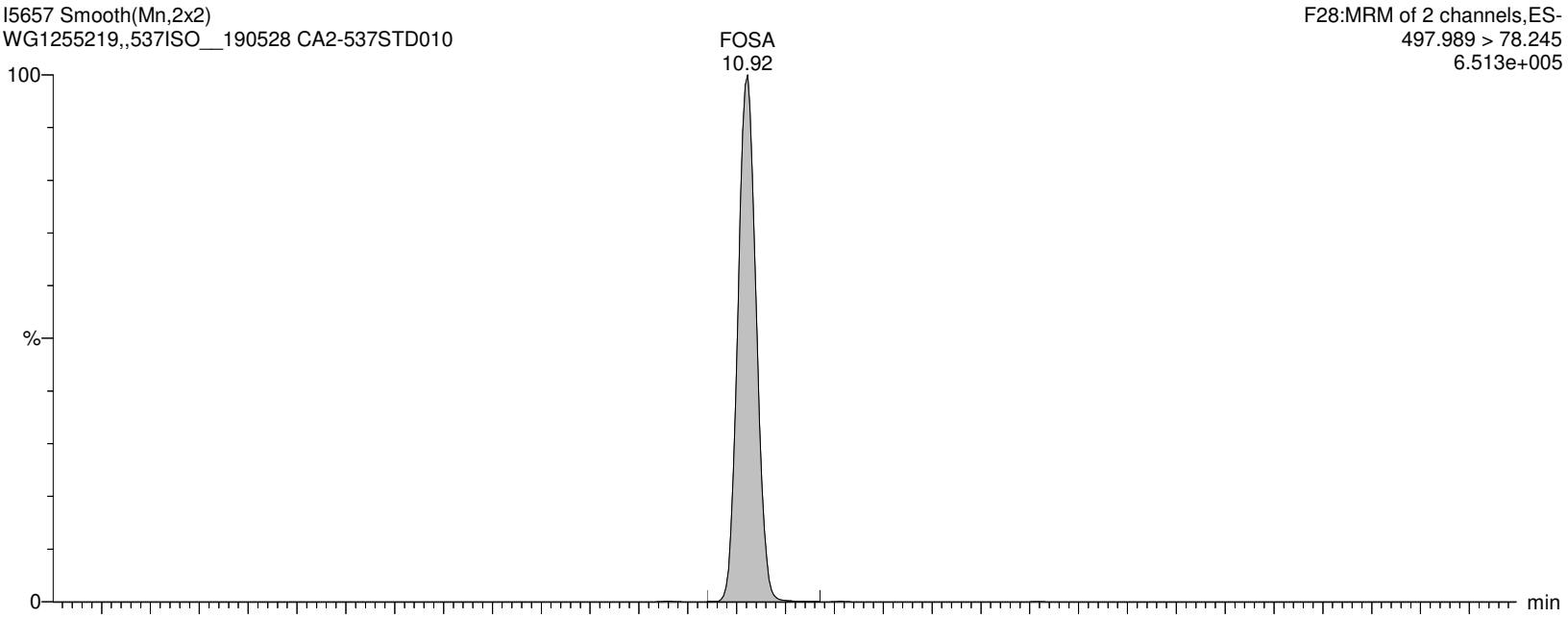


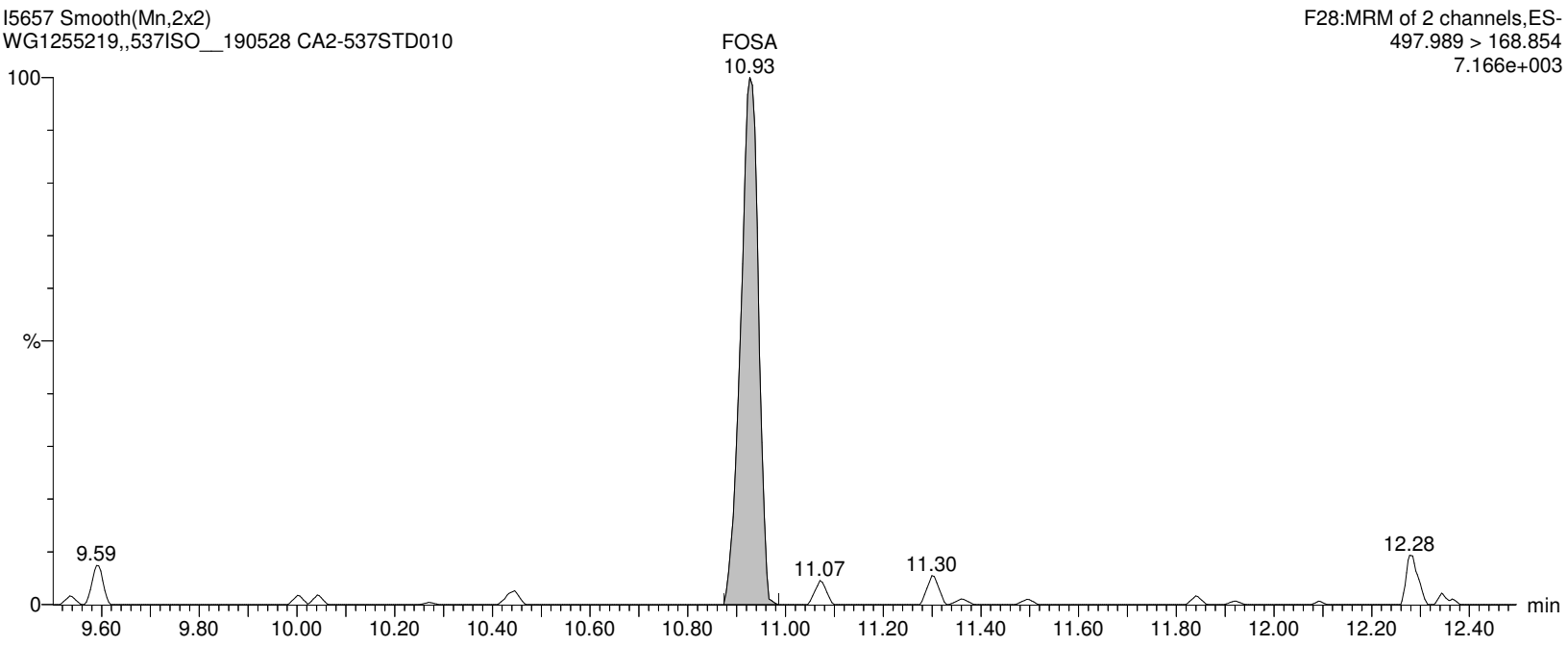
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICV.qld
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FOSA



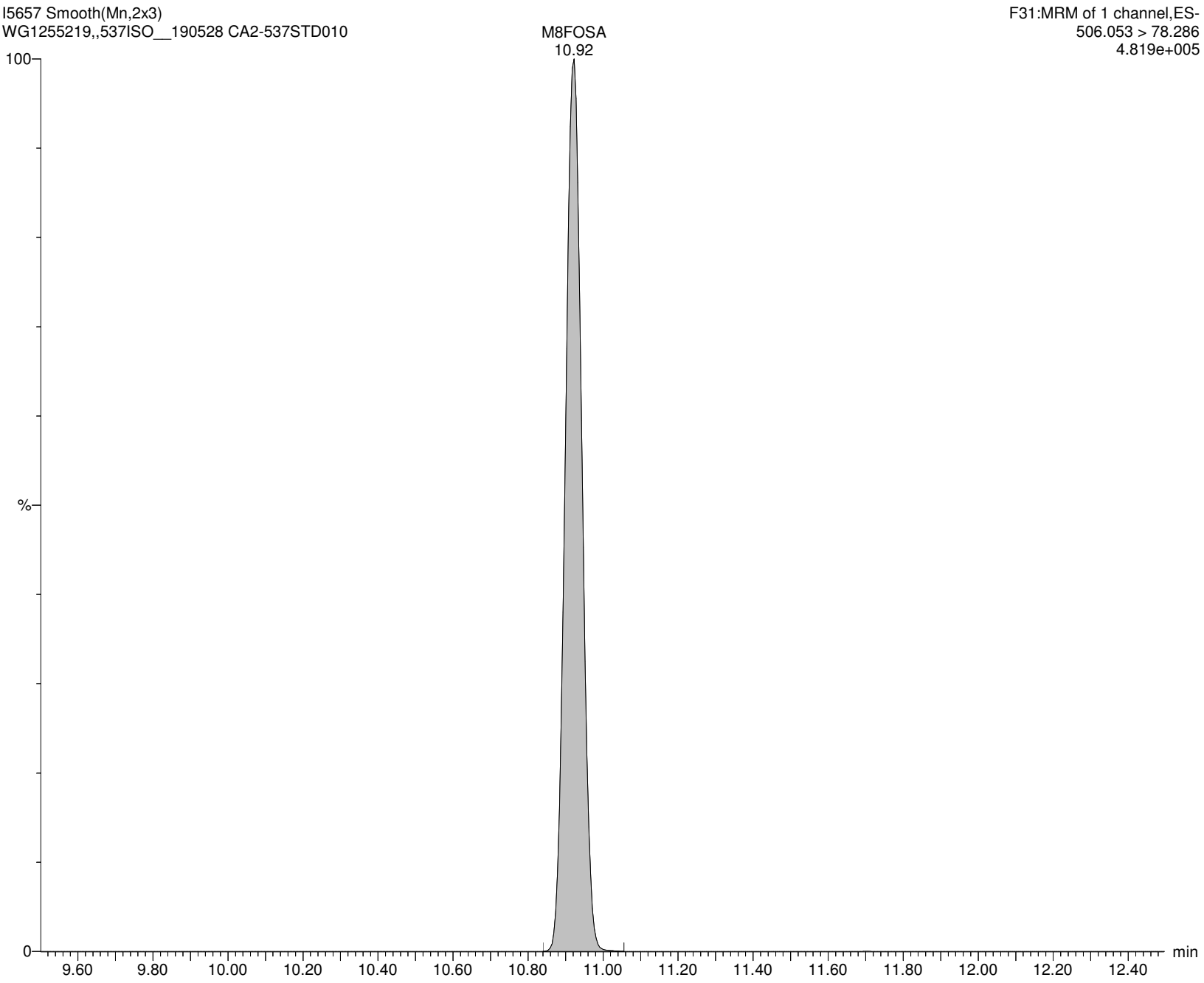


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICV.qld
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M8FOSA

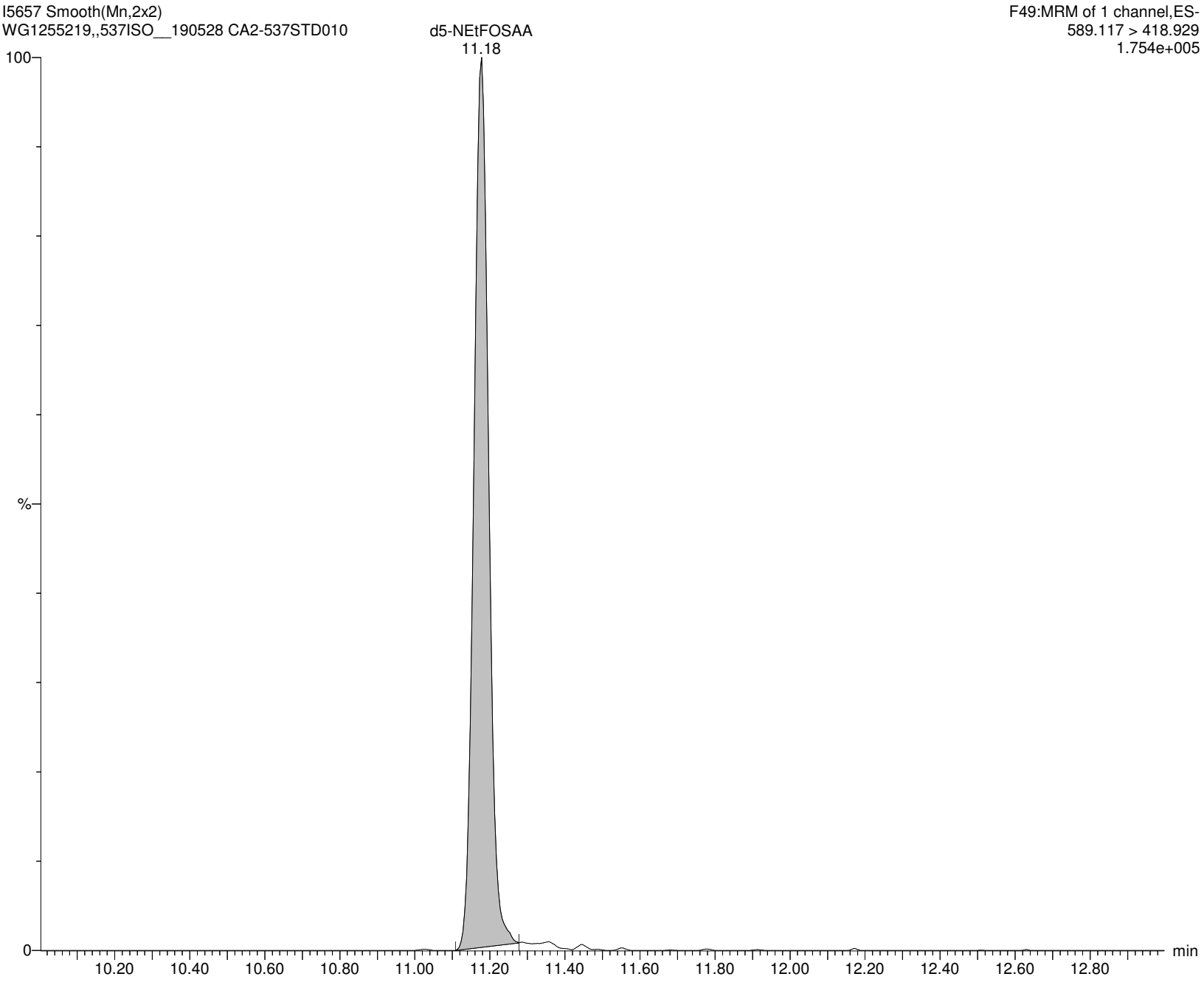


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICV.qld
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d5-NEtFOSAA

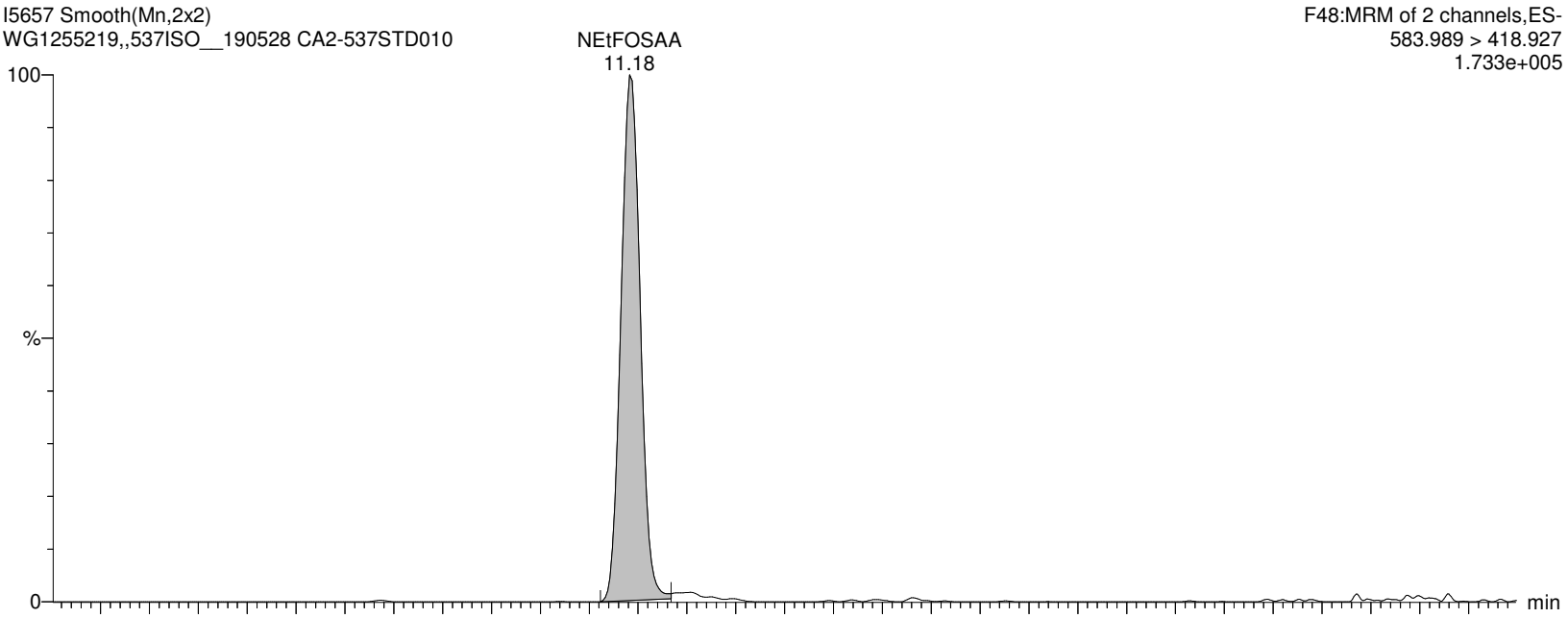


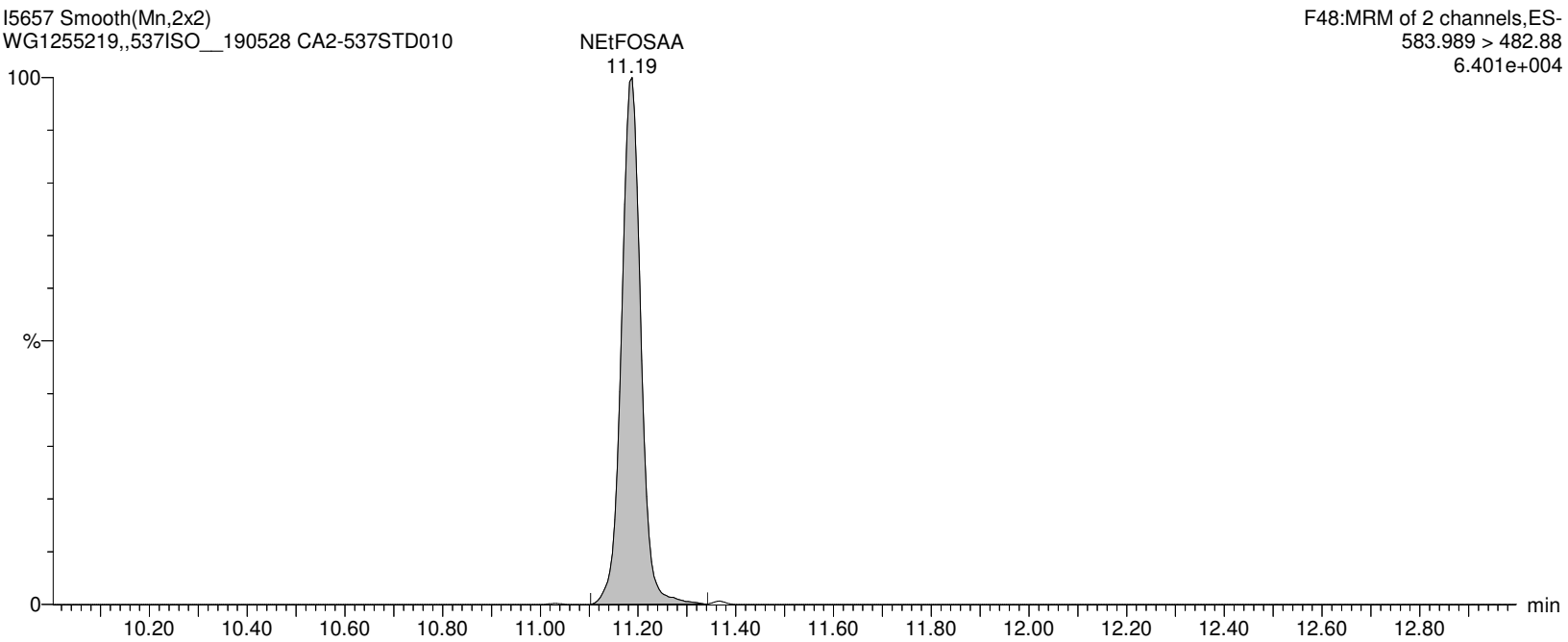
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICV.qld
Last Altered: Tuesday, July 02, 2019 11:12:50 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:13:26 Eastern Daylight Time

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ID: CA2-537STD010
Date: 02-Jul-2019
Time: 10:24:16
Description: WG1255219,,537ISO__190528
User: LCMS02:JW
Vial: 1:B,2
Instrument: XEVO-TQSmicro#QEB0050
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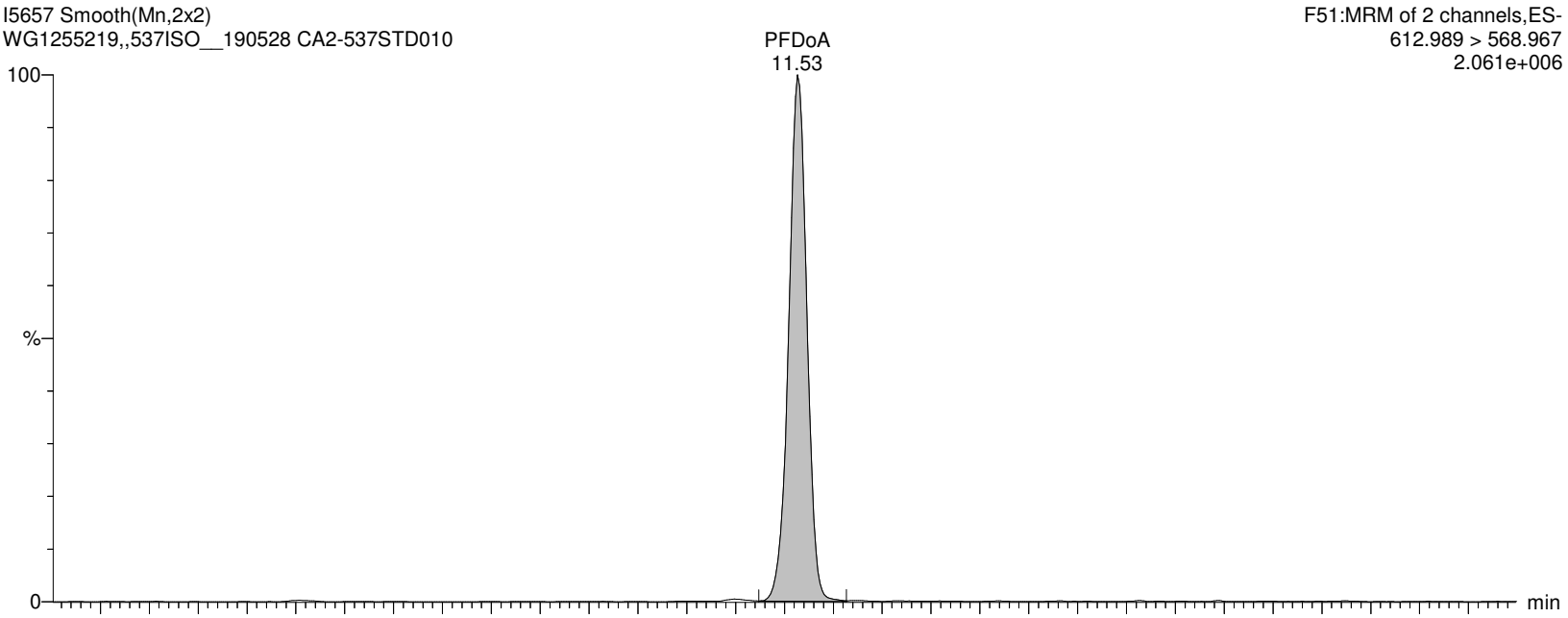


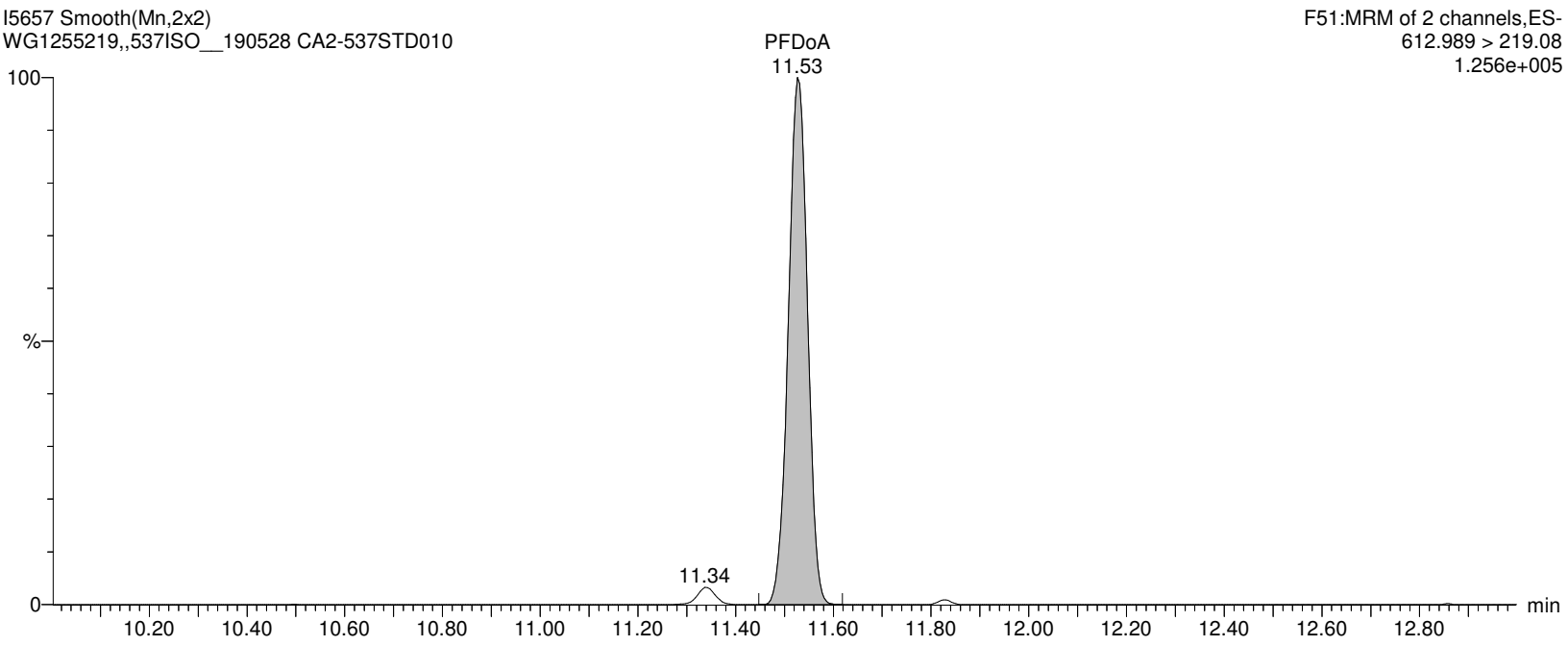
all concentration units in (ng/mL)

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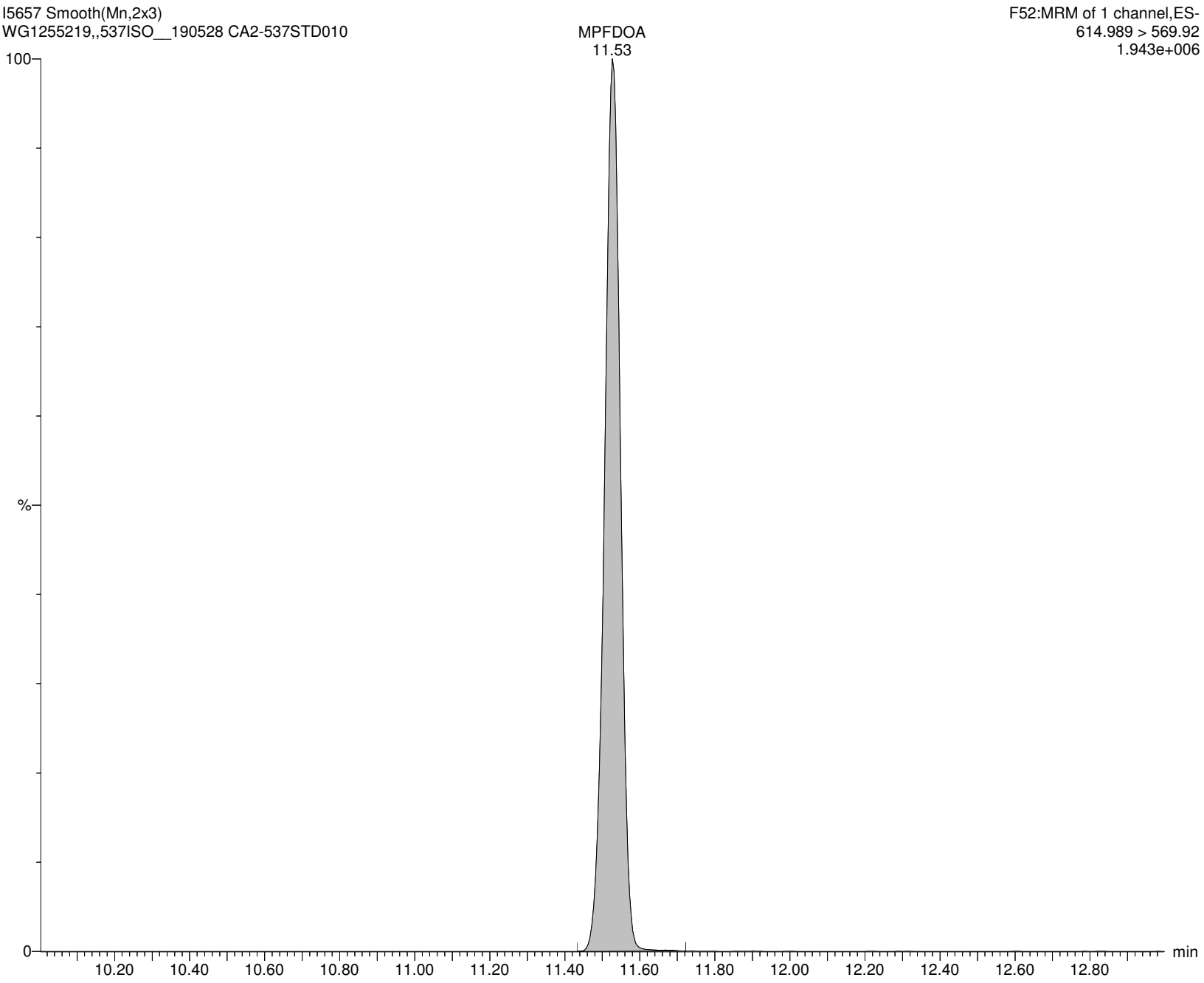


all concentration units in (ng/mL)

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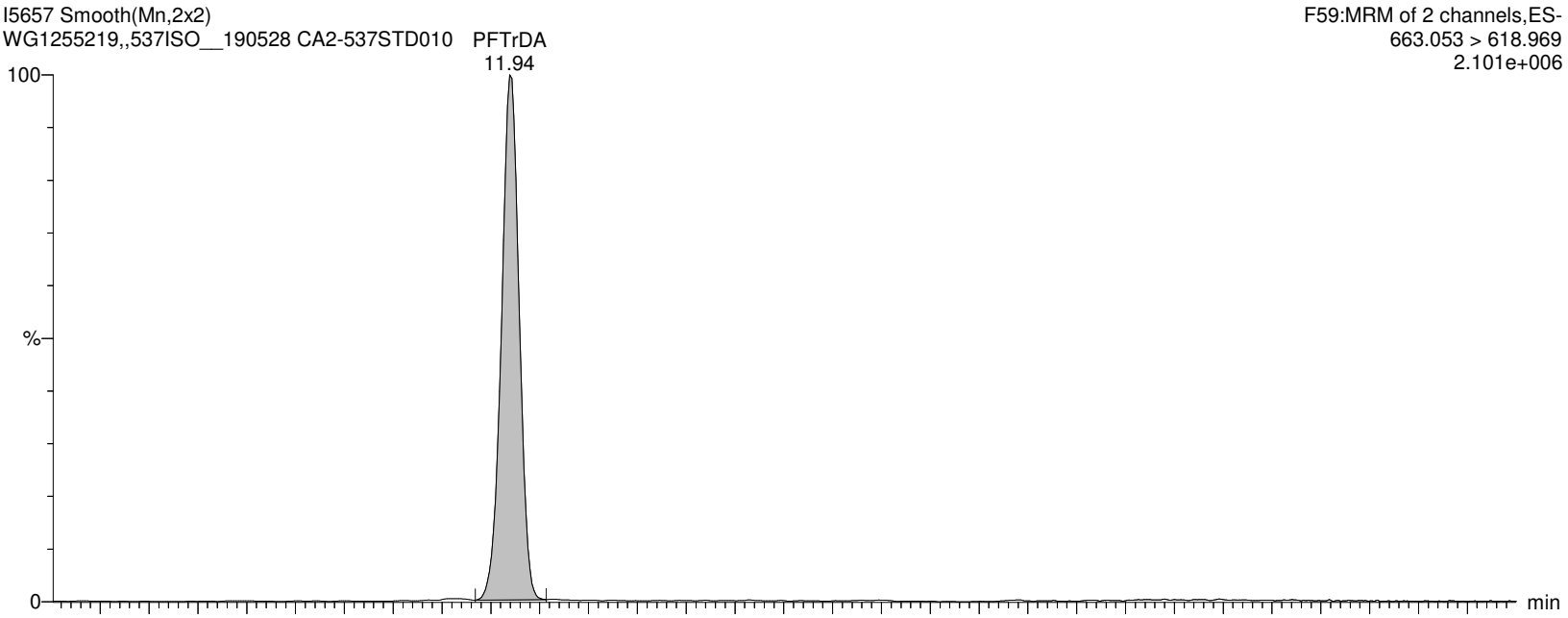


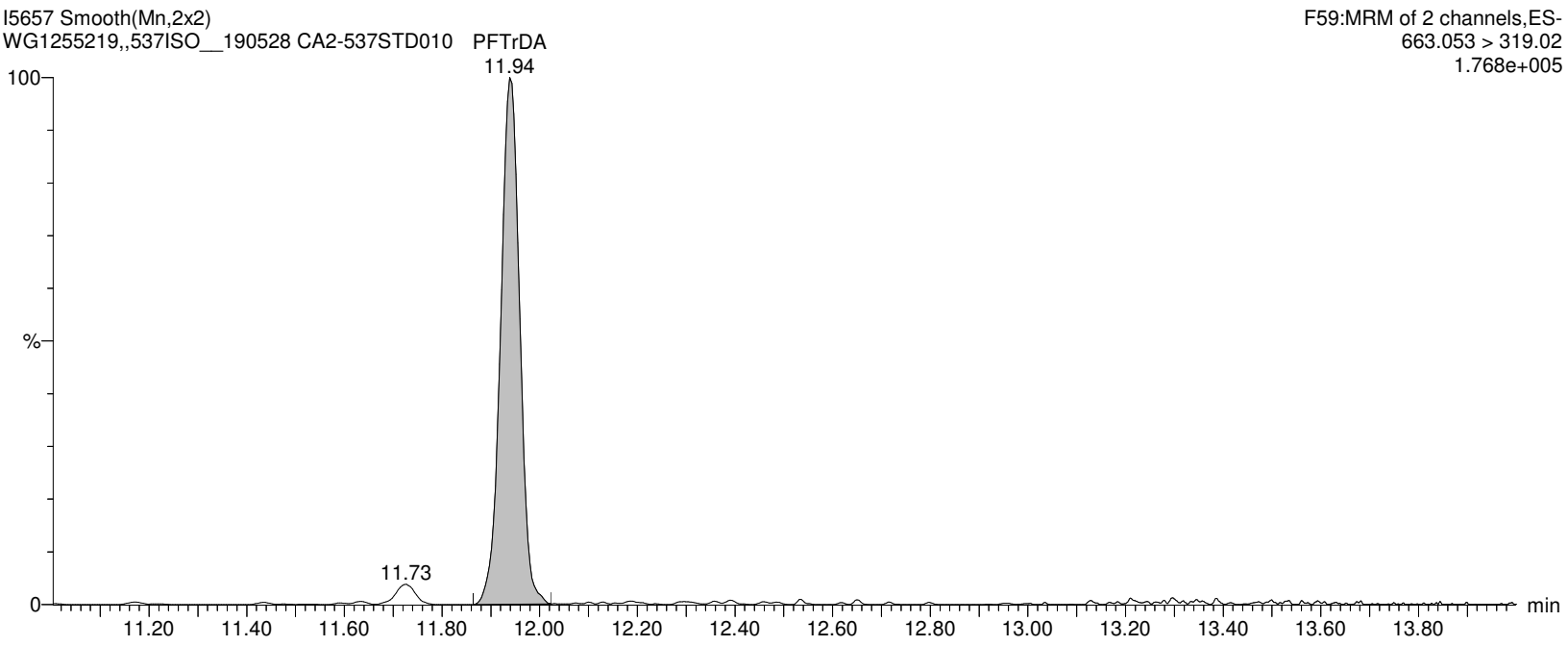
all concentration units in (ng/mL)

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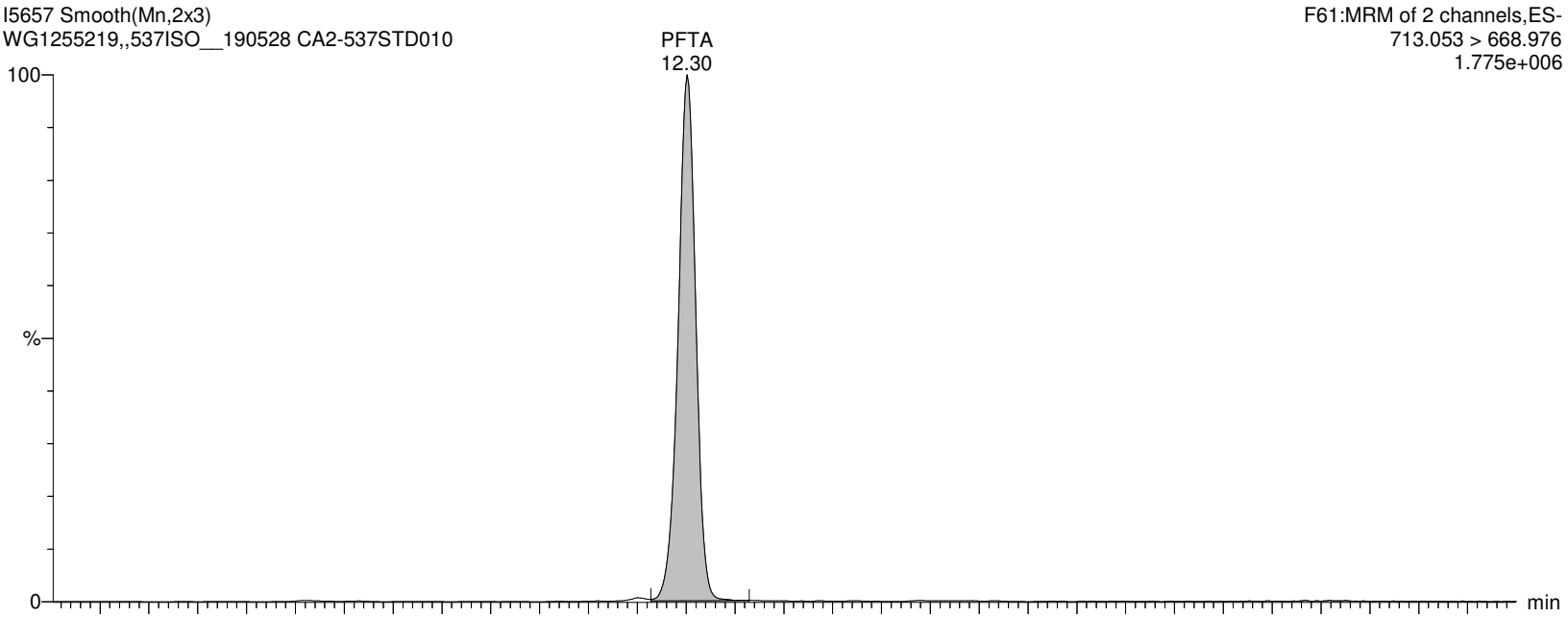


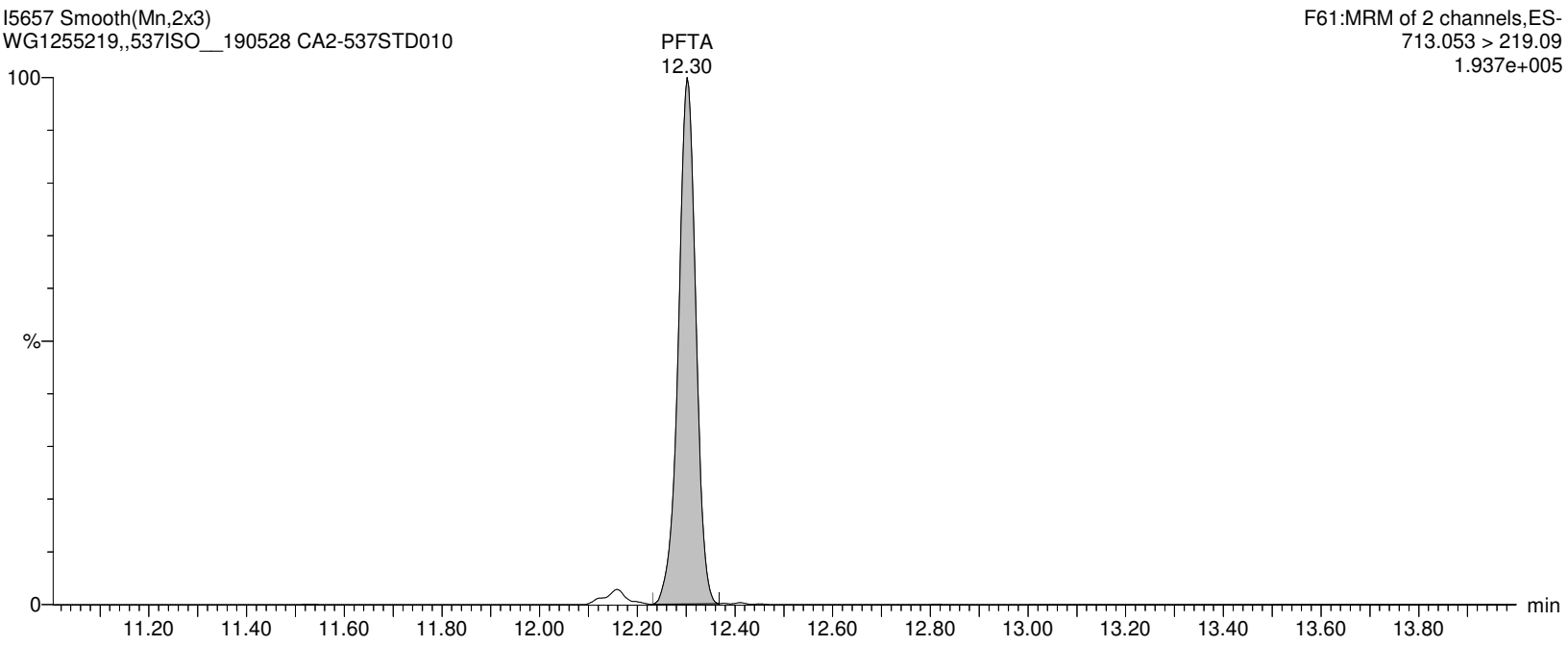
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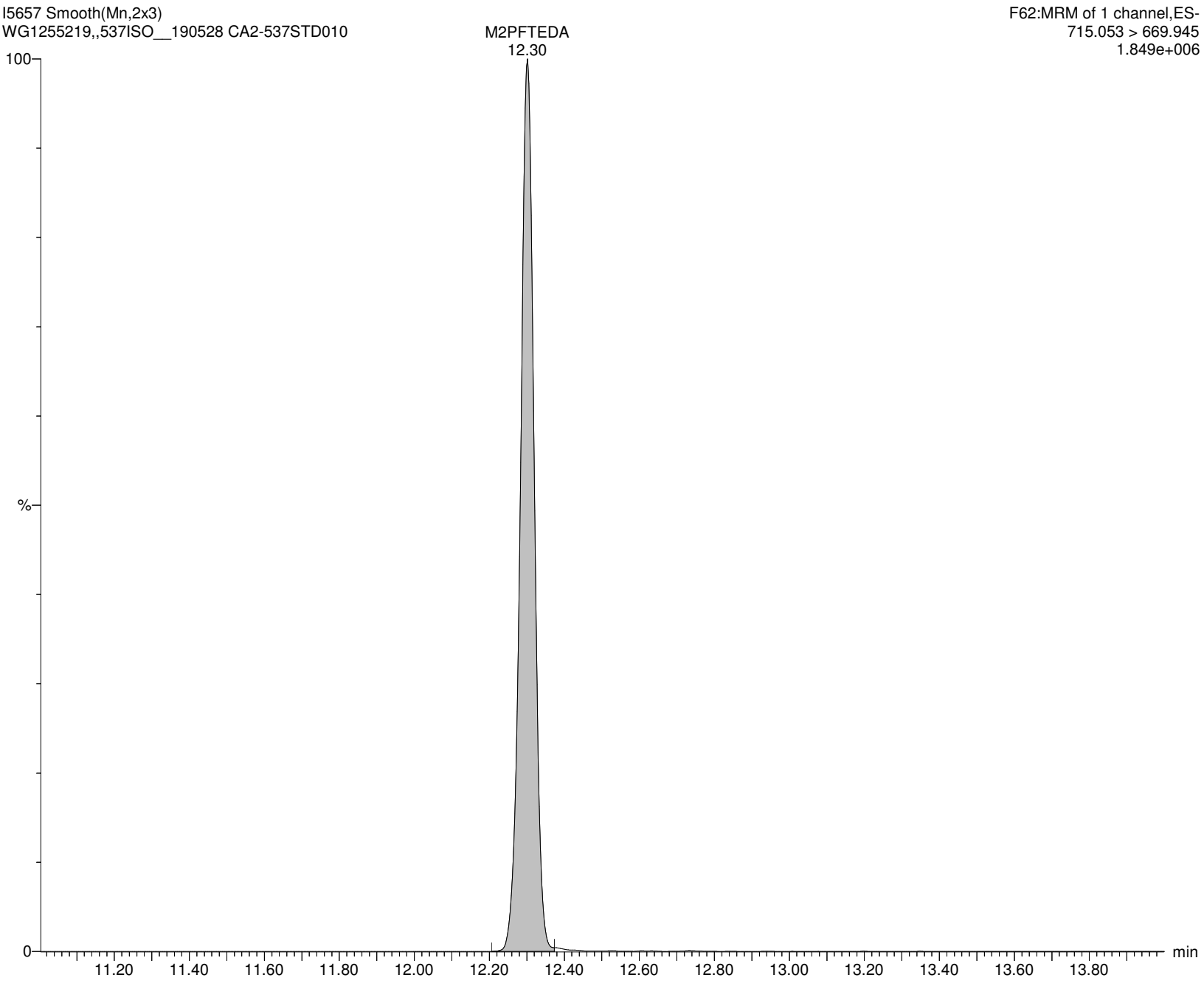


all concentration units in (ng/mL)

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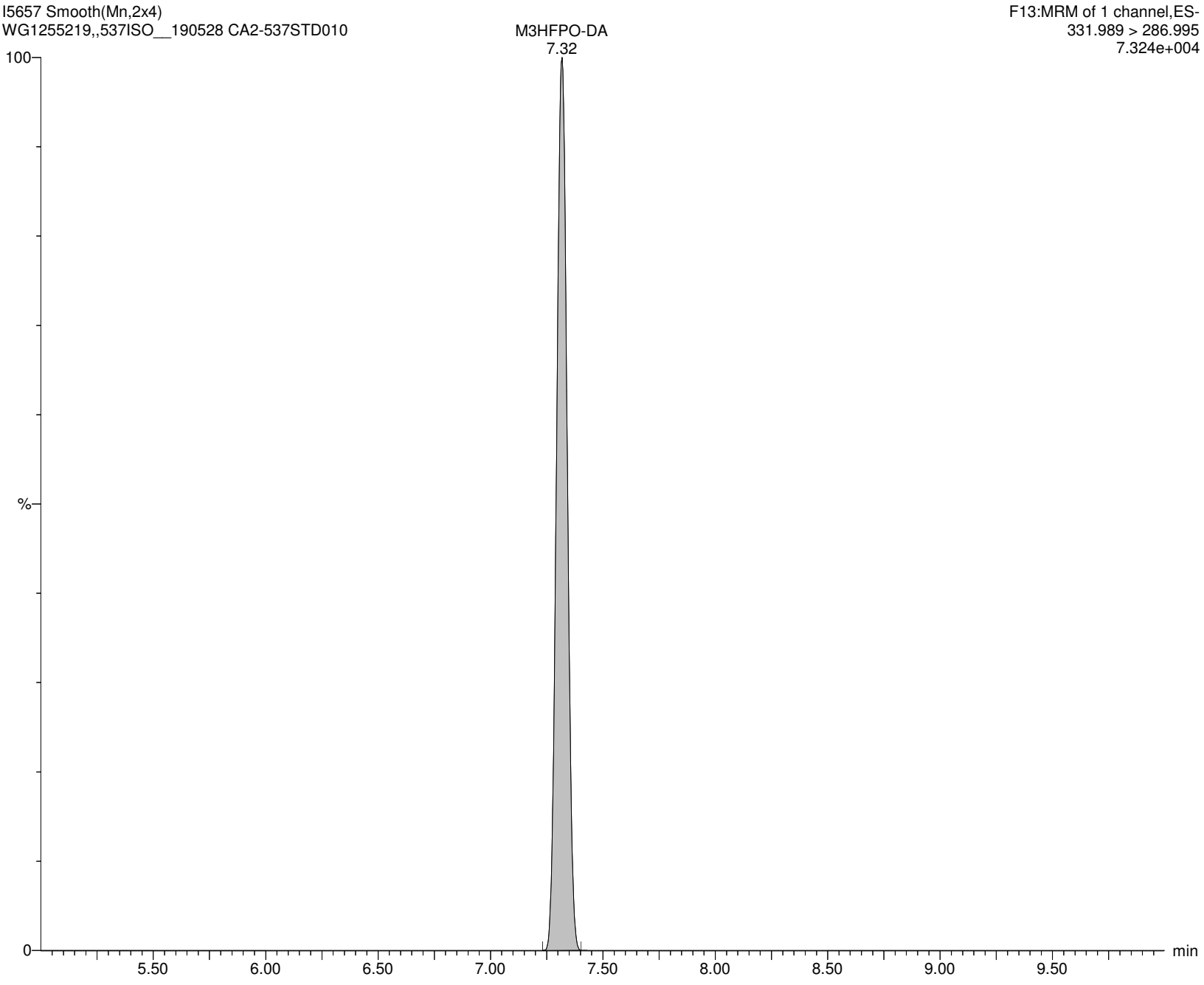


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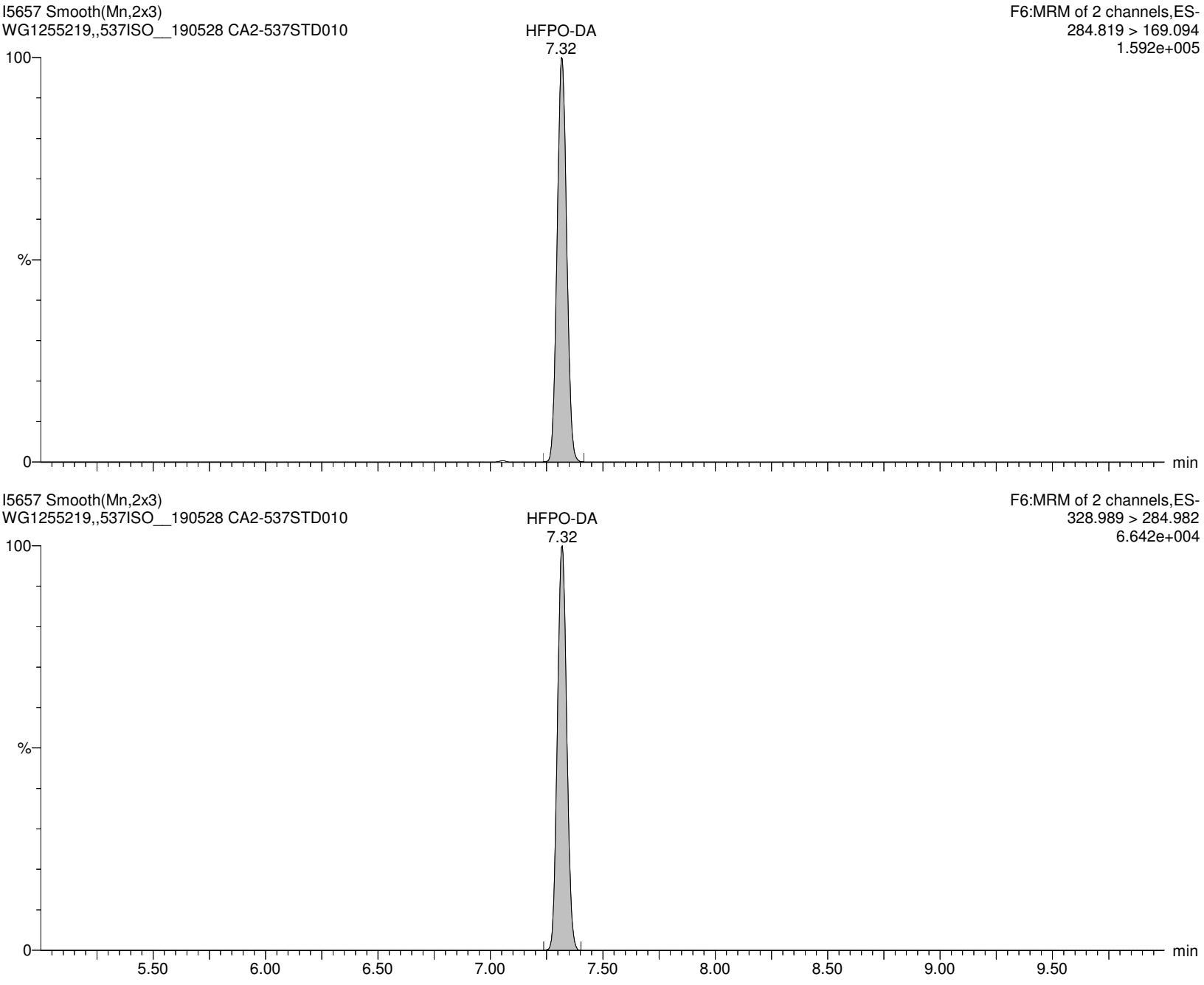


all concentration units in (ng/mL)

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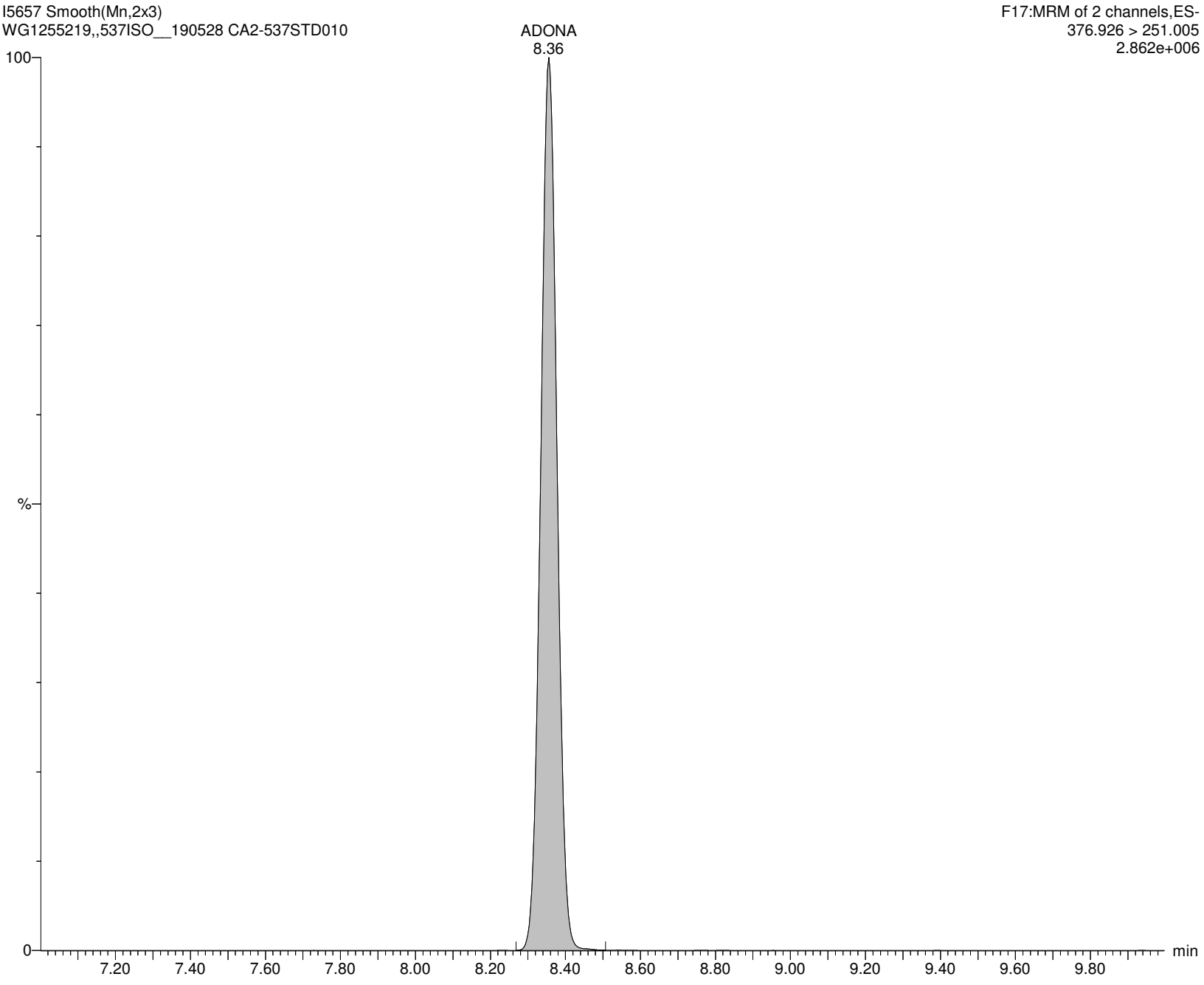


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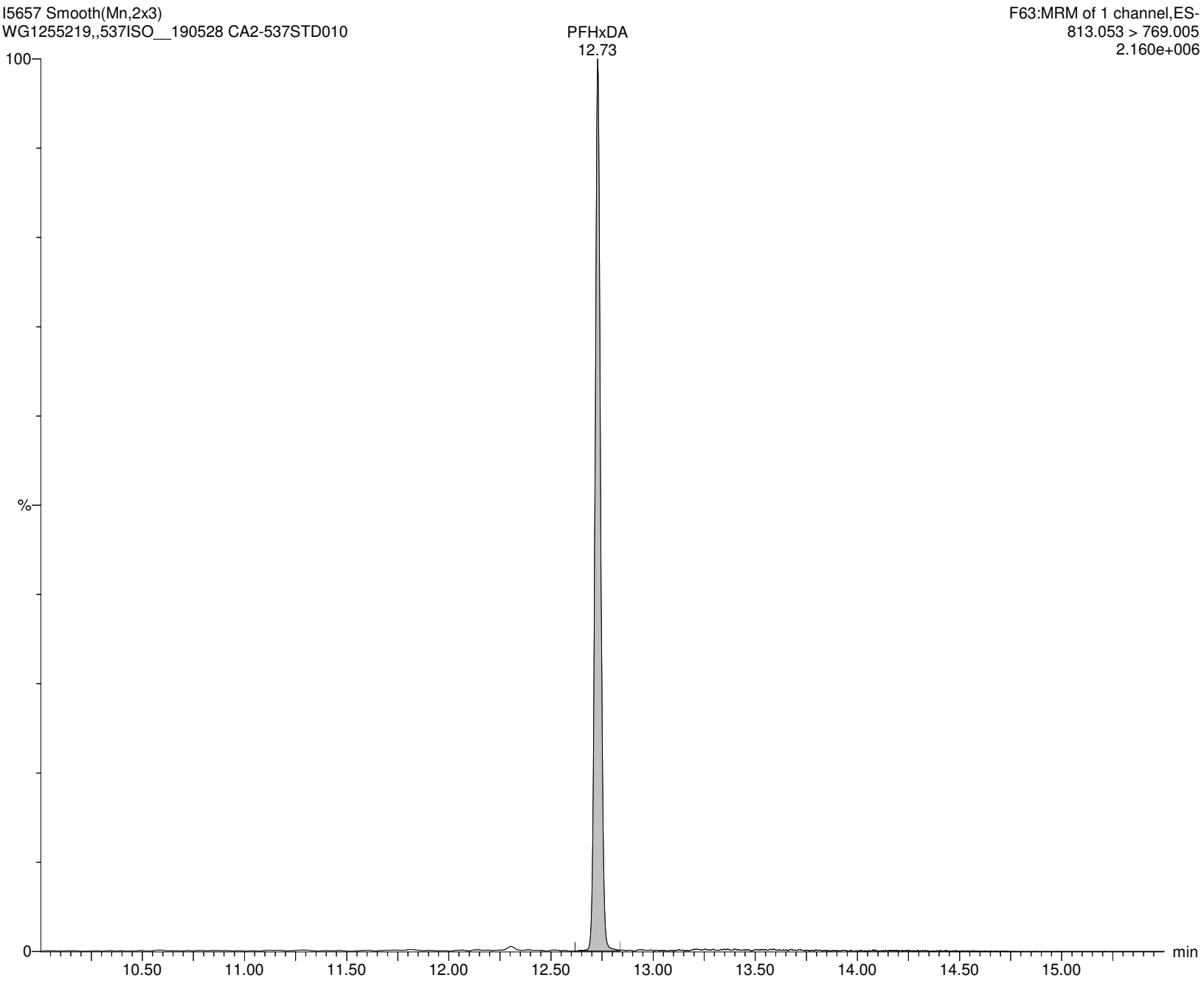


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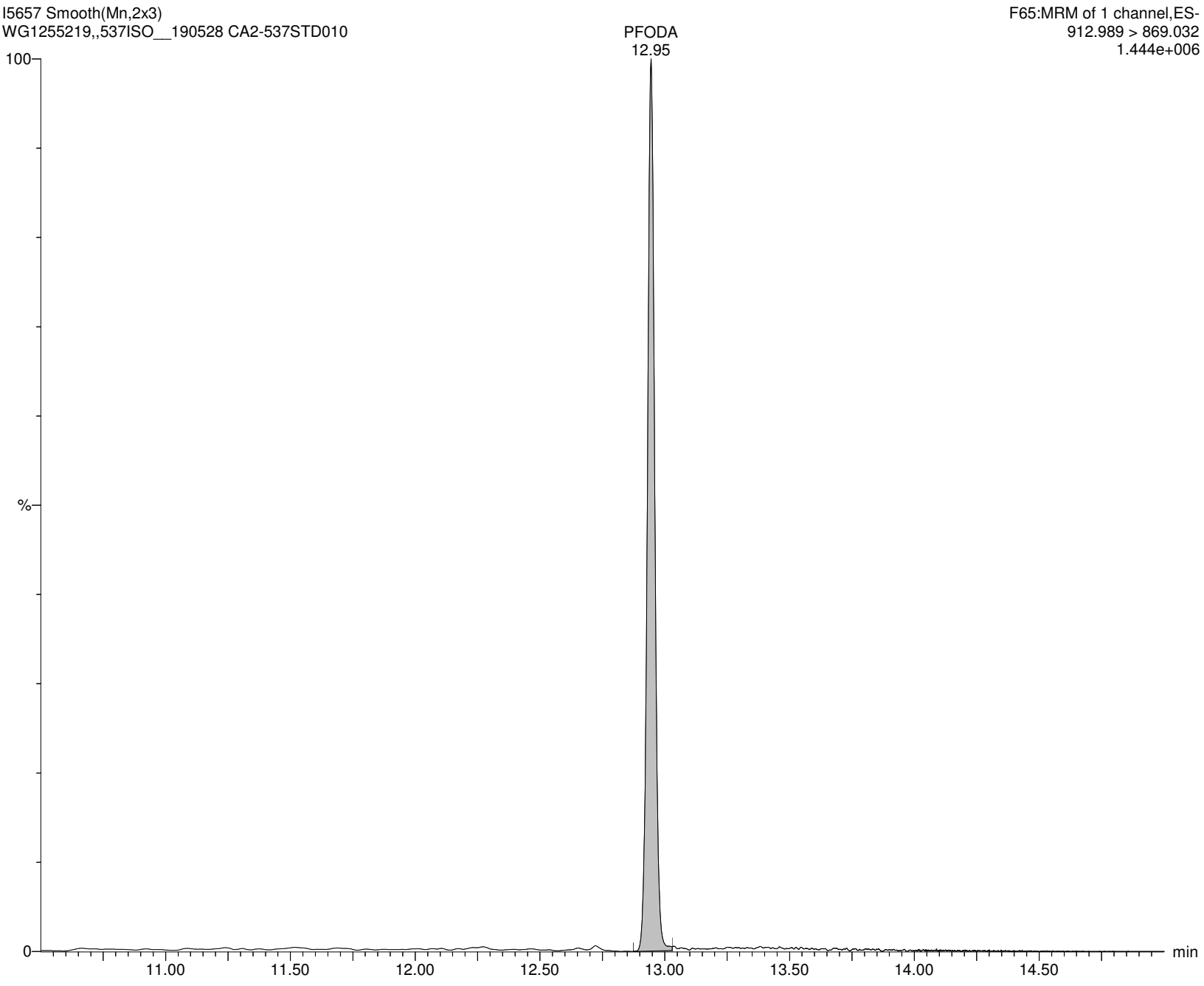


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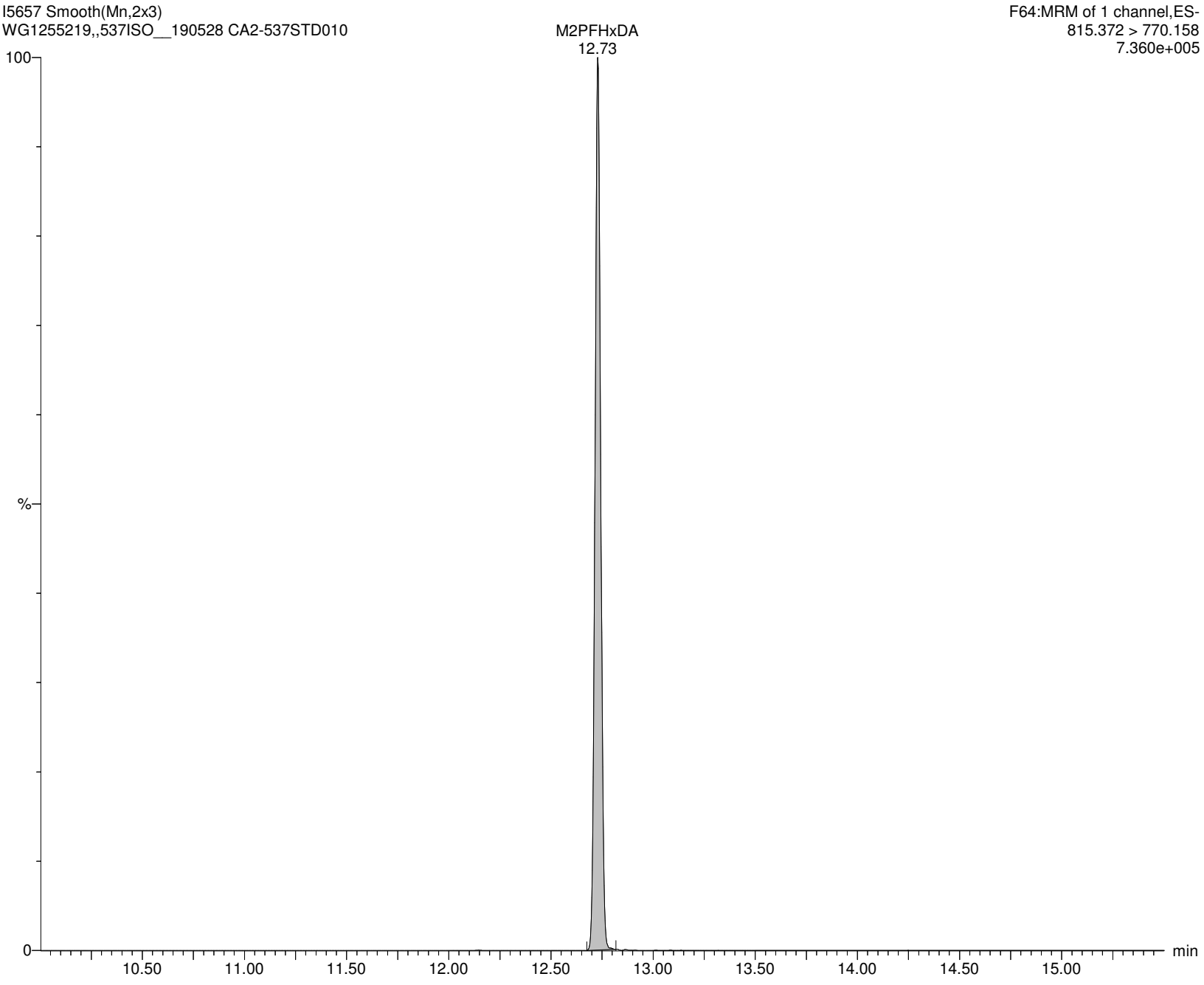


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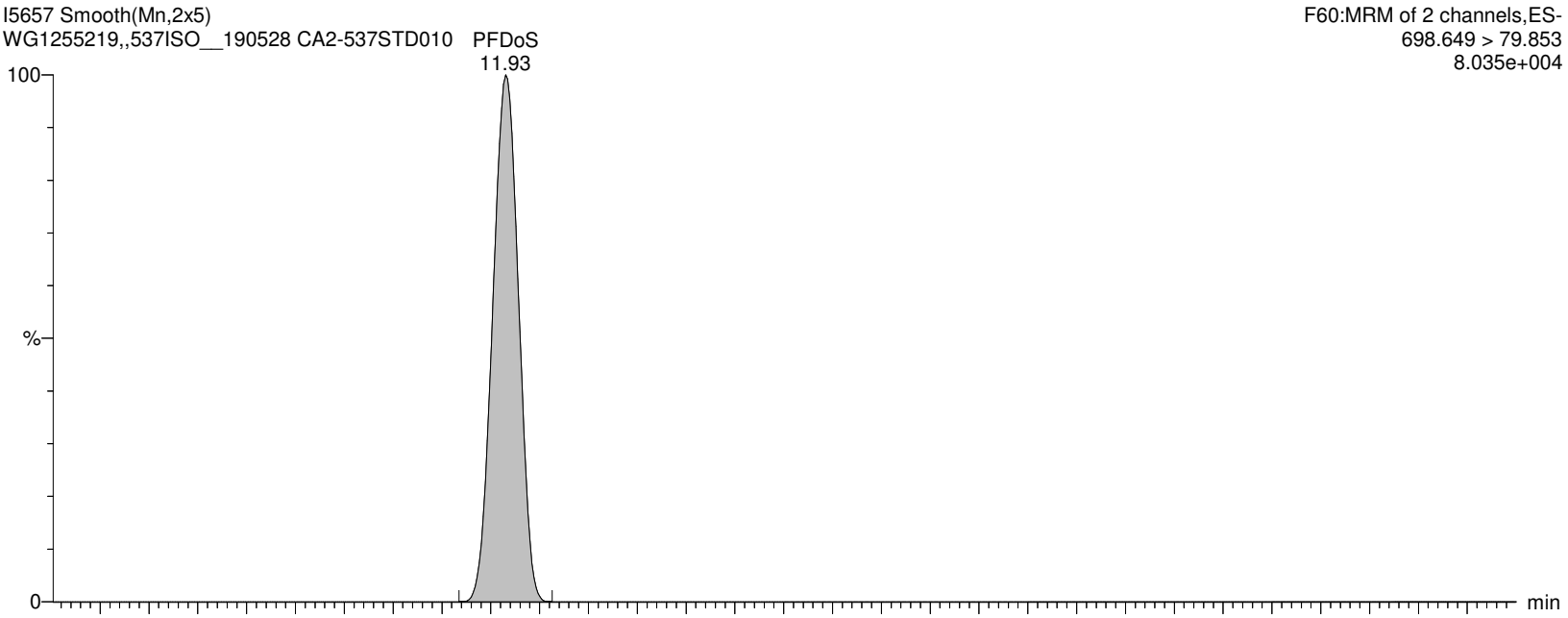


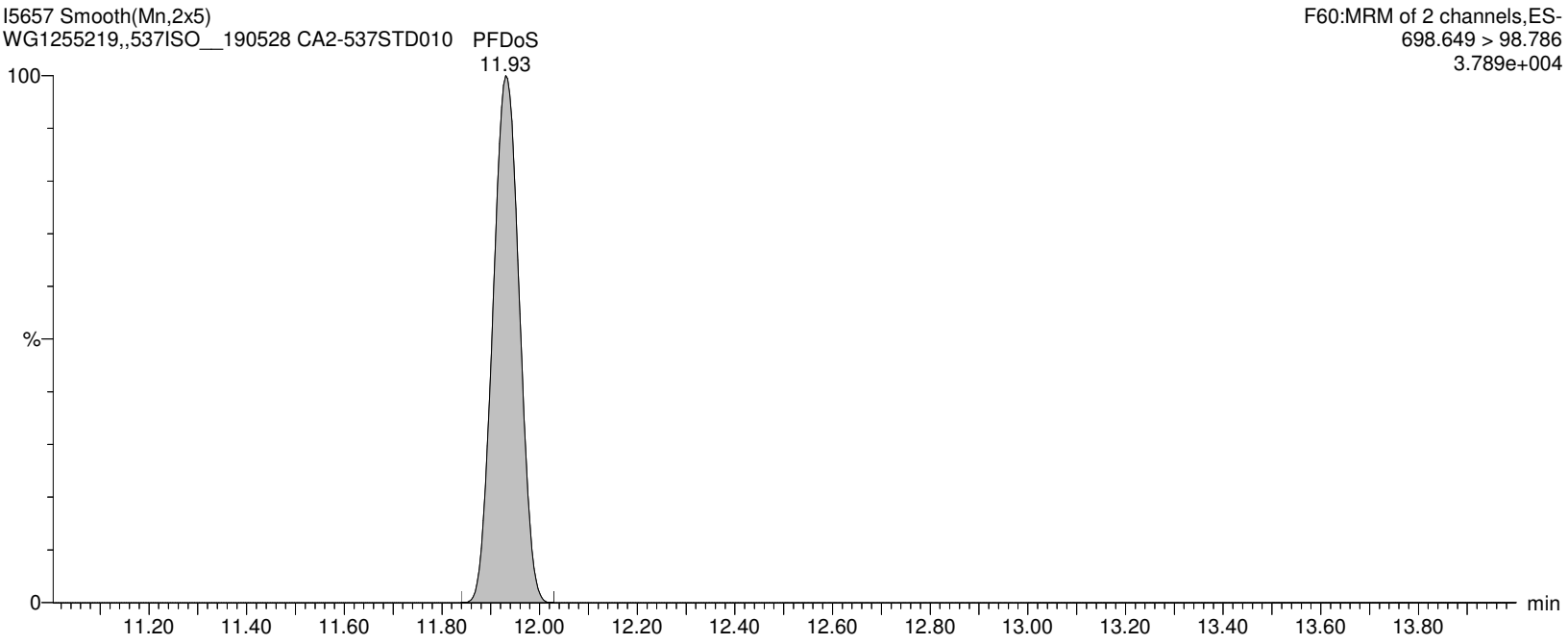
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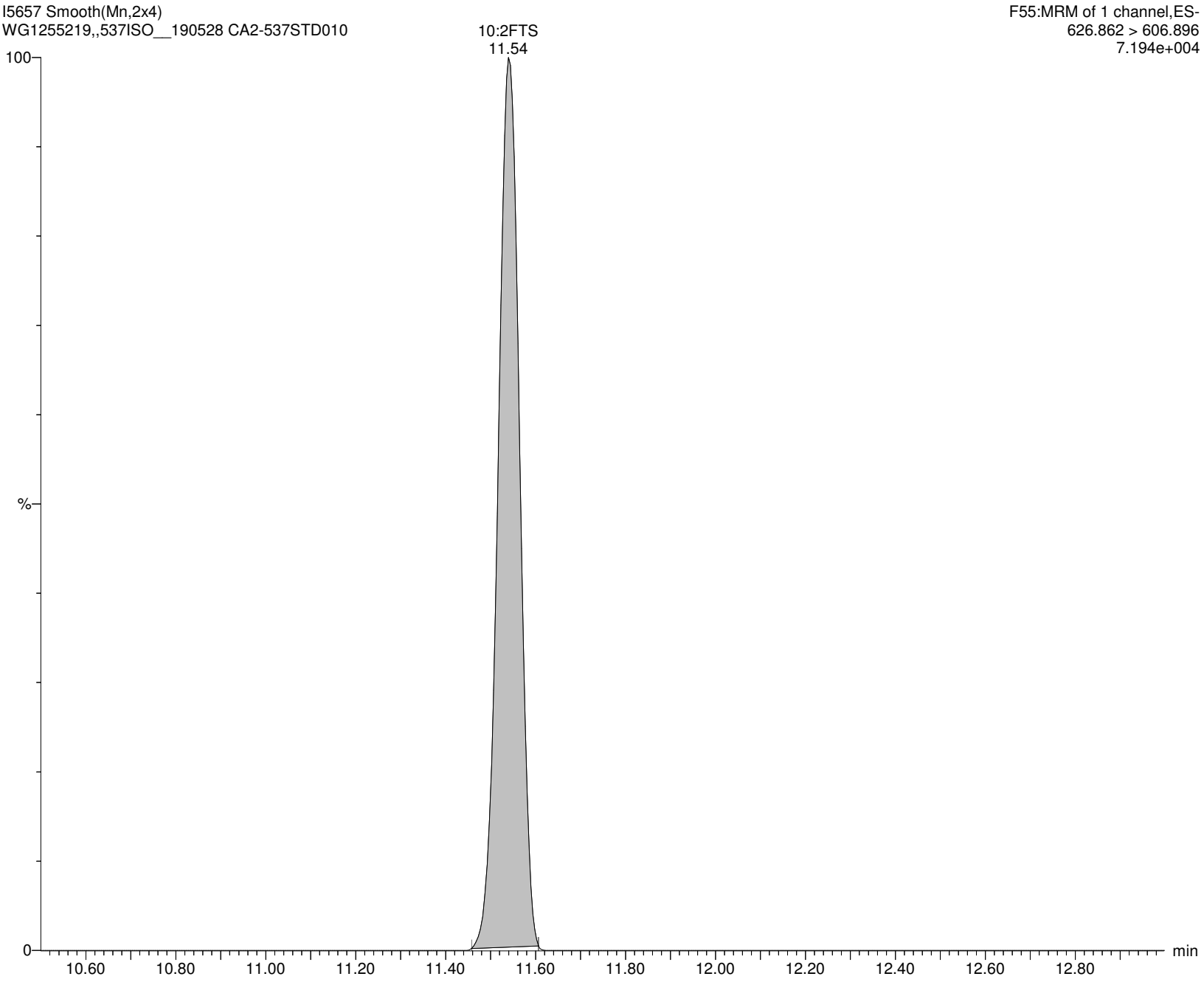


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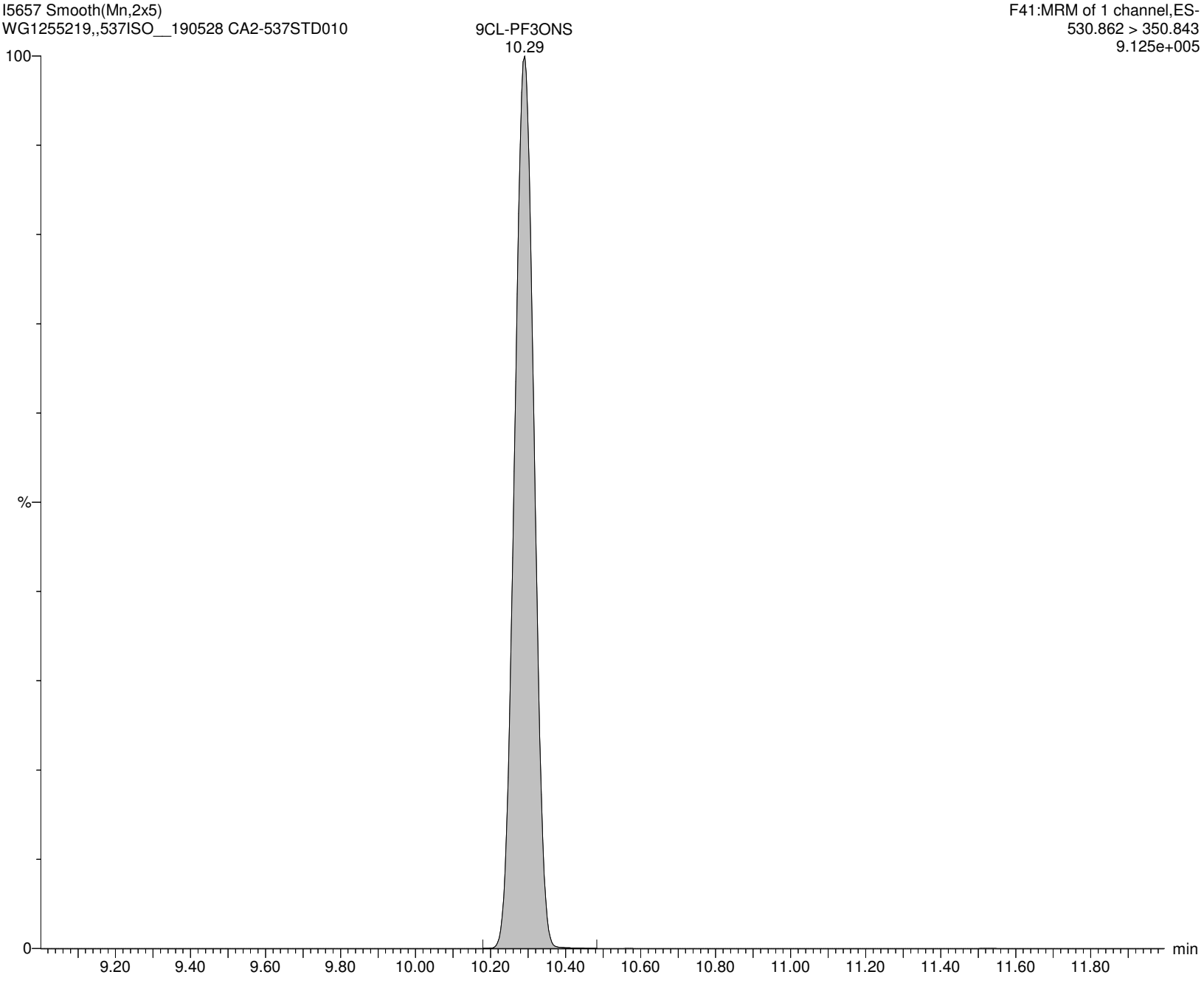


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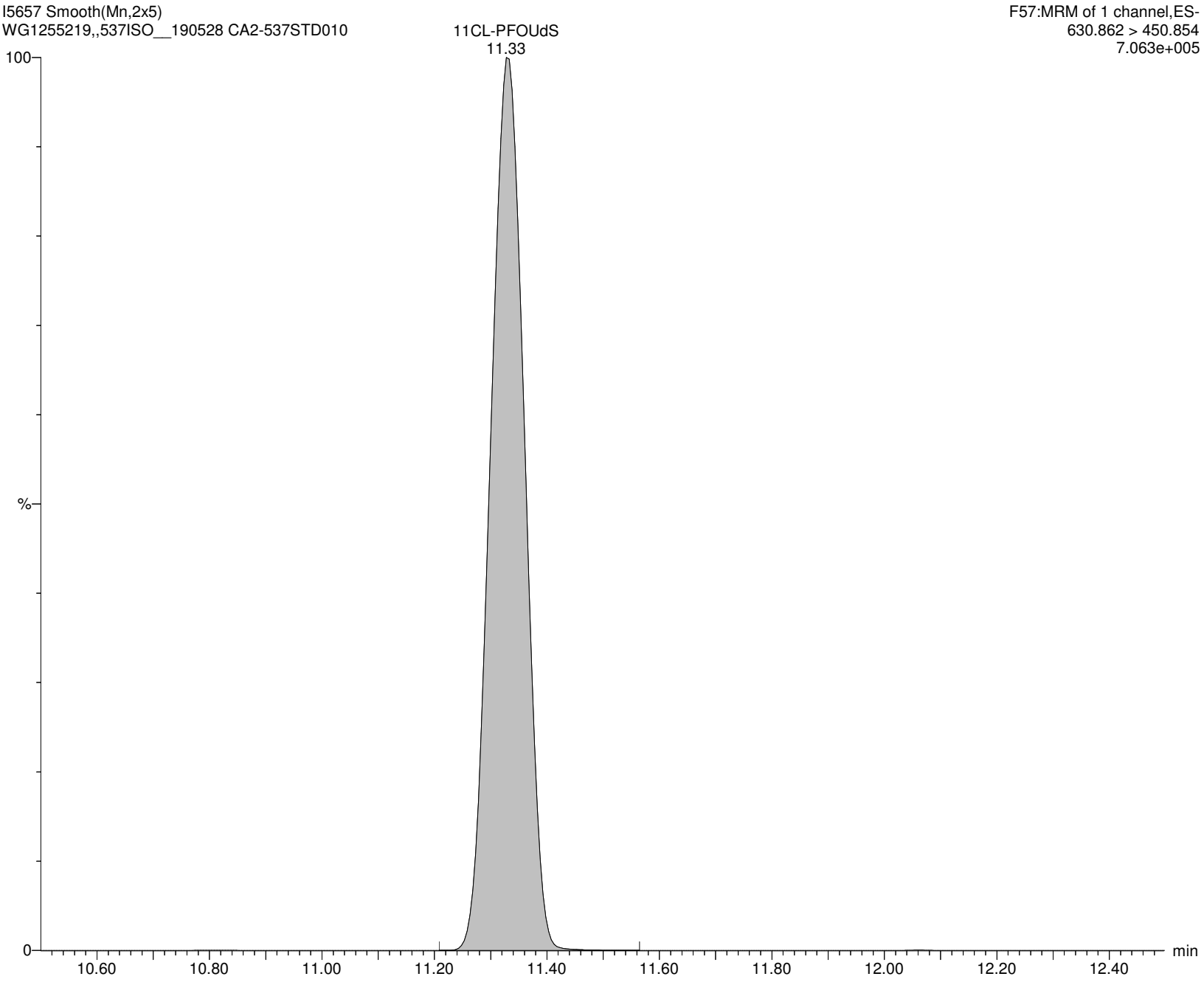


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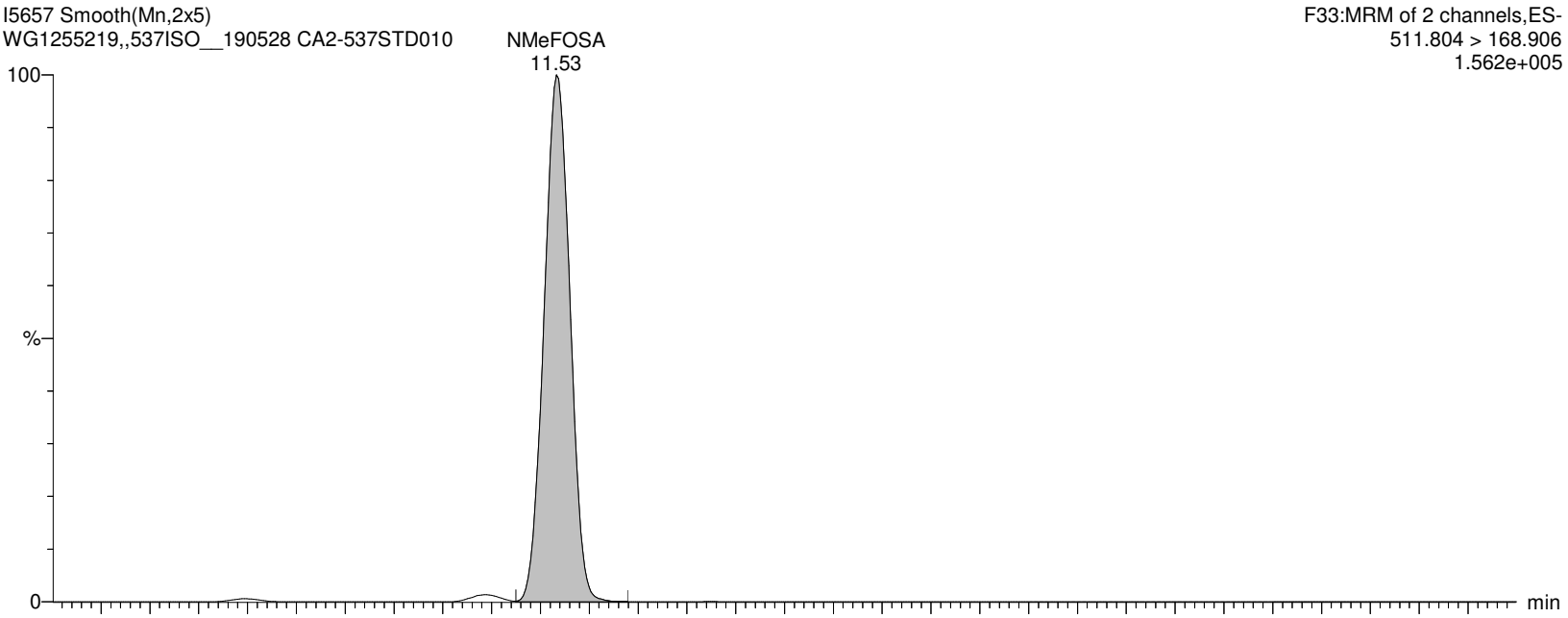


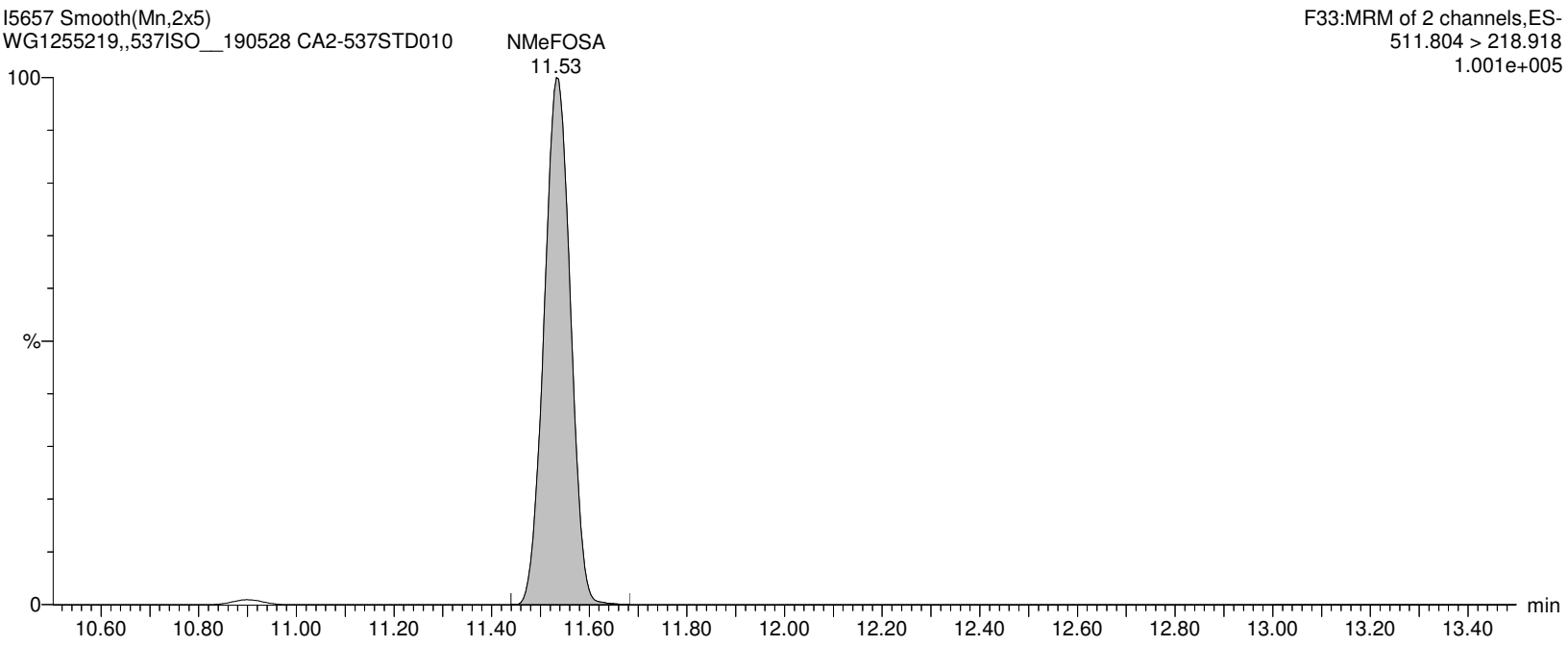
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NMeFOSA



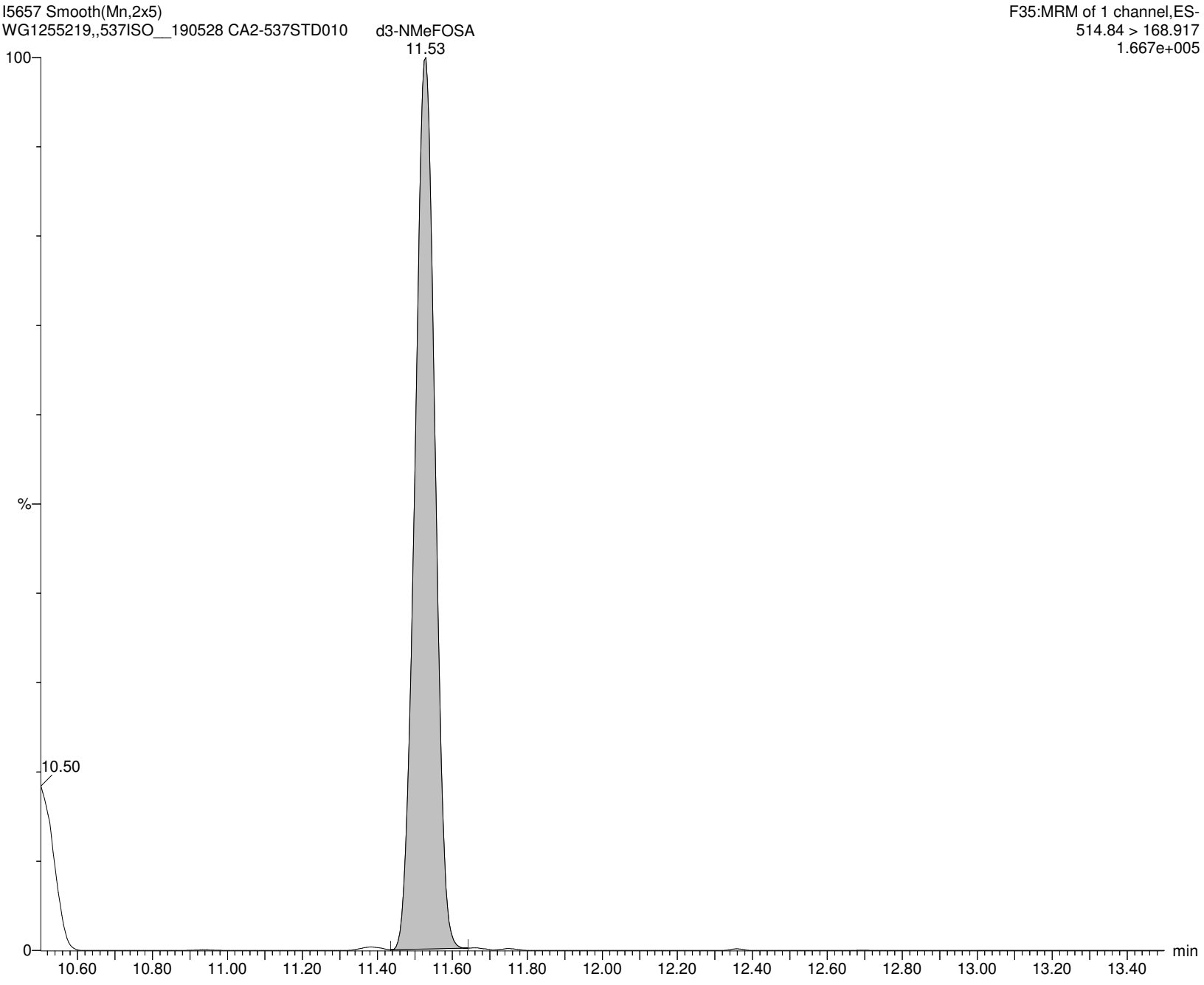


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICV.qld
Last Altered: Tuesday, July 02, 2019 11:12:50 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 11:13:26 Eastern Daylight Time

Name: I5657
ID: CA2-537STD010
Date: 02-Jul-2019
Time: 10:24:16
Description: WG1255219,,537ISO__190528
User: LCMS02:JW
Vial: 1:B,2
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\181009_TUNE.IPR
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d3-NMeFOSA

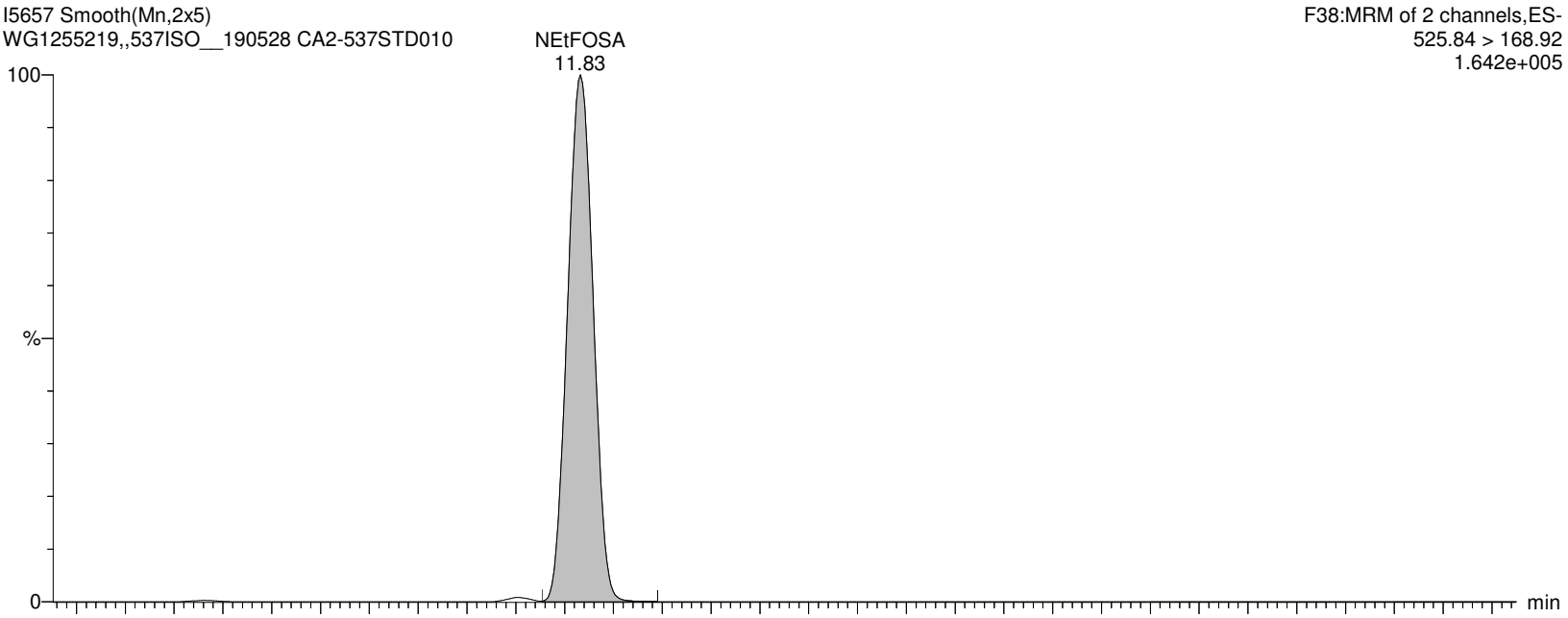


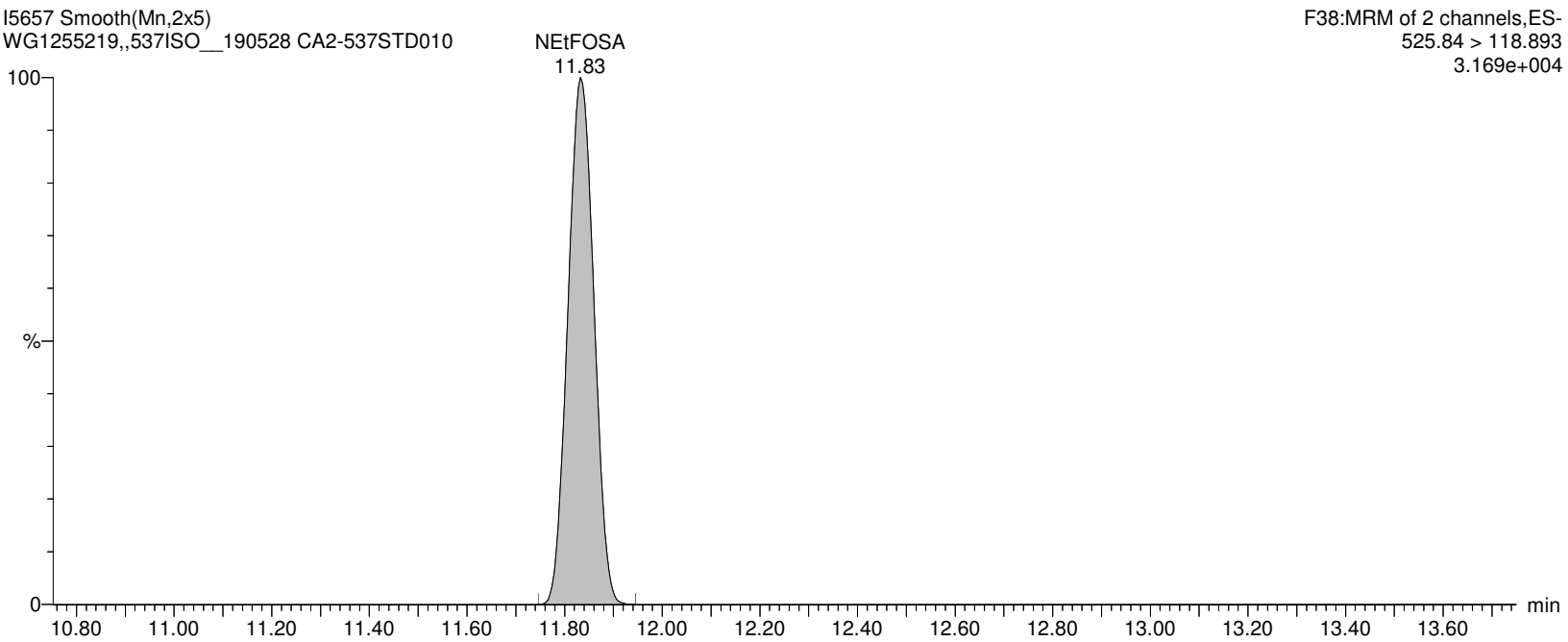
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICV.qld
Last Altered: Tuesday, July 02, 2019 11:12:50 Eastern Daylight Time
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Date: 02-Jul-2019
Time: 10:24:16
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NEtFOSA



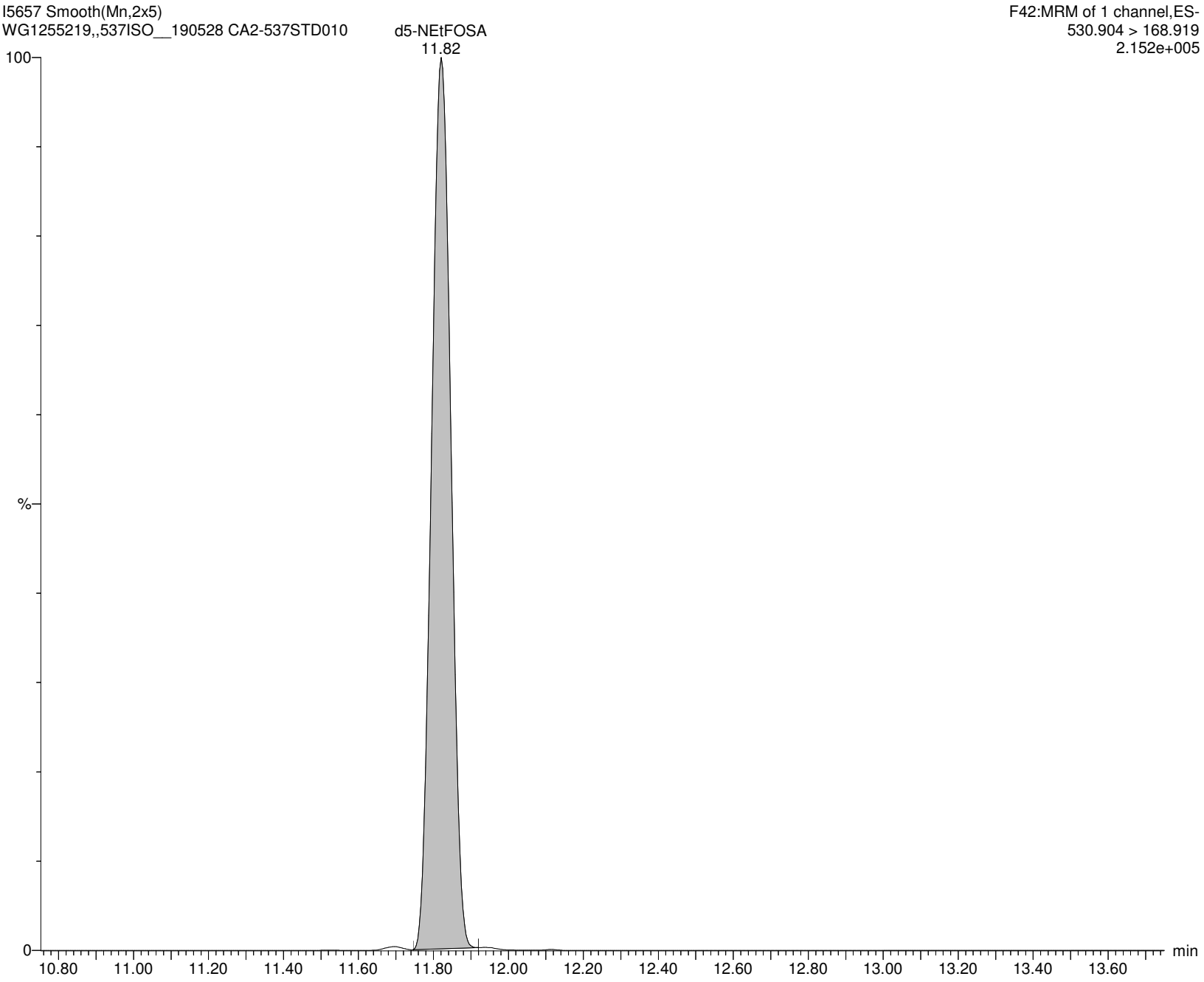


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICV.qld
Last Altered: Tuesday, July 02, 2019 11:12:50 Eastern Daylight Time
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Name: I5657
ID: CA2-537STD010
Date: 02-Jul-2019
Time: 10:24:16
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User: LCMS02:JW
Vial: 1:B,2
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d5-NEtFOSA

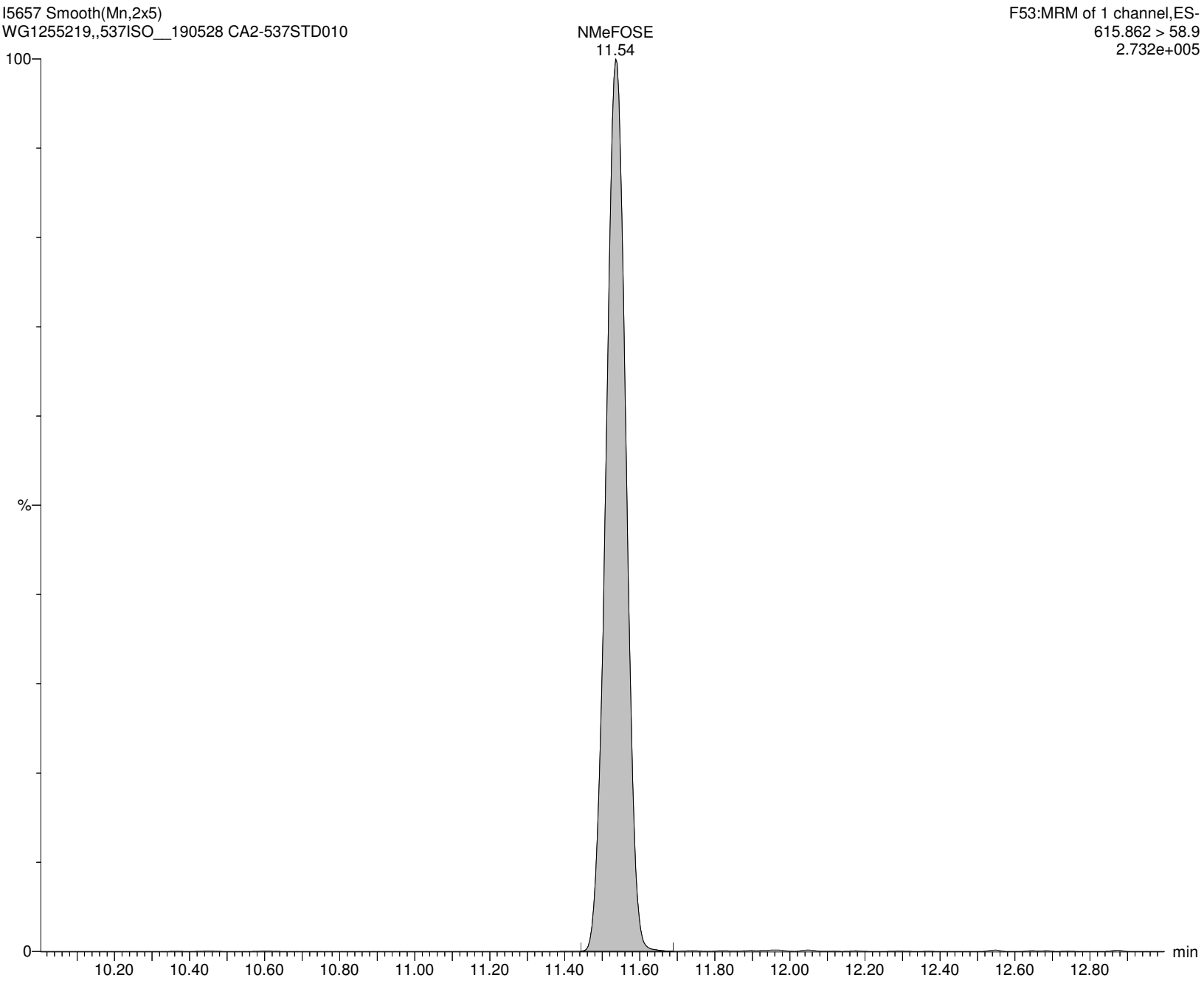


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICV.qld
Last Altered: Tuesday, July 02, 2019 11:12:50 Eastern Daylight Time
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Date: 02-Jul-2019
Time: 10:24:16
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User: LCMS02:JW
Vial: 1:B,2
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Tune Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\181009_TUNE.IPR
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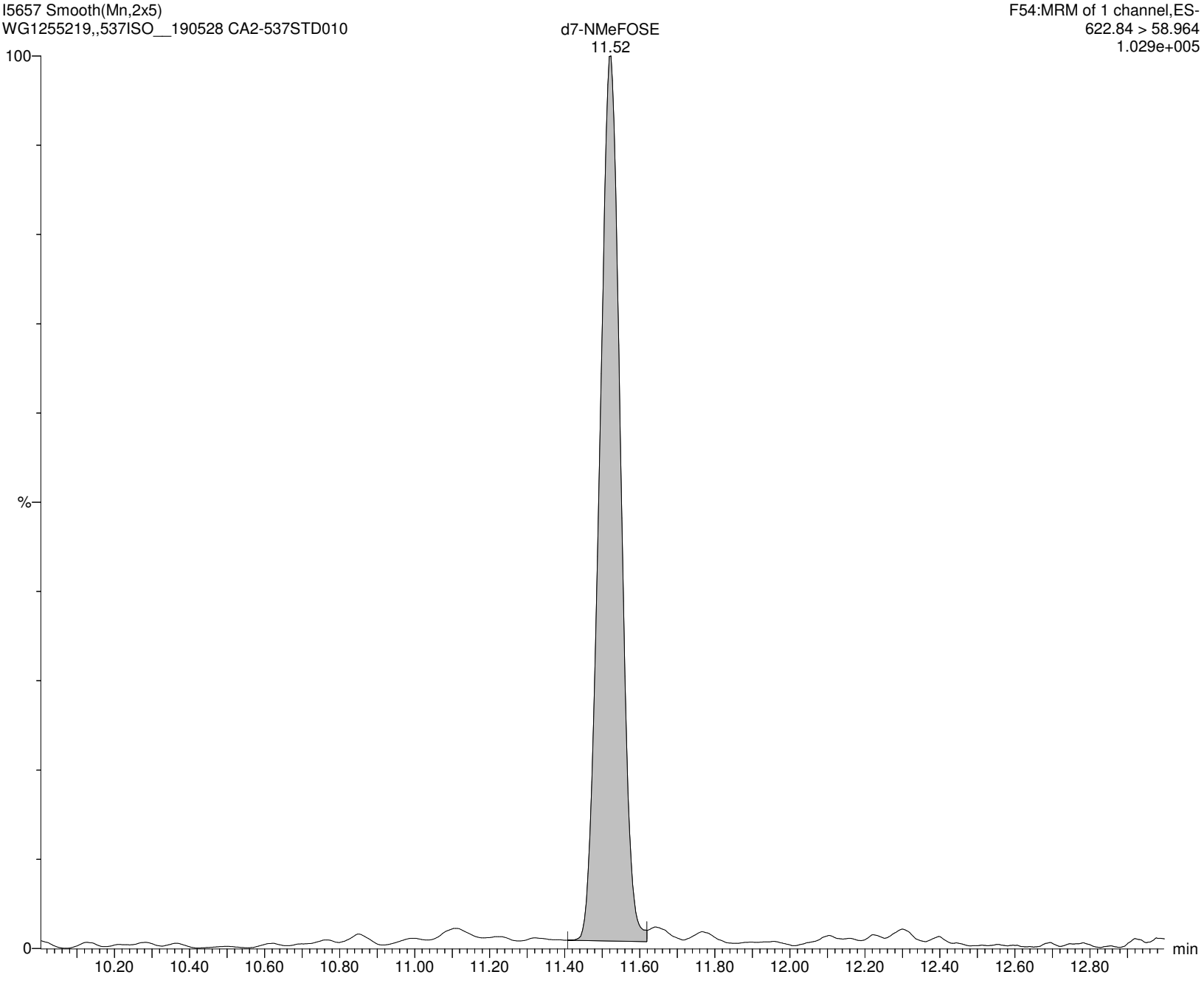


all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICV.qld
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Time: 10:24:16
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User: LCMS02:JW
Vial: 1:B,2
Instrument: XEVO-TQSmicro#QEB0050
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Tune Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\181009_TUNE.IPR
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d7-NMeFOSE

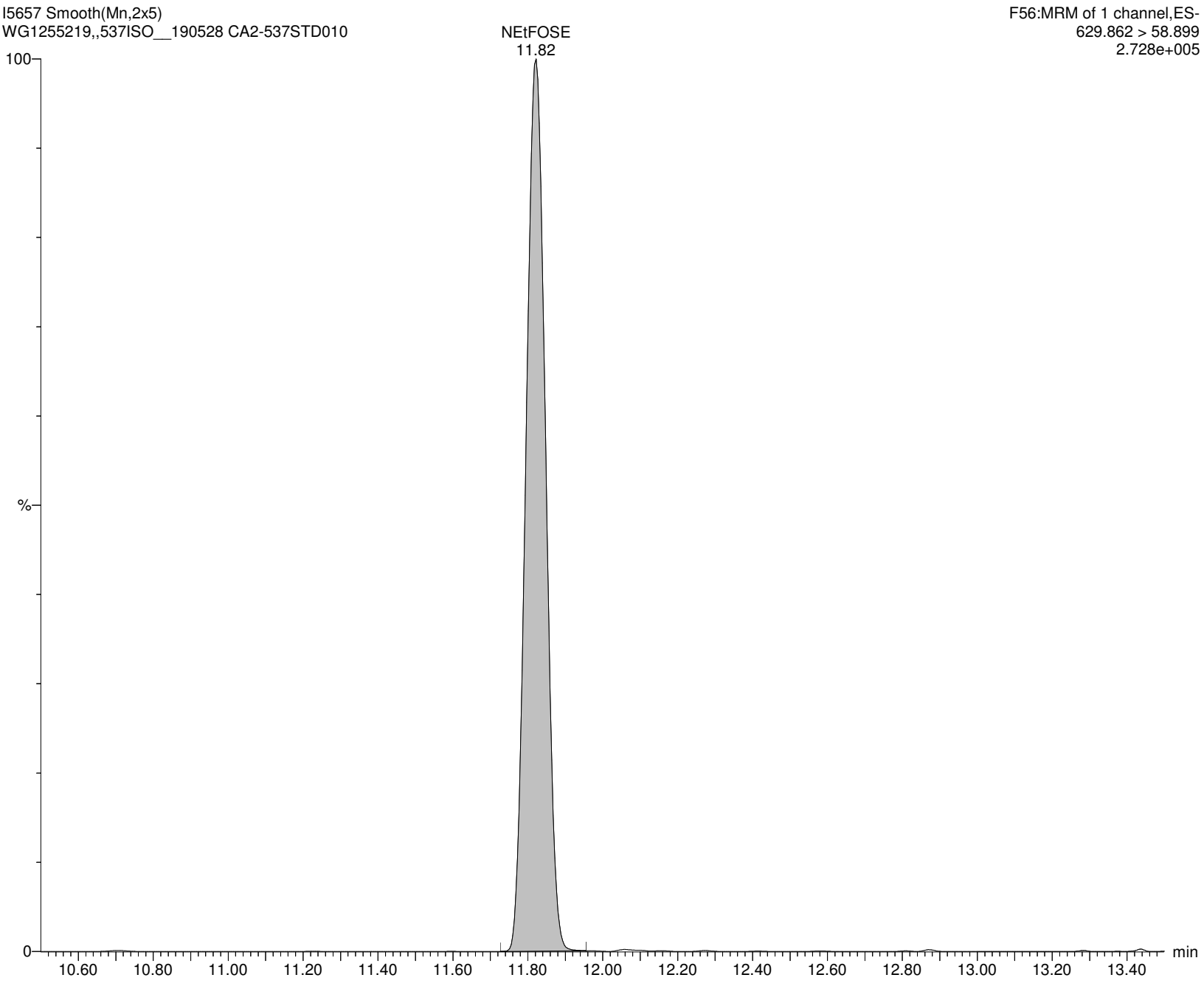


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICV.qld
Last Altered: Tuesday, July 02, 2019 11:12:50 Eastern Daylight Time
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Date: 02-Jul-2019
Time: 10:24:16
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User: LCMS02:JW
Vial: 1:B,2
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Tune Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\181009_TUNE.IPR
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NEtFOSE

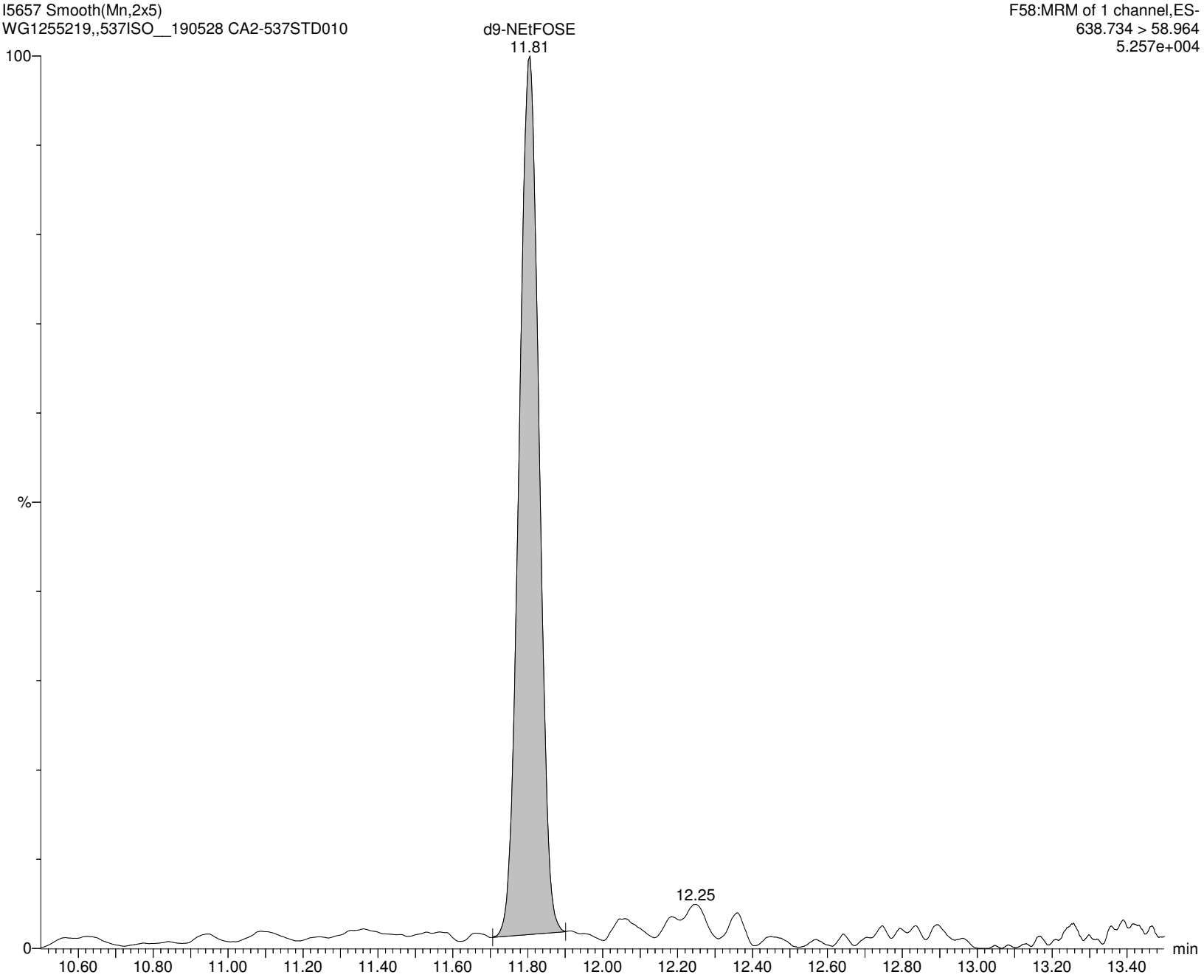


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\WG1255219ICV.qld
Last Altered: Tuesday, July 02, 2019 11:12:50 Eastern Daylight Time
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Name: I5657
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Date: 02-Jul-2019
Time: 10:24:16
Description: WG1255219,,537ISO__190528
User: LCMS02:JW
Vial: 1:B,2
Instrument: XEVO-TQSmicro#QEB0050
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Tune Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

d9-NEtFOSE



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\TECHSTD.qld
Last Altered: Tuesday, July 02, 2019 09:51:45 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 10:07:45 Eastern Daylight Time

Method: C:\MassLynx\Data\2019\190701_537ISO.PRO\MethDB\537ISO_Q_190702_DOD.mdb 02 Jul 2019 09:37:50
Calibration: C:\MassLynx\Data\2019\190701_537ISO.PRO\CurveDB\190702_ISO_ICAL.cdb 02 Jul 2019 09:28:52

ID: TECHSTD_190520A
Name: I5653
Date: 01-Jul-2019
Time: 23:12:00
Description: WG1255219,,537ISO_TECHSTD_190520A
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	br-PFOA	335-67-1	8.92	412.989 > 368.9	48163	M5	4.822	3.18	NO	
2	L-PFOA	335-67-1	9.14	412.989 > 368.9	322777		32.319	9.67	NO	
3	M2PFOA	INT STD	9.15	415.032 > 369.968	97265		10.668		na	106.7
4	PFOA	335-67-1		412.989 > 368.9	370940		37.142		na	
5	M8PFOA	INT STD	9.14	420.989 > 375.979	100621		10.412		na	104.1
6	d3-NMeFOSAA	INT STD	10.90	573.096 > 418.987	8990		9.620		na	96.2
7	NMeFOSAA	2355-31-9	10.91	570.053 > 418.917	37824	M5	41.422	3.02	NO	
8	d5-NEtFOSAA	INT STD	11.19	589.117 > 418.929	7565		8.934		na	89.3
9	NEtFOSAA	2991-50-6	11.19	583.989 > 418.927	30418	M5	39.762	3.26	NO	

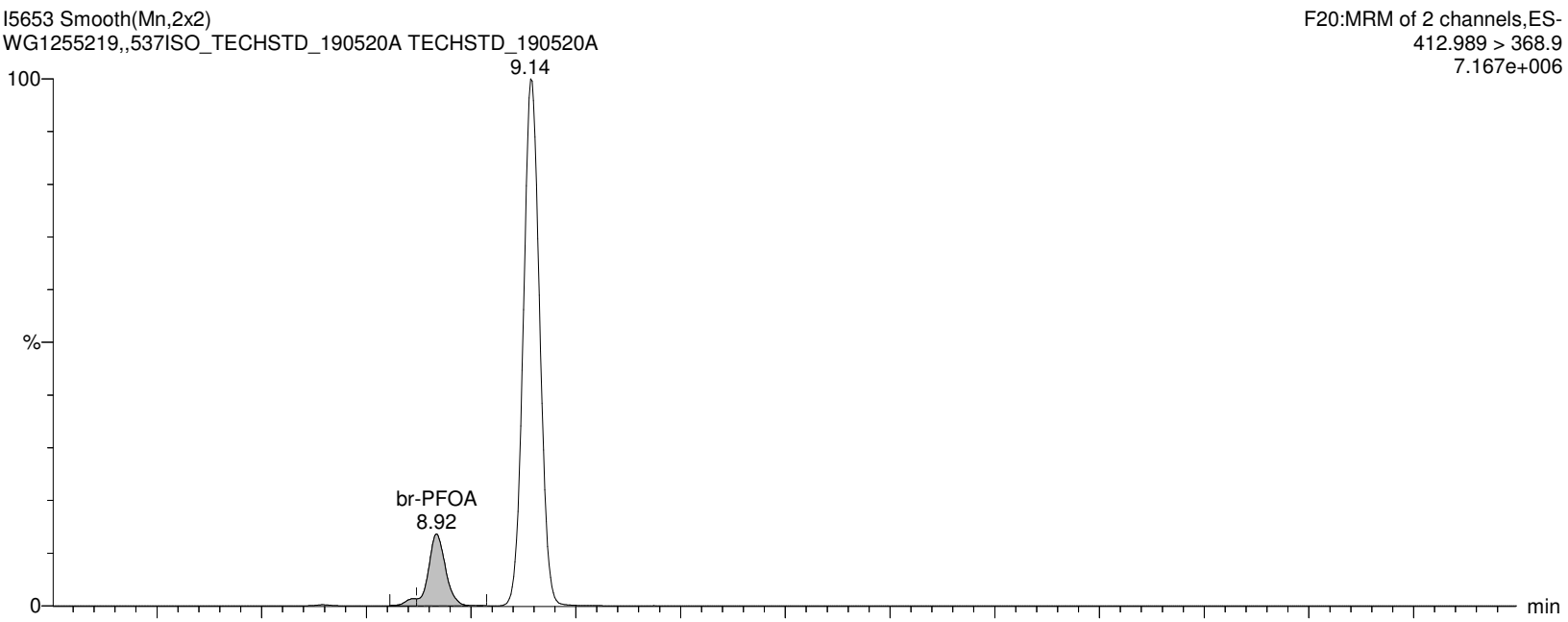
all concentration units in (ng/mL)

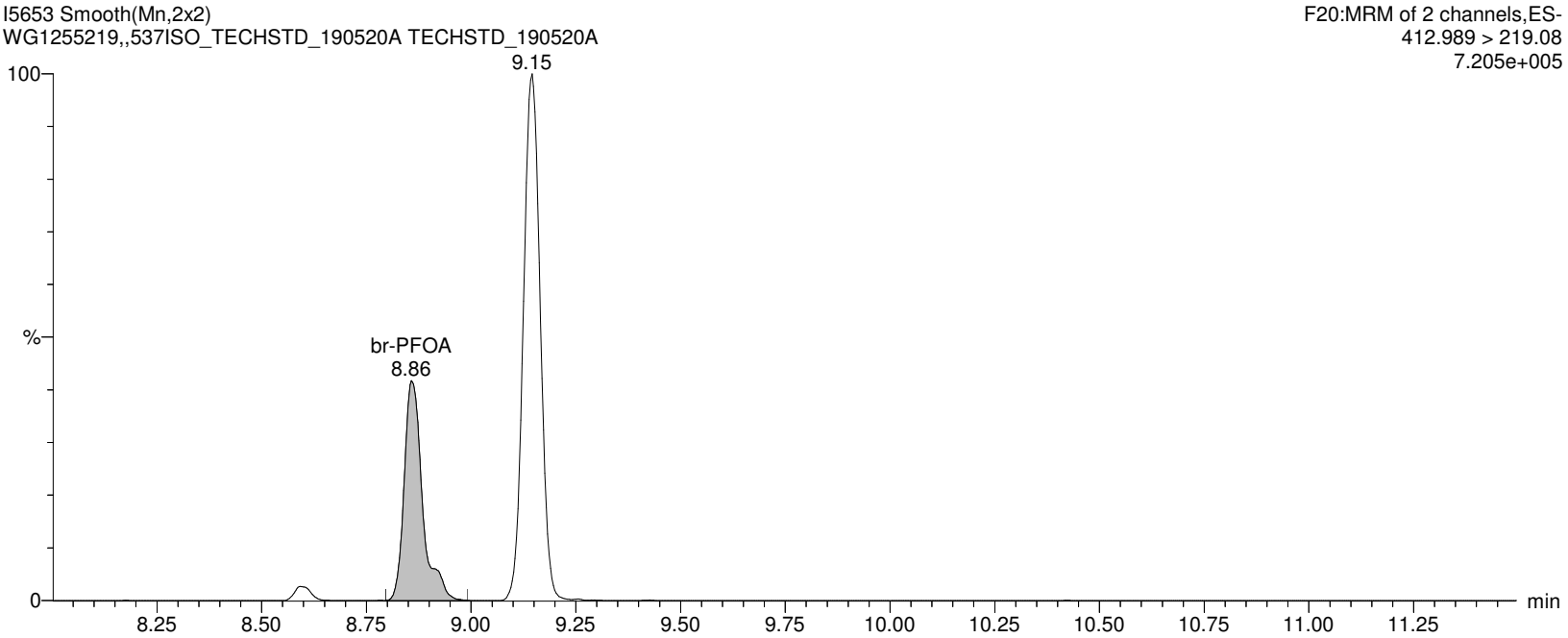
Alpha Analytical Inc.
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Printed: Tuesday, July 02, 2019 10:07:45 Eastern Daylight Time

Method: C:\MassLynx\Data\2019\190701_537ISO.PRO\MethDB\537ISO_Q_190702_DOD.mdb 02 Jul 2019 09:37:50
Calibration: C:\MassLynx\Data\2019\190701_537ISO.PRO\CurveDB\190702_ISO_ICAL.cdb 02 Jul 2019 09:28:52

Name: I5653
ID: TECHSTD_190520A
Date: 01-Jul-2019
Time: 23:12:00
Description: WG1255219,,537ISO_TECHSTD_190520A
User: LCMS02:JW
Vial: 1:B,3
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

br-PFOA



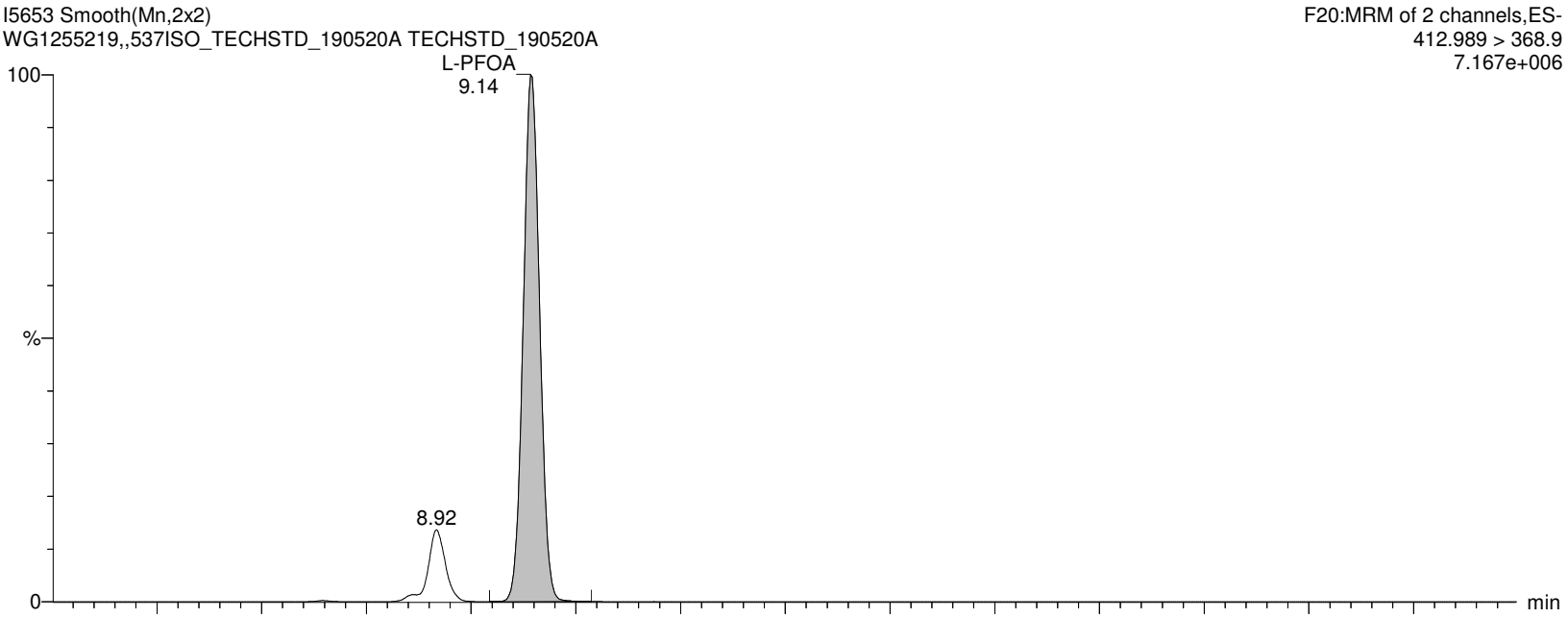


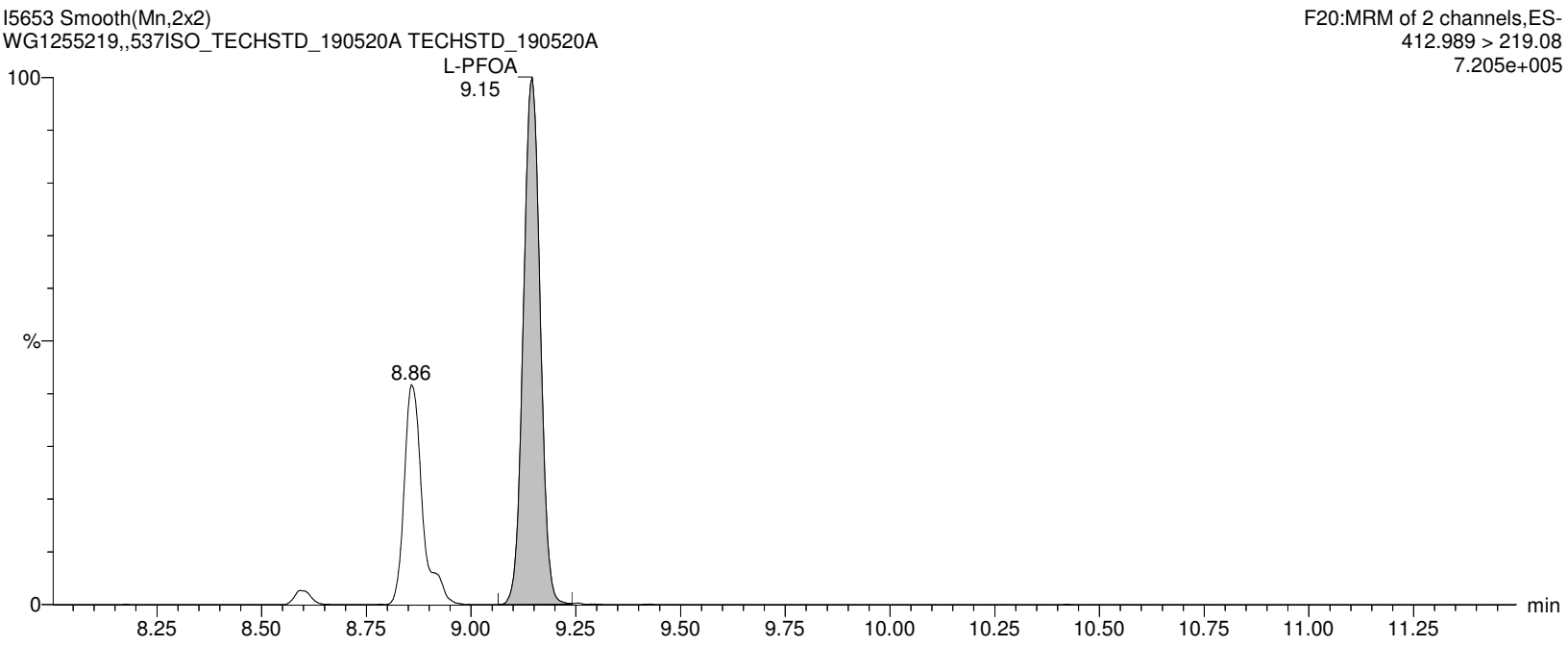
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\TECHSTD.qld
Last Altered: Tuesday, July 02, 2019 09:51:45 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 10:07:45 Eastern Daylight Time

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Date: 01-Jul-2019
Time: 23:12:00
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User: LCMS02:JW
Vial: 1:B,3
Instrument: XEVO-TQSmicro#QEB0050
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L-PFOA



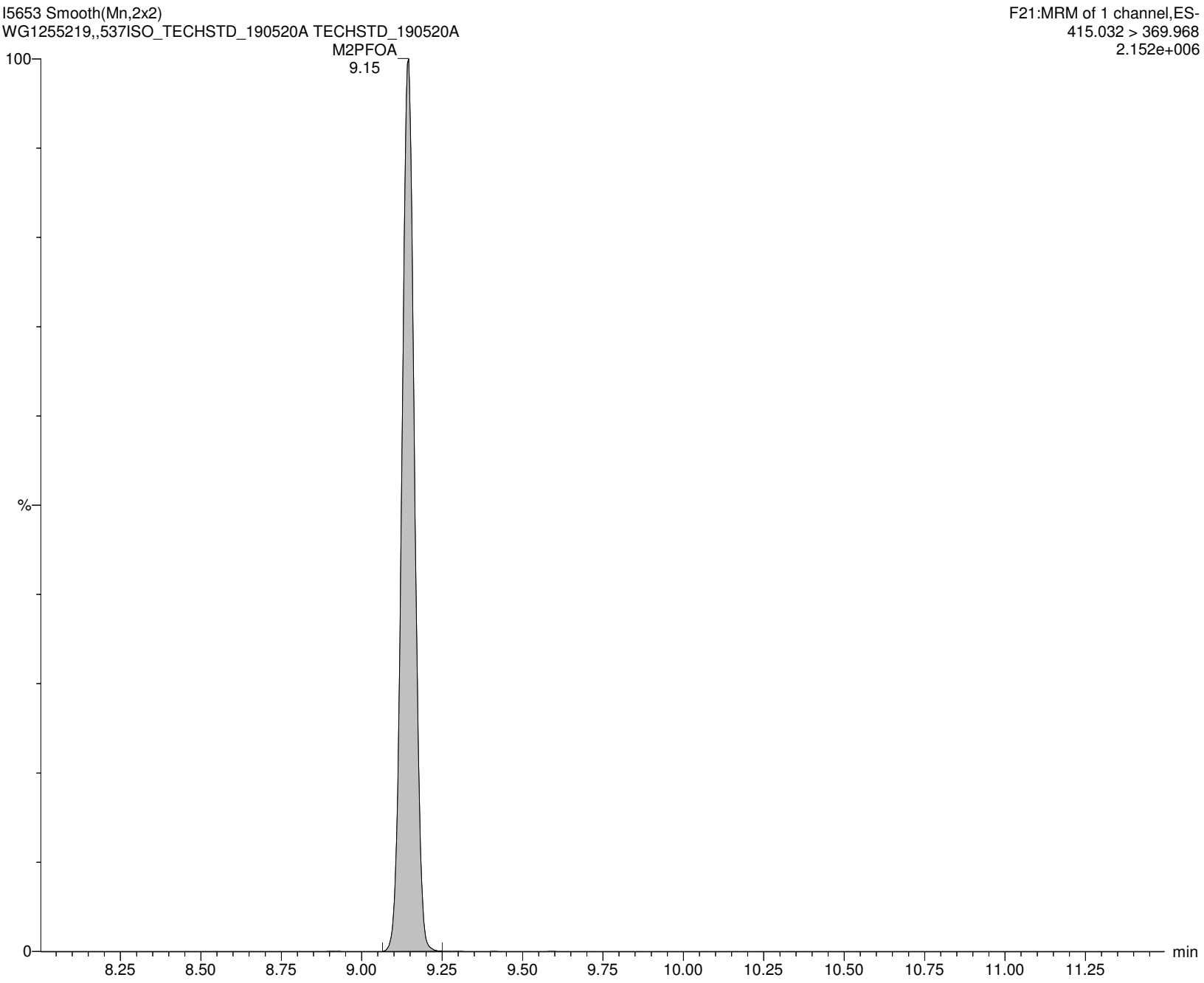


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\TECHSTD.qld
Last Altered: Tuesday, July 02, 2019 09:51:45 Eastern Daylight Time
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Name: I5653
ID: TECHSTD_190520A
Date: 01-Jul-2019
Time: 23:12:00
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User: LCMS02:JW
Vial: 1:B,3
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\181009_TUNE.IPR
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M2PFOA

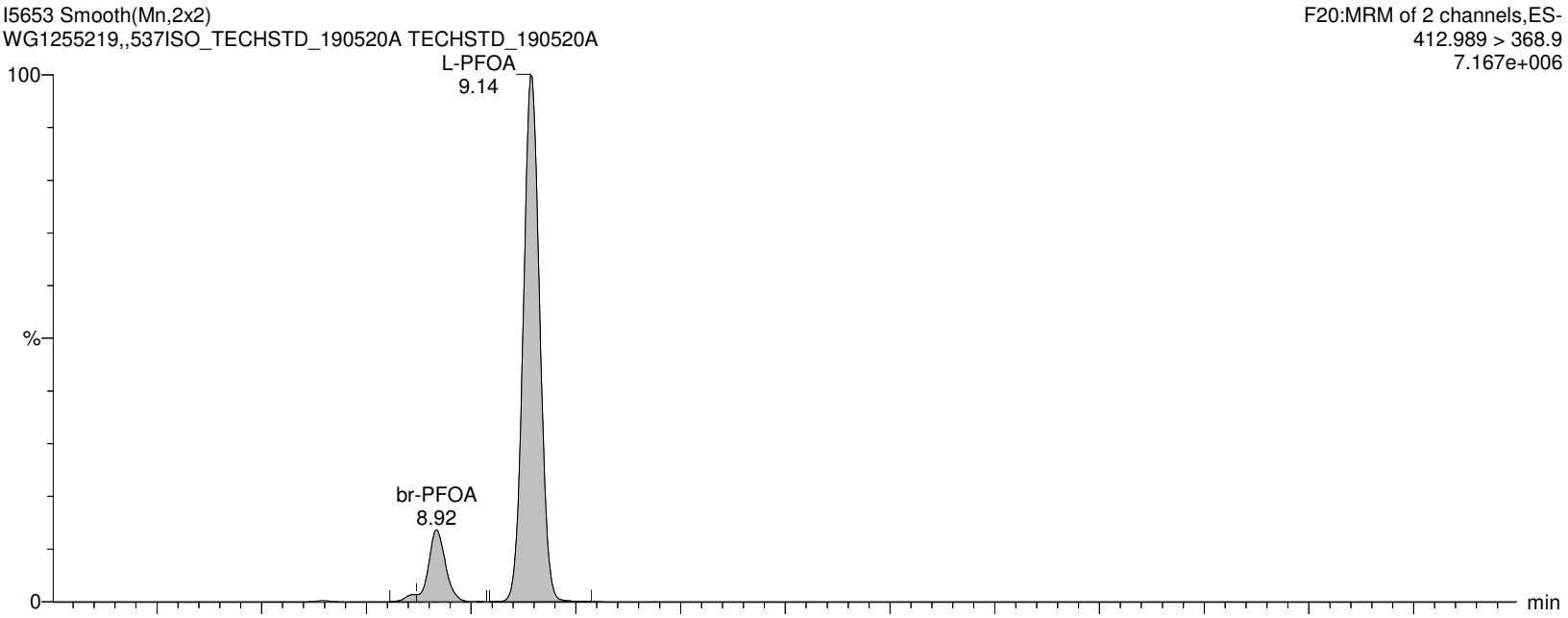


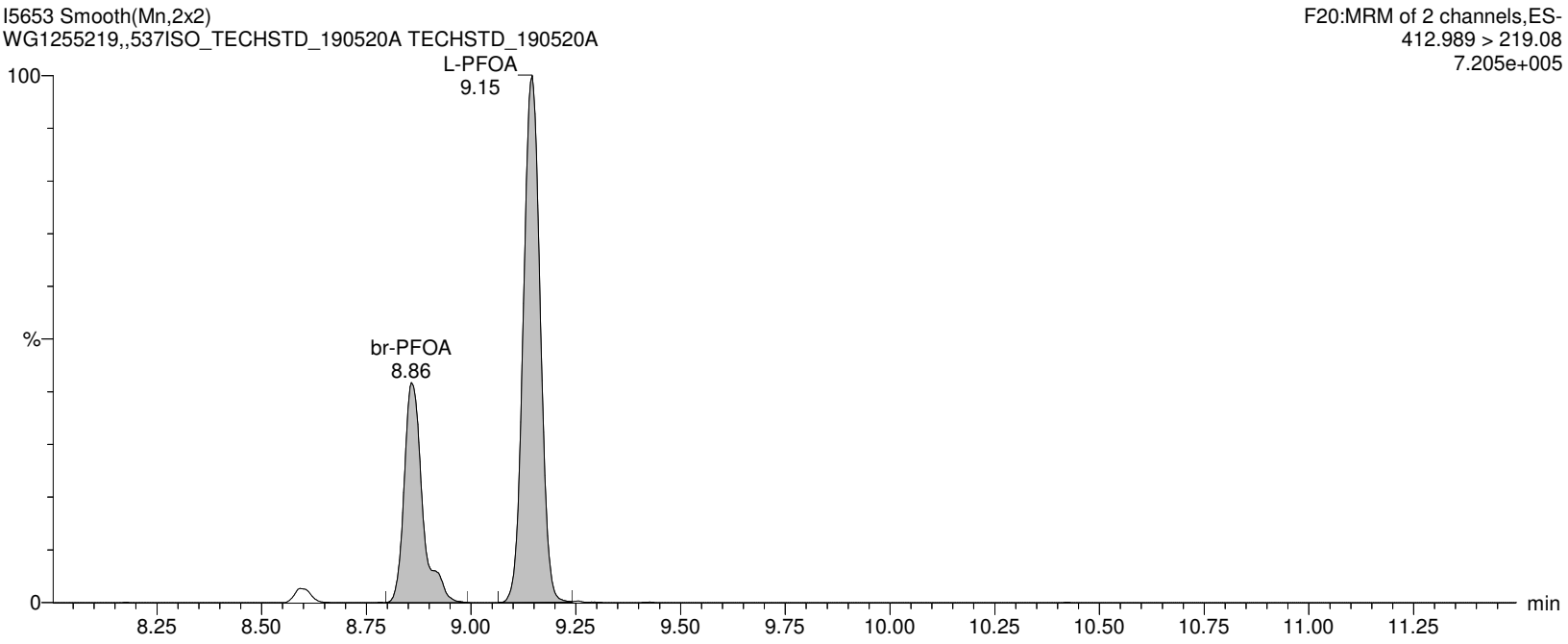
all concentration units in (ng/mL)

Alpha Analytical Inc.
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MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

PFOA



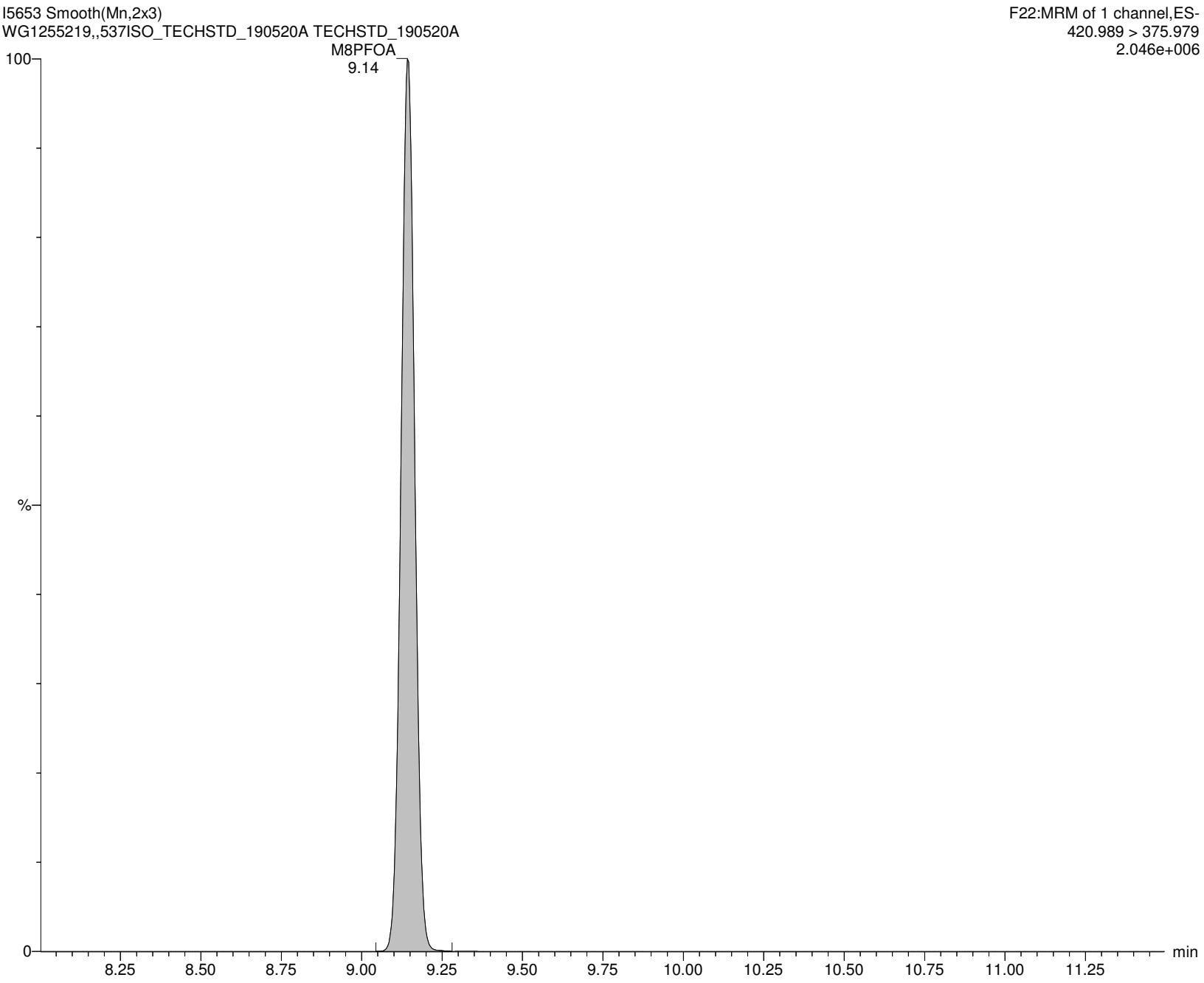


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\TECHSTD.qld
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Vial: 1:B,3
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Tune Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\181009_TUNE.IPR
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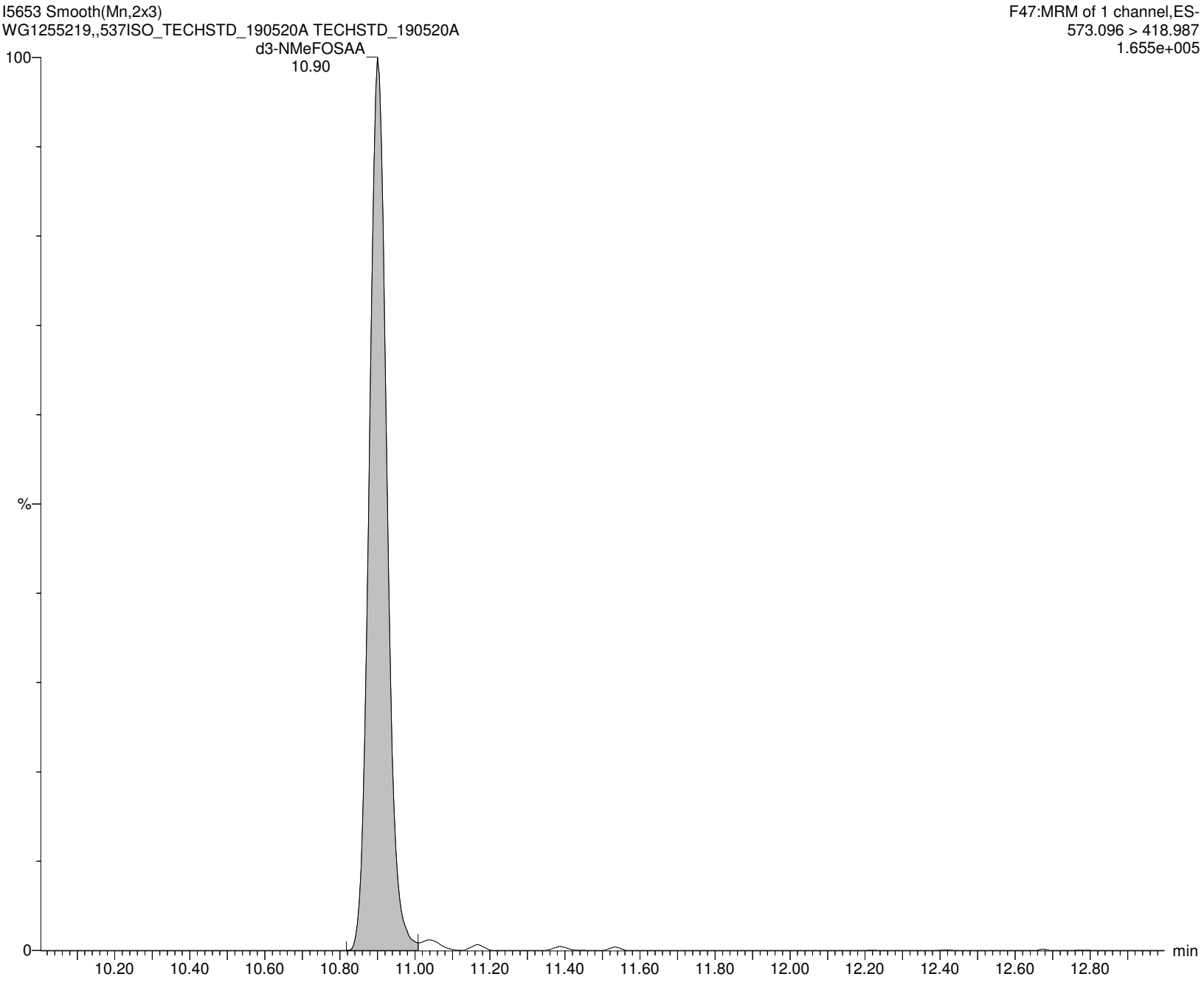


all concentration units in (ng/mL)

Alpha Analytical Inc.
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d3-NMeFOSAA

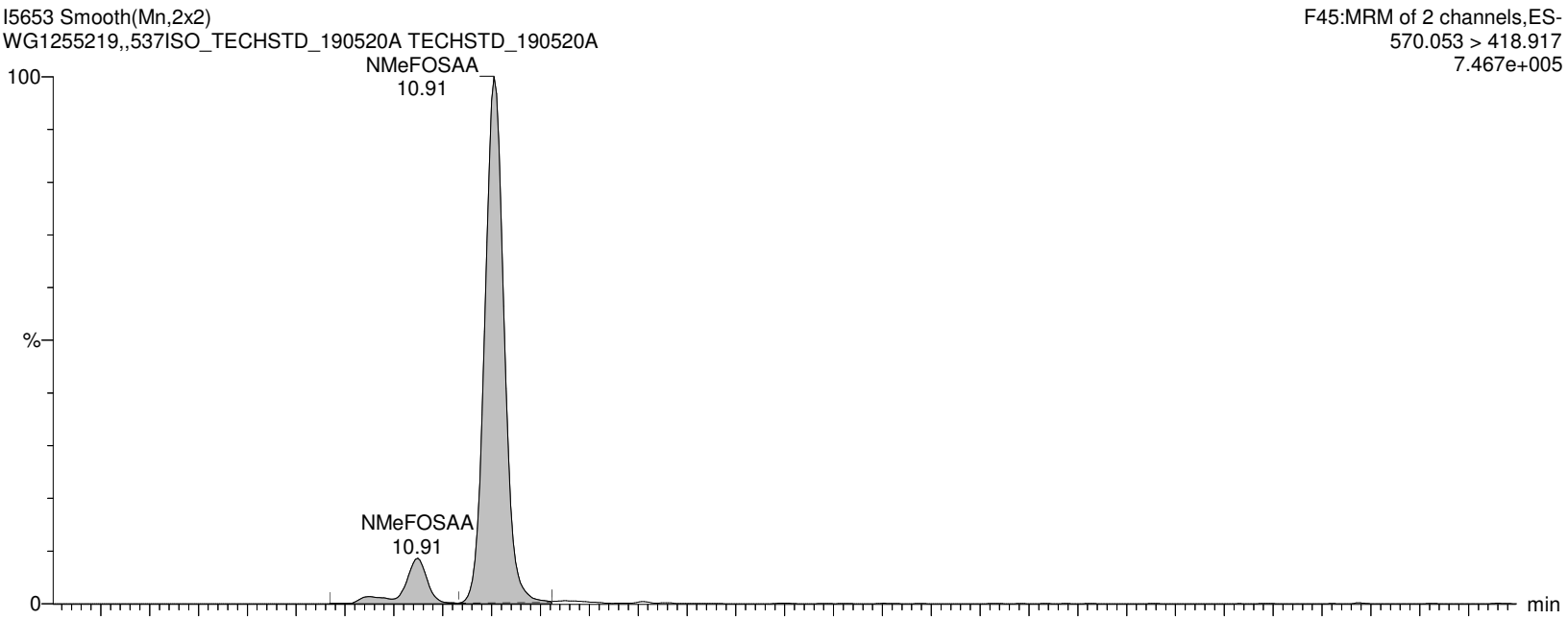


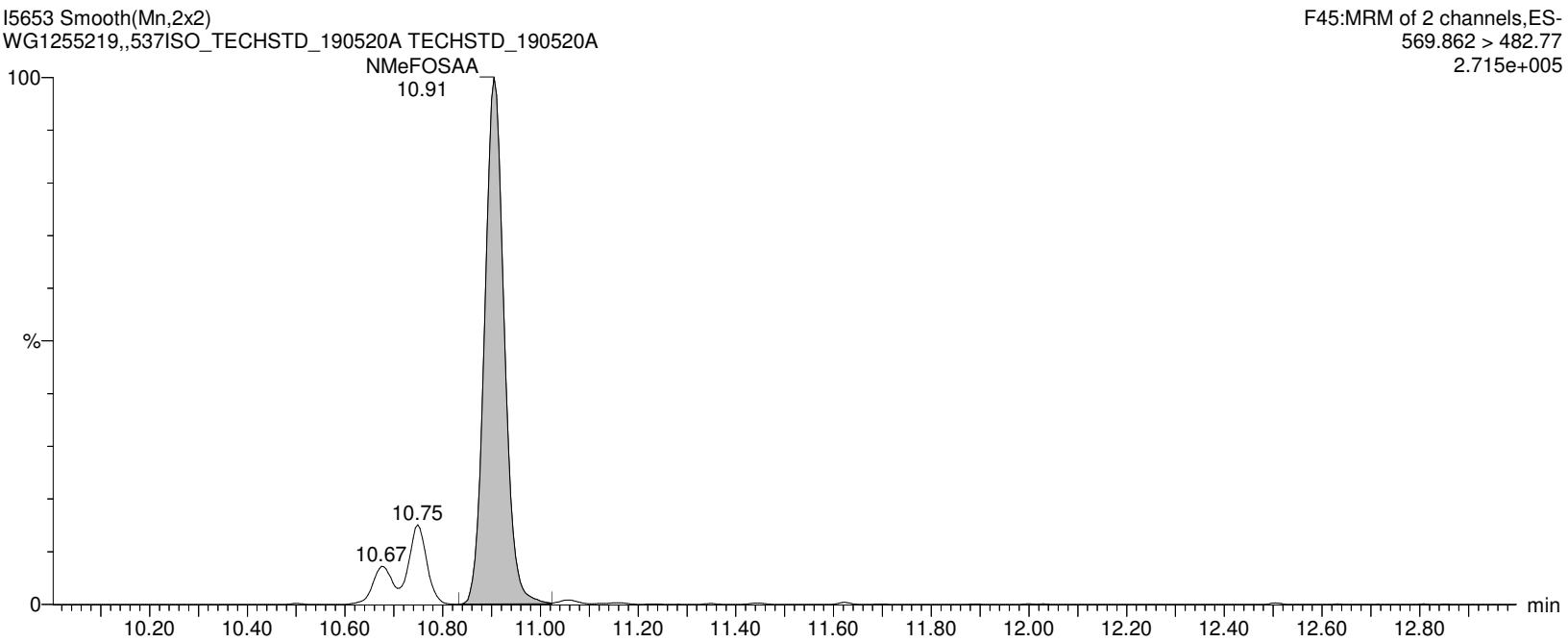
all concentration units in (ng/mL)

Alpha Analytical Inc.
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NMeFOSAA



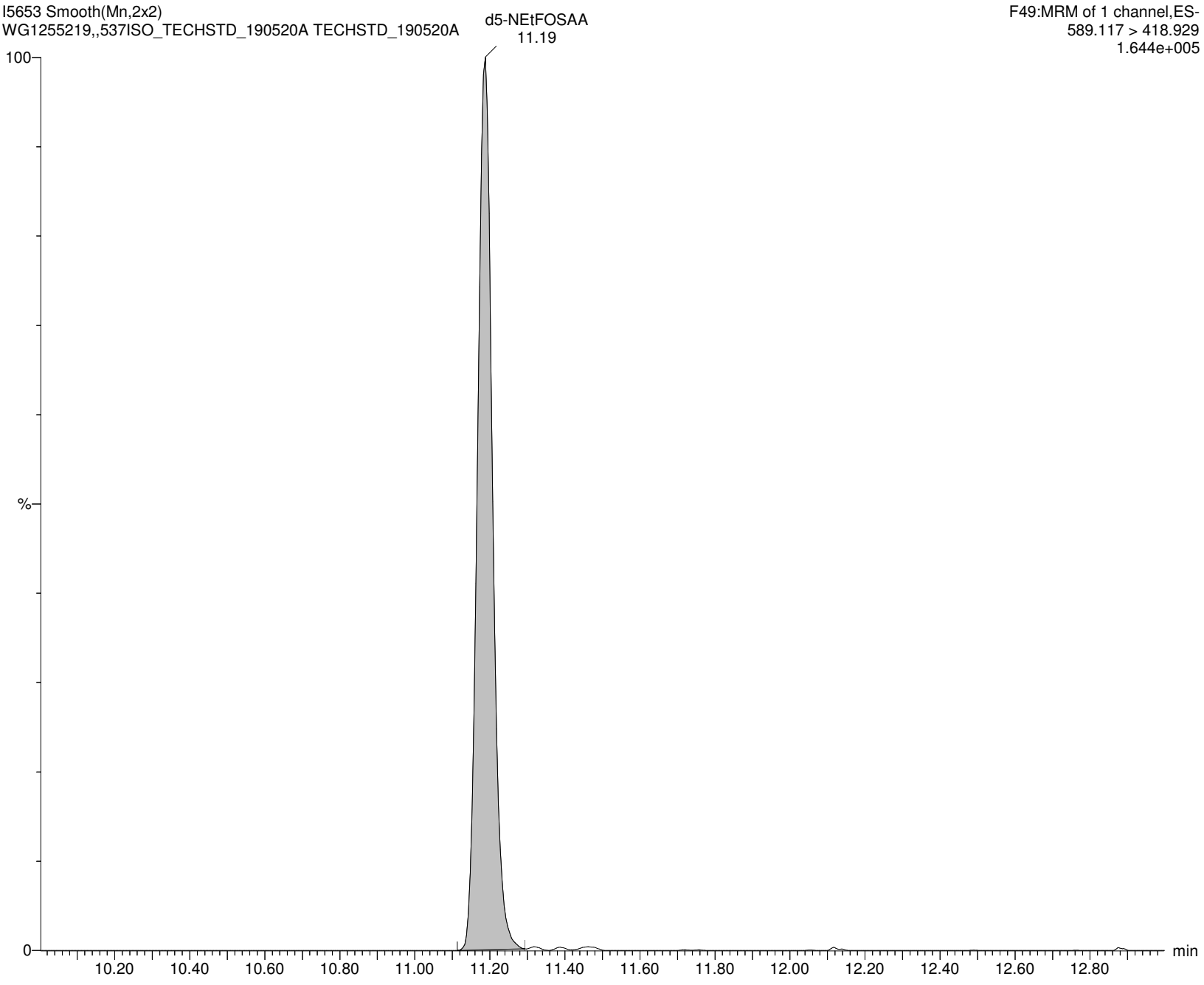


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Tuesday, July 02, 2019 09:51:45 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 10:07:45 Eastern Daylight Time

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ID: TECHSTD_190520A
Date: 01-Jul-2019
Time: 23:12:00
Description: WG1255219,,537ISO_TECHSTD_190520A
User: LCMS02:JW
Vial: 1:B,3
Instrument: XEVO-TQSmicro#QEB0050
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d5-NEtFOSAA

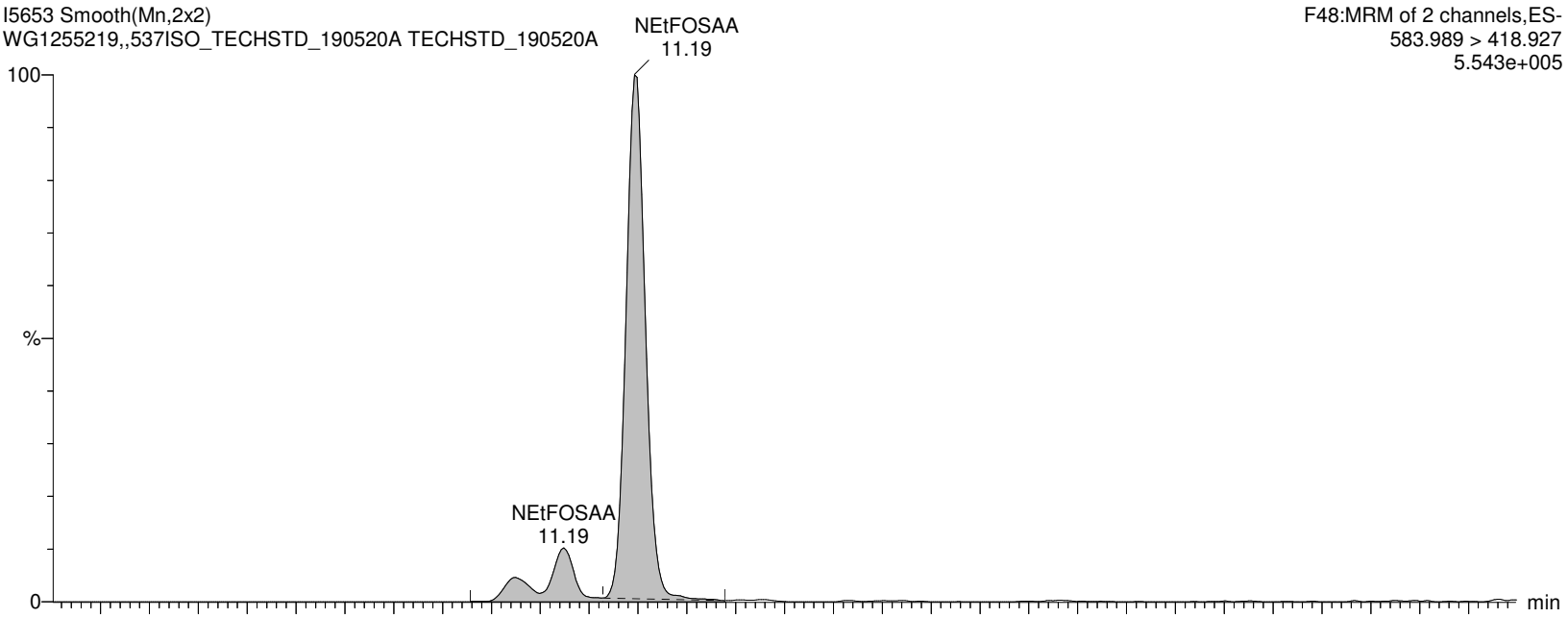


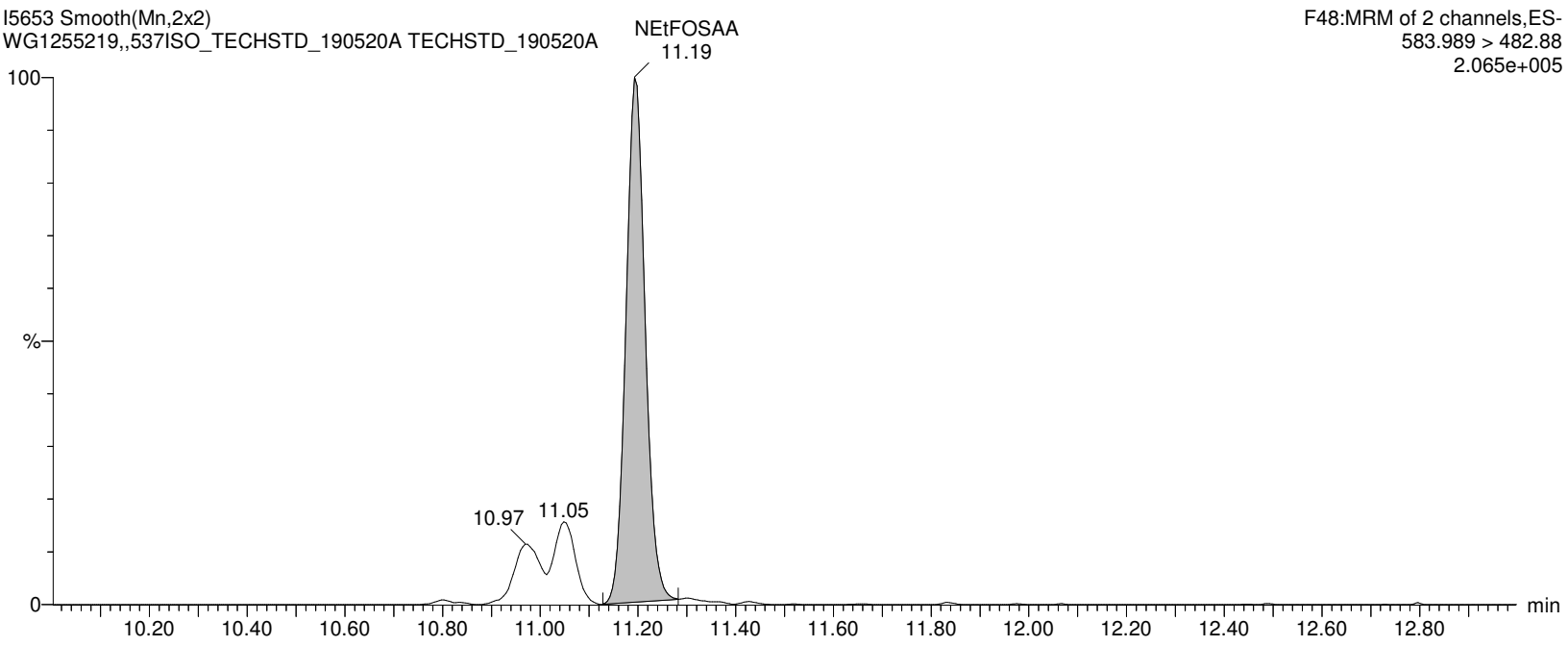
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190701_537ISO.PRO\Data\TECHSTD.qld
Last Altered: Tuesday, July 02, 2019 09:51:45 Eastern Daylight Time
Printed: Tuesday, July 02, 2019 10:07:45 Eastern Daylight Time

Name: I5653
ID: TECHSTD_190520A
Date: 01-Jul-2019
Time: 23:12:00
Description: WG1255219,,537ISO_TECHSTD_190520A
User: LCMS02:JW
Vial: 1:B,3
Instrument: XEVO-TQSmicro#QEB0050
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MS Method Name: C:\MassLynx\Data\2019\190701_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

NEtFOSAA





all concentration units in (ng/mL)

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Arcadis of New York, Inc.	**Lab Number**	: L1936410		
Project Name	: MADISON AVE MGP SITE-EC SAMP	**Project Number**	: 30030318		
Instrument ID	: LCMS02	**Calibration Date**	: 08/22/19 09:43		
Lab File ID	: I8060	**Init. Calib. Date(s)**	: 07/01/19	07/01/19	
Sample No	: WG1275463-1	**Init. Calib. Times**	: 17:57	19:53	
Channel	:				

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
Perfluorobutanoic Acid (PFBA)	0.458	0.500	91.7	50-150
Perfluoropentanoic Acid (PFPeA)	0.436	0.500	87.3	50-150
Perfluorobutanesulfonic Acid (PFBS)	0.378	0.440	85.5	50-150
Perfluorohexanoic Acid (PFHxA)	0.552	0.500	110.3	50-150
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	0.429	0.470	91.8	50-150
Perfluoropentanesulfonic Acid (PFPeS)	0.392	0.470	83.3	50-150
Perfluoroheptanoic Acid (PFHpA)	0.454	0.500	90.7	50-150
Perfluorohexanesulfonic Acid-Branched (br-PFHxS)	0.060	0.090	70.2	50-150
Perfluorohexanesulfonic Acid-Linear (L-PFHxS)	0.267	0.370	72.1	50-150
Perfluorohexanesulfonic Acid (PFHxS)	0.326	0.460	-	50-150
Perfluorooctanoic Acid-Branched (br-PFOA)				
Perfluorooctanoic Acid-Linear (L-PFOA)	0.458	0.500	91.6	50-150
Perfluorooctanoic Acid (PFOA)	0.458	0.500	-	50-150
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.254	0.480	53.6	50-150
Perfluoroheptanesulfonic Acid (PFHpS)	0.308	0.480	64.8	50-150
Perfluorononanoic Acid (PFNA)	0.458	0.500	91.6	50-150
Perfluorooctanesulfonic Acid-Branched (br-PFOS)	0.090	0.100	89.9	50-150
Perfluorooctanesulfonic Acid-Linear (L-PFOS)	0.195	0.370	53.4	50-150
Perfluorooctanesulfonic Acid (PFOS)	0.285	0.460	-	50-150
Perfluorodecanoic Acid (PFDA)	0.471	0.500	94.2	50-150
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	0.292	0.480	60.9	50-150
Perfluorononanesulfonic Acid (PFNS)	0.498	0.480	103.8	50-150
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	0.361	0.500	72.2	50-150
Perfluoroundecanoic Acid (PFUnA)	0.457	0.500	91.4	50-150
Perfluorodecanesulfonic Acid (PFDS)	0.454	0.480	94	50-150
Perfluorooctanesulfonamide (FOSA)	0.406	0.500	81.3	50-150
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.479	0.500	95.8	50-150
Perfluorododecanoic Acid (PFDoA)	0.514	0.500	102.8	50-150
Perfluorotridecanoic Acid (PFTrDA)	0.564	0.500	112.7	50-150
Perfluorotetradecanoic Acid (PFTA)	0.536	0.500	107.1	50-150
Perfluoro[13C4]Butanoic Acid (MPFBA)	9.196	10.000	92	50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	10.203	10.000	102	50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	8.343	10.000	83.4	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	4.001	10.000	40*	50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	8.844	10.000	88.4	50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	8.974	10.000	89.7	50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	8.819	10.000	88.2	50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	9.279	10.000	92.8	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	3.510	10.000	35.1*	50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	9.601	10.000	96	50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	9.795	10.000	98	50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	9.079	10.000	90.8	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	3.661	10.000	36.6*	50-150

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Arcadis of New York, Inc.	**Lab Number**	: L1936410		
Project Name	: MADISON AVE MGP SITE-EC SAMP	**Project Number**	: 30030318		
Instrument ID	: LCMS02	**Calibration Date**	: 08/22/19 09:43		
Lab File ID	: I8060	**Init. Calib. Date(s)**	: 07/01/19	07/01/19	
Sample No	: WG1275463-1	**Init. Calib. Times**	: 17:57	19:53	
Channel	:				

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	7.258	10.000	72.6	50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	9.177	10.000	91.8	50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	10.151	10.000	101.5	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	7.224	10.000	72.2	50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	8.294	10.000	82.9	50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	8.135	10.000	81.4	50-150
M4PFOS	12.180		121.8	
M2PFDA	12.074		120.7	
M2PFOA	11.577		115.8	
M3PFBA	10.112		101.1	

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Arcadis of New York, Inc.	**Lab Number**	: L1936410		
Project Name	: MADISON AVE MGP SITE-EC SAMP	**Project Number**	: 30030318		
Instrument ID	: LCMS02	**Calibration Date**	: 08/22/19 13:06		
Lab File ID	: I8071	**Init. Calib. Date(s)**	: 07/01/19	07/01/19	
Sample No	: WG1275463-2	**Init. Calib. Times**	: 17:57	19:53	
Channel	:				

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
Perfluorobutanoic Acid (PFBA)	9.607	10.000	96.1	70-130
Perfluoropentanoic Acid (PFPeA)	8.816	10.000	88.2	70-130
Perfluorobutanesulfonic Acid (PFBS)	7.033	8.850	79.5	70-130
Perfluorohexanoic Acid (PFHxA)	9.583	10.000	95.8	70-130
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	9.525	9.350	101.9	70-130
Perfluoropentanesulfonic Acid (PFPeS)	7.969	9.400	84.8	70-130
Perfluoroheptanoic Acid (PFHpA)	9.630	10.000	96.3	70-130
Perfluorohexanesulfonic Acid-Branched (br-PFHxS)	2.252	1.720	132.5*	70-130
Perfluorohexanesulfonic Acid-Linear (L-PFHxS)	7.503	7.400	101.4	70-130
Perfluorohexanesulfonic Acid (PFHxS)	9.755	9.120	-	70-130
Perfluorooctanoic Acid-Branched (br-PFOA)				
Perfluorooctanoic Acid-Linear (L-PFOA)	9.294	10.000	92.9	70-130
Perfluorooctanoic Acid (PFOA)	9.294	10.000	-	70-130
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	9.216	9.500	97	70-130
Perfluoroheptanesulfonic Acid (PFHpS)	7.858	9.500	82.7	70-130
Perfluorononanoic Acid (PFNA)	9.089	10.000	90.9	70-130
Perfluorooctanesulfonic Acid-Branched (br-PFOS)	2.160	1.960	108	70-130
Perfluorooctanesulfonic Acid-Linear (L-PFOS)	6.839	7.300	93.7	70-130
Perfluorooctanesulfonic Acid (PFOS)	8.999	9.260	-	70-130
Perfluorodecanoic Acid (PFDA)	9.823	10.000	98.2	70-130
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	8.770	9.600	91.4	70-130
Perfluorononanesulfonic Acid (PFNS)	8.466	9.600	88.2	70-130
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	9.740	10.000	97.4	70-130
Perfluoroundecanoic Acid (PFUnA)	9.232	10.000	92.3	70-130
Perfluorodecanesulfonic Acid (PFDS)	9.000	9.650	93.3	70-130
Perfluorooctanesulfonamide (FOSA)	7.725	10.000	77.3	70-130
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	9.676	10.000	96.8	70-130
Perfluorododecanoic Acid (PFDoA)	10.196	10.000	102	70-130
Perfluorotridecanoic Acid (PFTrDA)	10.268	10.000	102.7	70-130
Perfluorotetradecanoic Acid (PFTA)	10.015	10.000	100.2	70-130
Perfluoro[13C4]Butanoic Acid (MPFBA)	9.040	10.000	90.4	50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	10.154	10.000	101.5	50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	8.420	10.000	84.2	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	4.261	10.000	42.6*	50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	8.683	10.000	86.8	50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	8.674	10.000	86.7	50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	9.104	10.000	91	50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	9.043	10.000	90.4	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	4.209	10.000	42.1*	50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	9.691	10.000	96.9	50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	9.764	10.000	97.6	50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	8.870	10.000	88.7	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	4.494	10.000	44.9*	50-150

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Arcadis of New York, Inc.	**Lab Number**	: L1936410		
Project Name	: MADISON AVE MGP SITE-EC SAMP	**Project Number**	: 30030318		
Instrument ID	: LCMS02	**Calibration Date**	: 08/22/19 13:06		
Lab File ID	: I8071	**Init. Calib. Date(s)**	: 07/01/19	07/01/19	
Sample No	: WG1275463-2	**Init. Calib. Times**	: 17:57	19:53	
Channel	:				

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	7.573	10.000	75.7	50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	9.195	10.000	91.9	50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	10.042	10.000	100.4	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	7.478	10.000	74.8	50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	8.260	10.000	82.6	50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	8.647	10.000	86.5	50-150
M4PFOS	11.391		113.9	
M2PFDA	11.640		116.4	
M2PFOA	10.971		109.7	
M3PFBA	9.130		91.3	

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Arcadis of New York, Inc.	**Lab Number**	: L1936410		
Project Name	: MADISON AVE MGP SITE-EC SAMP	**Project Number**	: 30030318		
Instrument ID	: LCMS02	**Calibration Date**	: 08/22/19 16:20		
Lab File ID	: I8082	**Init. Calib. Date(s)**	: 07/01/19	07/01/19	
Sample No	: WG1275463-3	**Init. Calib. Times**	: 17:57	19:53	
Channel	:				

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
Perfluorobutanoic Acid (PFBA)	0.465	0.500	92.9	50-150
Perfluoropentanoic Acid (PFPeA)	0.439	0.500	87.9	50-150
Perfluorobutanesulfonic Acid (PFBS)	0.362	0.440	81.8	50-150
Perfluorohexanoic Acid (PFHxA)	0.559	0.500	111.8	50-150
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	0.376	0.470	80.4	50-150
Perfluoropentanesulfonic Acid (PFPeS)	0.416	0.470	88.5	50-150
Perfluoroheptanoic Acid (PFHpA)	0.454	0.500	90.8	50-150
Perfluorohexanesulfonic Acid-Branched (br-PFHxS)	0.083	0.090	97.6	50-150
Perfluorohexanesulfonic Acid-Linear (L-PFHxS)	0.368	0.370	99.4	50-150
Perfluorohexanesulfonic Acid (PFHxS)	0.451	0.460	-	50-150
Perfluorooctanoic Acid-Branched (br-PFOA)				
Perfluorooctanoic Acid-Linear (L-PFOA)	0.489	0.500	97.9	50-150
Perfluorooctanoic Acid (PFOA)	0.489	0.500	-	50-150
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.558	0.480	117.5	50-150
Perfluoroheptanesulfonic Acid (PFHpS)	0.365	0.480	76.8	50-150
Perfluorononanoic Acid (PFNA)	0.457	0.500	91.5	50-150
Perfluorooctanesulfonic Acid-Branched (br-PFOS)	0.043	0.100	42.6*	50-150
Perfluorooctanesulfonic Acid-Linear (L-PFOS)	0.345	0.370	94.5	50-150
Perfluorooctanesulfonic Acid (PFOS)	0.388	0.460	-	50-150
Perfluorodecanoic Acid (PFDA)	0.500	0.500	100	50-150
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	0.430	0.480	89.7	50-150
Perfluorononanesulfonic Acid (PFNS)	0.361	0.480	75.2	50-150
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	0.475	0.500	95	50-150
Perfluoroundecanoic Acid (PFUnA)	0.488	0.500	97.6	50-150
Perfluorodecanesulfonic Acid (PFDS)	0.431	0.480	89.4	50-150
Perfluorooctanesulfonamide (FOSA)	0.366	0.500	73.3	50-150
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.470	0.500	94	50-150
Perfluorododecanoic Acid (PFDoA)	0.480	0.500	96	50-150
Perfluorotridecanoic Acid (PFTrDA)	0.485	0.500	96.9	50-150
Perfluorotetradecanoic Acid (PFTA)	0.549	0.500	109.9	50-150
Perfluoro[13C4]Butanoic Acid (MPFBA)	9.194	10.000	91.9	50-150
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	10.494	10.000	104.9	50-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	7.759	10.000	77.6	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	3.879	10.000	38.8*	50-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	8.794	10.000	87.9	50-150
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	8.851	10.000	88.5	50-150
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	8.473	10.000	84.7	50-150
Perfluoro[13C8]Octanoic Acid (M8PFOA)	9.267	10.000	92.7	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	3.431	10.000	34.3*	50-150
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	9.632	10.000	96.3	50-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	9.327	10.000	93.3	50-150
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	9.233	10.000	92.3	50-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	4.167	10.000	41.7*	50-150

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Arcadis of New York, Inc.	**Lab Number**	: L1936410
Project Name	: MADISON AVE MGP SITE-EC SAMP	**Project Number**	: 30030318
Instrument ID	: LCMS02	**Calibration Date**	: 08/22/19 16:20
Lab File ID	: I8082	**Init. Calib. Date(s)**	: 07/01/19 07/01/19
Sample No	: WG1275463-3	**Init. Calib. Times**	: 17:57 19:53
Channel	:		

Compound	Concentration (ng/ml)	True Value (ng/ml)	% Recovery	QC Limits
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	7.641	10.000	76.4	50-150
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	9.203	10.000	92	50-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	9.411	10.000	94.1	50-150
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	7.502	10.000	75	50-150
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	8.632	10.000	86.3	50-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	8.772	10.000	87.7	50-150
M4PFOS	13.632		136.3	
M2PFDA	12.798		128	
M2PFOA	12.100		121	
M3PFBA	9.671		96.7	

* Value outside of QC limits.

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463-1.qld
Last Altered: Thursday, August 22, 2019 10:11:46 Eastern Daylight Time
Printed: Thursday, August 22, 2019 10:12:11 Eastern Daylight Time

Method: C:\MassLynx\Data\2019\190820_537ISO.PRO\MethDB\537ISO_Q_190702_DODRT.mdb 07 Aug 2019 10:42:09
Calibration: C:\MassLynx\Data\2019\190820_537ISO.PRO\CurveDB\190702_ISO_ICAL.cdb 02 Jul 2019 11:07:37

ID: WG1275463-1,537ILOW
Name: I8060
Date: 22-Aug-2019
Time: 09:43:11
Description: WG1275463,WG1274916,ICAL15922,537ILOW
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.09	212.926 > 169.111	1683		0.458		na	91.7
2	M3PFBA	INT STD	2.09	215.926 > 172.122	39108		10.112		na	101.1
3	MPFBA	INT STD	2.09	216.926 > 172.137	40330		9.196		na	92.0
4	PFPeA	2706-90-3	4.97	262.926 > 219.002	2836		0.436		na	87.3
5	M5PFPEA	INT STD	4.97	267.989 > 223.081	63332		10.203		na	102.0
6	PFBS	375-73-5	5.64	298.926 > 79.923	566		0.378	1.96	NO	85.5
7	M3PFBS	INT STD	5.64	301.989 > 80.254	10059		8.343		na	83.4
8	4:2FTS	757124-72-4	6.81	326.926 > 306.957	129		0.429		YES	91.8
9	M2-4:2FTS	INT STD	6.82	329.117 > 309.079	2891		4.001		na	40.0
10	PFHxA	307-24-4	6.89	312.989 > 269.028	4292		0.552	17.27	NO	110.3
11	M5PFHxA	INT STD	6.89	317.989 > 273.045	78700		8.844		na	88.4
12	PFPeS	2706-91-4	7.22	348.926 > 80.251	460		0.392	2.10	NO	83.3
13	PFHpA	375-85-9	8.18	362.926 > 319.014	4601		0.454	5.65	NO	90.7
14	M4PFHpA	INT STD	8.18	366.926 > 321.979	101748		8.974		na	89.7
15	br-PFHxS	355-46-4	8.11	398.926 > 80.295	36	M5	0.060		YES	70.2
16	L-PFHxS	355-46-4	8.34	398.926 > 80.295	238		0.267	1.19	NO	72.1
17	PFHxS	355-46-4		398.926 > 80.295	274		0.326		na	
18	M3PFHxS	INT STD	8.35	401.926 > 80.317	6590		8.819		na	88.2
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1	9.14	412.989 > 368.9	4422		0.458	10.41	NO	91.6
21	M2PFOA	INT STD	9.14	415.032 > 369.968	105557		11.577		na	115.8
22	PFOA	335-67-1		412.989 > 368.9	4422		0.458		na	
23	M8PFOA	INT STD	9.14	420.989 > 375.979	97313		9.279		na	92.8
24	6:2FTS	27619-97-2	9.09	426.989 > 406.921	47	M2	0.254		YES	53.6
25	M2-6:2FTS	INT STD	9.10	428.989 > 408.917	2285		3.510		na	35.1
26	PFHpS	375-92-8	9.23	448.926 > 80.257	211		0.308	0.94	NO	64.8
27	PFNA	375-95-1	9.90	462.989 > 418.931	3874		0.458	4.51	NO	91.6
28	M9PFNA	INT STD	9.89	472.053 > 426.947	93245		9.601		na	96.0
29	br-PFOS	1763-23-1	9.76	498.989 > 80.294	93	M5	0.090	0.43	NO	89.9
30	L-PFOS	1763-23-1	9.95	498.989 > 80.294	192	M2	0.195		YES	53.4
31	PFOS	1763-23-1		498.989 > 80.294	285		0.285		na	
32	M4PFOS	INT STD	9.95	503.032 > 80.306	9058		12.180		na	121.8
33	M8PFOS	INT STD	9.95	507.053 > 80.294	9556		9.795		na	98.0
34	PFDA	335-76-2	10.53	513.053 > 468.906	3734		0.471	6.32	NO	94.2
35	M2PFDA	INT STD	10.53	515.053 > 469.934	86359		12.074		na	120.7
36	M6PFDA	INT STD	10.52	519.053 > 473.931	87663		9.079		na	90.8
37	8:2FTS	39108-34-4	10.51	526.926 > 506.818	42		0.292		na	60.9
38	M2-8:2FTS	INT STD	10.52	529.053 > 508.945	1308		3.661		na	36.6
39	PFNS	68259-12-1	10.55	548.989 > 80.249	473		0.498	1.78	YES	103.8

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463-1.qld
Last Altered: Thursday, August 22, 2019 10:11:46 Eastern Daylight Time
Printed: Thursday, August 22, 2019 10:12:11 Eastern Daylight Time

ID: WG1275463-1,537ILOW
Name: I8060
Date: 22-Aug-2019
Time: 09:43:11
Description: WG1275463,WG1274916,ICAL15922,537ILOW
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.90	573.096 > 418.987	6955		7.258		na	72.6
41	NMeFOSAA	2355-31-9	10.90	570.053 > 418.917	255		0.361	1.76	NO	72.2
42	PFUnA	2058-94-8	11.07	562.989 > 518.903	3678		0.457	8.60	NO	91.4
43	M7-PFUDA	INT STD	11.06	570.053 > 524.923	78356		9.177		na	91.8
44	PFDS	335-77-3	11.08	598.926 > 80.314	319		0.454	0.97	YES	94.0
45	FOSA	754-91-6	10.93	497.989 > 78.245	1362		0.406		YES	81.3
46	M8FOSA	INT STD	10.93	506.053 > 78.286	29173		10.151		na	101.5
47	d5-NEtFOSAA	INT STD	11.19	589.117 > 418.929	6272		7.224		na	72.2
48	NEtFOSAA	2991-50-6	11.20	583.989 > 418.927	304		0.479	4.23	YES	95.8
49	PFDoA	307-55-1	11.54	612.989 > 568.967	3869		0.514	31.84	YES	102.8
50	MPFDOA	INT STD	11.54	614.989 > 569.92	78407		8.294		na	82.9
51	PFTrDA	72629-94-8	11.95	663.053 > 618.969	3982		0.564	16.51	NO	112.7
52	PFTA	376-06-7	12.31	713.053 > 668.976	3028		0.536	12.22	NO	107.1
53	M2PFTEDA	INT STD	12.31	715.053 > 669.945	64981		8.135		na	81.4

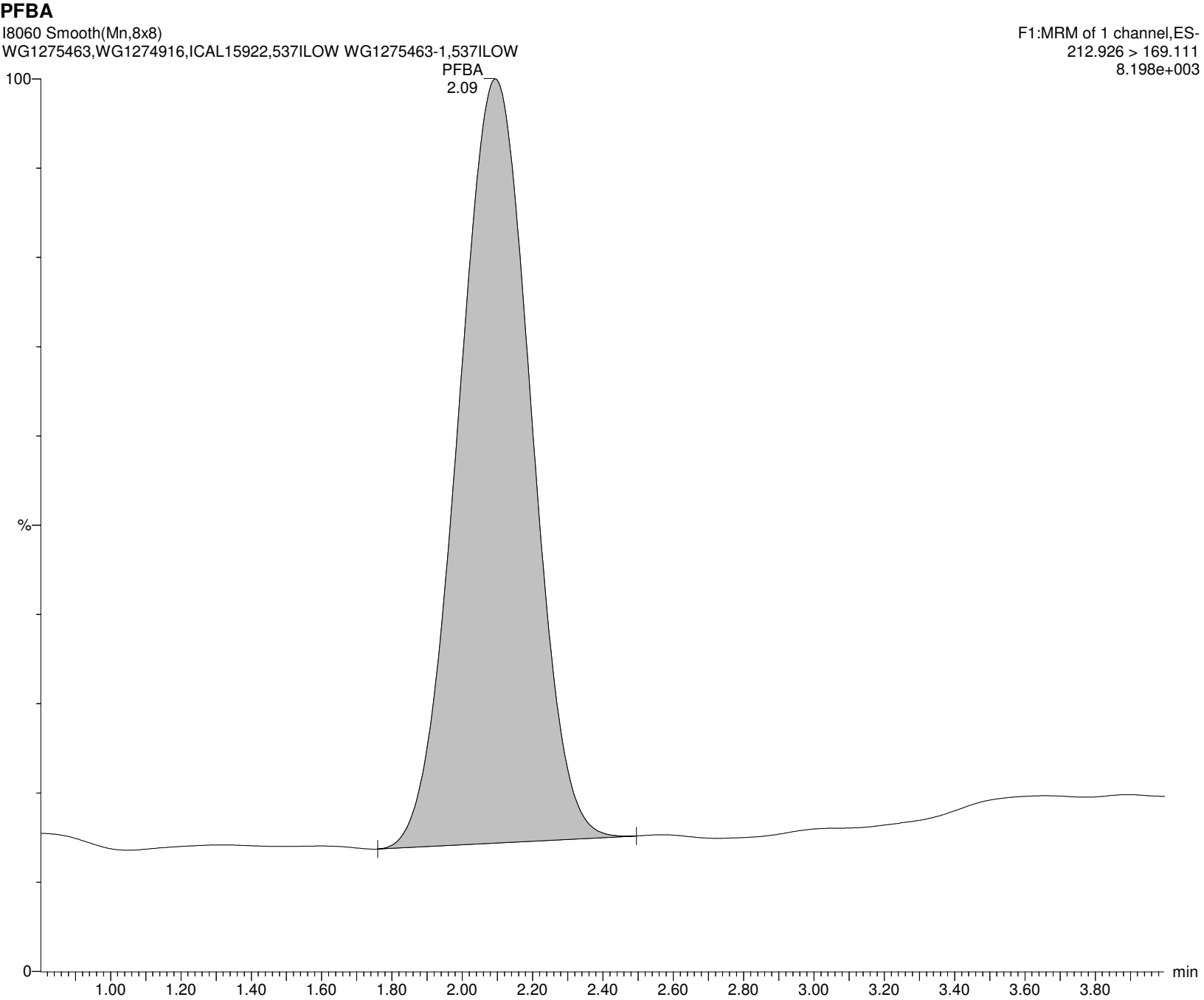
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, August 22, 2019 10:11:46 Eastern Daylight Time
Printed: Thursday, August 22, 2019 10:12:11 Eastern Daylight Time

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Date: 22-Aug-2019
Time: 09:43:11
Description: WG1275463,WG1274916,ICAL15922,537ILOW
User: LCMS02:JW
Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
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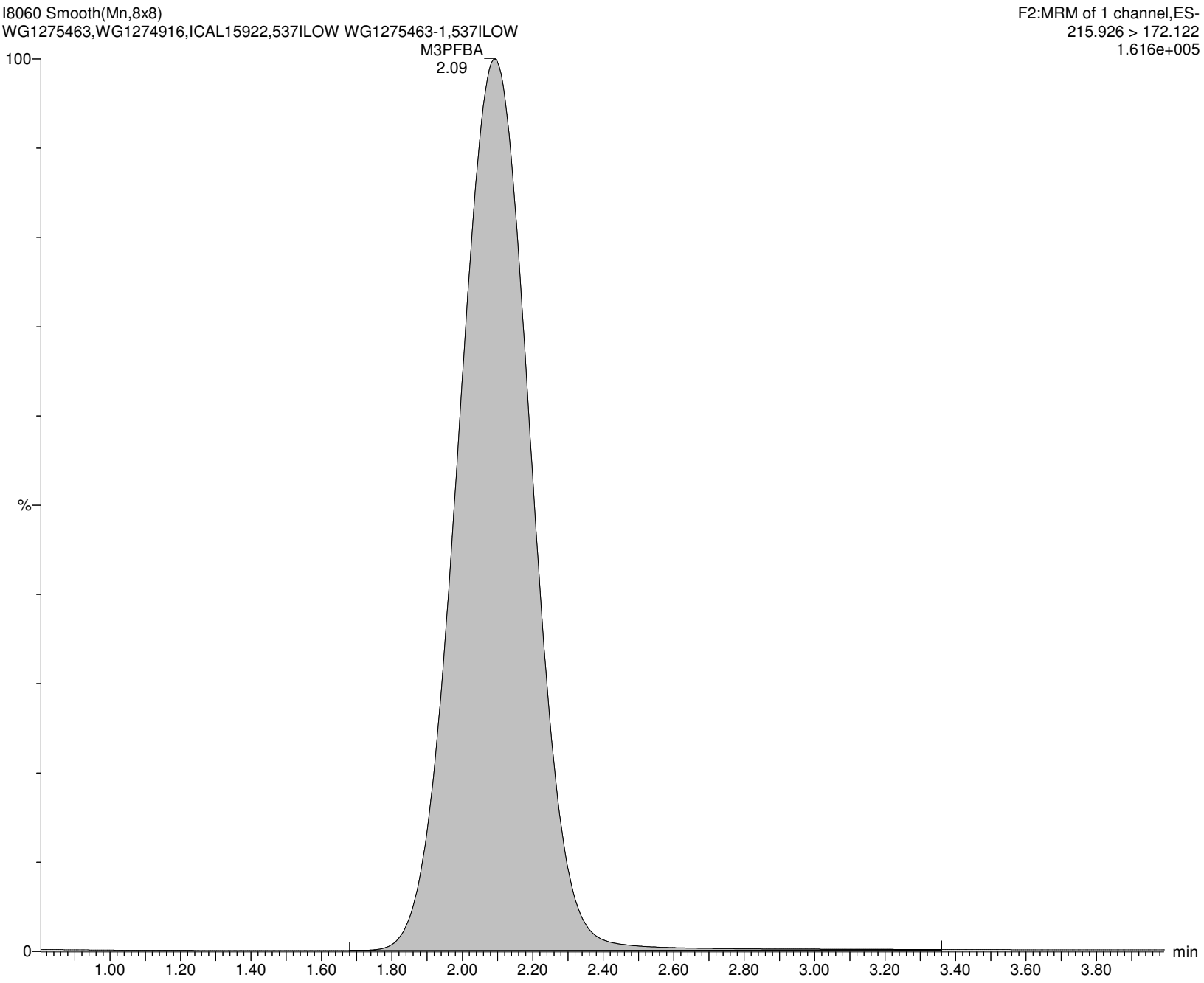


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Name: I8060
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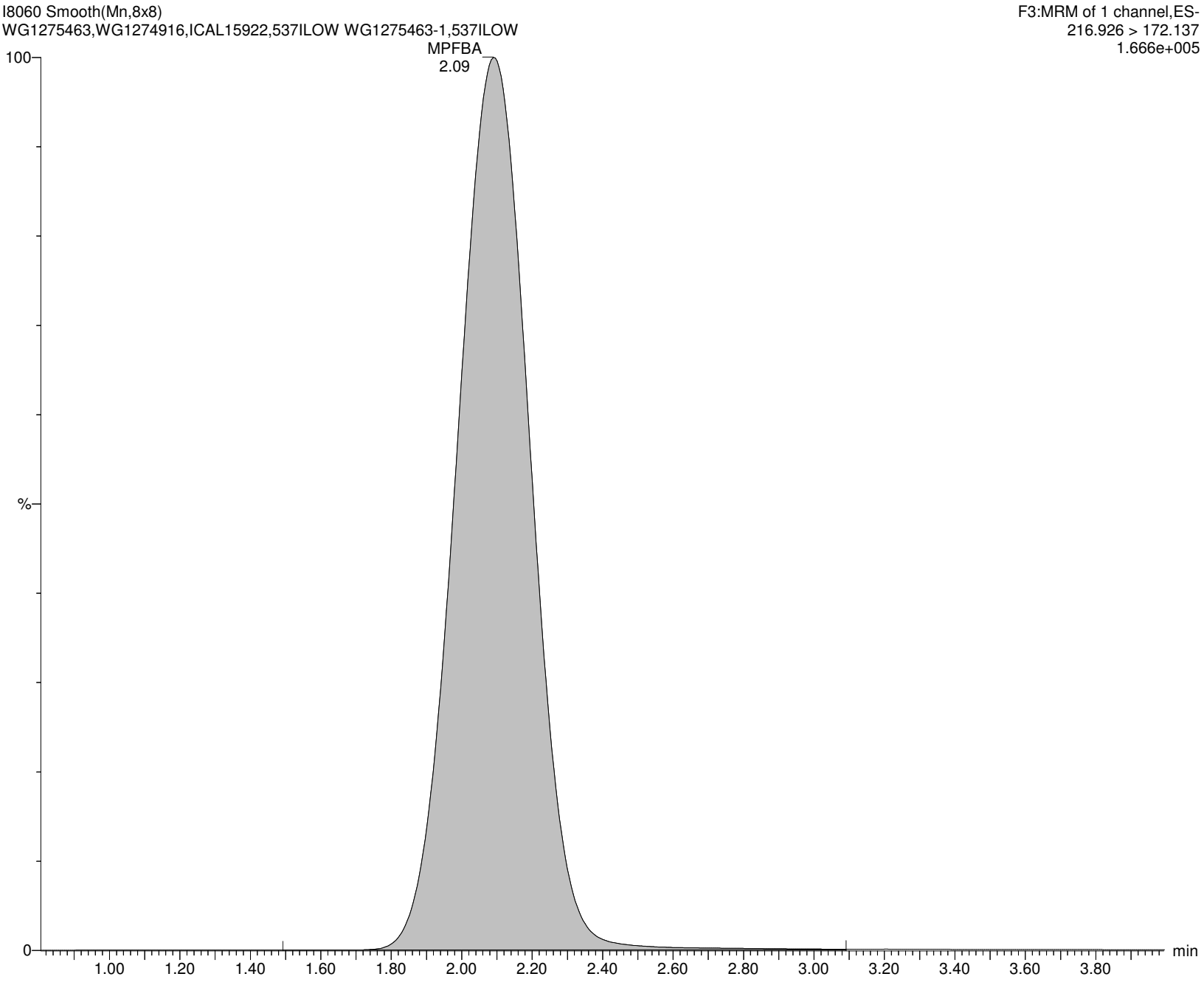


all concentration units in (ng/mL)

Alpha Analytical Inc.
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User: LCMS02:JW
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Instrument: XEVO-TQSmicro#QEB0050
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MPFBA

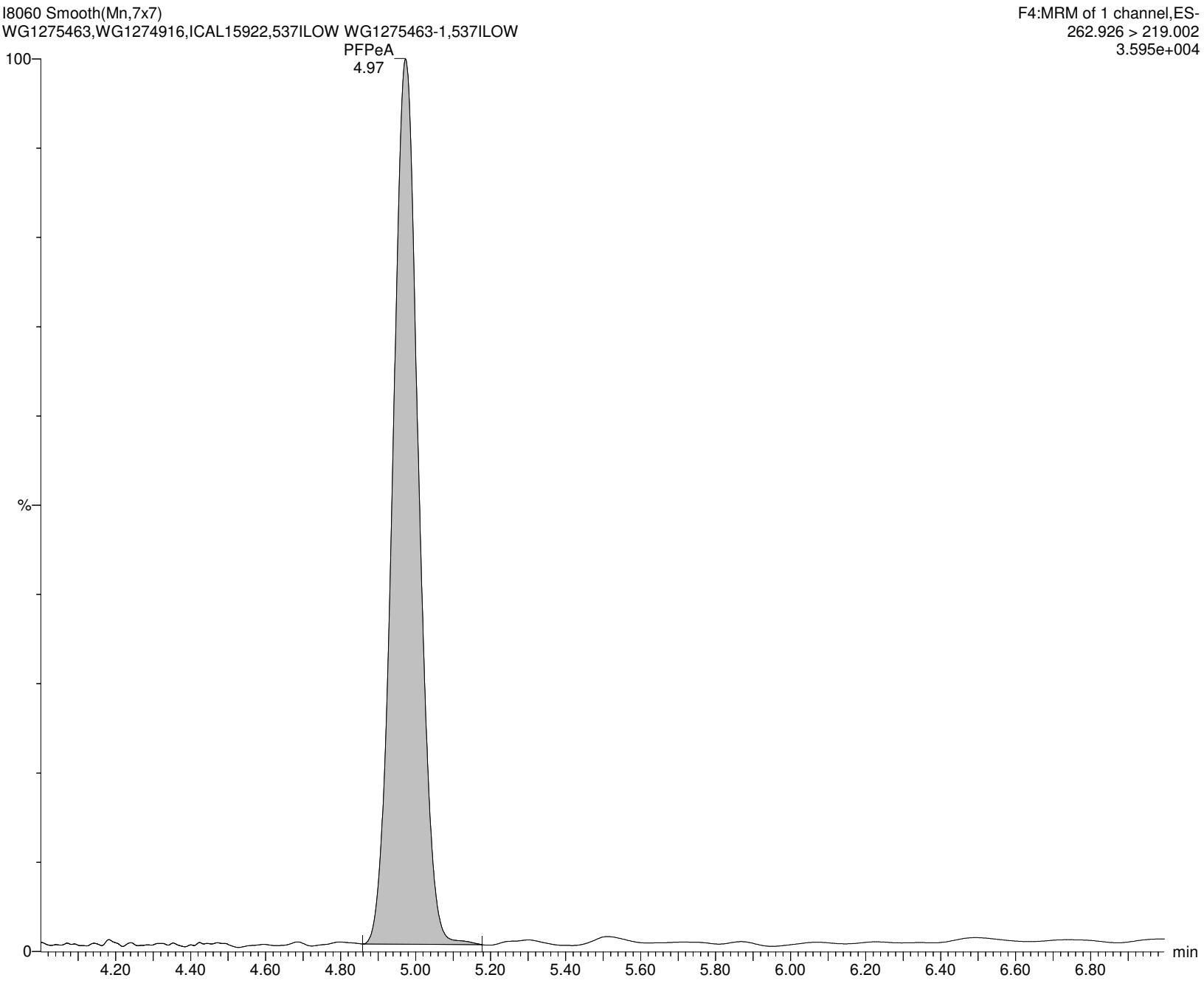


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, August 22, 2019 10:11:46 Eastern Daylight Time
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PFPeA

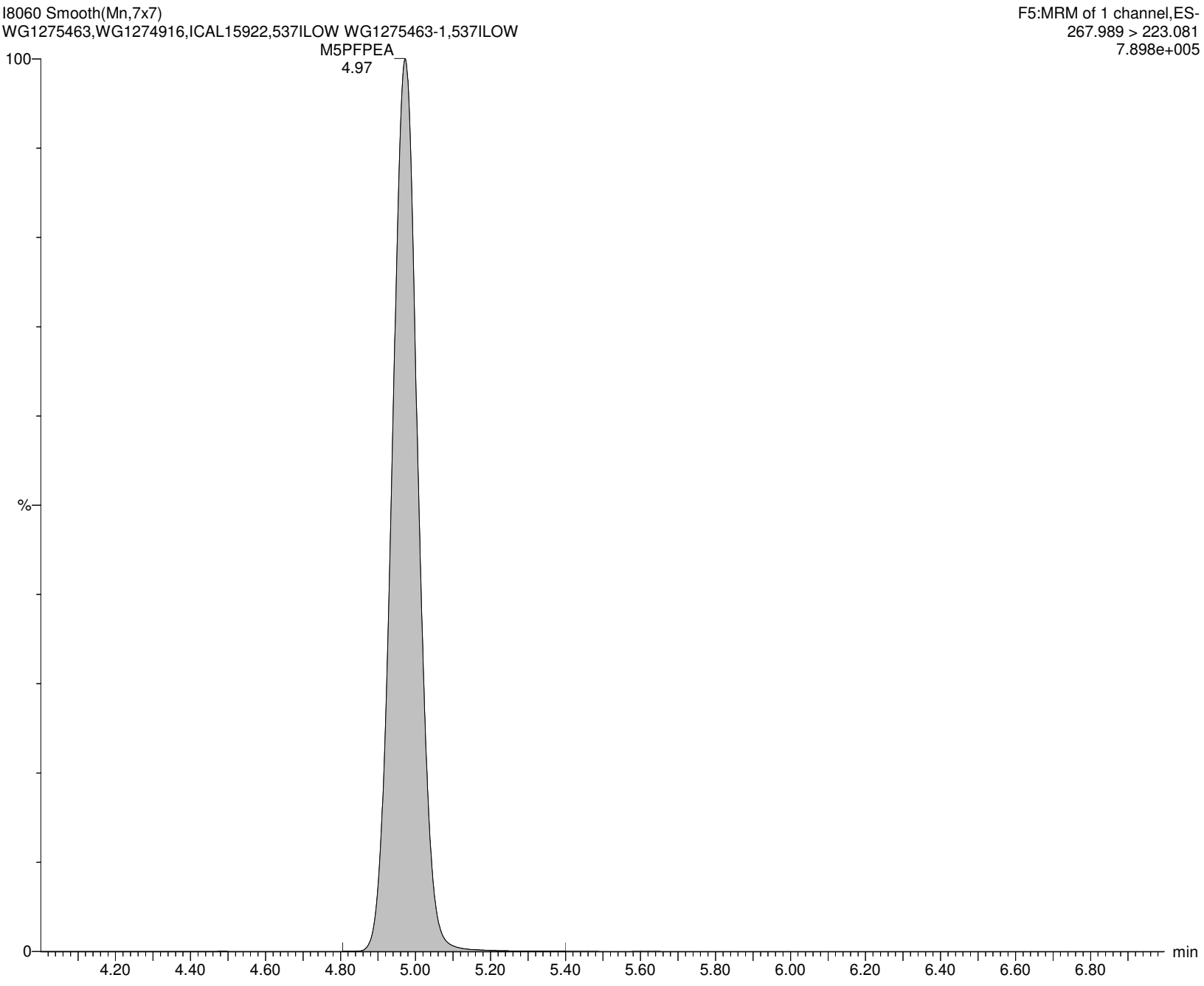


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, August 22, 2019 10:11:46 Eastern Daylight Time
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ID: WG1275463-1,537ILOW
Date: 22-Aug-2019
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User: LCMS02:JW
Vial: 1:A,2
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M5PFPEA

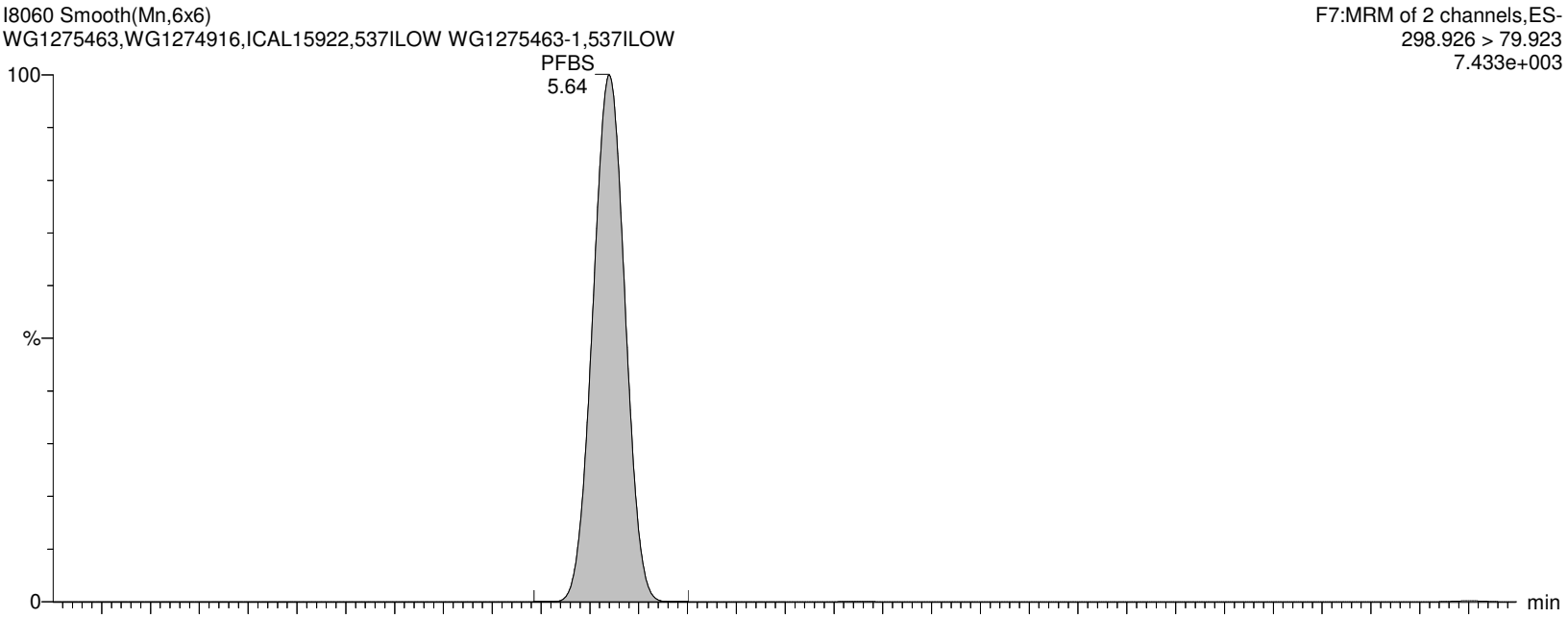


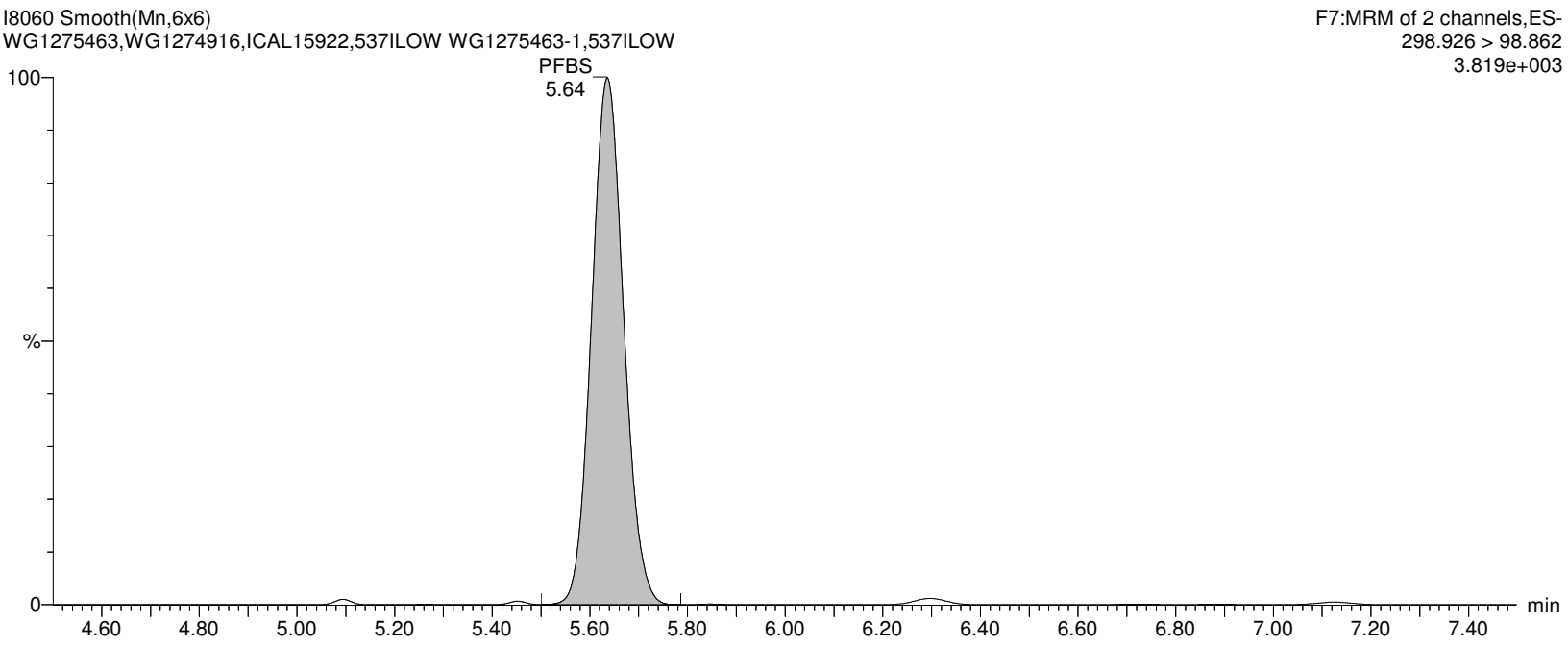
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Name: I8060
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PFBS



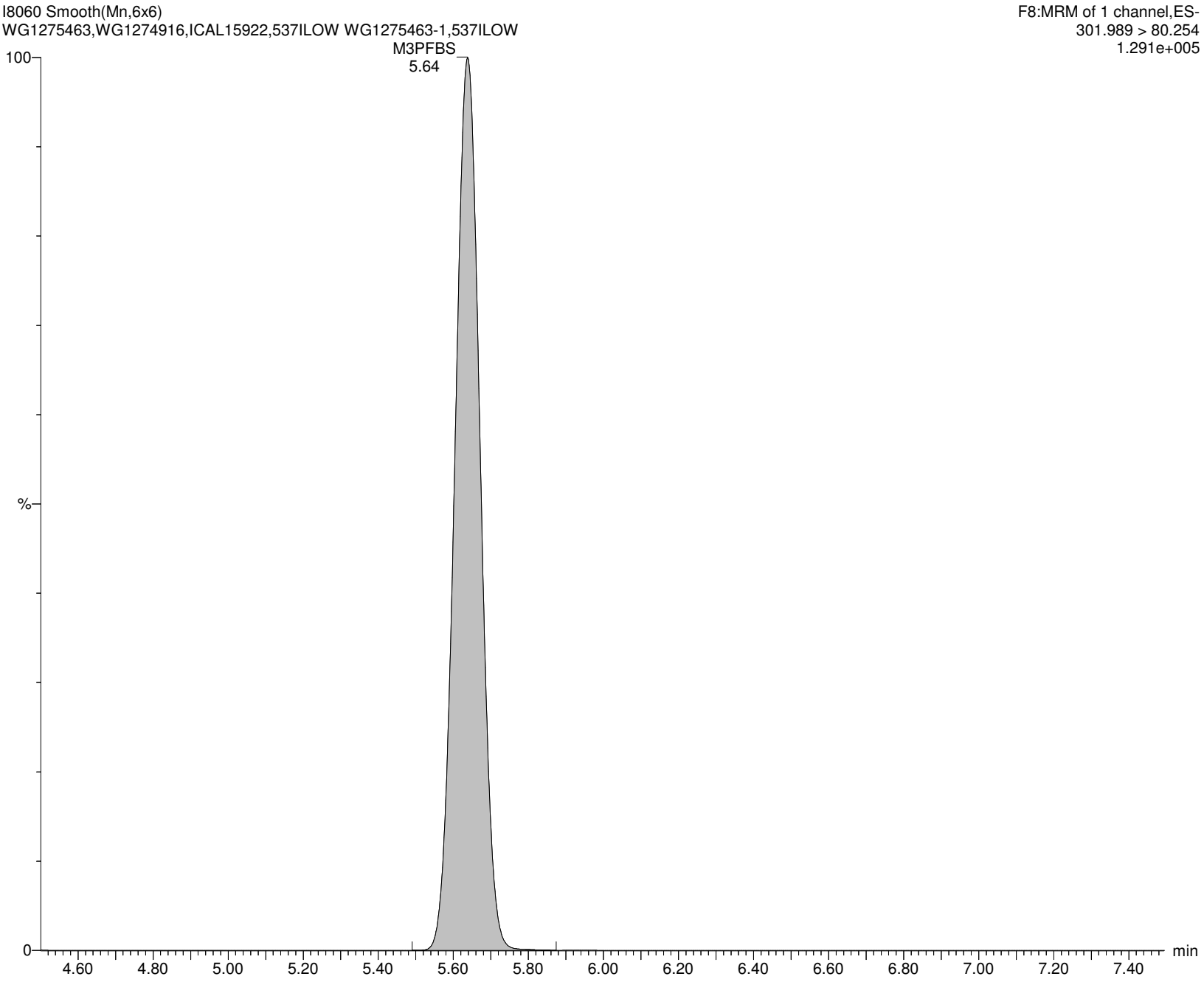


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, August 22, 2019 10:11:46 Eastern Daylight Time
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ID: WG1275463-1,537ILOW
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M3PFBS

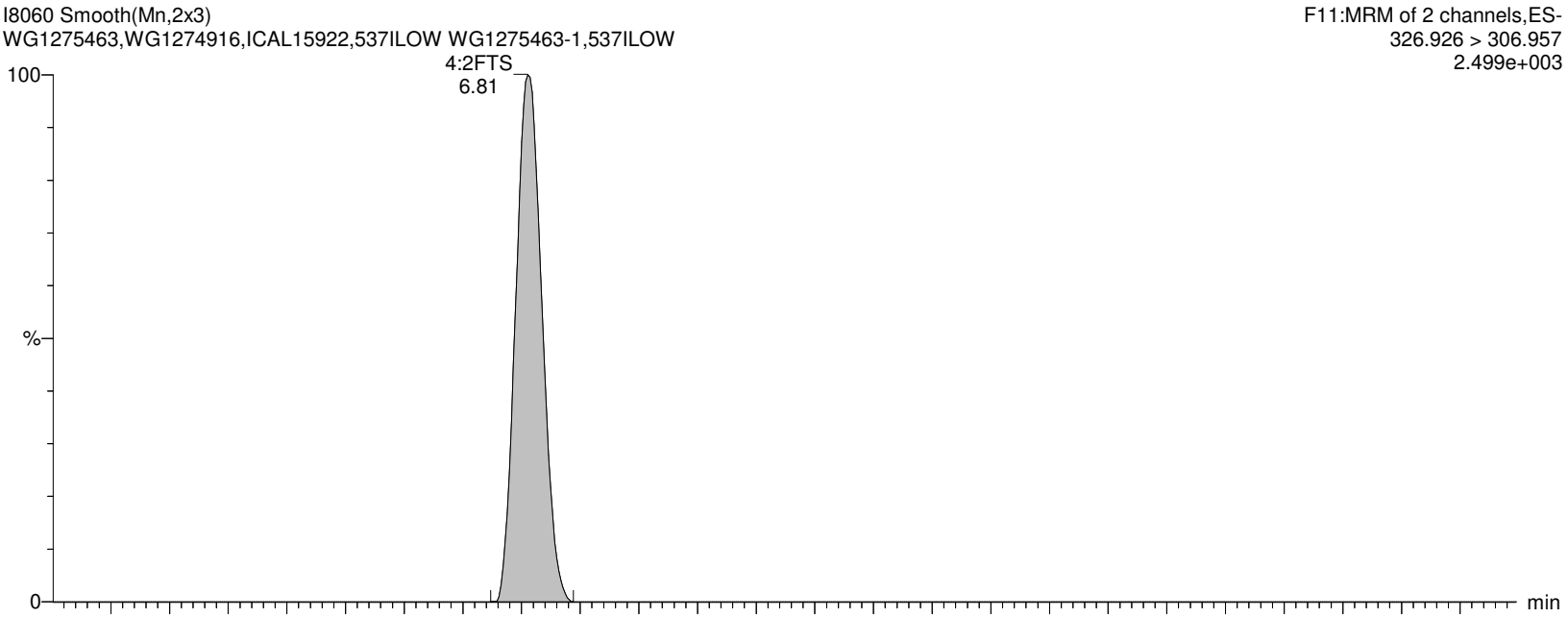


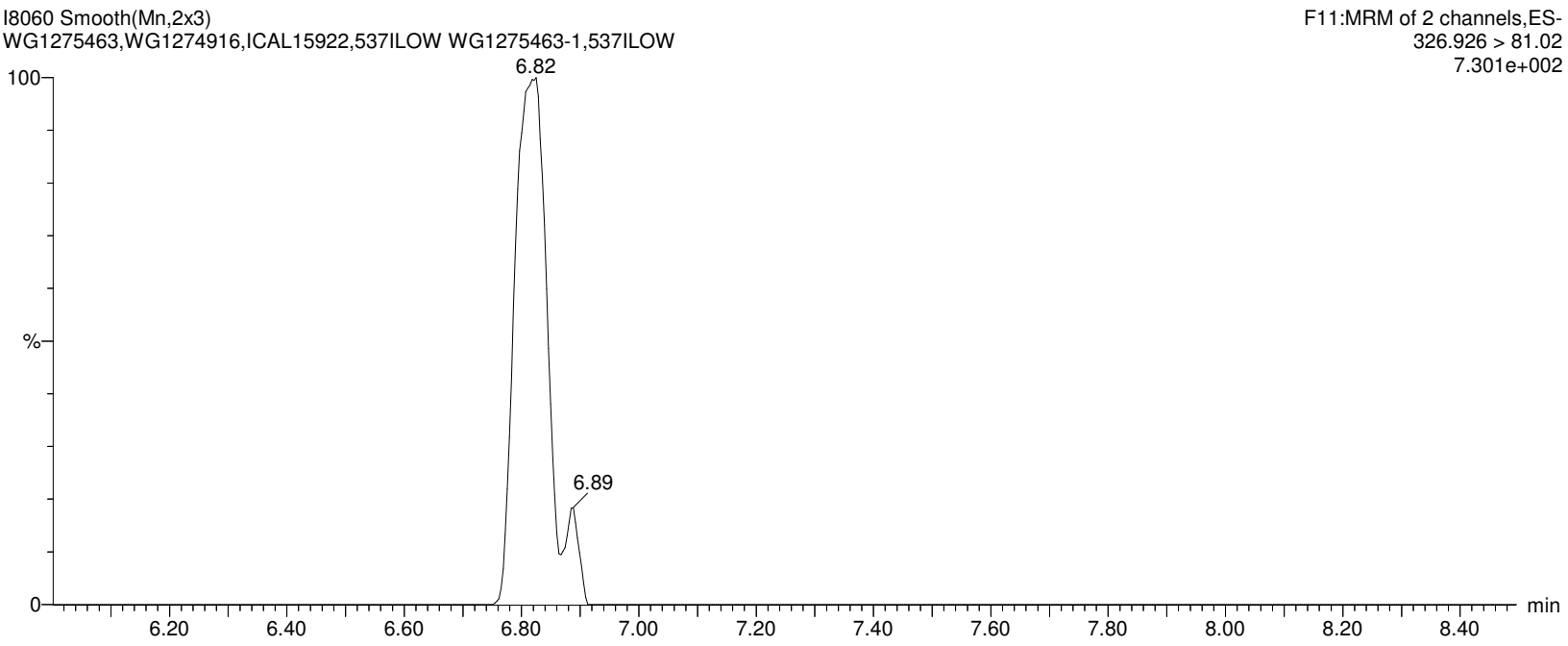
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463-1.qld
Last Altered: Thursday, August 22, 2019 10:11:46 Eastern Daylight Time
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4:2FTS



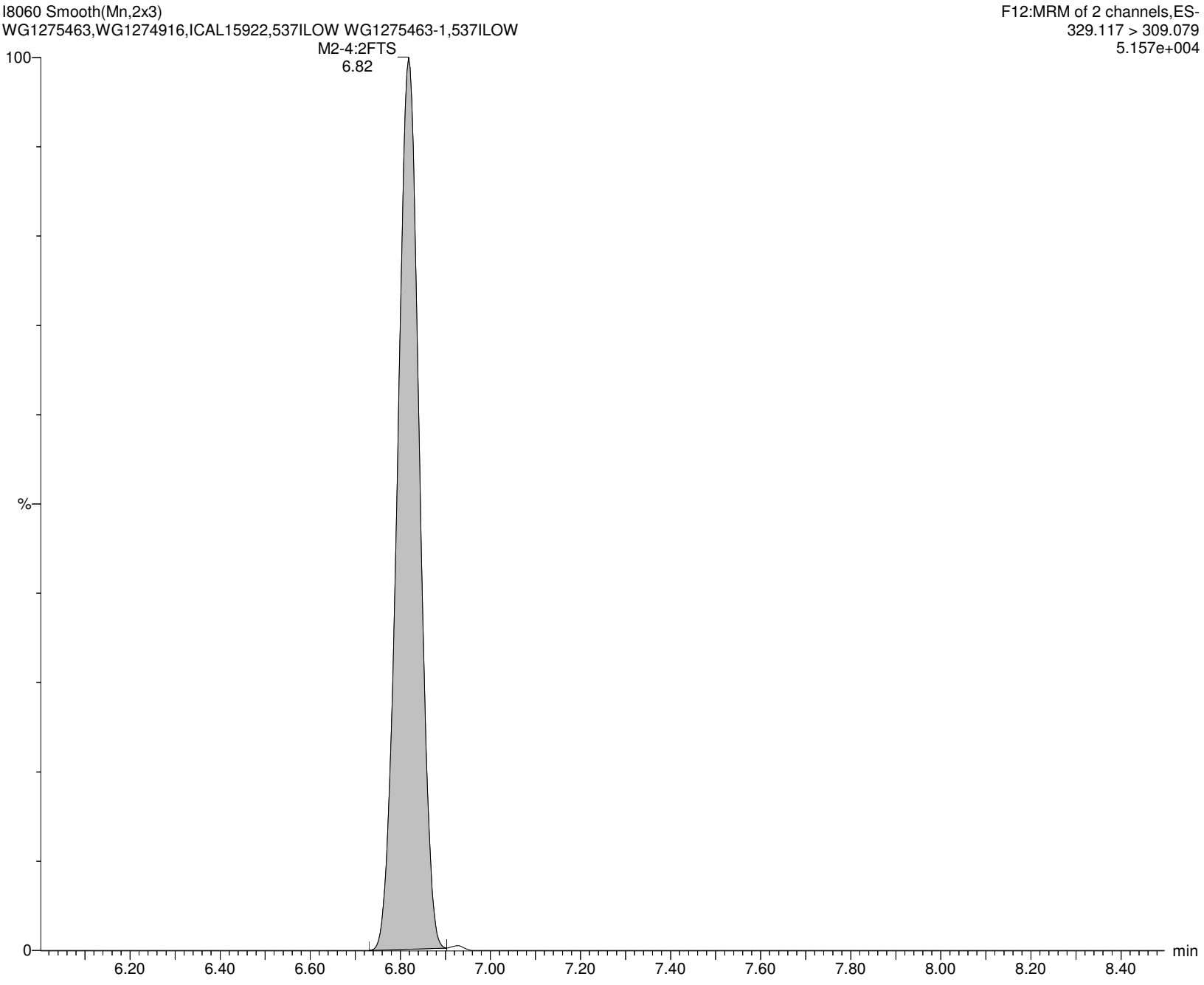


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463-1.qld
Last Altered: Thursday, August 22, 2019 10:11:46 Eastern Daylight Time
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M2-4:2FTS

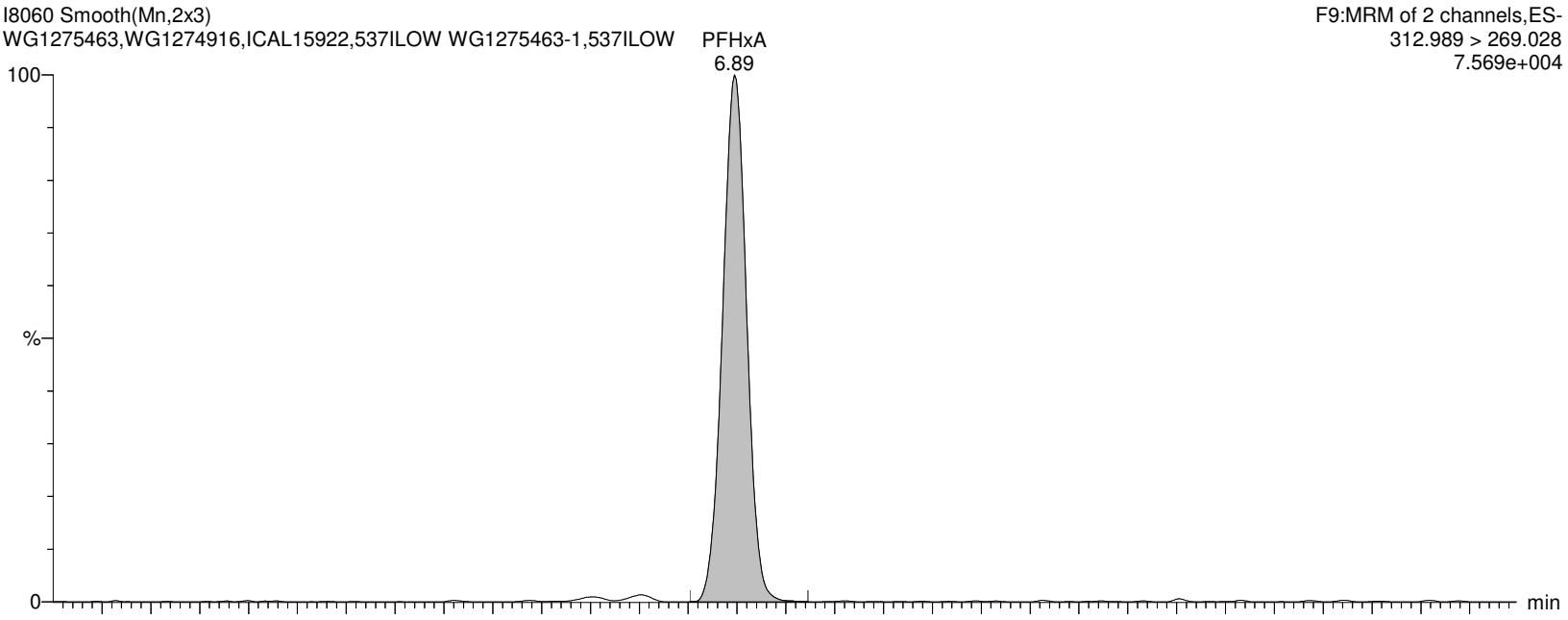


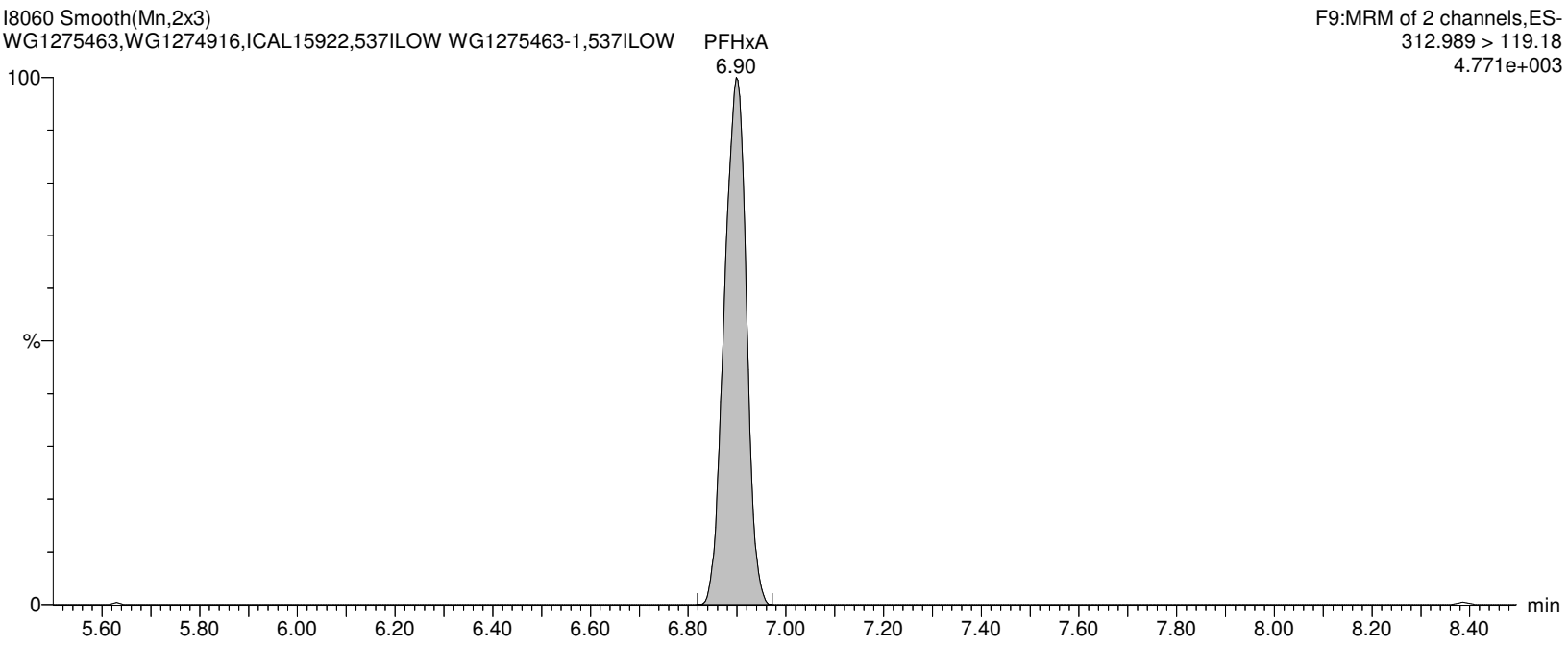
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, August 22, 2019 10:11:46 Eastern Daylight Time
Printed: Thursday, August 22, 2019 10:12:11 Eastern Daylight Time

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Date: 22-Aug-2019
Time: 09:43:11
Description: WG1275463,WG1274916,ICAL15922,537ILOW
User: LCMS02:JW
Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
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PFHxA



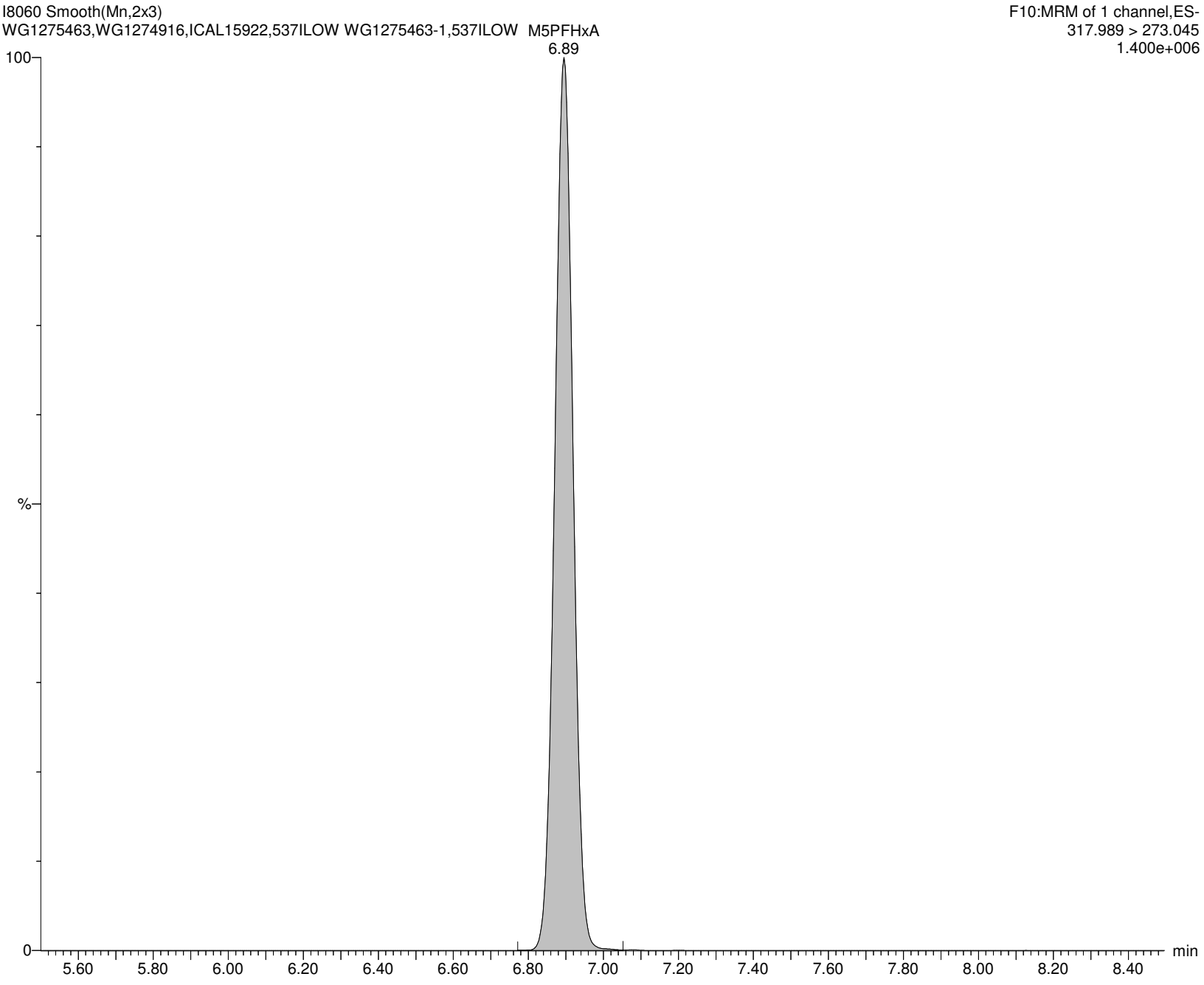


all concentration units in (ng/mL)

Alpha Analytical Inc.
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ID: WG1275463-1,537ILOW
Date: 22-Aug-2019
Time: 09:43:11
Description: WG1275463,WG1274916,ICAL15922,537ILOW
User: LCMS02:JW
Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEB0050
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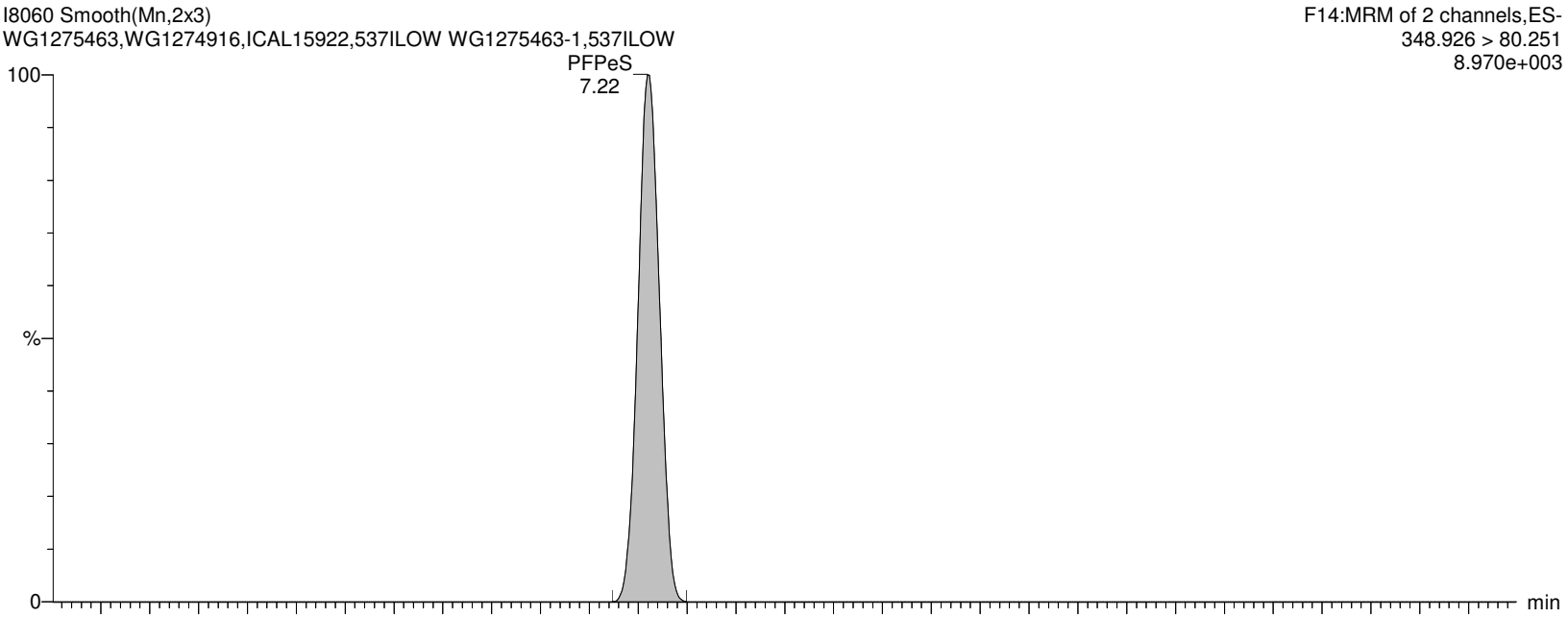


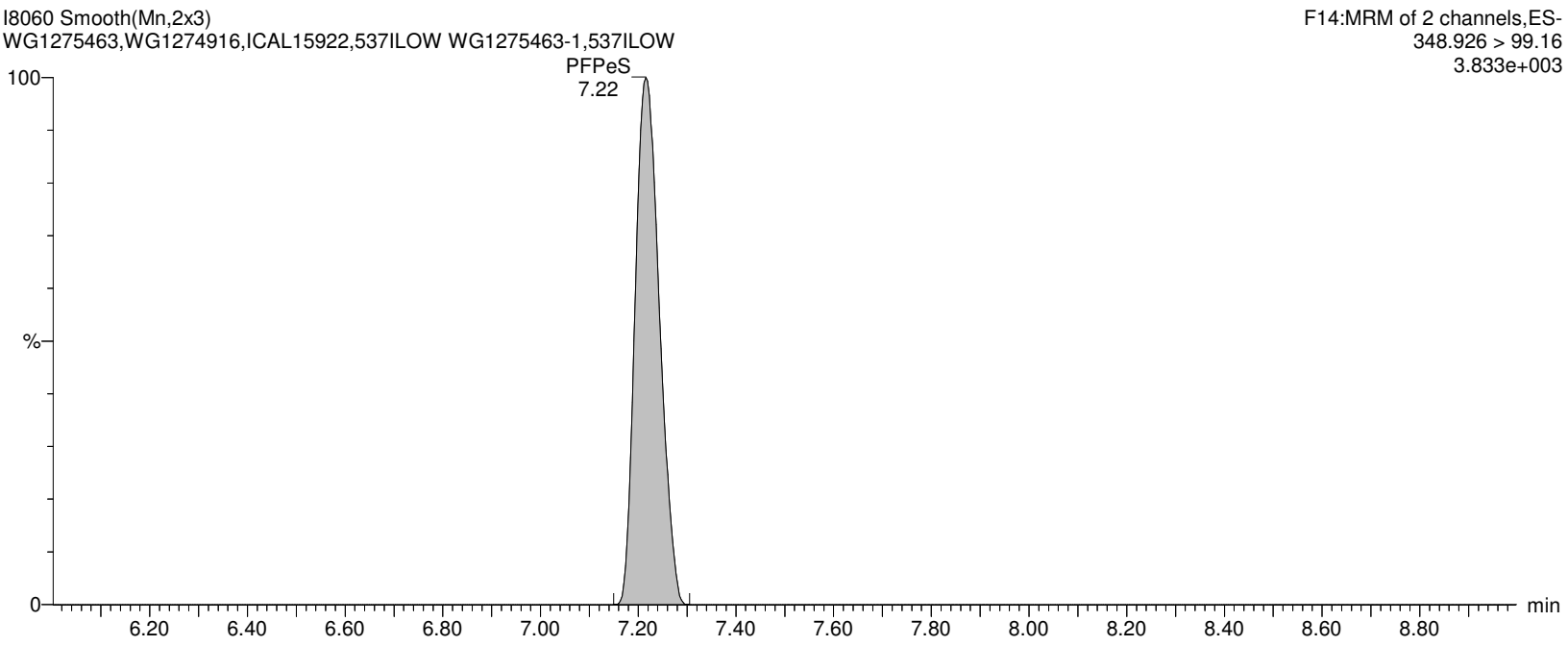
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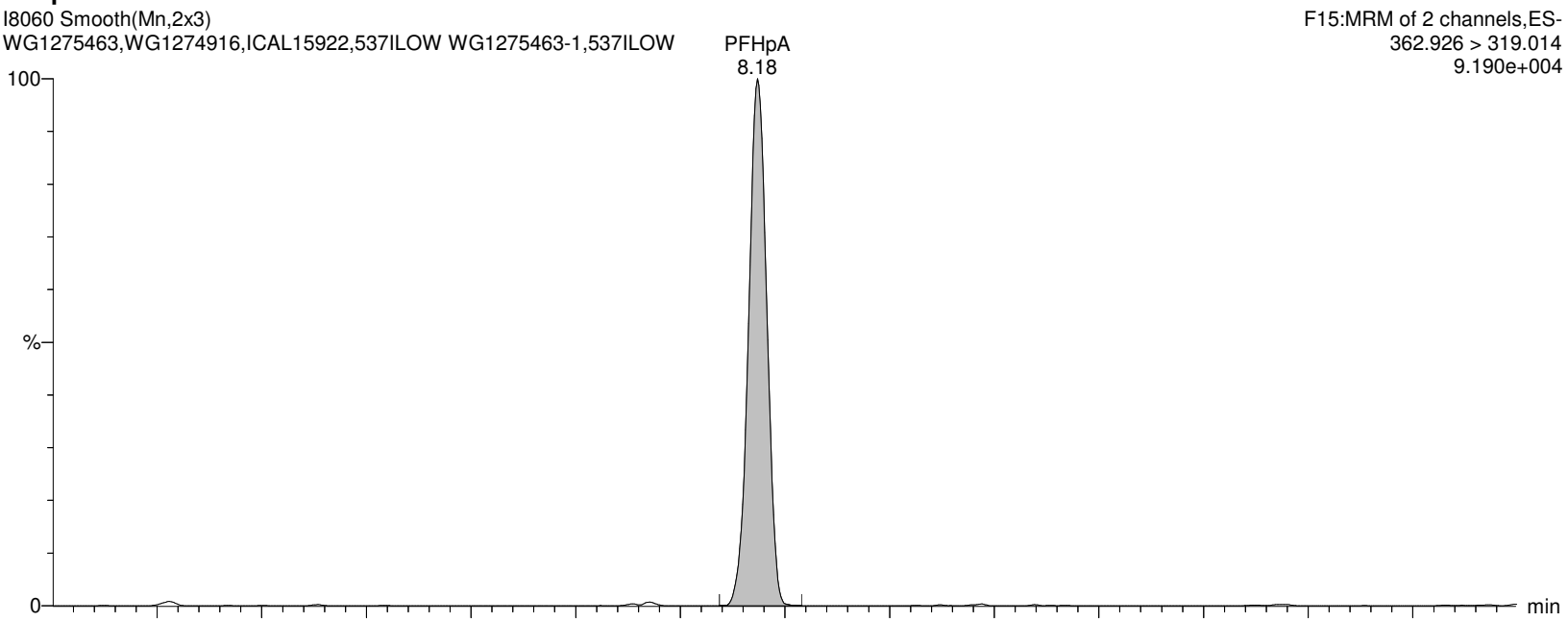


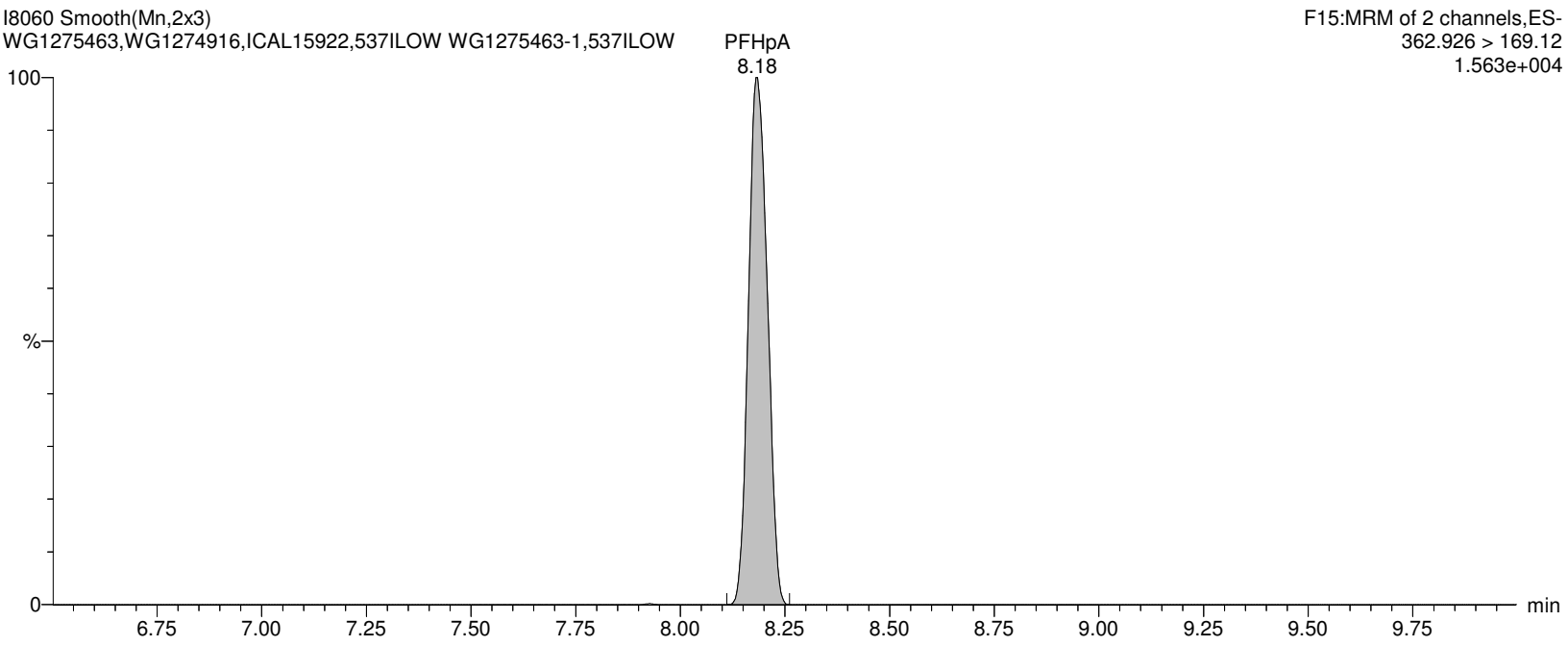
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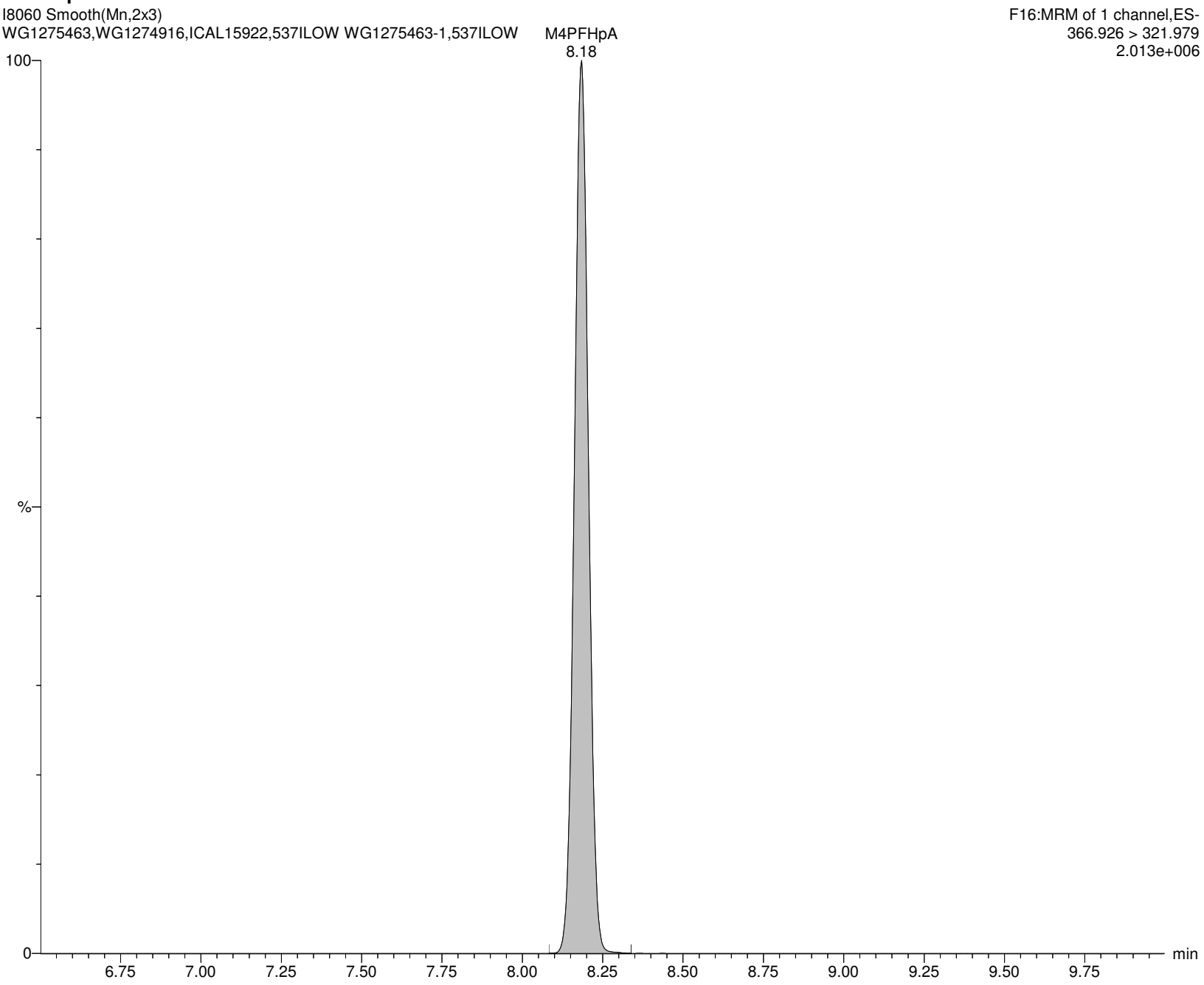


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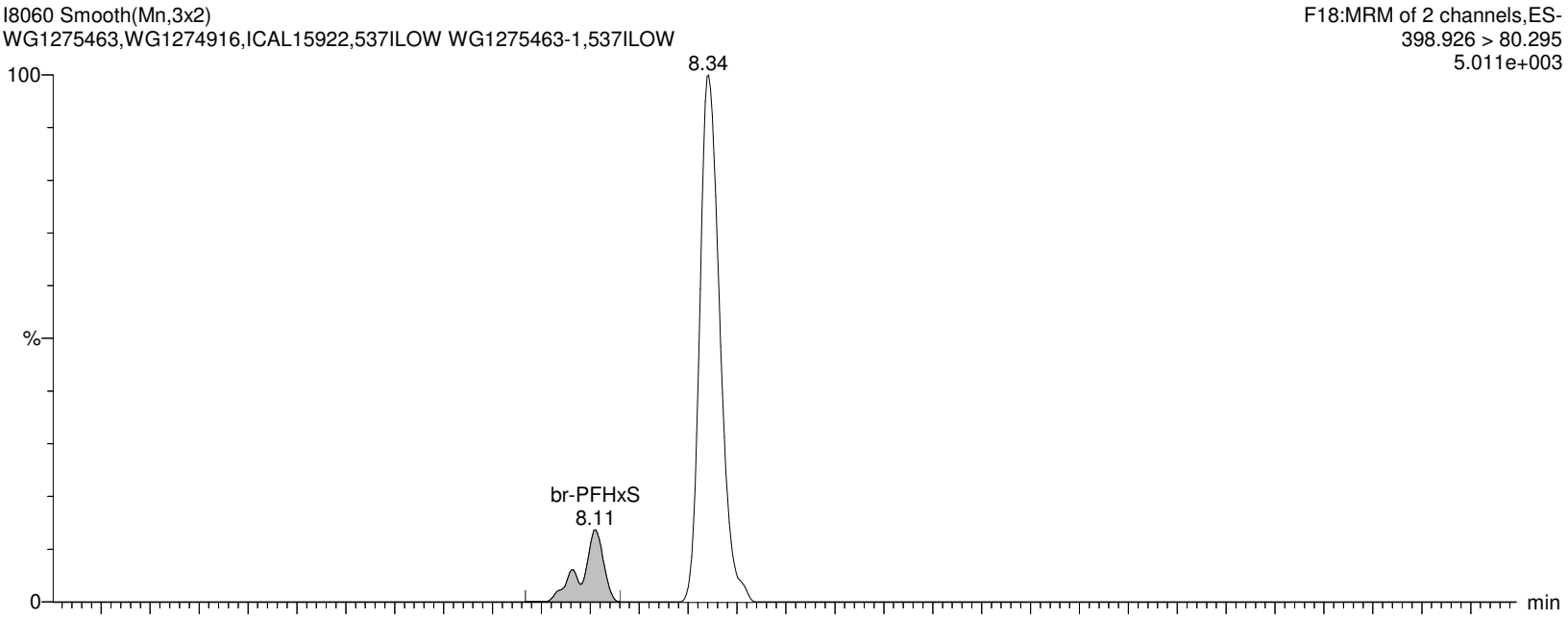


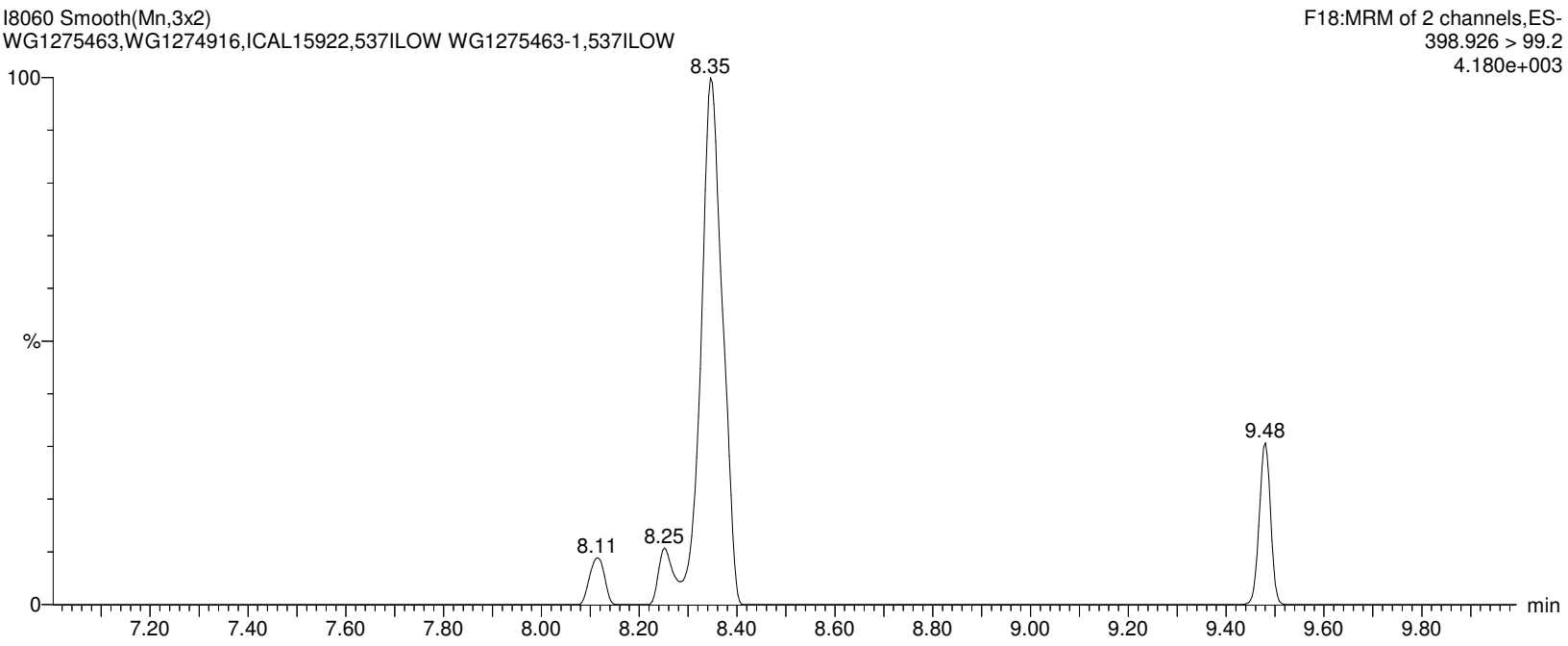
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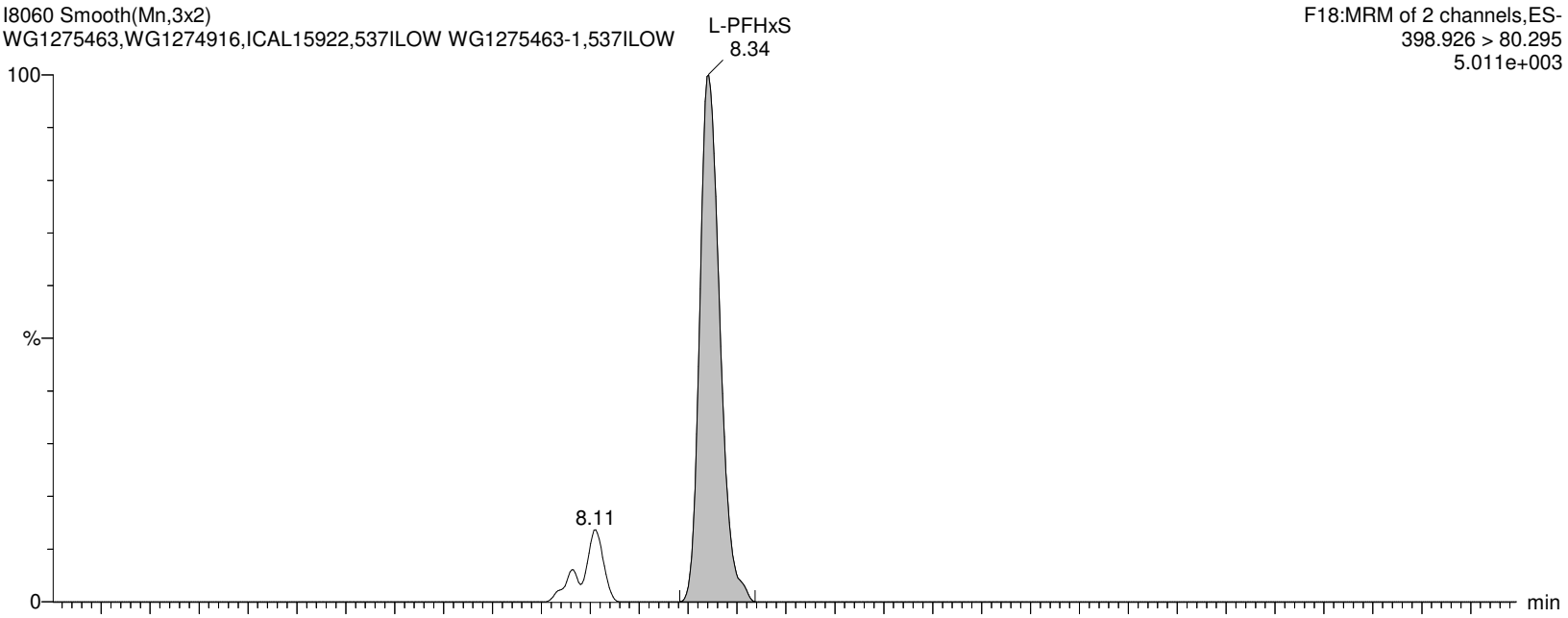


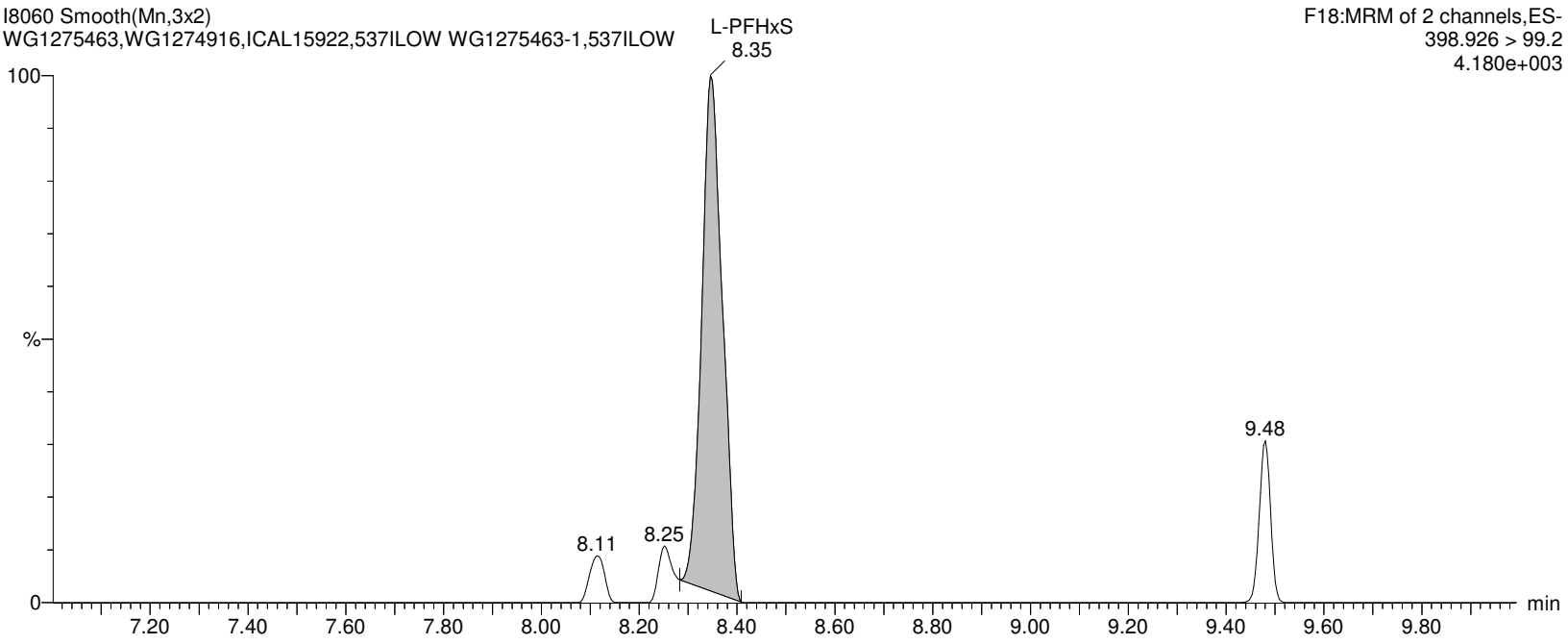
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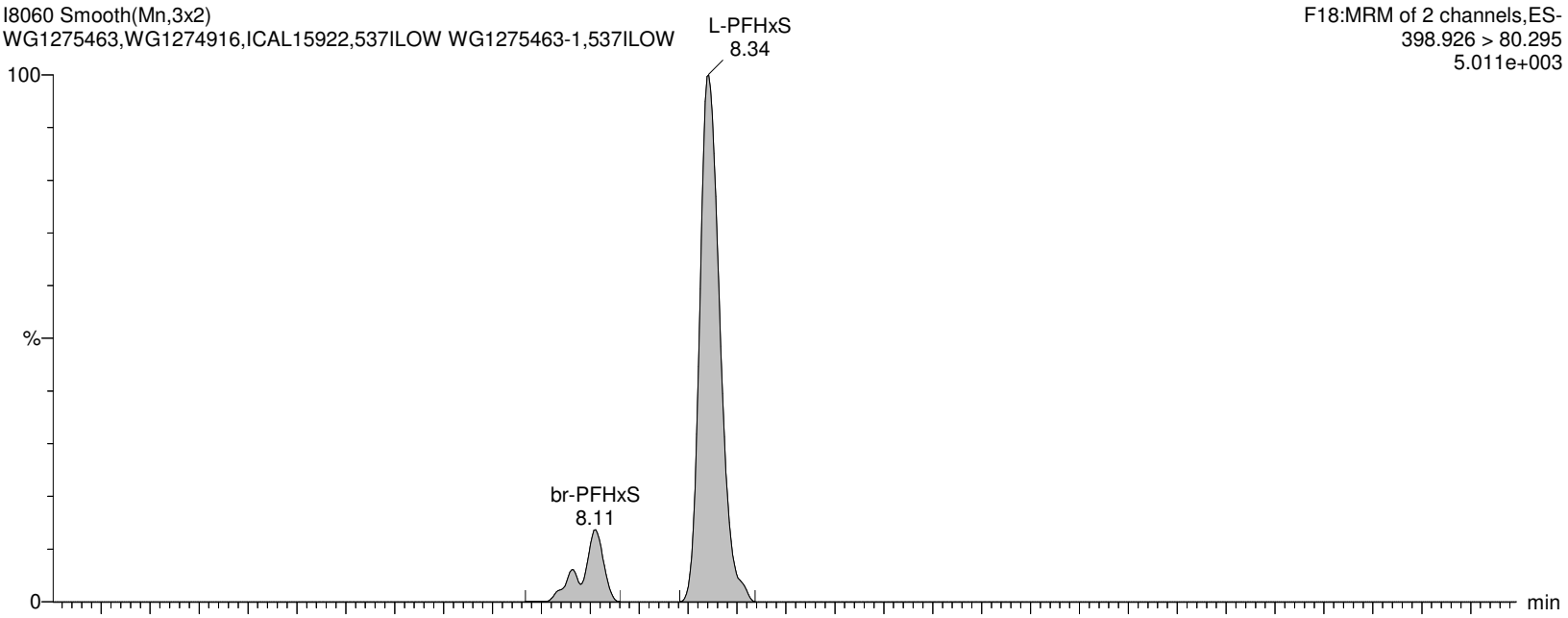


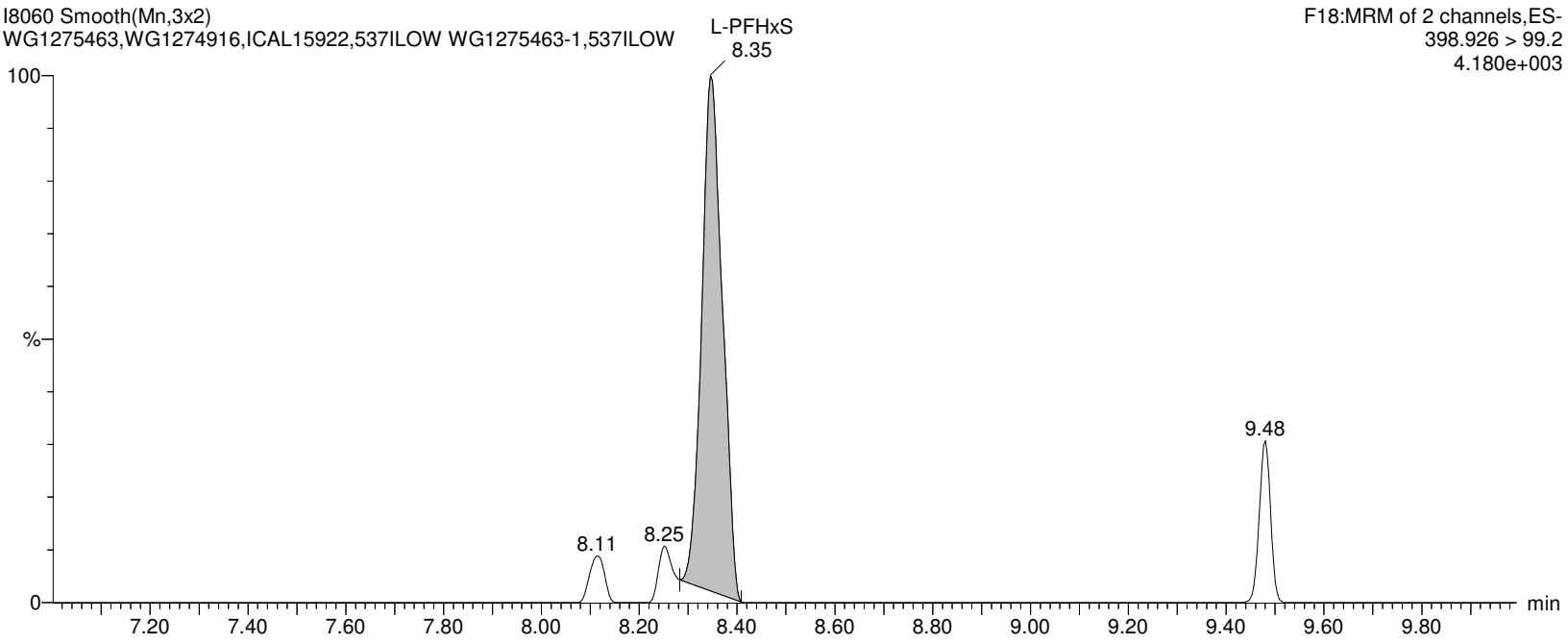
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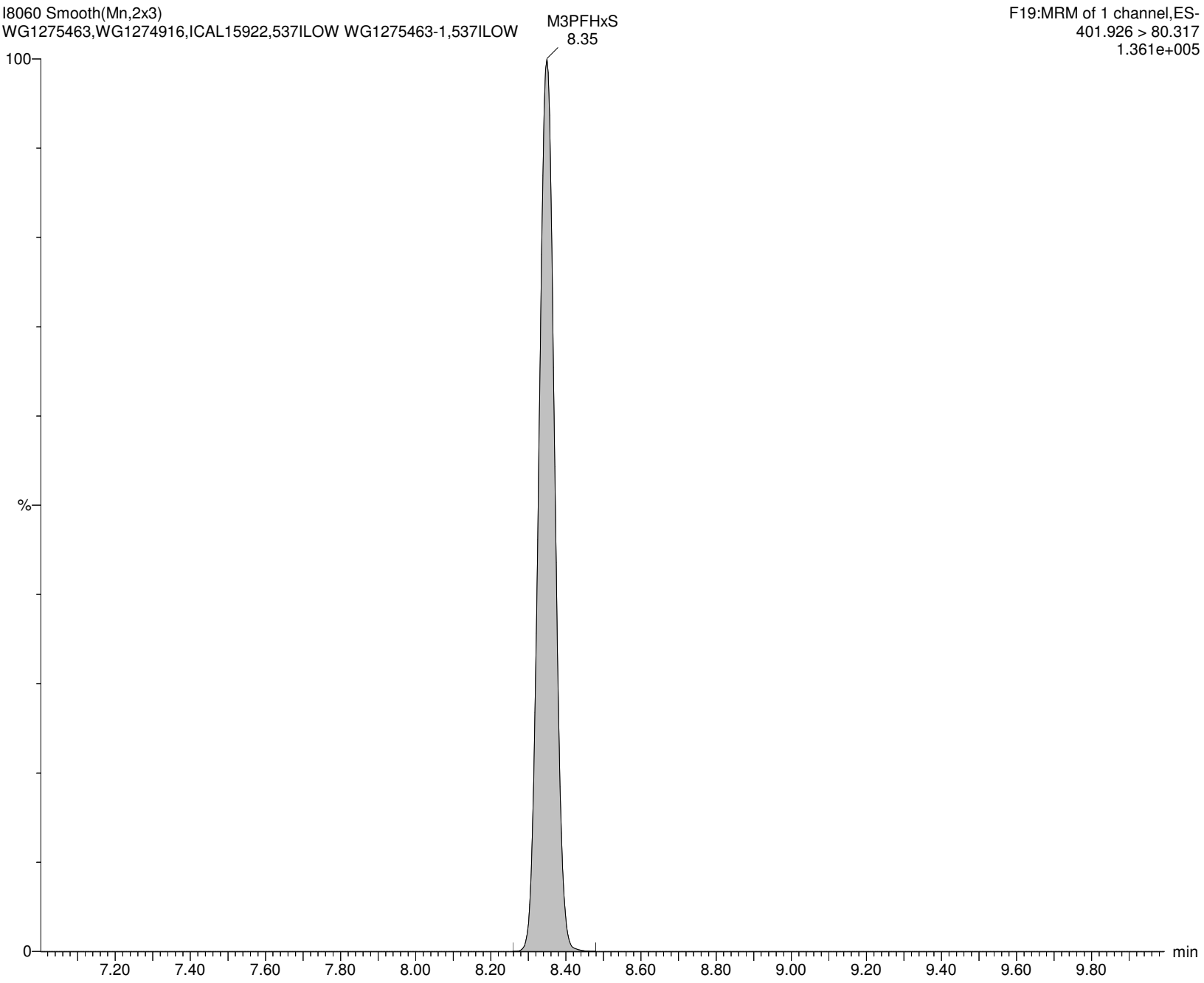


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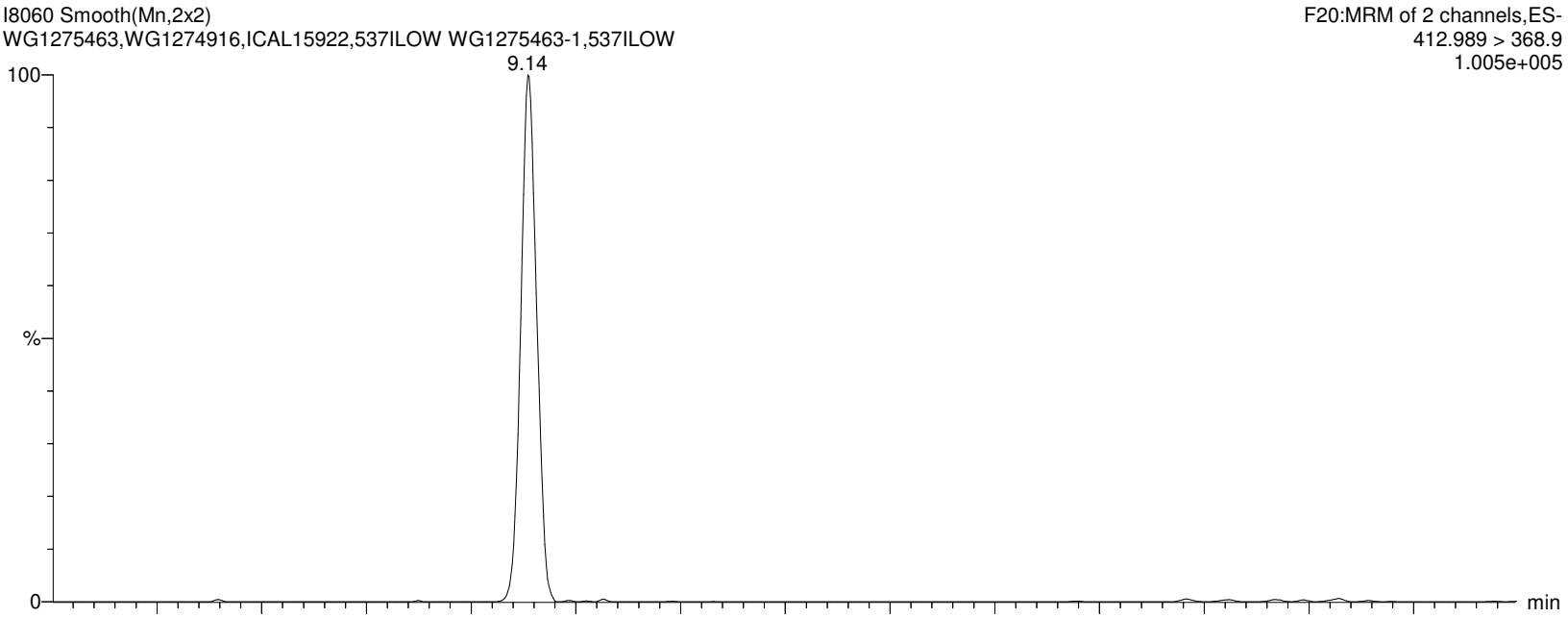


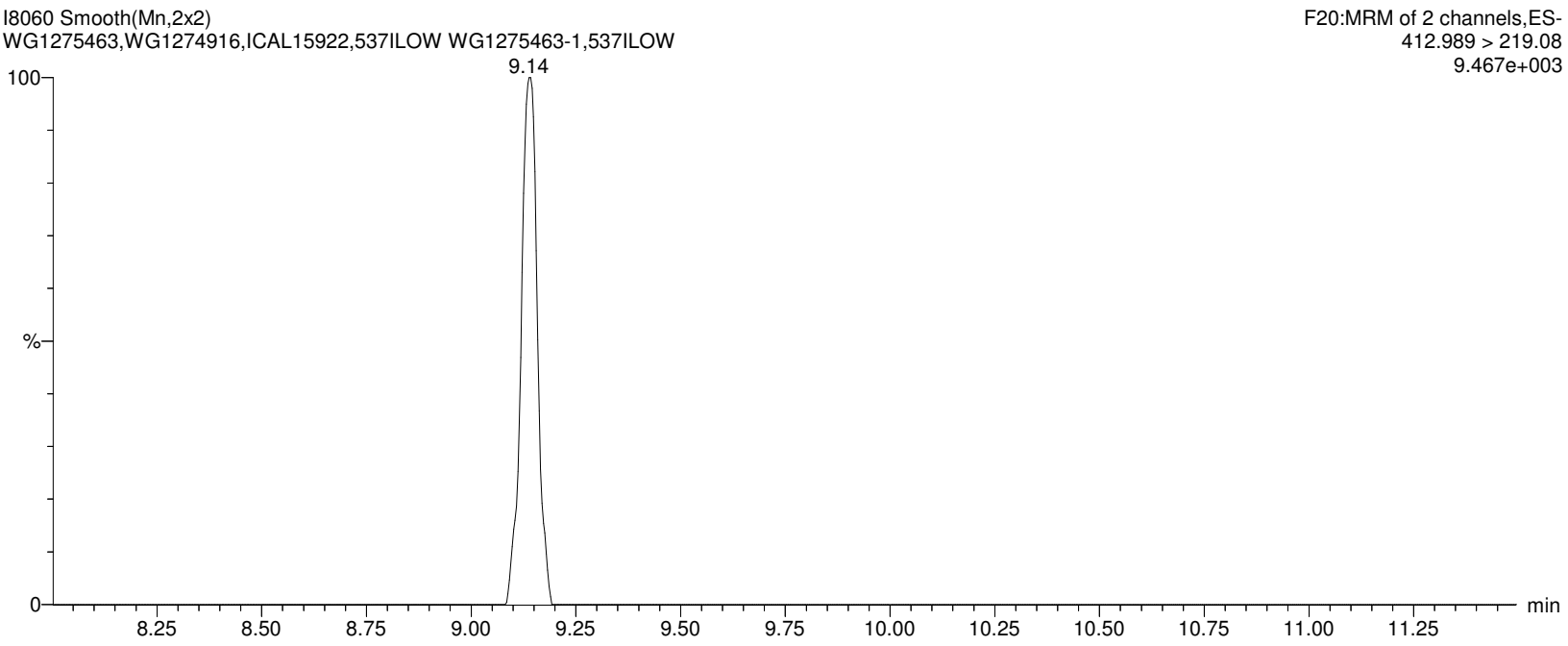
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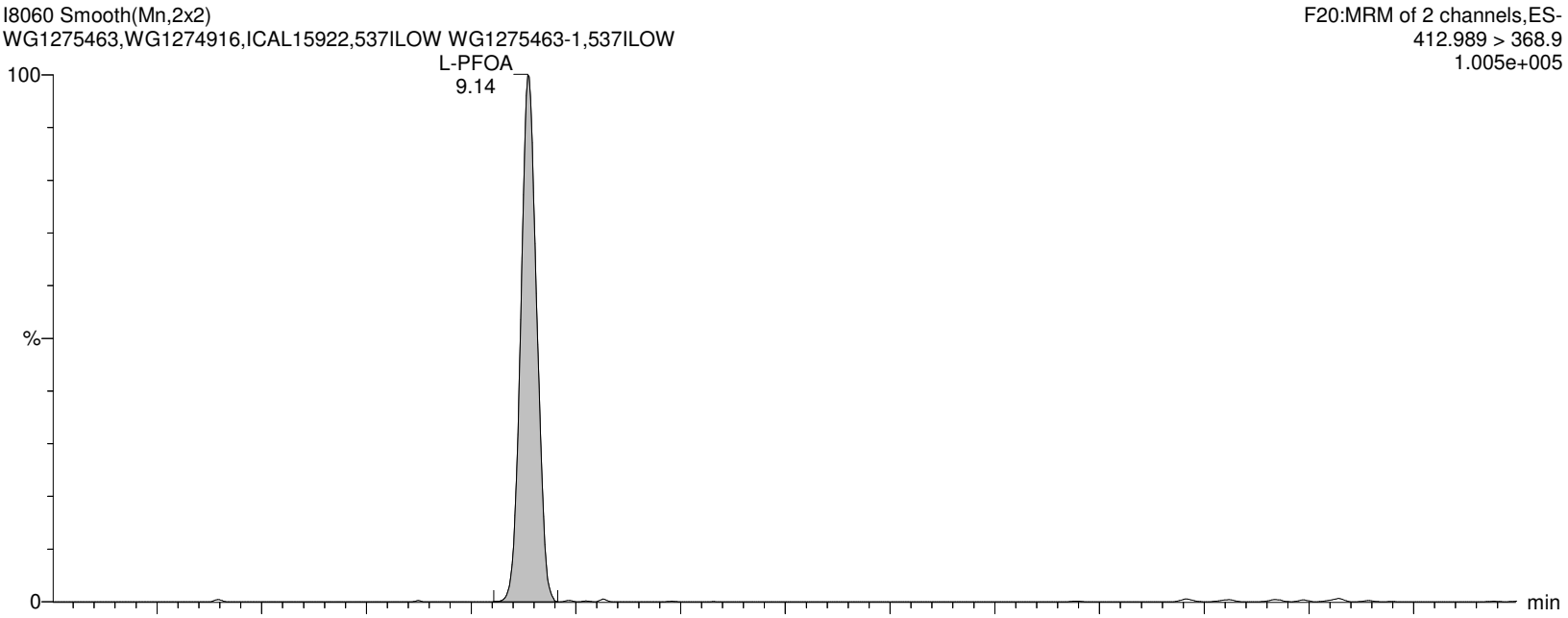


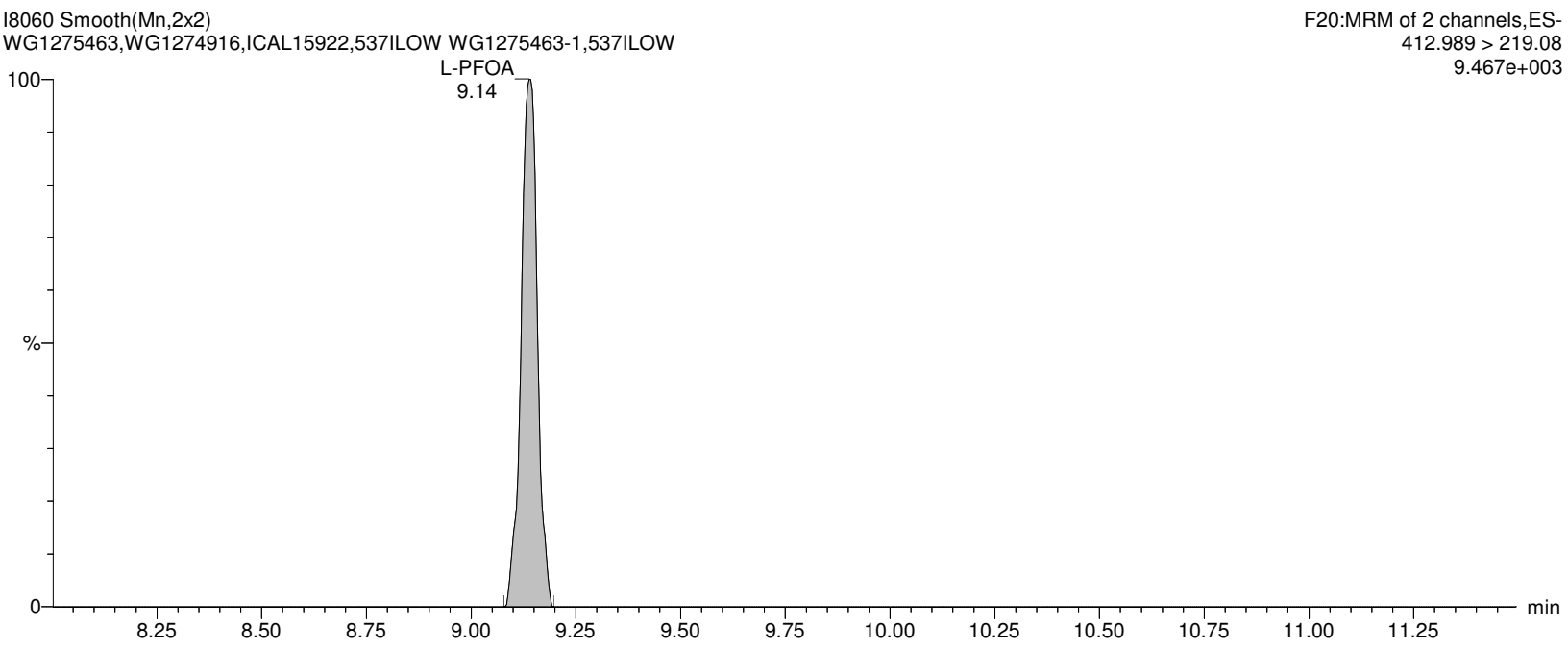
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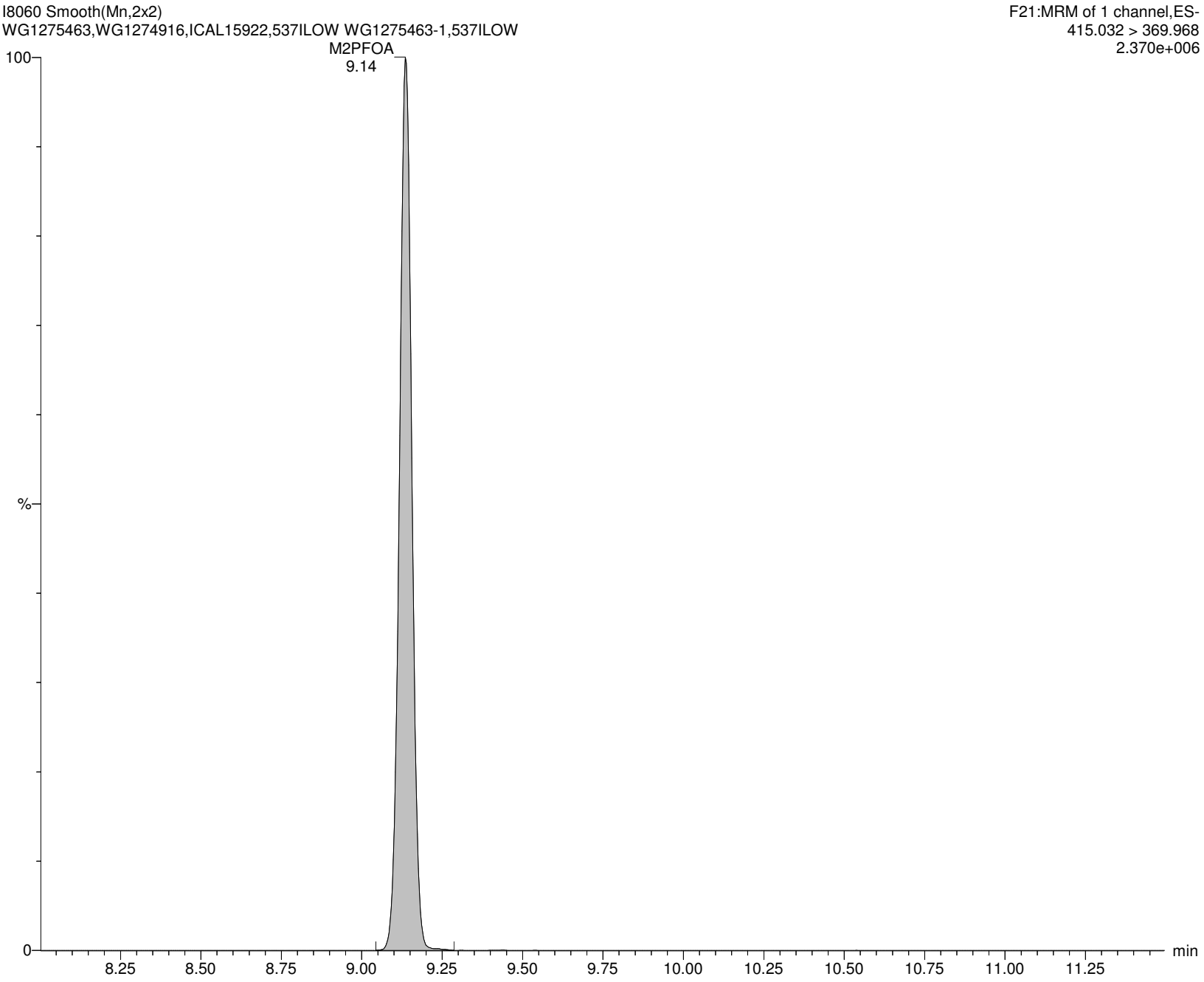


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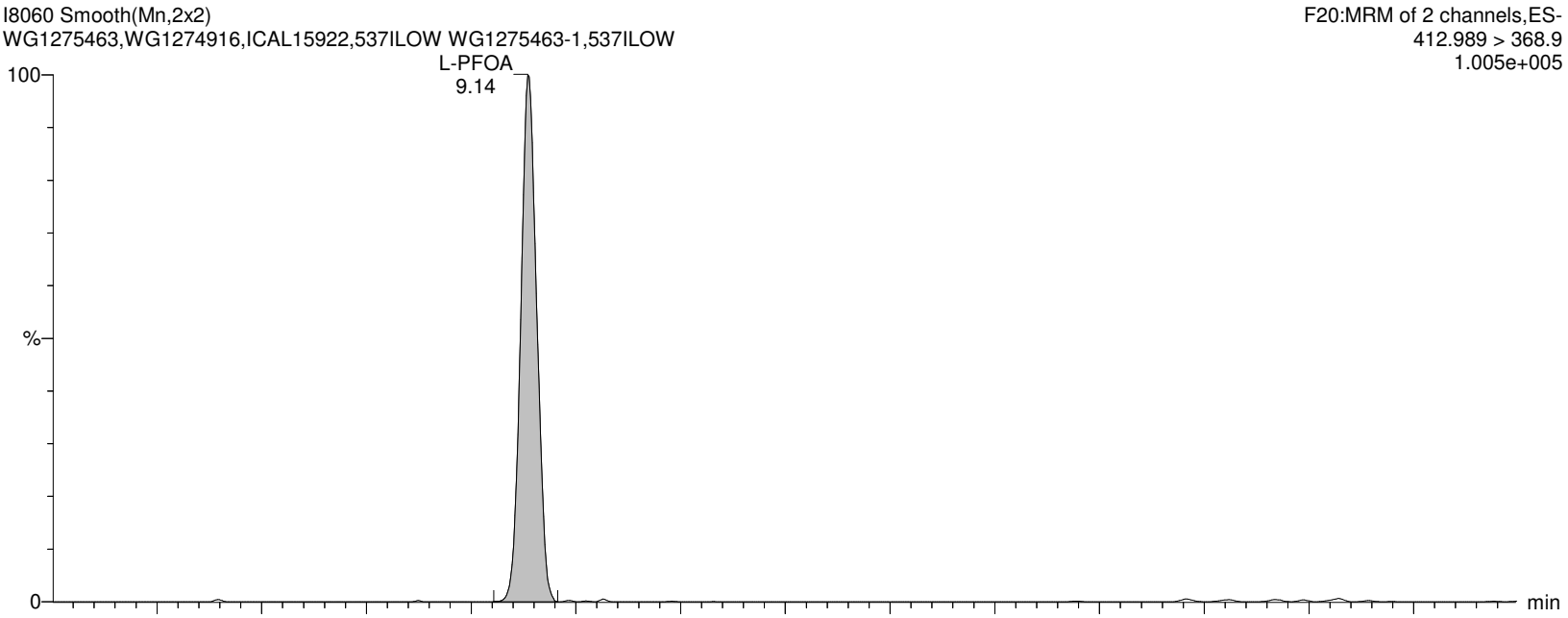


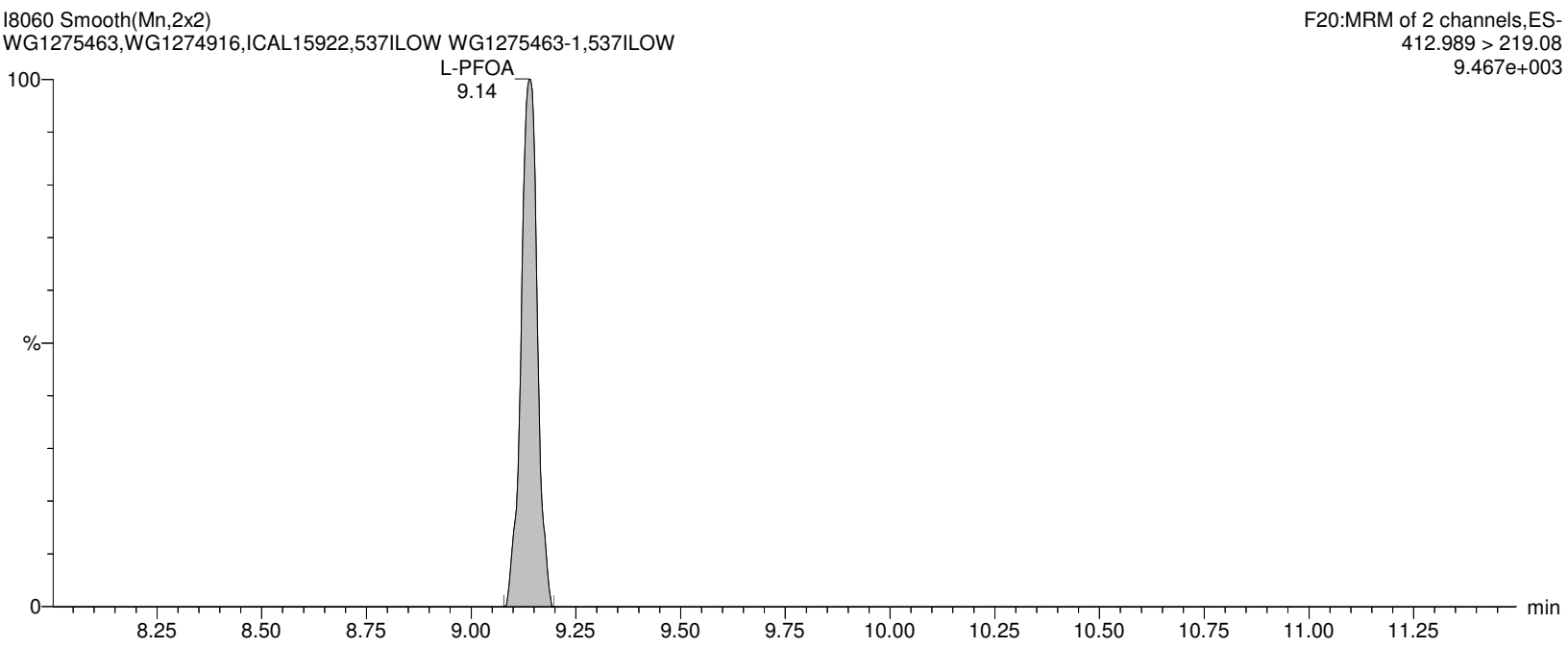
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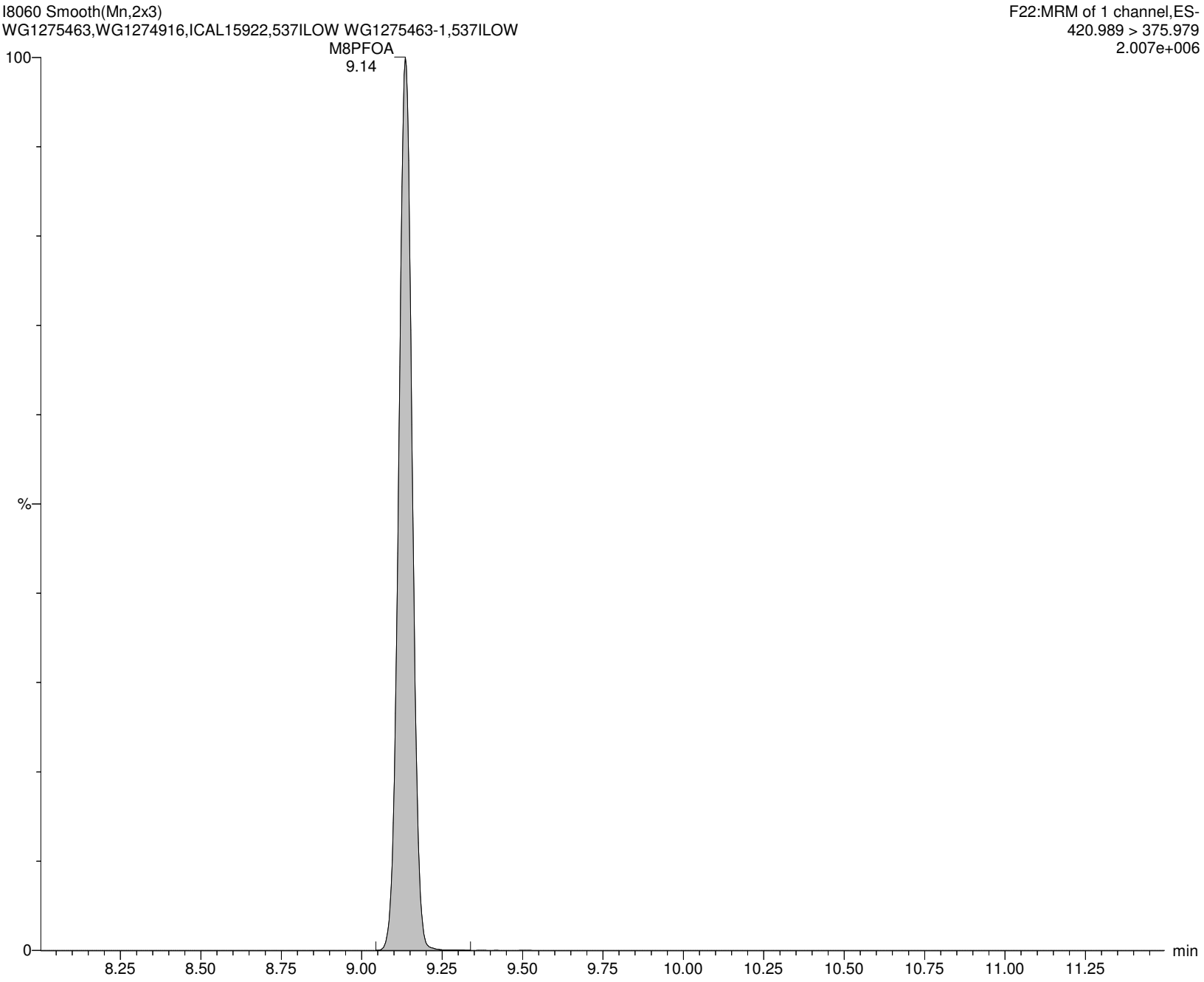


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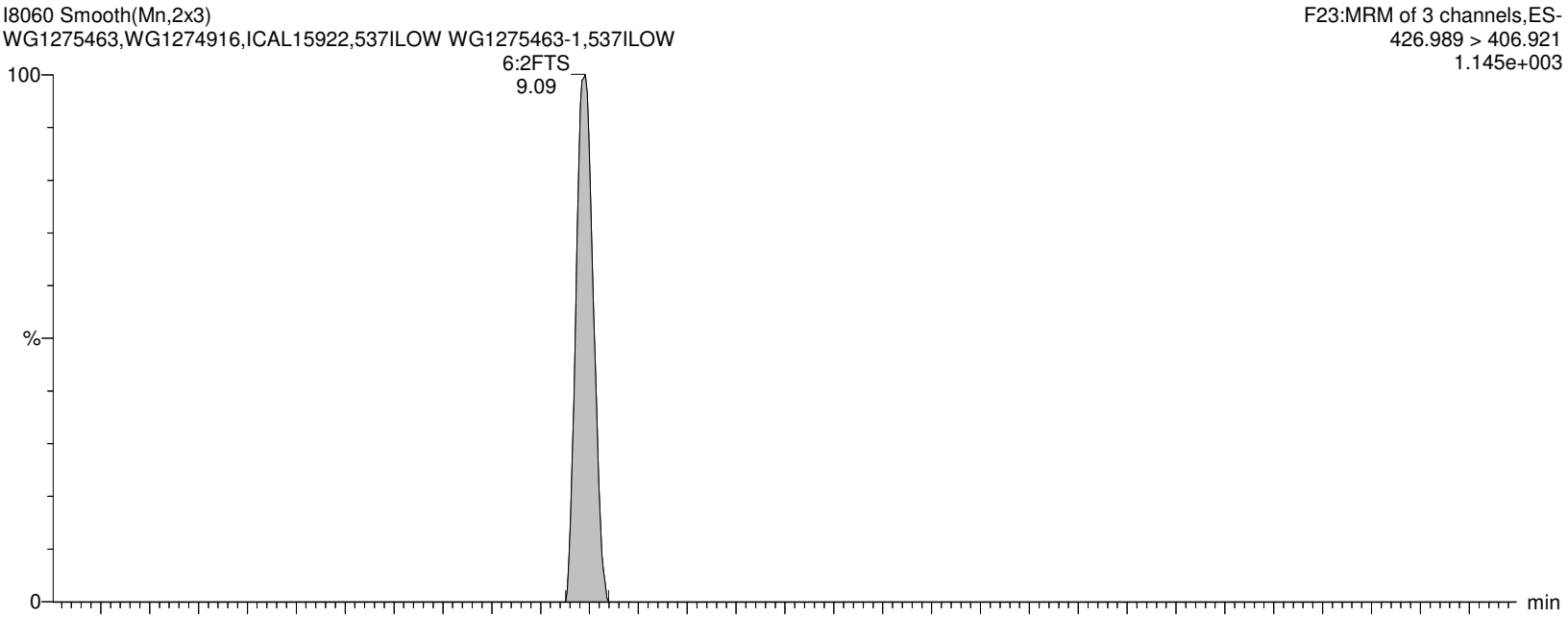


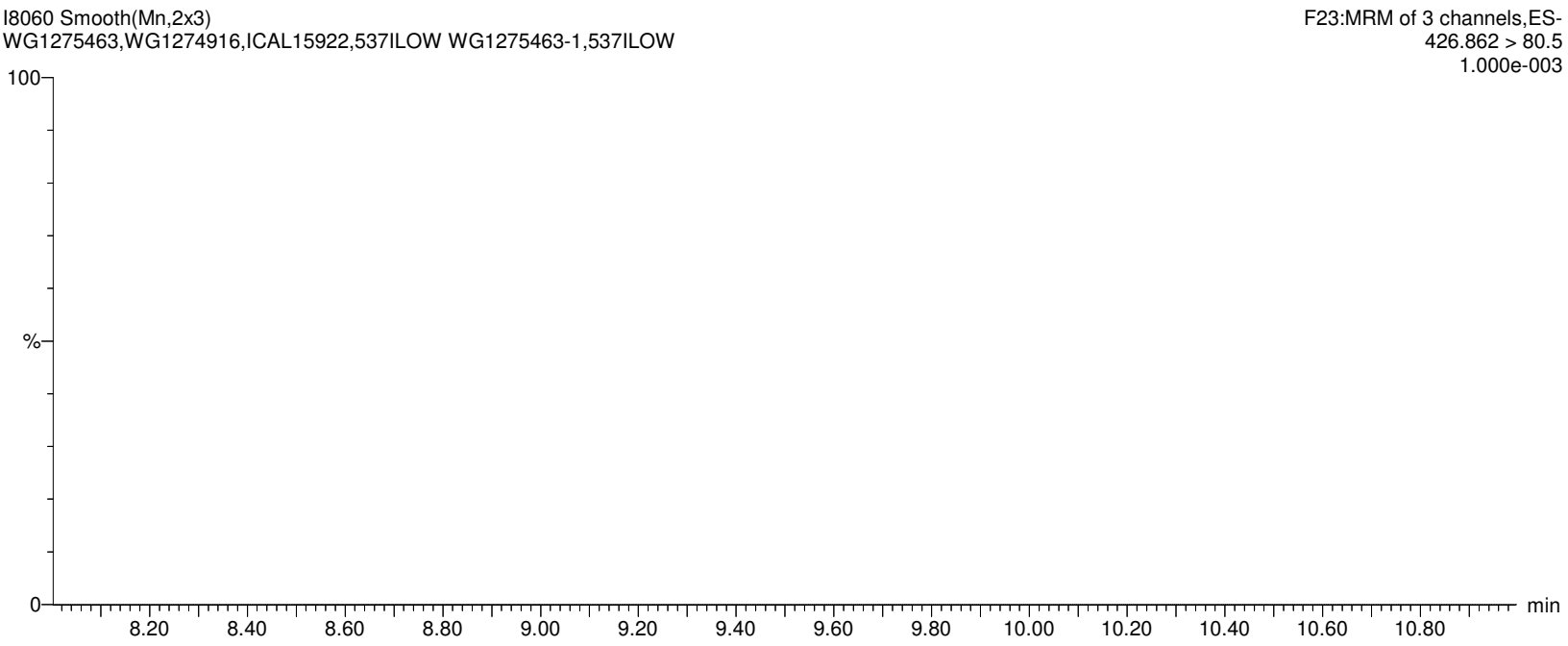
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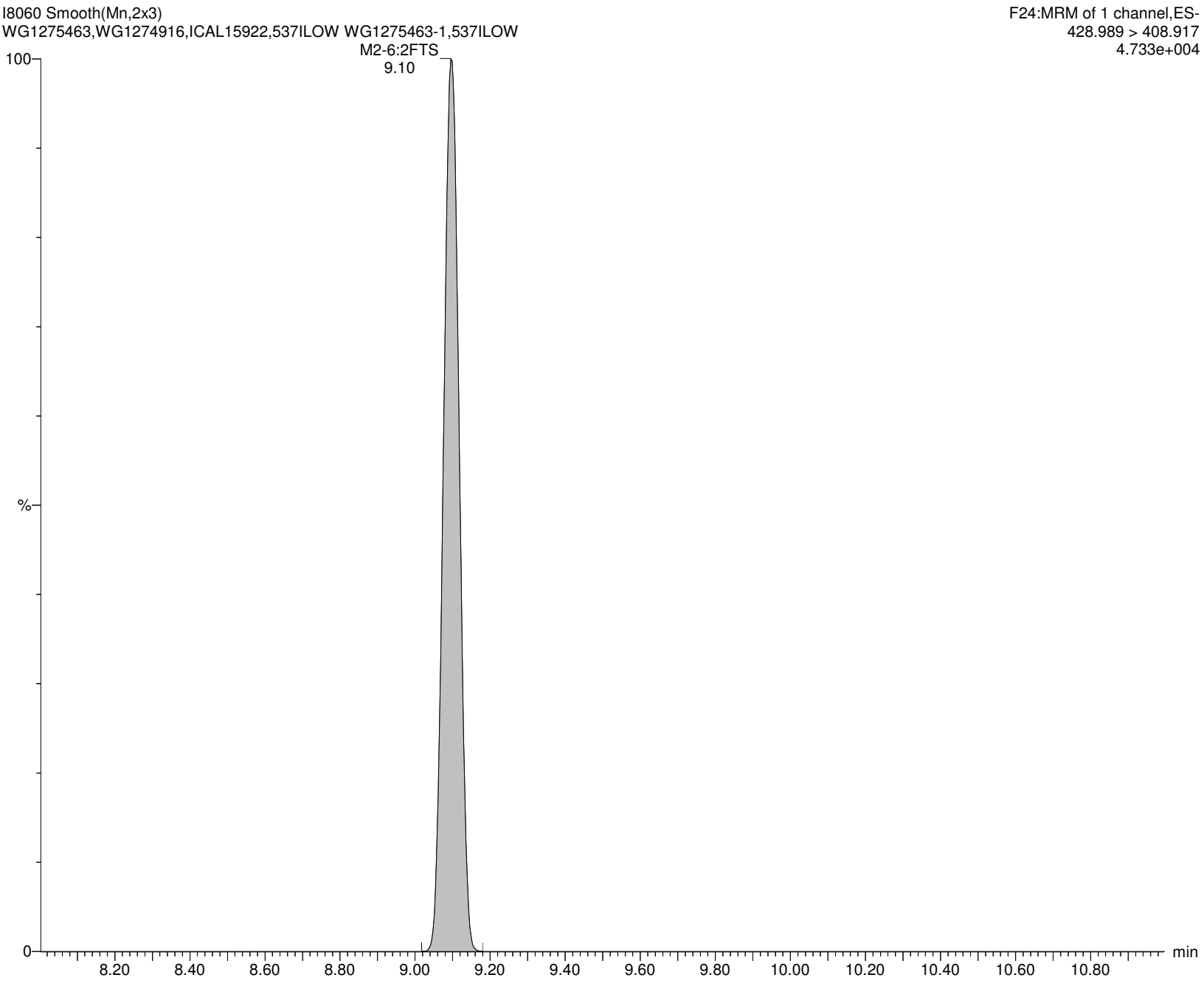


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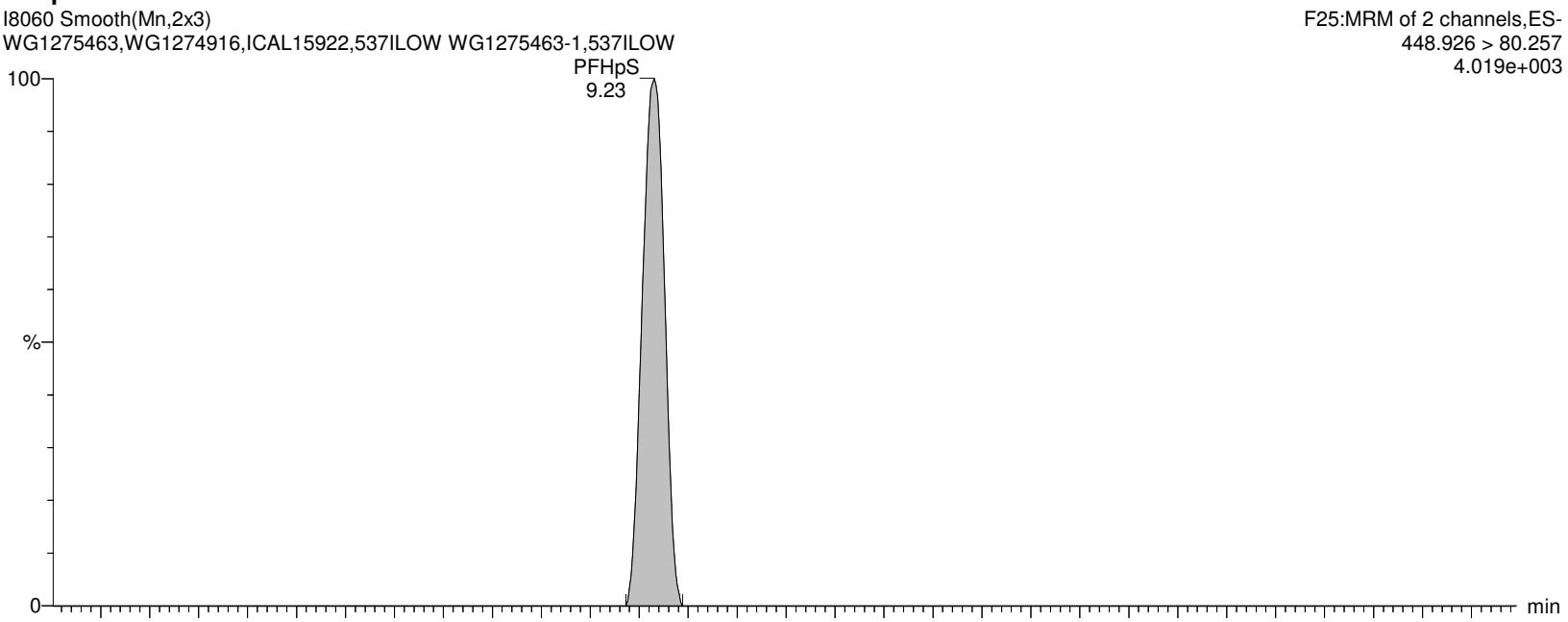


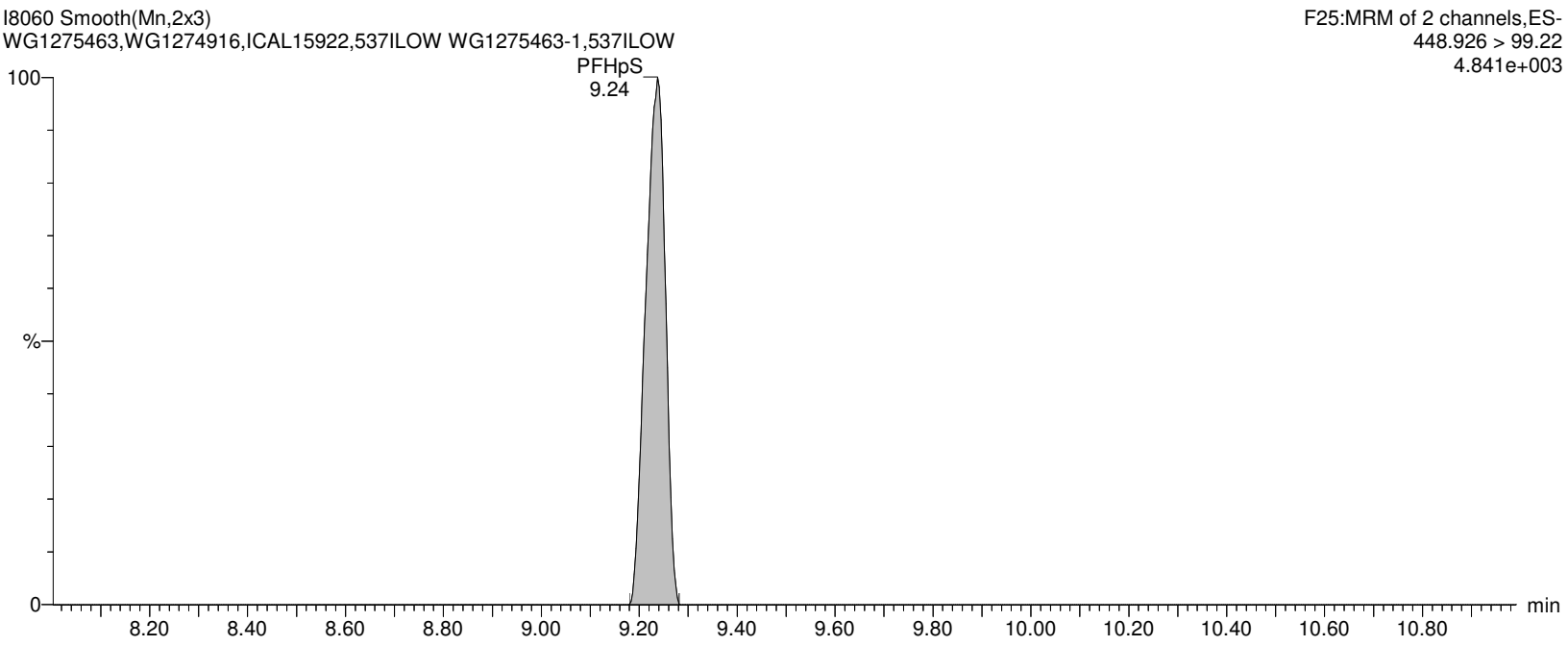
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463-1.qld
Last Altered: Thursday, August 22, 2019 10:11:46 Eastern Daylight Time
Printed: Thursday, August 22, 2019 10:12:11 Eastern Daylight Time

Name: I8060
ID: WG1275463-1,537ILOW
Date: 22-Aug-2019
Time: 09:43:11
Description: WG1275463,WG1274916,ICAL15922,537ILOW
User: LCMS02:JW
Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEB0050
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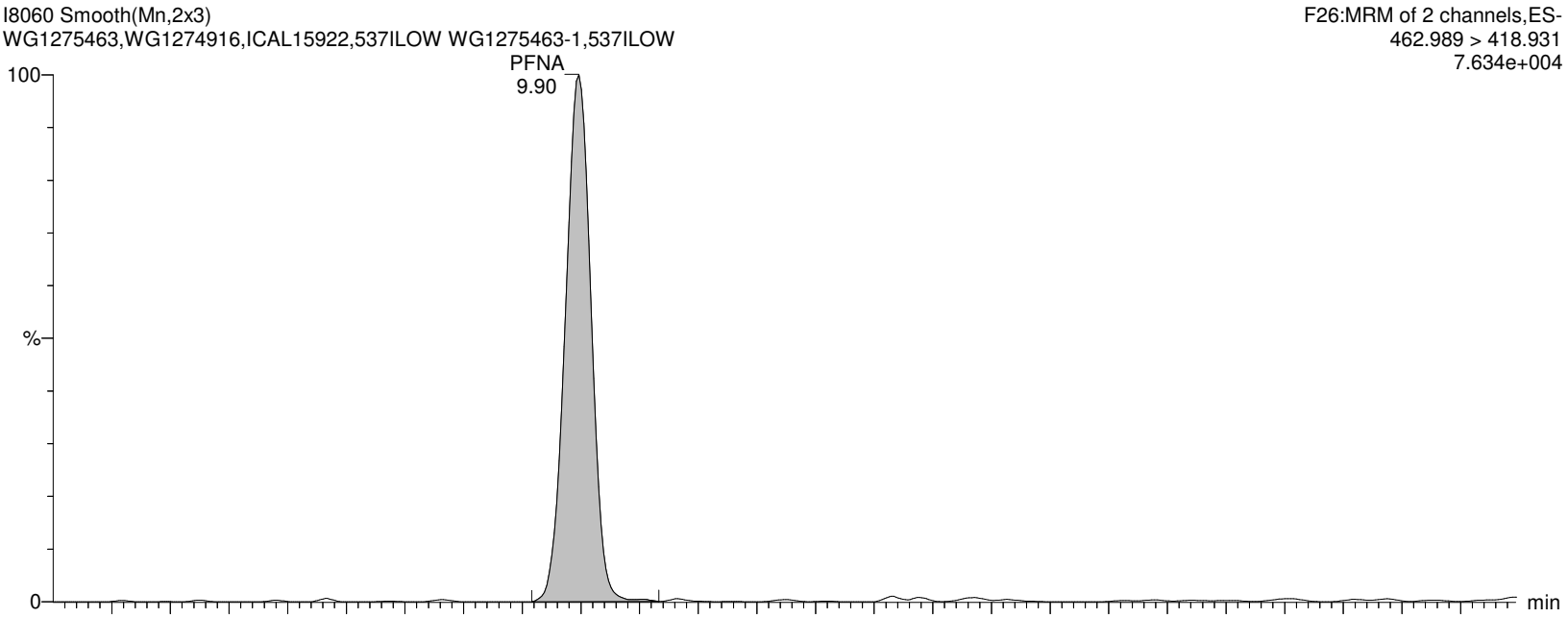


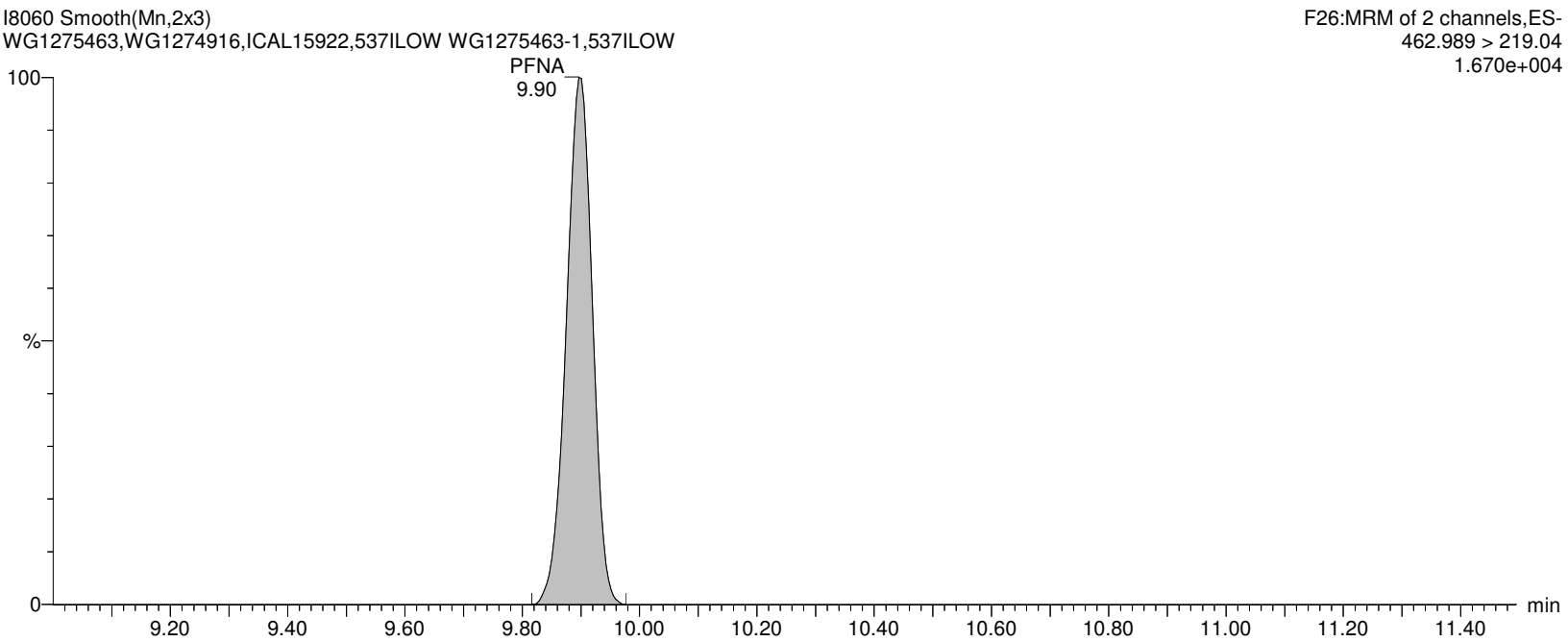
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, August 22, 2019 10:11:46 Eastern Daylight Time
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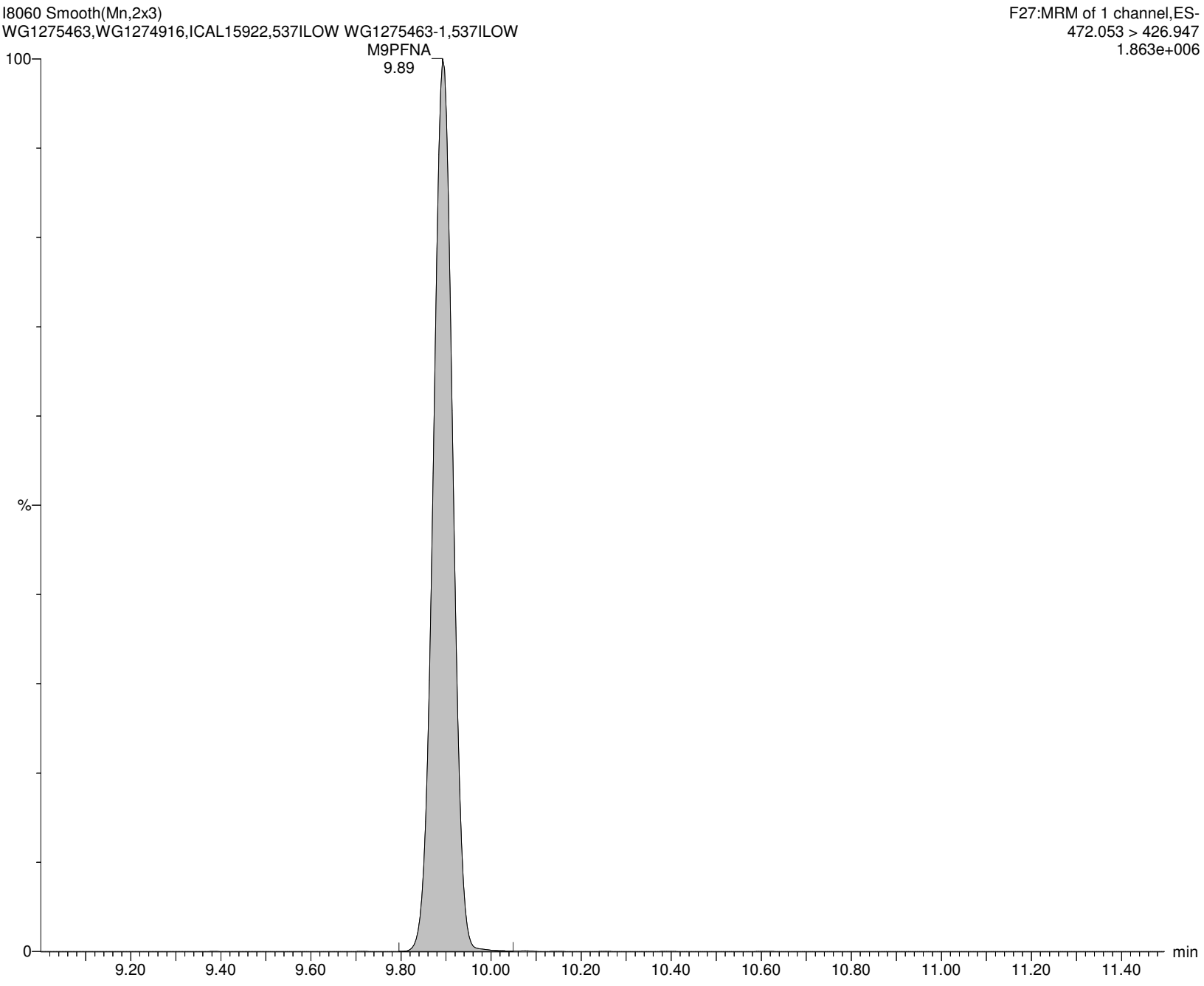


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Vial: 1:A,2
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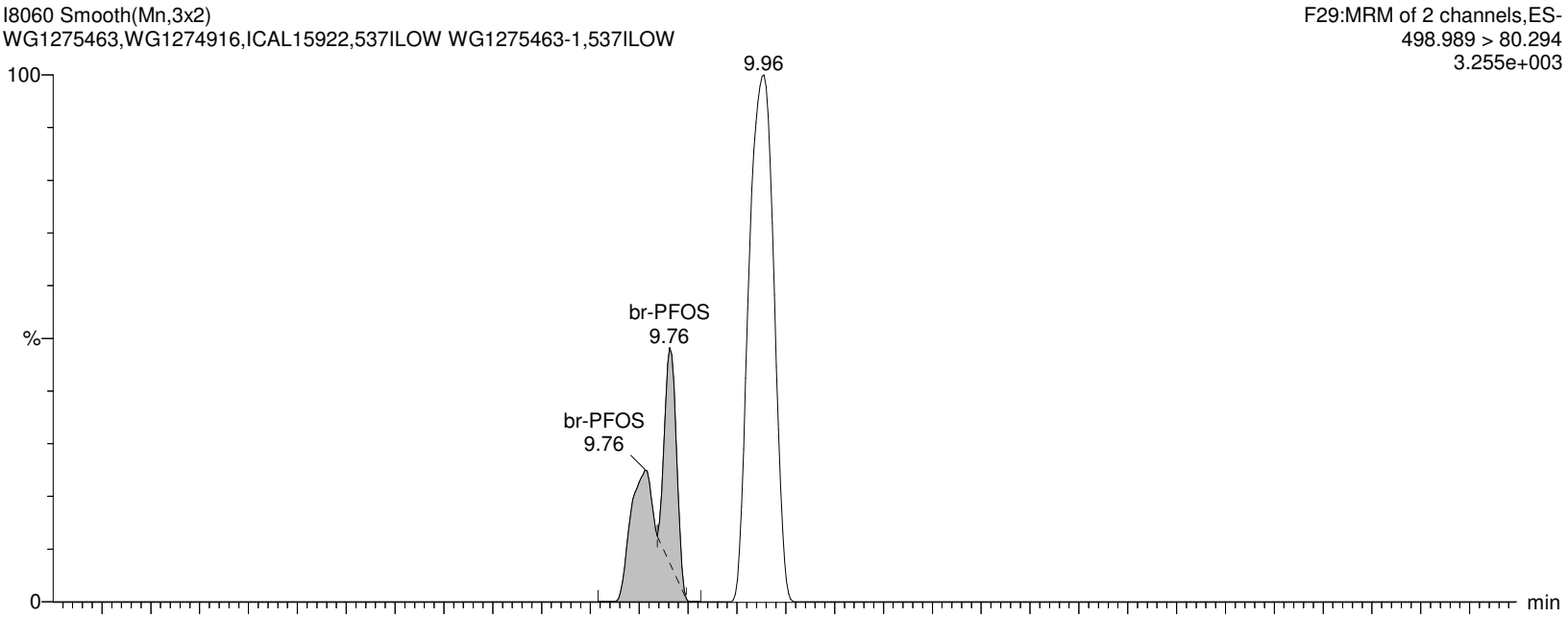


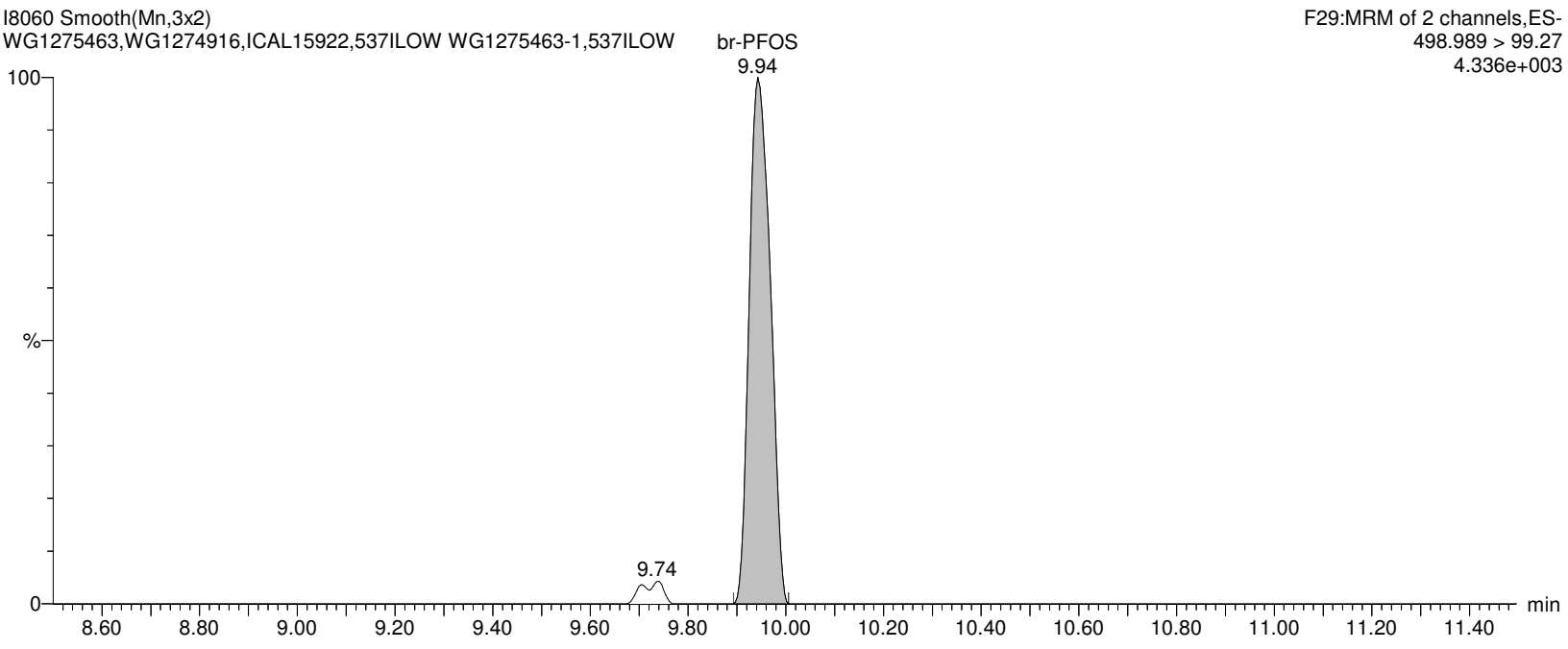
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, August 22, 2019 10:11:46 Eastern Daylight Time
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Vial: 1:A,2
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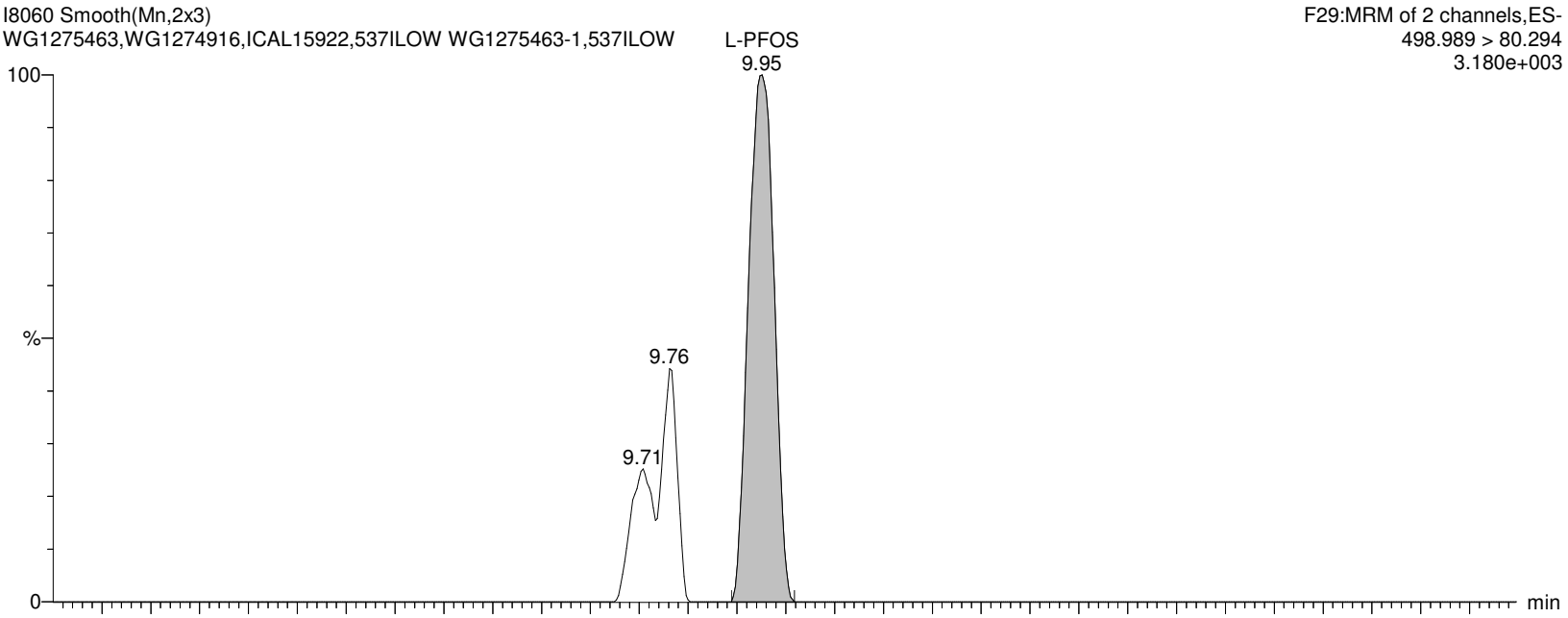


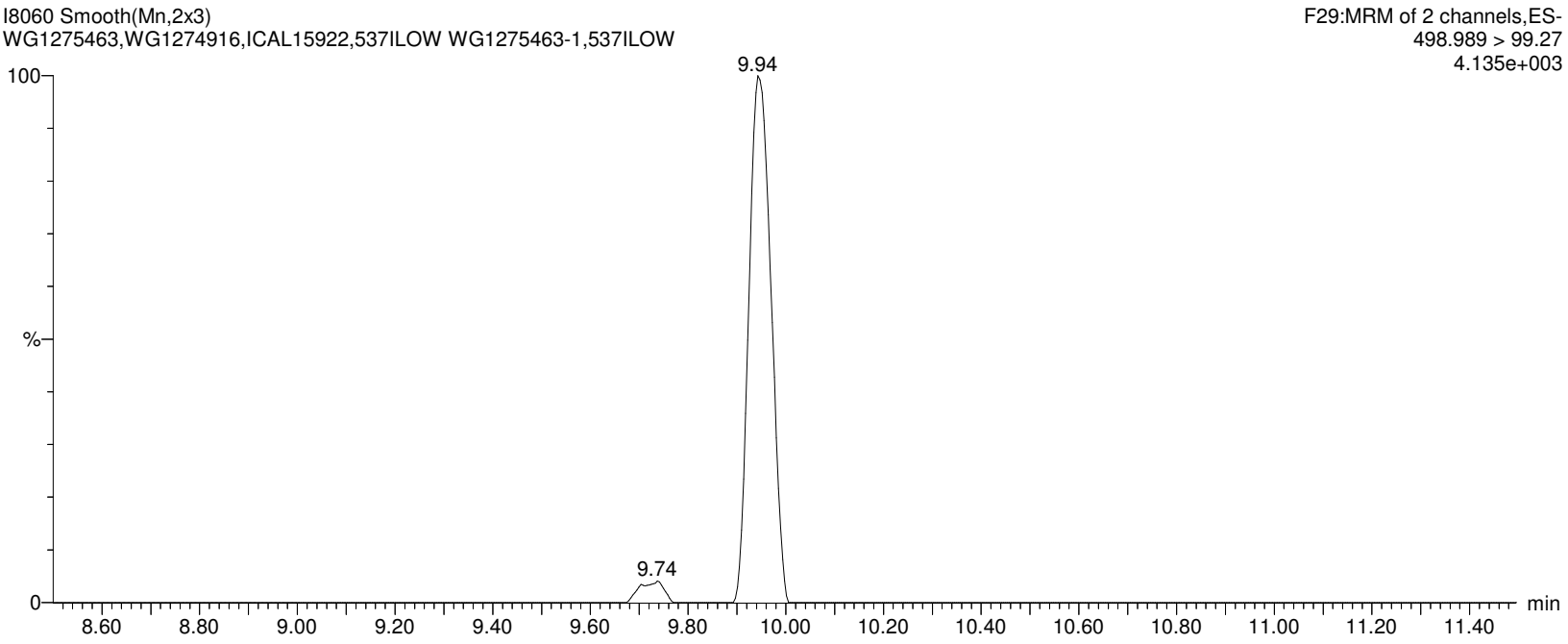
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Vial: 1:A,2
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L-PFOS



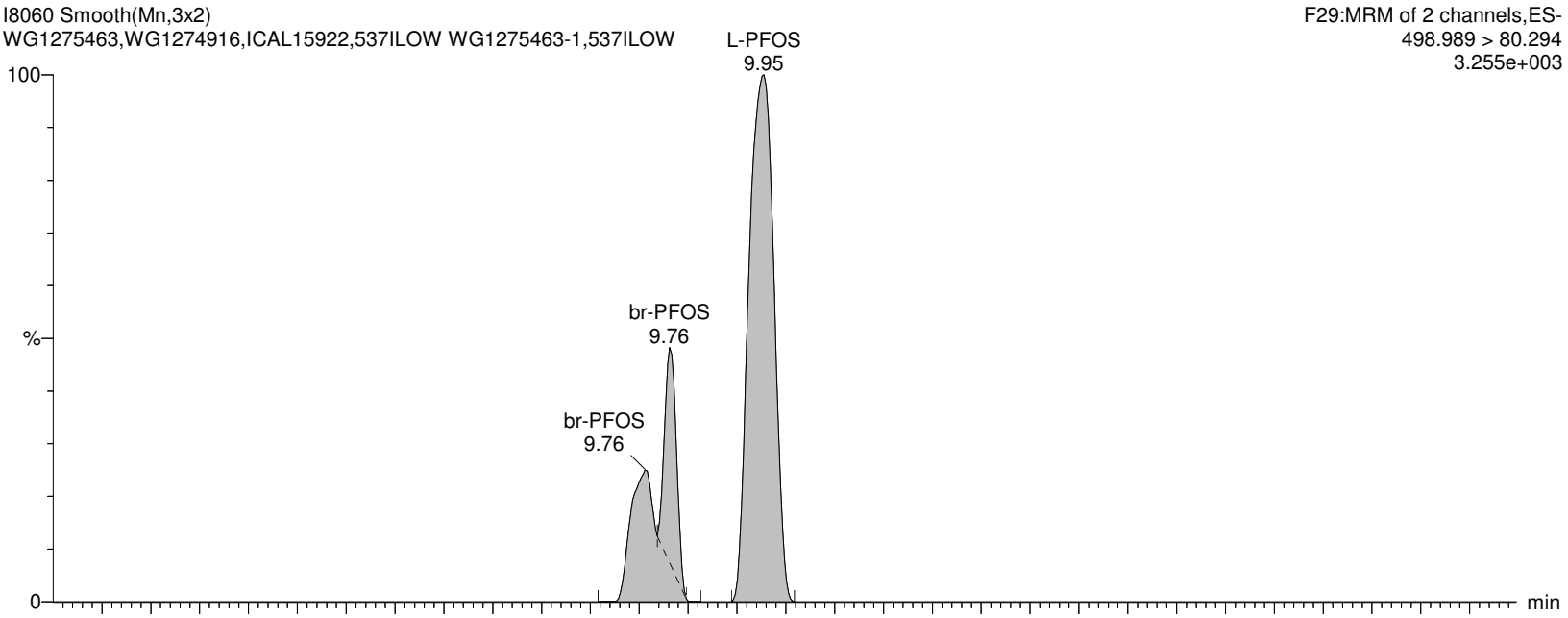


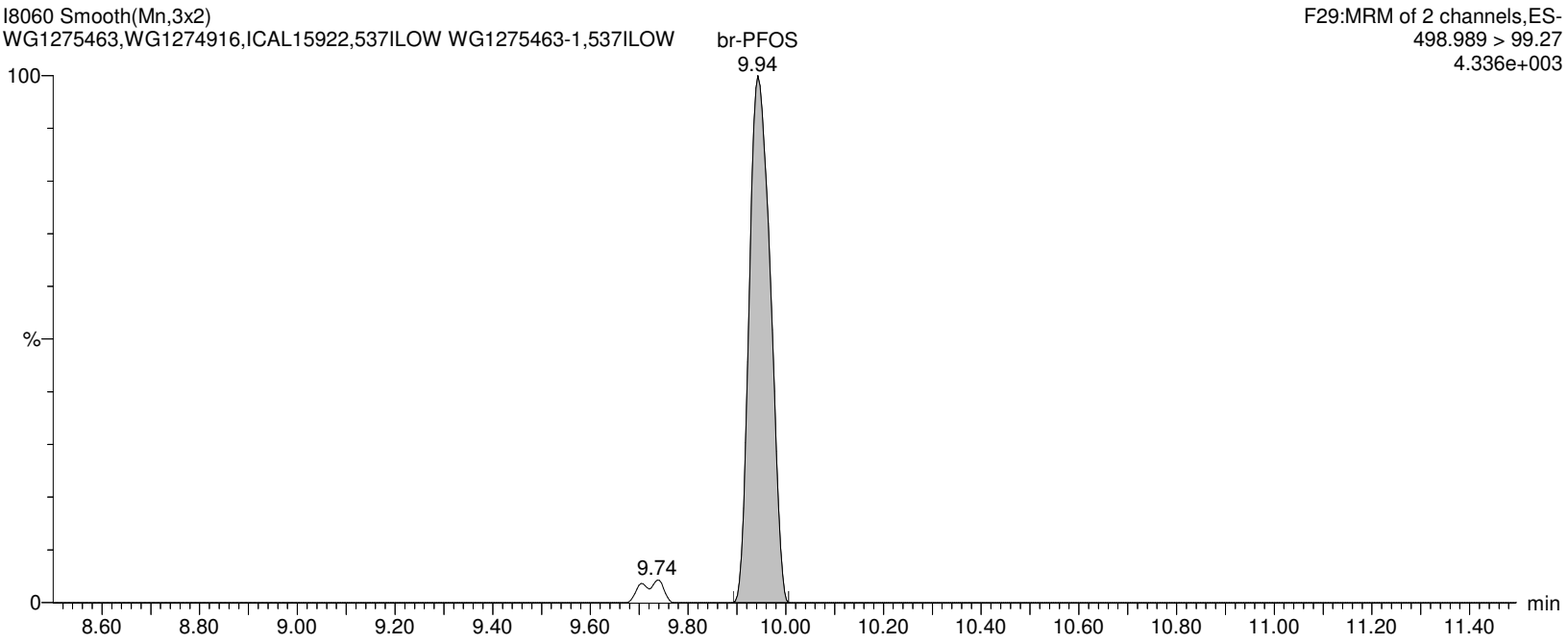
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463-1.qld
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Time: 09:43:11
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Vial: 1:A,2
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PFOS



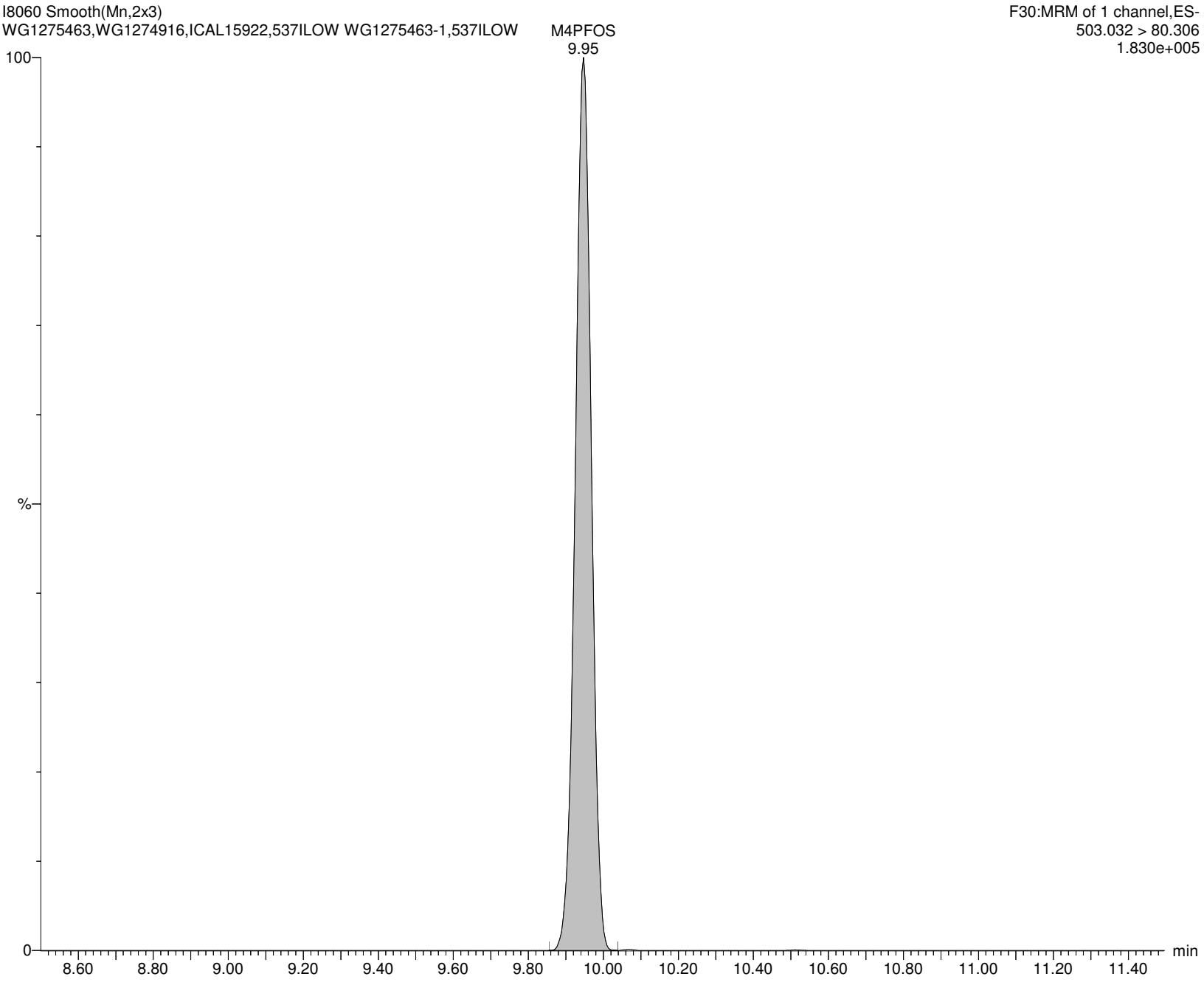


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, August 22, 2019 10:11:46 Eastern Daylight Time
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ID: WG1275463-1,537ILOW
Date: 22-Aug-2019
Time: 09:43:11
Description: WG1275463,WG1274916,ICAL15922,537ILOW
User: LCMS02:JW
Vial: 1:A,2
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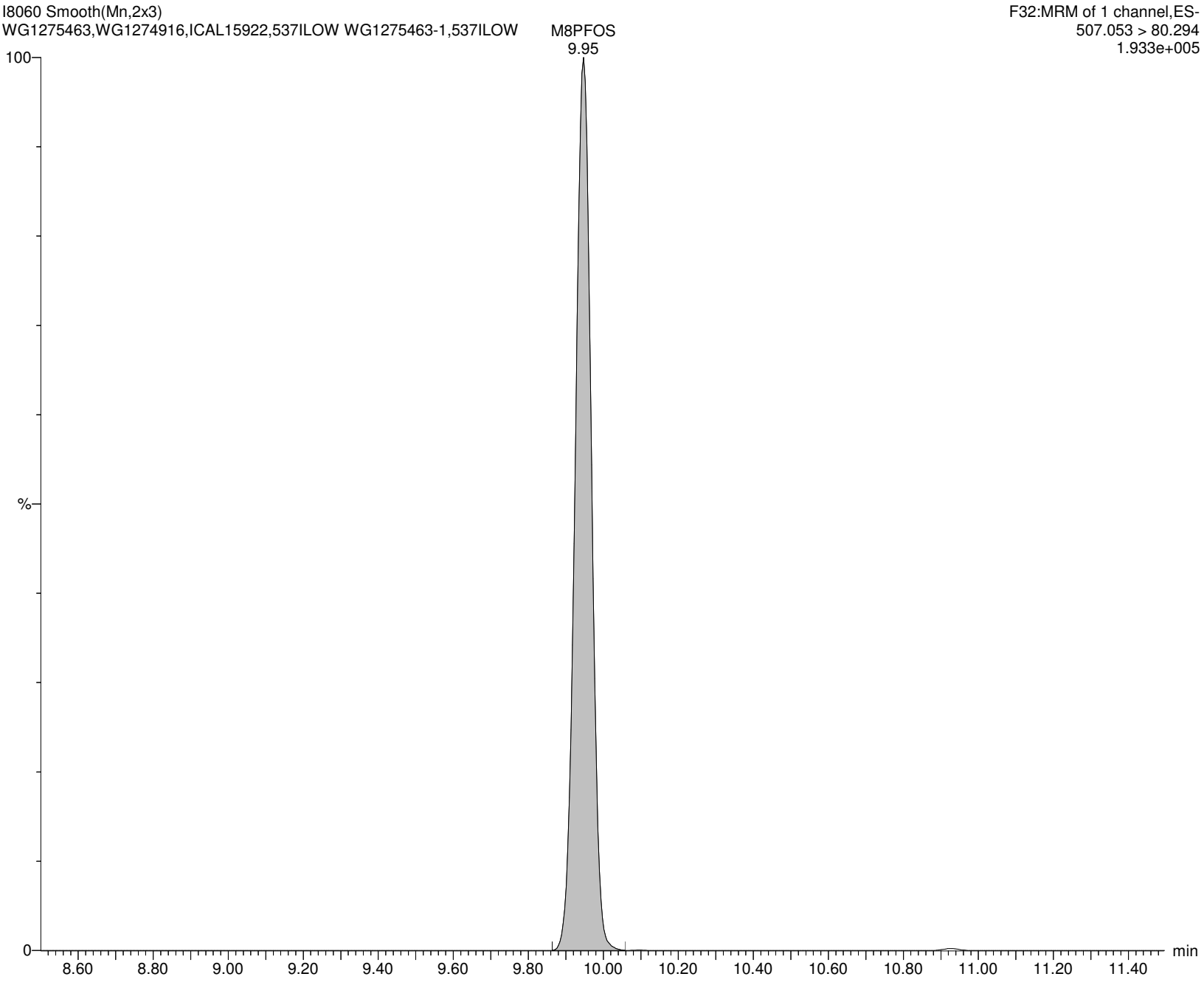


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, August 22, 2019 10:11:46 Eastern Daylight Time
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Date: 22-Aug-2019
Time: 09:43:11
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User: LCMS02:JW
Vial: 1:A,2
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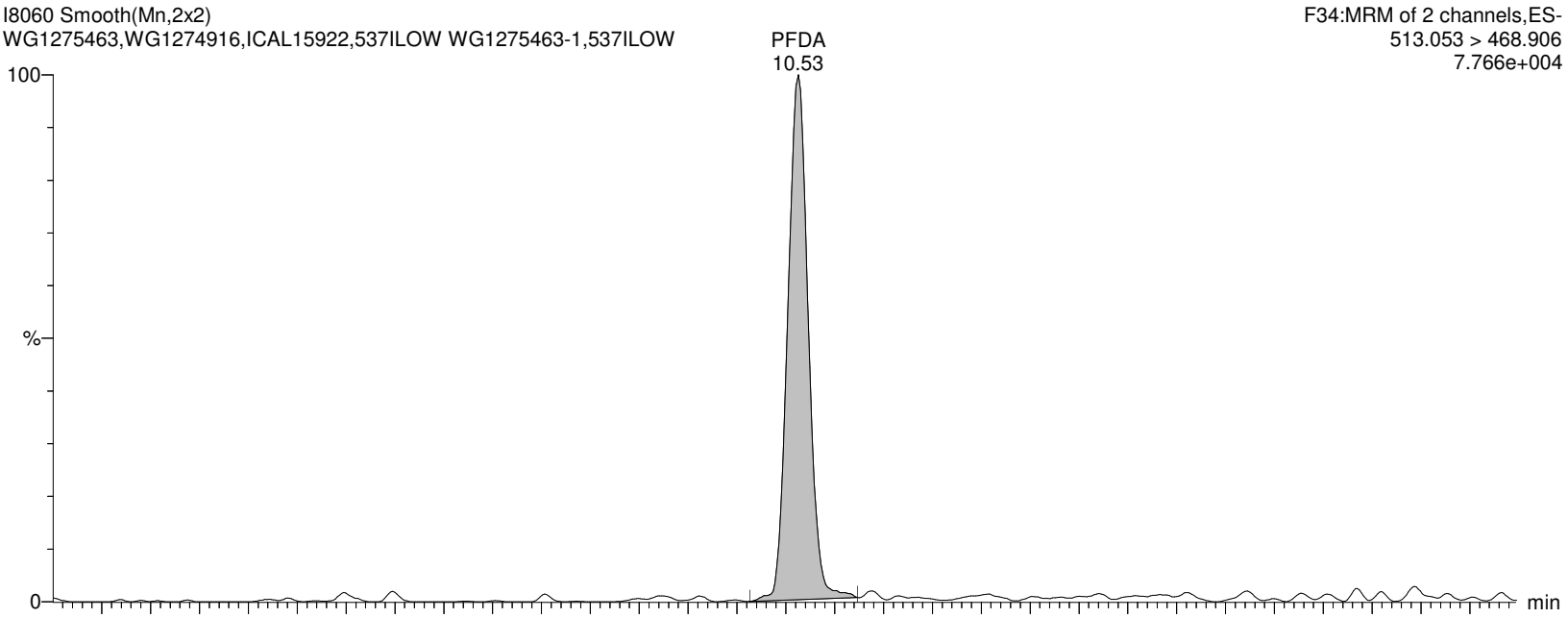


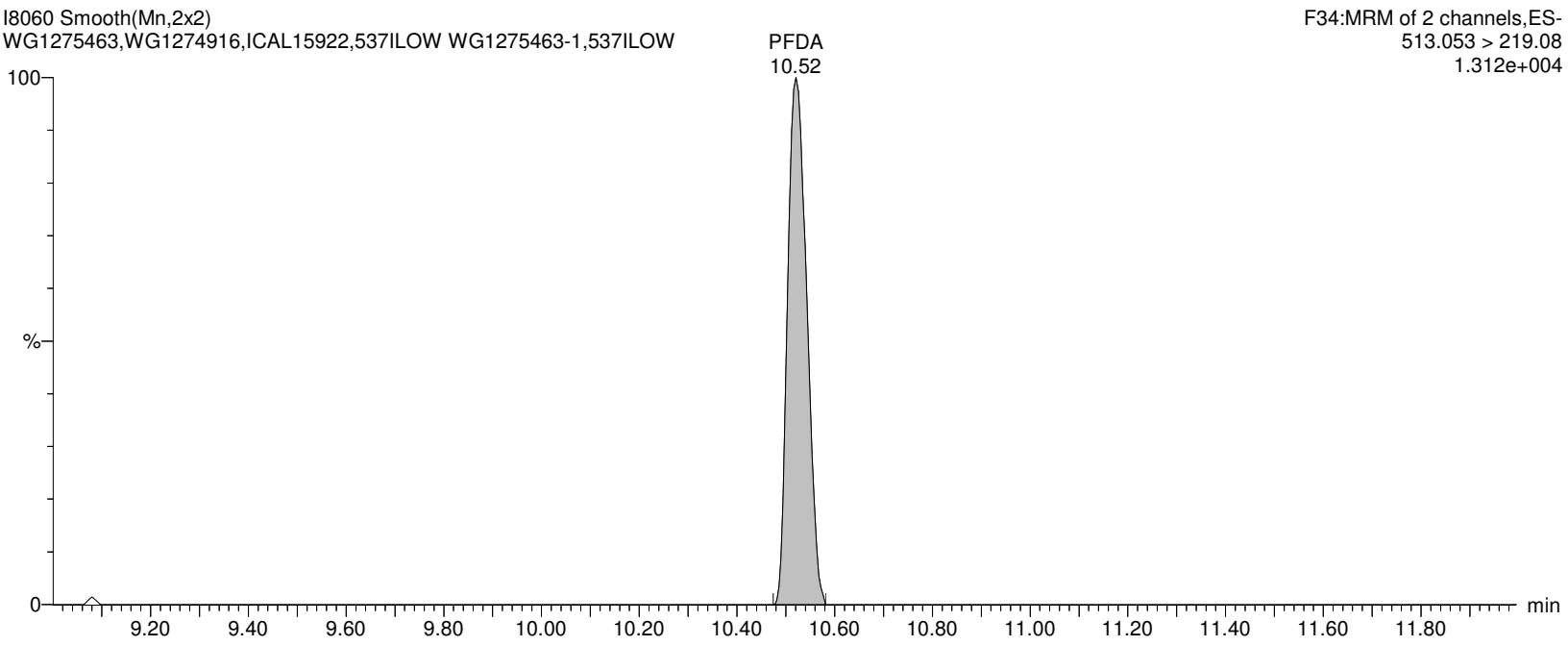
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, August 22, 2019 10:11:46 Eastern Daylight Time
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Name: I8060
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Date: 22-Aug-2019
Time: 09:43:11
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Vial: 1:A,2
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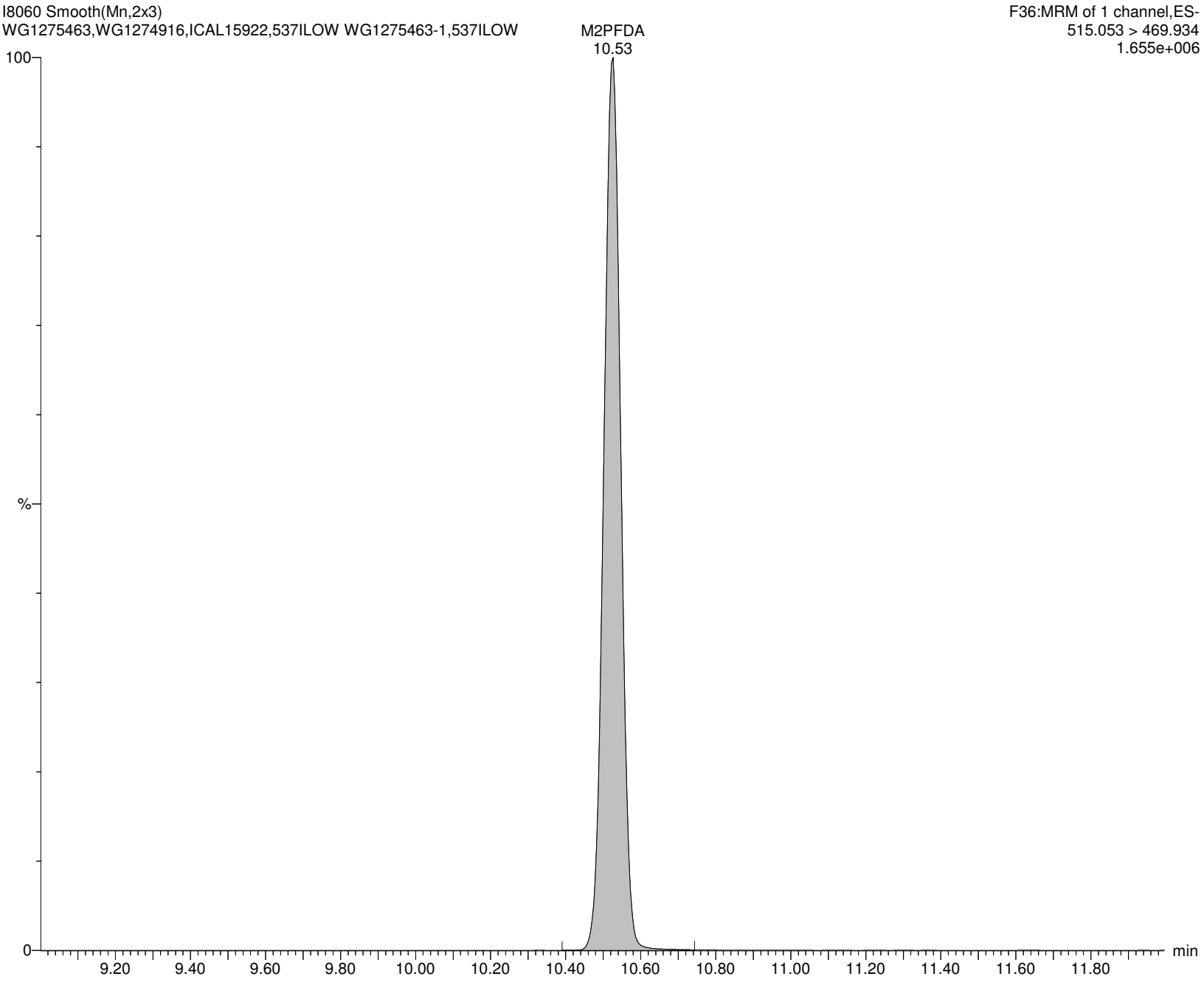


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, August 22, 2019 10:11:46 Eastern Daylight Time
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ID: WG1275463-1,537ILOW
Date: 22-Aug-2019
Time: 09:43:11
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User: LCMS02:JW
Vial: 1:A,2
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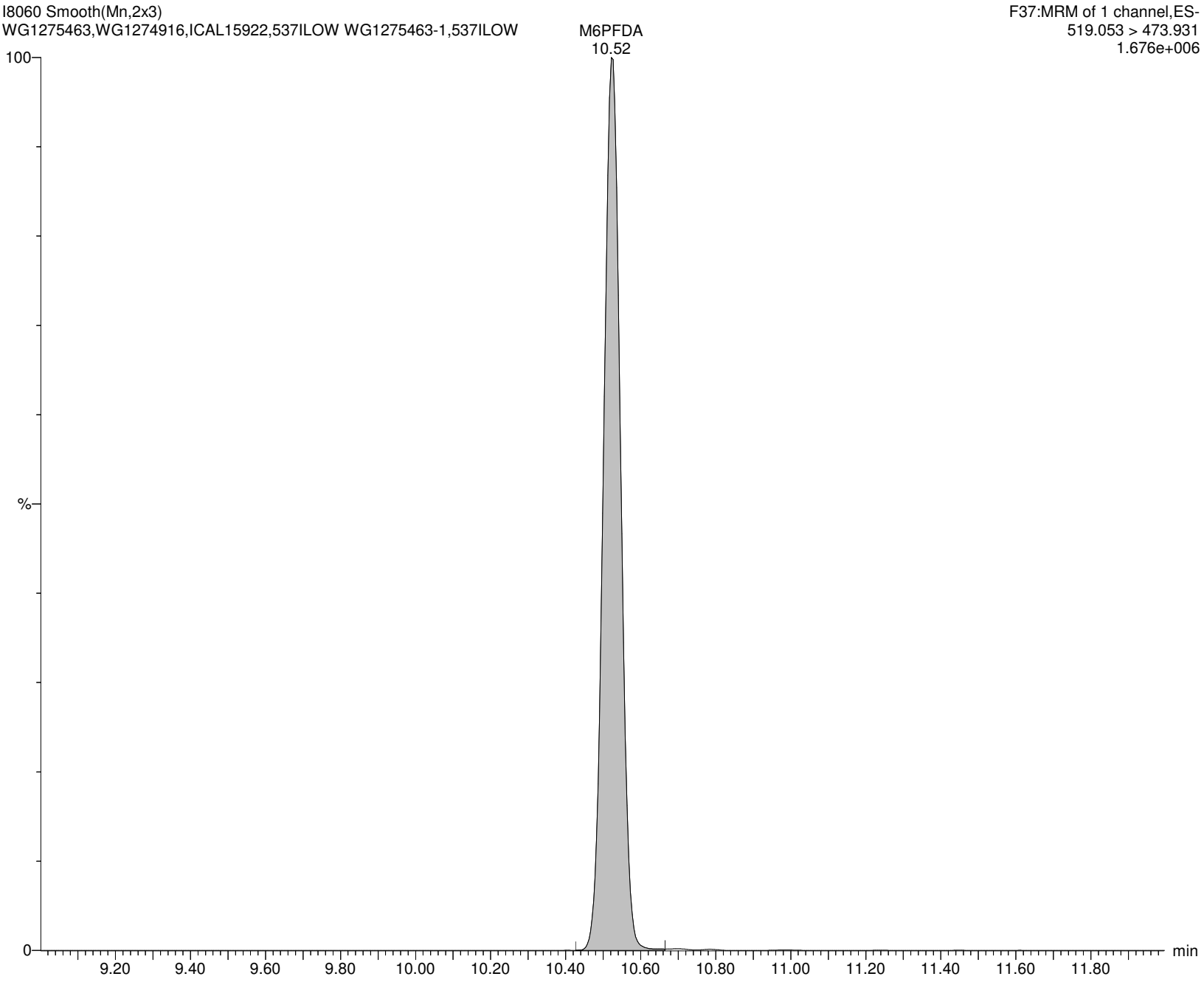


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463-1.qld
Last Altered: Thursday, August 22, 2019 10:11:46 Eastern Daylight Time
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Vial: 1:A,2
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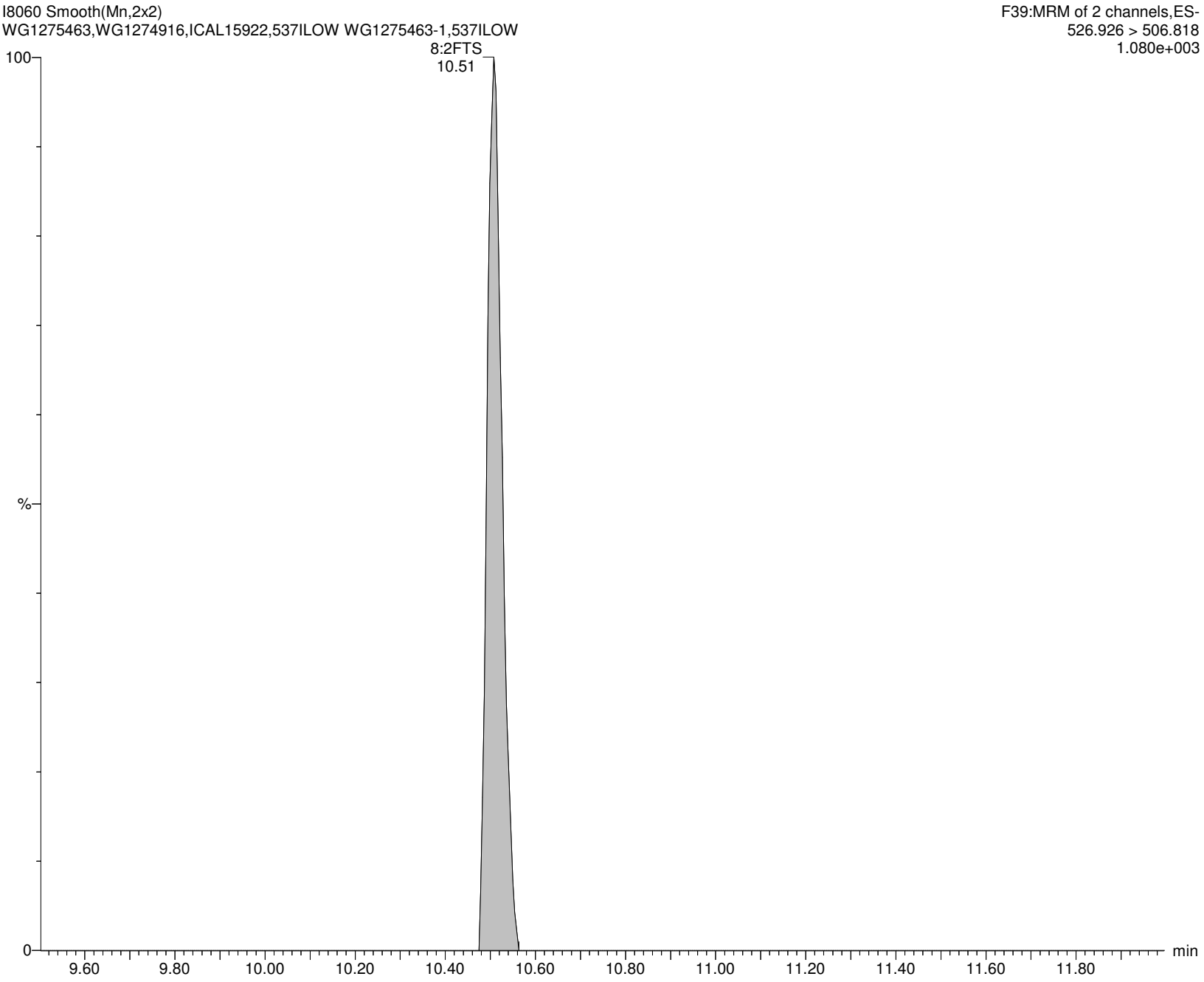


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Vial: 1:A,2
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8:2FTS

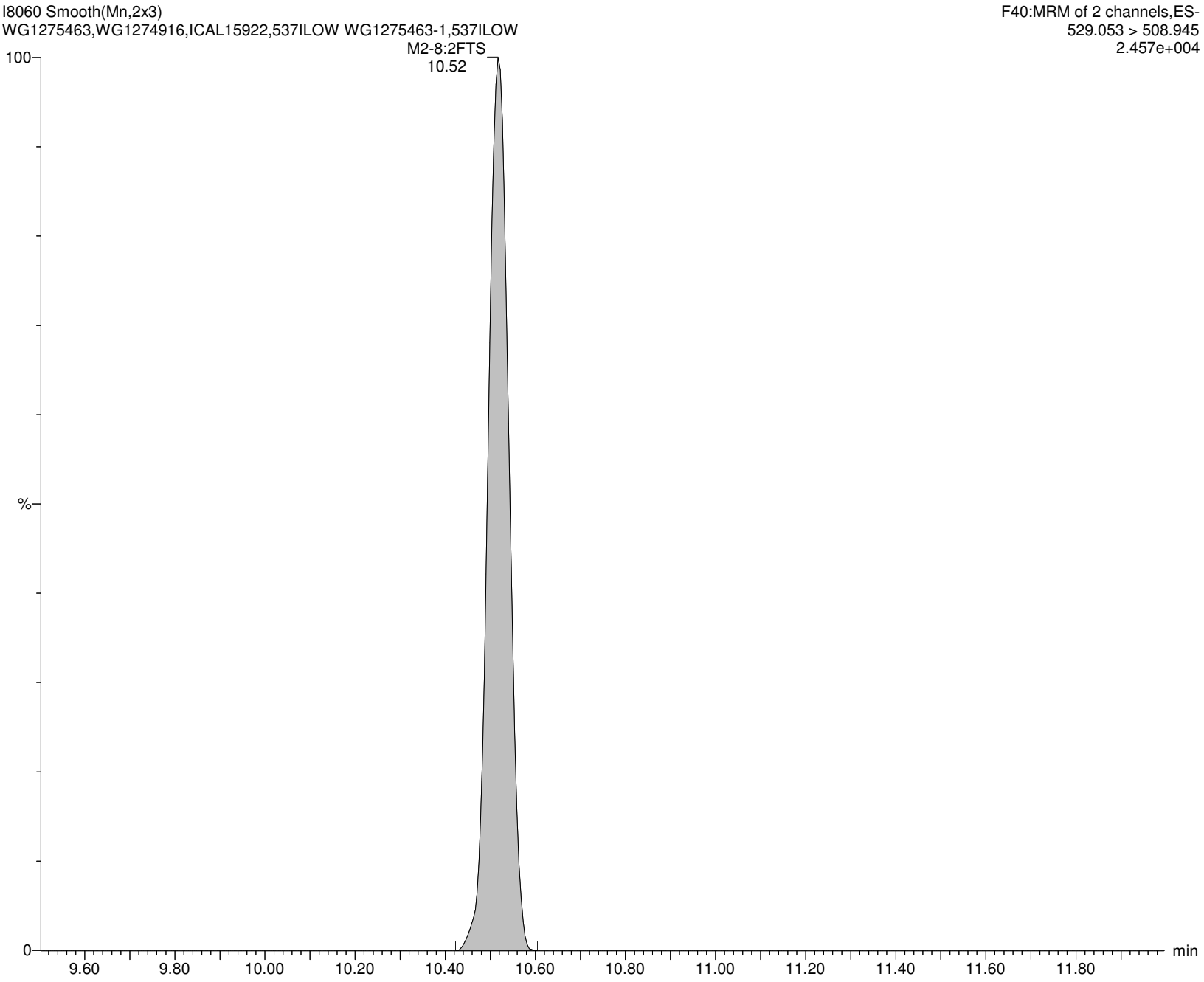


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463-1.qld
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User: LCMS02:JW
Vial: 1:A,2
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M2-8:2FTS

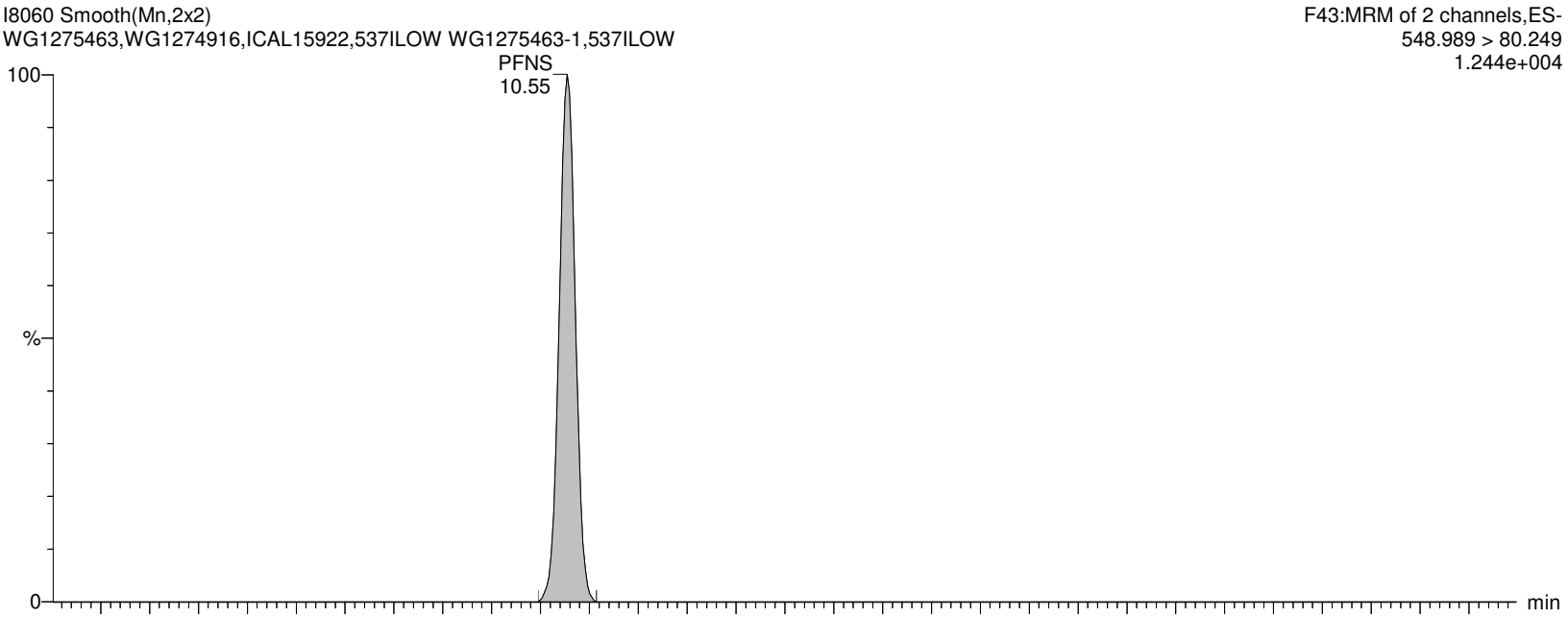


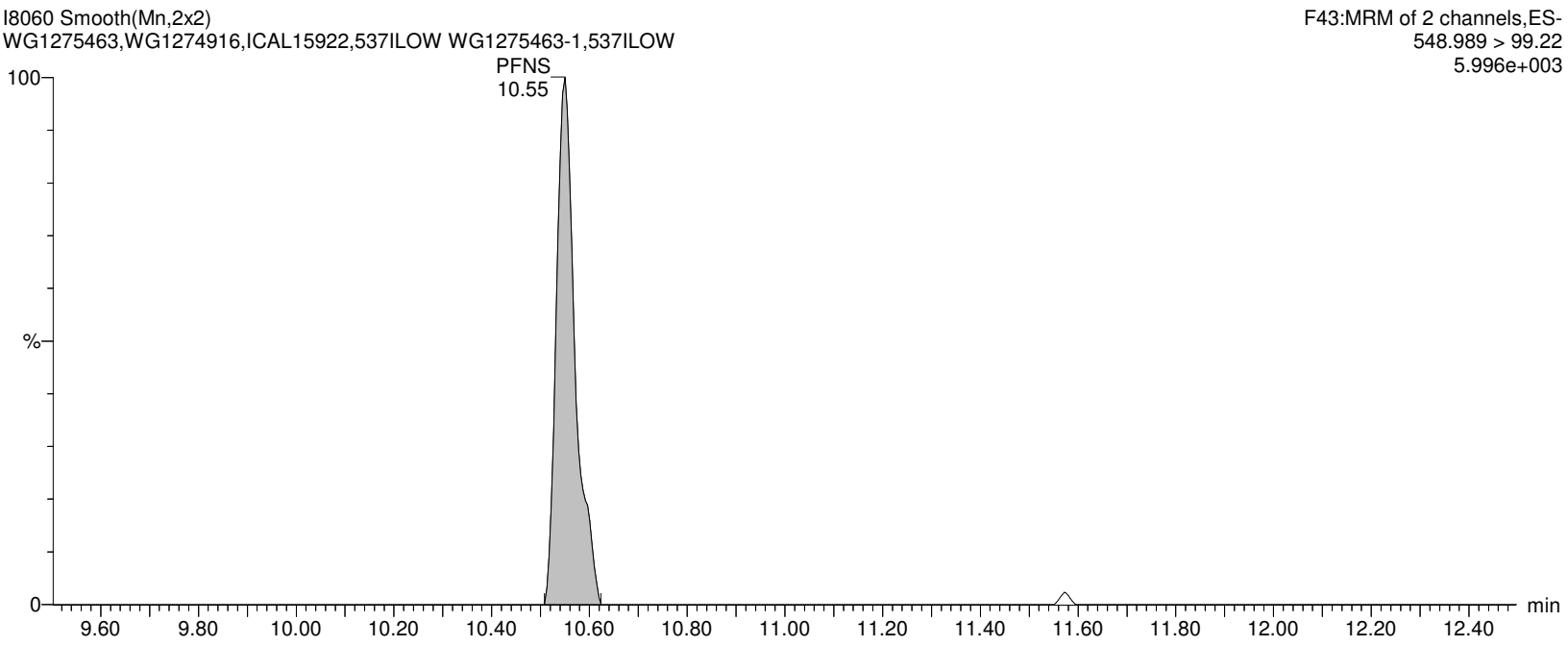
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463-1.qld
Last Altered: Thursday, August 22, 2019 10:11:46 Eastern Daylight Time
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Vial: 1:A,2
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PFNS



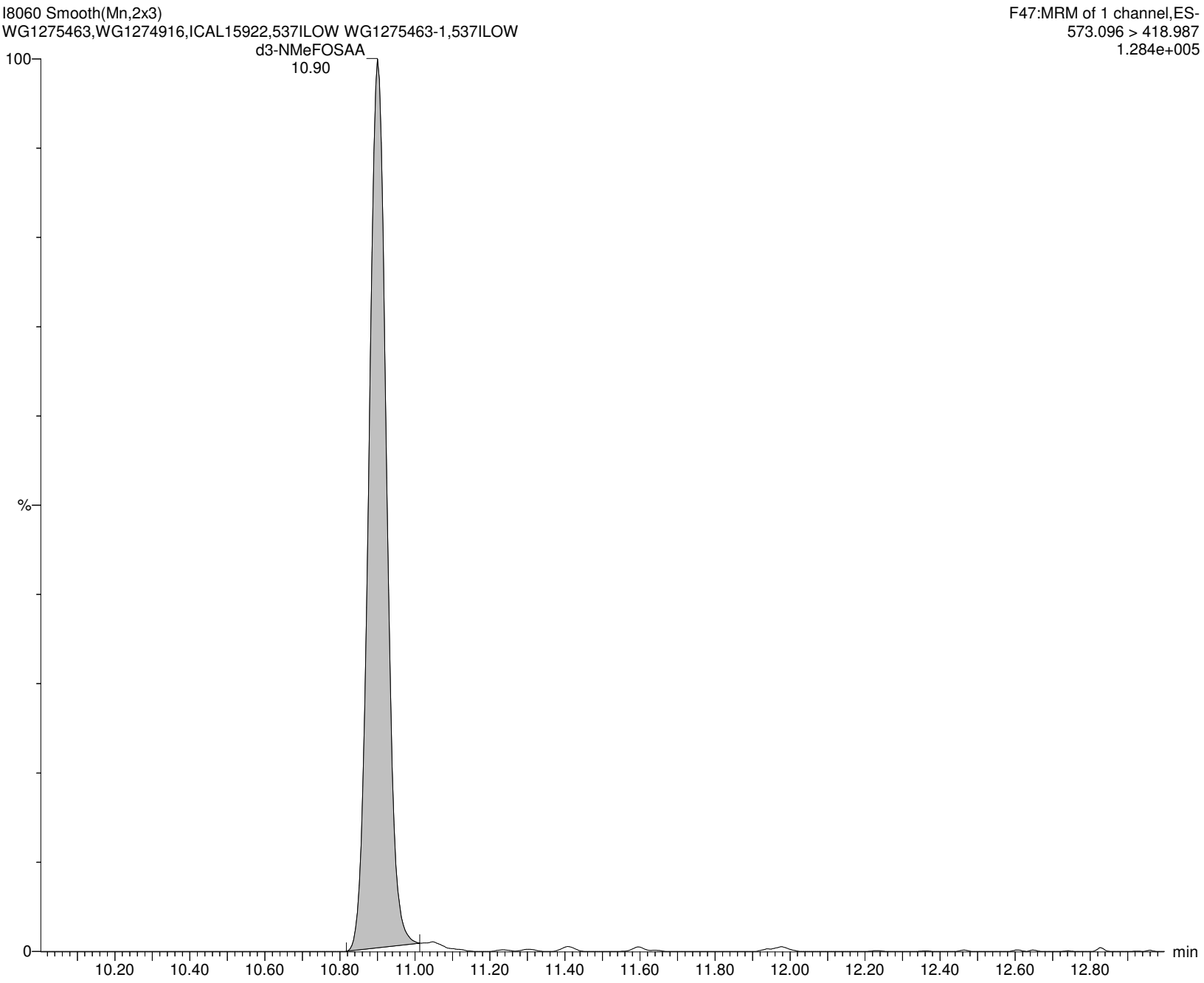


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463-1.qld
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Vial: 1:A,2
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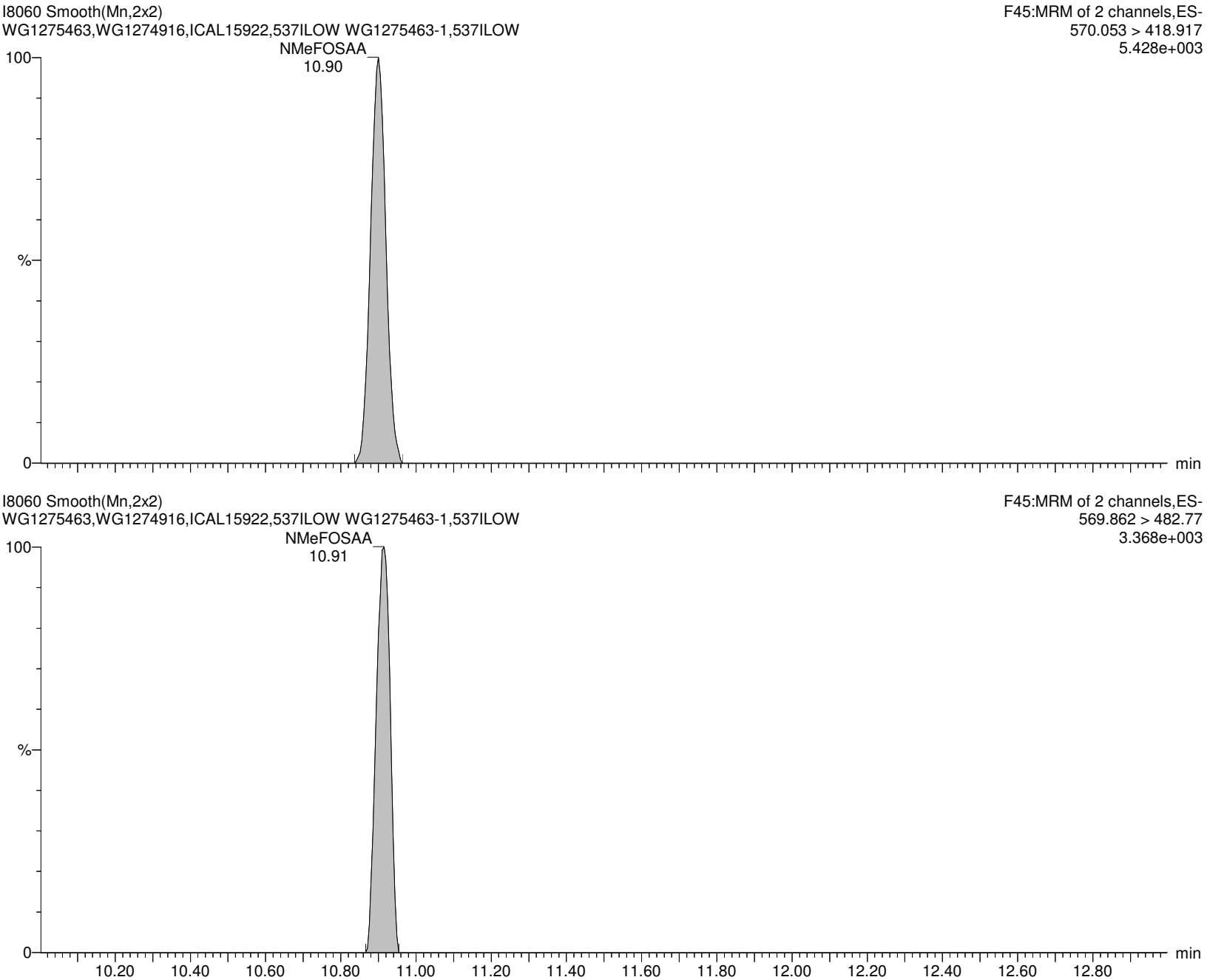


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, August 22, 2019 10:11:46 Eastern Daylight Time
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Name: I8060
ID: WG1275463-1,537ILOW
Date: 22-Aug-2019
Time: 09:43:11
Description: WG1275463,WG1274916,ICAL15922,537ILOW
User: LCMS02:JW
Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
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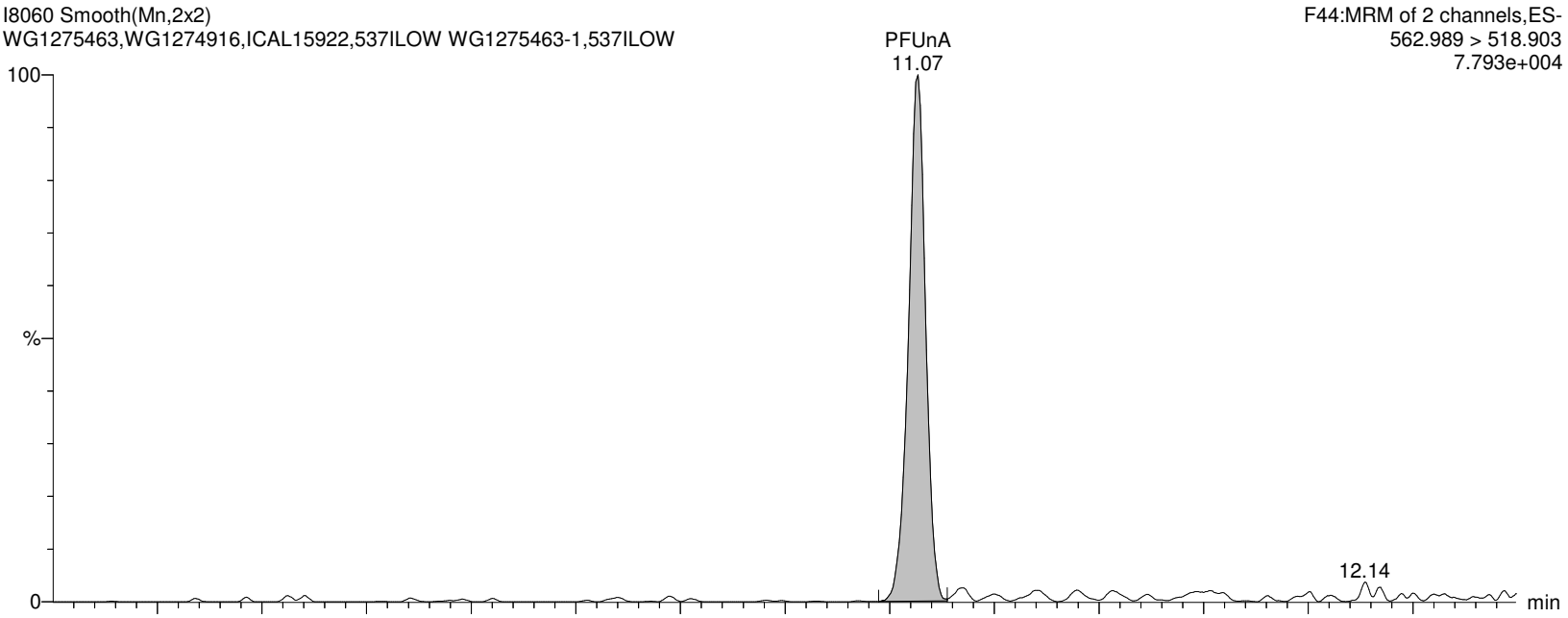


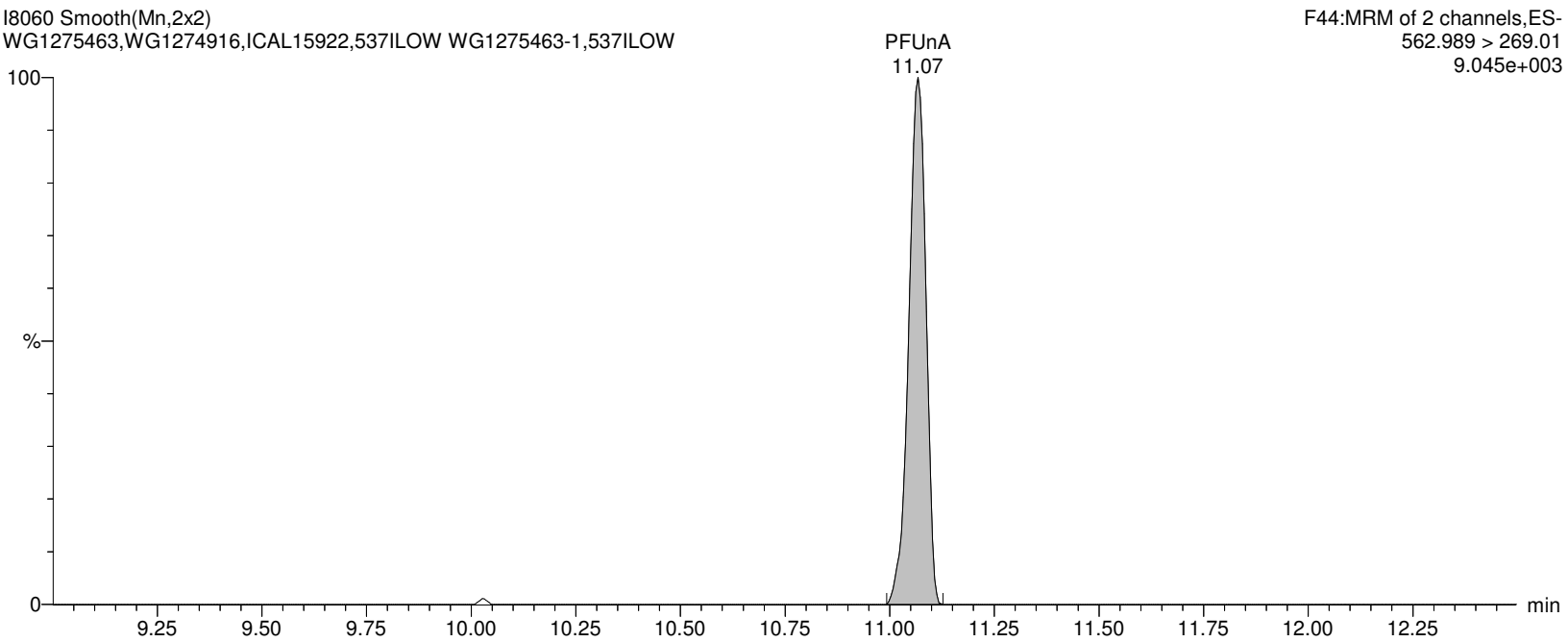
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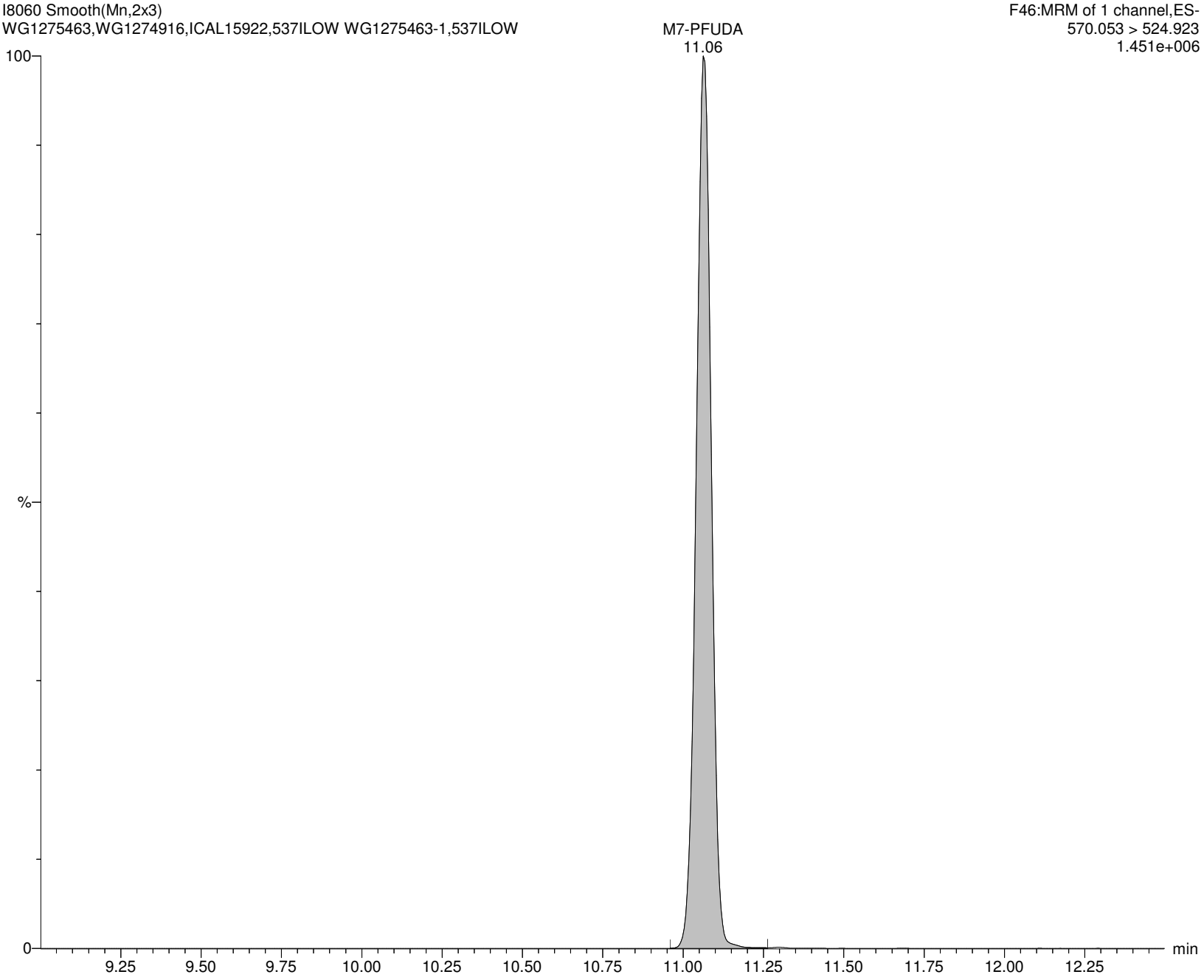


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M7-PFUDA

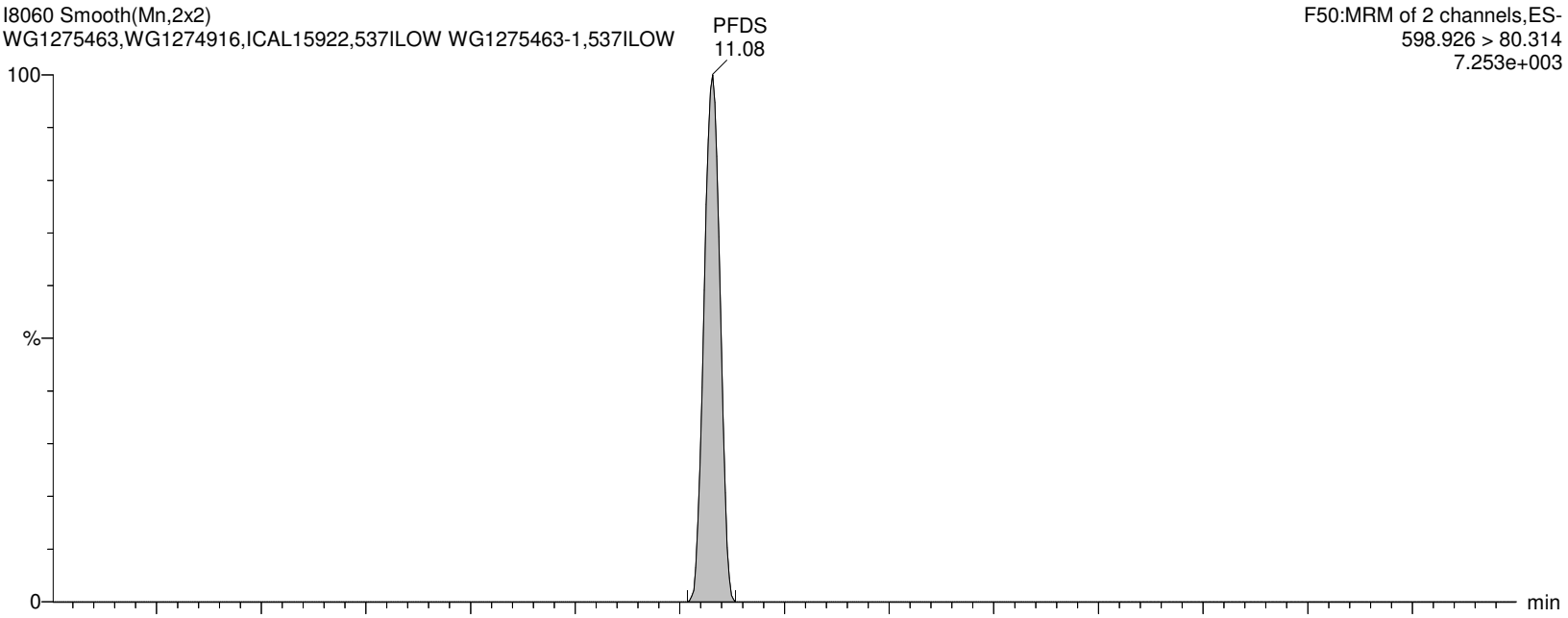


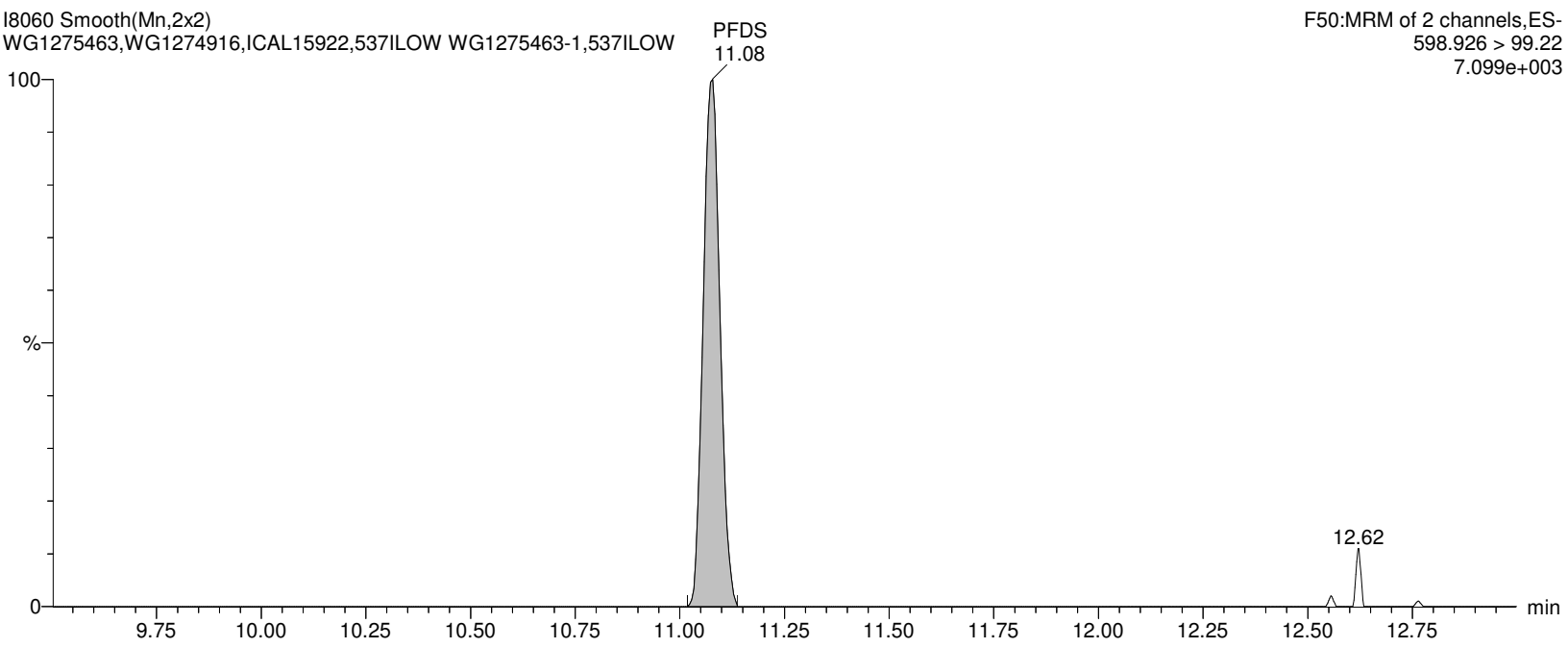
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PFDS



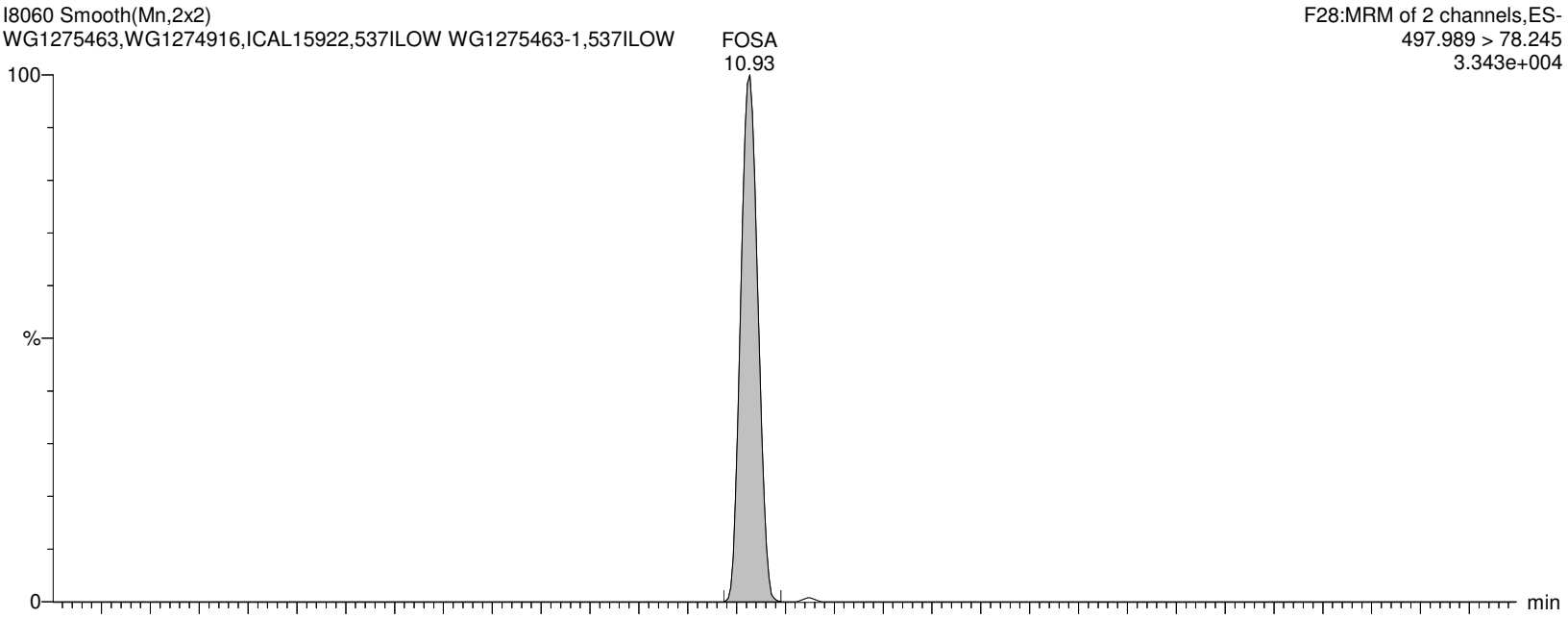


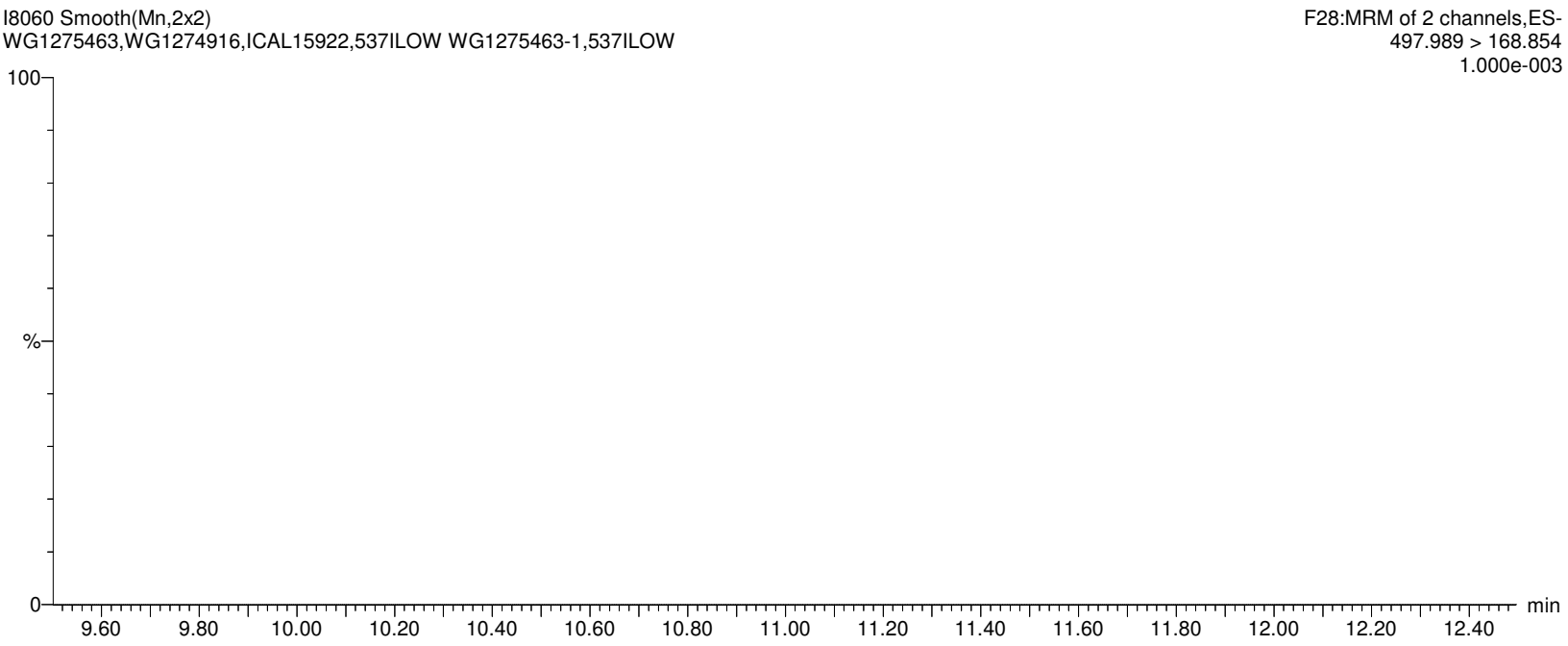
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FOSA



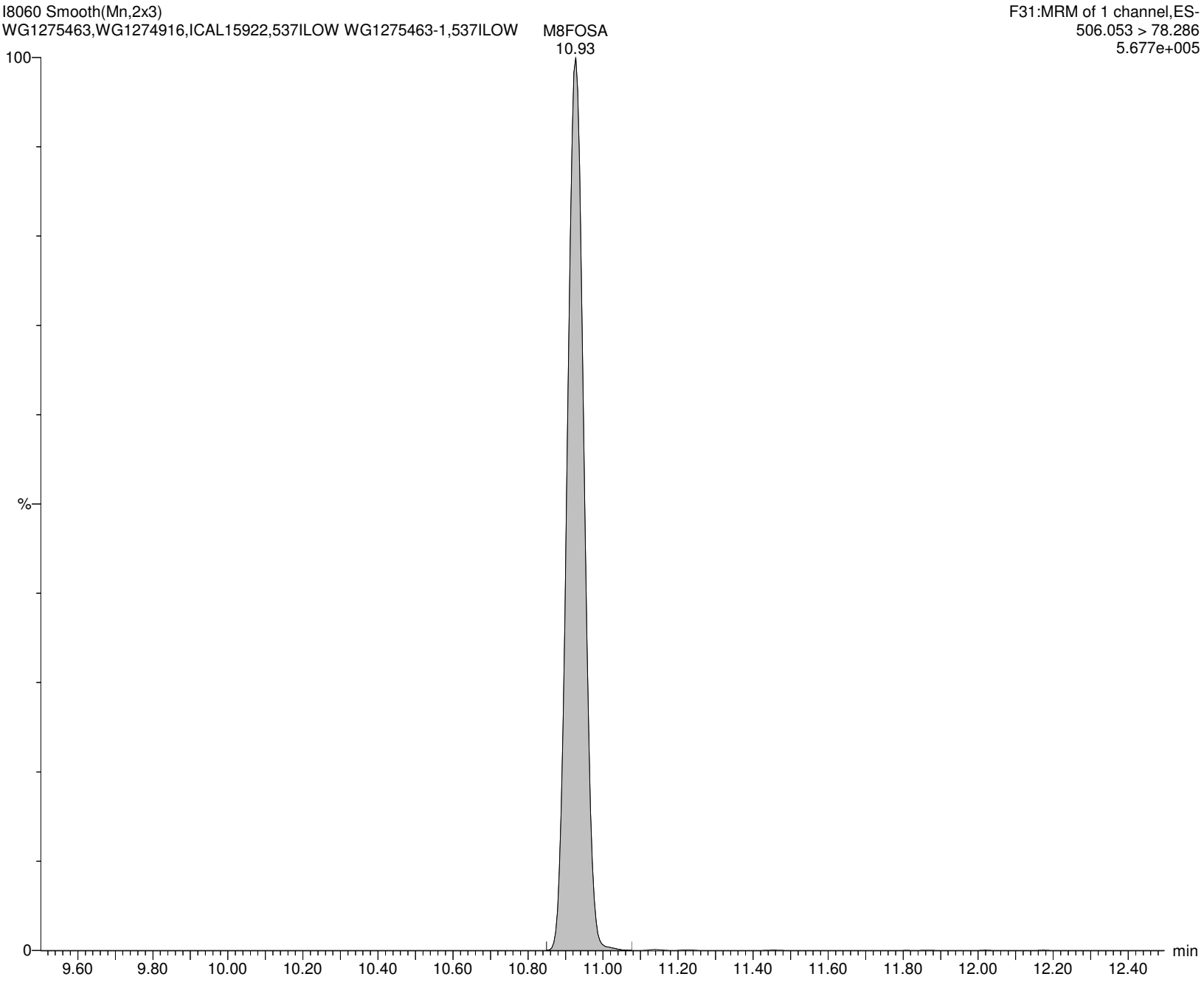


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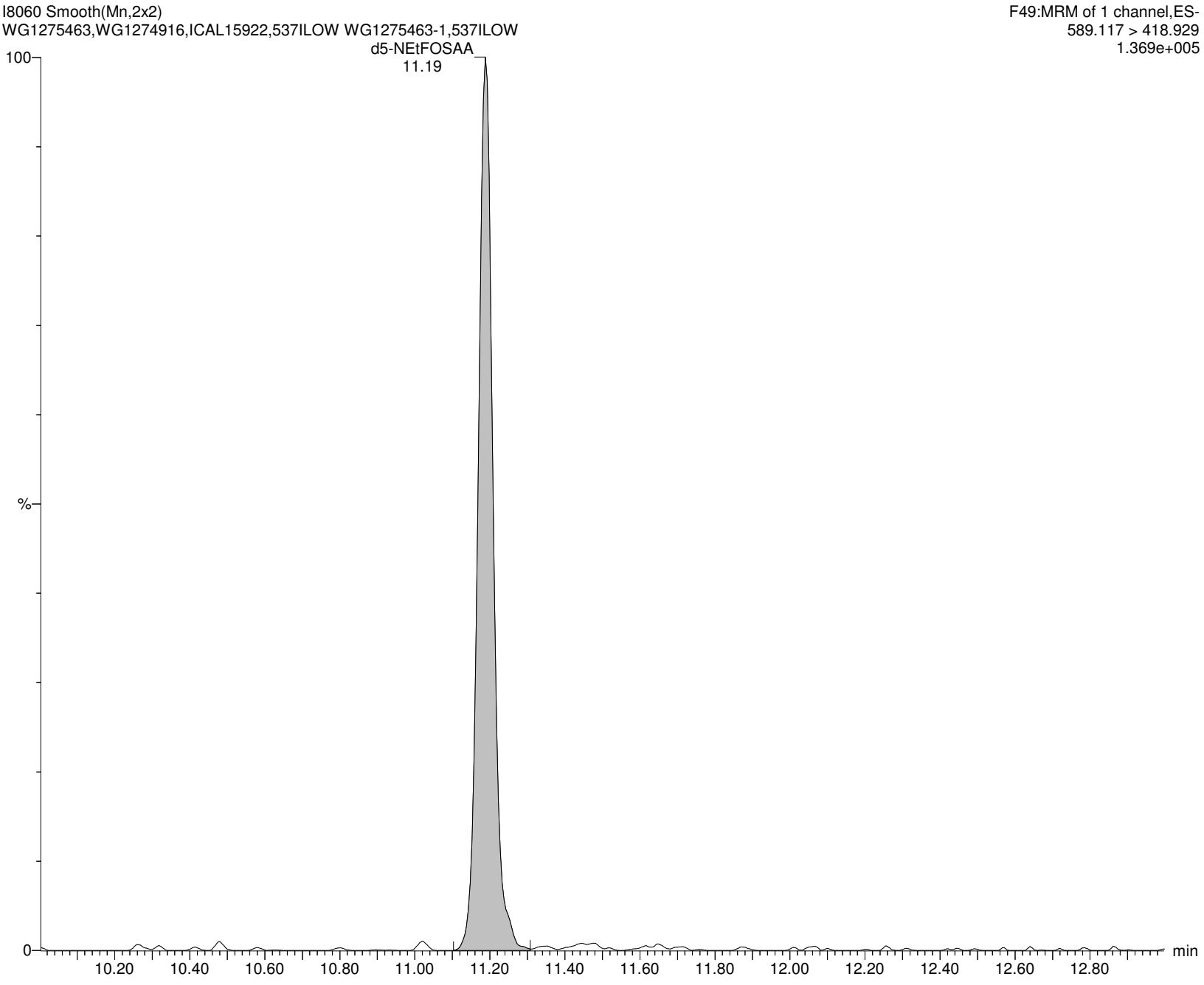


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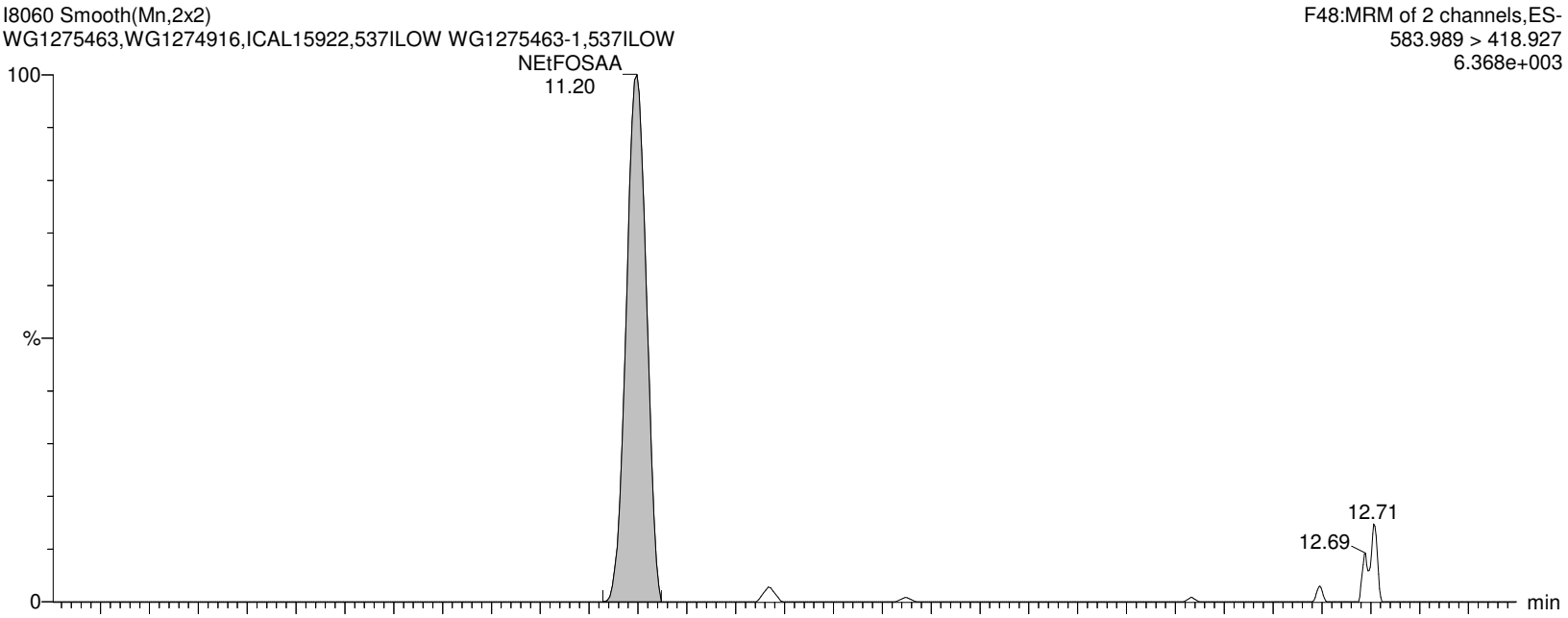


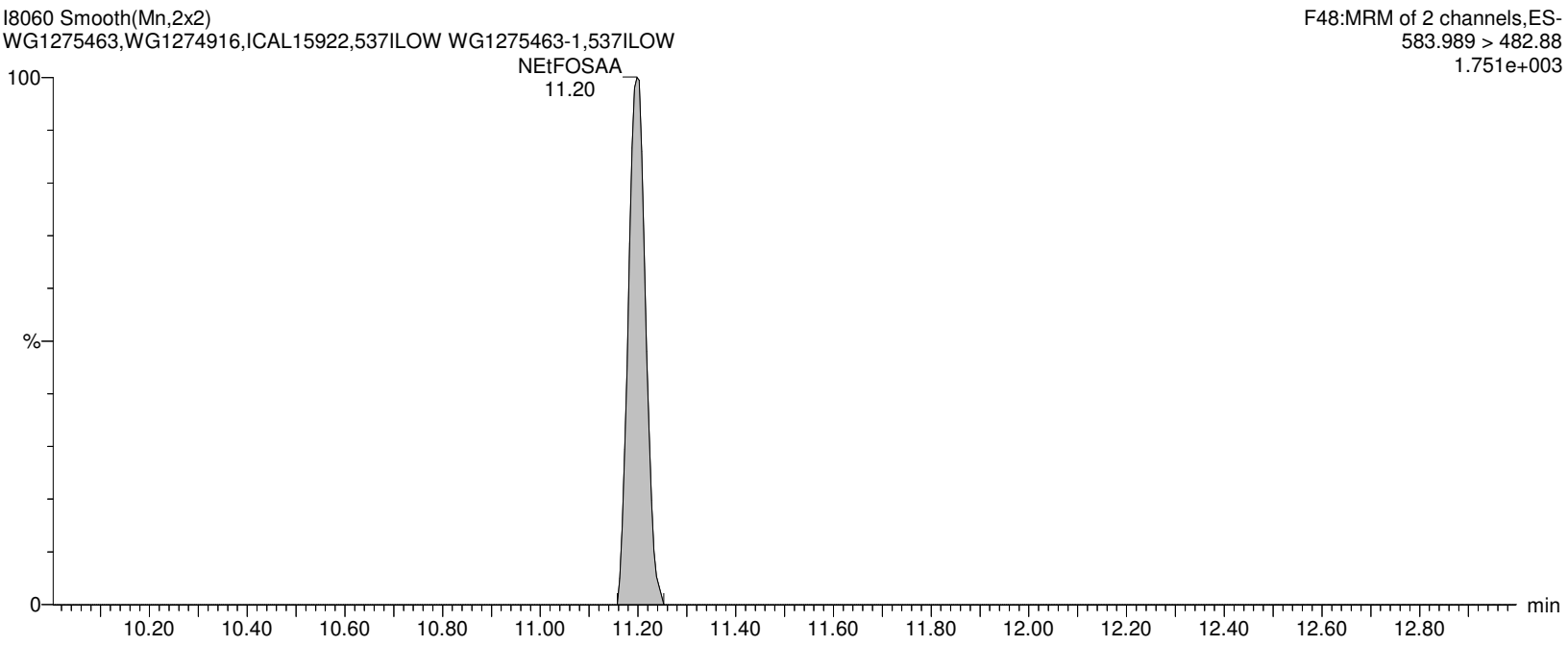
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NEtFOSAA



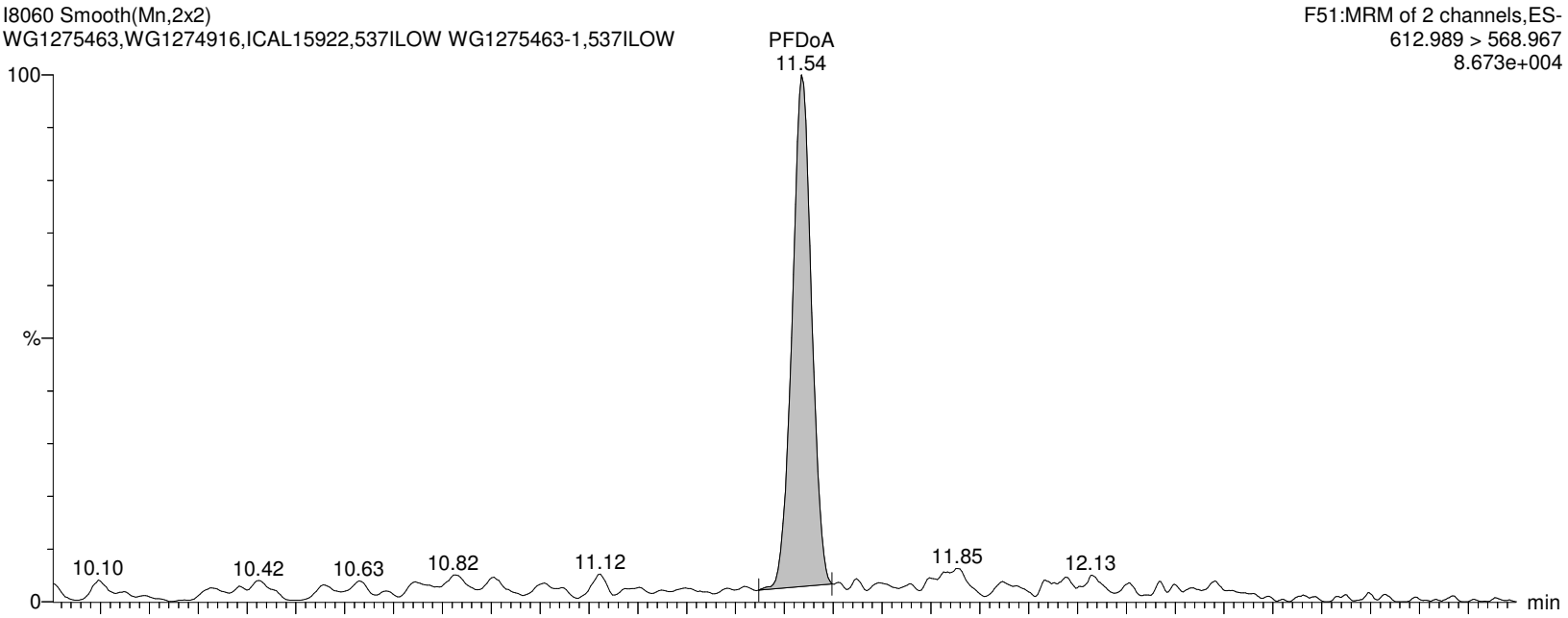


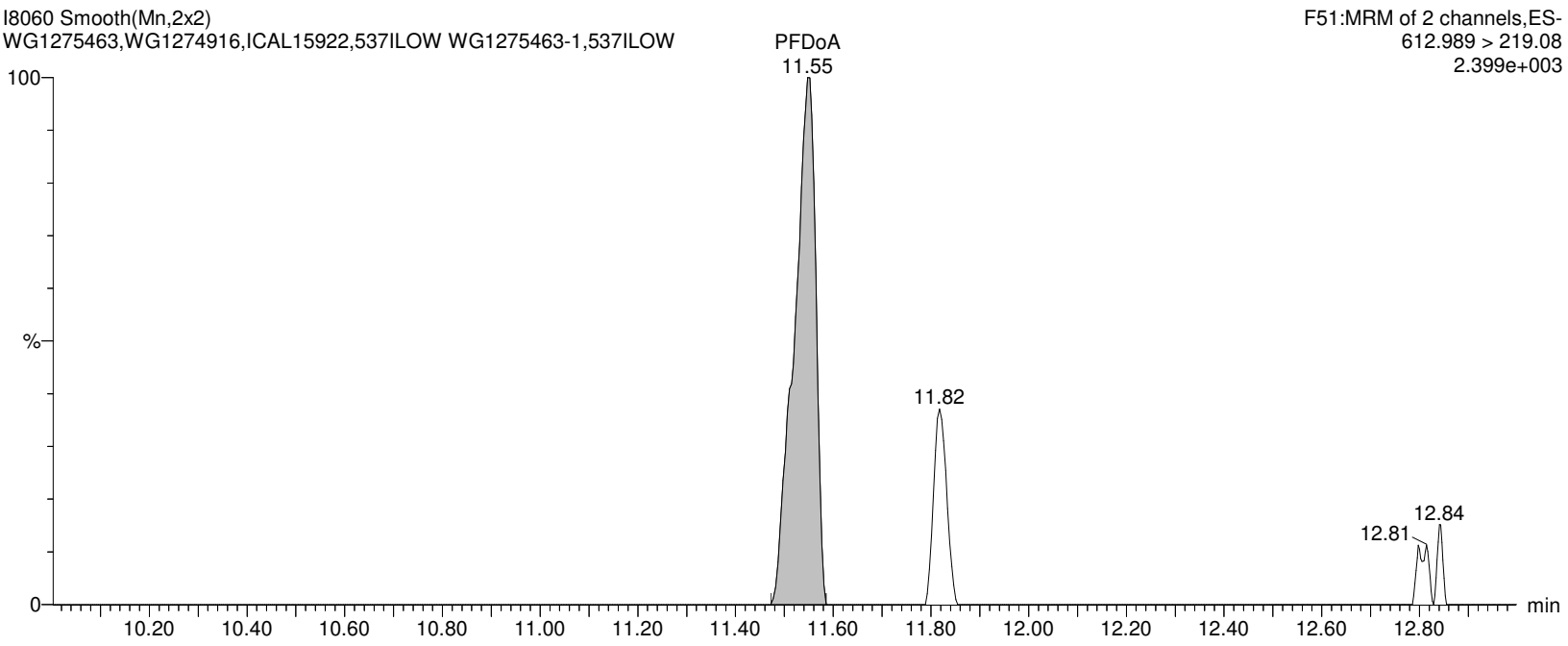
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PFDoA



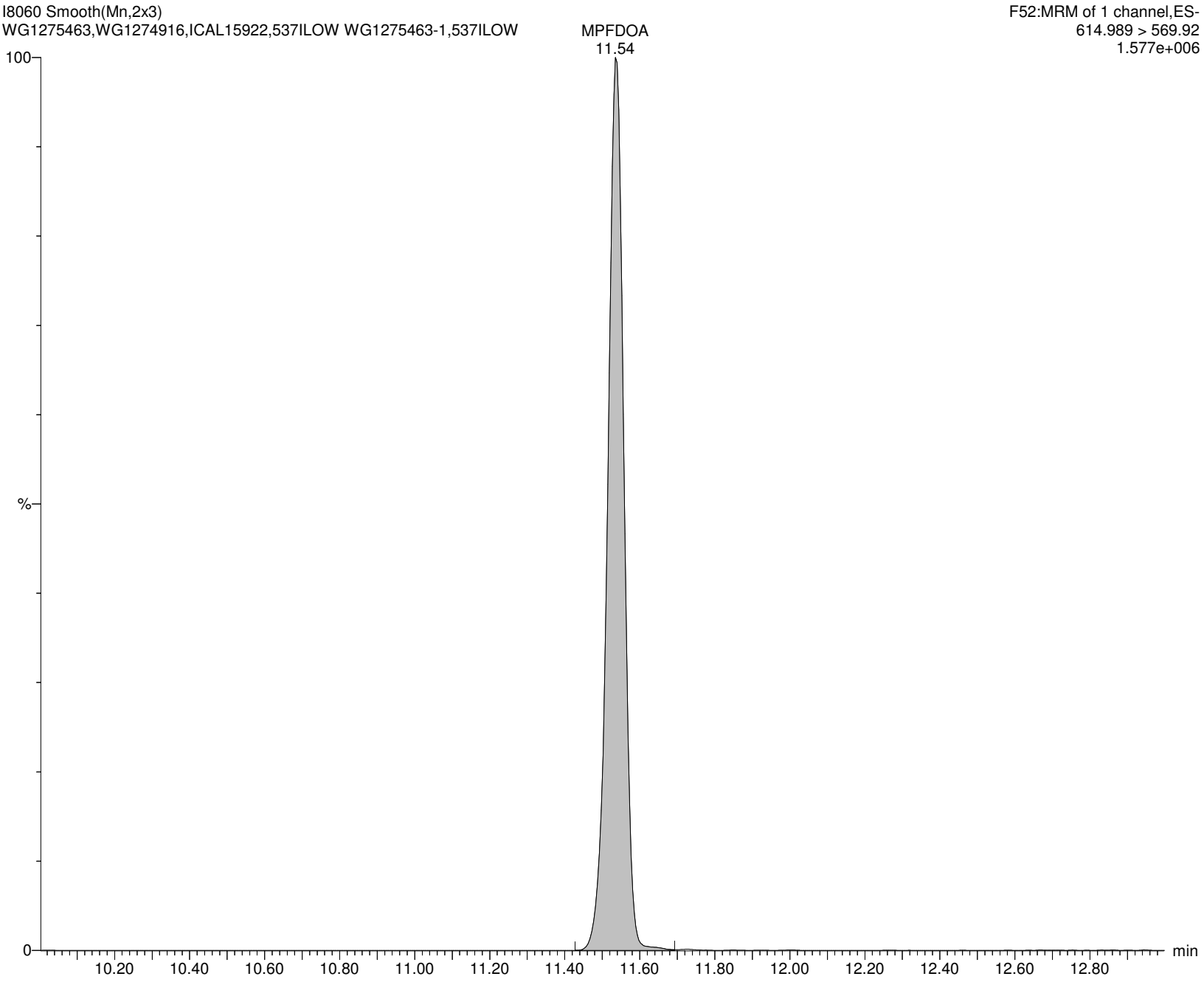


all concentration units in (ng/mL)

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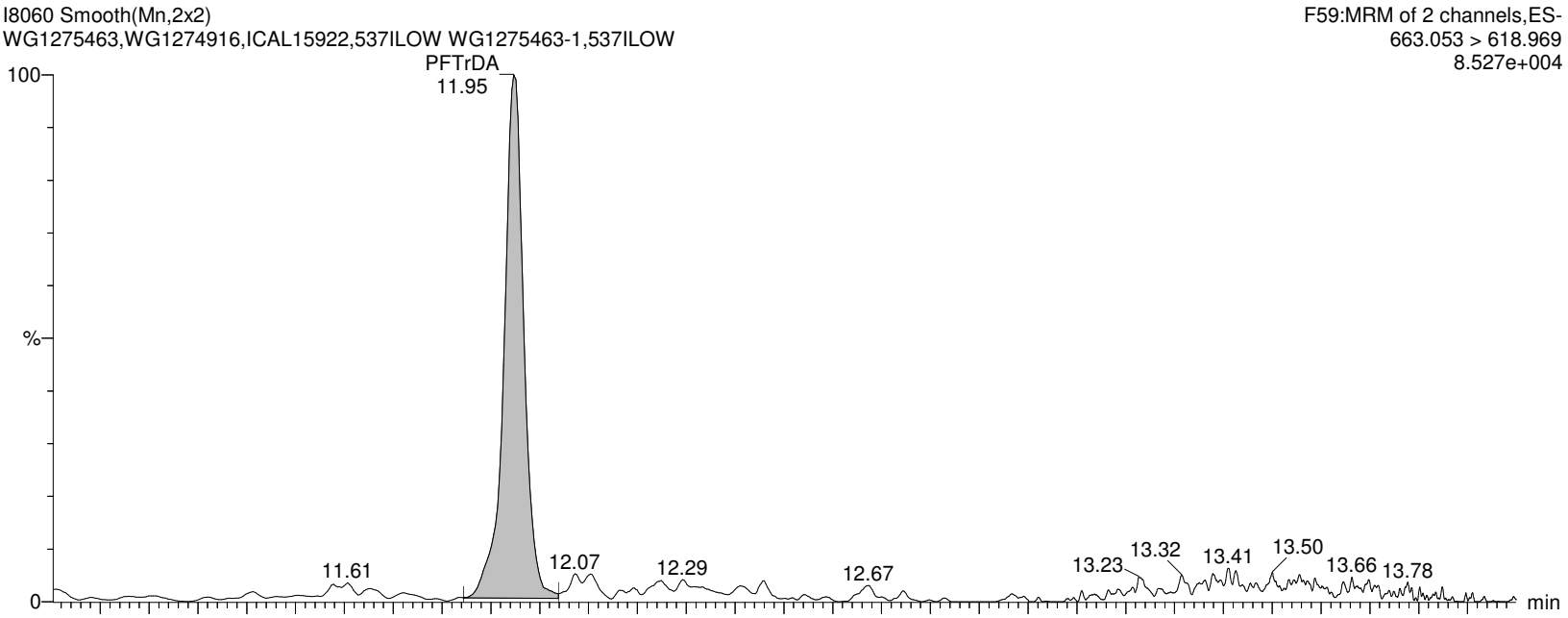


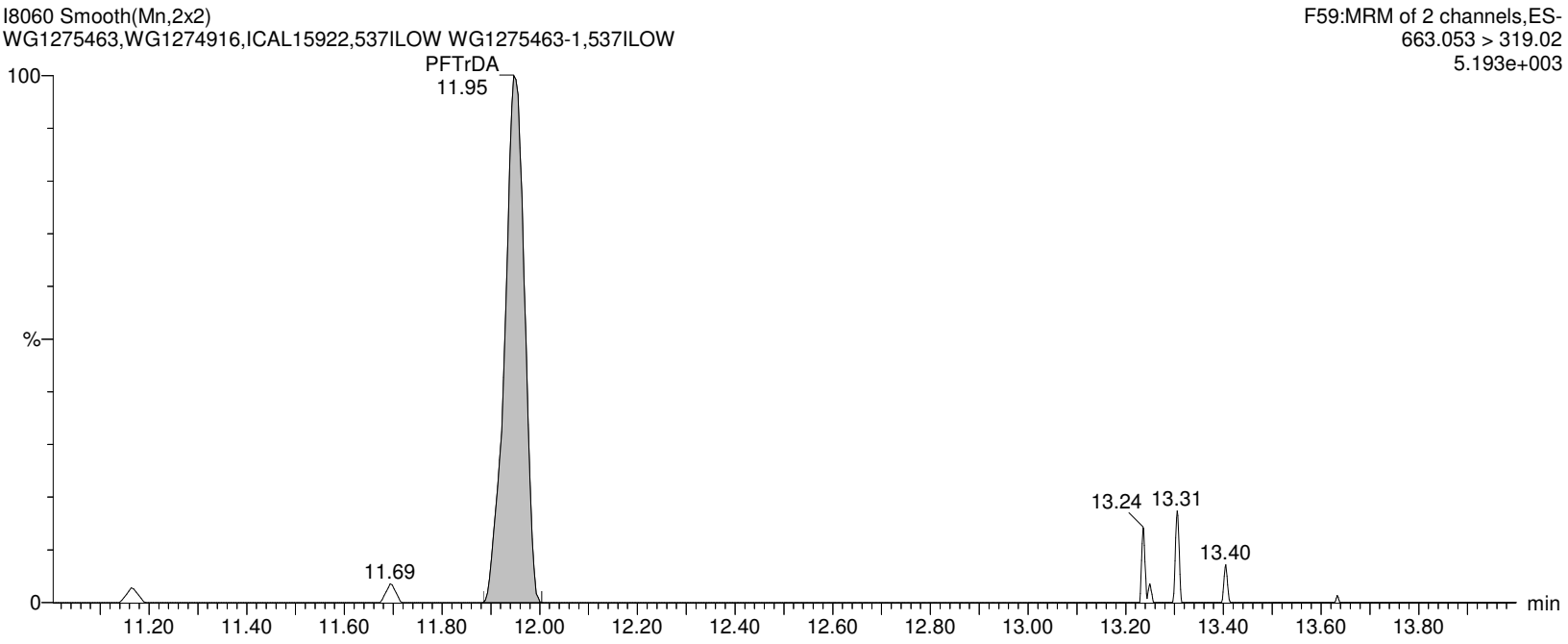
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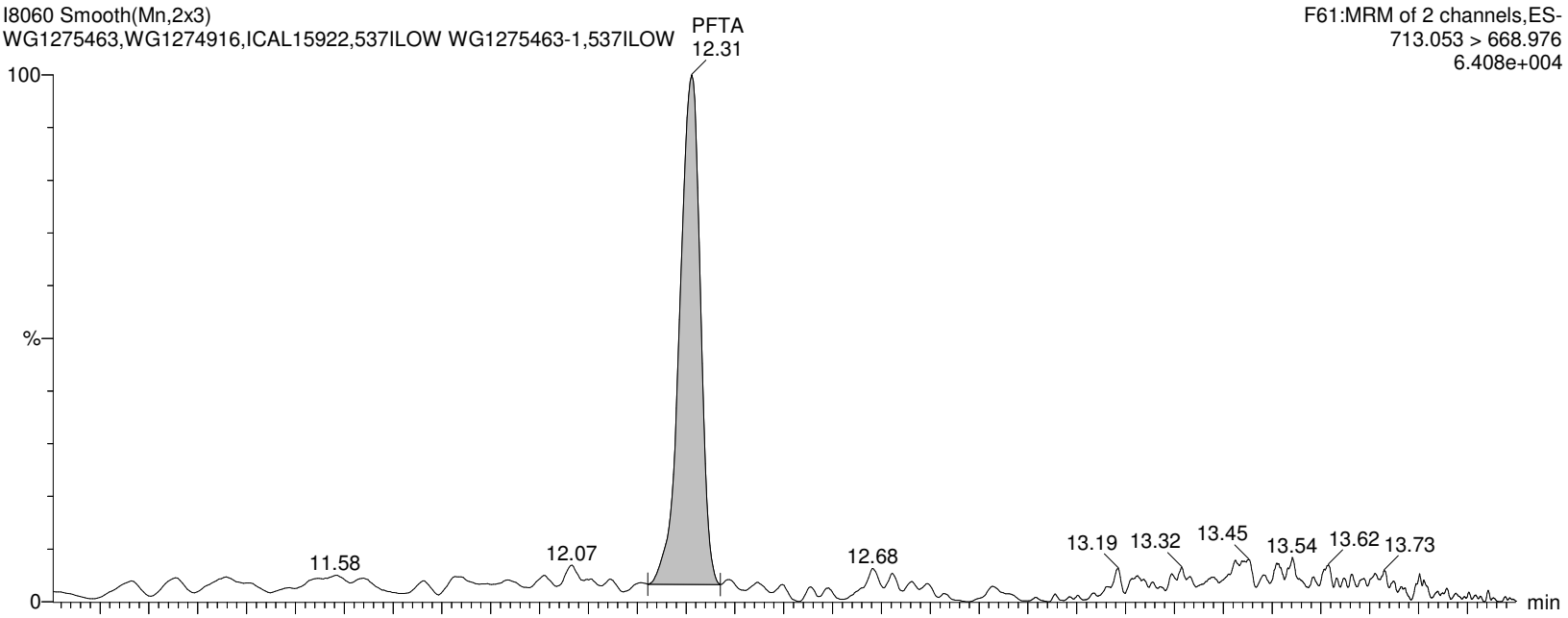


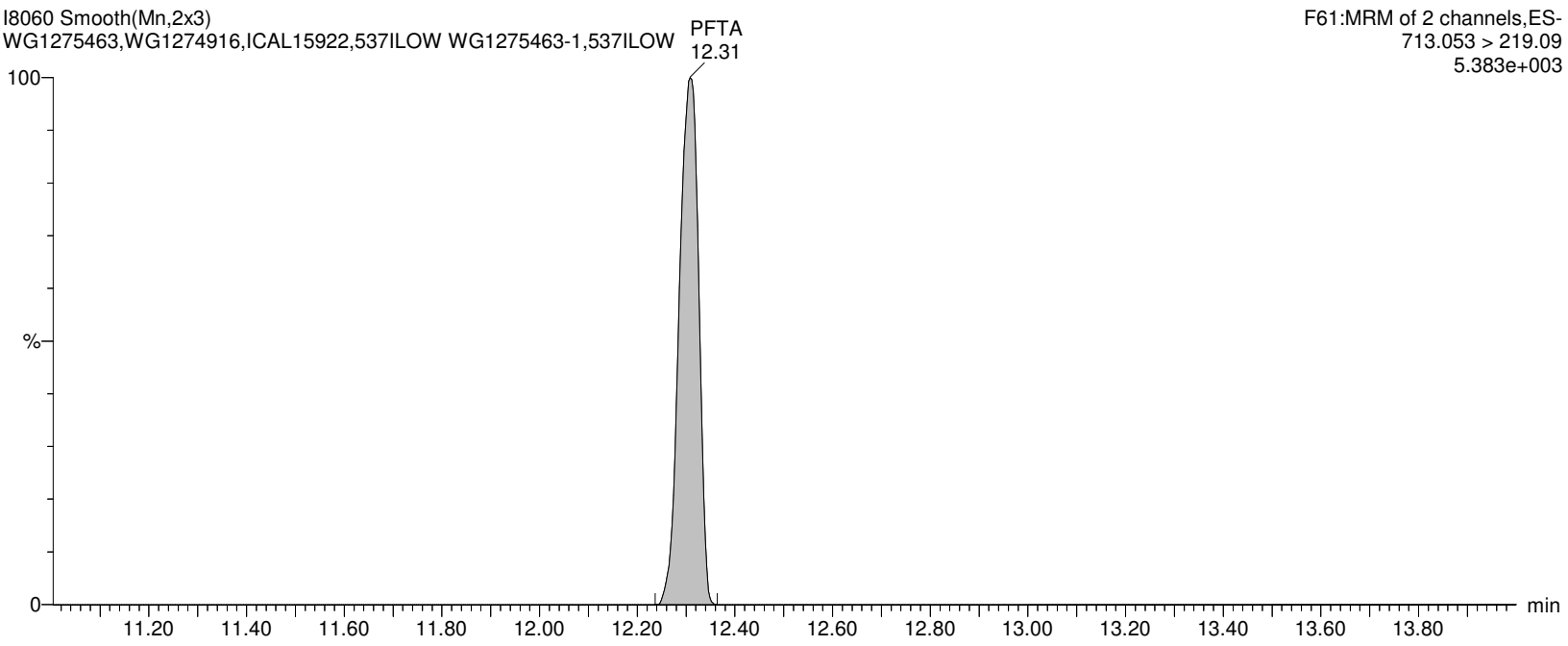
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PFTA



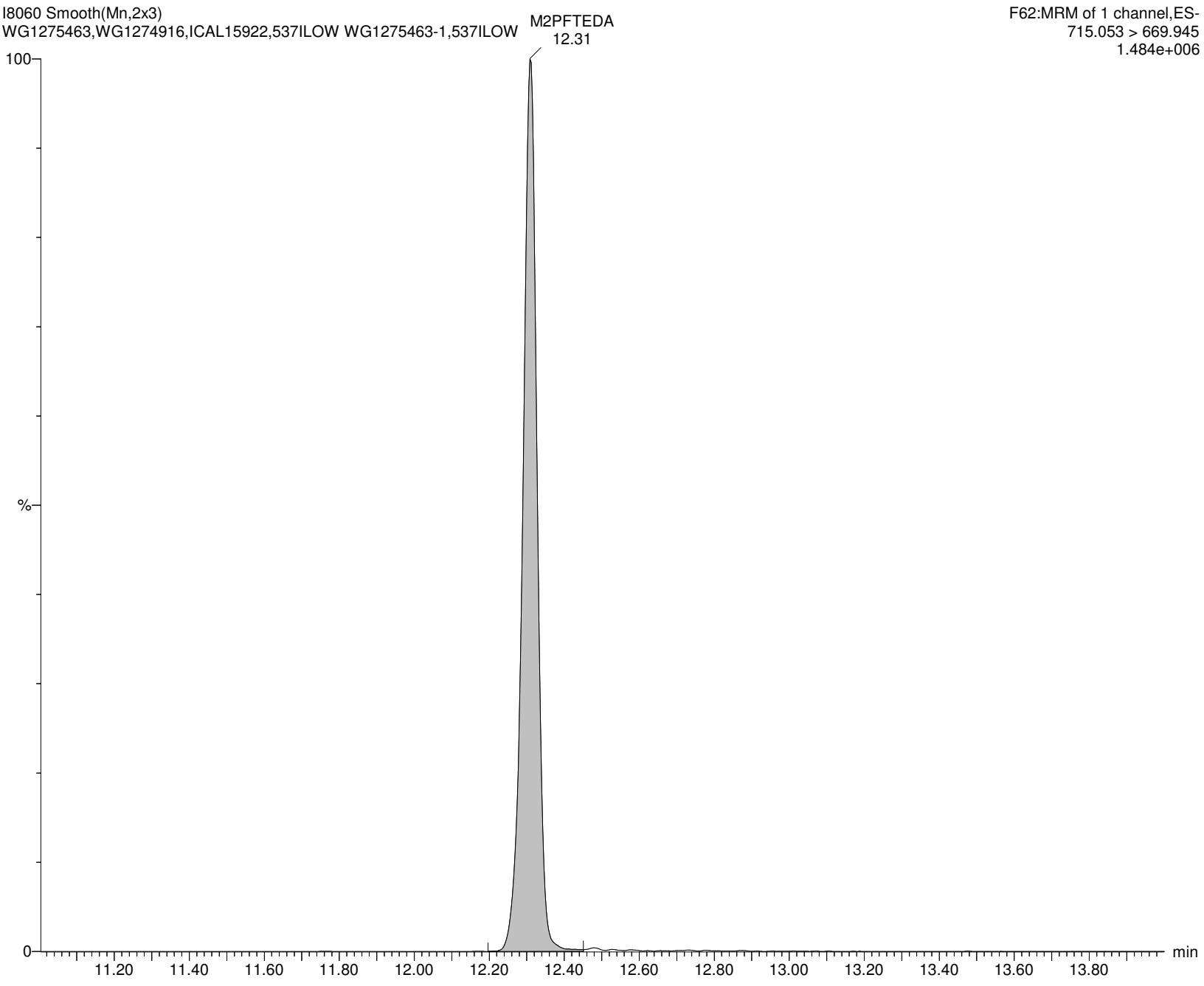


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M2PFTEDA



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Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
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Printed: Thursday, August 22, 2019 13:33:34 Eastern Daylight Time

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Time: 13:06:58
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	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.09	212.926 > 169.111	31293		9.607		na	96.1
2	M3PFBA	INT STD	2.09	215.926 > 172.122	35312		9.130		na	91.3
3	MPFBA	INT STD	2.09	216.926 > 172.137	35798		9.040		na	90.4
4	PFPeA	2706-90-3	4.98	262.926 > 219.002	51486		8.816		na	88.2
5	M5PFPEA	INT STD	4.97	267.989 > 223.081	56913		10.154		na	101.5
6	PFBS	375-73-5	5.64	298.926 > 79.923	9937		7.033	1.92	YES	79.5
7	M3PFBS	INT STD	5.64	301.989 > 80.254	9495		8.420		na	84.2
8	4:2FTS	757124-72-4	6.82	326.926 > 306.957	2779		9.525	2.03	NO	101.9
9	M2-4:2FTS	INT STD	6.82	329.117 > 309.079	2879		4.261		na	42.6
10	PFHxA	307-24-4	6.90	312.989 > 269.028	69361		9.583	17.63	NO	95.8
11	M5PFHxA	INT STD	6.90	317.989 > 273.045	73221		8.683		na	86.8
12	PFPeS	2706-91-4	7.22	348.926 > 80.251	9037		7.969	1.93	NO	84.8
13	PFHpA	375-85-9	8.19	362.926 > 319.014	89481		9.630	5.31	NO	96.3
14	M4PFHpA	INT STD	8.19	366.926 > 321.979	93193		8.674		na	86.7
15	br-PFHxS	355-46-4	8.12	398.926 > 80.295	1393	M5	2.252	3.94	NO	132.5
16	L-PFHxS	355-46-4	8.36	398.926 > 80.295	6466		7.503	1.48	YES	101.4
17	PFHxS	355-46-4		398.926 > 80.295	7859		9.755		na	
18	M3PFHxS	INT STD	8.36	401.926 > 80.317	6363		9.104		na	91.0
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1	9.15	412.989 > 368.9	82906		9.294	8.88	NO	92.9
21	M2PFOA	INT STD	9.14	415.032 > 369.968	100025		10.971		na	109.7
22	PFOA	335-67-1		412.989 > 368.9	82906		9.294		na	
23	M8PFOA	INT STD	9.14	420.989 > 375.979	89868		9.043		na	90.4
24	6:2FTS	27619-97-2	9.10	426.989 > 406.921	1859		9.216	5.78	NO	97.0
25	M2-6:2FTS	INT STD	9.10	428.989 > 408.917	2563		4.209		na	42.1
26	PFHpS	375-92-8	9.24	448.926 > 80.257	5023		7.858	0.92	NO	82.7
27	PFNA	375-95-1	9.90	462.989 > 418.931	73539		9.089	4.16	NO	90.9
28	M9PFNA	INT STD	9.90	472.053 > 426.947	89184		9.691		na	96.9
29	br-PFOS	1763-23-1	9.77	498.989 > 80.294	2133	M5	2.160	5.67	NO	108.0
30	L-PFOS	1763-23-1	9.96	498.989 > 80.294	6280		6.839	1.64	NO	93.7
31	PFOS	1763-23-1		498.989 > 80.294	8413		8.999		na	
32	M4PFOS	INT STD	9.95	503.032 > 80.306	8472		11.391		na	113.9
33	M8PFOS	INT STD	9.96	507.053 > 80.294	8910		9.764		na	97.6
34	PFDA	335-76-2	10.53	513.053 > 468.906	73332		9.823	5.94	NO	98.2
35	M2PFDA	INT STD	10.53	515.053 > 469.934	83251		11.640		na	116.4
36	M6PFDA	INT STD	10.53	519.053 > 473.931	82568		8.870		na	88.7
37	8:2FTS	39108-34-4	10.52	526.926 > 506.818	1392		8.770		na	91.4
38	M2-8:2FTS	INT STD	10.52	529.053 > 508.945	1502		4.494		na	44.9
39	PFNS	68259-12-1	10.56	548.989 > 80.249	7491		8.466	1.41	NO	88.2

all concentration units in (ng/mL)

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Last Altered: Thursday, August 22, 2019 13:33:10 Eastern Daylight Time
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ID: WG1275463-2,537IMED
Name: I8071
Date: 22-Aug-2019
Time: 13:06:58
Description: WG1275463,WG1274916,ICAL15922,537IMED
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.91	573.096 > 418.987	6995		7.573		na	75.7
41	NMeFOSAA	2355-31-9	10.91	570.053 > 418.917	6920		9.740	2.60	NO	97.4
42	PFUnA	2058-94-8	11.07	562.989 > 518.903	71750		9.232	7.71	NO	92.3
43	M7-PFUDA	INT STD	11.07	570.053 > 524.923	75683		9.195		na	91.9
44	PFDS	335-77-3	11.08	598.926 > 80.314	5907		9.000	1.04	YES	93.3
45	FOSA	754-91-6	10.93	497.989 > 78.245	24682		7.725	268.26	NO	77.3
46	M8FOSA	INT STD	10.93	506.053 > 78.286	27821		10.042		na	100.4
47	d5-NEtFOSAA	INT STD	11.19	589.117 > 418.929	6259		7.478		na	74.8
48	NEtFOSAA	2991-50-6	11.20	583.989 > 418.927	6124		9.676	2.87	NO	96.8
49	PFDoA	307-55-1	11.54	612.989 > 568.967	73658		10.196	14.09	NO	102.0
50	MPFDOA	INT STD	11.54	614.989 > 569.92	75279		8.260		na	82.6
51	PFTrDA	72629-94-8	11.96	663.053 > 618.969	69653		10.268	12.29	NO	102.7
52	PFTA	376-06-7	12.31	713.053 > 668.976	58000		10.015	8.99	NO	100.2
53	M2PFTEDA	INT STD	12.31	715.053 > 669.945	66588		8.647		na	86.5

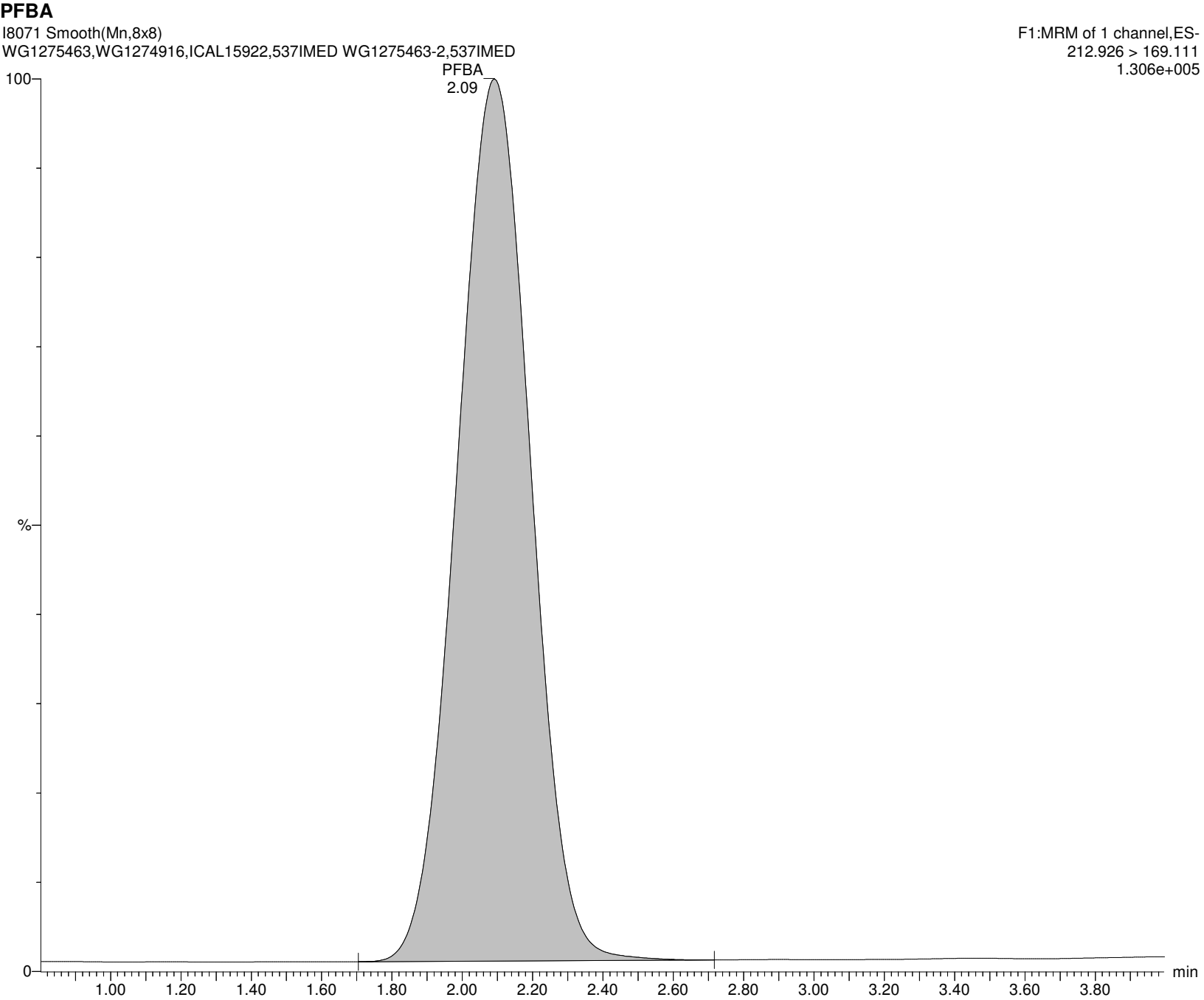
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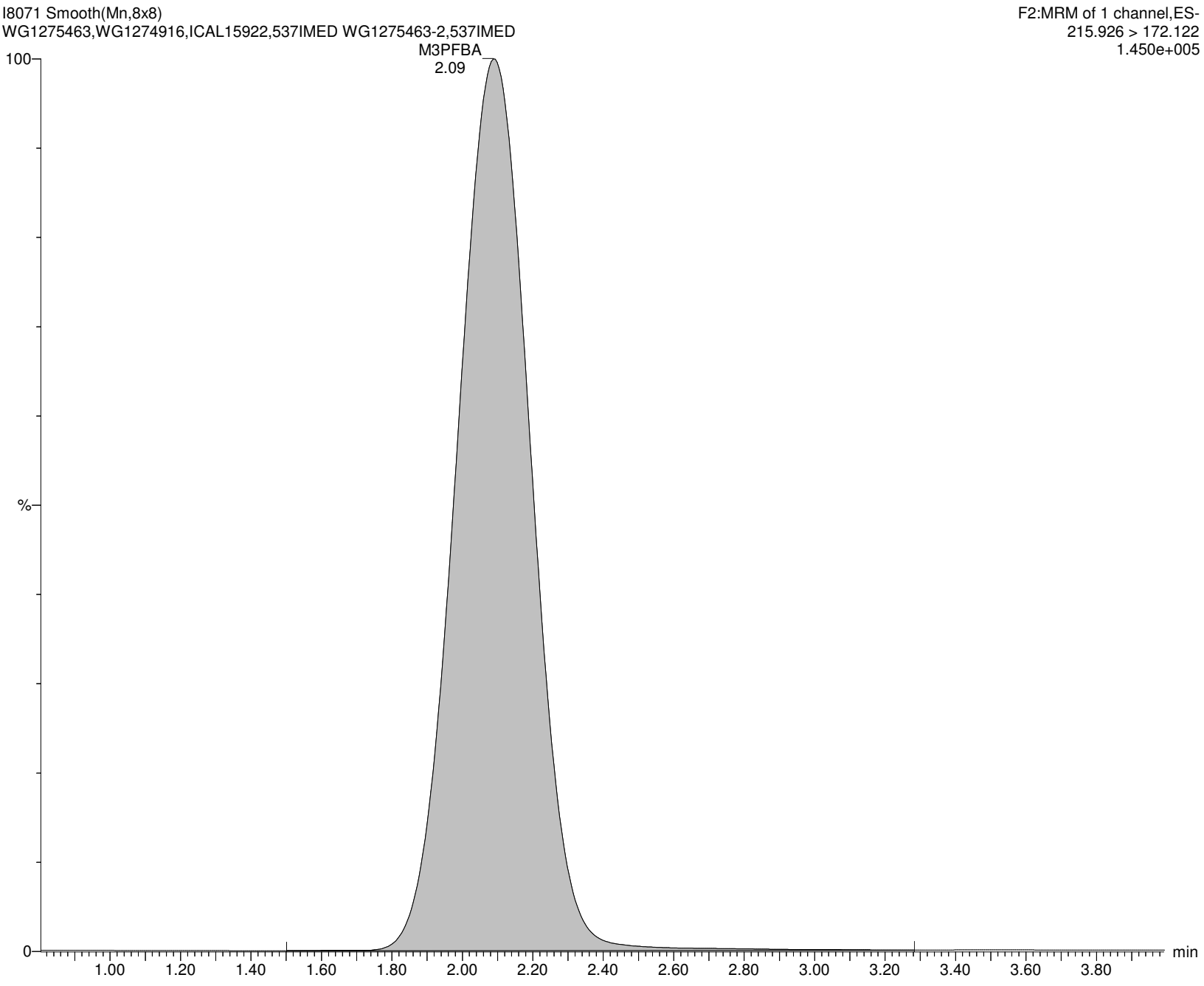


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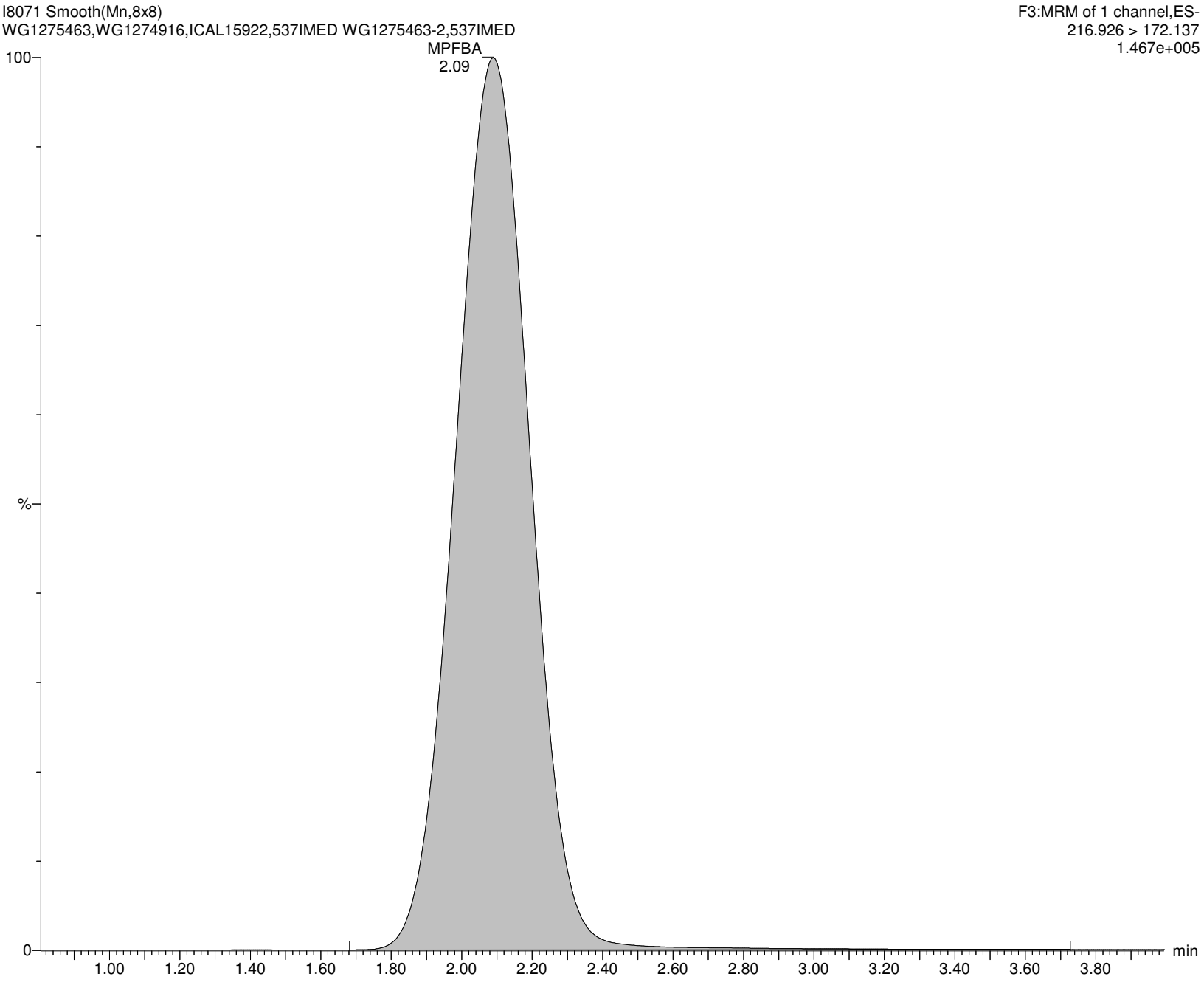


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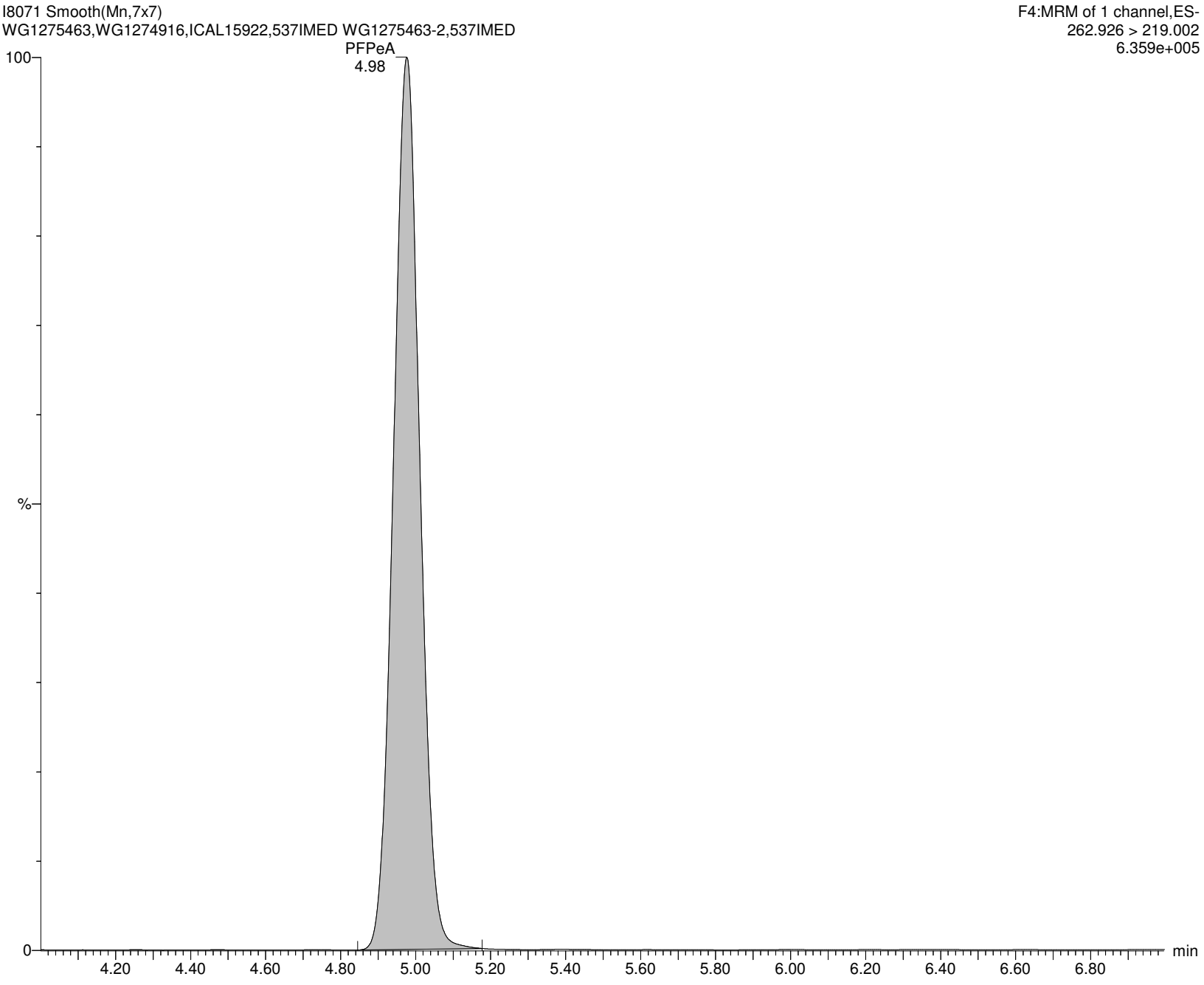


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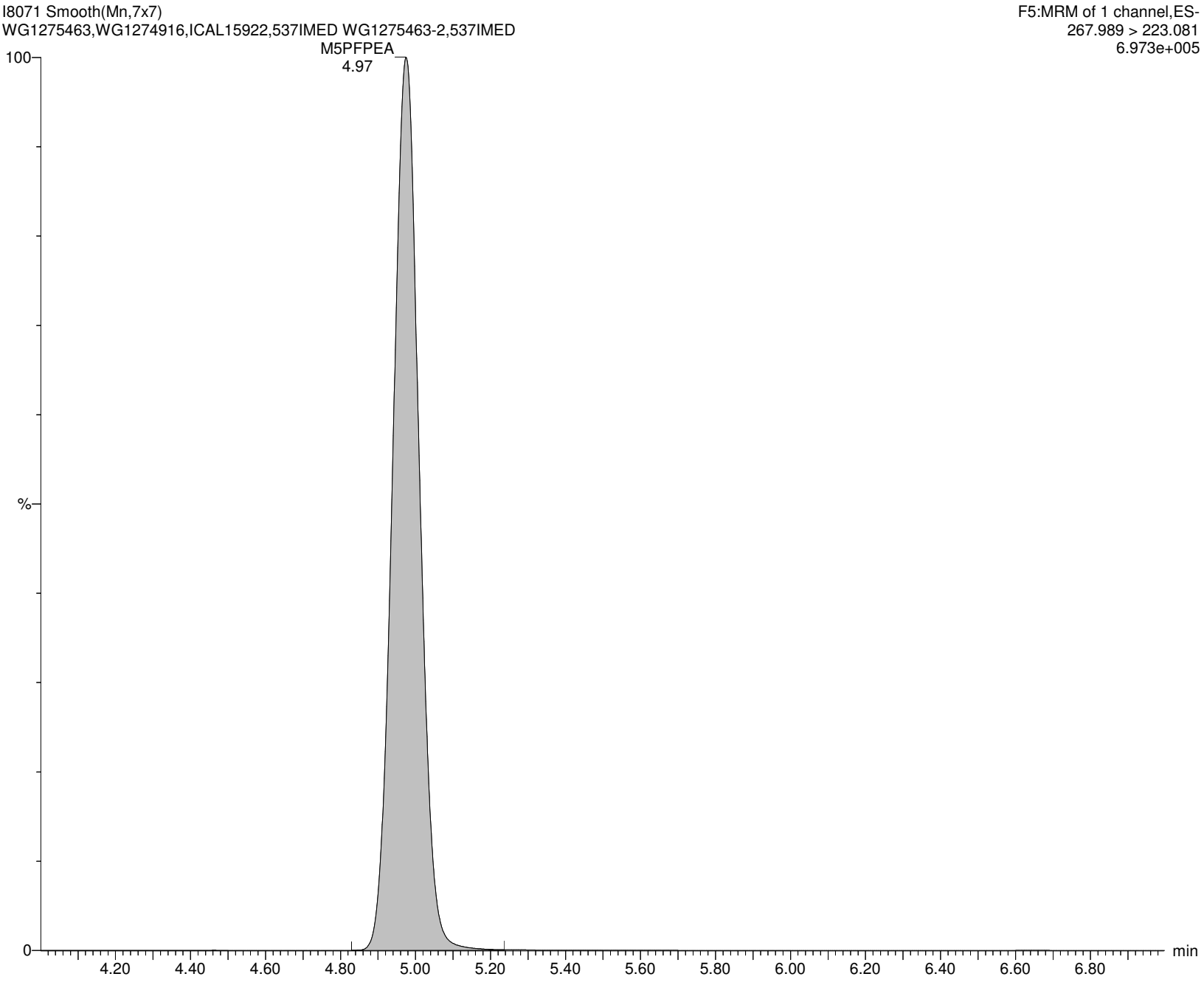


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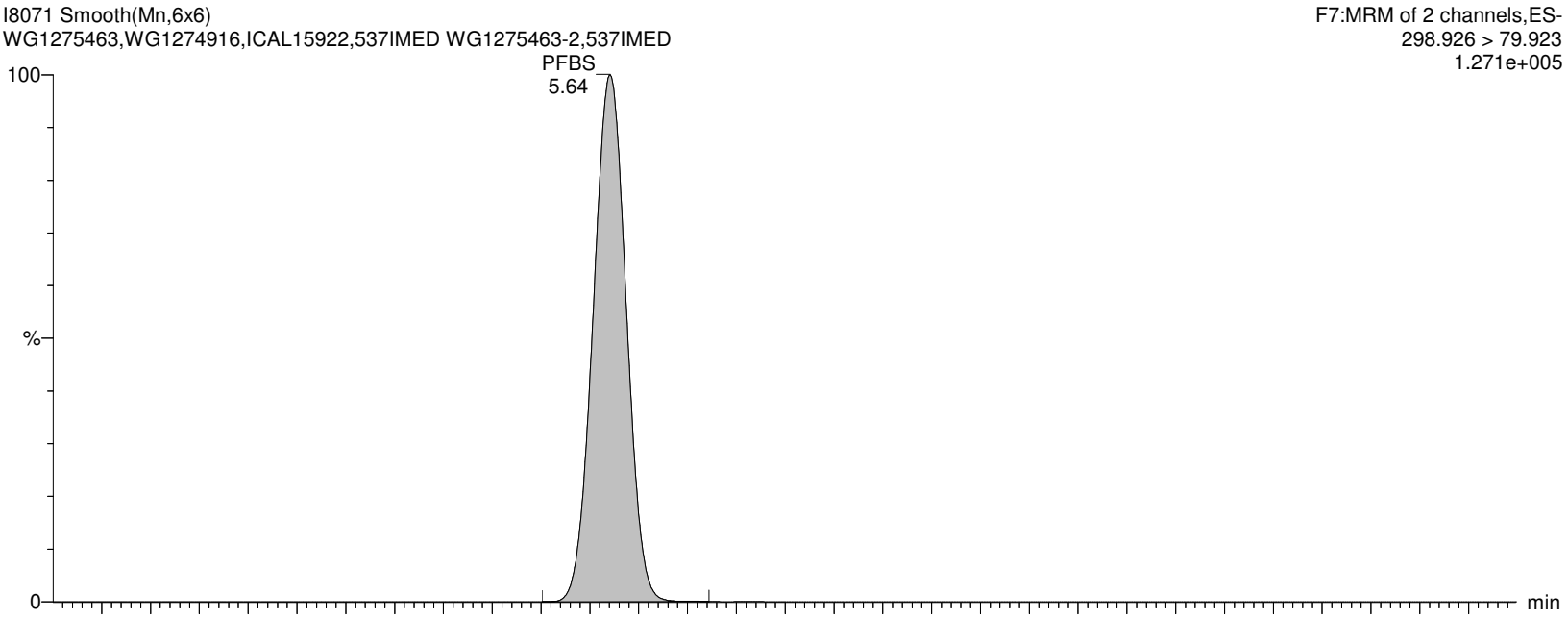


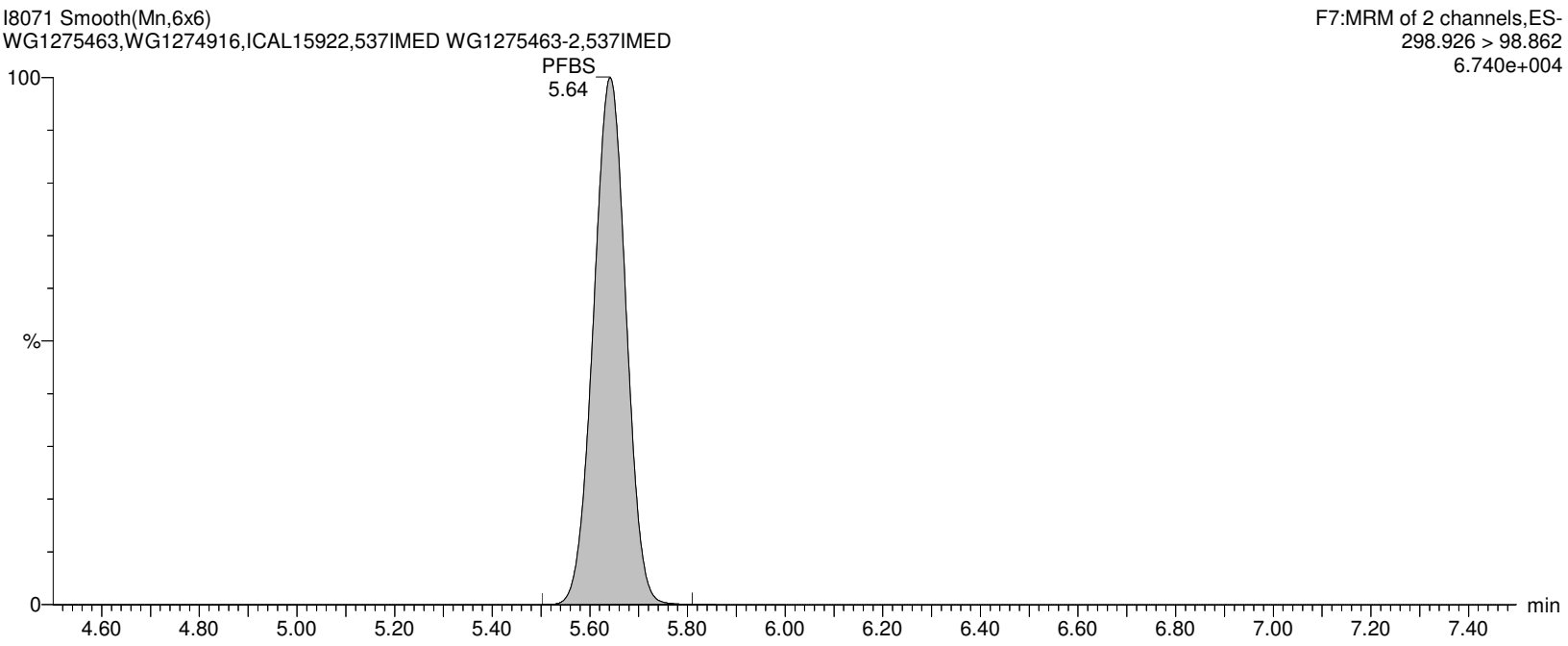
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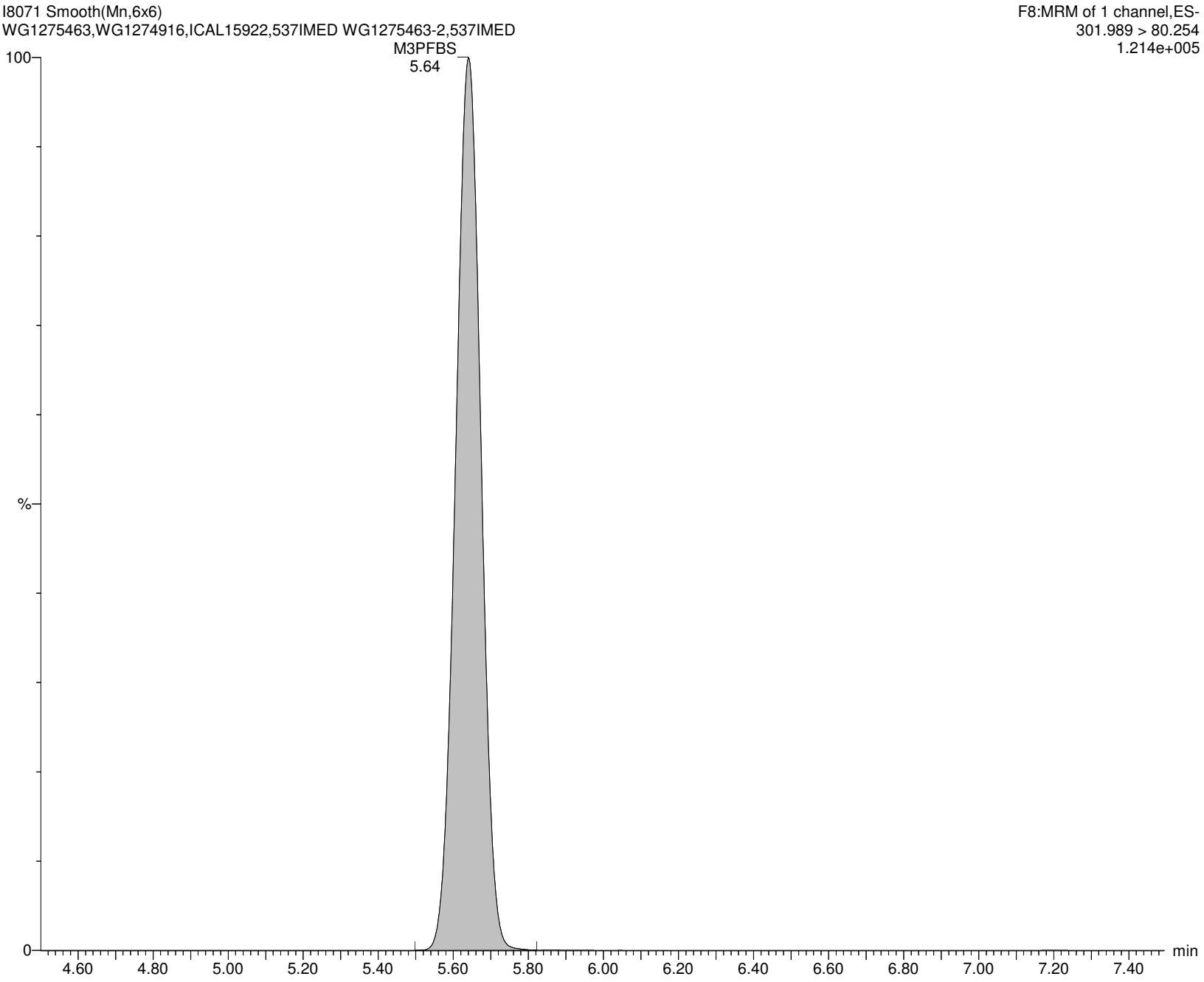


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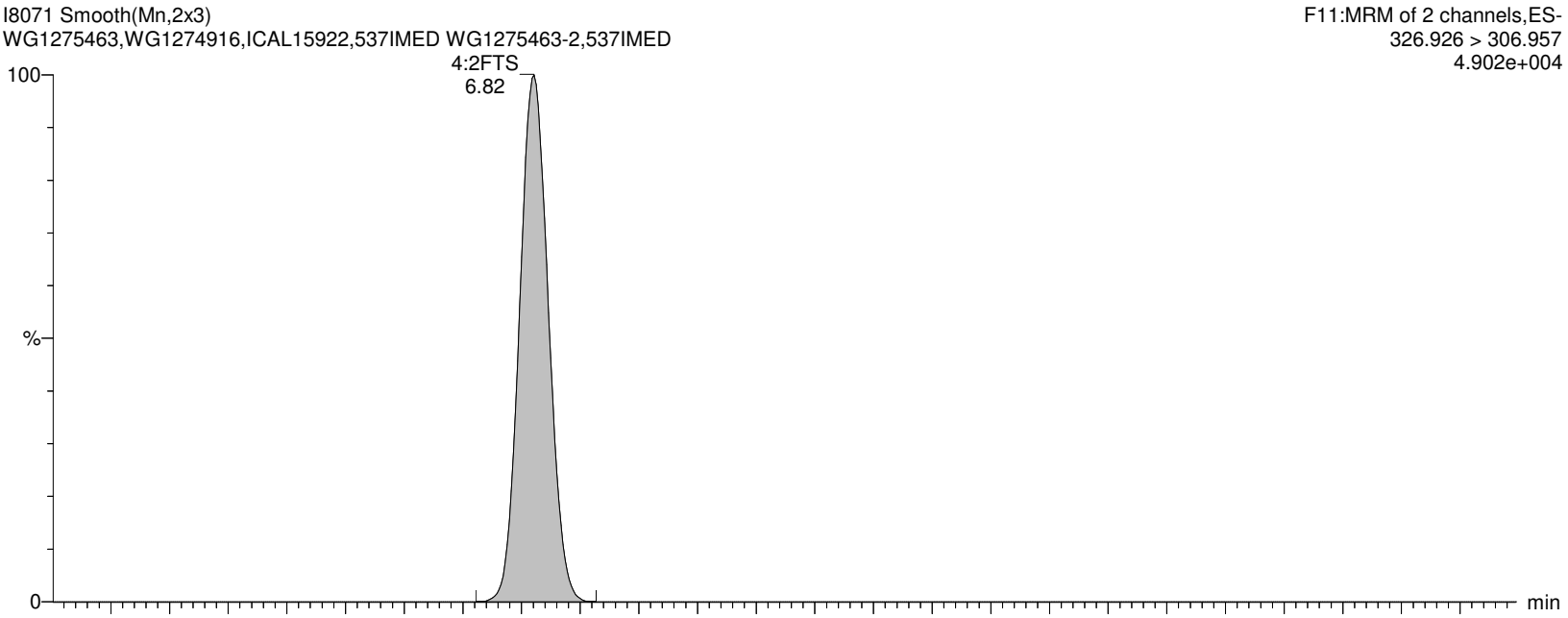


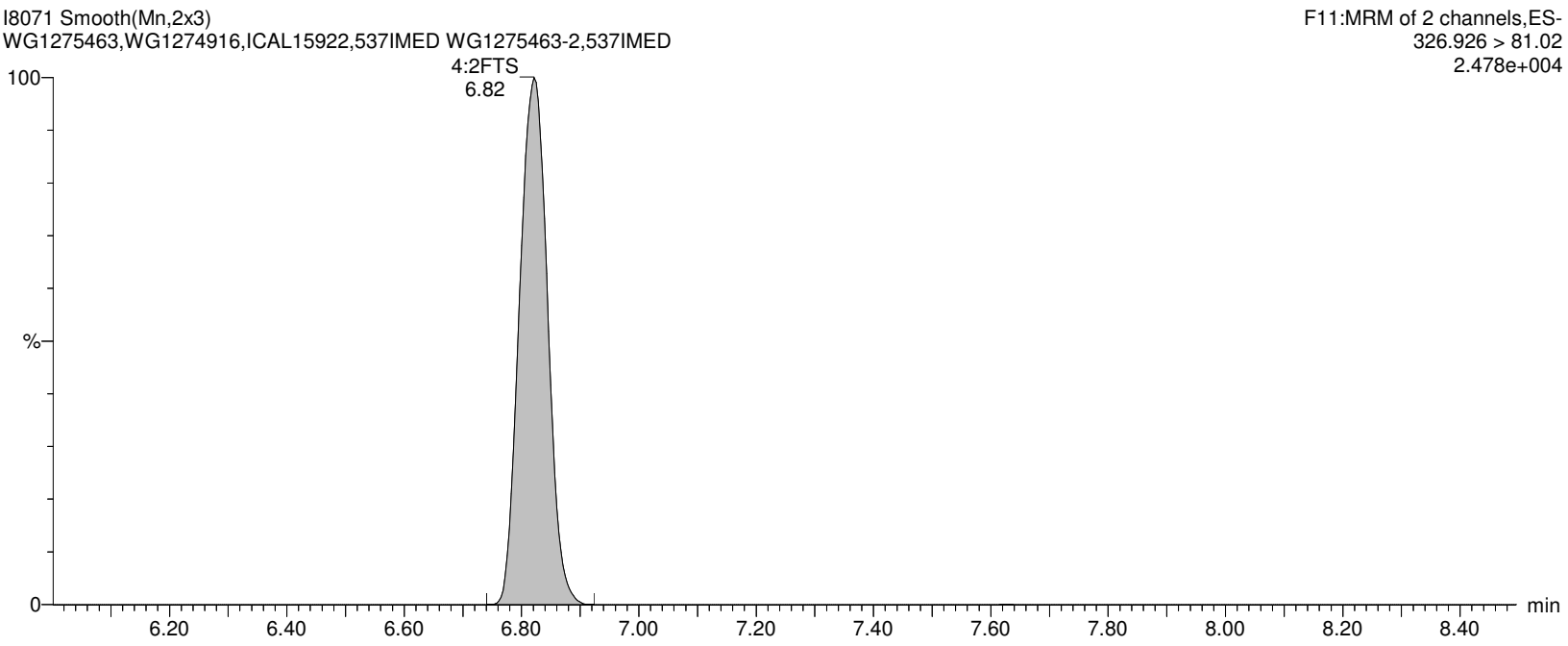
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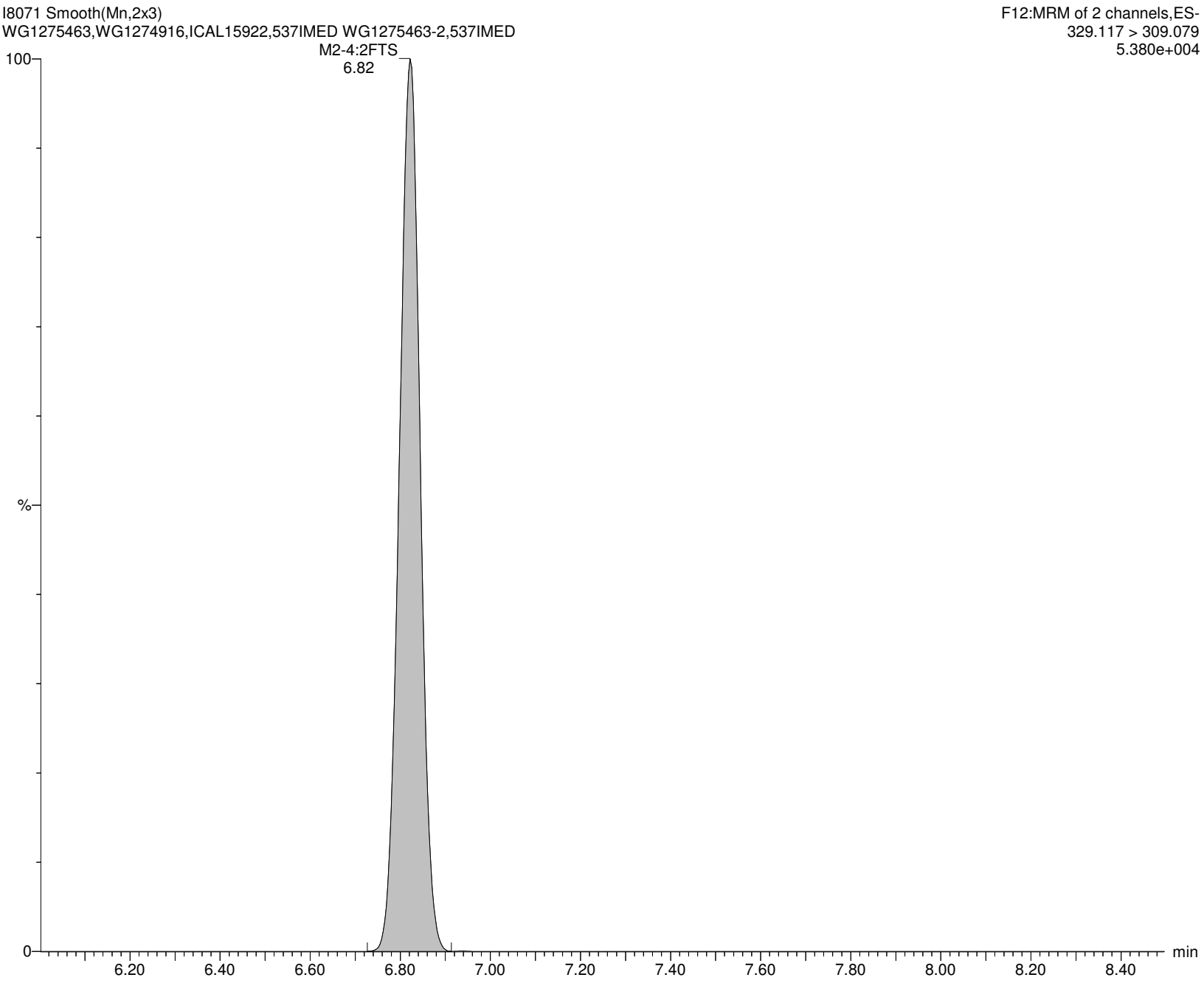


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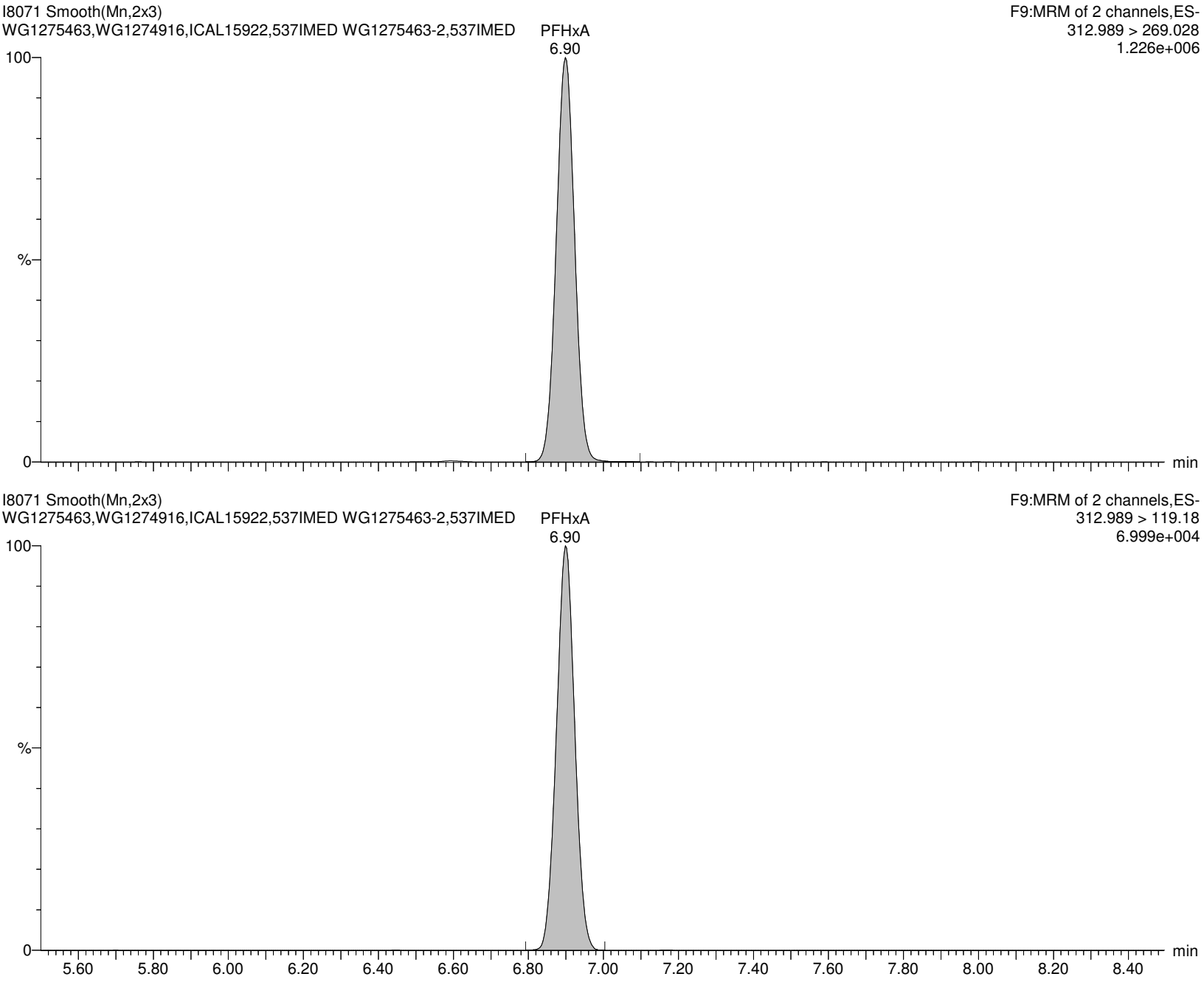


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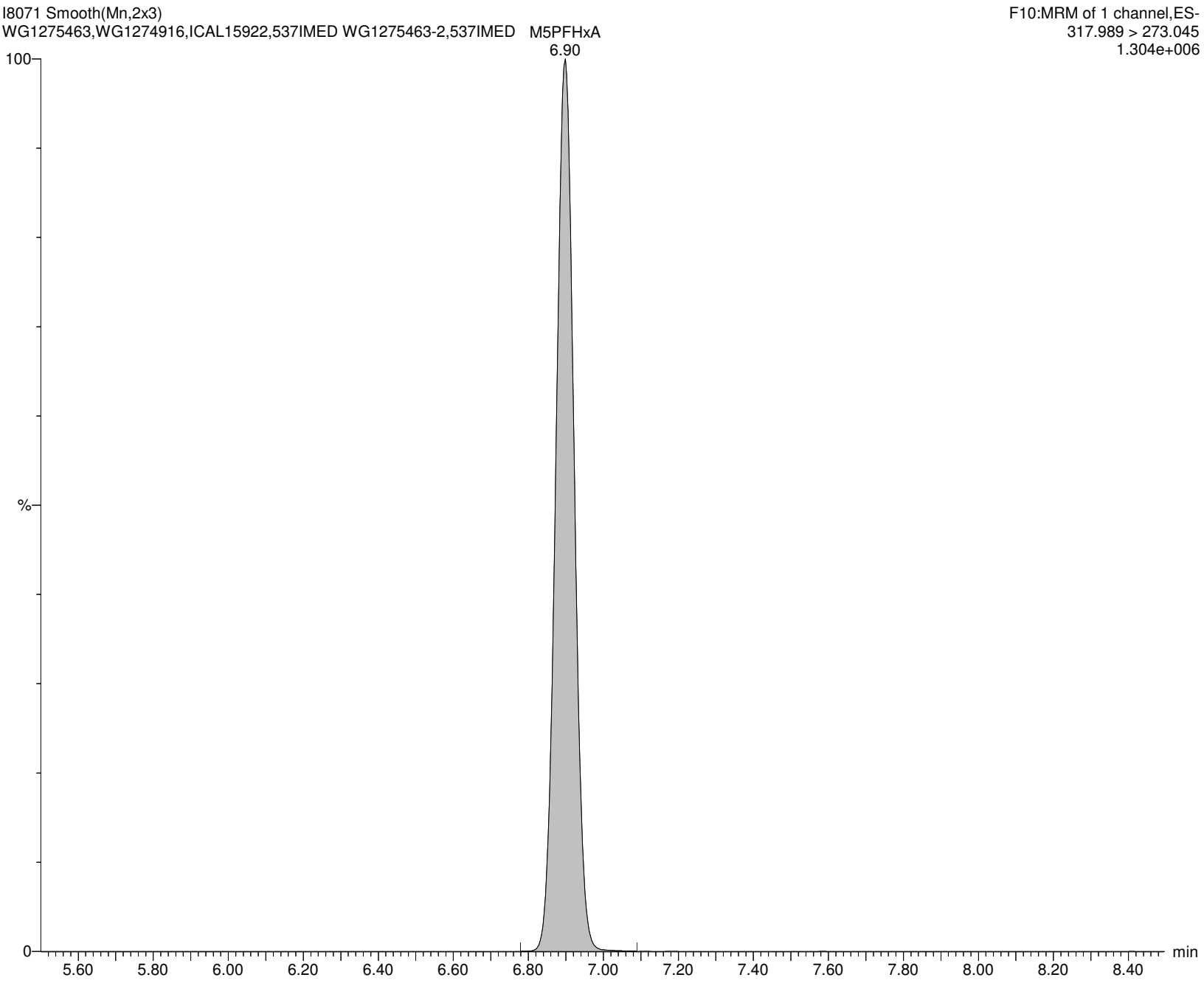


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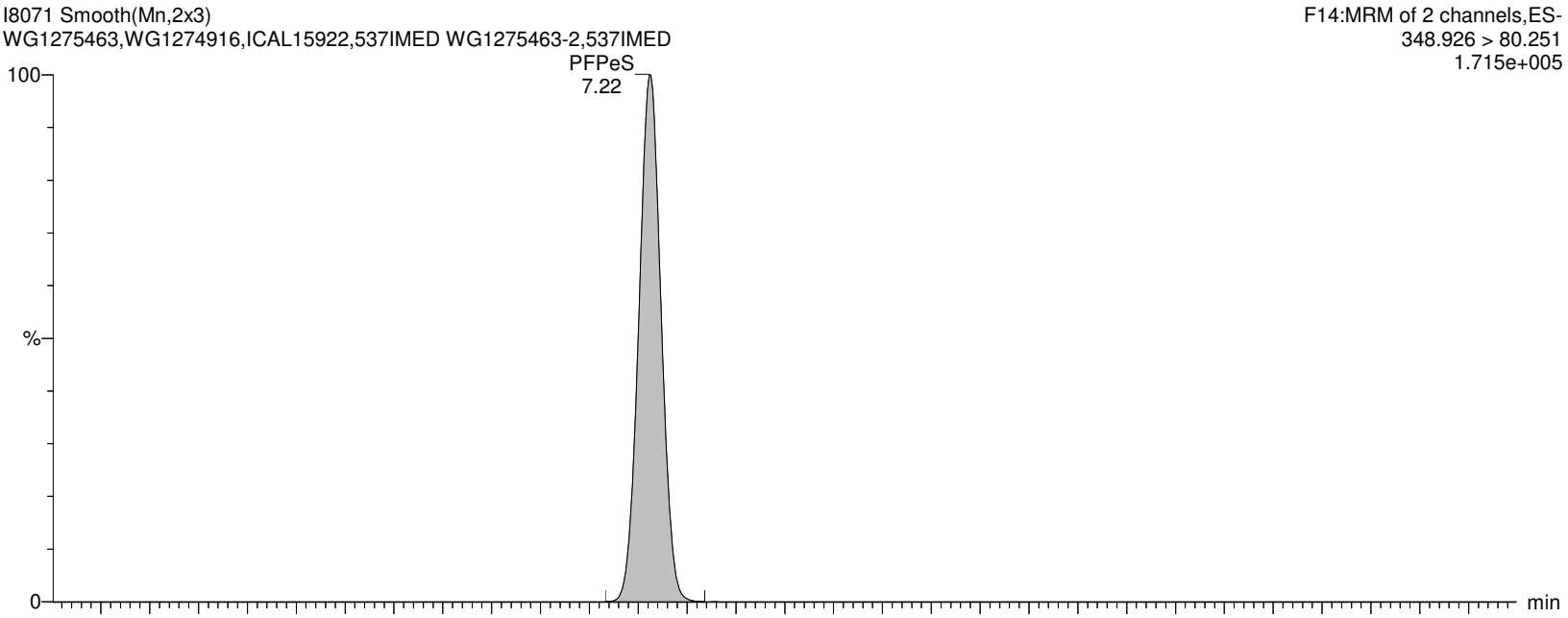


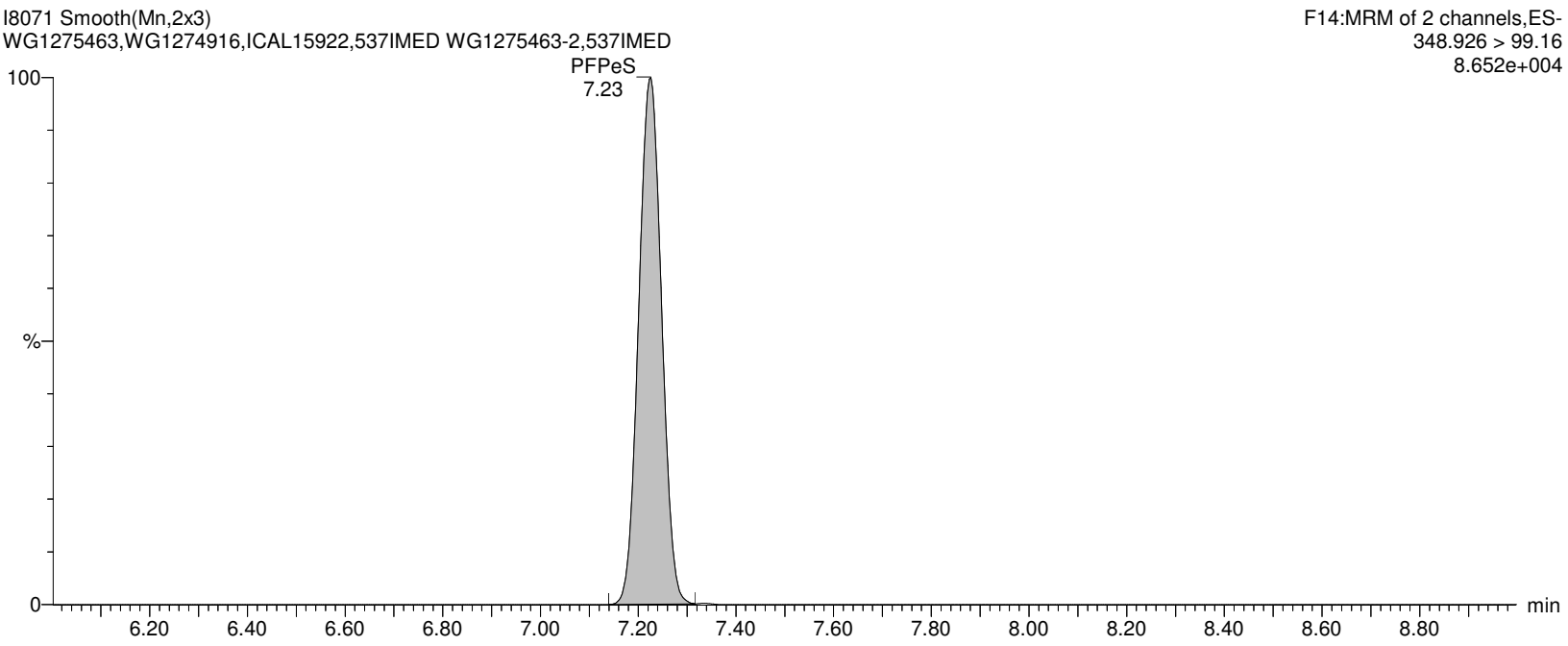
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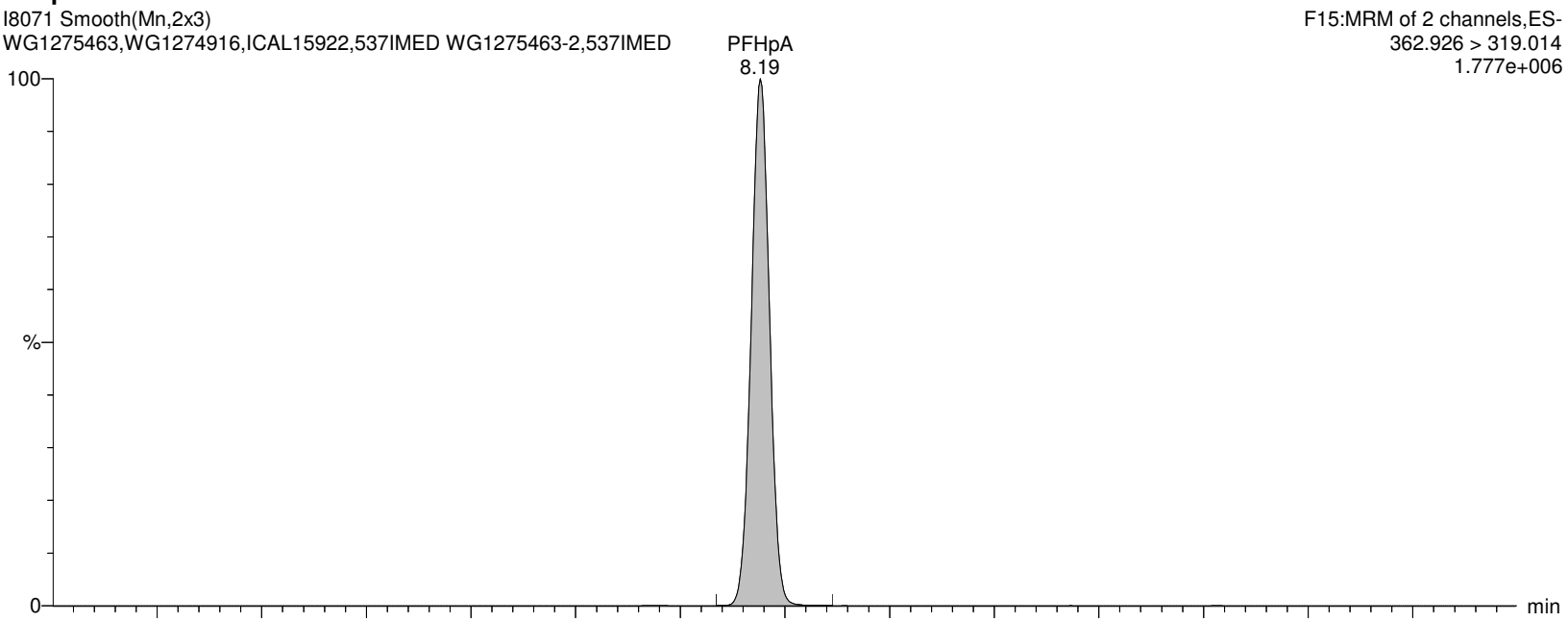


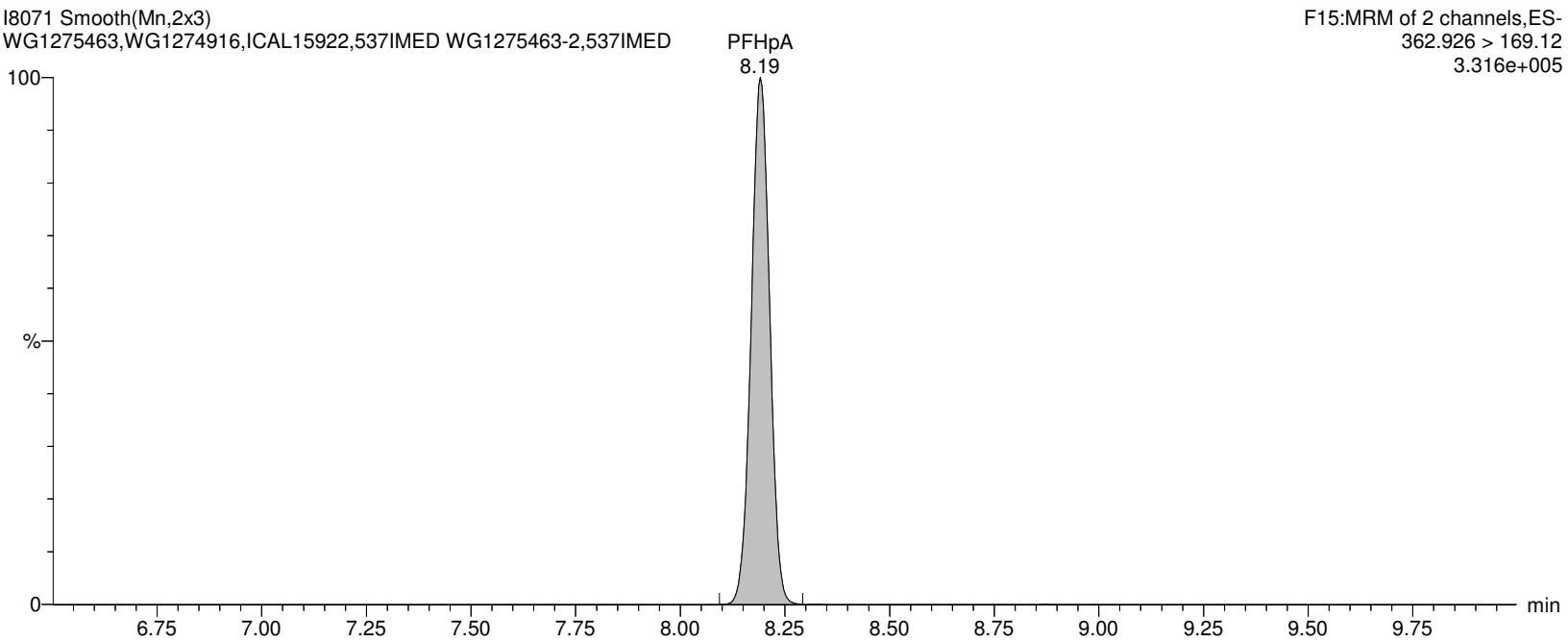
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Printed: Thursday, August 22, 2019 13:33:34 Eastern Daylight Time

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Date: 22-Aug-2019
Time: 13:06:58
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User: LCMS02:JW
Vial: 1:A,3
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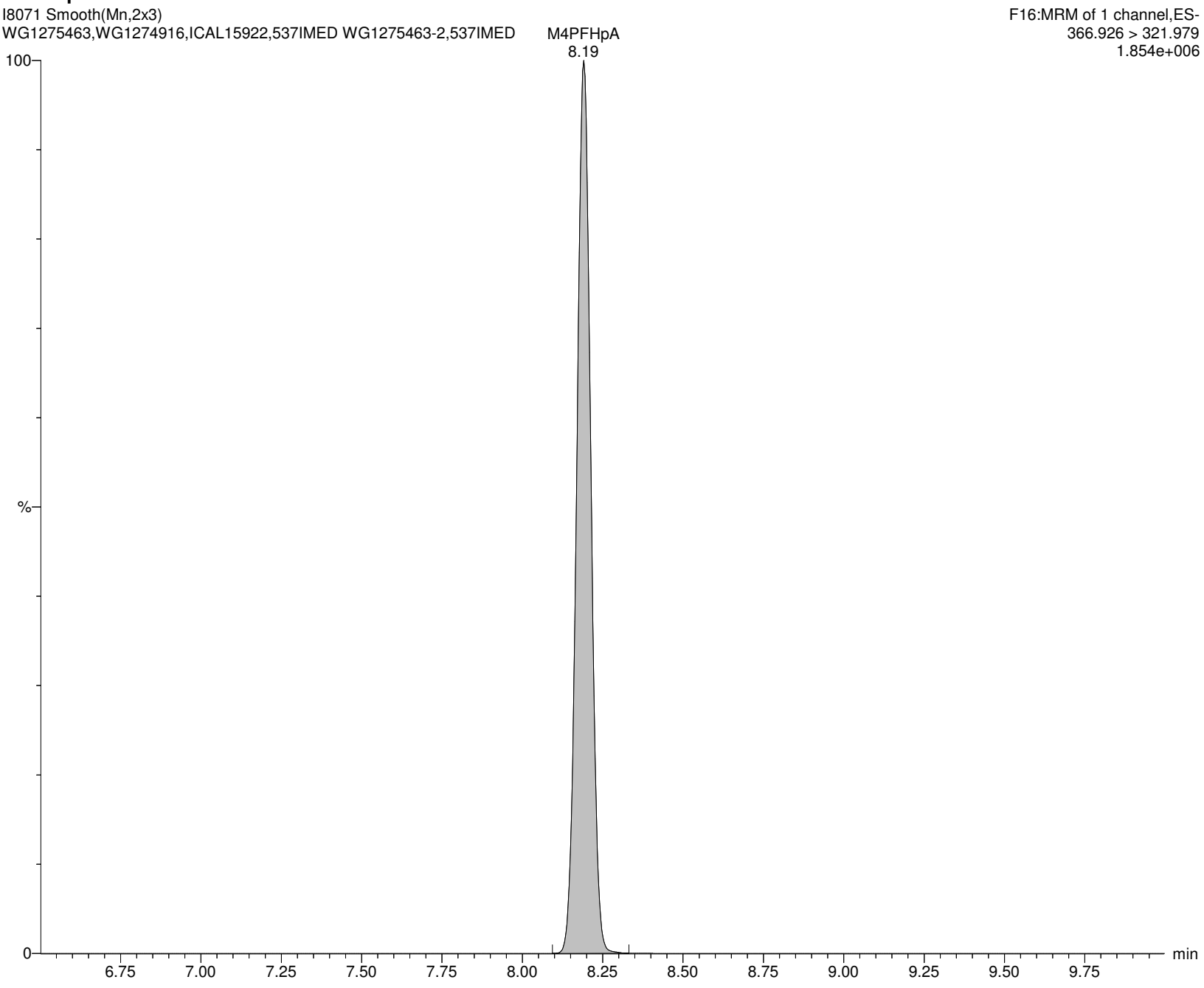


all concentration units in (ng/mL)

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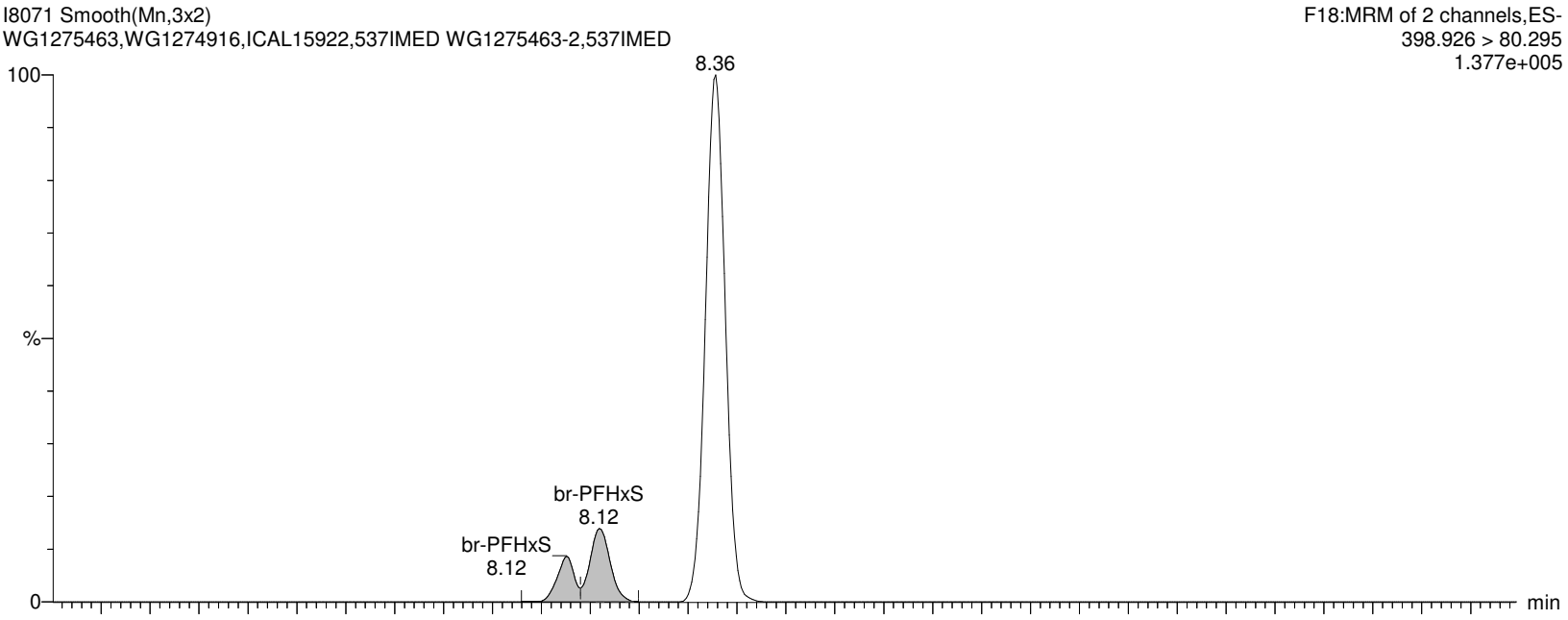


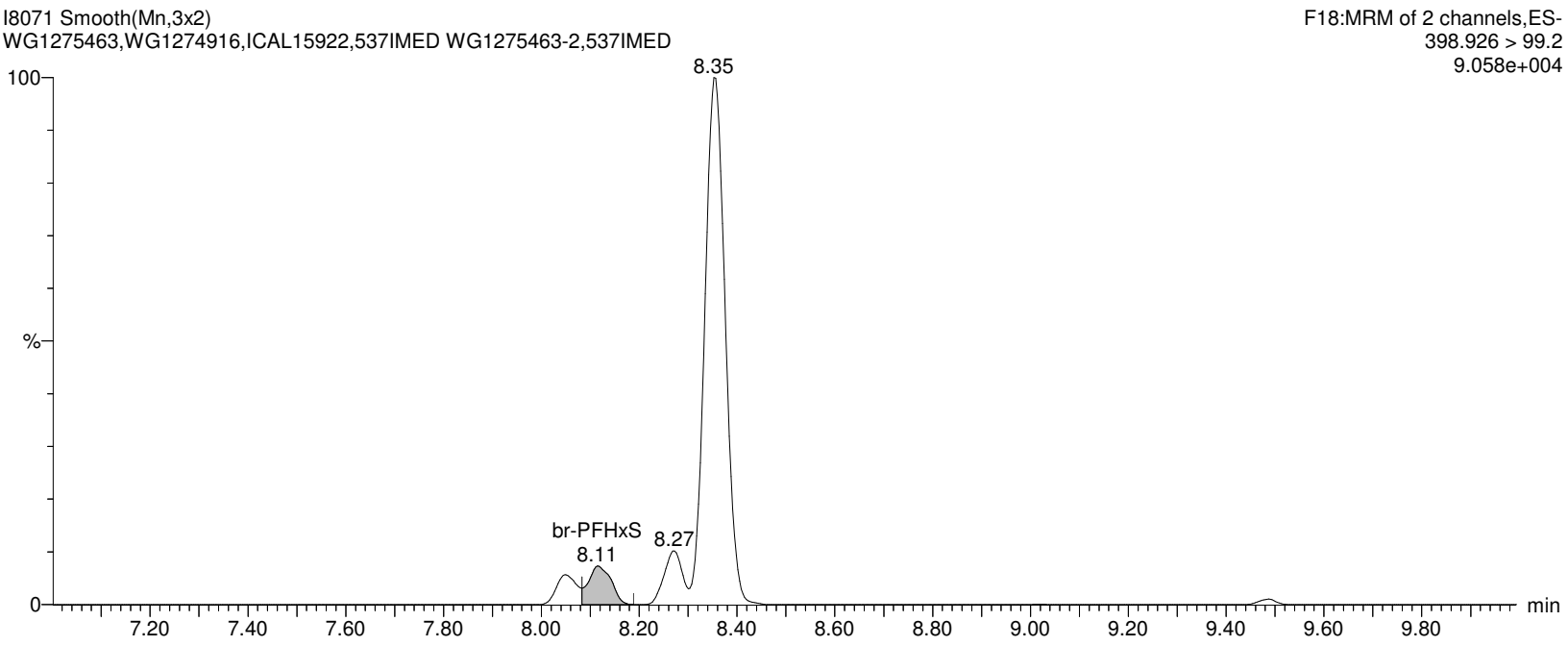
all concentration units in (ng/mL)

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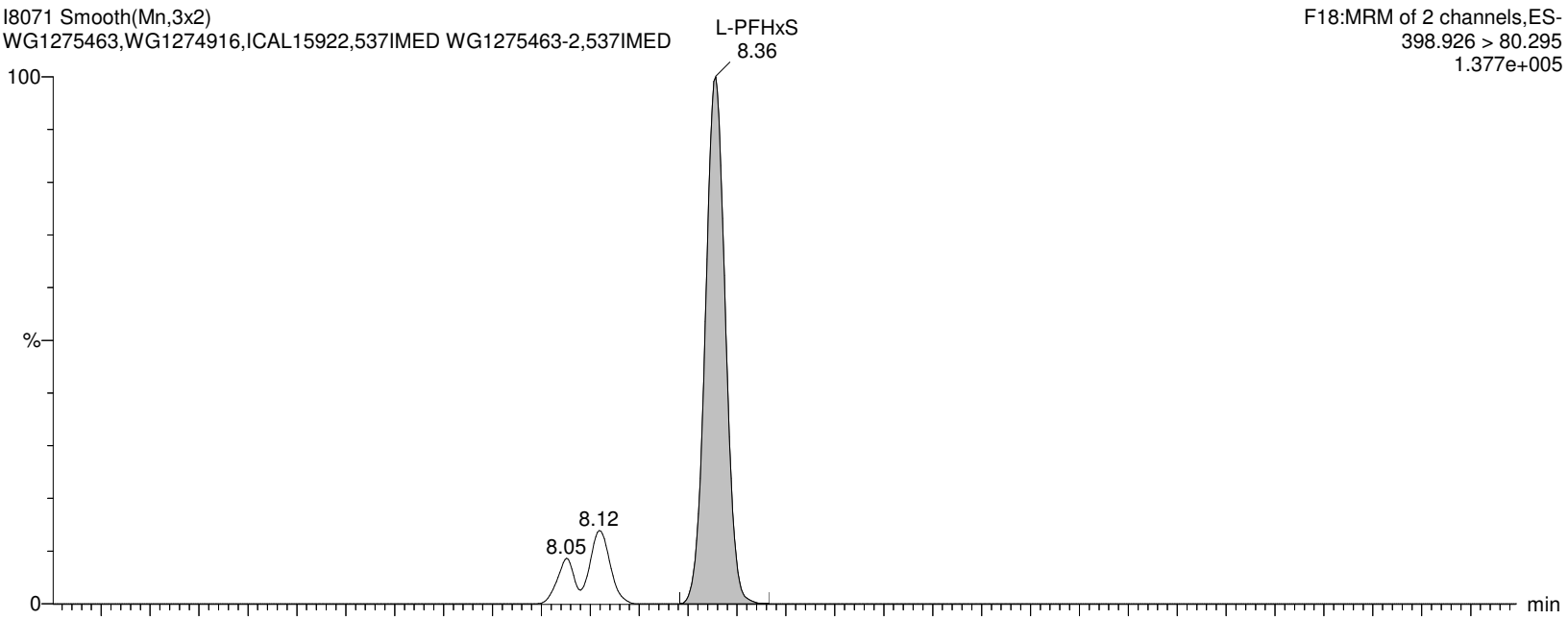


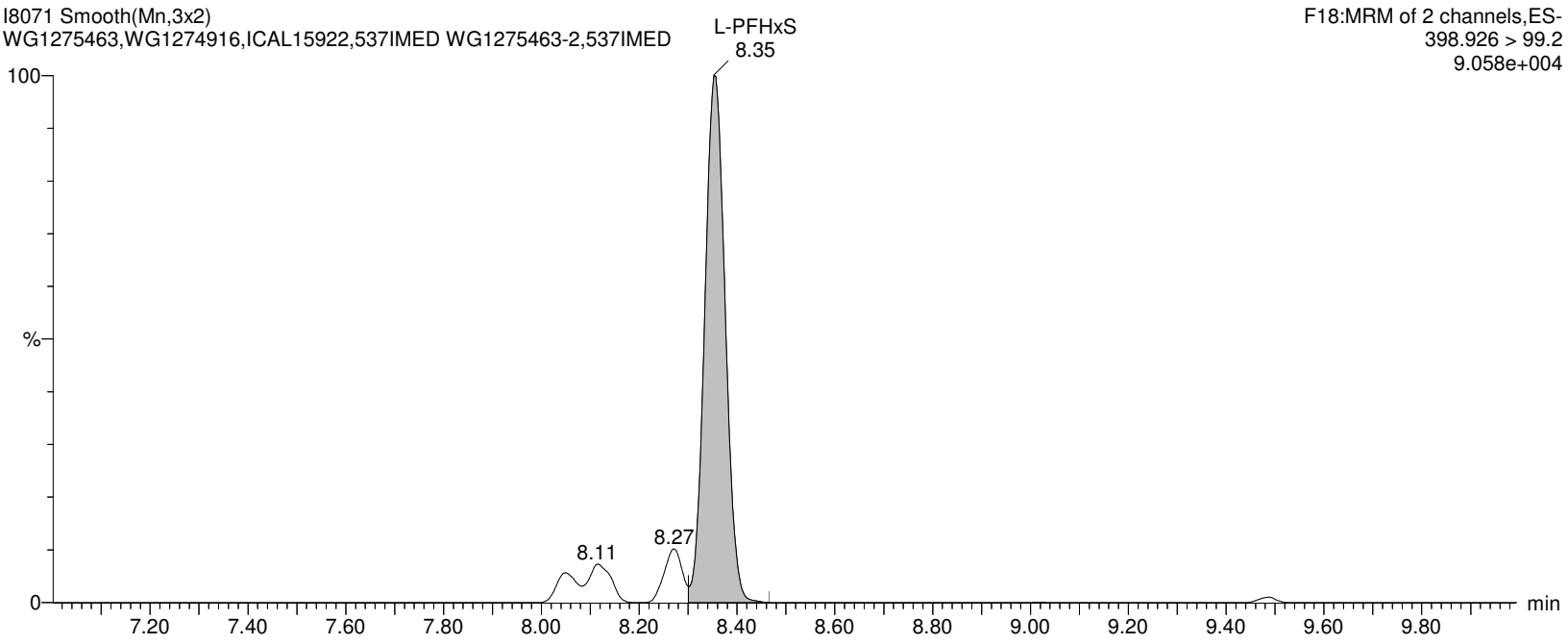
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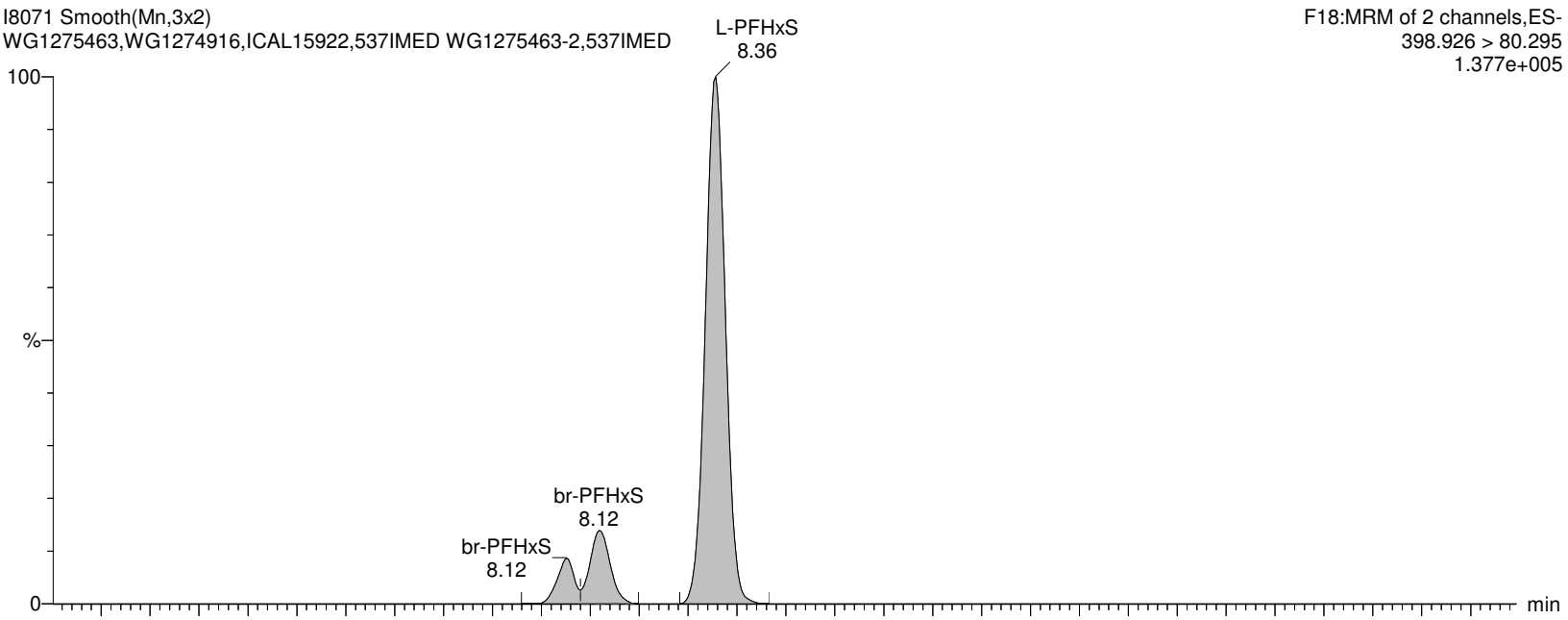


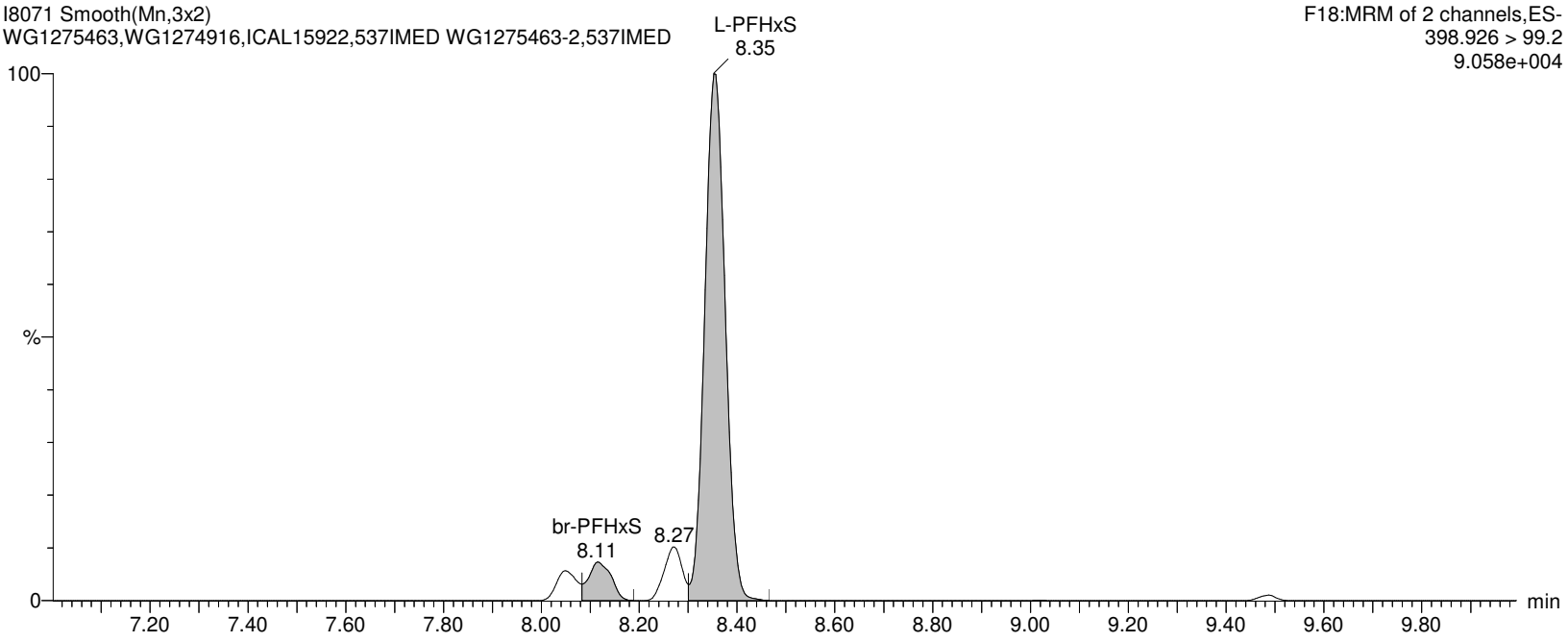
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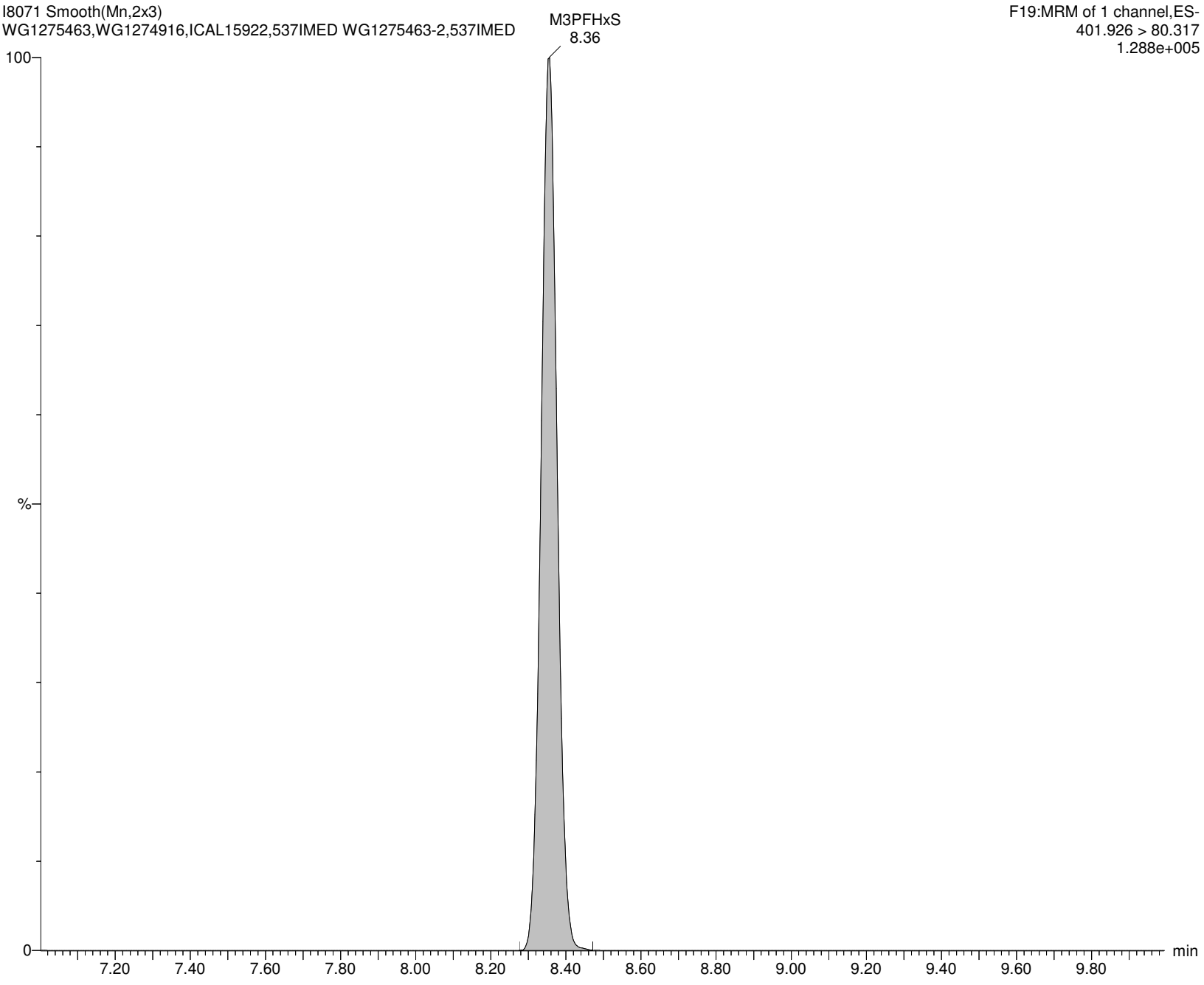


all concentration units in (ng/mL)

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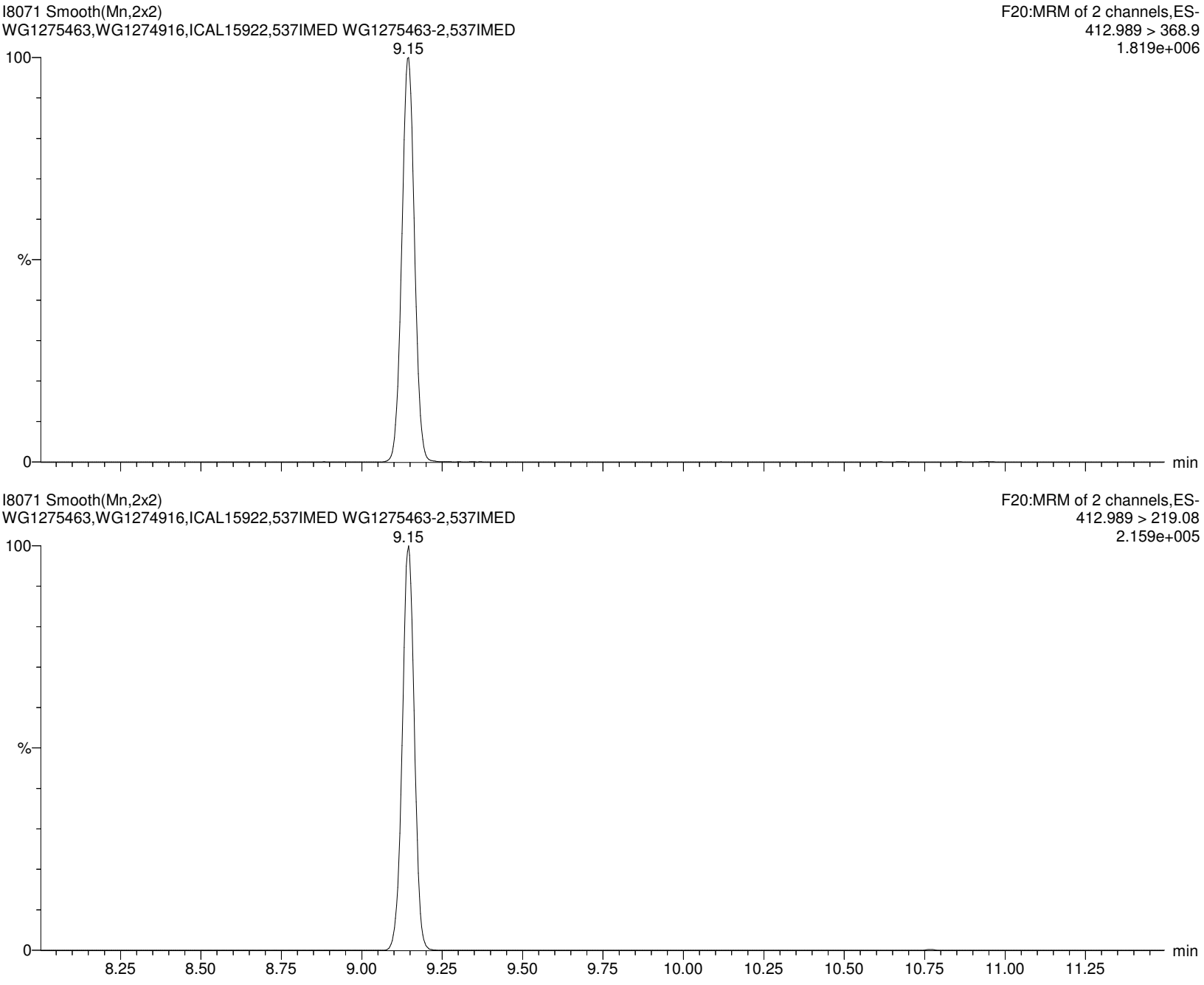


all concentration units in (ng/mL)

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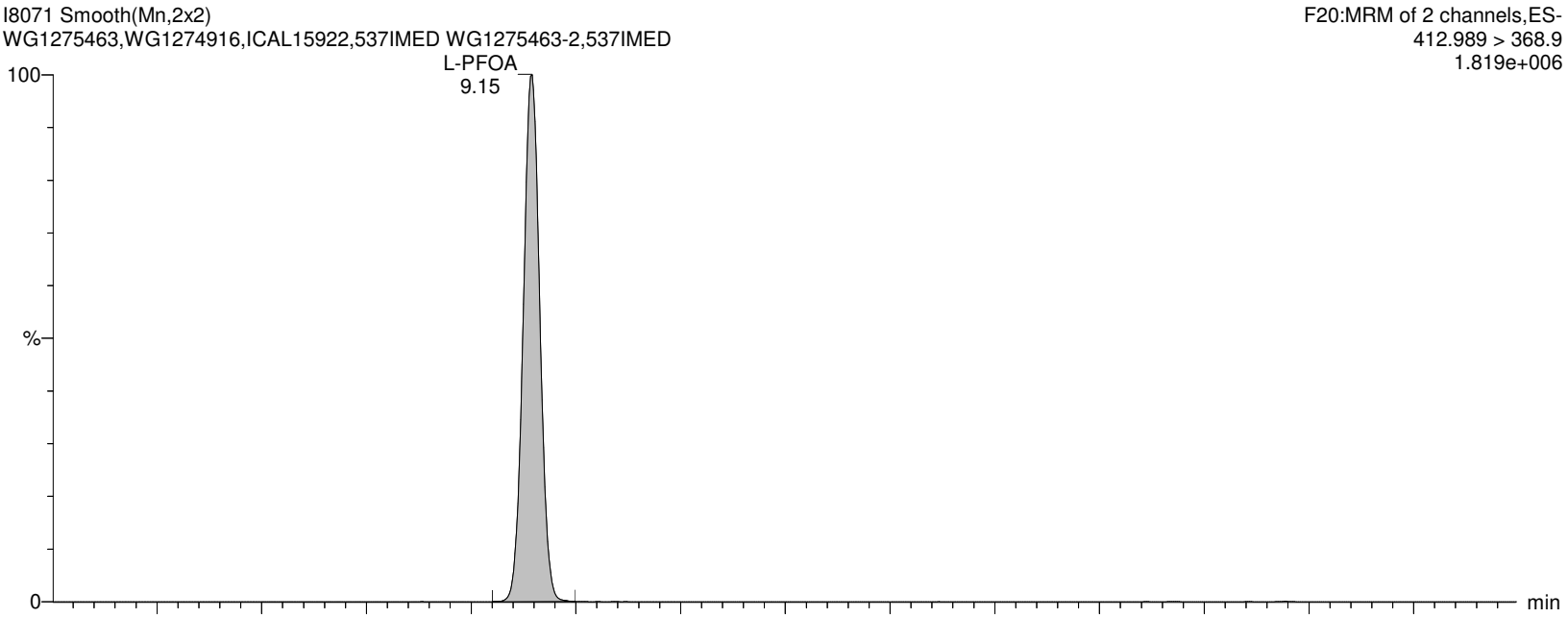


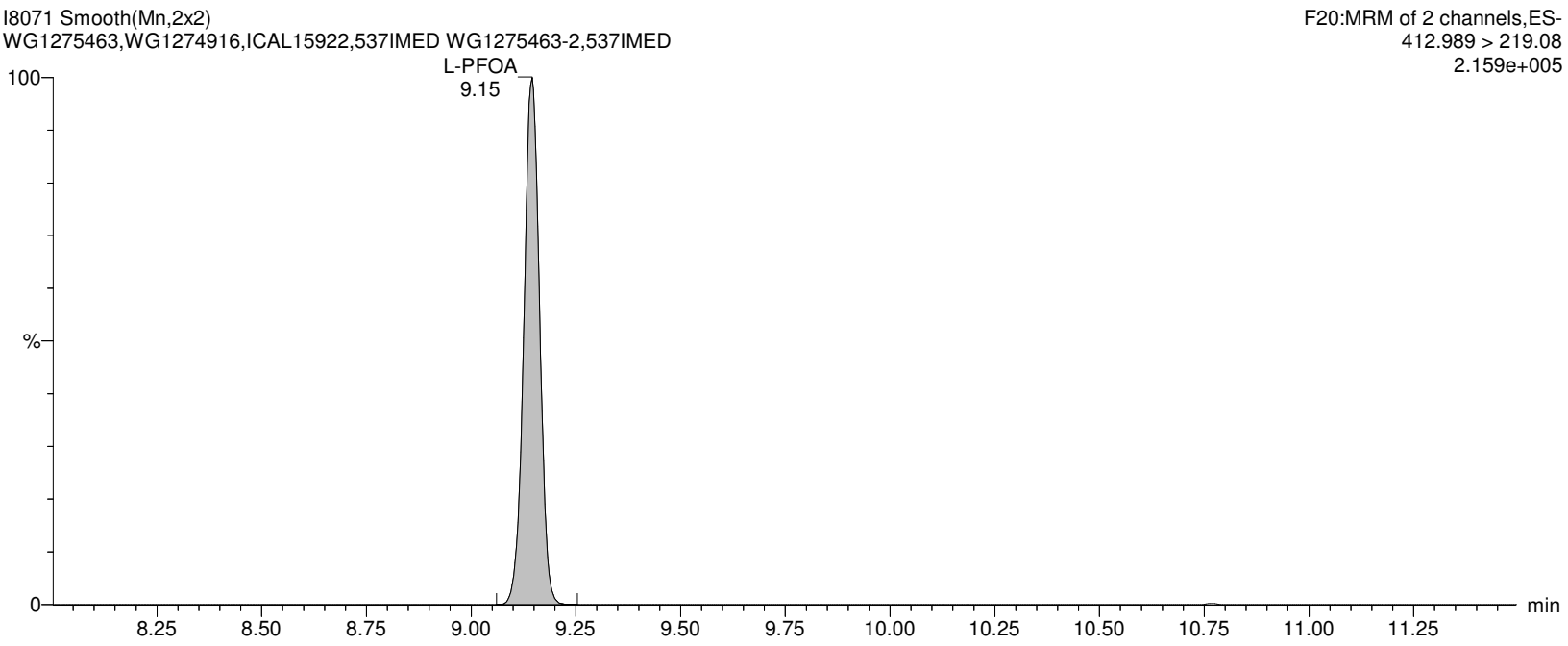
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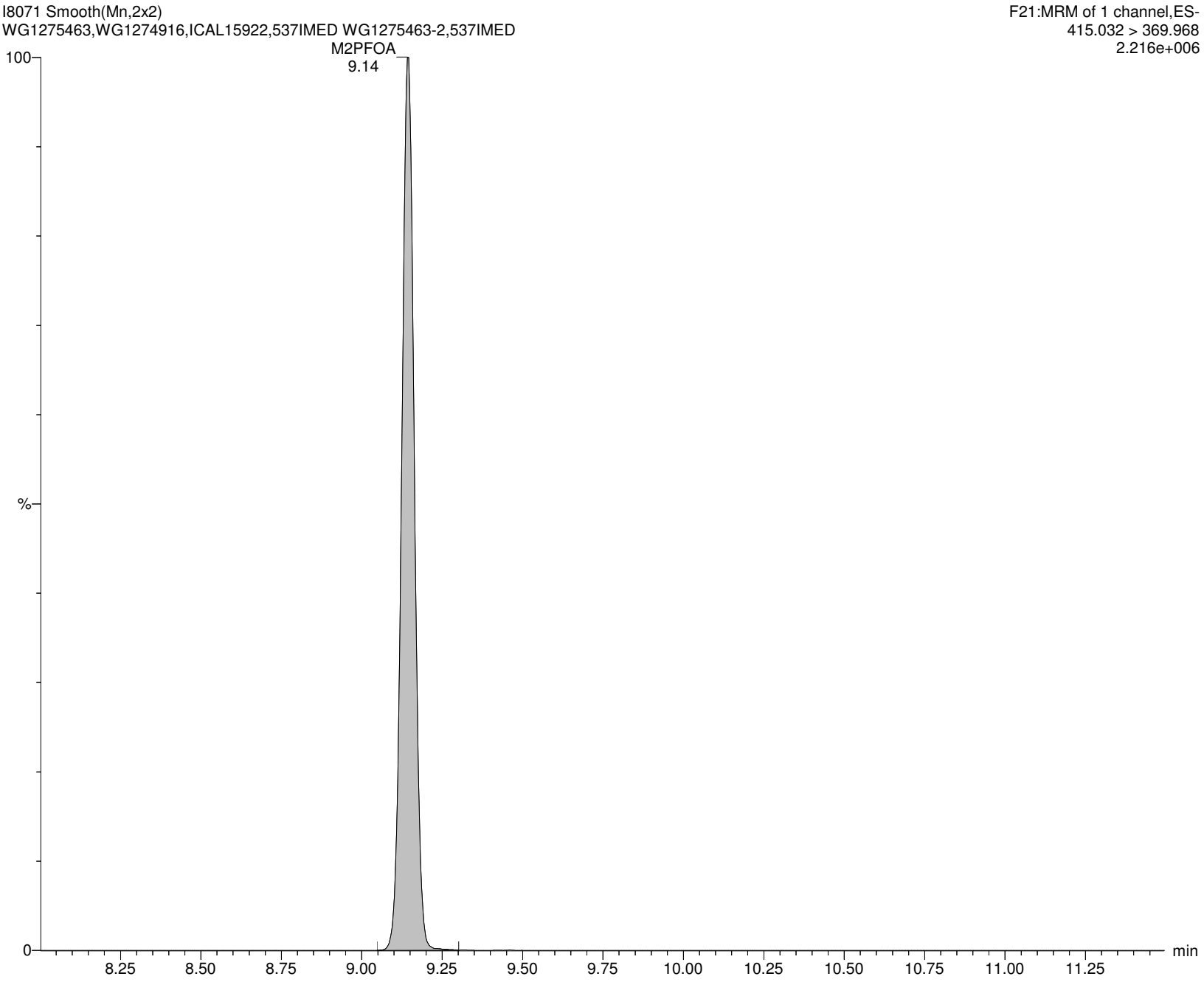


all concentration units in (ng/mL)

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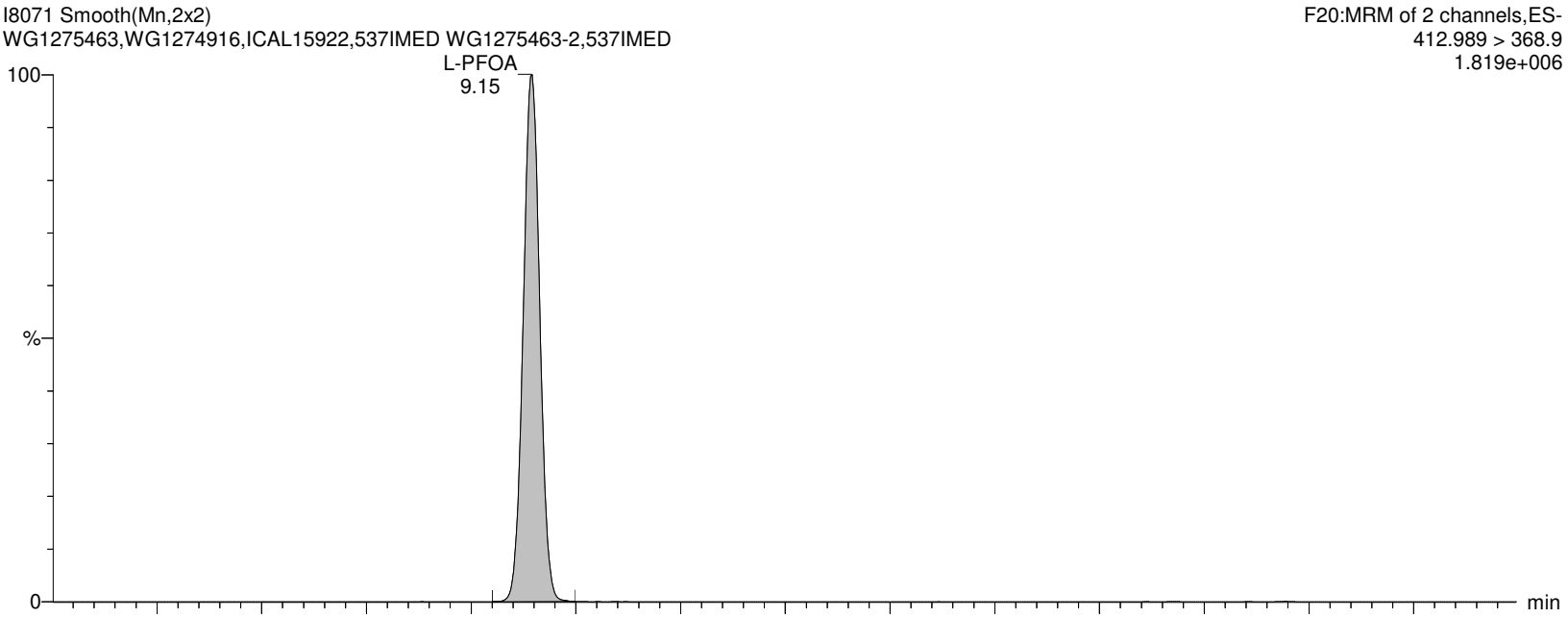


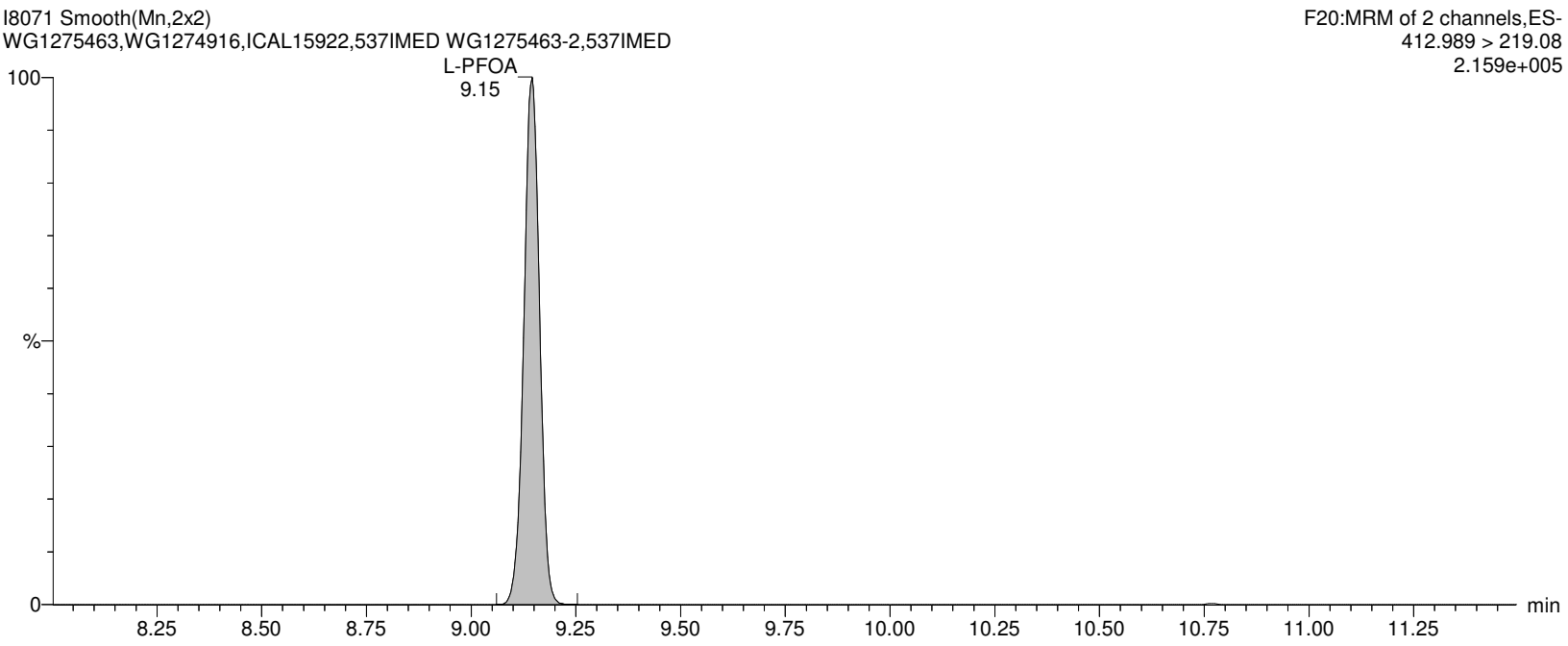
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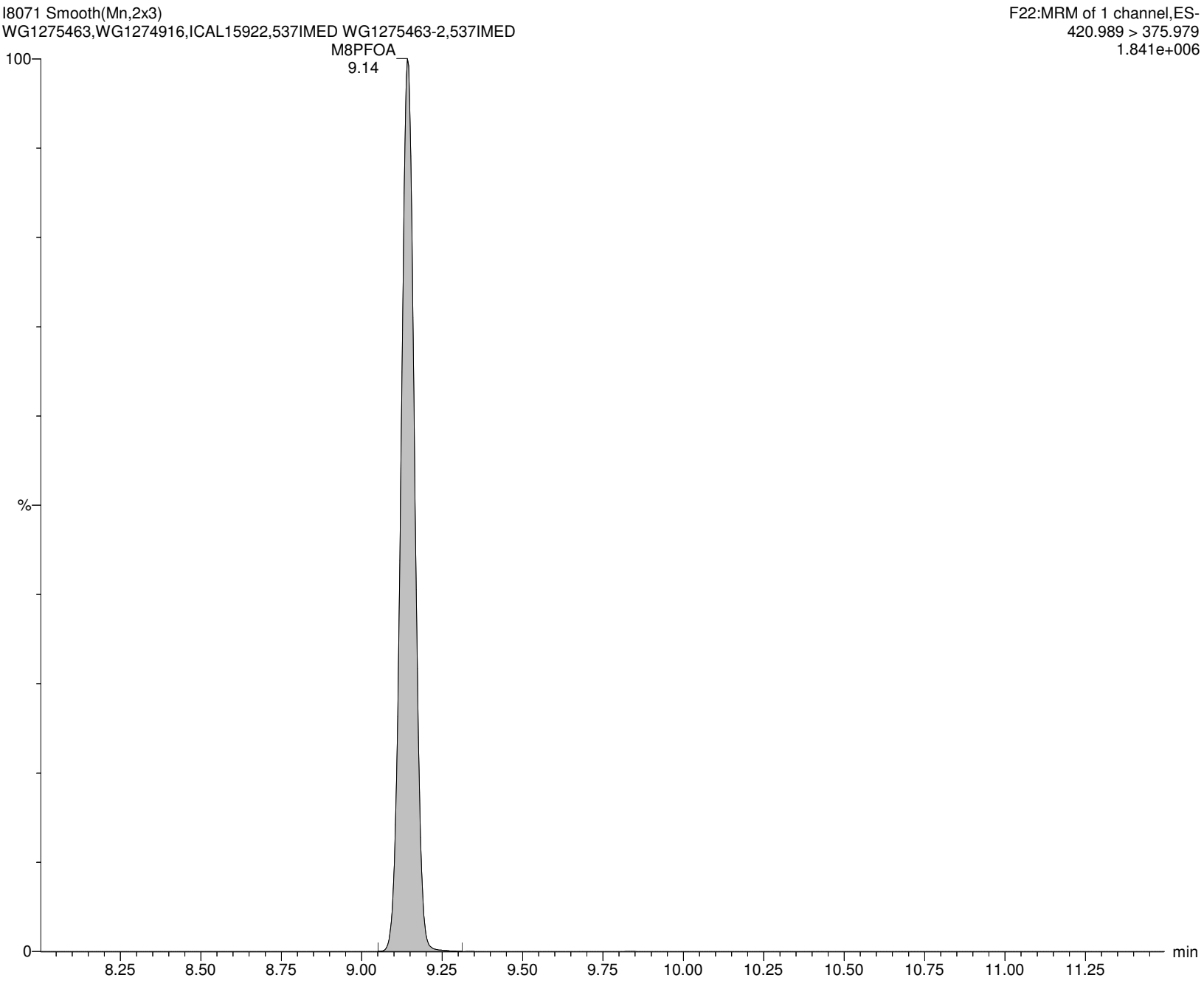


all concentration units in (ng/mL)

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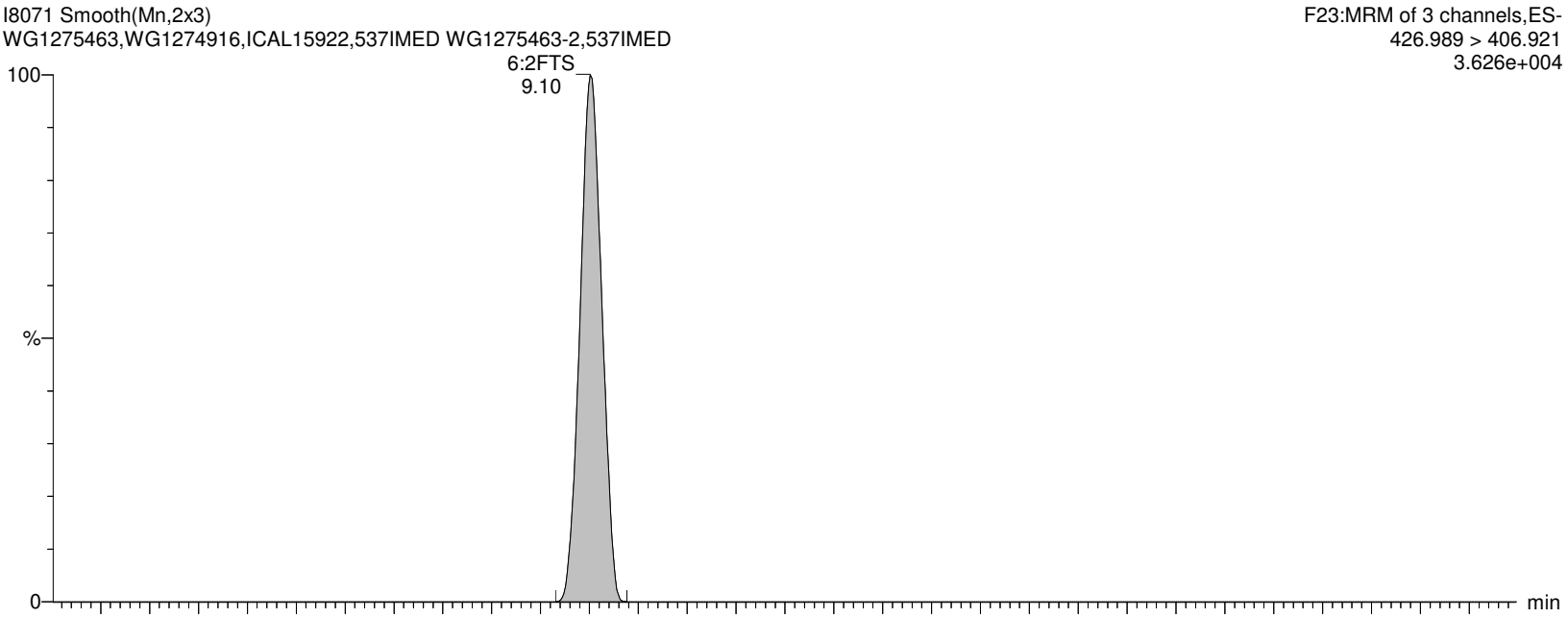


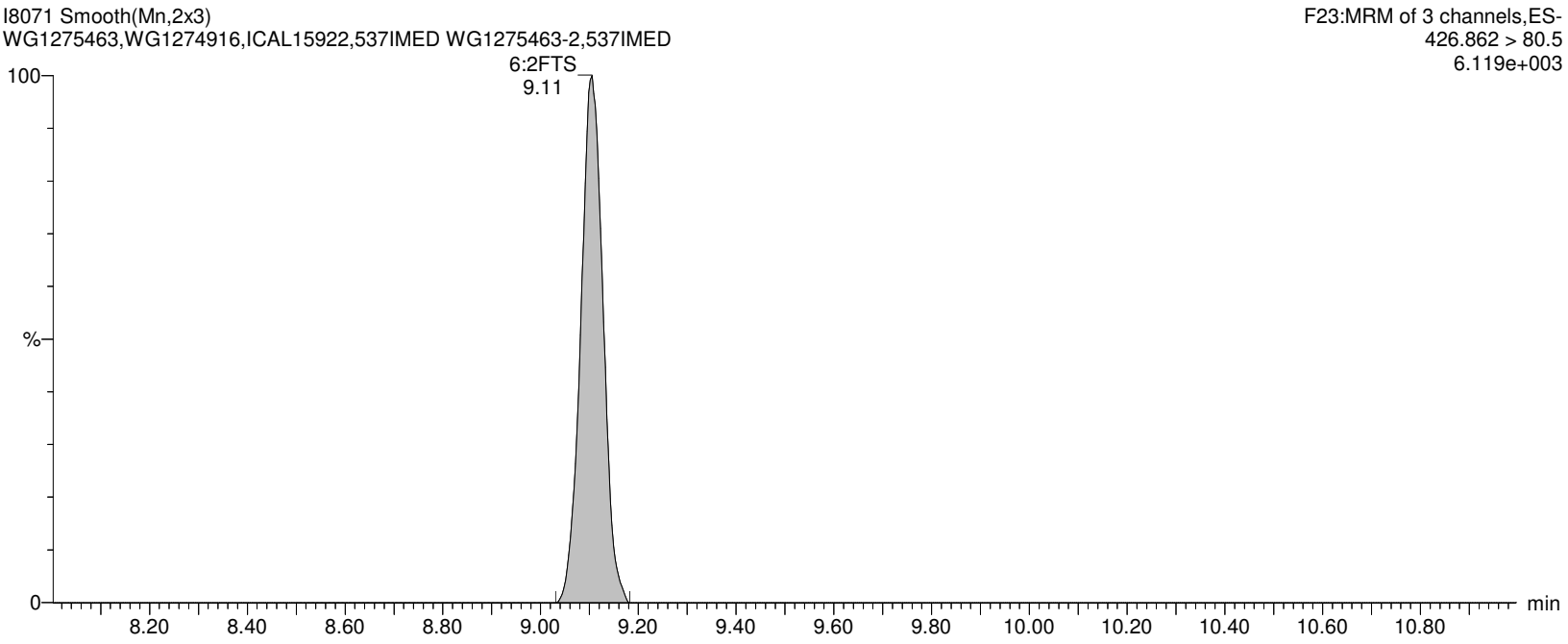
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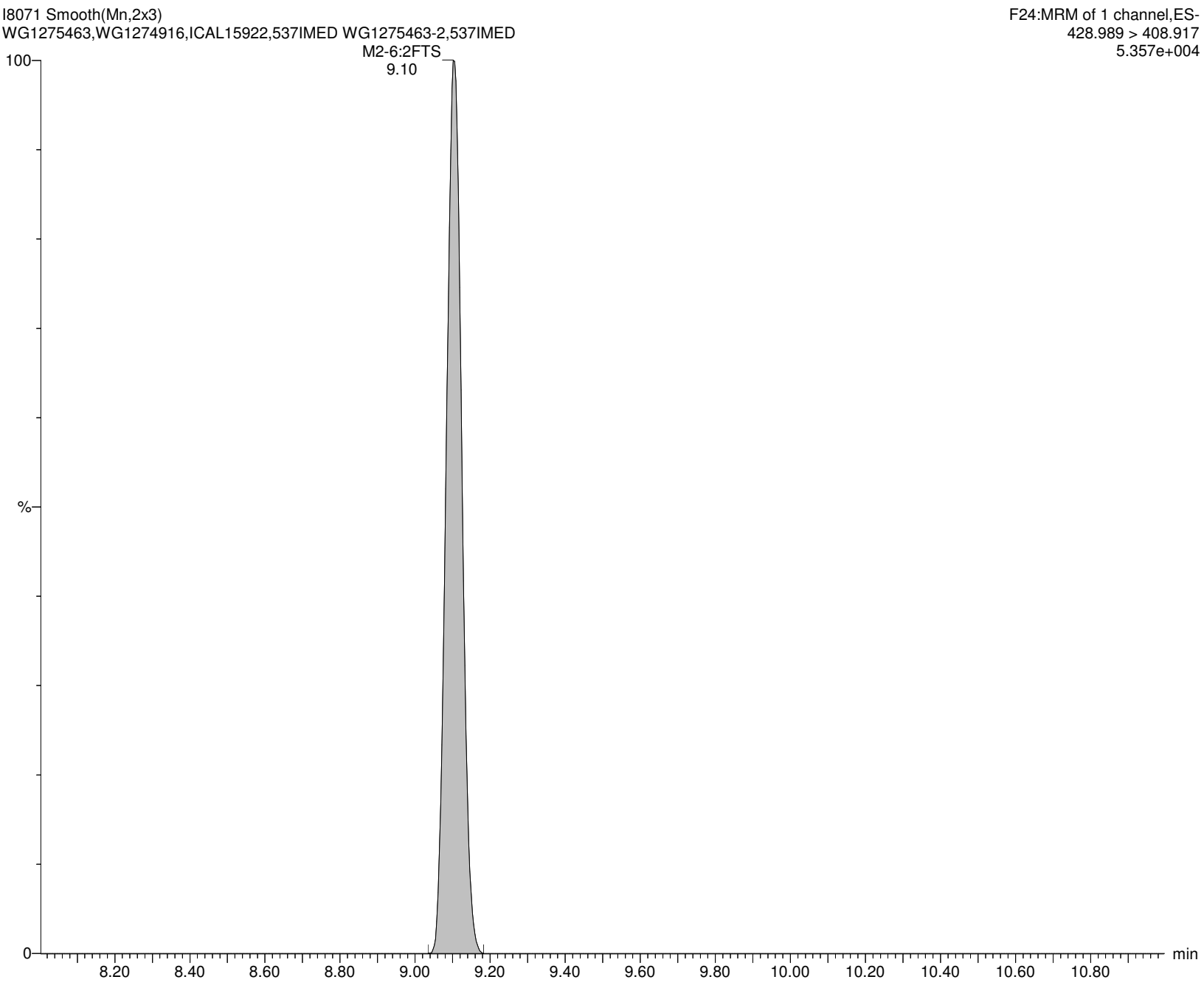


all concentration units in (ng/mL)

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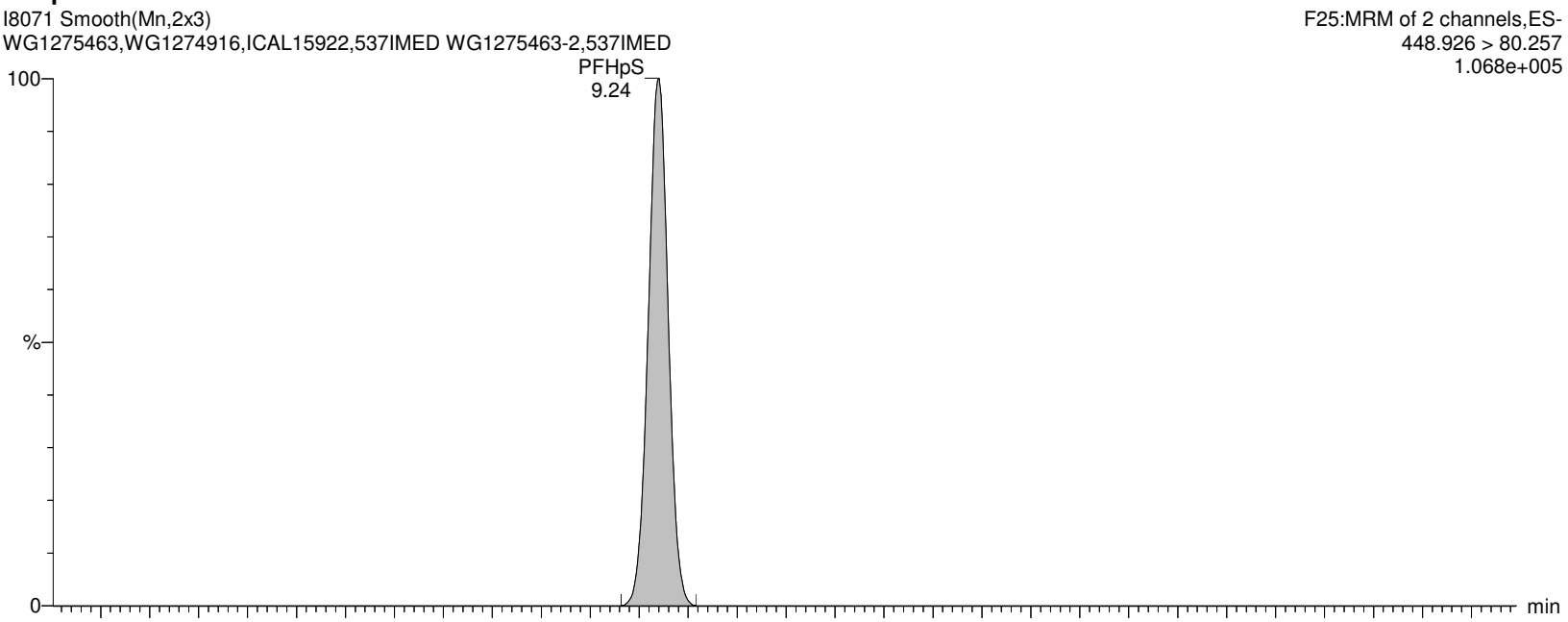


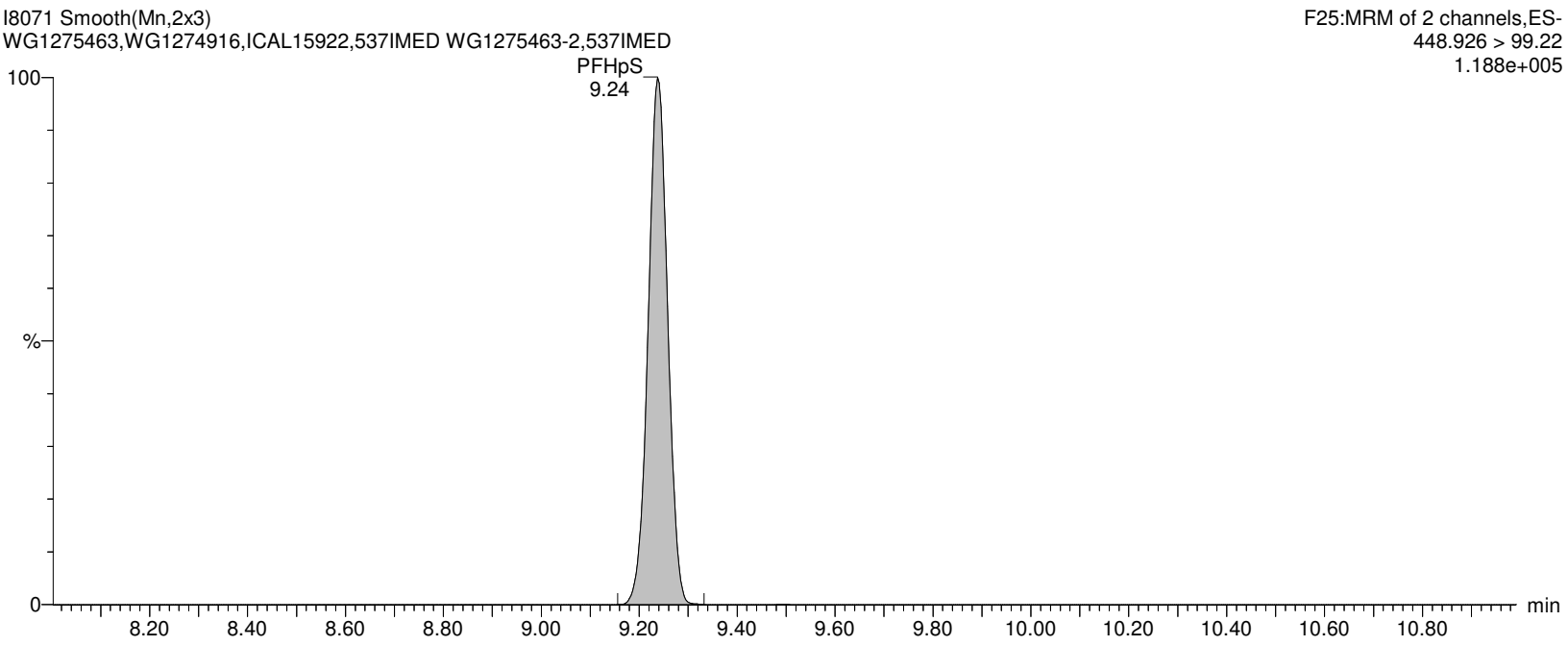
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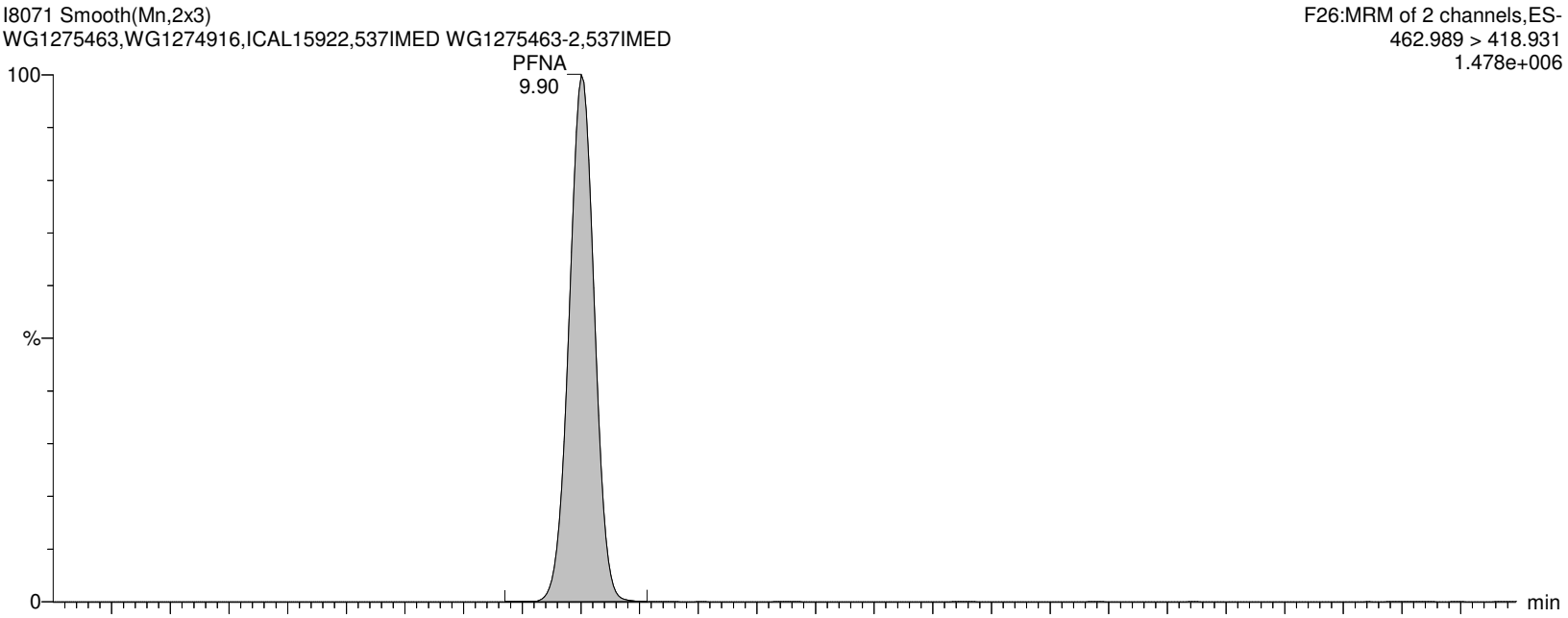


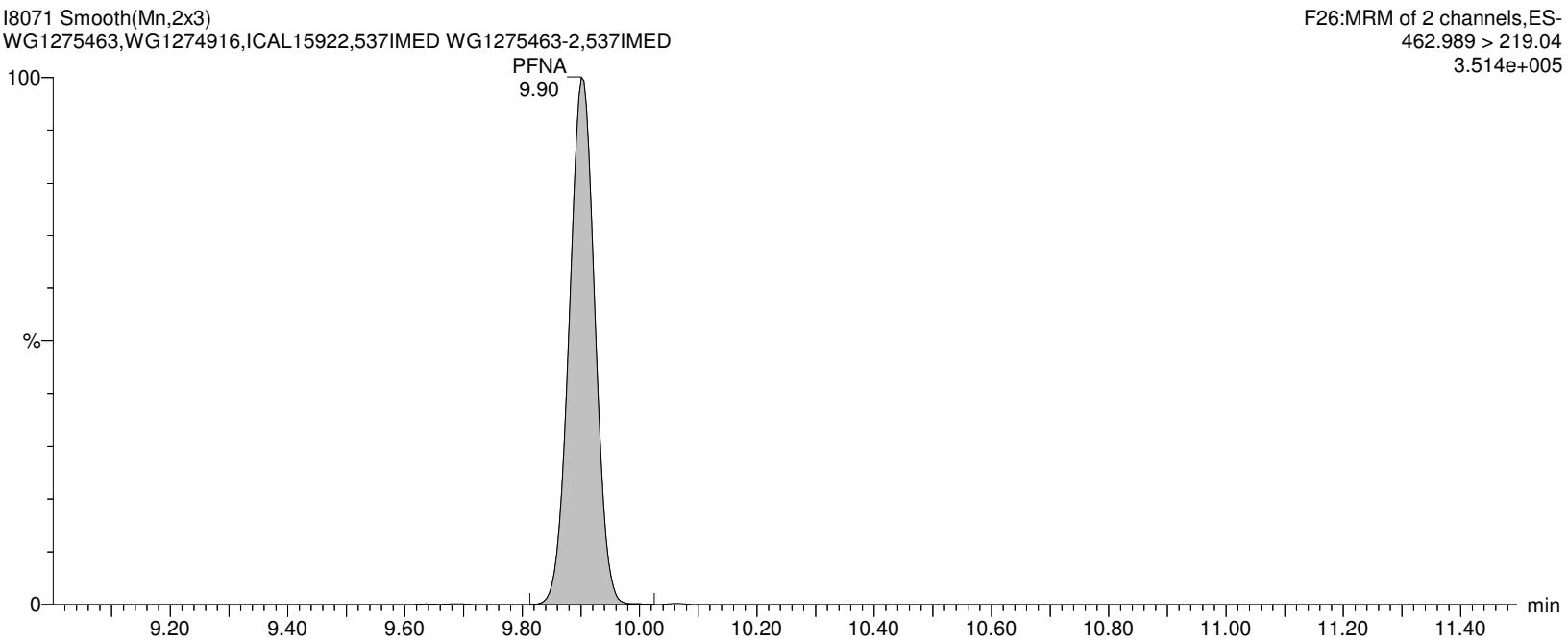
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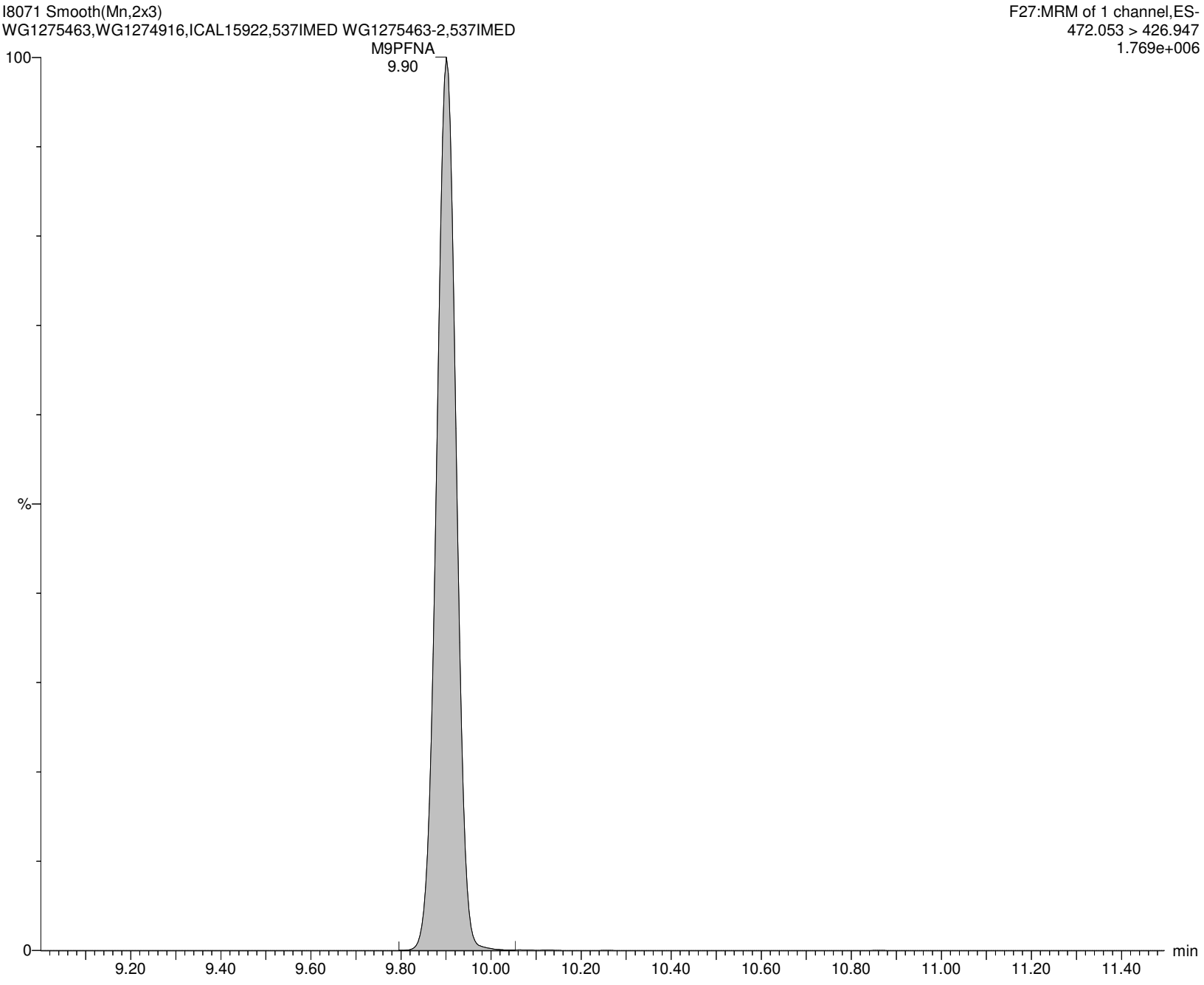


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ID: WG1275463-2,537IMED
Date: 22-Aug-2019
Time: 13:06:58
Description: WG1275463,WG1274916,ICAL15922,537IMED
User: LCMS02:JW
Vial: 1:A,3
Instrument: XEVO-TQSmicro#QEB0050
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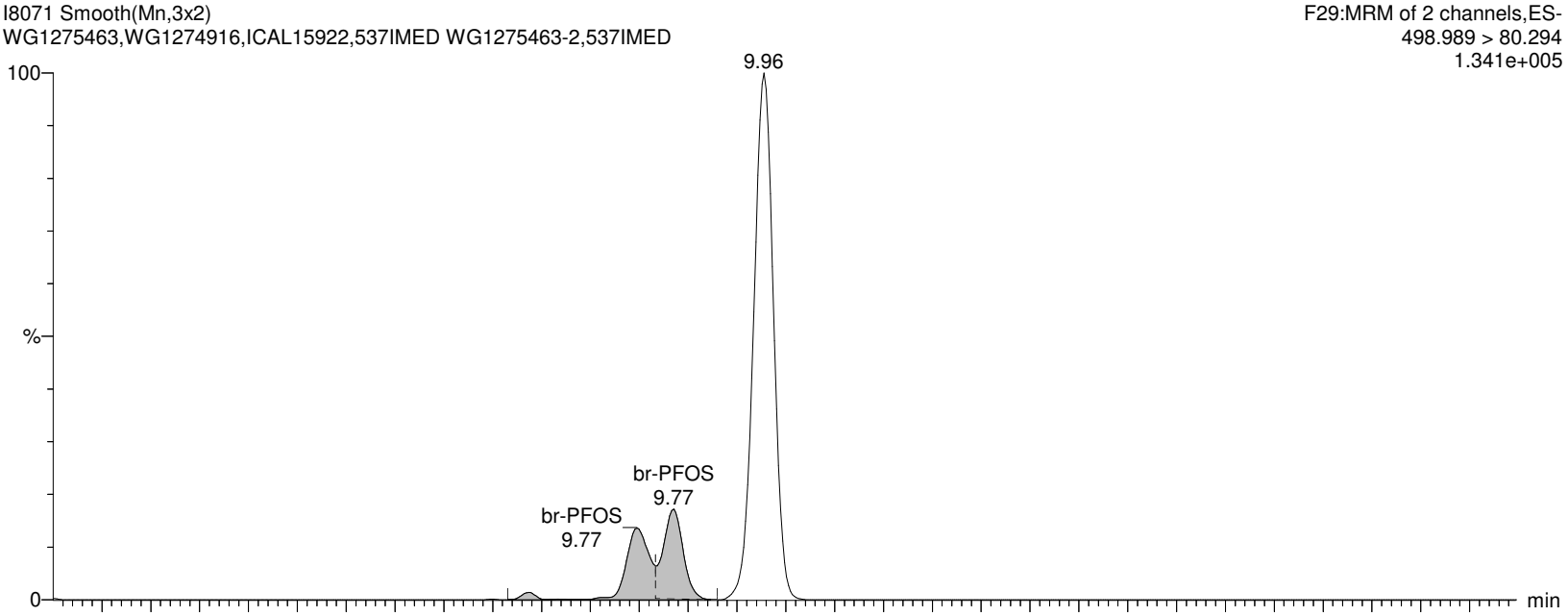


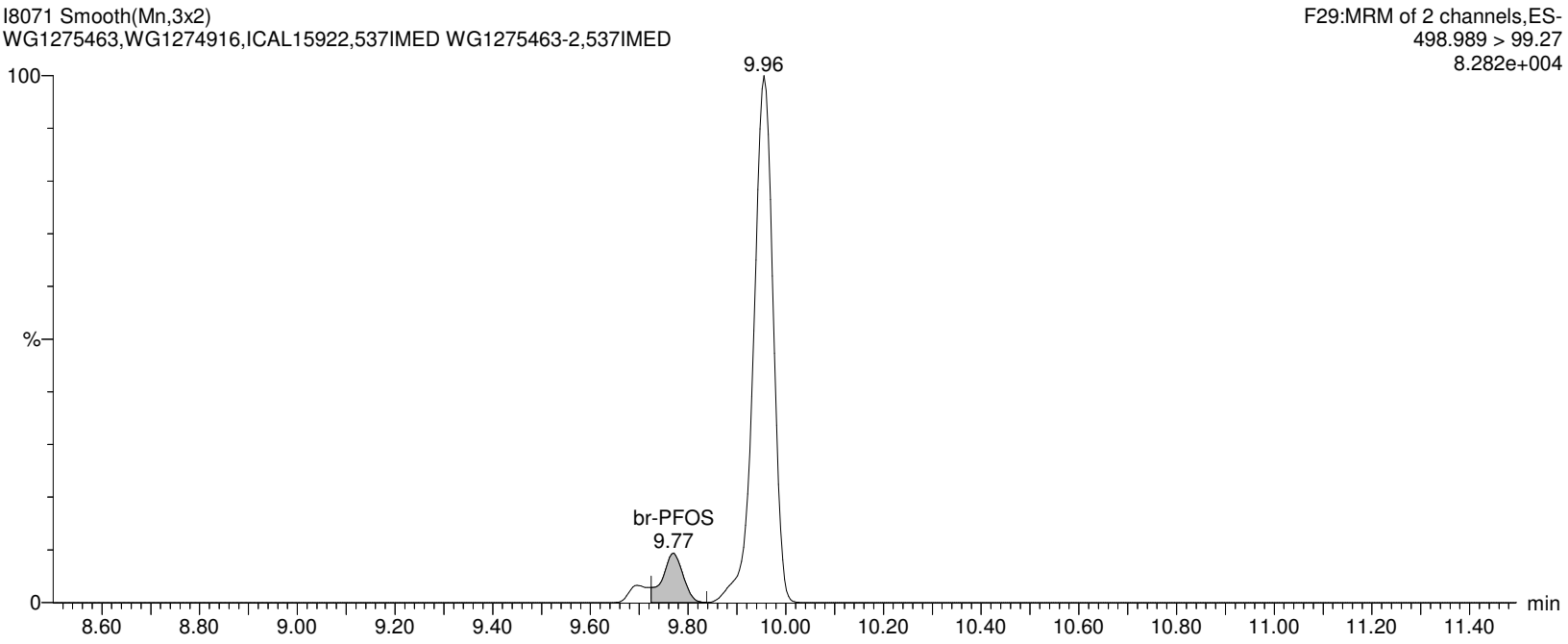
all concentration units in (ng/mL)

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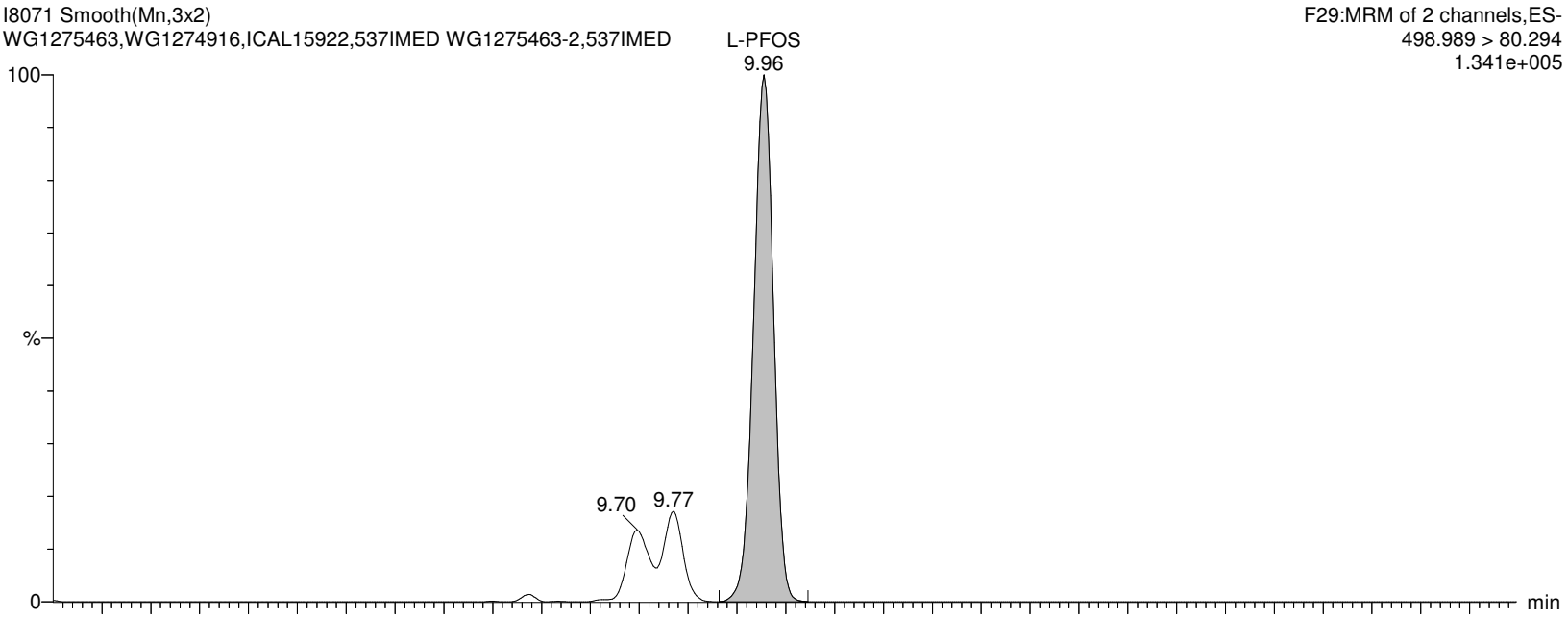


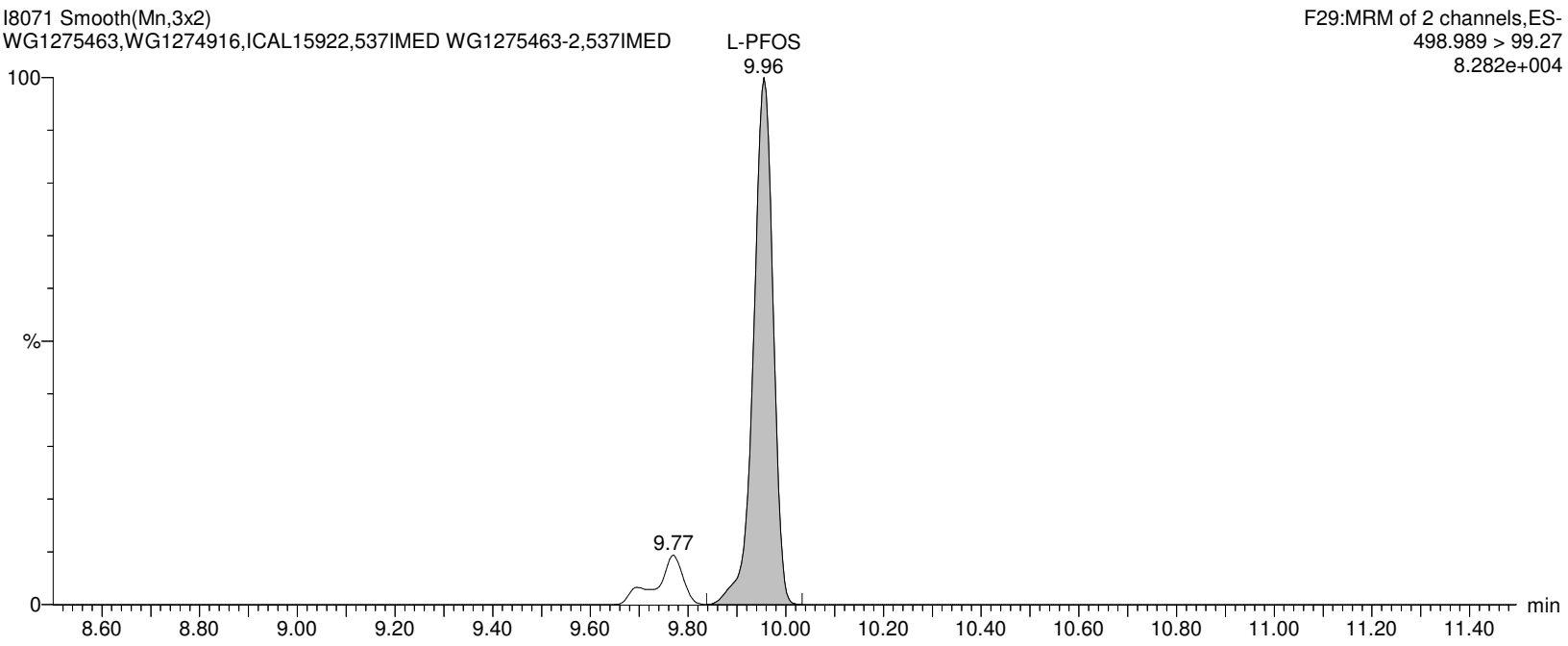
all concentration units in (ng/mL)

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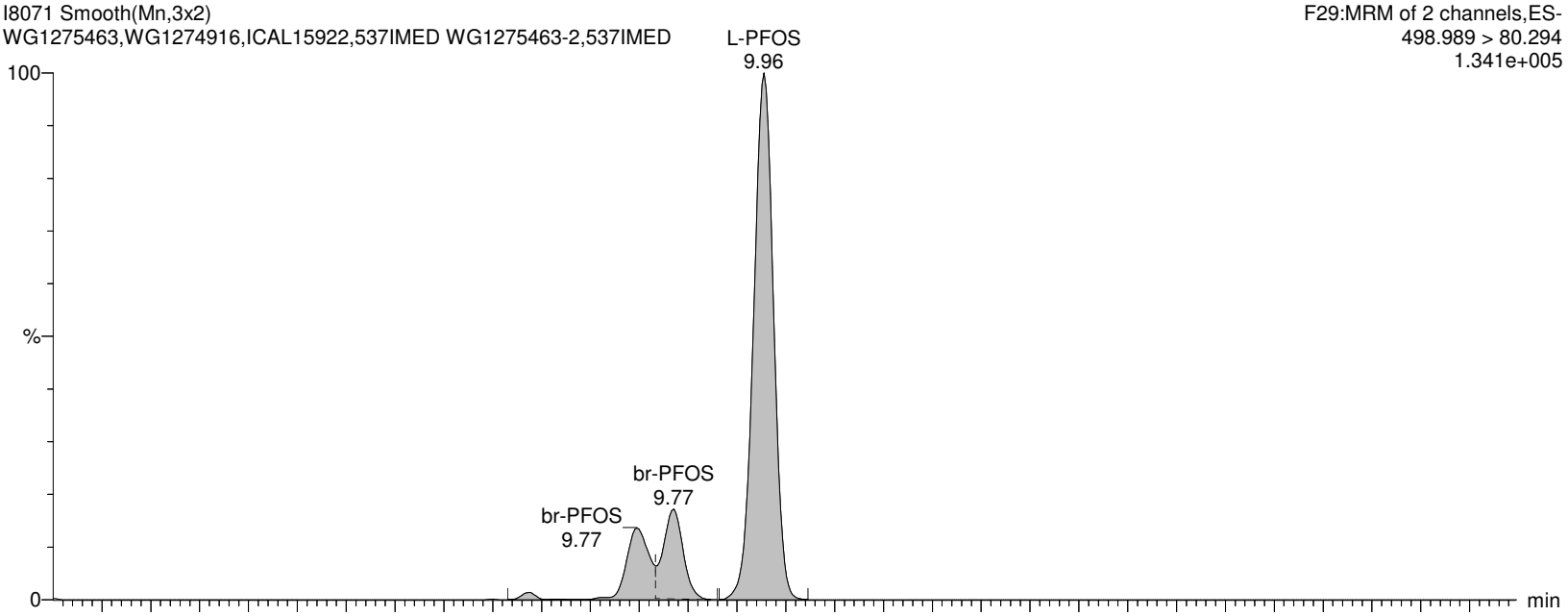


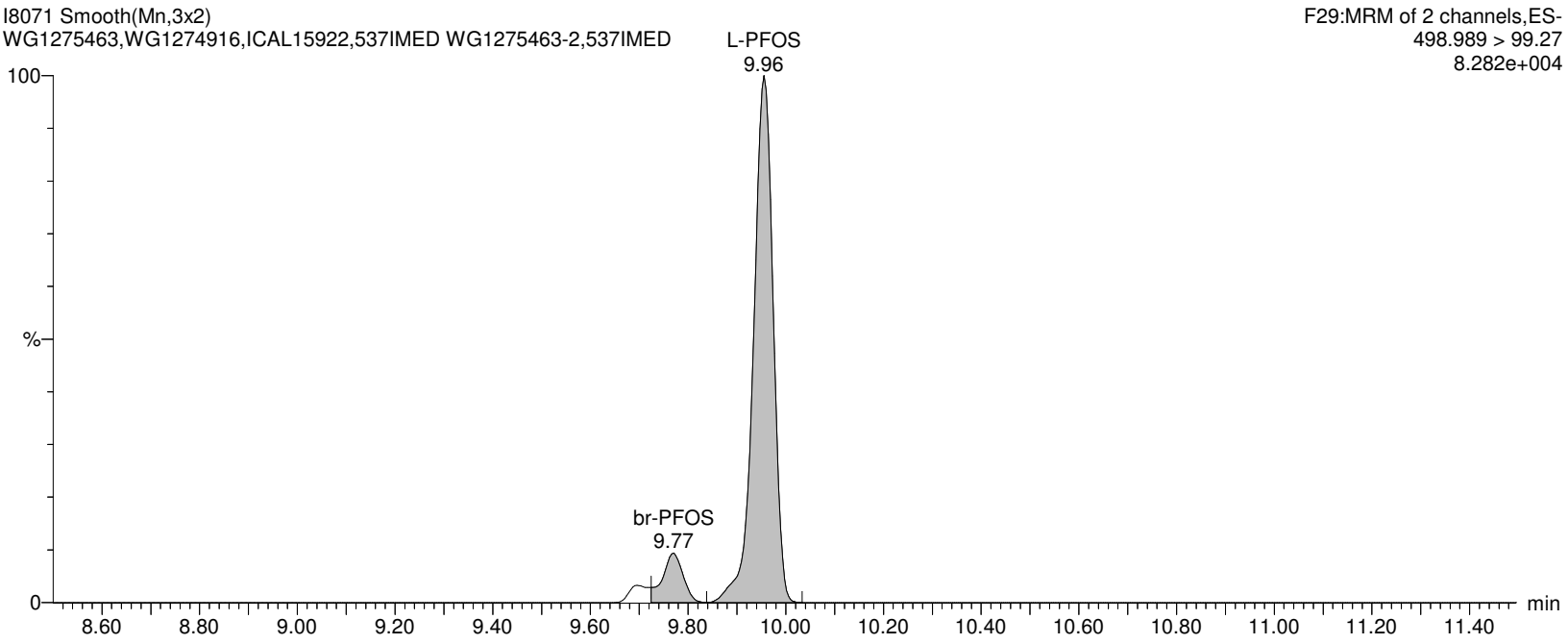
all concentration units in (ng/mL)

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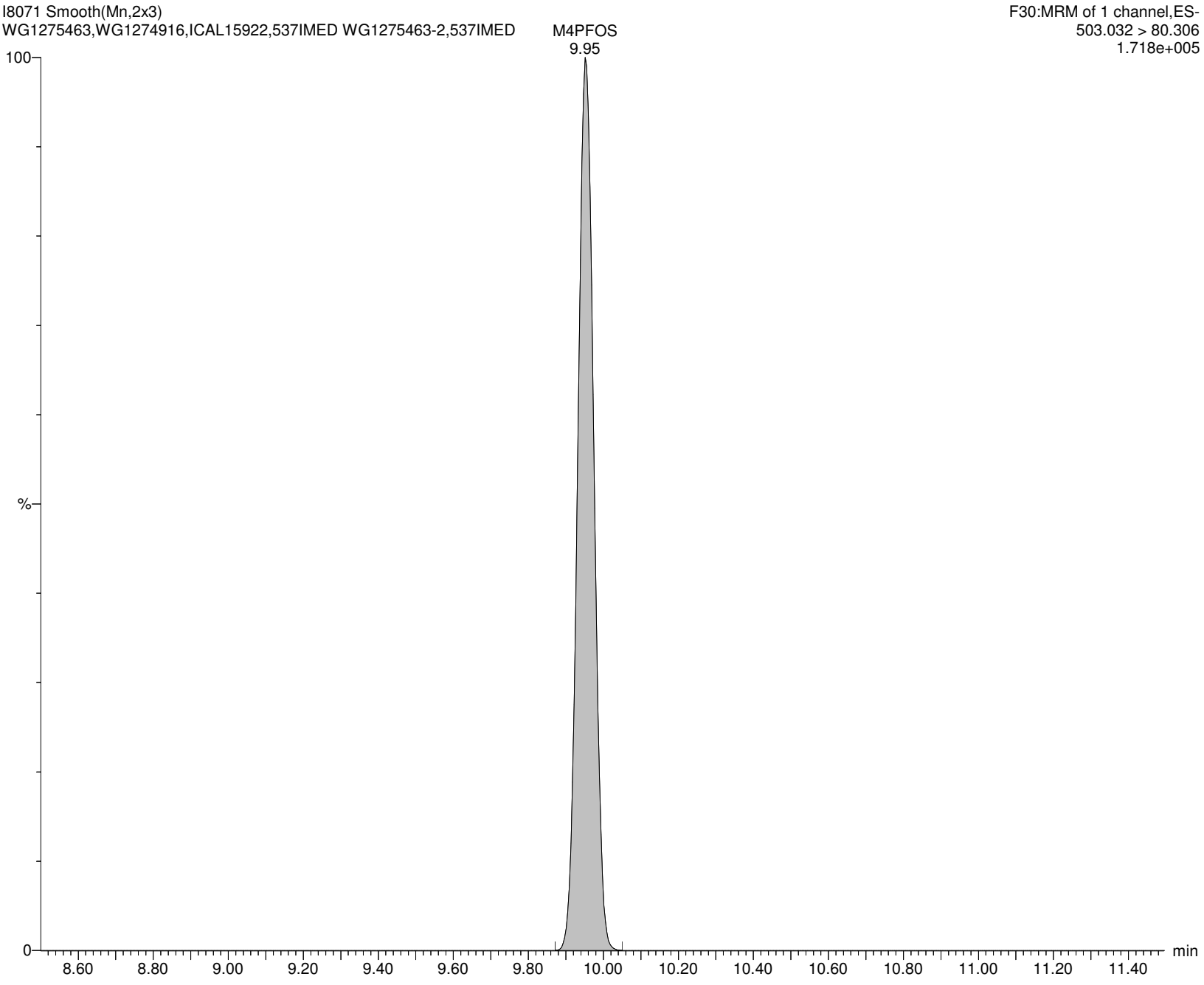


all concentration units in (ng/mL)

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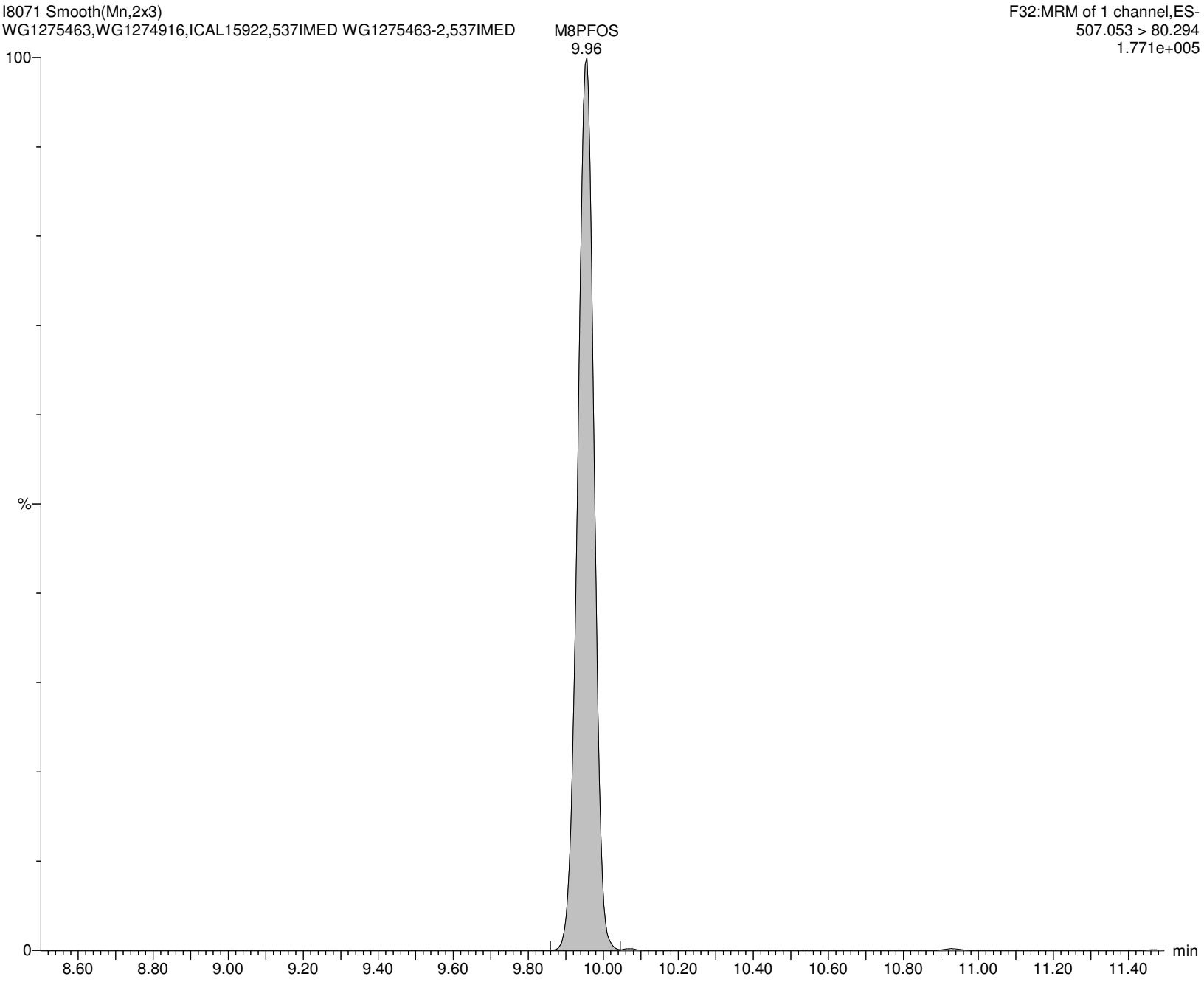


all concentration units in (ng/mL)

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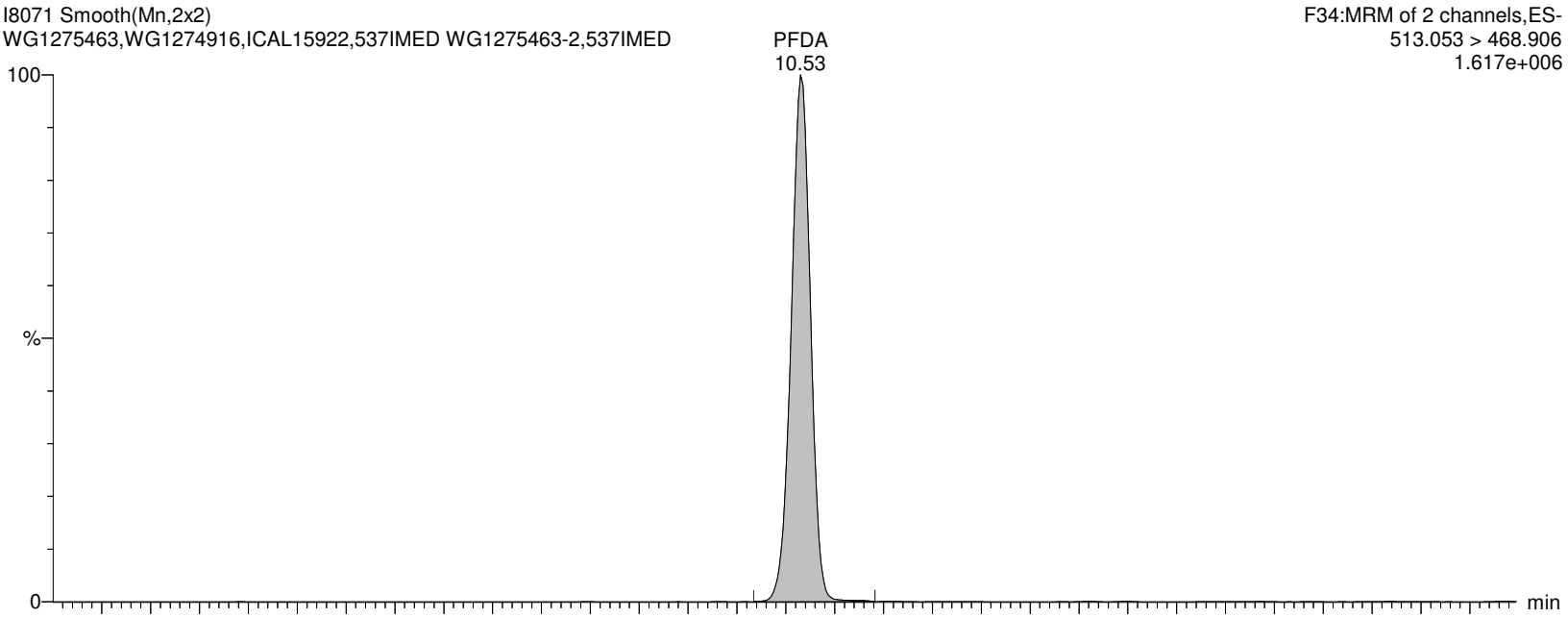


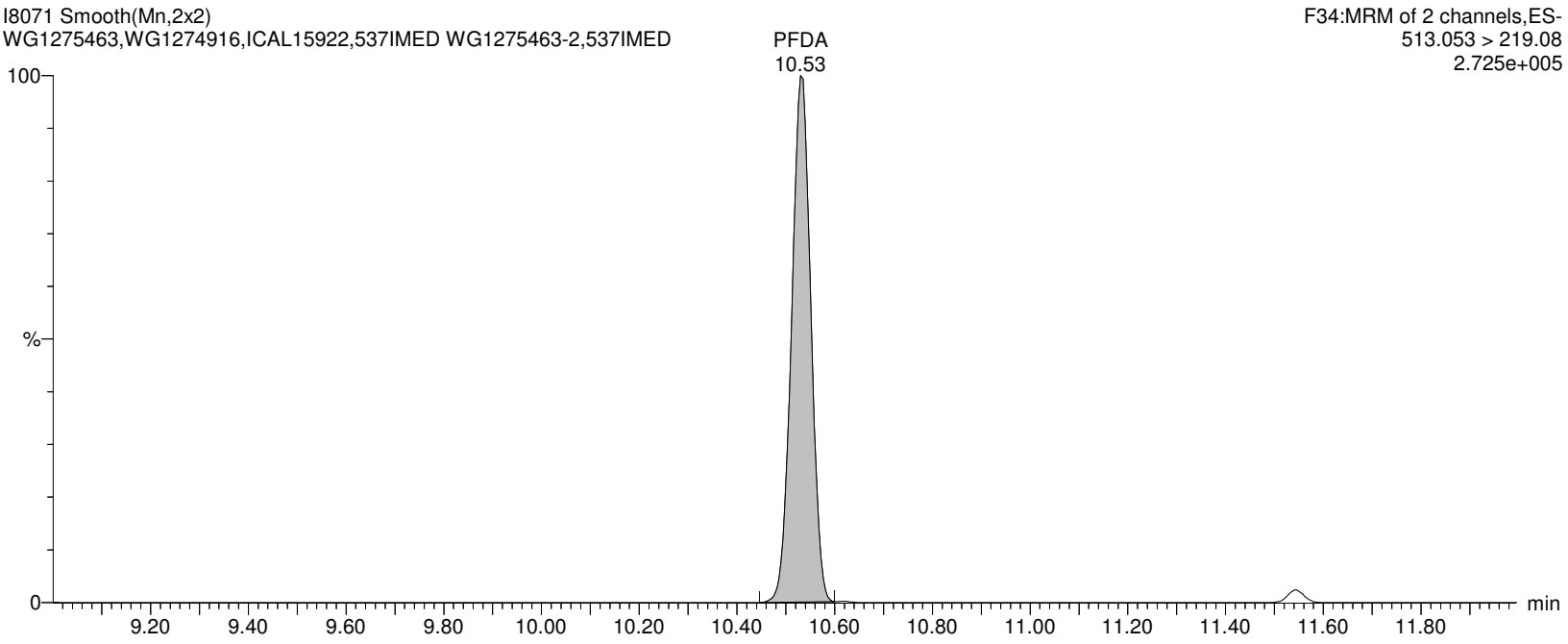
all concentration units in (ng/mL)

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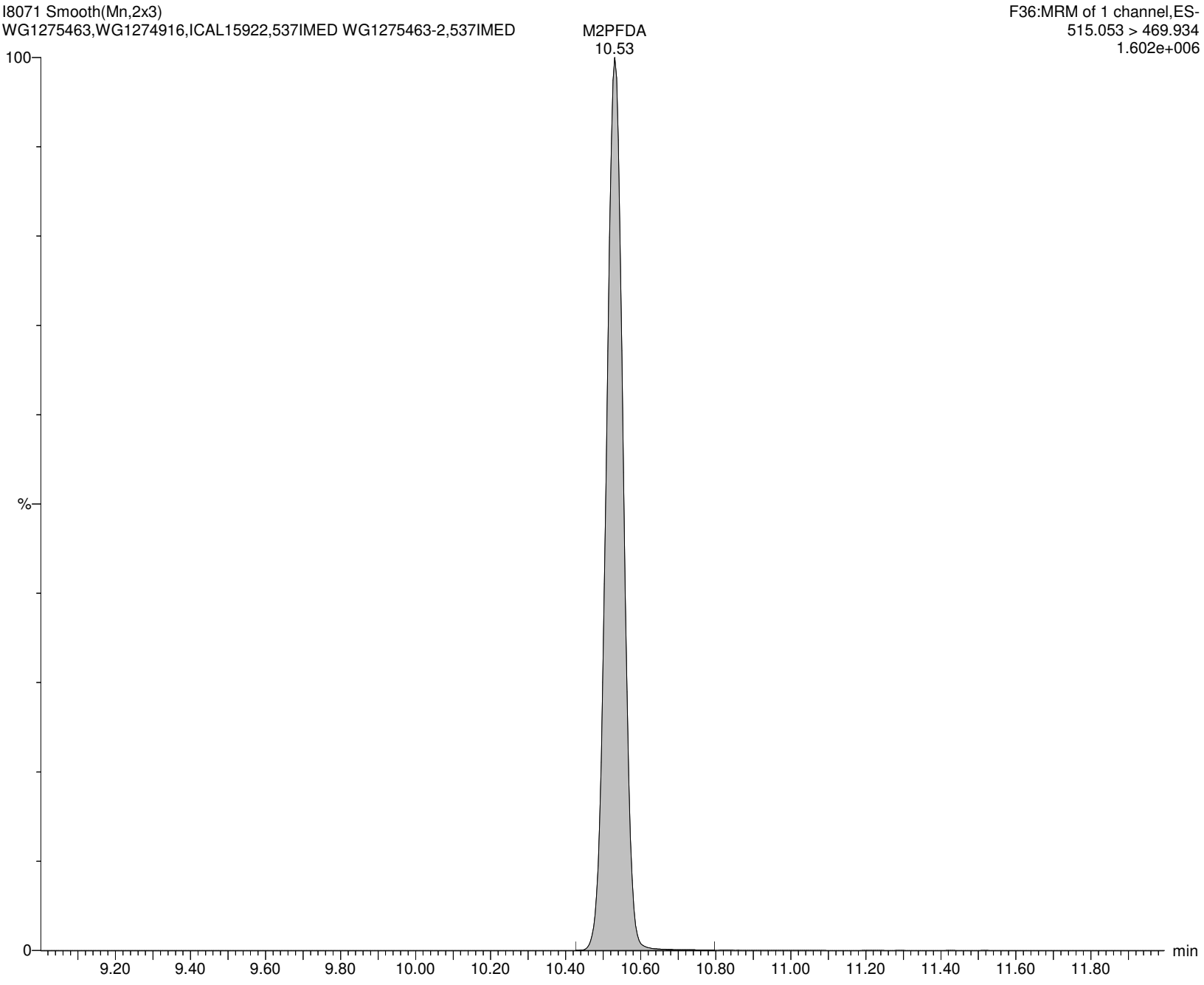


all concentration units in (ng/mL)

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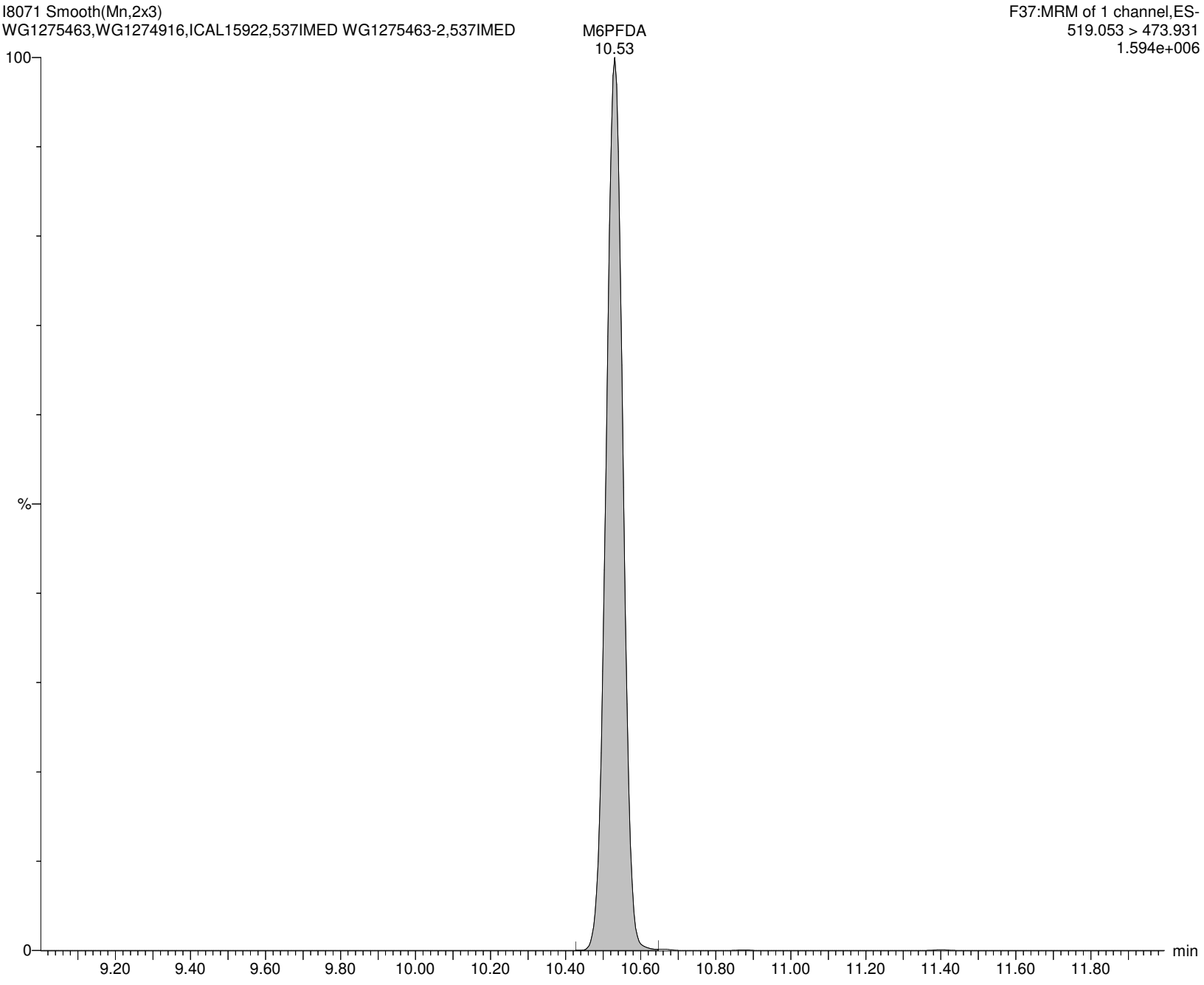


all concentration units in (ng/mL)

Alpha Analytical Inc.
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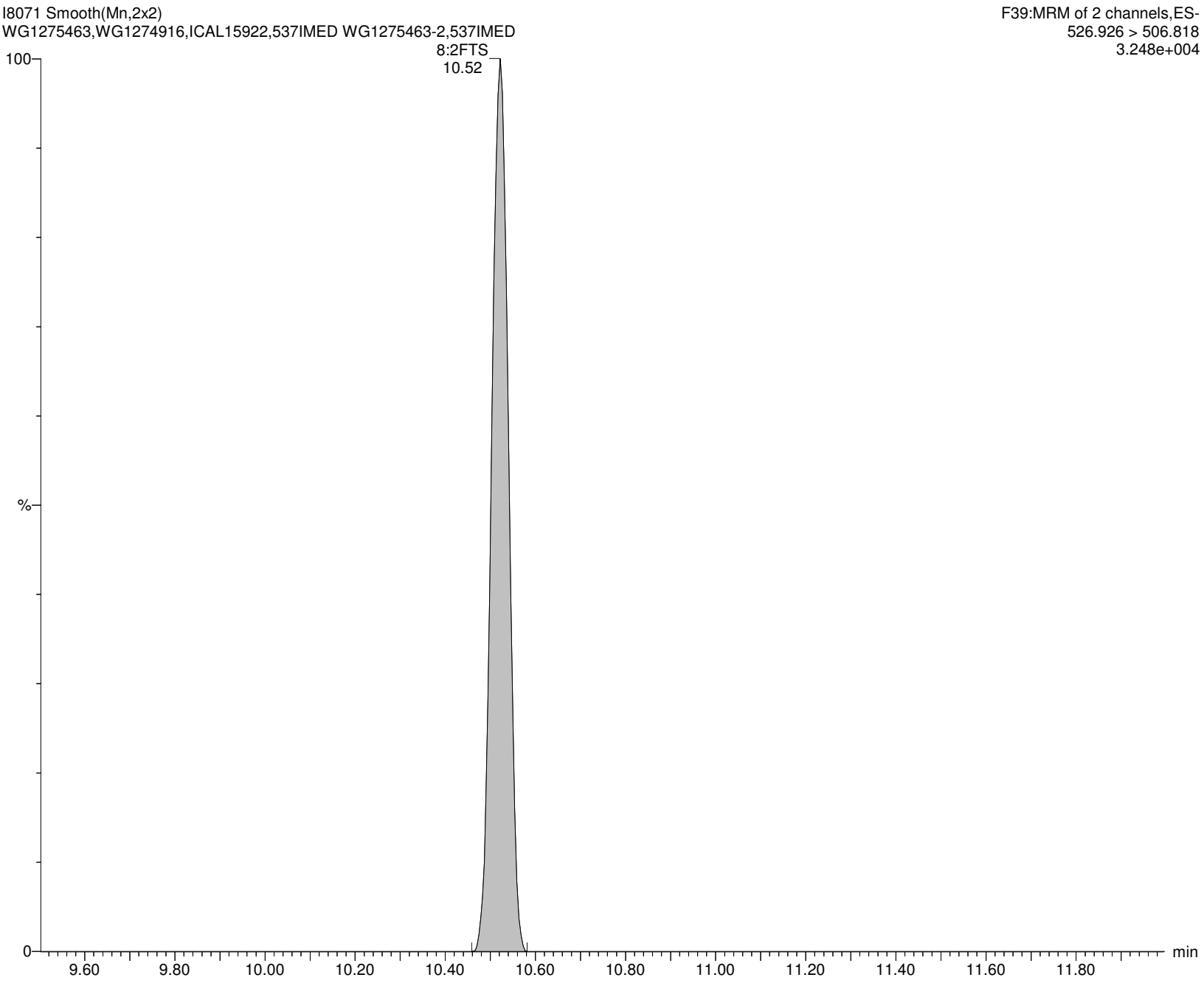


all concentration units in (ng/mL)

Alpha Analytical Inc.
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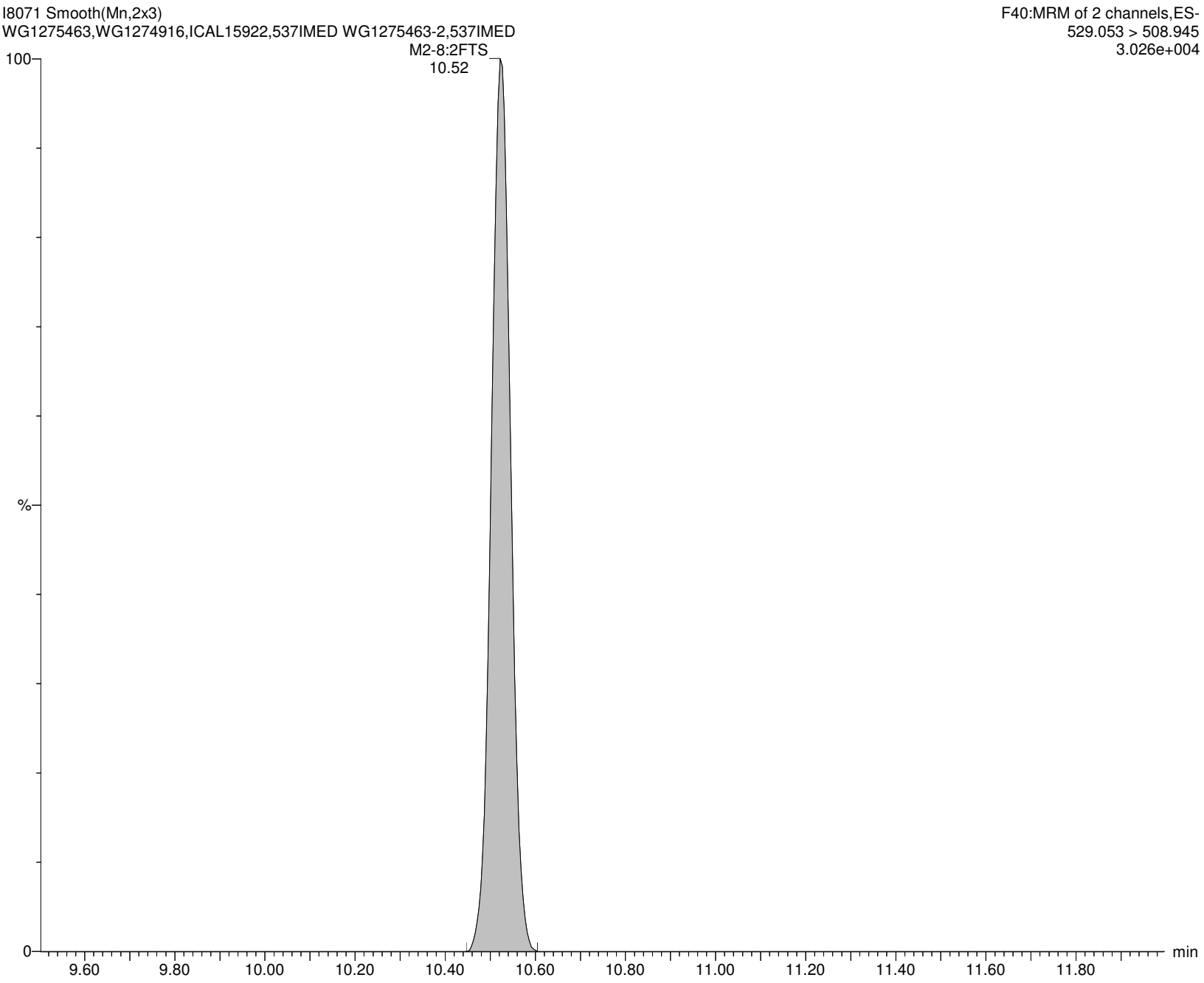


all concentration units in (ng/mL)

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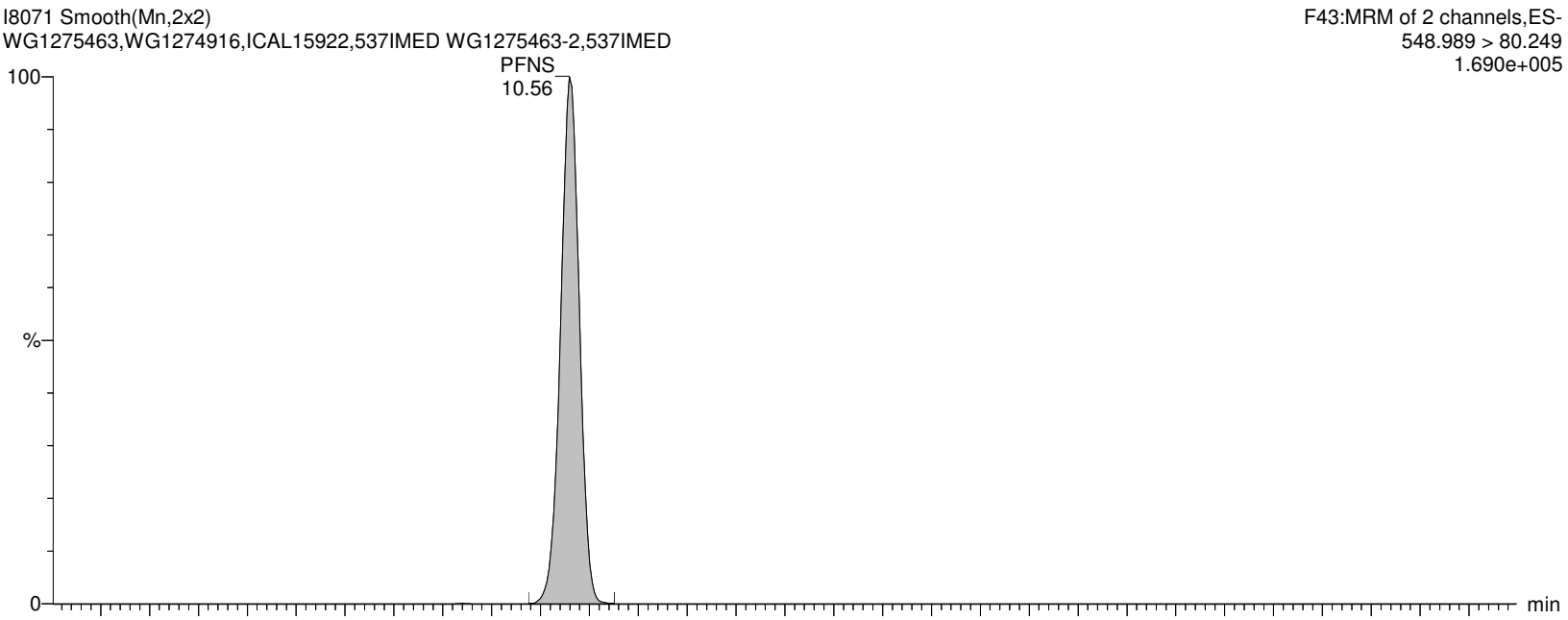


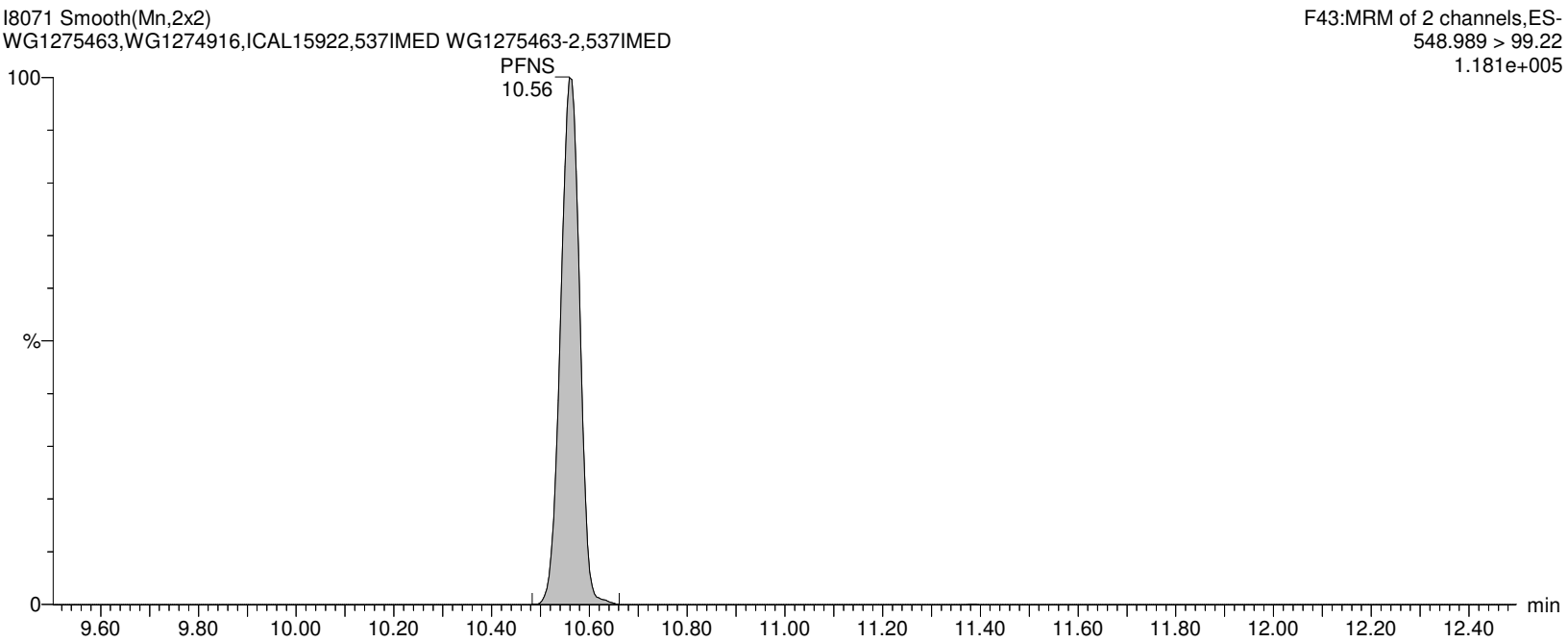
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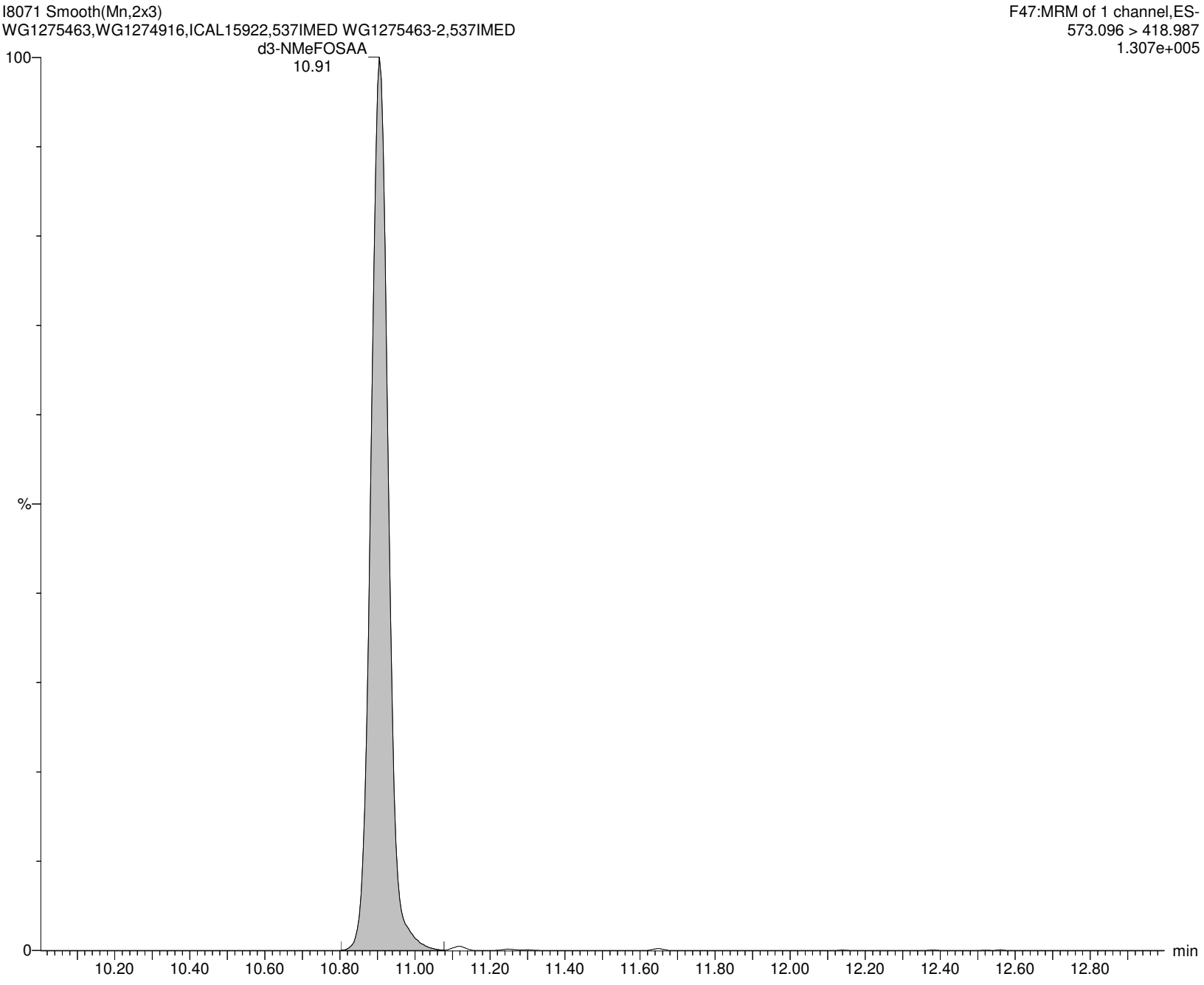


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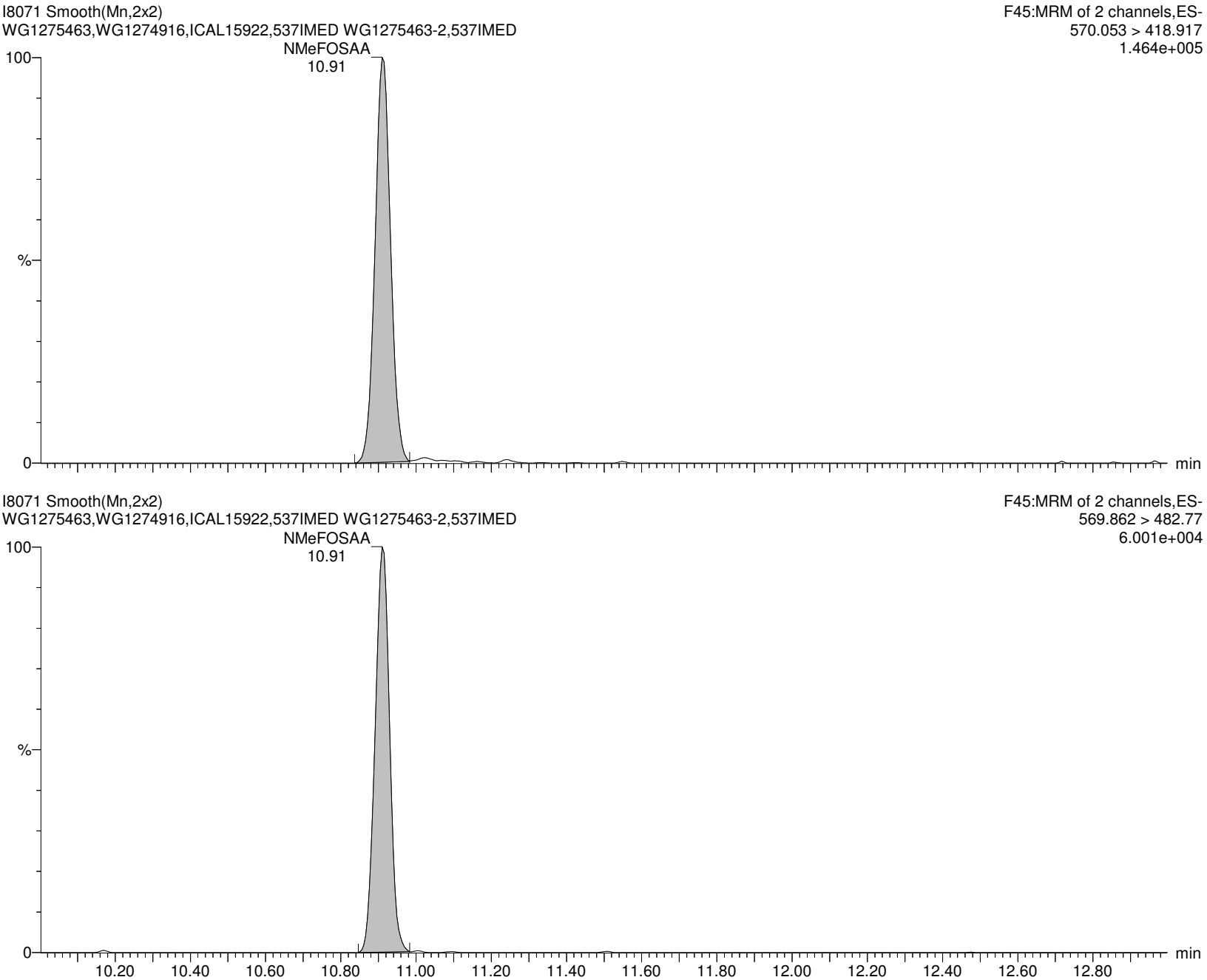


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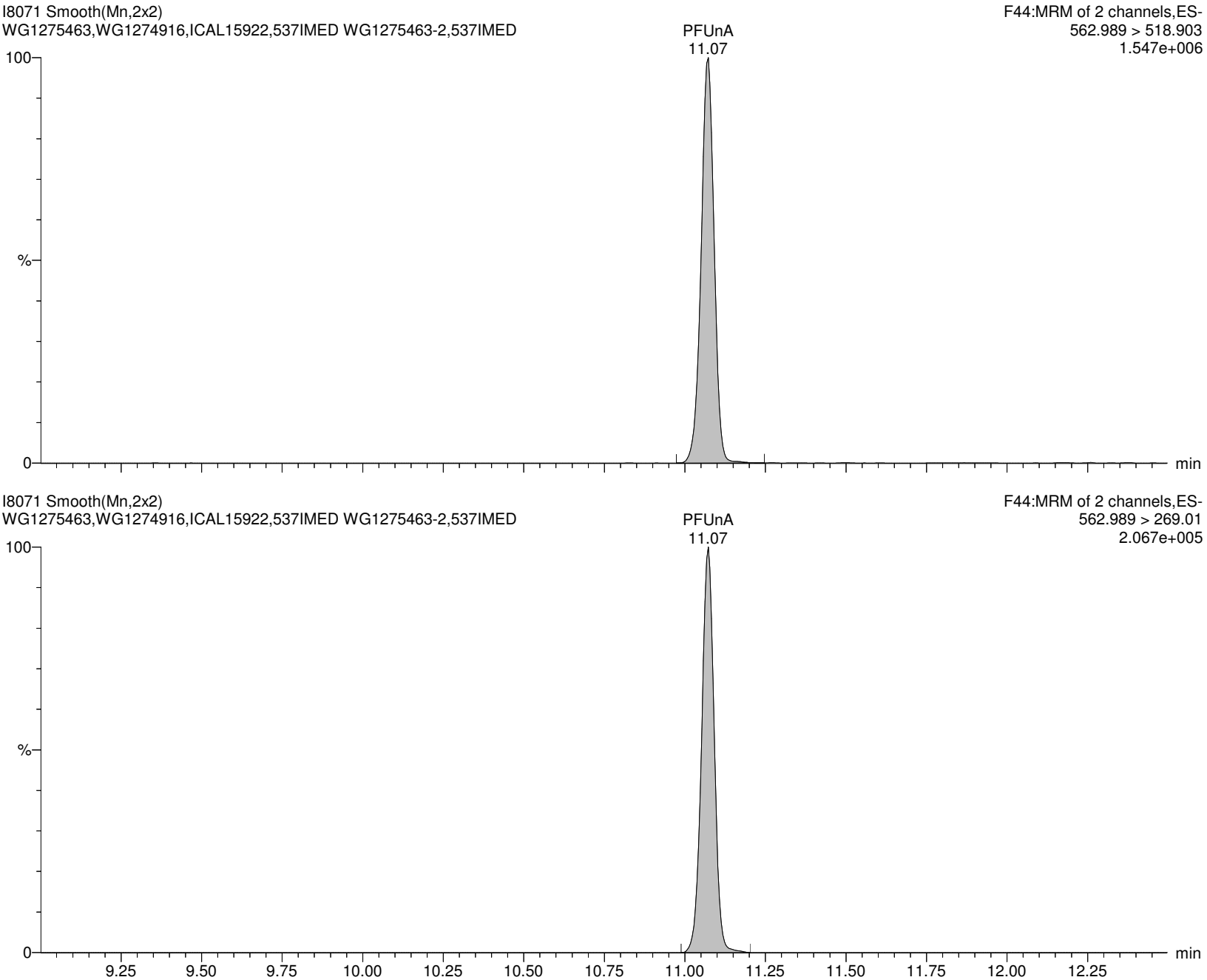


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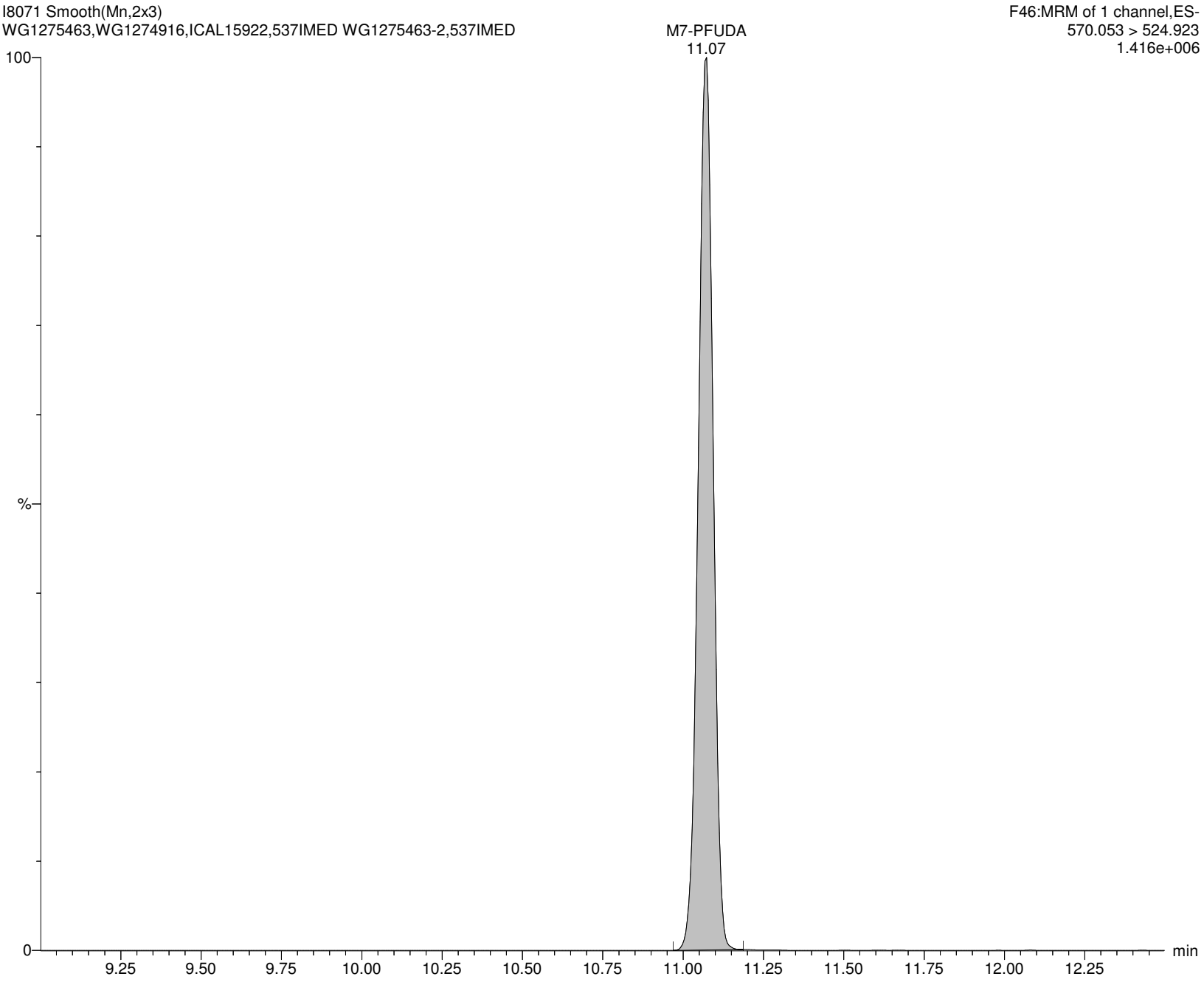


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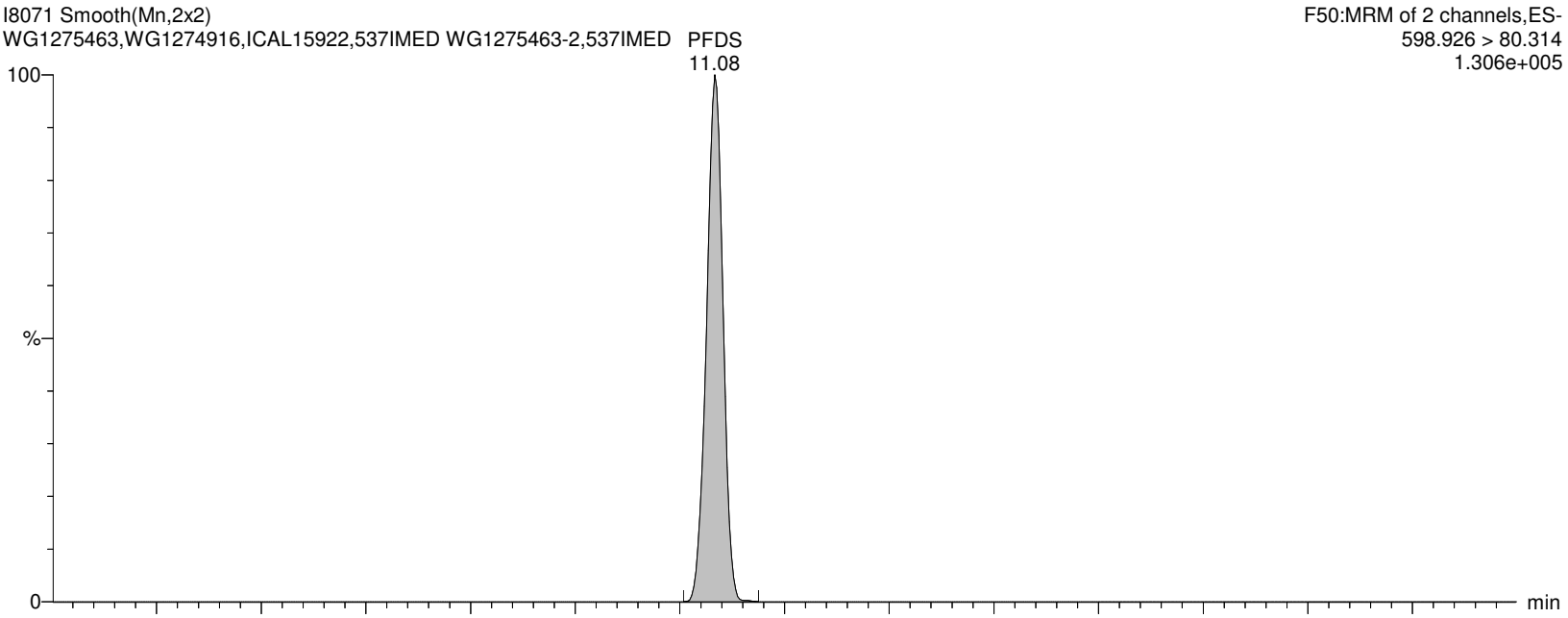


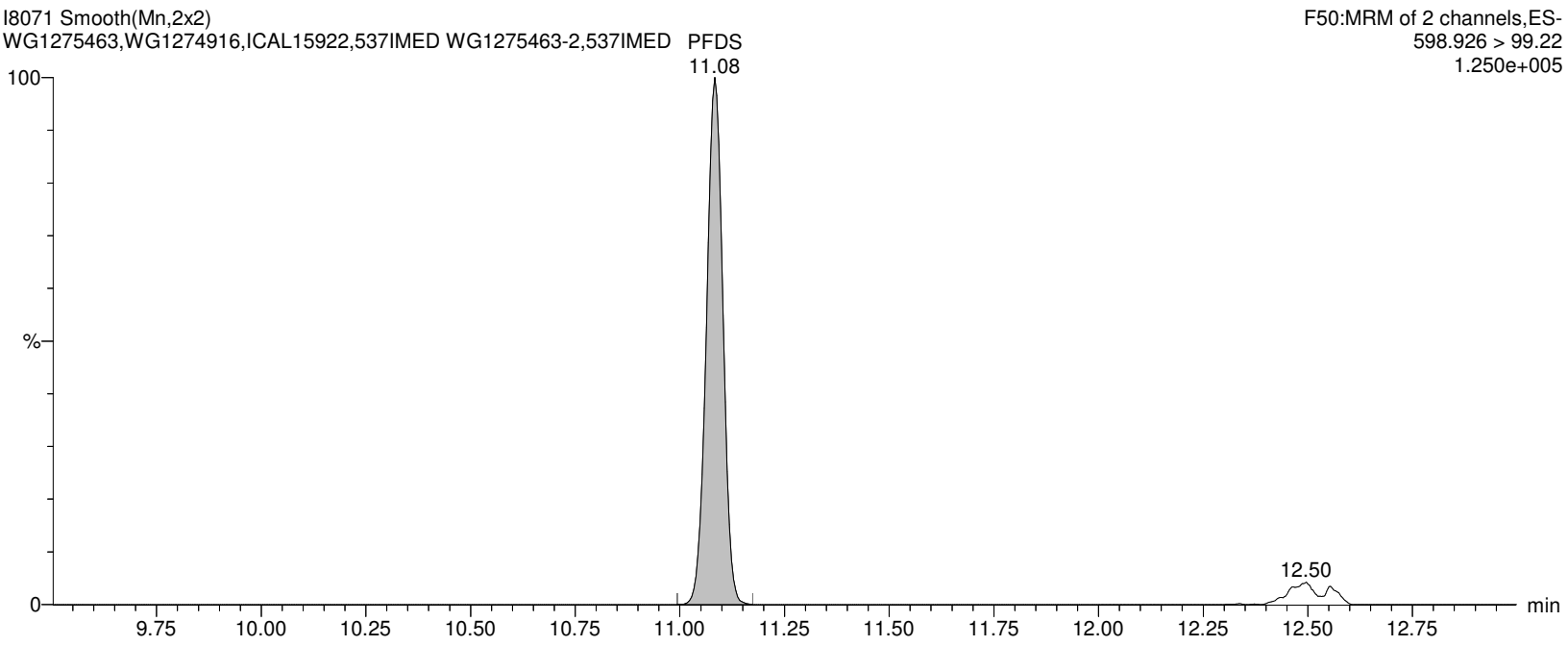
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, August 22, 2019 13:33:10 Eastern Daylight Time
Printed: Thursday, August 22, 2019 13:33:34 Eastern Daylight Time

Name: I8071
ID: WG1275463-2,537IMED
Date: 22-Aug-2019
Time: 13:06:58
Description: WG1275463,WG1274916,ICAL15922,537IMED
User: LCMS02:JW
Vial: 1:A,3
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\181009_TUNE.IPR
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PFDS



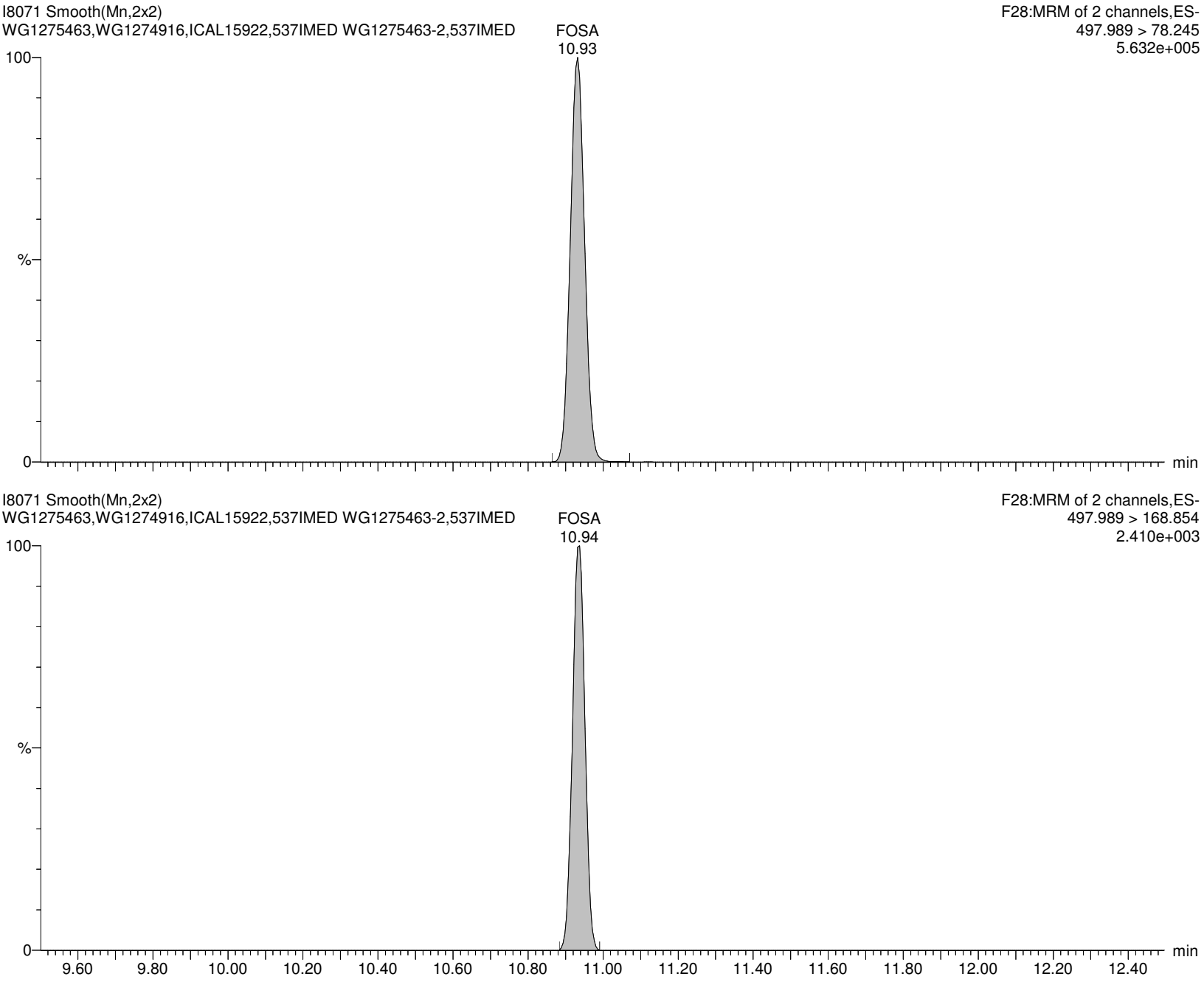


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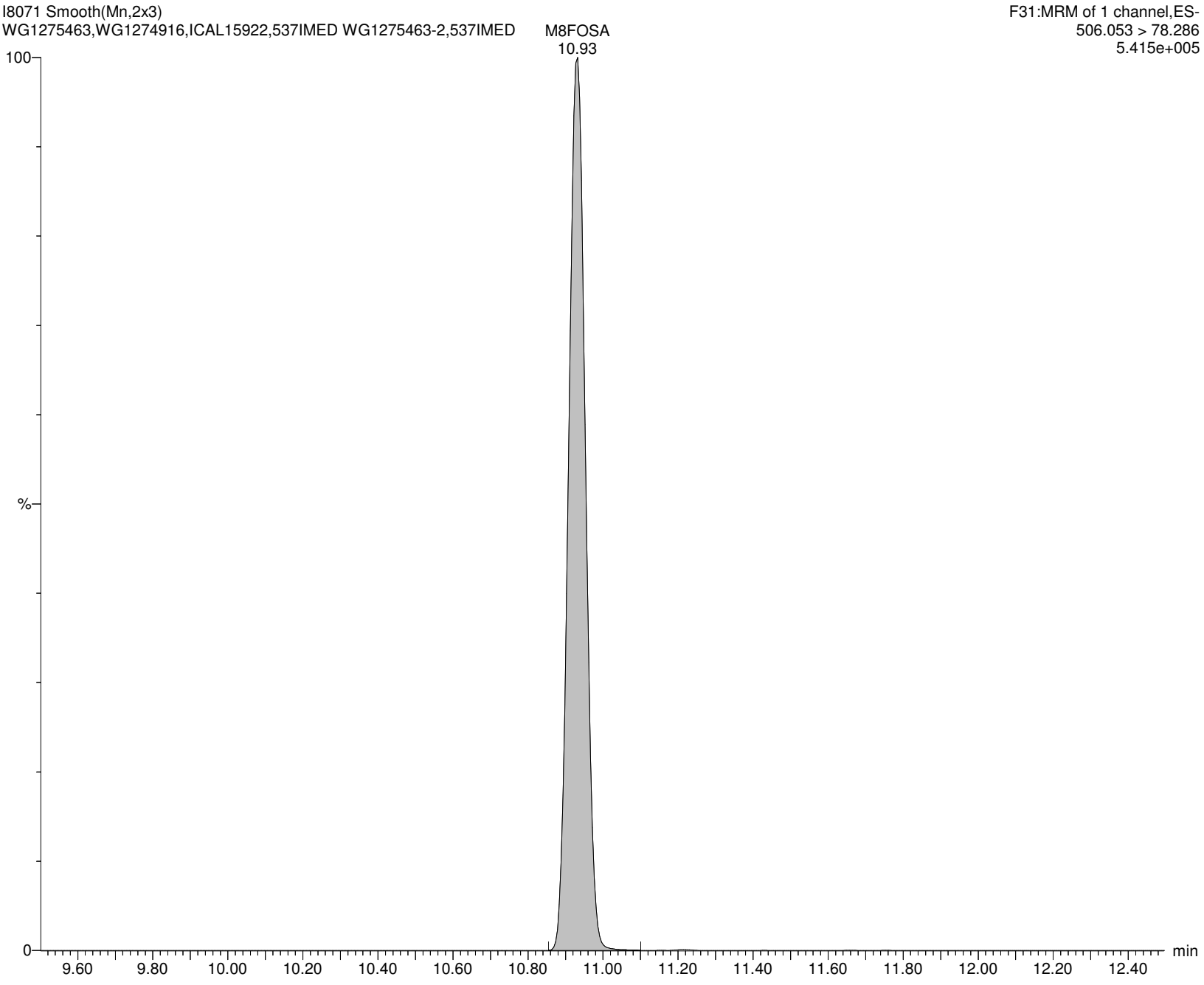


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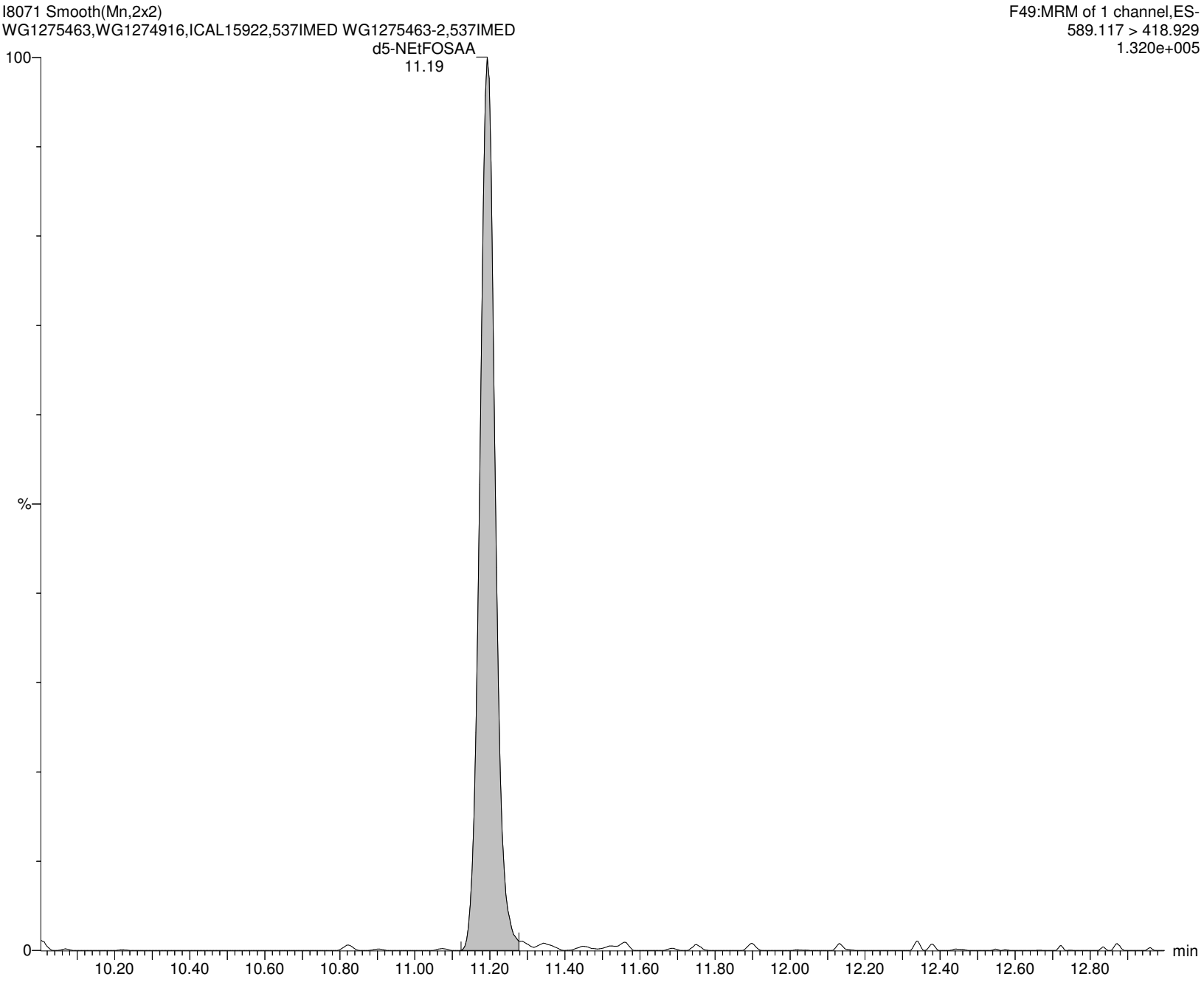


all concentration units in (ng/mL)

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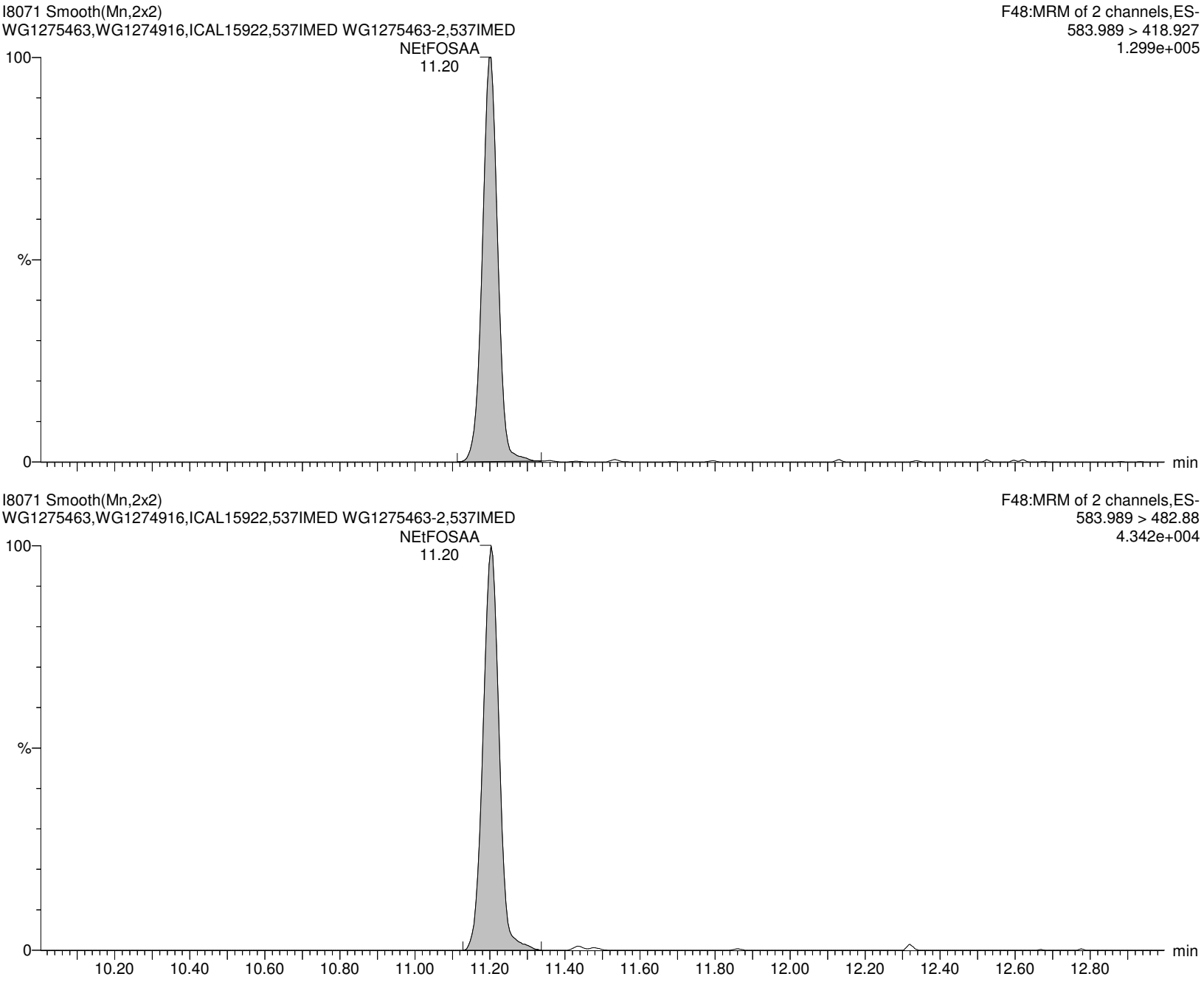


all concentration units in (ng/mL)

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NEtFOSAA

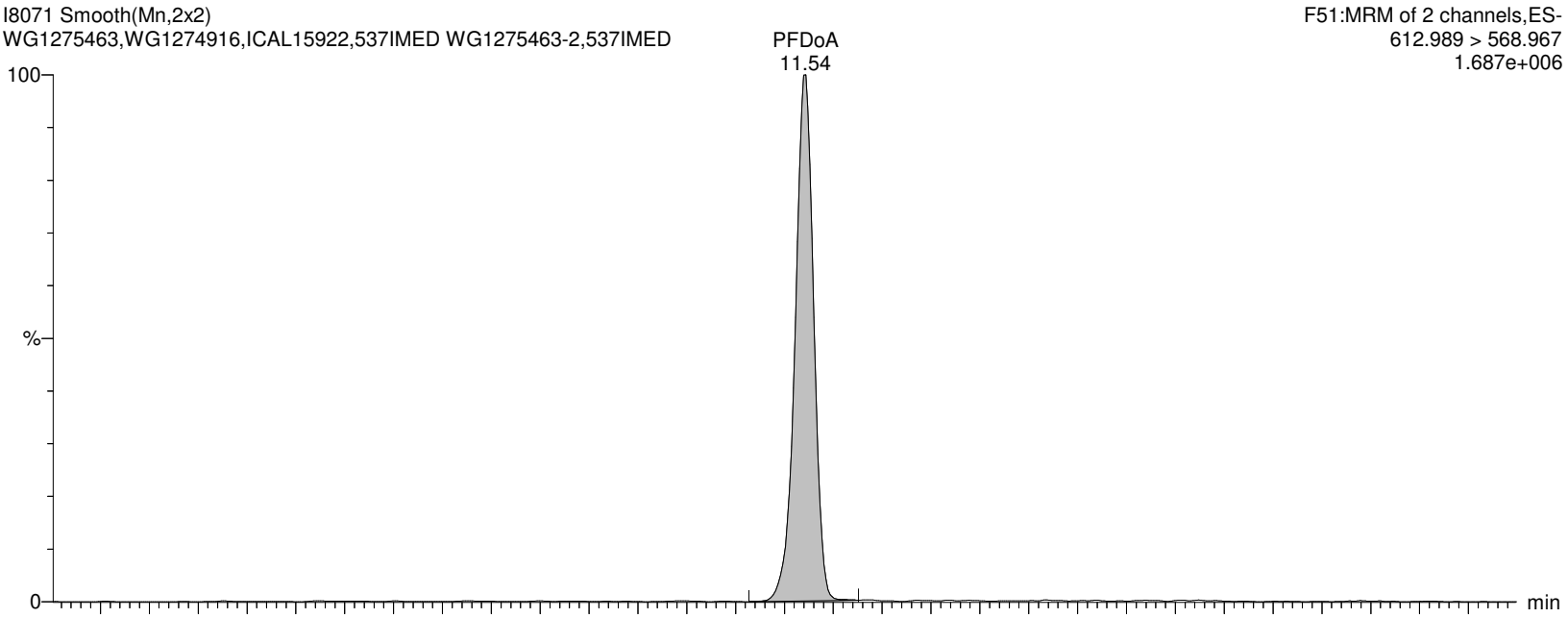


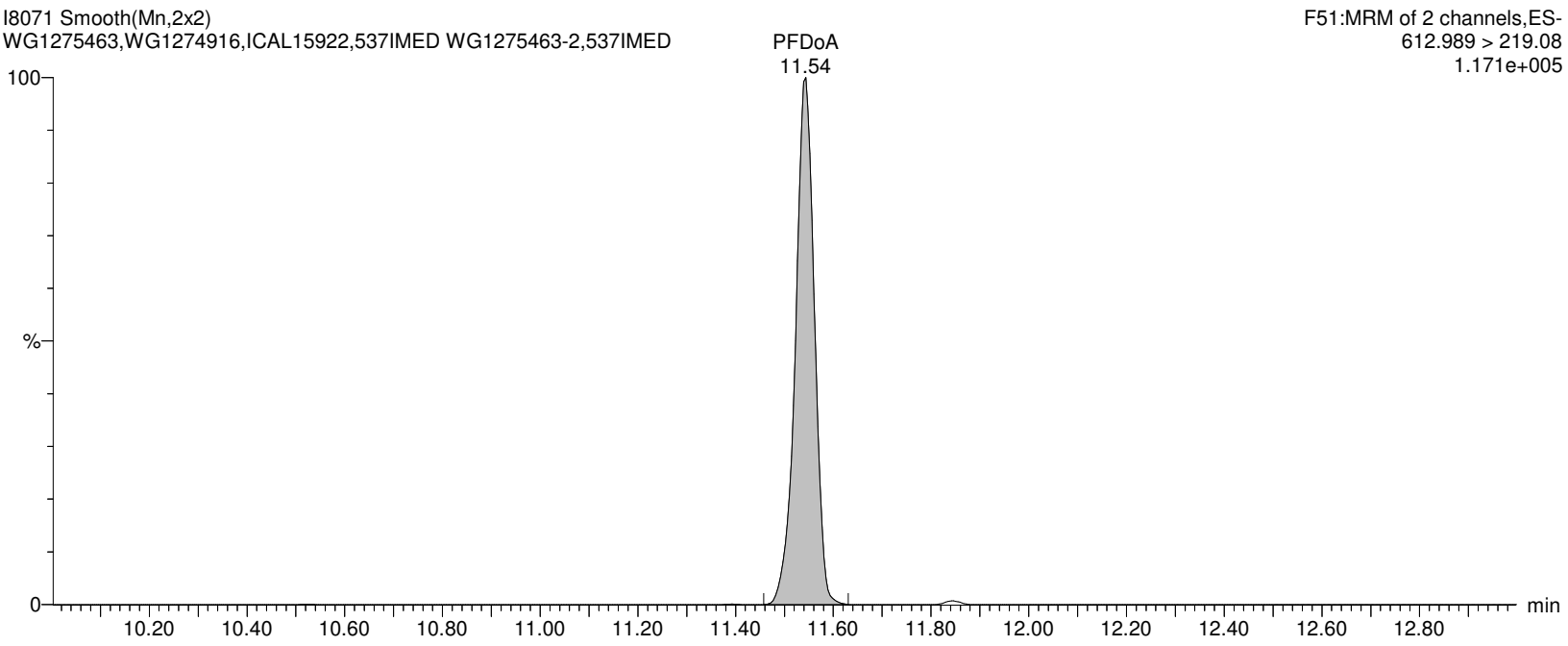
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PFDoA



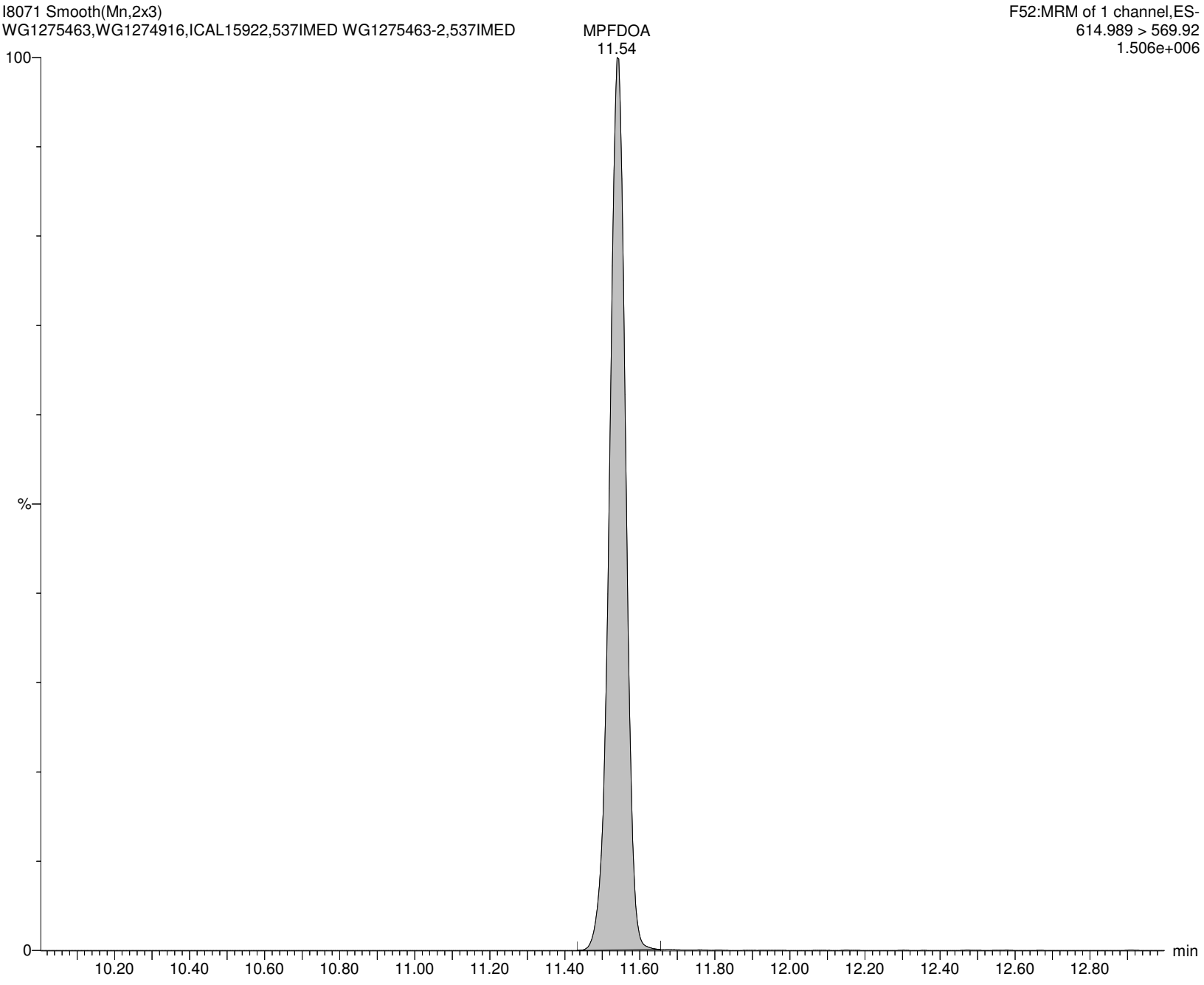


all concentration units in (ng/mL)

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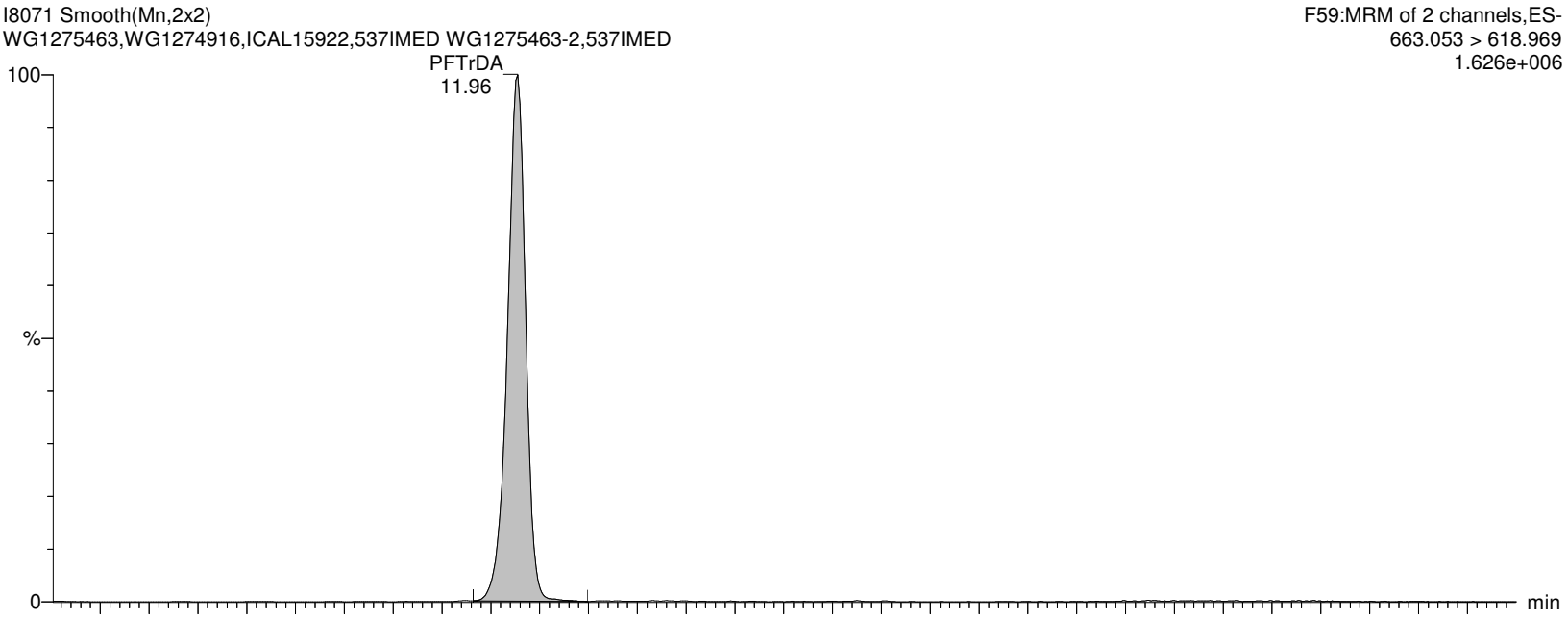


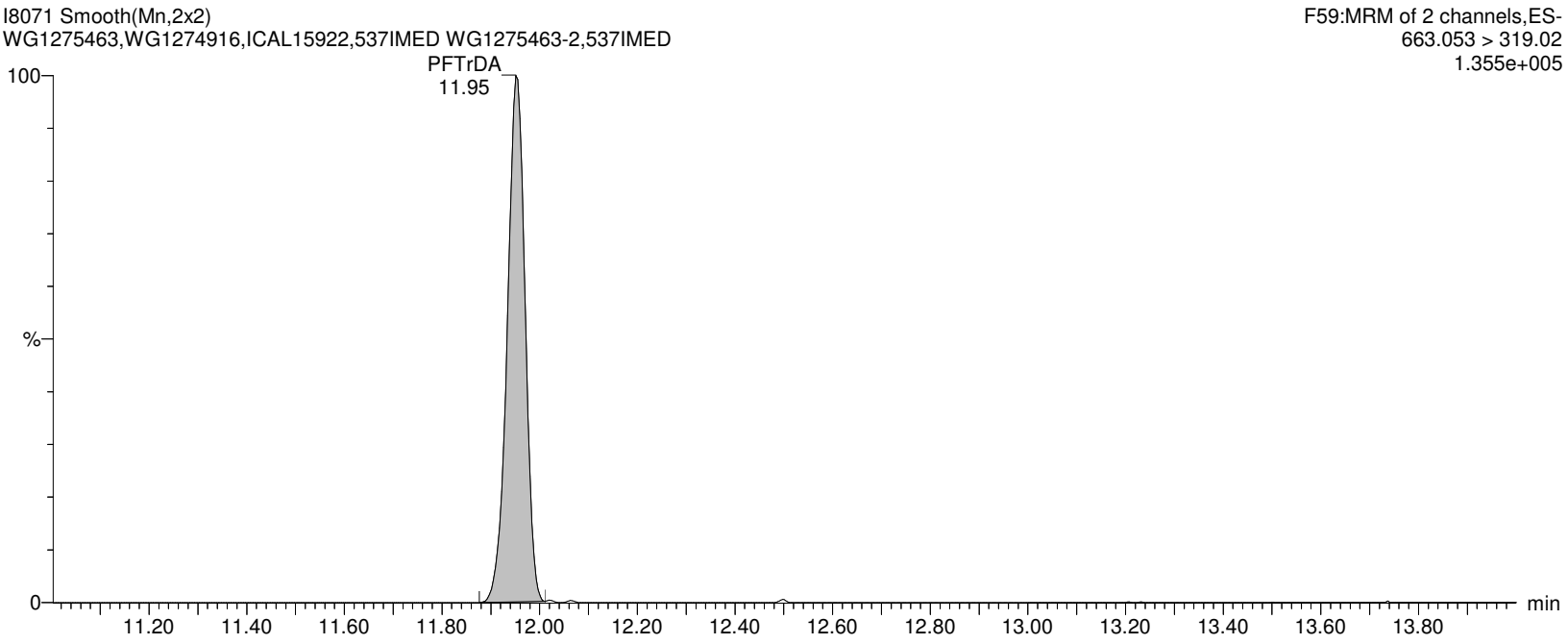
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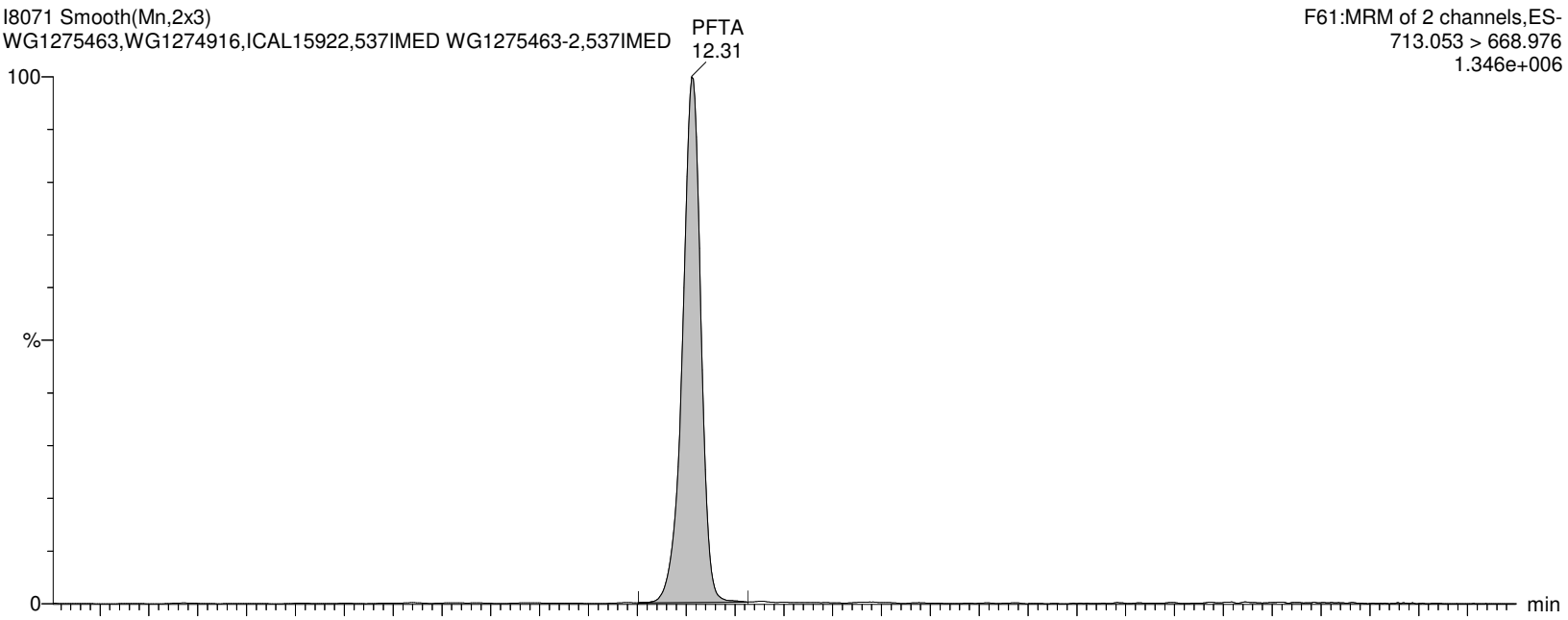


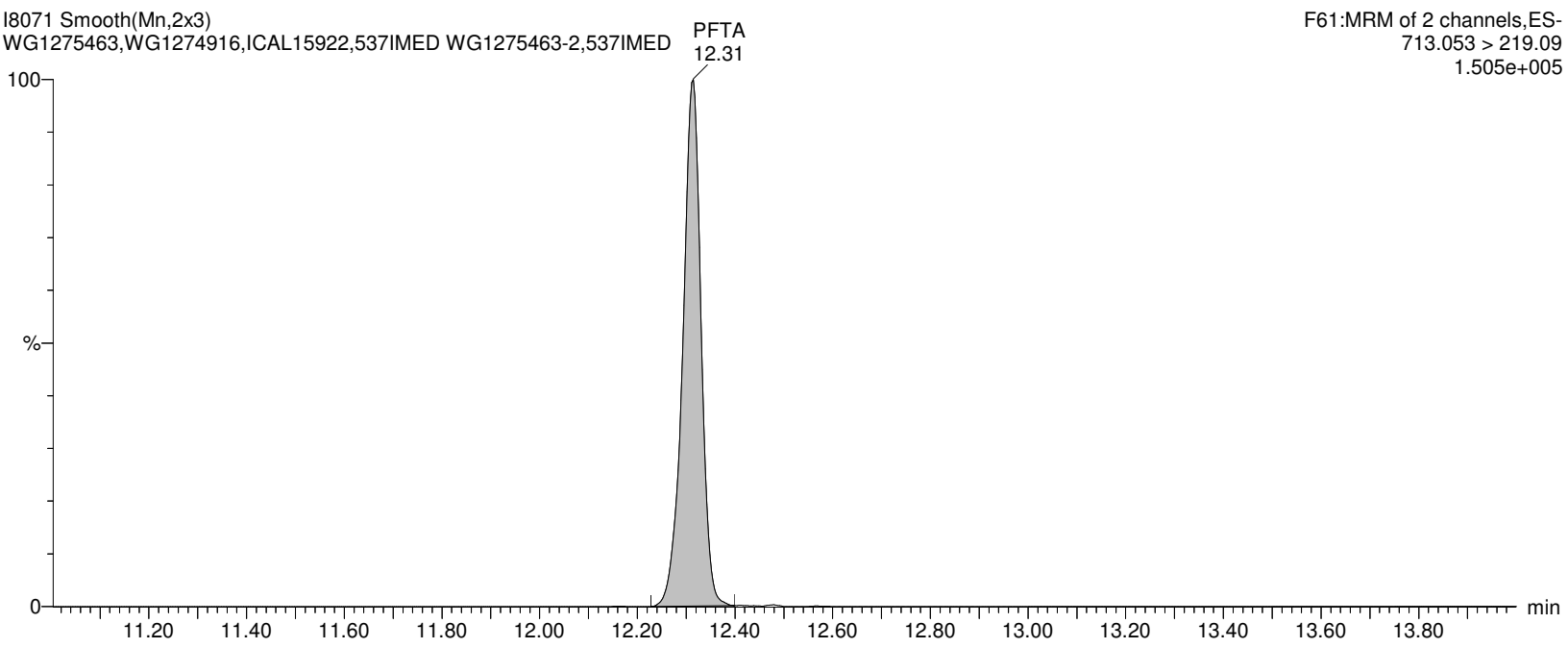
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PFTA



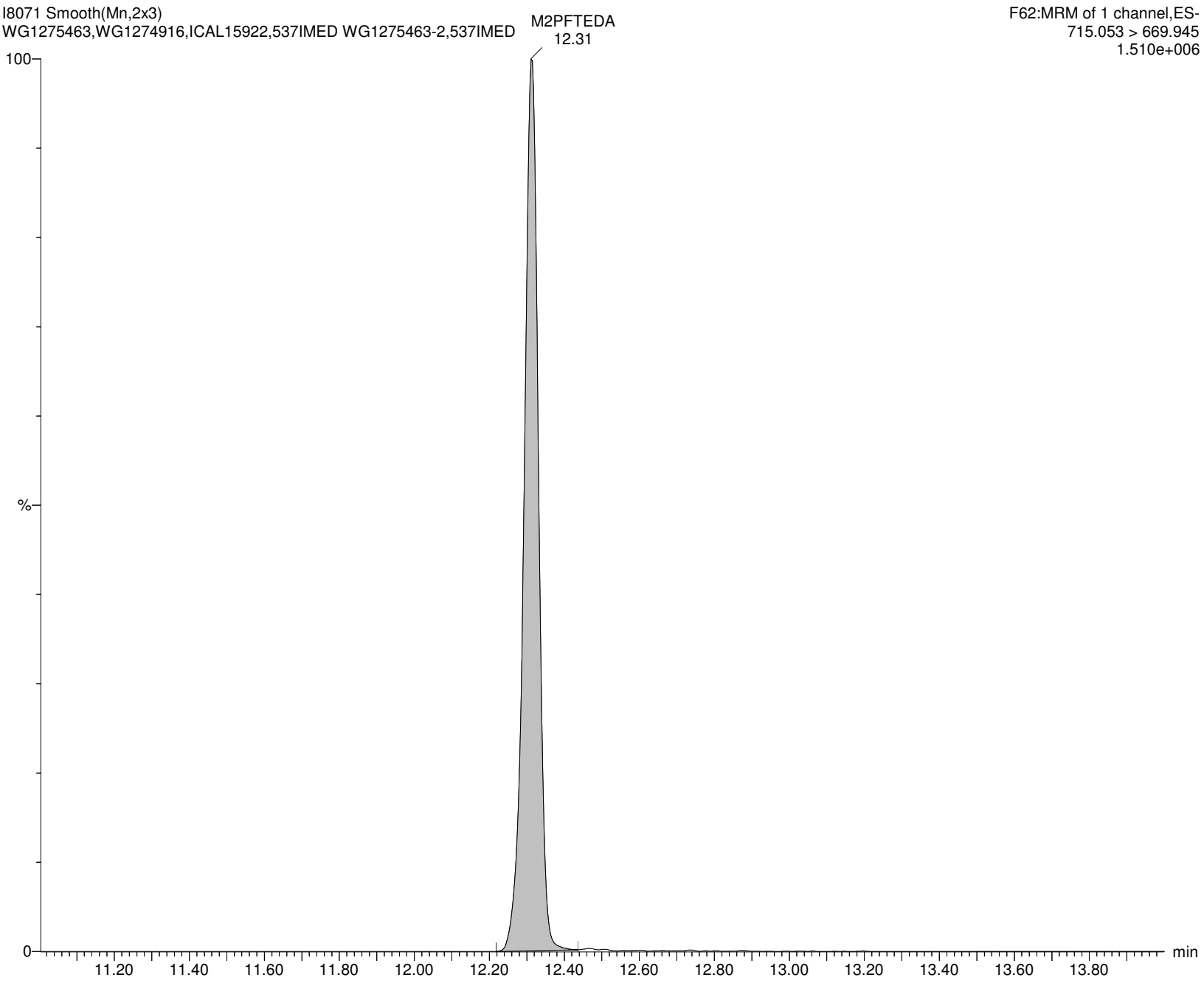


all concentration units in (ng/mL)

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Vial: 1:A,3
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M2PFTEDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\wg1275463b.qld
Last Altered: Friday, August 23, 2019 09:30:32 Eastern Daylight Time
Printed: Friday, August 23, 2019 09:30:48 Eastern Daylight Time

Method: C:\MassLynx\Data\2019\190822_537ISO.PRO\MethDB\537ISO_Q_190702_DODRT.mdb 07 Aug 2019 10:42:09
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ID: WG1275463-3,537ILOW
Name: I8082
Date: 22-Aug-2019
Time: 16:20:56
Description: WG1275463,WG1274916,ICAL15922,537ILOW
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
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MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.09	212.926 > 169.111	1630		0.465		na	92.9
2	M3PFBA	INT STD	2.09	215.926 > 172.122	37402		9.671		na	96.7
3	MPFBA	INT STD	2.09	216.926 > 172.137	38563		9.194		na	91.9
4	PFPeA	2706-90-3	4.98	262.926 > 219.002	2810		0.439		na	87.9
5	M5PFPEA	INT STD	4.98	267.989 > 223.081	62298		10.494		na	104.9
6	PFBS	375-73-5	5.64	298.926 > 79.923	564		0.362	1.79	YES	81.8
7	M3PFBS	INT STD	5.64	301.989 > 80.254	10470		7.759		na	77.6
8	4:2FTS	757124-72-4	6.82	326.926 > 306.957	122		0.376	1.75	NO	80.4
9	M2-4:2FTS	INT STD	6.82	329.117 > 309.079	3137		3.879		na	38.8
10	PFHxA	307-24-4	6.90	312.989 > 269.028	4518		0.559		YES	111.8
11	M5PFHxA	INT STD	6.90	317.989 > 273.045	81795		8.794		na	87.9
12	PFPeS	2706-91-4	7.22	348.926 > 80.251	525		0.416	1.79	NO	88.5
13	PFHpA	375-85-9	8.19	362.926 > 319.014	4748		0.454	6.33	NO	90.8
14	M4PFHpA	INT STD	8.19	366.926 > 321.979	104882		8.851		na	88.5
15	br-PFHxS	355-46-4	8.12	398.926 > 80.295	54	m5	0.083		YES	97.6
16	L-PFHxS	355-46-4	8.35	398.926 > 80.295	353		0.368	2.13	YES	99.4
17	PFHxS	355-46-4		398.926 > 80.295	407		0.451		na	
18	M3PFHxS	INT STD	8.35	401.926 > 80.317	7087		8.473		na	84.7
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1	9.14	412.989 > 368.9	4934		0.489	10.42	NO	97.9
21	M2PFOA	INT STD	9.14	415.032 > 369.968	110323		12.100		na	121.0
22	PFOA	335-67-1		412.989 > 368.9	4934		0.489		na	
23	M8PFOA	INT STD	9.14	420.989 > 375.979	101573		9.267		na	92.7
24	6:2FTS	27619-97-2	9.10	426.989 > 406.921	112		0.558		YES	117.5
25	M2-6:2FTS	INT STD	9.10	428.989 > 408.917	2500		3.431		na	34.3
26	PFHpS	375-92-8	9.24	448.926 > 80.257	266		0.365	0.88	NO	76.8
27	PFNA	375-95-1	9.90	462.989 > 418.931	4058		0.457	4.12	NO	91.5
28	M9PFNA	INT STD	9.90	472.053 > 426.947	97772		9.632		na	96.3
29	br-PFOS	1763-23-1	9.78	498.989 > 80.294	47	m5	0.043	0.29	NO	42.6
30	L-PFOS	1763-23-1	9.95	498.989 > 80.294	362		0.345		YES	94.5
31	PFOS	1763-23-1		498.989 > 80.294	409		0.388		na	
32	M4PFOS	INT STD	9.95	503.032 > 80.306	10139		13.632		na	136.3
33	M8PFOS	INT STD	9.95	507.053 > 80.294	10185		9.327		na	93.3
34	PFDA	335-76-2	10.53	513.053 > 468.906	4271		0.500	6.93	NO	100.0
35	M2PFDA	INT STD	10.53	515.053 > 469.934	91535		12.798		na	128.0
36	M6PFDA	INT STD	10.53	519.053 > 473.931	94500		9.233		na	92.3
37	8:2FTS	39108-34-4	10.51	526.926 > 506.818	78	m5	0.430		na	89.7
38	M2-8:2FTS	INT STD	10.52	529.053 > 508.945	1666		4.167		na	41.7
39	PFNS	68259-12-1	10.55	548.989 > 80.249	365		0.361	1.28	NO	75.2

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MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.91	573.096 > 418.987	7761		7.641		na	76.4
41	NMeFOSAA	2355-31-9	10.91	570.053 > 418.917	374	m5	0.475	8.90	YES	95.0
42	PFUnA	2058-94-8	11.07	562.989 > 518.903	4174		0.488	9.55	NO	97.6
43	M7-PFUDA	INT STD	11.07	570.053 > 524.923	83288		9.203		na	92.0
44	PFDS	335-77-3	11.08	598.926 > 80.314	324		0.431	1.16	YES	89.4
45	FOSA	754-91-6	10.93	497.989 > 78.245	1206		0.366		YES	73.3
46	M8FOSA	INT STD	10.93	506.053 > 78.286	28667		9.411		na	94.1
47	d5-NEtFOSAA	INT STD	11.19	589.117 > 418.929	6904		7.502		na	75.0
48	NEtFOSAA	2991-50-6	11.20	583.989 > 418.927	328		0.470	3.61	NO	94.0
49	PFDoA	307-55-1	11.54	612.989 > 568.967	3985		0.480	12.32	NO	96.0
50	MPFDOA	INT STD	11.54	614.989 > 569.92	86496		8.632		na	86.3
51	PFTrDA	72629-94-8	11.96	663.053 > 618.969	3778		0.485	11.32	NO	96.9
52	PFTA	376-06-7	12.31	713.053 > 668.976	3548		0.549	10.88	NO	109.9
53	M2PFTEDA	INT STD	12.31	715.053 > 669.945	74271		8.772		na	87.7

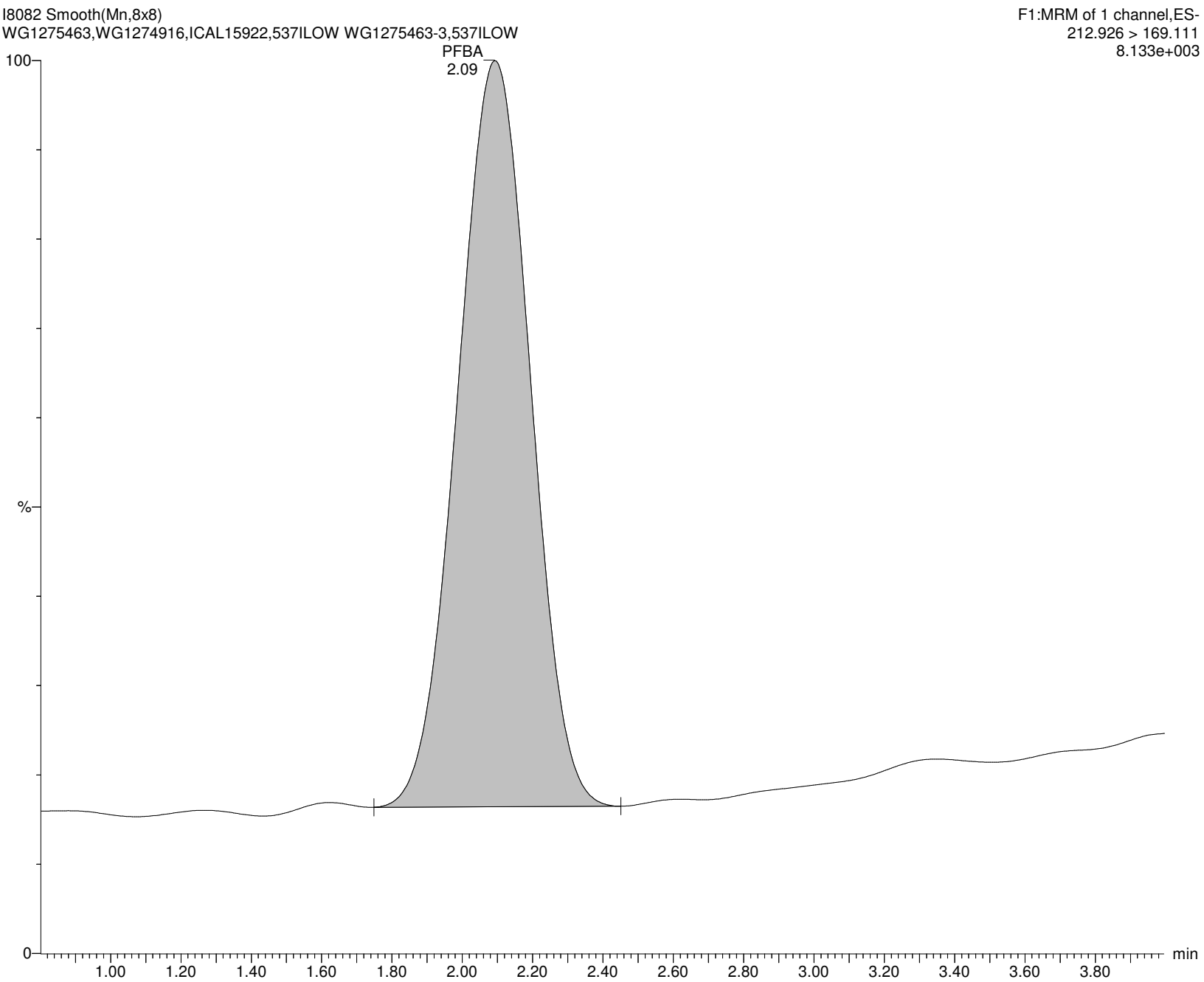
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Printed: Friday, August 23, 2019 09:30:48 Eastern Daylight Time

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Date: 22-Aug-2019
Time: 16:20:56
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User: LCMS02:JW
Vial: 1:A,2
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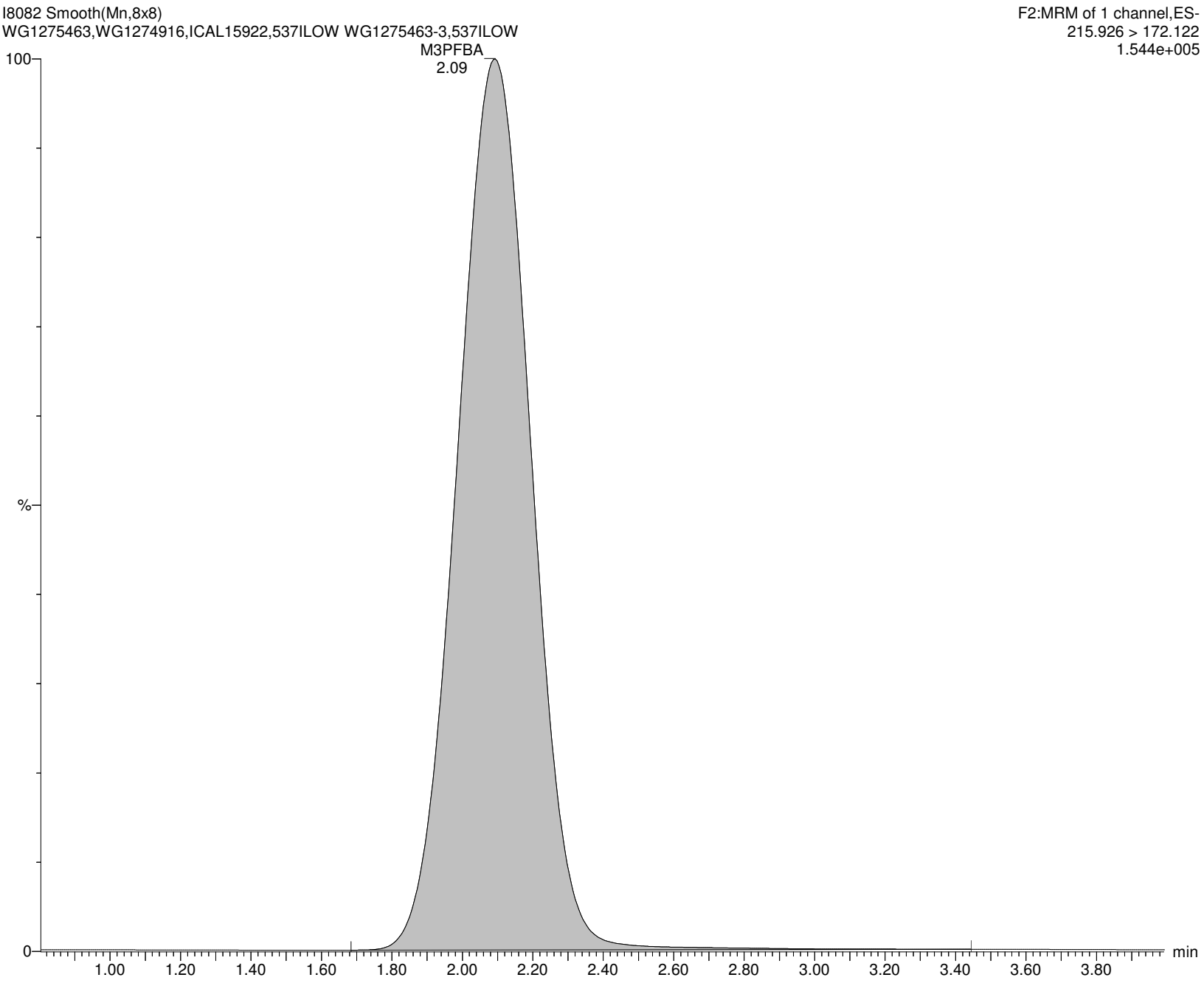


all concentration units in (ng/mL)

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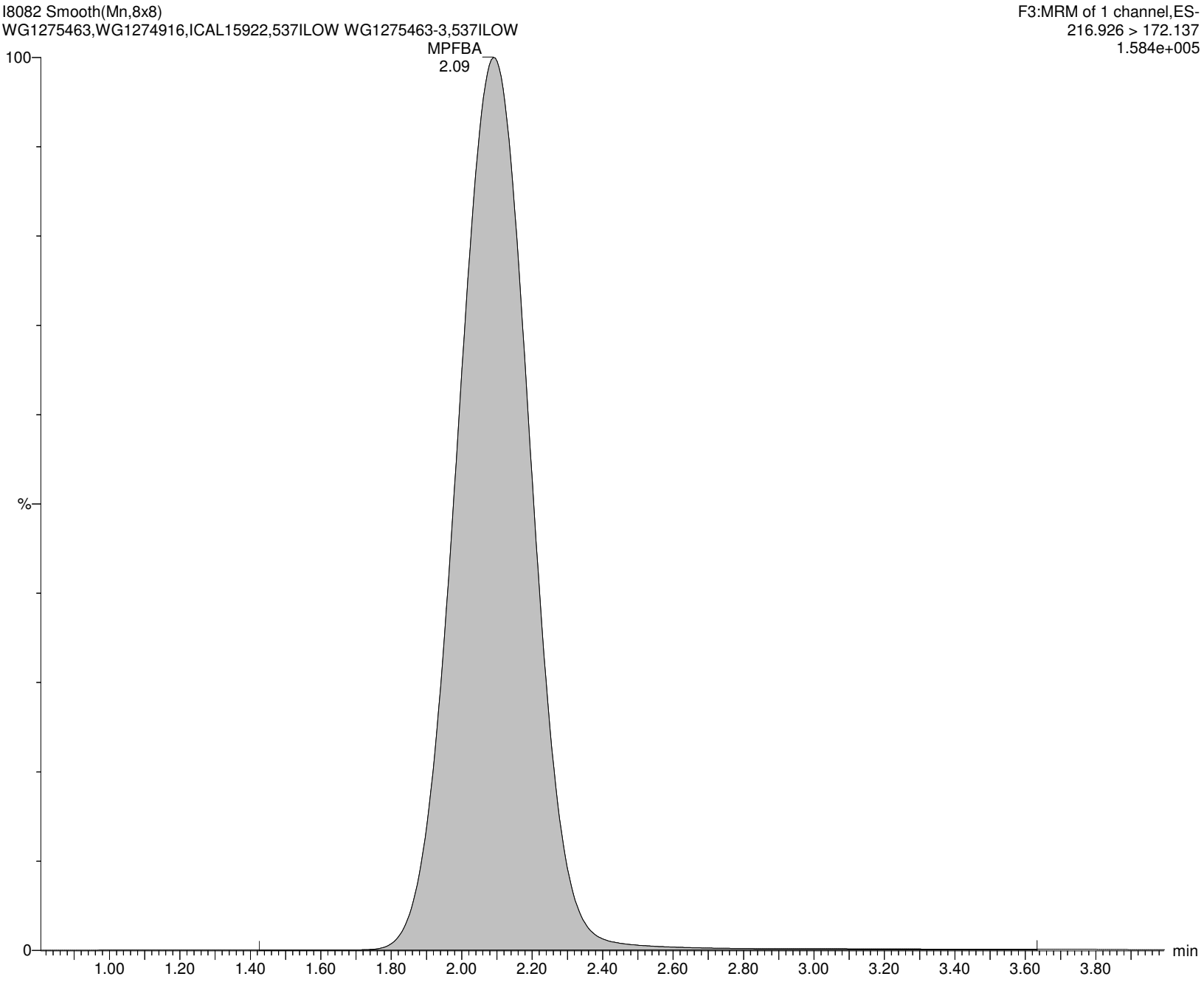


all concentration units in (ng/mL)

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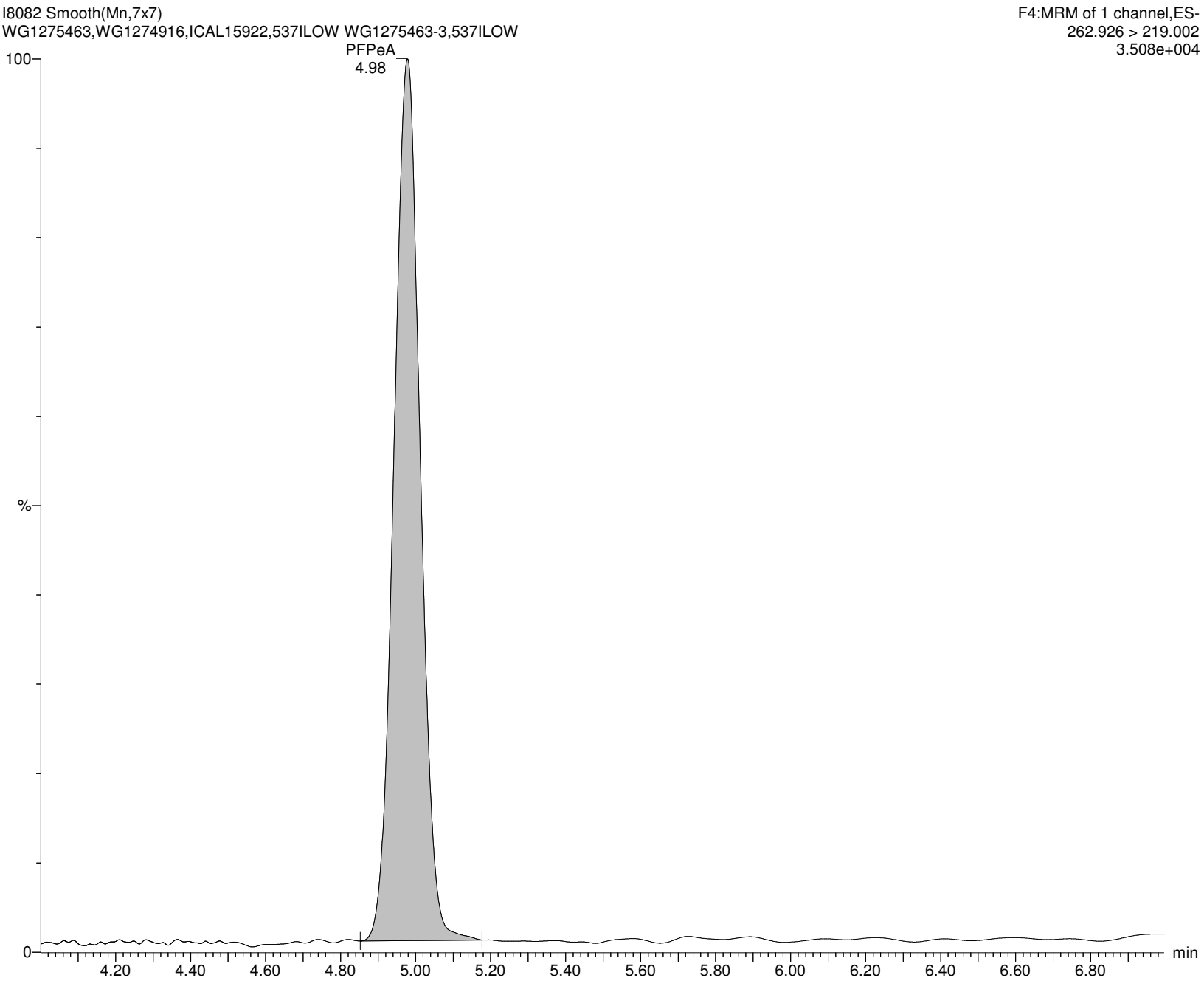


all concentration units in (ng/mL)

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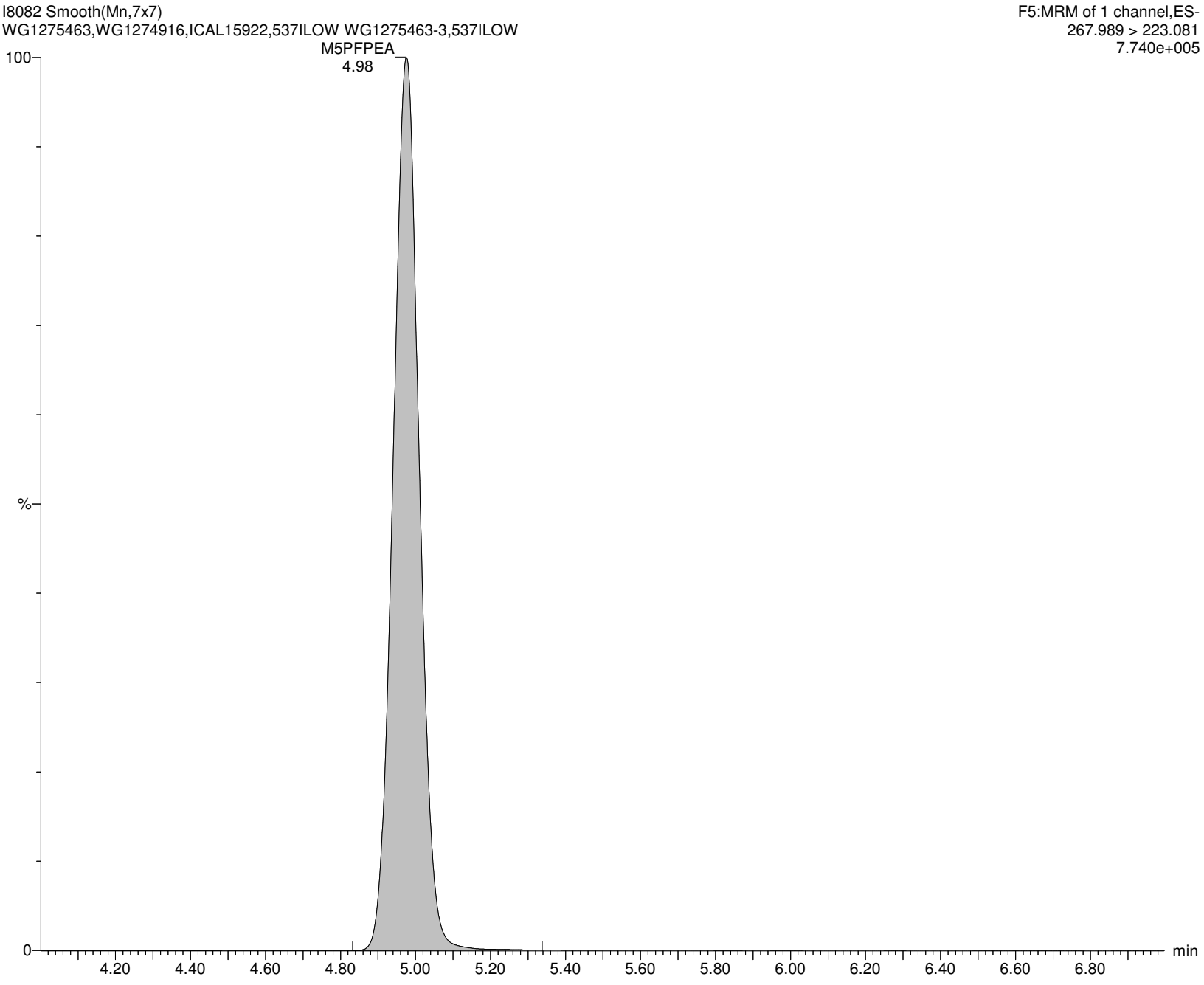


all concentration units in (ng/mL)

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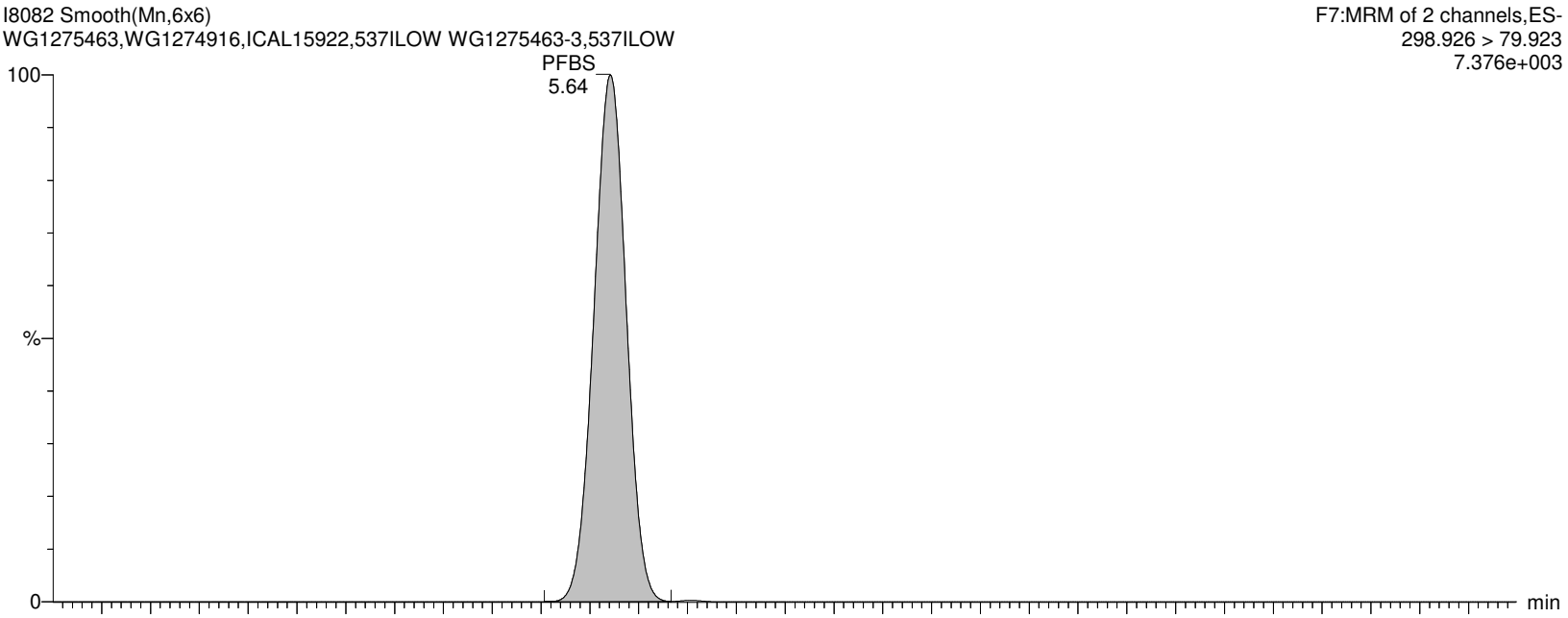


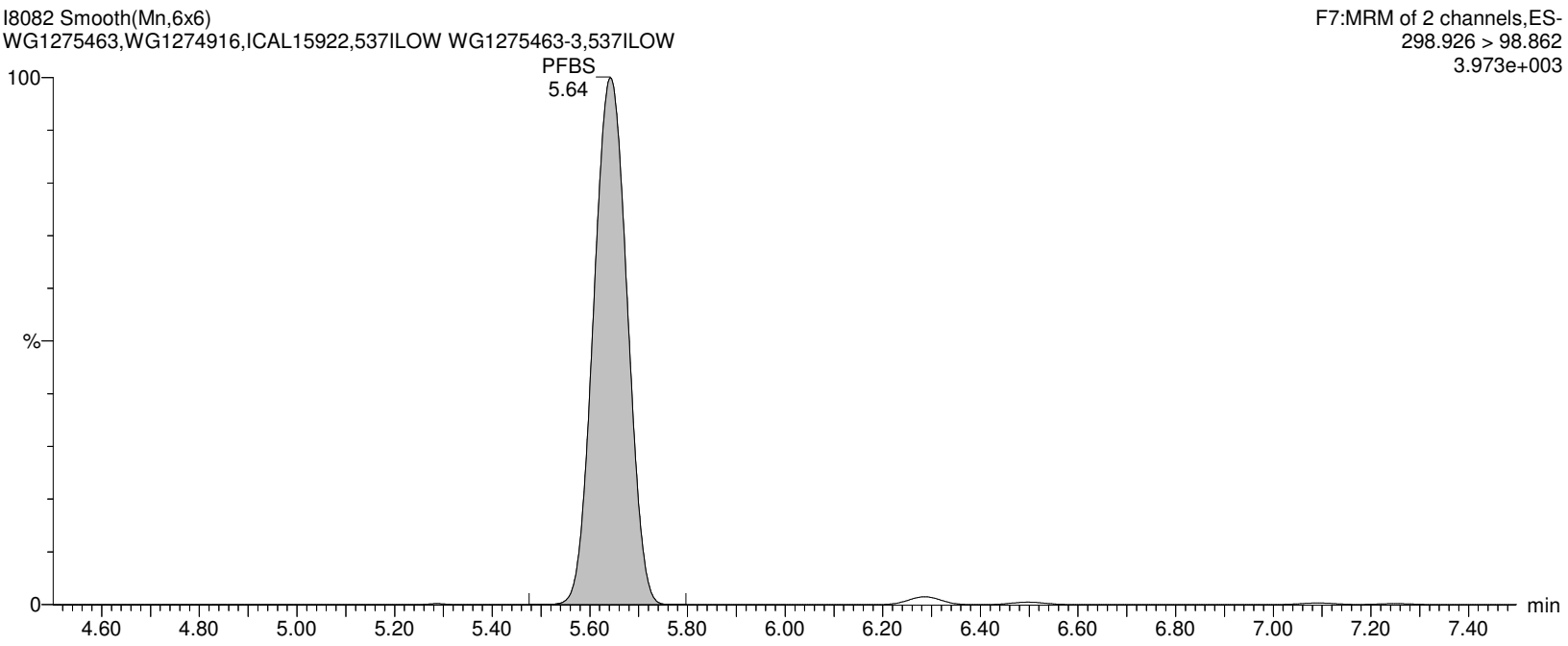
all concentration units in (ng/mL)

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PFBS



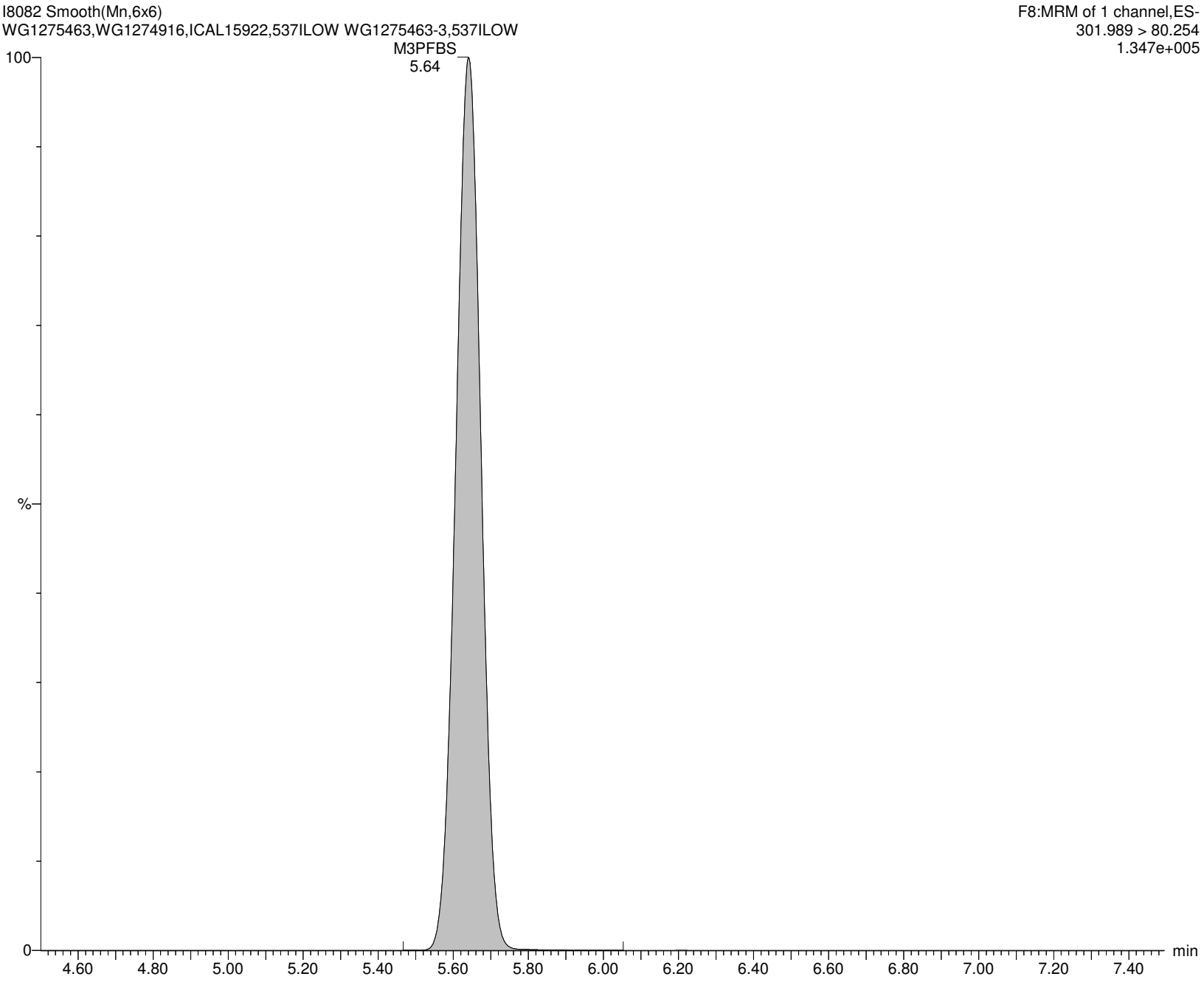


all concentration units in (ng/mL)

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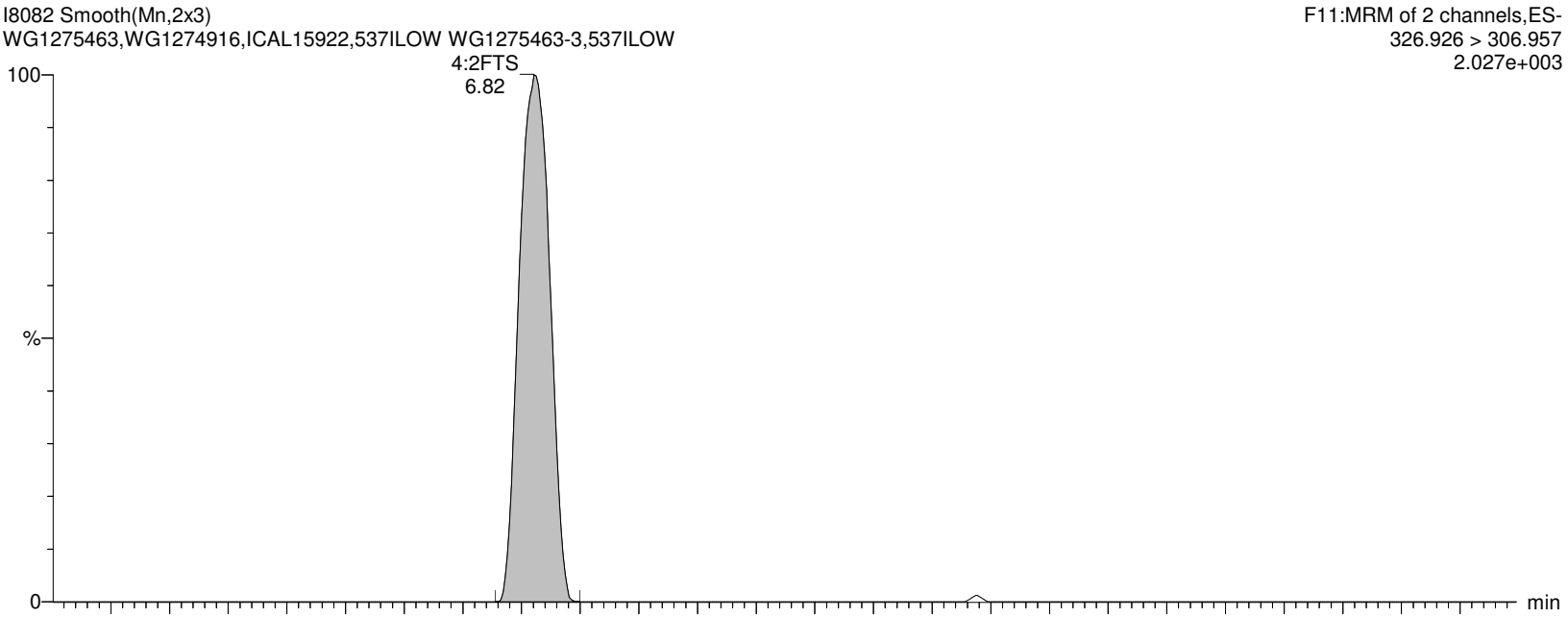


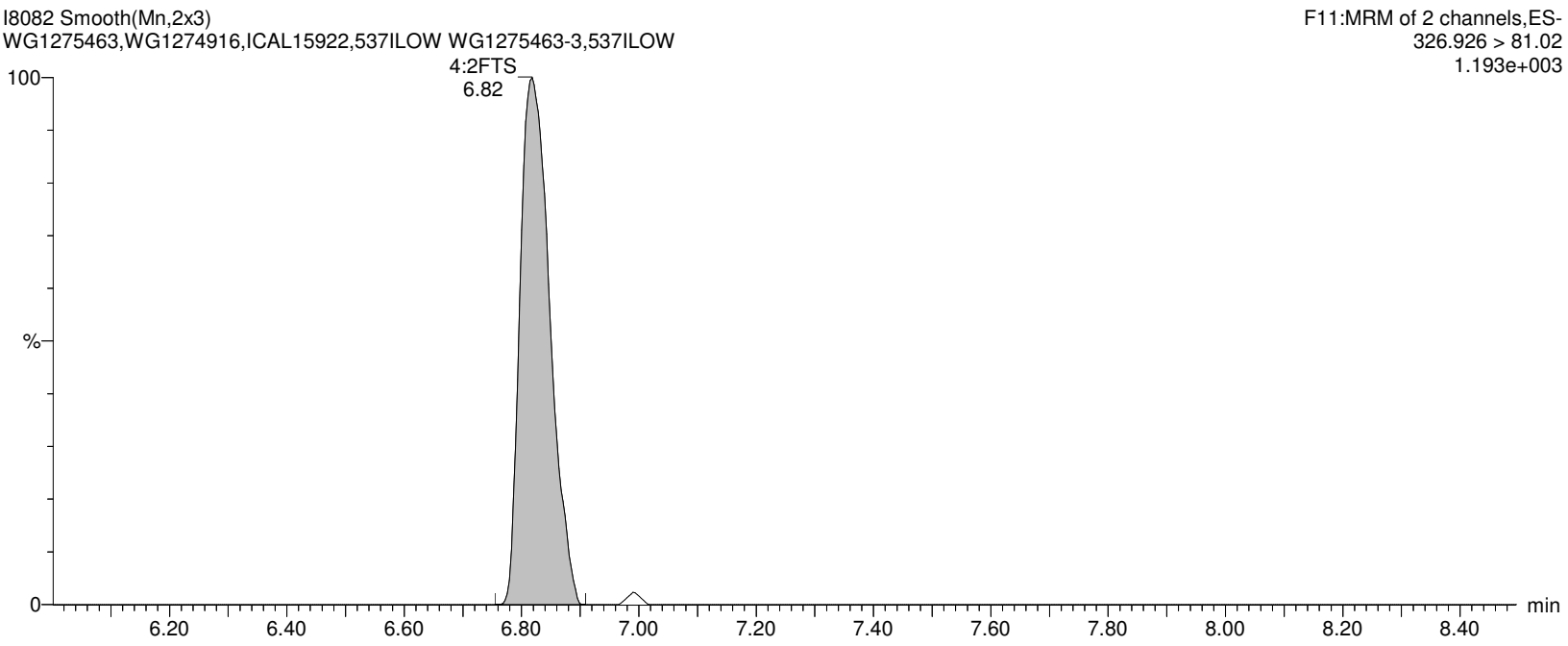
all concentration units in (ng/mL)

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4:2FTS



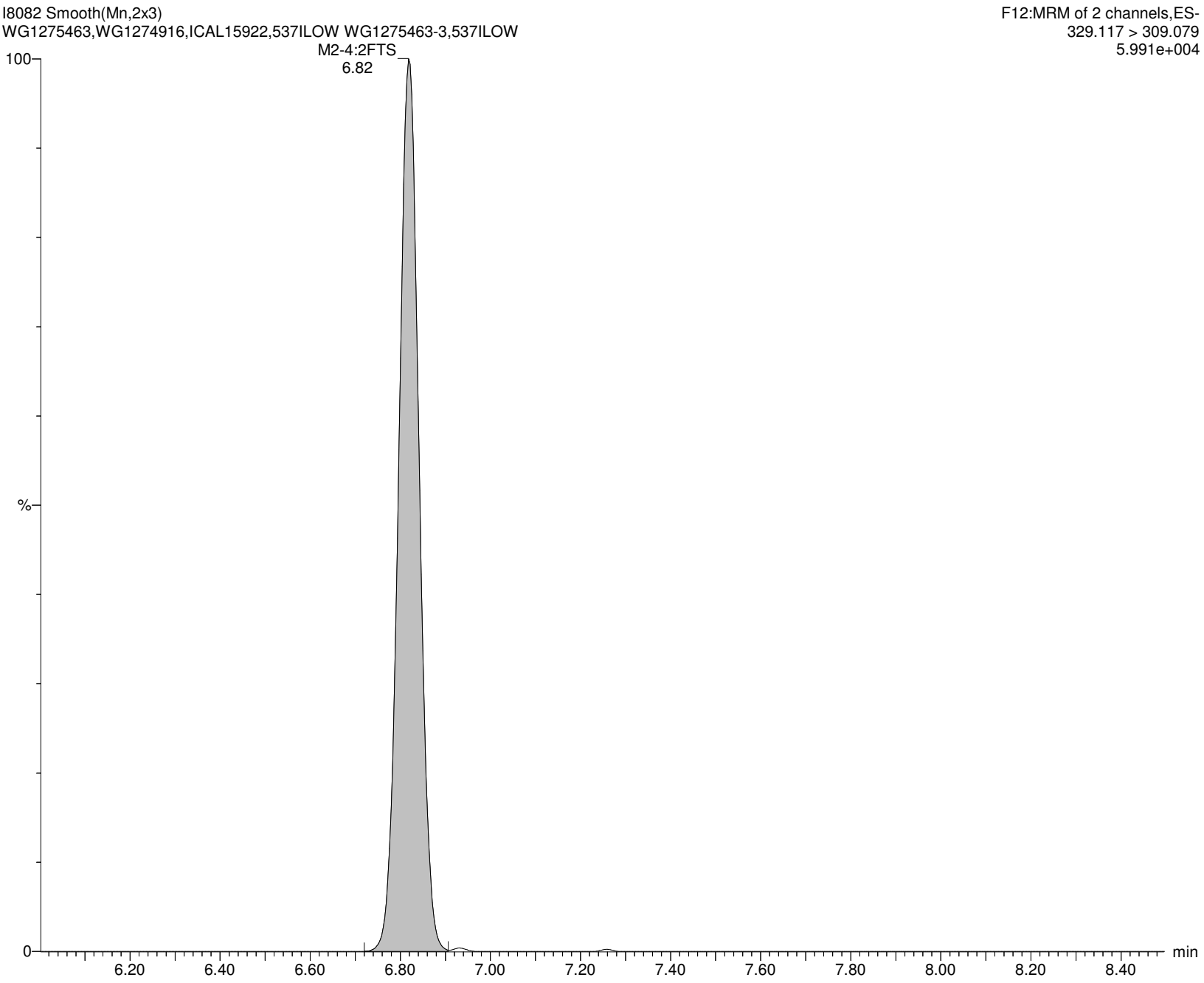


all concentration units in (ng/mL)

Alpha Analytical Inc.
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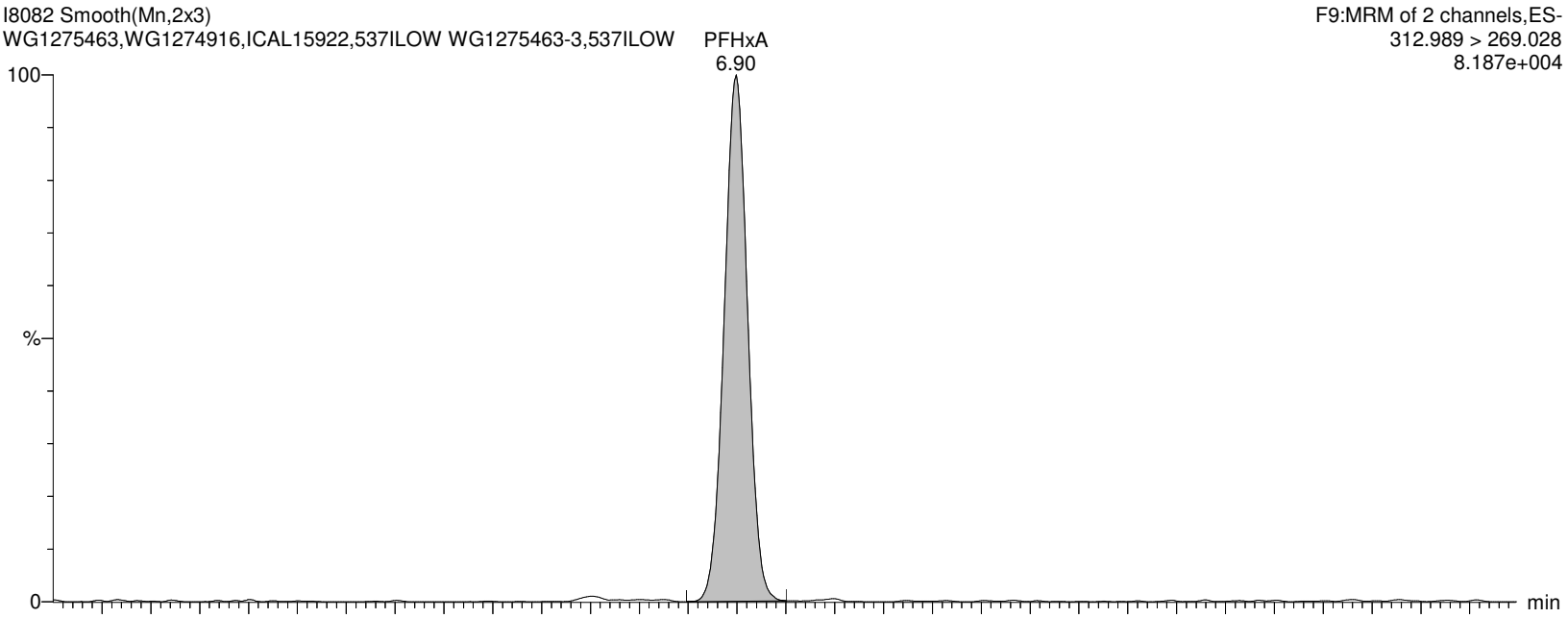


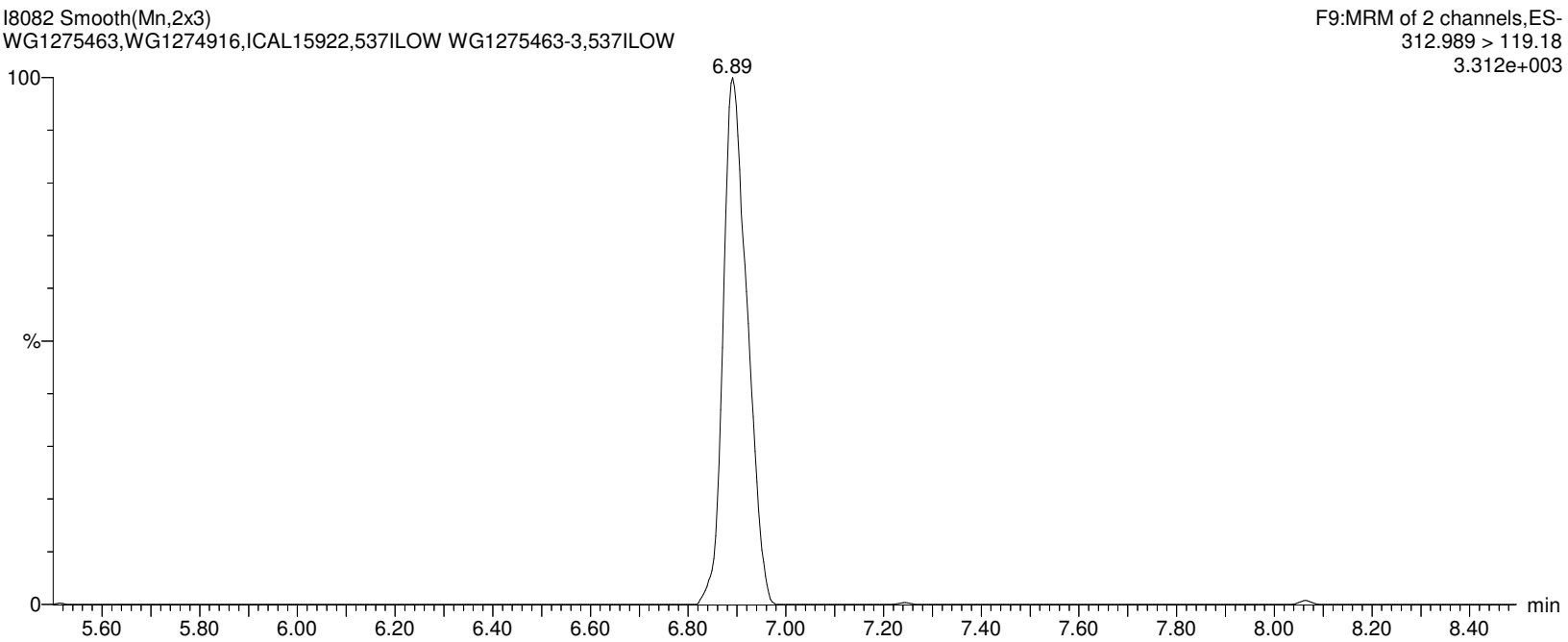
all concentration units in (ng/mL)

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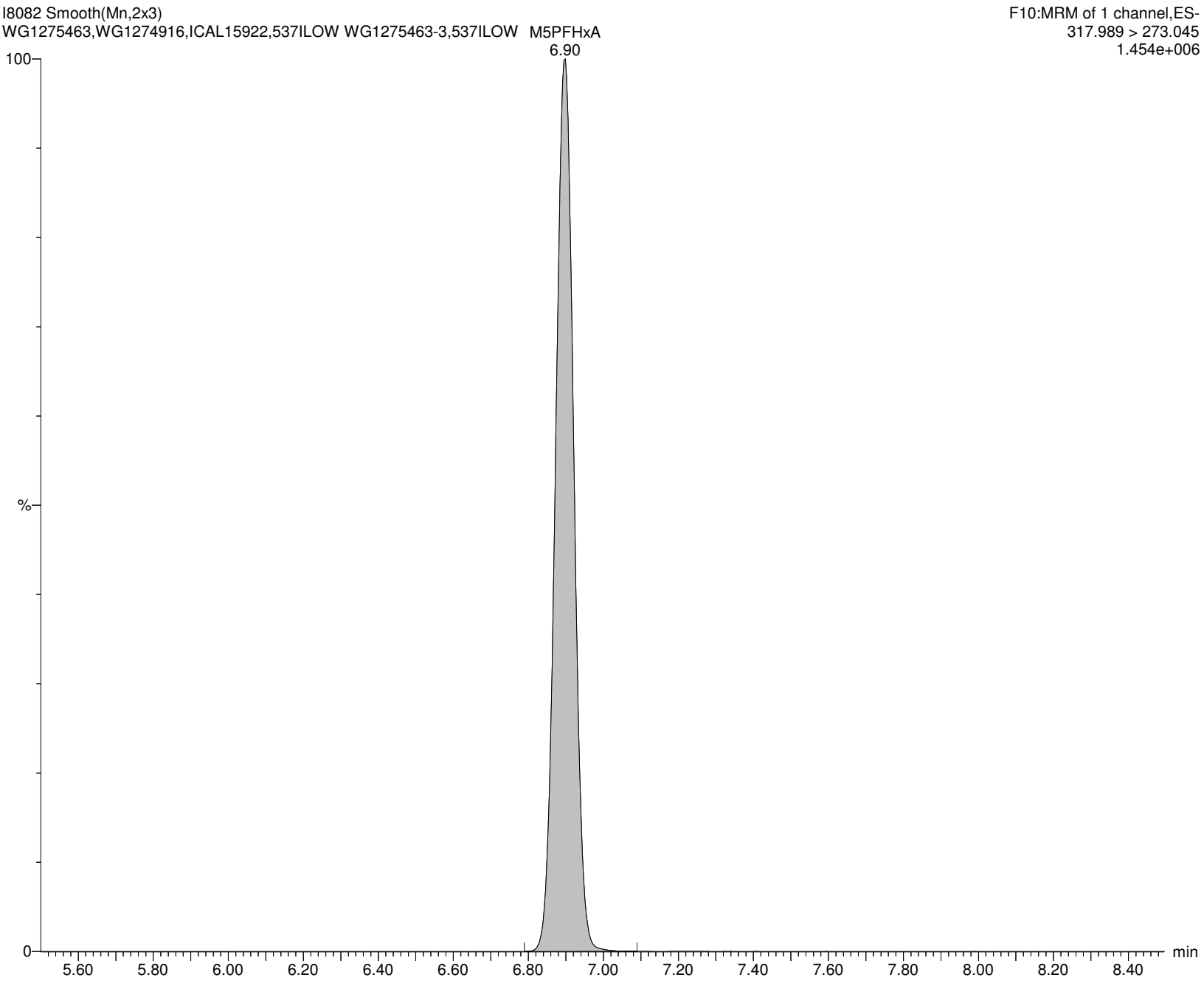


all concentration units in (ng/mL)

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M5PFHxA

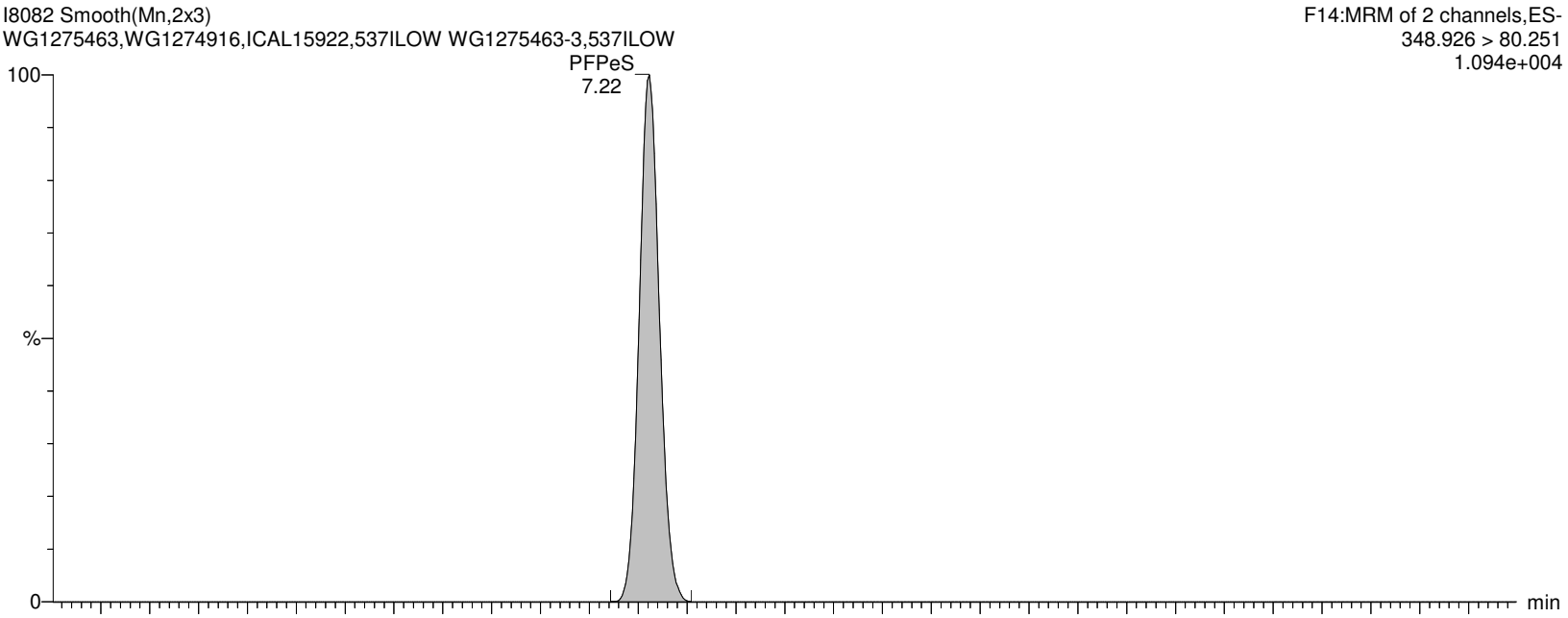


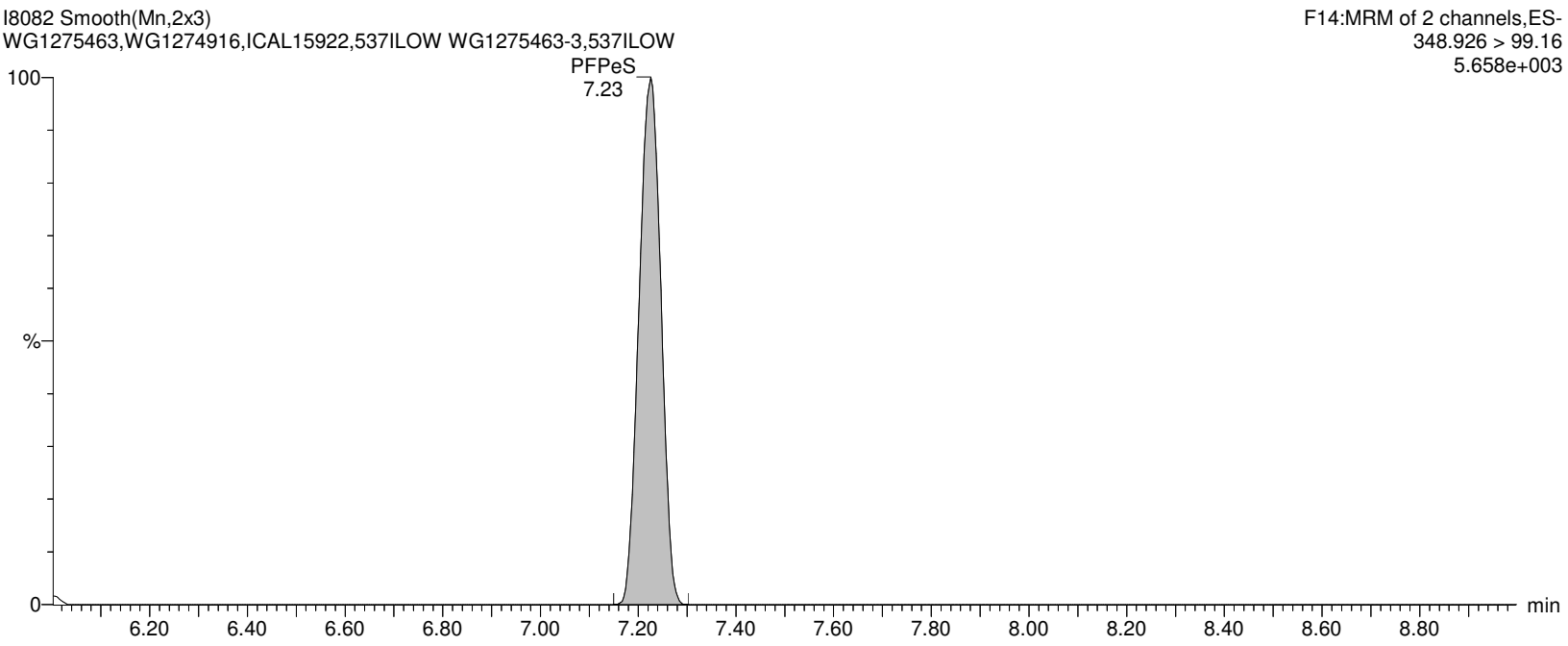
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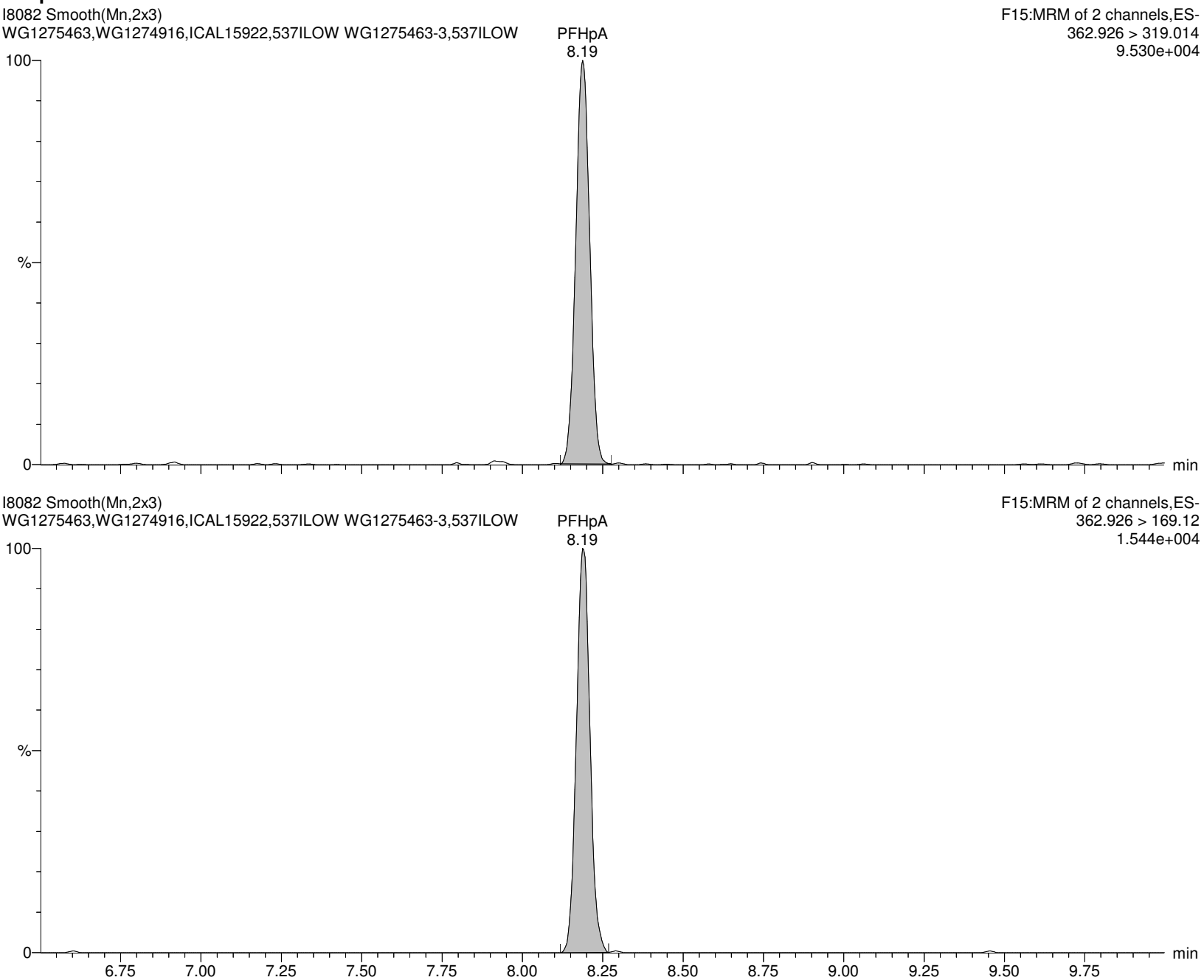


all concentration units in (ng/mL)

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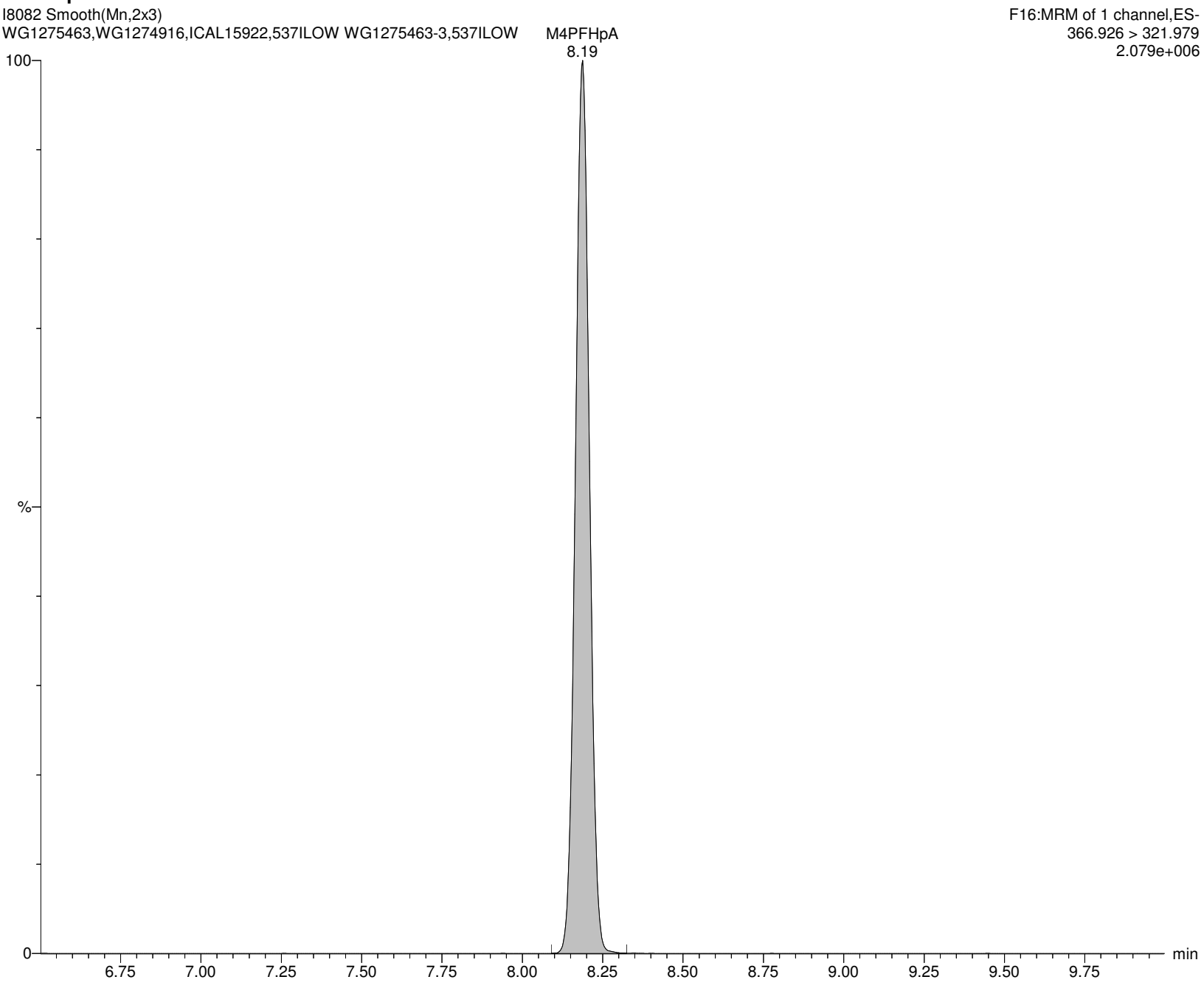


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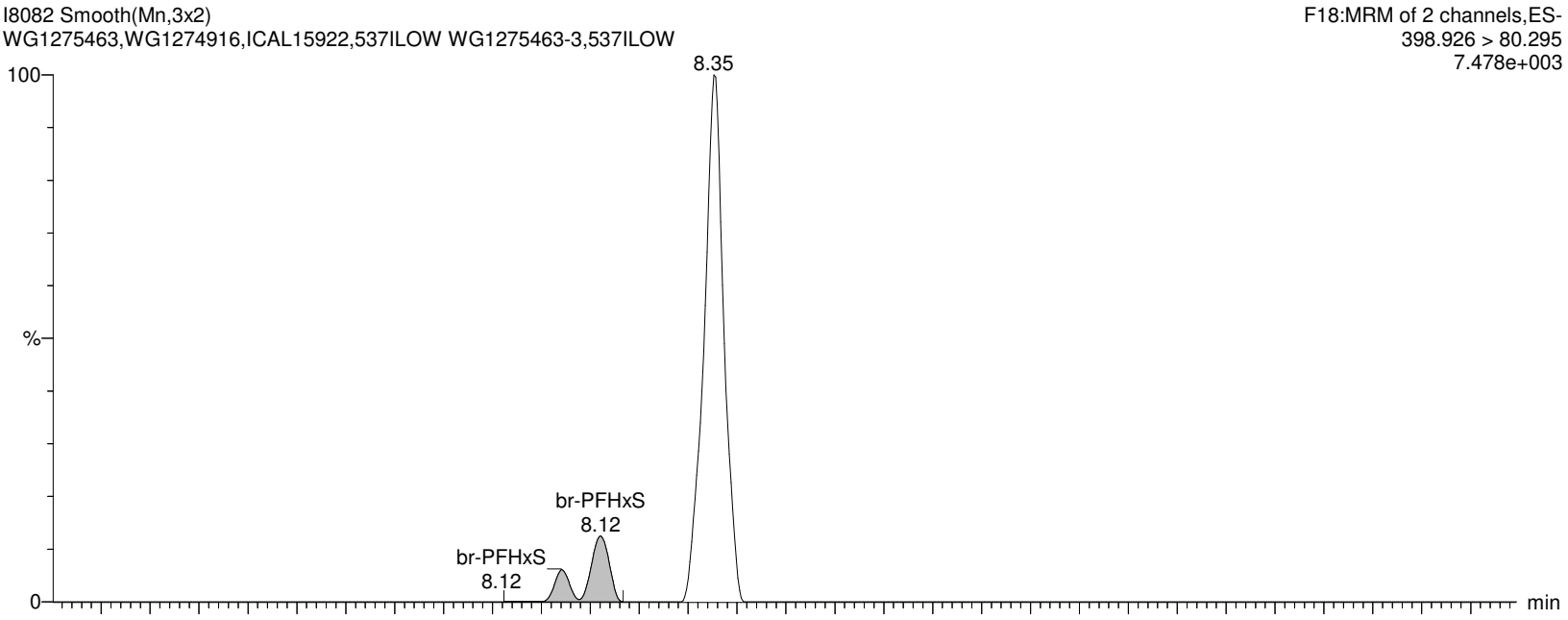


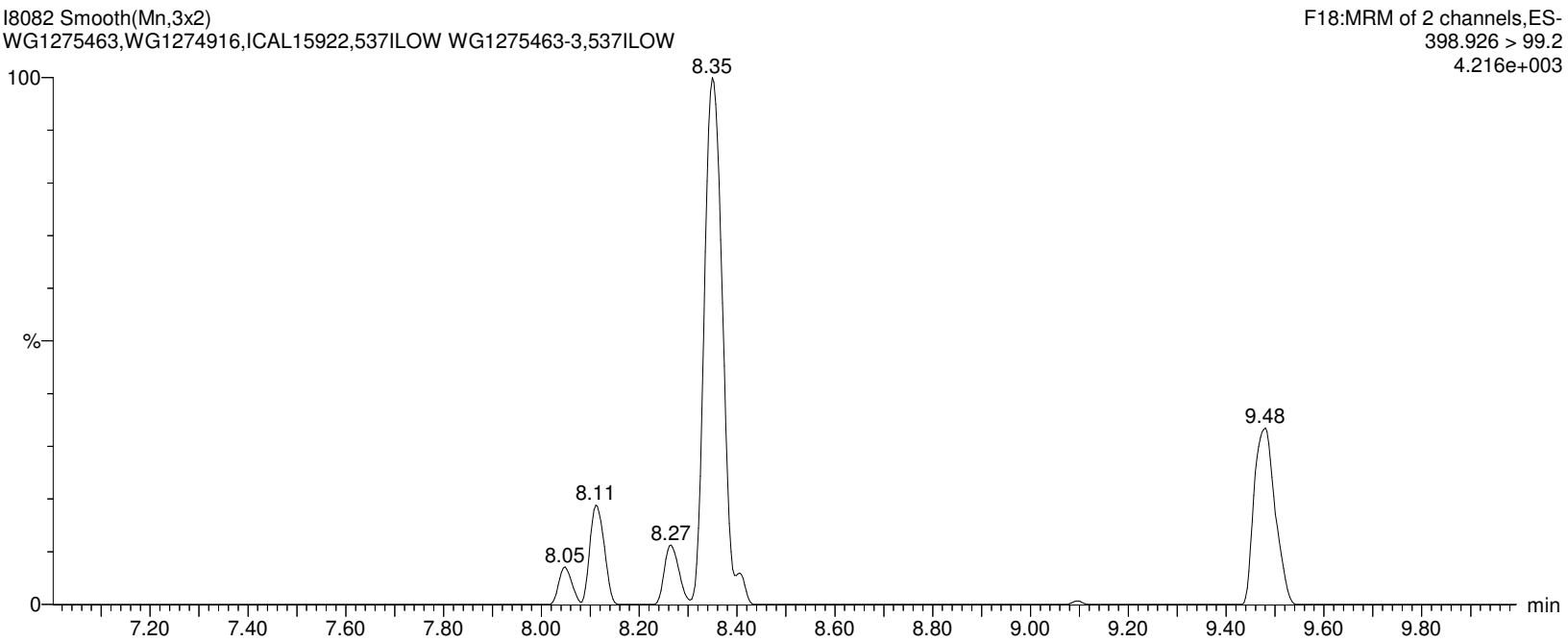
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br-PFHxS



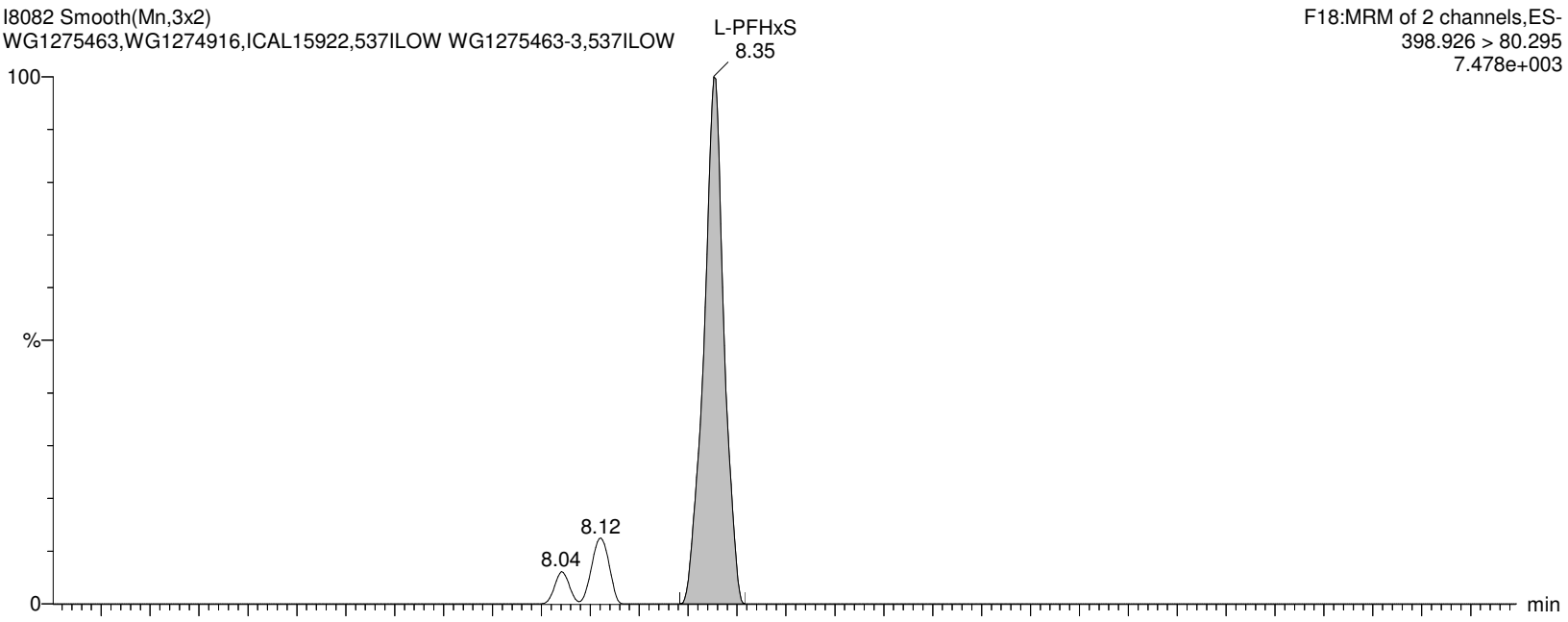


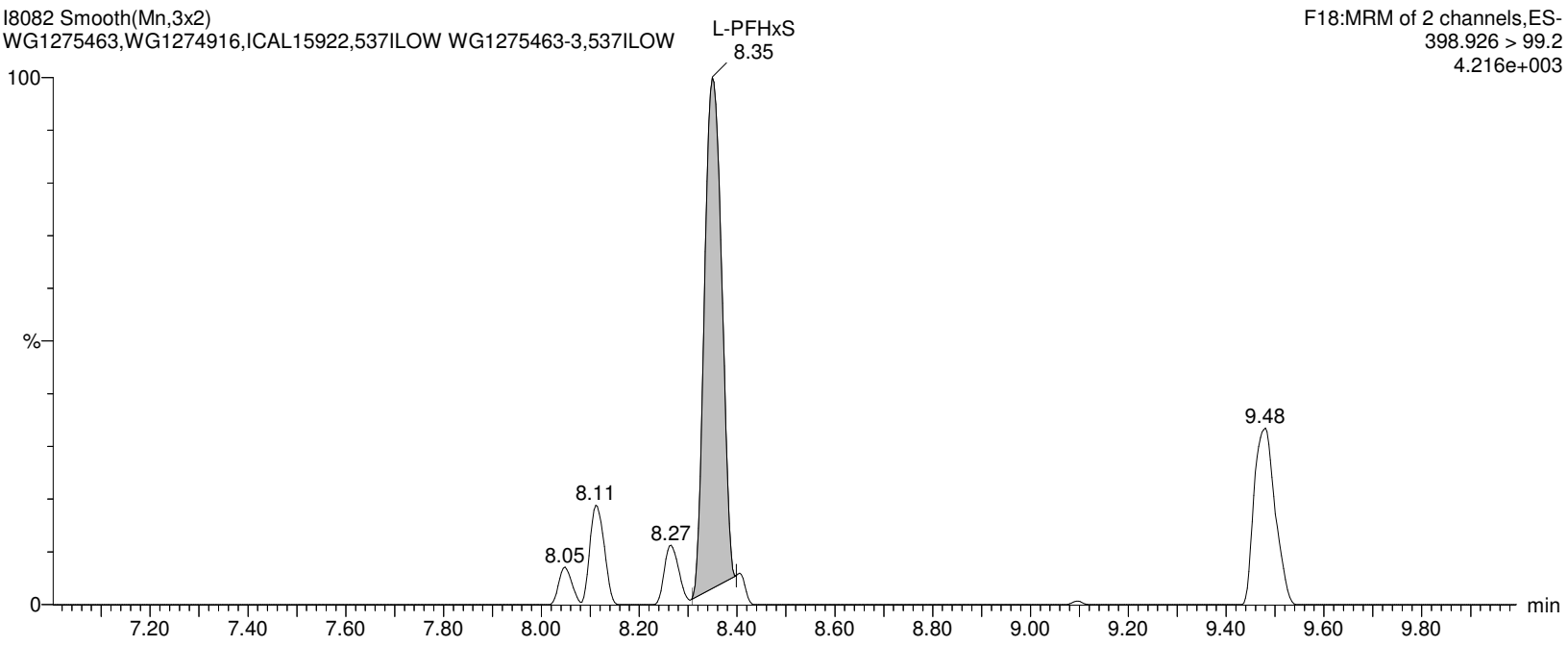
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Last Altered: Friday, August 23, 2019 09:30:32 Eastern Daylight Time
Printed: Friday, August 23, 2019 09:30:48 Eastern Daylight Time

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ID: WG1275463-3,537ILOW
Date: 22-Aug-2019
Time: 16:20:56
Description: WG1275463,WG1274916,ICAL15922,537ILOW
User: LCMS02:JW
Vial: 1:A,2
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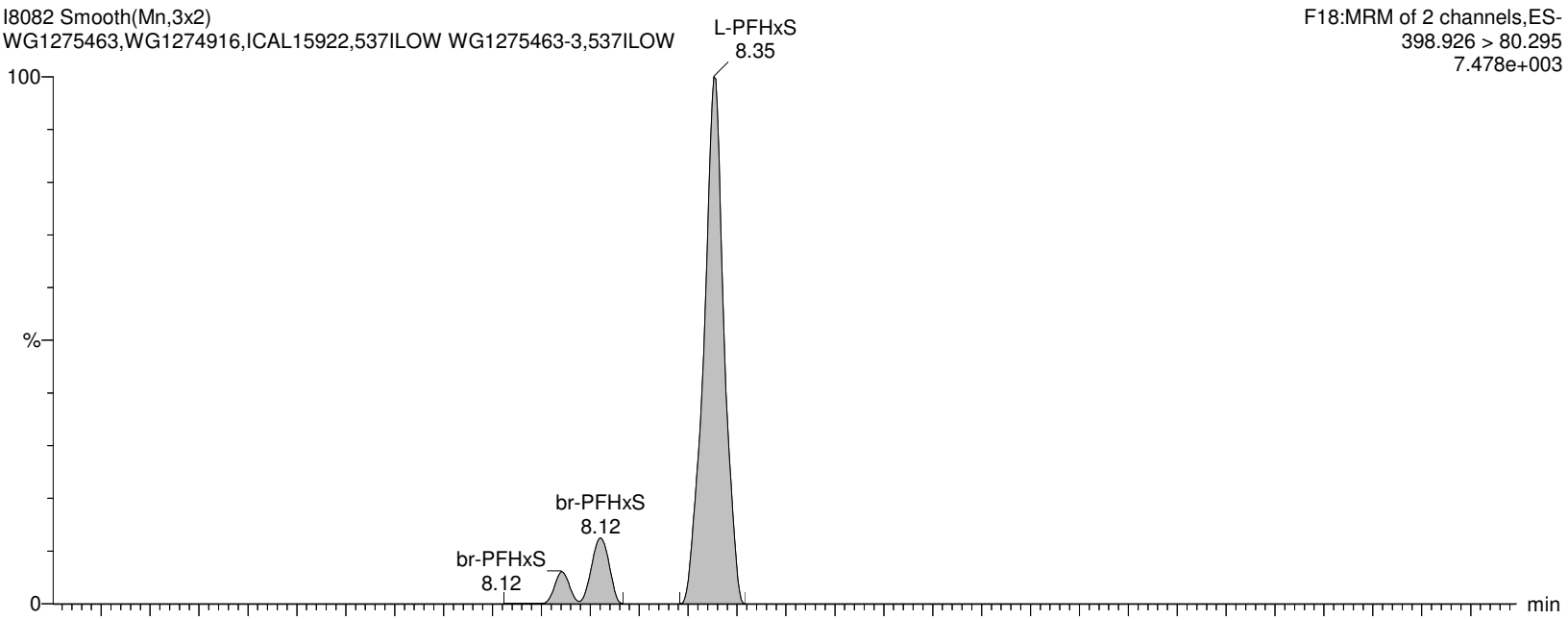


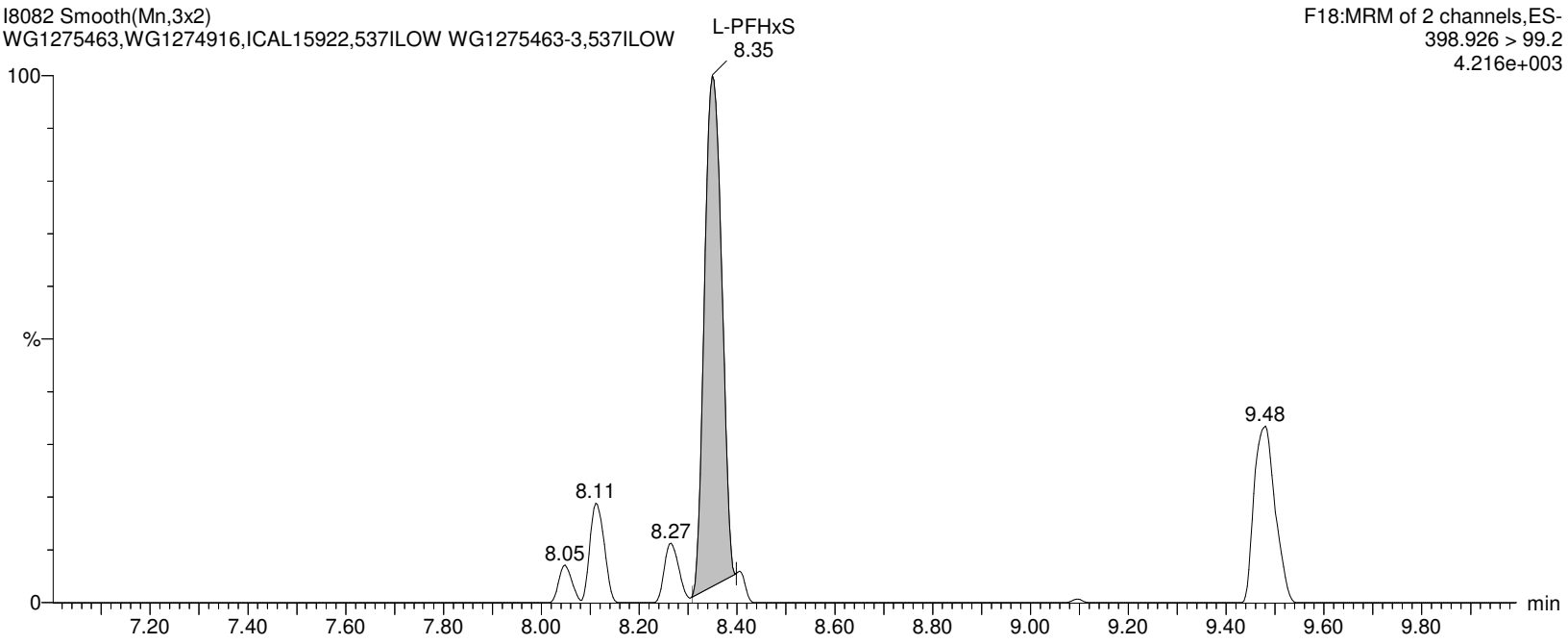
all concentration units in (ng/mL)

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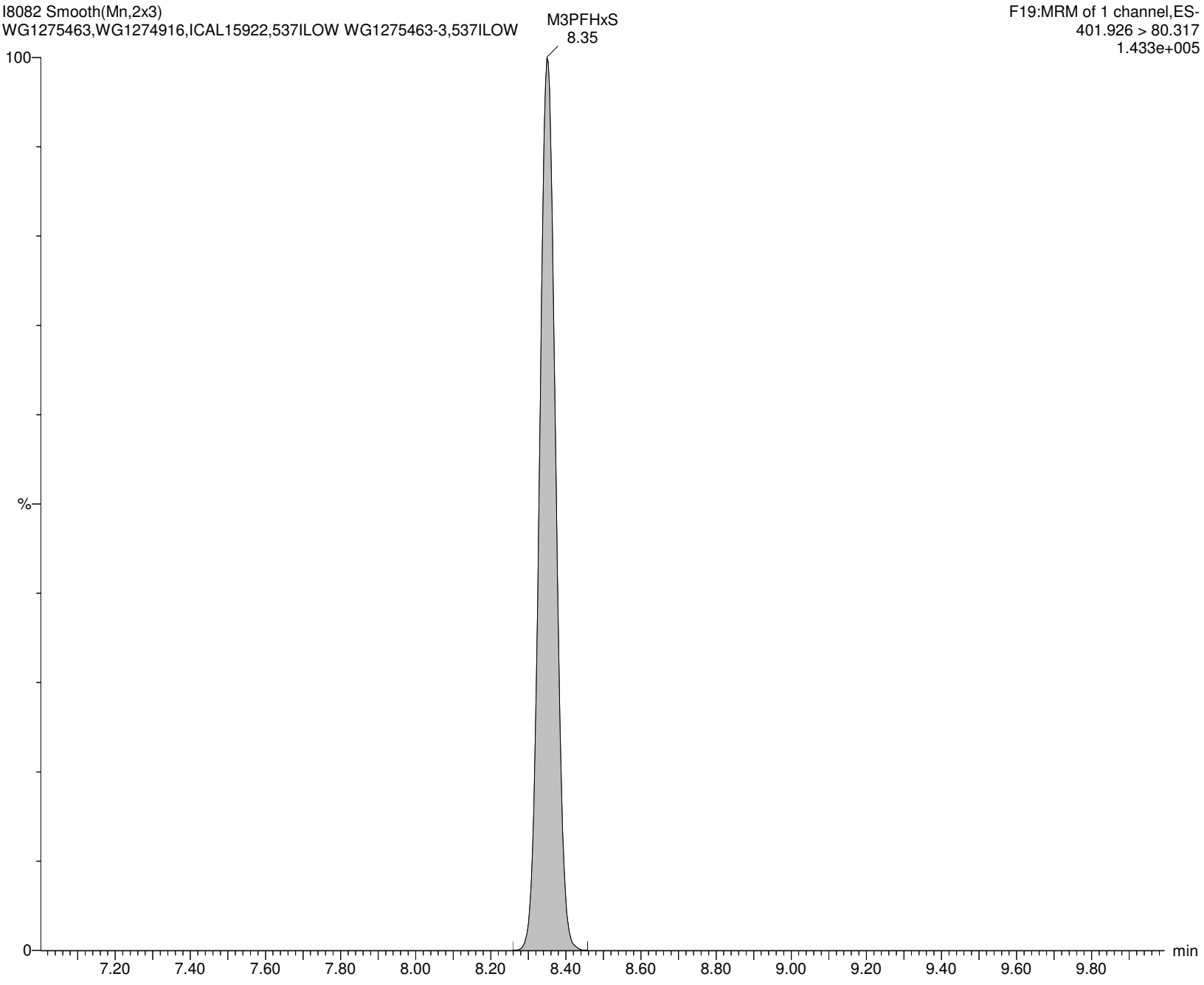


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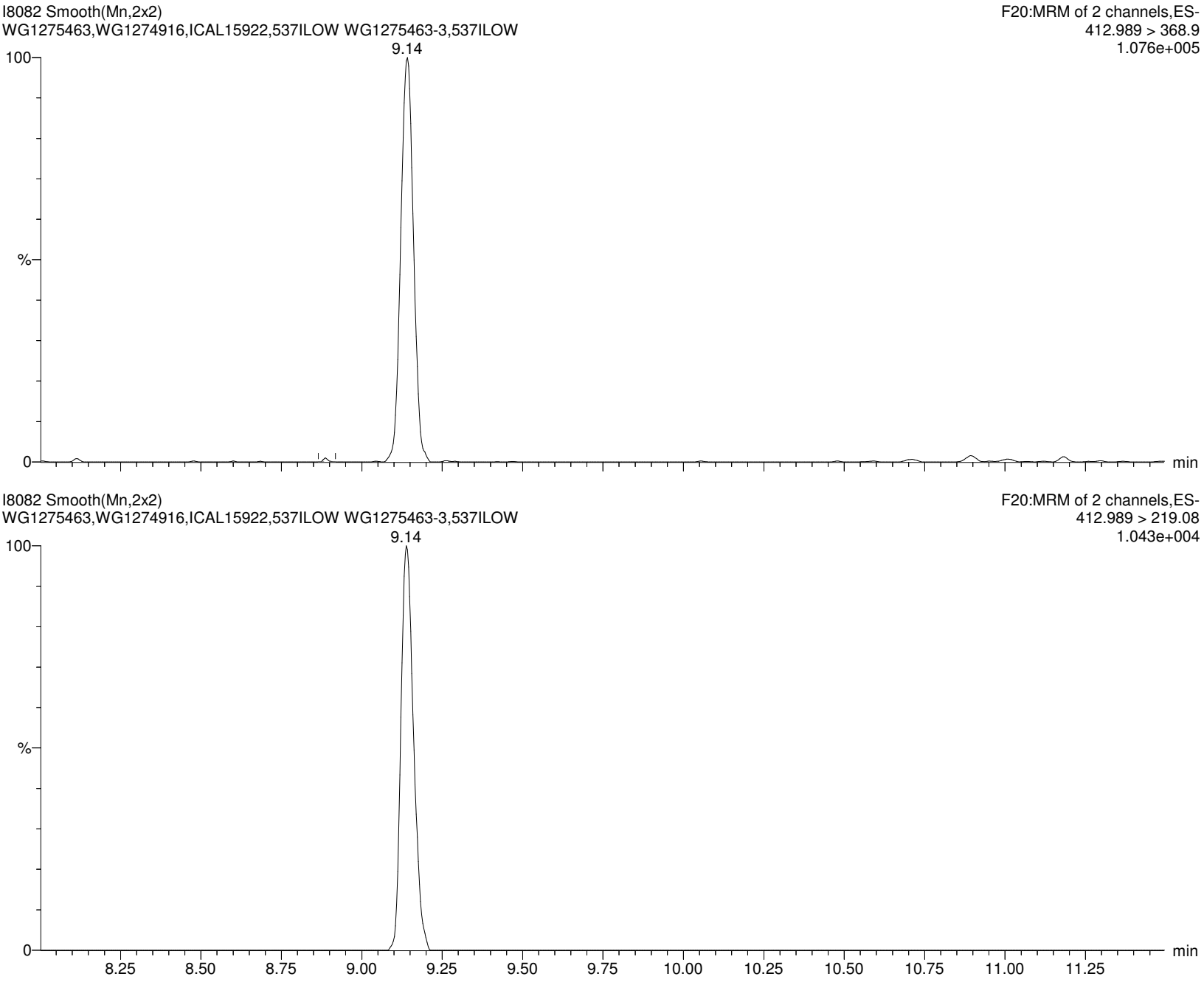


all concentration units in (ng/mL)

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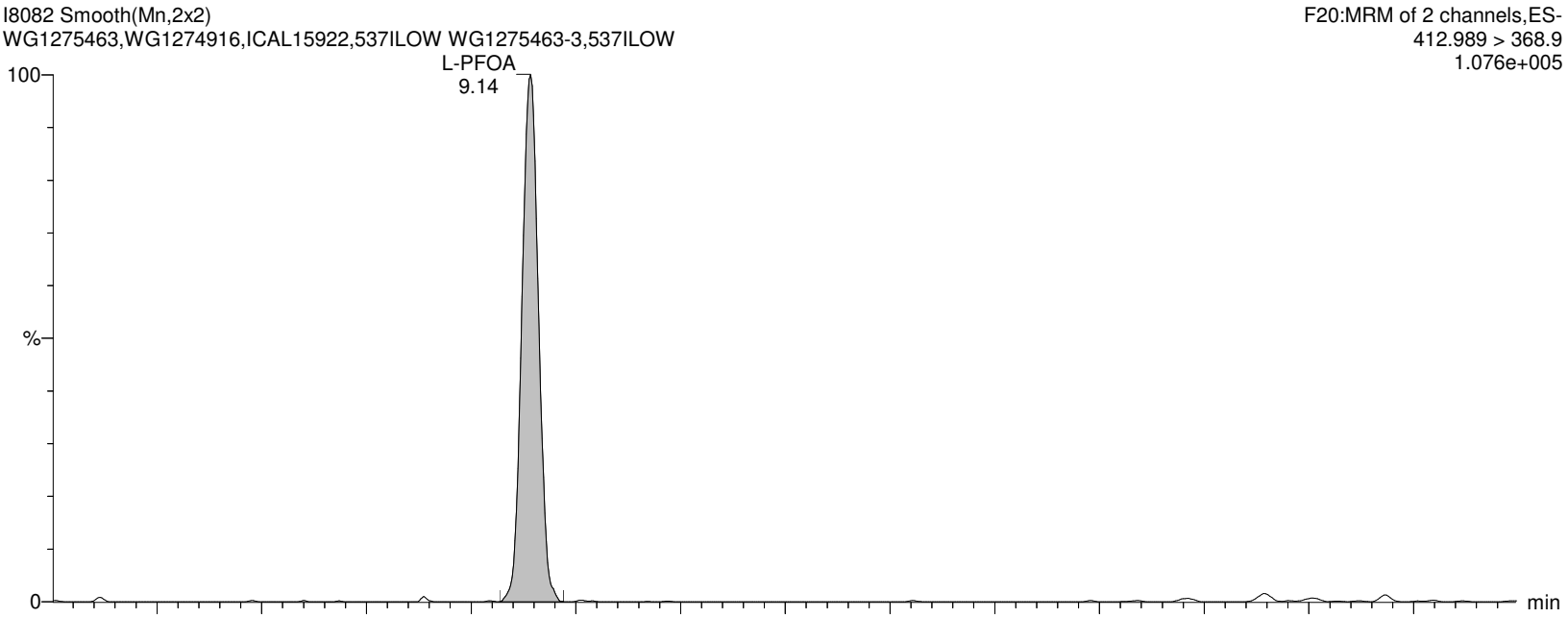


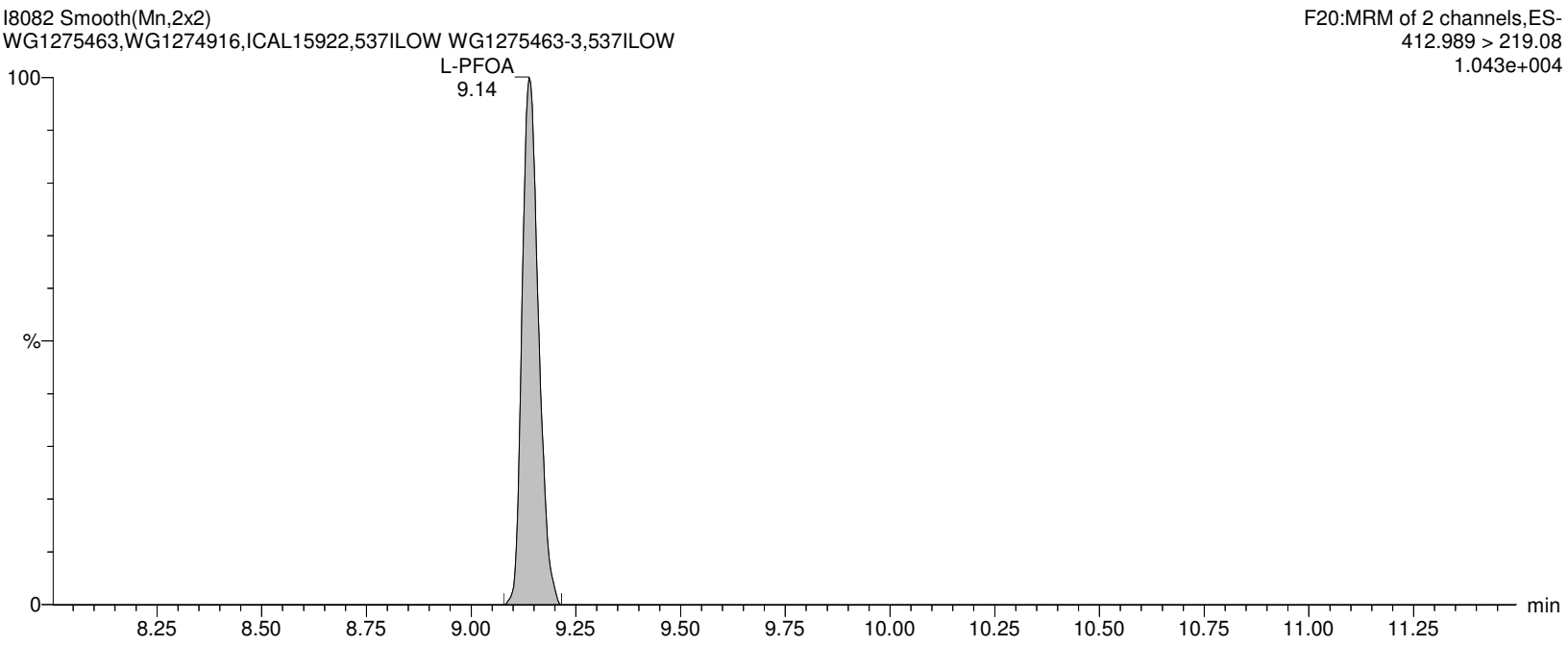
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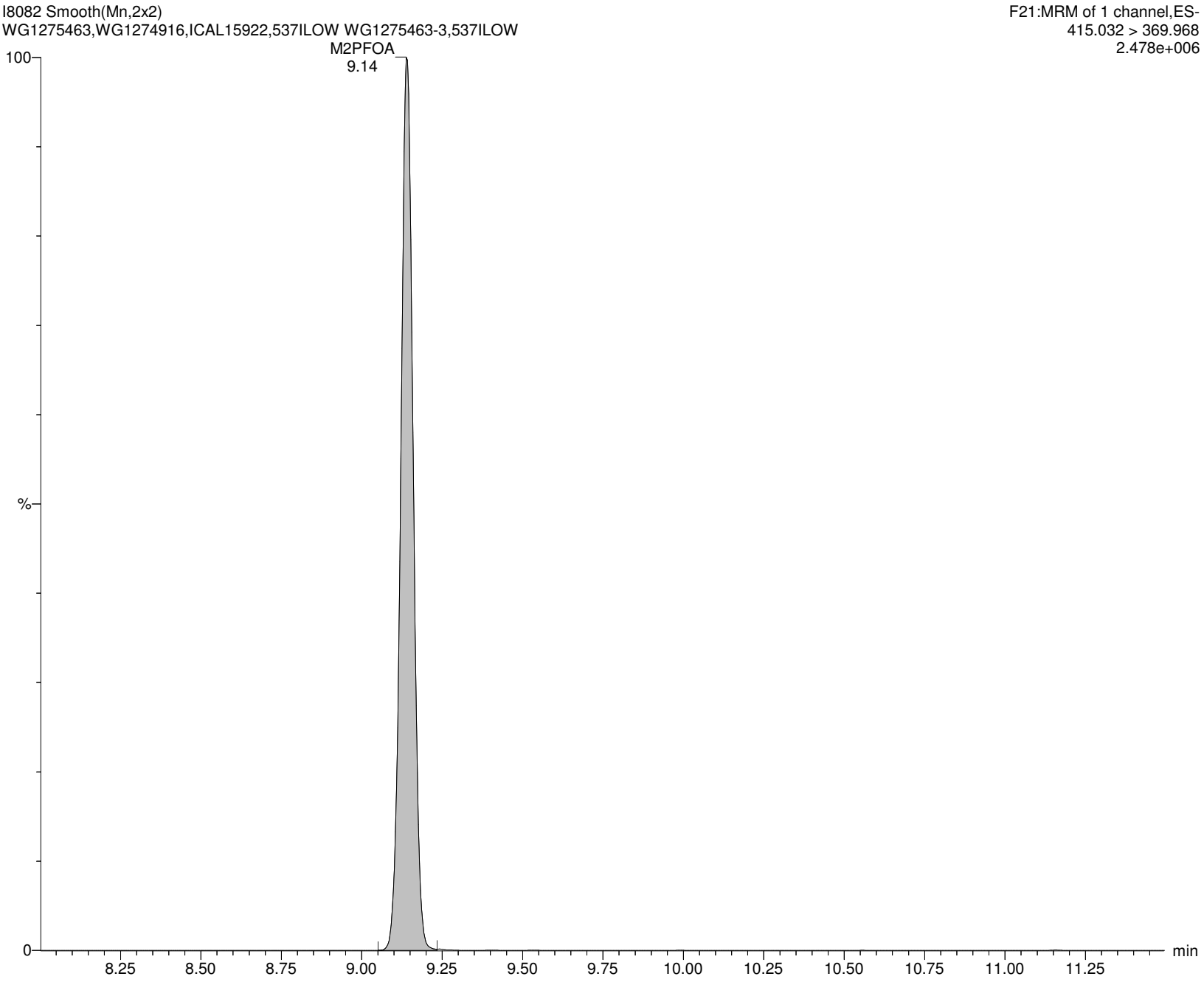


all concentration units in (ng/mL)

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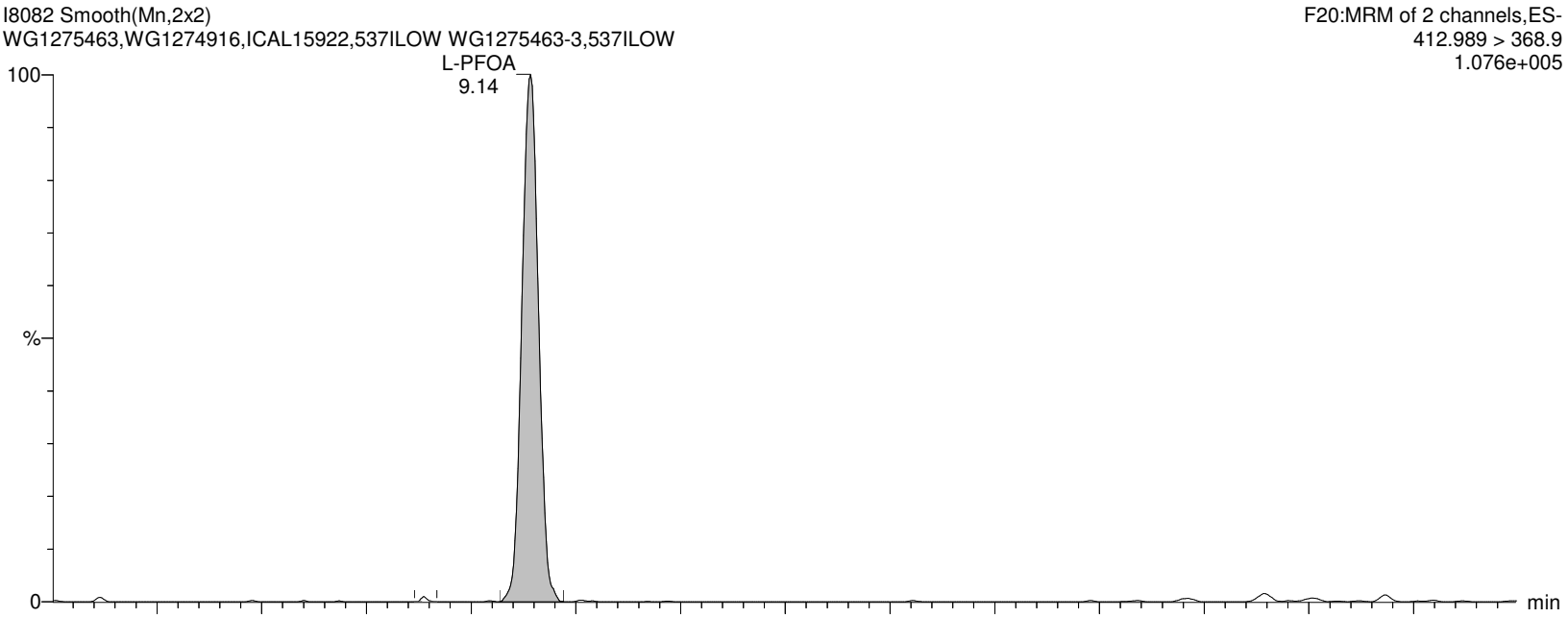


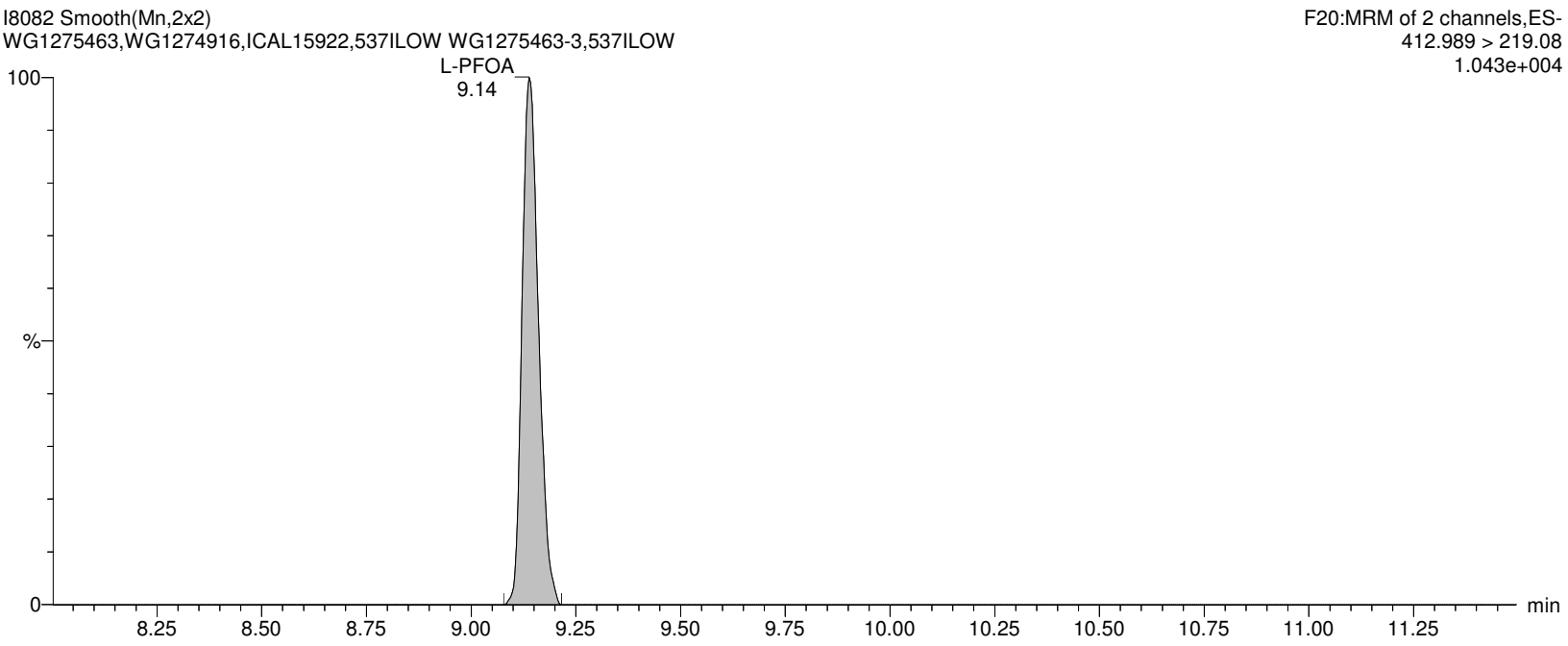
all concentration units in (ng/mL)

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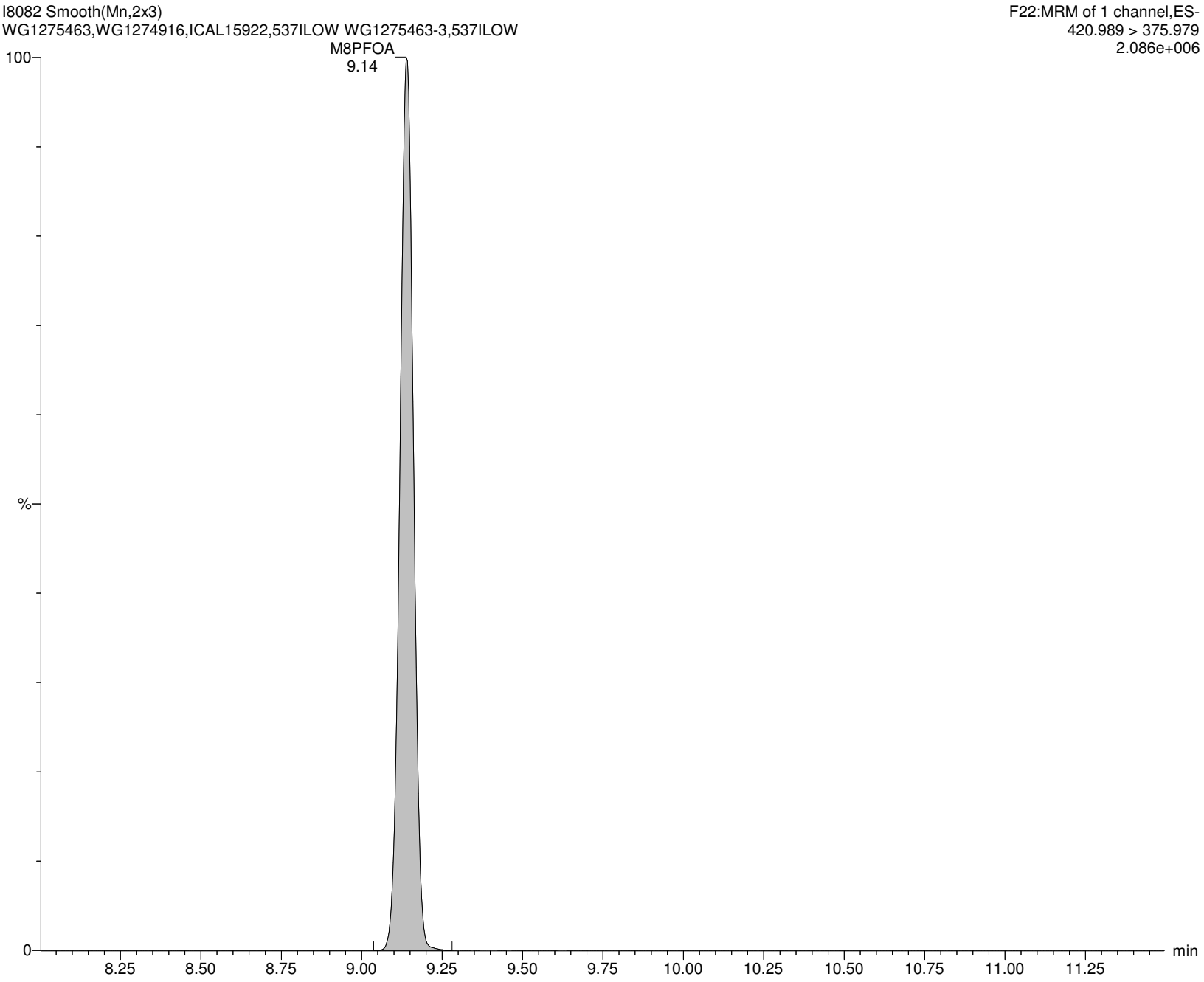


all concentration units in (ng/mL)

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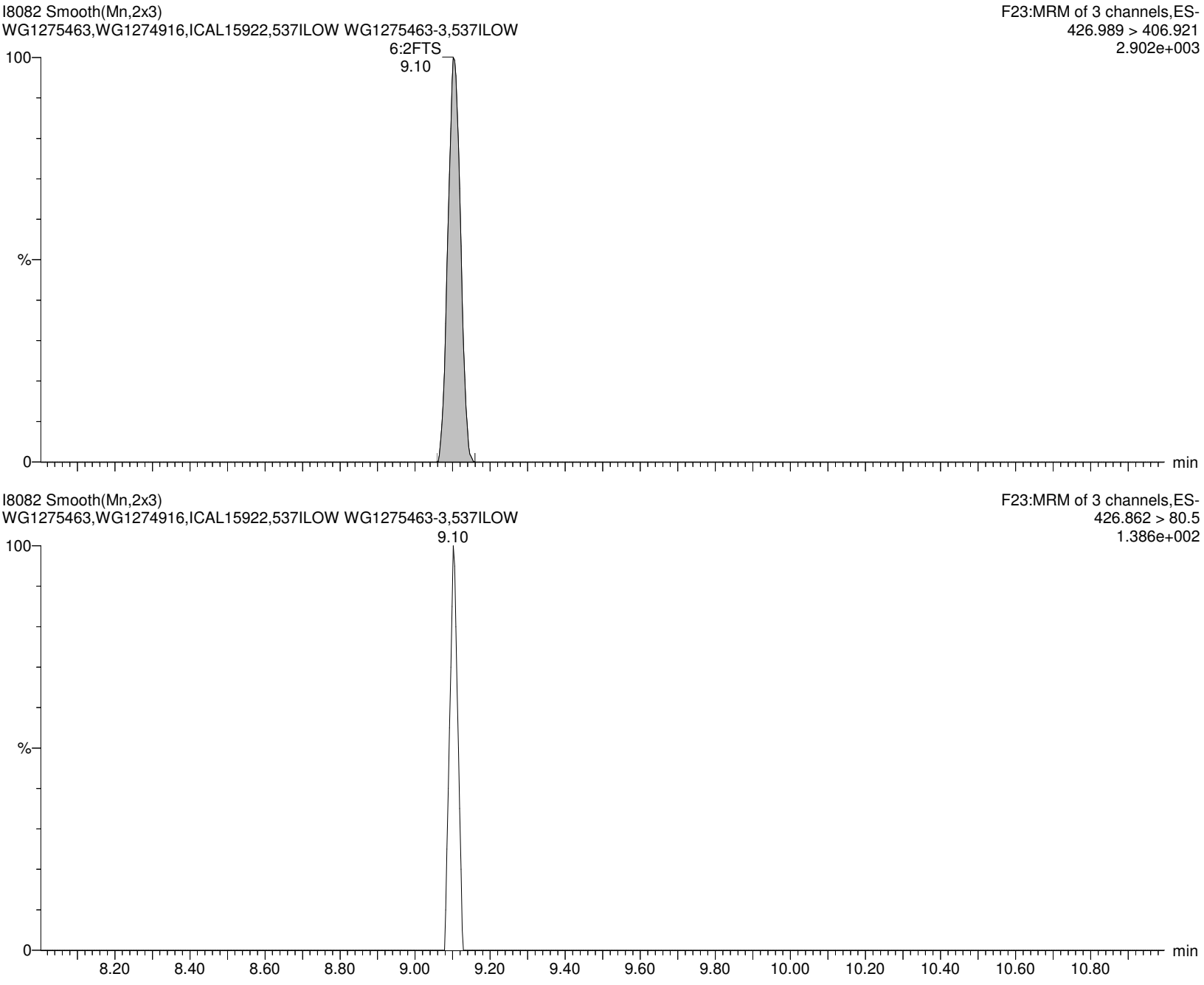


all concentration units in (ng/mL)

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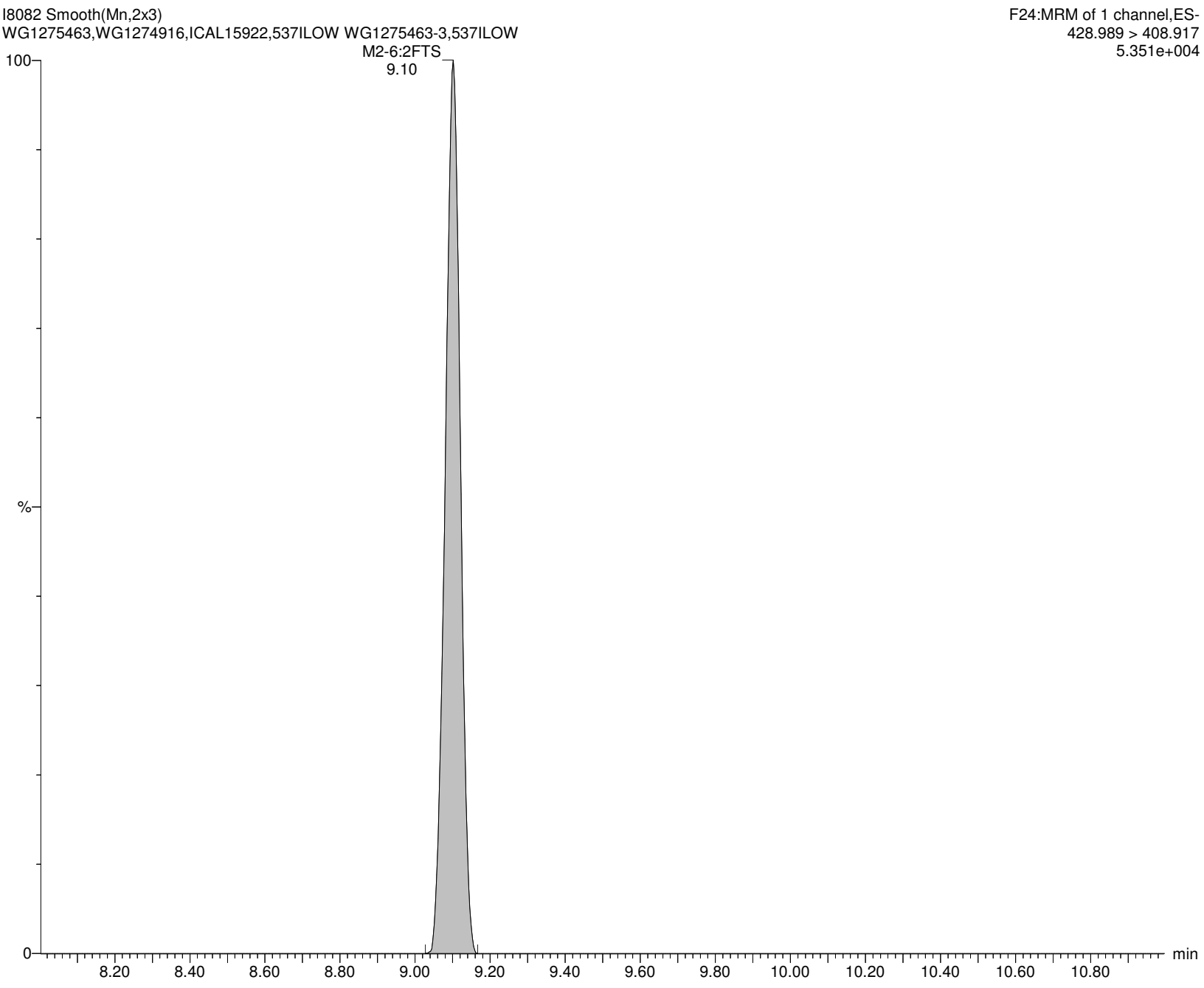


all concentration units in (ng/mL)

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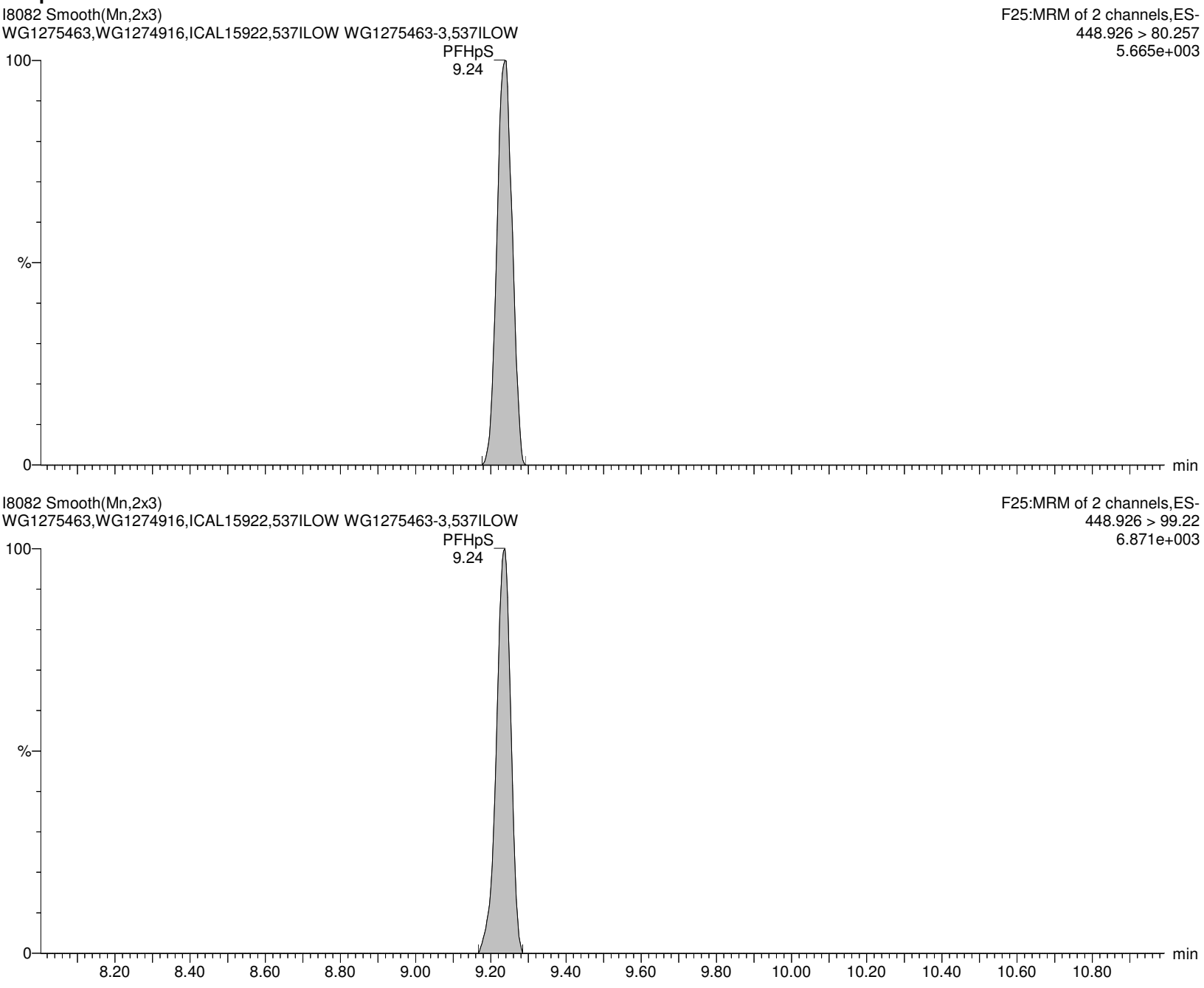


all concentration units in (ng/mL)

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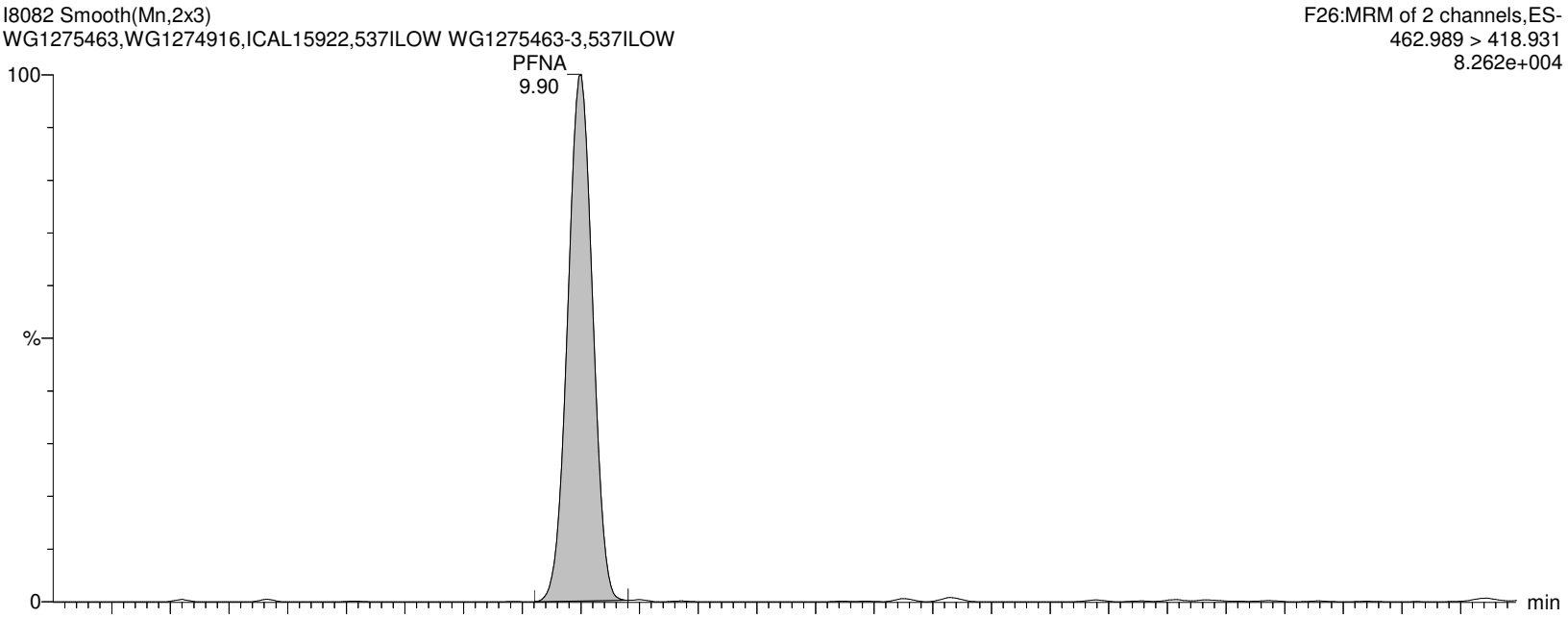


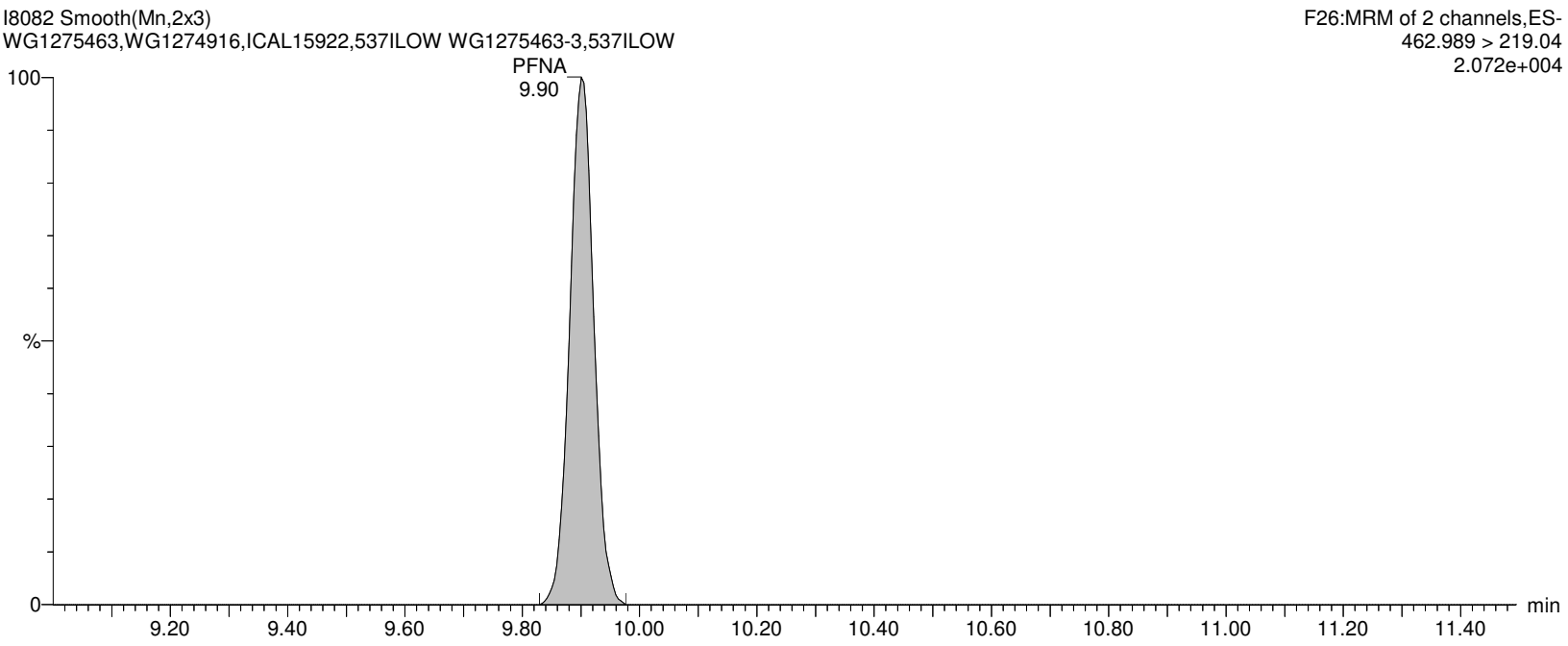
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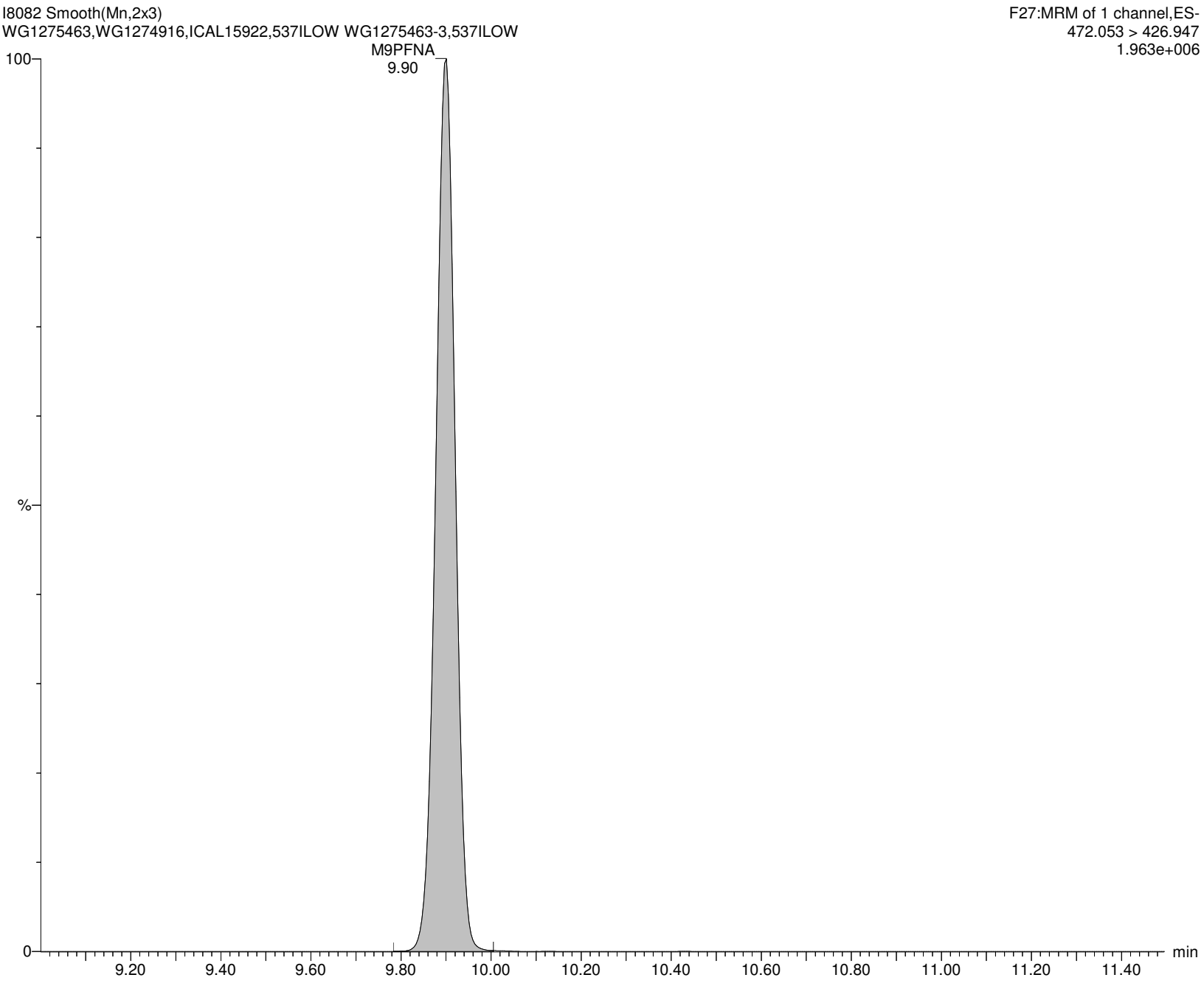


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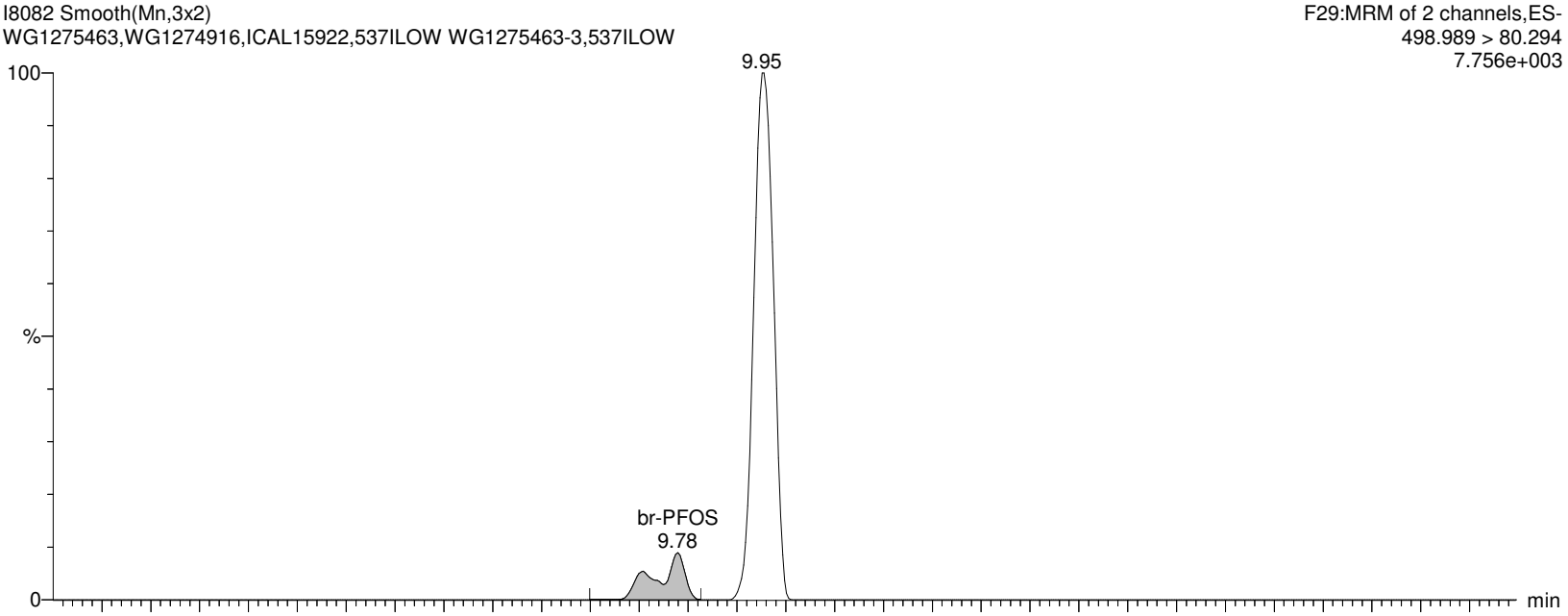


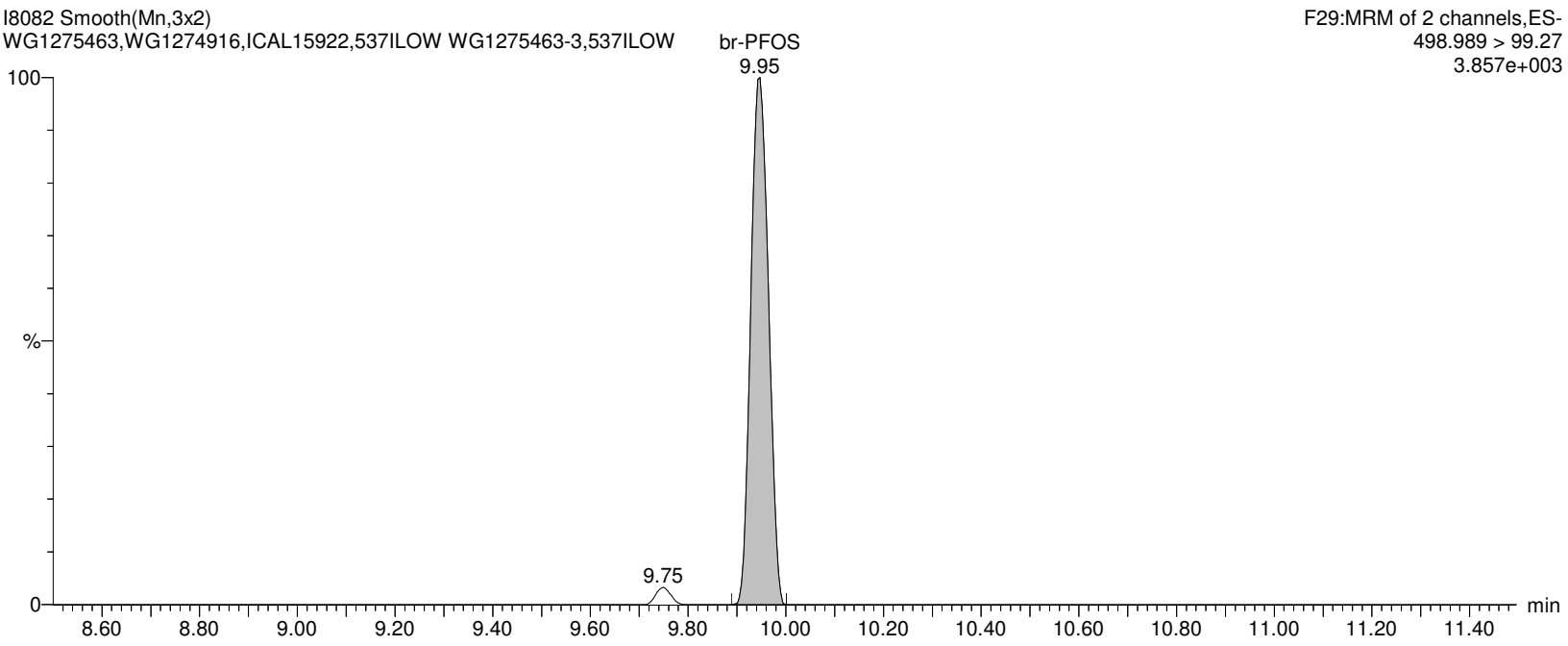
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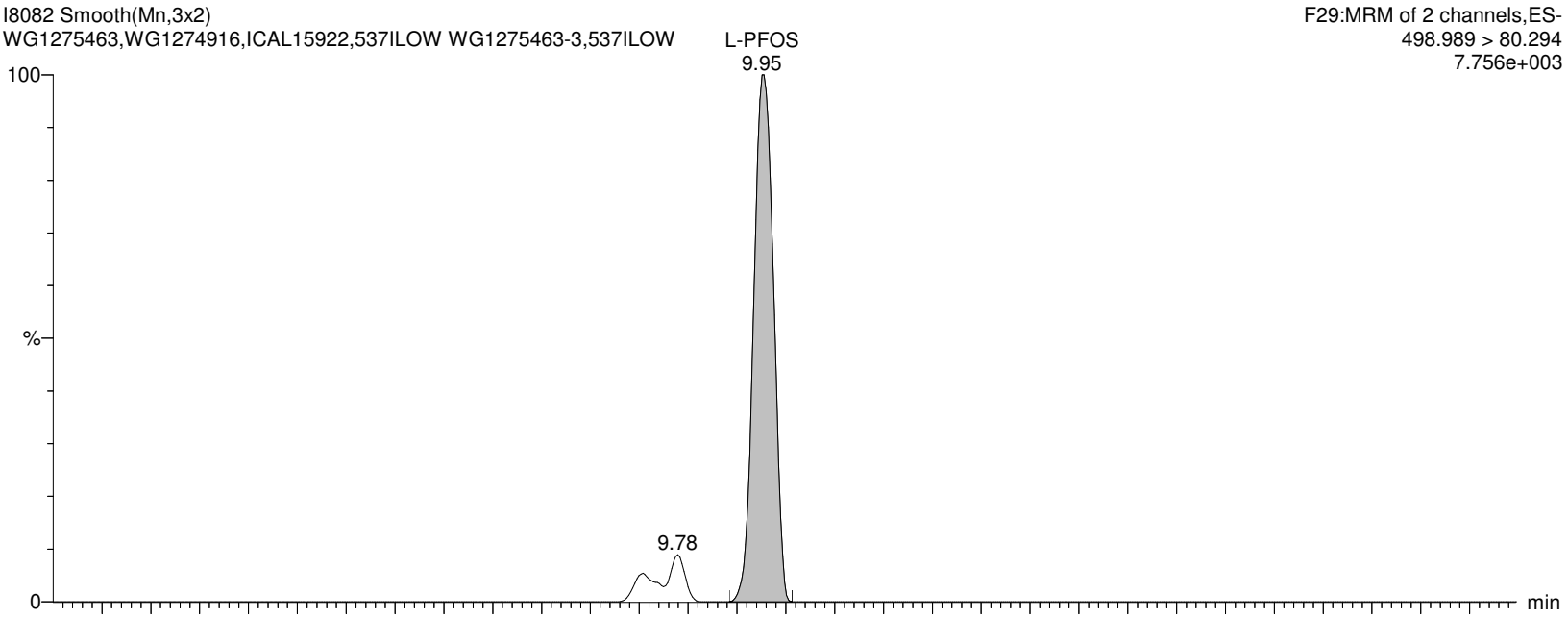


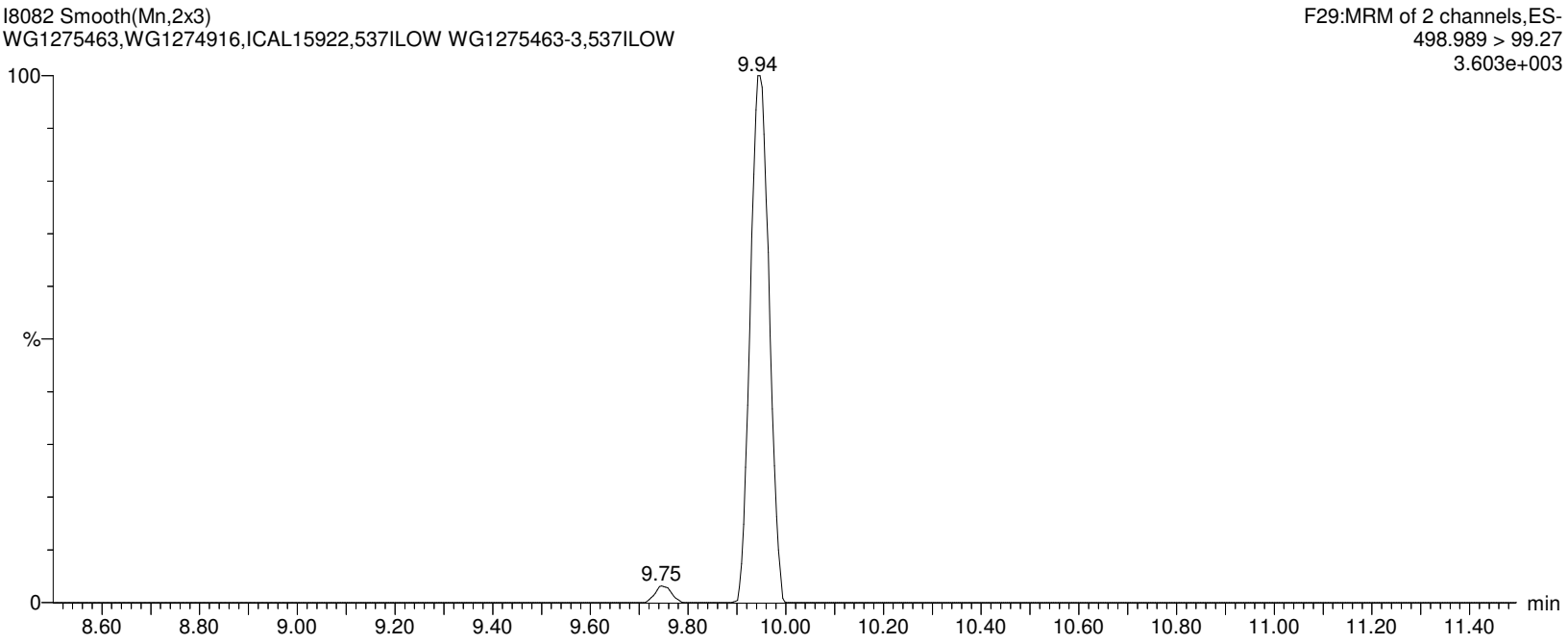
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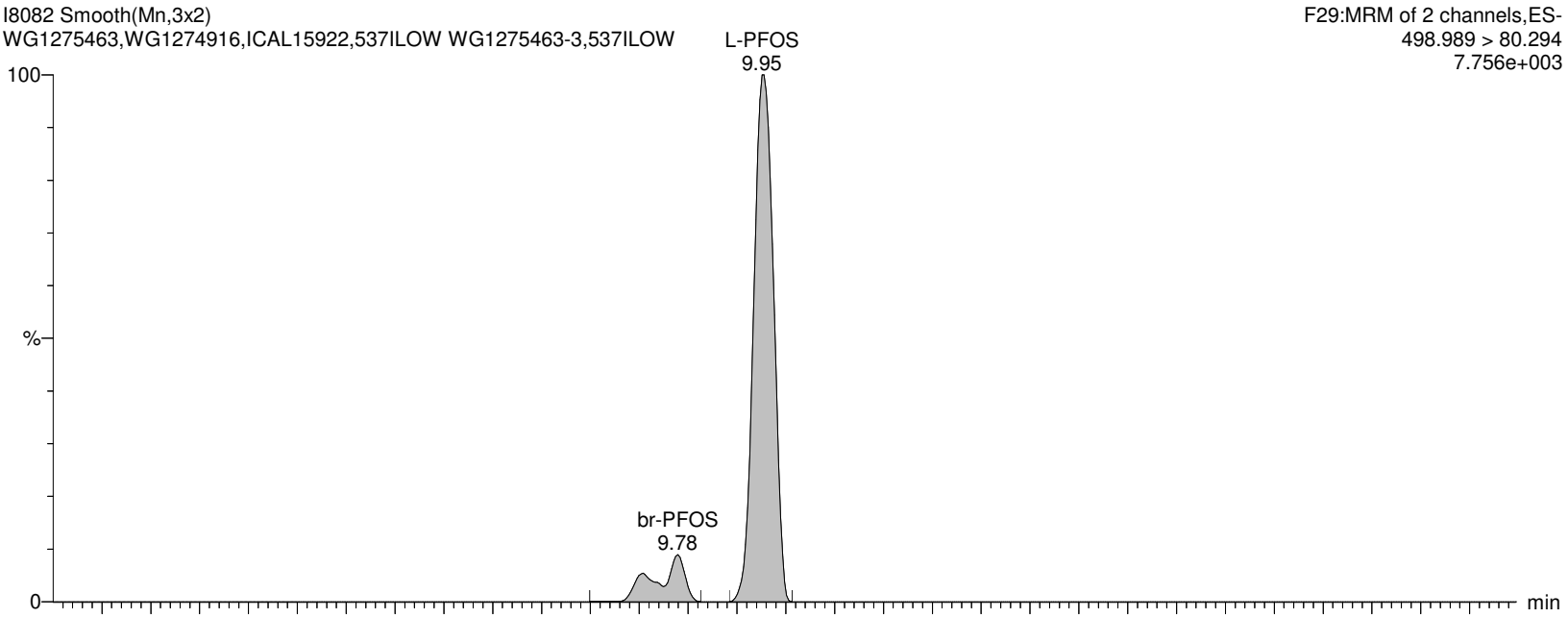


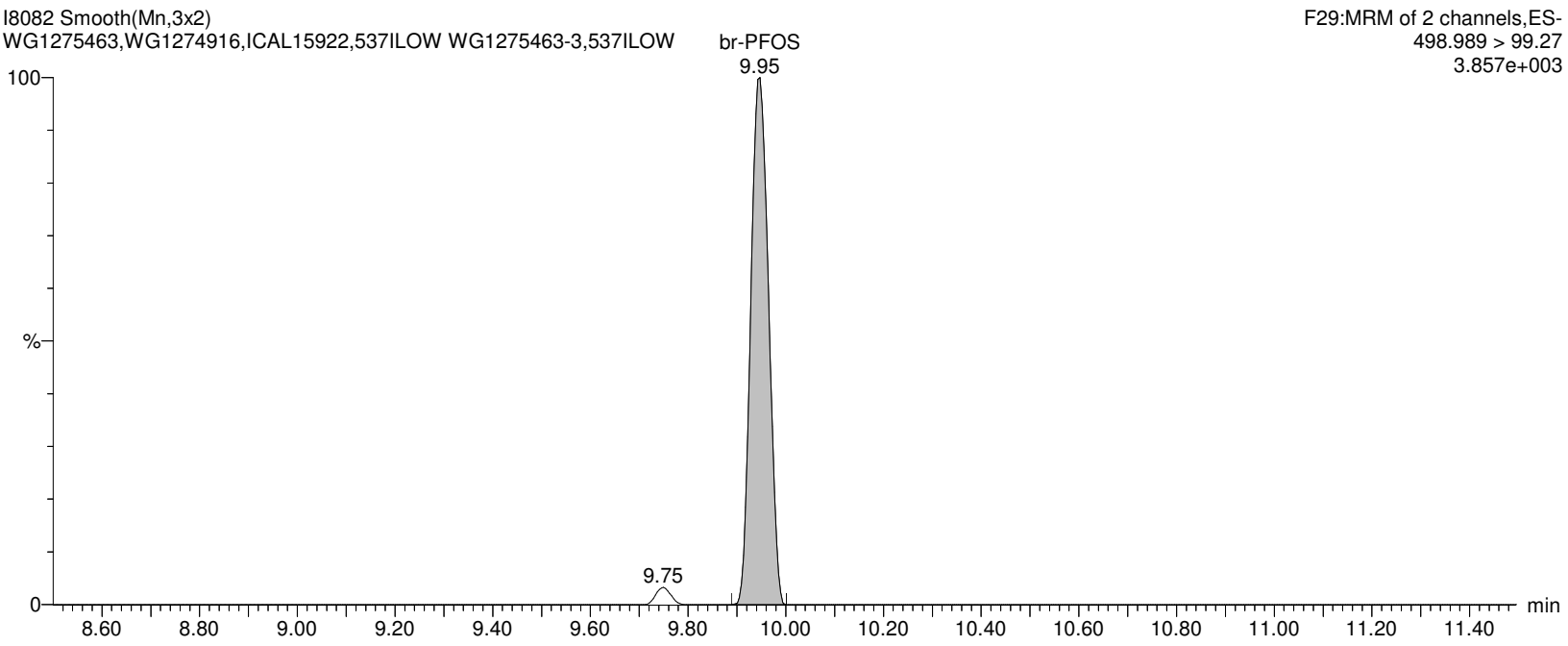
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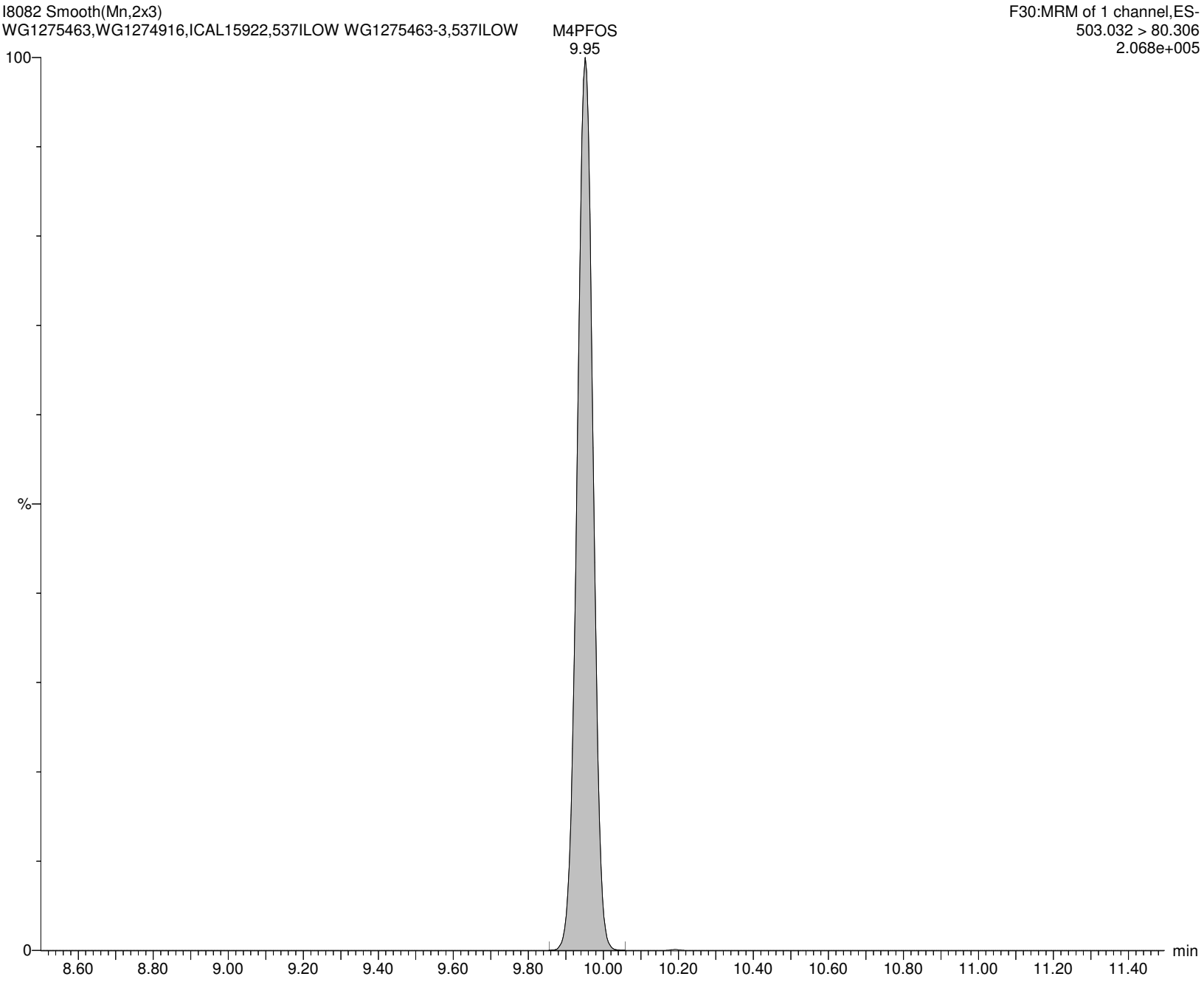


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\wg1275463b.qld
Last Altered: Friday, August 23, 2019 09:30:32 Eastern Daylight Time
Printed: Friday, August 23, 2019 09:30:48 Eastern Daylight Time

Name: I8082
ID: WG1275463-3,537ILOW
Date: 22-Aug-2019
Time: 16:20:56
Description: WG1275463,WG1274916,ICAL15922,537ILOW
User: LCMS02:JW
Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEB0050
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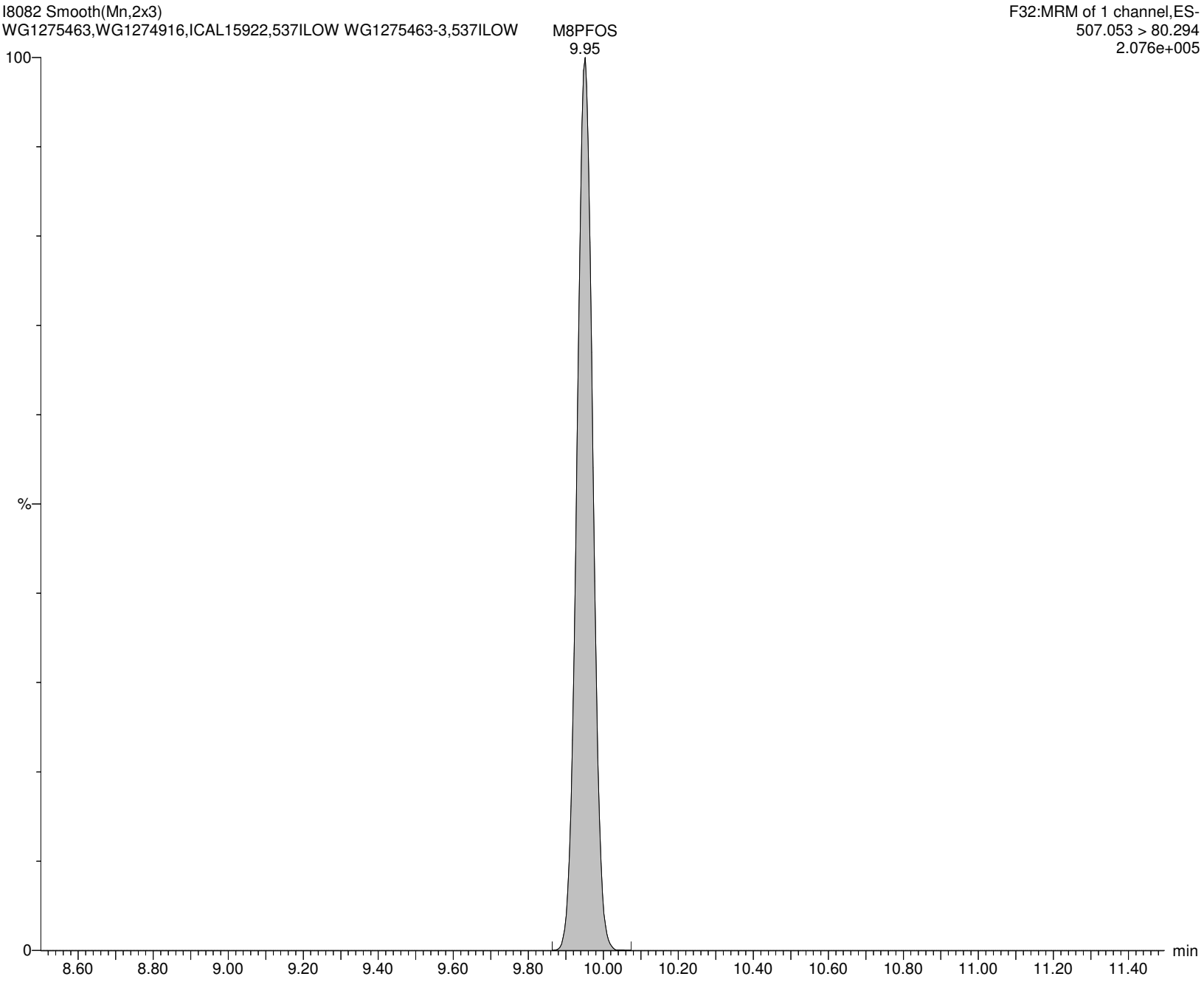


all concentration units in (ng/mL)

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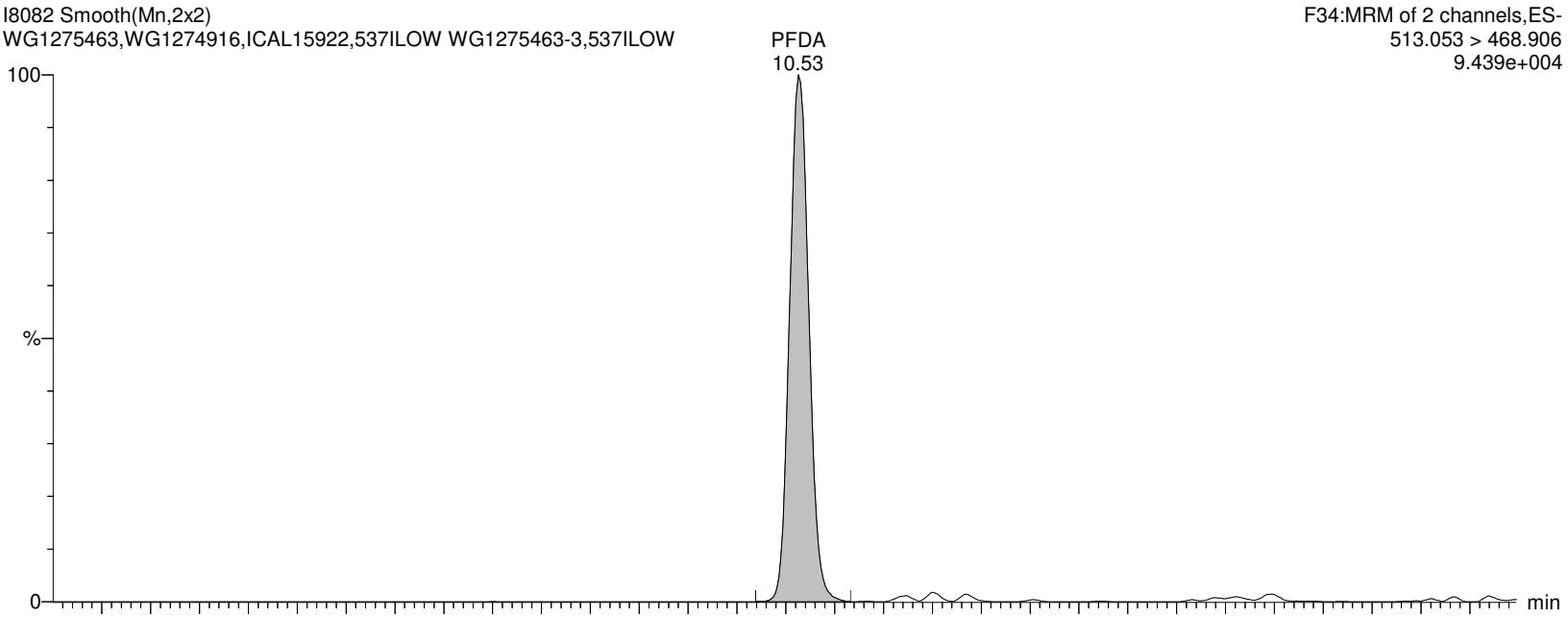


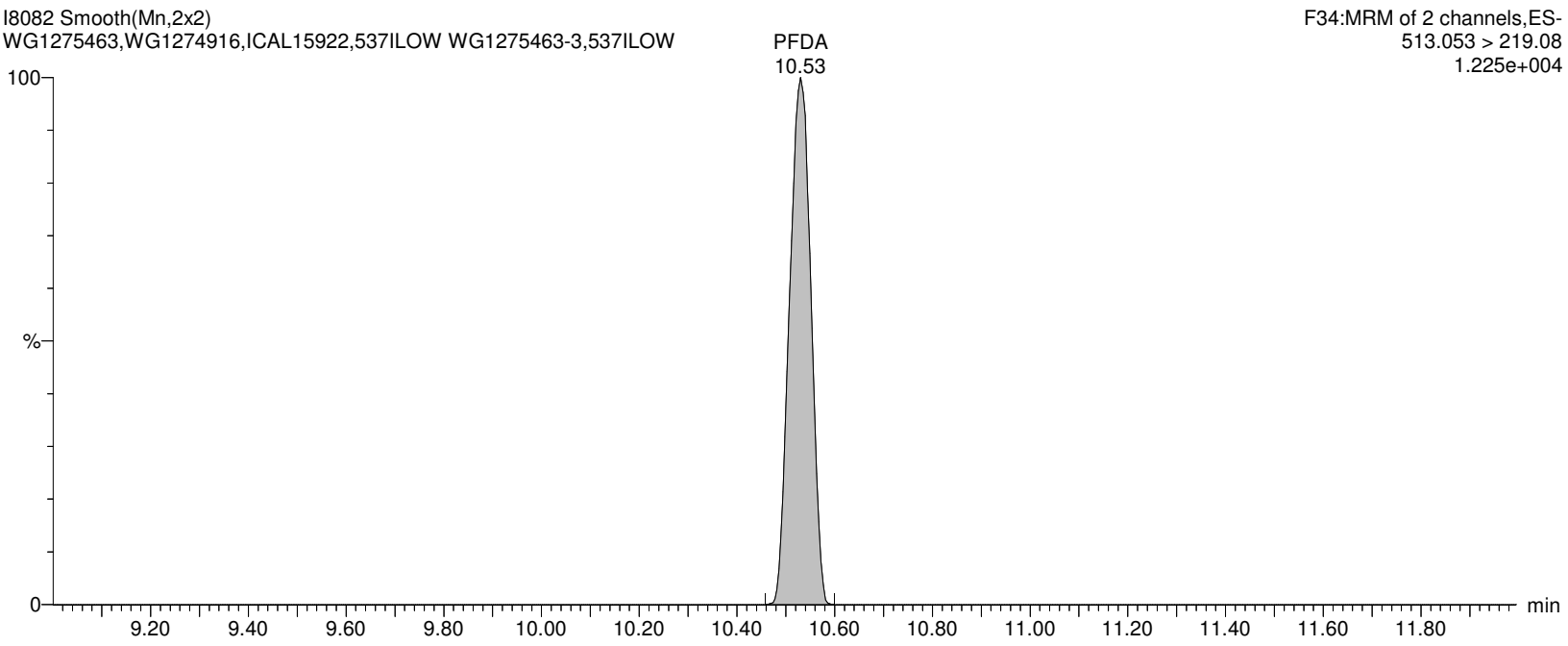
all concentration units in (ng/mL)

Alpha Analytical Inc.
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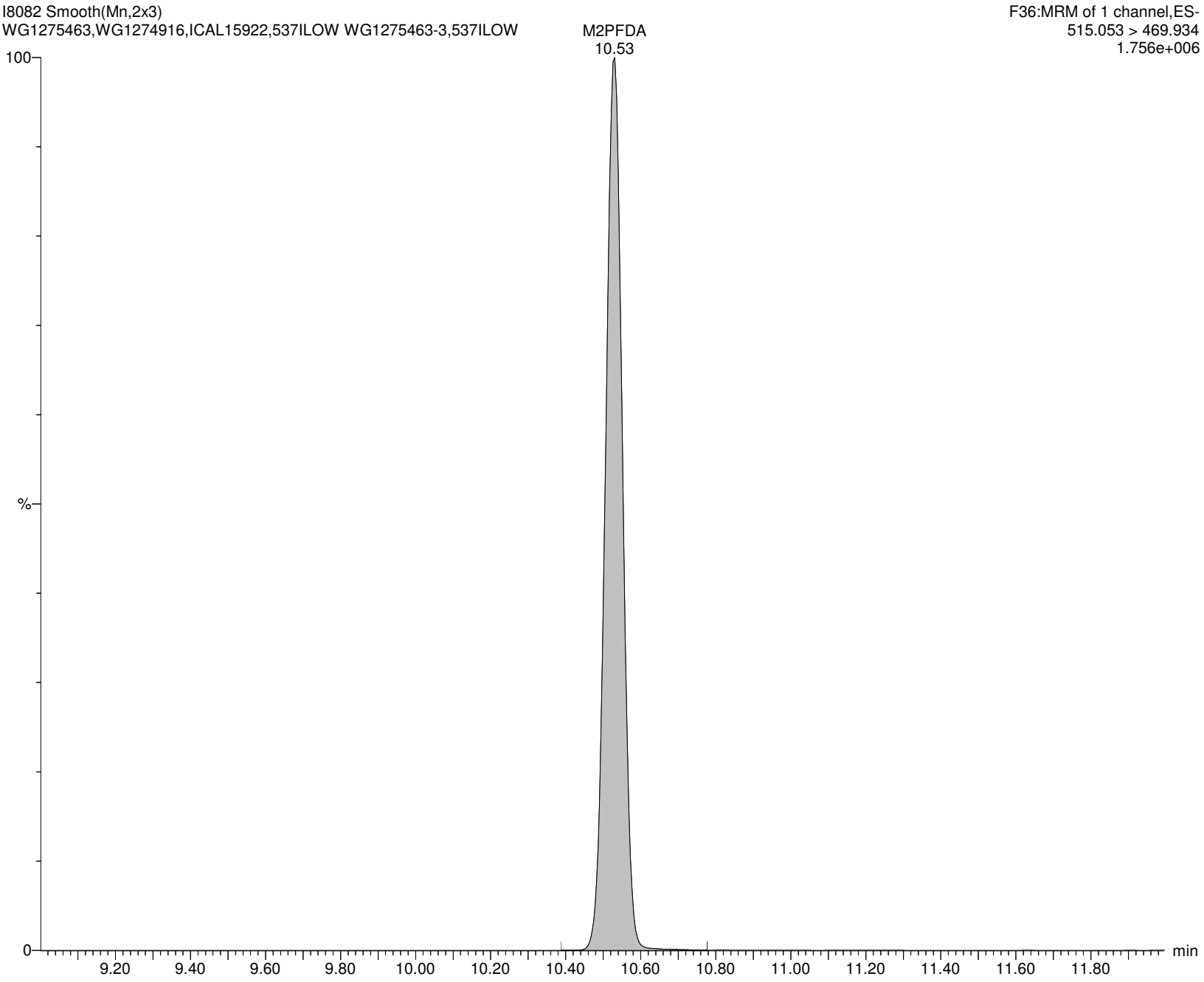


all concentration units in (ng/mL)

Alpha Analytical Inc.
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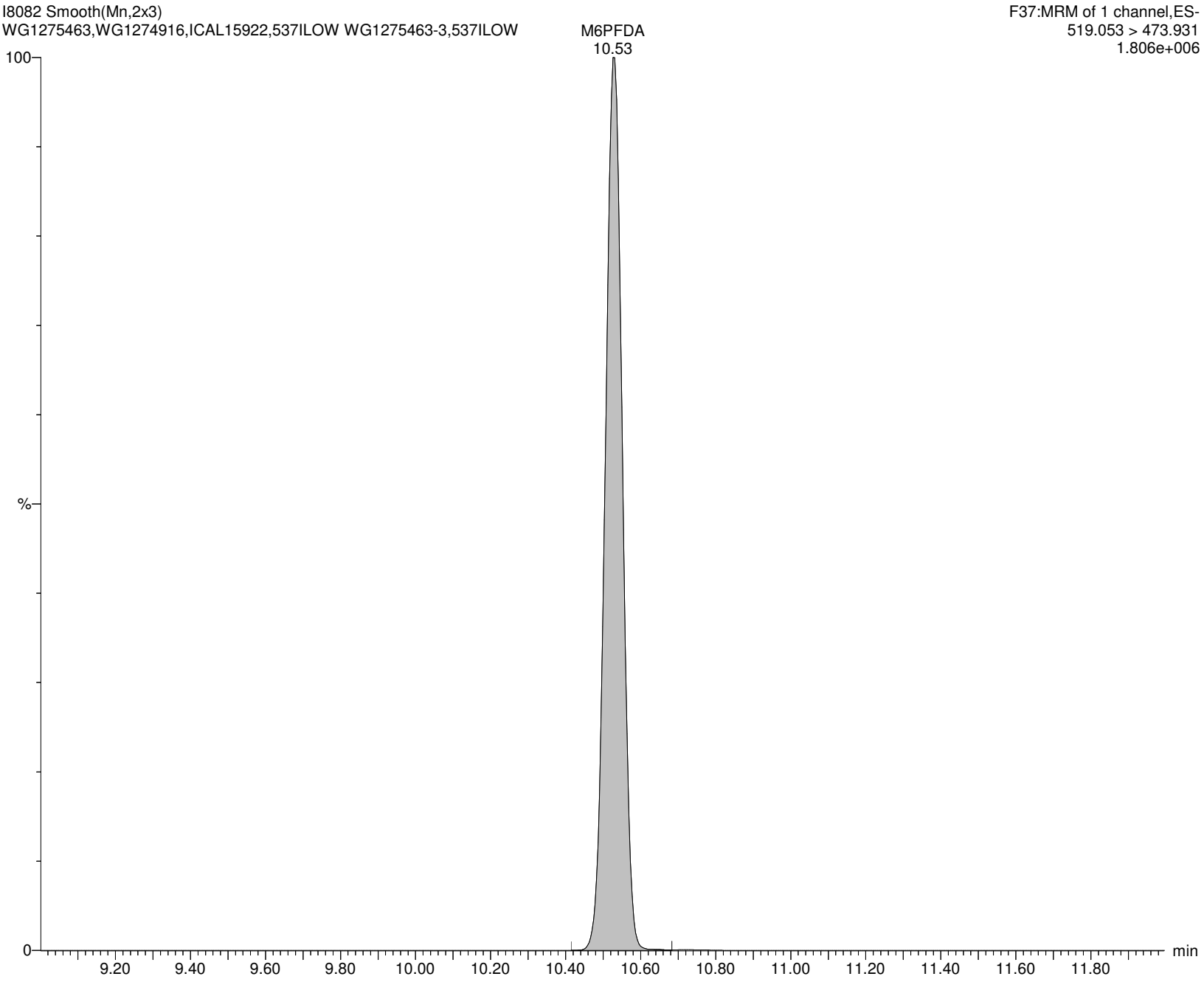


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\wg1275463b.qld
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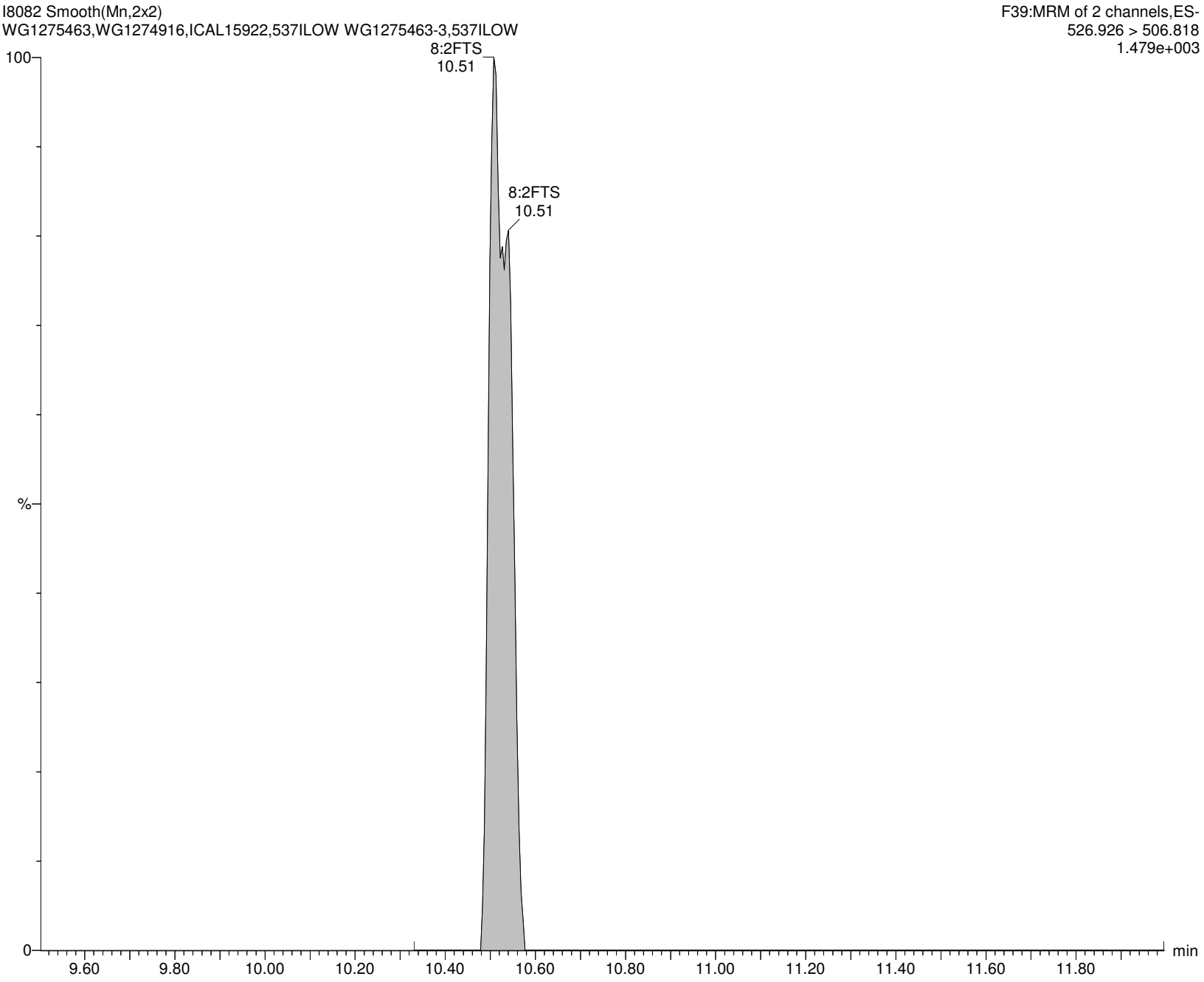


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Vial: 1:A,2
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8:2FTS

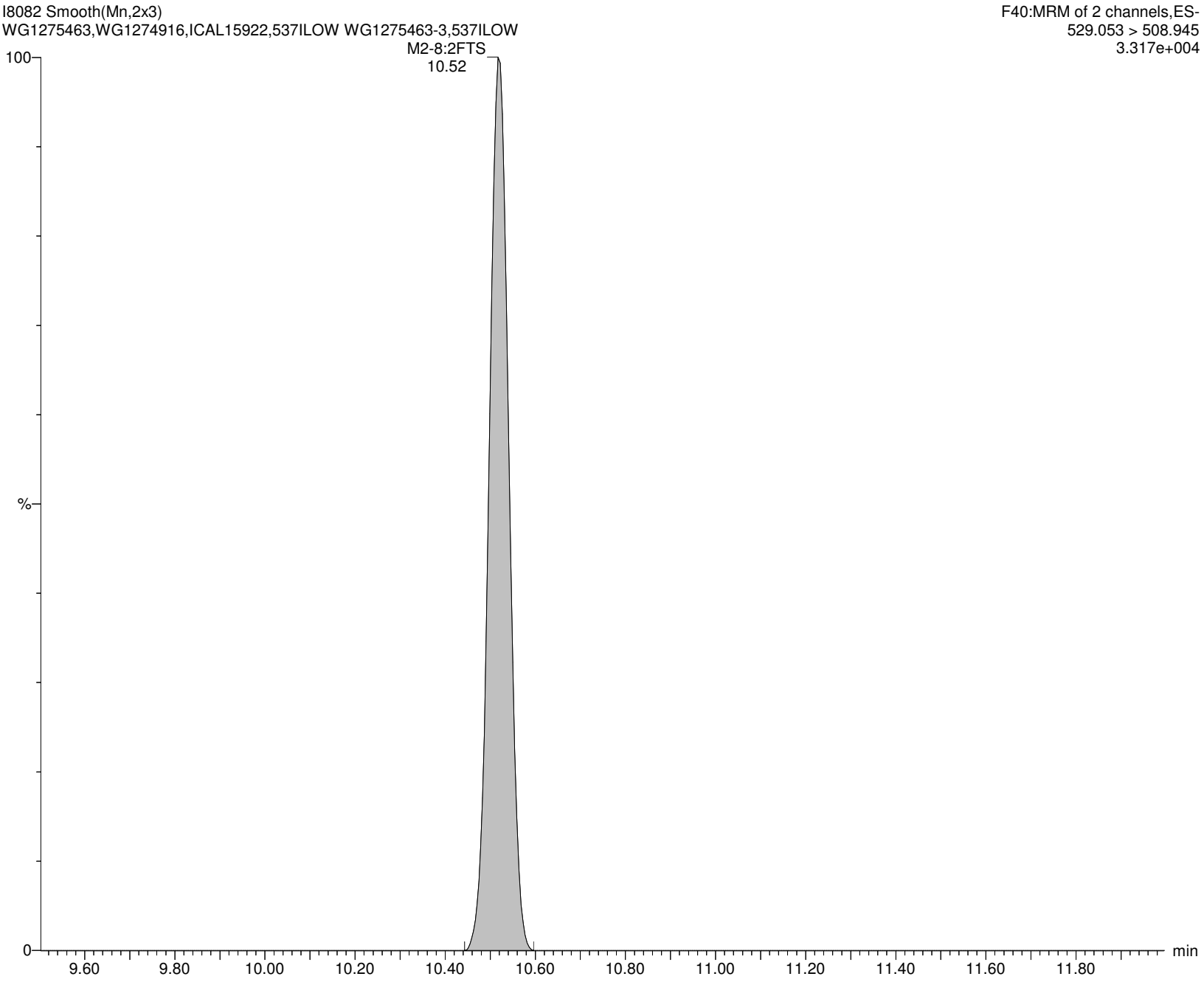


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Vial: 1:A,2
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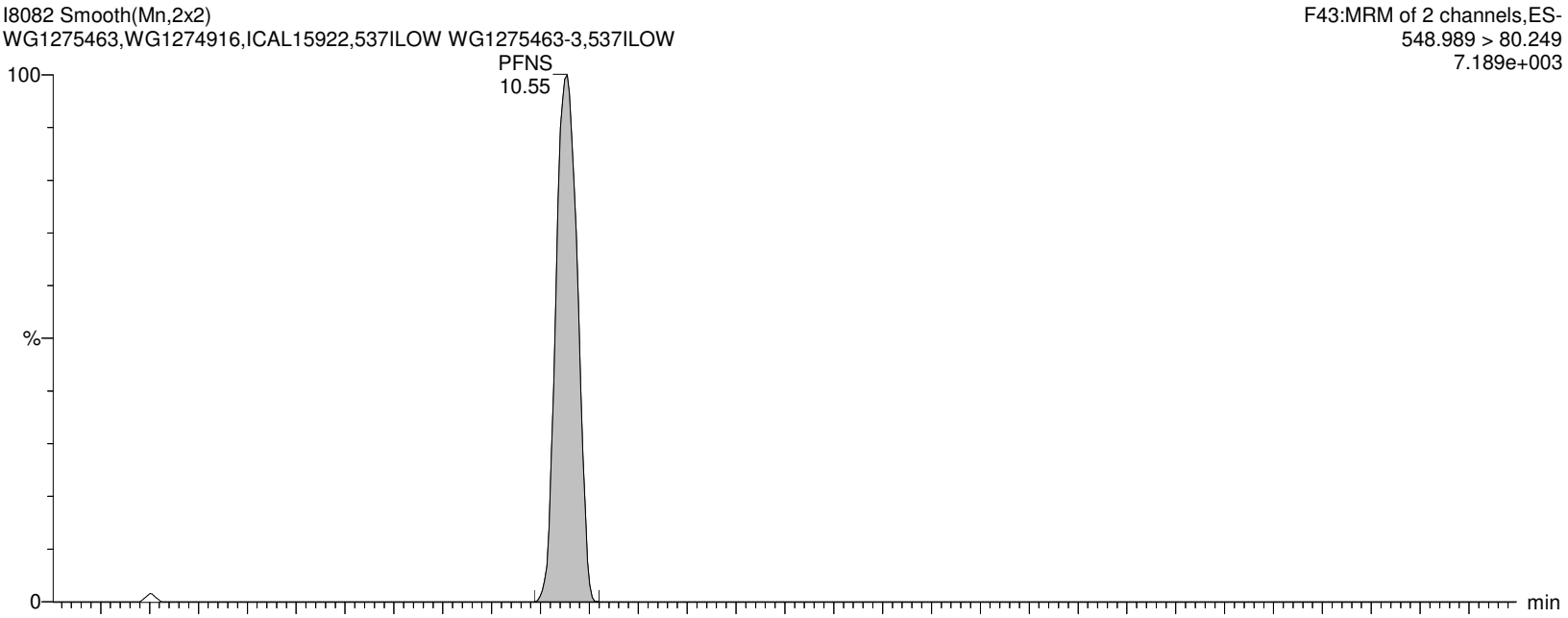


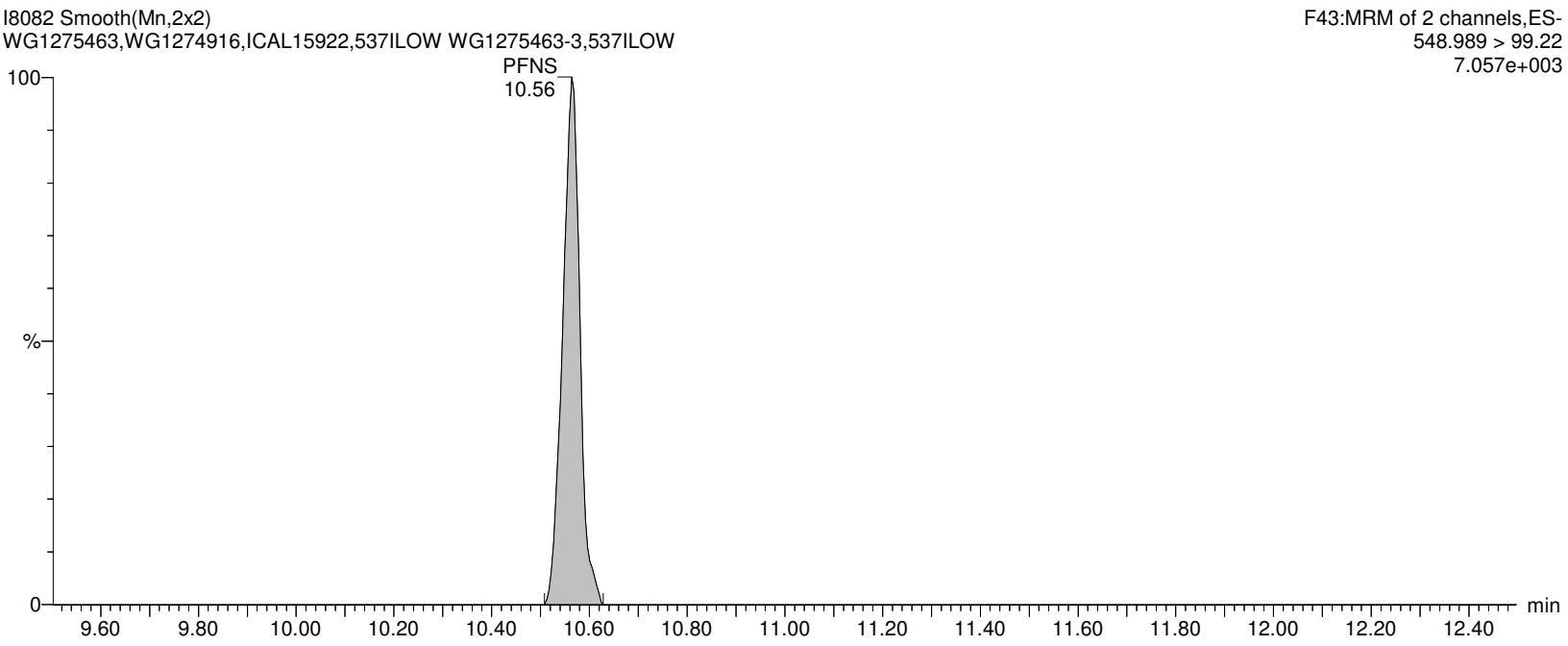
all concentration units in (ng/mL)

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Vial: 1:A,2
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PFNS



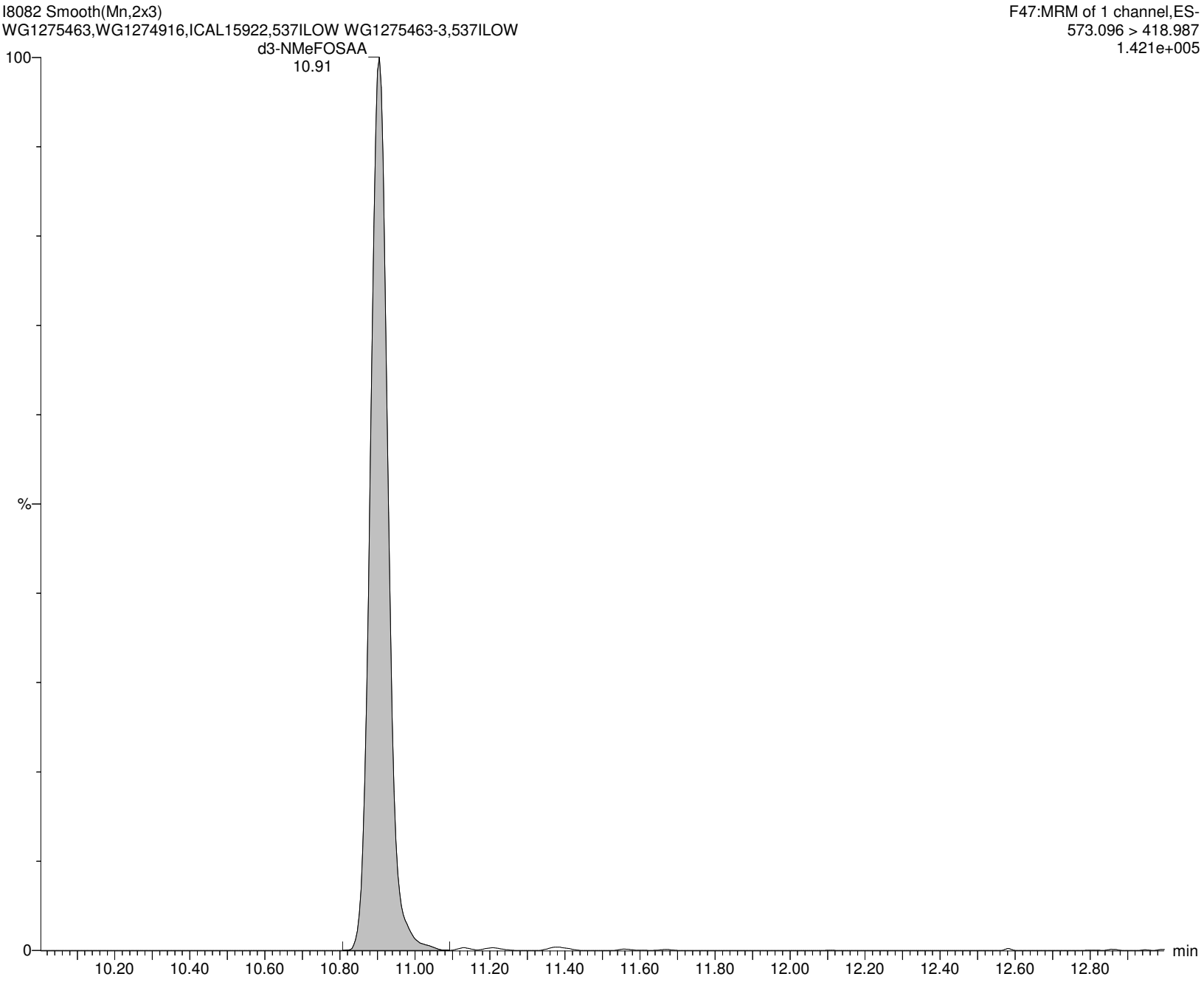


all concentration units in (ng/mL)

Alpha Analytical Inc.
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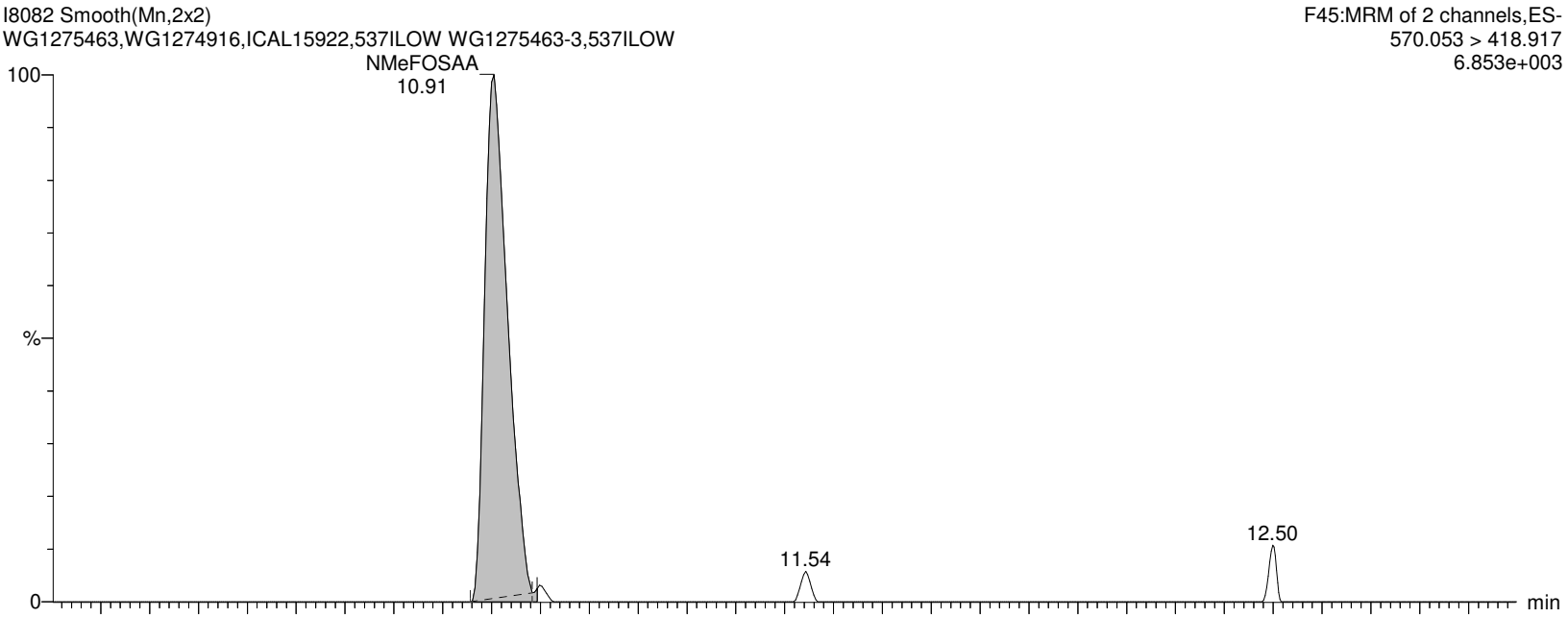


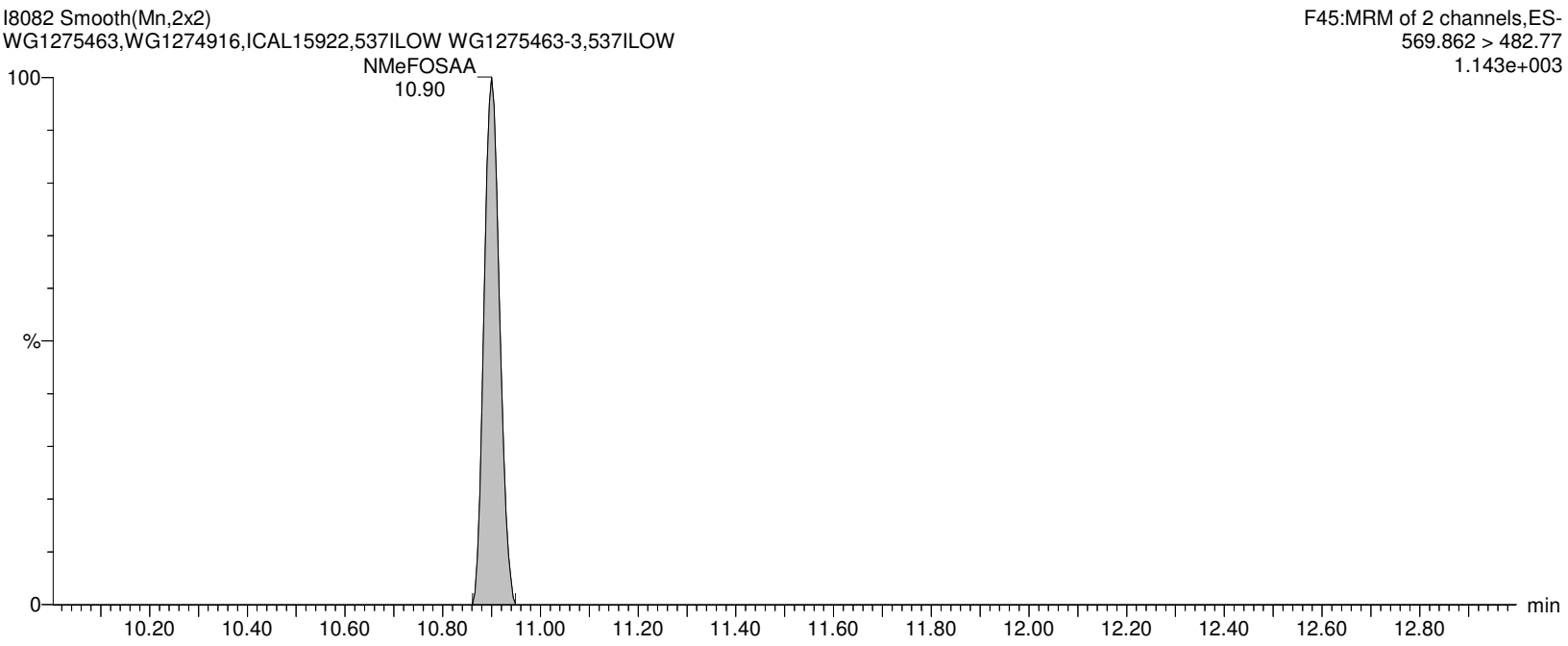
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\wg1275463b.qld
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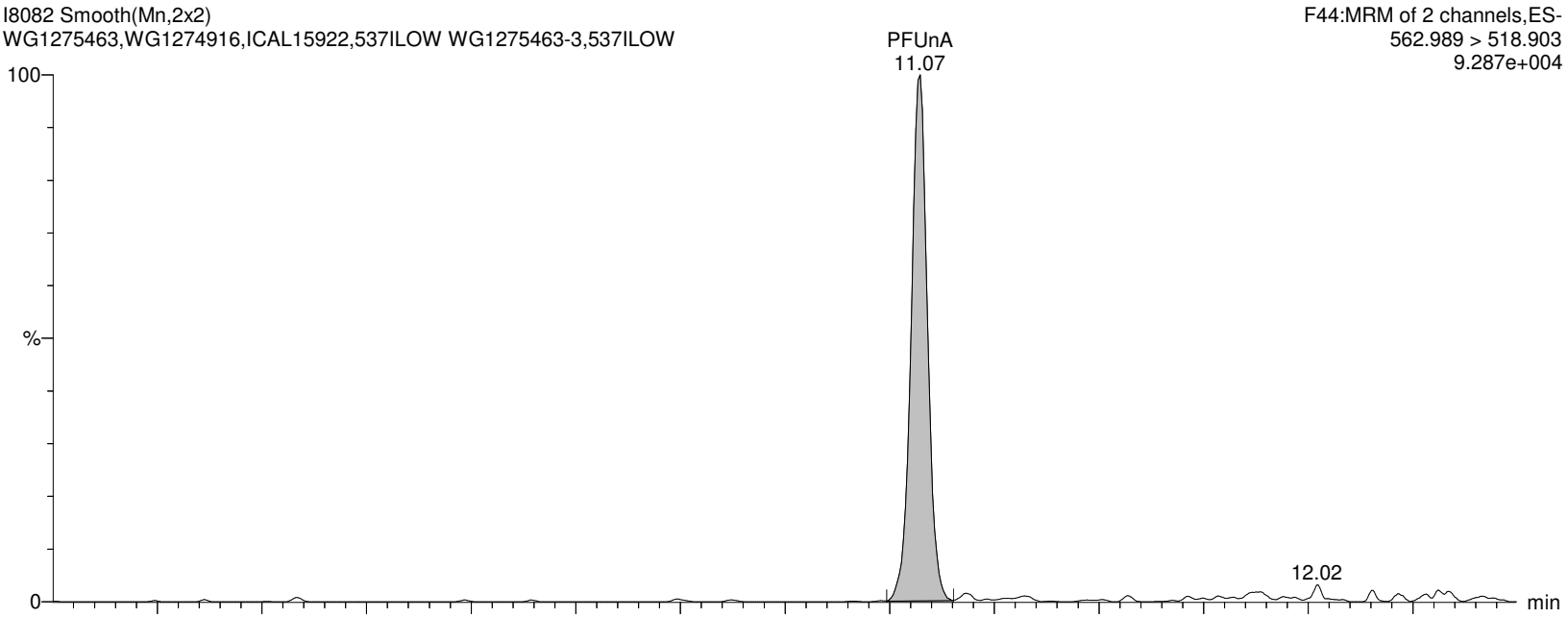


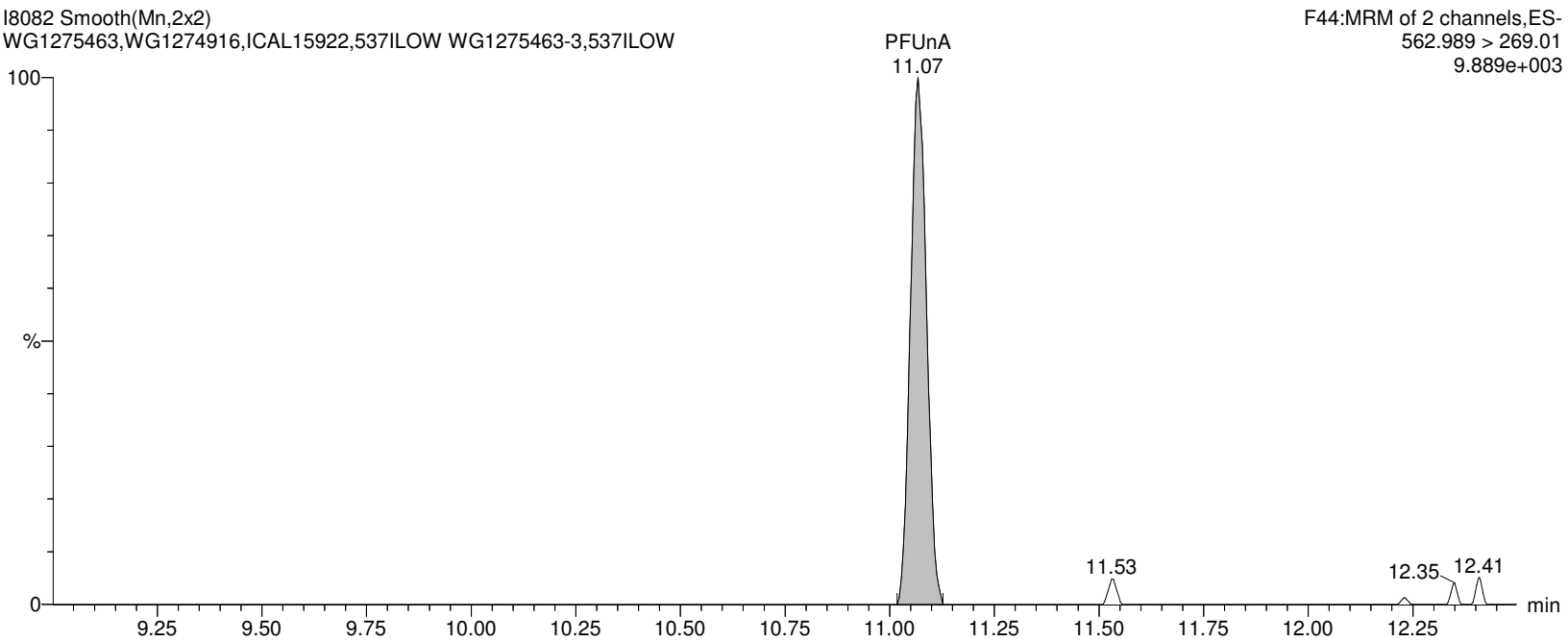
all concentration units in (ng/mL)

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Vial: 1:A,2
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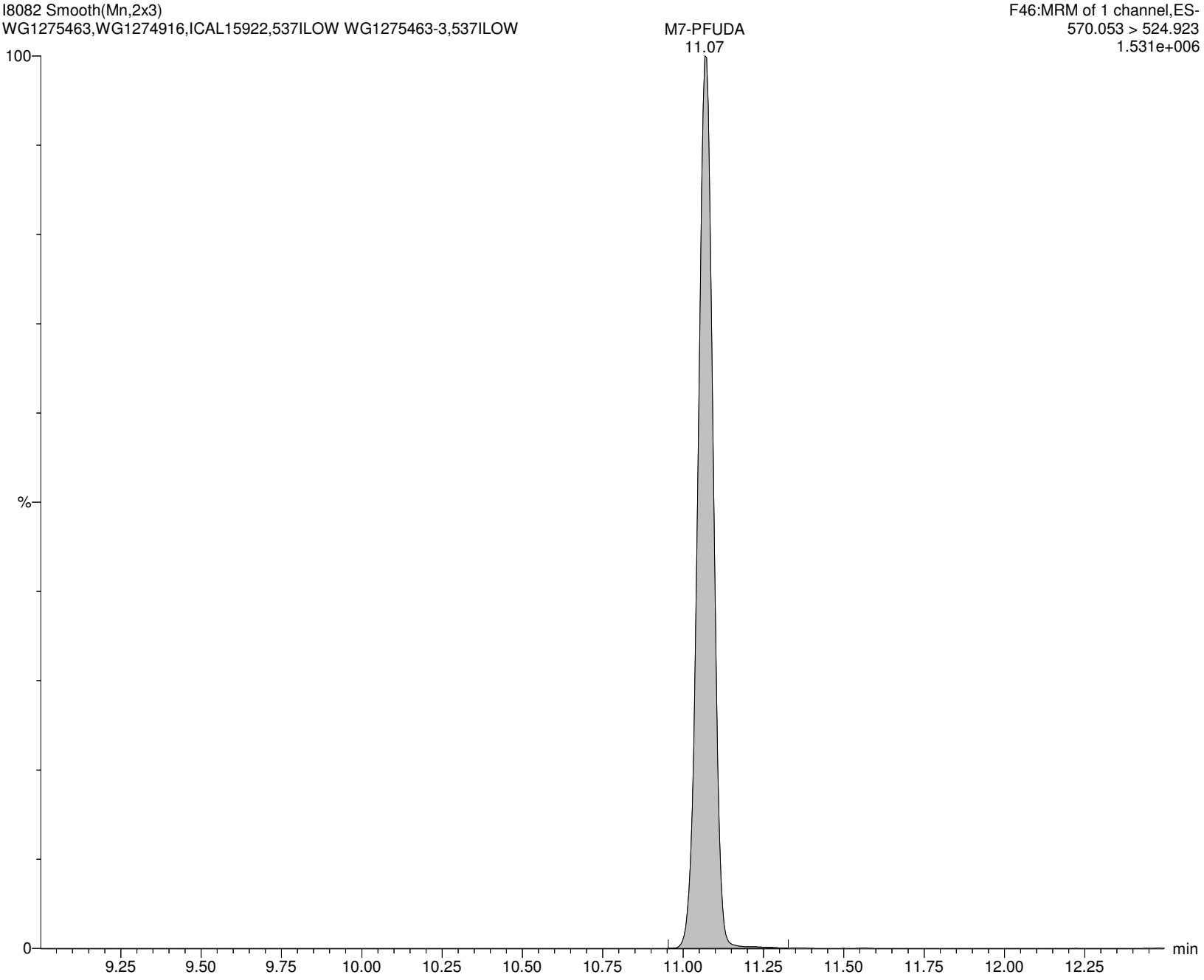


all concentration units in (ng/mL)

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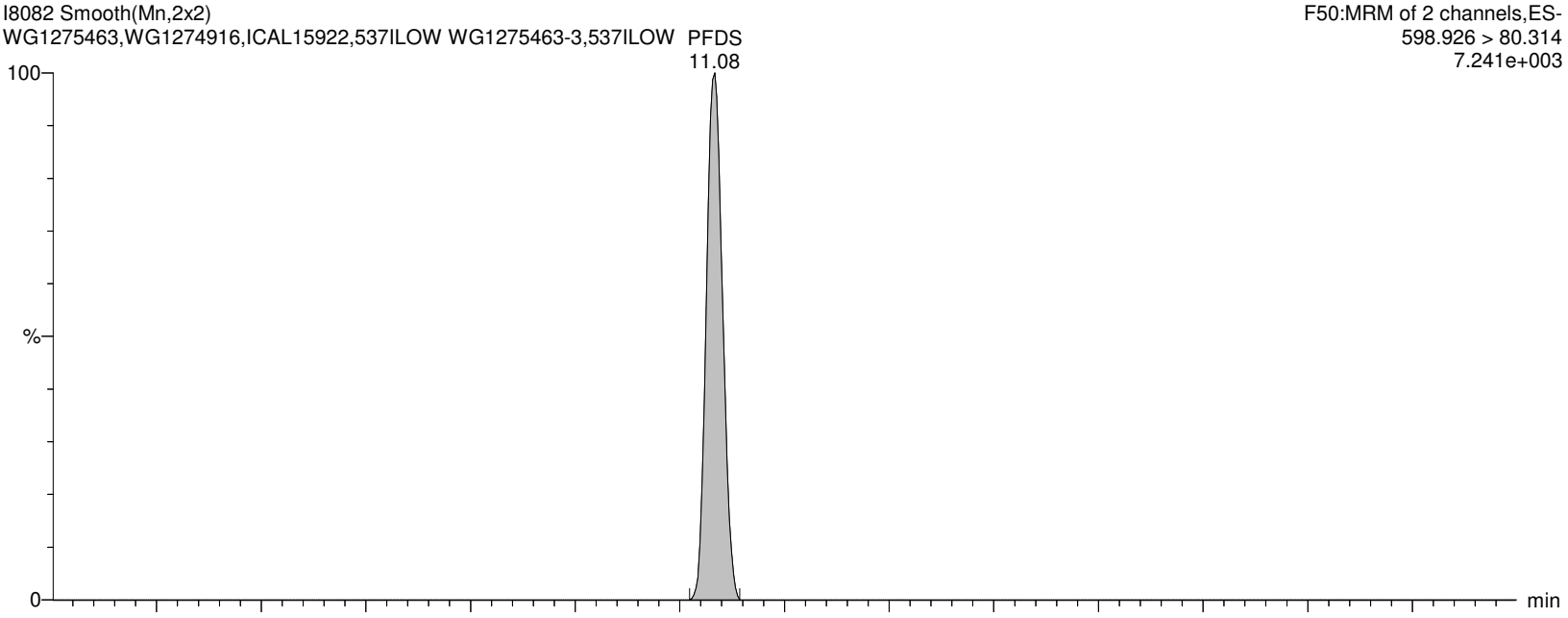


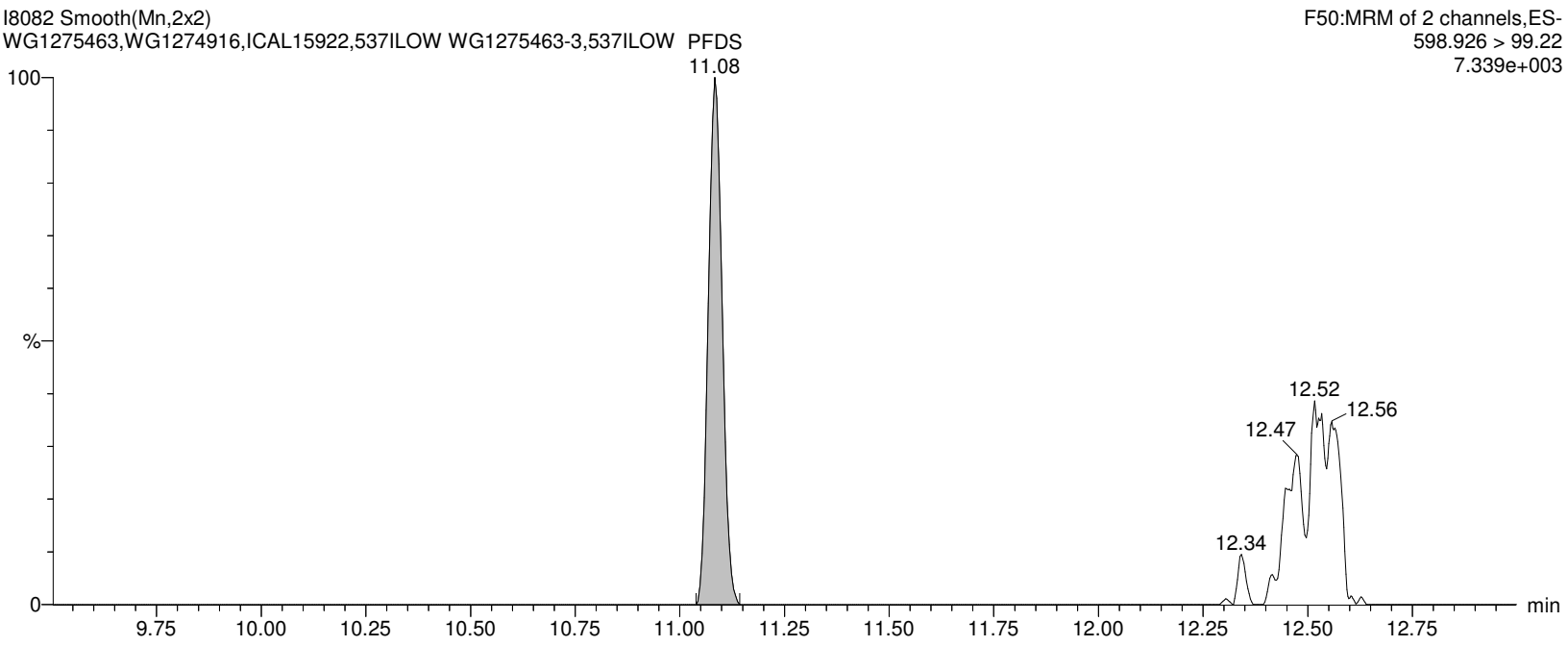
all concentration units in (ng/mL)

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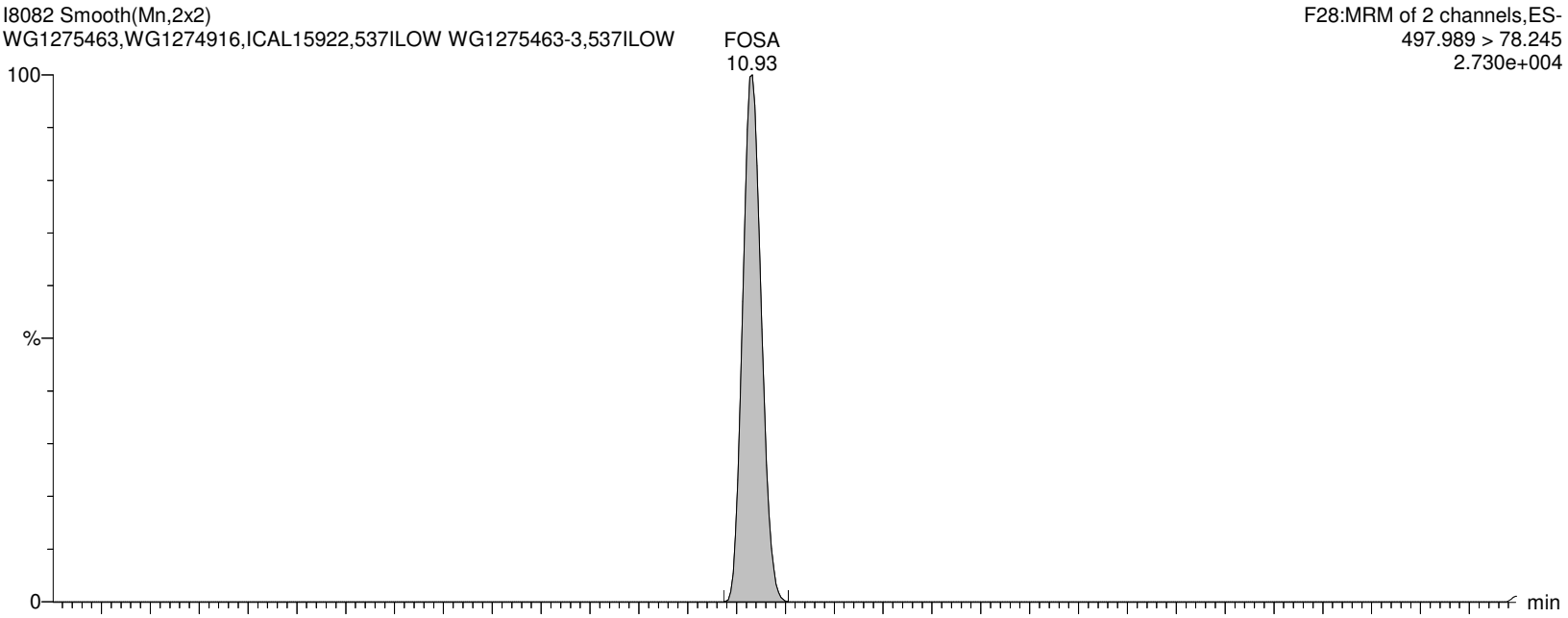


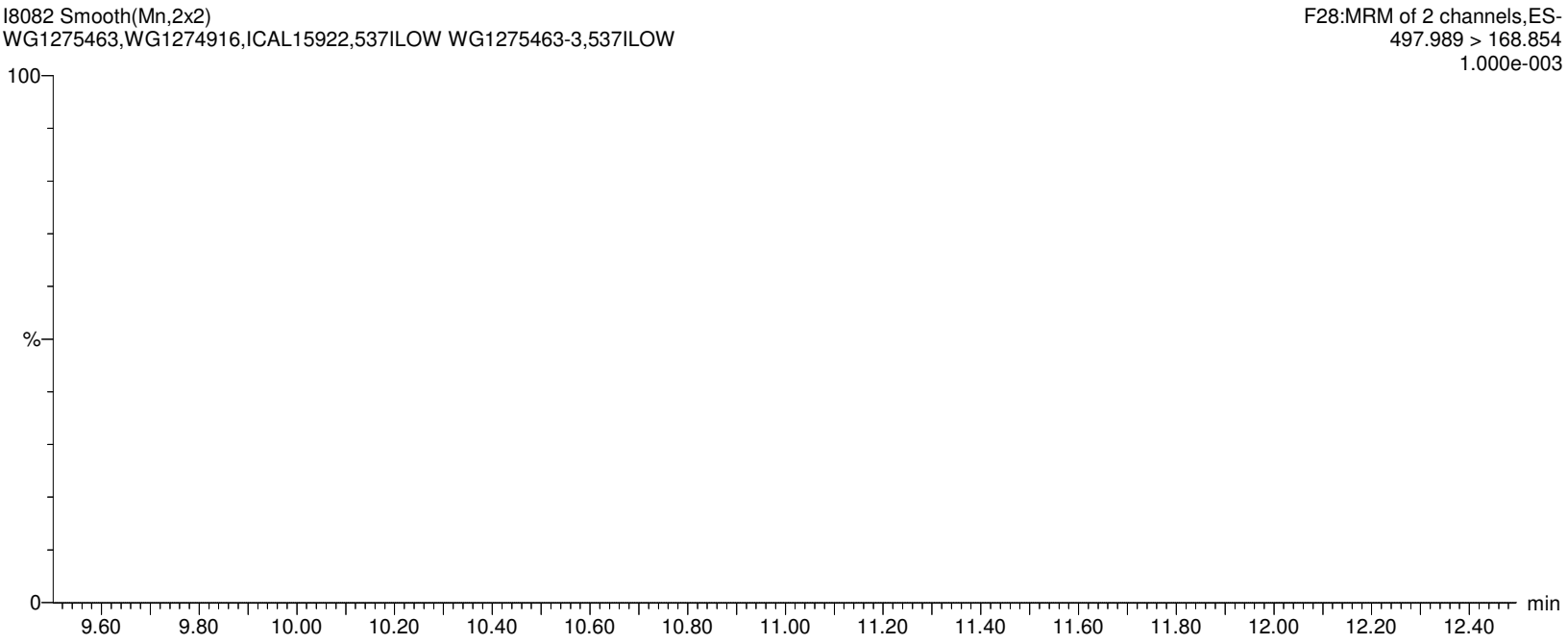
all concentration units in (ng/mL)

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FOSA



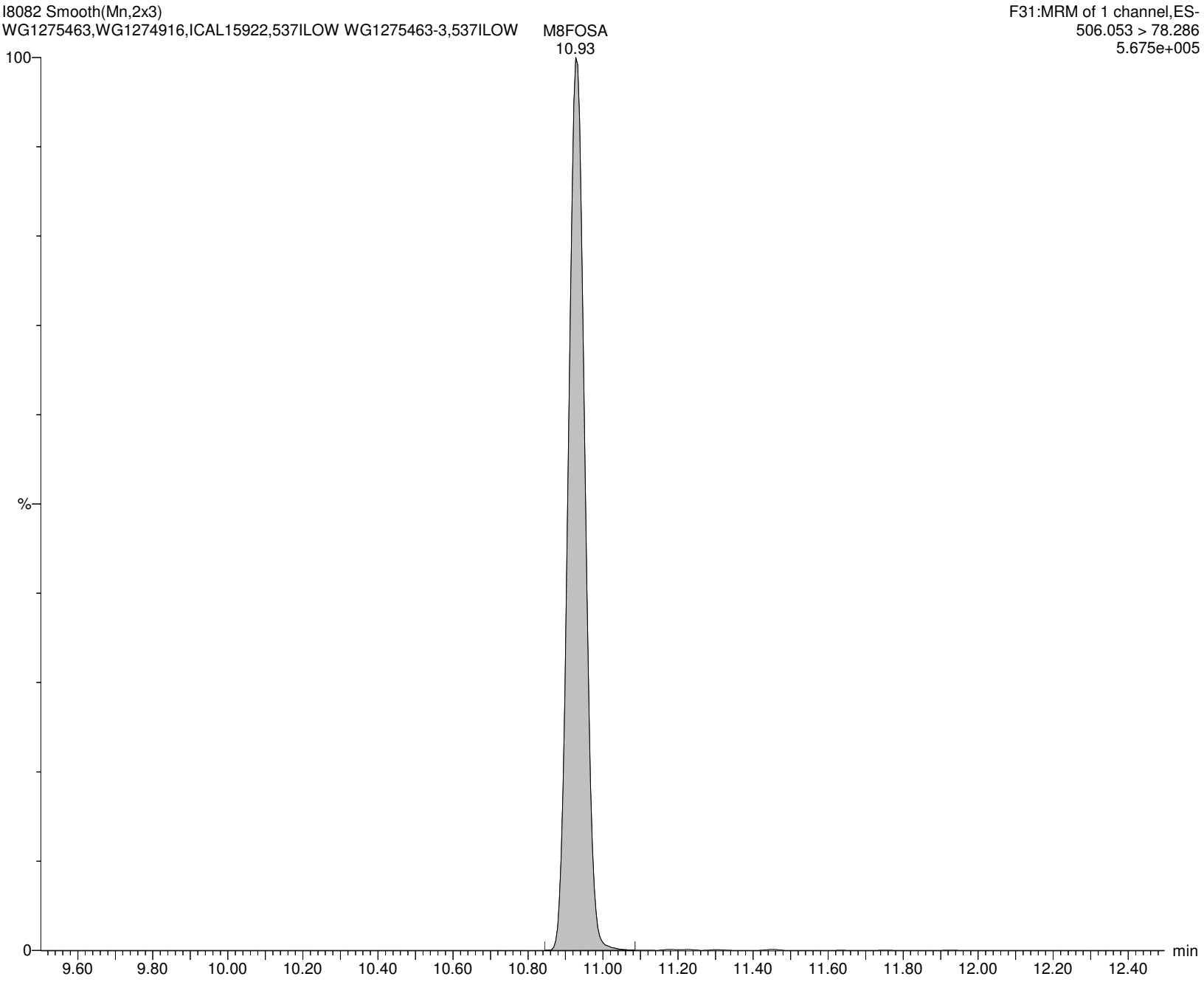


all concentration units in (ng/mL)

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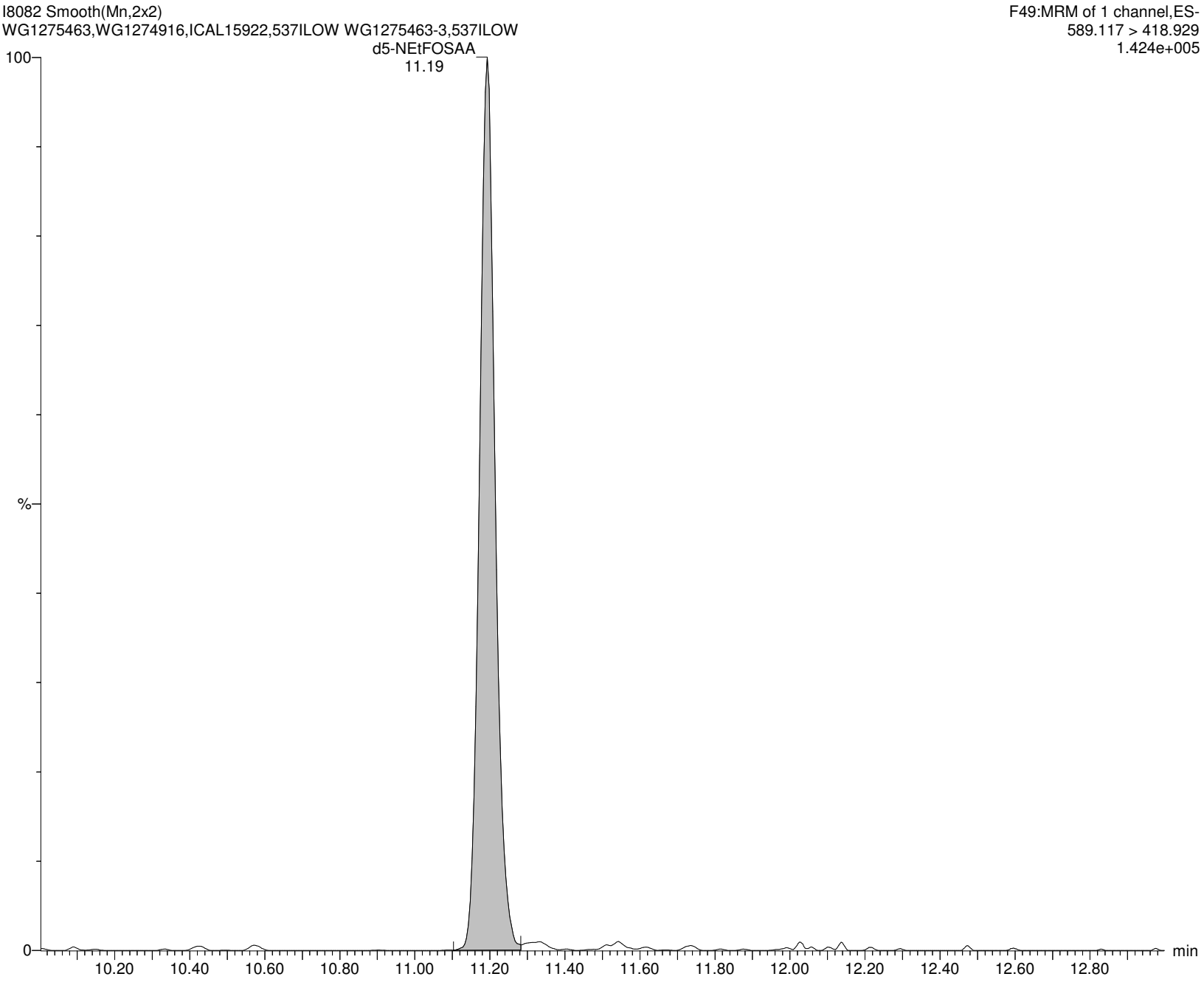


all concentration units in (ng/mL)

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Description: WG1275463,WG1274916,ICAL15922,537ILOW
User: LCMS02:JW
Vial: 1:A,2
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
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d5-NEtFOSAA

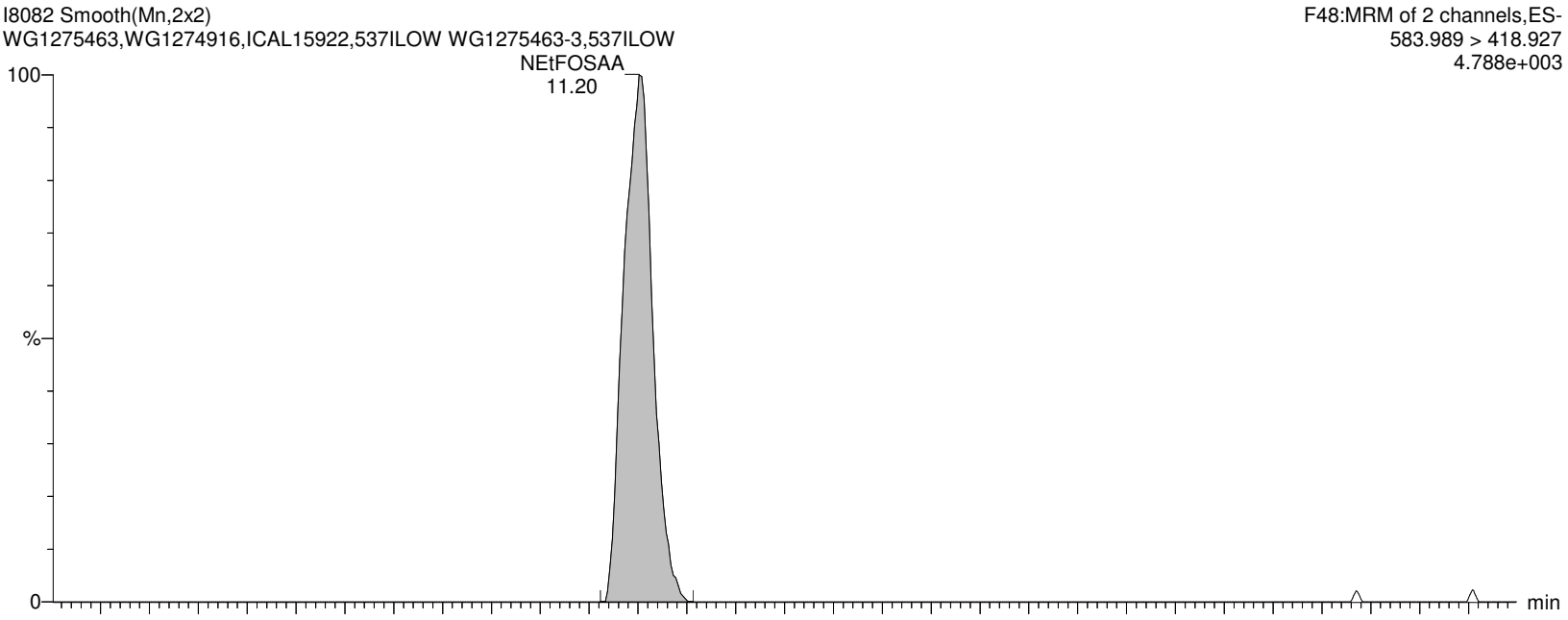


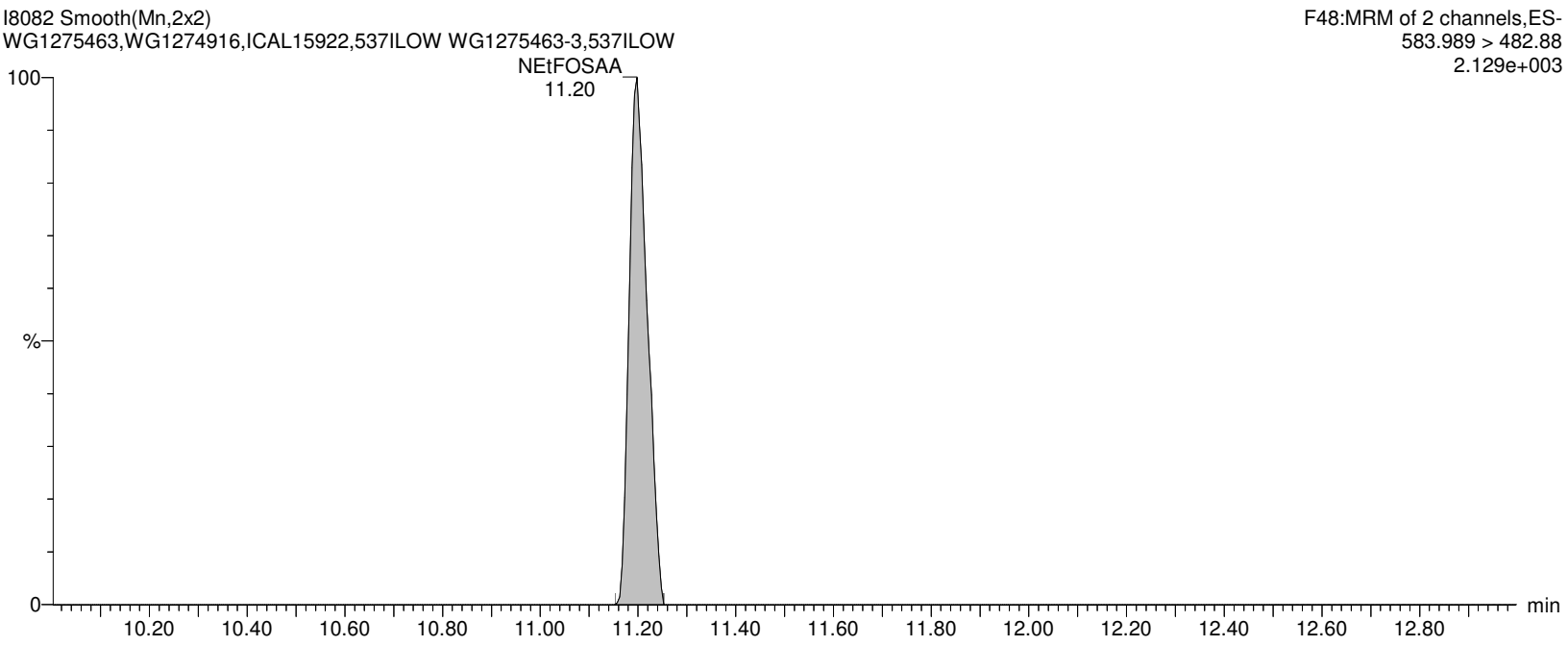
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Friday, August 23, 2019 09:30:32 Eastern Daylight Time
Printed: Friday, August 23, 2019 09:30:48 Eastern Daylight Time

Name: I8082
ID: WG1275463-3,537ILOW
Date: 22-Aug-2019
Time: 16:20:56
Description: WG1275463,WG1274916,ICAL15922,537ILOW
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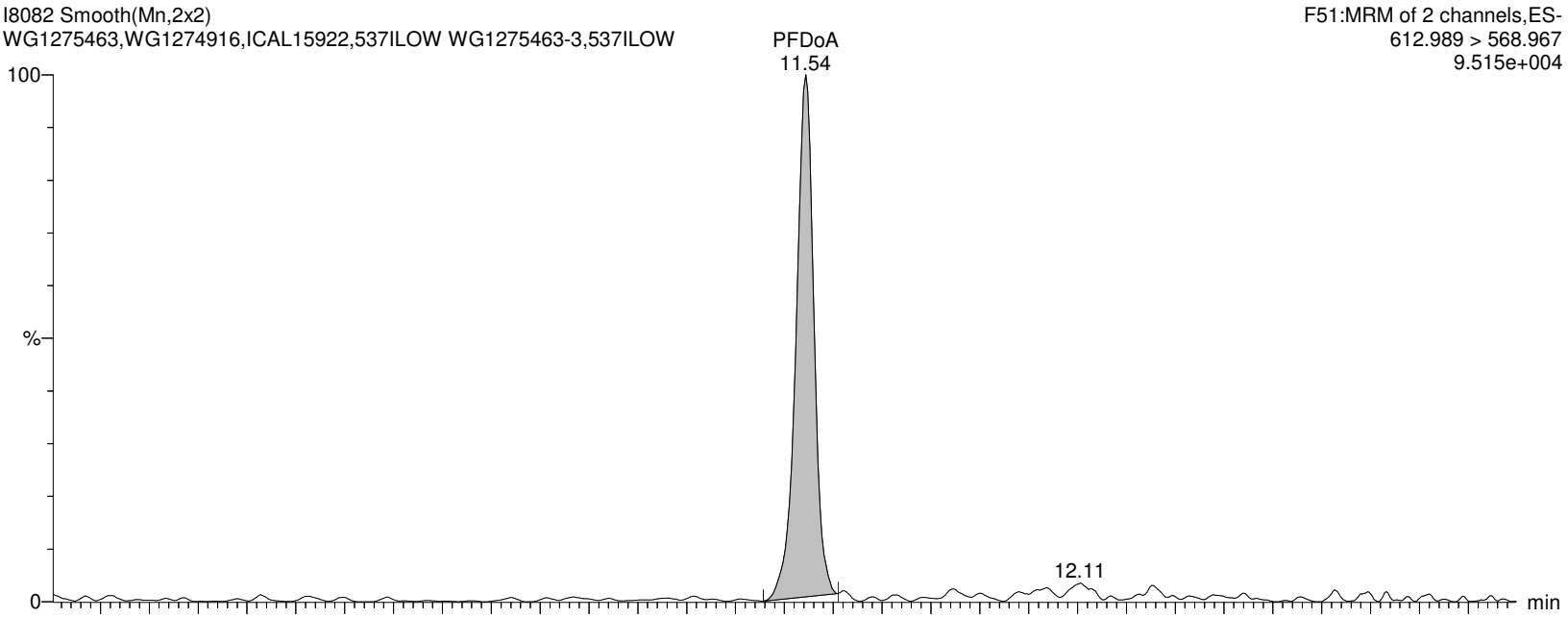


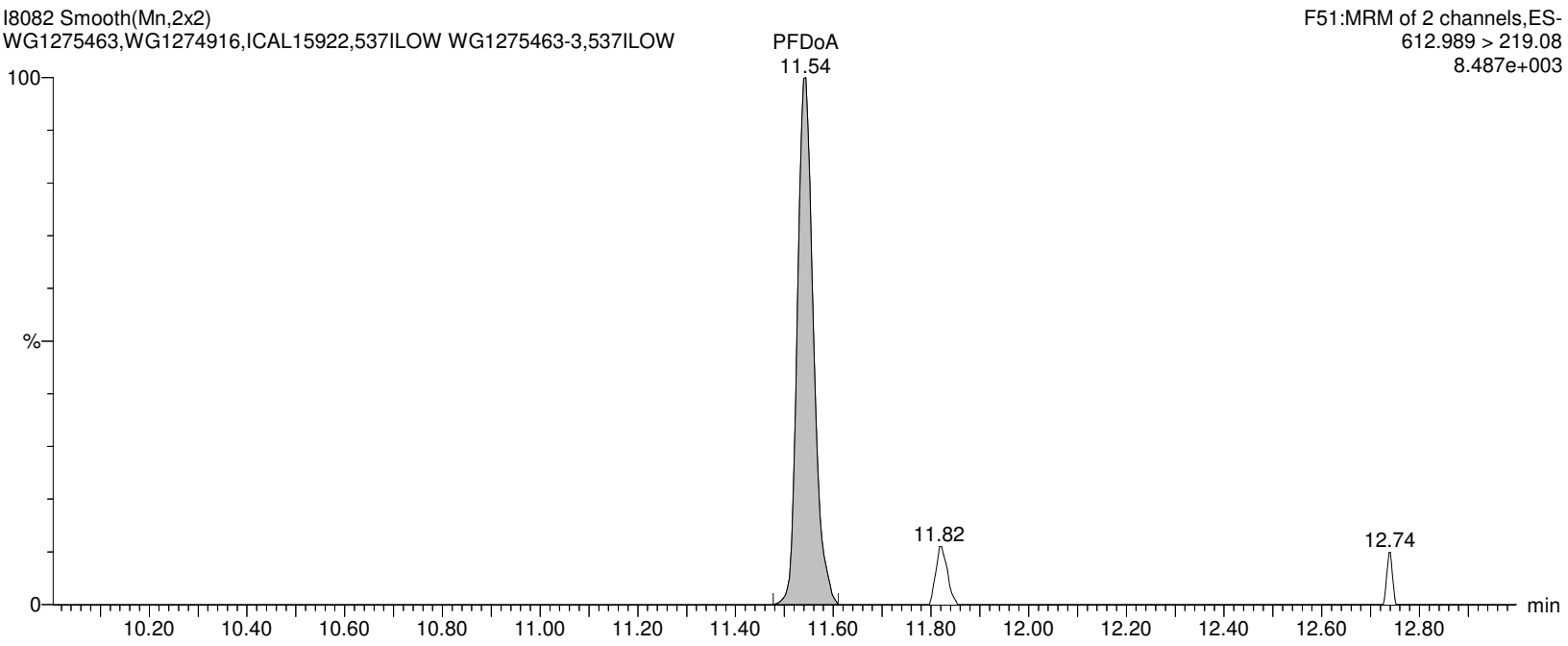
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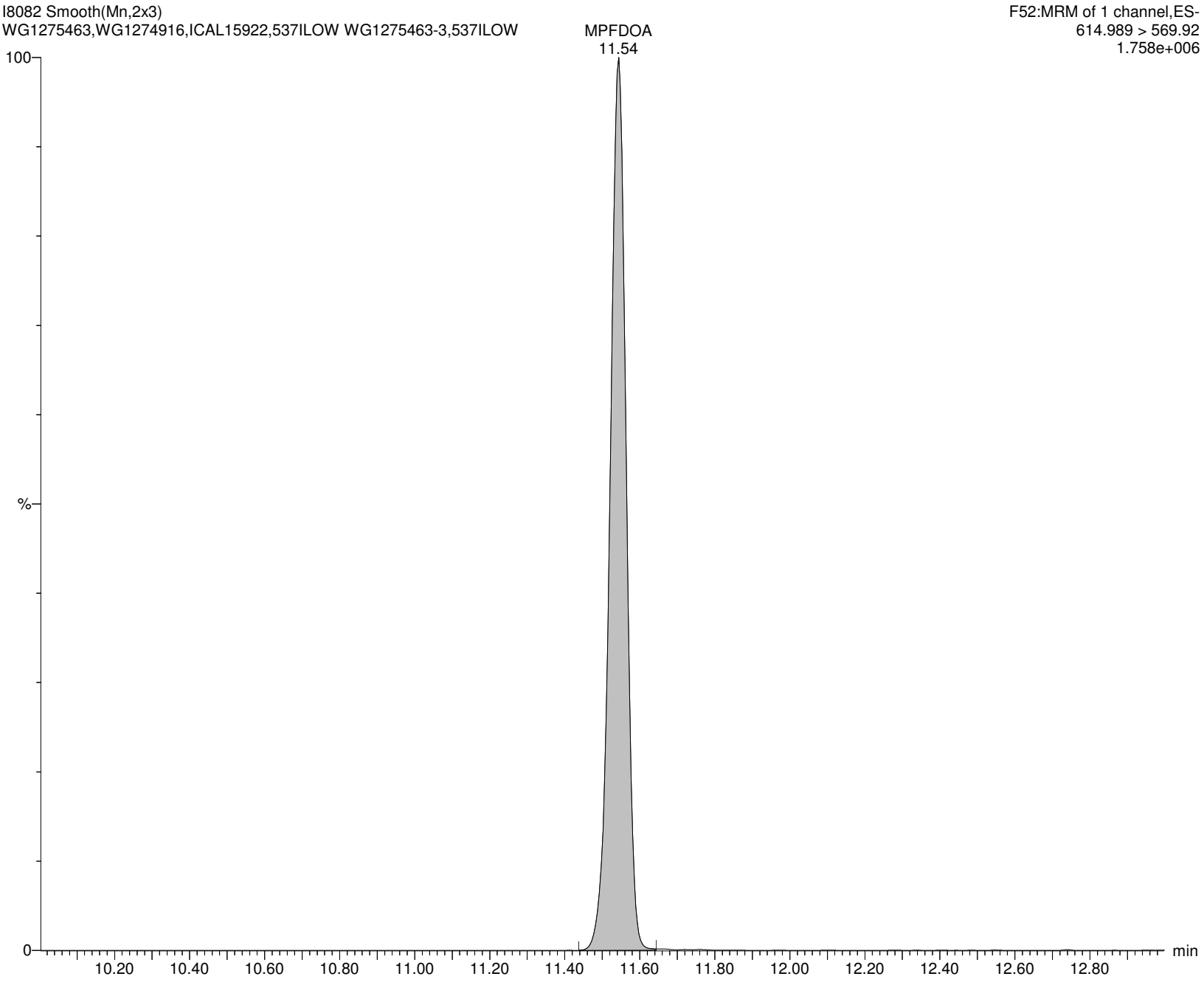


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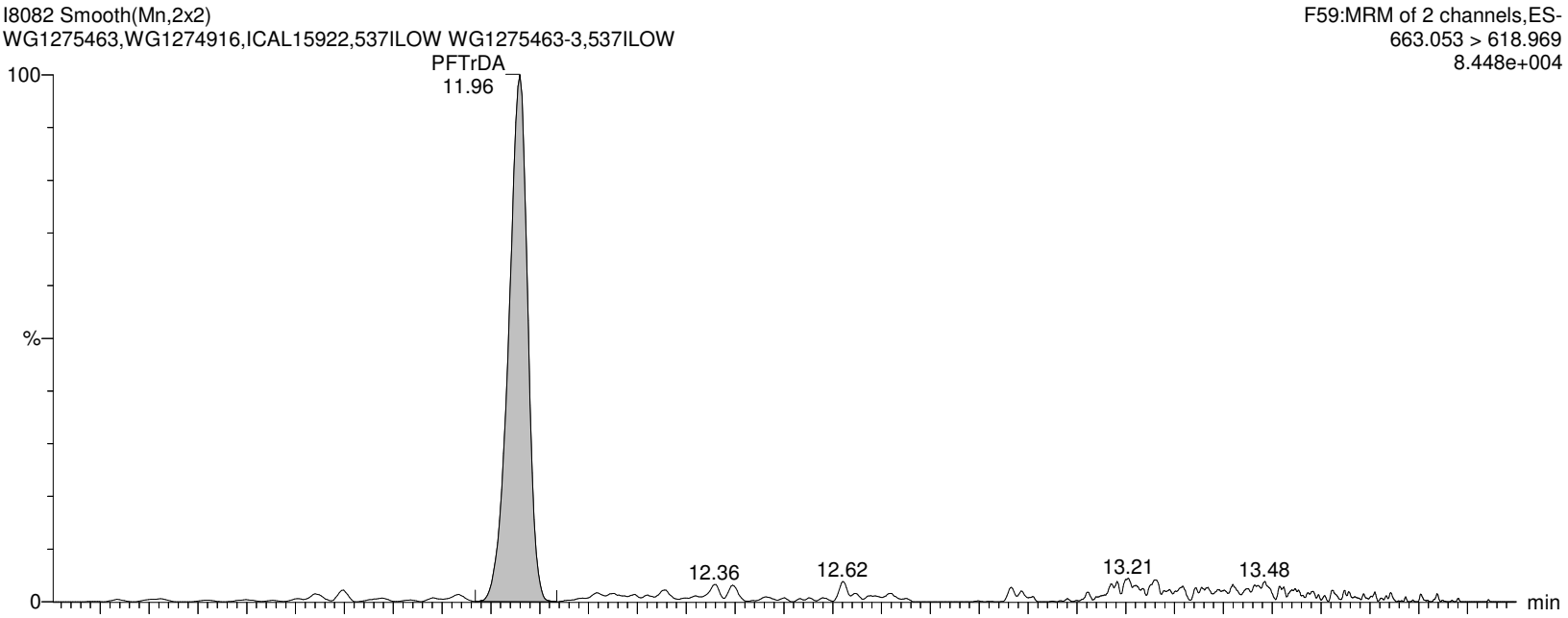


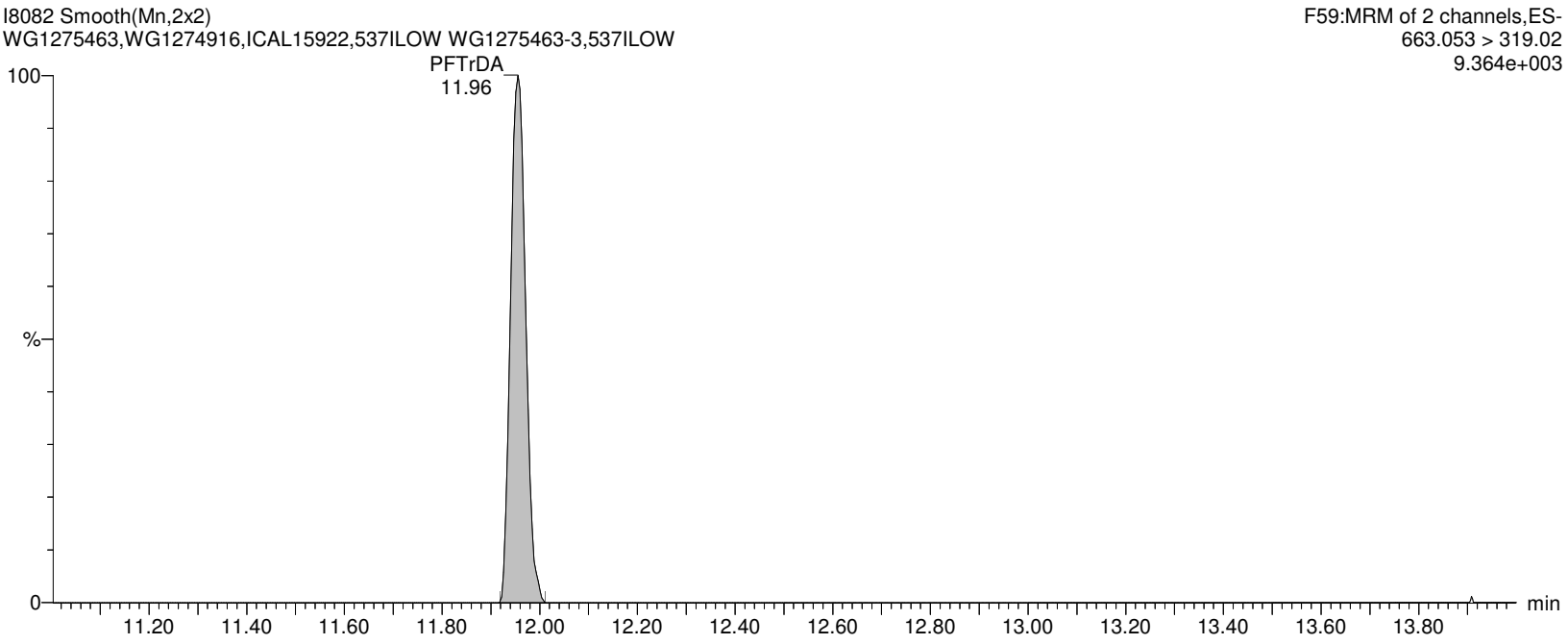
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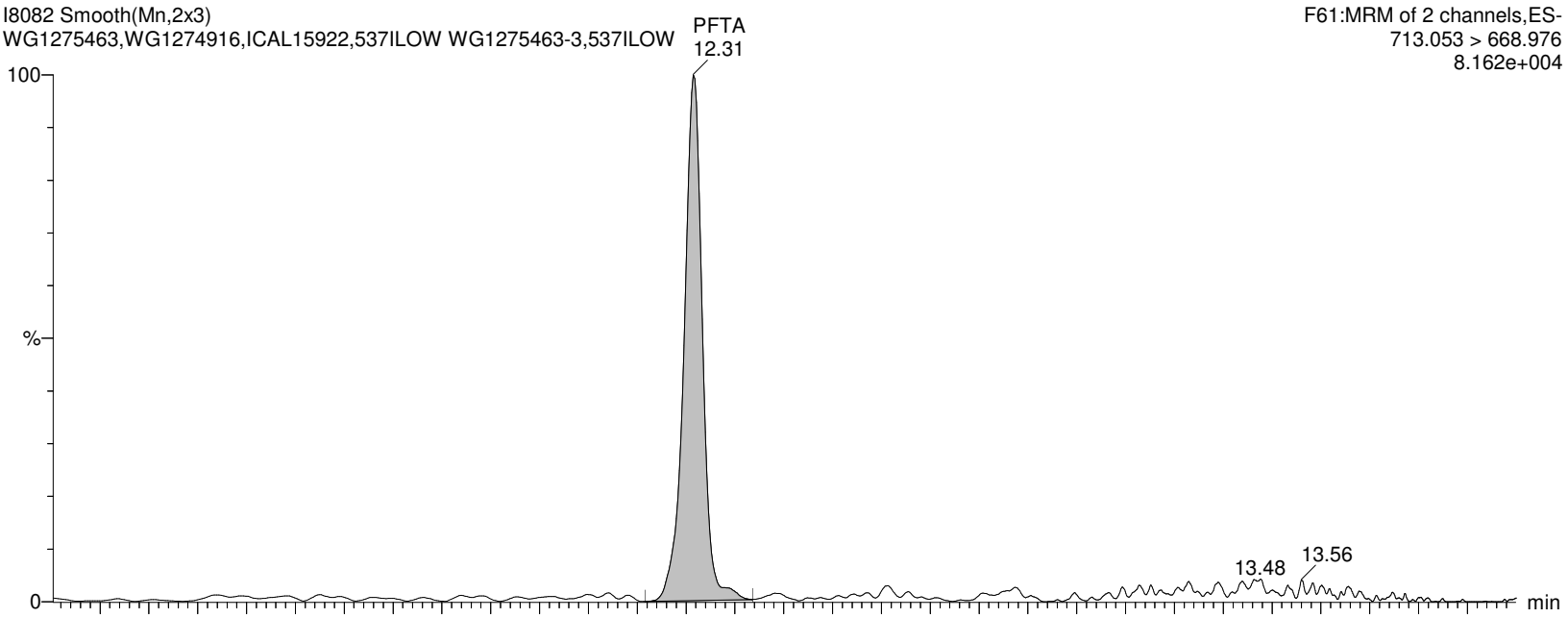


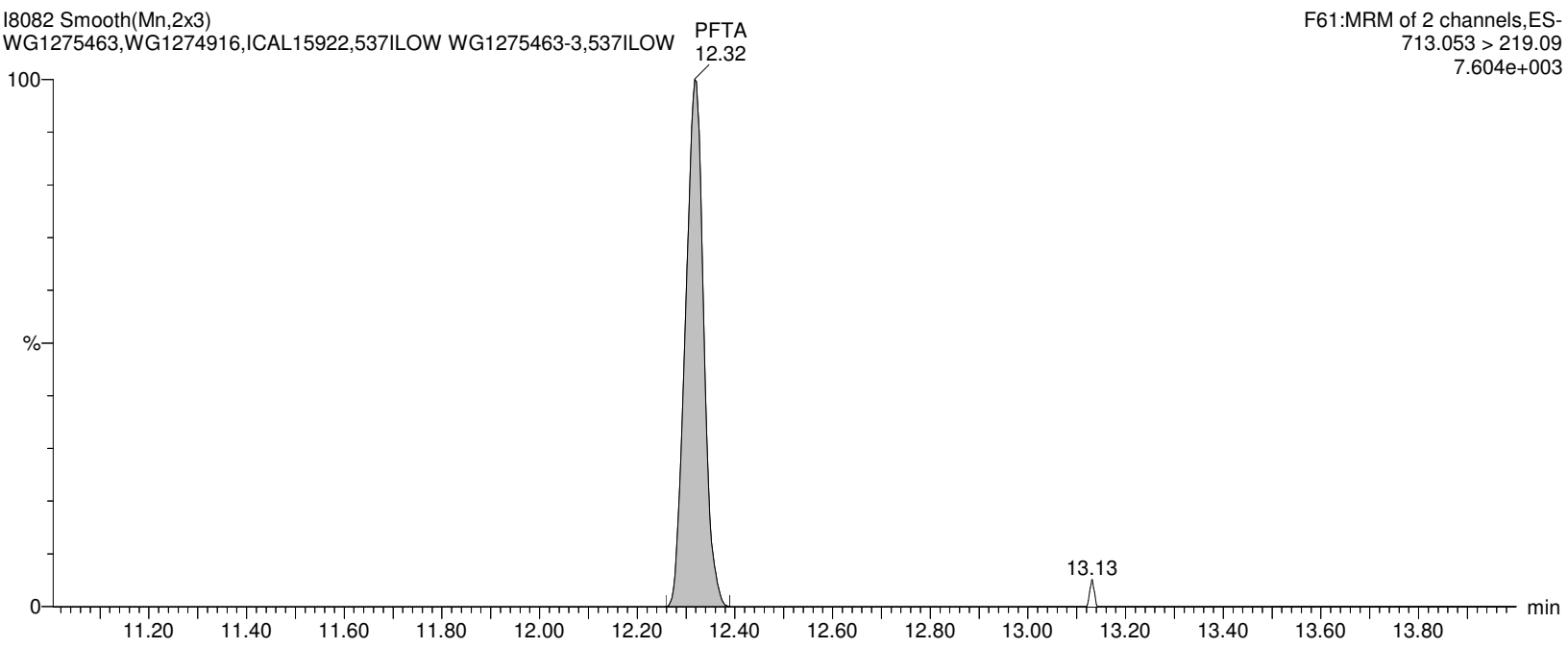
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PFTA



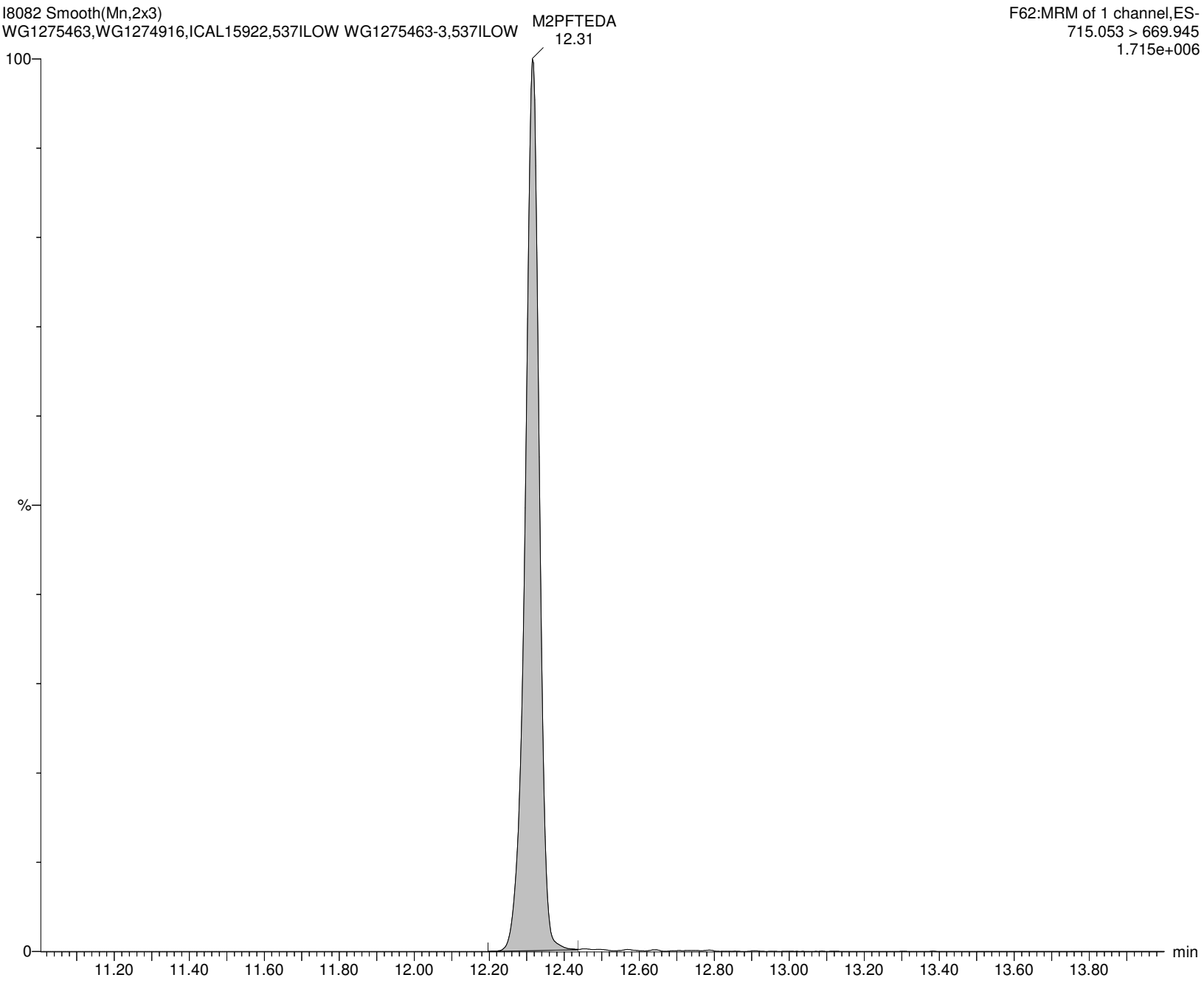


all concentration units in (ng/mL)

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M2PFTEDA



all concentration units in (ng/mL)

Semivolatiles Raw QC Data

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
Last Altered: Thursday, August 22, 2019 13:45:42 Eastern Daylight Time
Printed: Thursday, August 22, 2019 13:49:27 Eastern Daylight Time

Method: C:\MassLynx\Data\2019\190822_537ISO.PRO\MethDB\537ISO_Q_190702_DODRT.mdb 07 Aug 2019 10:42:09
Calibration: C:\MassLynx\Data\2019\190822_537ISO.PRO\CurveDB\190702_ISO_ICAL.cdb 02 Jul 2019 11:07:37

ID: WG1274916-1
Name: I8066
Date: 22-Aug-2019
Time: 11:44:01
Description: WG1275463,WG1274916,ICAL15922
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4		212.926 > 169.111			ND		na	
2	M3PFBA	INT STD	2.08	215.926 > 172.122	30322		7.840		na	78.4
3	MPFBA	INT STD	2.08	216.926 > 172.137	34501		10.146		na	101.5
4	PFPeA	2706-90-3		262.926 > 219.002			ND		na	
5	M5PFPEA	INT STD	4.97	267.989 > 223.081	57645		11.977		na	119.8
6	PFBS	375-73-5		298.926 > 79.923			ND		YES	
7	M3PFBS	INT STD	5.64	301.989 > 80.254	9333		8.500		na	85.0
8	4:2FTS	757124-72-4		326.926 > 306.957			ND		YES	
9	M2-4:2FTS	INT STD	6.82	329.117 > 309.079	2773		4.215		na	42.2
10	PFHxA	307-24-4	6.89	312.989 > 269.028	753		0.108		YES	
11	M5PFHxA	INT STD	6.89	317.989 > 273.045	70827		9.542		na	95.4
12	PFPeS	2706-91-4		348.926 > 80.251			ND		YES	
13	PFHpA	375-85-9		362.926 > 319.014			ND		YES	
14	M4PFHpA	INT STD	8.19	366.926 > 321.979	89145		9.427		na	94.3
15	br-PFHxS	355-46-4		398.926 > 80.295			ND		YES	
16	L-PFHxS	355-46-4		398.926 > 80.295			ND		YES	
17	PFHxS	355-46-4		398.926 > 80.295	0		ND		na	
18	M3PFHxS	INT STD	8.35	401.926 > 80.317	6229		9.153		na	91.5
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1		412.989 > 368.9			ND	0.00	YES	
21	M2PFOA	INT STD	9.14	415.032 > 369.968	88041		9.656		na	96.6
22	PFOA	335-67-1		412.989 > 368.9	0		ND		na	
23	M8PFOA	INT STD	9.14	420.989 > 375.979	88413		10.107		na	101.1
24	6:2FTS	27619-97-2		426.989 > 406.921			ND		YES	
25	M2-6:2FTS	INT STD	9.10	428.989 > 408.917	2289		3.861		na	38.6
26	PFHpS	375-92-8		448.926 > 80.257			ND		YES	
27	PFNA	375-95-1		462.989 > 418.931			ND		YES	
28	M9PFNA	INT STD	9.90	472.053 > 426.947	90192		11.134		na	111.3
29	br-PFOS	1763-23-1		498.989 > 80.294			ND		YES	
30	L-PFOS	1763-23-1		498.989 > 80.294			ND		YES	
31	PFOS	1763-23-1		498.989 > 80.294	0		ND		na	
32	M4PFOS	INT STD	9.95	503.032 > 80.306	8249		11.092		na	110.9
33	M8PFOS	INT STD	9.95	507.053 > 80.294	9145		10.294		na	102.9
34	PFDA	335-76-2		513.053 > 468.906			ND		YES	
35	M2PFDA	INT STD	10.53	515.053 > 469.934	75011		10.487		na	104.9
36	M6PFDA	INT STD	10.53	519.053 > 473.931	82337		9.817		na	98.2
37	8:2FTS	39108-34-4		526.926 > 506.818			ND		na	
38	M2-8:2FTS	INT STD	10.52	529.053 > 508.945	1526		4.689		na	46.9
39	PFNS	68259-12-1		548.989 > 80.249			ND		YES	

all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
Last Altered: Thursday, August 22, 2019 13:45:42 Eastern Daylight Time
Printed: Thursday, August 22, 2019 13:49:27 Eastern Daylight Time

ID: WG1274916-1
Name: I8066
Date: 22-Aug-2019
Time: 11:44:01
Description: WG1275463,WG1274916,ICAL15922
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.90	573.096 > 418.987	6745		8.104		na	81.0
41	NMeFOSAA	2355-31-9		570.053 > 418.917			ND		YES	
42	PFUnA	2058-94-8		562.989 > 518.903			ND		YES	
43	M7-PFUDA	INT STD	11.07	570.053 > 524.923	70492		9.505		na	95.0
44	PFDS	335-77-3		598.926 > 80.314			ND		YES	
45	FOSA	754-91-6		497.989 > 78.245			ND		YES	
46	M8FOSA	INT STD	10.93	506.053 > 78.286	8789		3.521		na	35.2
47	d5-NEtFOSAA	INT STD	11.19	589.117 > 418.929	5798		7.688		na	76.9
48	NEtFOSAA	2991-50-6		583.989 > 418.927			ND		YES	
49	PFDoA	307-55-1		612.989 > 568.967			ND		YES	
50	MPFDOA	INT STD	11.54	614.989 > 569.92	71009		8.647		na	86.5
51	PFTrDA	72629-94-8		663.053 > 618.969			ND		YES	
52	PFTA	376-06-7		713.053 > 668.976			ND		YES	
53	M2PFTEDA	INT STD	12.31	715.053 > 669.945	60079		8.659		na	86.6

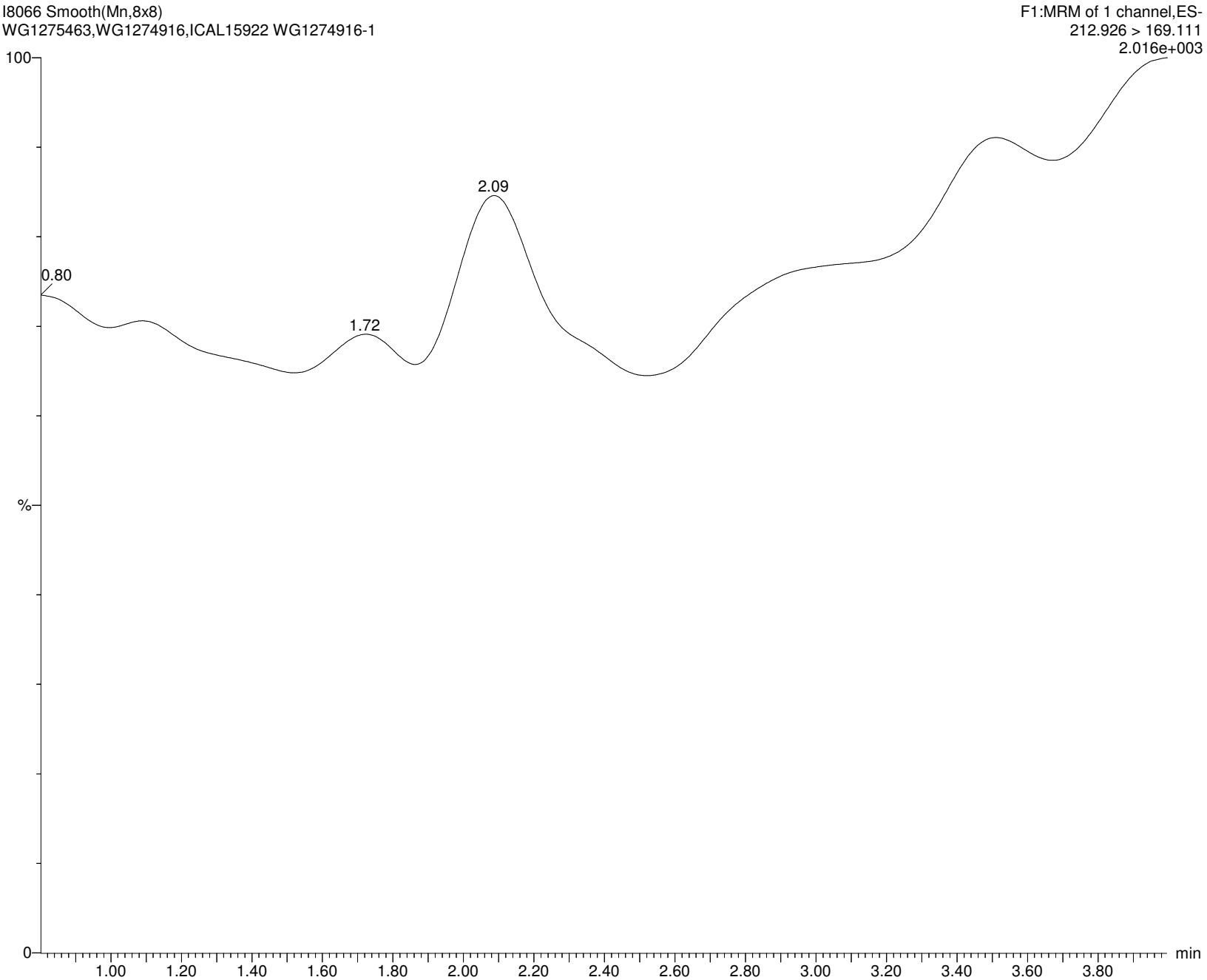
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MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

PFBA

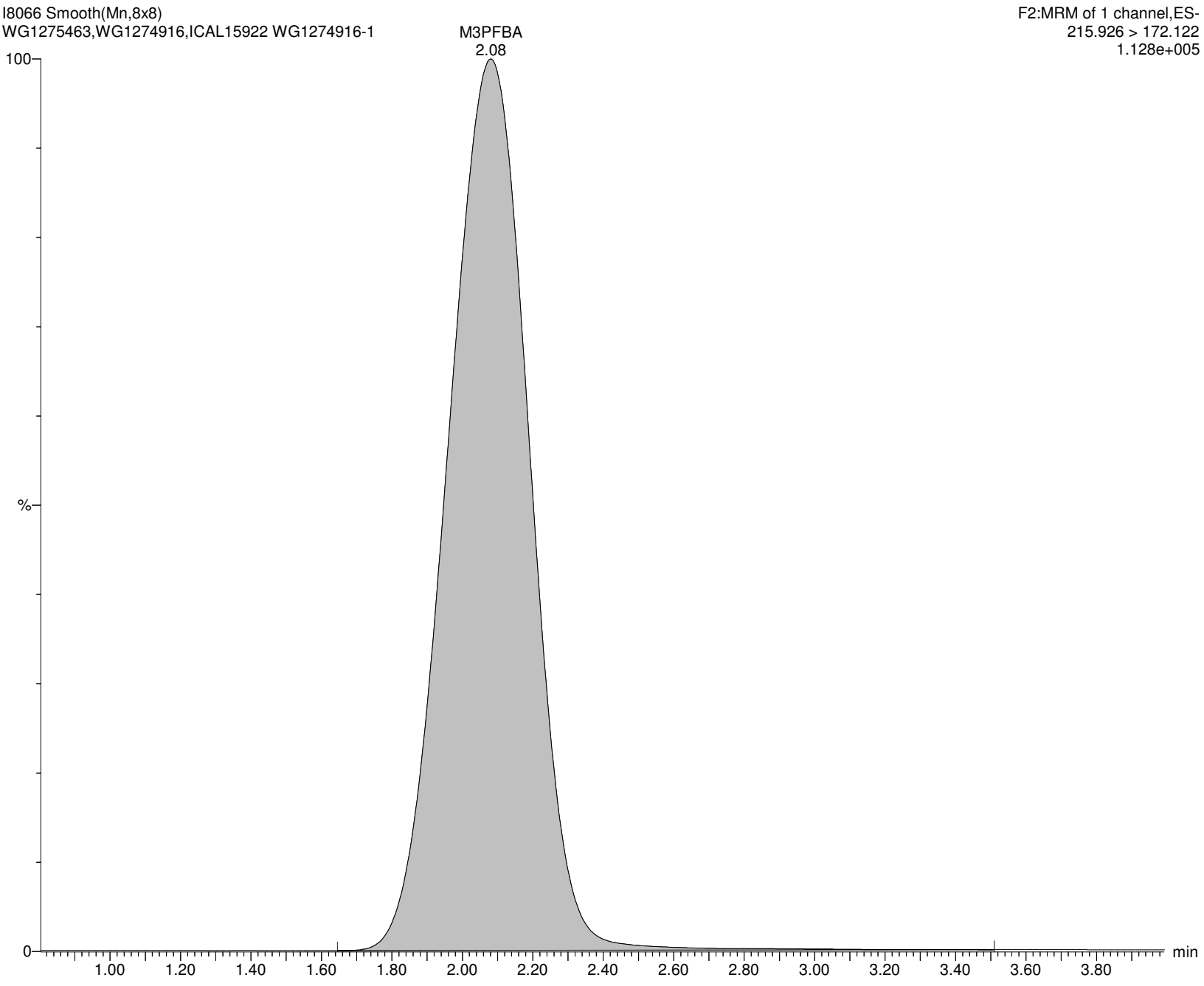


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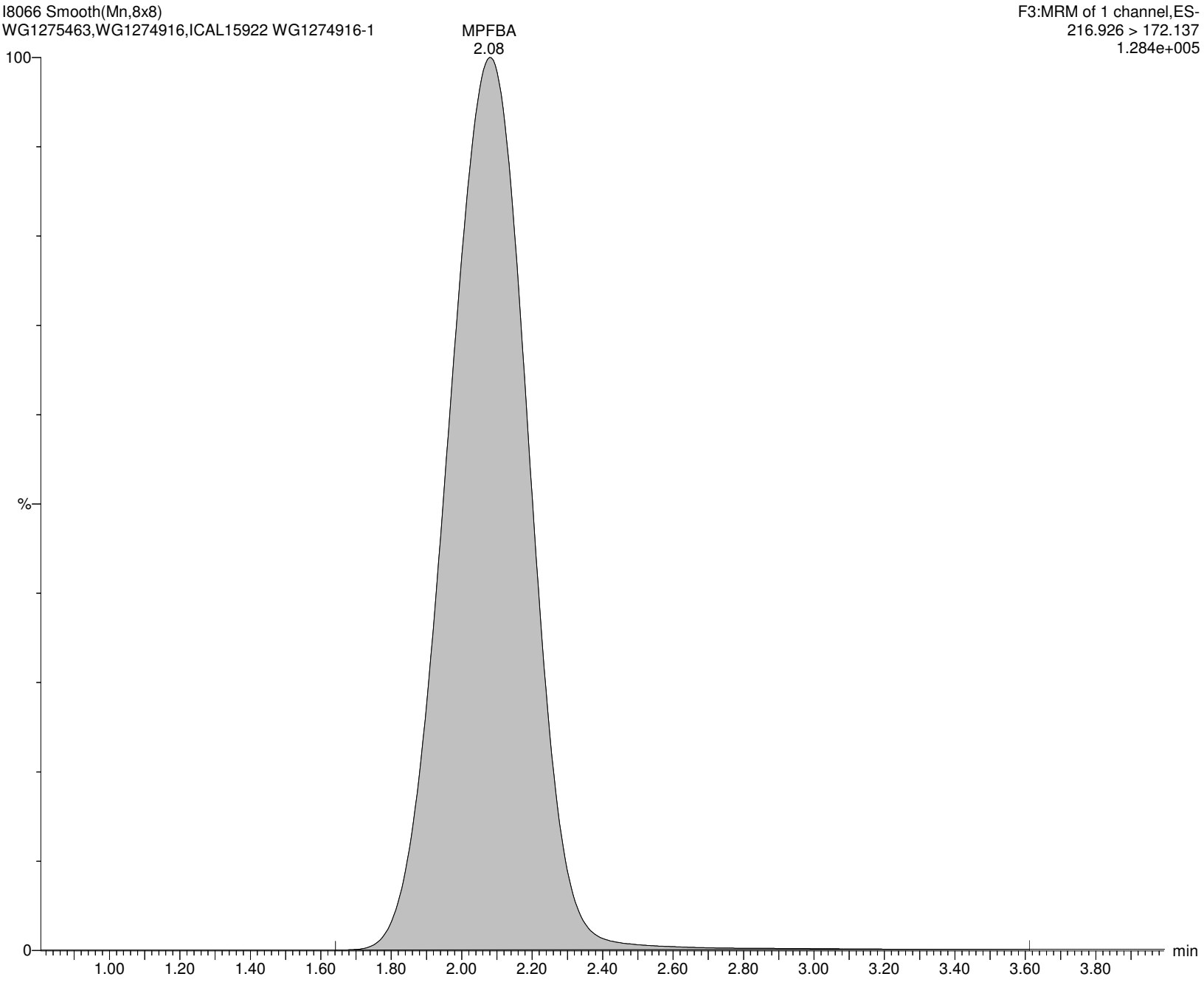


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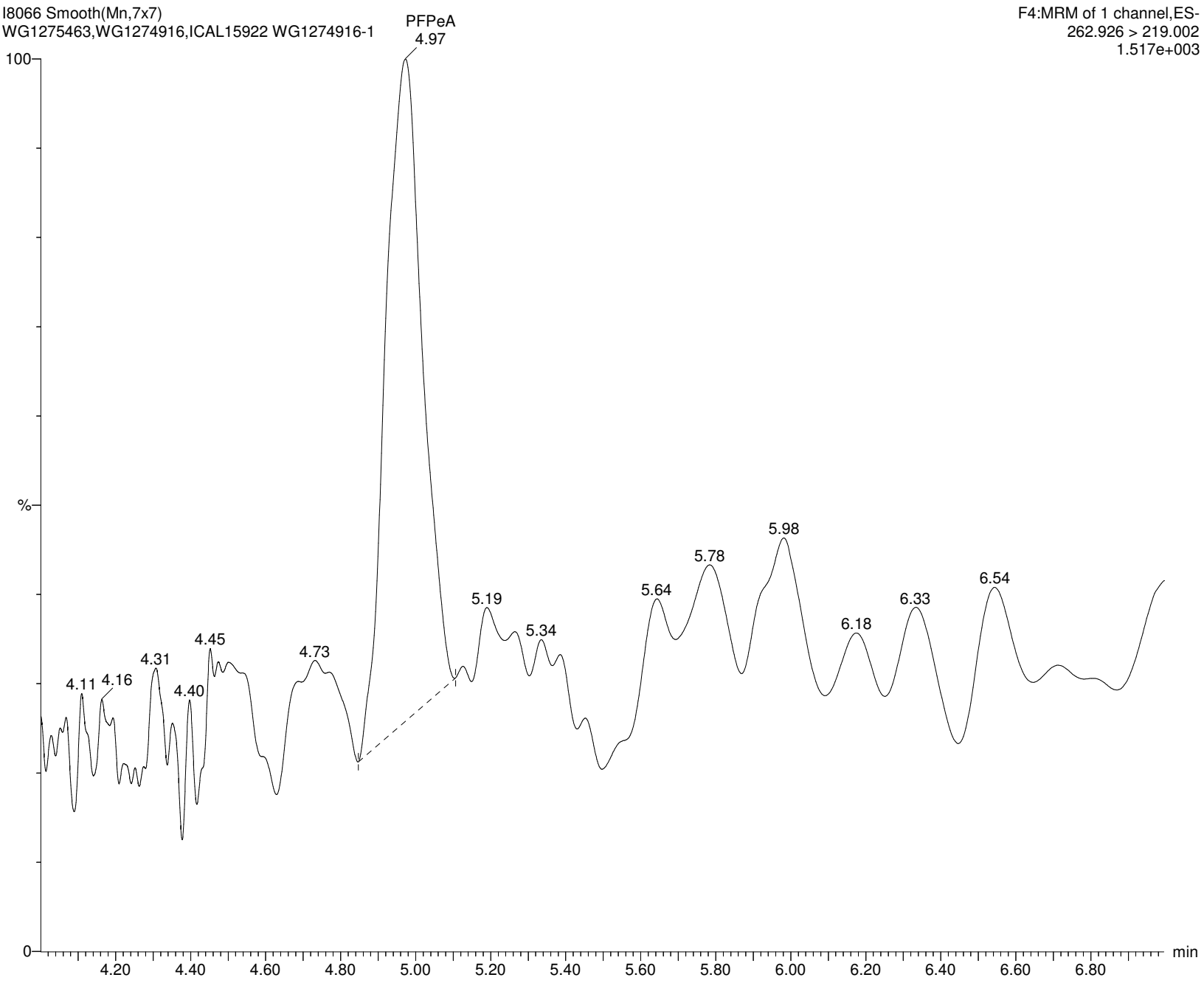


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MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

PFPeA

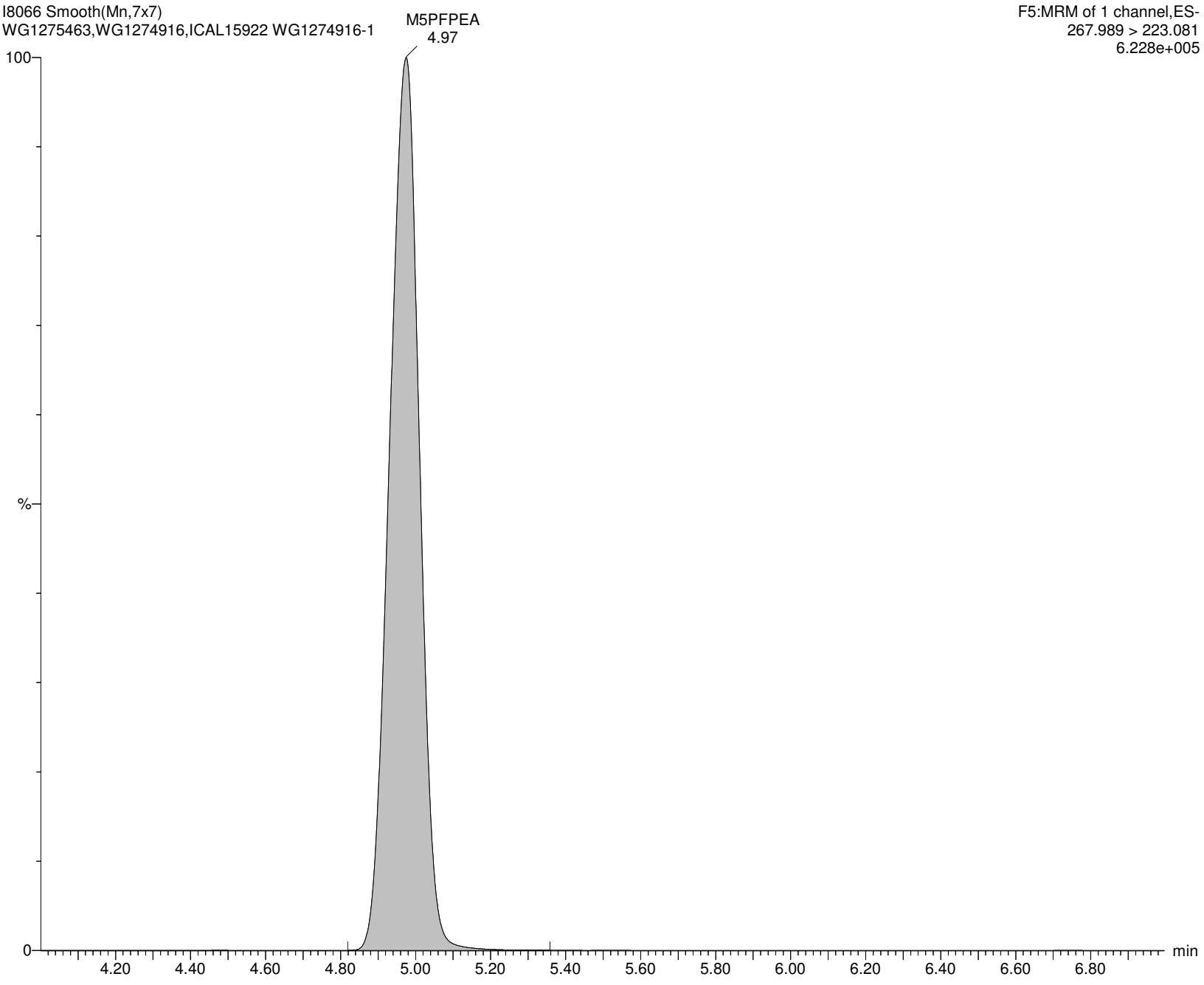


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
Last Altered: Thursday, August 22, 2019 13:45:42 Eastern Daylight Time
Printed: Thursday, August 22, 2019 13:49:27 Eastern Daylight Time

Name: I8066
ID: WG1274916-1
Date: 22-Aug-2019
Time: 11:44:01
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:B,6
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
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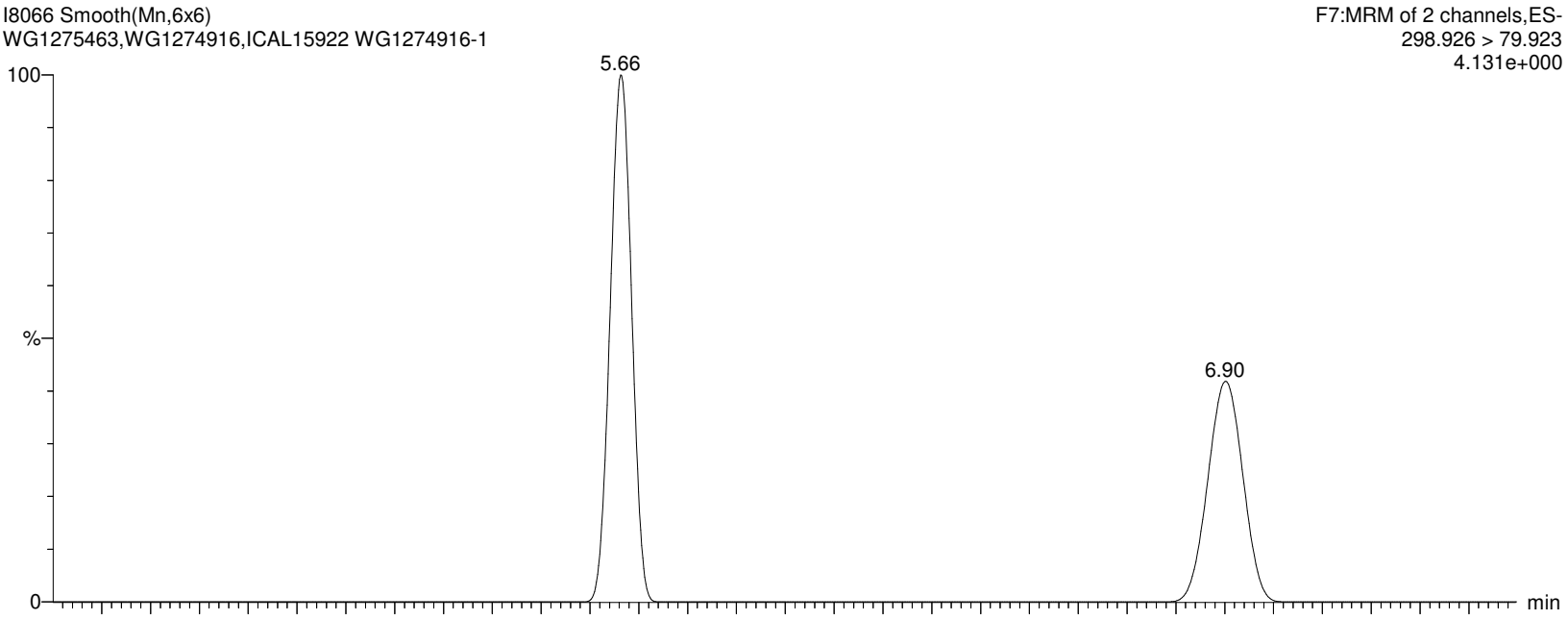


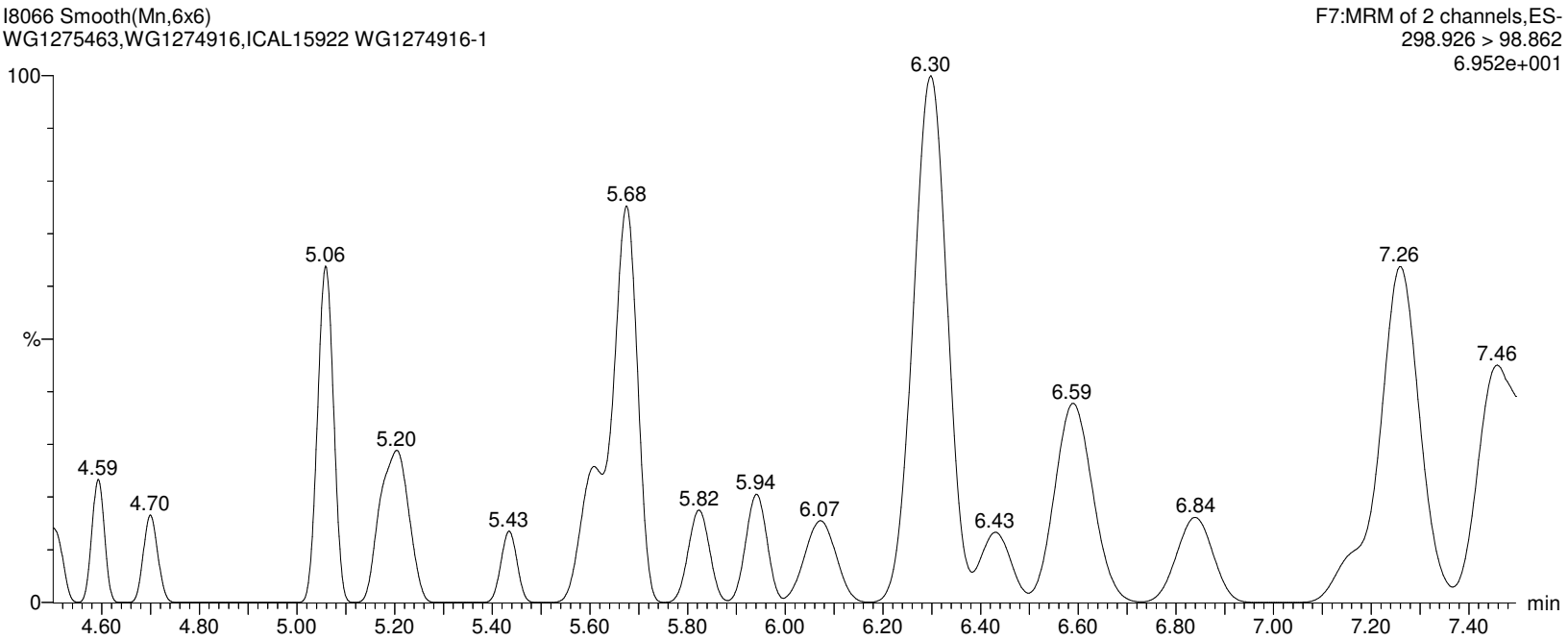
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Vial: 1:B,6
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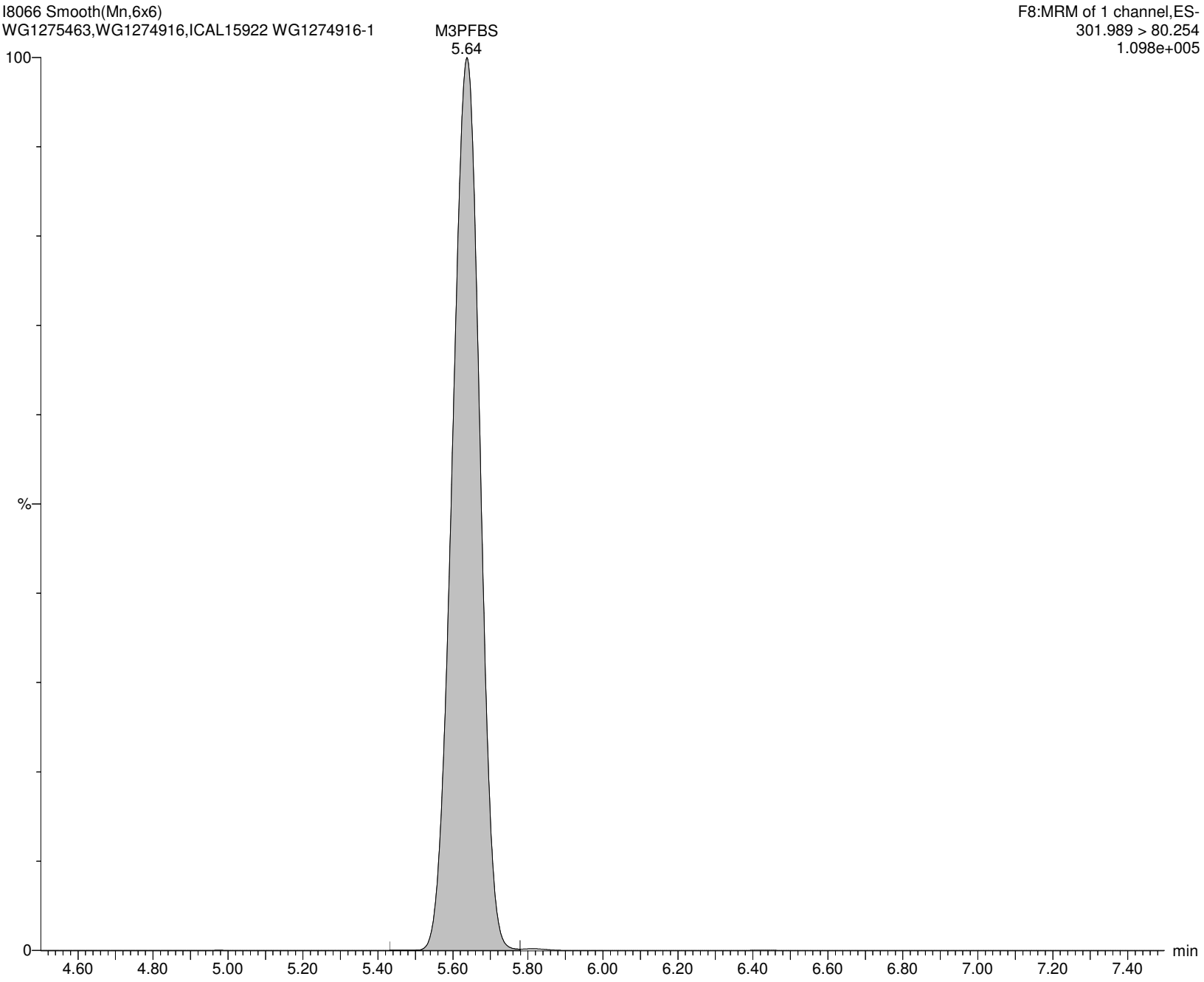


all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
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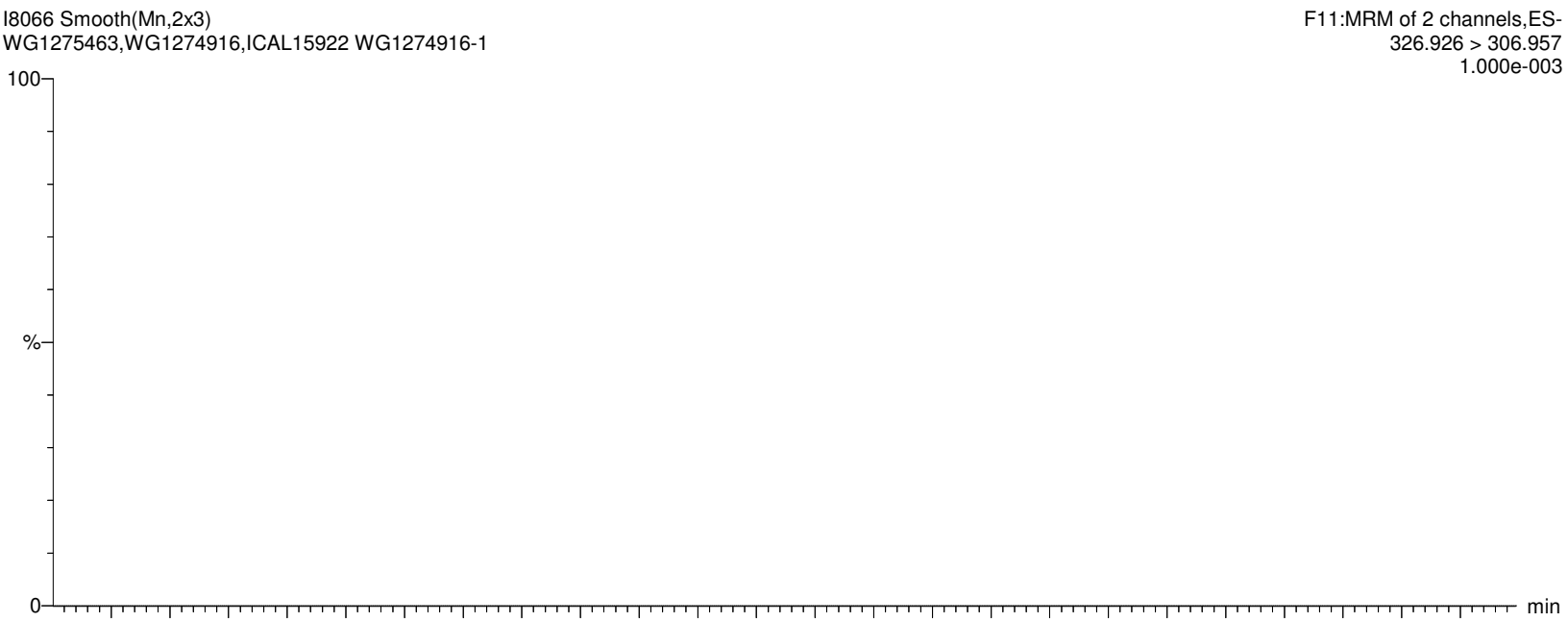


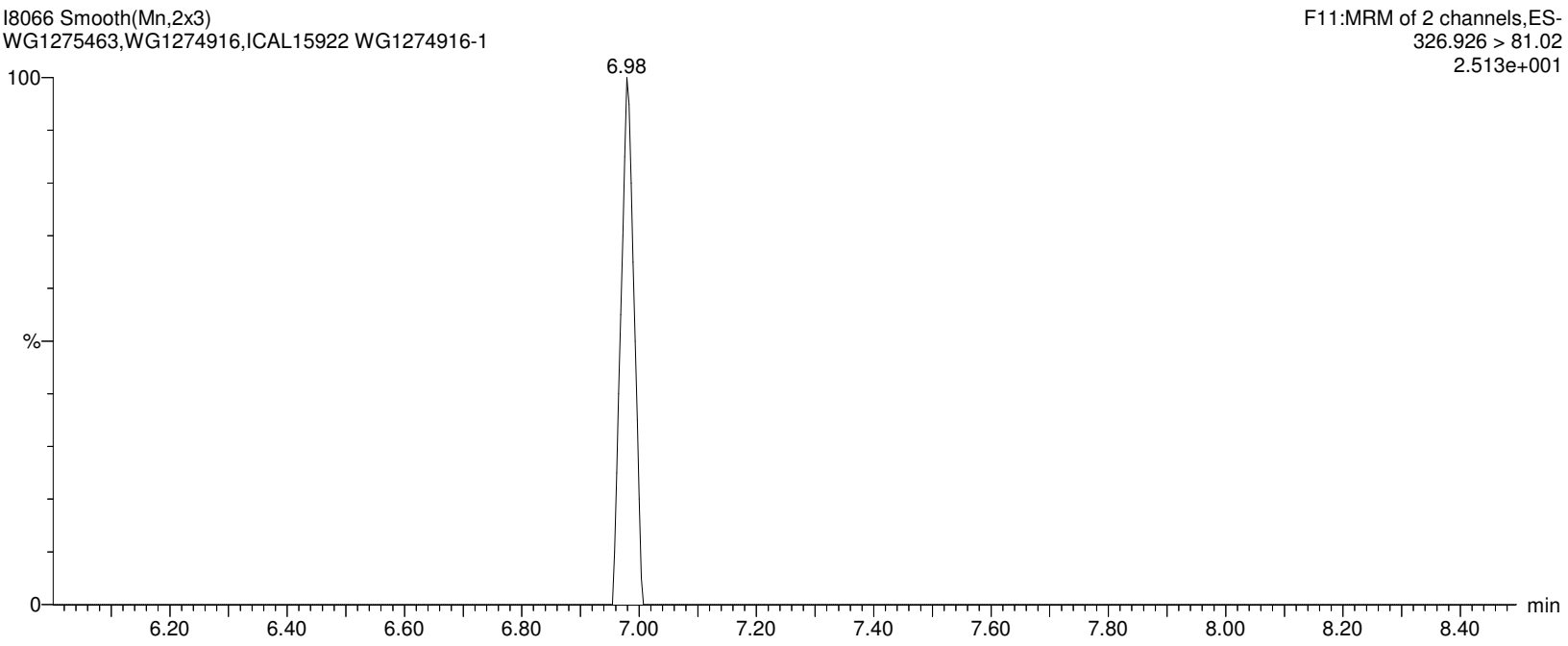
all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
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4:2FTS



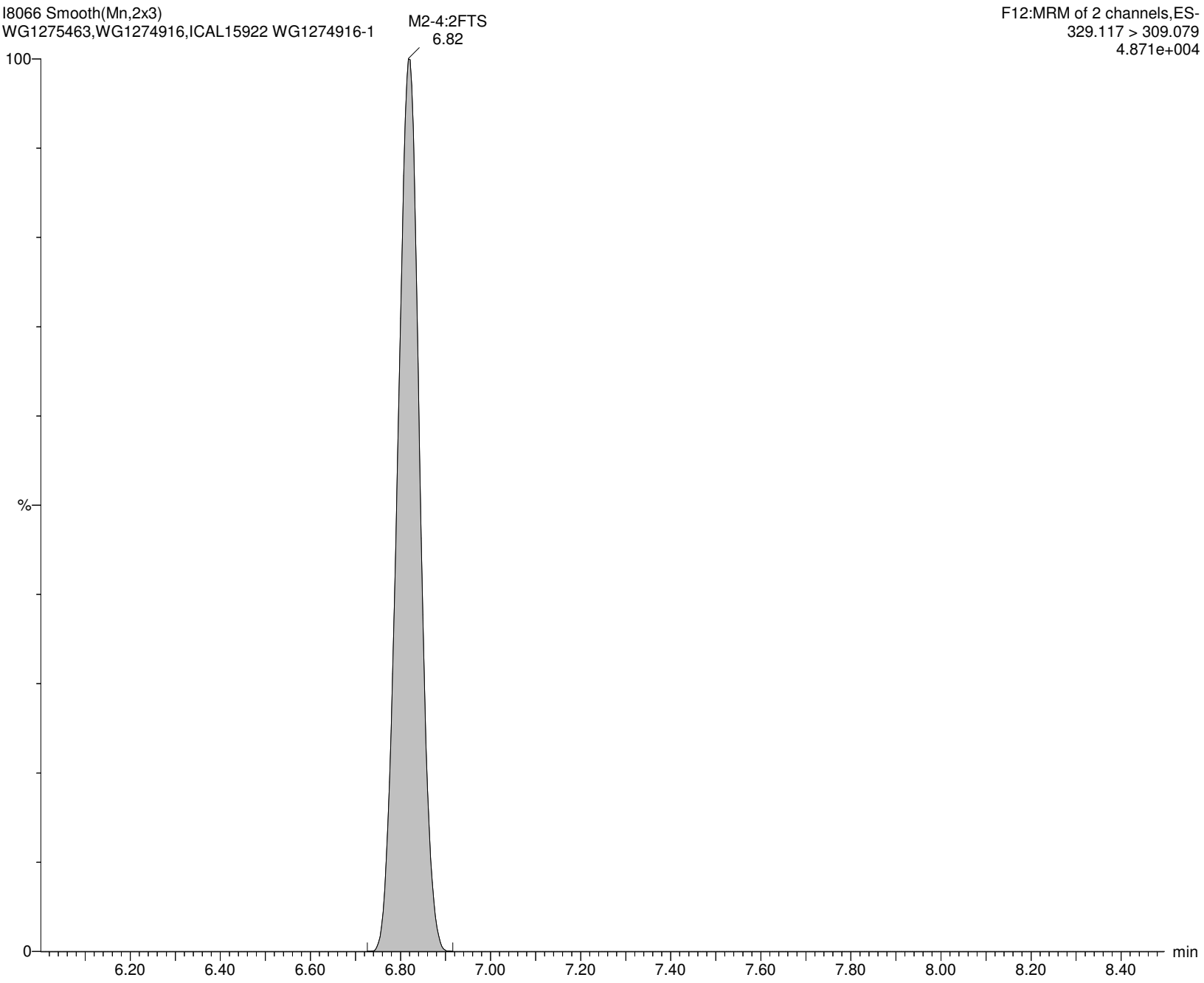


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
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Vial: 1:B,6
Instrument: XEVO-TQSmicro#QEB0050
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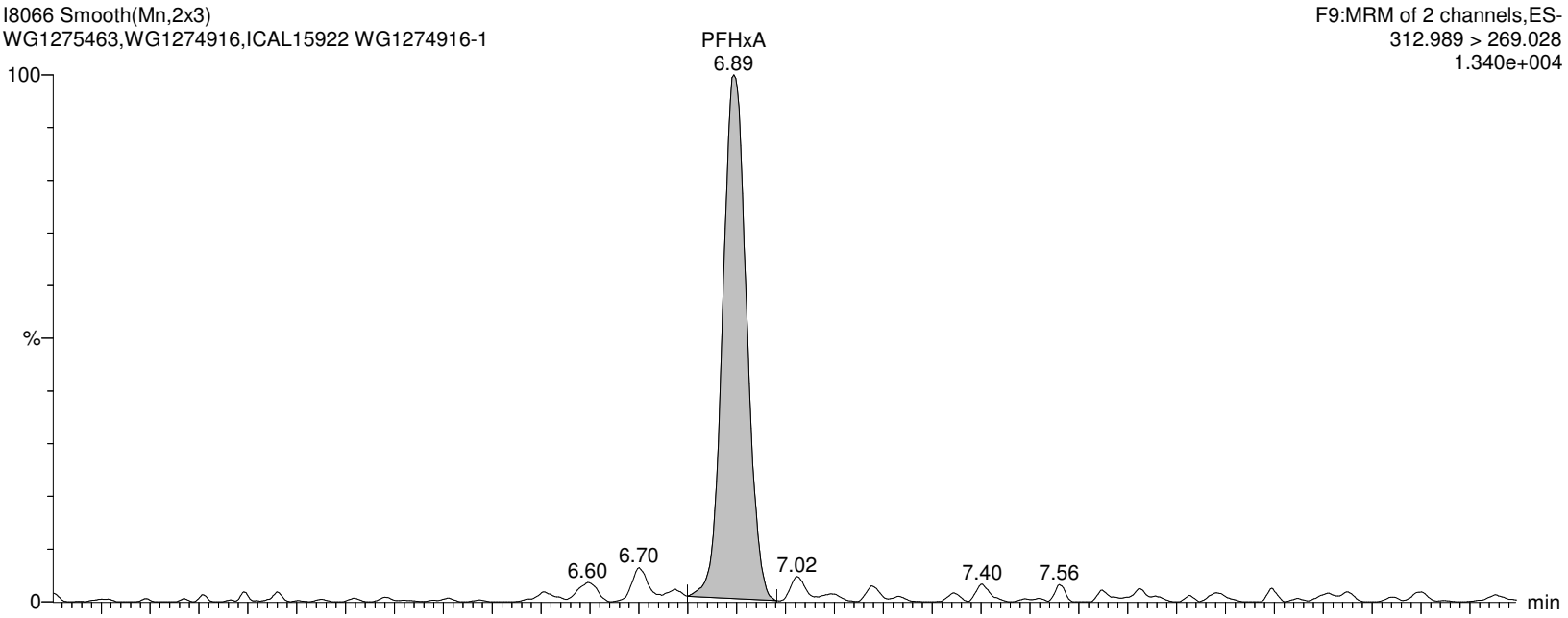


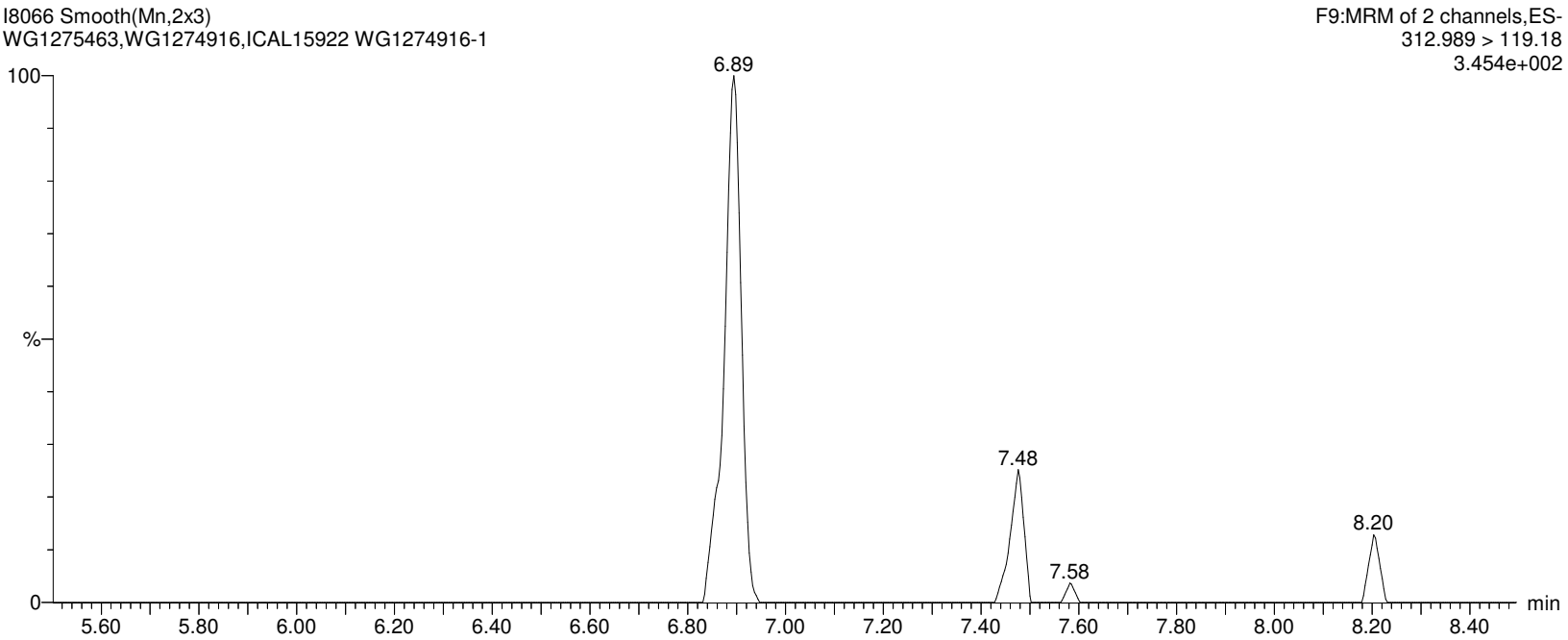
all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
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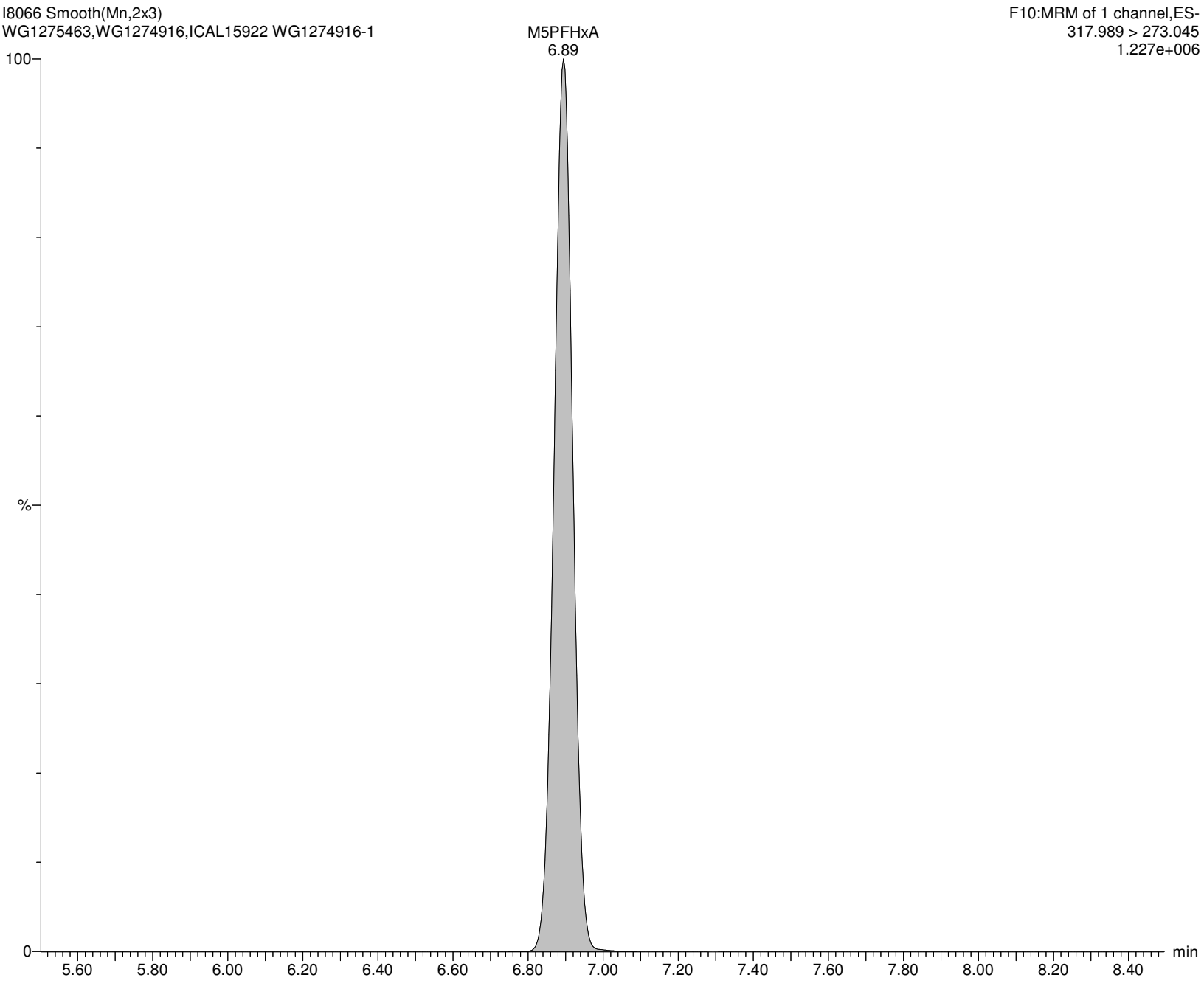


all concentration units in (ng/mL)

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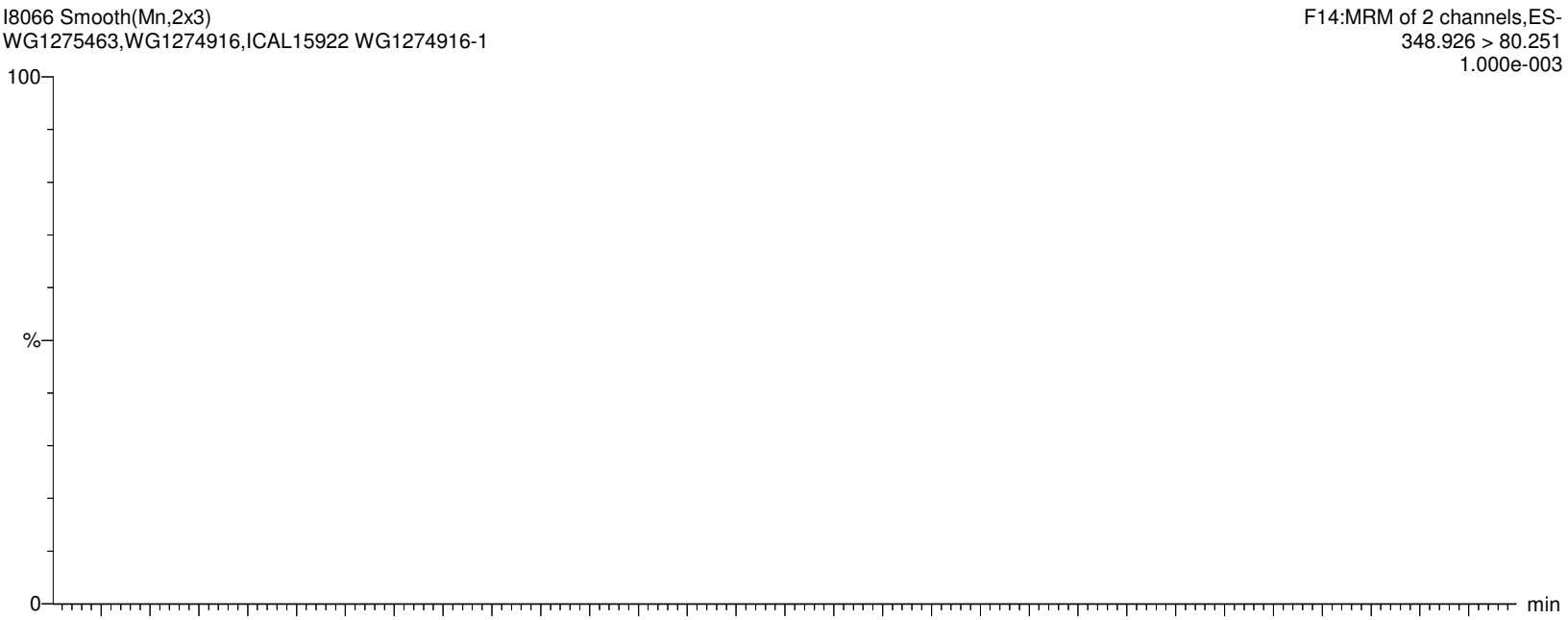


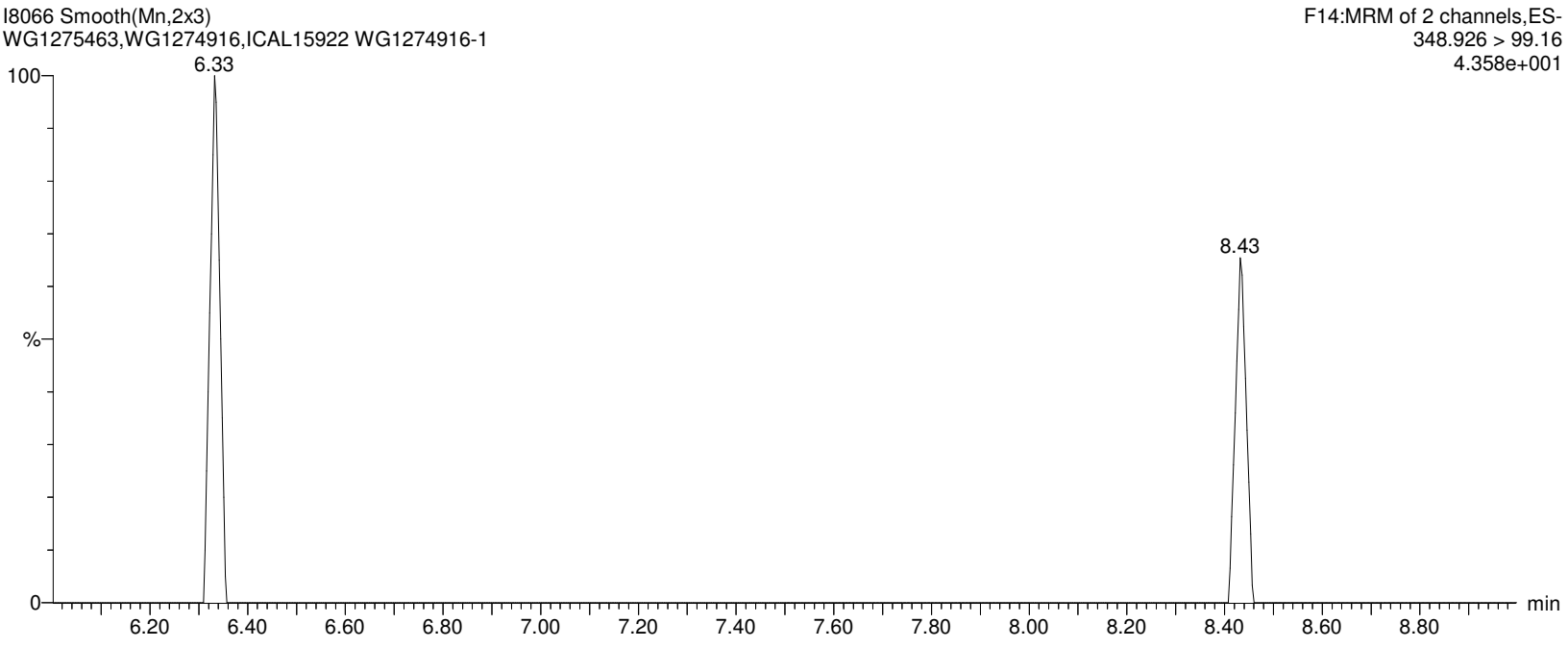
all concentration units in (ng/mL)

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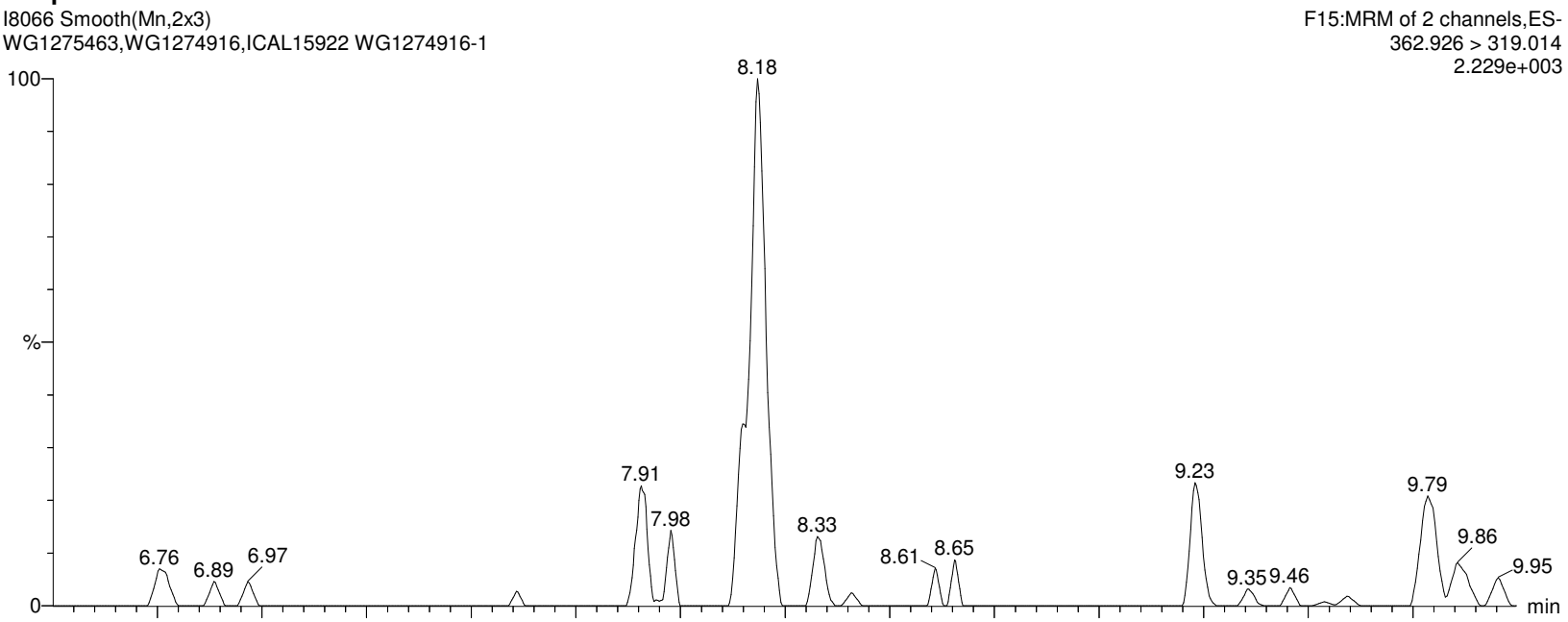


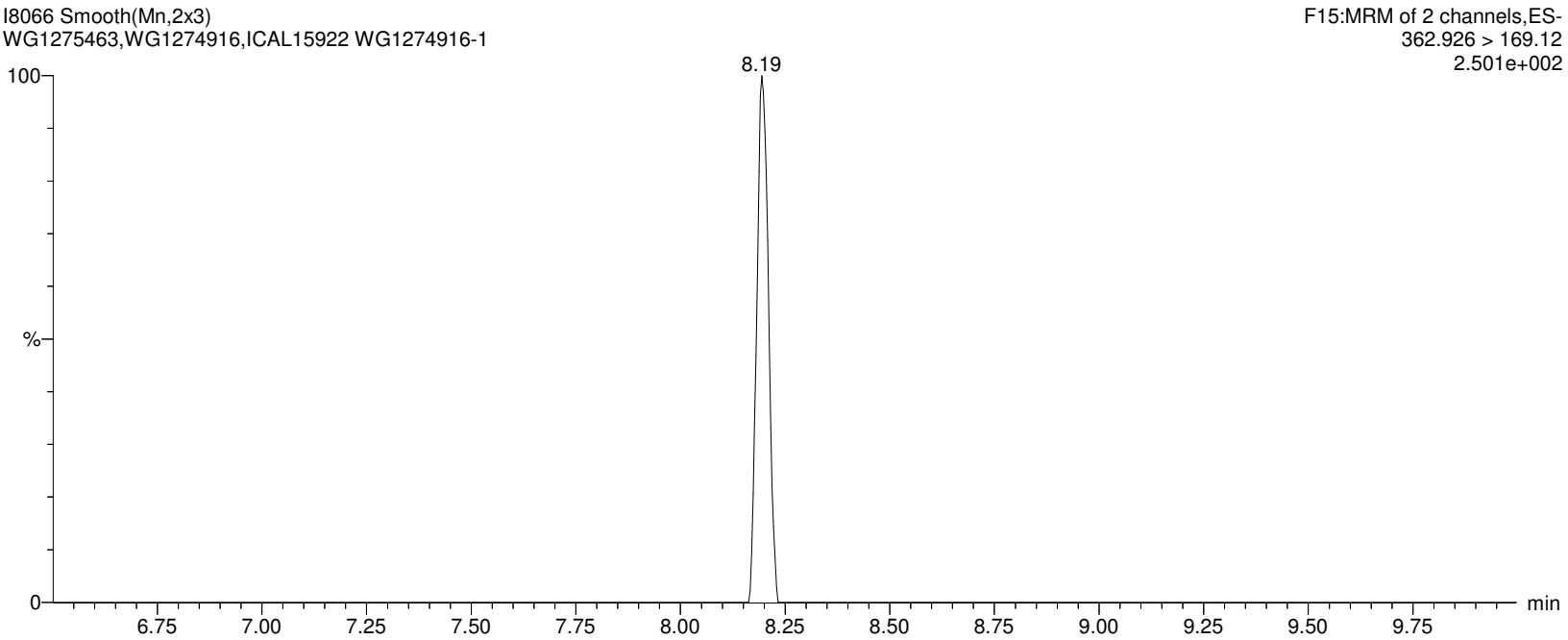
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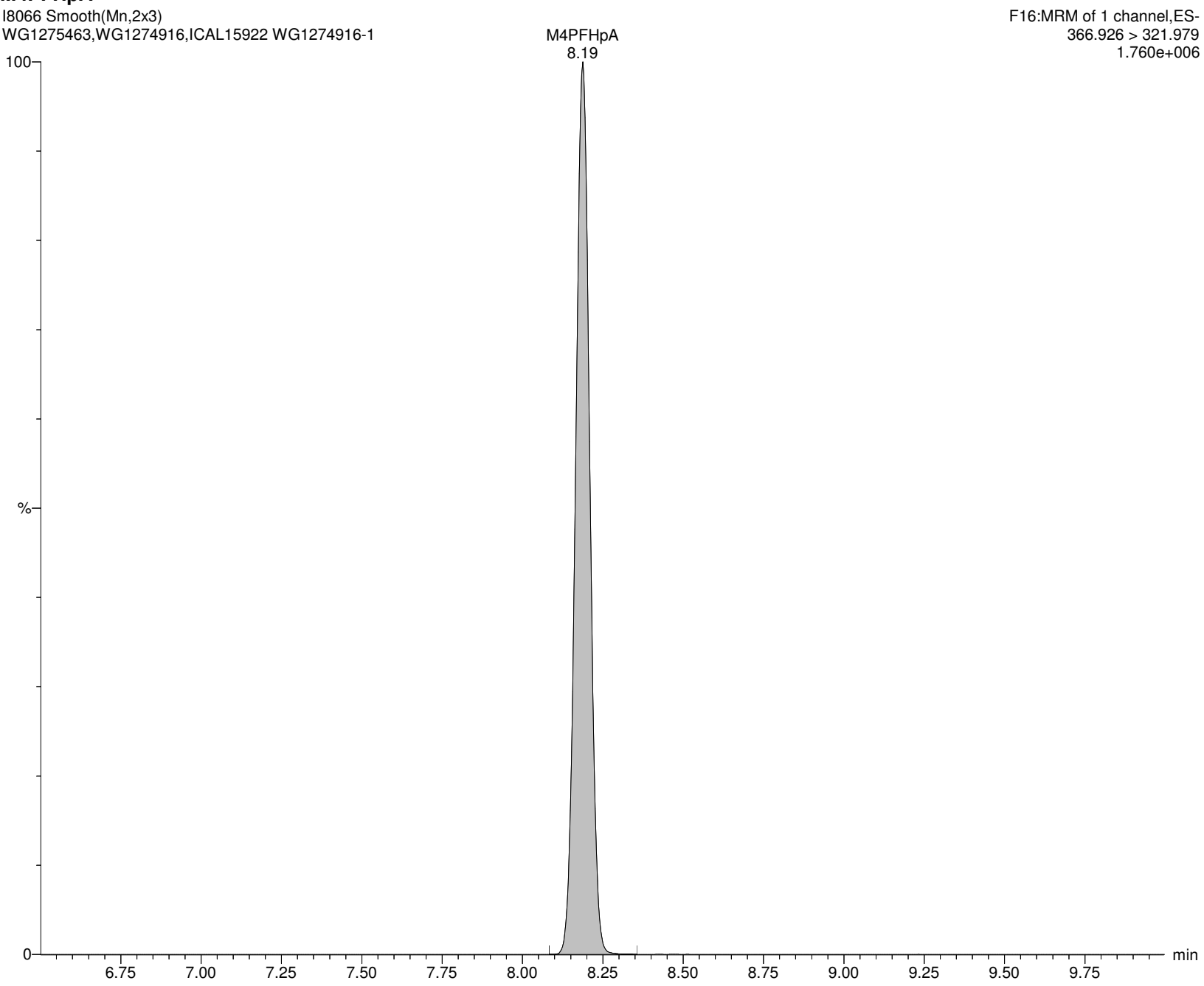


all concentration units in (ng/mL)

Alpha Analytical Inc.
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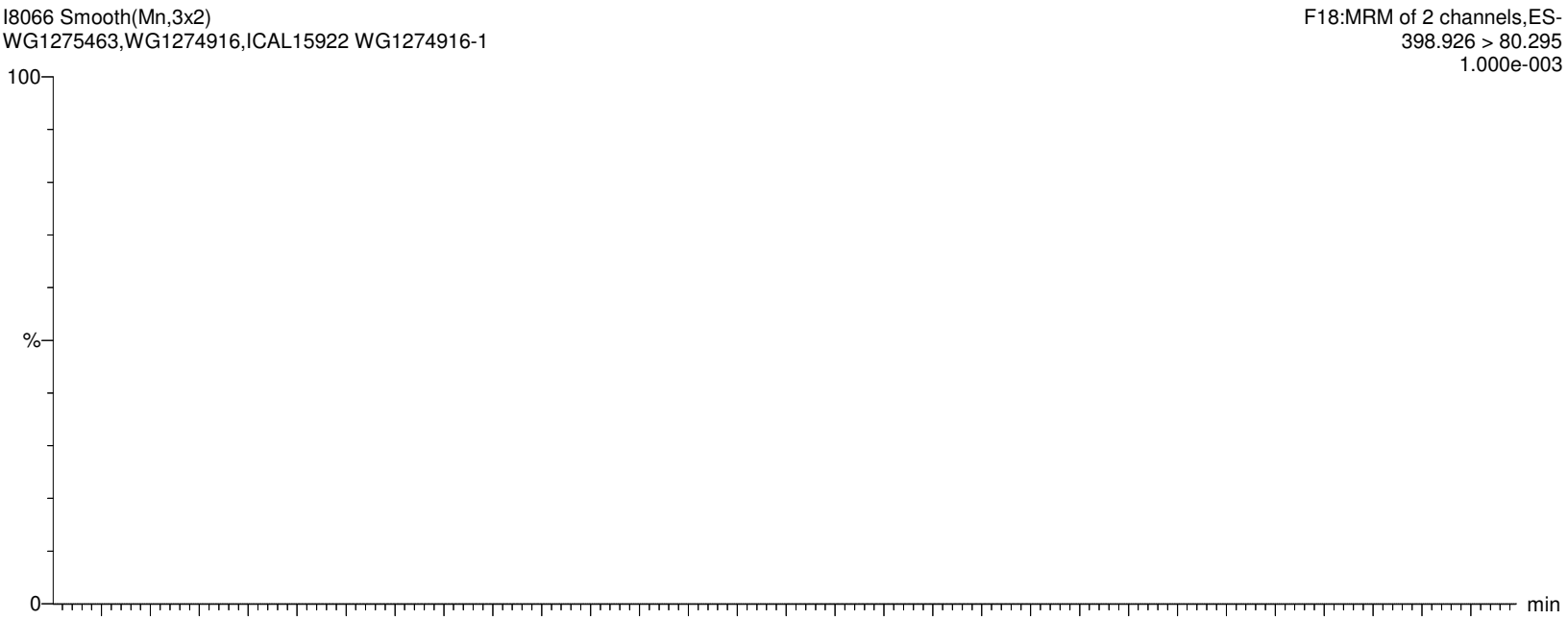


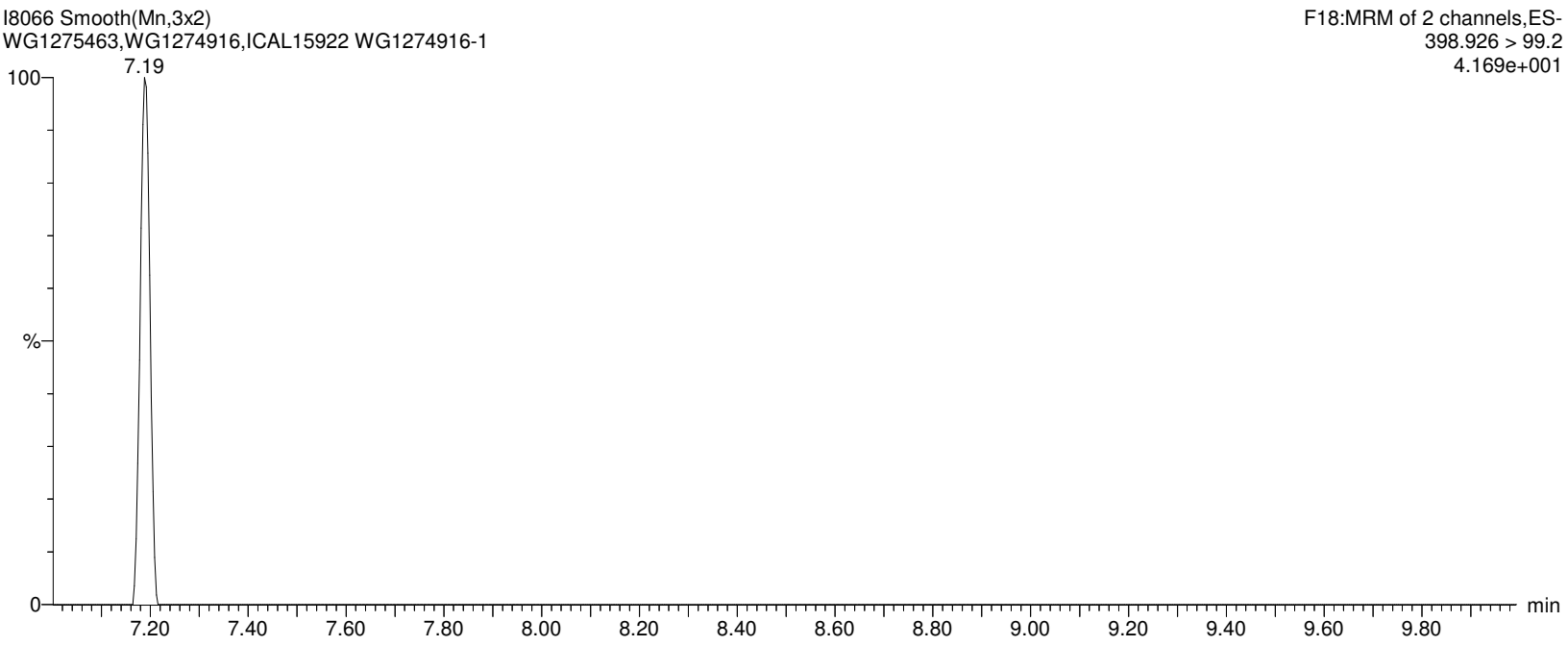
all concentration units in (ng/mL)

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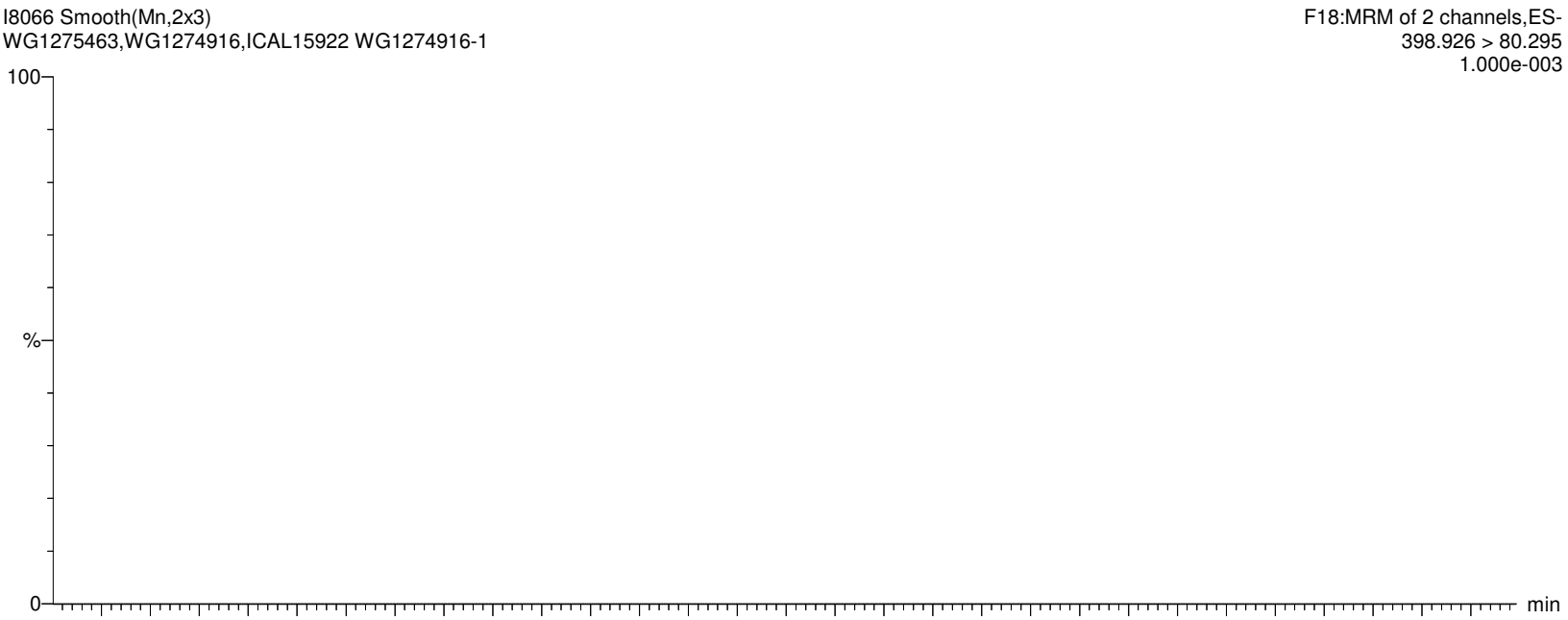


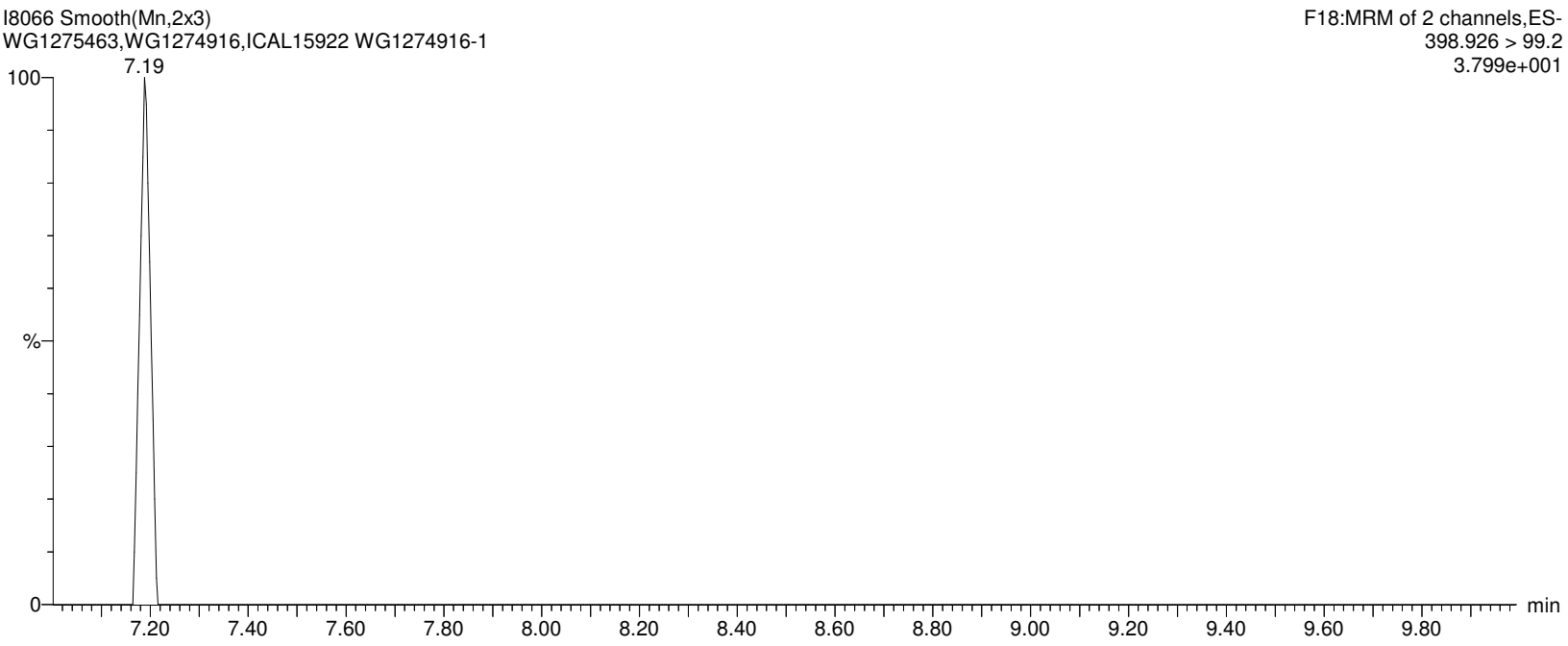
all concentration units in (ng/mL)

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L-PFHxS



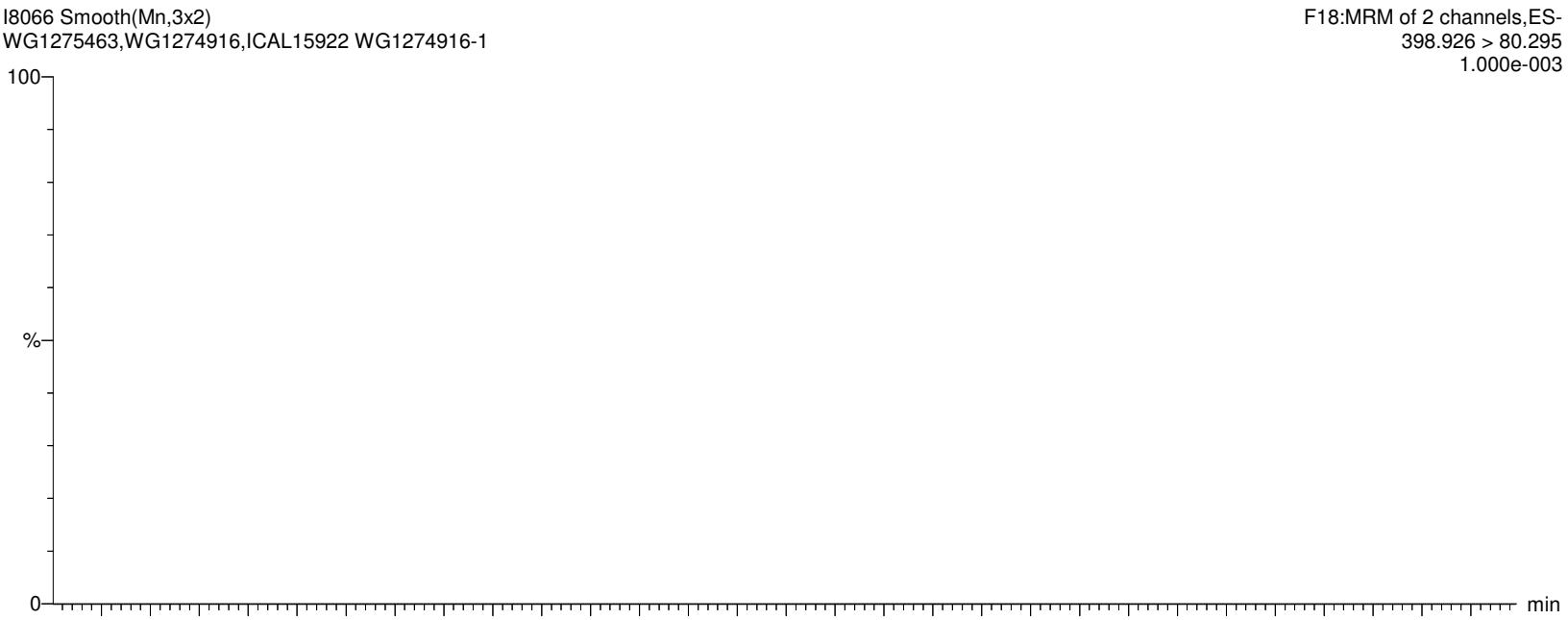


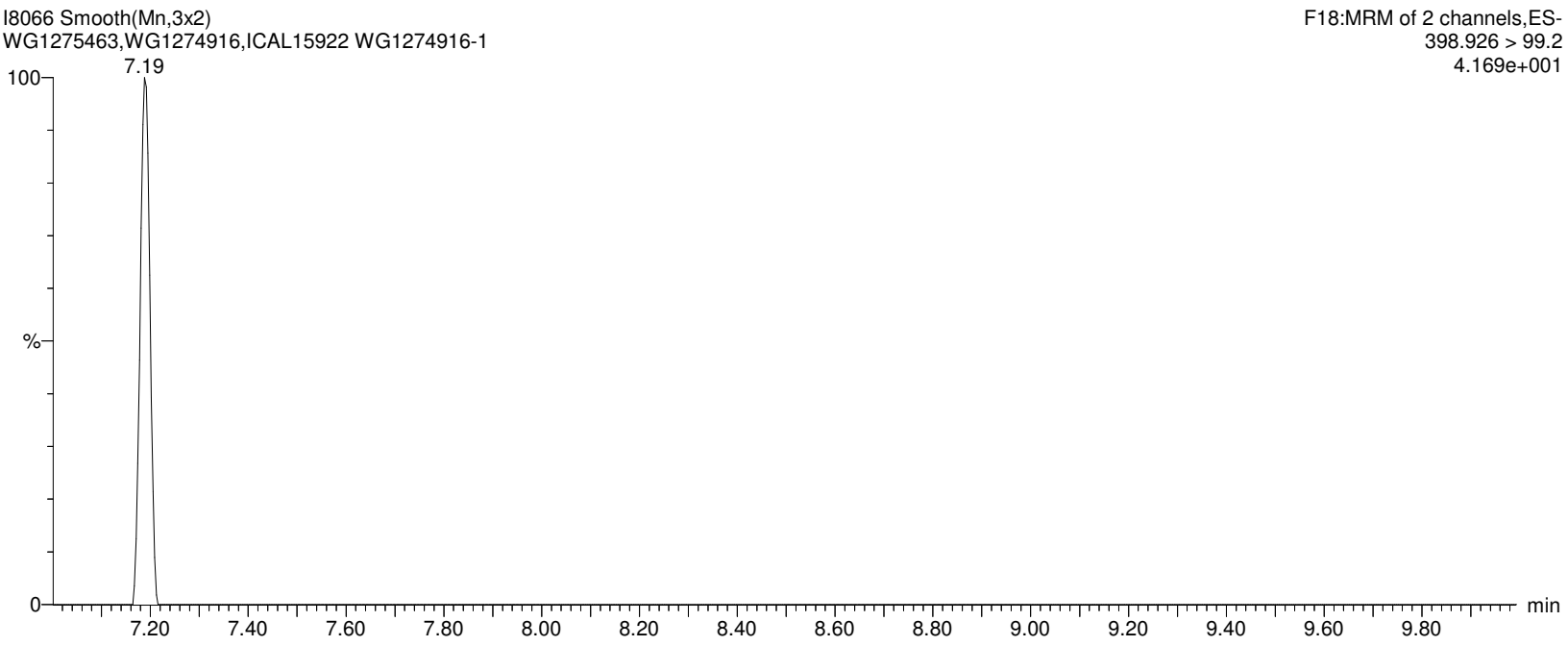
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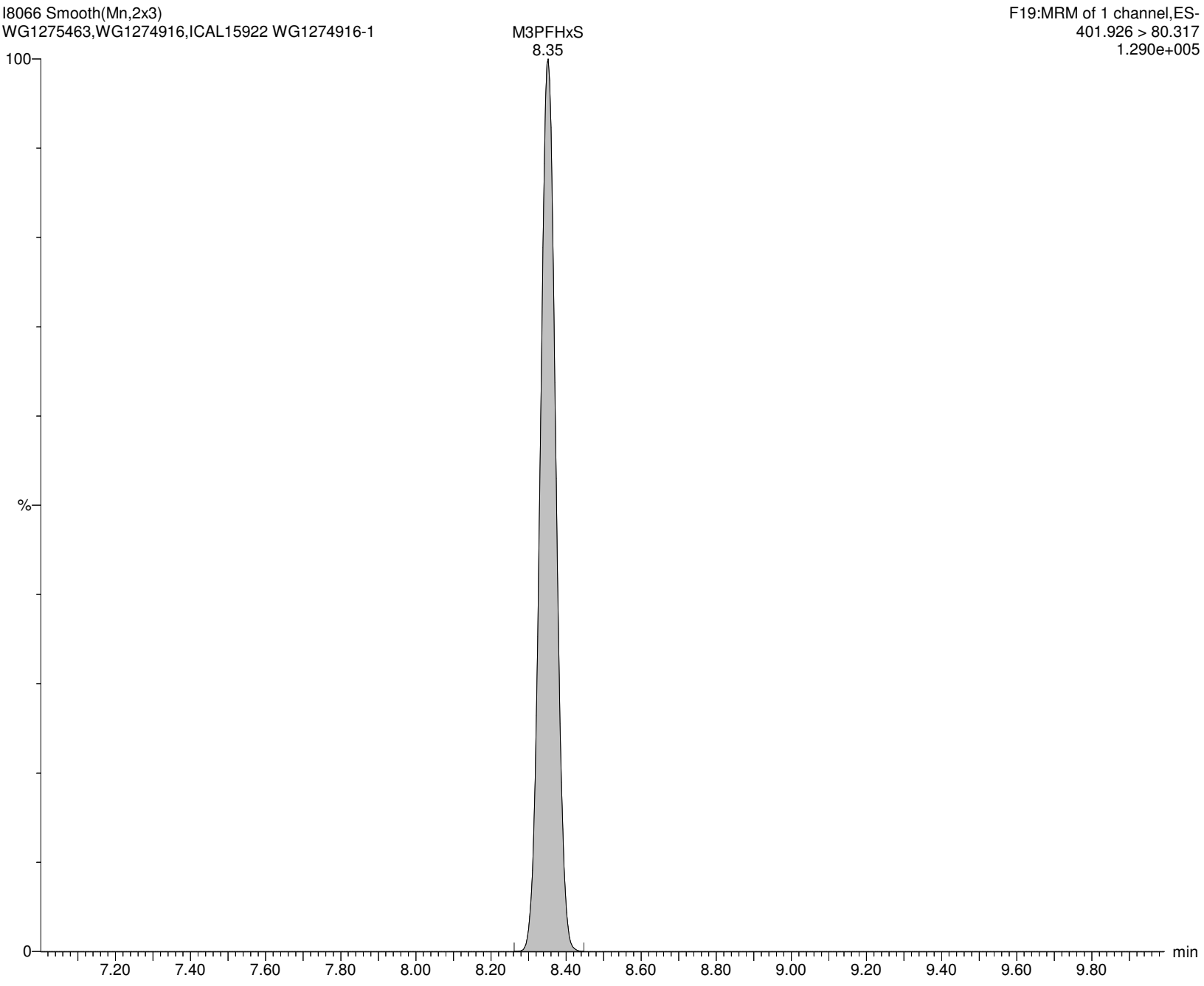


all concentration units in (ng/mL)

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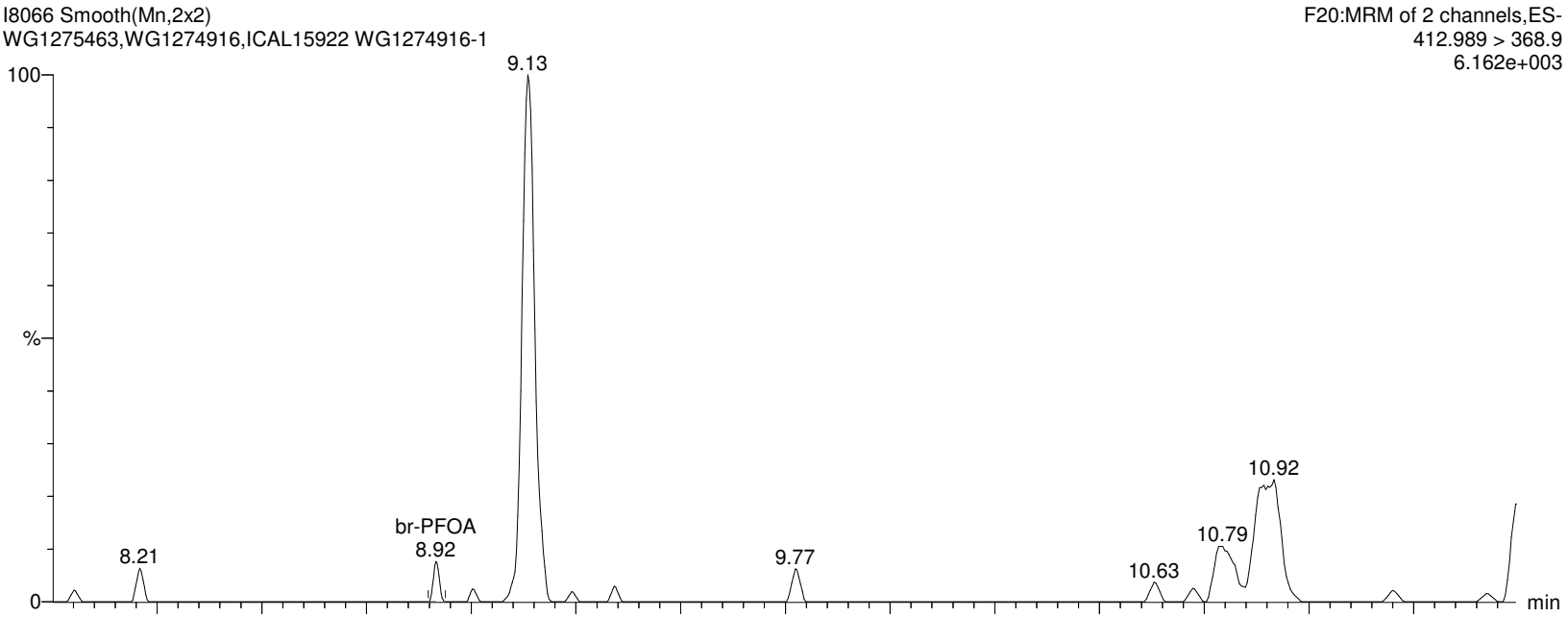


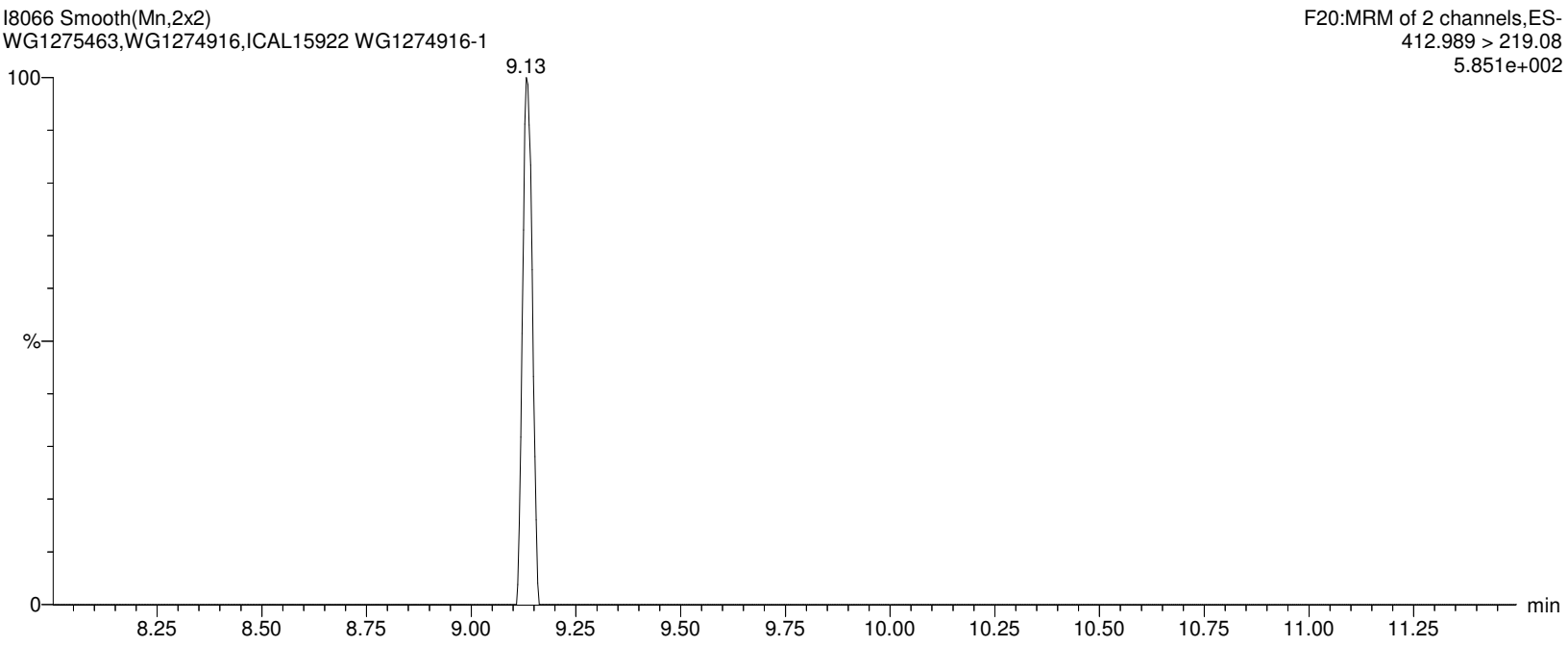
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br-PFOA



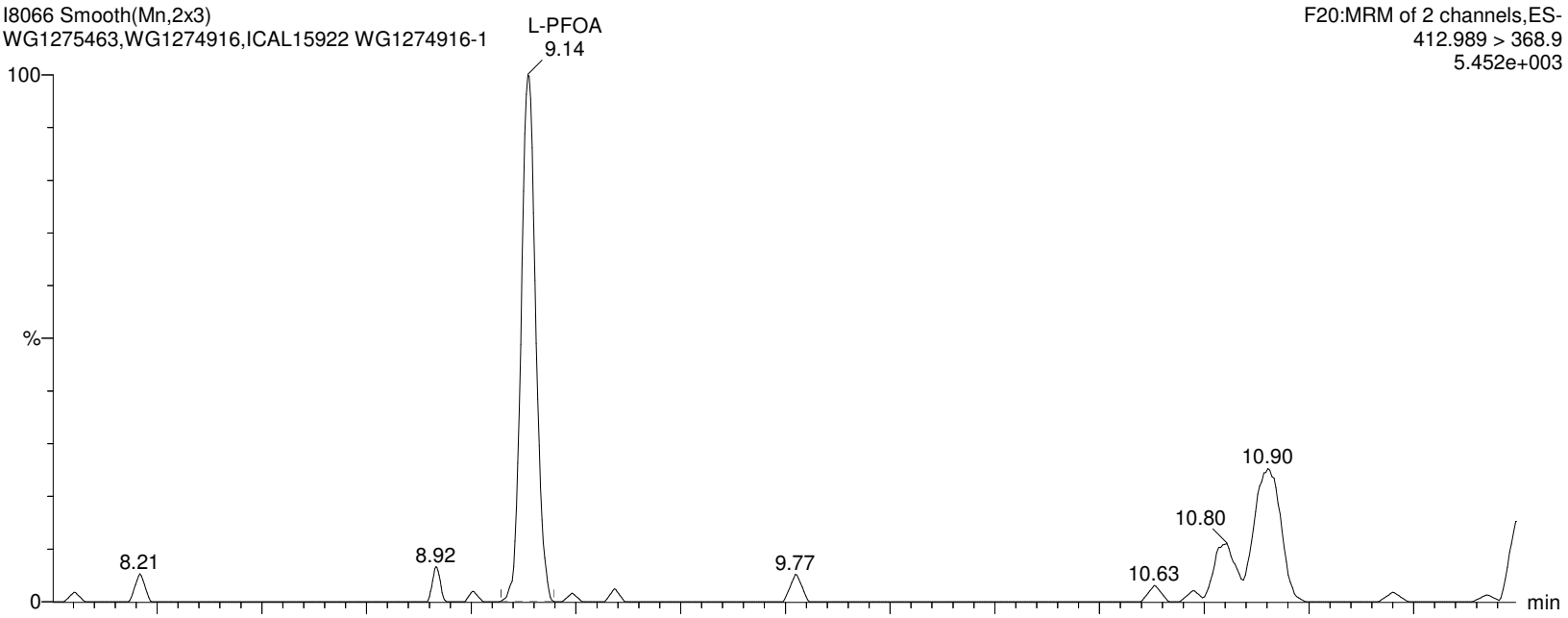


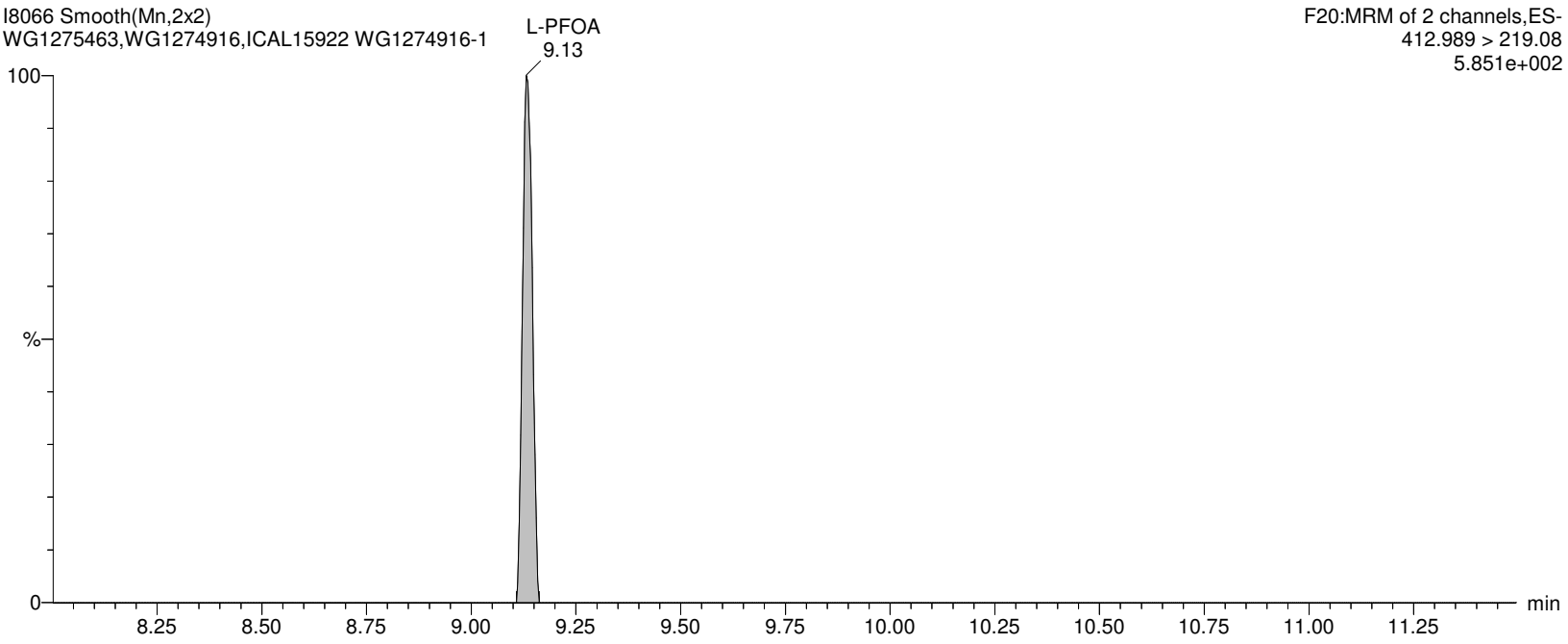
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
Last Altered: Thursday, August 22, 2019 13:45:42 Eastern Daylight Time
Printed: Thursday, August 22, 2019 13:49:27 Eastern Daylight Time

Name: I8066
ID: WG1274916-1
Date: 22-Aug-2019
Time: 11:44:01
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:B,6
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
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L-PFOA



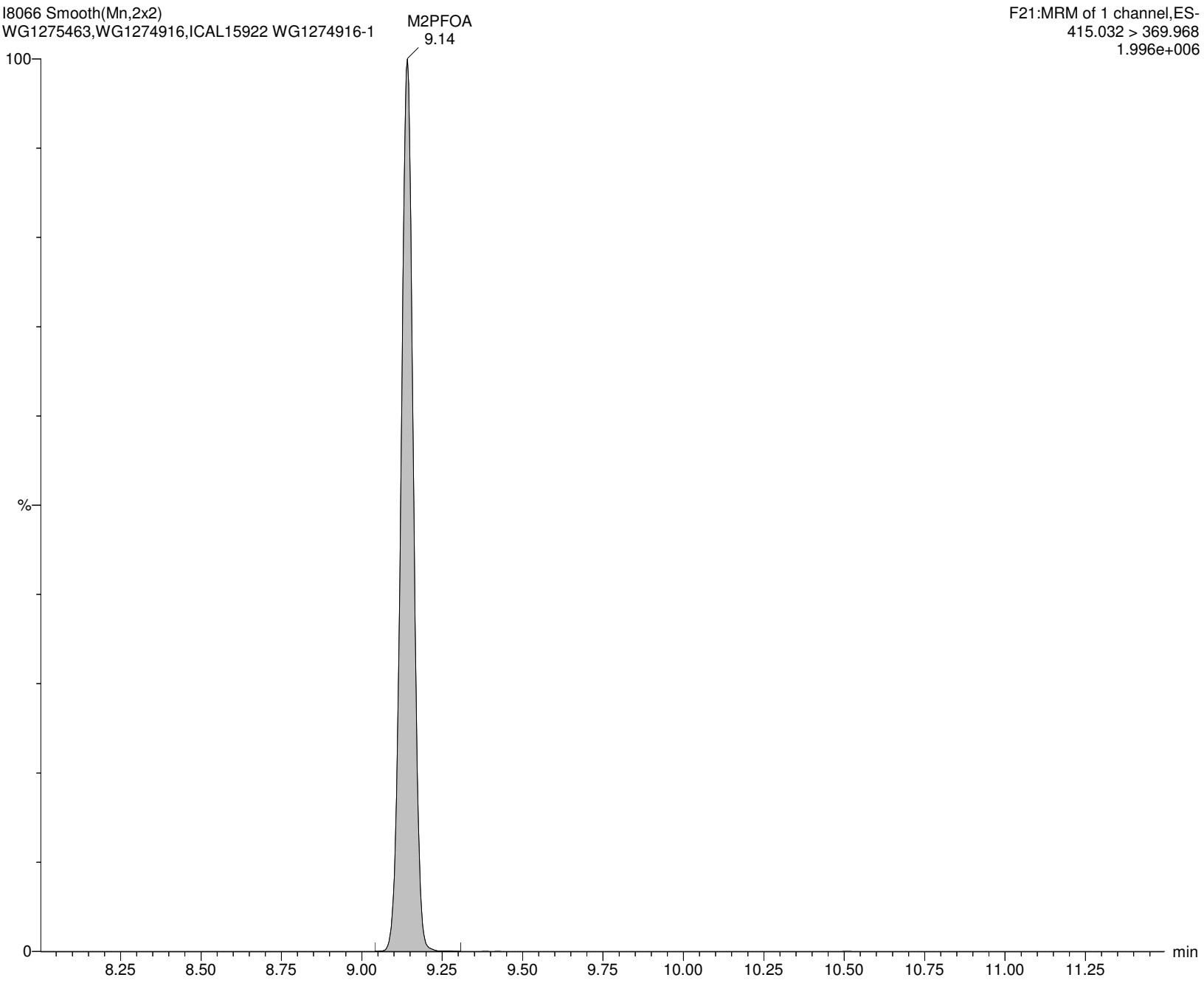


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
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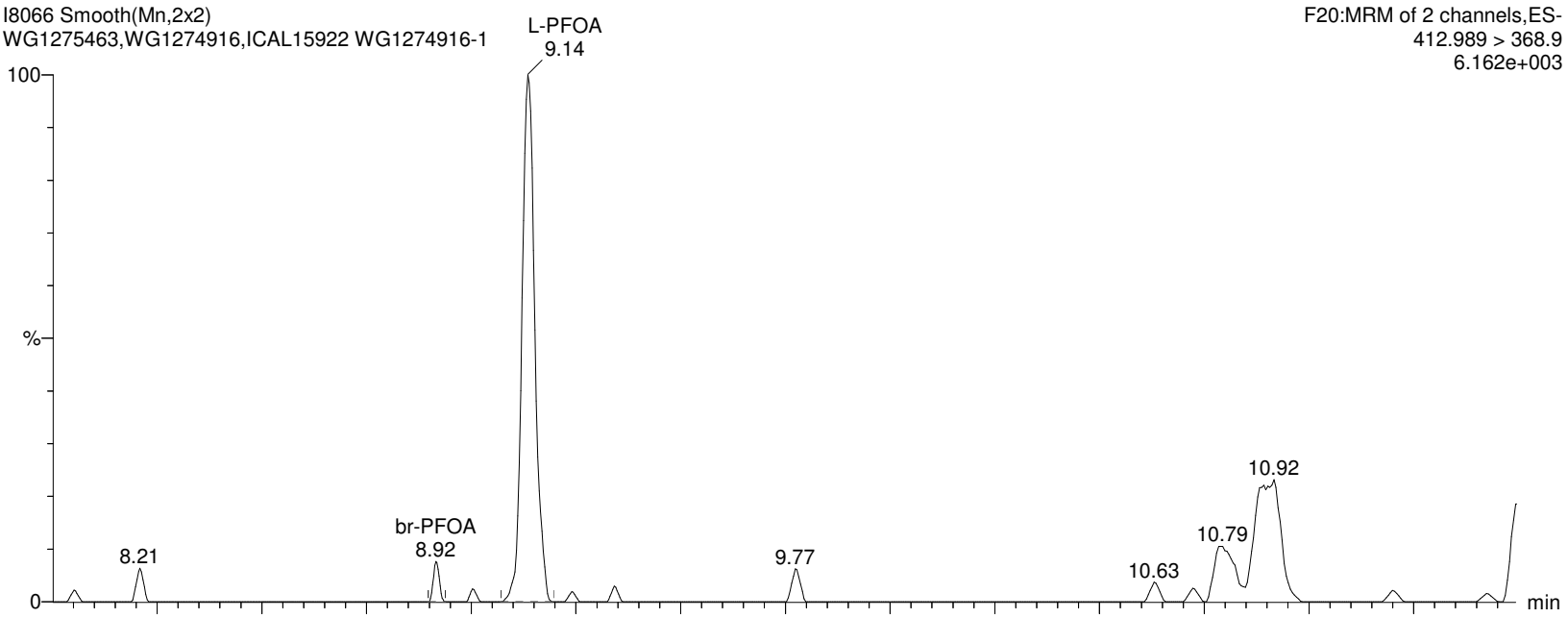


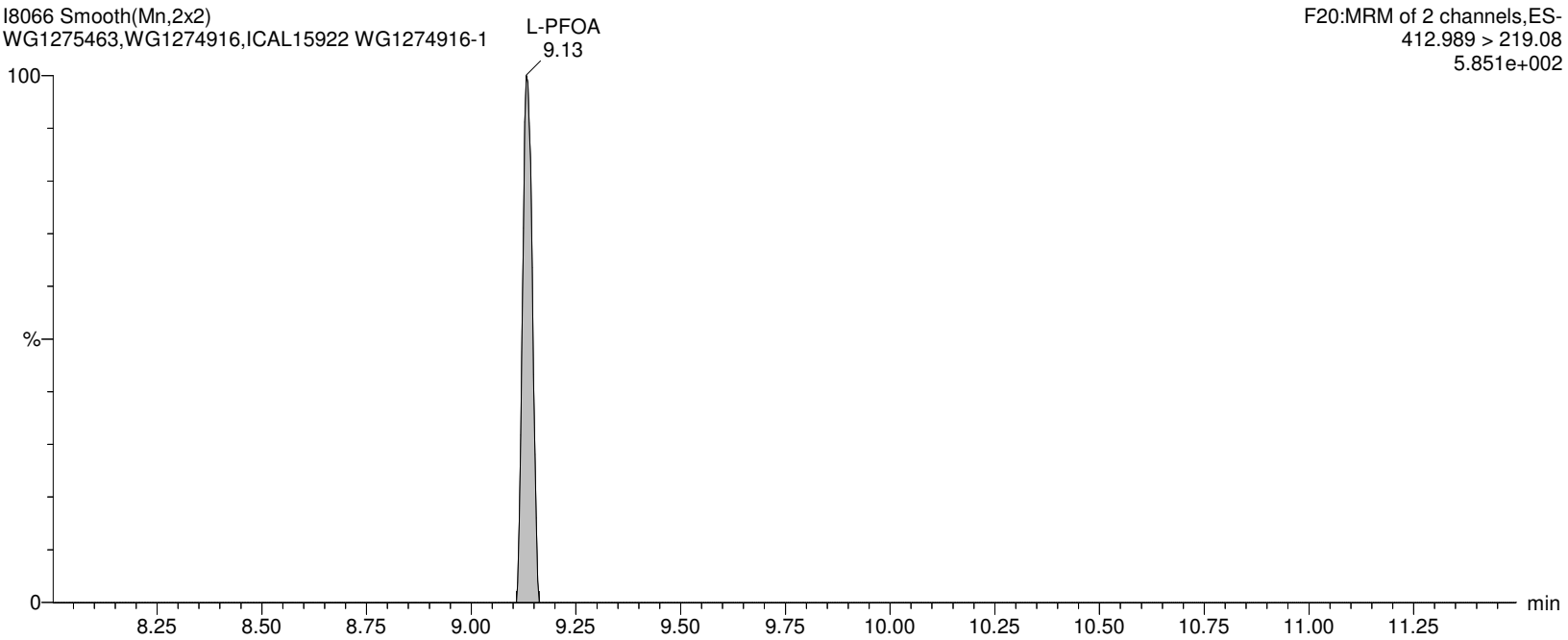
all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
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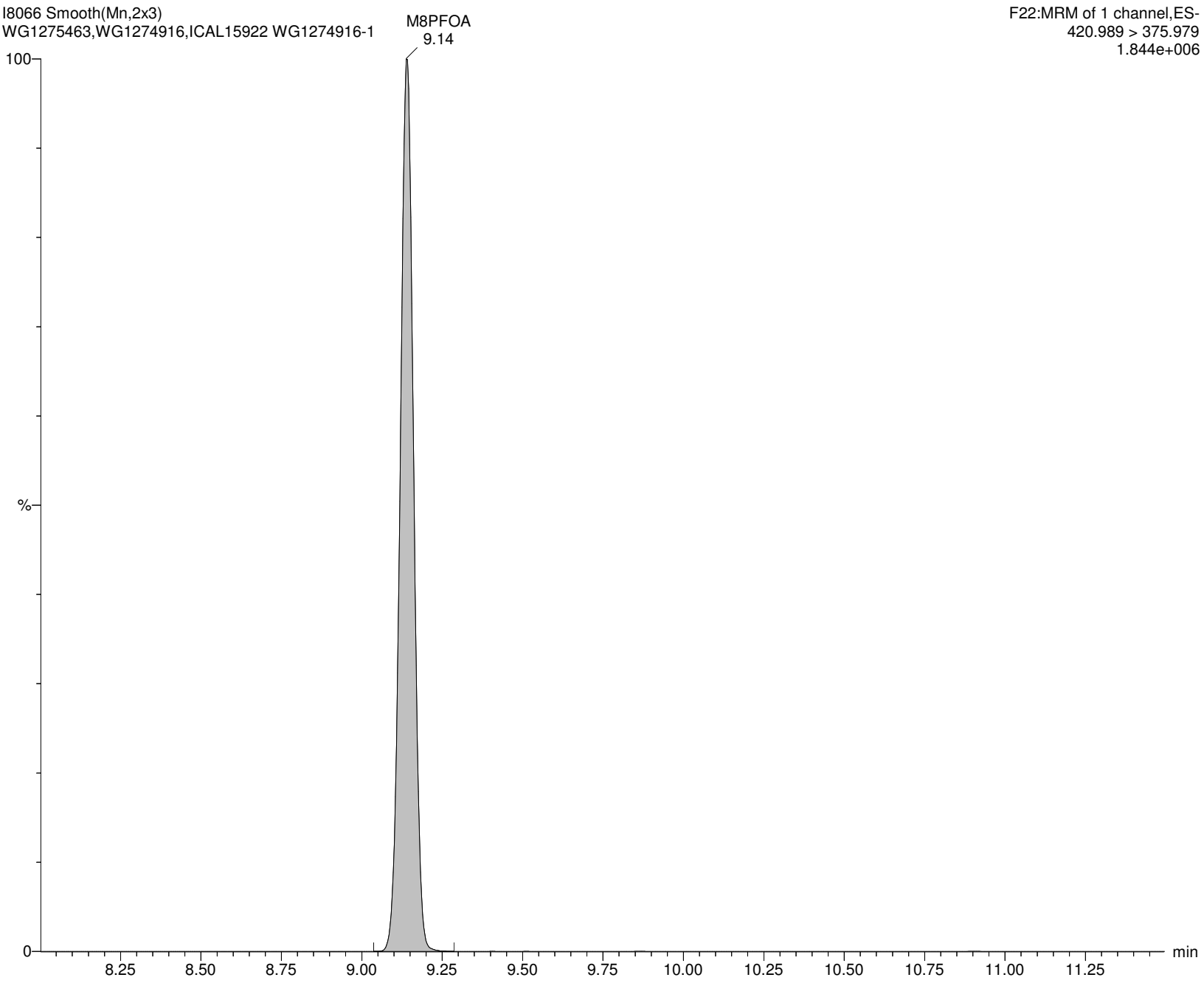


all concentration units in (ng/mL)

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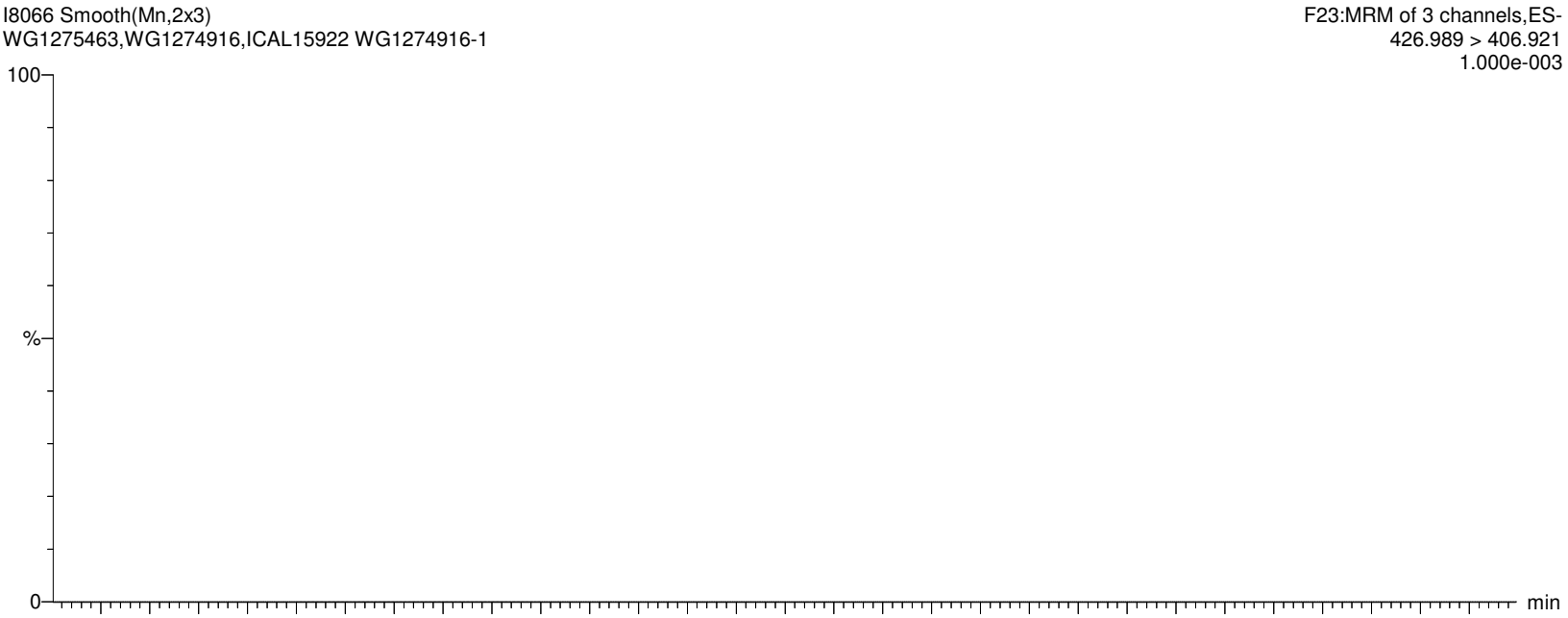


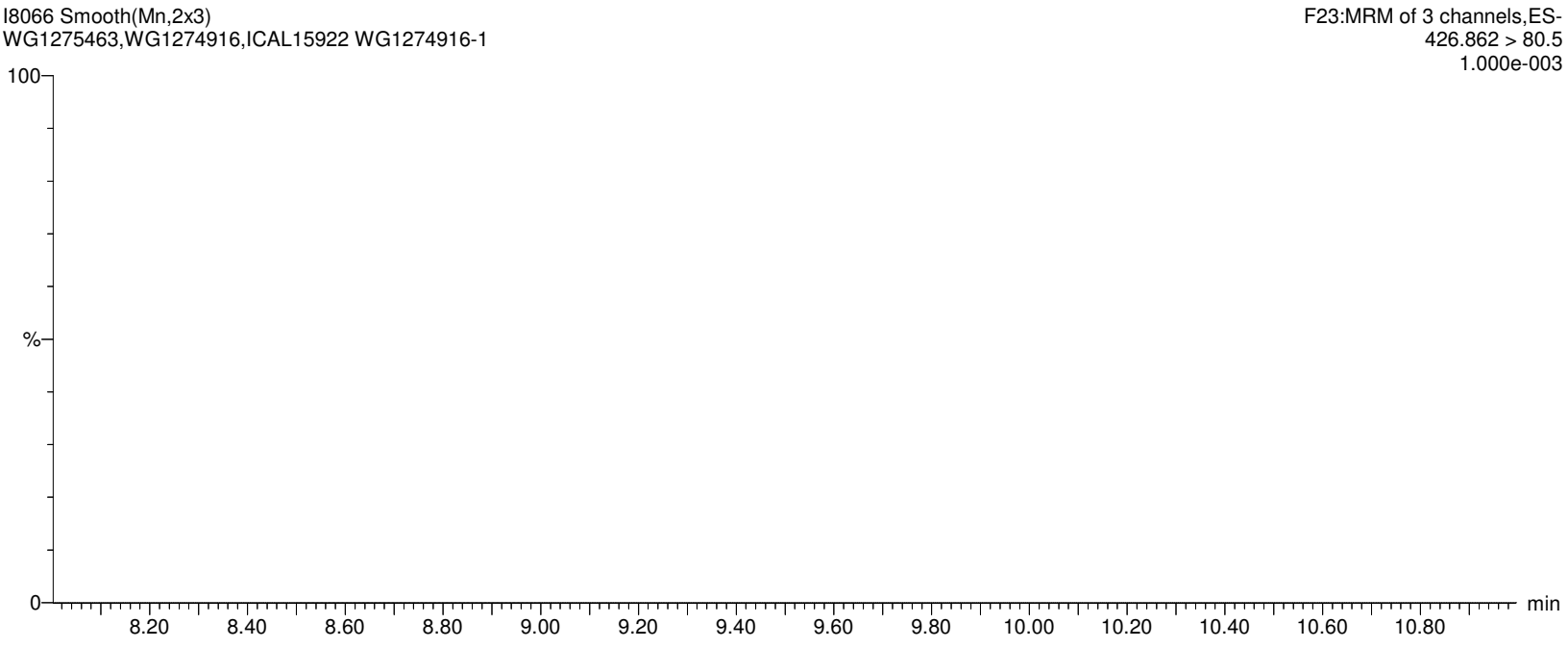
all concentration units in (ng/mL)

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6:2FTS



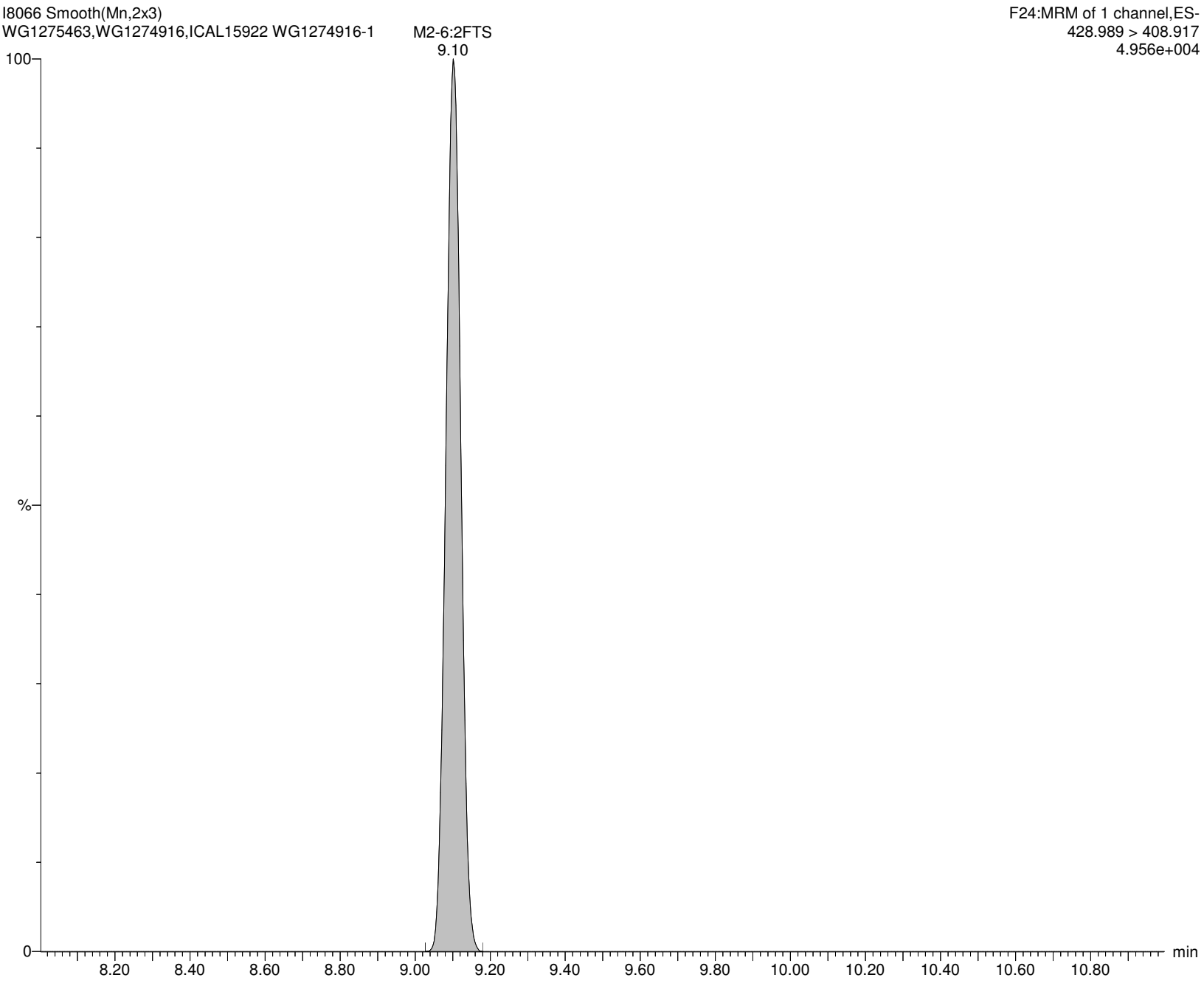


all concentration units in (ng/mL)

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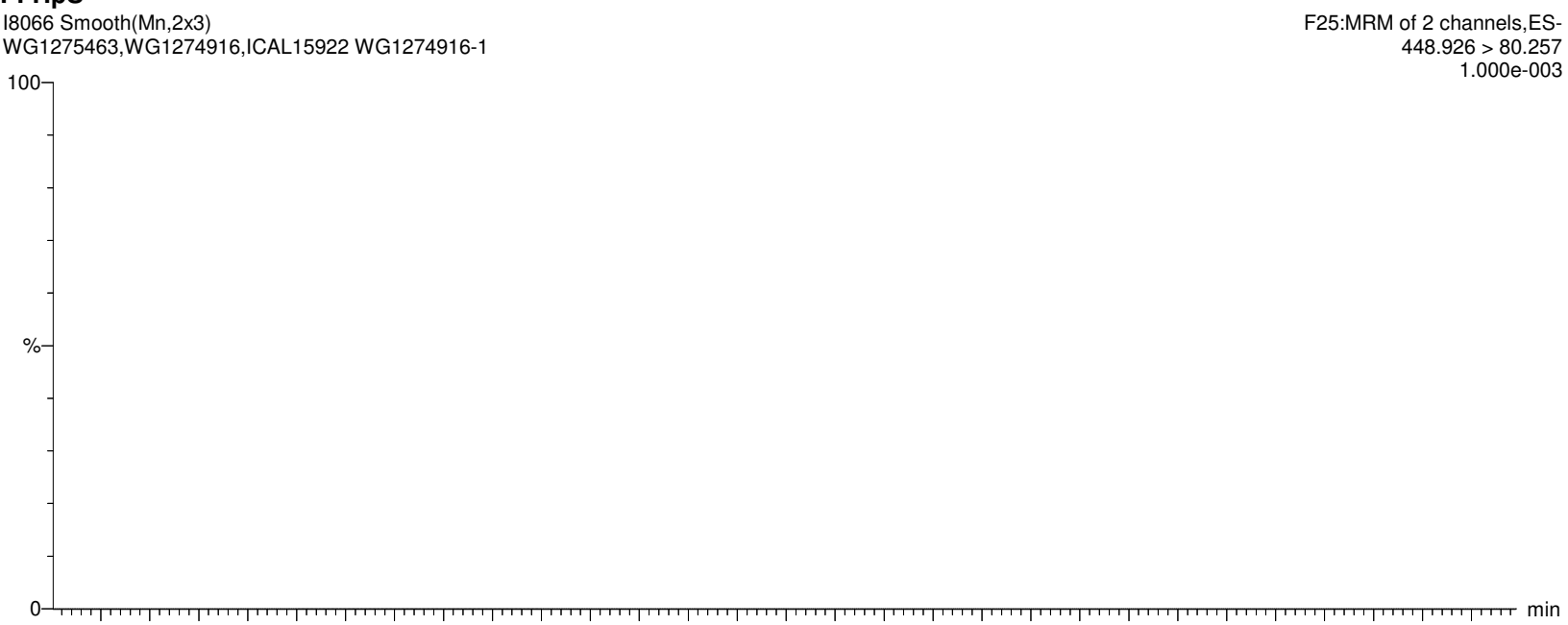


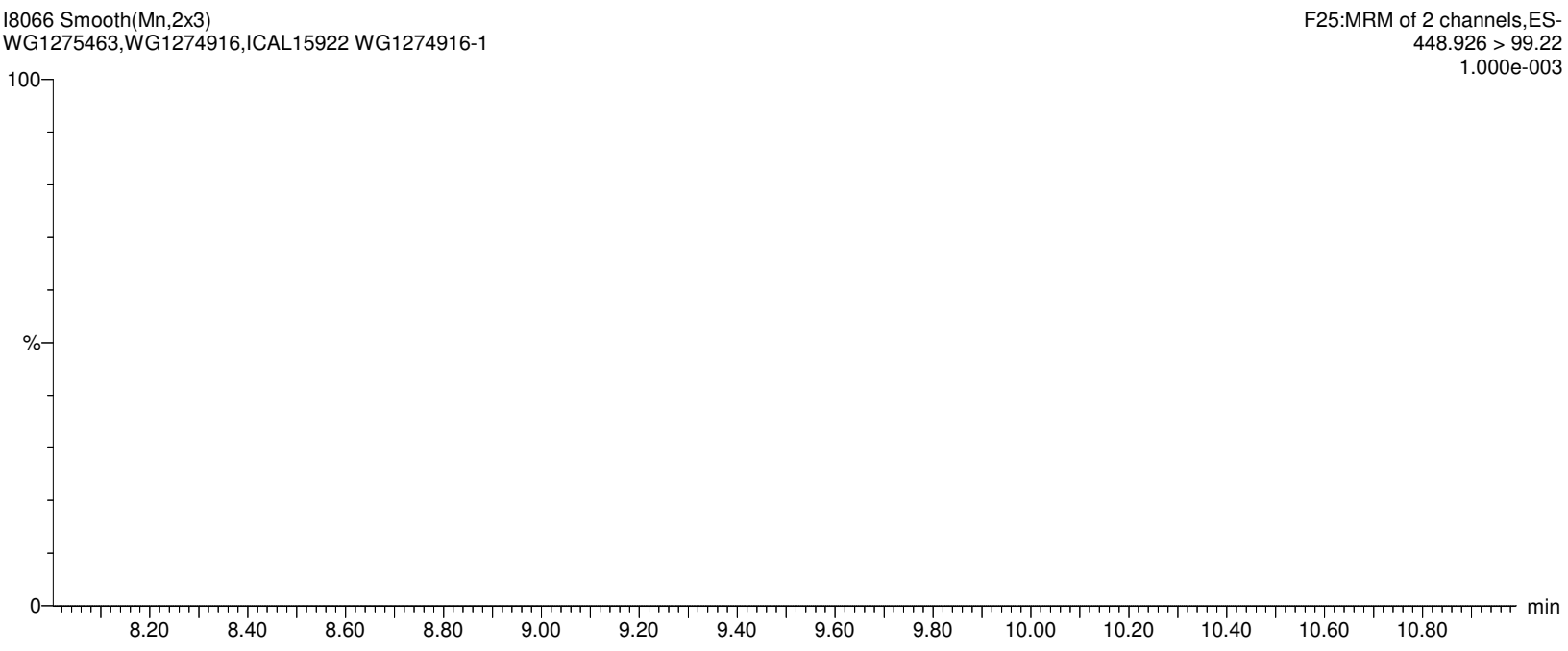
all concentration units in (ng/mL)

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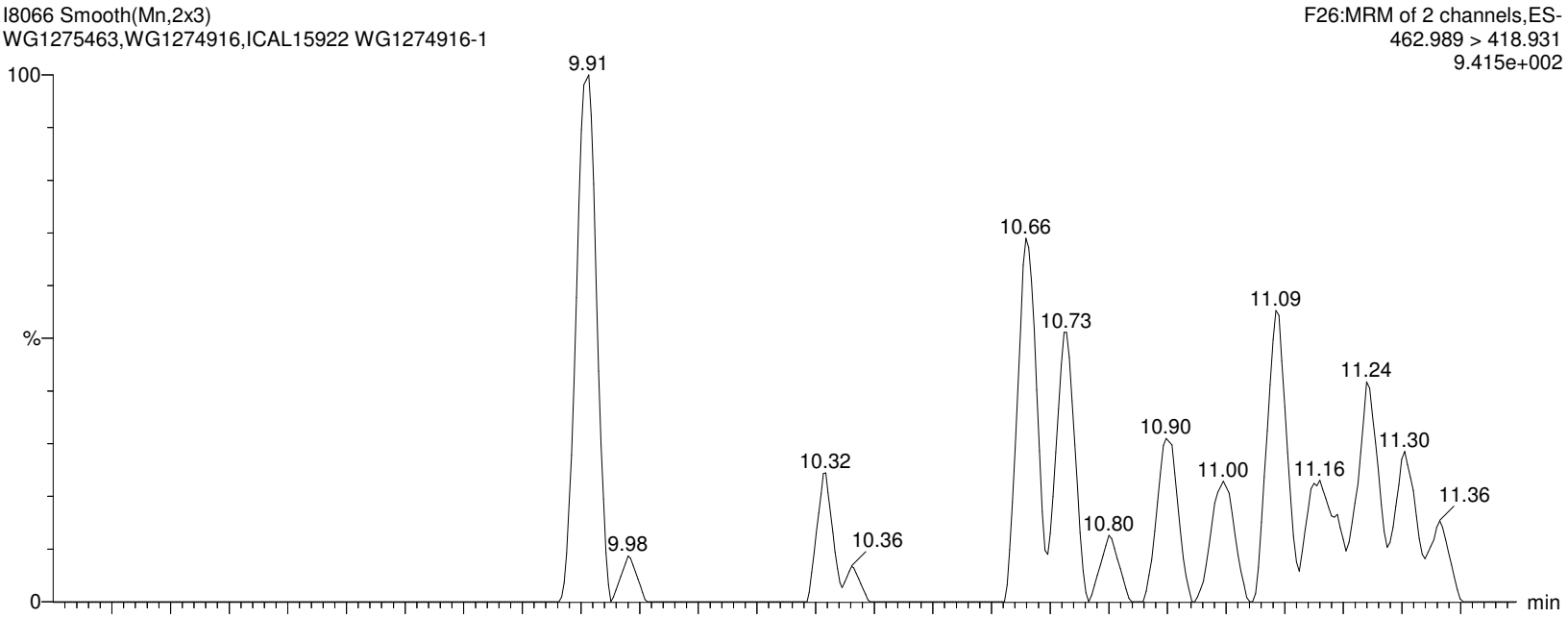


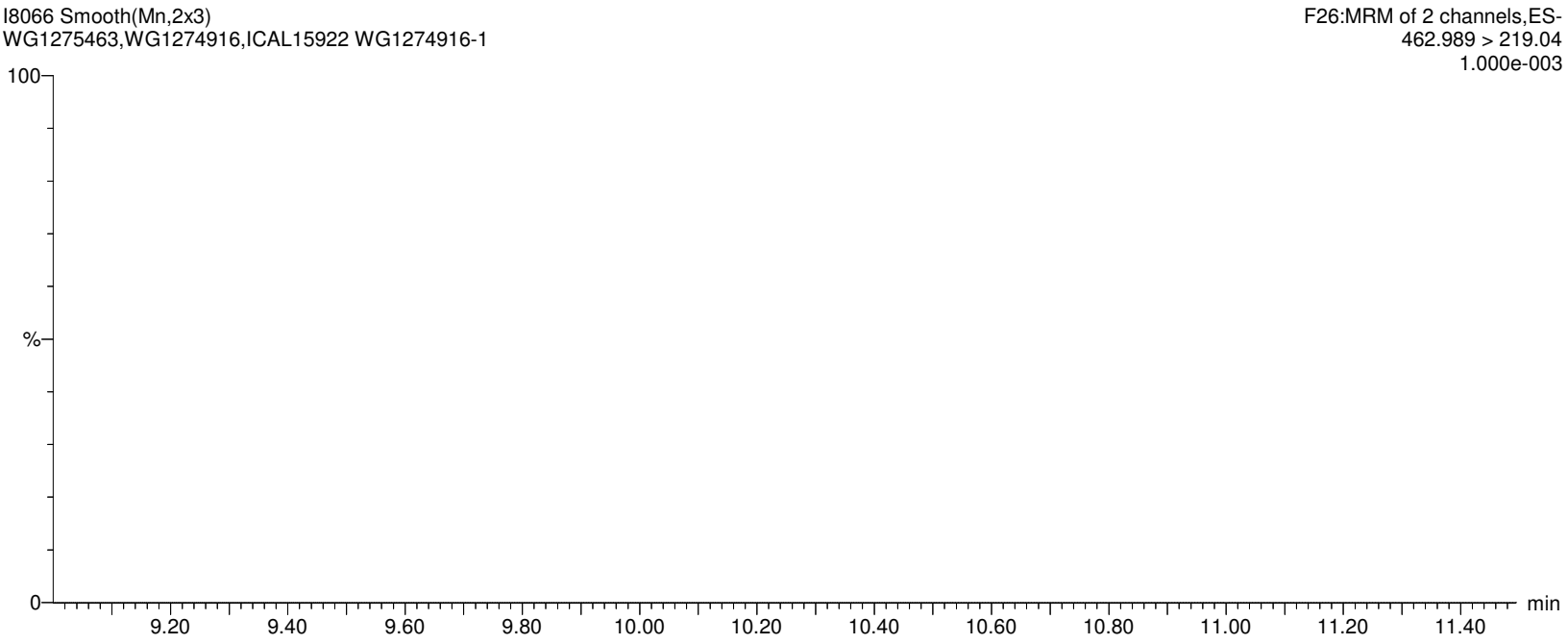
all concentration units in (ng/mL)

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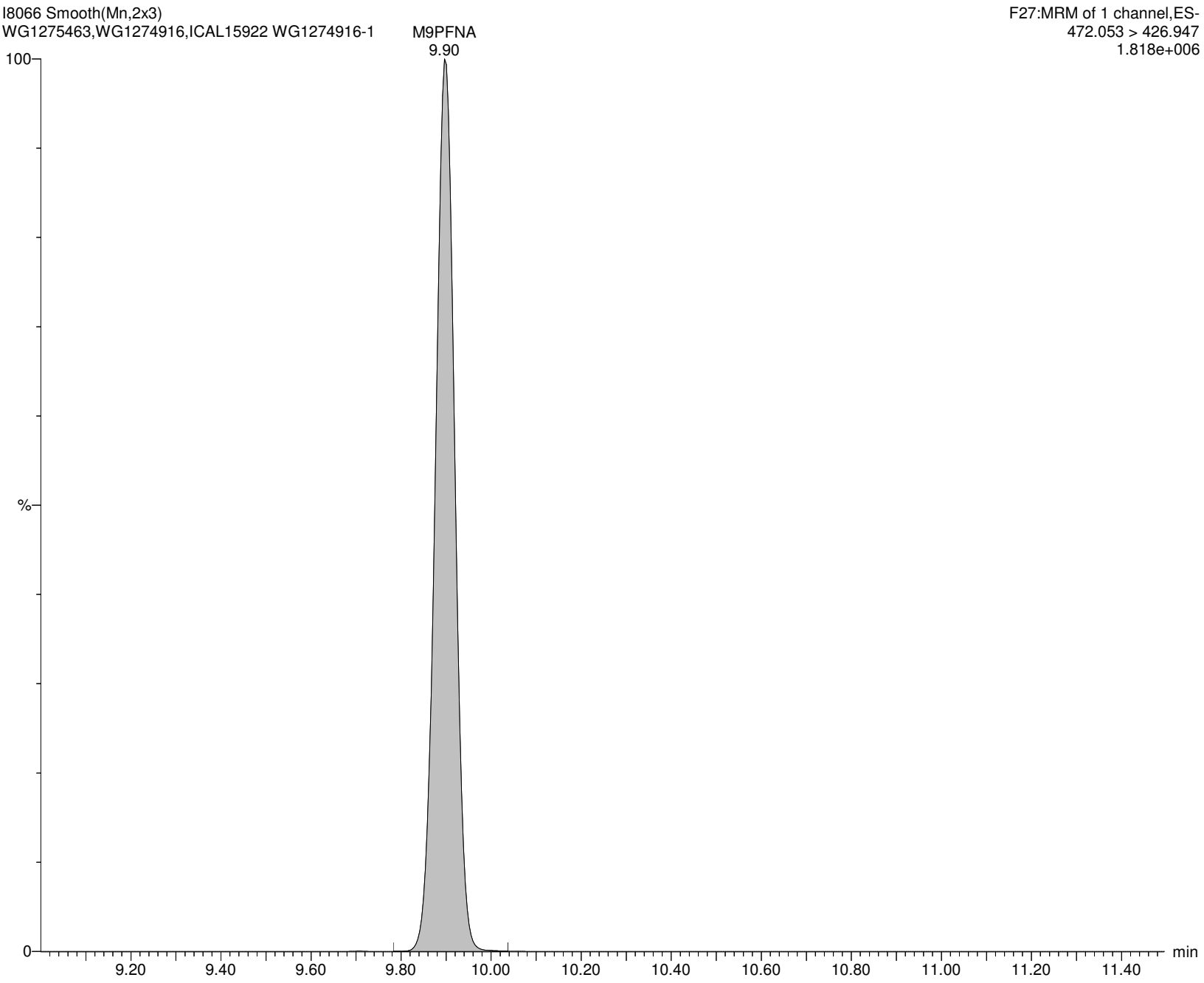


all concentration units in (ng/mL)

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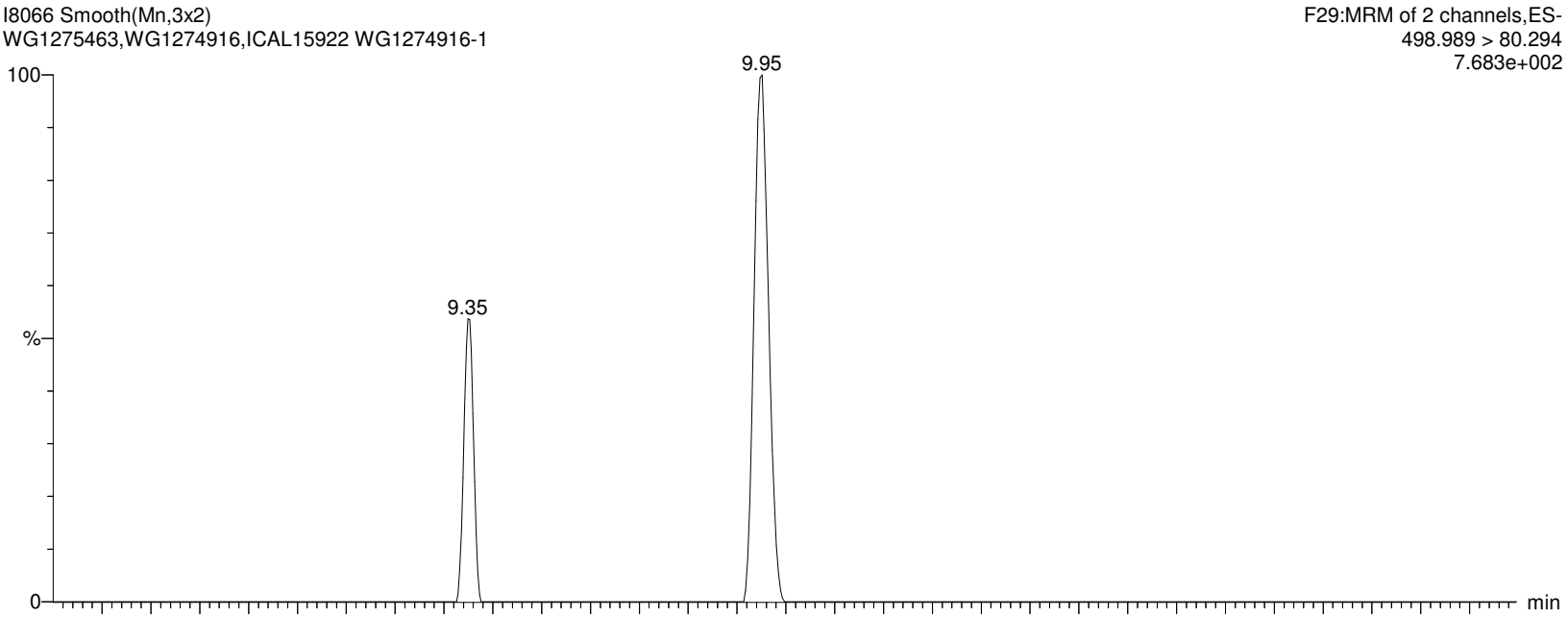


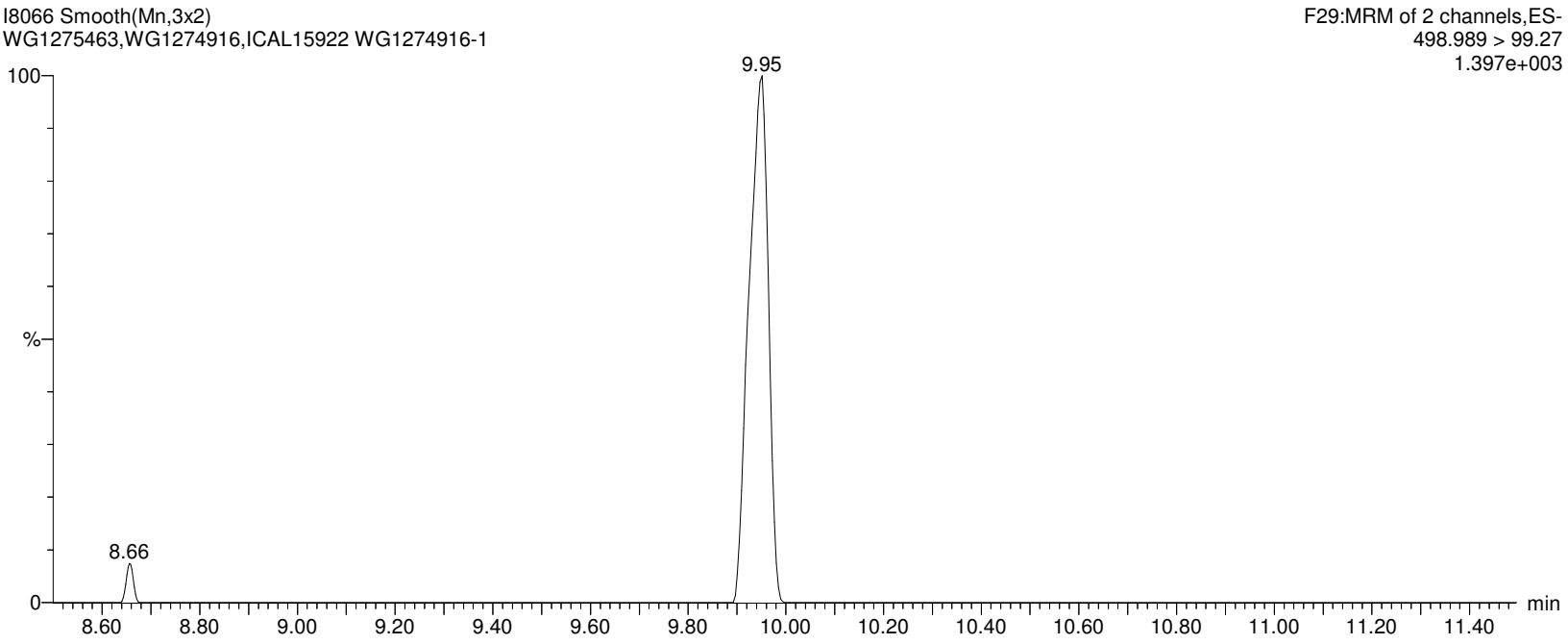
all concentration units in (ng/mL)

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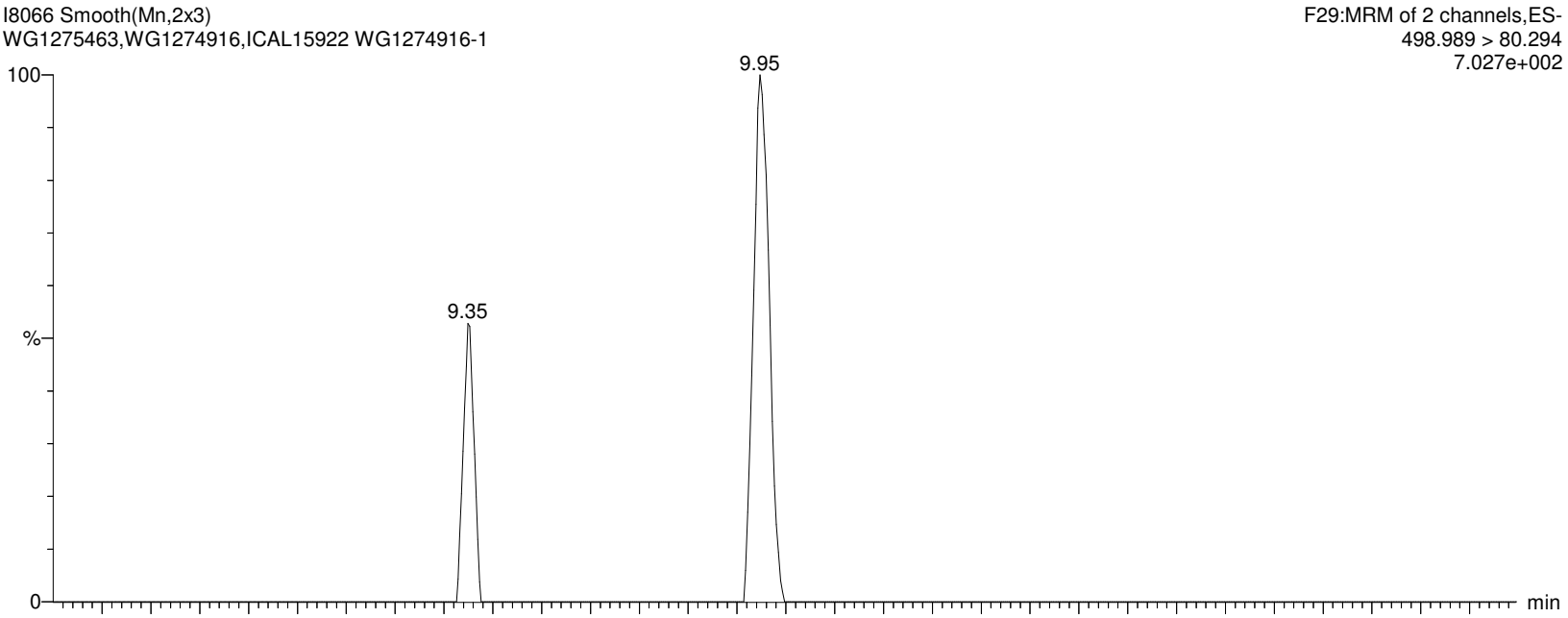


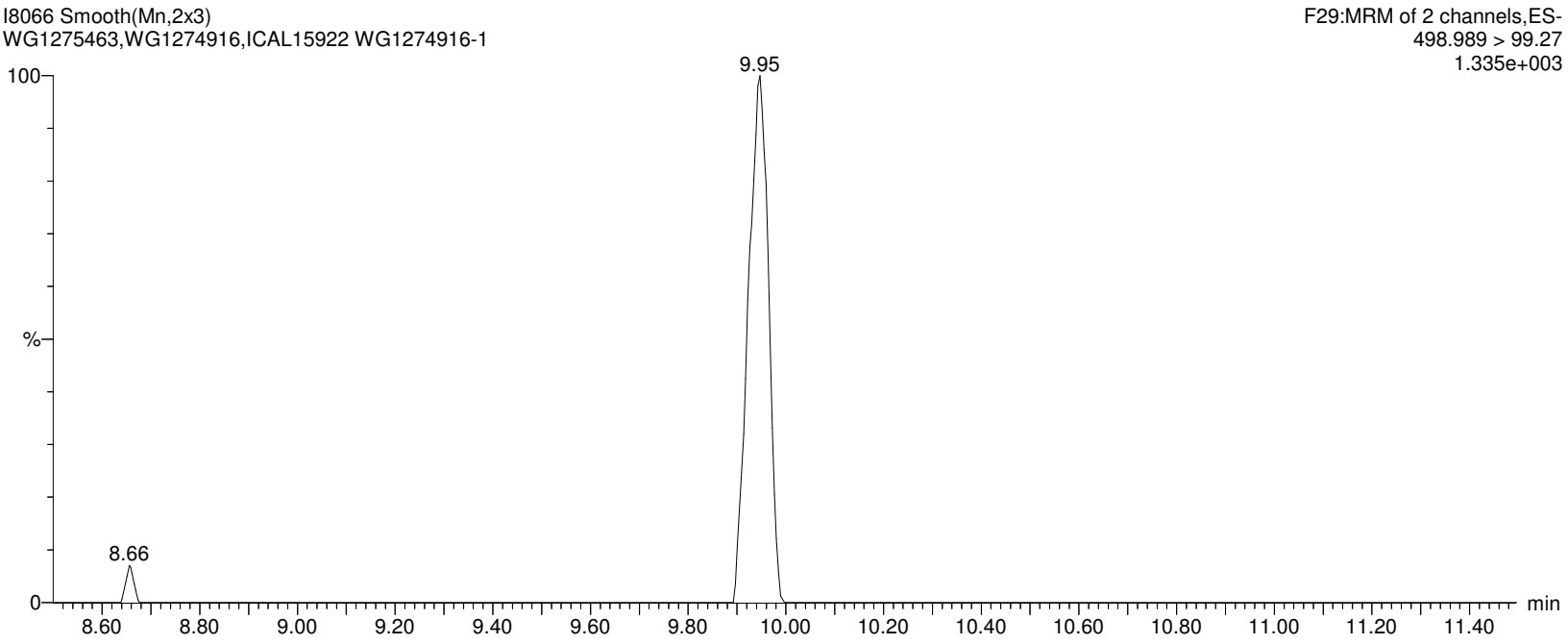
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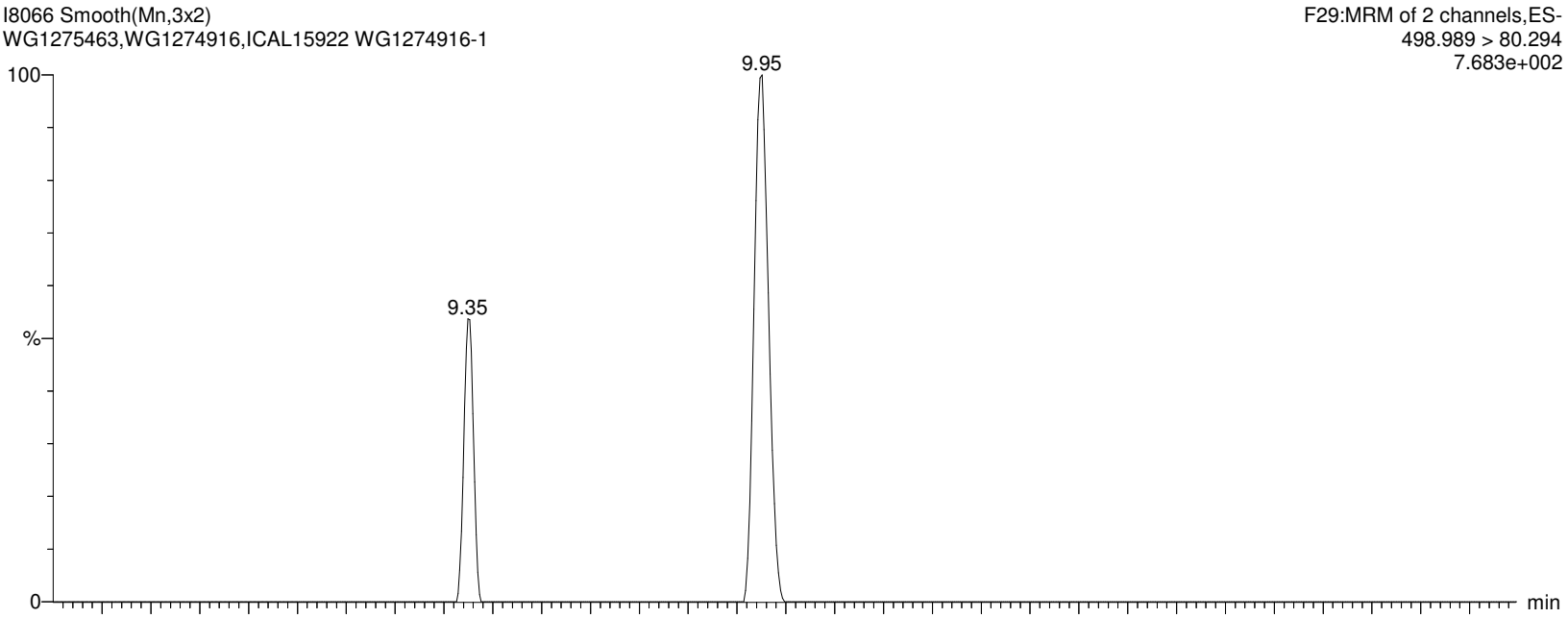


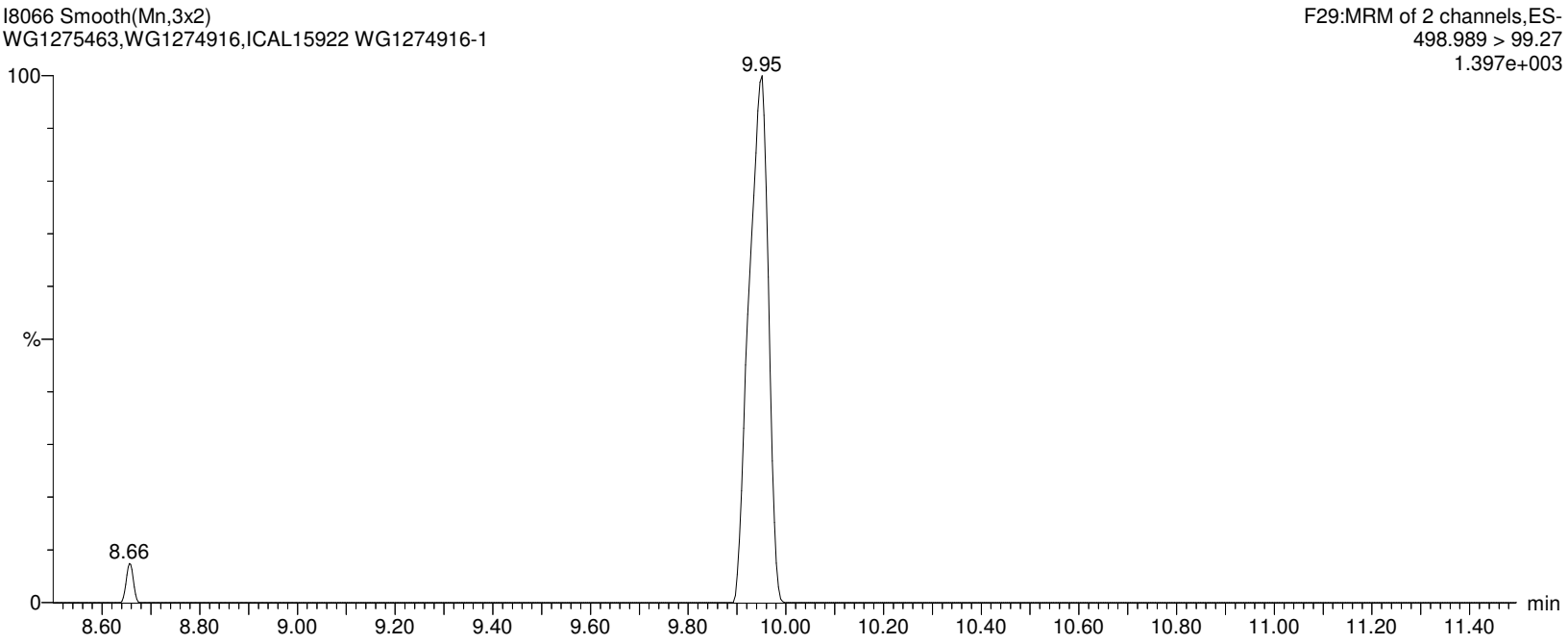
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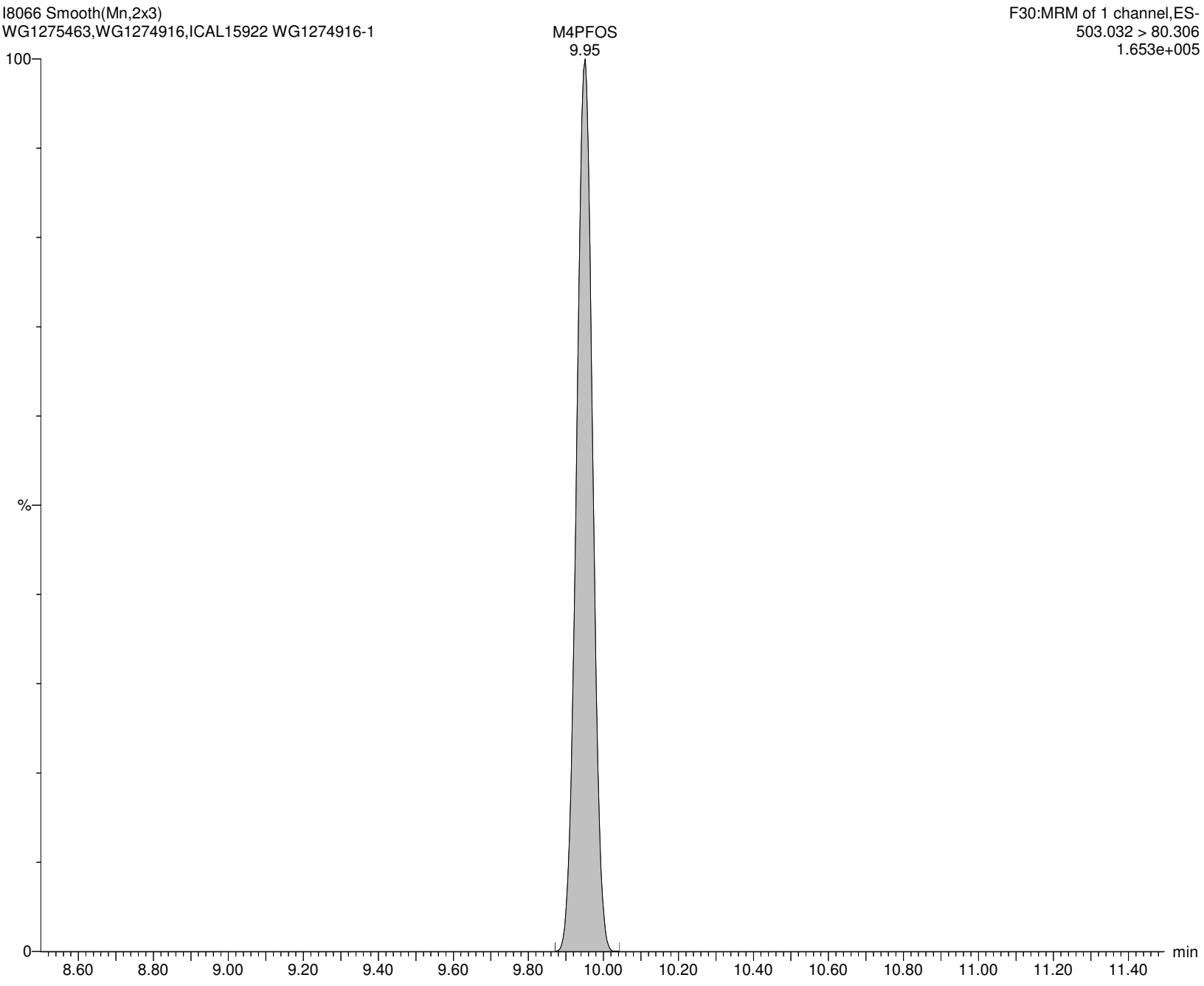


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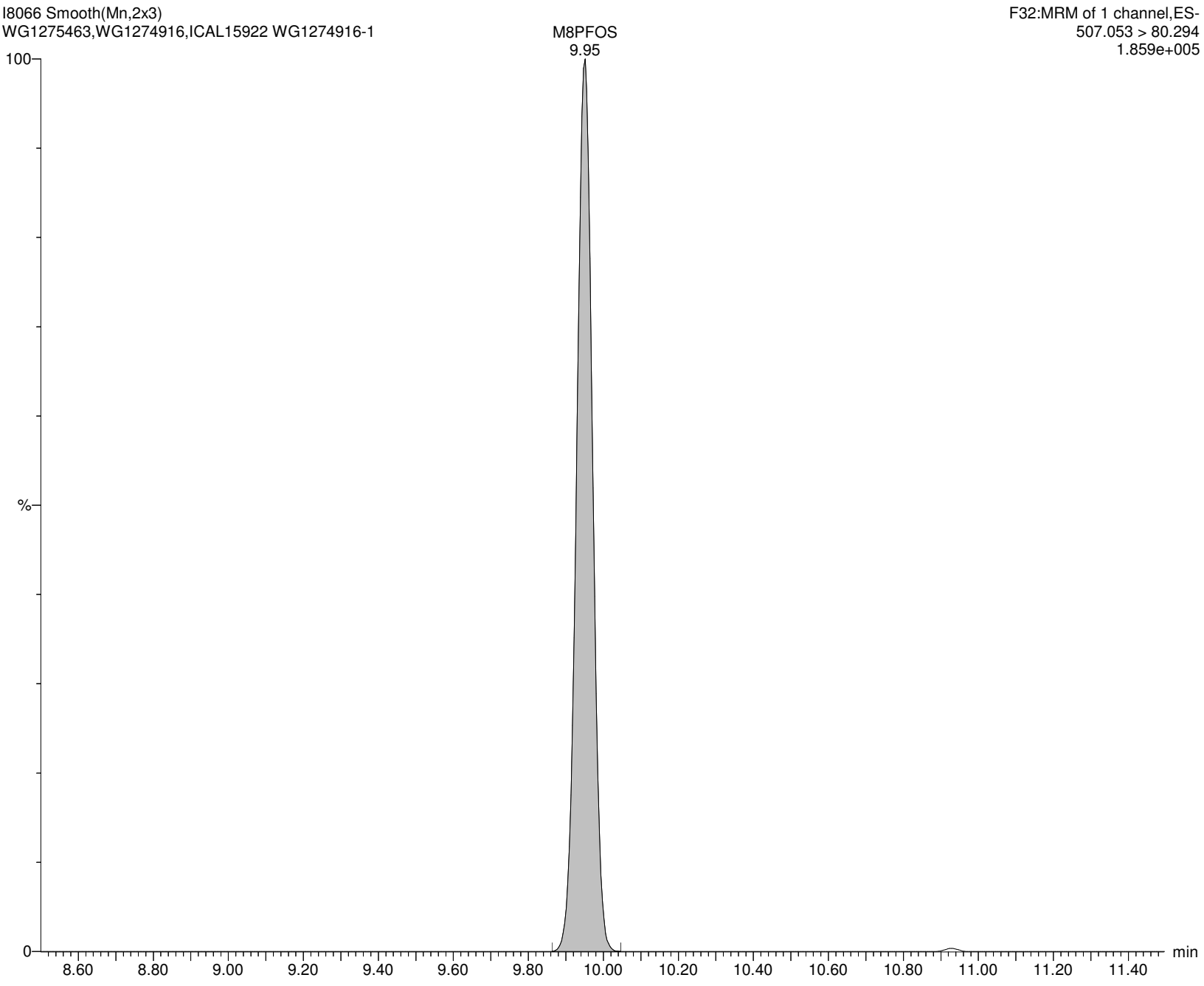


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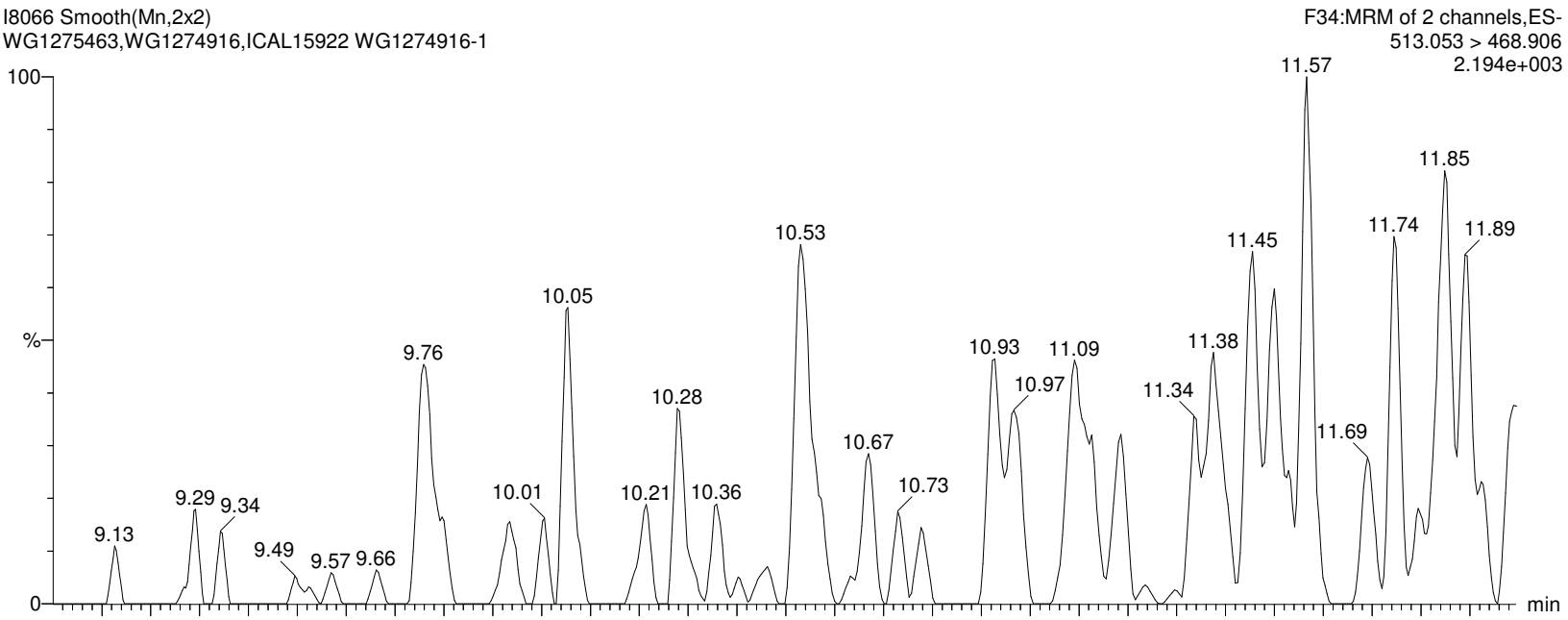


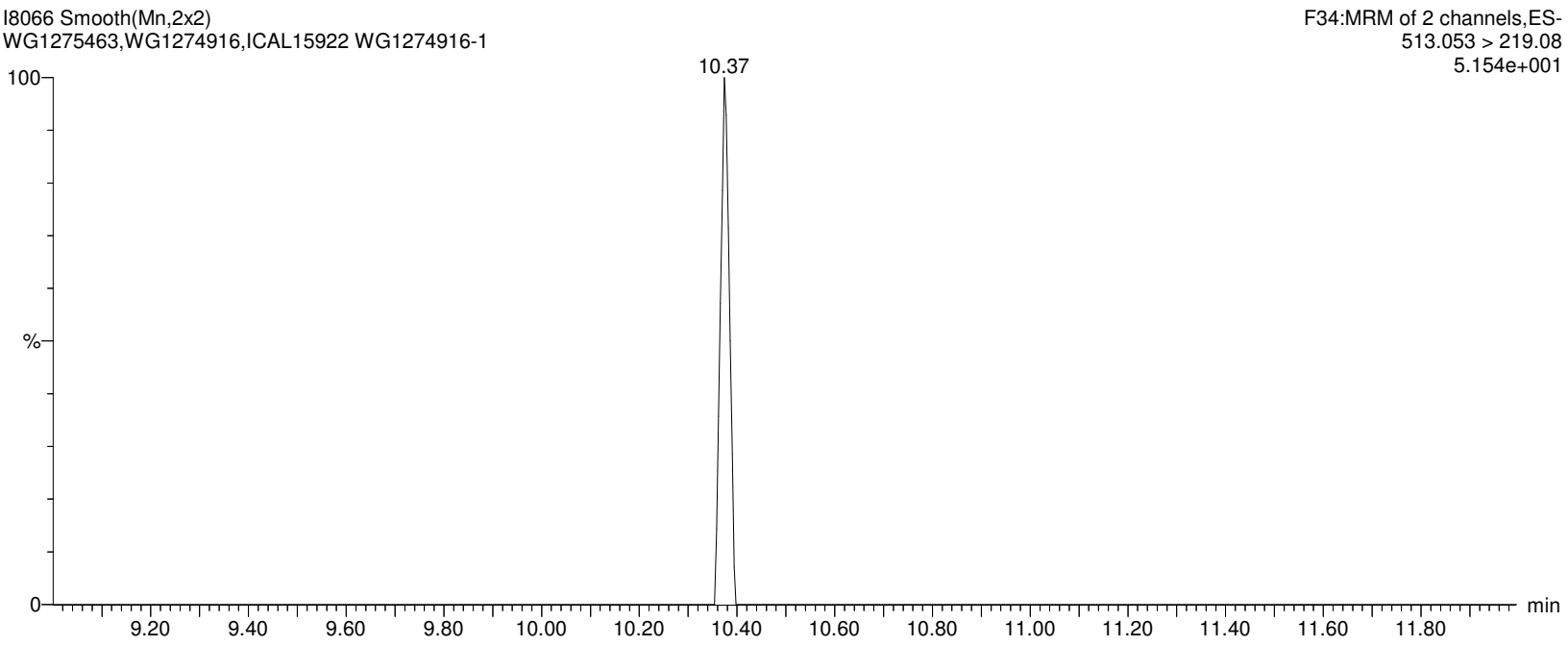
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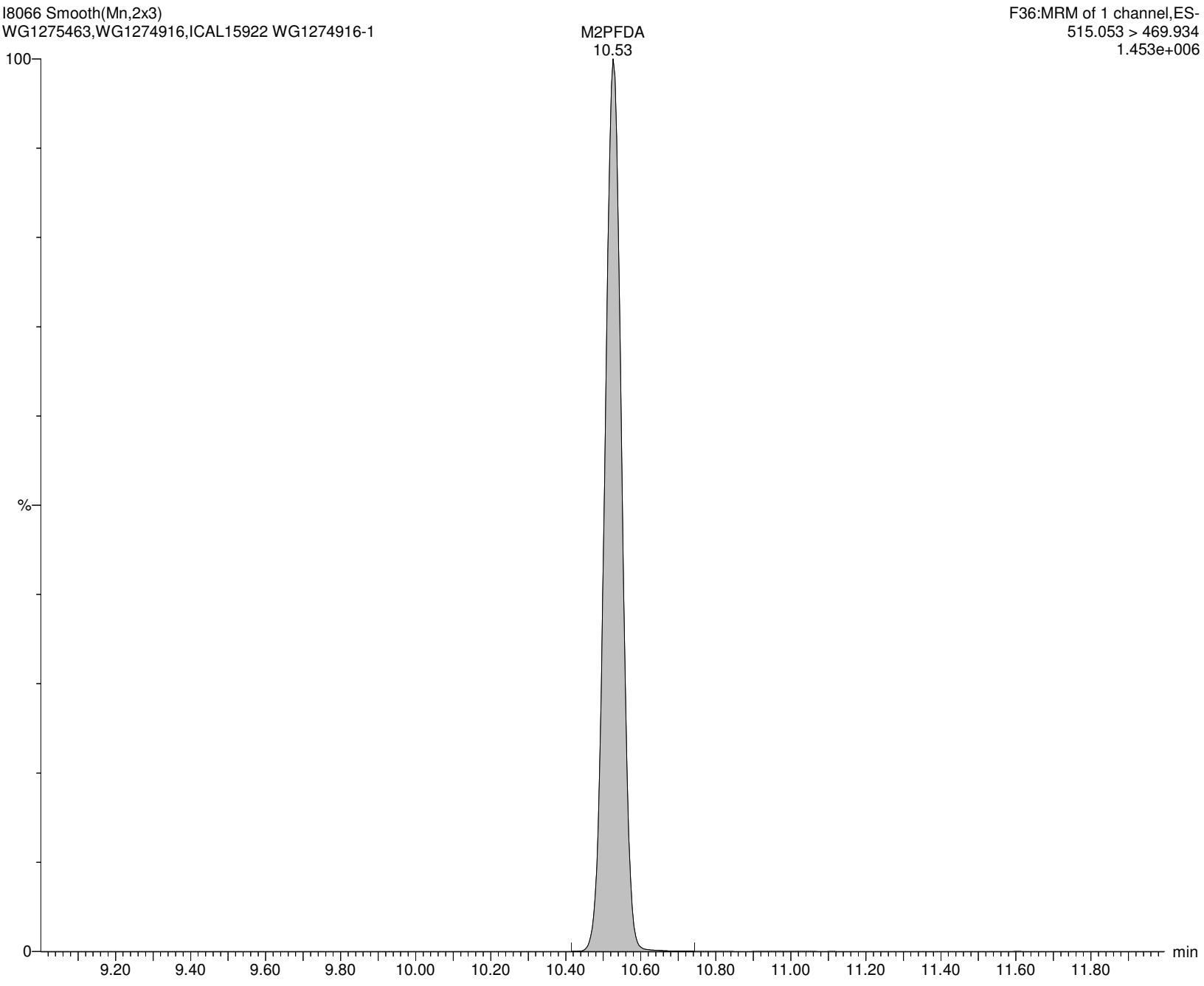


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
Last Altered: Thursday, August 22, 2019 13:45:42 Eastern Daylight Time
Printed: Thursday, August 22, 2019 13:49:27 Eastern Daylight Time

Name: I8066
ID: WG1274916-1
Date: 22-Aug-2019
Time: 11:44:01
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:B,6
Instrument: XEVO-TQSmicro#QEB0050
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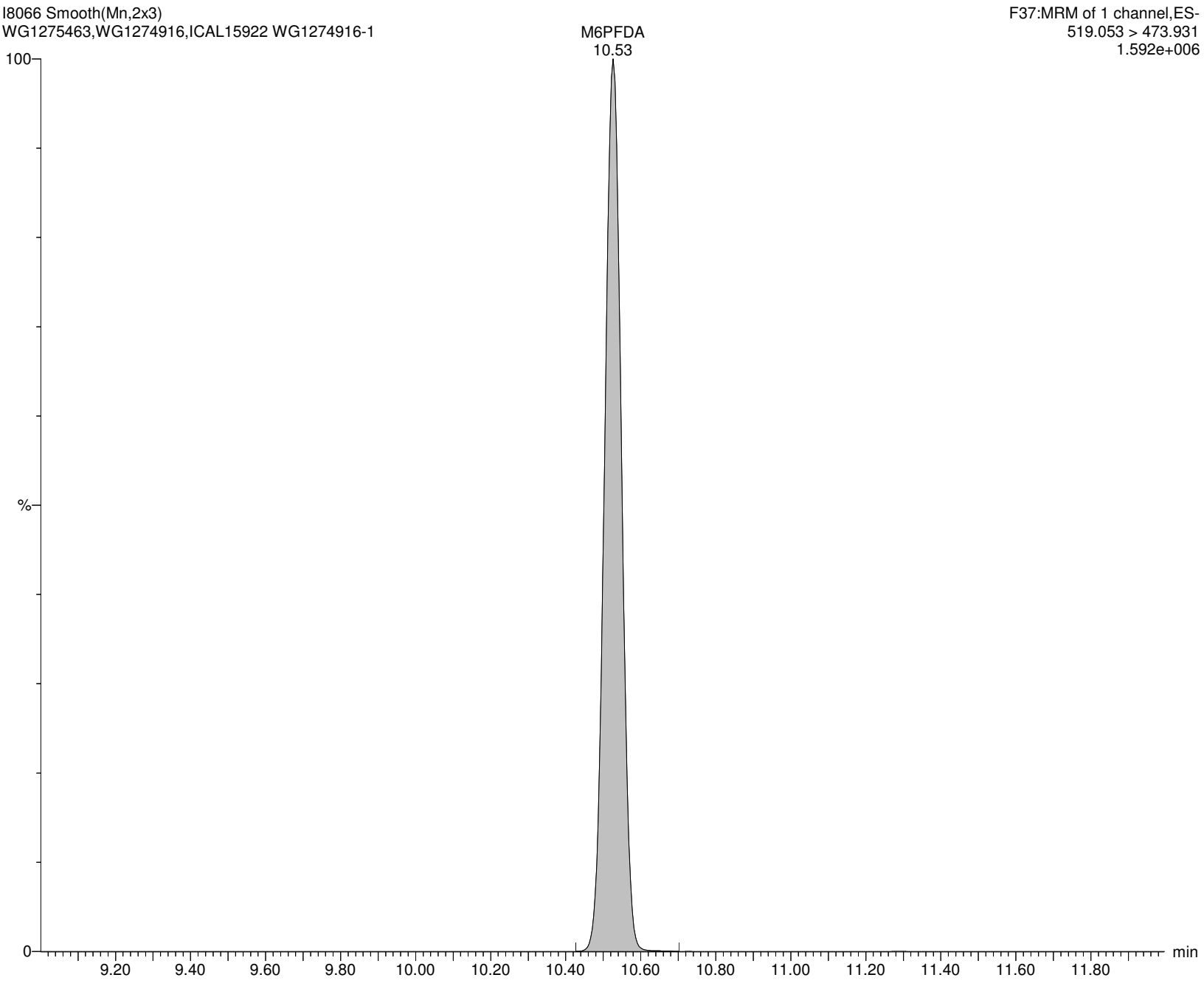


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, August 22, 2019 13:45:42 Eastern Daylight Time
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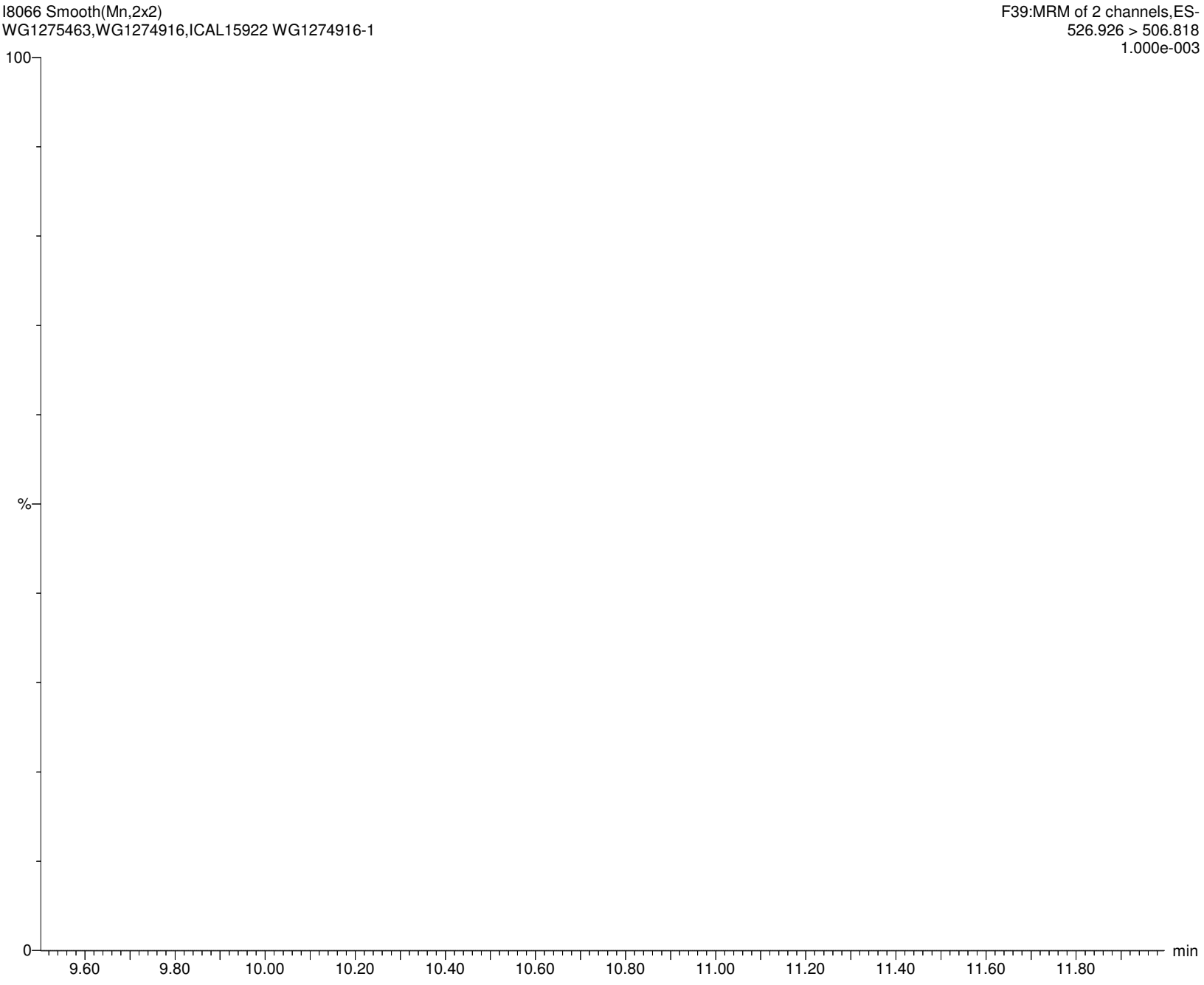


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, August 22, 2019 13:45:42 Eastern Daylight Time
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8:2FTS

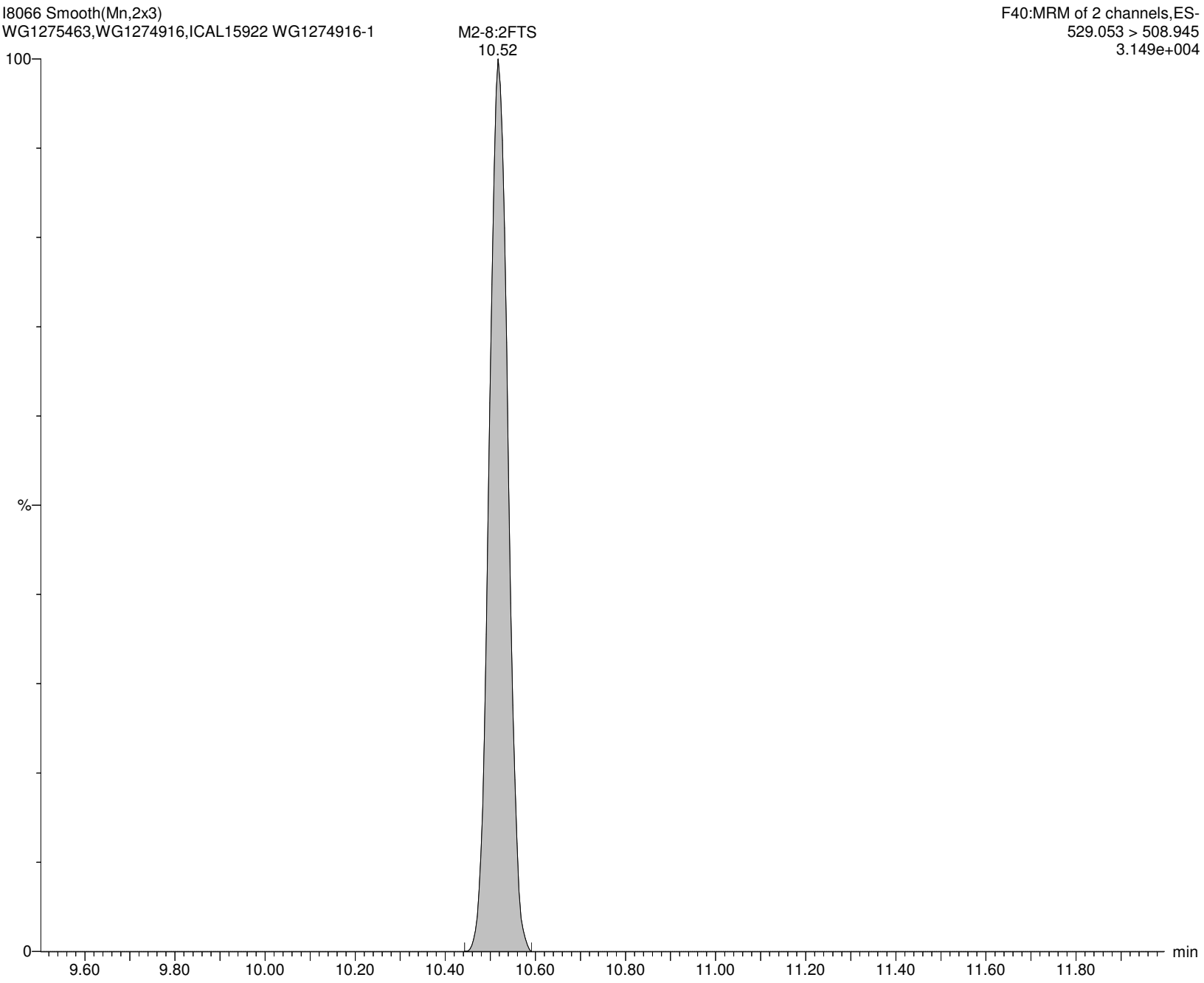


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
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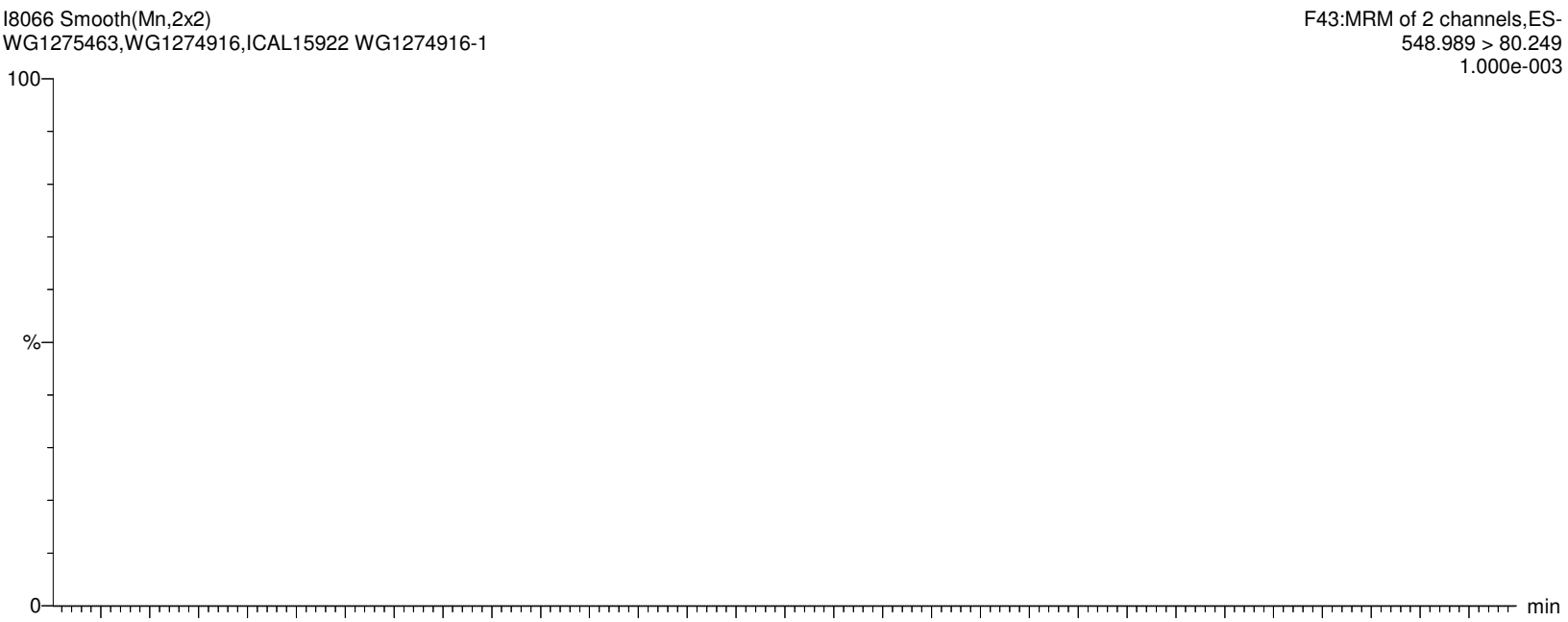


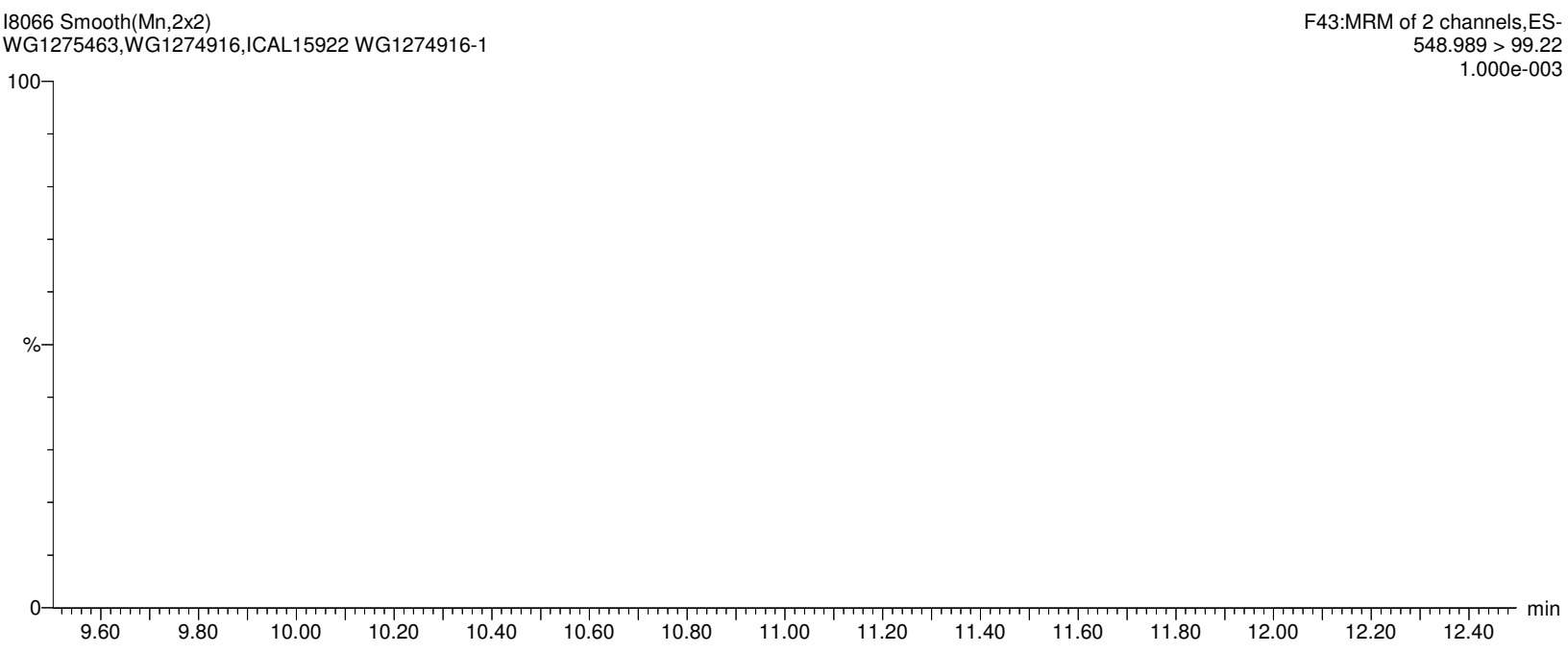
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
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PFNS



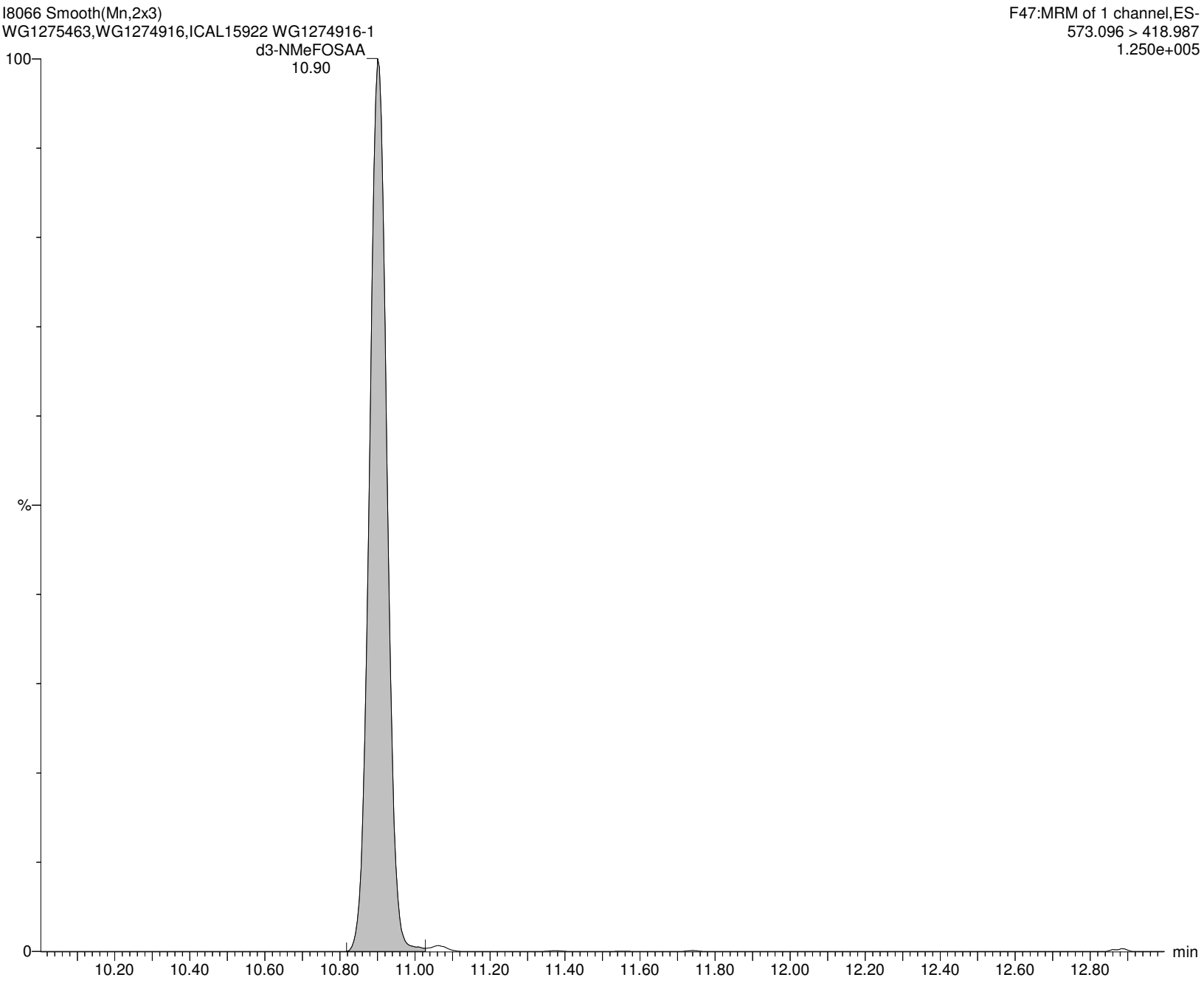


all concentration units in (ng/mL)

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d3-NMeFOSAA

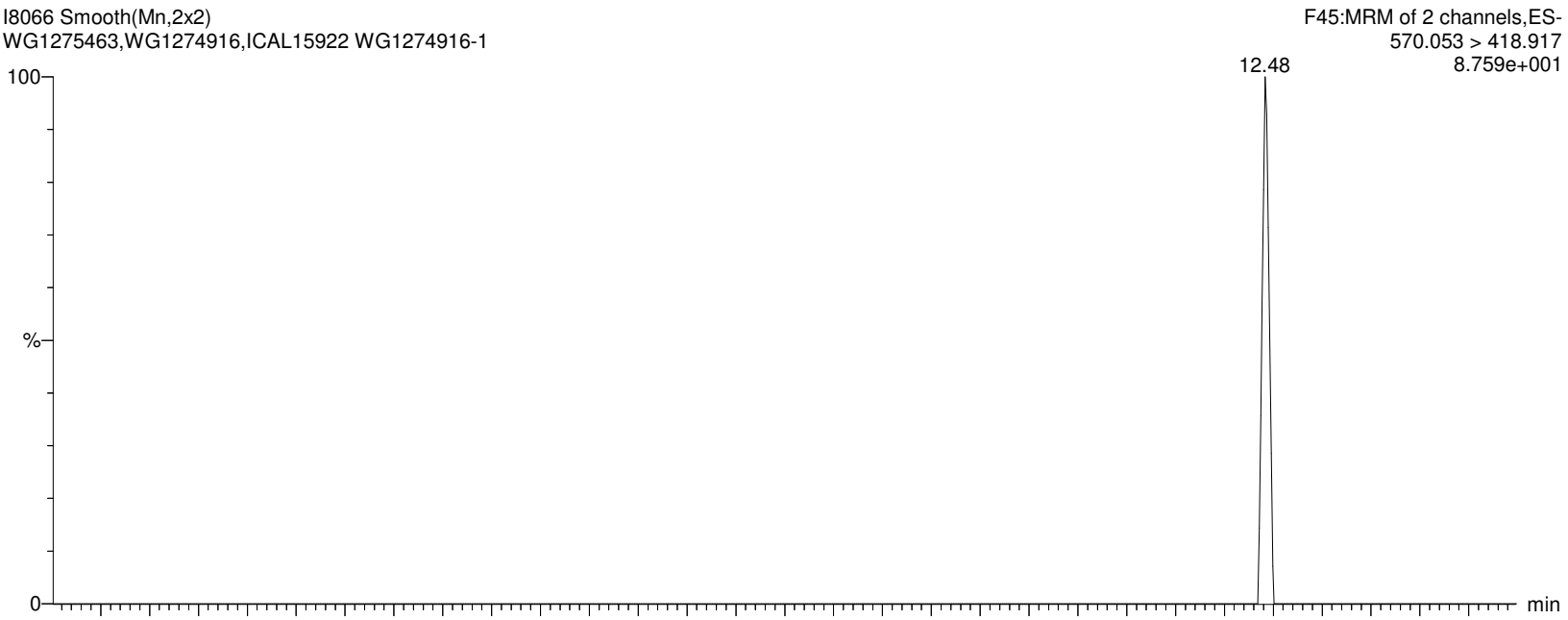


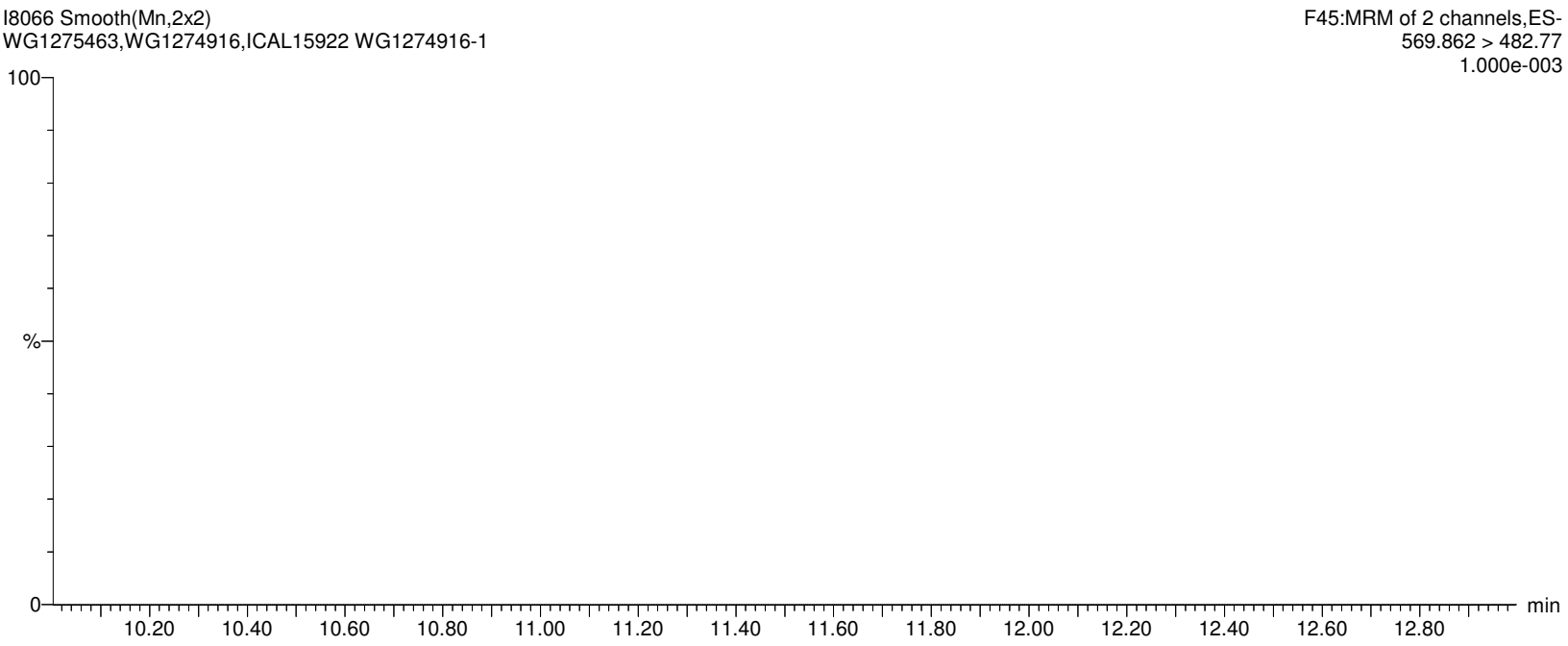
all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
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NMeFOSAA



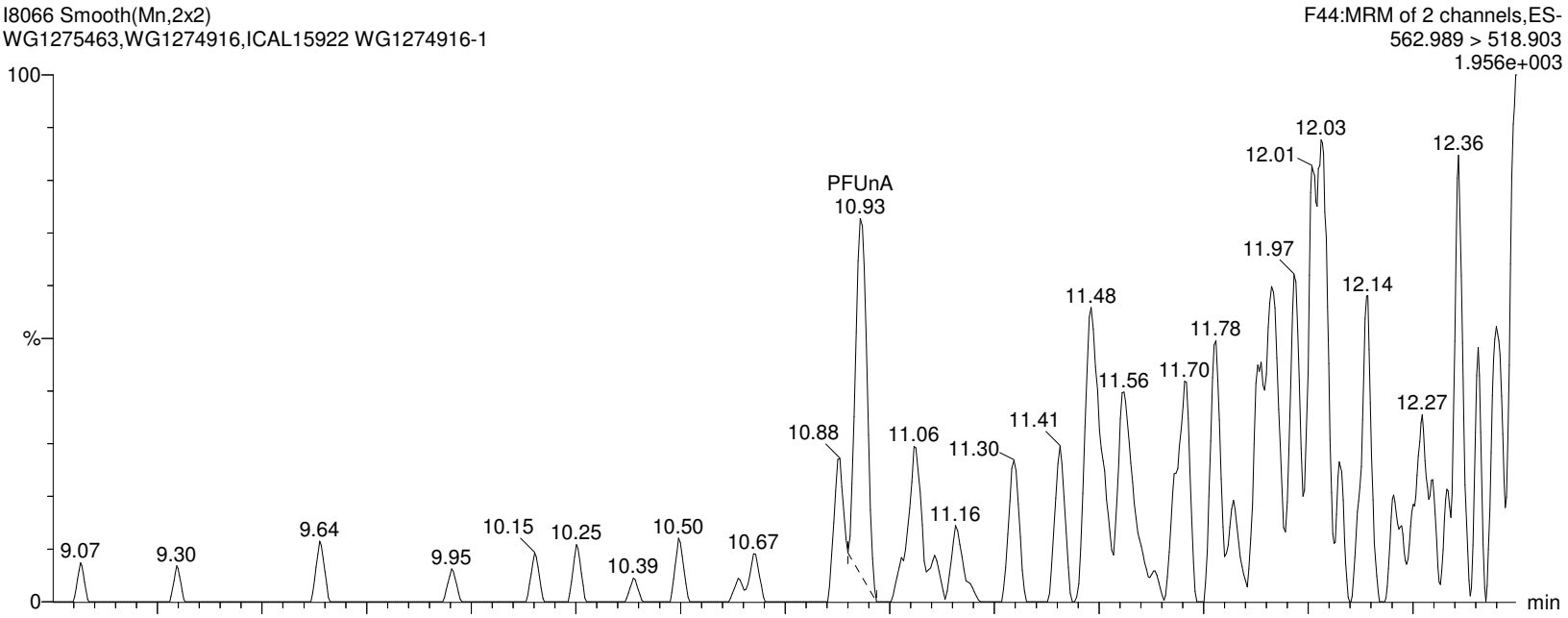


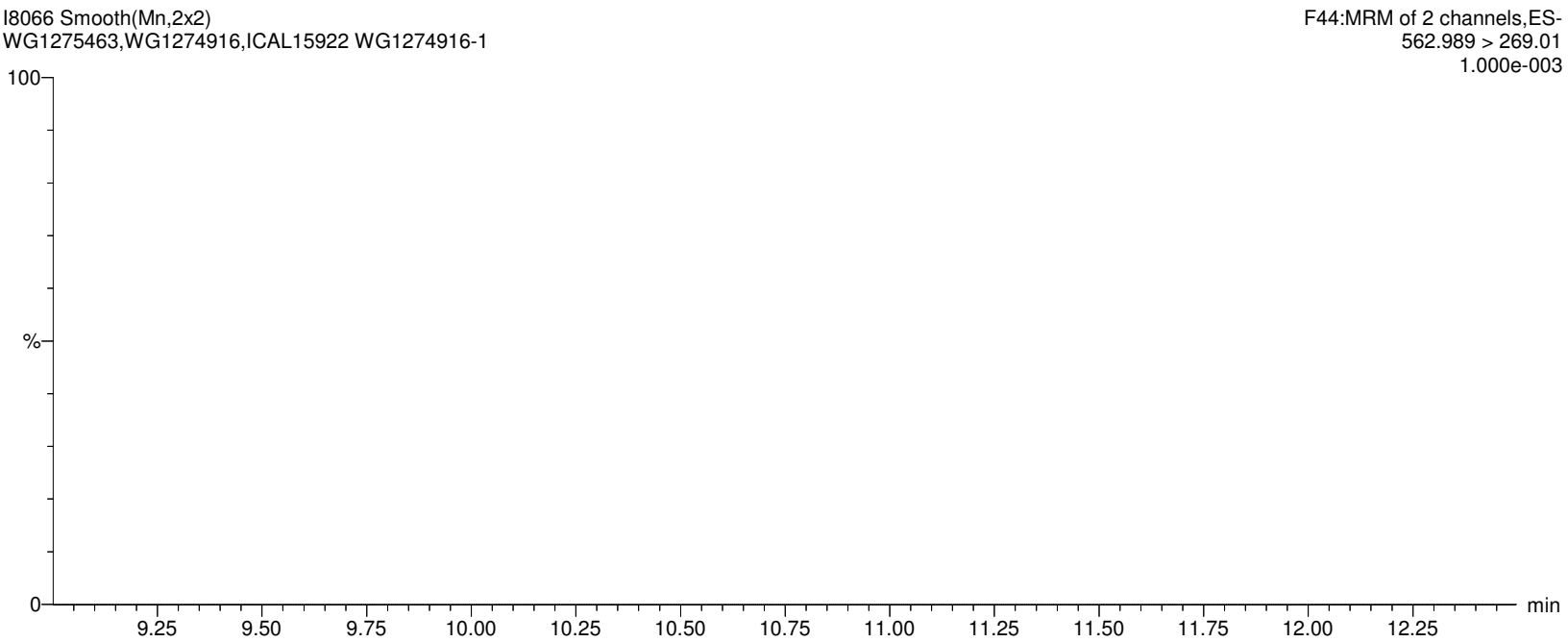
all concentration units in (ng/mL)

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PFUnA



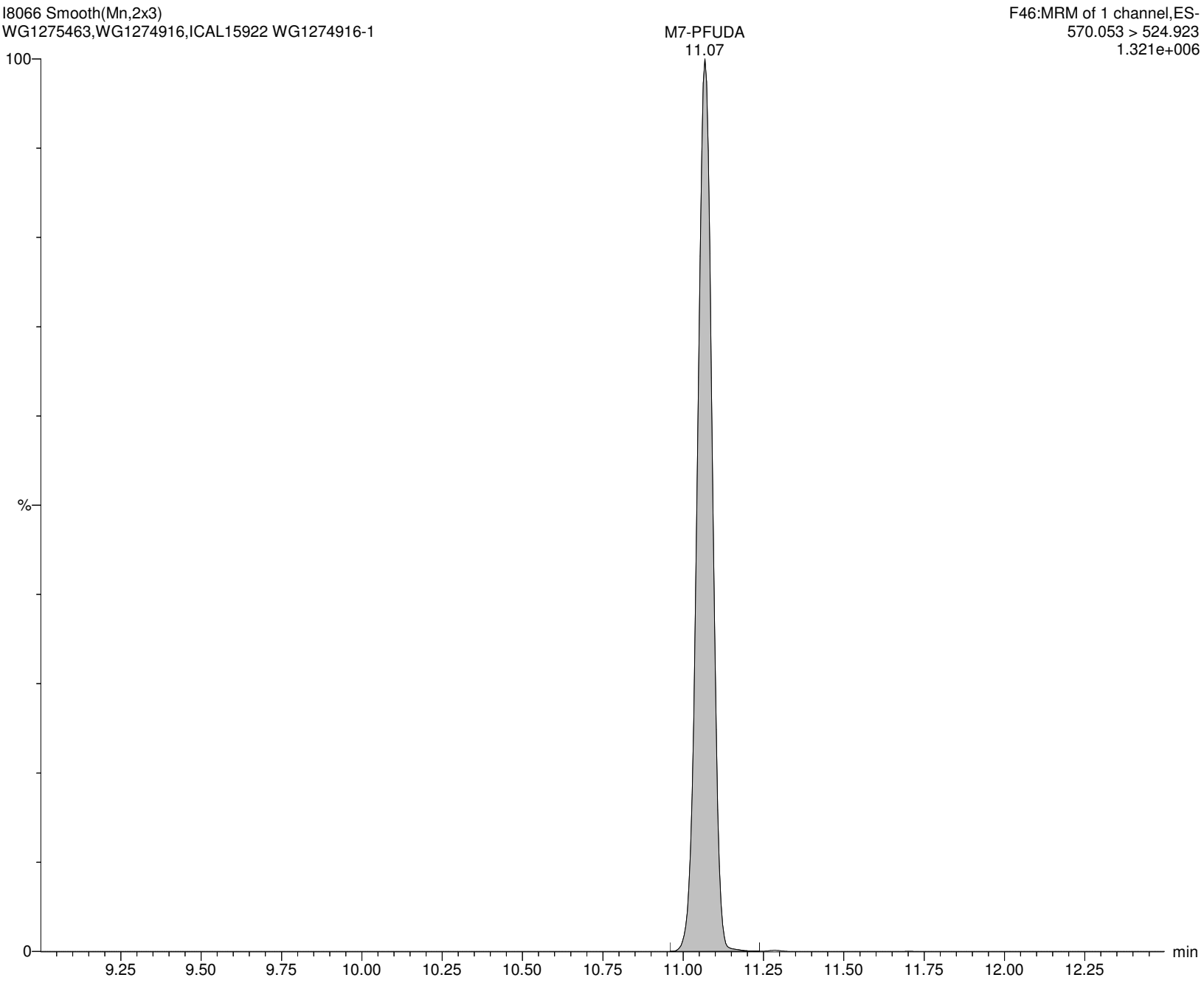


all concentration units in (ng/mL)

Alpha Analytical Inc.
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M7-PFUDA

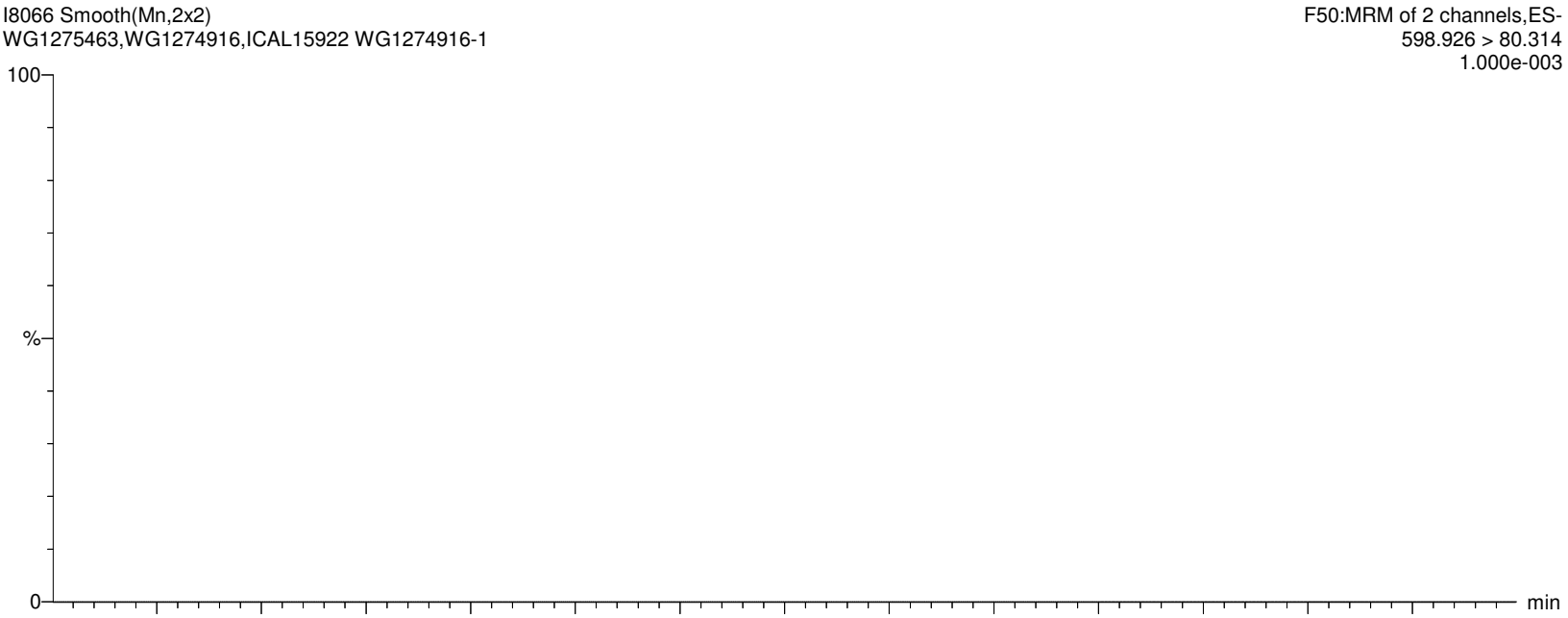


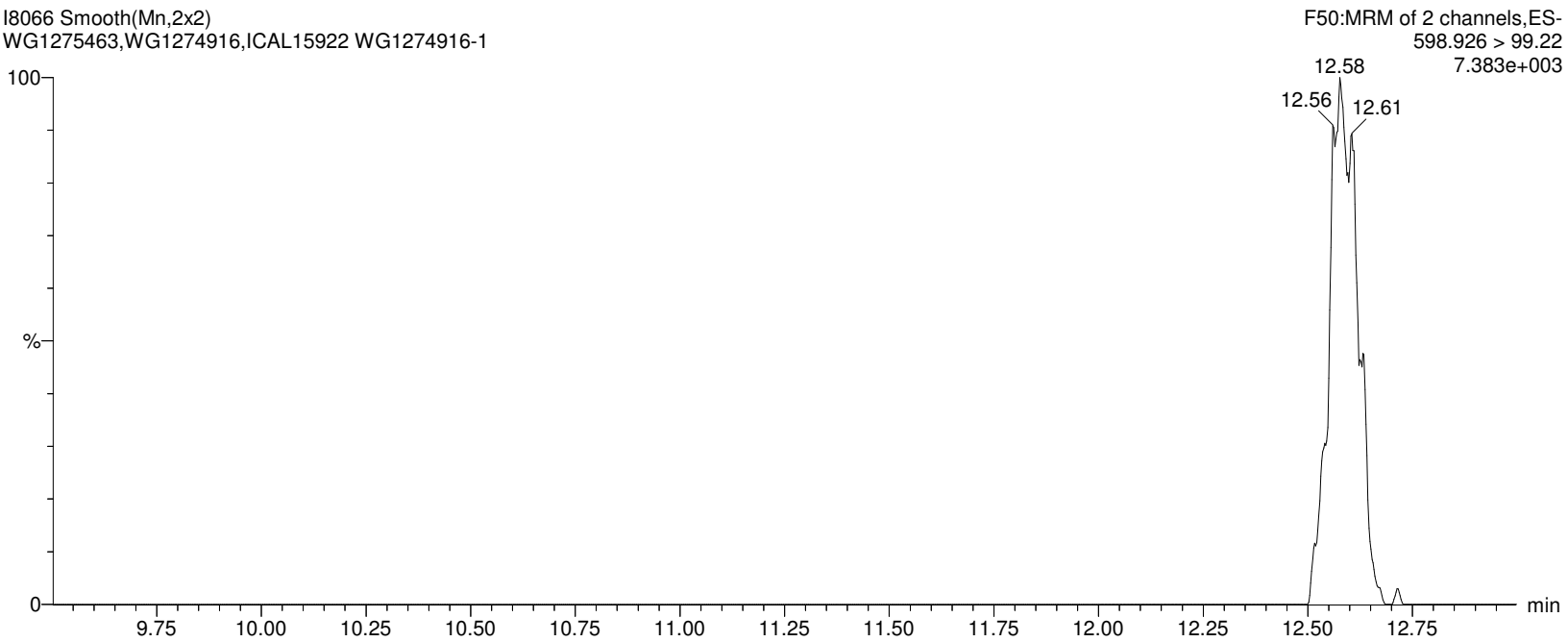
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
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PFDS



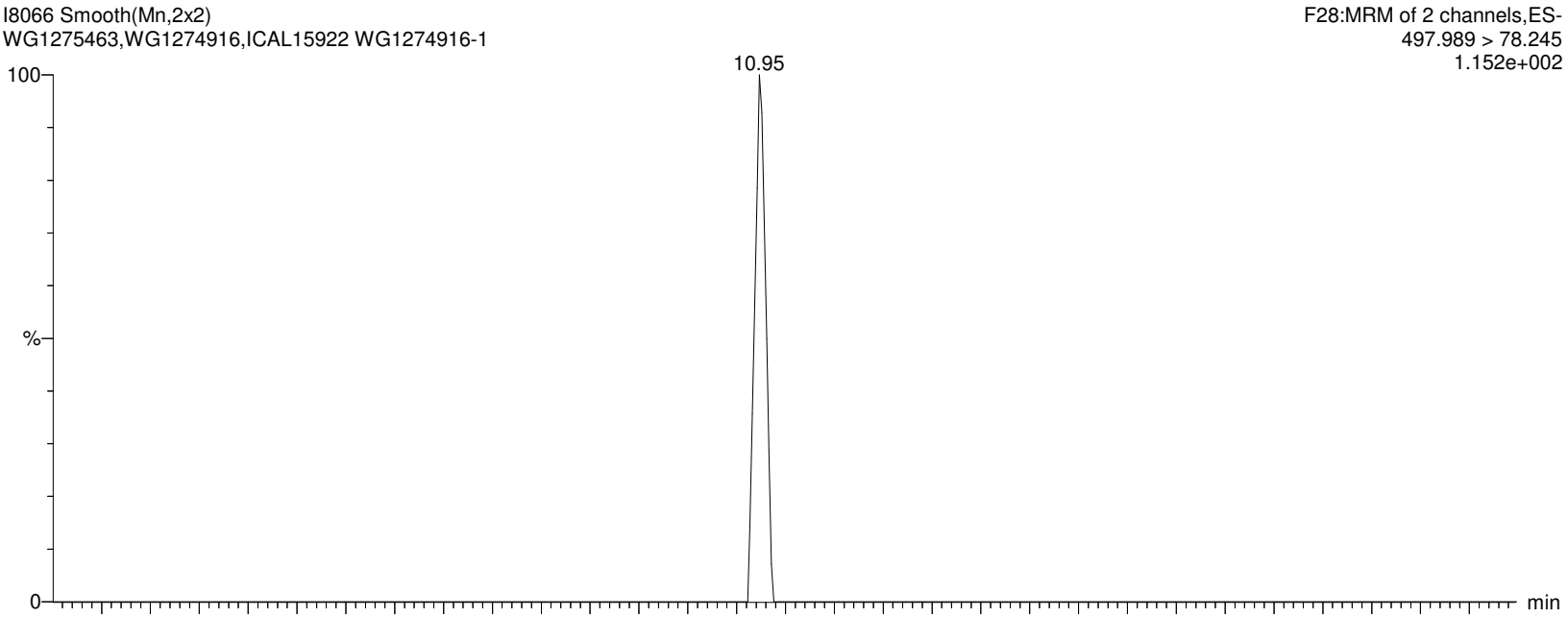


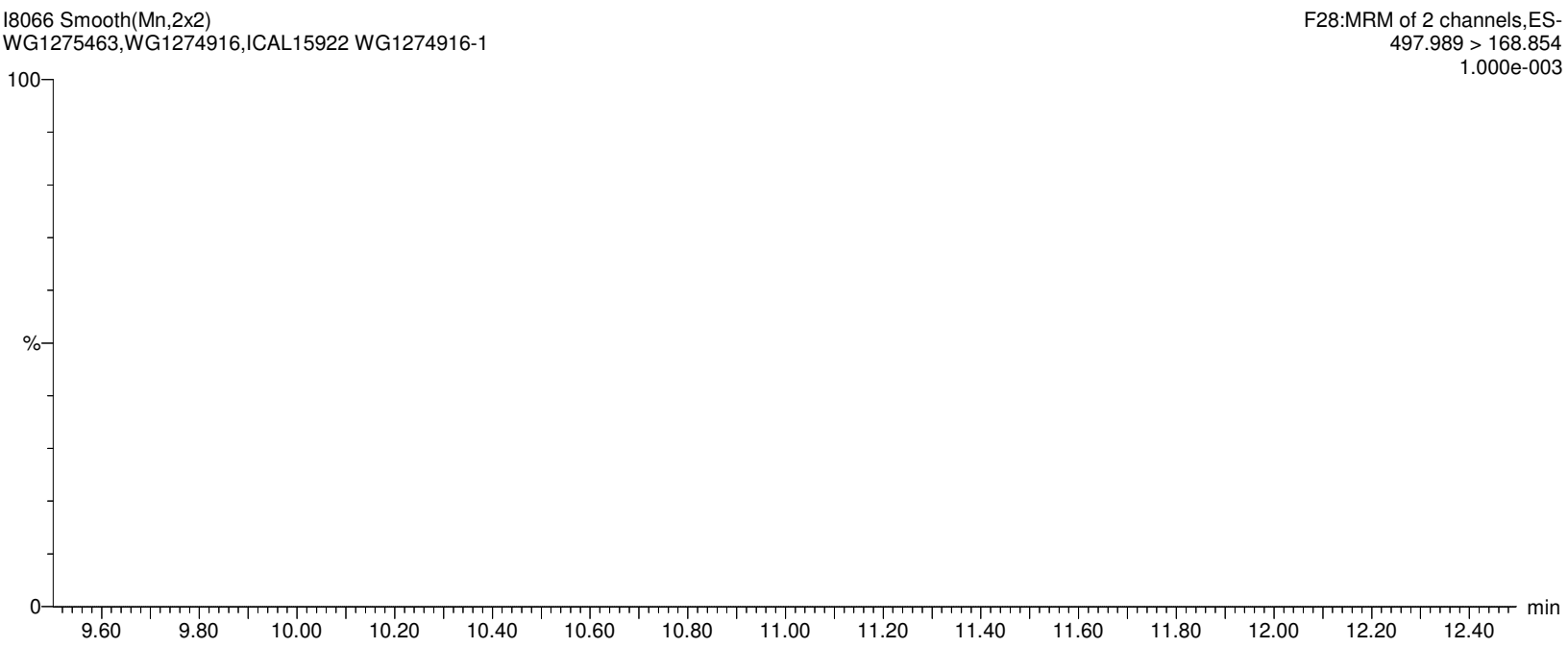
all concentration units in (ng/mL)

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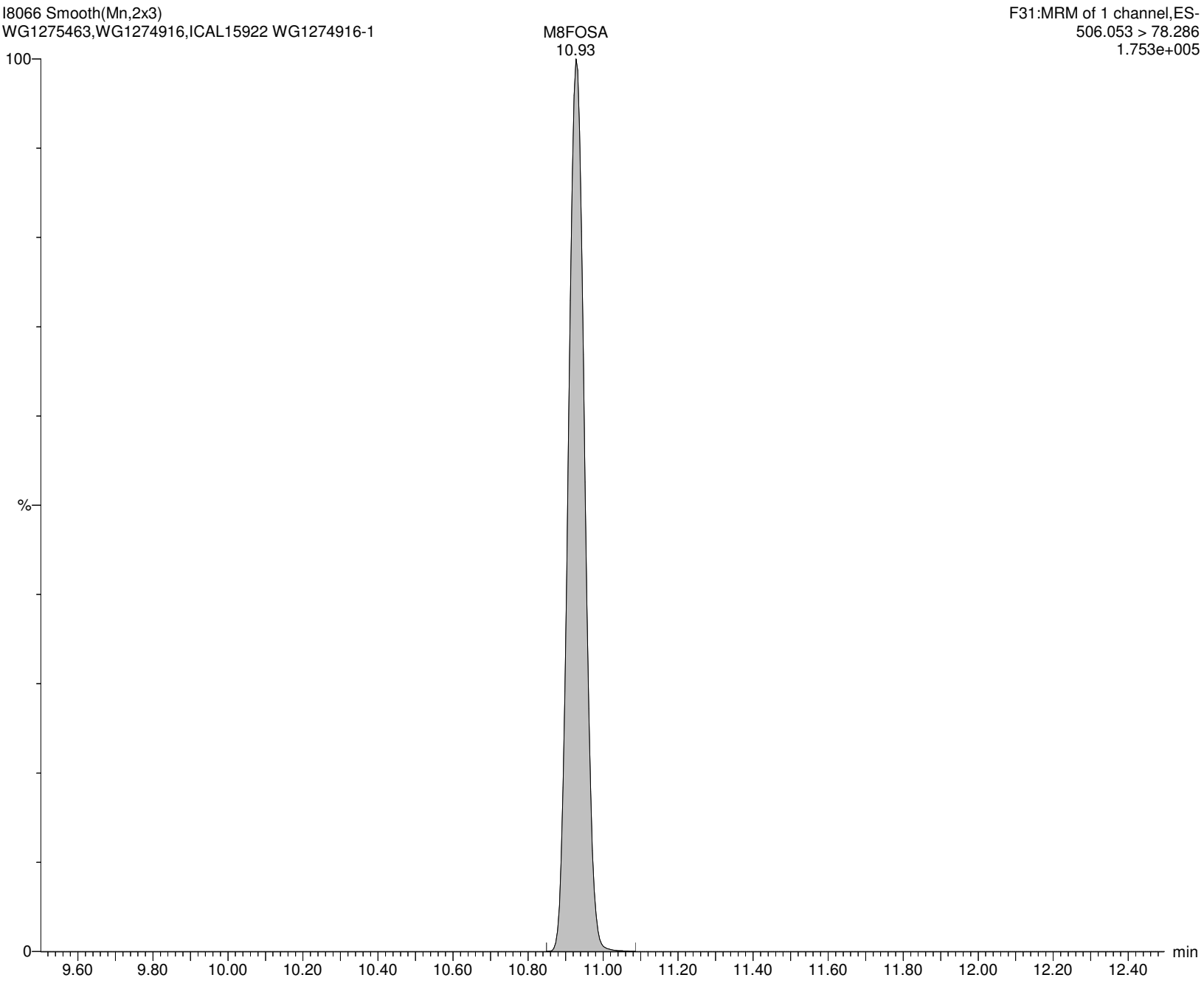


all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
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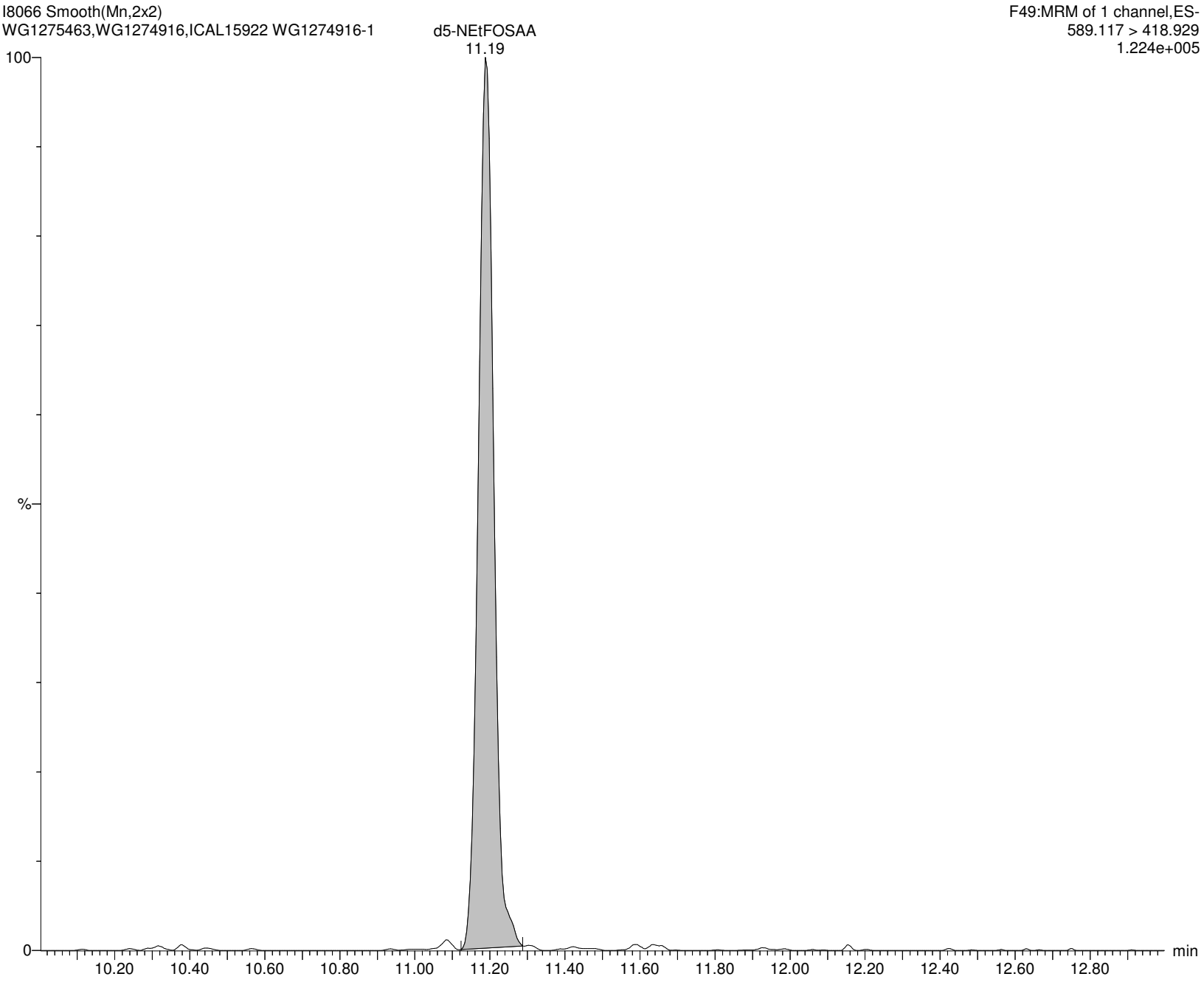


all concentration units in (ng/mL)

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d5-NEtFOSAA

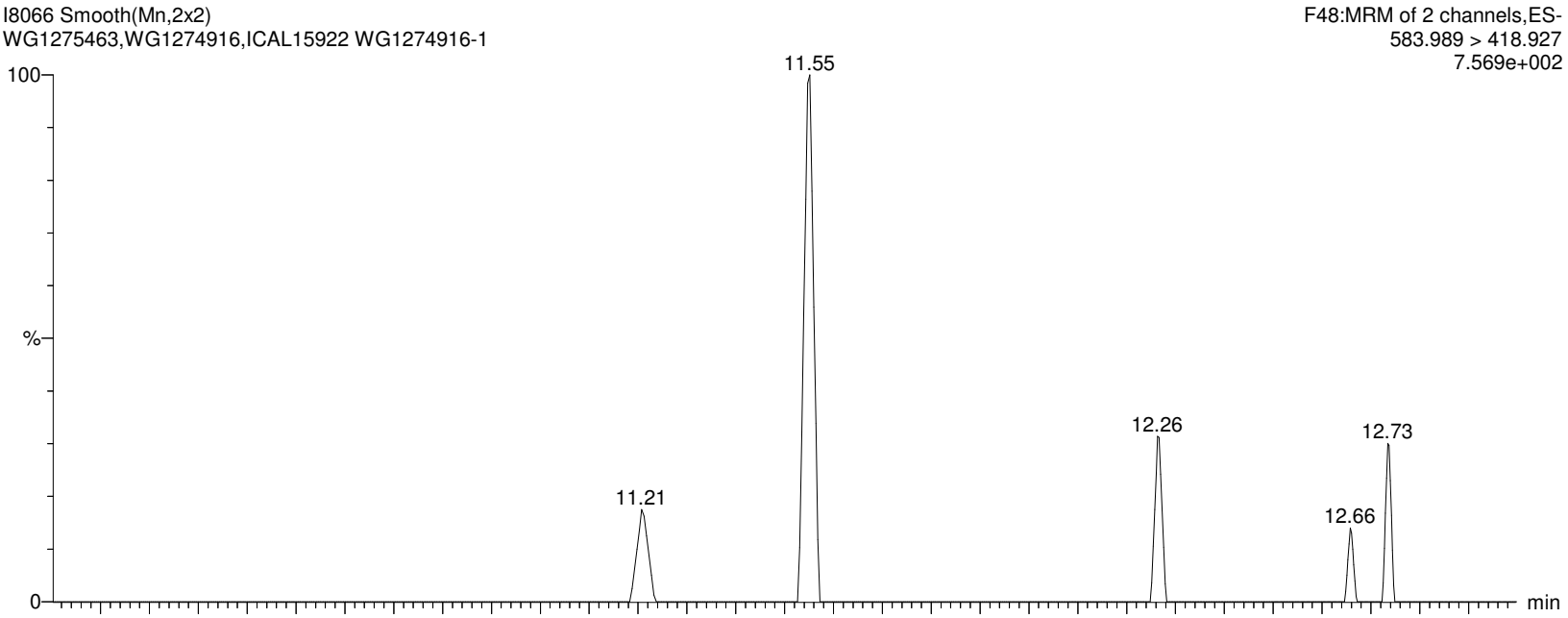


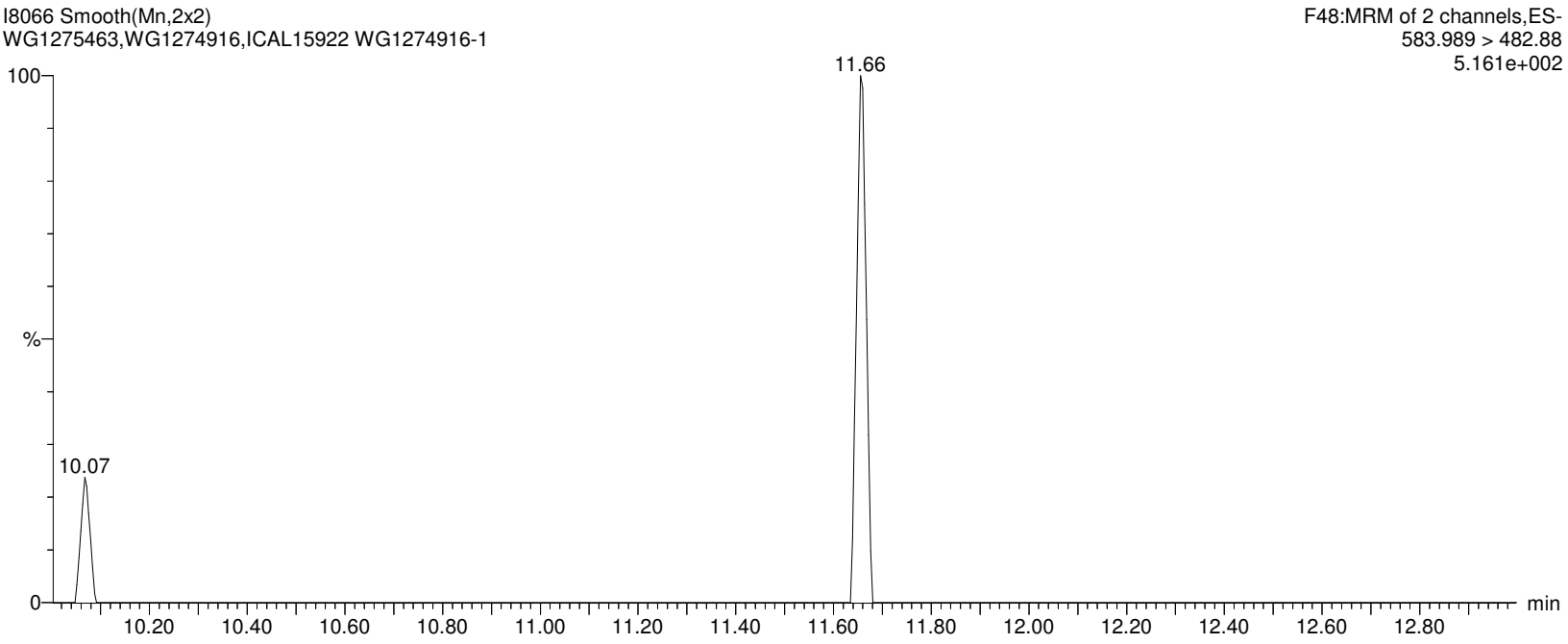
all concentration units in (ng/mL)

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NEtFOSAA



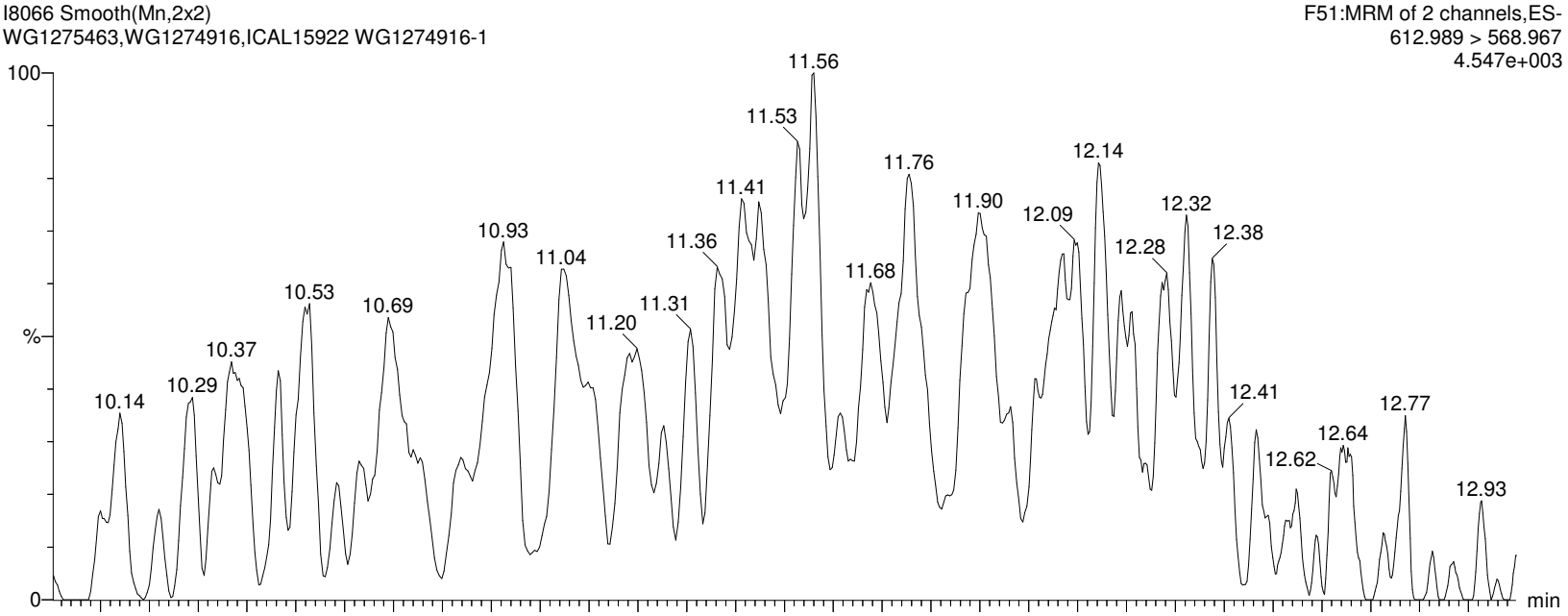


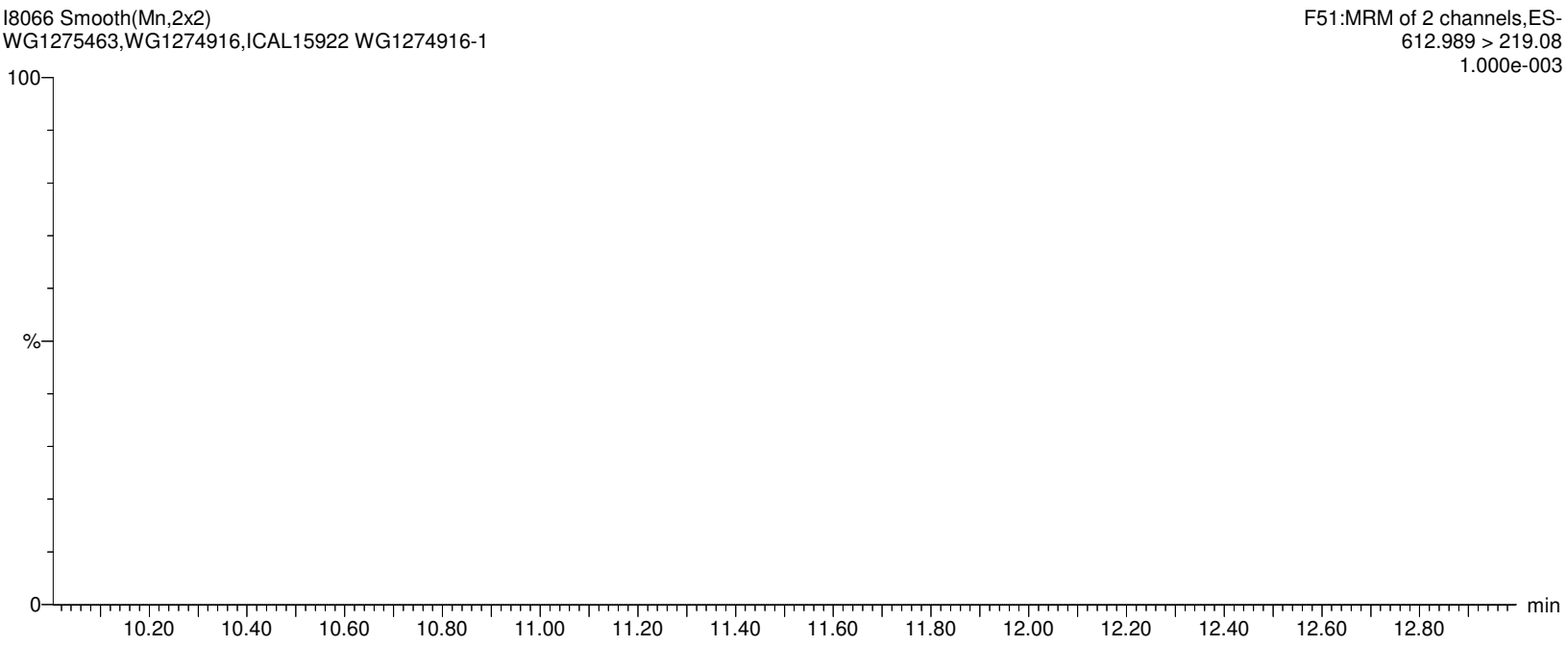
all concentration units in (ng/mL)

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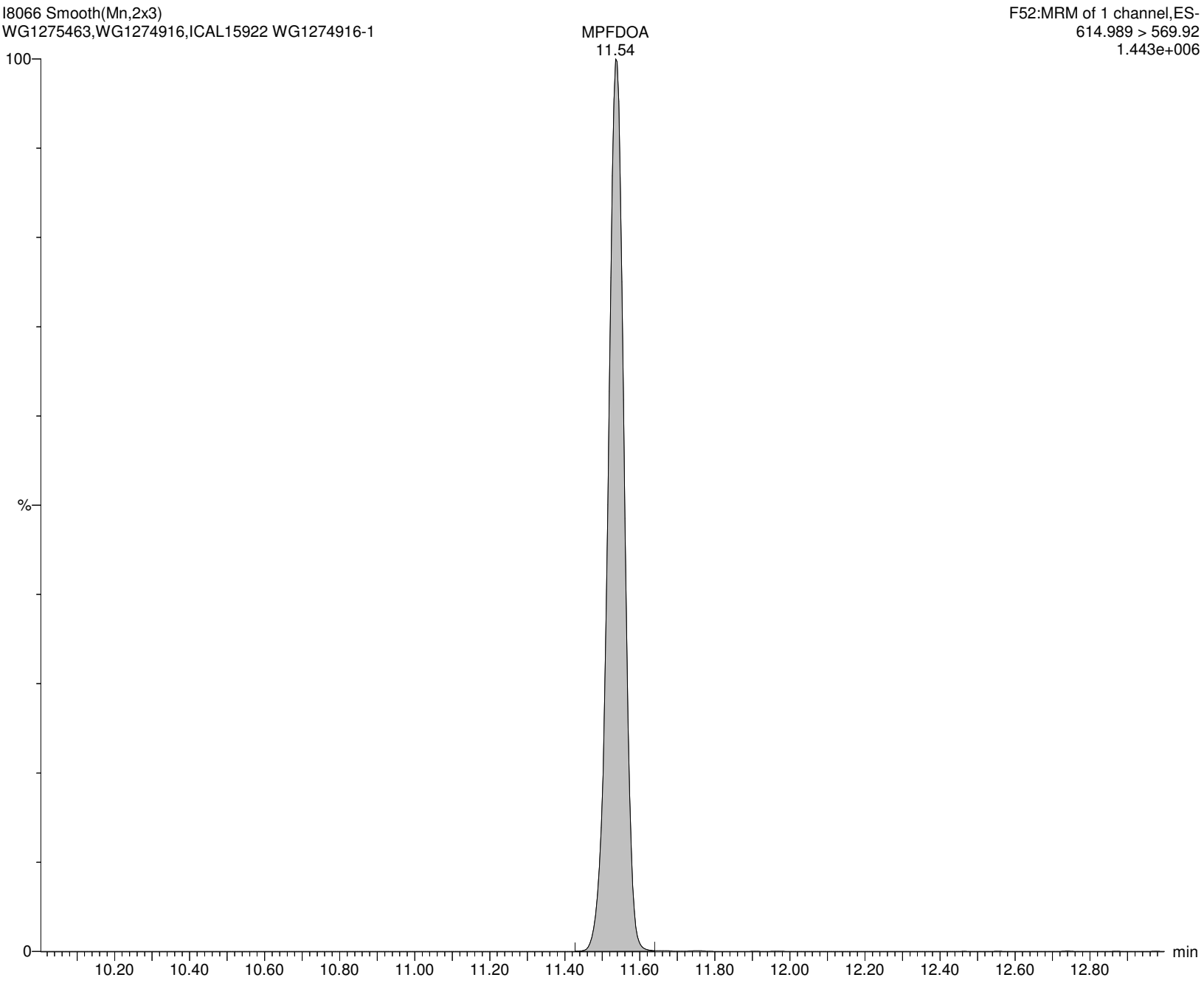


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MPFDOA

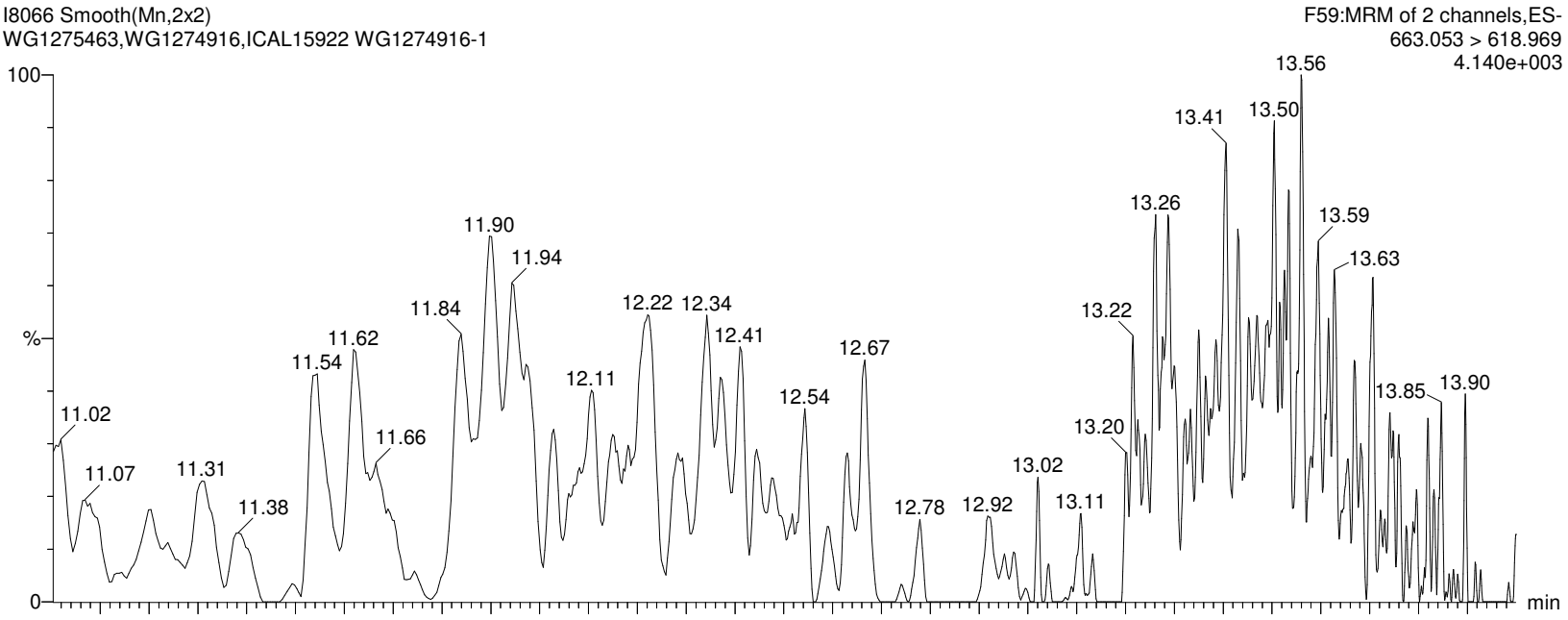


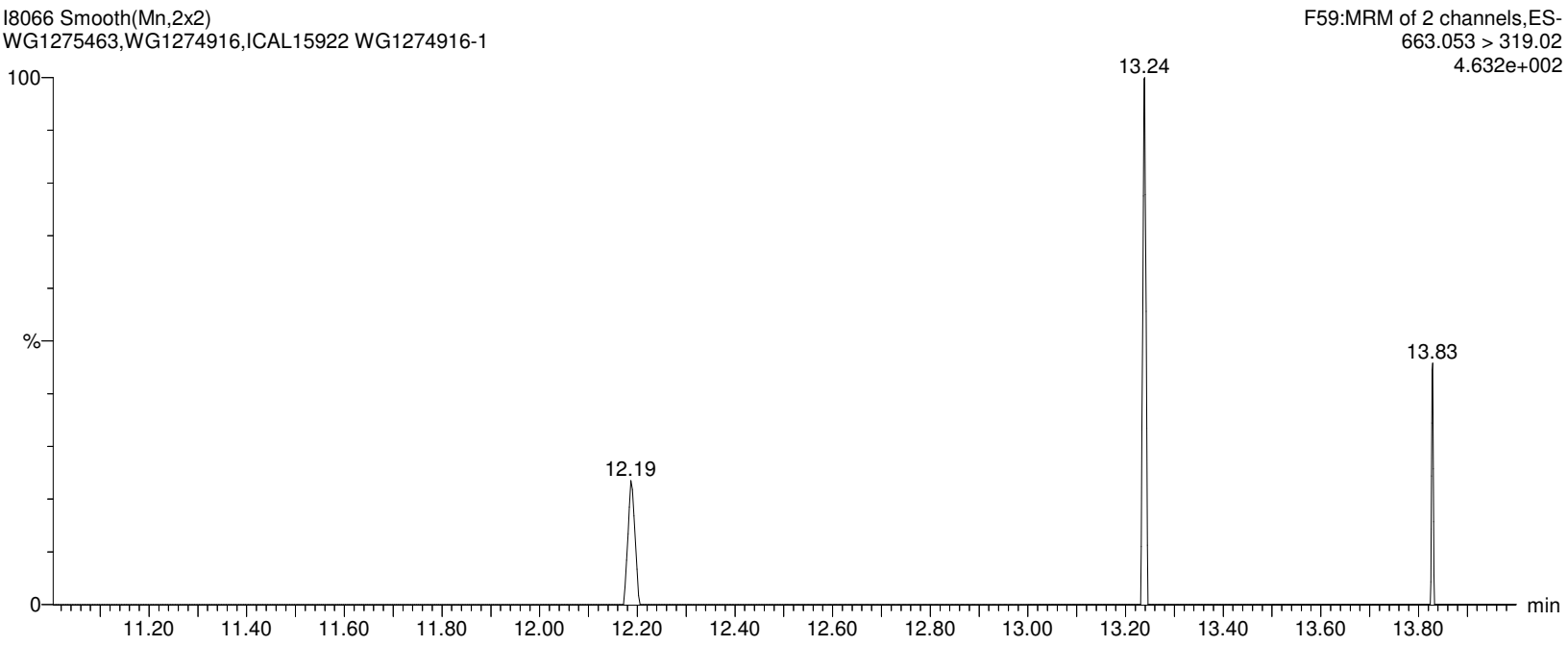
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
Last Altered: Thursday, August 22, 2019 13:45:42 Eastern Daylight Time
Printed: Thursday, August 22, 2019 13:49:27 Eastern Daylight Time

Name: I8066
ID: WG1274916-1
Date: 22-Aug-2019
Time: 11:44:01
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:B,6
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
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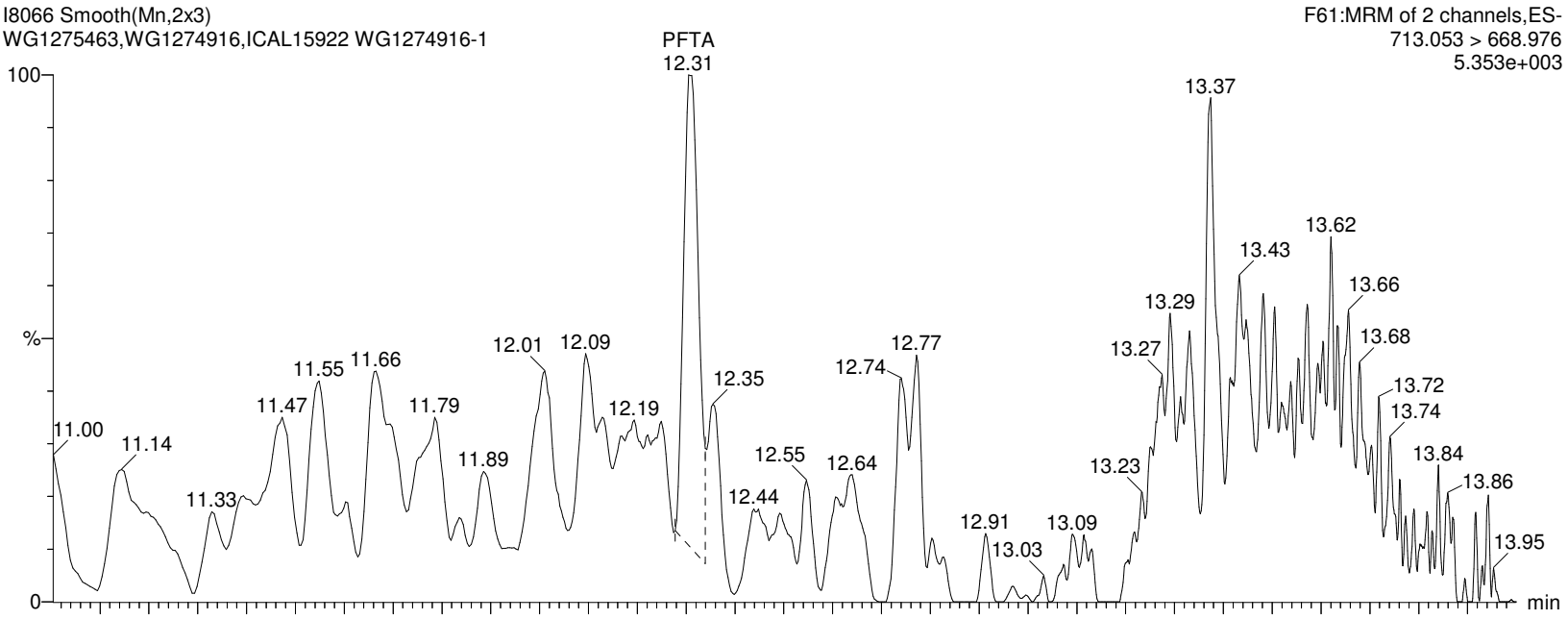


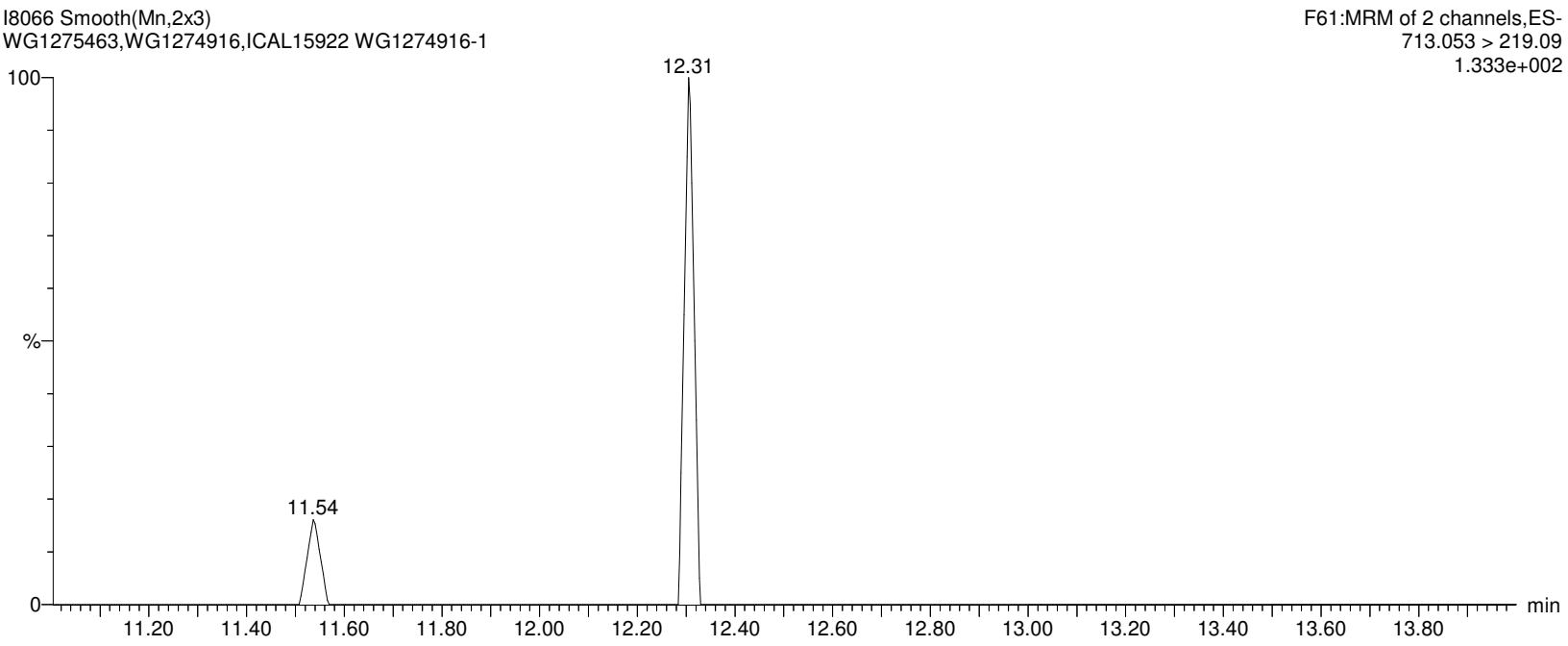
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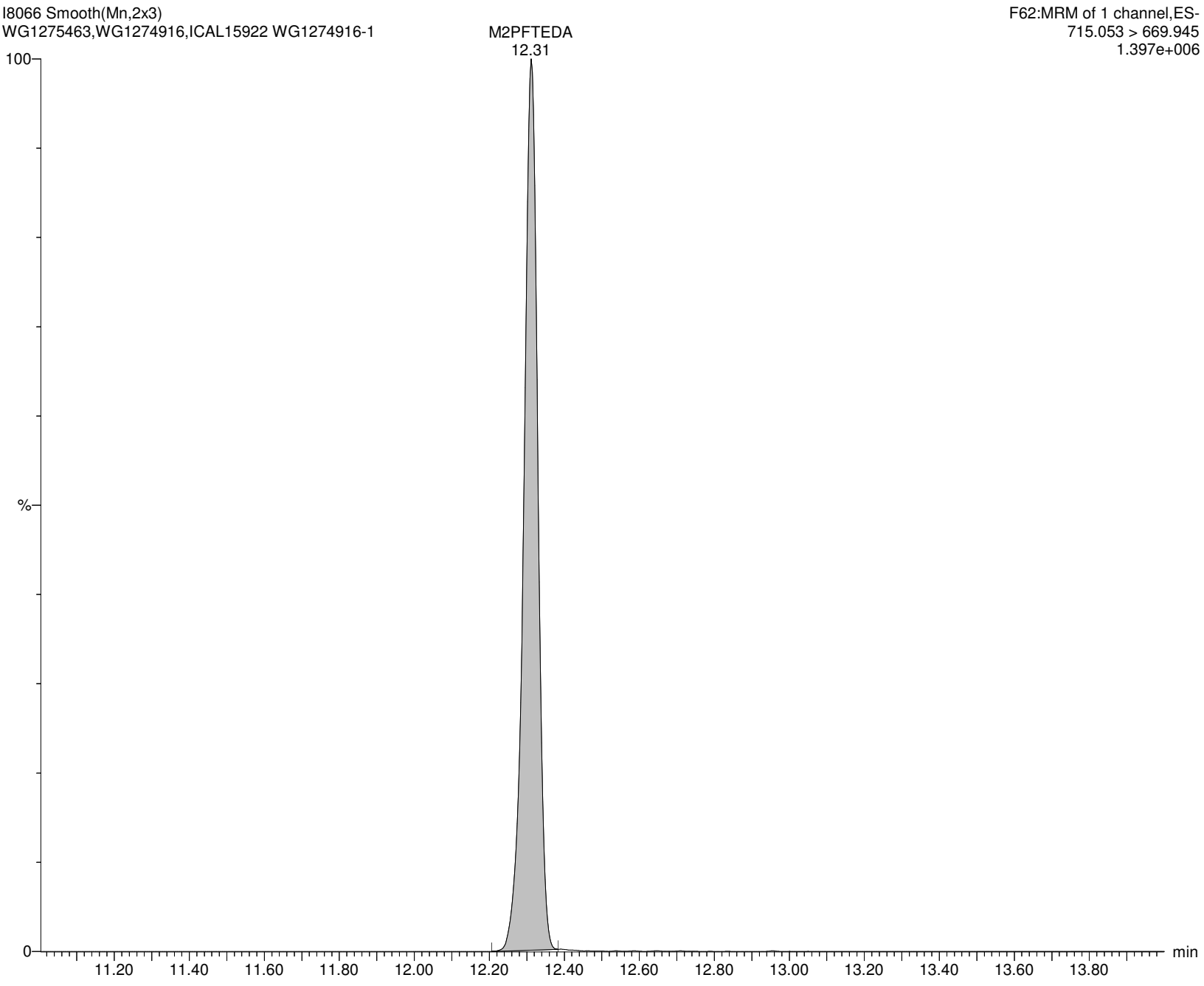


all concentration units in (ng/mL)

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M2PFTEDA



all concentration units in (ng/mL)

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Last Altered: Thursday, August 22, 2019 13:45:42 Eastern Daylight Time
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Method: C:\MassLynx\Data\2019\190822_537ISO.PRO\MethDB\537ISO_Q_190702_DODRT.mdb 07 Aug 2019 10:42:09
Calibration: C:\MassLynx\Data\2019\190822_537ISO.PRO\CurveDB\190702_ISO_ICAL.cdb 02 Jul 2019 11:07:37

ID: WG1274916-2
Name: I8067
Date: 22-Aug-2019
Time: 12:00:39
Description: WG1275463,WG1274916,ICAL15922
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.08	212.926 > 169.111	32672		10.693		na	106.9
2	M3PFBA	INT STD	2.08	215.926 > 172.122	32386		8.374		na	83.7
3	MPFBA	INT STD	2.08	216.926 > 172.137	33580		9.246		na	92.5
4	PFPeA	2706-90-3	4.98	262.926 > 219.002	56280		9.734		na	97.3
5	M5PFPEA	INT STD	4.98	267.989 > 223.081	56341		10.960		na	109.6
6	PFBS	375-73-5	5.65	298.926 > 79.923	10775		8.043	1.91	YES	90.9
7	M3PFBS	INT STD	5.65	301.989 > 80.254	9004		7.636		na	76.4
8	4:2FTS	757124-72-4	6.83	326.926 > 306.957	2951		10.699	2.20	NO	114.4
9	M2-4:2FTS	INT STD	6.83	329.117 > 309.079	2731		3.865		na	38.6
10	PFHxA	307-24-4	6.91	312.989 > 269.028	72743		10.766	18.56	NO	107.7
11	M5PFHxA	INT STD	6.91	317.989 > 273.045	68351		8.675		na	86.8
12	PFPeS	2706-91-4	7.23	348.926 > 80.251	9741		9.358	1.97	NO	99.6
13	PFHpA	375-85-9	8.20	362.926 > 319.014	93265		10.806	5.59	NO	108.1
14	M4PFHpA	INT STD	8.20	366.926 > 321.979	86563		8.623		na	86.2
15	br-PFHxS	355-46-4	8.13	398.926 > 80.295	1369	M5	2.403	2.49	NO	141.3
16	L-PFHxS	355-46-4	8.36	398.926 > 80.295	6468		8.177	1.39	YES	110.5
17	PFHxS	355-46-4		398.926 > 80.295	7837		10.580		na	
18	M3PFHxS	INT STD	8.36	401.926 > 80.317	5840		7.991		na	79.9
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1	9.15	412.989 > 368.9	86703		10.608	8.98	NO	106.1
21	M2PFOA	INT STD	9.15	415.032 > 369.968	93456		10.250		na	102.5
22	PFOA	335-67-1		412.989 > 368.9	86703		10.608		na	
23	M8PFOA	INT STD	9.15	420.989 > 375.979	82345		8.868		na	88.7
24	6:2FTS	27619-97-2	9.11	426.989 > 406.921	1940		10.148	8.43	NO	106.8
25	M2-6:2FTS	INT STD	9.11	428.989 > 408.917	2435		3.824		na	38.2
26	PFHpS	375-92-8	9.25	448.926 > 80.257	5209		8.578	0.90	NO	90.3
27	PFNA	375-95-1	9.91	462.989 > 418.931	76868		9.988	4.20	NO	99.9
28	M9PFNA	INT STD	9.91	472.053 > 426.947	84831		9.866		na	98.7
29	br-PFOS	1763-23-1	9.70	498.989 > 80.294	2144	M5	2.282	19.63	NO	114.1
30	L-PFOS	1763-23-1	9.96	498.989 > 80.294	6482		7.430	1.49	NO	101.8
31	PFOS	1763-23-1		498.989 > 80.294	8626		9.712		na	
32	M4PFOS	INT STD	9.96	503.032 > 80.306	8859		11.911		na	119.1
33	M8PFOS	INT STD	9.96	507.053 > 80.294	8464		8.871		na	88.7
34	PFDA	335-76-2	10.54	513.053 > 468.906	74719		10.927	5.82	NO	109.3
35	M2PFDA	INT STD	10.54	515.053 > 469.934	78542		10.981		na	109.8
36	M6PFDA	INT STD	10.53	519.053 > 473.931	75628		8.612		na	86.1
37	8:2FTS	39108-34-4	10.52	526.926 > 506.818	1491		9.093		na	94.7
38	M2-8:2FTS	INT STD	10.53	529.053 > 508.945	1554		4.446		na	44.5
39	PFNS	68259-12-1	10.57	548.989 > 80.249	7463		8.877	1.32	NO	92.5

all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
Last Altered: Thursday, August 22, 2019 13:45:42 Eastern Daylight Time
Printed: Thursday, August 22, 2019 13:49:28 Eastern Daylight Time

ID: WG1274916-2
Name: I8067
Date: 22-Aug-2019
Time: 12:00:39
Description: WG1275463,WG1274916,ICAL15922
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.91	573.096 > 418.987	6105		7.006		na	70.1
41	NMeFOSAA	2355-31-9	10.91	570.053 > 418.917	6903		11.131	3.22	NO	111.3
42	PFUnA	2058-94-8	11.07	562.989 > 518.903	70505		10.320	7.41	NO	103.2
43	M7-PFUDA	INT STD	11.07	570.053 > 524.923	66527		8.567		na	85.7
44	PFDS	335-77-3	11.09	598.926 > 80.314	6045		9.695	1.10	YES	100.5
45	FOSA	754-91-6	10.93	497.989 > 78.245	10585		8.810		YES	88.1
46	M8FOSA	INT STD	10.93	506.053 > 78.286	10462		4.003		na	40.0
47	d5-NEtFOSAA	INT STD	11.19	589.117 > 418.929	5362		6.790		na	67.9
48	NEtFOSAA	2991-50-6	11.20	583.989 > 418.927	5499		10.142	2.72	NO	101.4
49	PFDoA	307-55-1	11.54	612.989 > 568.967	71145		10.796	14.43	NO	108.0
50	MPFDOA	INT STD	11.54	614.989 > 569.92	68671		7.987		na	79.9
51	PFTrDA	72629-94-8	11.96	663.053 > 618.969	69142		11.173	12.09	NO	111.7
52	PFTA	376-06-7	12.31	713.053 > 668.976	54534		10.852	9.30	NO	108.5
53	M2PFTEDA	INT STD	12.31	715.053 > 669.945	57781		7.954		na	79.5

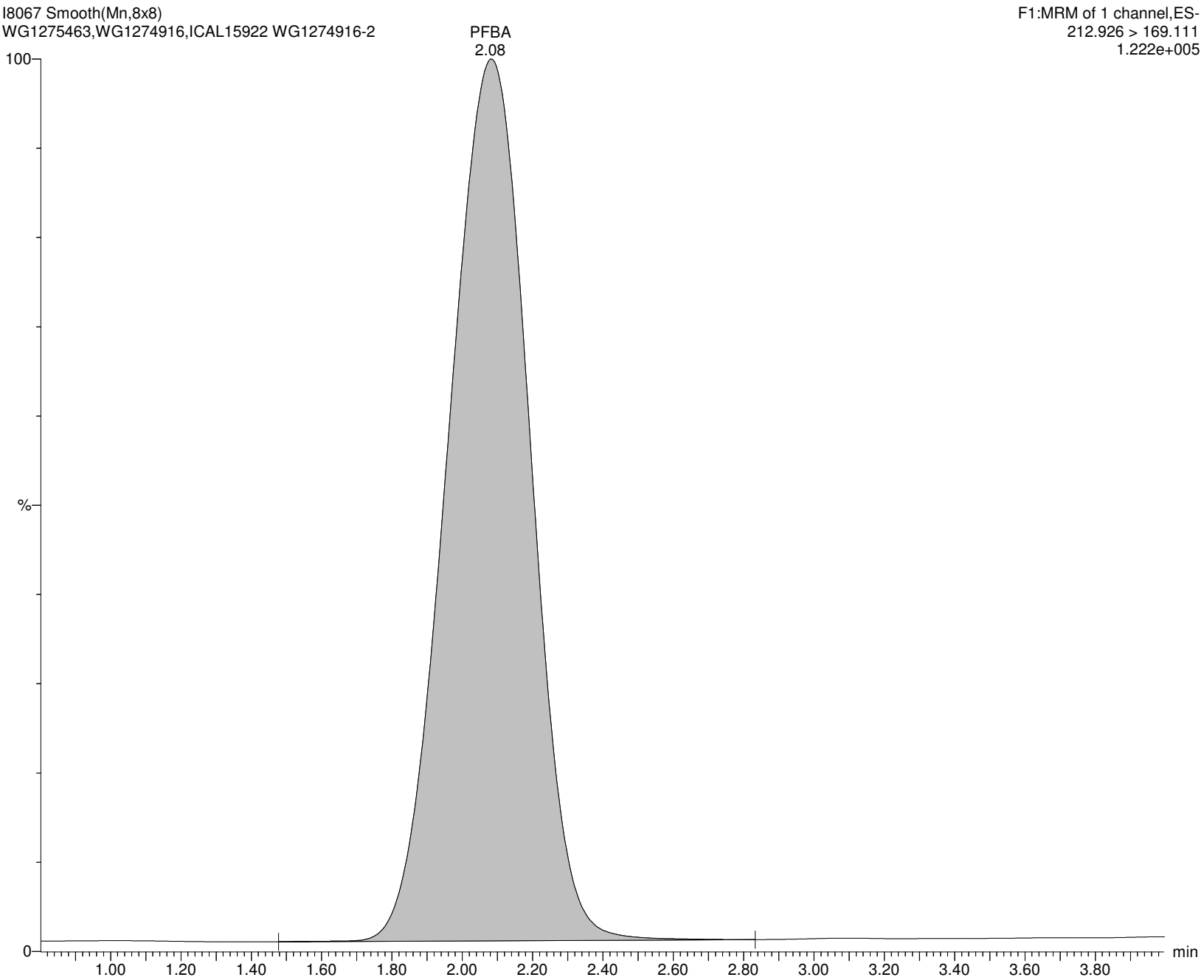
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, August 22, 2019 13:45:42 Eastern Daylight Time
Printed: Thursday, August 22, 2019 13:49:28 Eastern Daylight Time

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Name: I8067
ID: WG1274916-2
Date: 22-Aug-2019
Time: 12:00:39
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User: LCMS02:JW
Vial: 1:B,7
Instrument: XEVO-TQSmicro#QEB0050
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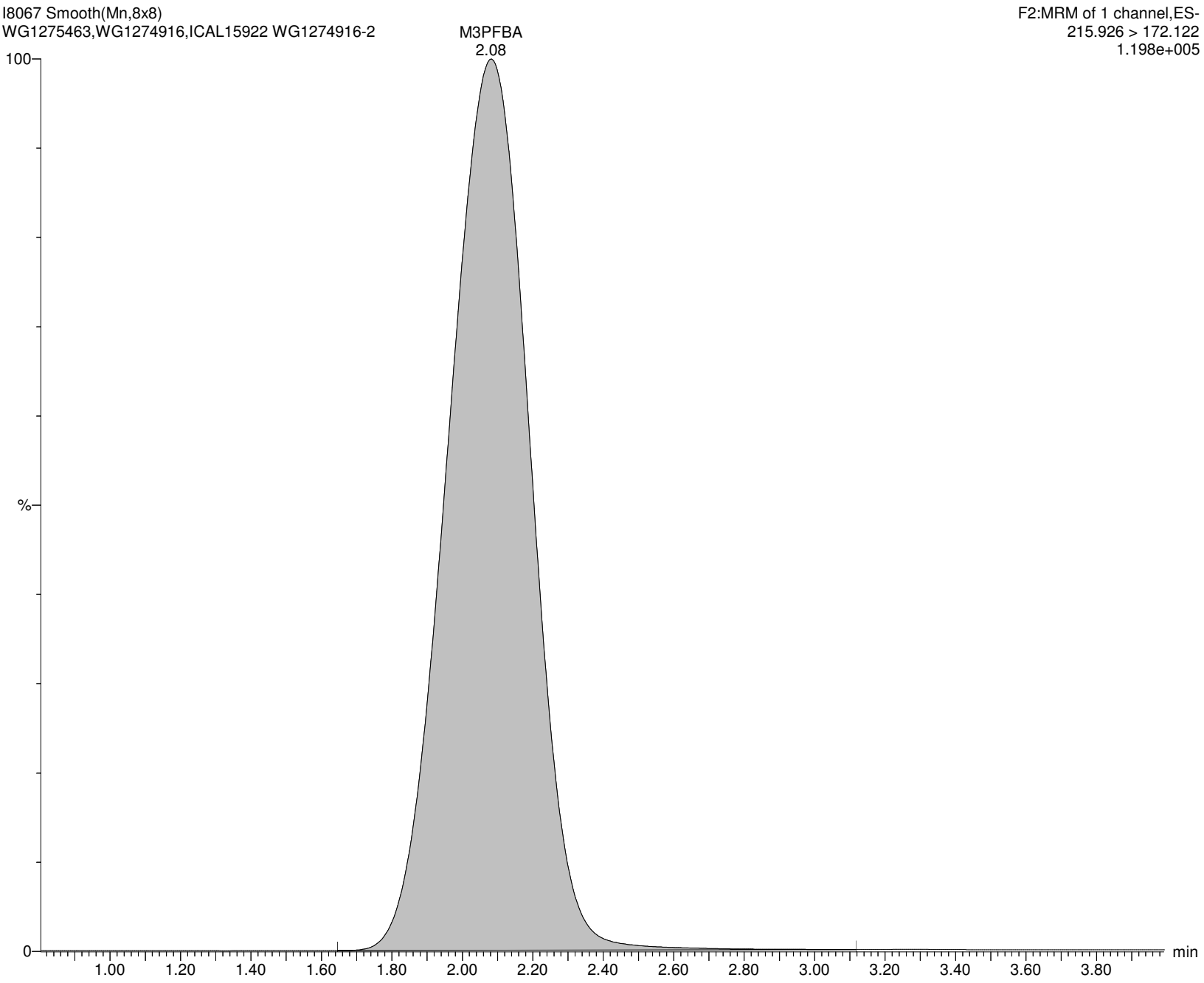


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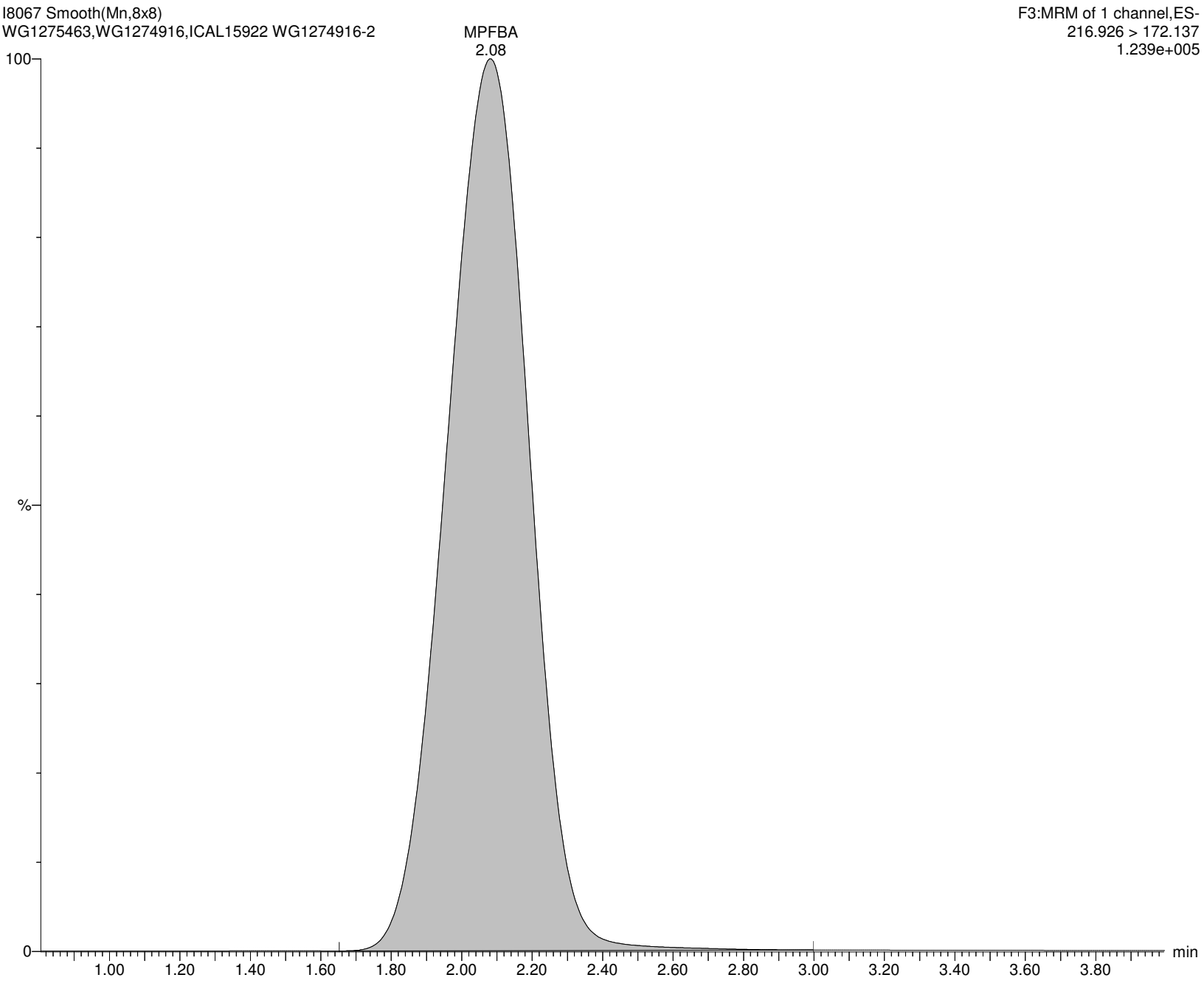


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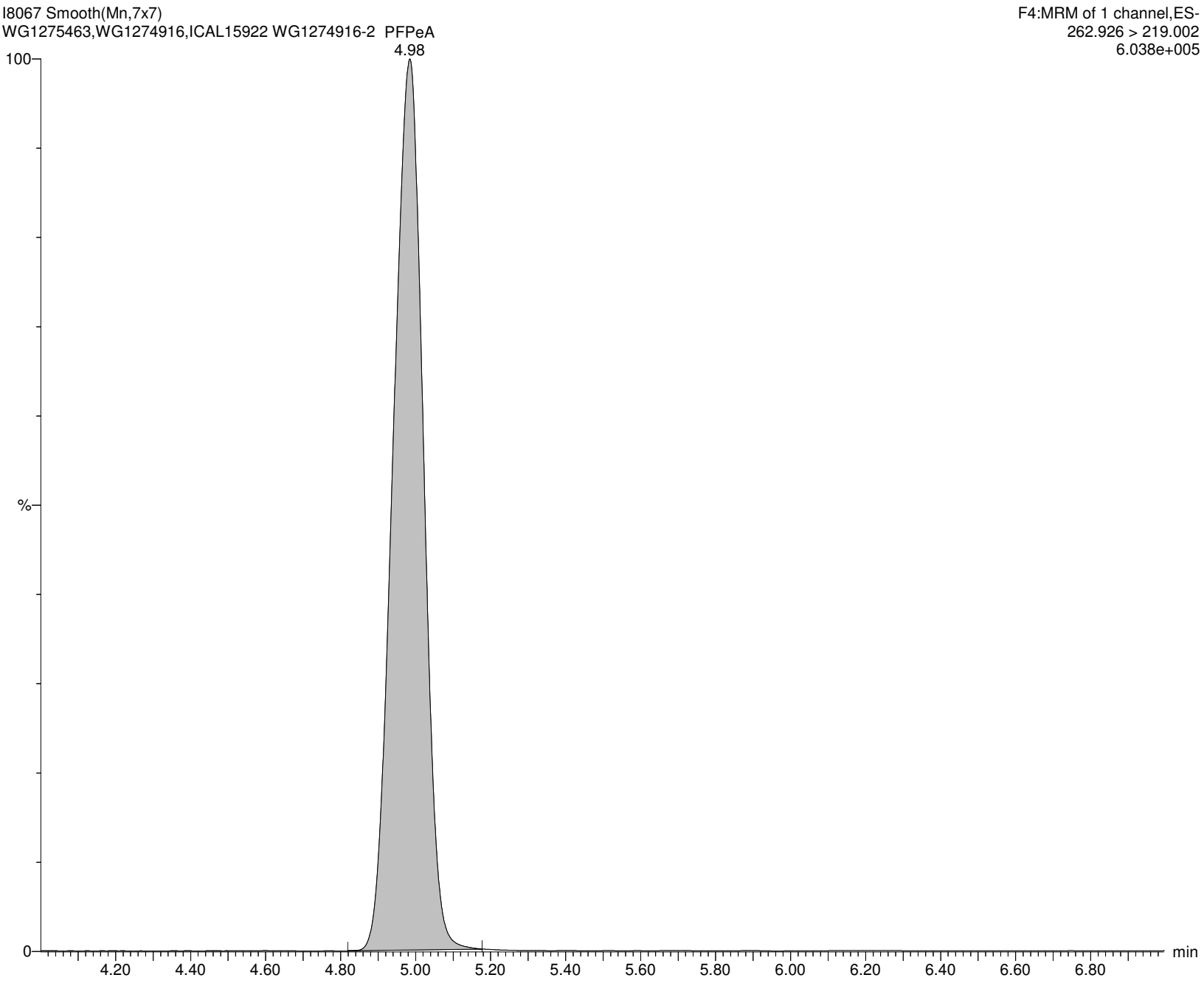


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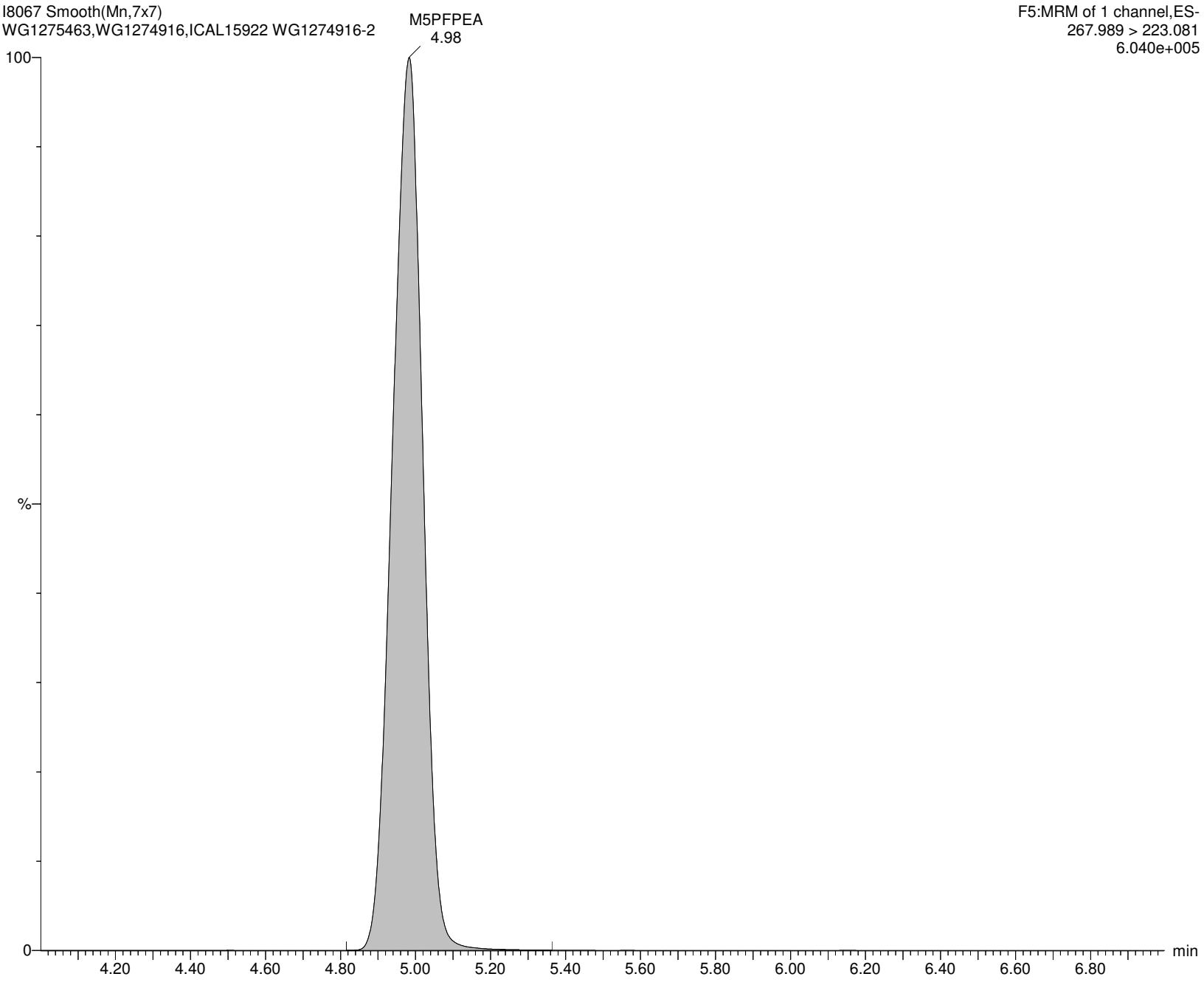


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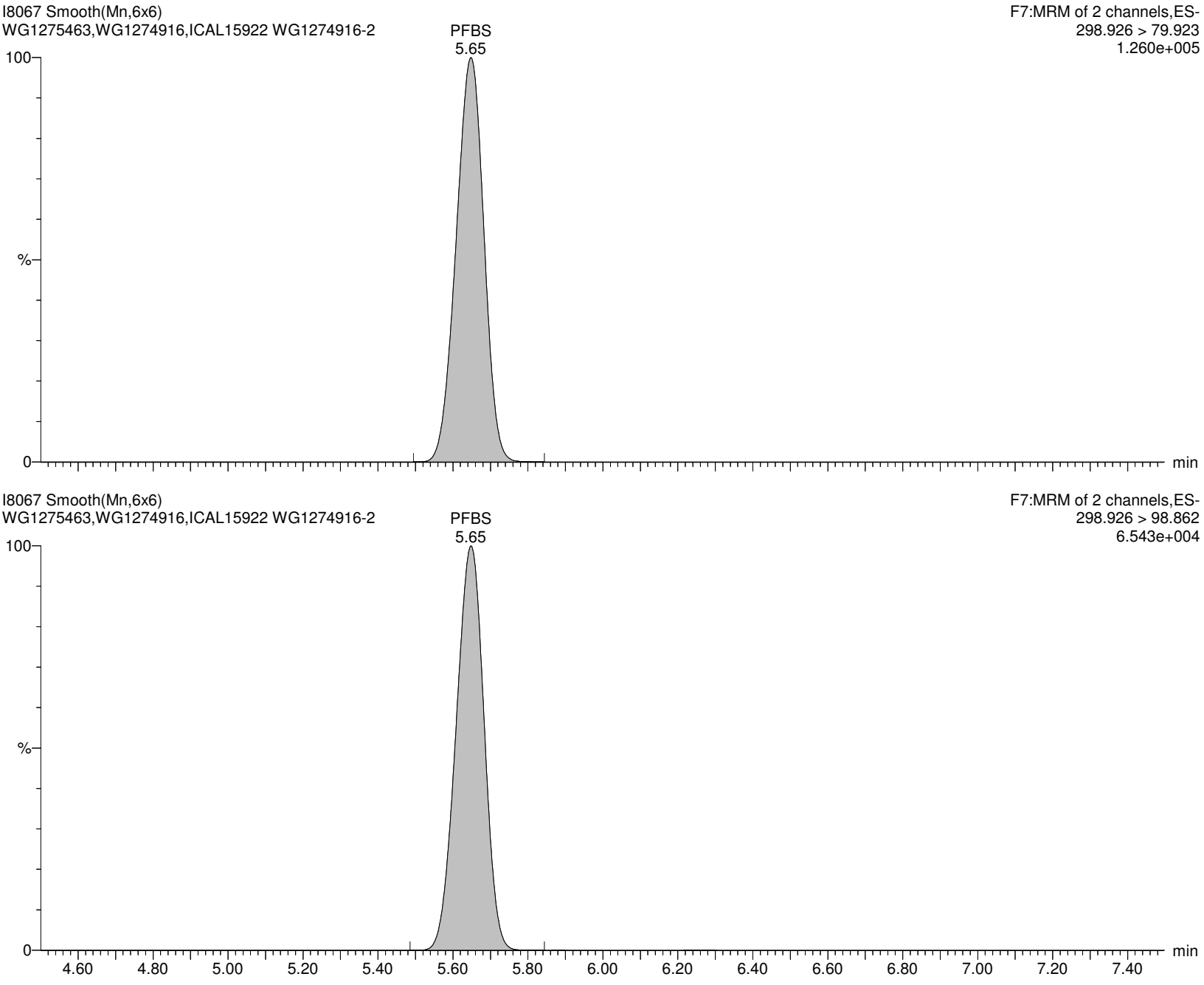


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PFBS

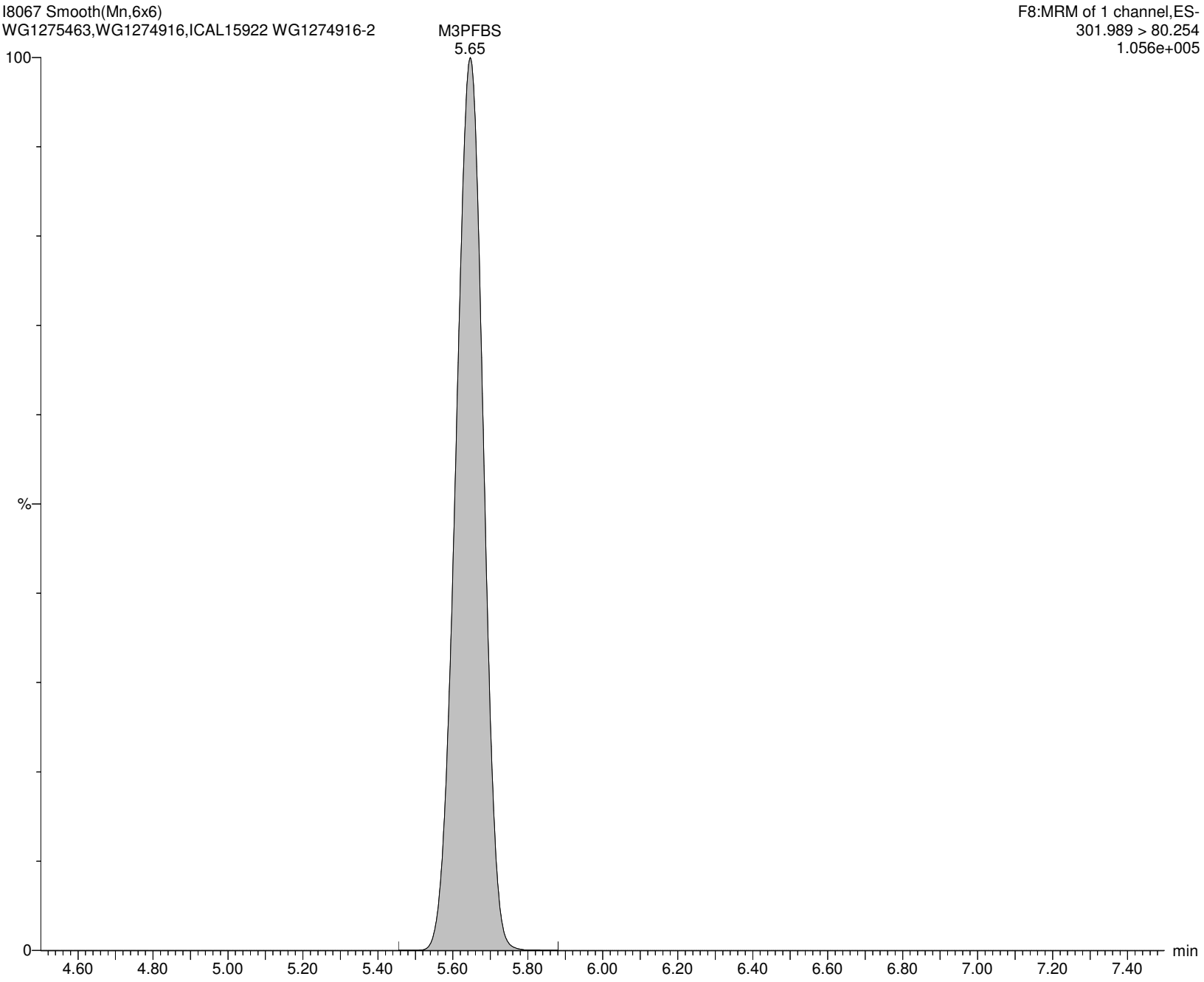


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M3PFBS

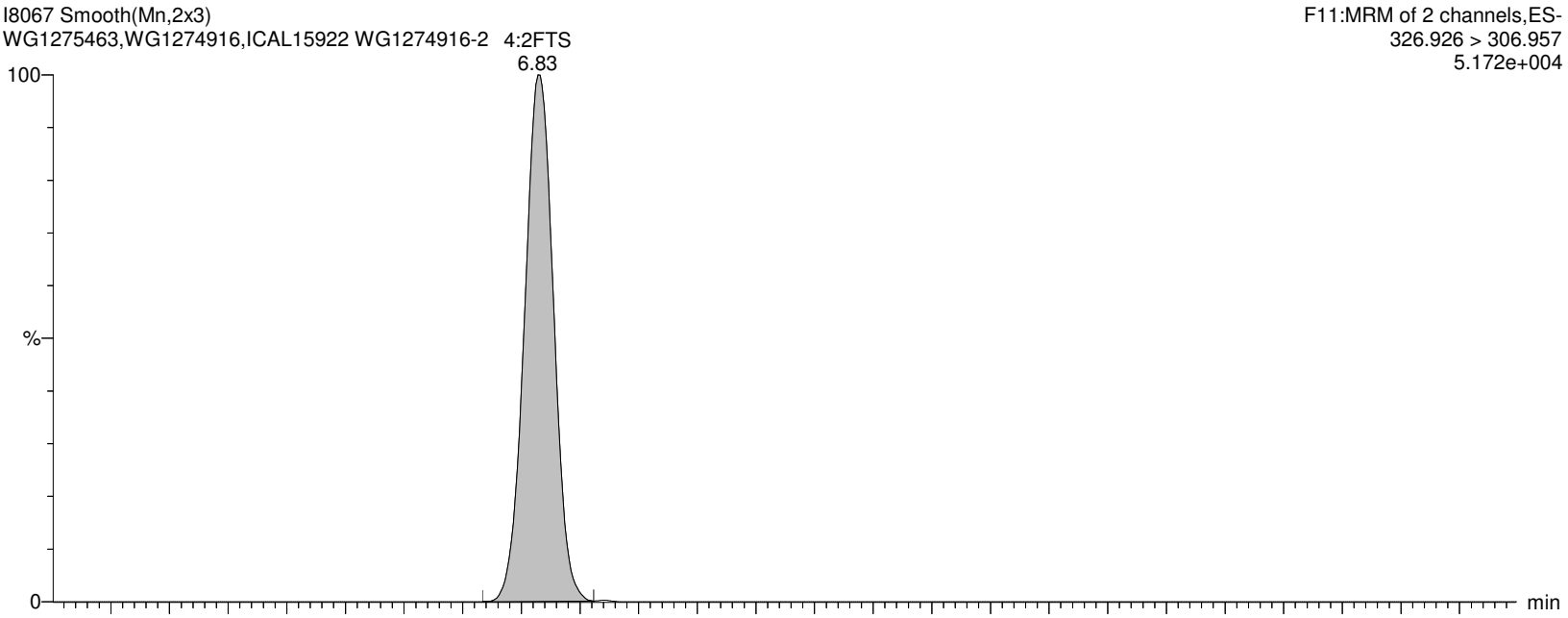


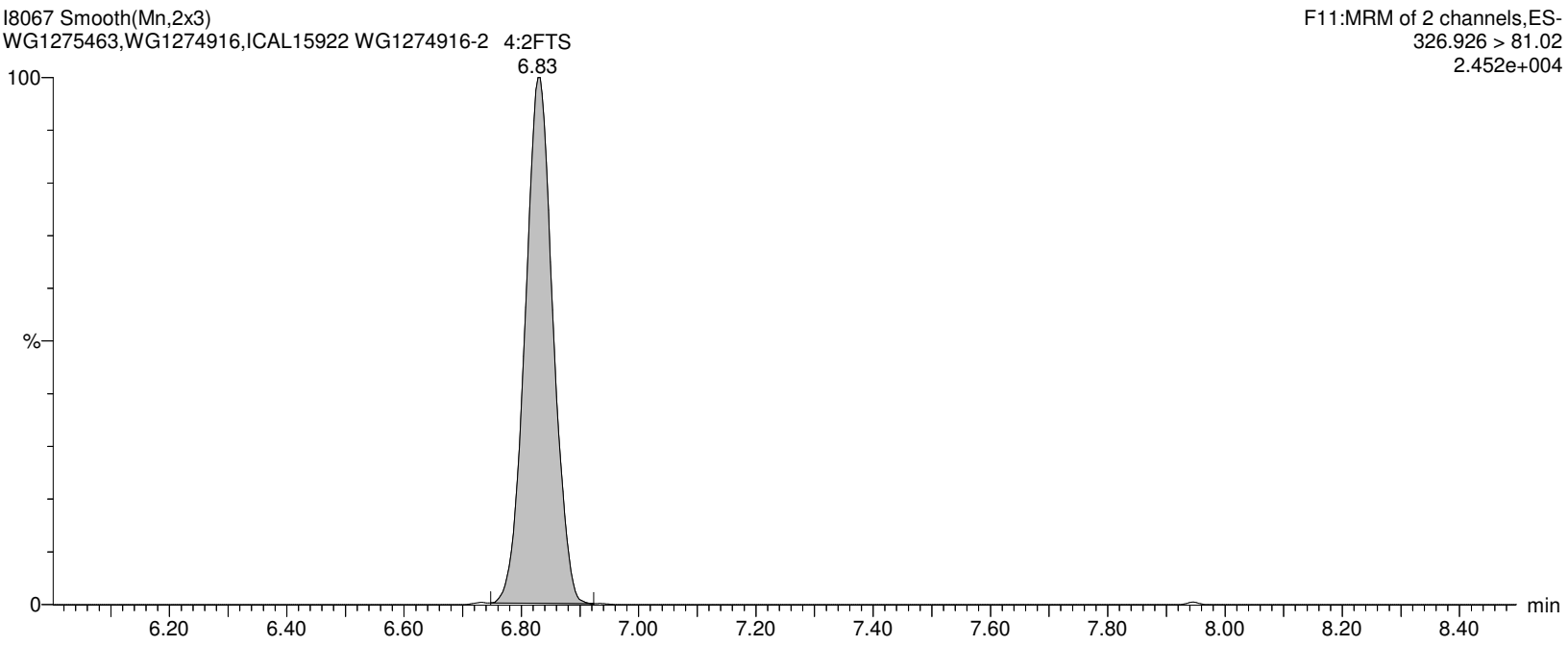
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
Last Altered: Thursday, August 22, 2019 13:45:42 Eastern Daylight Time
Printed: Thursday, August 22, 2019 13:49:28 Eastern Daylight Time

Name: I8067
ID: WG1274916-2
Date: 22-Aug-2019
Time: 12:00:39
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:B,7
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
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4:2FTS



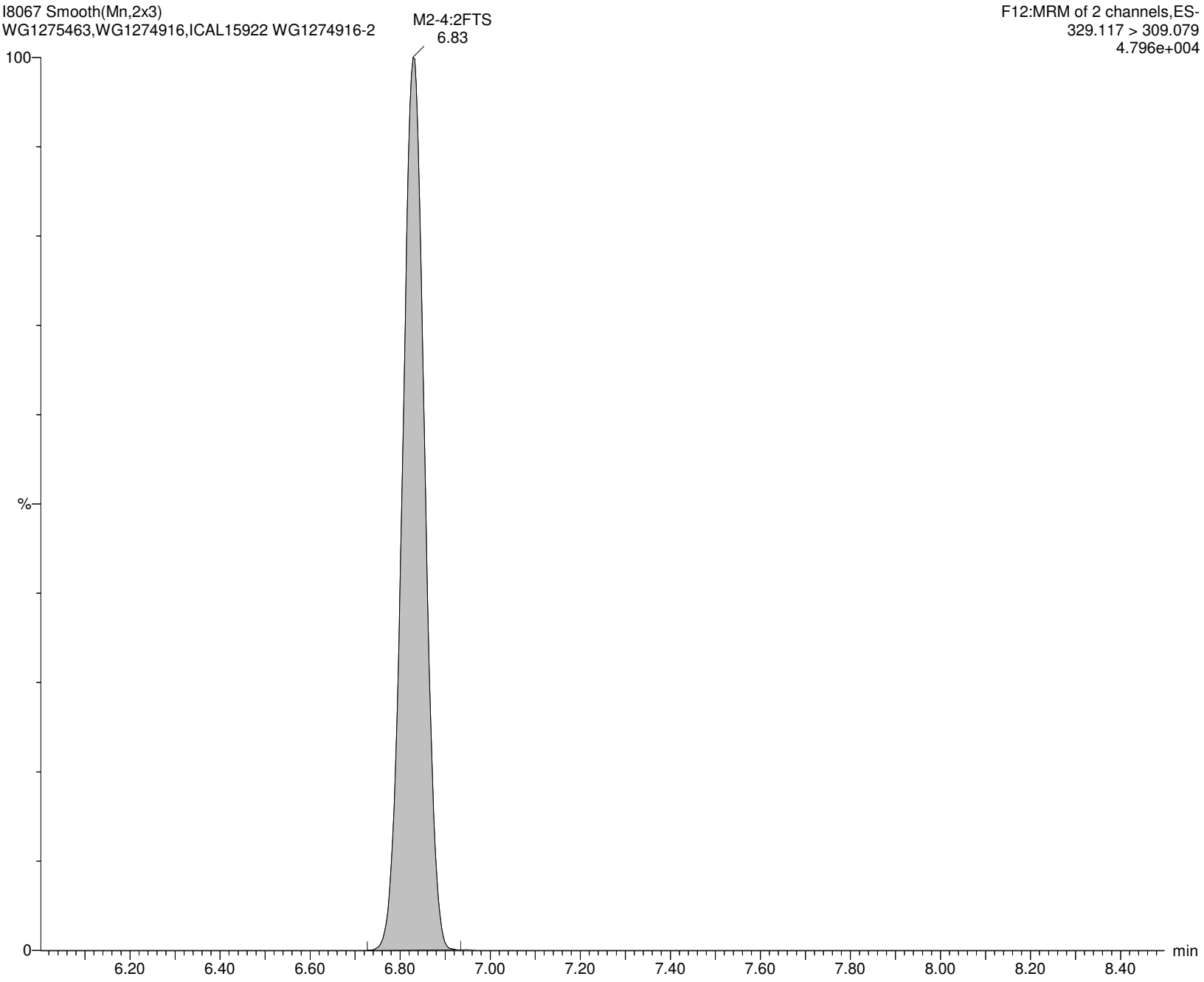


all concentration units in (ng/mL)

Alpha Analytical Inc.
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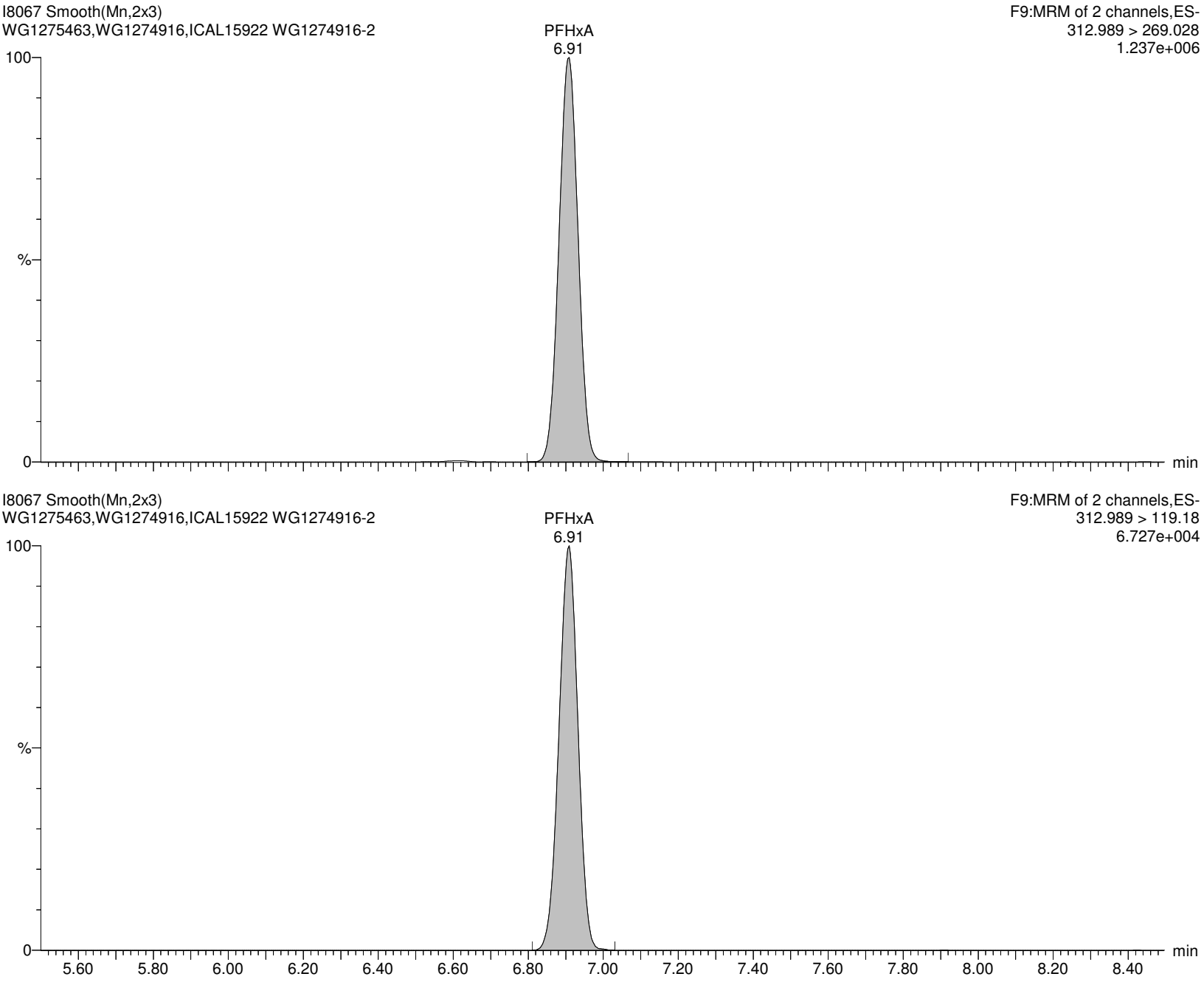


all concentration units in (ng/mL)

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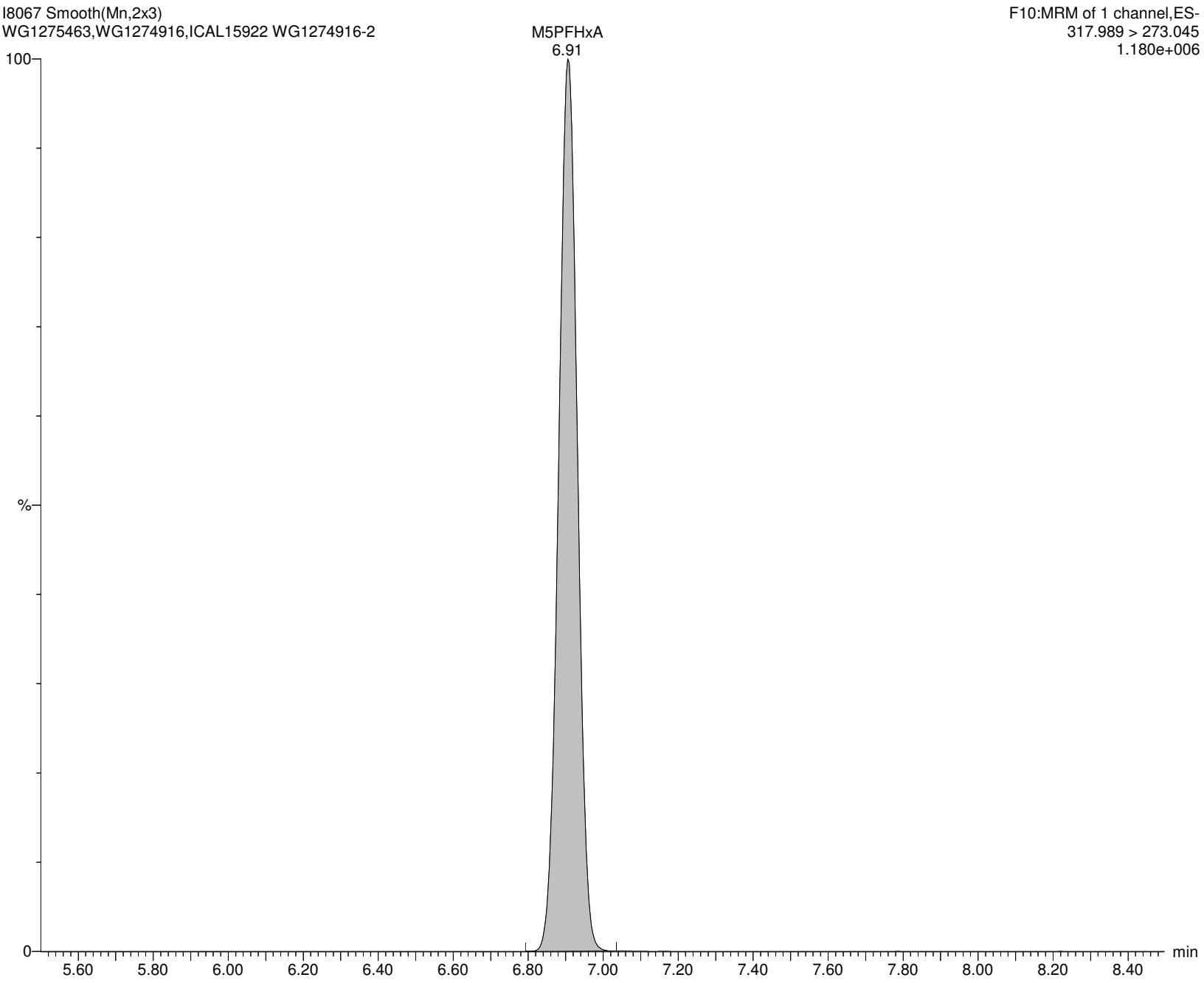


all concentration units in (ng/mL)

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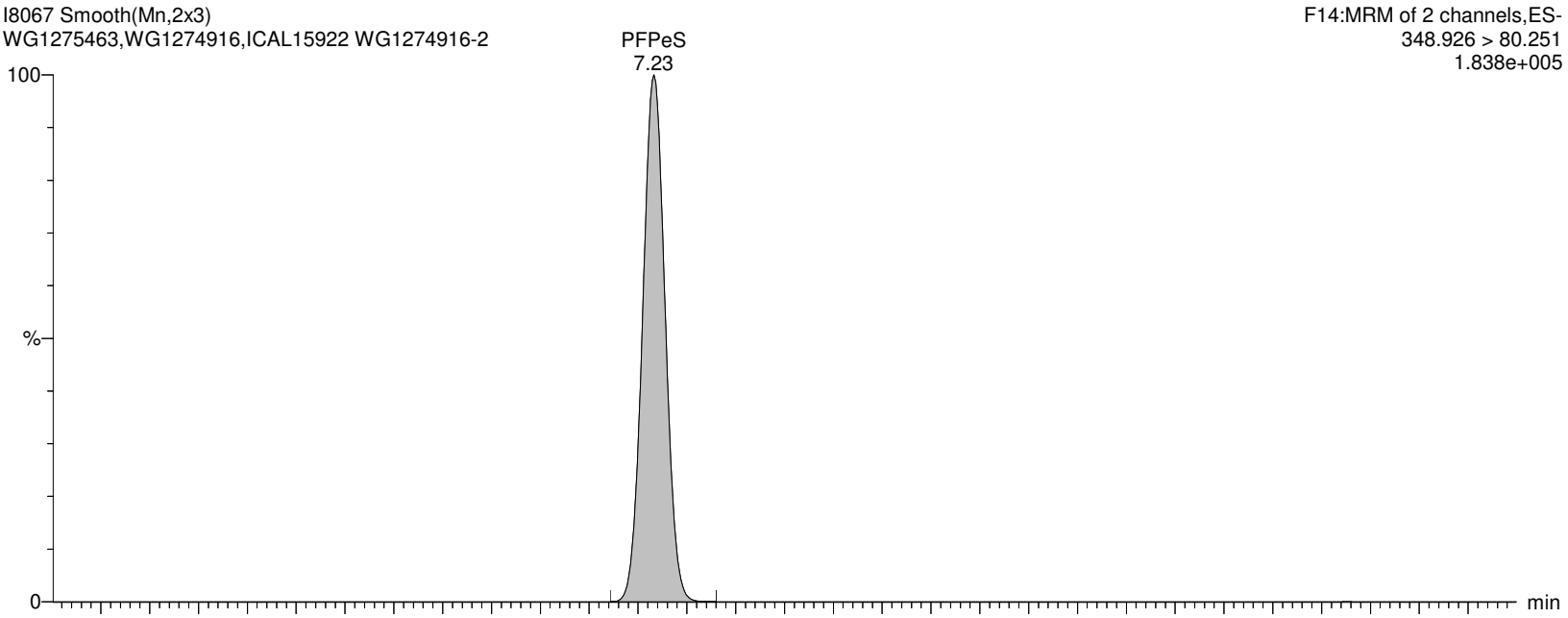


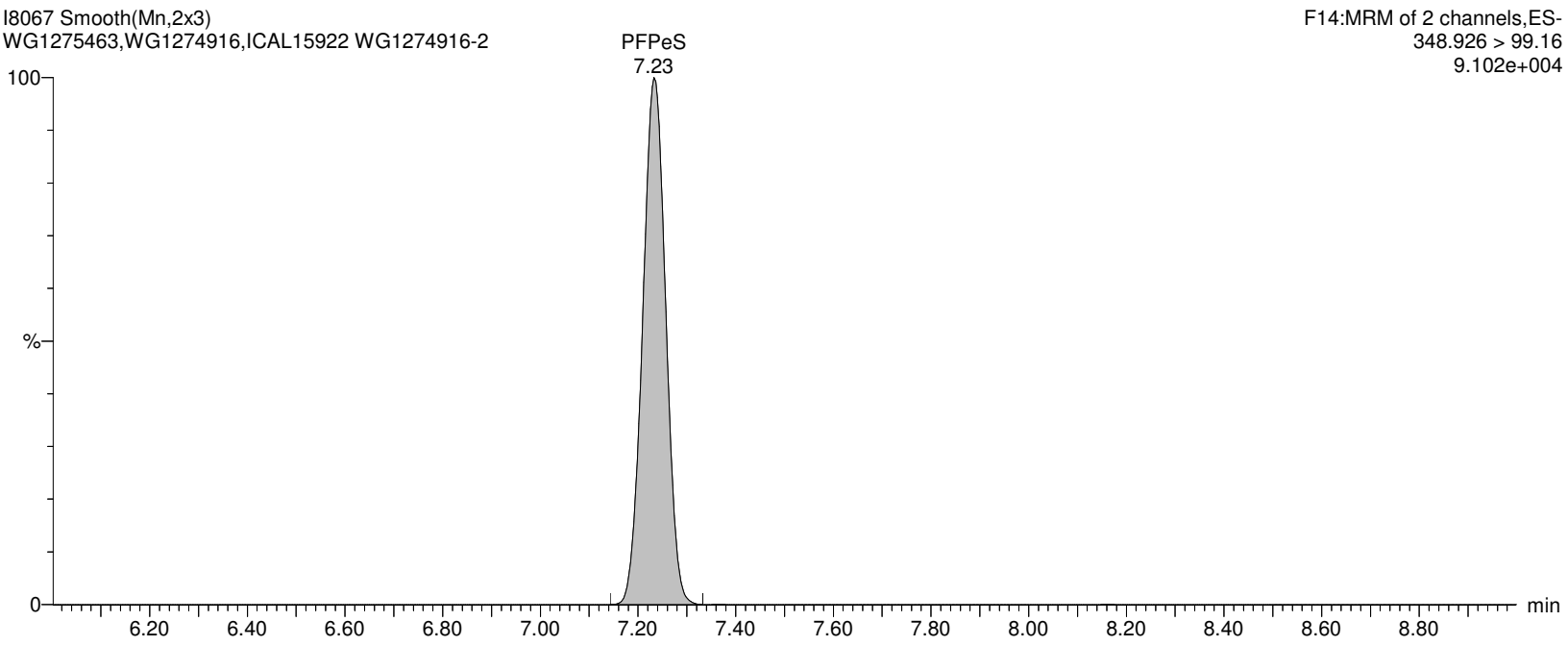
all concentration units in (ng/mL)

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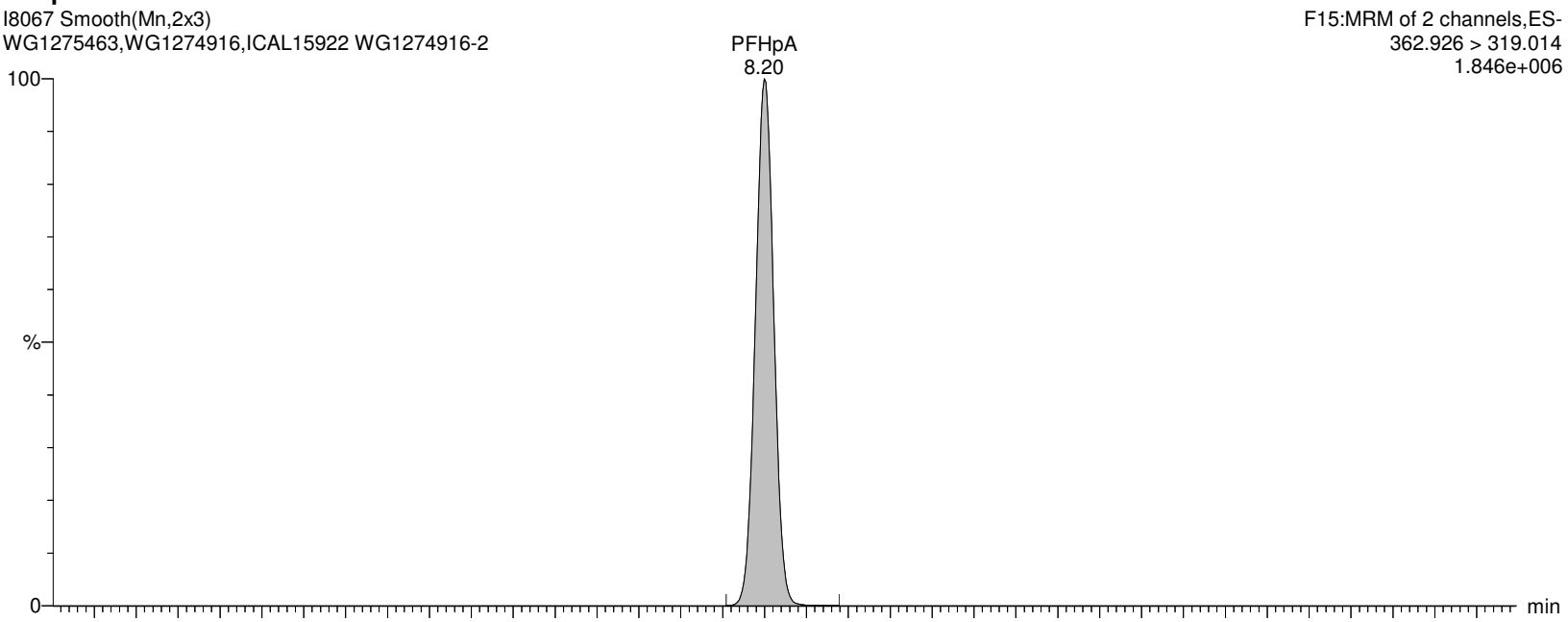


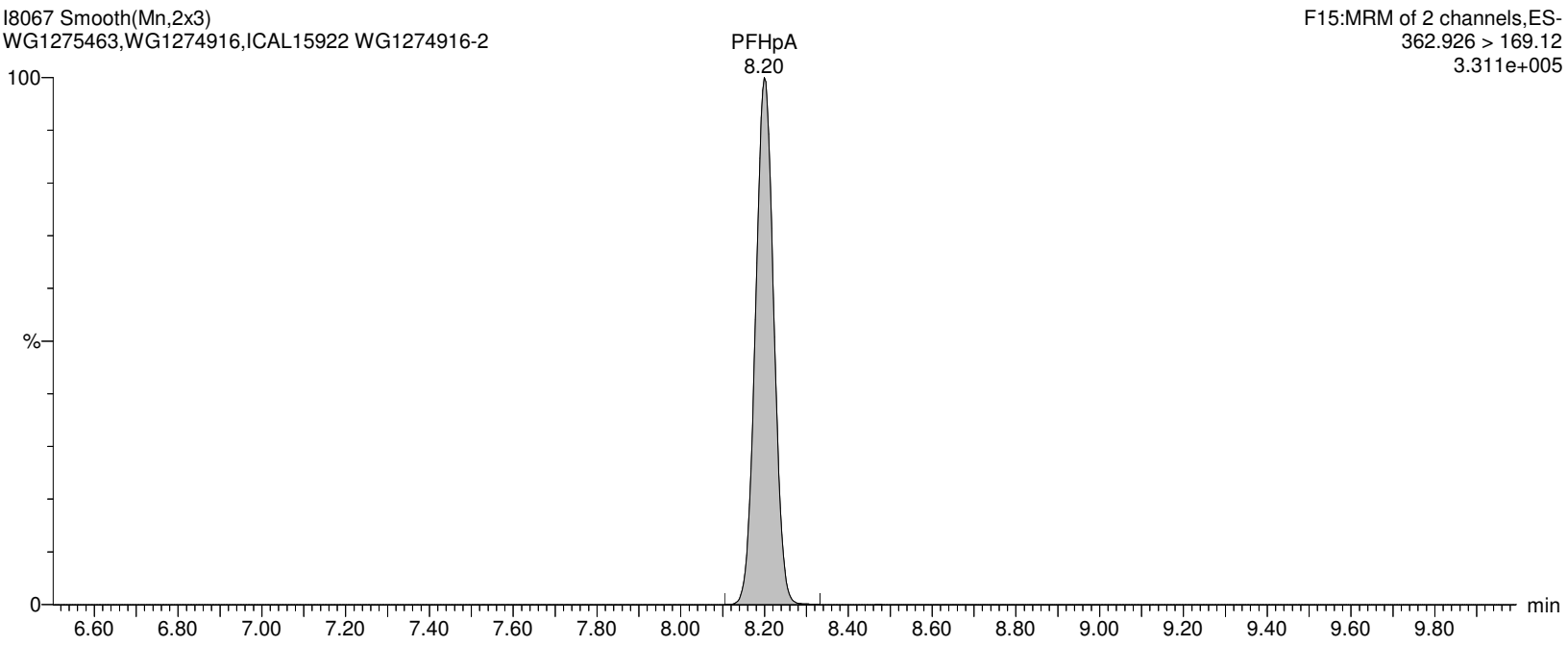
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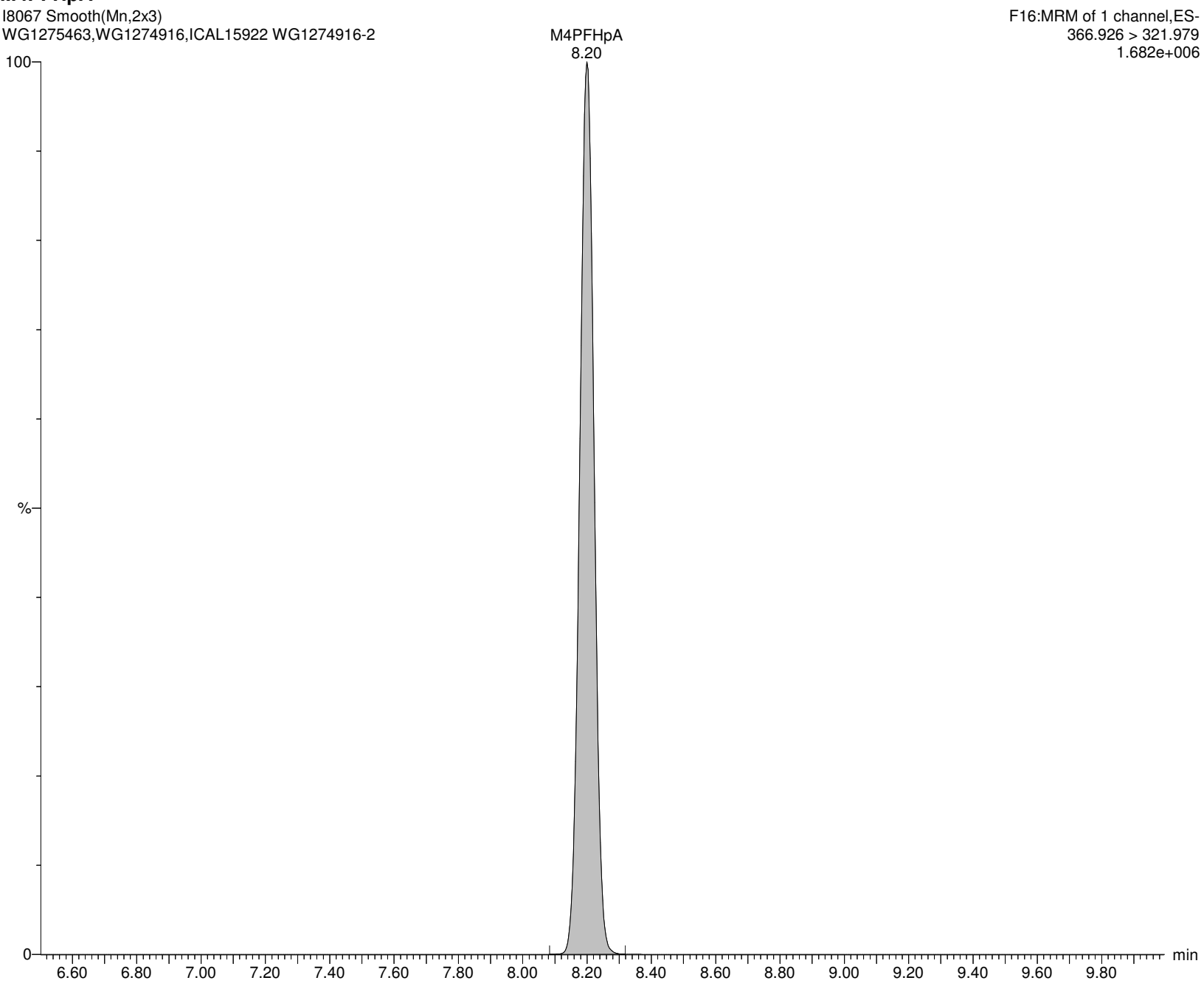


all concentration units in (ng/mL)

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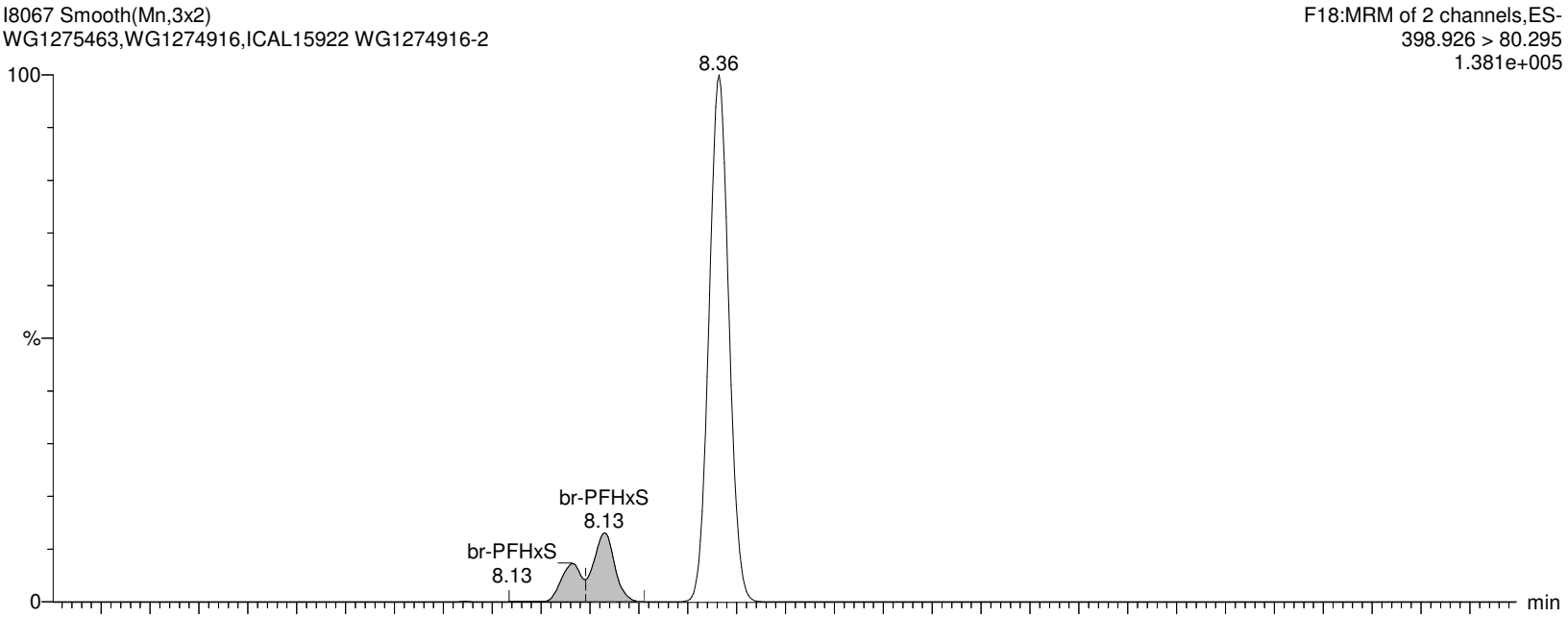


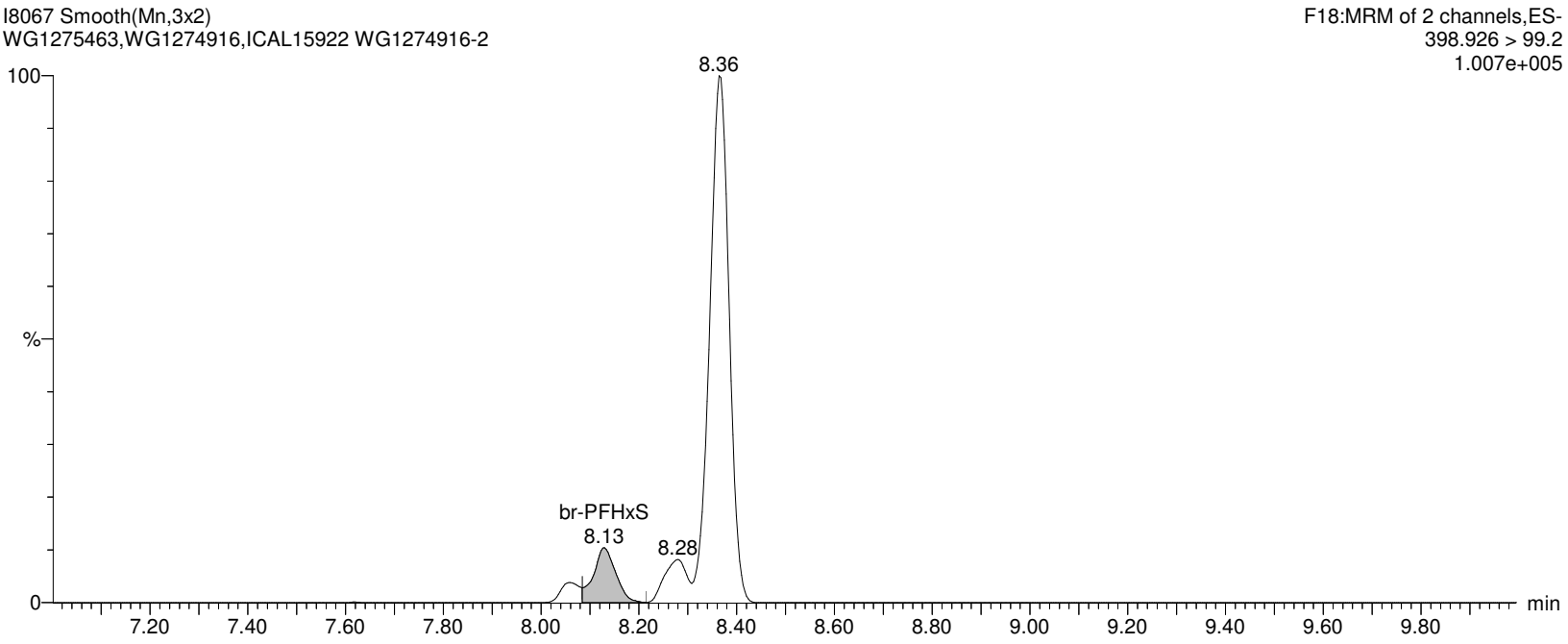
all concentration units in (ng/mL)

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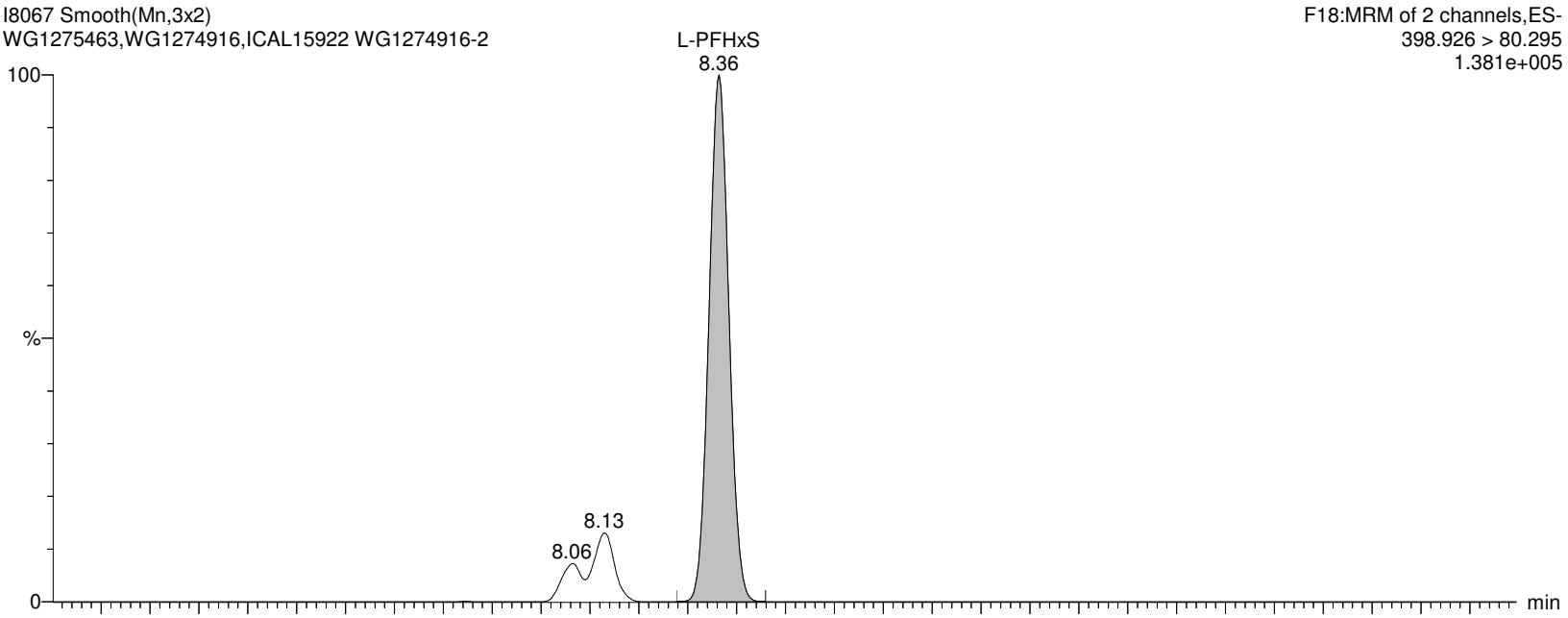


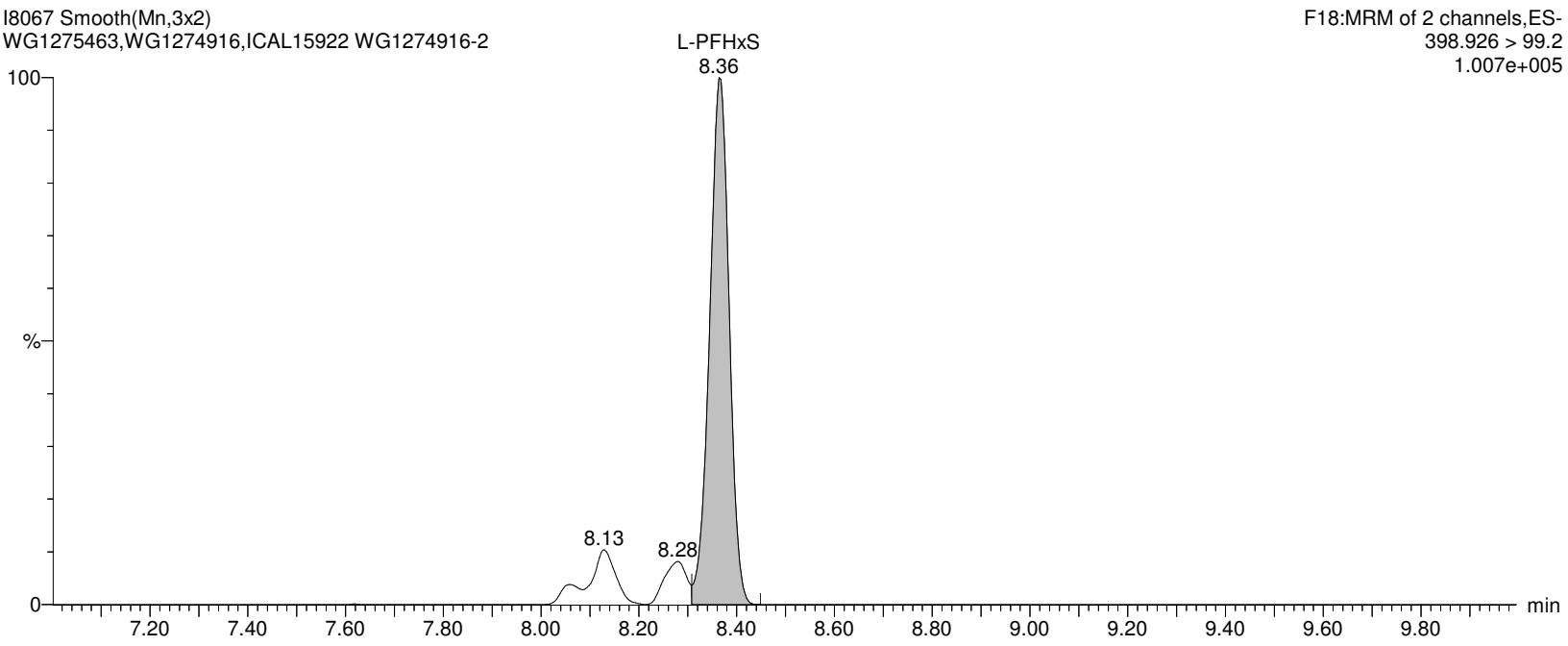
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L-PFHxS



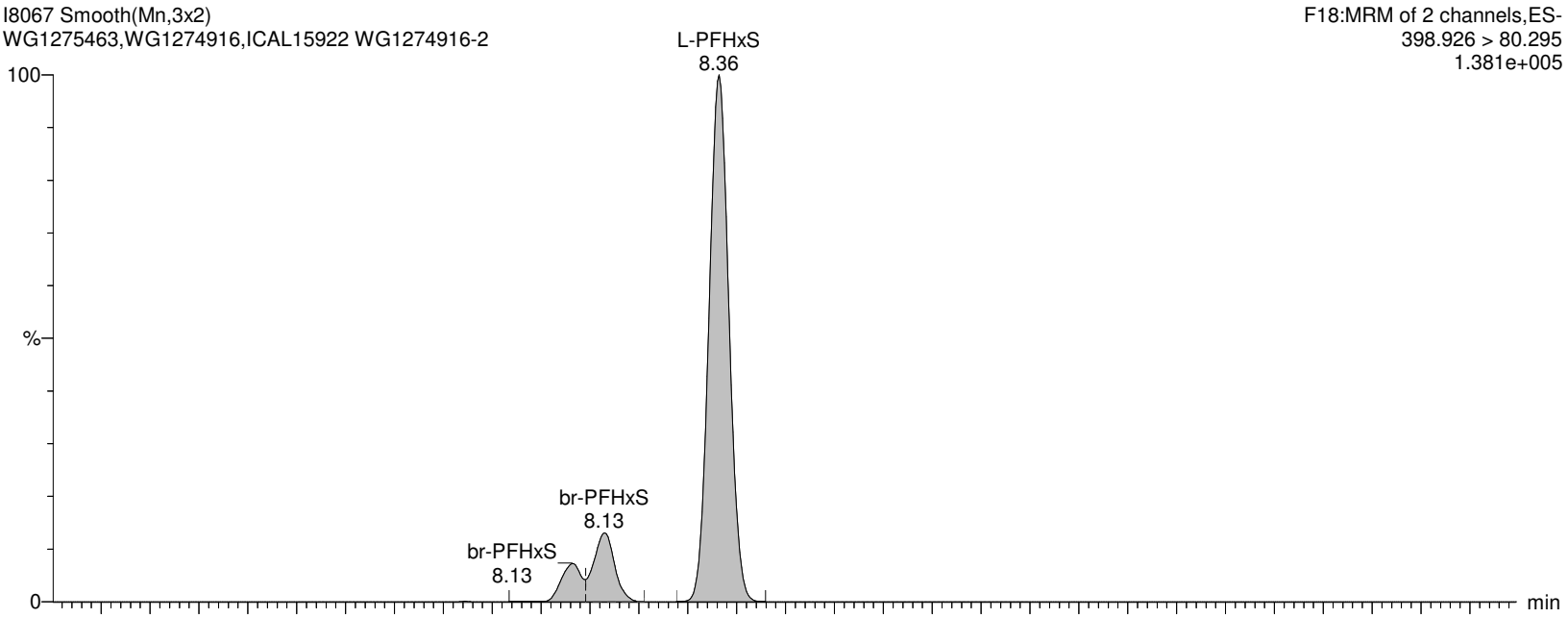


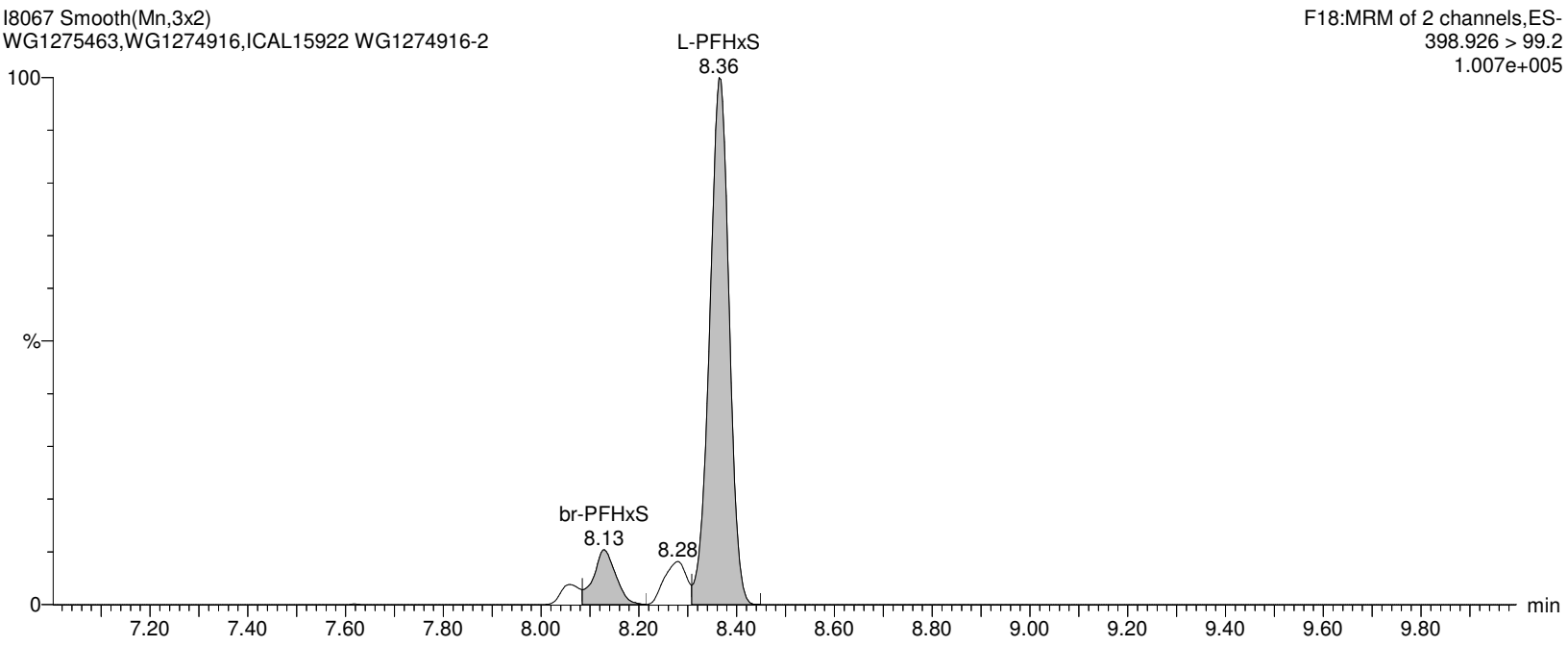
all concentration units in (ng/mL)

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PFHxS



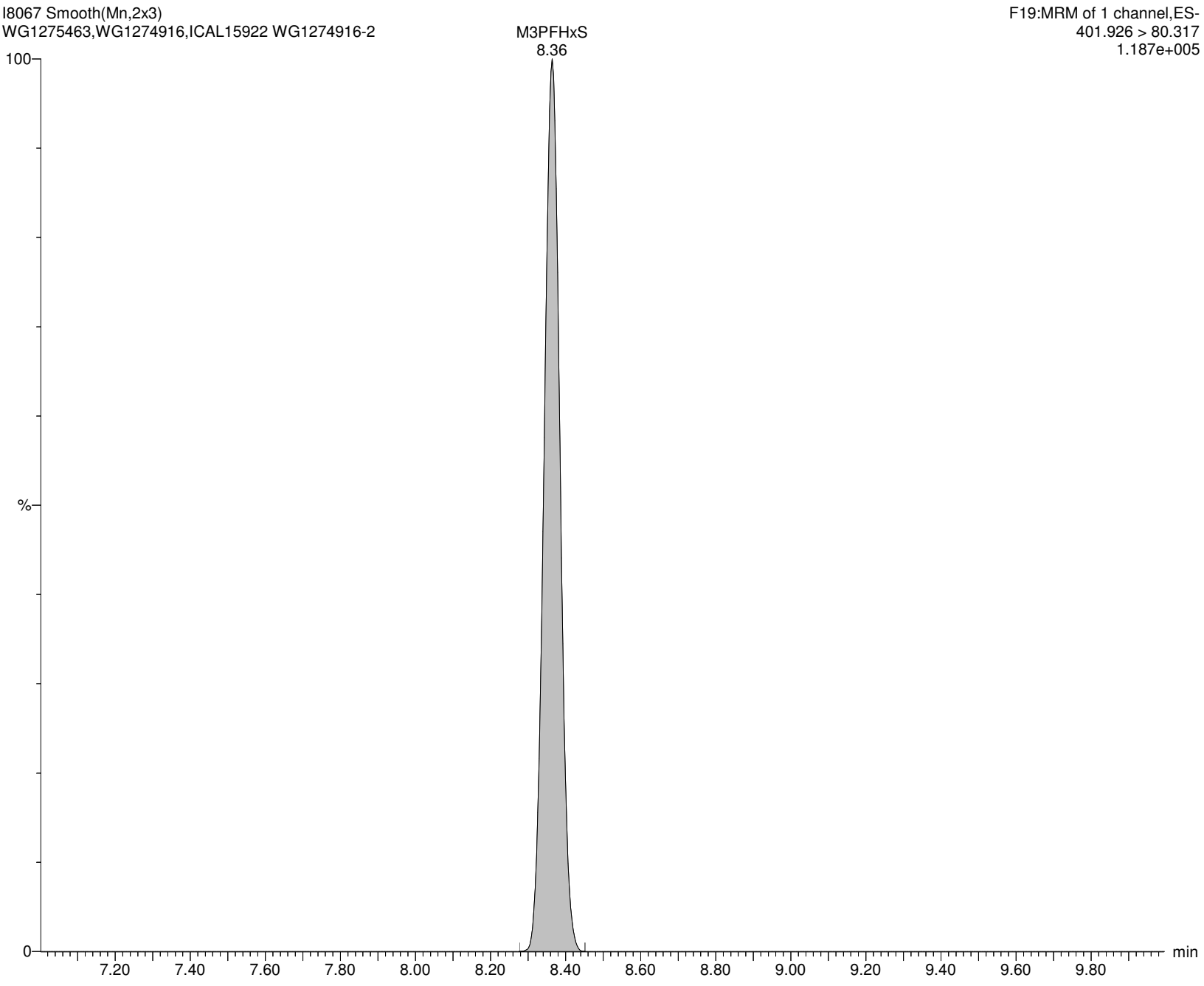


all concentration units in (ng/mL)

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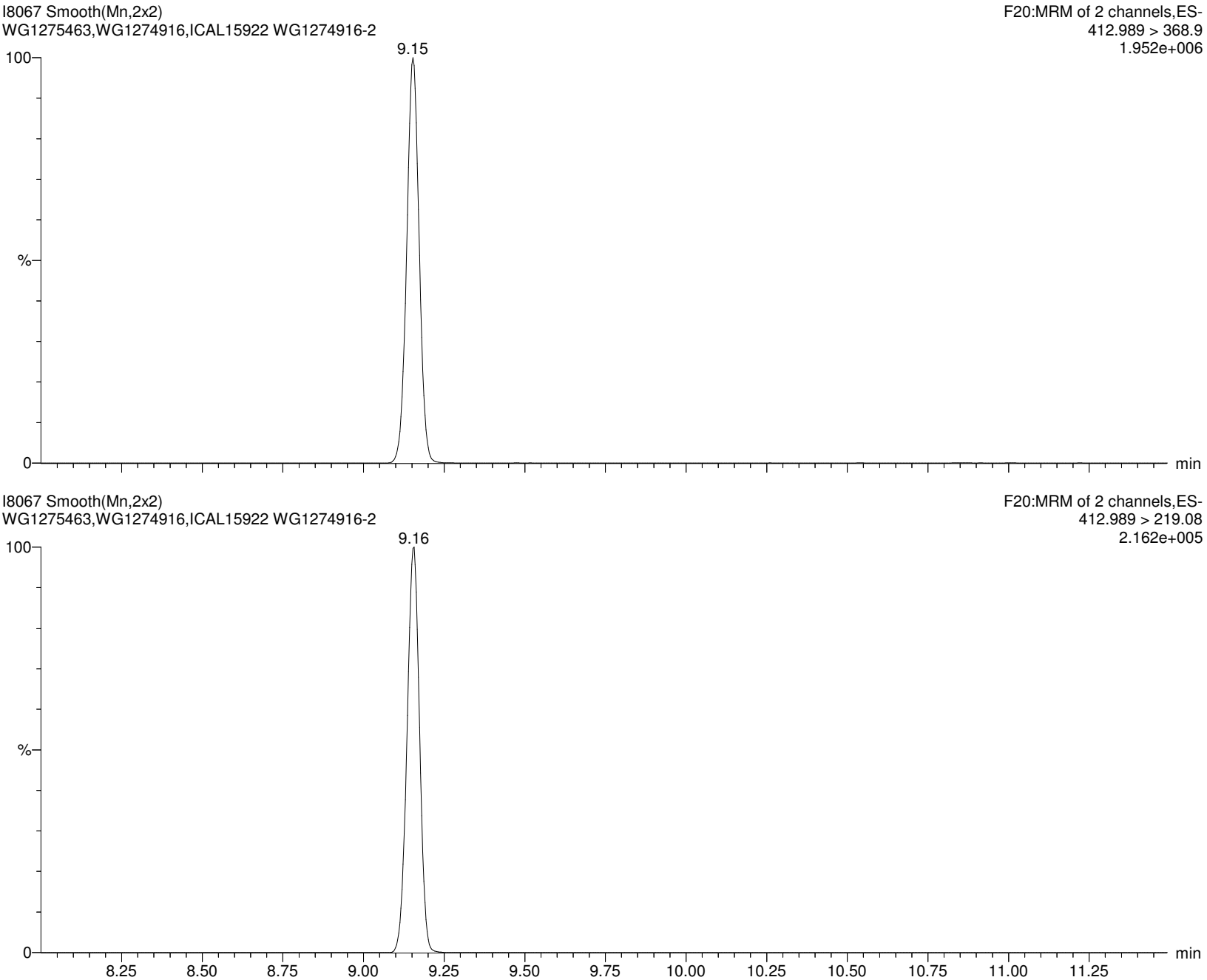


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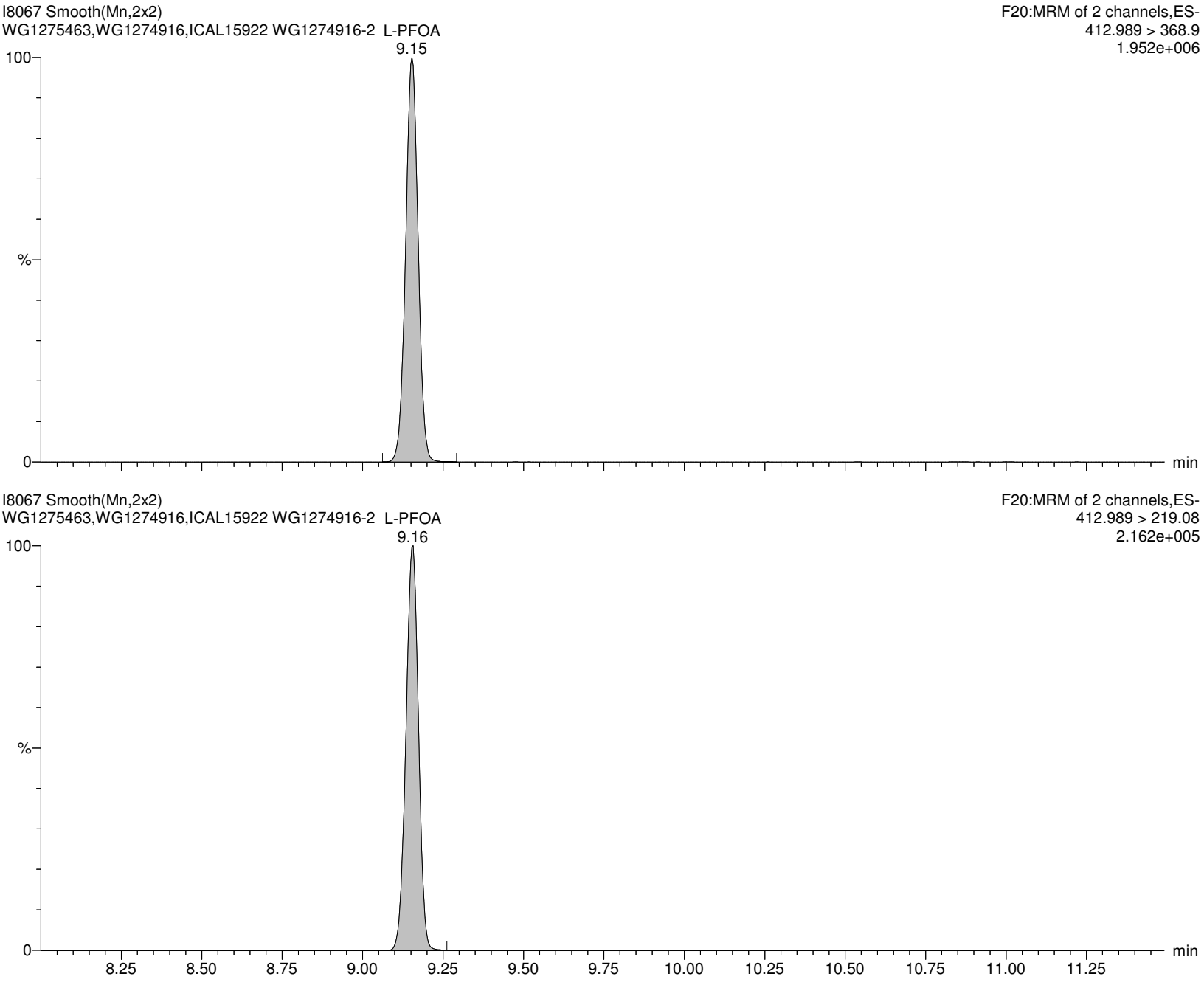


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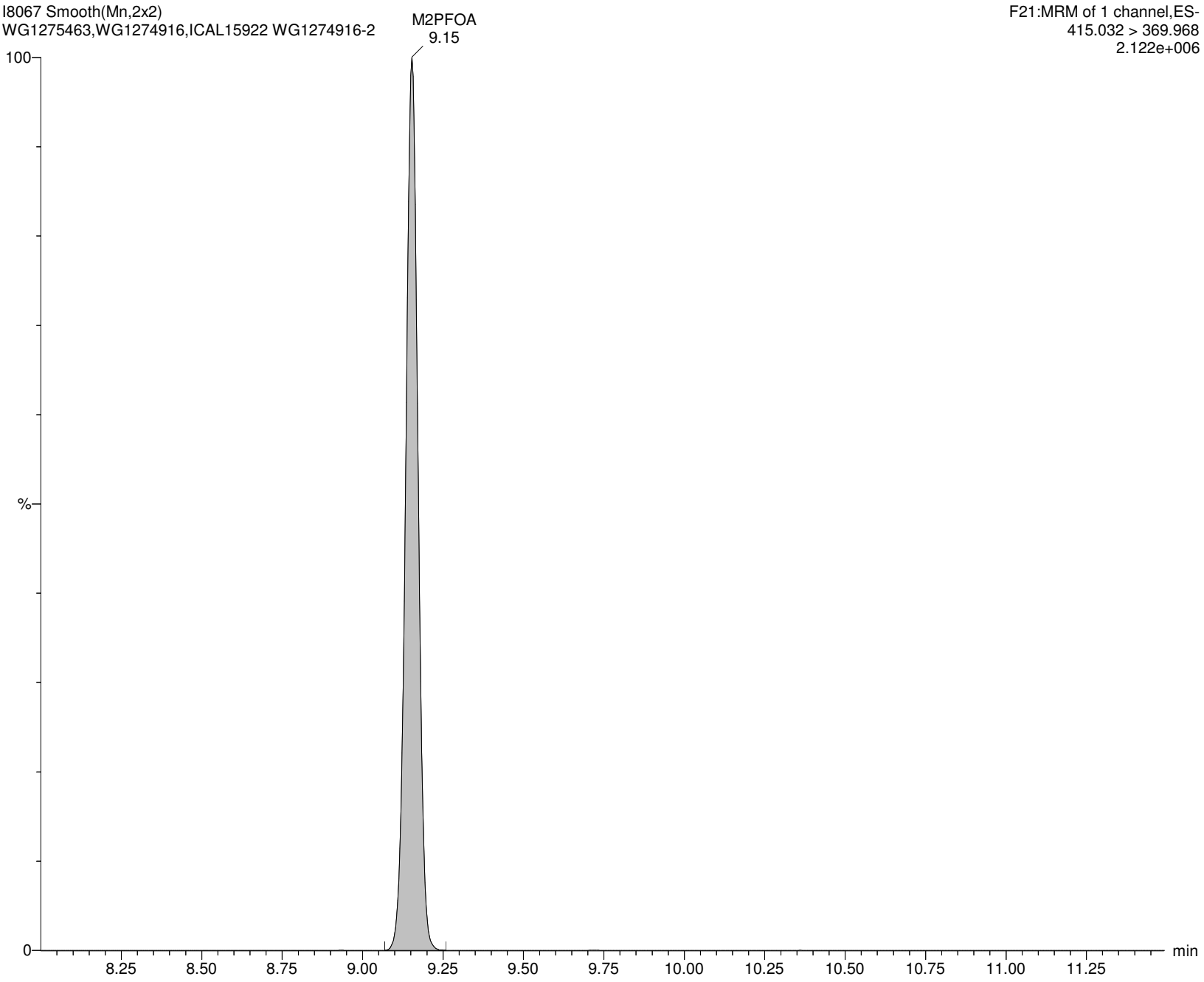


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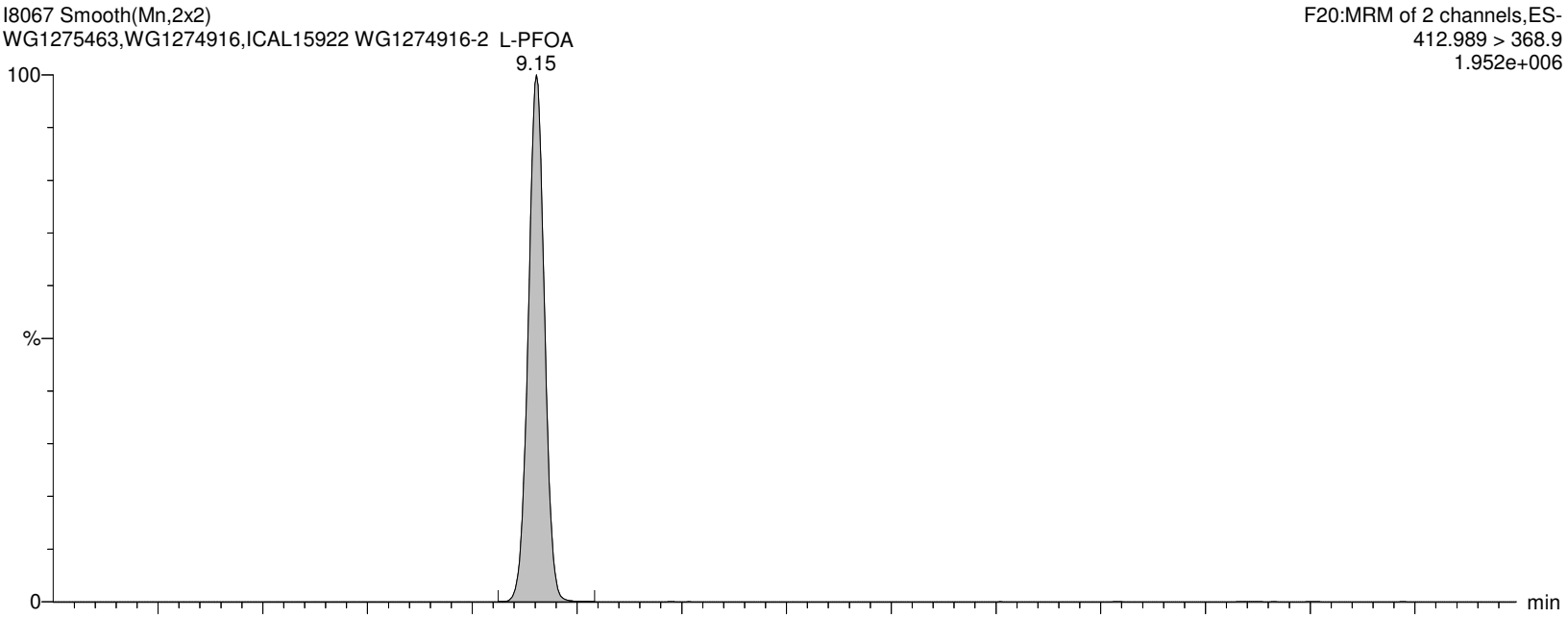


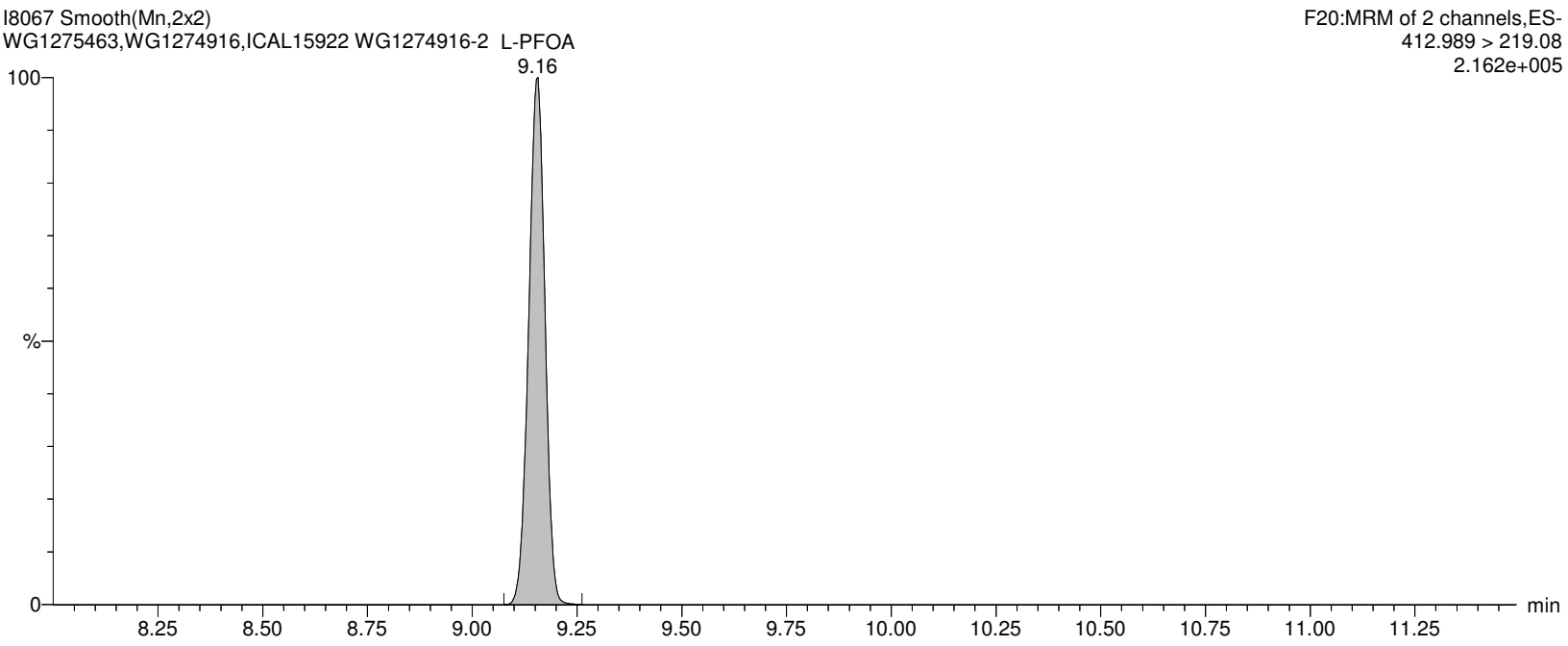
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PFOA



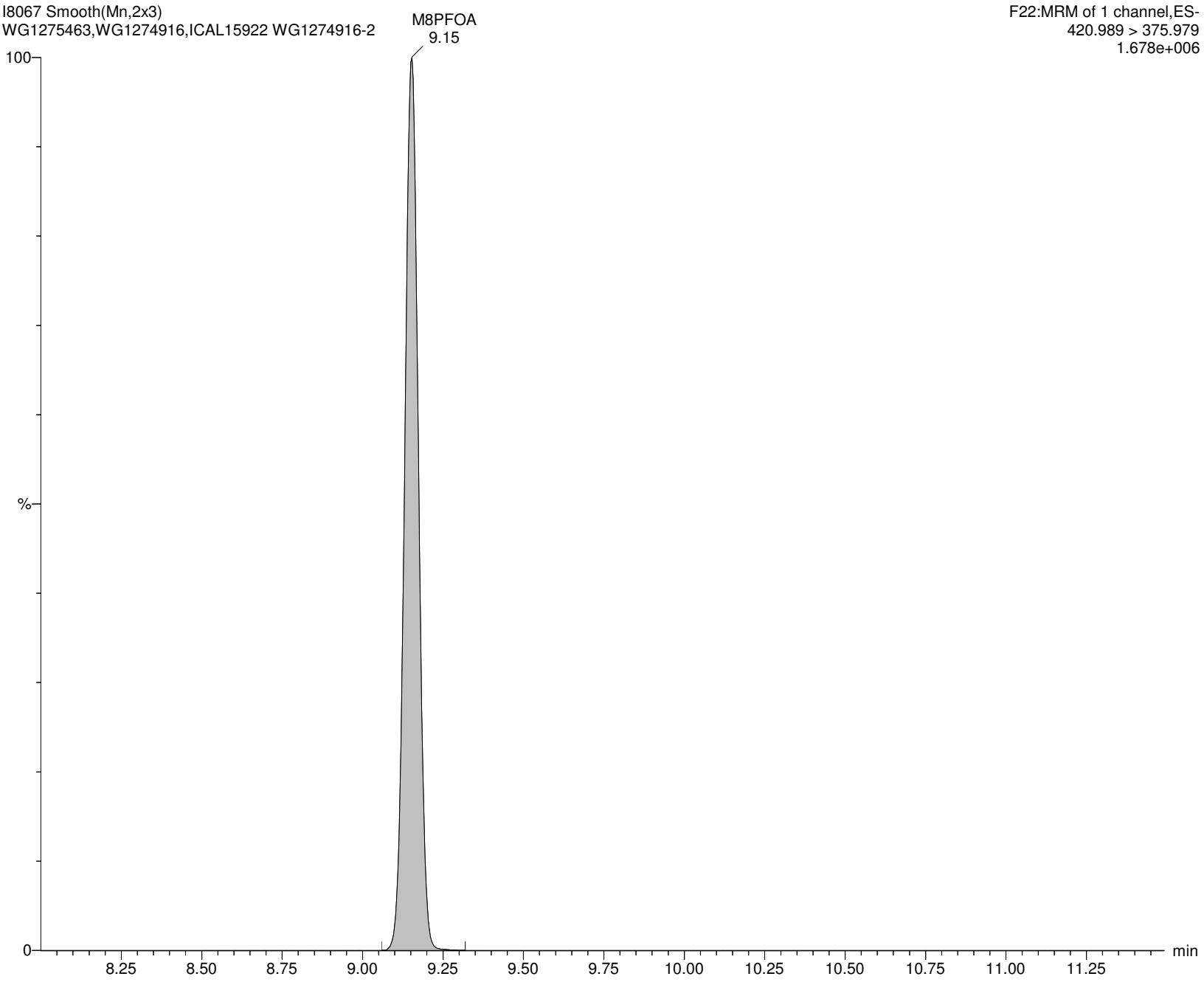


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Vial: 1:B,7
Instrument: XEVO-TQSmicro#QEB0050
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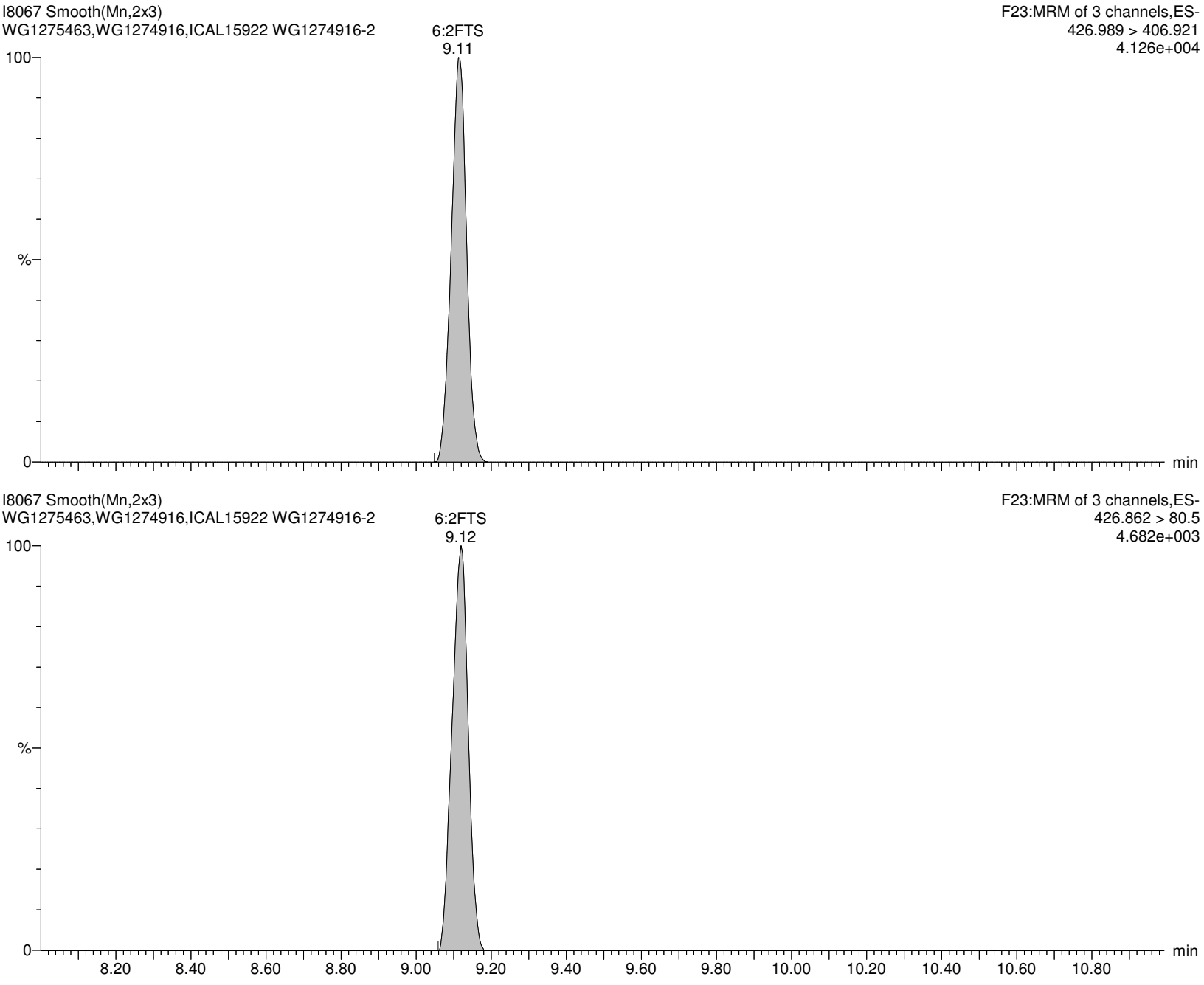


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
Last Altered: Thursday, August 22, 2019 13:45:42 Eastern Daylight Time
Printed: Thursday, August 22, 2019 13:49:28 Eastern Daylight Time

Name: I8067
ID: WG1274916-2
Date: 22-Aug-2019
Time: 12:00:39
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:B,7
Instrument: XEVO-TQSmicro#QEB0050
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6:2FTS

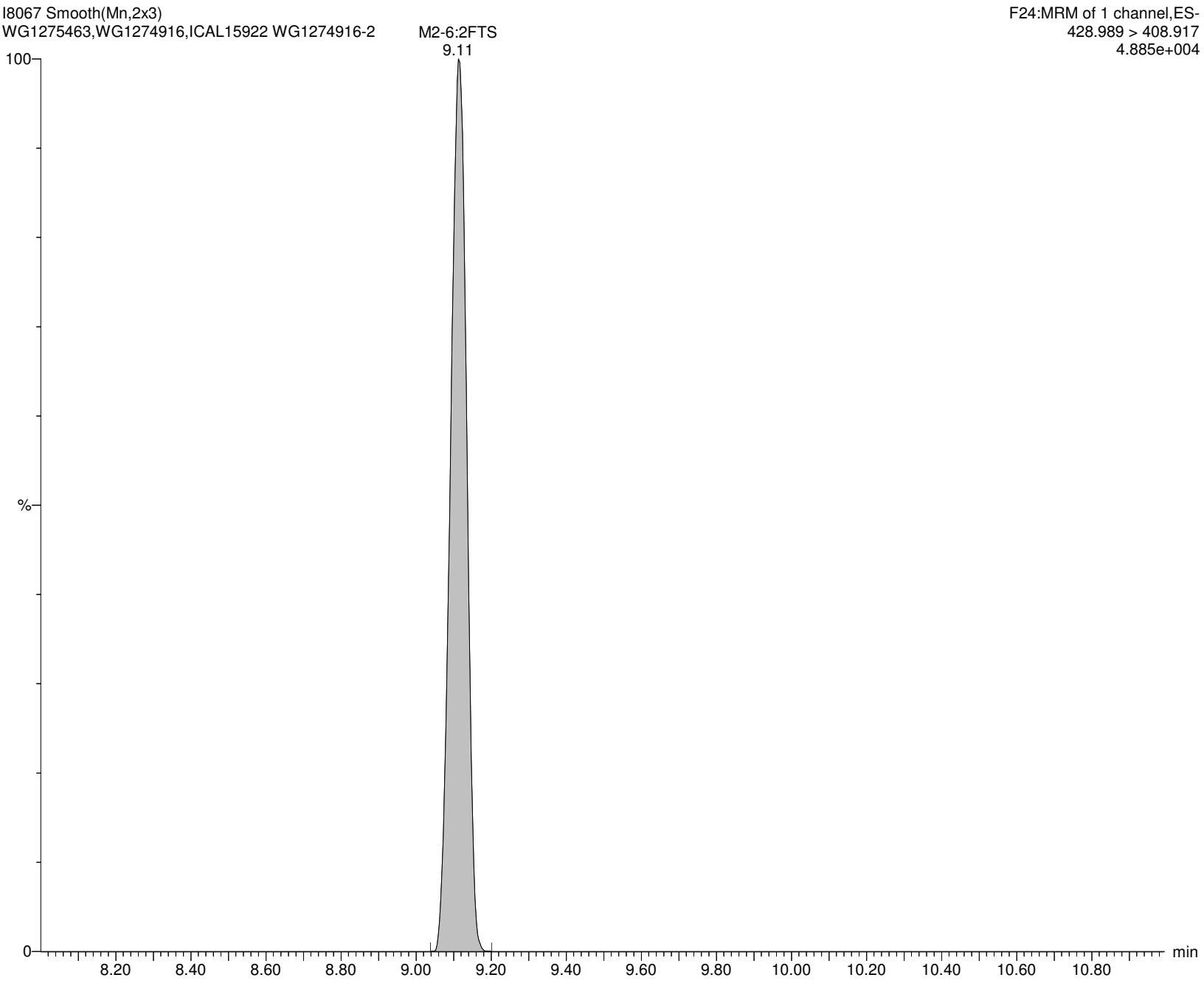


all concentration units in (ng/mL)

Alpha Analytical Inc.
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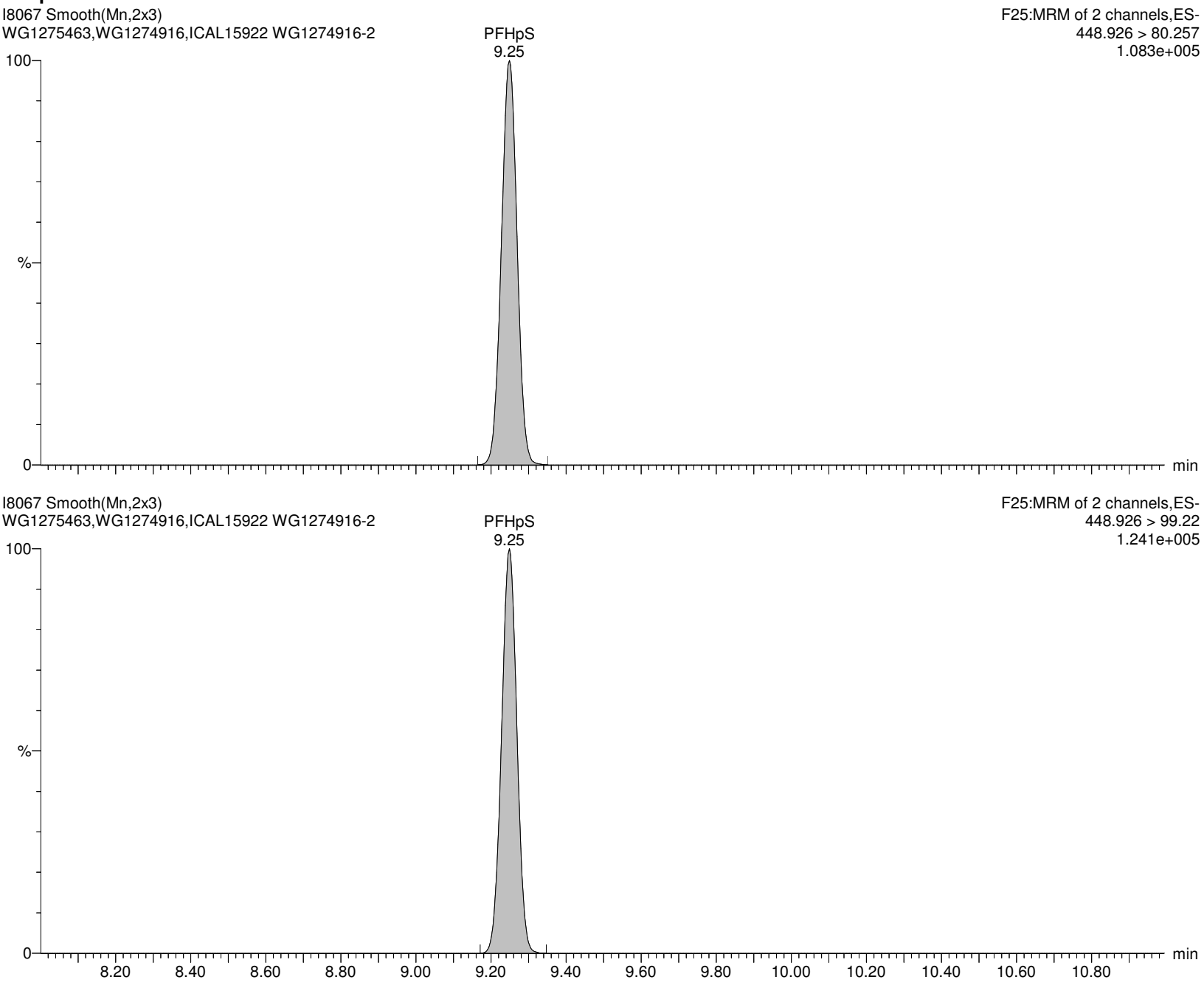


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, August 22, 2019 13:45:42 Eastern Daylight Time
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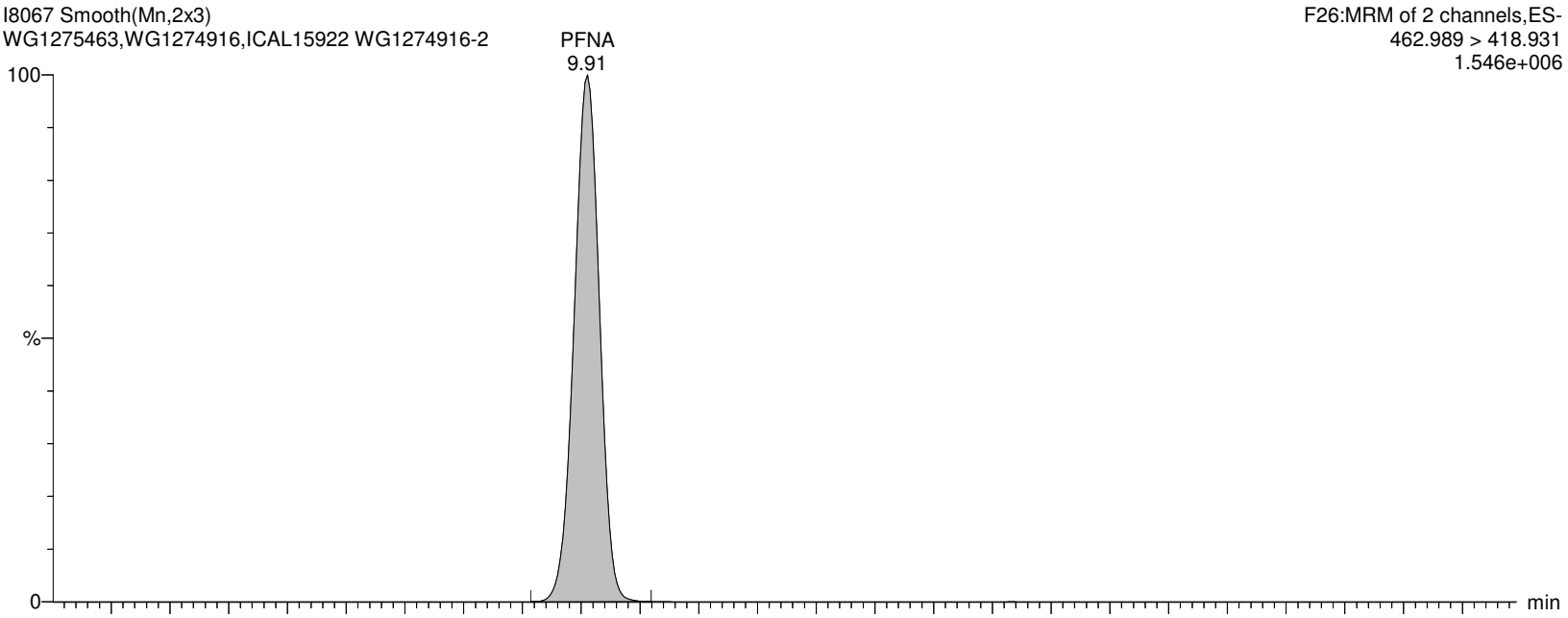


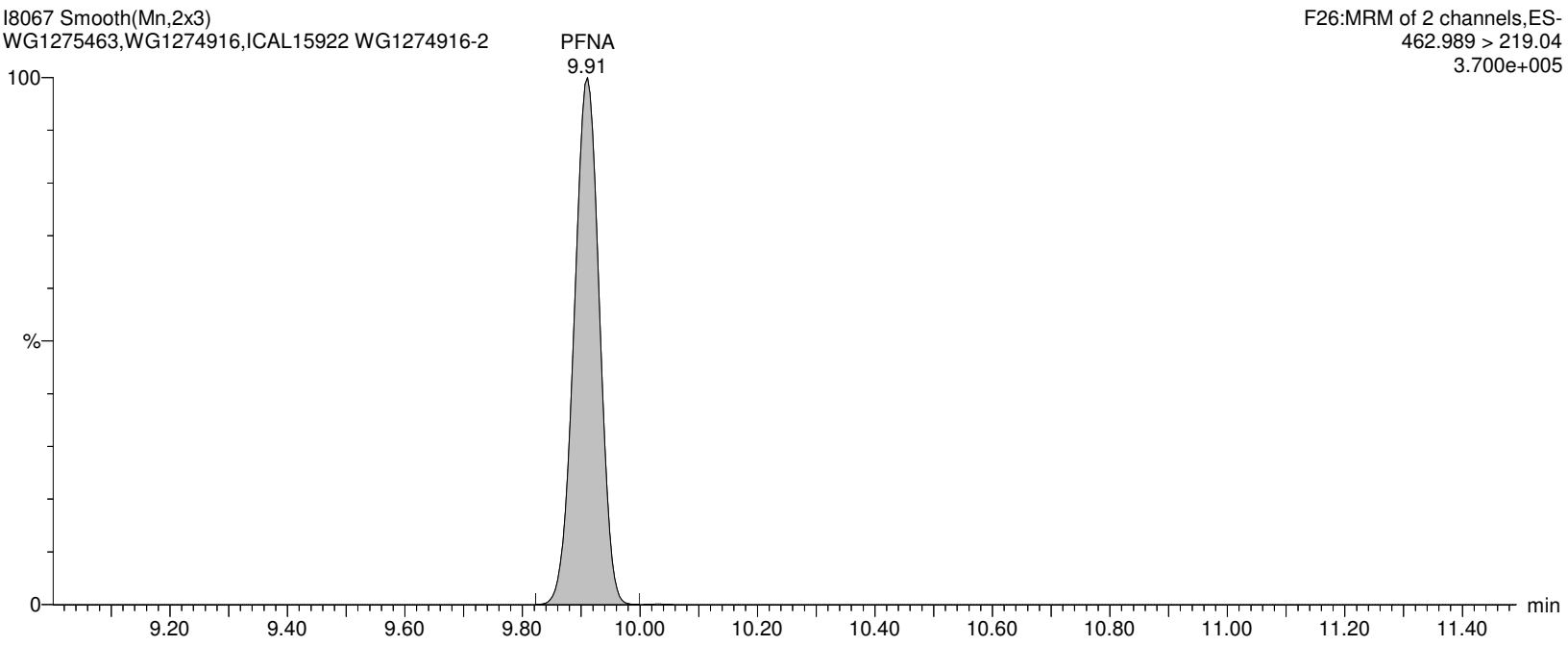
all concentration units in (ng/mL)

Alpha Analytical Inc.
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PFNA



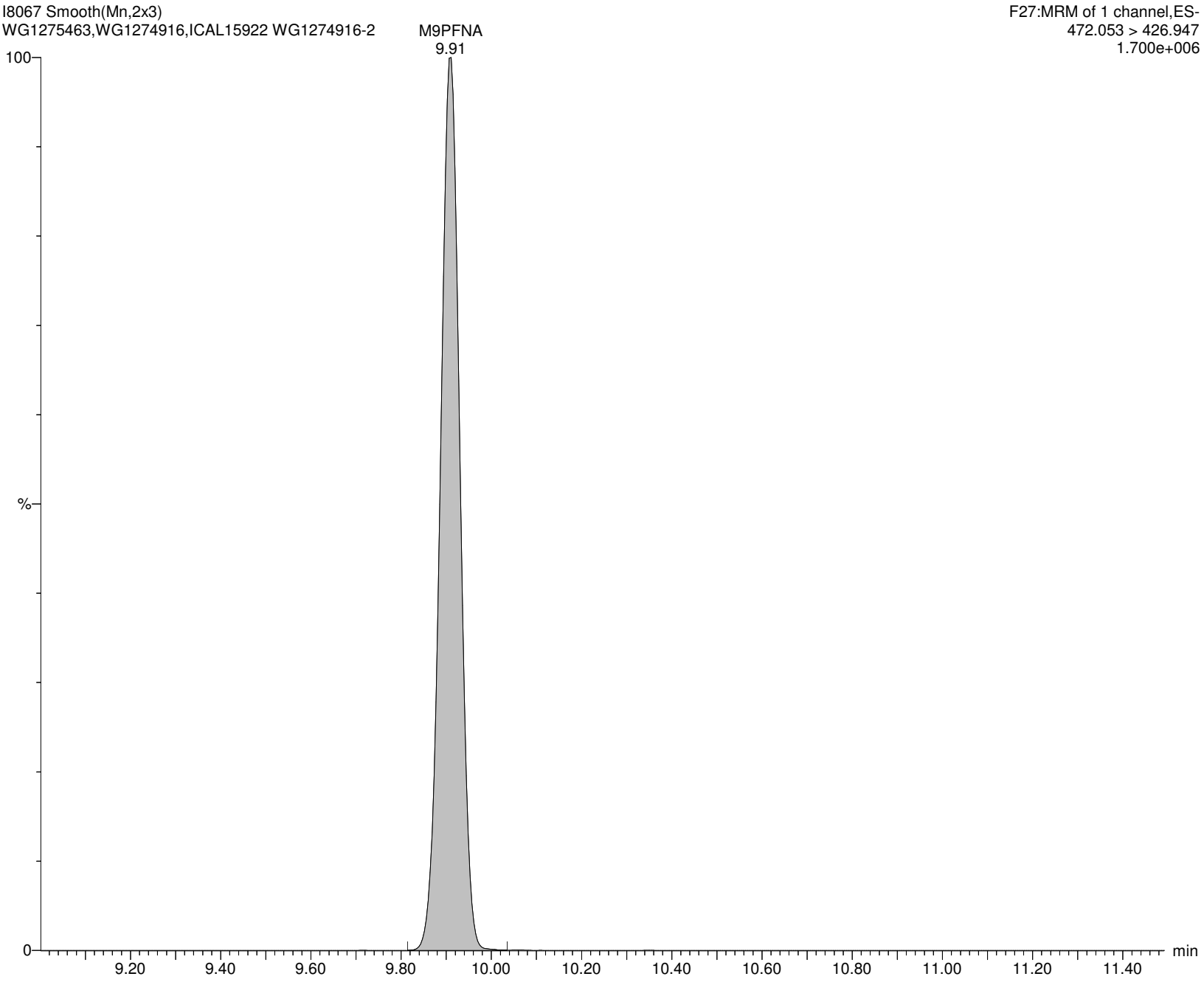


all concentration units in (ng/mL)

Alpha Analytical Inc.
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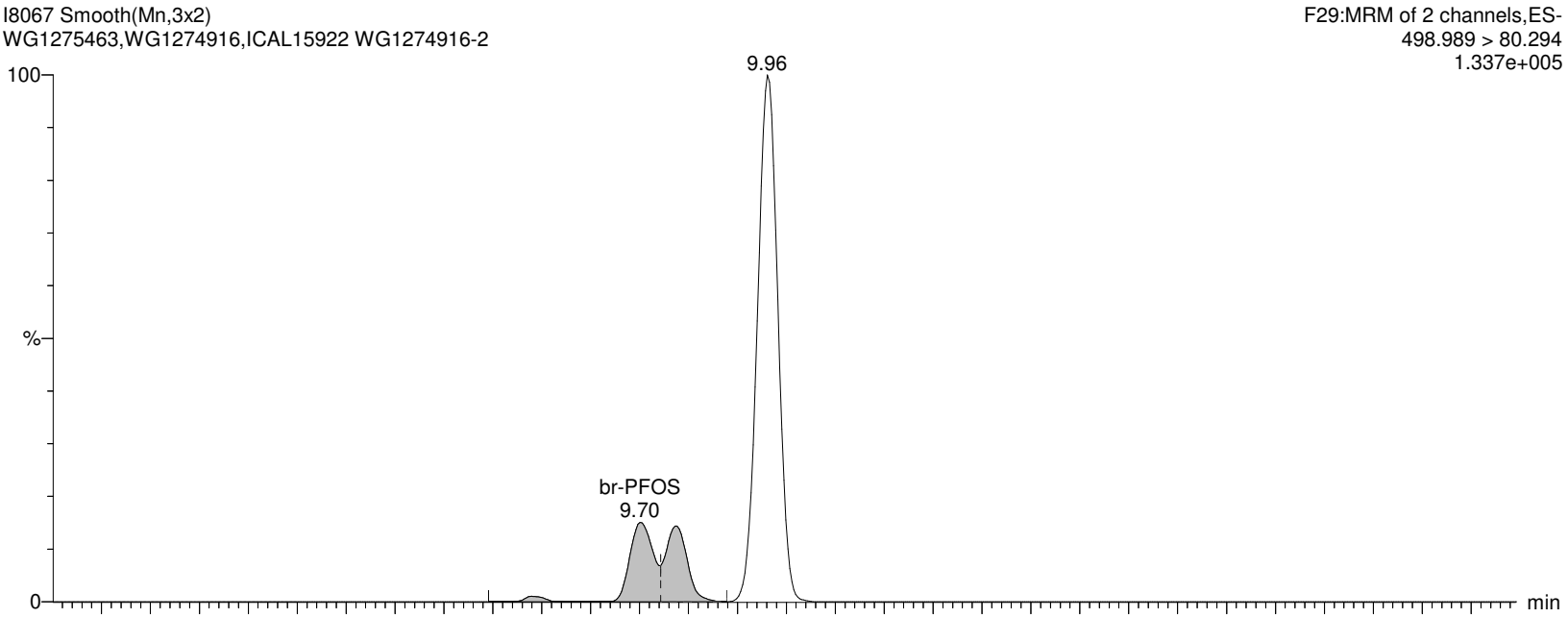


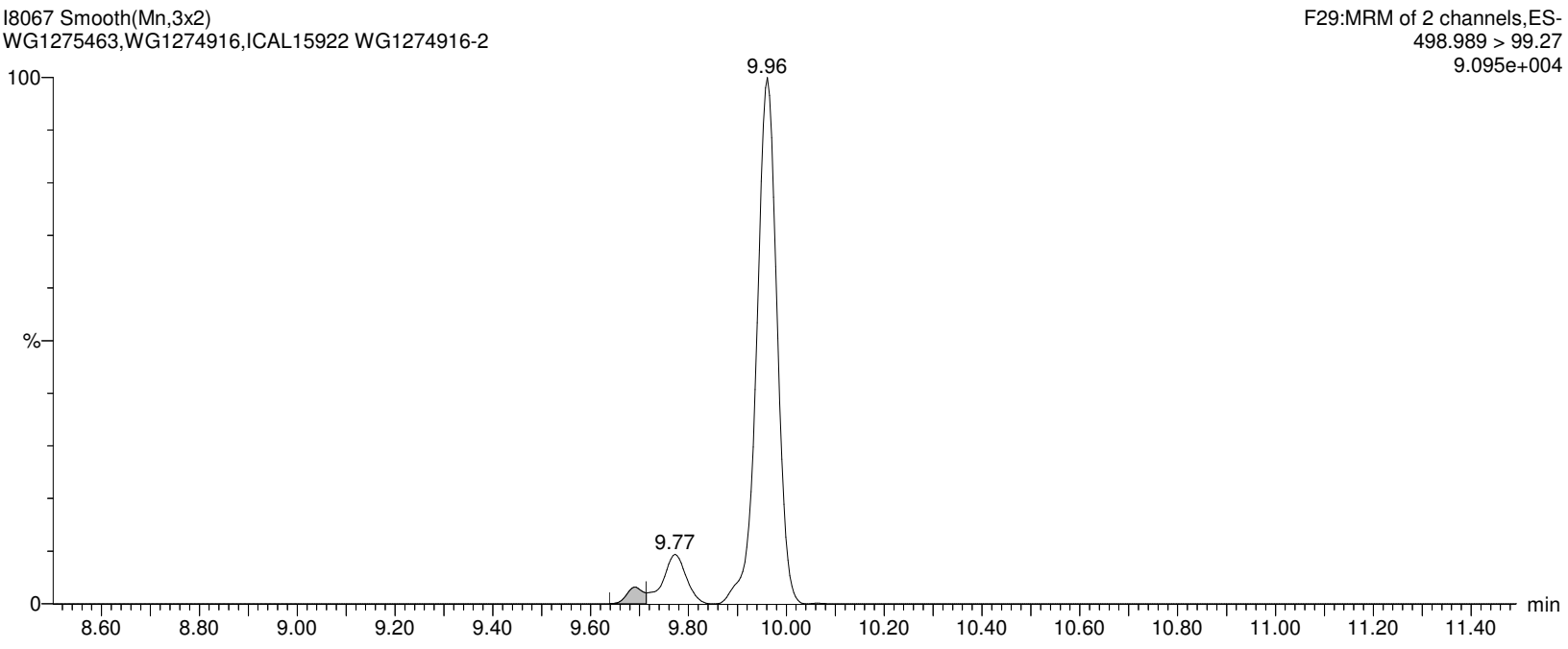
all concentration units in (ng/mL)

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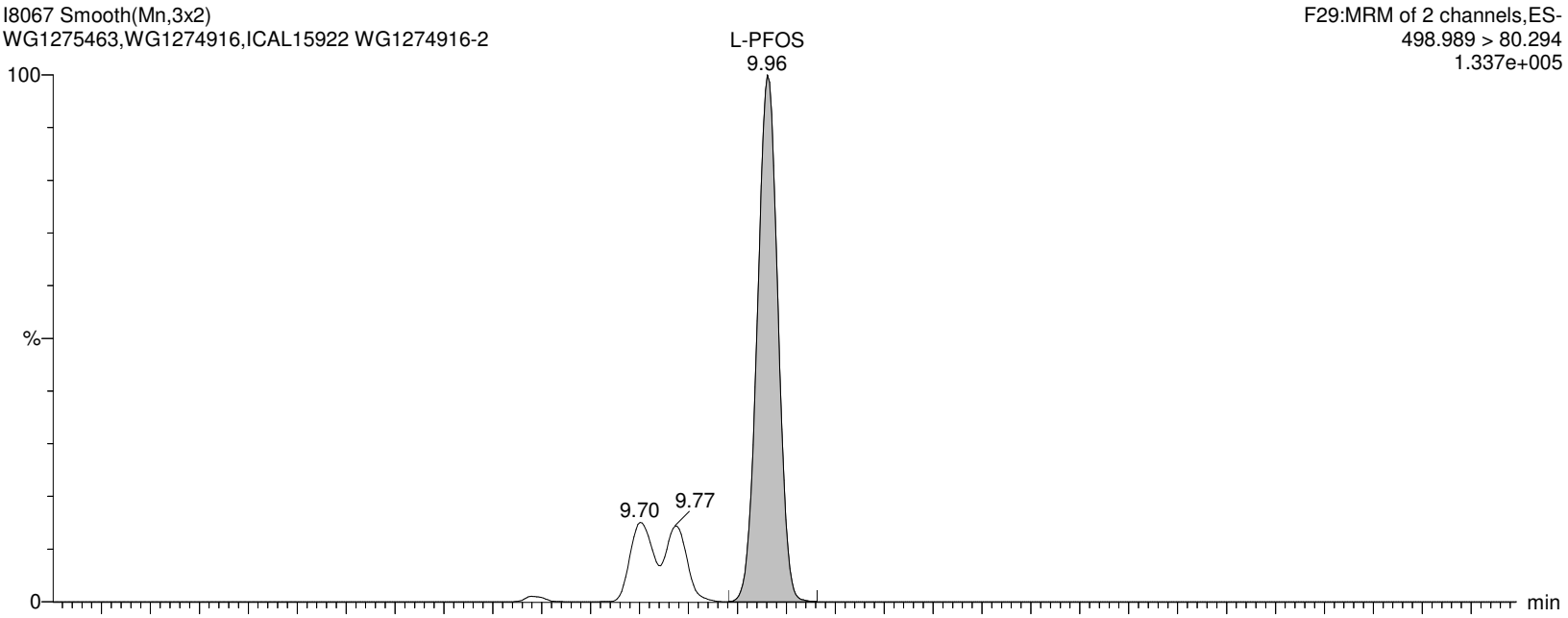


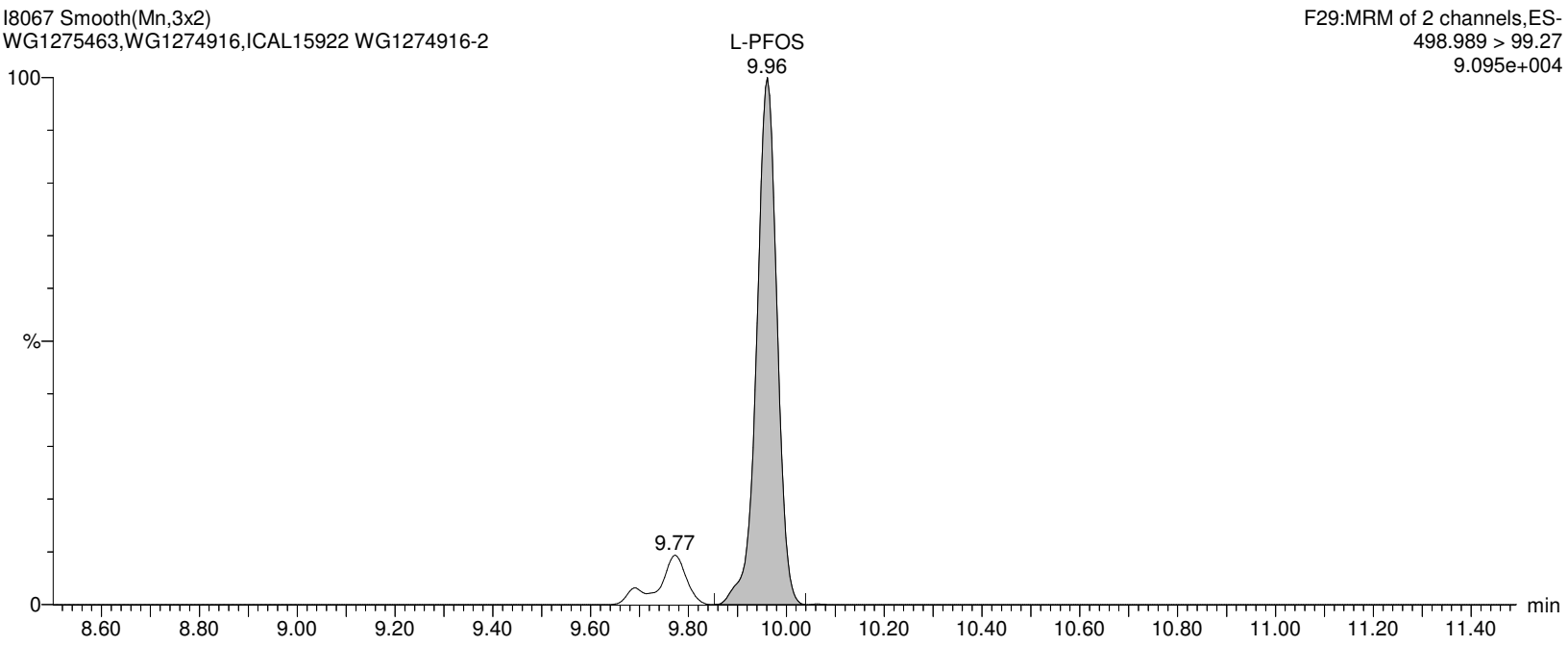
all concentration units in (ng/mL)

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L-PFOS



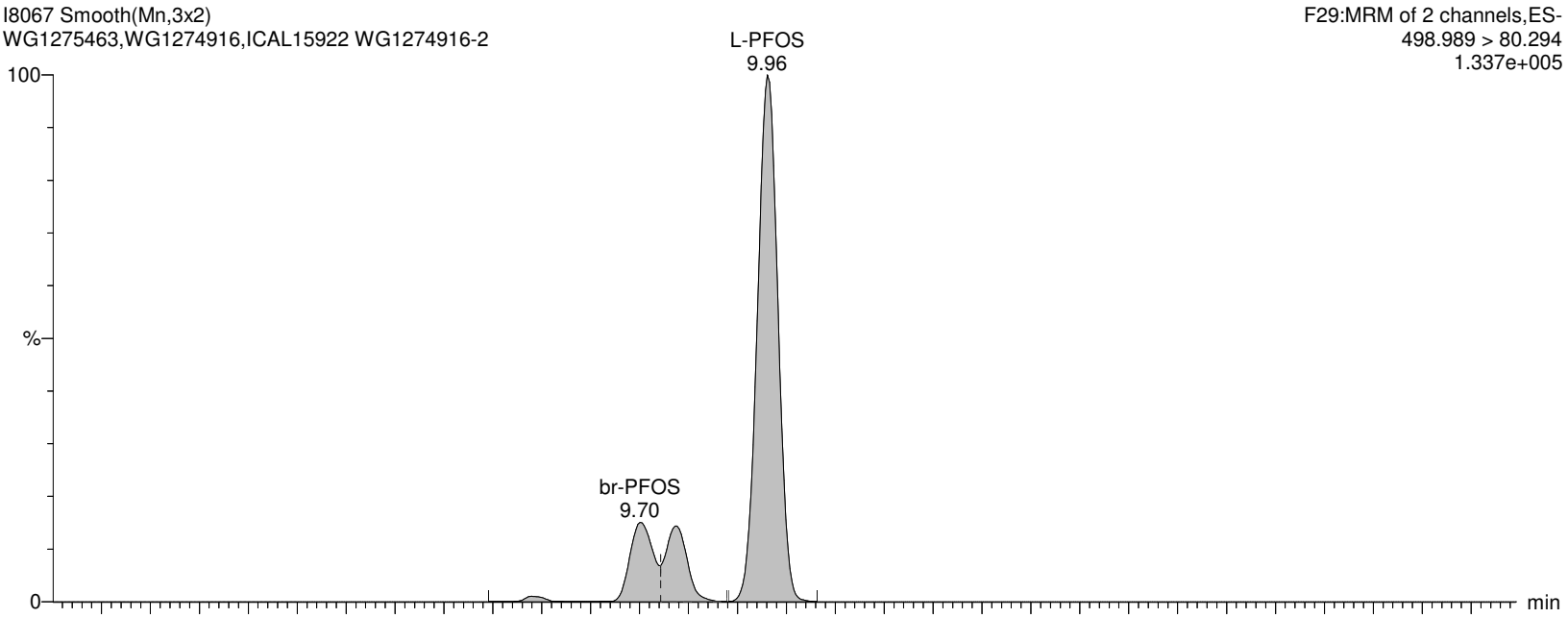


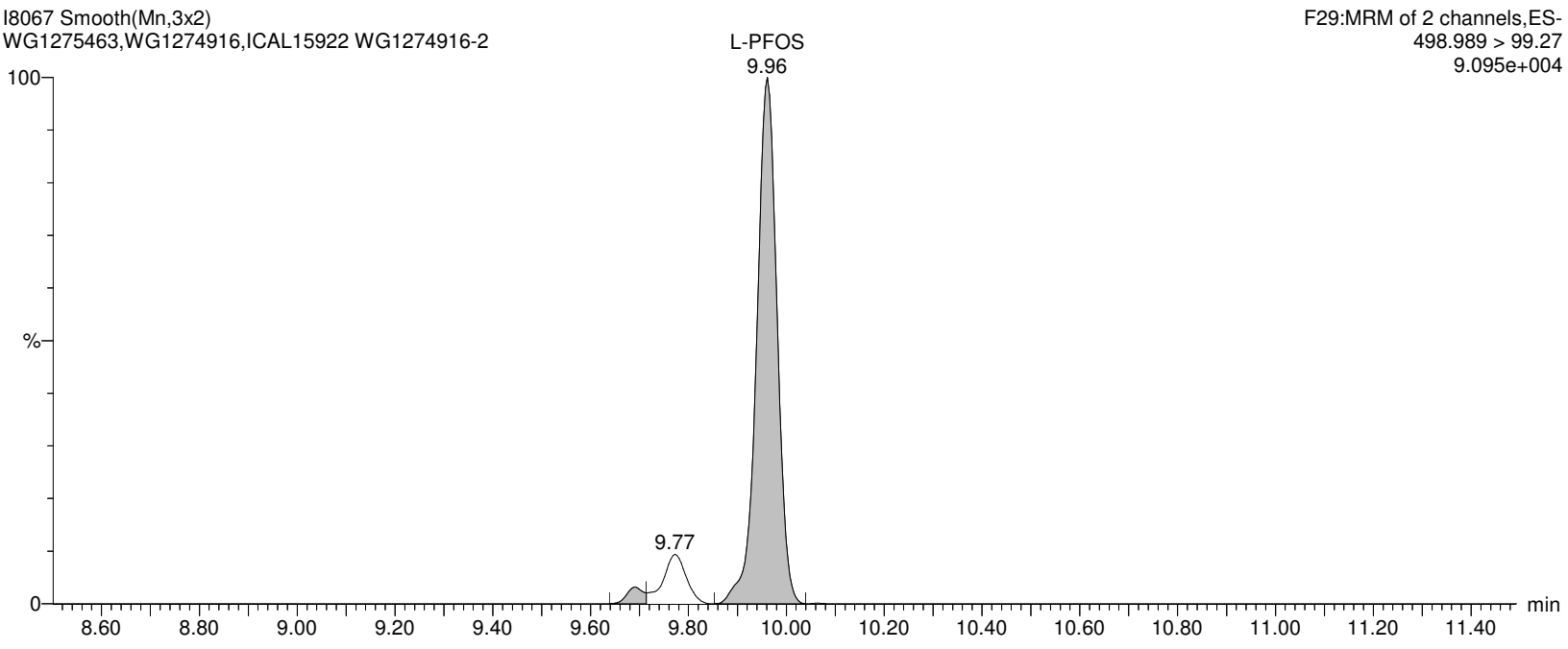
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
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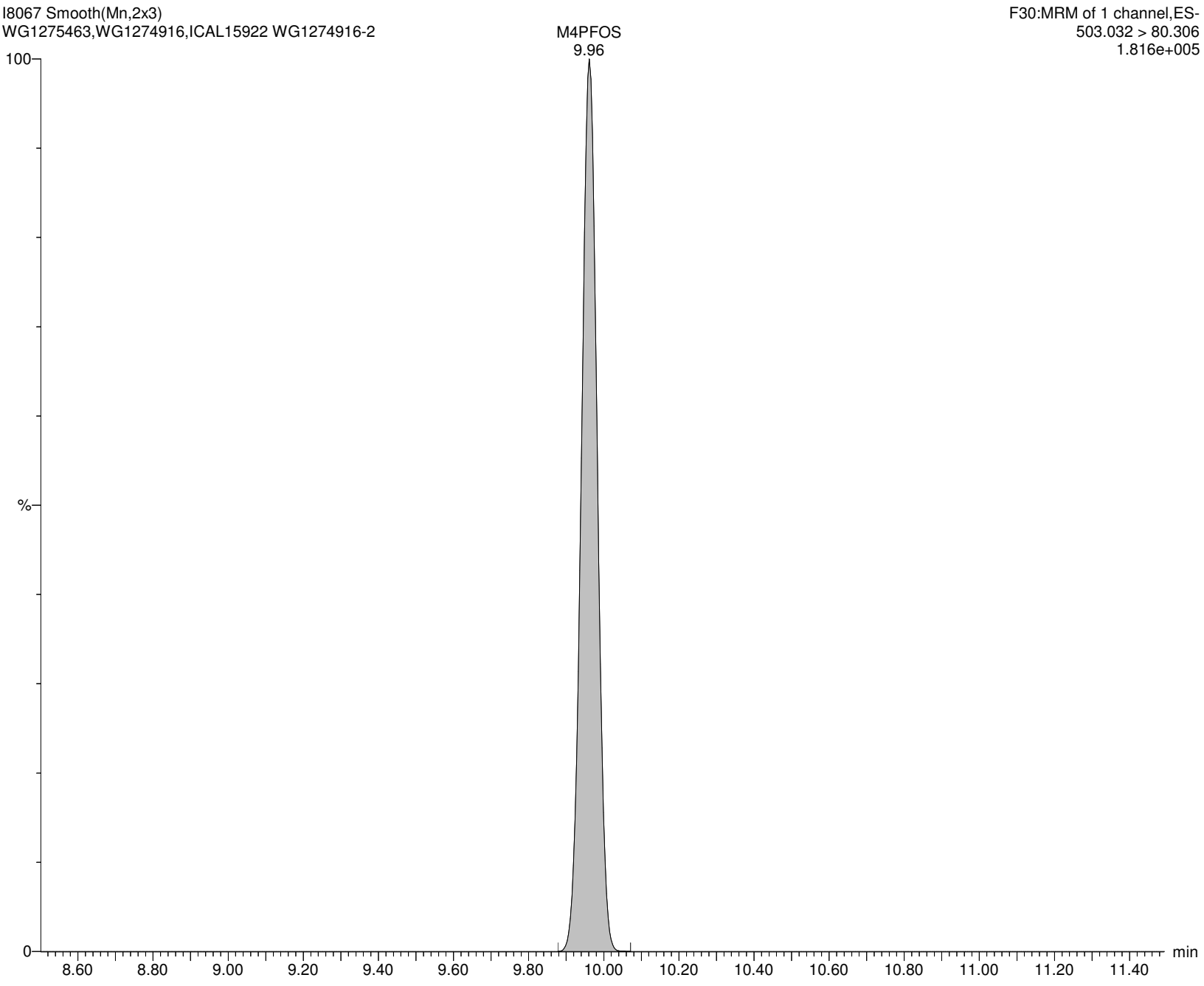


all concentration units in (ng/mL)

Alpha Analytical Inc.
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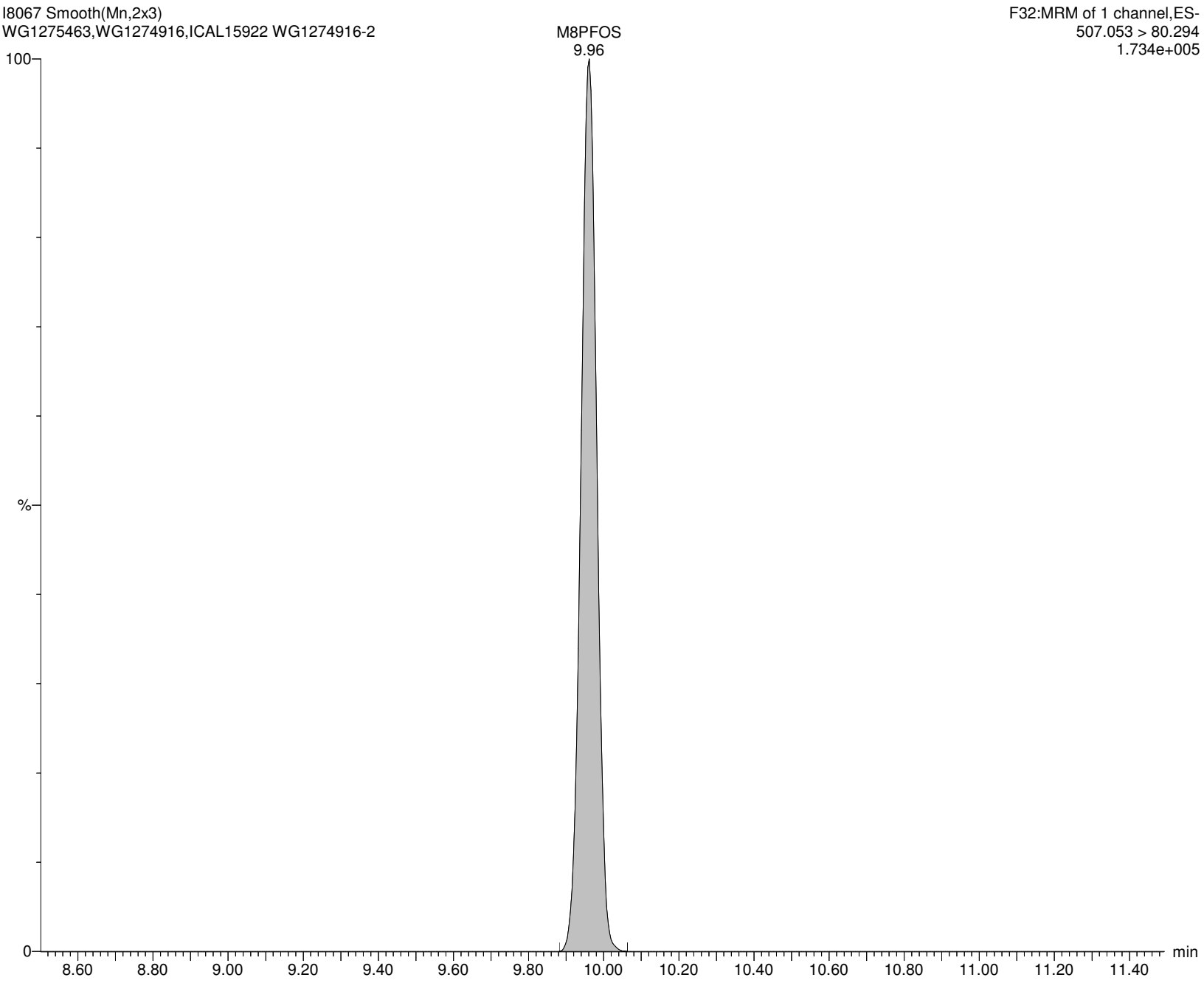


all concentration units in (ng/mL)

Alpha Analytical Inc.
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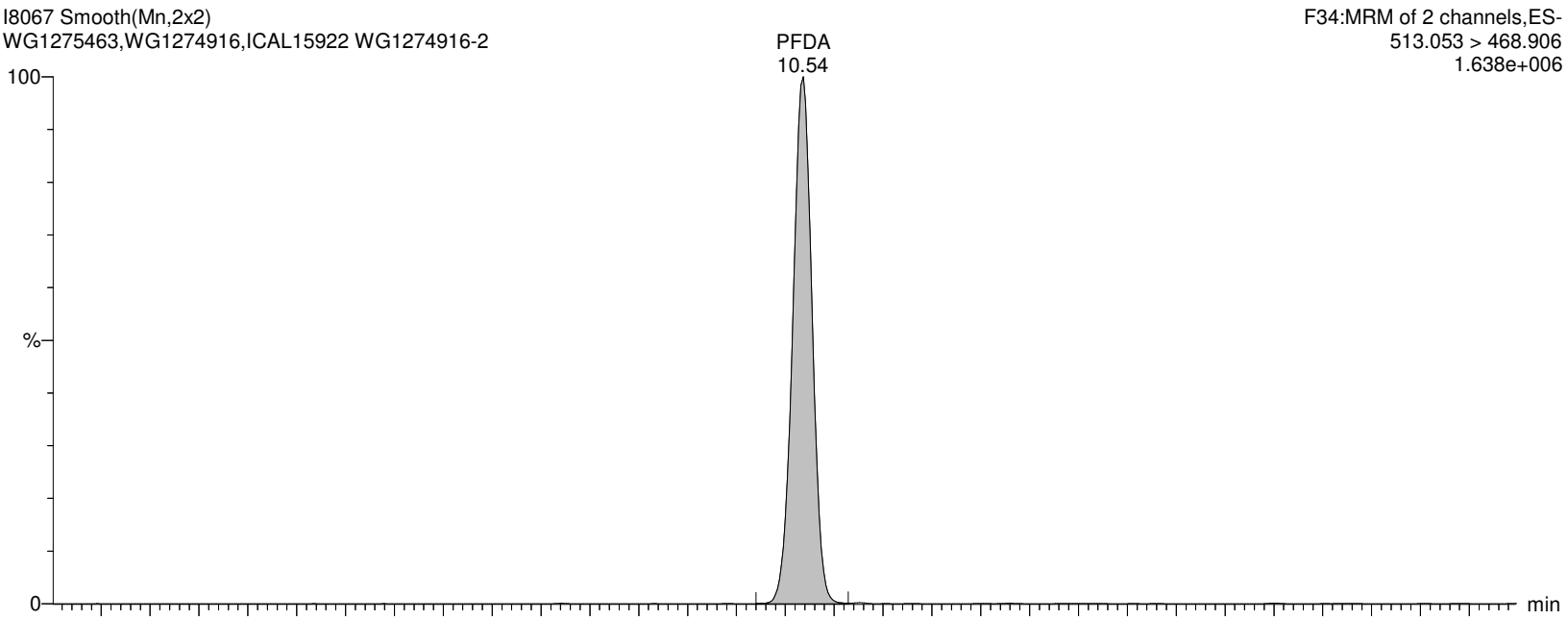


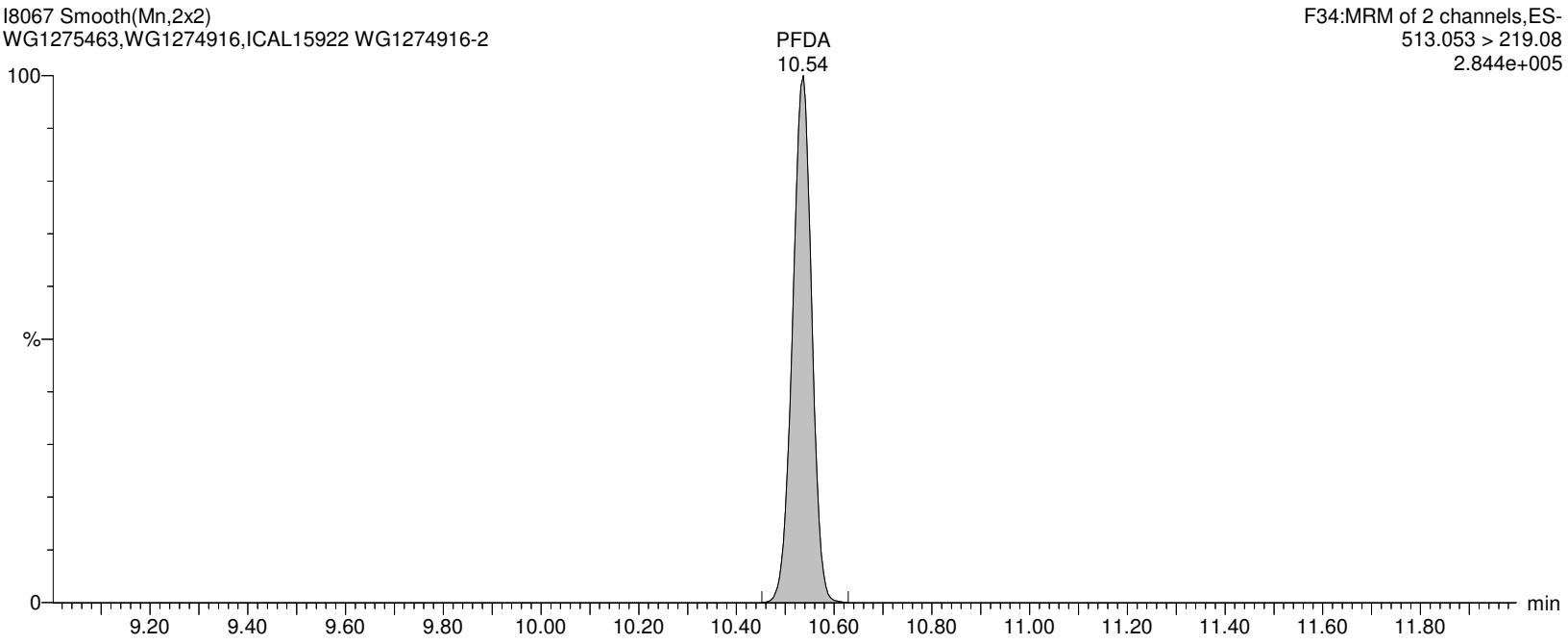
all concentration units in (ng/mL)

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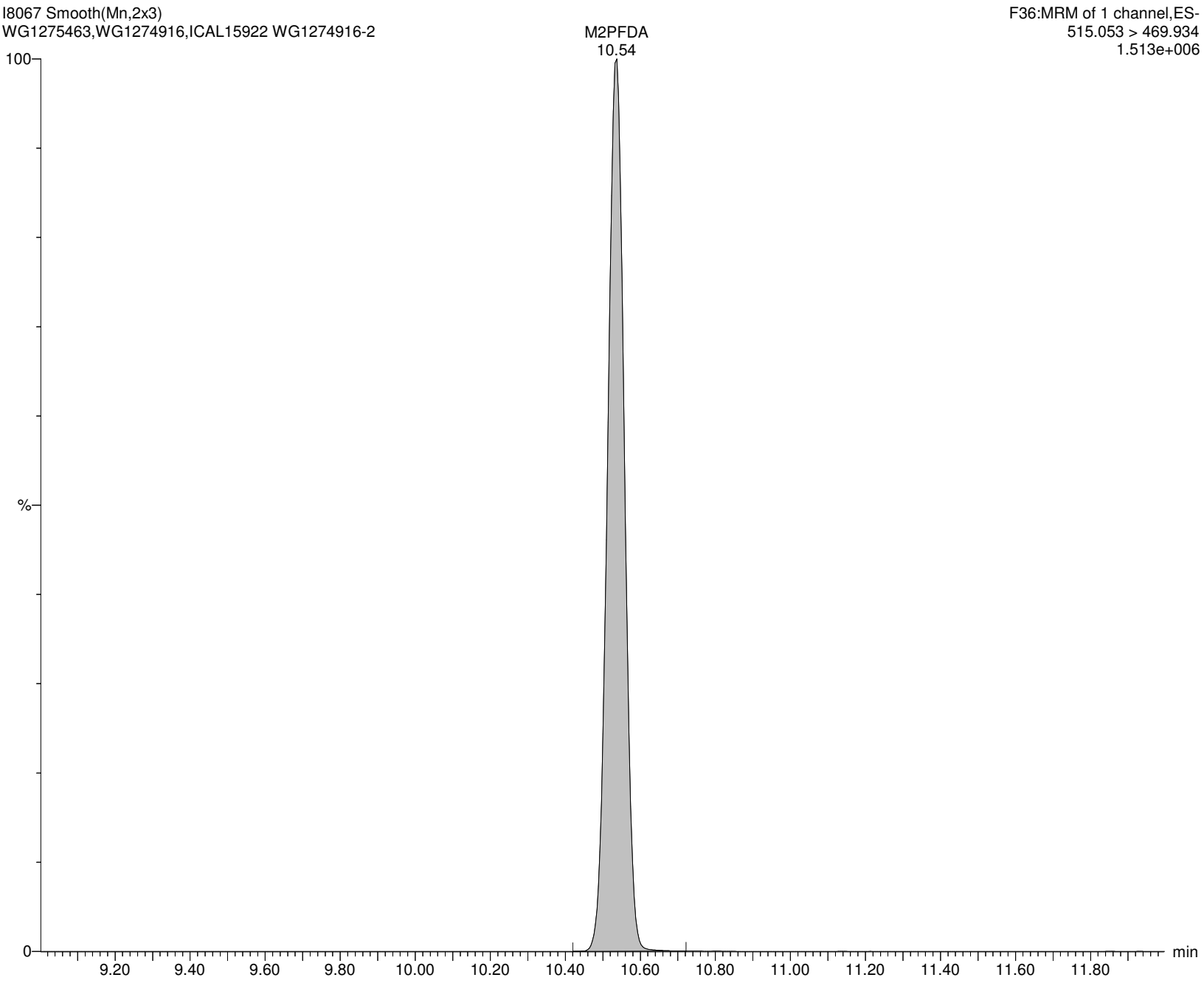


all concentration units in (ng/mL)

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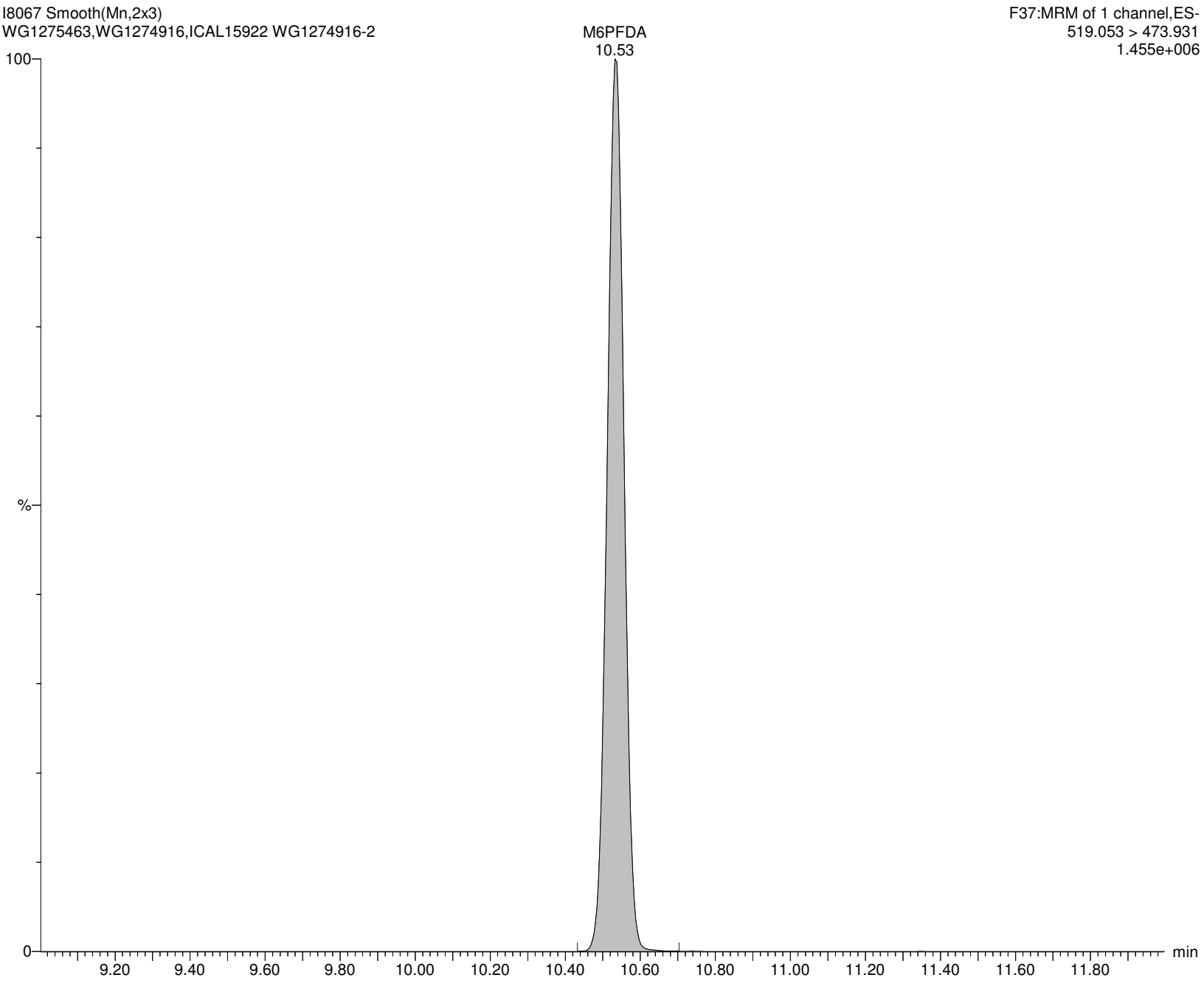


all concentration units in (ng/mL)

Alpha Analytical Inc.
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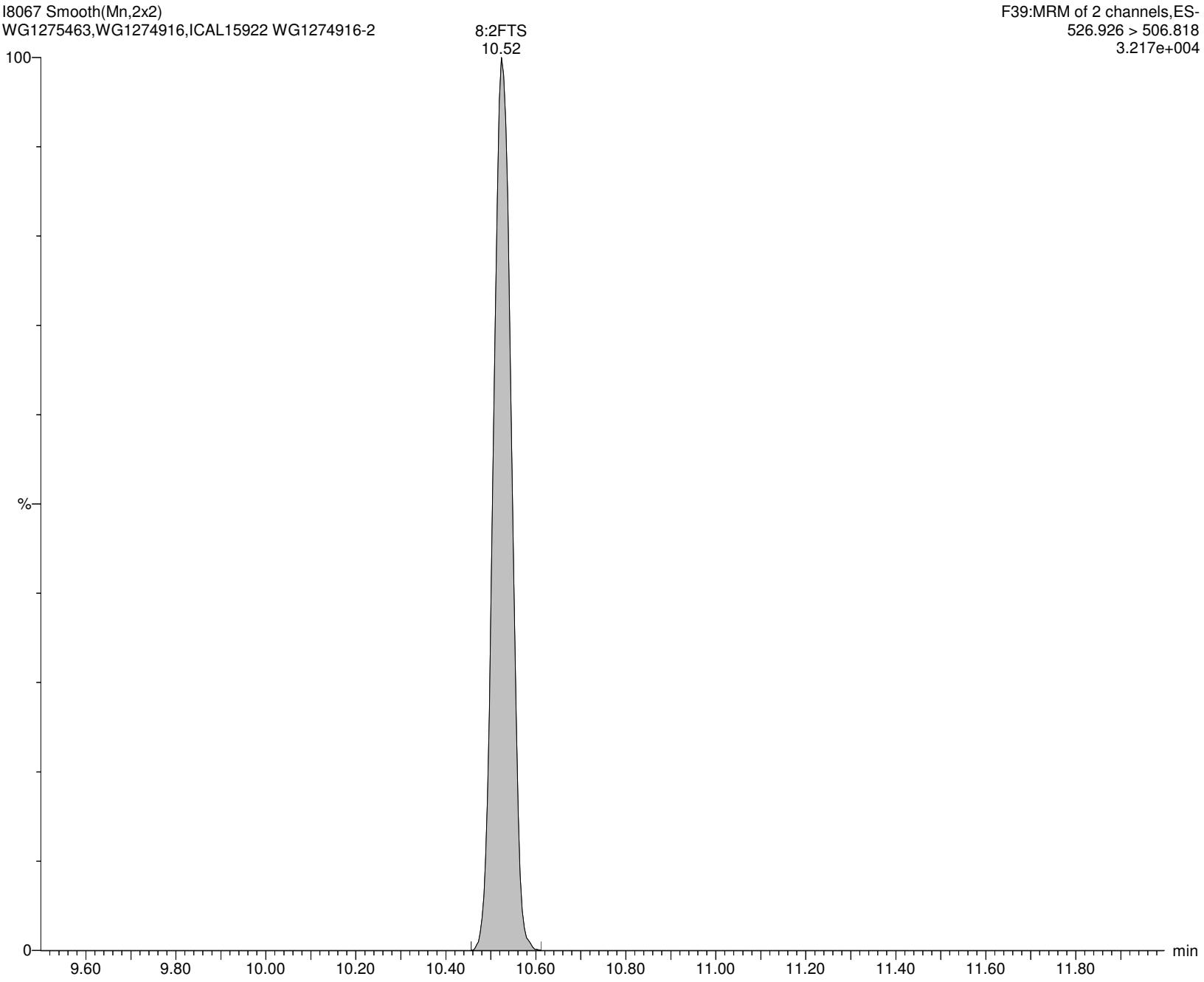


all concentration units in (ng/mL)

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8:2FTS

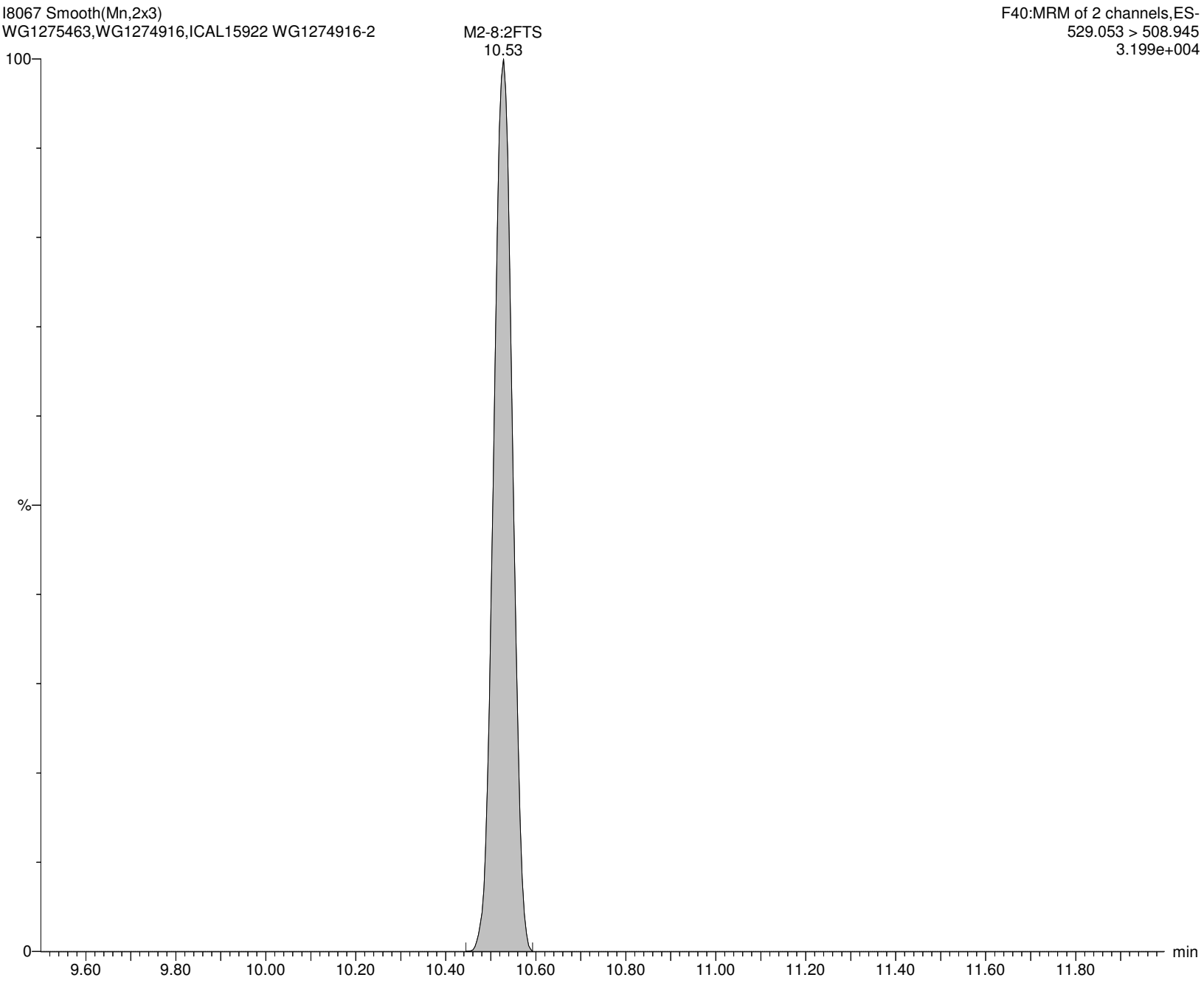


all concentration units in (ng/mL)

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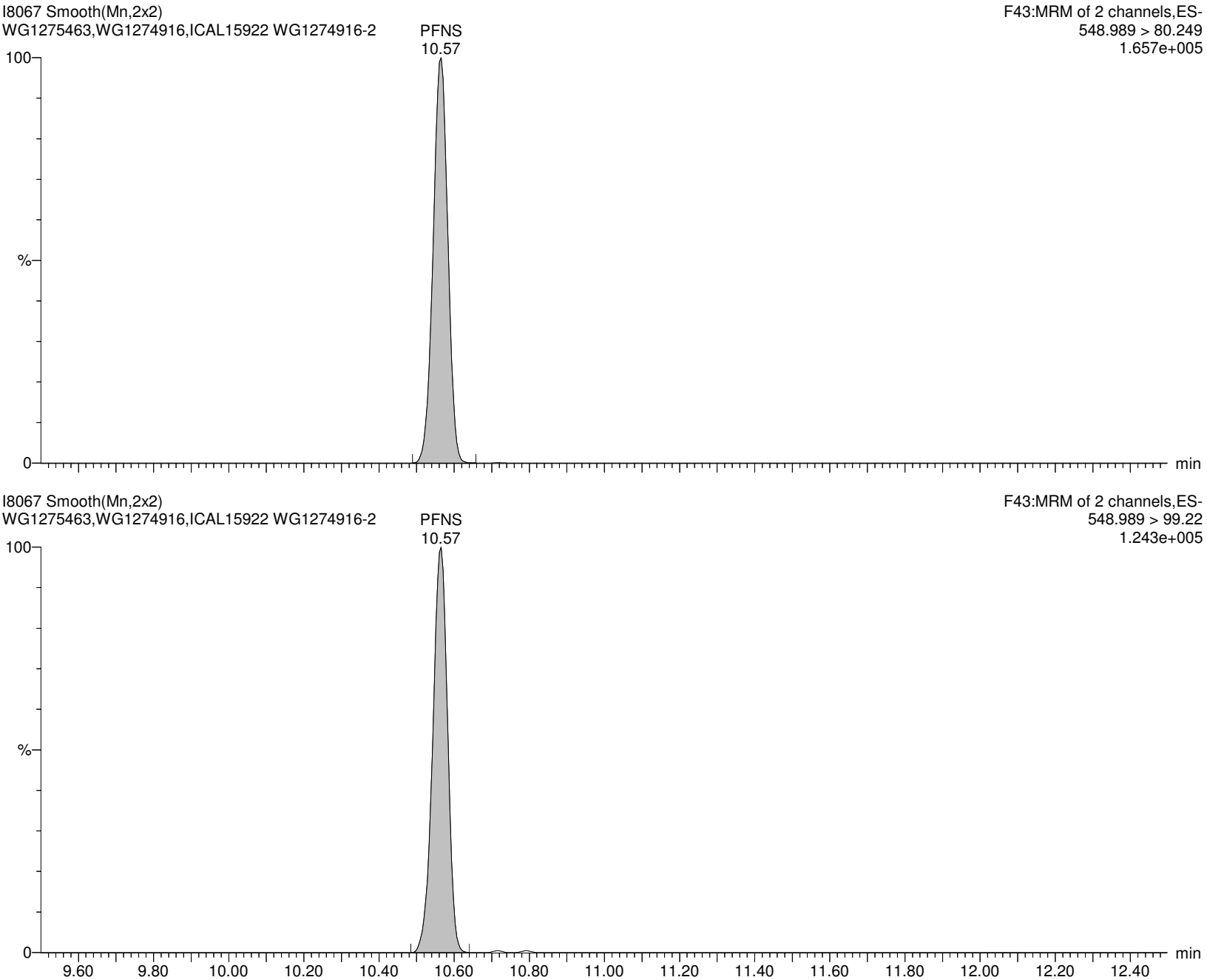


all concentration units in (ng/mL)

Alpha Analytical Inc.
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PFNS

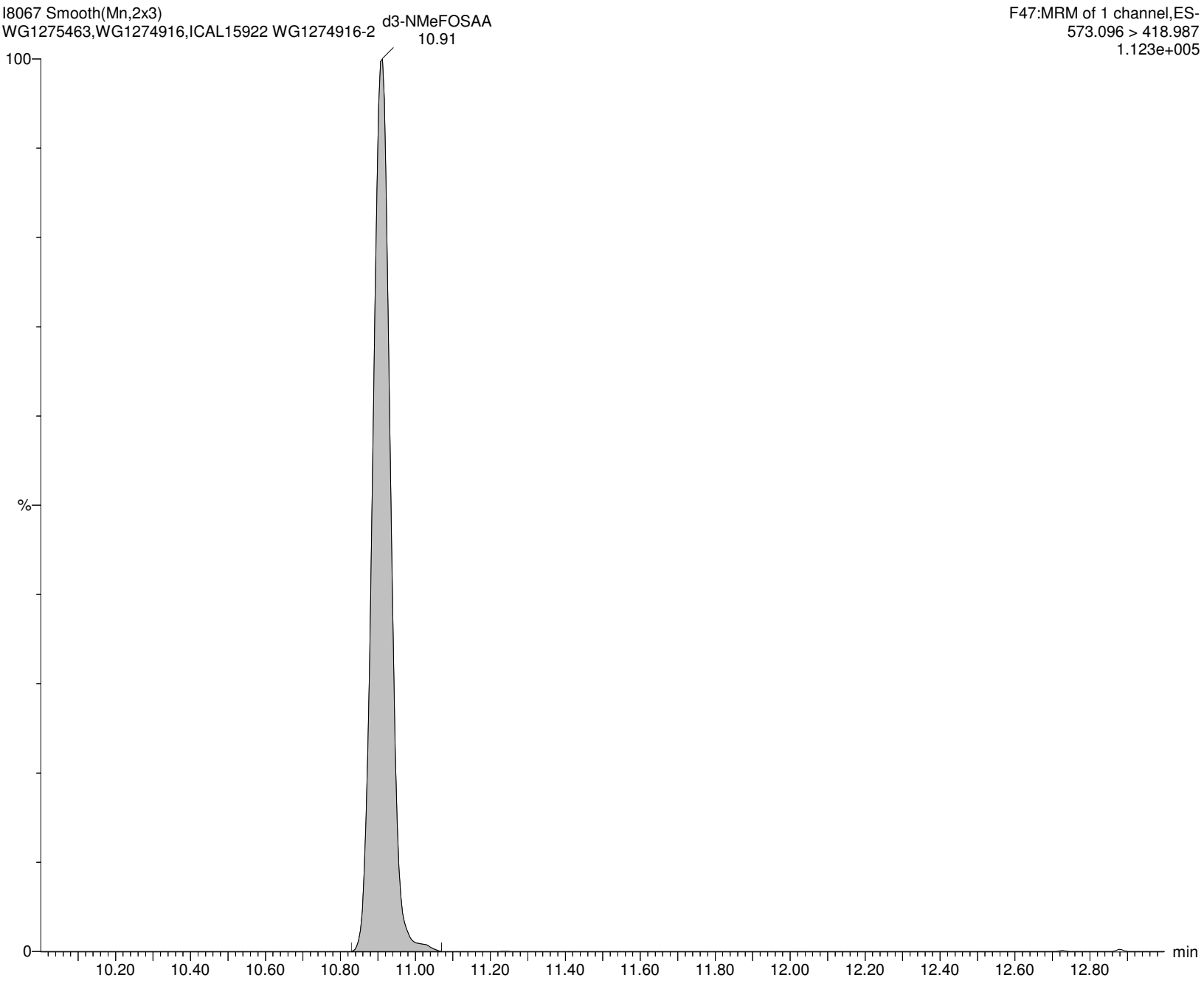


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
Last Altered: Thursday, August 22, 2019 13:45:42 Eastern Daylight Time
Printed: Thursday, August 22, 2019 13:49:28 Eastern Daylight Time

Name: I8067
ID: WG1274916-2
Date: 22-Aug-2019
Time: 12:00:39
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:B,7
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\181009_TUNE.IPR
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d3-NMeFOSAA

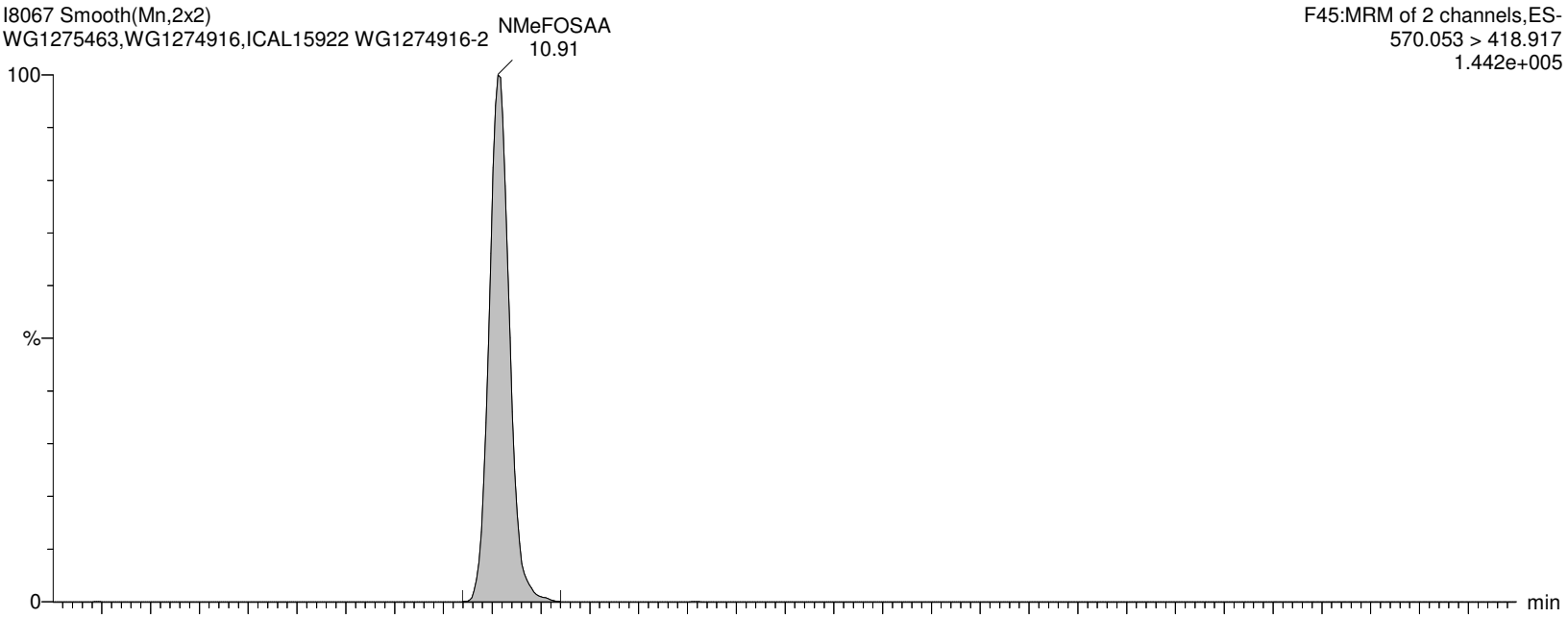


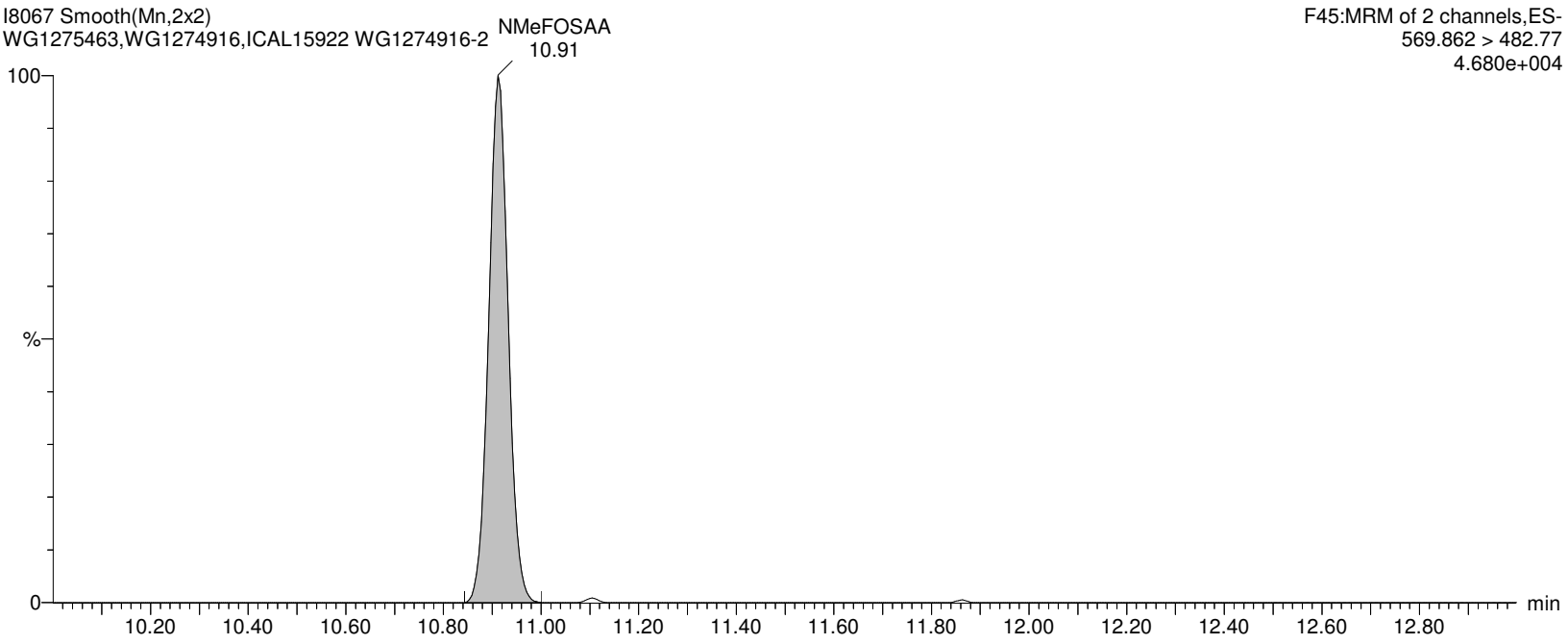
all concentration units in (ng/mL)

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NMeFOSAA



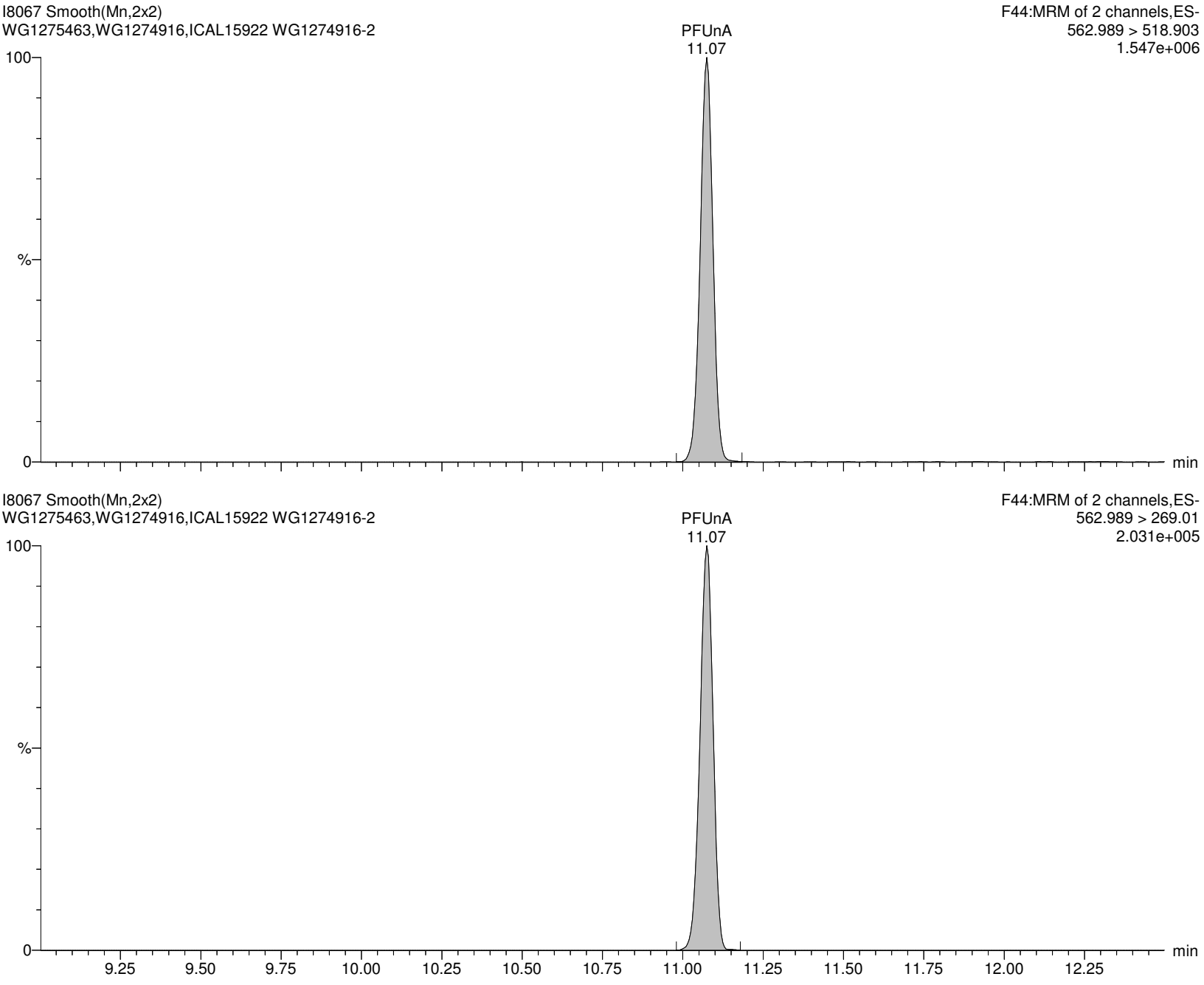


all concentration units in (ng/mL)

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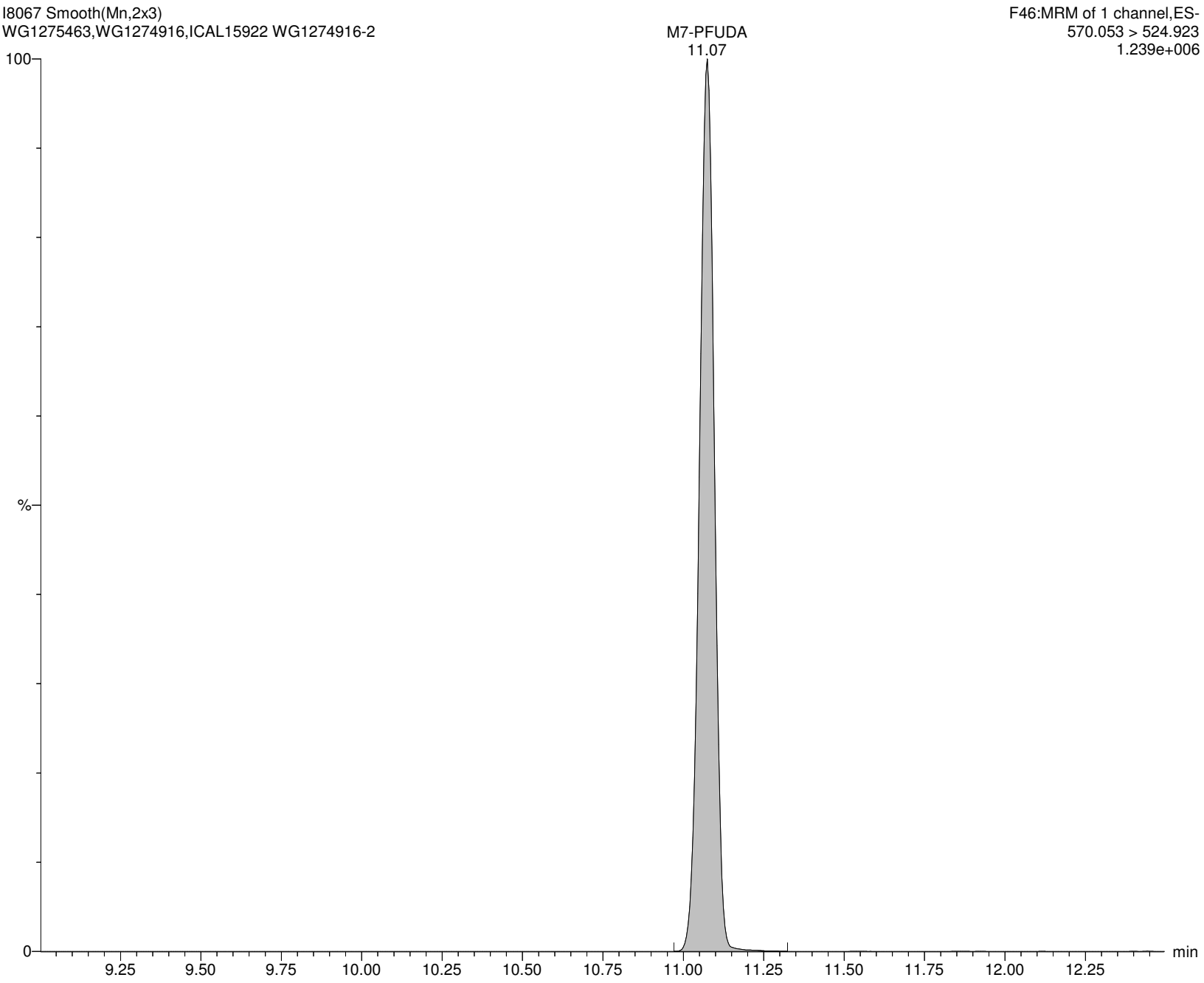


all concentration units in (ng/mL)

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M7-PFUDA

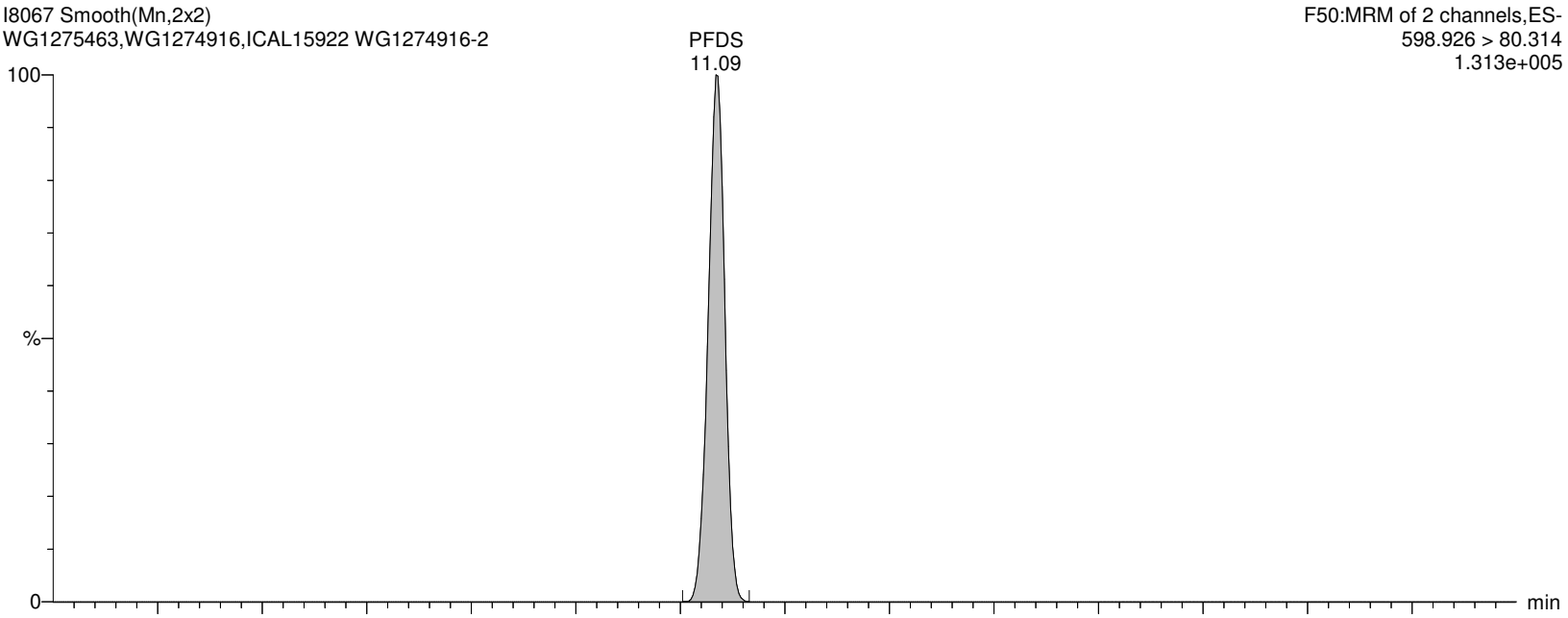


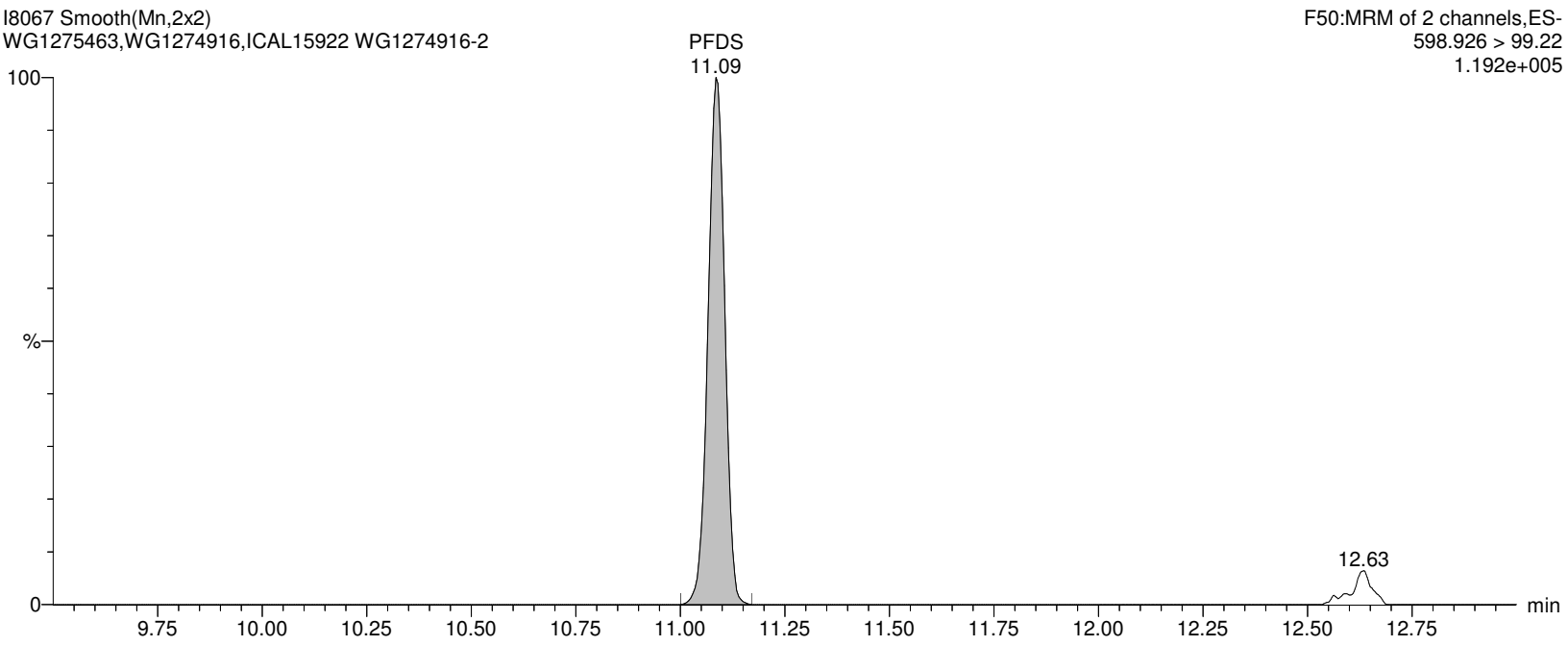
all concentration units in (ng/mL)

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PFDS



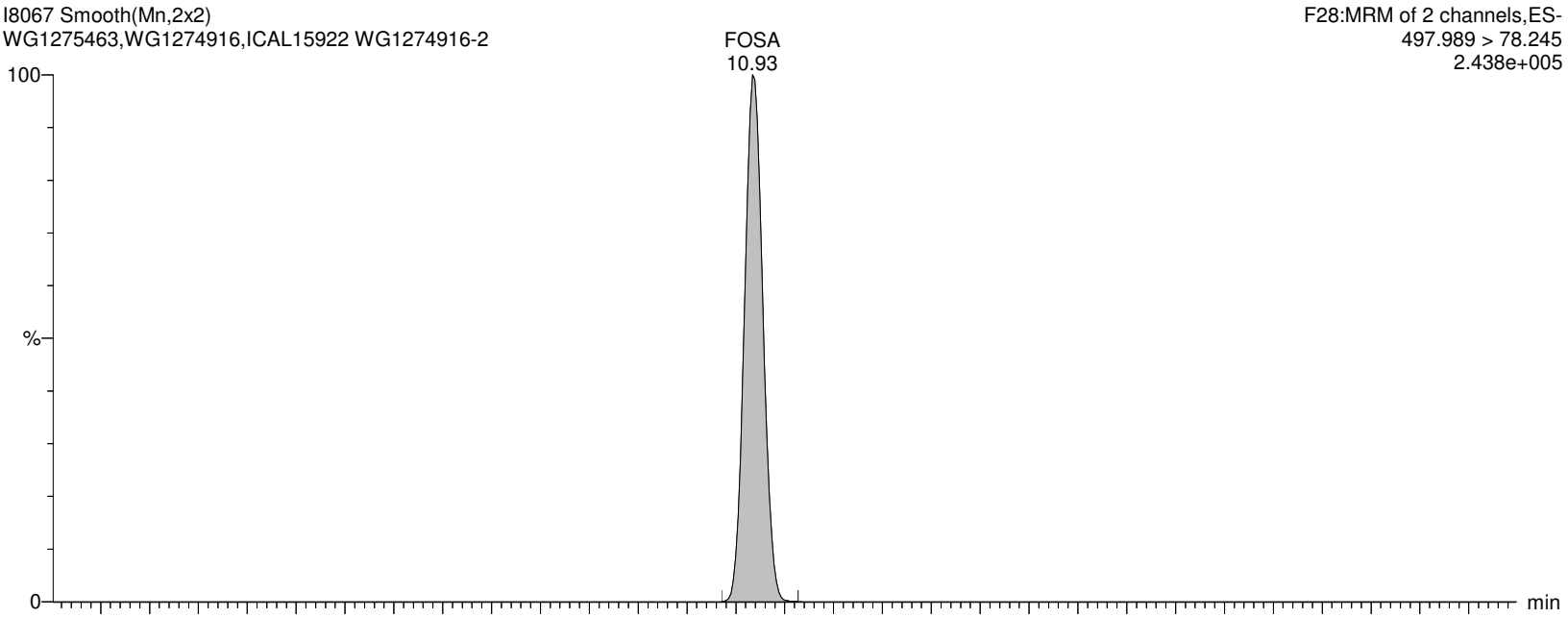


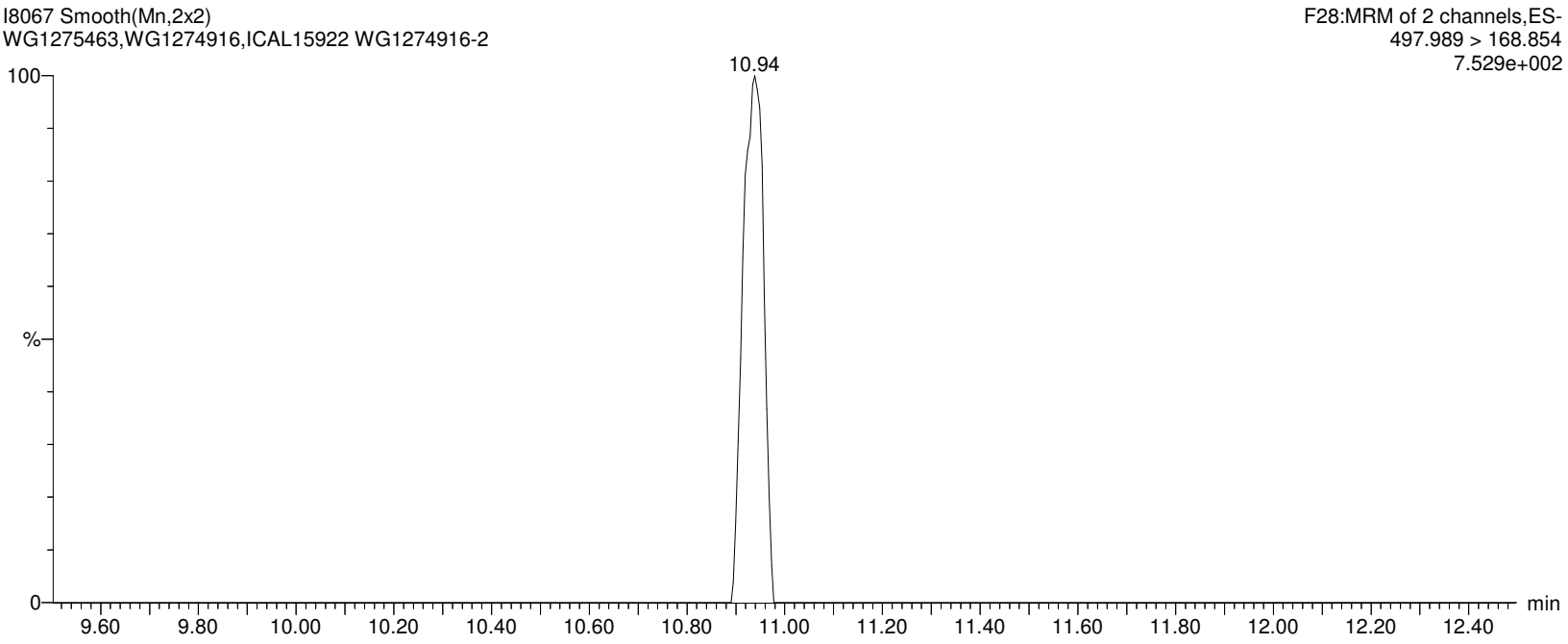
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FOSA



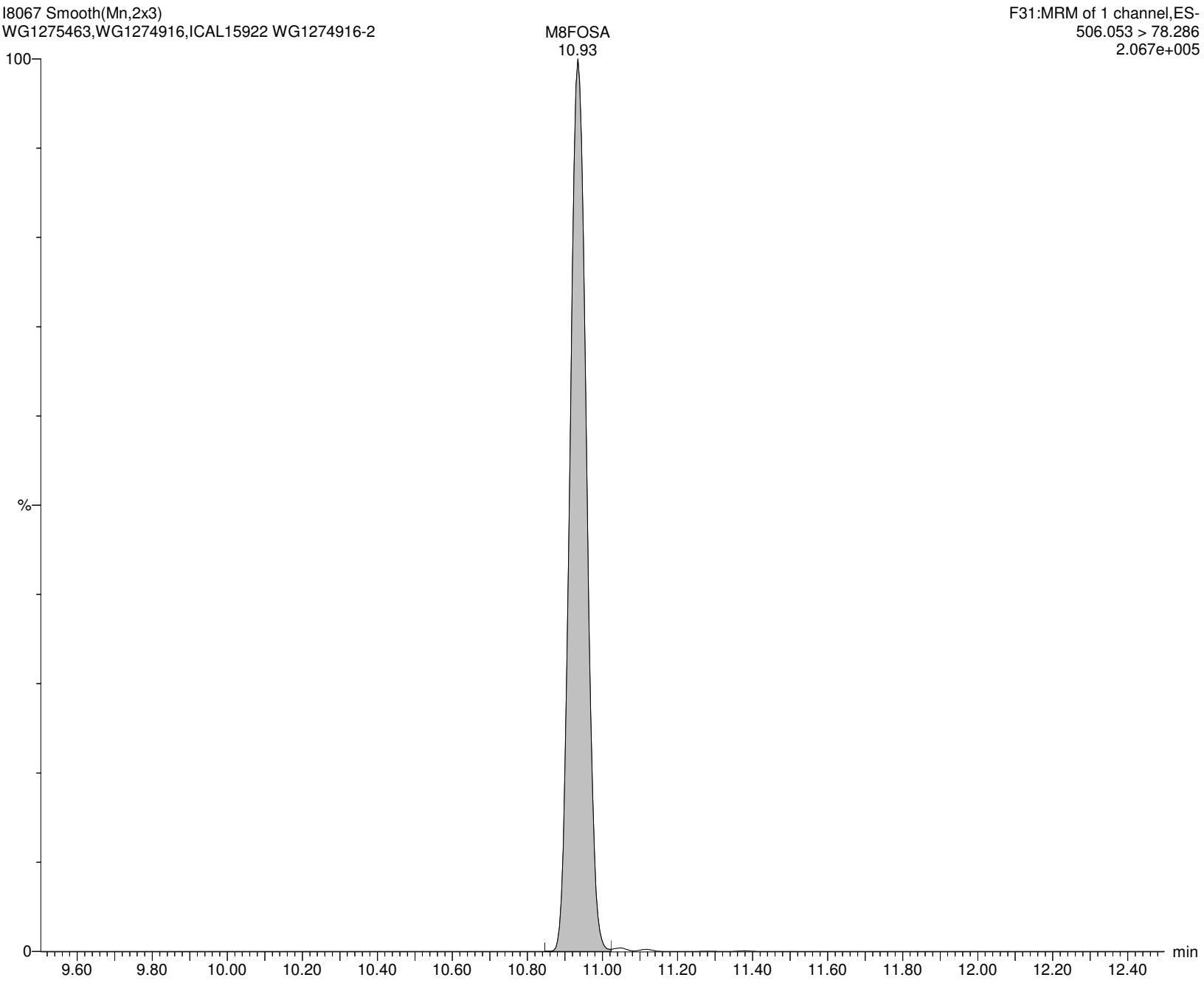


all concentration units in (ng/mL)

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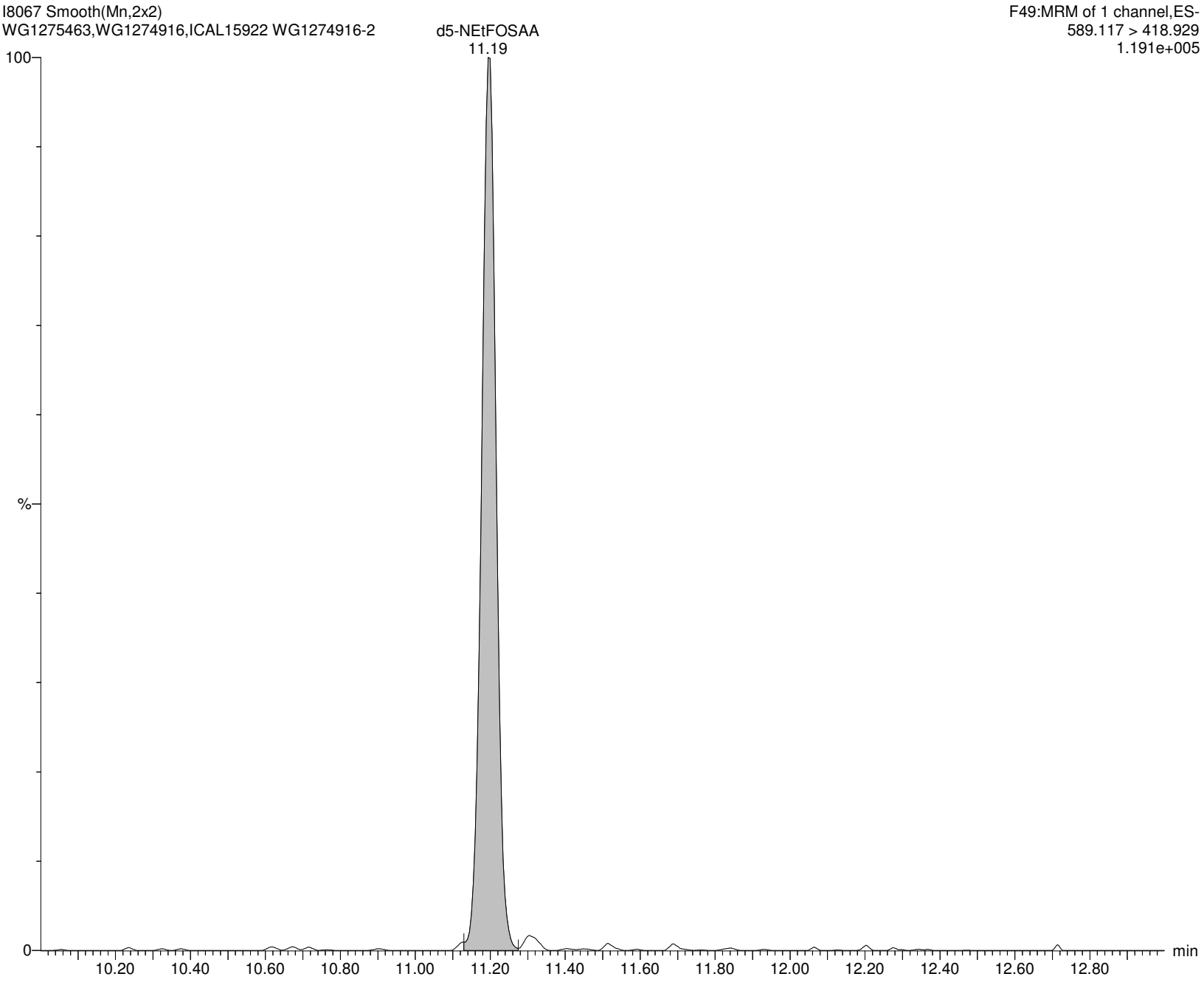


all concentration units in (ng/mL)

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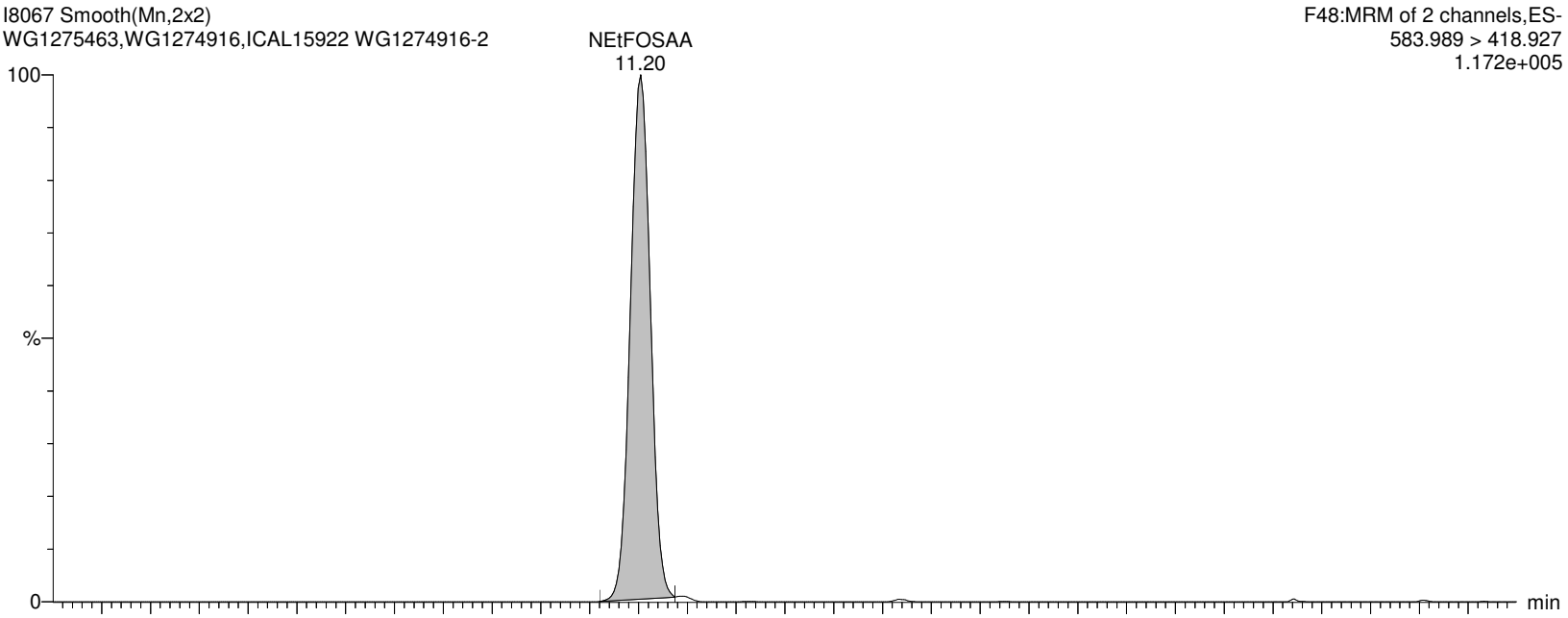


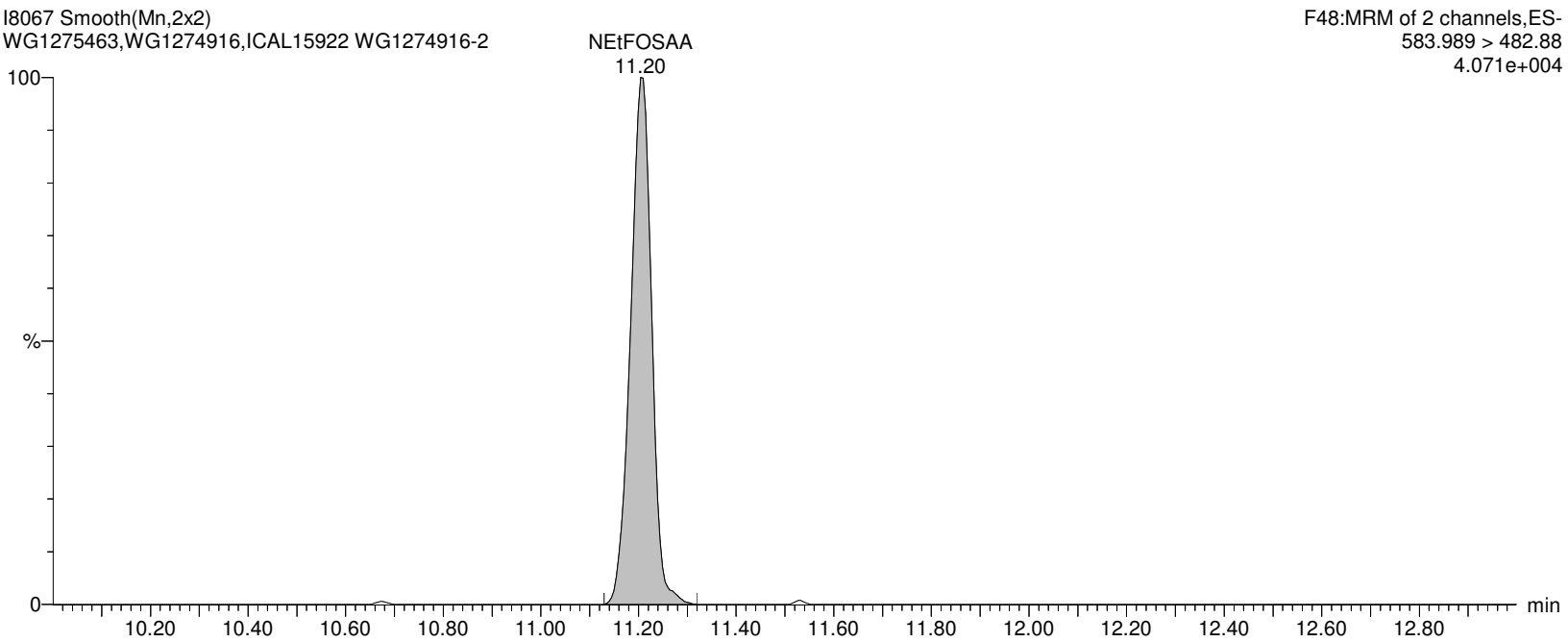
all concentration units in (ng/mL)

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NEtFOSAA



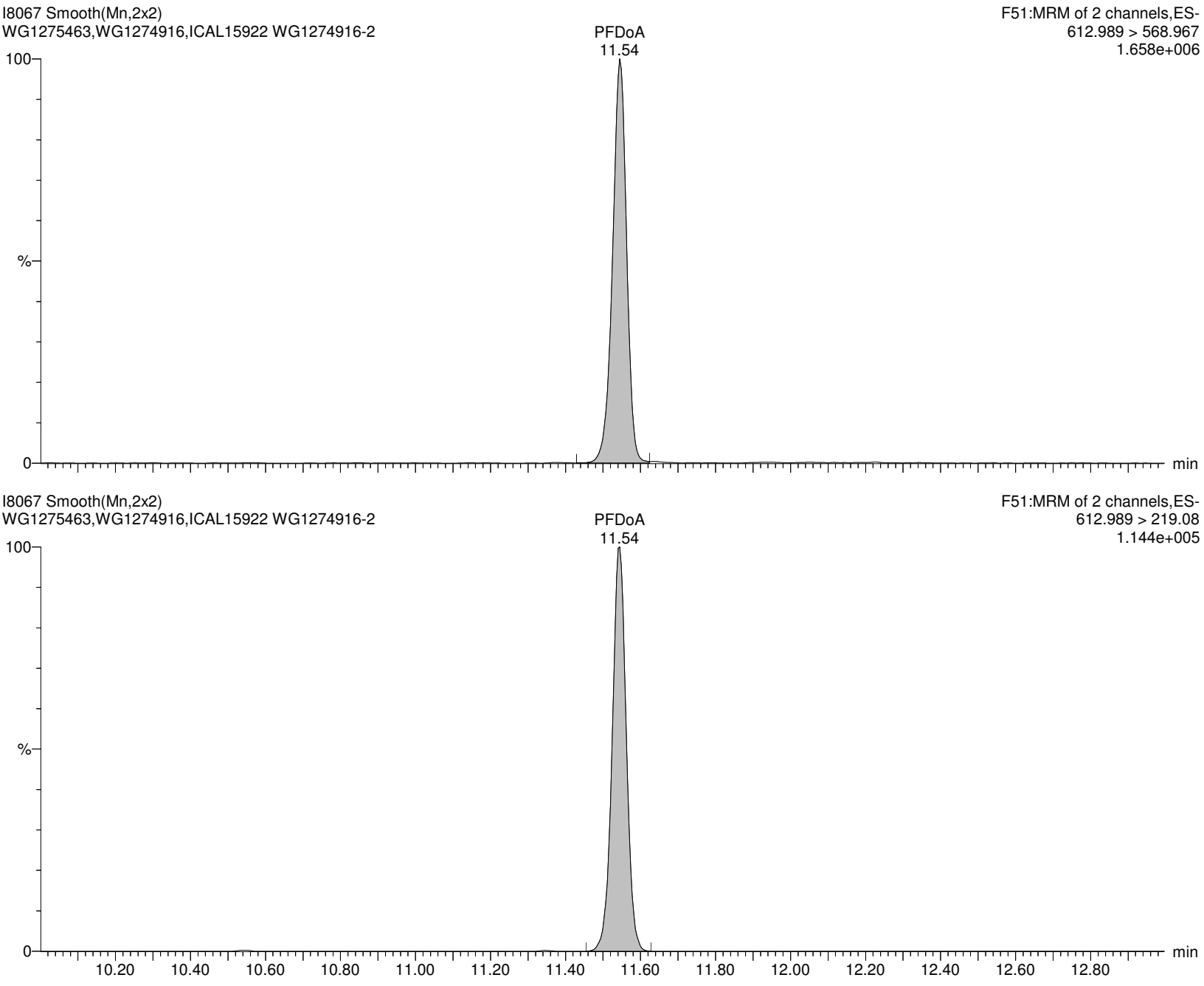


all concentration units in (ng/mL)

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PFDoA

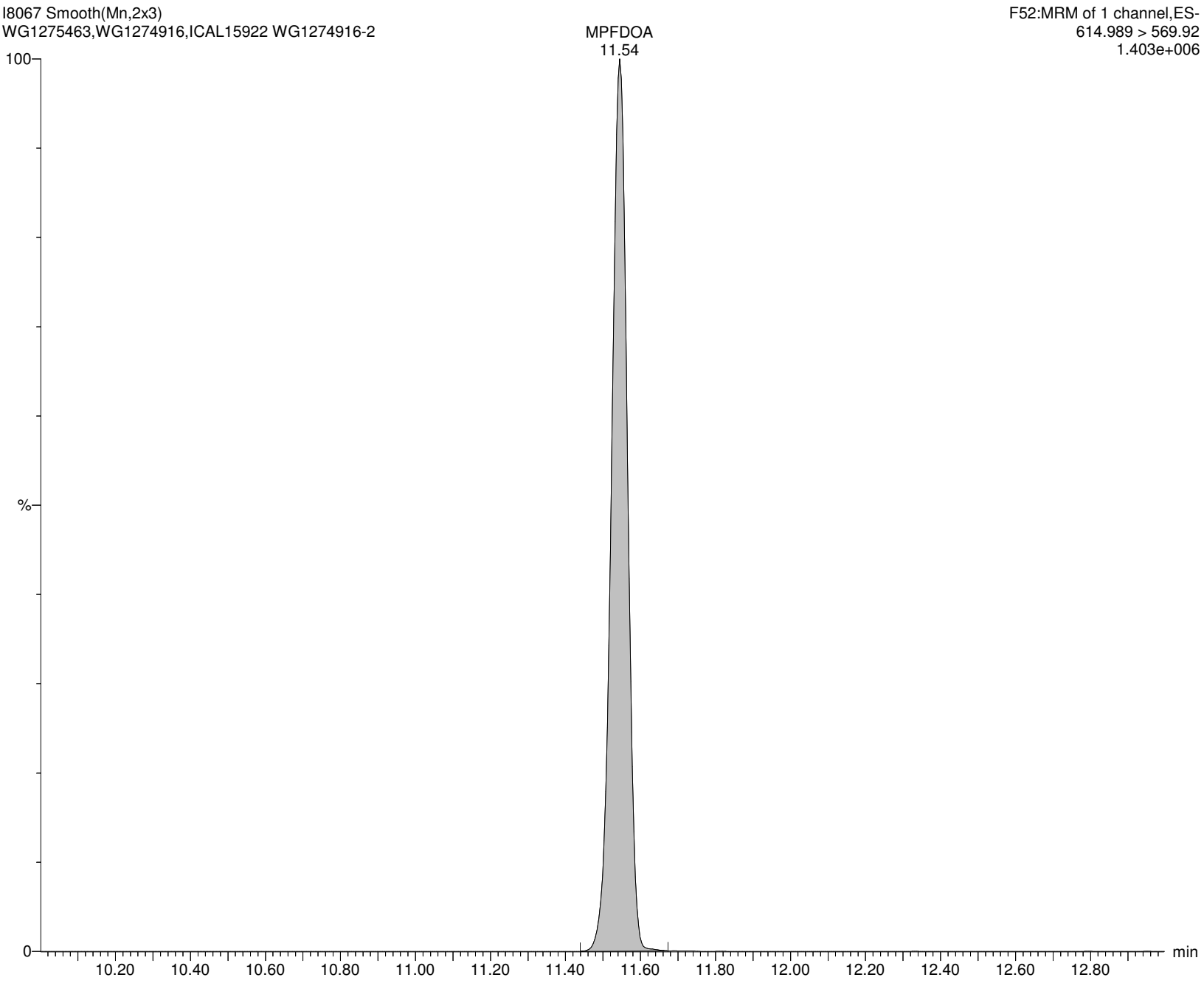


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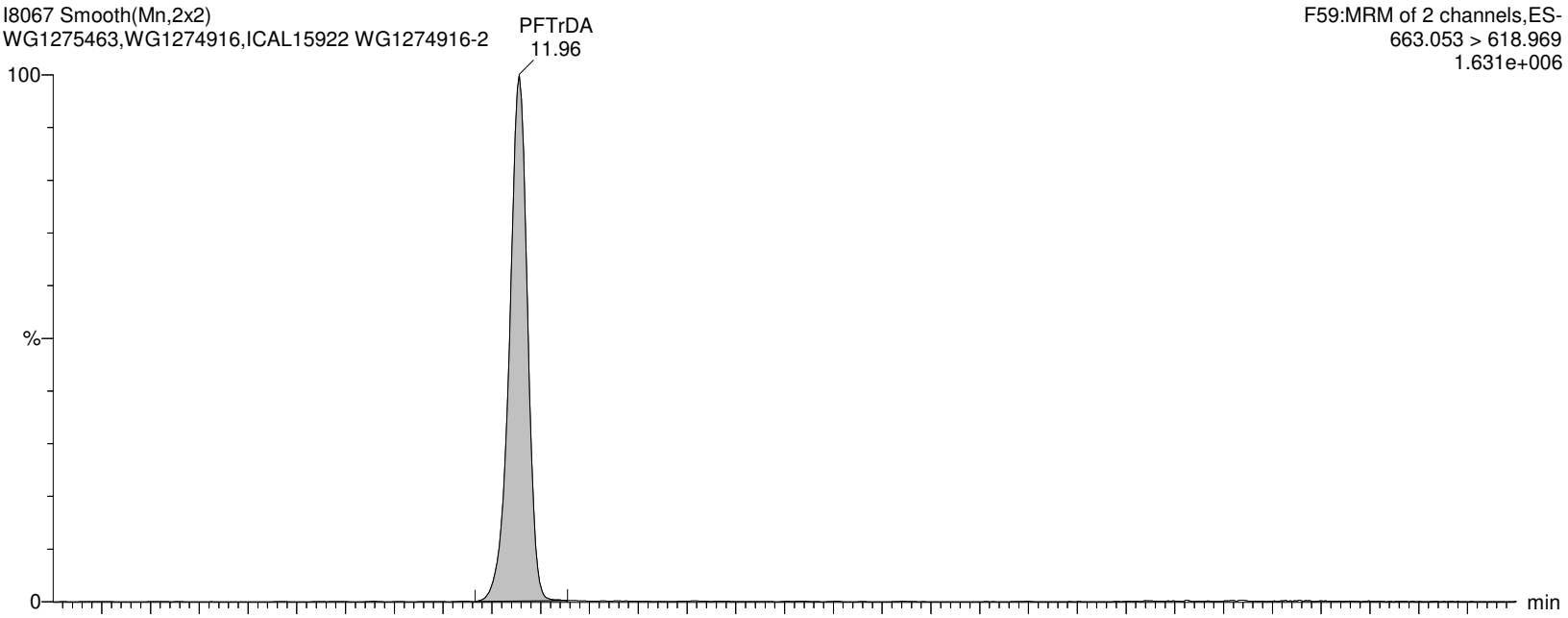


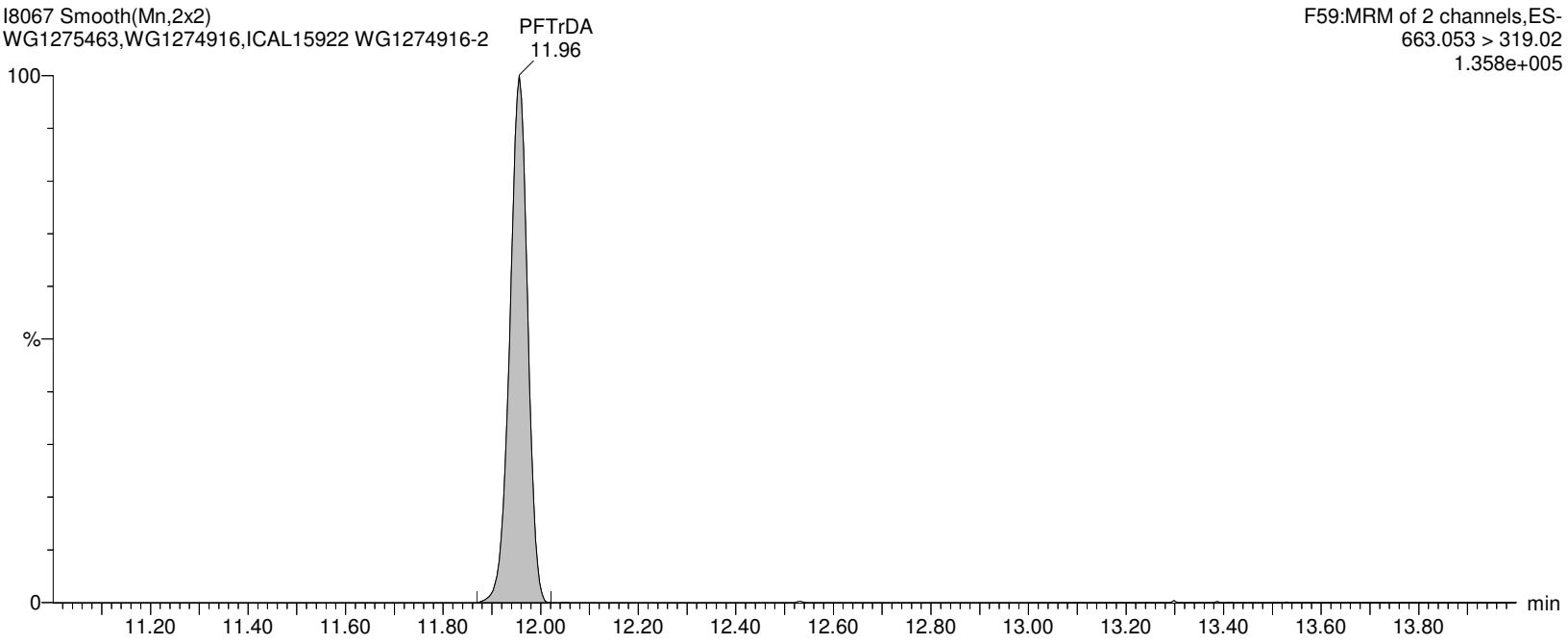
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PFTrDA



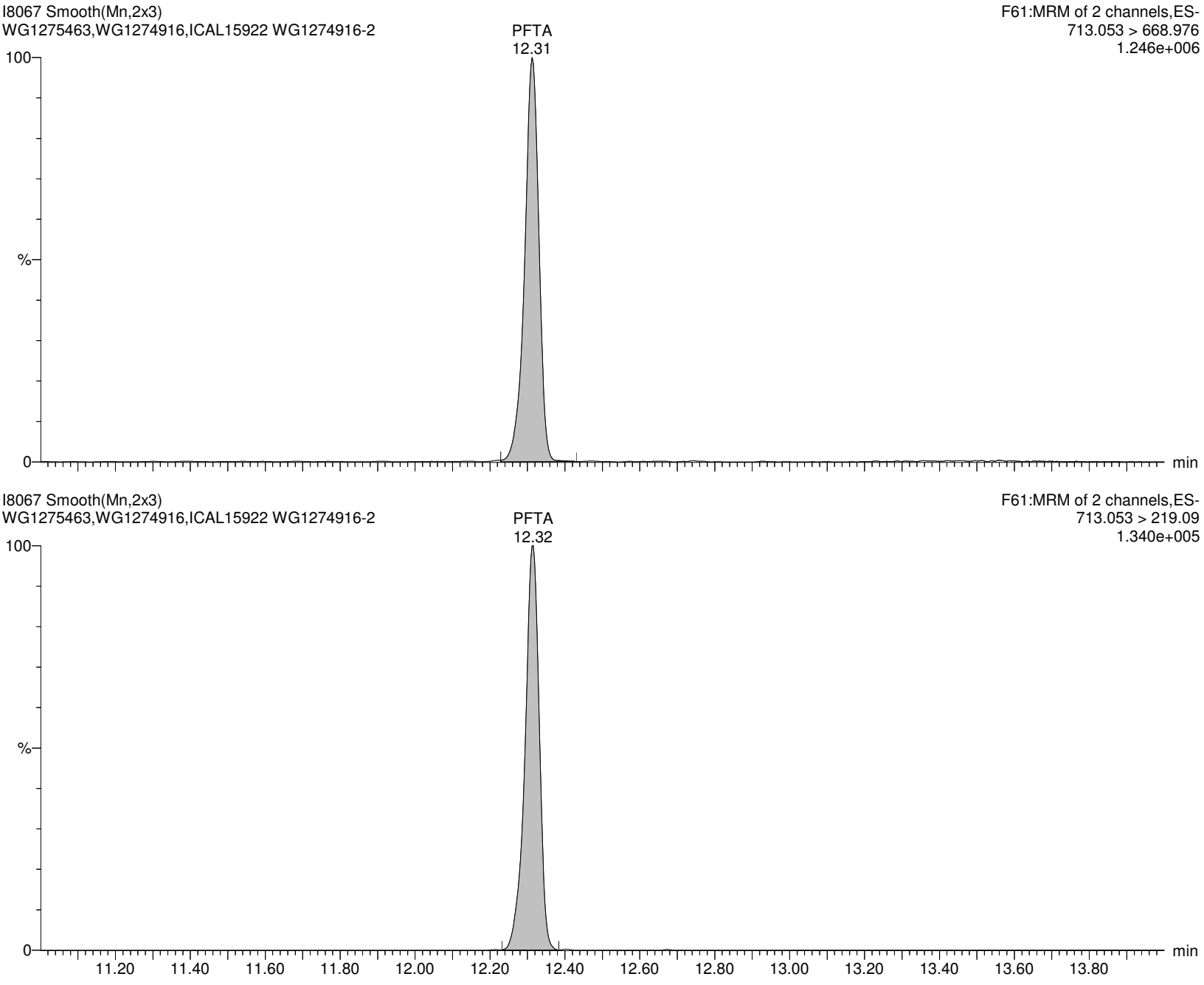


all concentration units in (ng/mL)

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PFTA

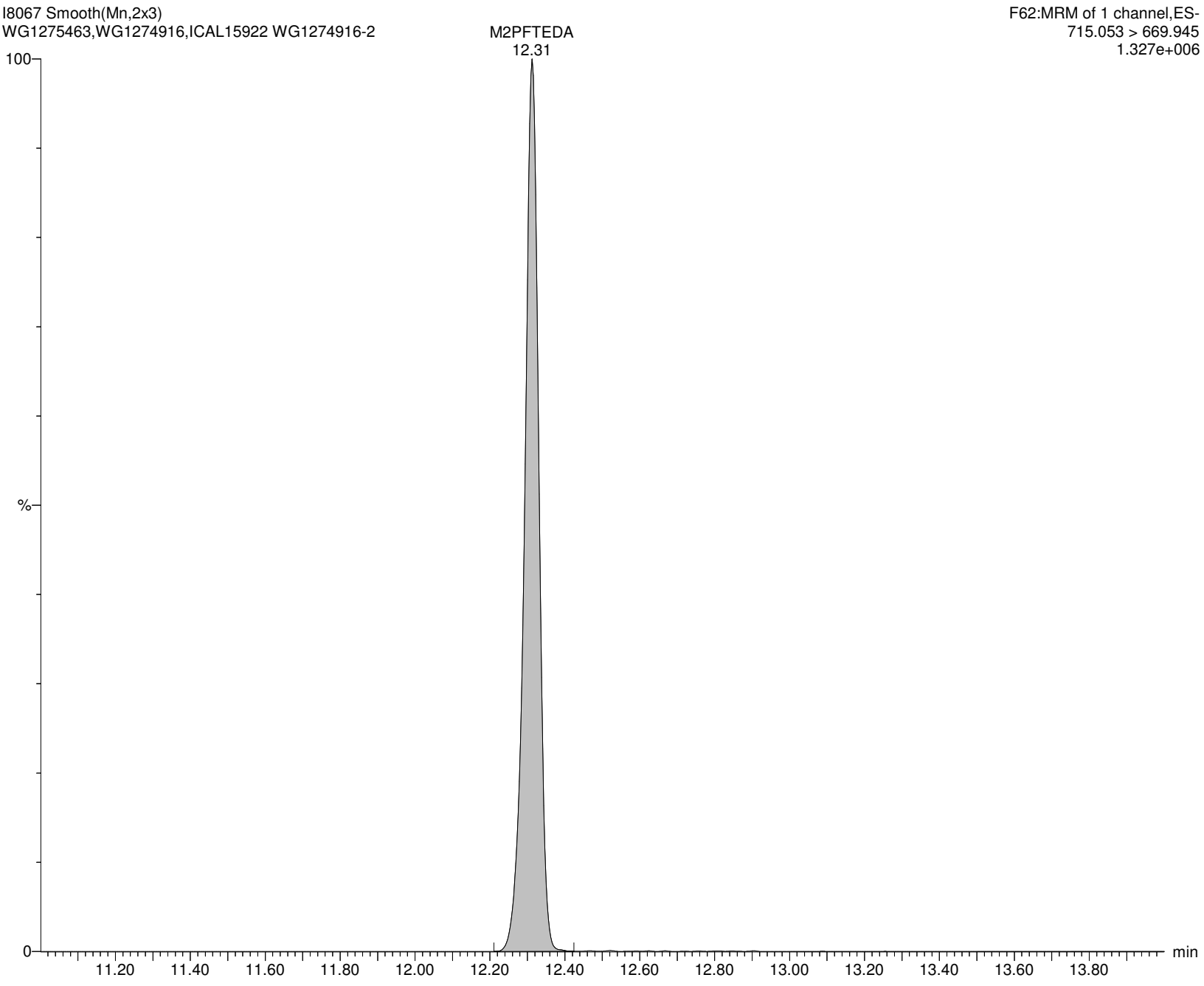


all concentration units in (ng/mL)

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M2PFTEDA



all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
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Printed: Thursday, August 22, 2019 13:49:30 Eastern Daylight Time

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Date: 22-Aug-2019
Time: 12:17:16
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Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
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MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.09	212.926 > 169.111	33802		10.721		na	107.2
2	M3PFBA	INT STD	2.08	215.926 > 172.122	31893		8.246		na	82.5
3	MPFBA	INT STD	2.08	216.926 > 172.137	34649		9.688		na	96.9
4	PFPeA	2706-90-3	4.98	262.926 > 219.002	57889		9.726		na	97.3
5	M5PFPEA	INT STD	4.98	267.989 > 223.081	58003		11.458		na	114.6
6	PFBS	375-73-5	5.64	298.926 > 79.923	11257		8.097	1.94	NO	91.5
7	M3PFBS	INT STD	5.64	301.989 > 80.254	9344		8.315		na	83.1
8	4:2FTS	757124-72-4	6.82	326.926 > 306.957	3007		10.095	2.08	NO	108.0
9	M2-4:2FTS	INT STD	6.82	329.117 > 309.079	2945		4.373		na	43.7
10	PFHxA	307-24-4	6.90	312.989 > 269.028	76420		10.801	17.67	NO	108.0
11	M5PFHxA	INT STD	6.89	317.989 > 273.045	71576		9.255		na	92.6
12	PFPeS	2706-91-4	7.22	348.926 > 80.251	10253		9.079	1.96	NO	96.6
13	PFHpA	375-85-9	8.19	362.926 > 319.014	95863		10.623	5.51	NO	106.2
14	M4PFHpA	INT STD	8.19	366.926 > 321.979	90507		9.186		na	91.9
15	br-PFHxS	355-46-4	8.12	398.926 > 80.295	1473	M5	2.383	2.90	NO	140.2
16	L-PFHxS	355-46-4	8.35	398.926 > 80.295	6633		7.729	1.39	YES	104.4
17	PFHxS	355-46-4		398.926 > 80.295	8106		10.112		na	
18	M3PFHxS	INT STD	8.35	401.926 > 80.317	6337		9.098		na	91.0
19	br-PFOA	335-67-1		412.989 > 368.9			ND		YES	
20	L-PFOA	335-67-1	9.14	412.989 > 368.9	92000		10.378	9.04	NO	103.8
21	M2PFOA	INT STD	9.14	415.032 > 369.968	91734		10.061		na	100.6
22	PFOA	335-67-1		412.989 > 368.9	92000		10.378		na	
23	M8PFOA	INT STD	9.14	420.989 > 375.979	89310		9.799		na	98.0
24	6:2FTS	27619-97-2	9.10	426.989 > 406.921	2147		11.241	6.20	NO	118.3
25	M2-6:2FTS	INT STD	9.10	428.989 > 408.917	2440		4.021		na	40.2
26	PFHpS	375-92-8	9.23	448.926 > 80.257	5388		8.063	0.96	NO	84.9
27	PFNA	375-95-1	9.90	462.989 > 418.931	85274		10.351	4.15	NO	103.5
28	M9PFNA	INT STD	9.90	472.053 > 426.947	90809		10.759		na	107.6
29	br-PFOS	1763-23-1	9.77	498.989 > 80.294	2351	M5	2.274	5.79	NO	113.7
30	L-PFOS	1763-23-1	9.96	498.989 > 80.294	7135		7.431	1.52	NO	101.8
31	PFOS	1763-23-1		498.989 > 80.294	9486		9.704		na	
32	M4PFOS	INT STD	9.95	503.032 > 80.306	8443		11.352		na	113.5
33	M8PFOS	INT STD	9.96	507.053 > 80.294	9316		10.245		na	102.4
34	PFDA	335-76-2	10.53	513.053 > 468.906	83439		11.122	6.29	NO	111.2
35	M2PFDA	INT STD	10.53	515.053 > 469.934	78155		10.927		na	109.3
36	M6PFDA	INT STD	10.53	519.053 > 473.931	82975		9.495		na	95.0
37	8:2FTS	39108-34-4	10.52	526.926 > 506.818	1677		9.952		na	103.7
38	M2-8:2FTS	INT STD	10.52	529.053 > 508.945	1602		4.811		na	48.1
39	PFNS	68259-12-1	10.56	548.989 > 80.249	8560		9.251	1.33	NO	96.4

all concentration units in (ng/mL)

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ID: WG1274916-3
Name: I8068
Date: 22-Aug-2019
Time: 12:17:16
Description: WG1275463,WG1274916,ICAL15922
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.91	573.096 > 418.987	6246		7.202		na	72.0
41	NMeFOSAA	2355-31-9	10.91	570.053 > 418.917	7548		11.898	3.14	NO	119.0
42	PFUnA	2058-94-8	11.07	562.989 > 518.903	77745		10.097	7.96	NO	101.0
43	M7-PFUDA	INT STD	11.07	570.053 > 524.923	74983		9.704		na	97.0
44	PFDS	335-77-3	11.08	598.926 > 80.314	6931		10.100	1.12	YES	104.7
45	FOSA	754-91-6	10.93	497.989 > 78.245	12128		8.749	111.98	NO	87.5
46	M8FOSA	INT STD	10.93	506.053 > 78.286	12071		4.641		na	46.4
47	d5-NEtFOSAA	INT STD	11.19	589.117 > 418.929	5764		7.335		na	73.4
48	NEtFOSAA	2991-50-6	11.20	583.989 > 418.927	6198		10.634	2.73	NO	106.3
49	PFDoA	307-55-1	11.54	612.989 > 568.967	81366		11.040	14.41	NO	110.4
50	MPFDOA	INT STD	11.54	614.989 > 569.92	76804		8.977		na	89.8
51	PFTrDA	72629-94-8	11.96	663.053 > 618.969	74779		10.804	11.52	NO	108.0
52	PFTA	376-06-7	12.31	713.053 > 668.976	63370		11.375	9.22	NO	113.8
53	M2PFTEDA	INT STD	12.31	715.053 > 669.945	64053		8.861		na	88.6

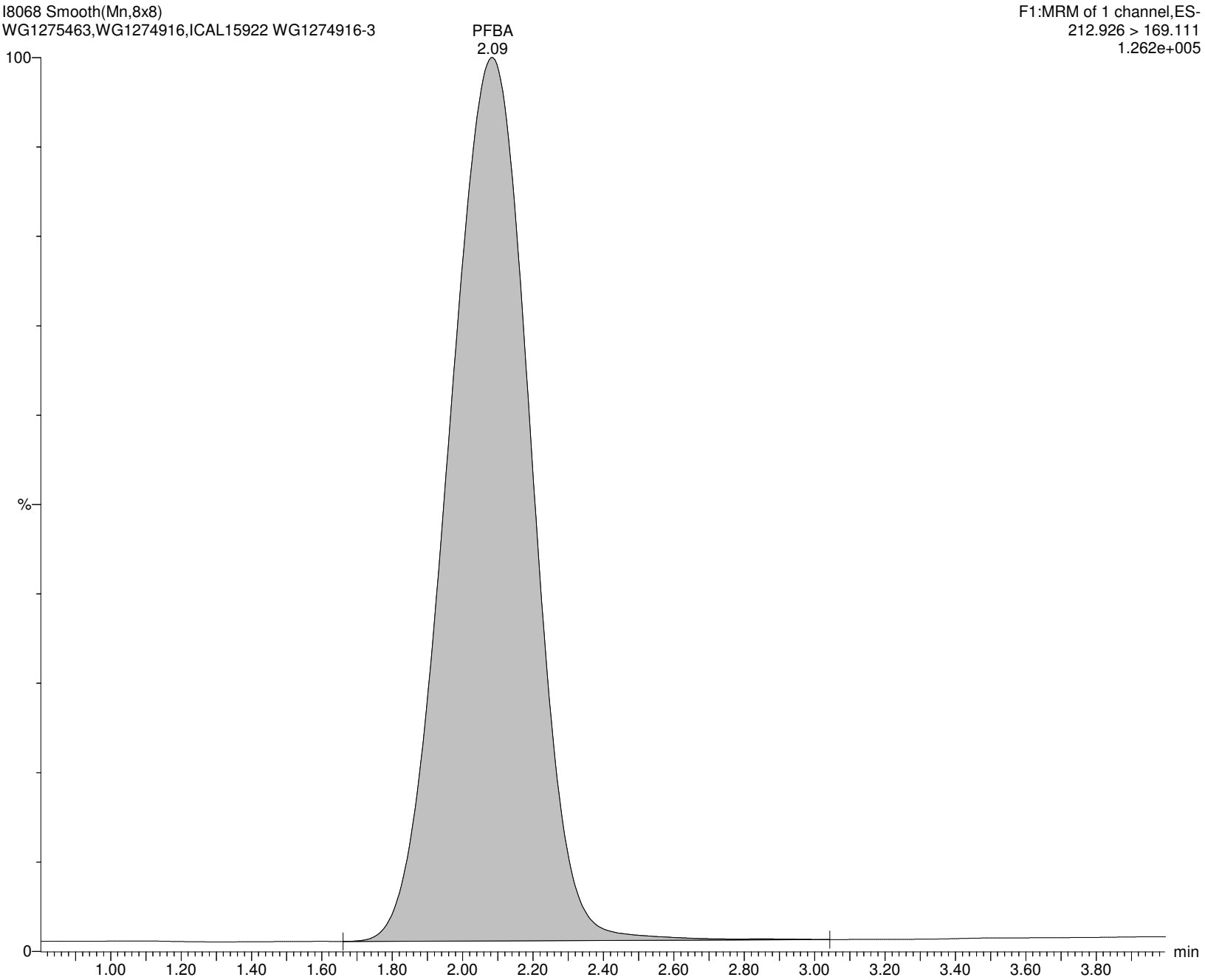
all concentration units in (ng/mL)

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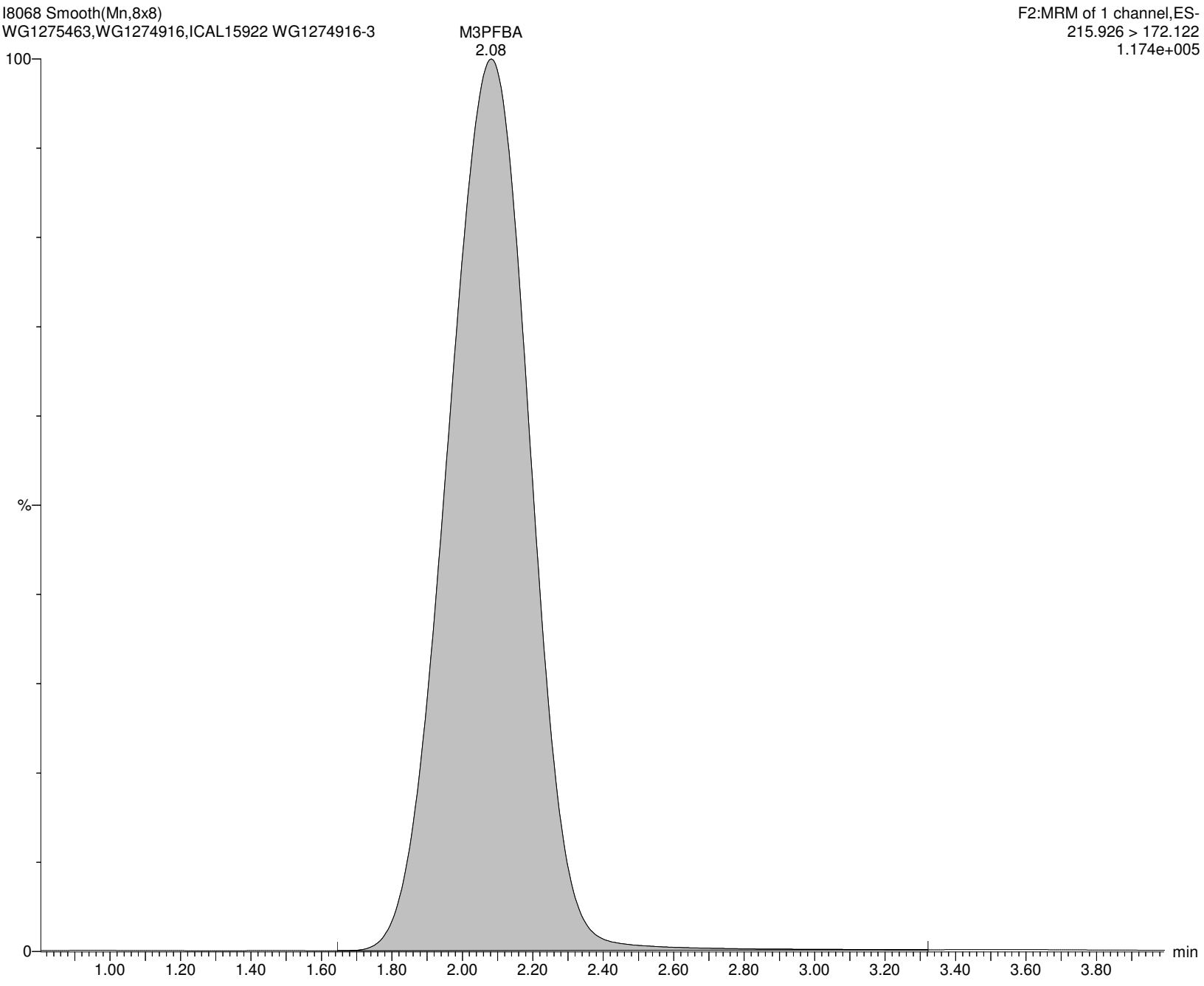


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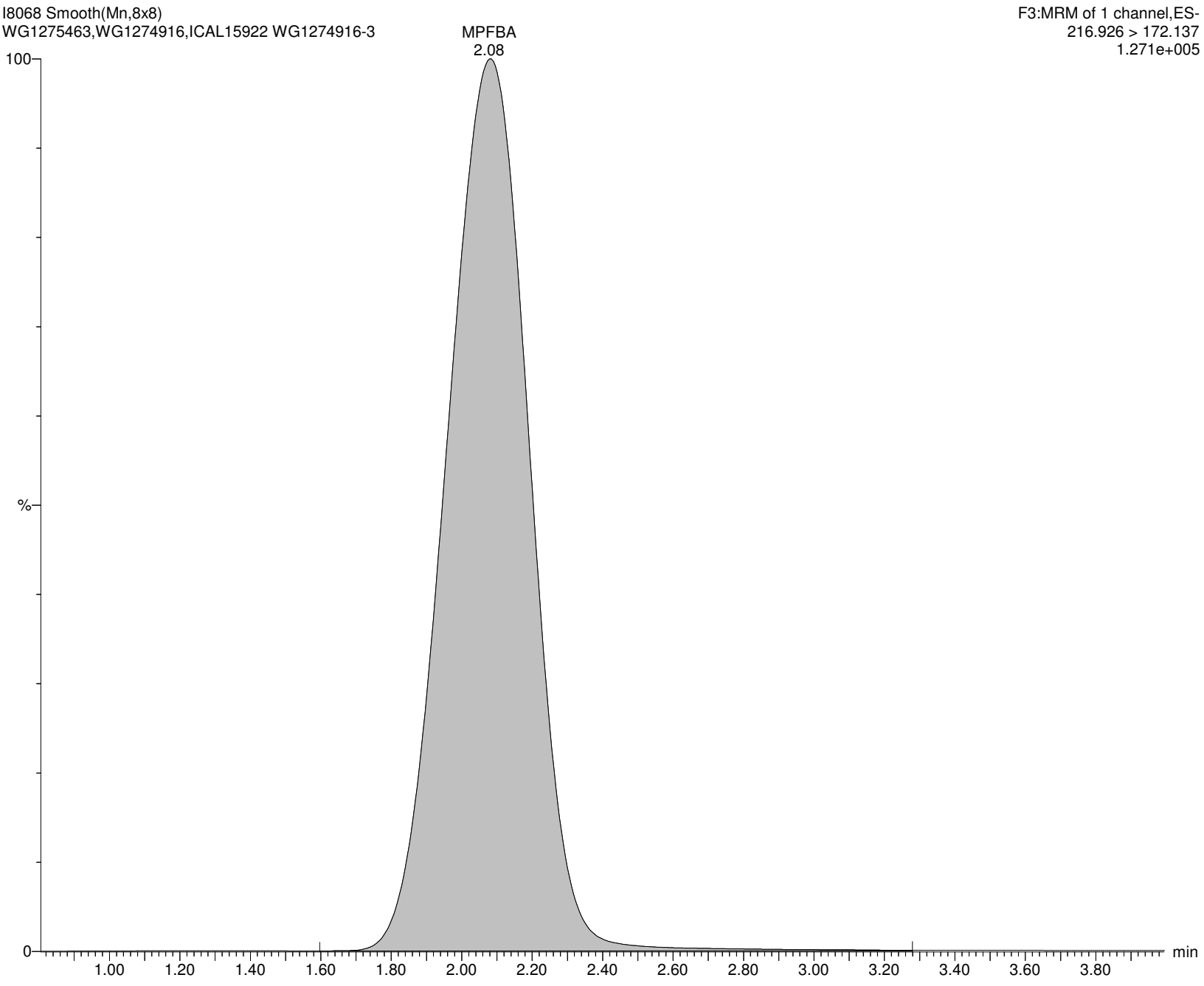


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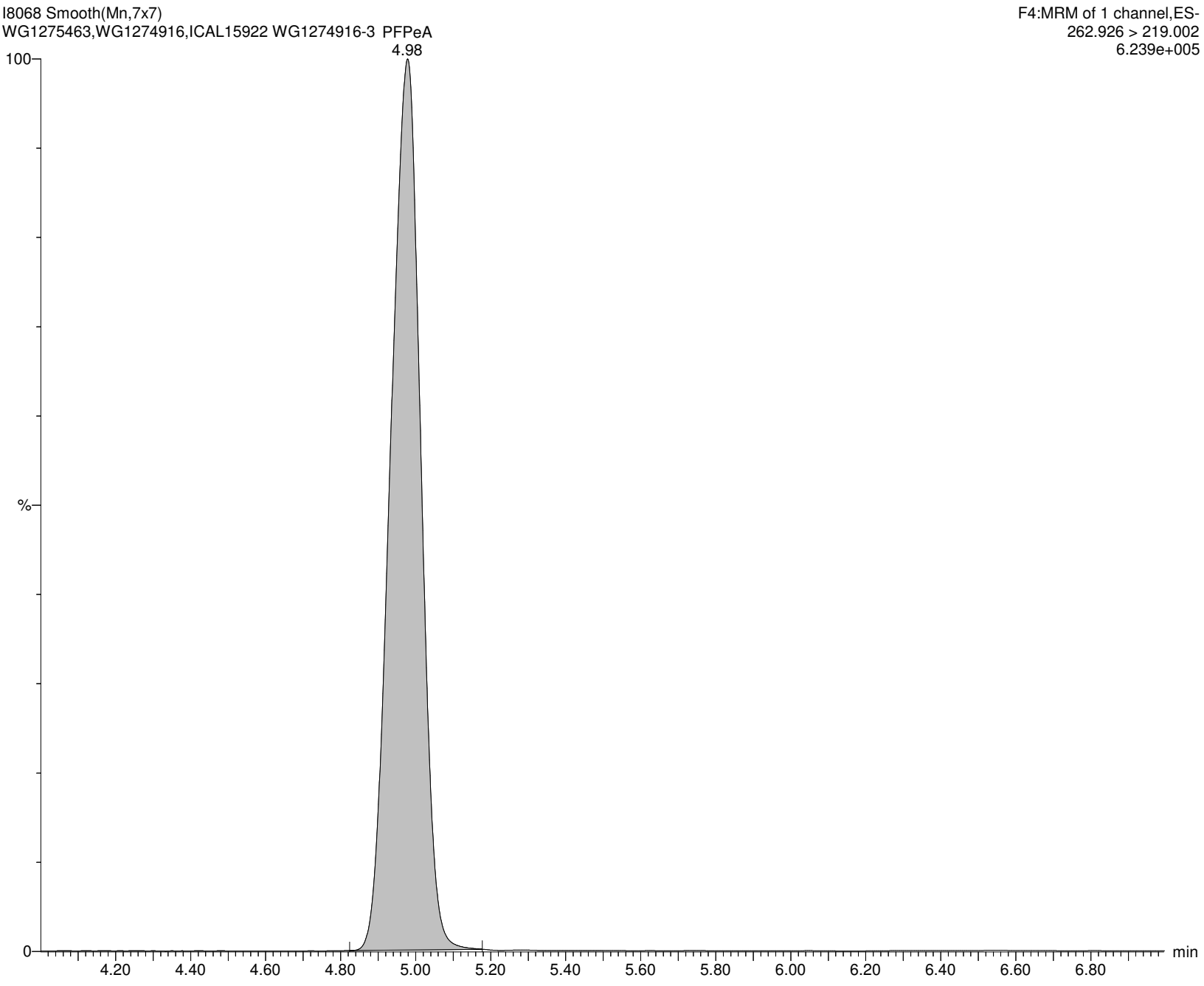


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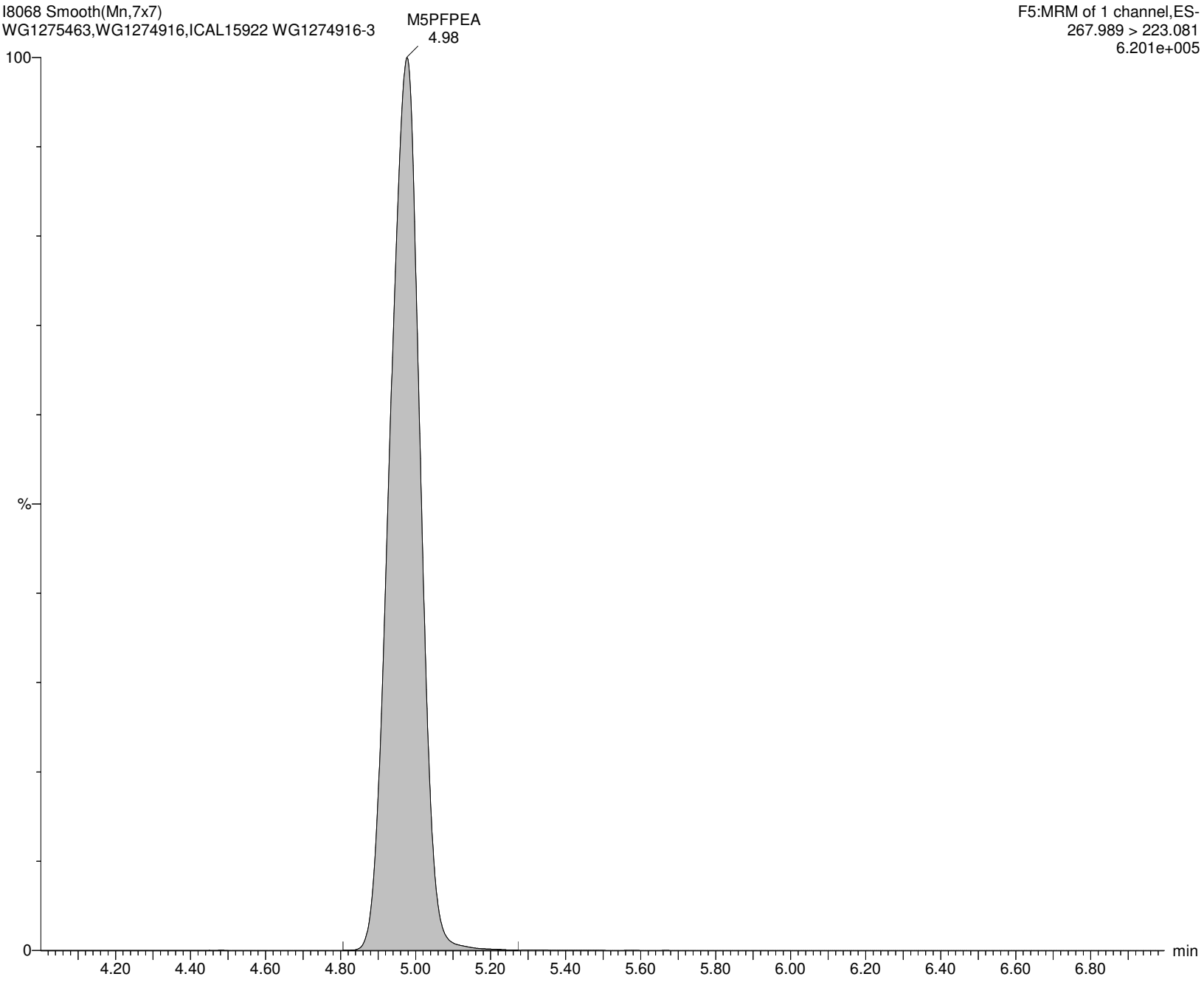


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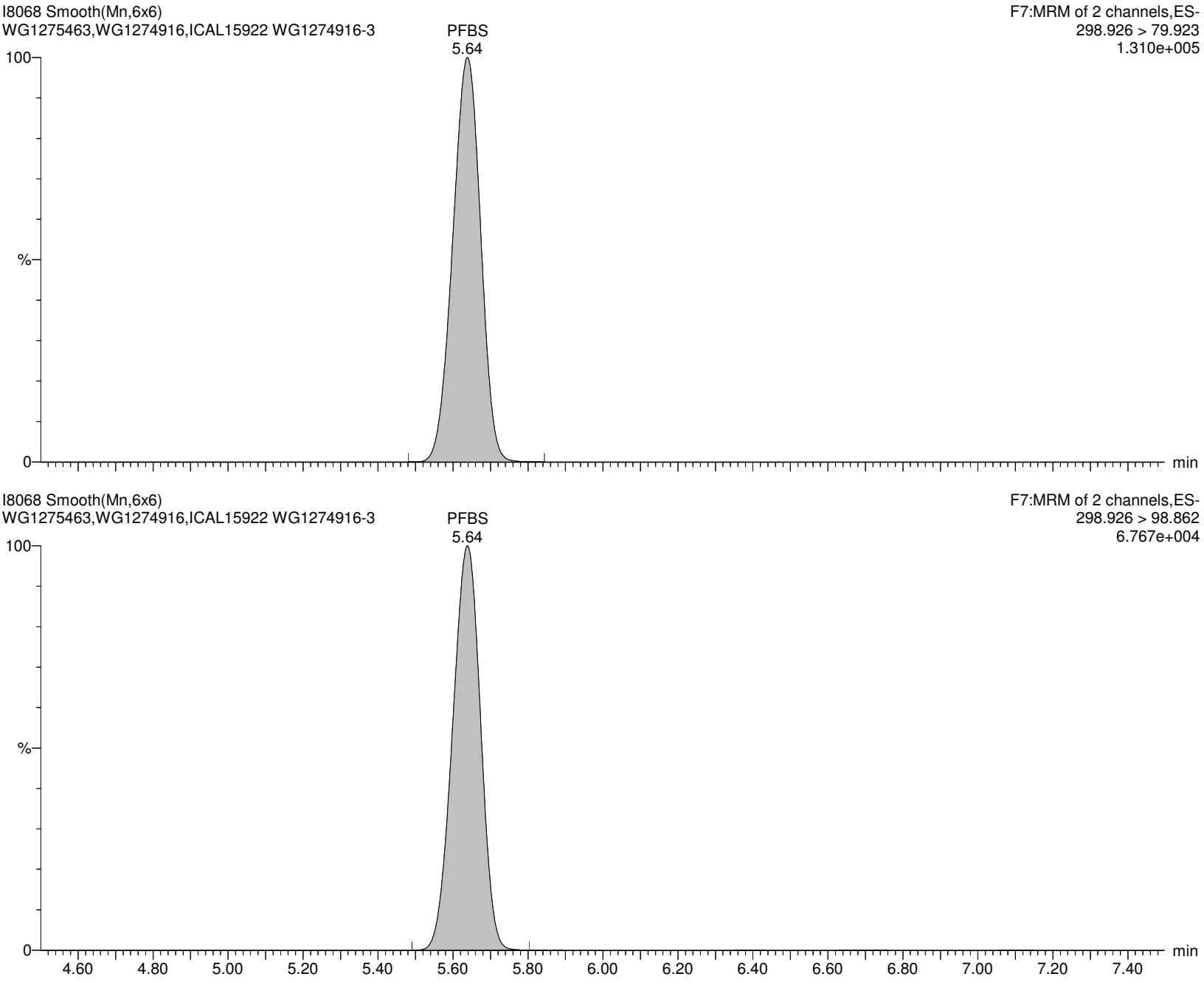


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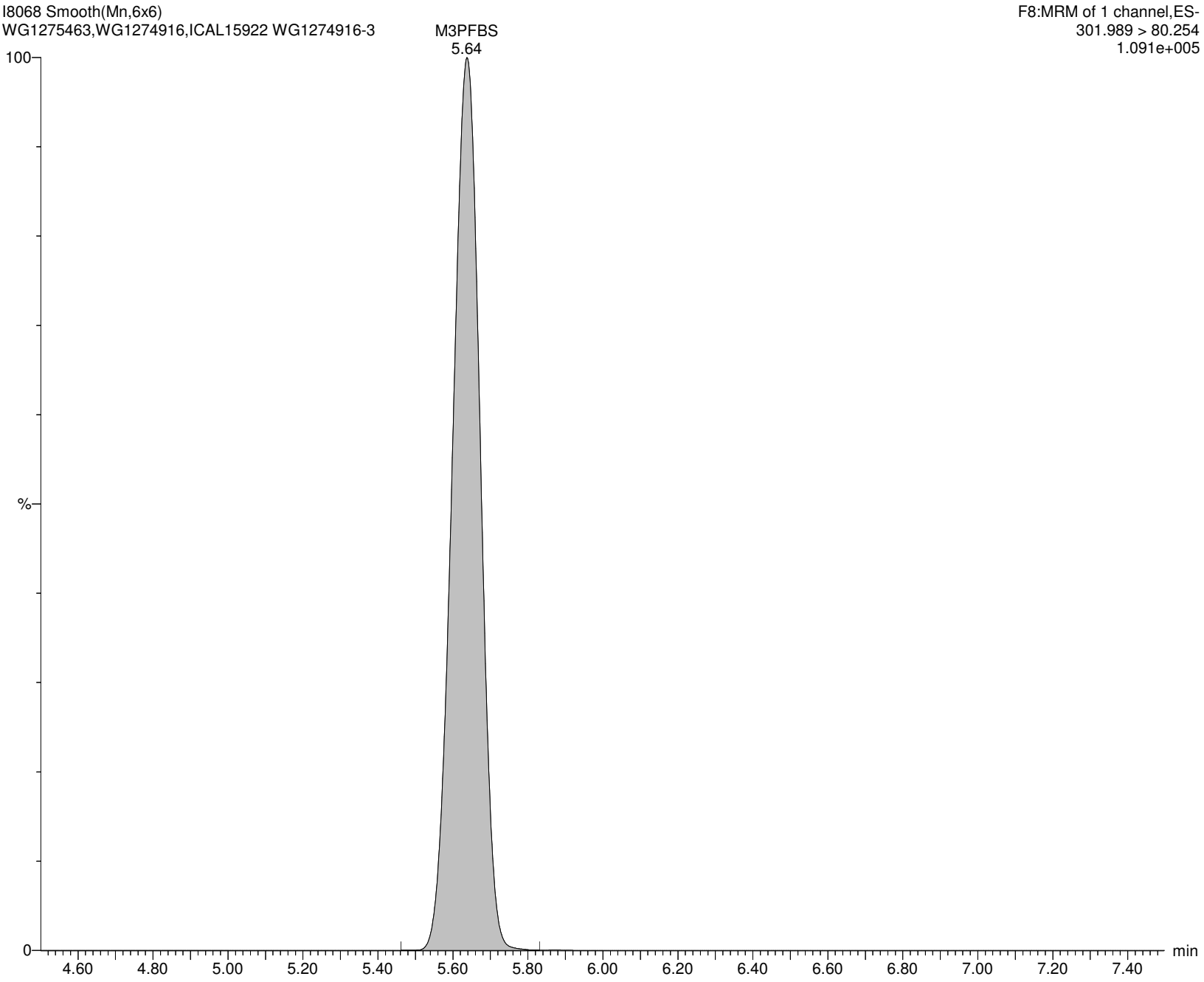


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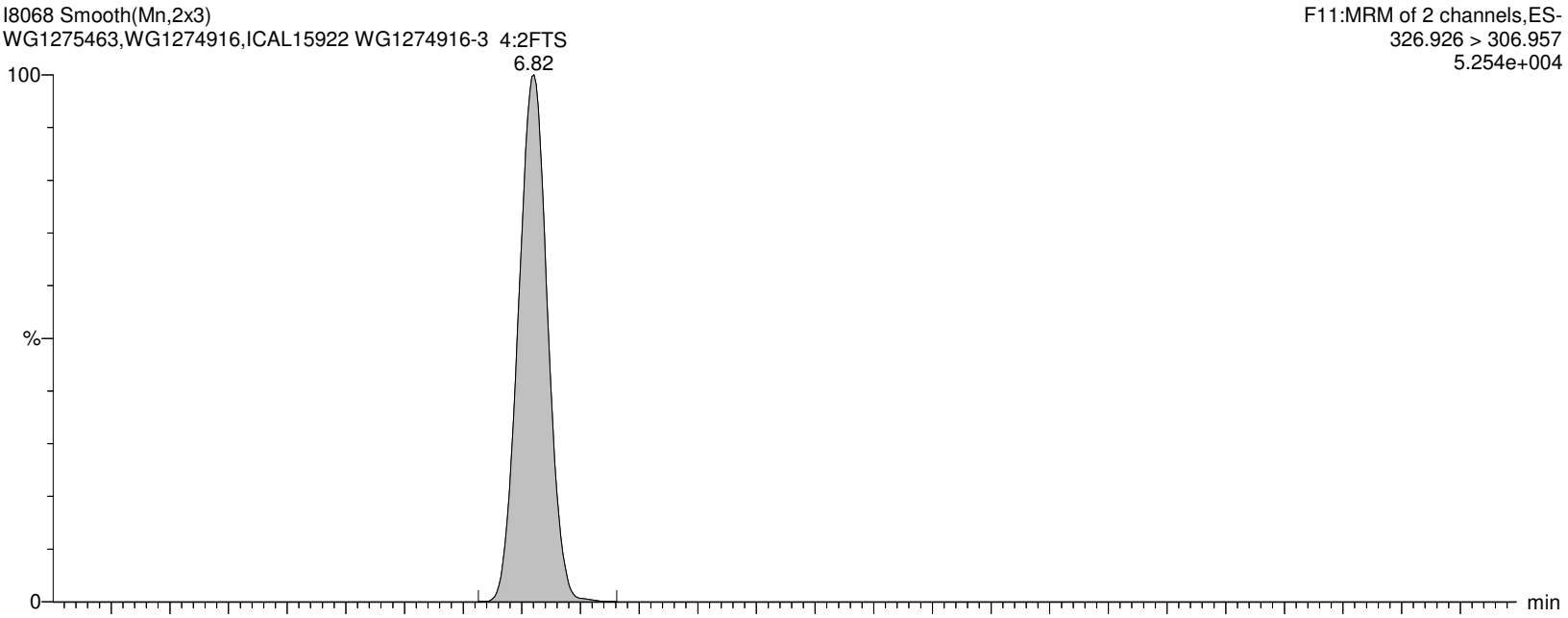


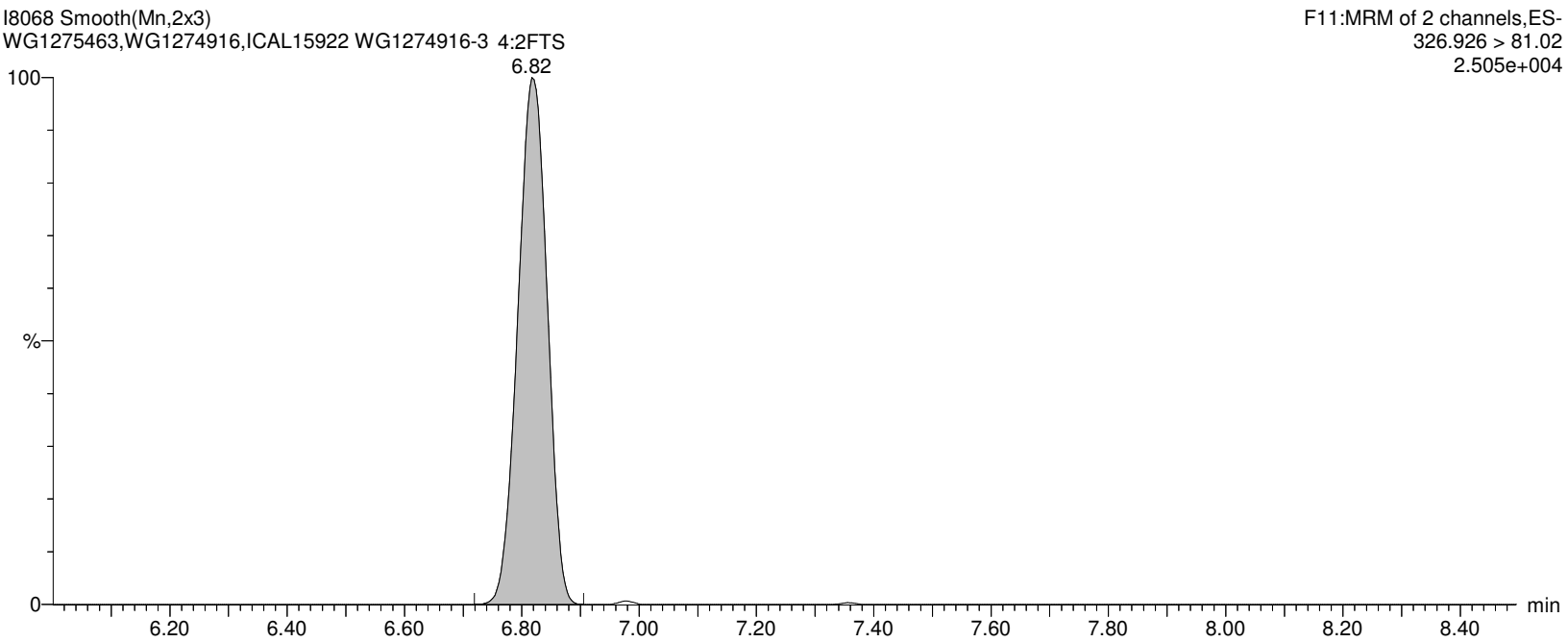
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4:2FTS



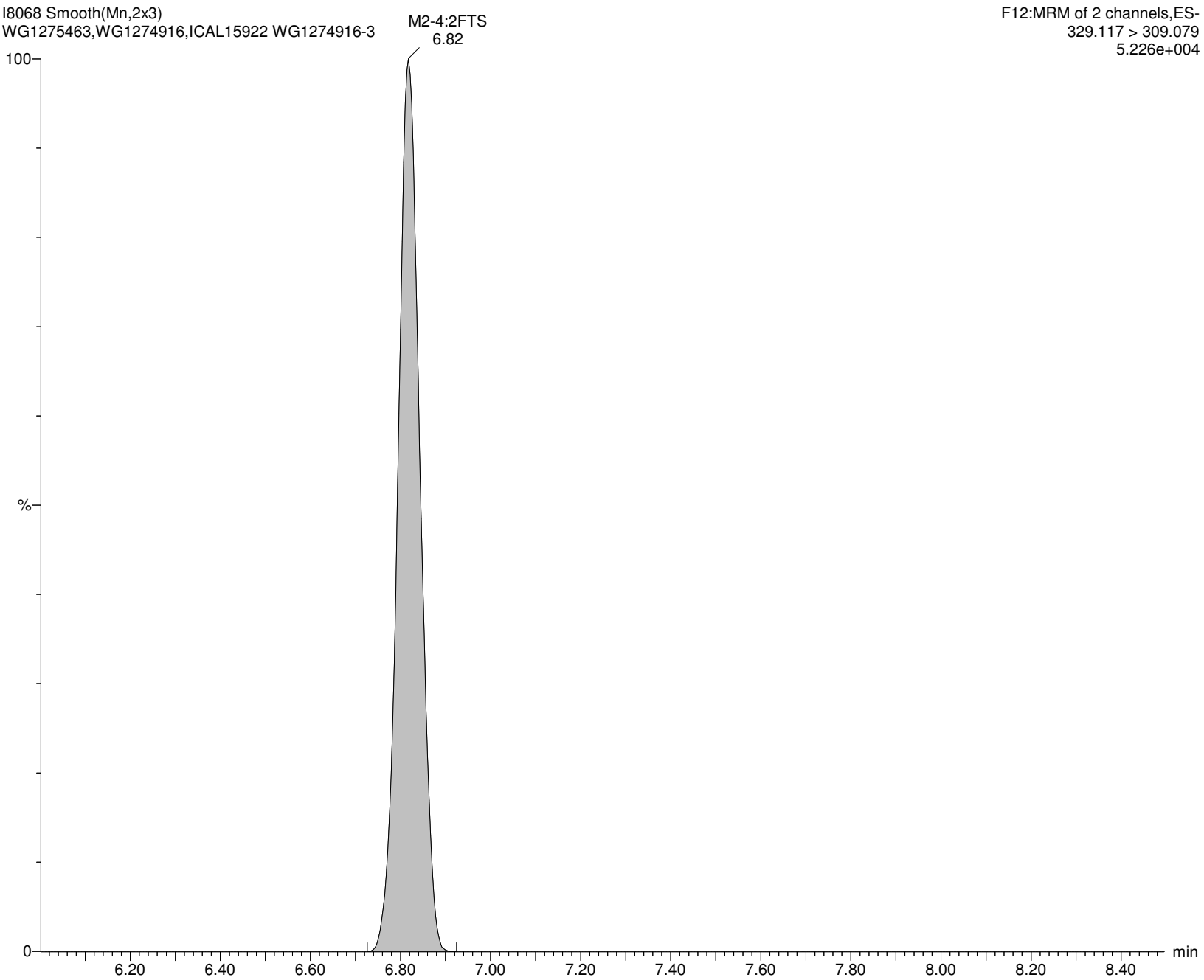


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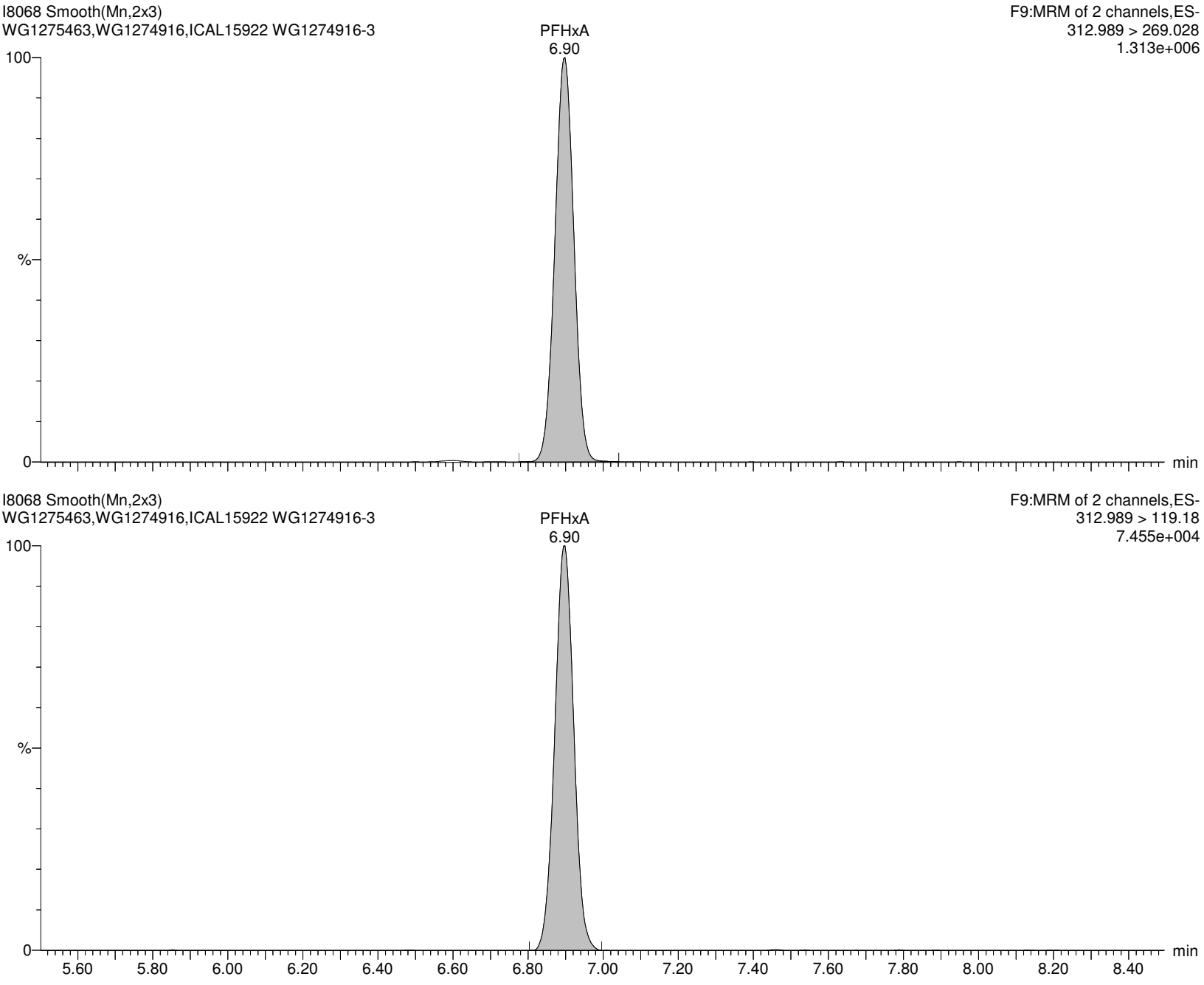


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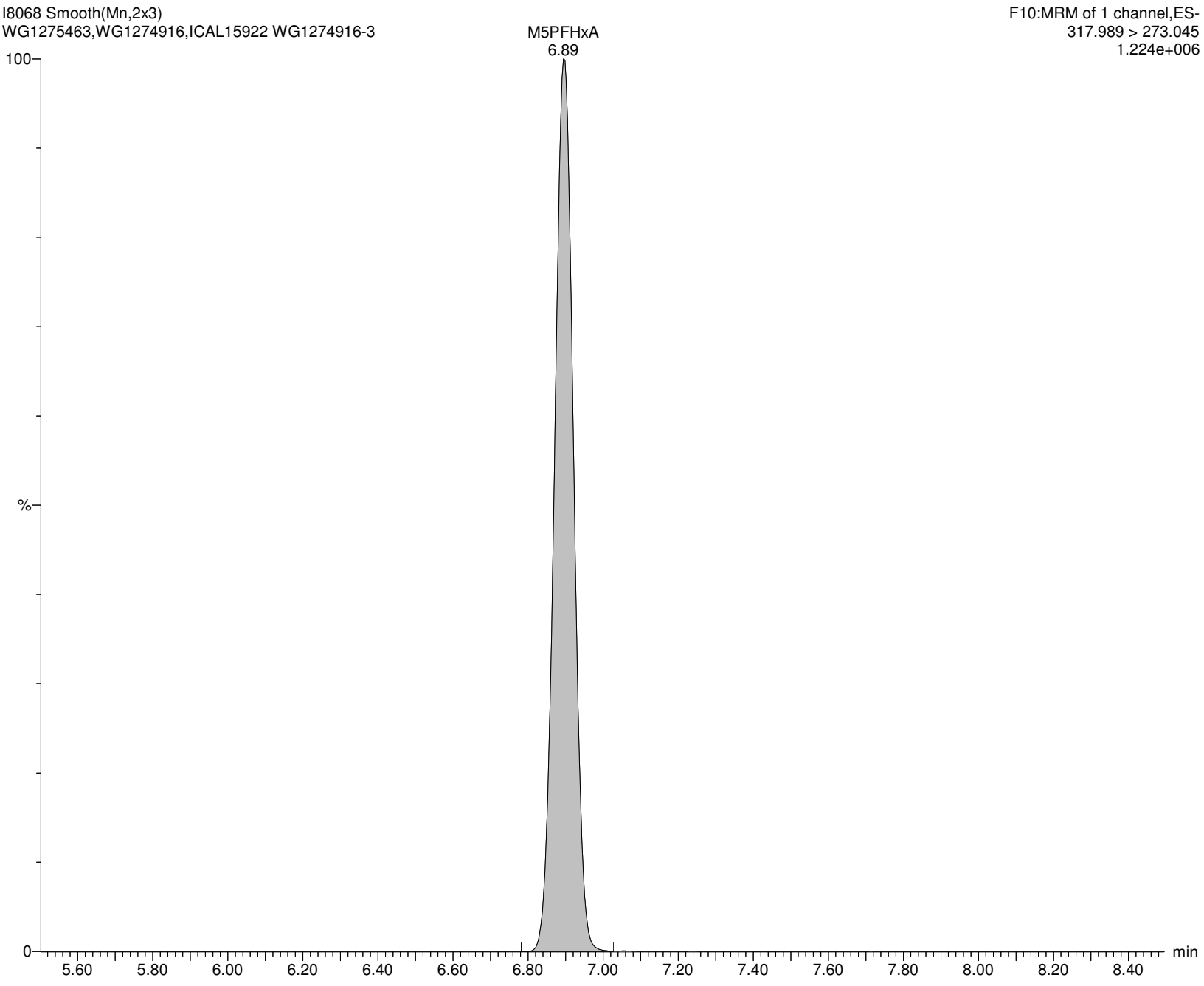


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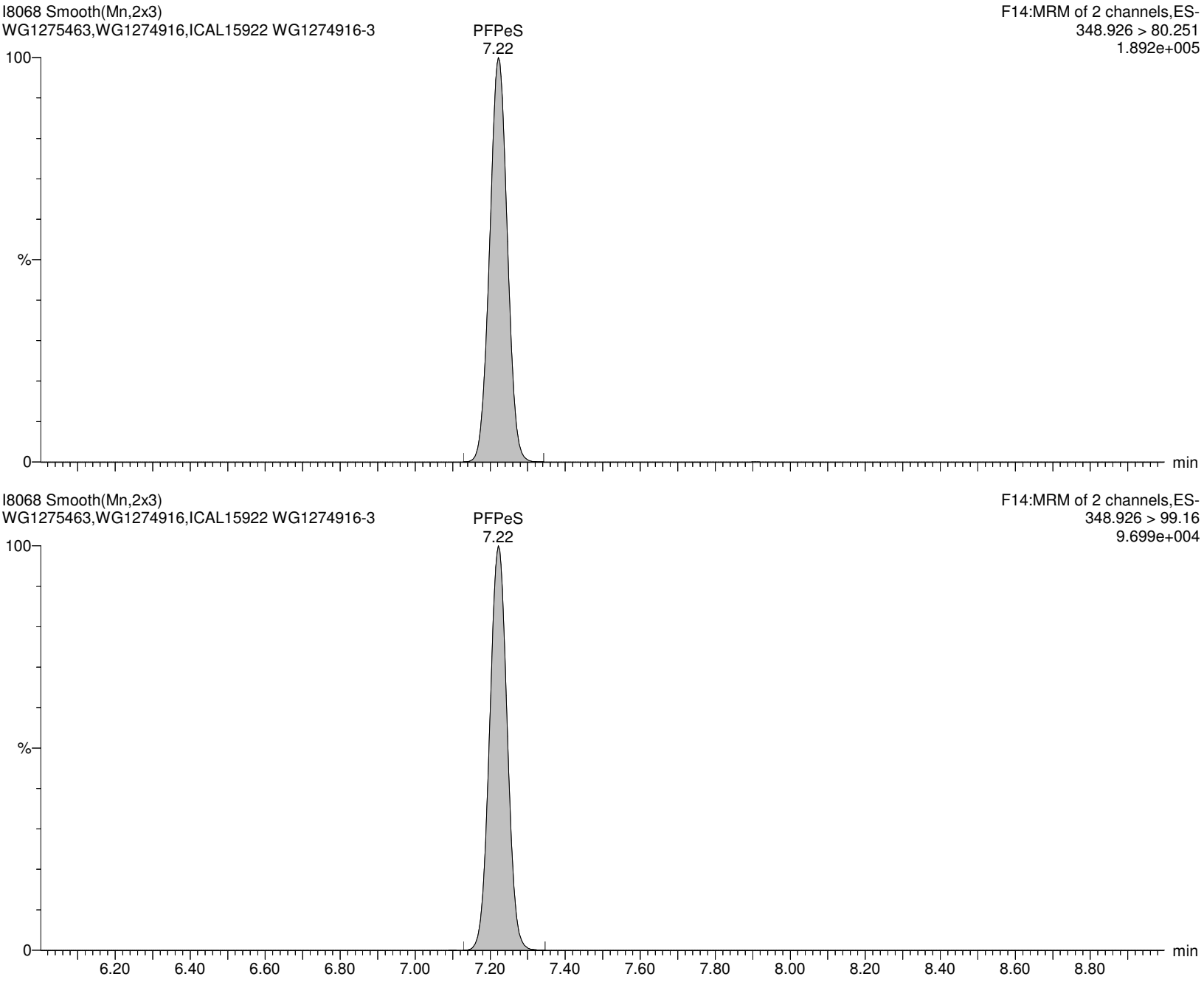


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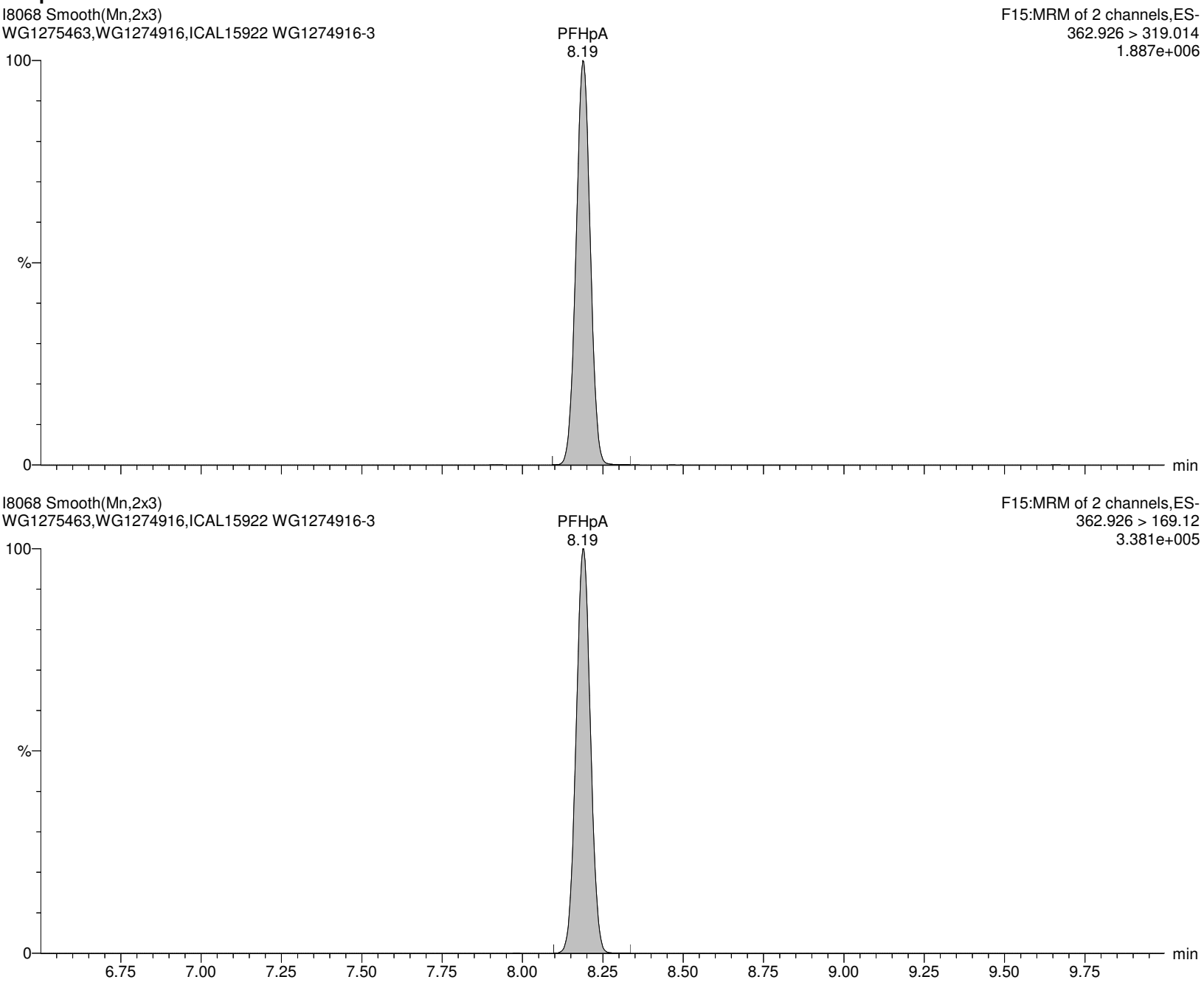


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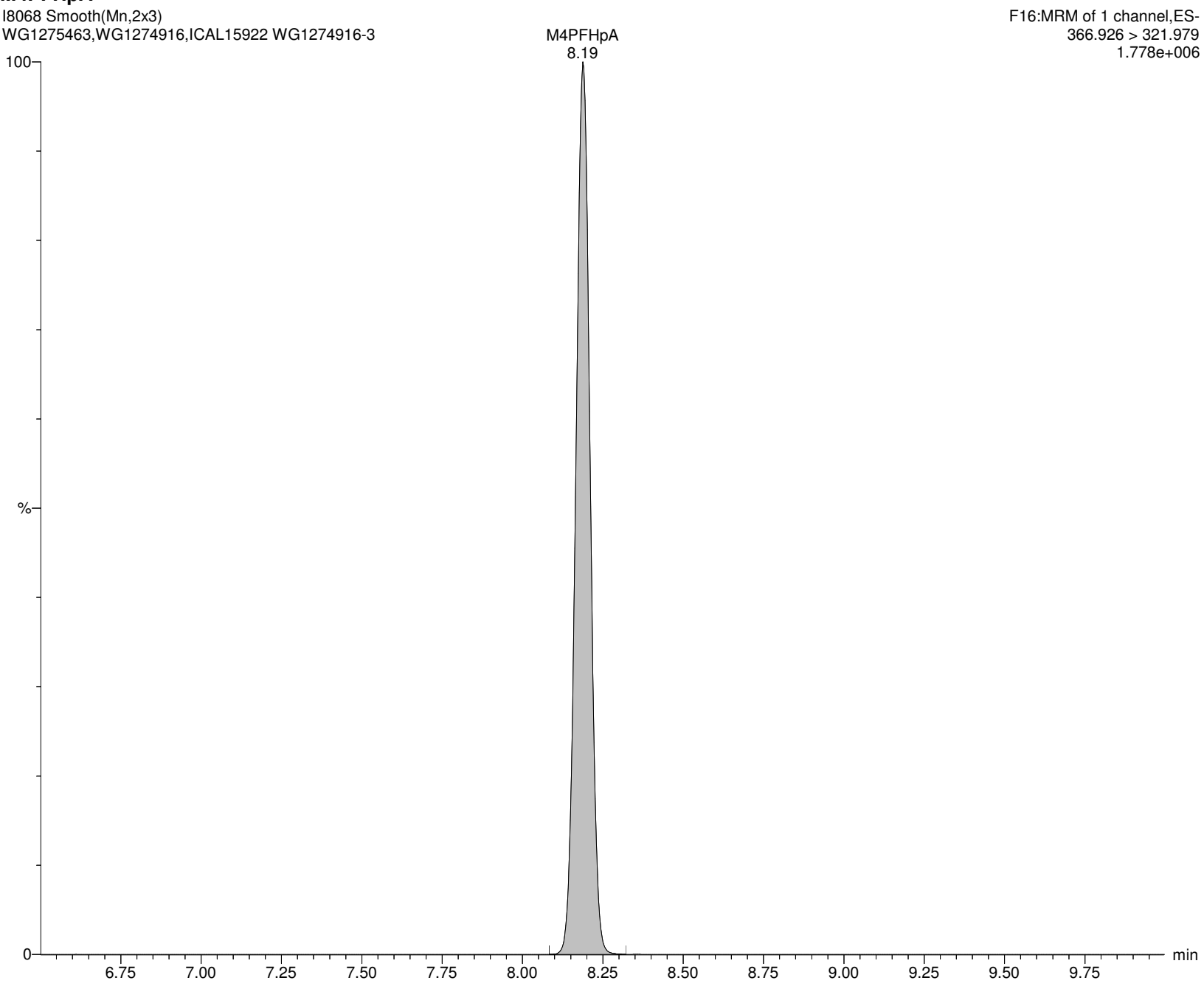


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
Last Altered: Thursday, August 22, 2019 13:45:42 Eastern Daylight Time
Printed: Thursday, August 22, 2019 13:49:30 Eastern Daylight Time

Name: I8068
ID: WG1274916-3
Date: 22-Aug-2019
Time: 12:17:16
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:B,8
Instrument: XEVO-TQSmicro#QEB0050
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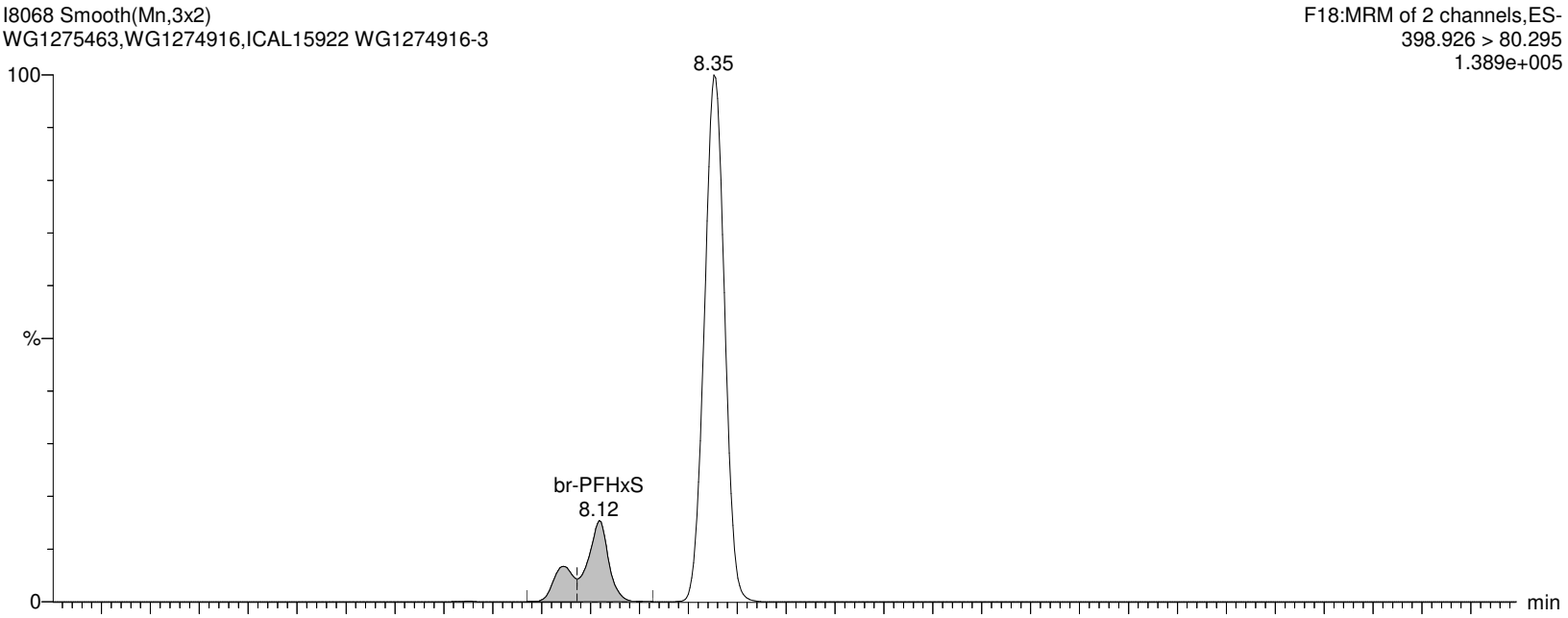


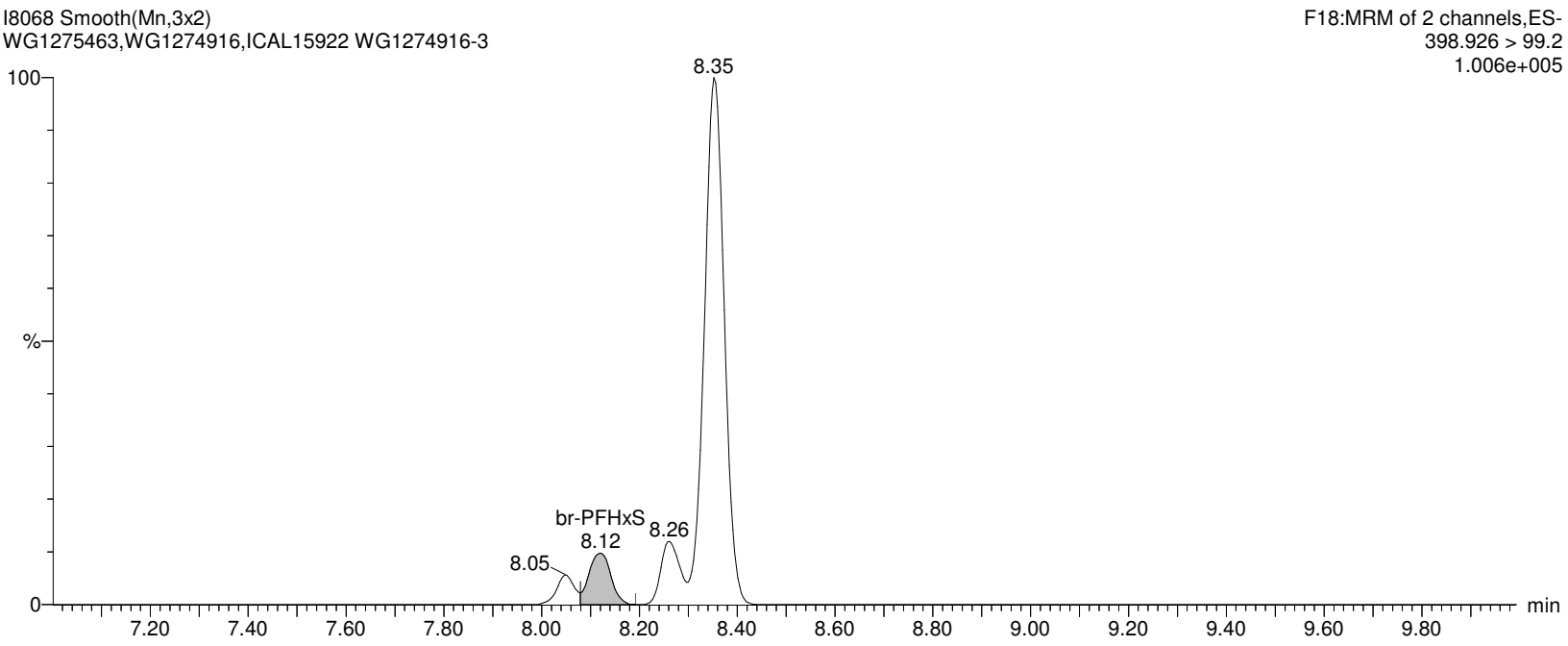
all concentration units in (ng/mL)

Alpha Analytical Inc.
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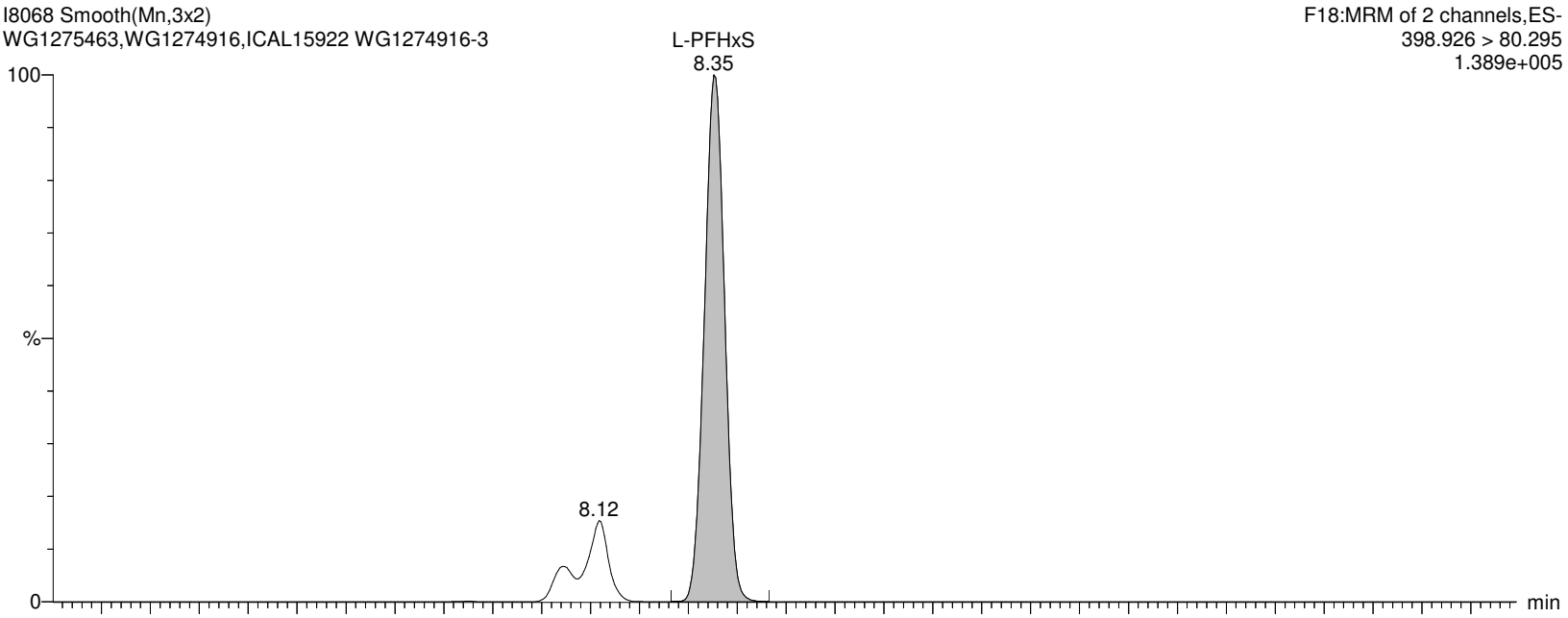


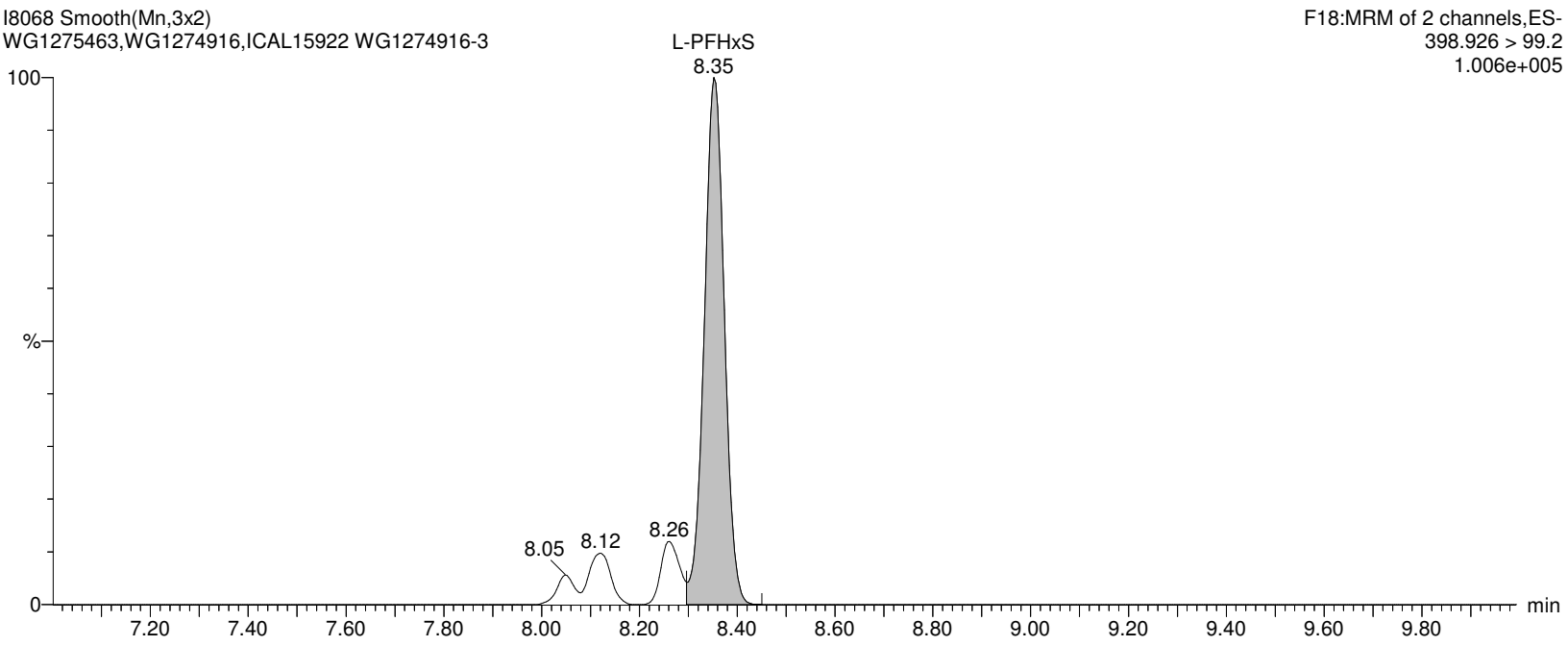
all concentration units in (ng/mL)

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L-PFHxS



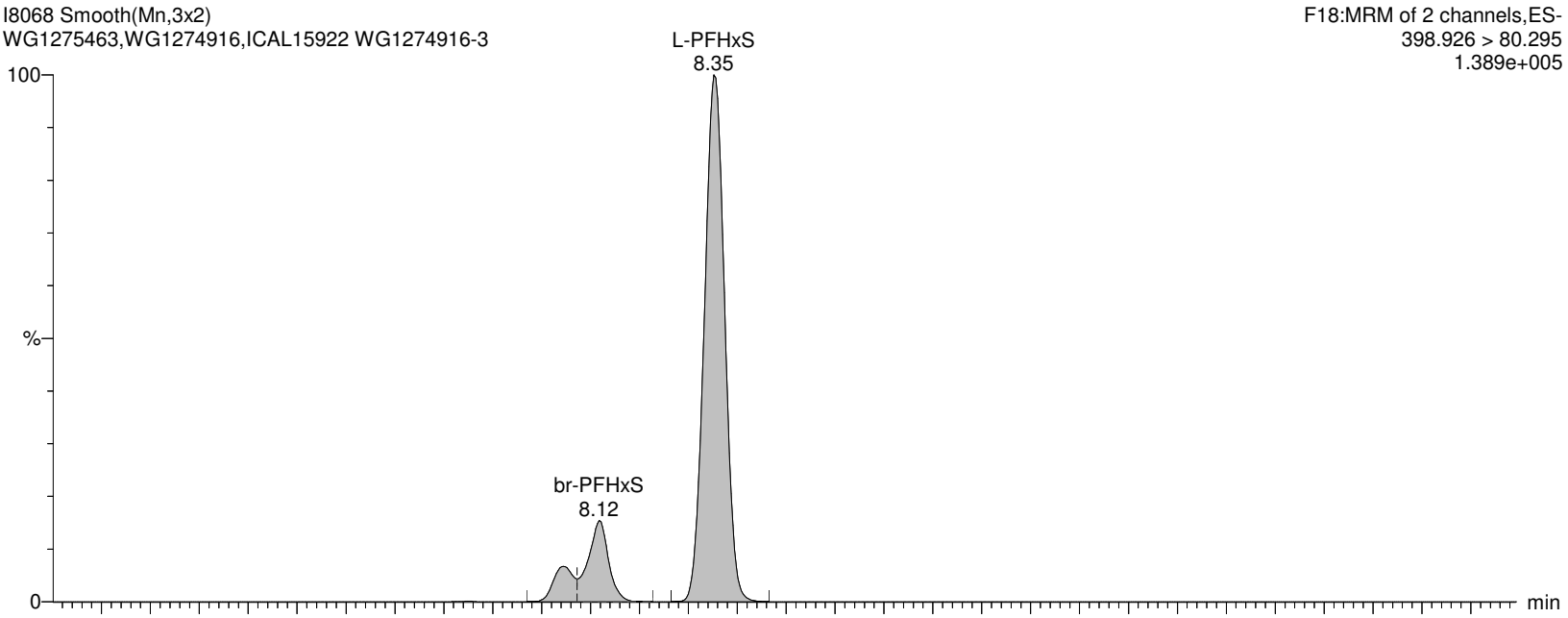


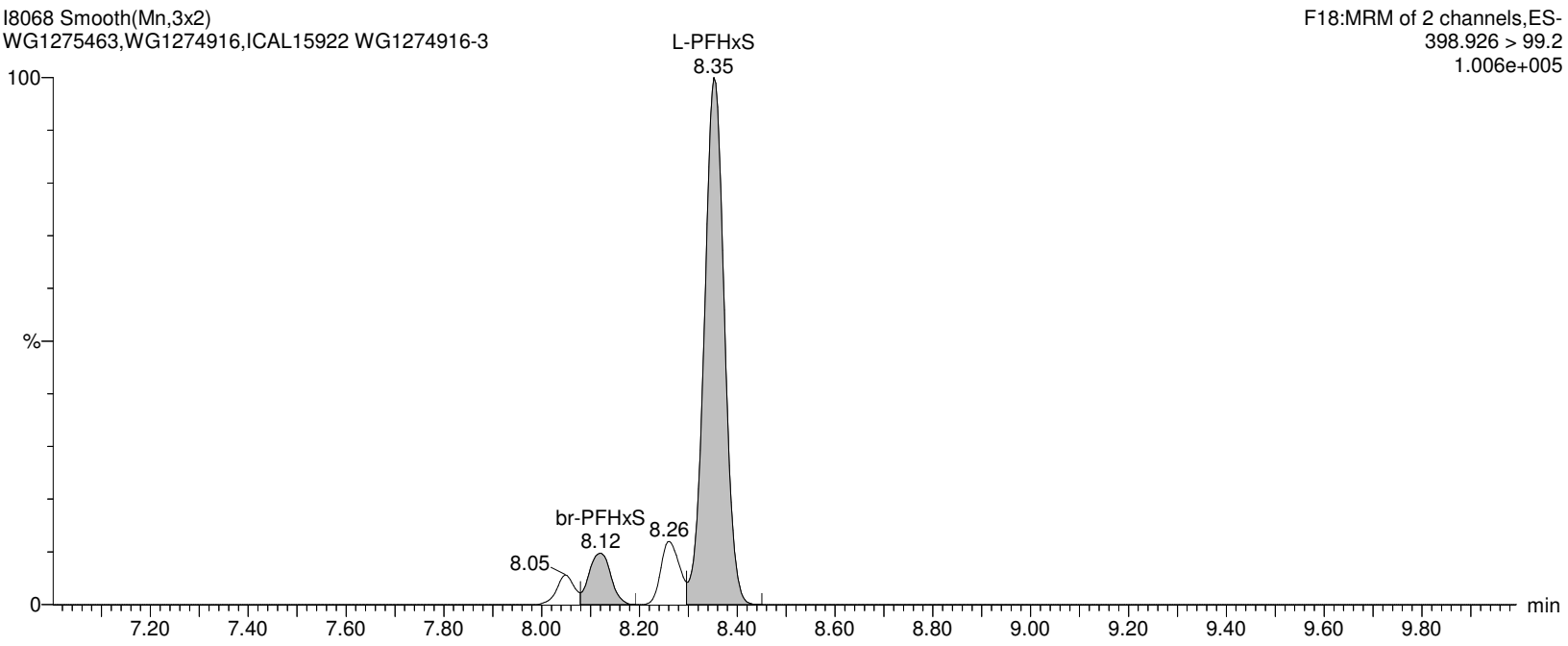
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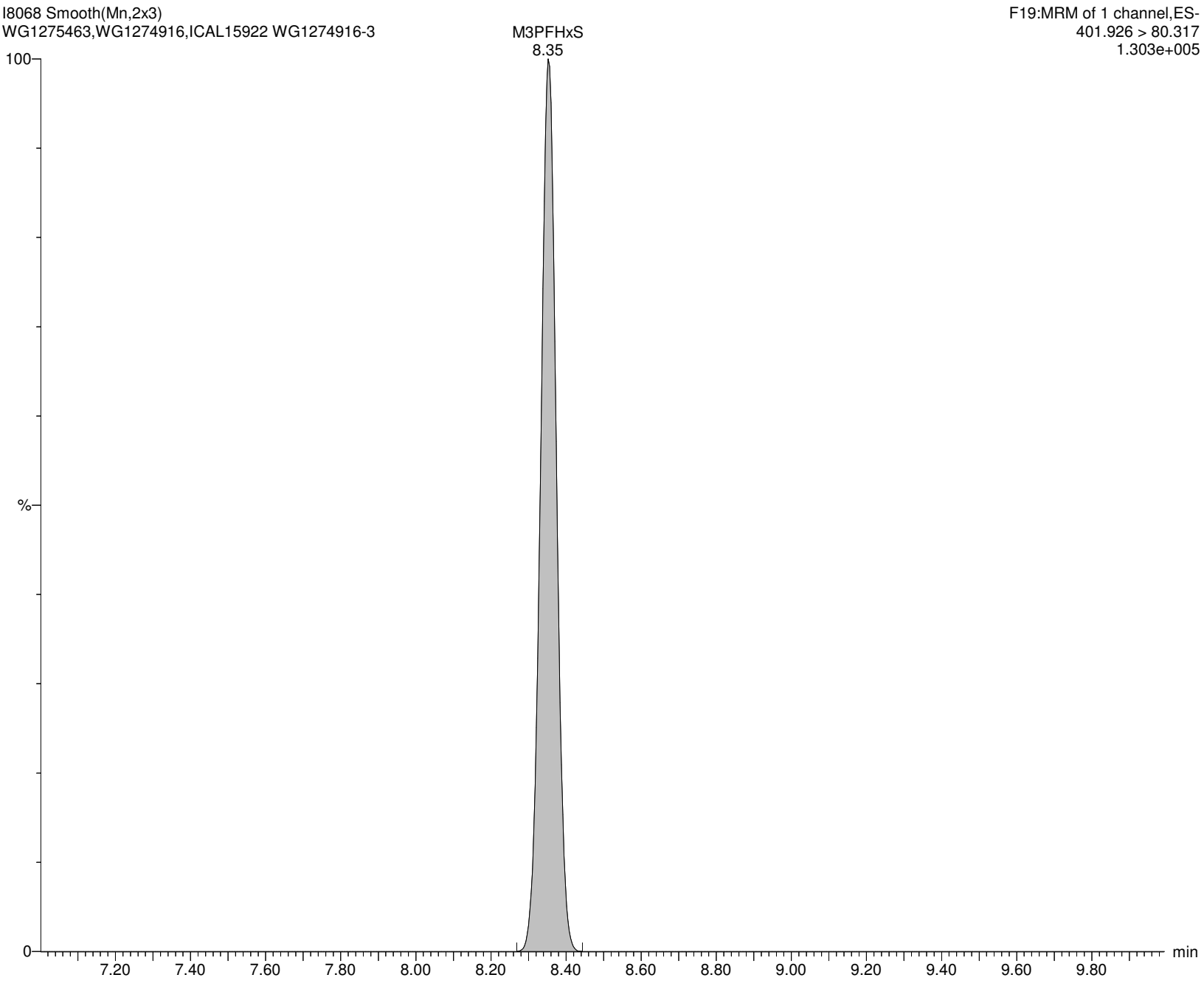


all concentration units in (ng/mL)

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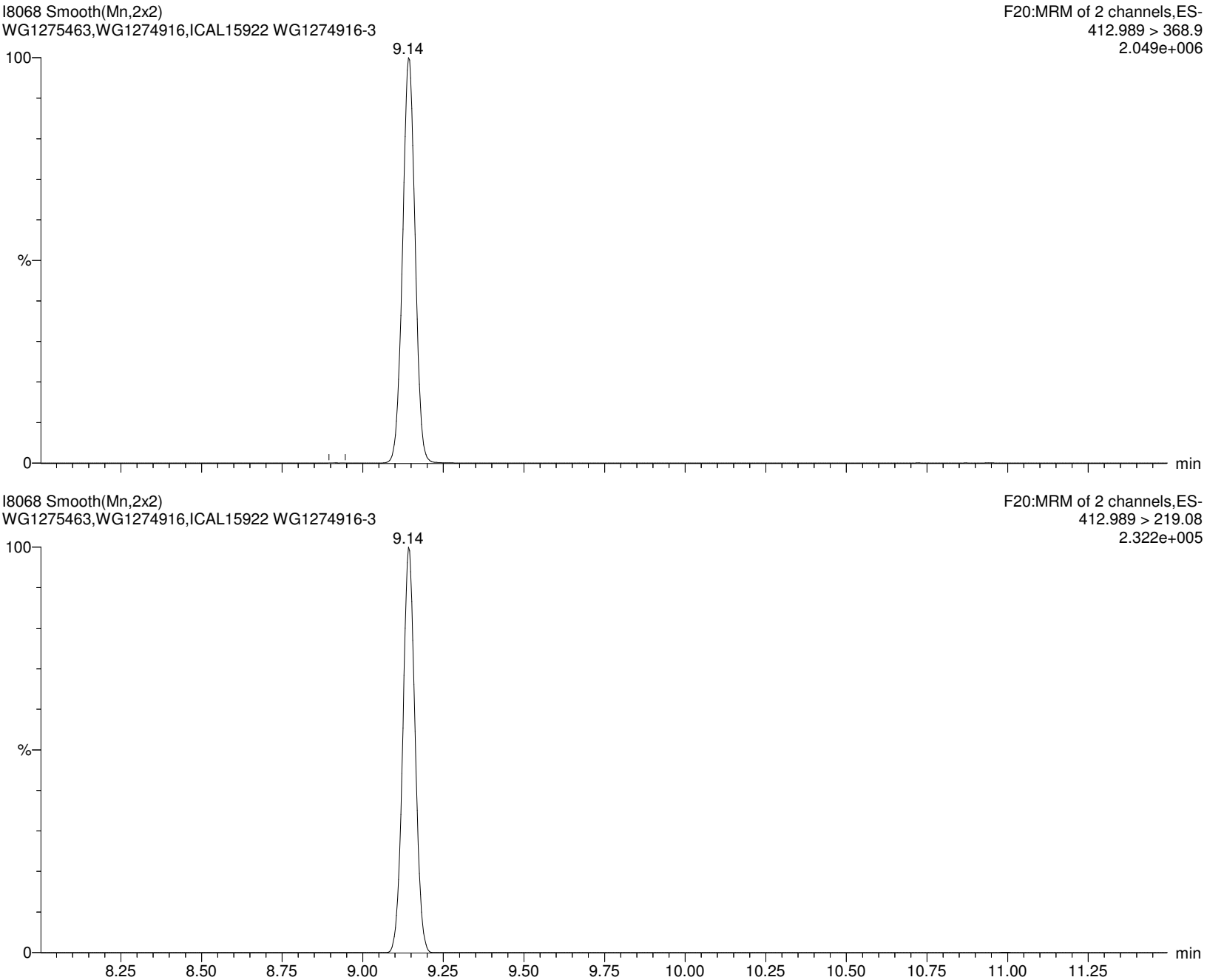


all concentration units in (ng/mL)

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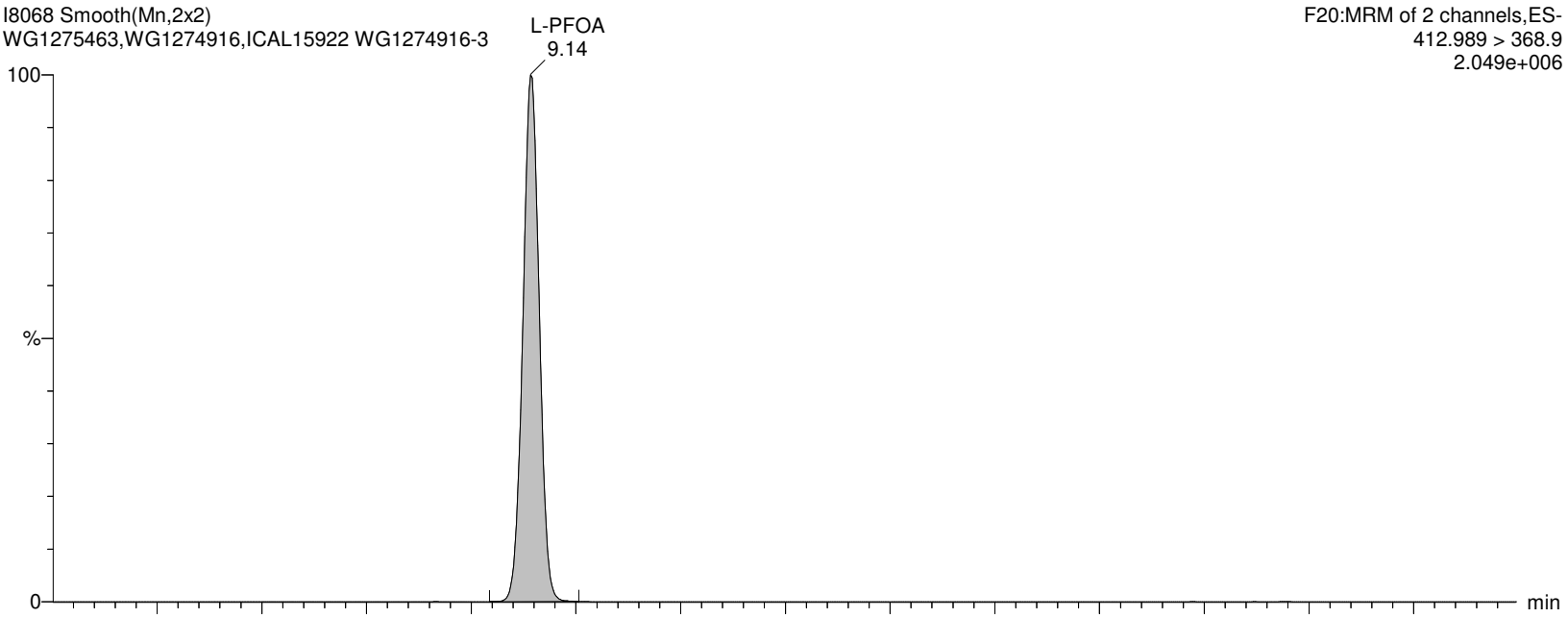


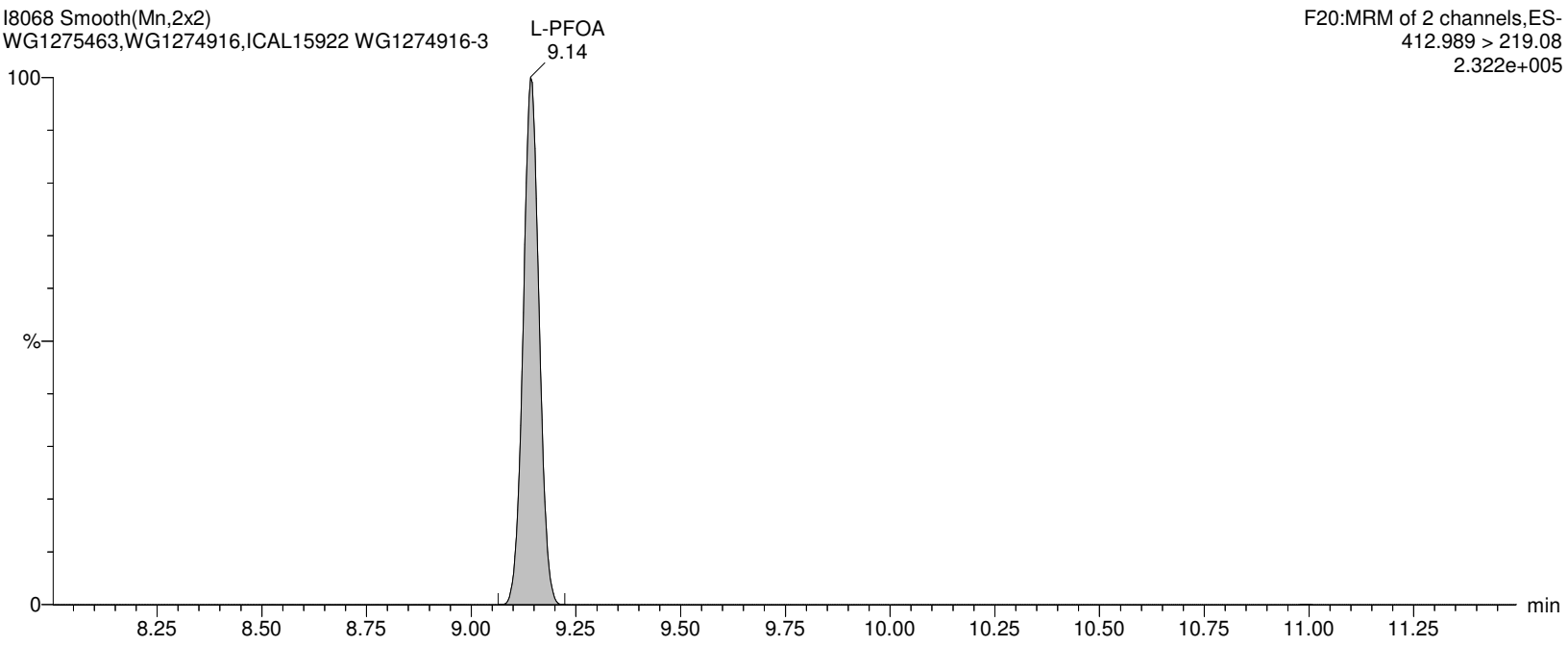
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L-PFOA



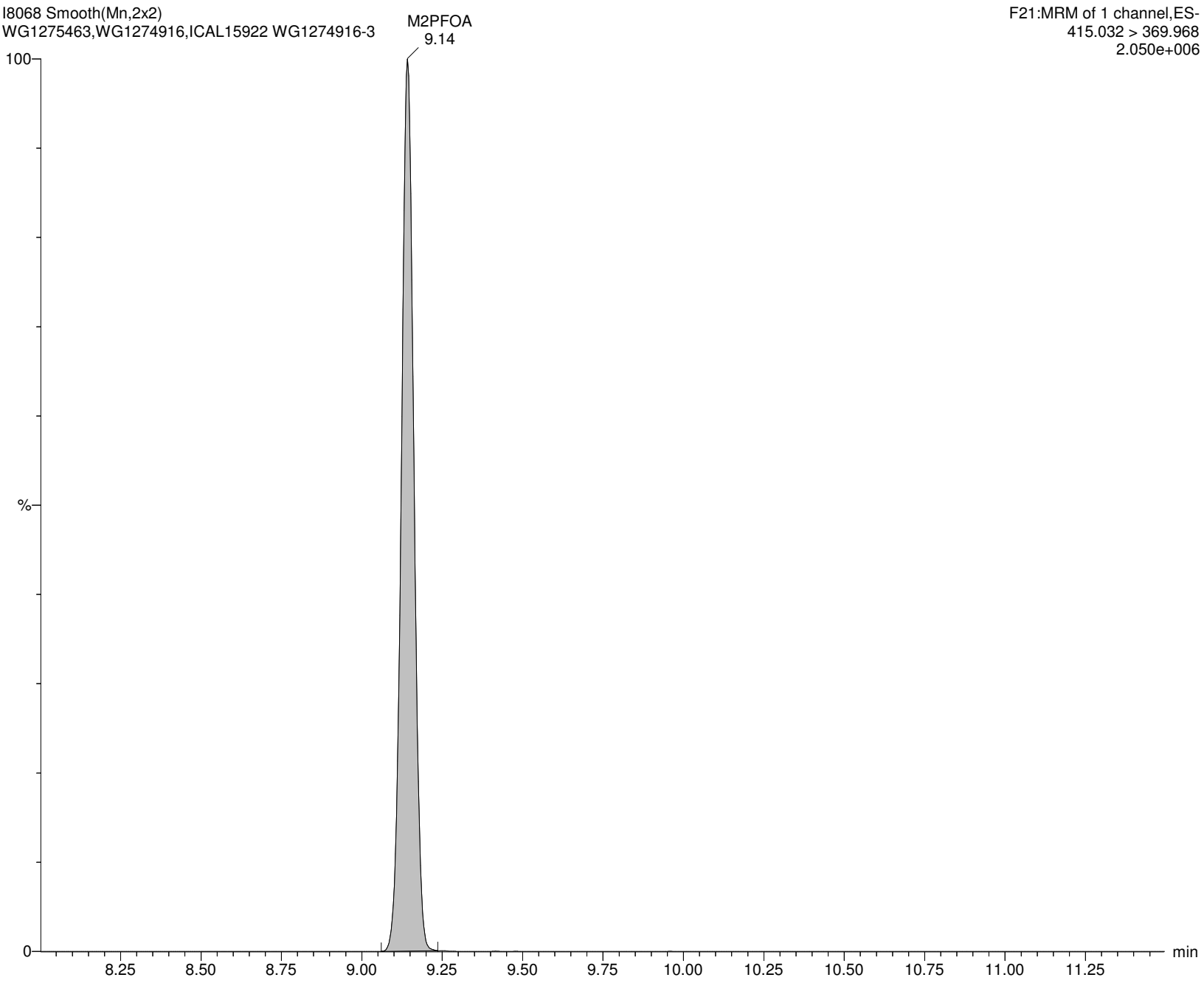


all concentration units in (ng/mL)

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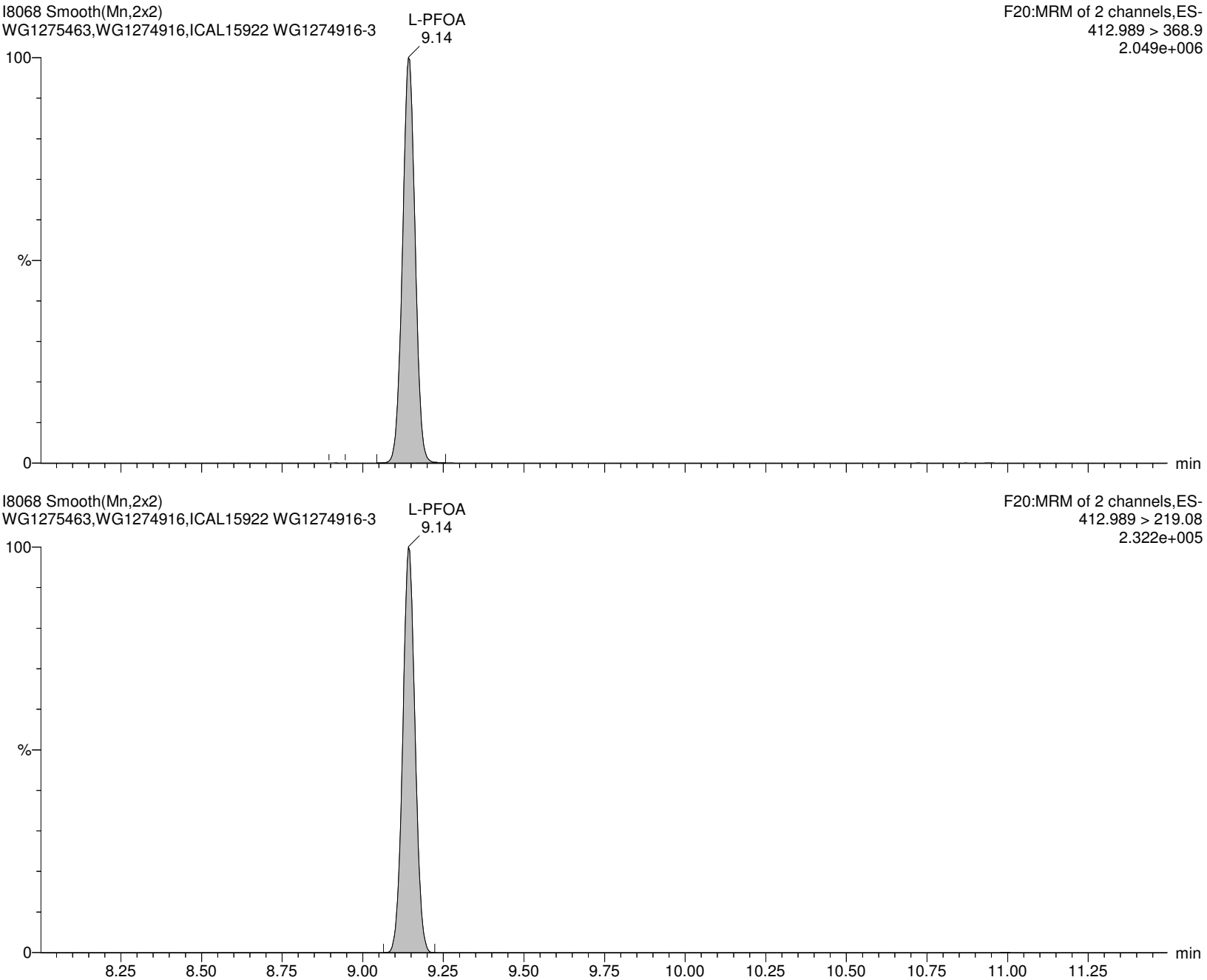


all concentration units in (ng/mL)

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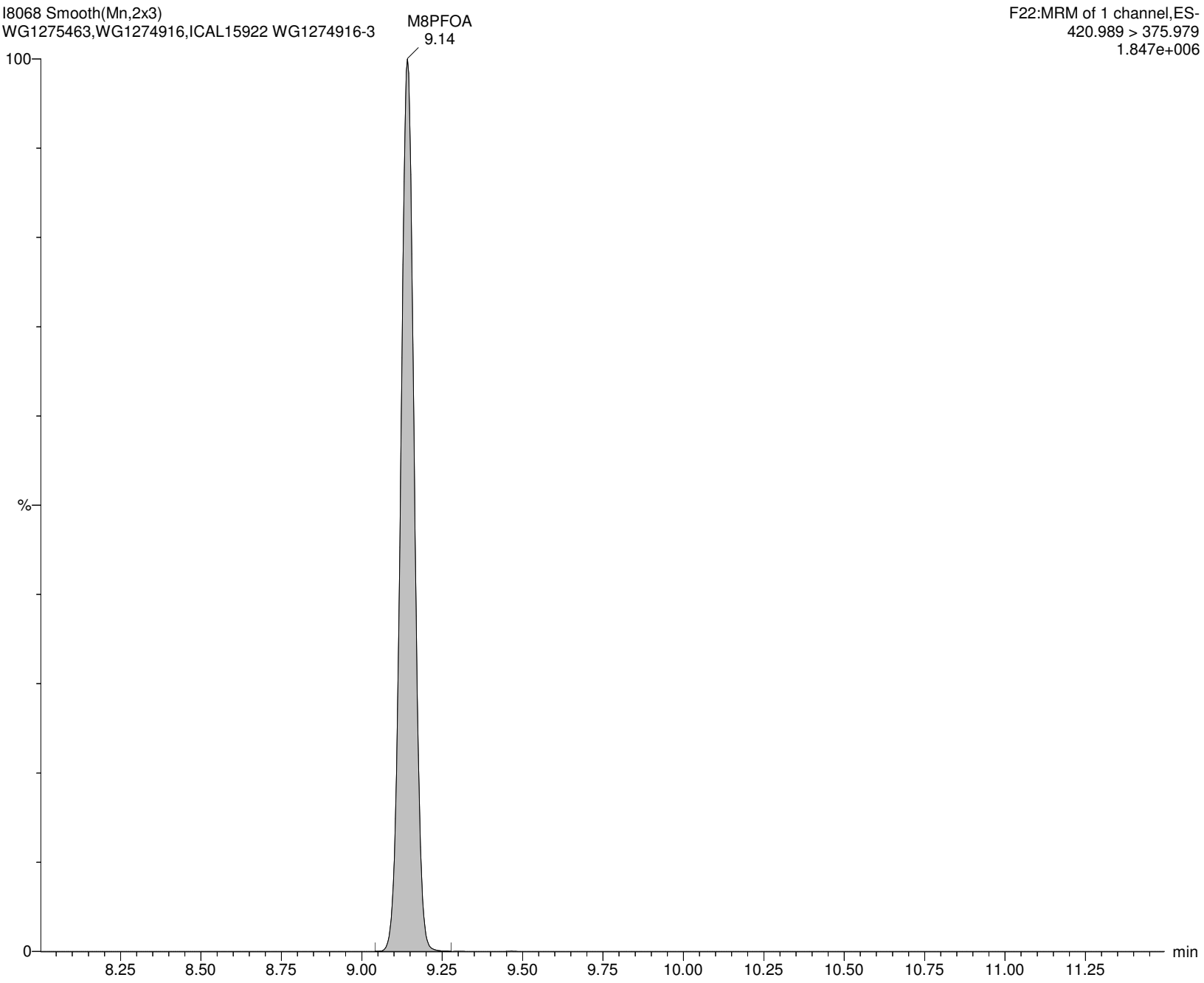


all concentration units in (ng/mL)

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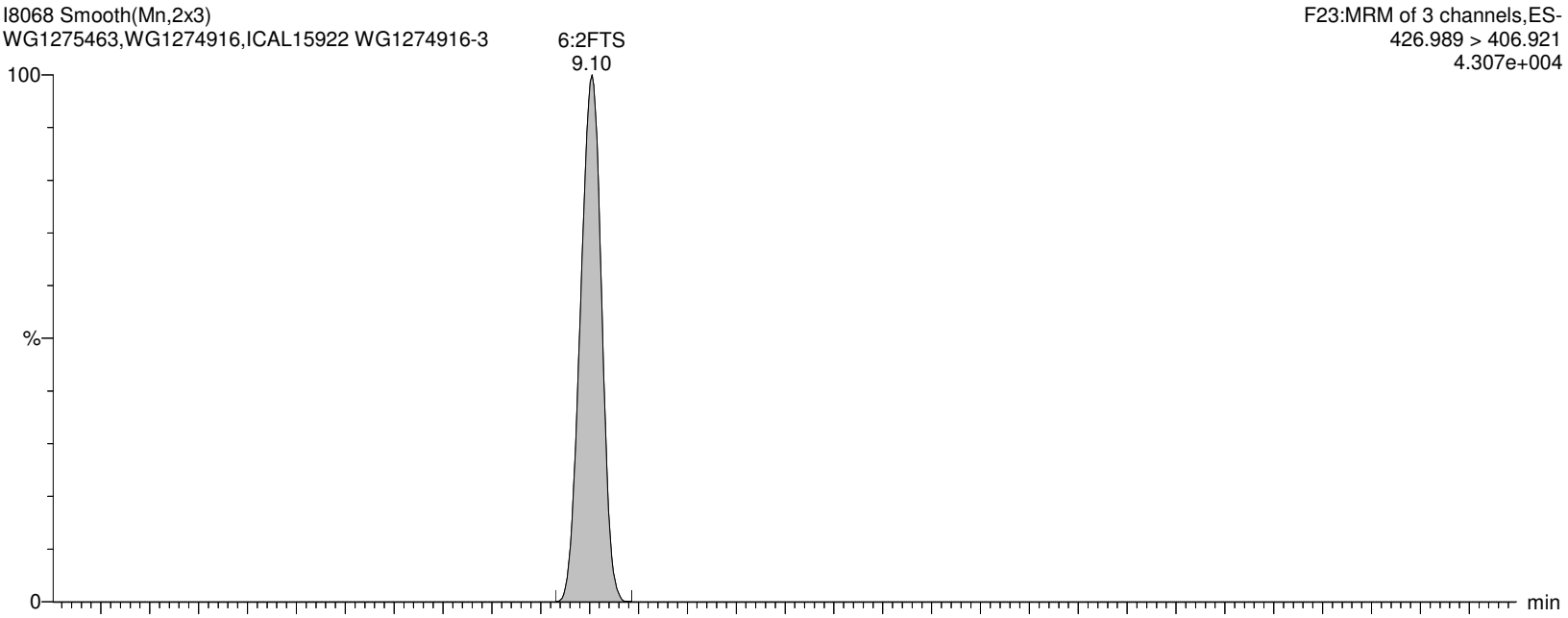


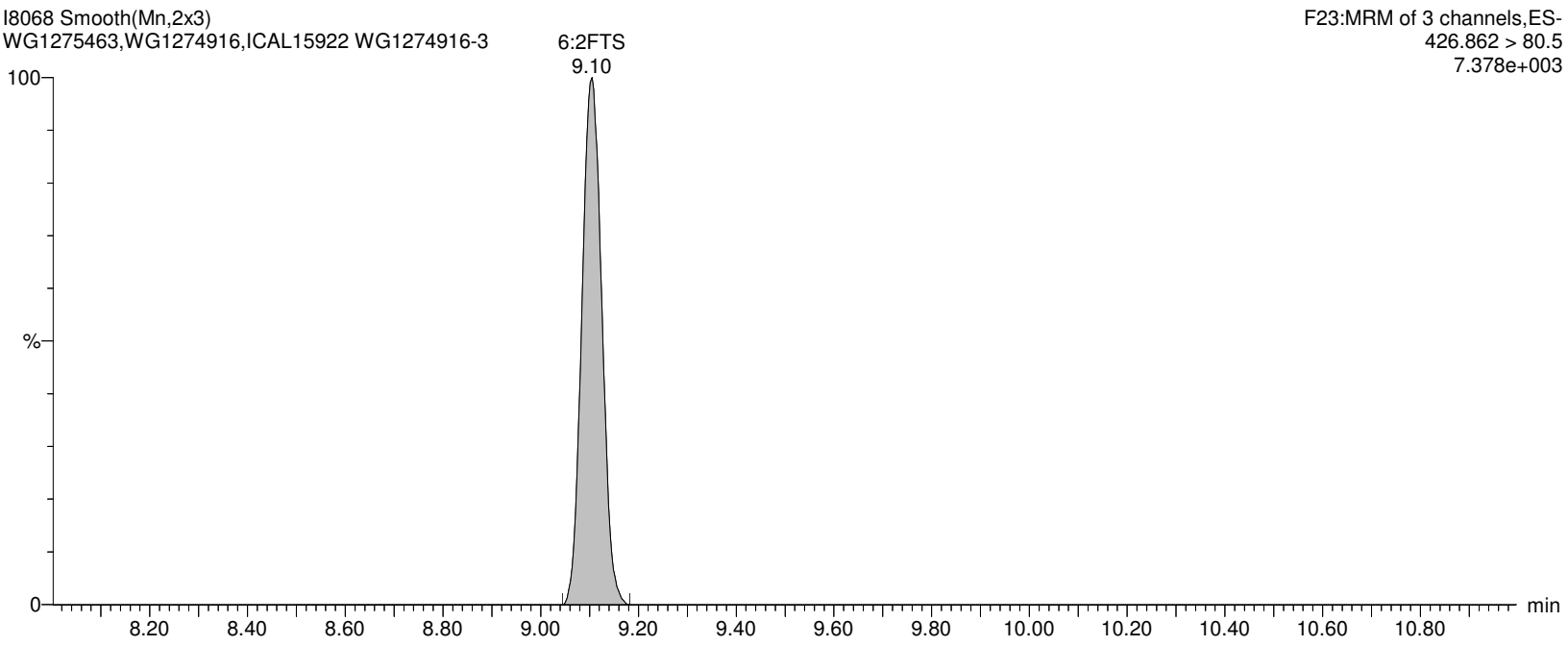
all concentration units in (ng/mL)

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6:2FTS



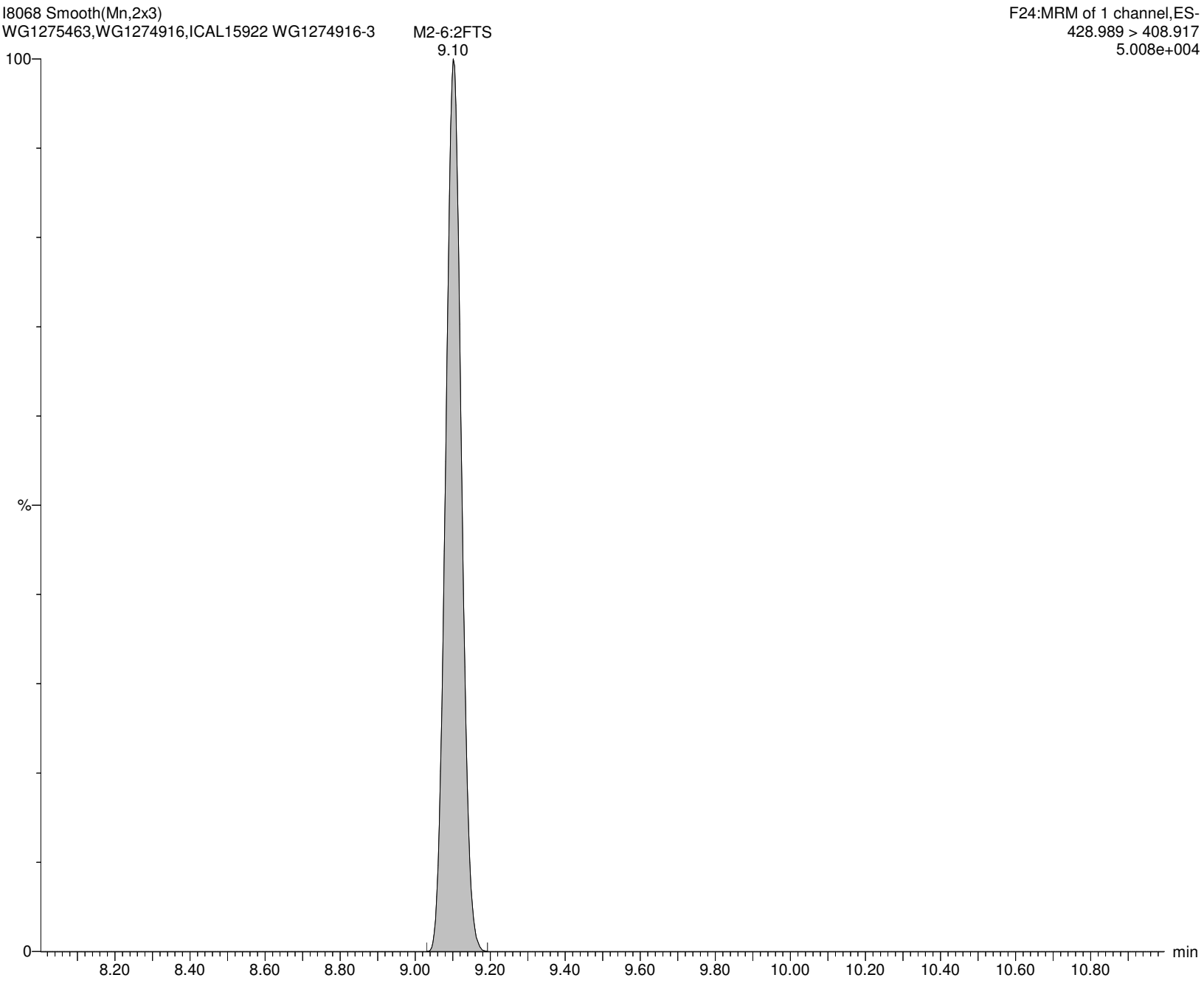


all concentration units in (ng/mL)

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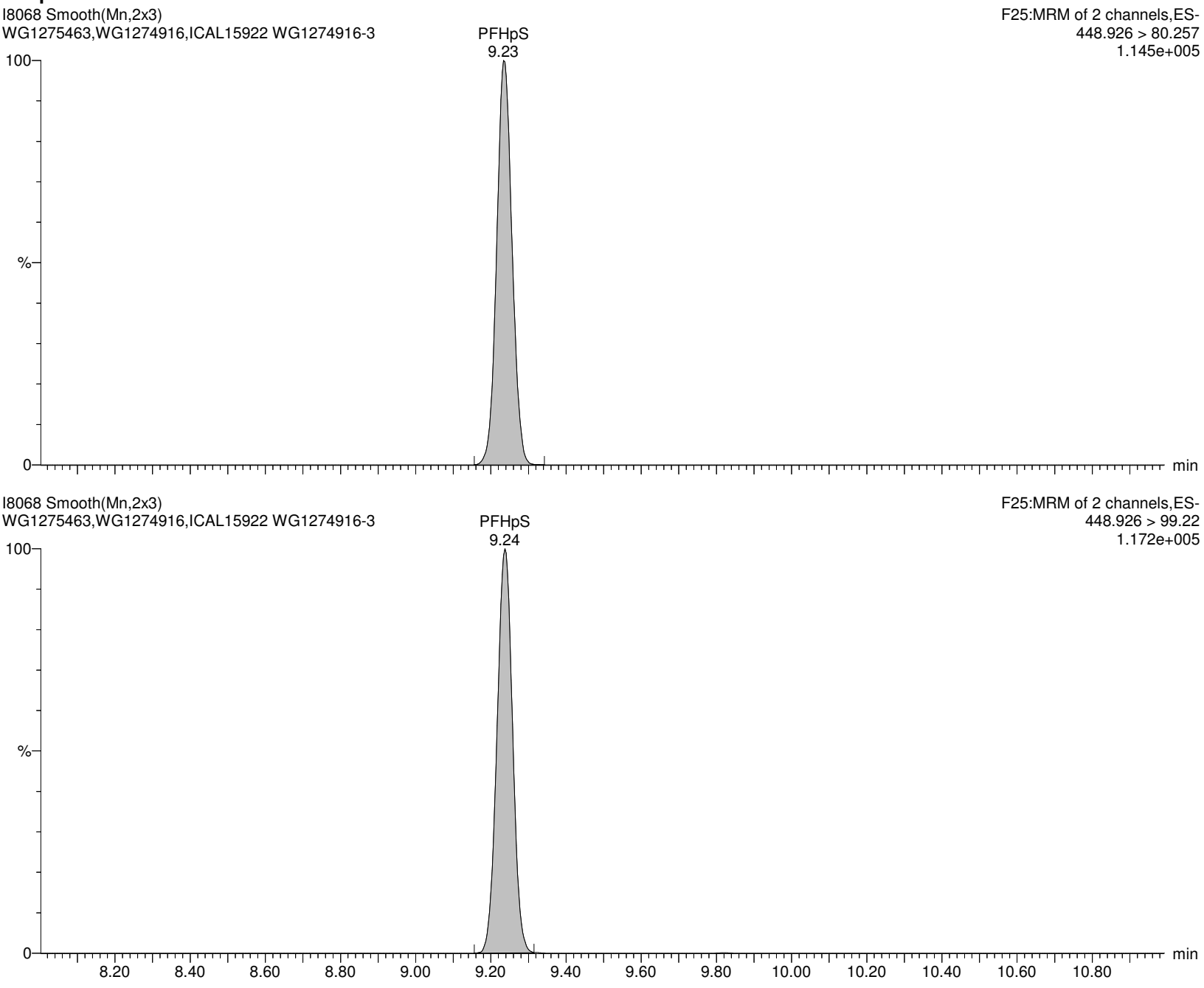


all concentration units in (ng/mL)

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PFHpS

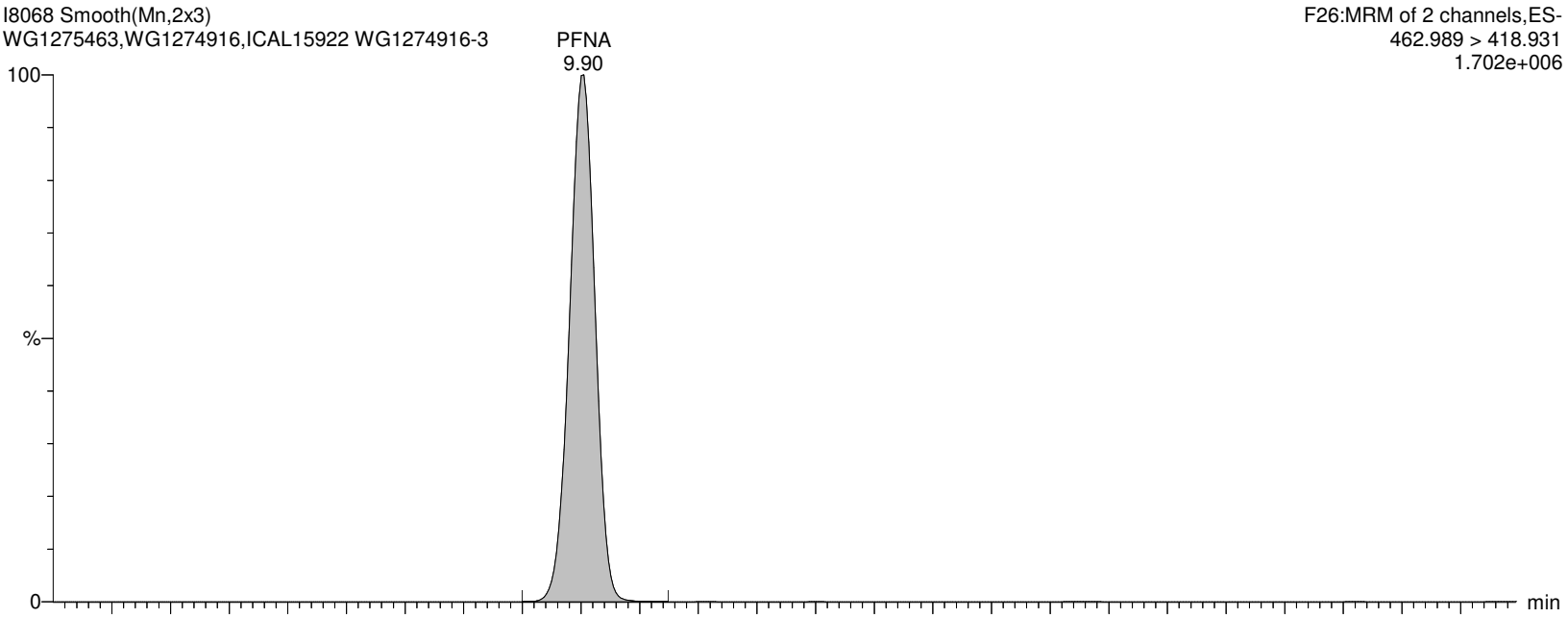


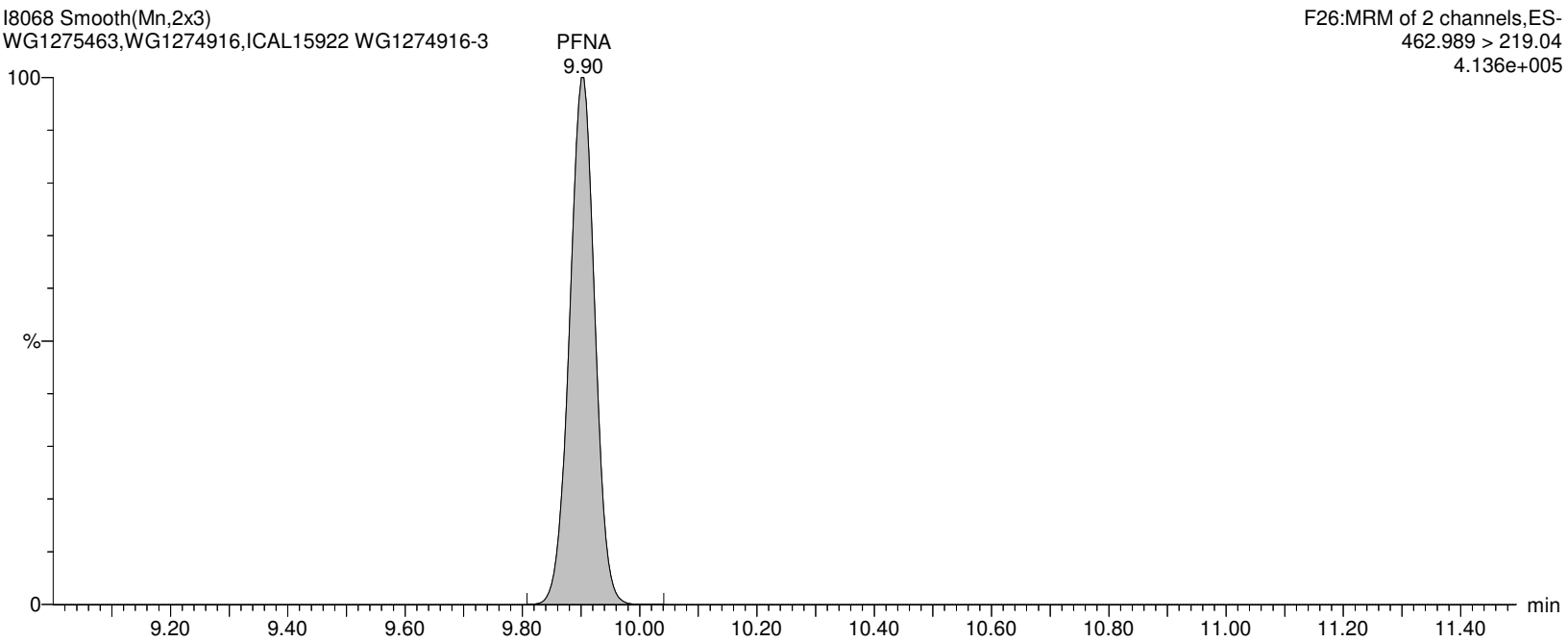
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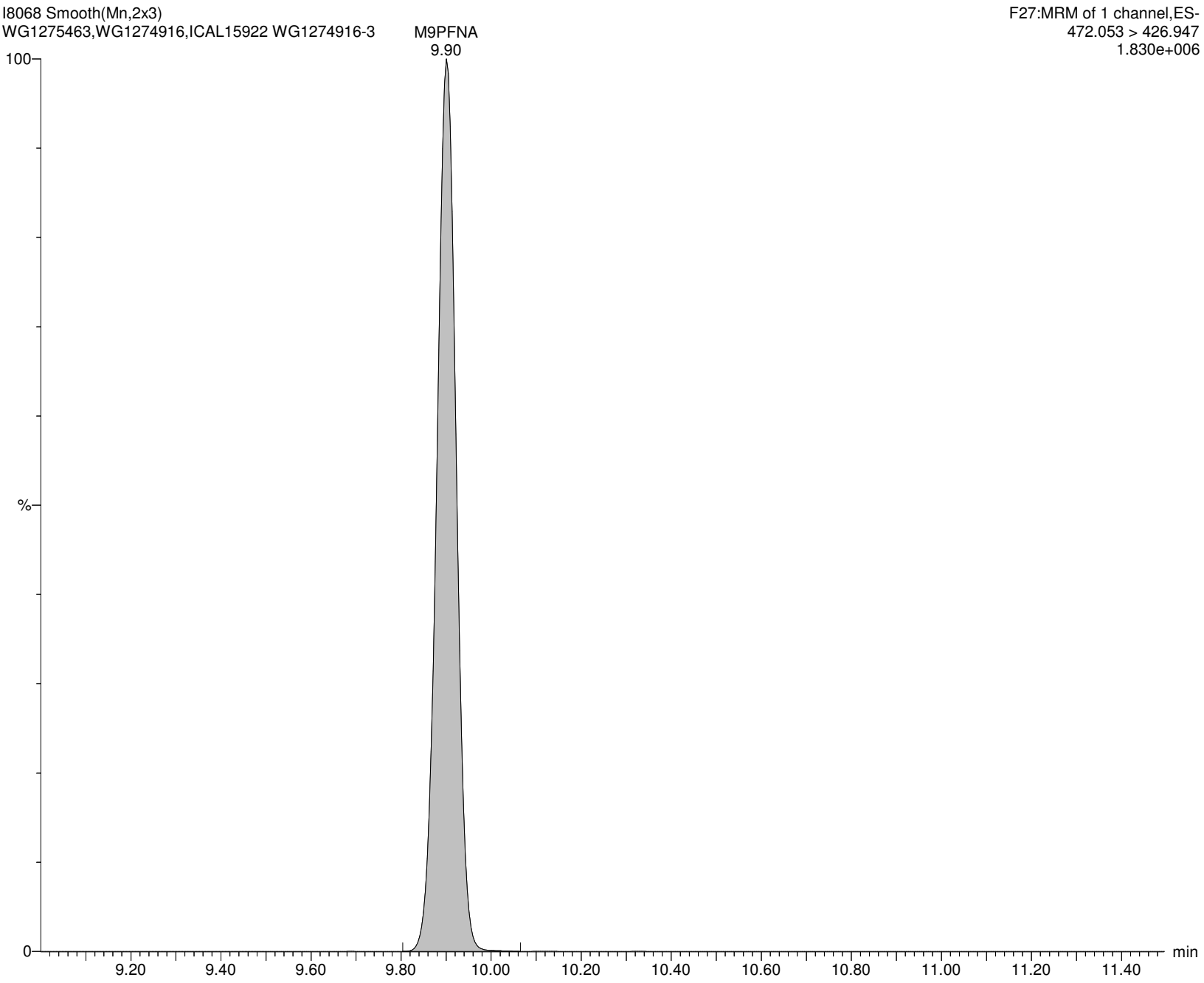


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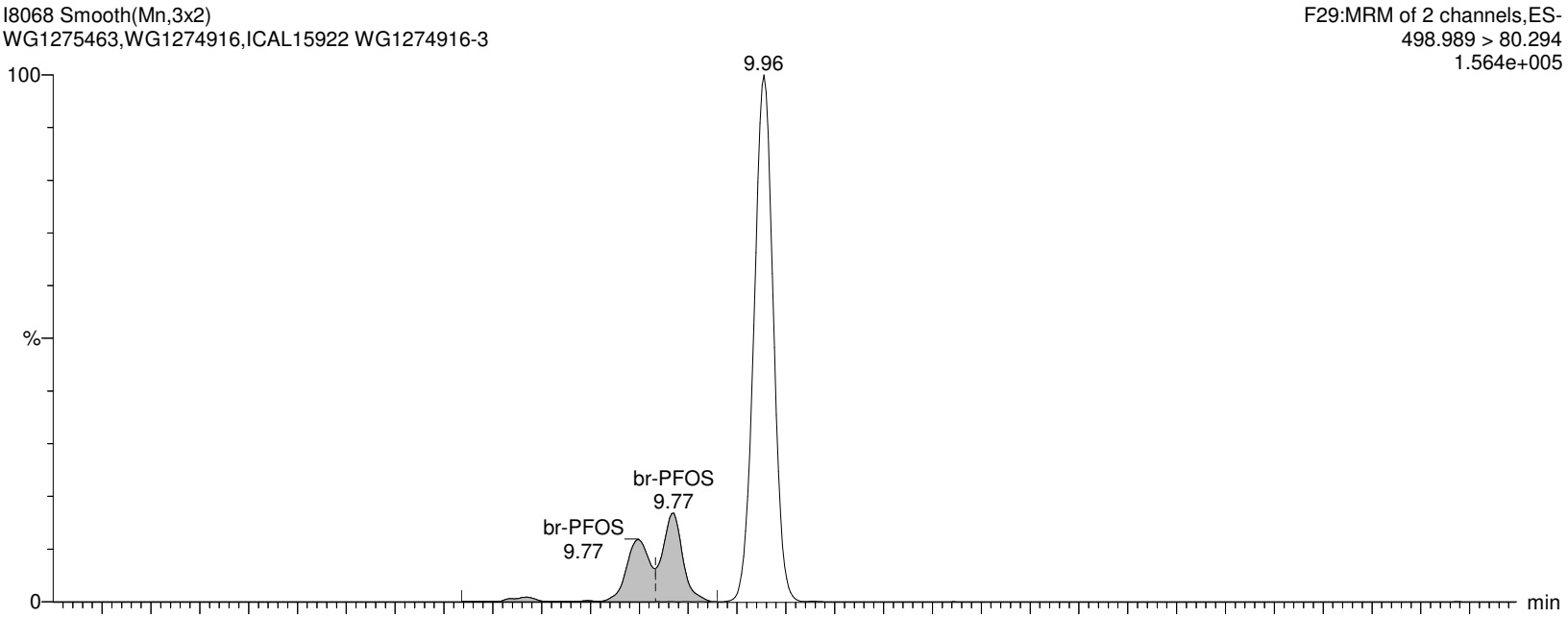


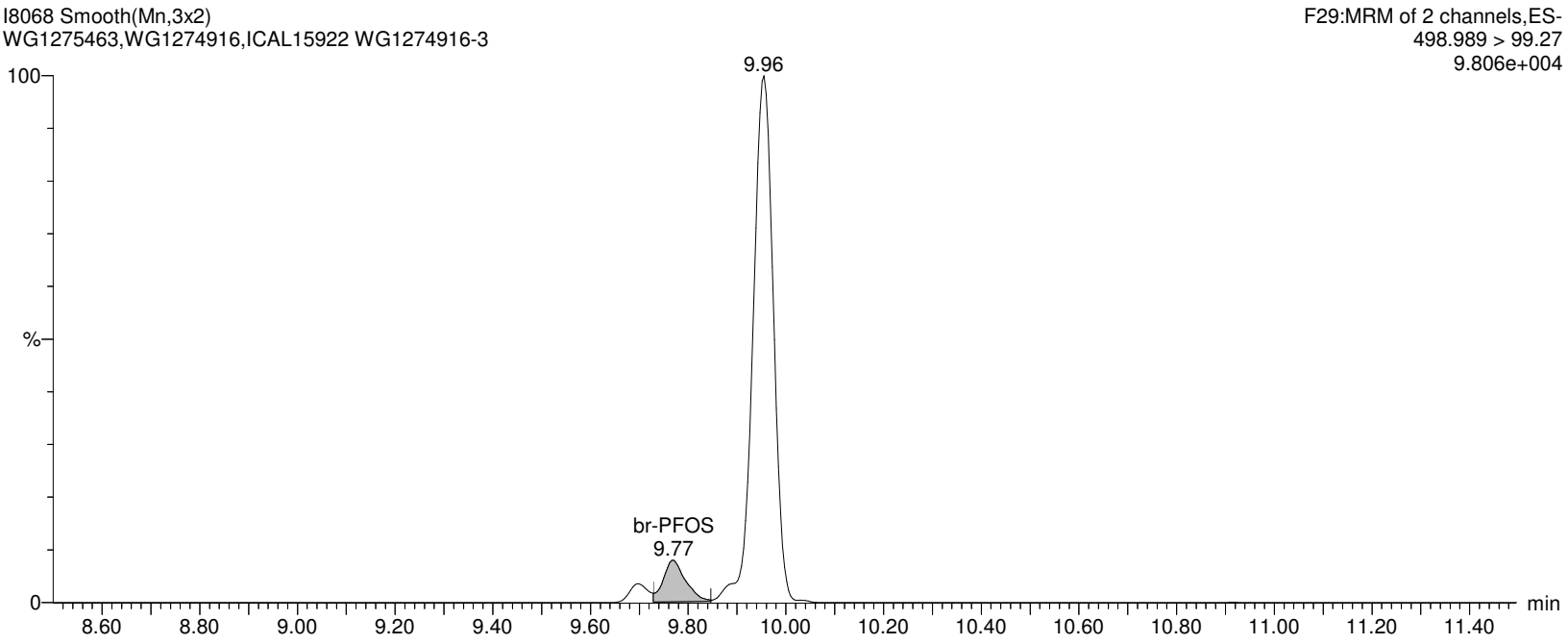
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Vial: 1:B,8
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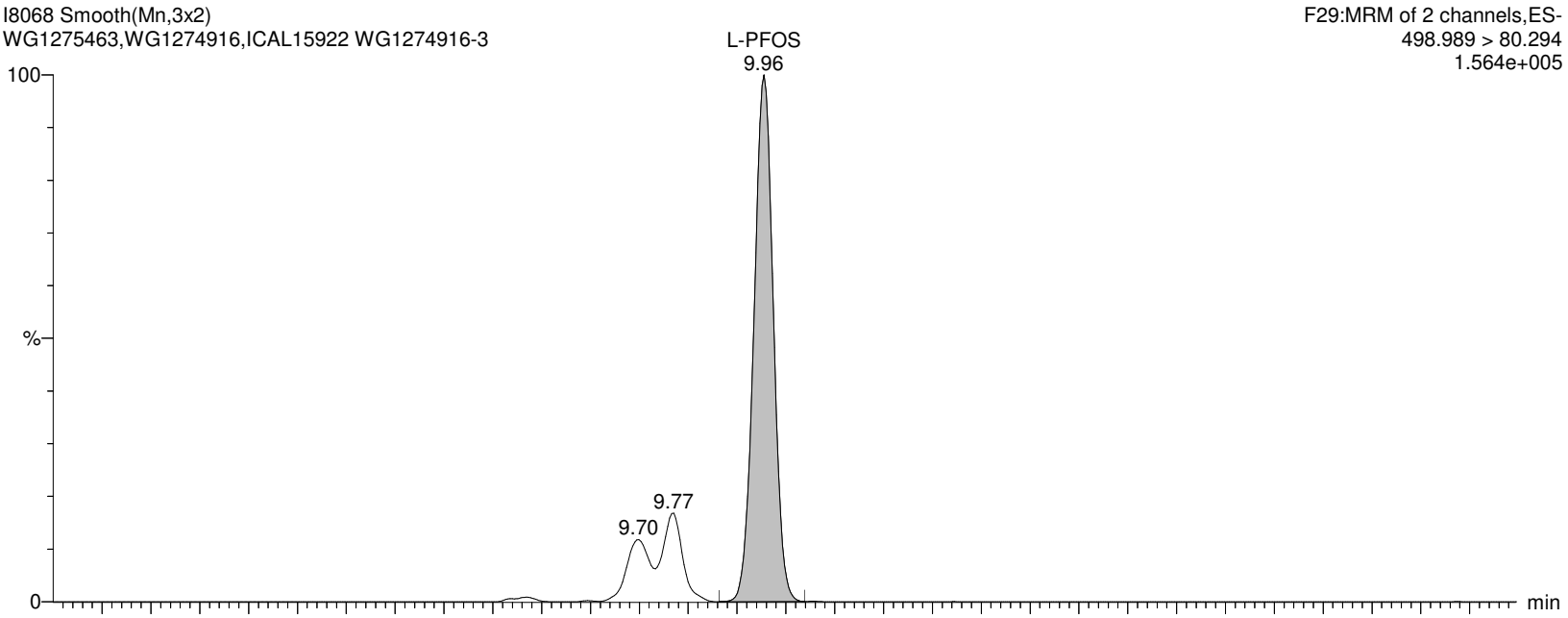


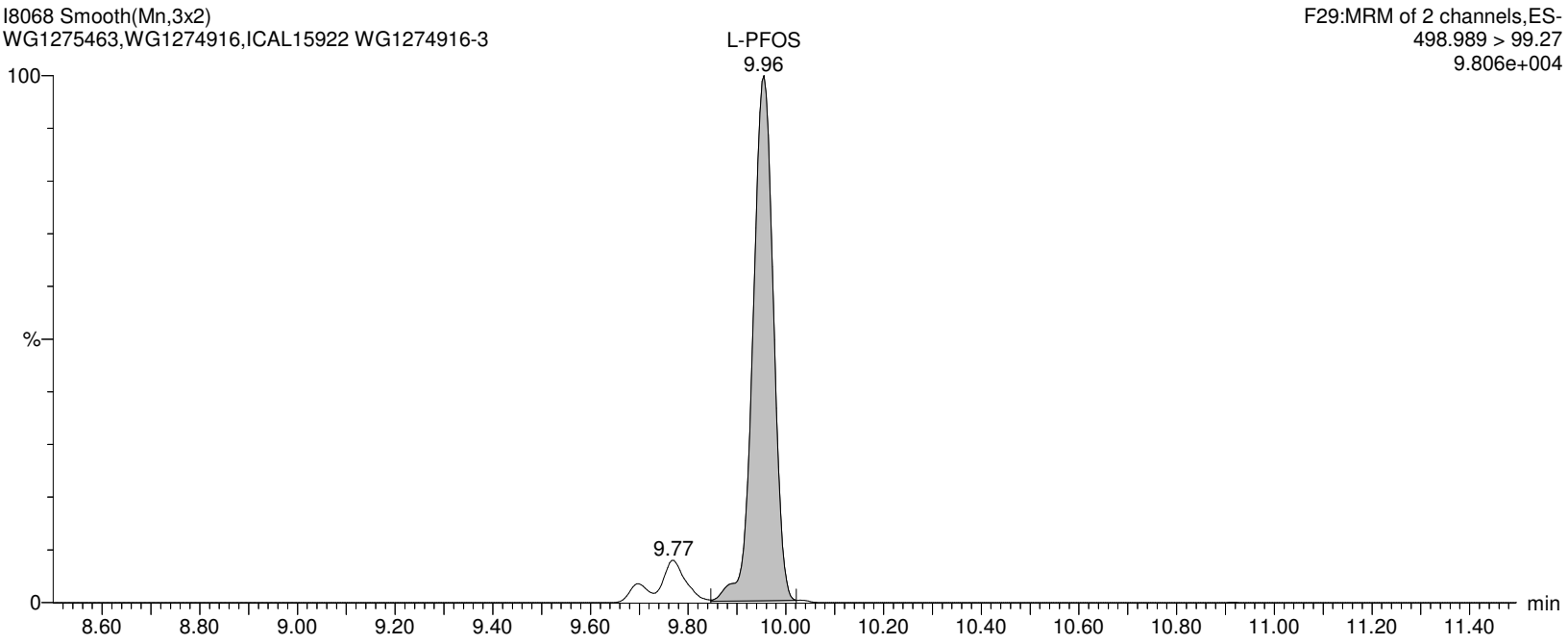
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
Last Altered: Thursday, August 22, 2019 13:45:42 Eastern Daylight Time
Printed: Thursday, August 22, 2019 13:49:30 Eastern Daylight Time

Name: I8068
ID: WG1274916-3
Date: 22-Aug-2019
Time: 12:17:16
Description: WG1275463,WG1274916,ICAL15922
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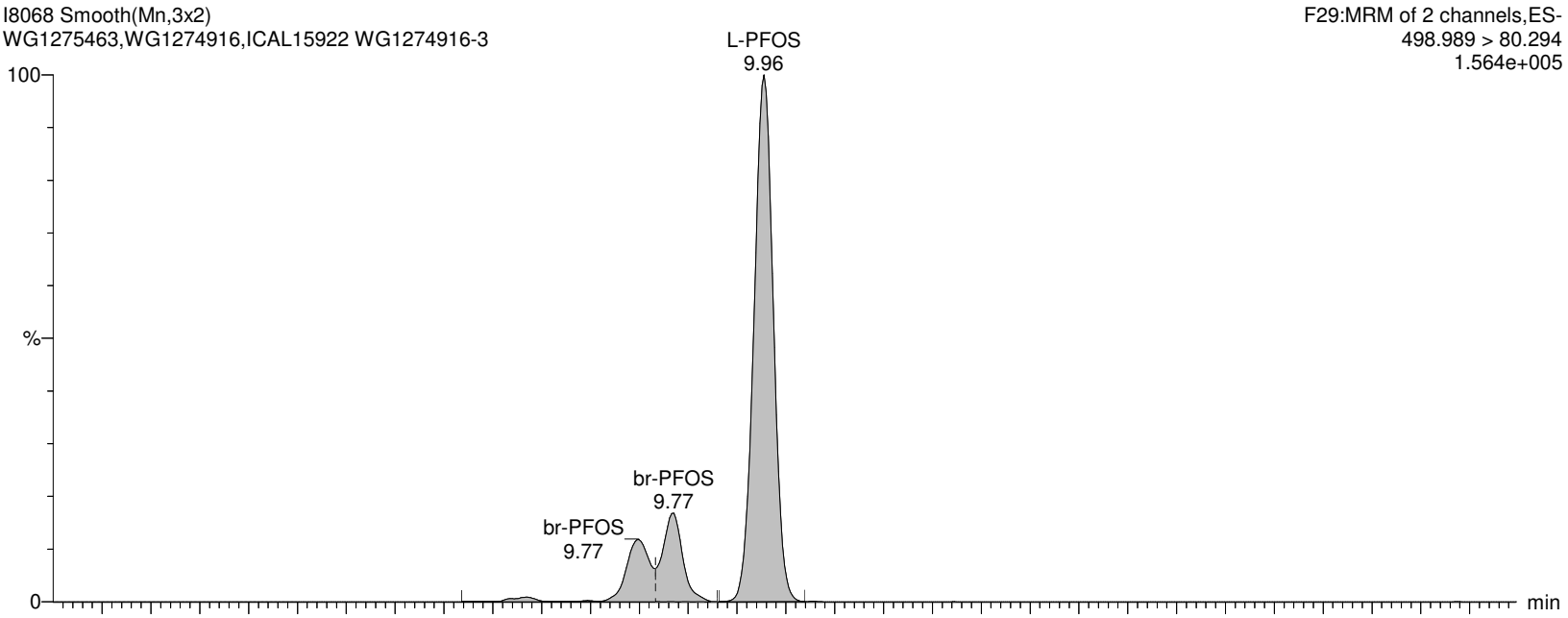


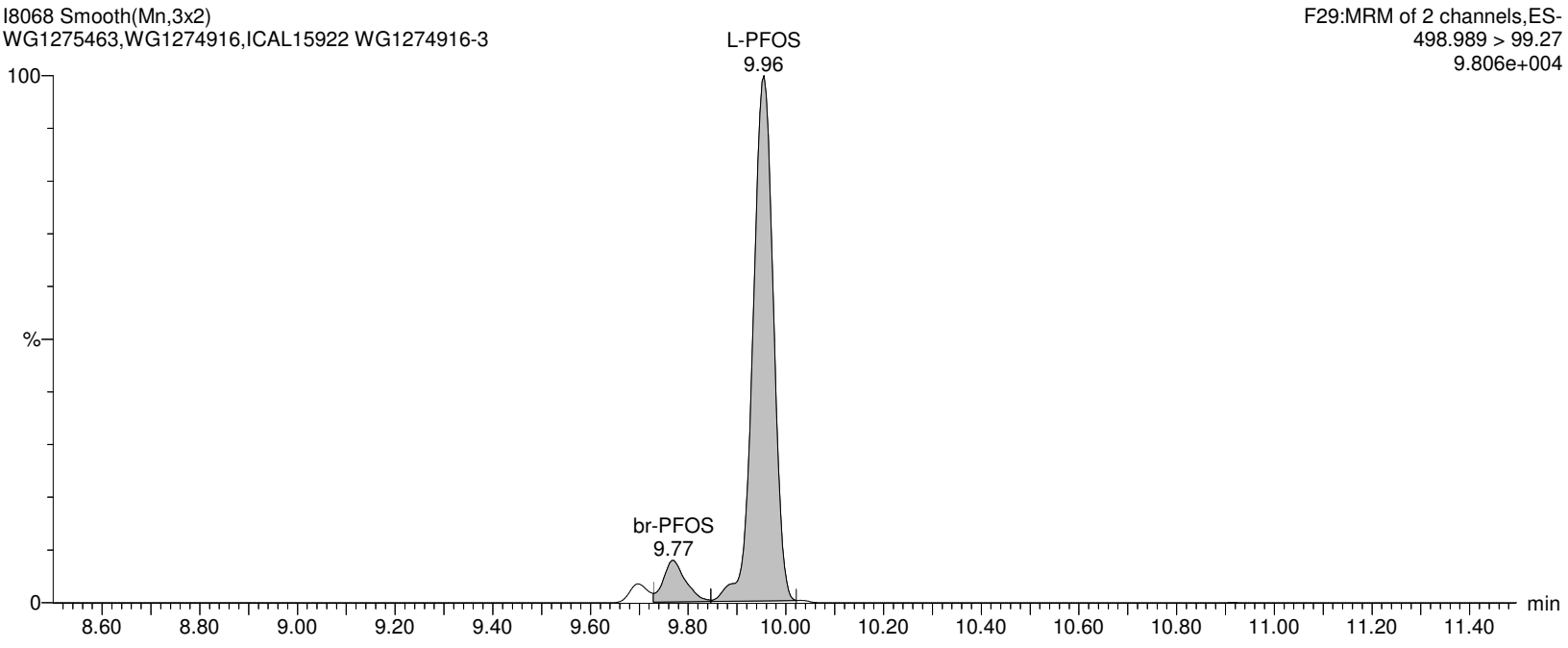
all concentration units in (ng/mL)

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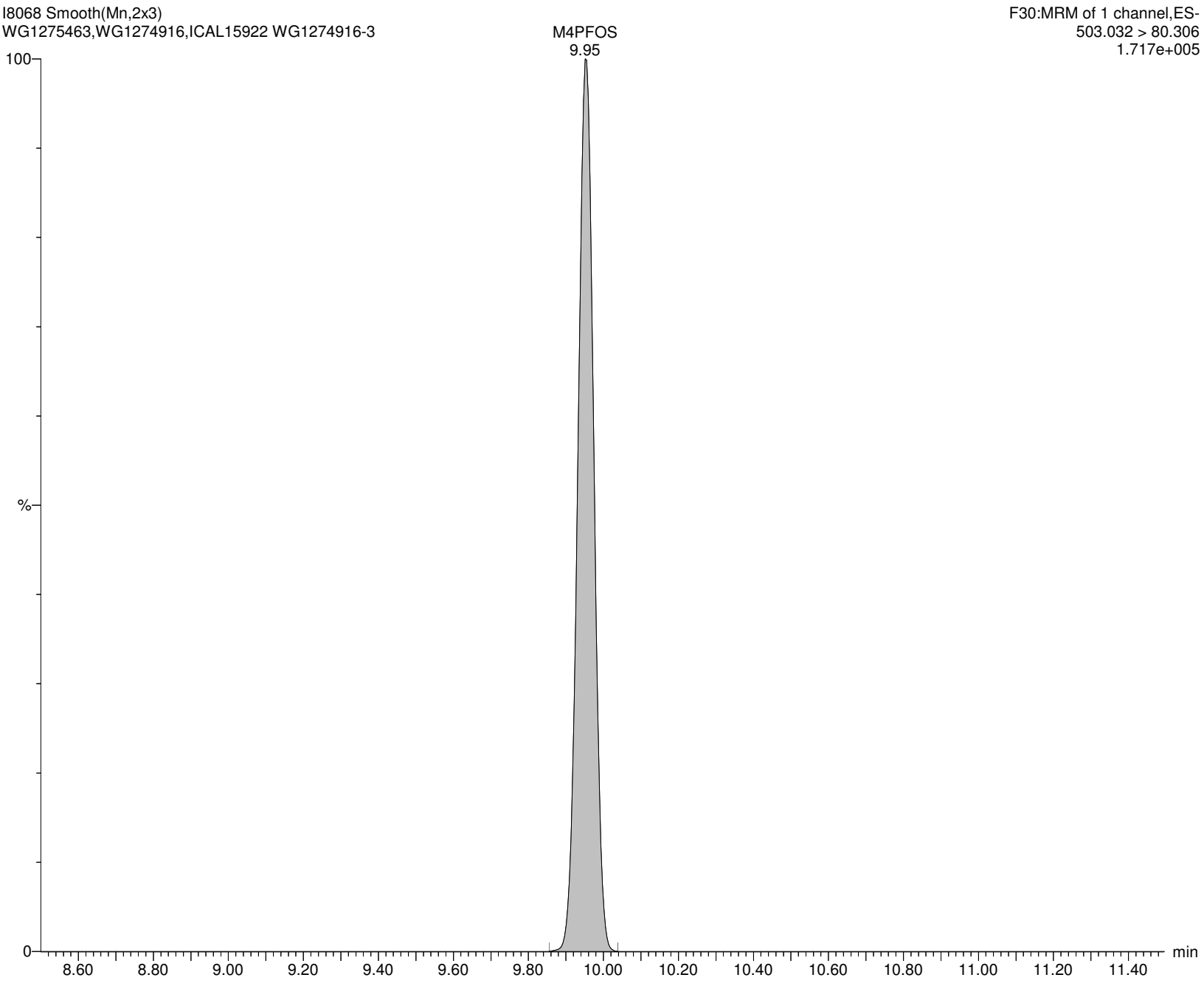


all concentration units in (ng/mL)

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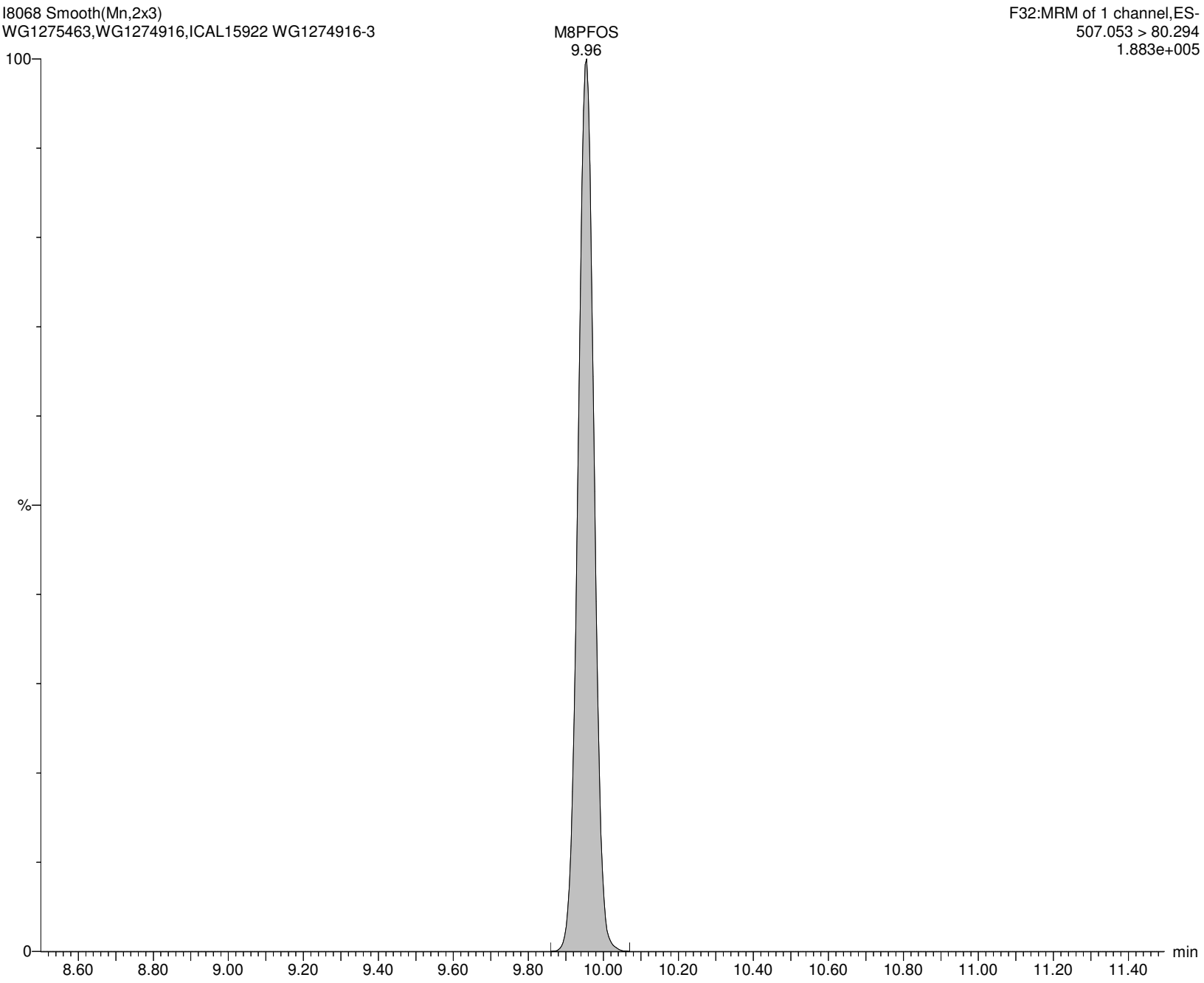


all concentration units in (ng/mL)

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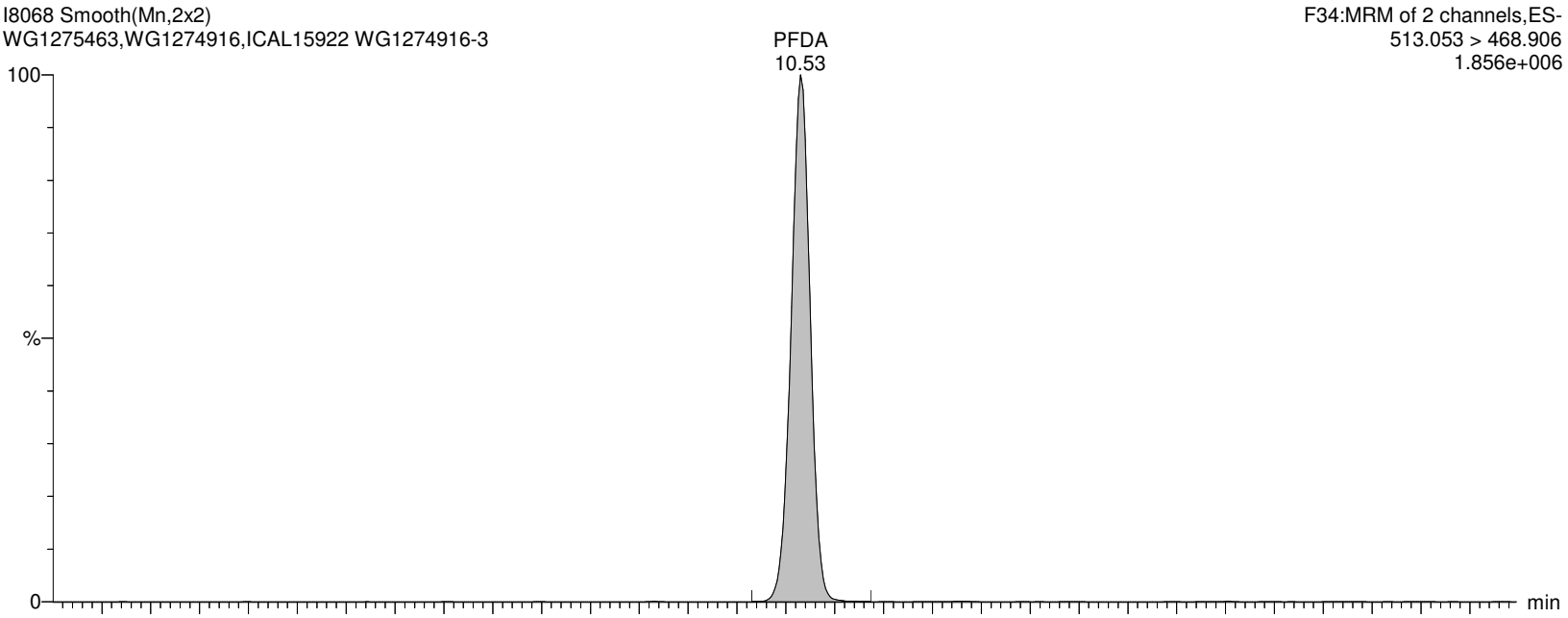


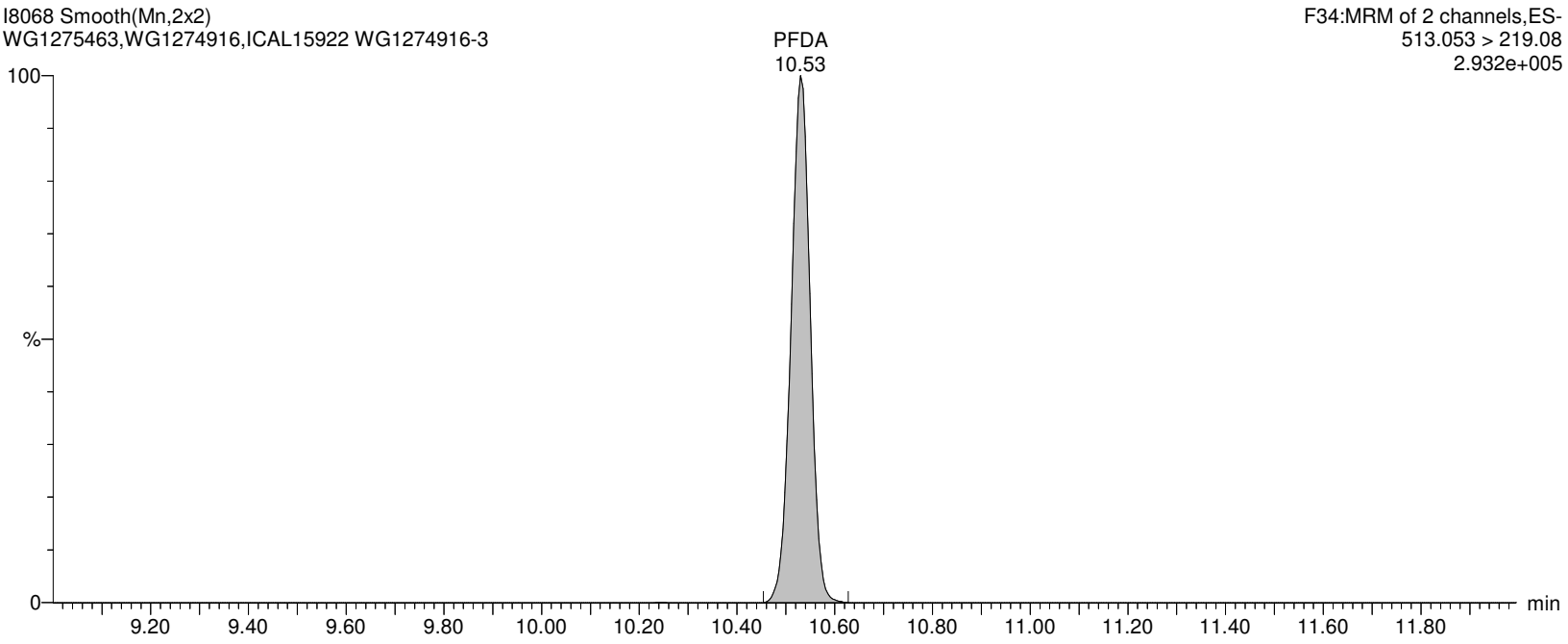
all concentration units in (ng/mL)

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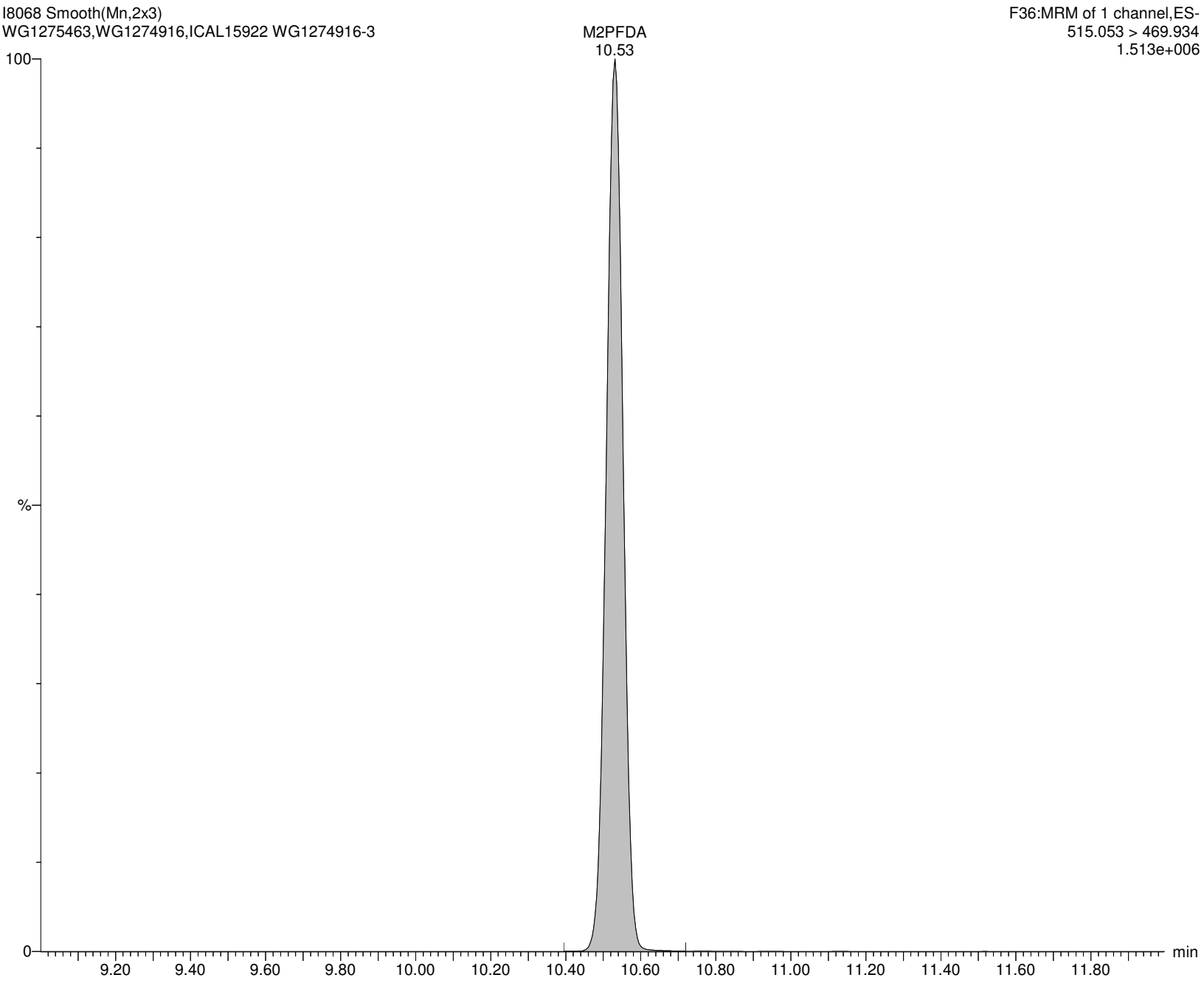


all concentration units in (ng/mL)

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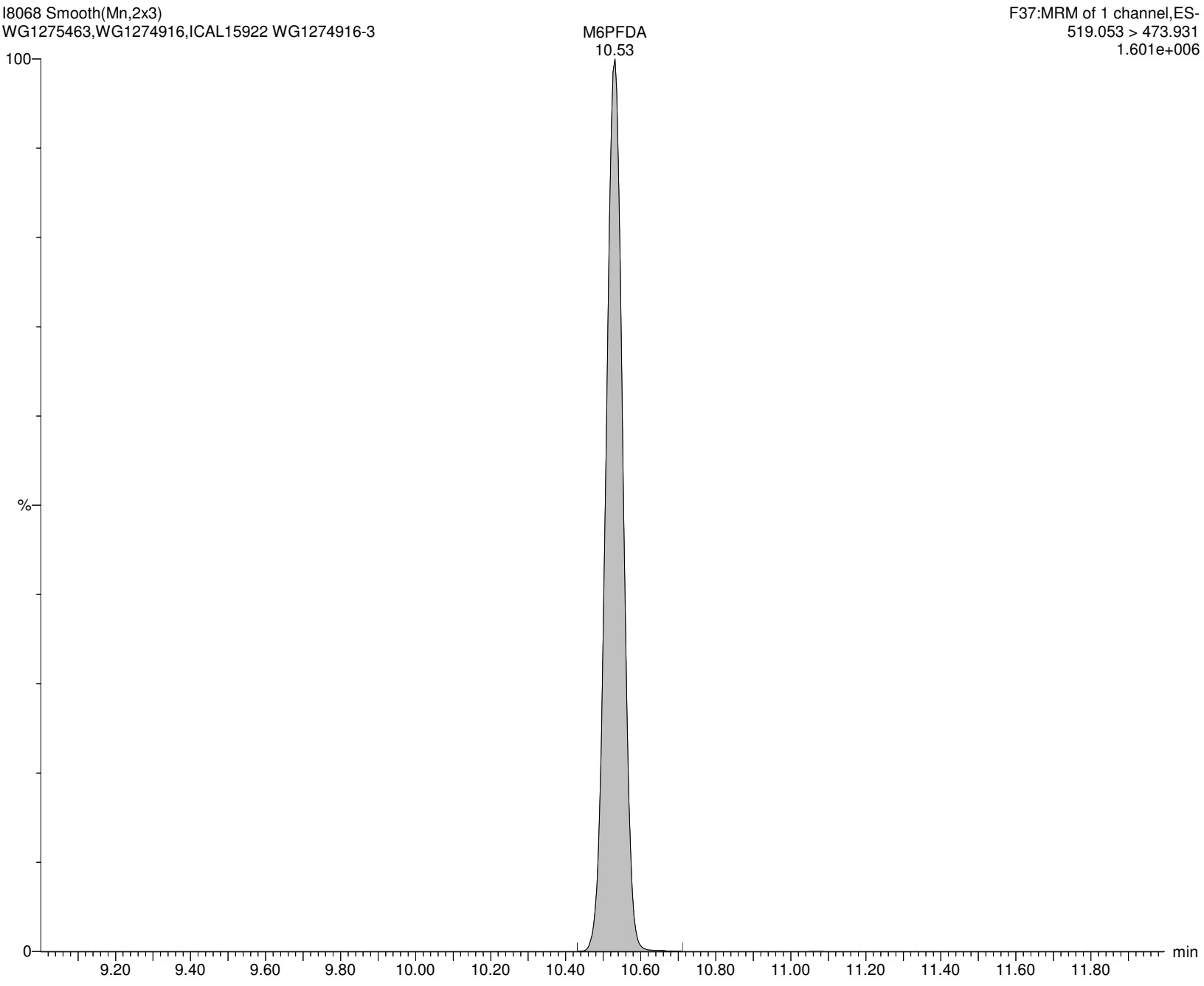


all concentration units in (ng/mL)

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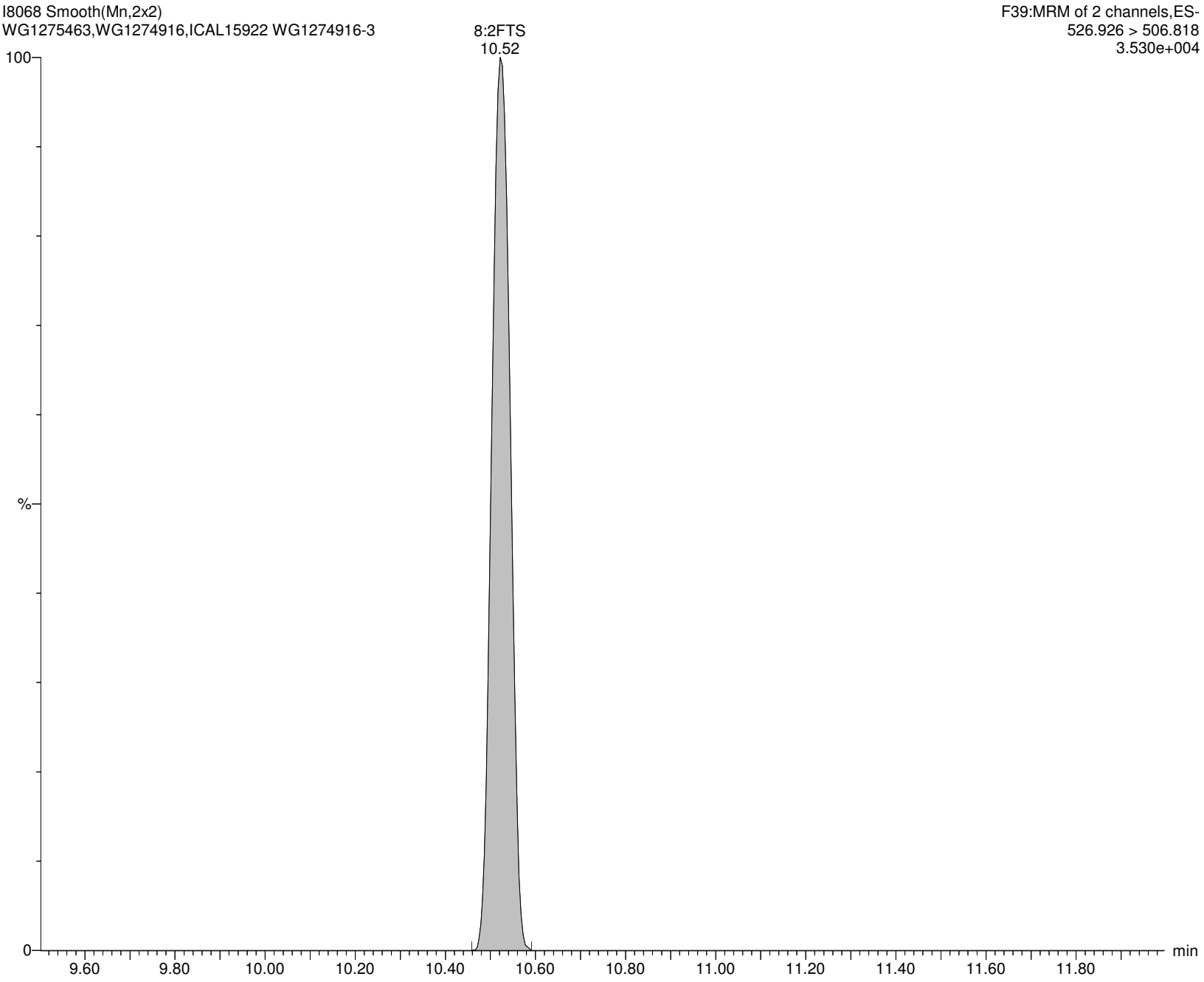


all concentration units in (ng/mL)

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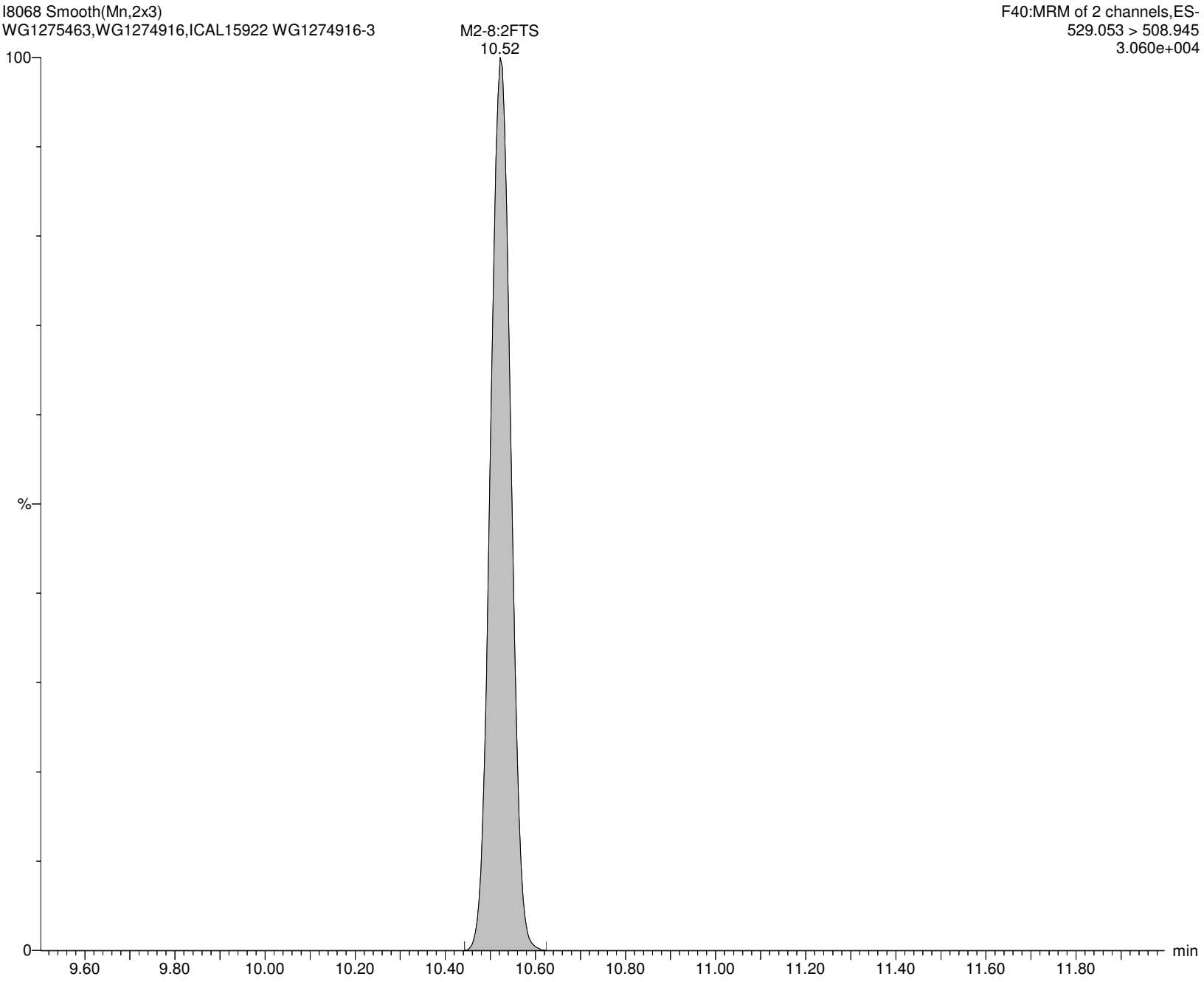


all concentration units in (ng/mL)

Alpha Analytical Inc.
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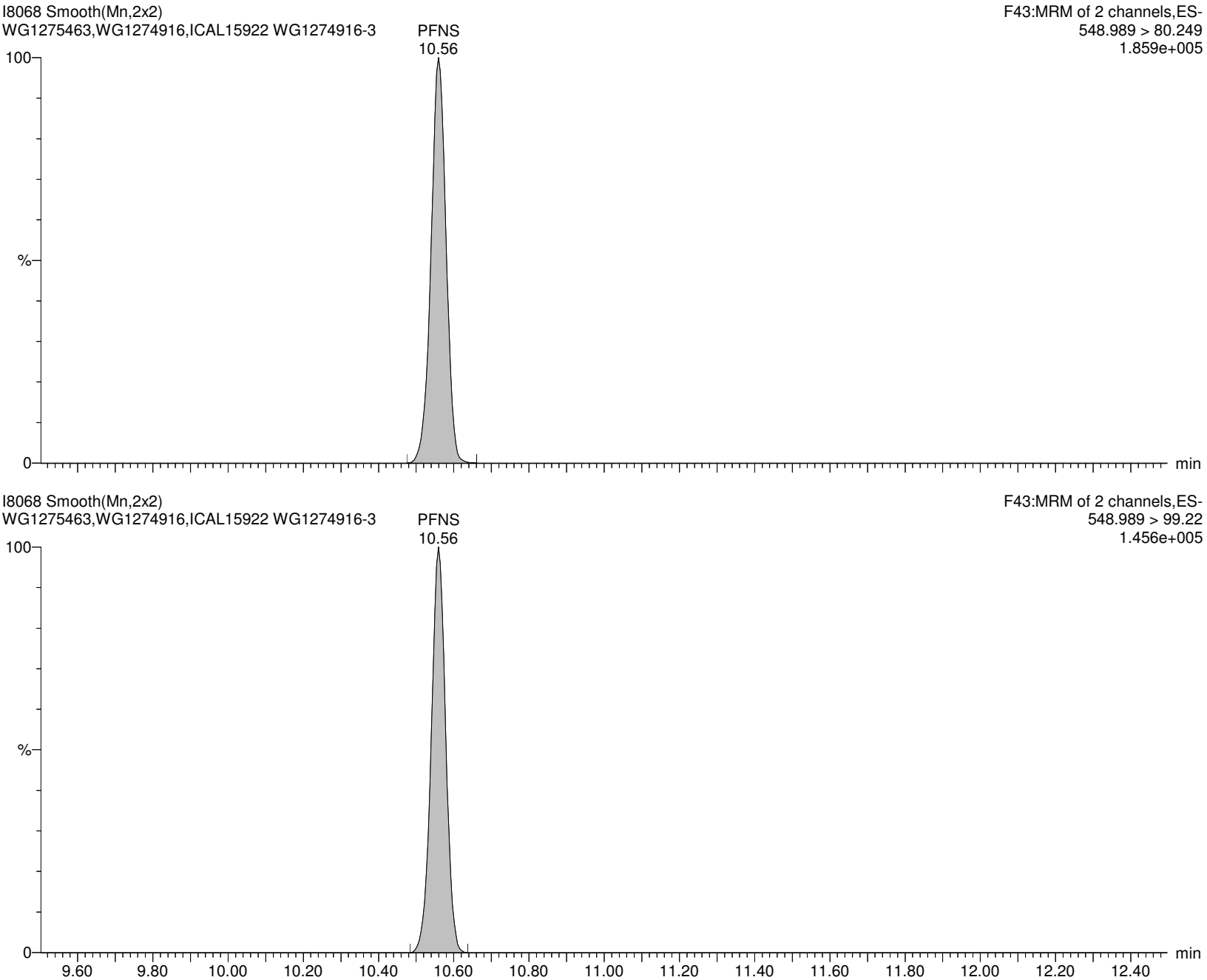


all concentration units in (ng/mL)

Alpha Analytical Inc.
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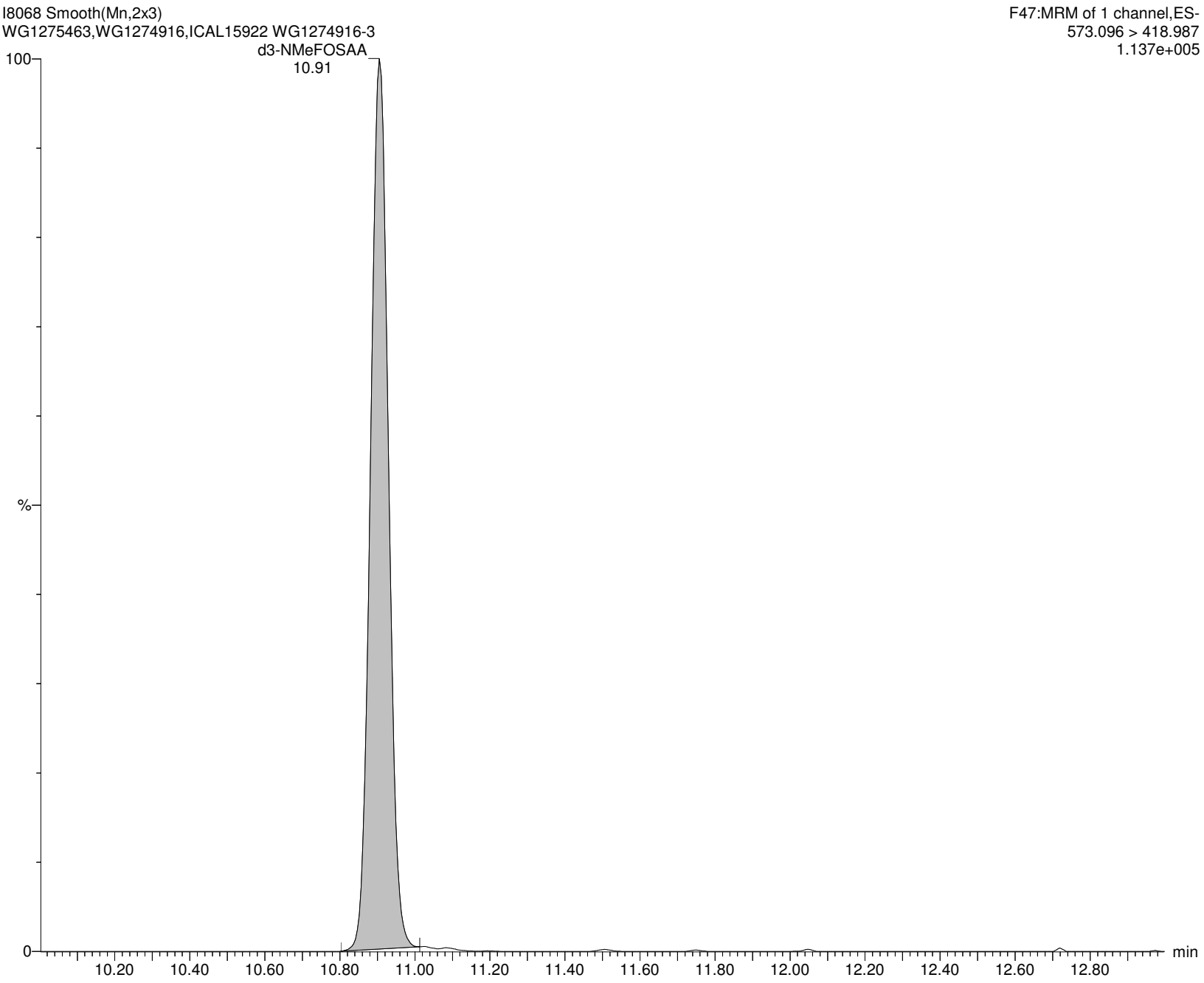


all concentration units in (ng/mL)

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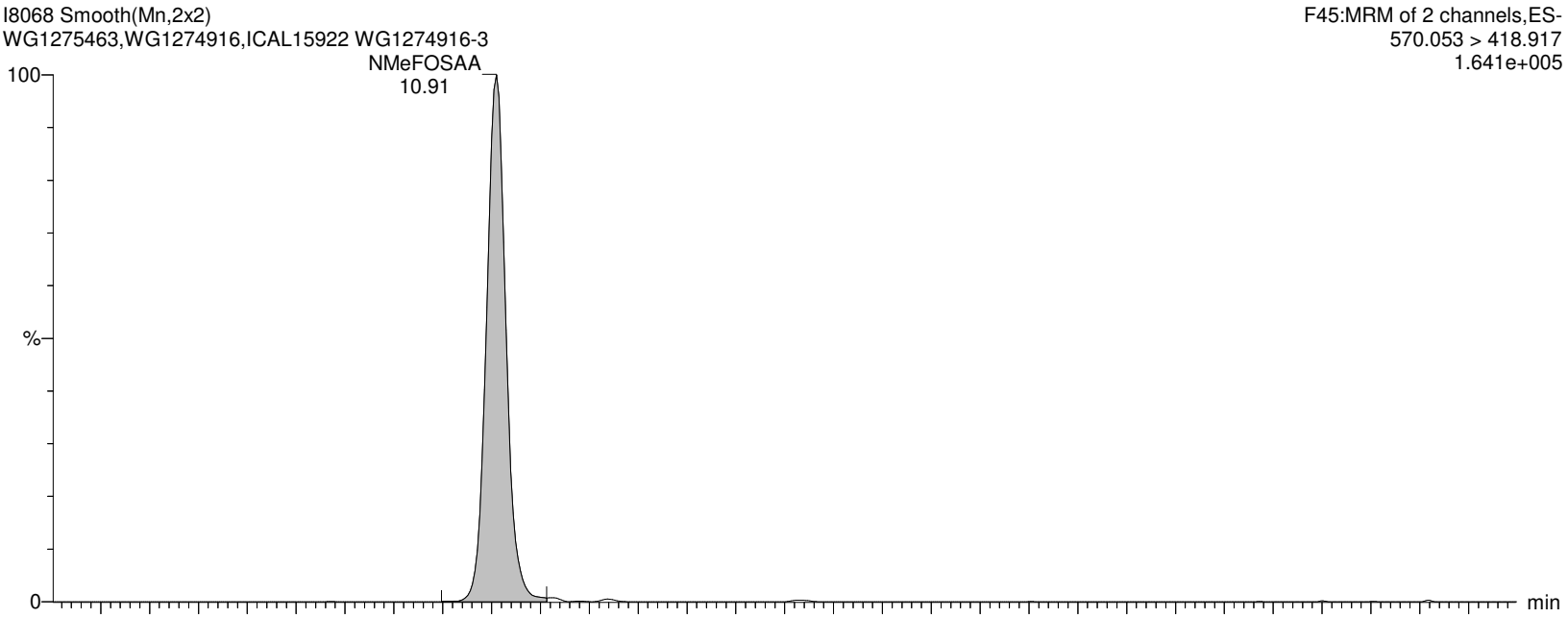


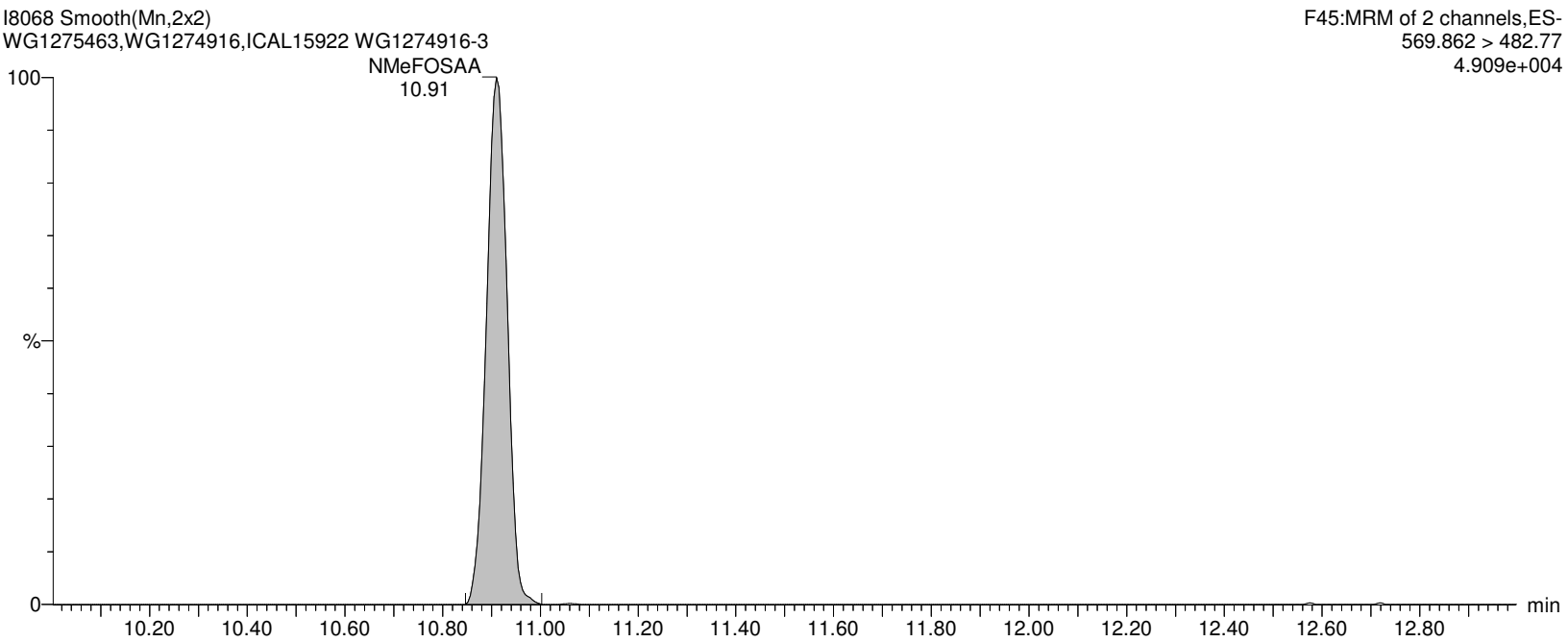
all concentration units in (ng/mL)

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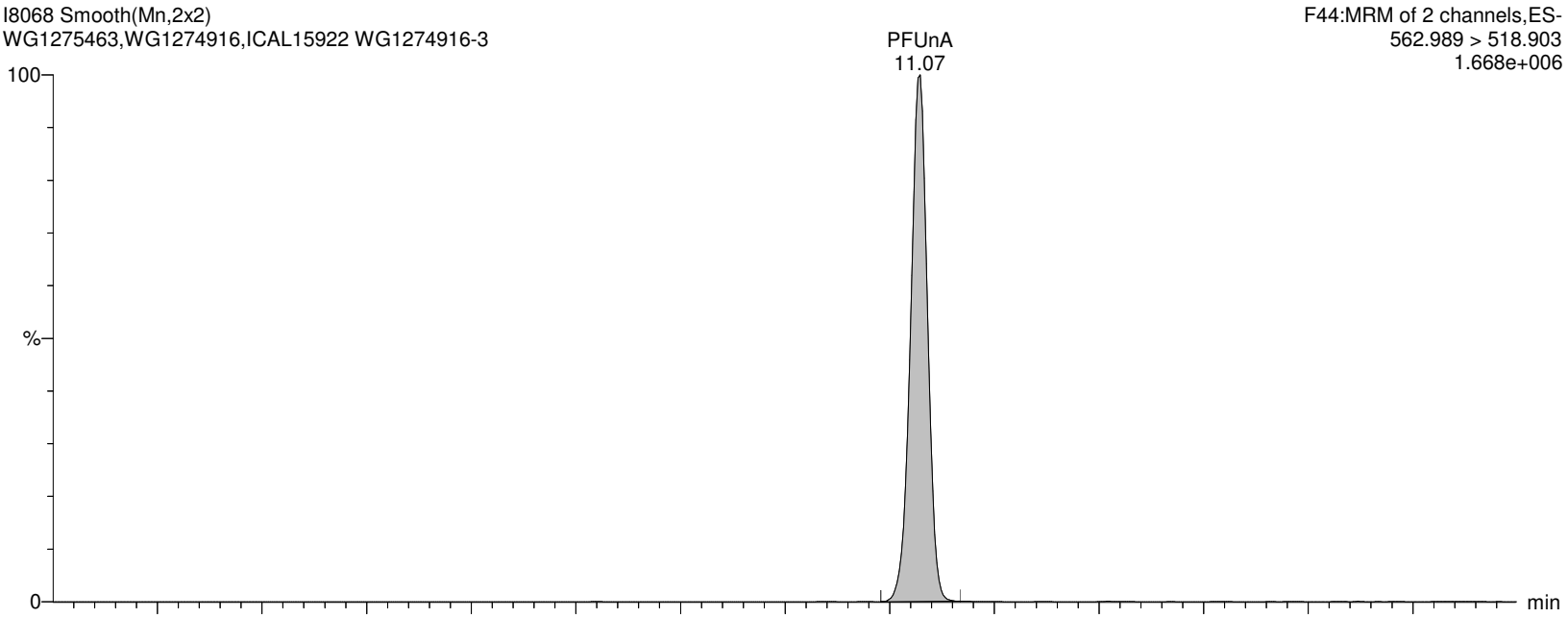


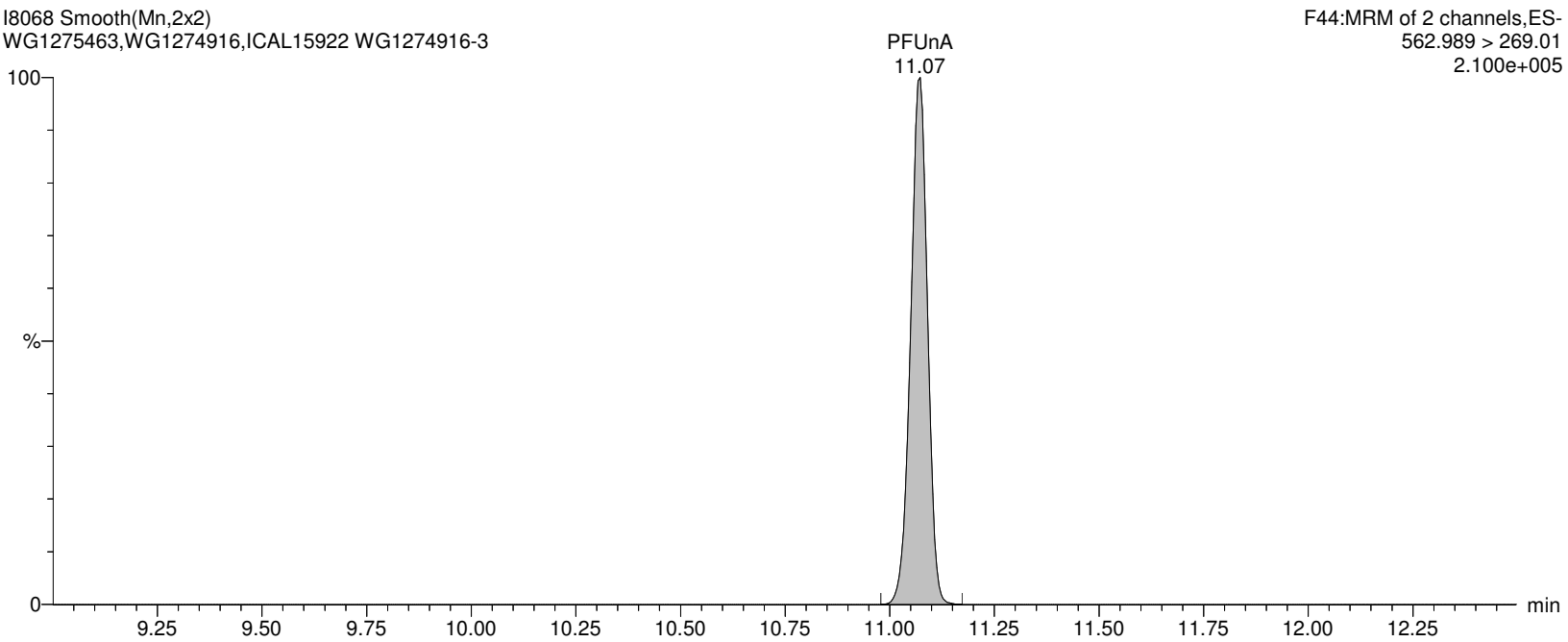
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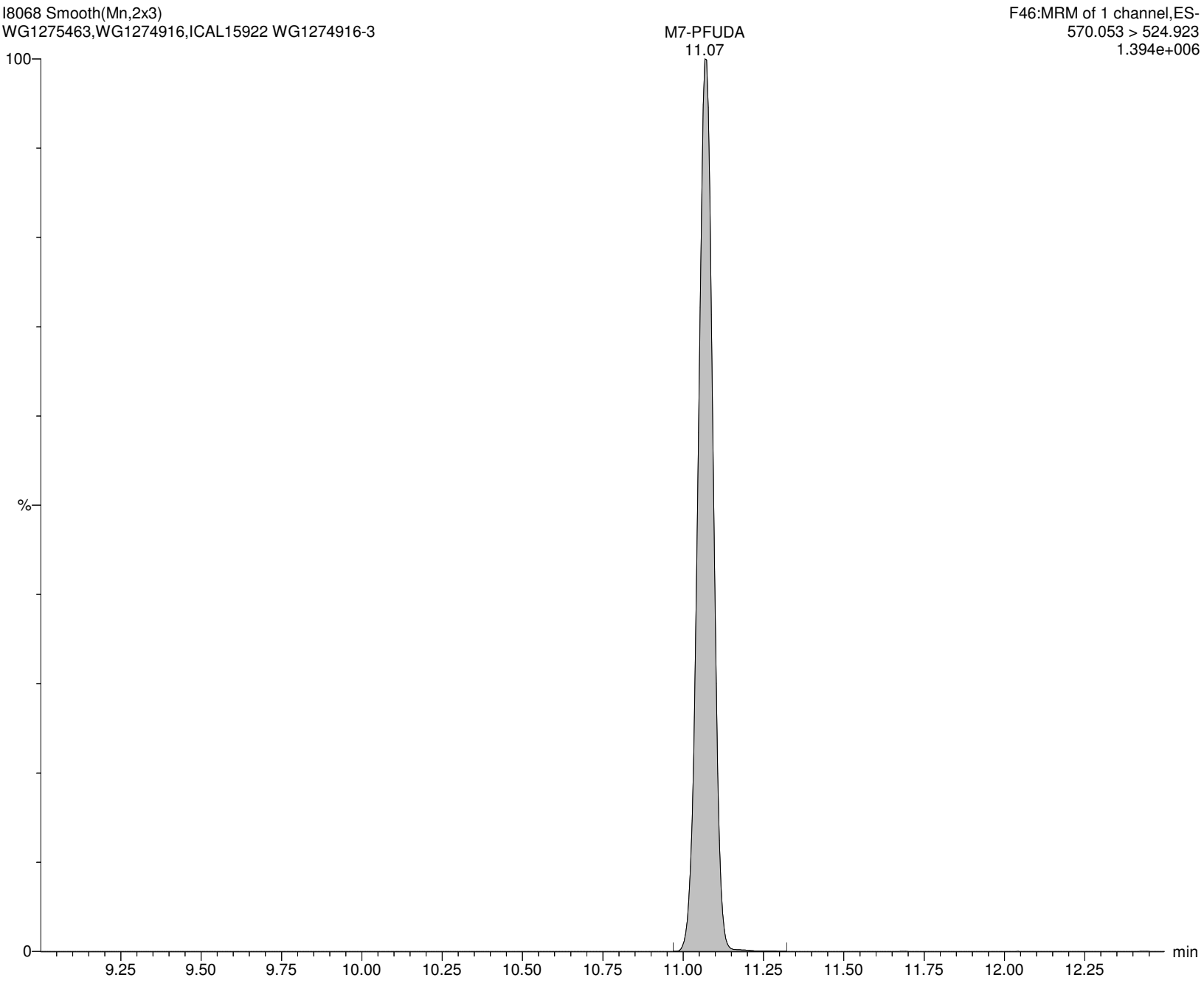


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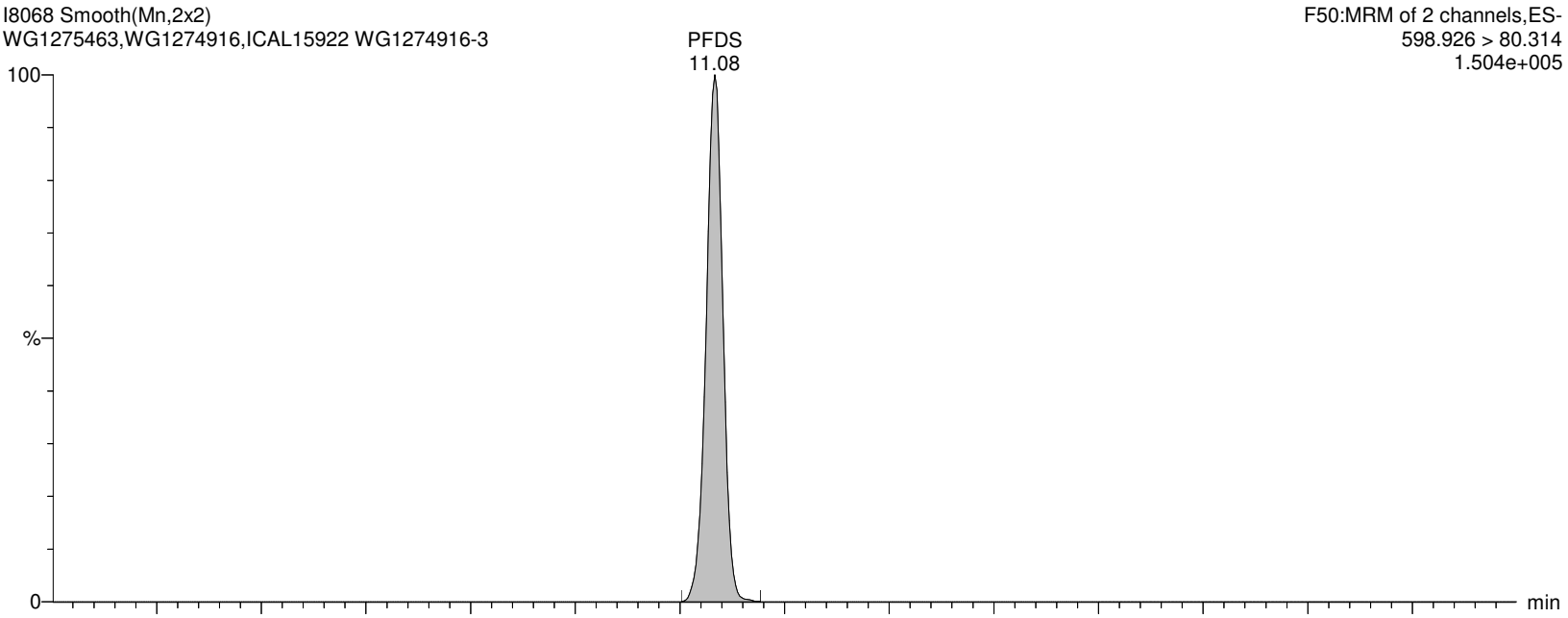


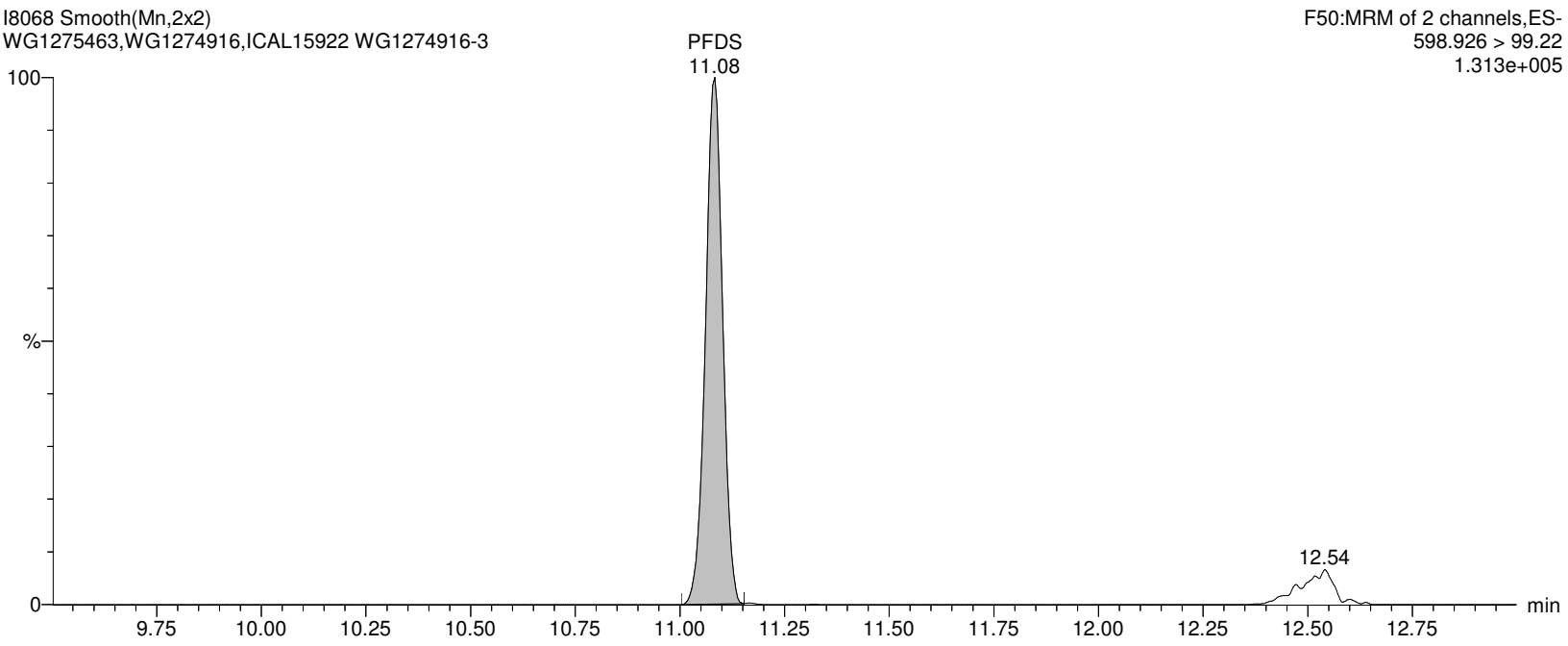
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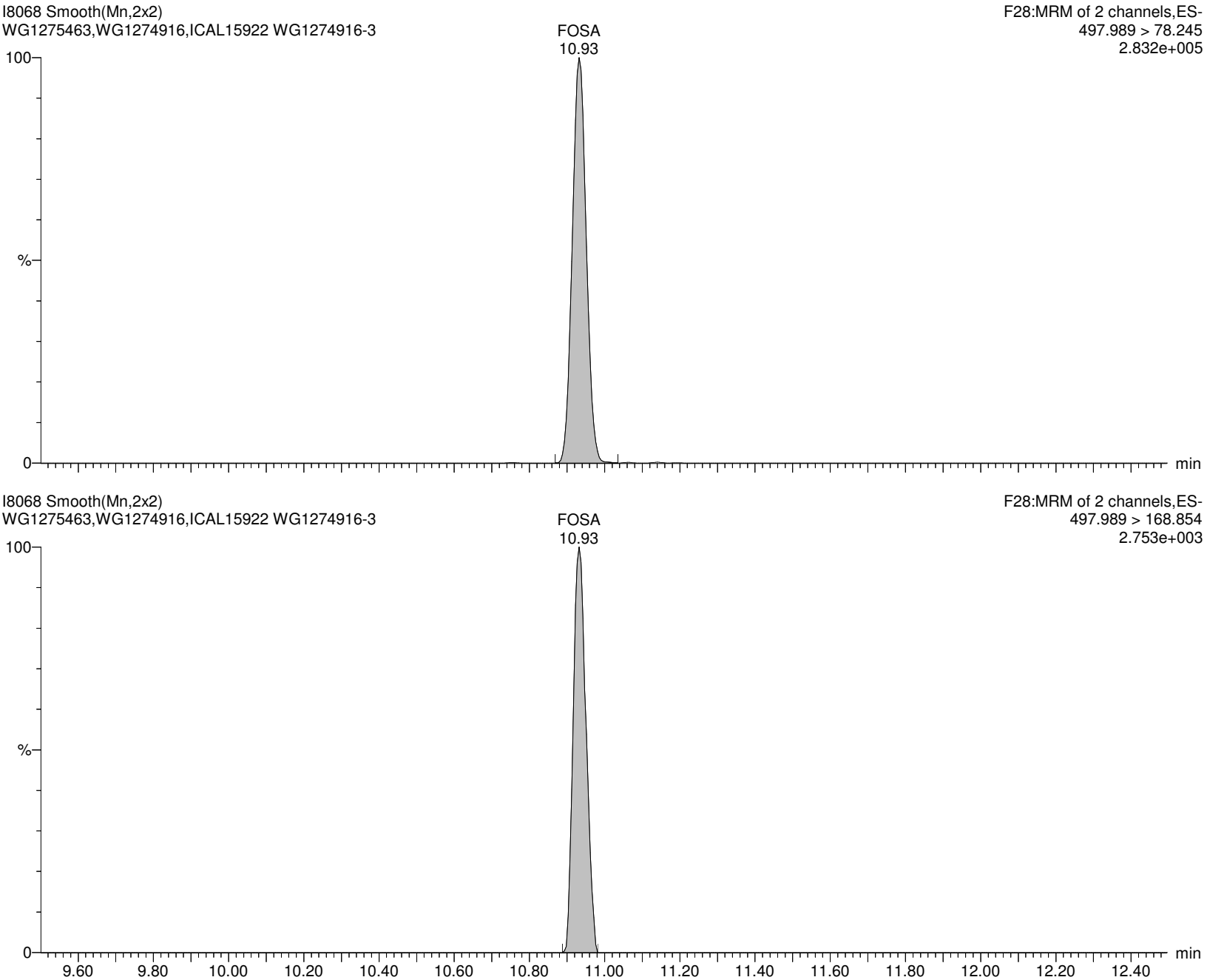


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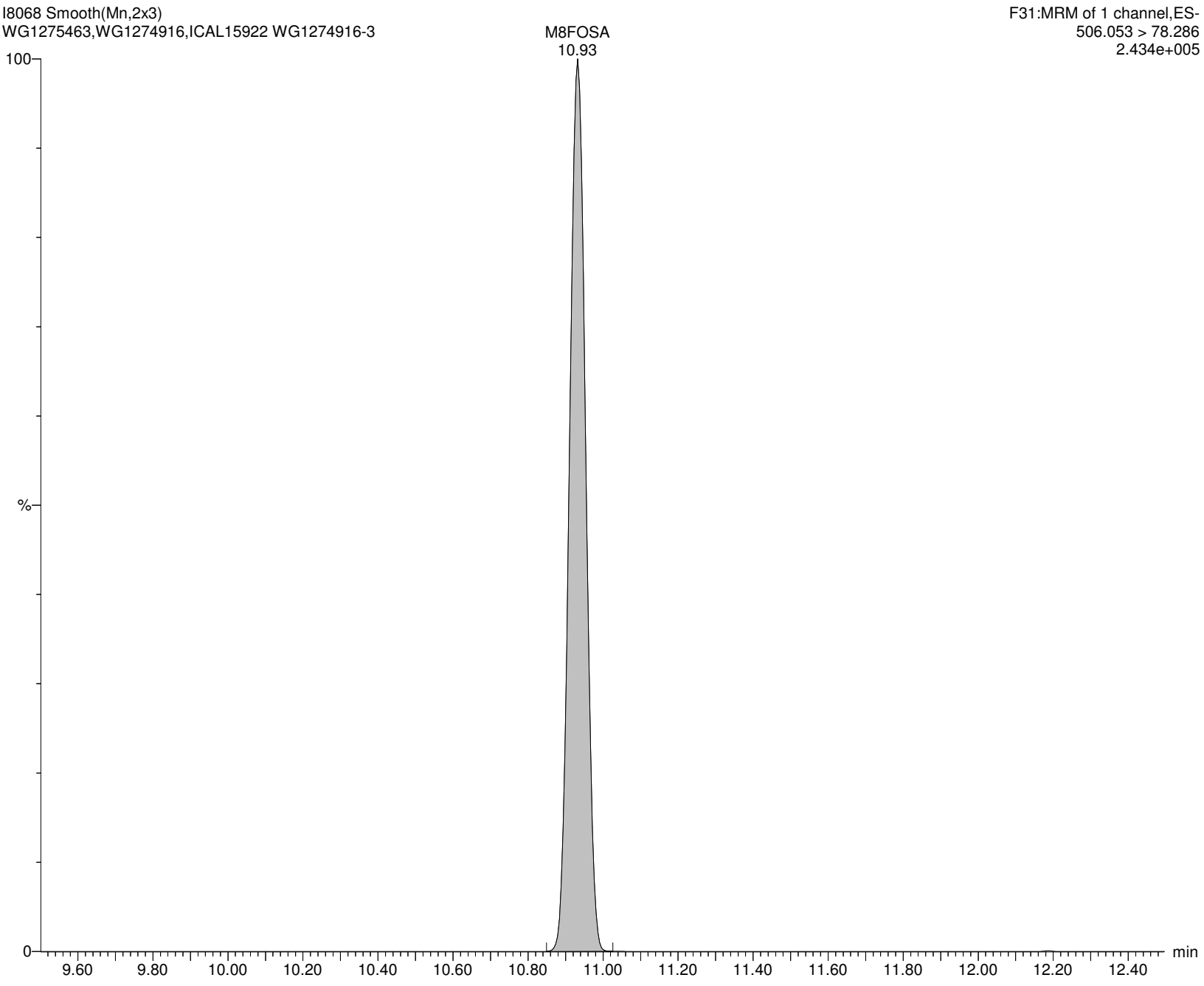


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
Last Altered: Thursday, August 22, 2019 13:45:42 Eastern Daylight Time
Printed: Thursday, August 22, 2019 13:49:30 Eastern Daylight Time

Name: I8068
ID: WG1274916-3
Date: 22-Aug-2019
Time: 12:17:16
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:B,8
Instrument: XEVO-TQSmicro#QEB0050
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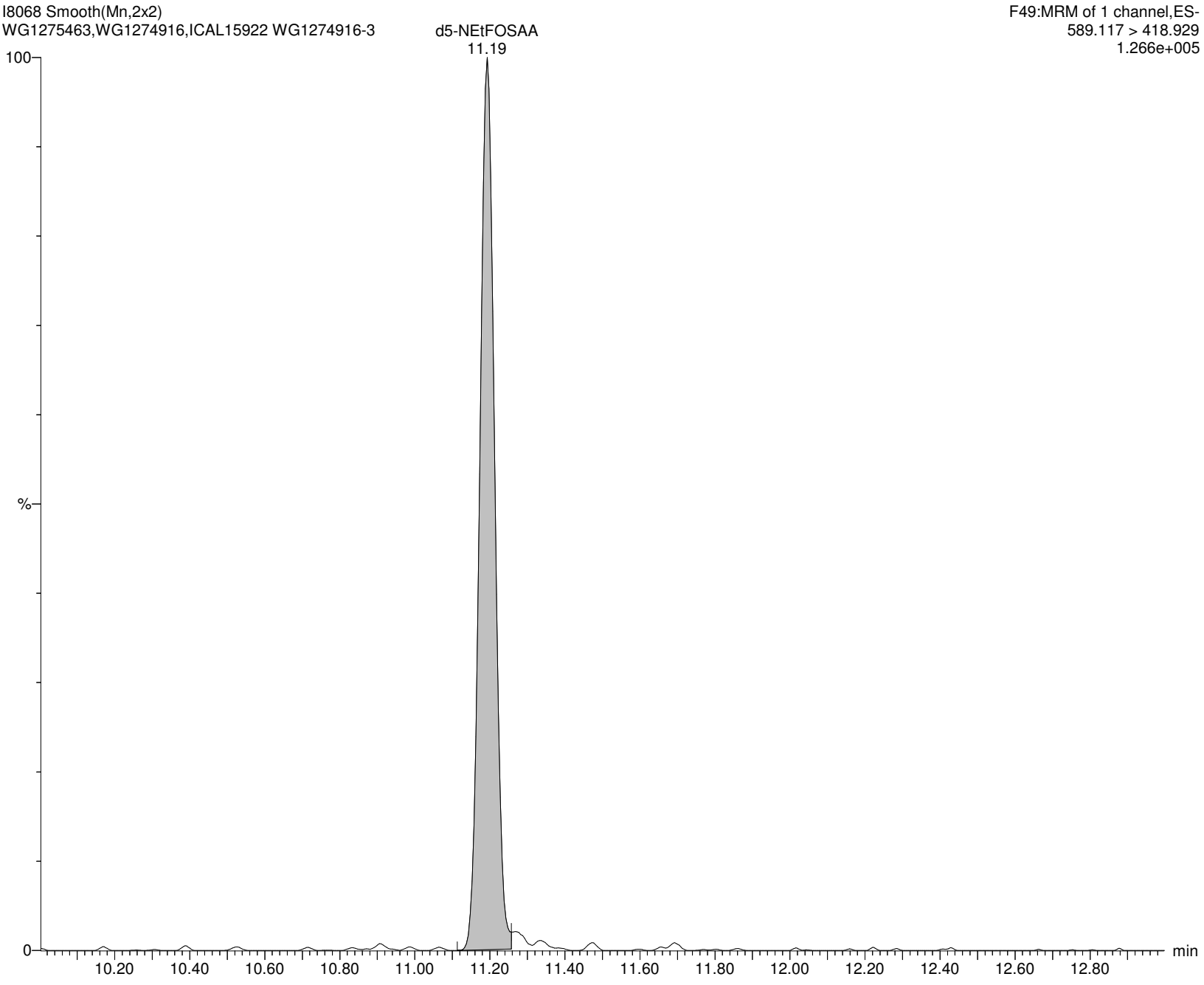


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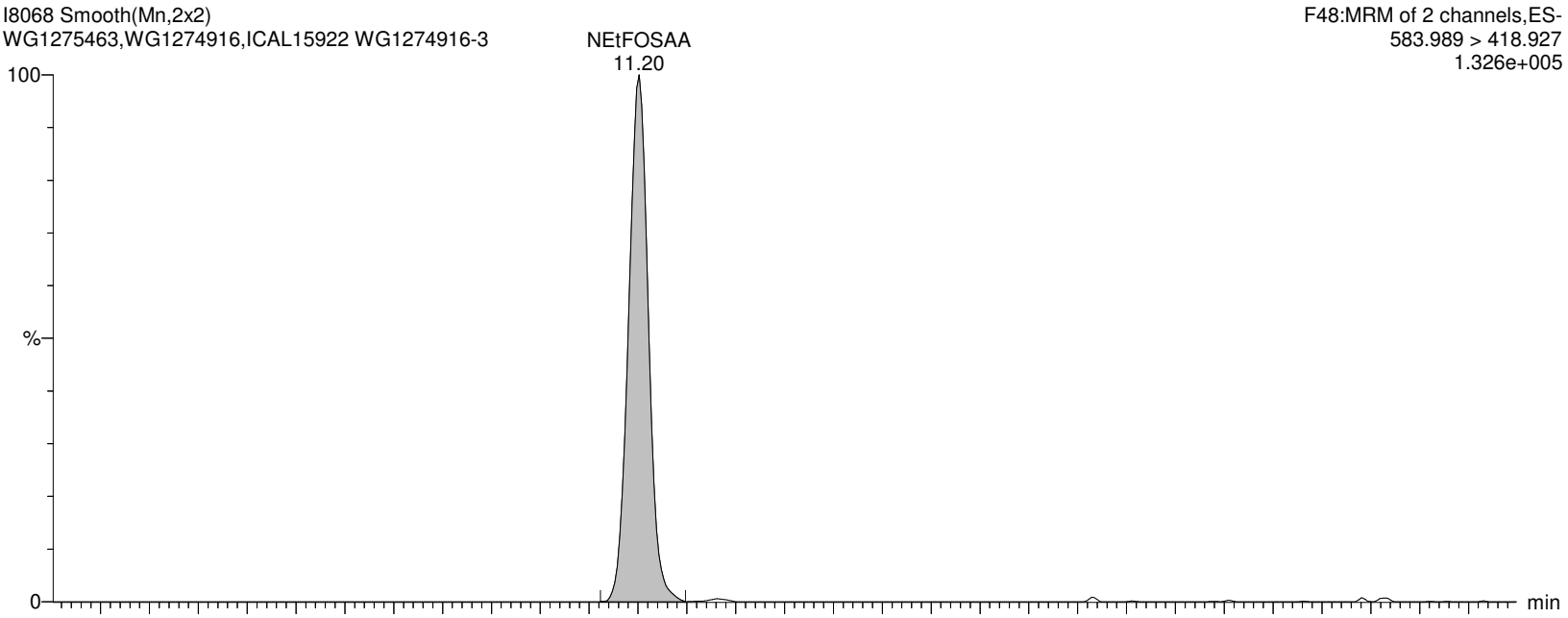


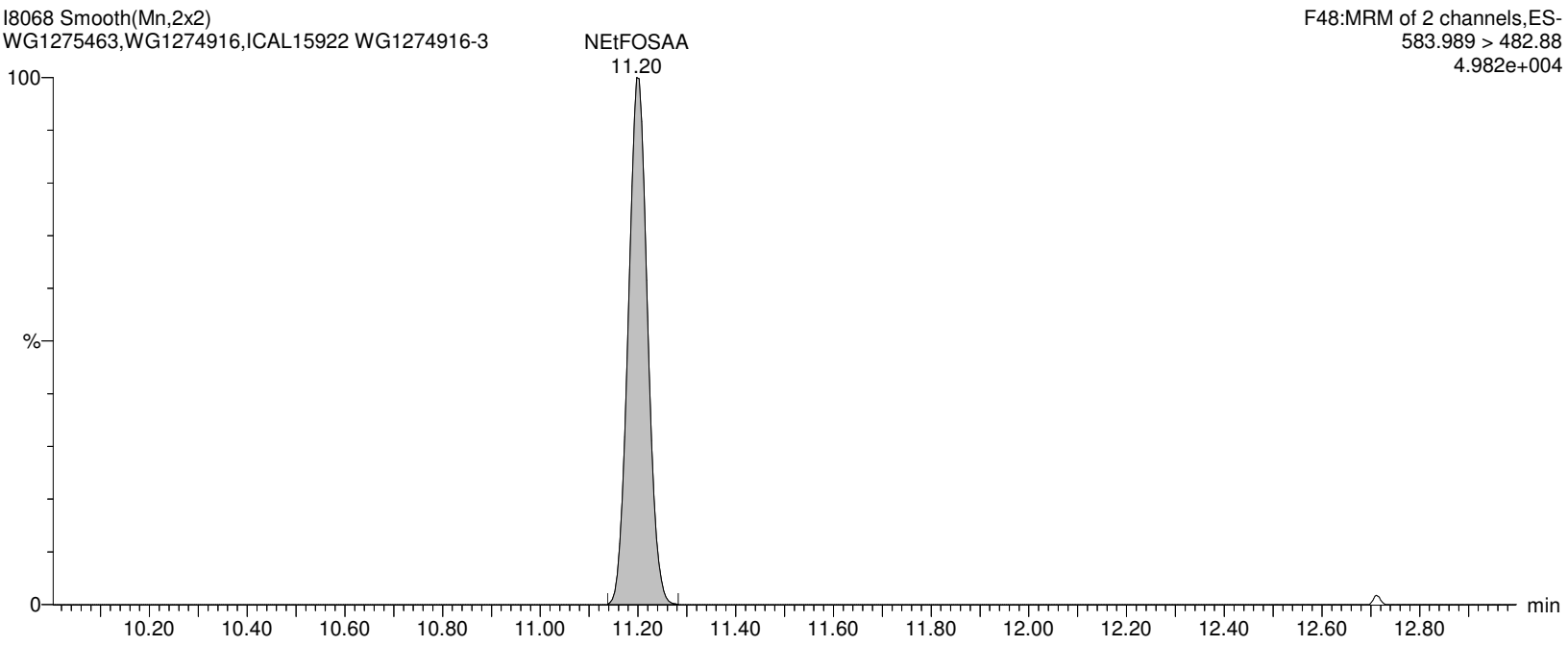
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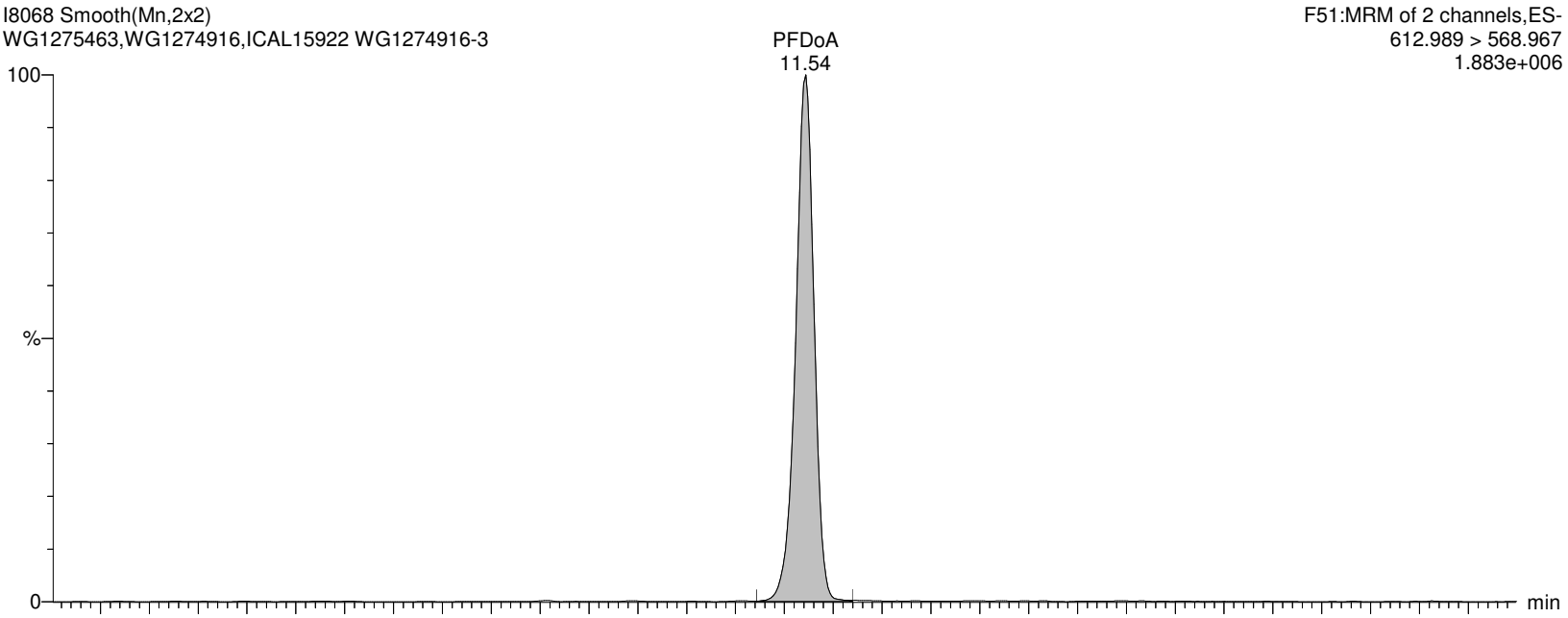


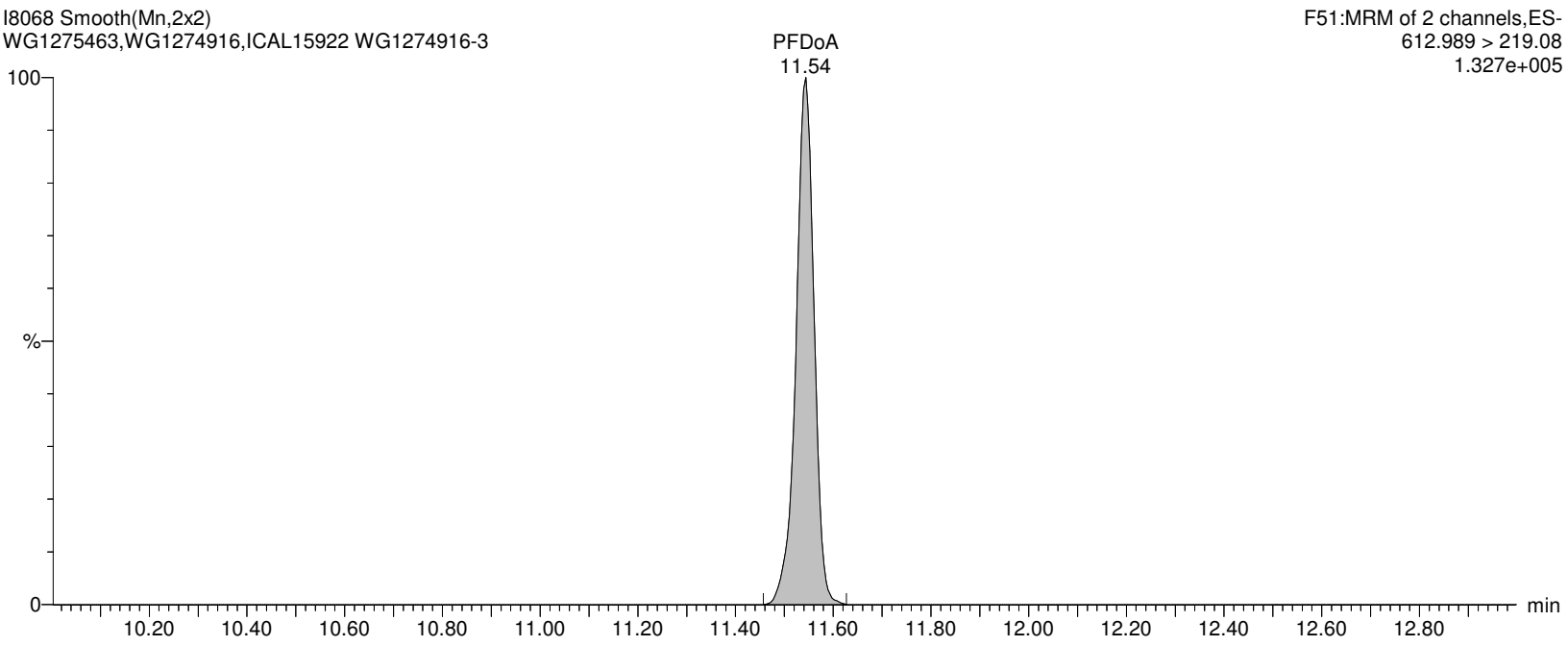
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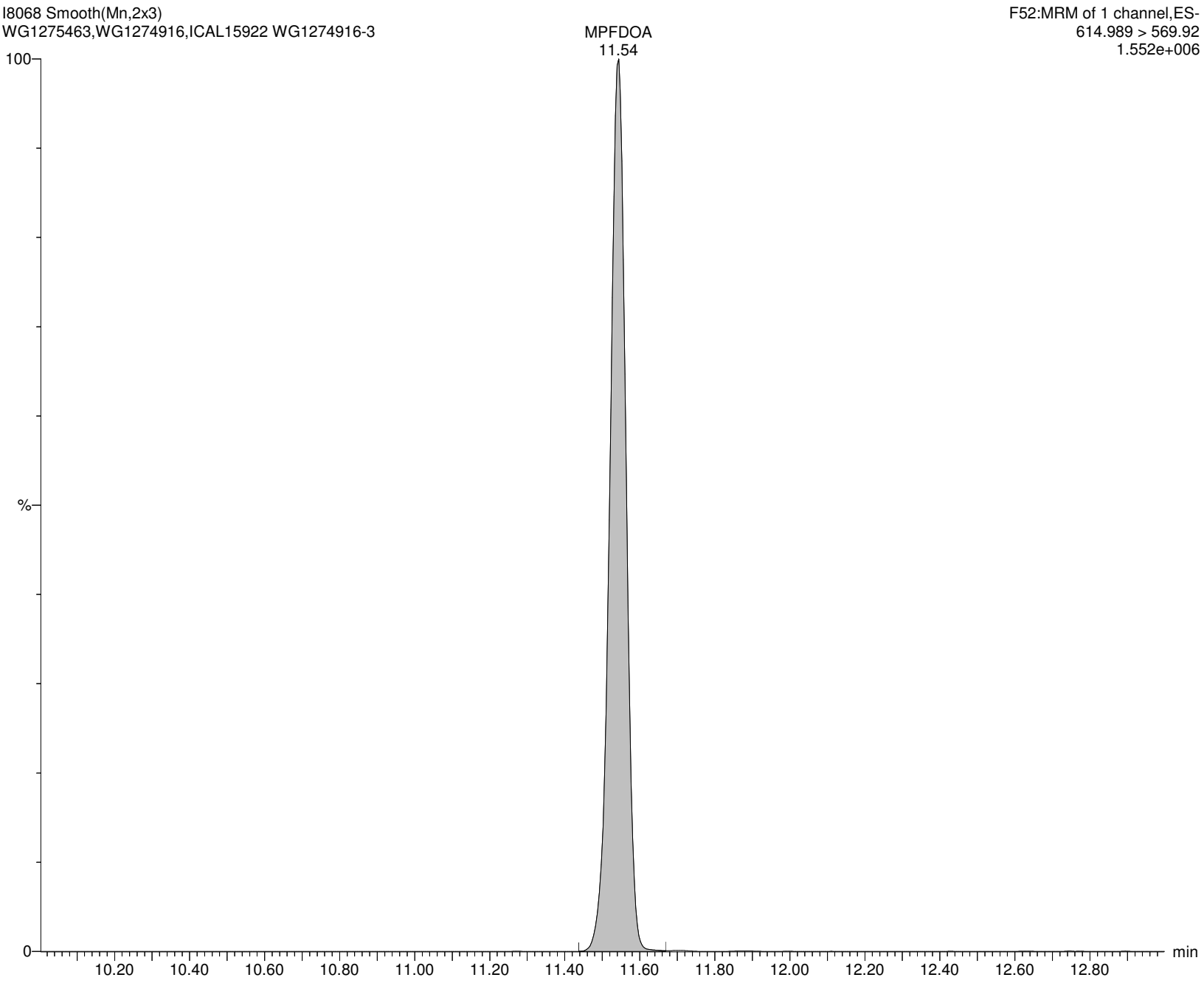


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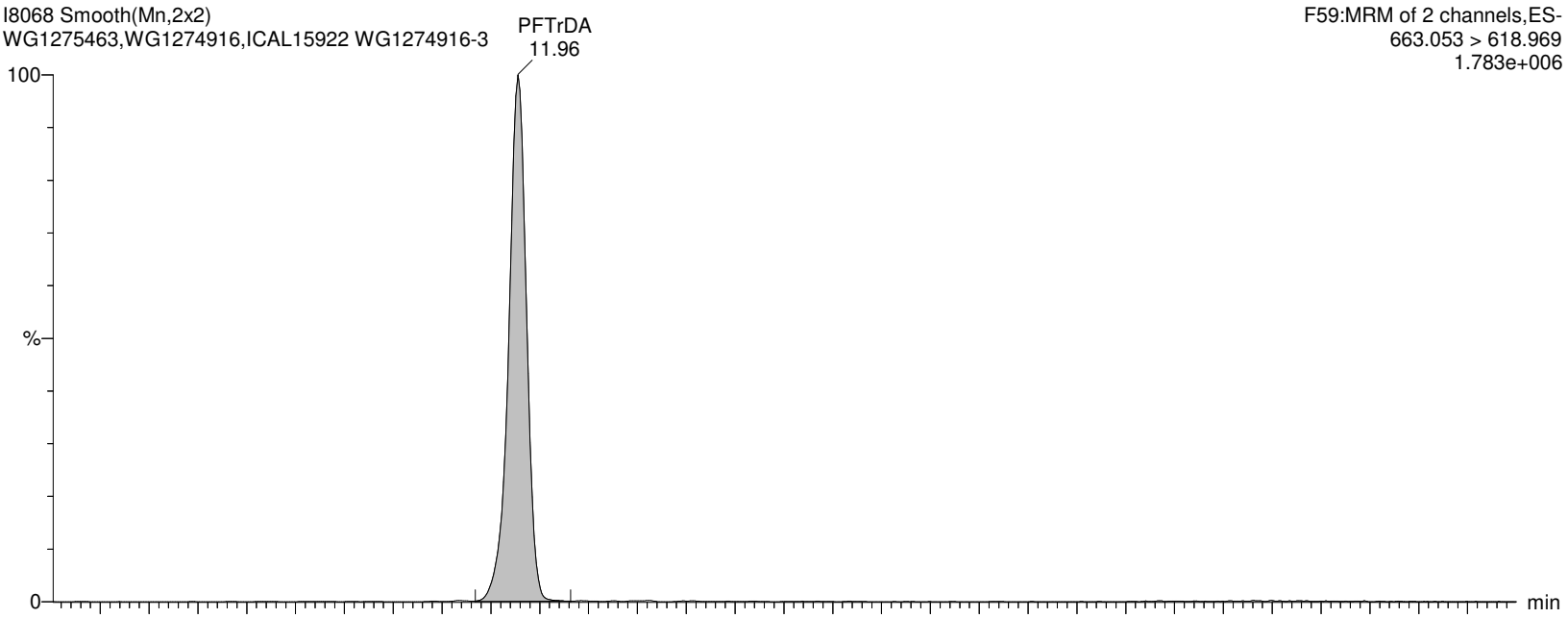


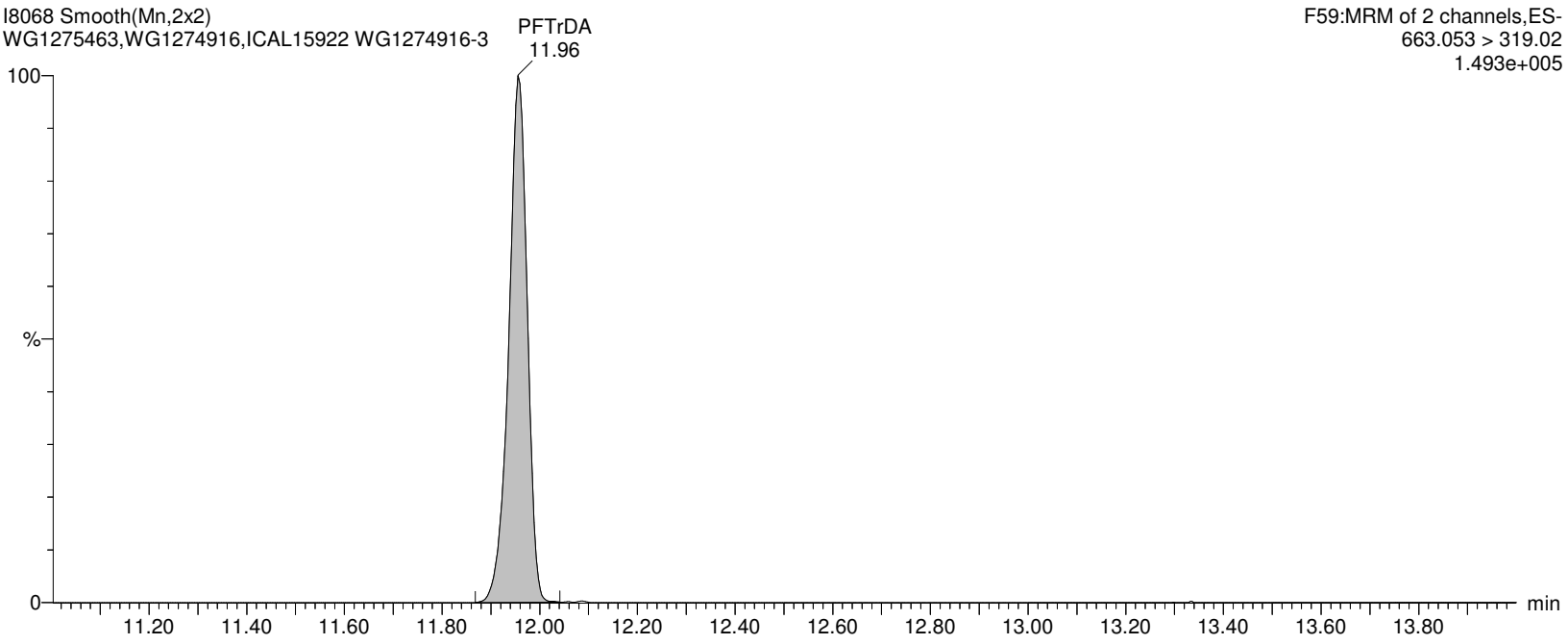
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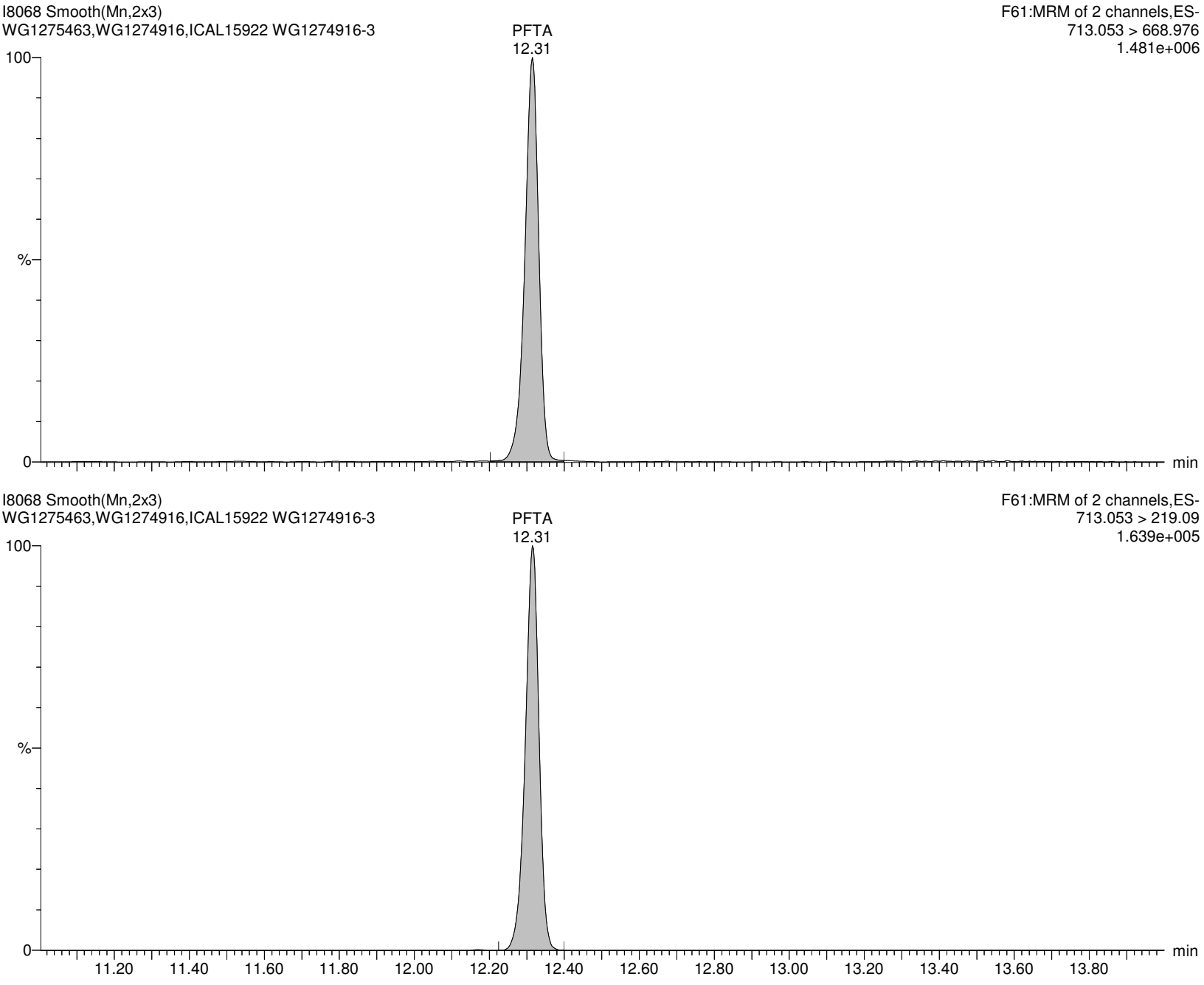


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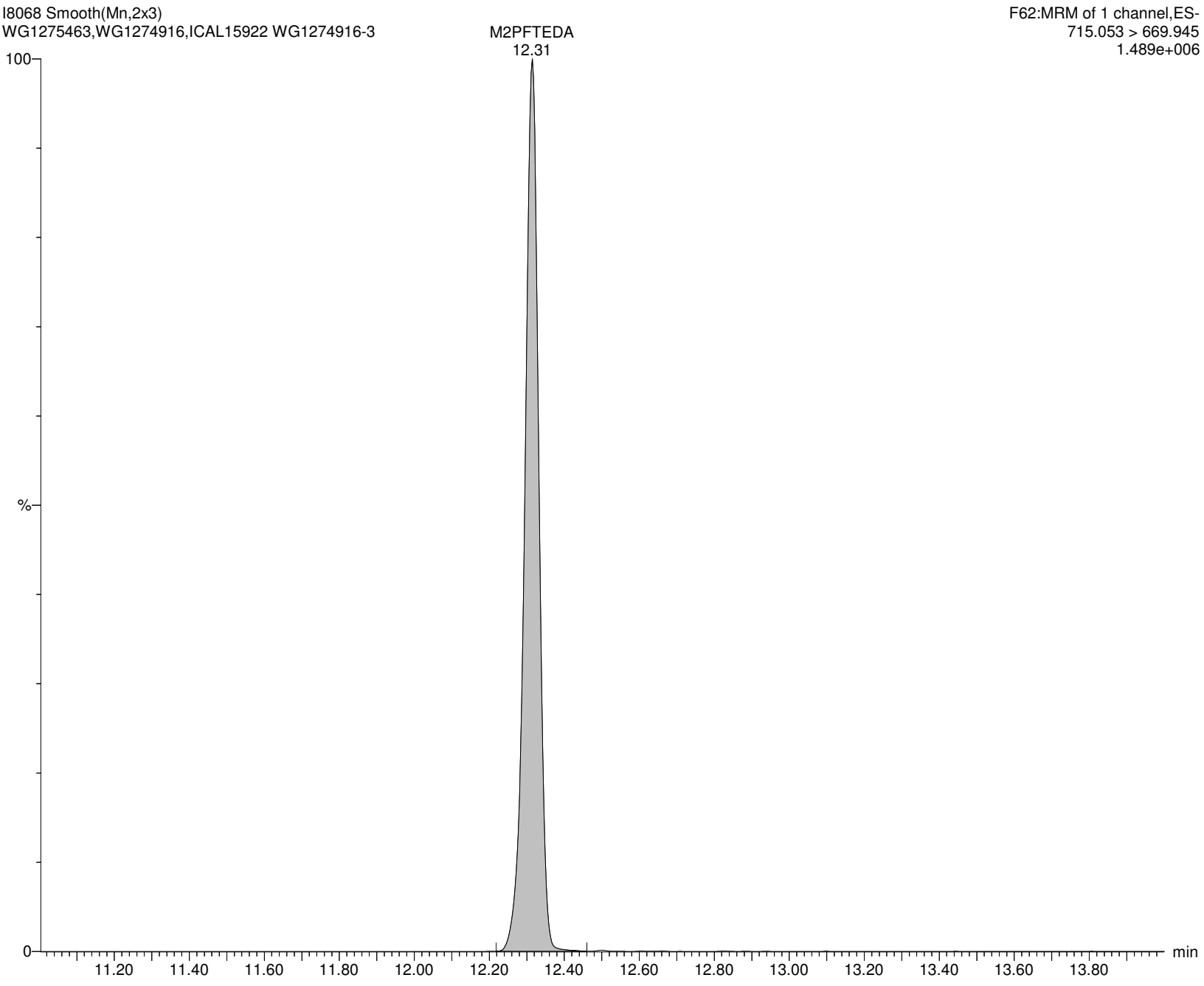


all concentration units in (ng/mL)

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MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

M2PFTEDA



all concentration units in (ng/mL)

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Printed: Thursday, August 22, 2019 13:49:31 Eastern Daylight Time

Method: C:\MassLynx\Data\2019\190822_537ISO.PRO\MethDB\537ISO_Q_190702_DODRT.mdb 07 Aug 2019 10:42:09
Calibration: C:\MassLynx\Data\2019\190822_537ISO.PRO\CurveDB\190702_ISO_ICAL.cdb 02 Jul 2019 11:07:37

ID: WG1274916-4
Name: I8069
Date: 22-Aug-2019
Time: 12:33:50
Description: WG1275463,WG1274916,ICAL15922
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.08	212.926 > 169.111	29936		11.416		na	
2	M3PFBA	INT STD	2.08	215.926 > 172.122	26638		6.887		na	68.9
3	MPFBA	INT STD	2.08	216.926 > 172.137	28818		9.647		na	96.5
4	PFPeA	2706-90-3	4.97	262.926 > 219.002	56235		9.903		na	
5	M5PFPEA	INT STD	4.97	267.989 > 223.081	55340		13.088		na	130.9
6	PFBS	375-73-5	5.63	298.926 > 79.923	12926		8.096	1.89	YES	
7	M3PFBS	INT STD	5.63	301.989 > 80.254	10730		9.276		na	92.8
8	4:2FTS	757124-72-4	6.82	326.926 > 306.957	6557		10.365	2.09	NO	
9	M2-4:2FTS	INT STD	6.81	329.117 > 309.079	6257		9.028		na	90.3
10	PFHxA	307-24-4	6.89	312.989 > 269.028	78469		10.996	18.60	NO	
11	M5PFHxA	INT STD	6.89	317.989 > 273.045	72191		8.420		na	84.2
12	PFPeS	2706-91-4	7.22	348.926 > 80.251	11142		9.064	1.93	NO	
13	PFHpA	375-85-9	8.19	362.926 > 319.014	102892		10.800	5.60	NO	
14	M4PFHpA	INT STD	8.19	366.926 > 321.979	95554		8.748		na	87.5
15	br-PFHxS	355-46-4	8.11	398.926 > 80.295	1660	M5	2.463	3.00	NO	
16	L-PFHxS	355-46-4	8.35	398.926 > 80.295	7791		8.340	1.32	YES	
17	PFHxS	355-46-4		398.926 > 80.295	9451		10.803		na	
18	M3PFHxS	INT STD	8.35	401.926 > 80.317	6897		9.620		na	96.2
19	br-PFOA	335-67-1	8.92	412.989 > 368.9	5175	M5	0.545	47.47	YES	
20	L-PFOA	335-67-1	9.14	412.989 > 368.9	124435		13.113	9.08	NO	
21	M2PFOA	INT STD	9.14	415.032 > 369.968	101695		11.154		na	111.5
22	PFOA	335-67-1		412.989 > 368.9	129610		13.658		na	
23	M8PFOA	INT STD	9.14	420.989 > 375.979	95606		9.462		na	94.6
24	6:2FTS	27619-97-2	9.10	426.989 > 406.921	2951		11.356	8.27	NO	
25	M2-6:2FTS	INT STD	9.10	428.989 > 408.917	3320		5.316		na	53.2
26	PFHpS	375-92-8	9.24	448.926 > 80.257	6029		9.195	0.90	NO	
27	PFNA	375-95-1	9.90	462.989 > 418.931	85050		10.276	4.23	NO	
28	M9PFNA	INT STD	9.90	472.053 > 426.947	91226		9.750		na	97.5
29	br-PFOS	1763-23-1	9.69	498.989 > 80.294	3235	M5	3.157	19.95	NO	
30	L-PFOS	1763-23-1	9.96	498.989 > 80.294	7443		7.900	1.62	NO	
31	PFOS	1763-23-1		498.989 > 80.294	10678		11.057		na	
32	M4PFOS	INT STD	9.96	503.032 > 80.306	8691		11.685		na	116.9
33	M8PFOS	INT STD	9.96	507.053 > 80.294	9140		9.765		na	97.7
34	PFDA	335-76-2	10.53	513.053 > 468.906	72995		10.484	6.08	NO	
35	M2PFDA	INT STD	10.53	515.053 > 469.934	76251		10.661		na	106.6
36	M6PFDA	INT STD	10.53	519.053 > 473.931	77004		9.032		na	90.3
37	8:2FTS	39108-34-4	10.52	526.926 > 506.818	1391		8.862		na	
38	M2-8:2FTS	INT STD	10.52	529.053 > 508.945	1486		4.334		na	43.3
39	PFNS	68259-12-1	10.56	548.989 > 80.249	7478		8.238	1.27	NO	

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	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.90	573.096 > 418.987	4838		5.719		na	57.2
41	NMeFOSAA	2355-31-9	10.91	570.053 > 418.917	5990		12.188	3.01	NO	
42	PFUnA	2058-94-8	11.07	562.989 > 518.903	68865		10.492	7.72	NO	
43	M7-PFUDA	INT STD	11.07	570.053 > 524.923	63918		8.478		na	84.8
44	PFDS	335-77-3	11.08	598.926 > 80.314	5413		8.039	1.15	YES	
45	FOSA	754-91-6	10.93	497.989 > 78.245	4252		8.363		YES	
46	M8FOSA	INT STD	10.93	506.053 > 78.286	4427		1.745		na	17.4
47	d5-NEtFOSAA	INT STD	11.19	589.117 > 418.929	4883		6.369		na	63.7
48	NEtFOSAA	2991-50-6	11.20	583.989 > 418.927	4320		8.749	2.89	NO	
49	PFDoA	307-55-1	11.54	612.989 > 568.967	70524		10.615	14.21	NO	
50	MPFDOA	INT STD	11.54	614.989 > 569.92	69231		8.294		na	82.9
51	PFTrDA	72629-94-8	11.95	663.053 > 618.969	68449		10.972	12.57	NO	
52	PFTA	376-06-7	12.31	713.053 > 668.976	57934		11.309	9.28	NO	
53	M2PFTEDA	INT STD	12.31	715.053 > 669.945	58902		8.352		na	83.5

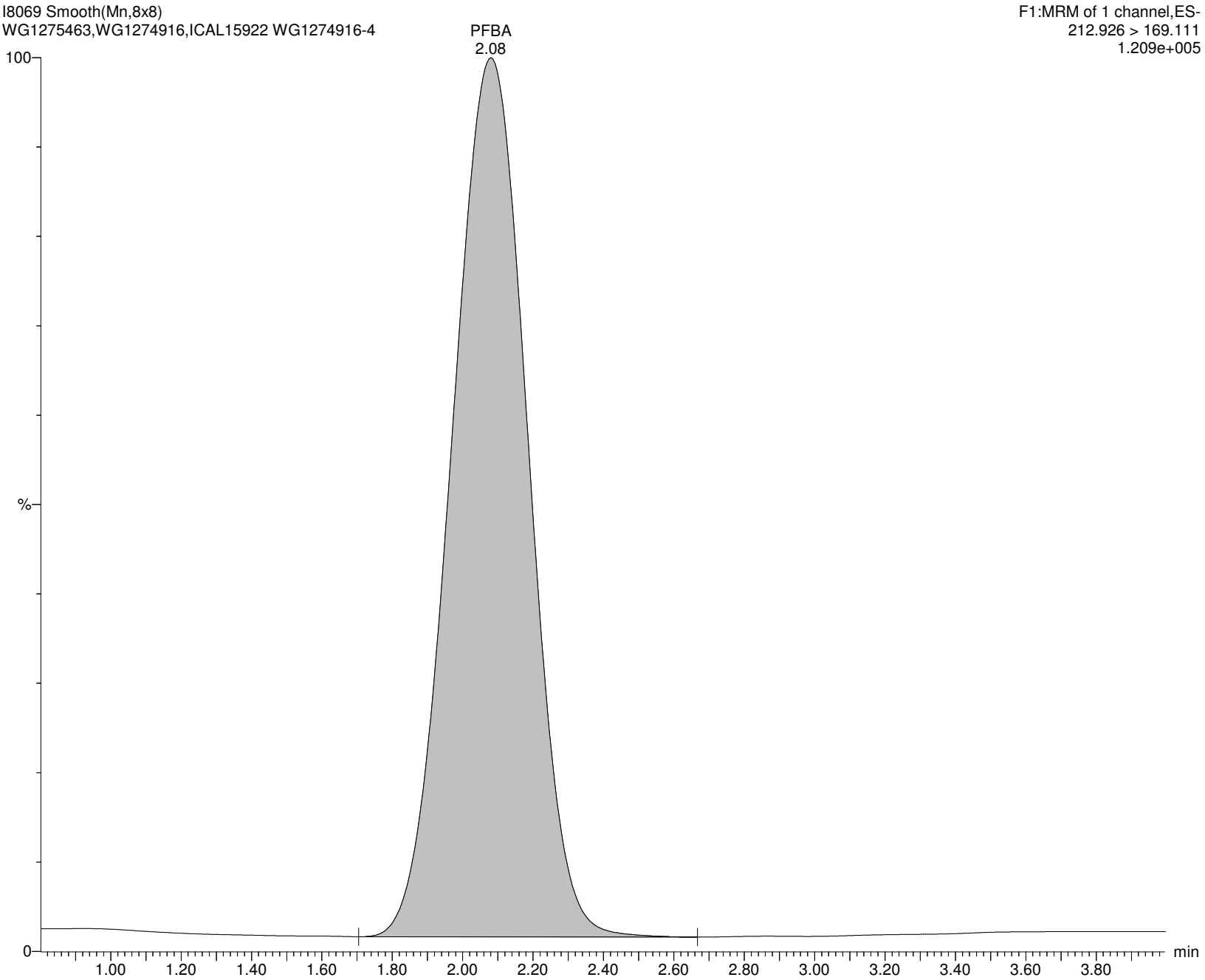
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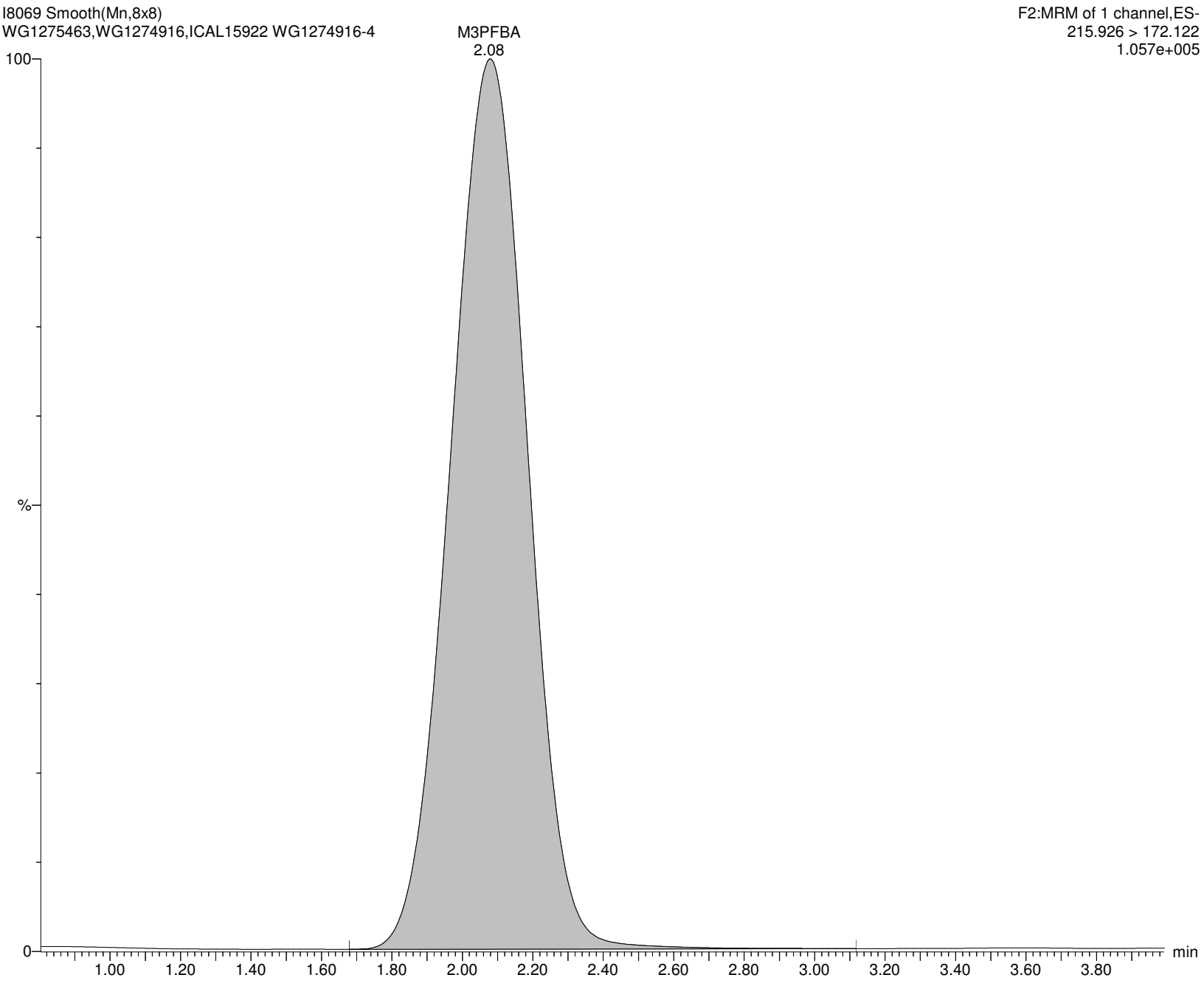


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M3PFBA

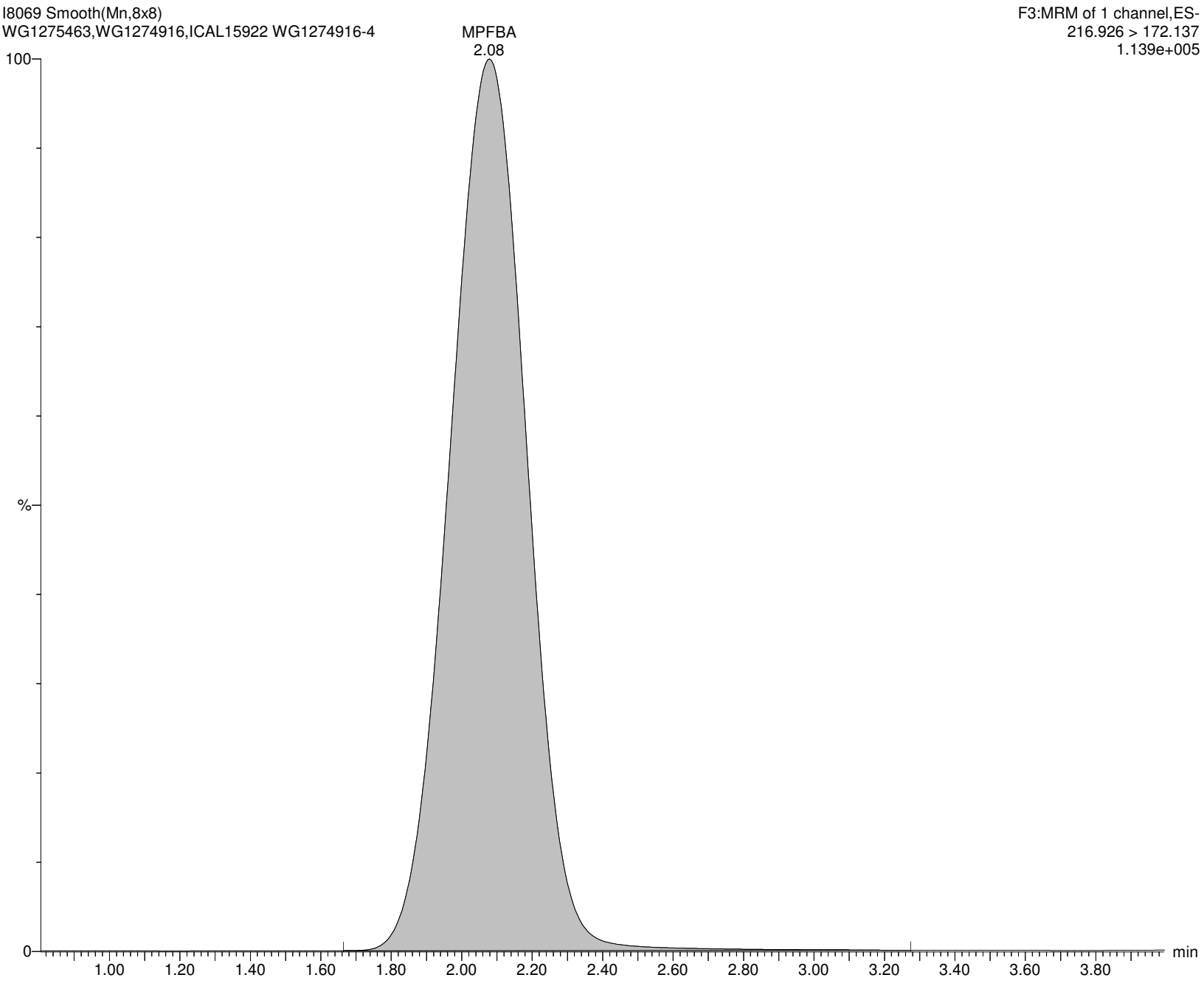


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
Last Altered: Thursday, August 22, 2019 13:45:42 Eastern Daylight Time
Printed: Thursday, August 22, 2019 13:49:31 Eastern Daylight Time

Name: I8069
ID: WG1274916-4
Date: 22-Aug-2019
Time: 12:33:50
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:C,1
Instrument: XEVO-TQSmicro#QEB0050
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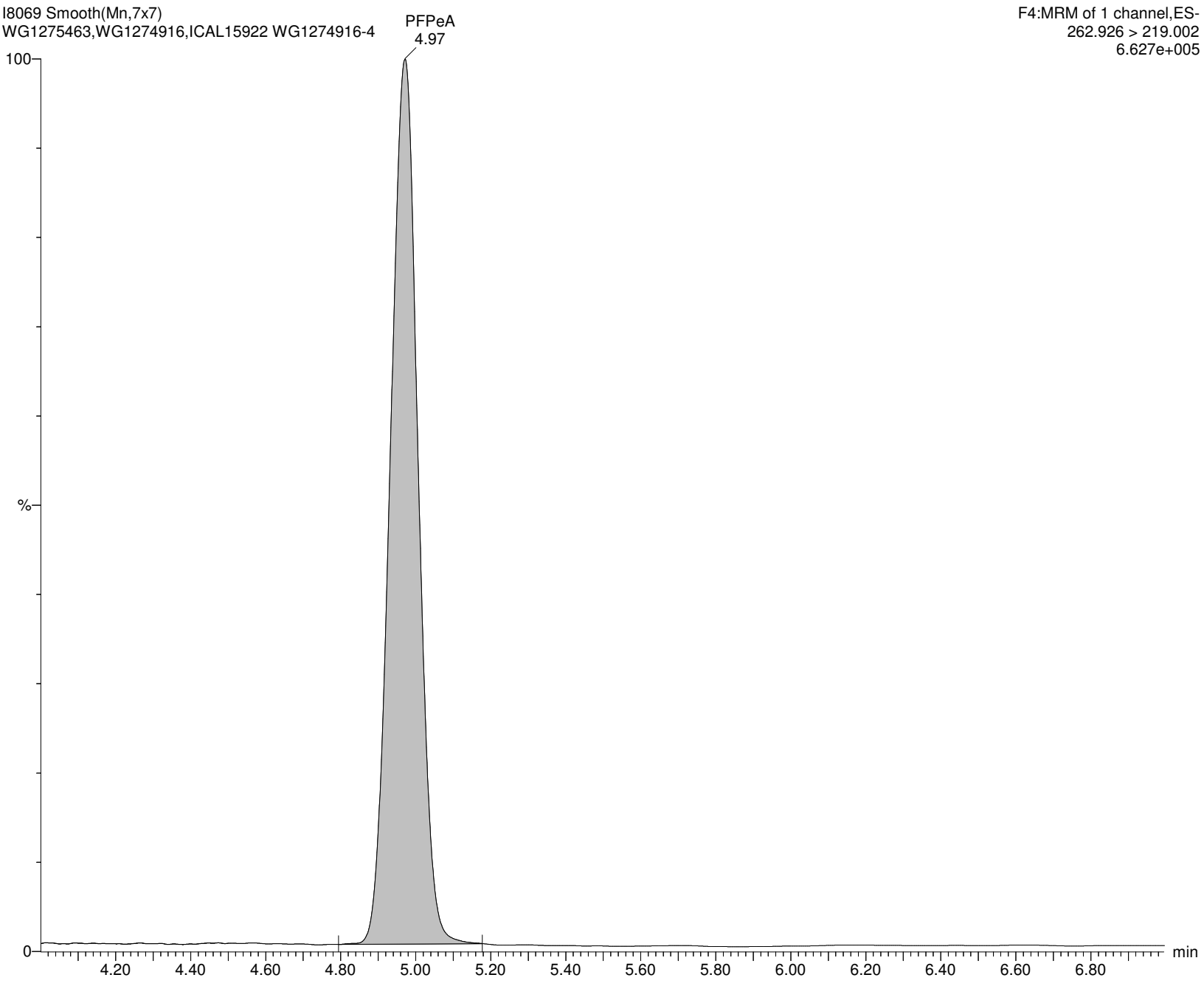


all concentration units in (ng/mL)

Alpha Analytical Inc.
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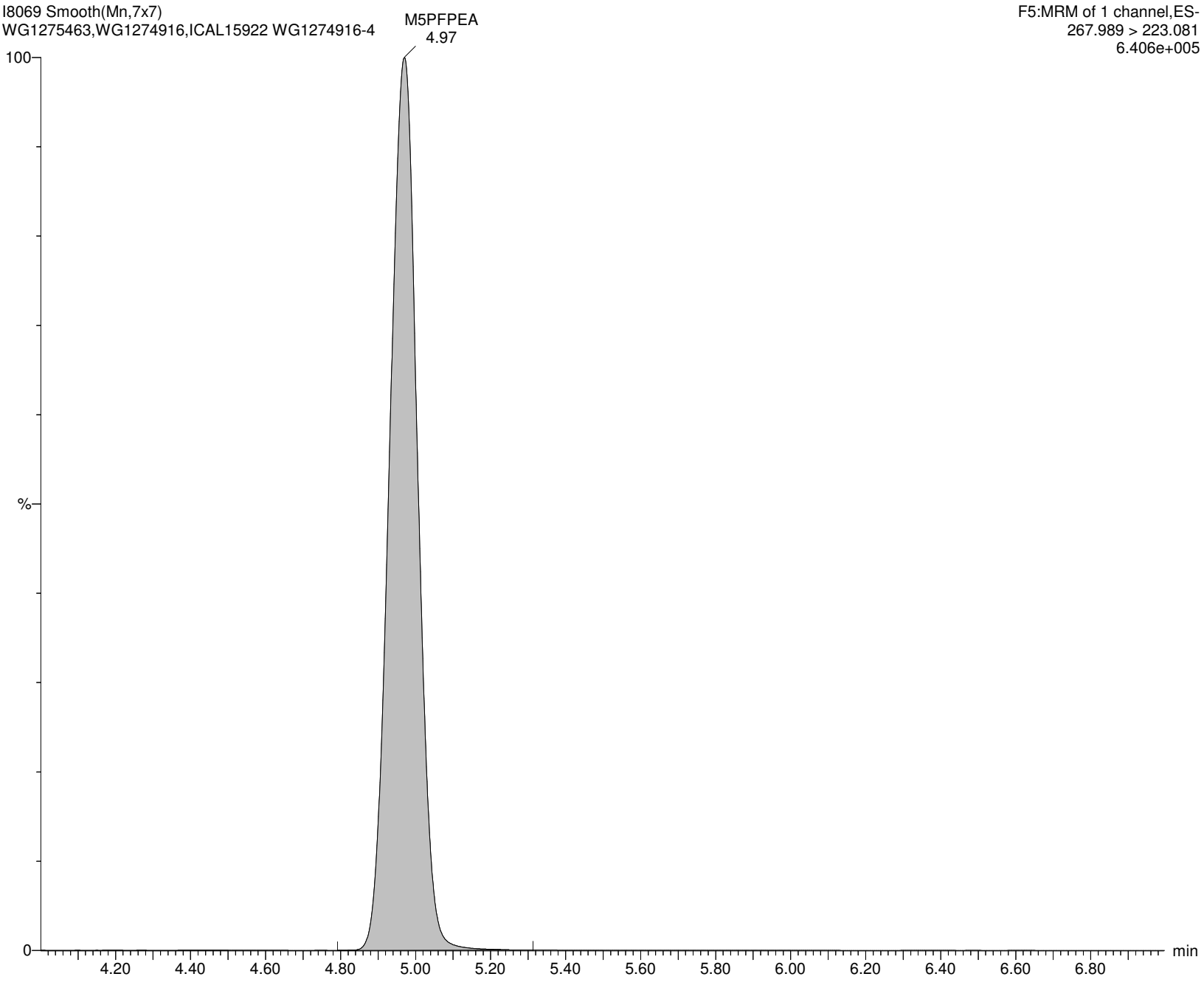


all concentration units in (ng/mL)

Alpha Analytical Inc.
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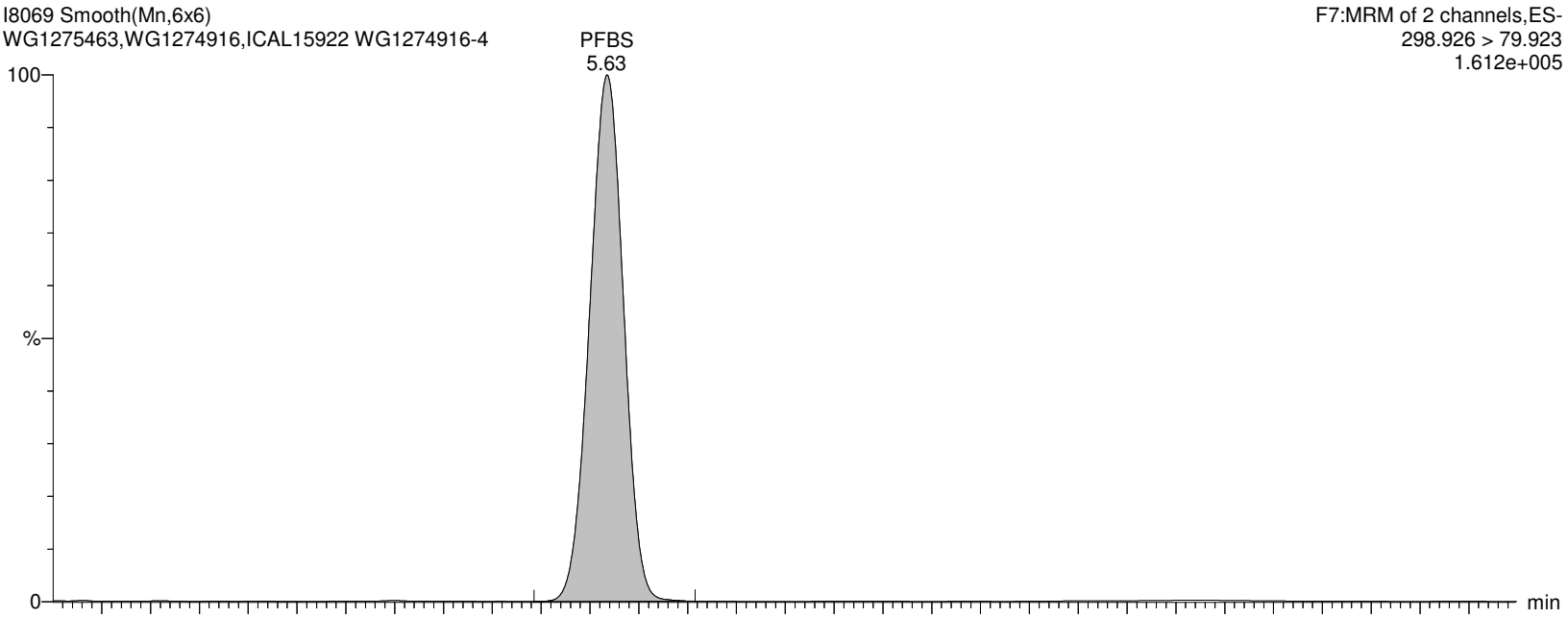


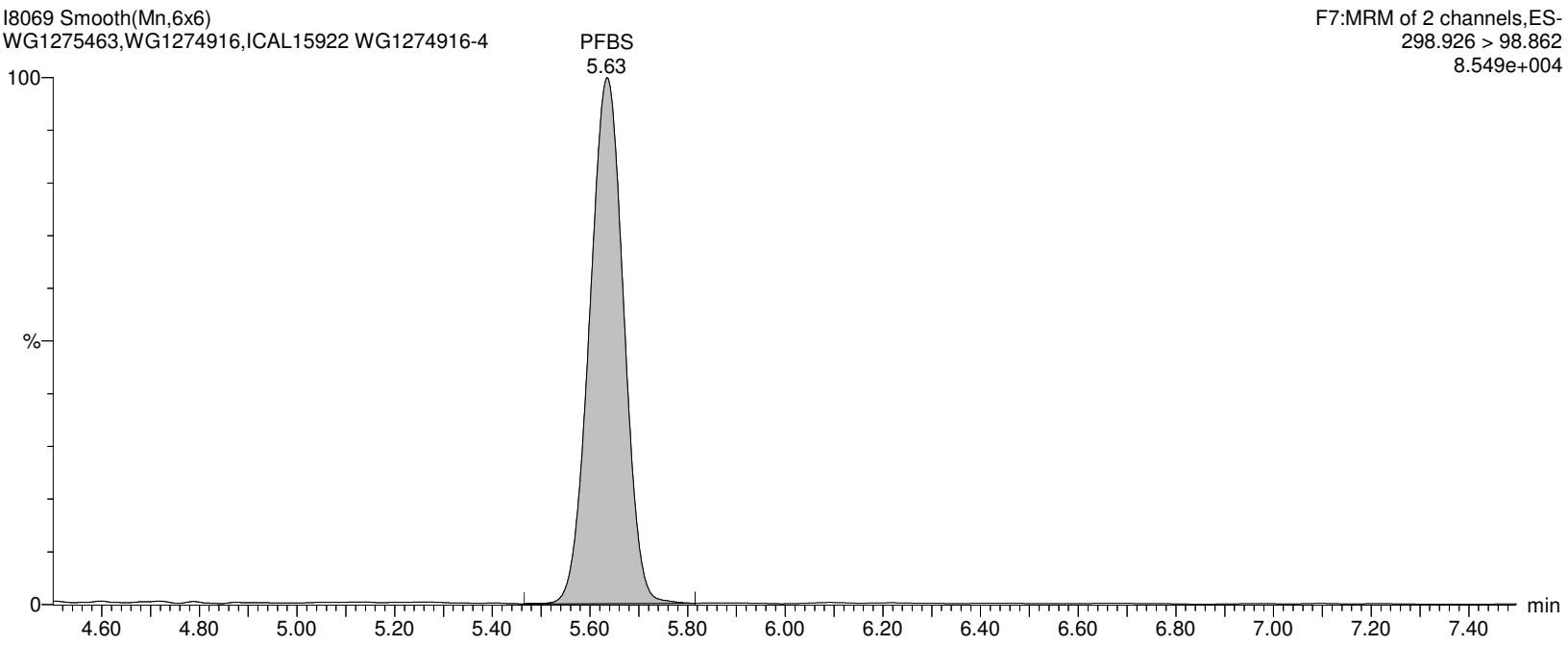
all concentration units in (ng/mL)

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PFBS



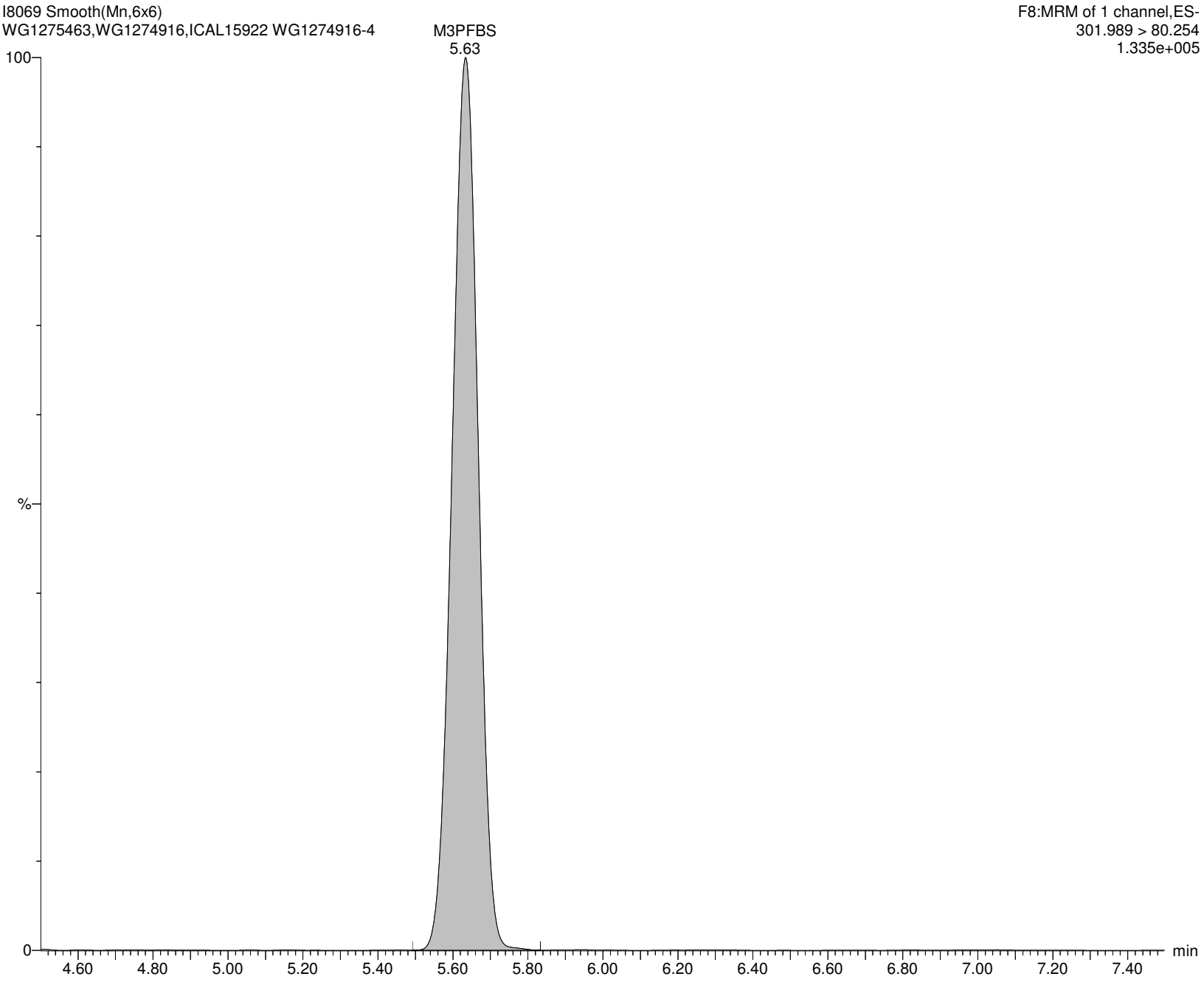


all concentration units in (ng/mL)

Alpha Analytical Inc.
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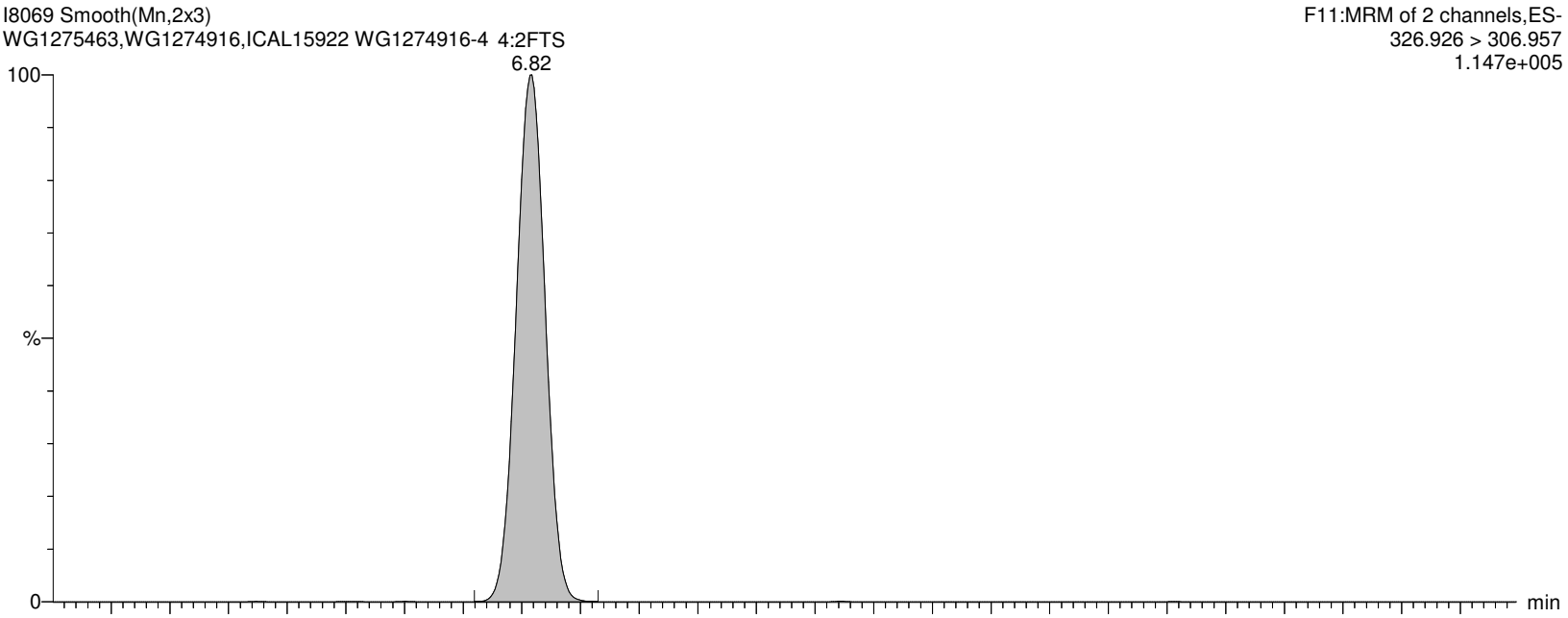


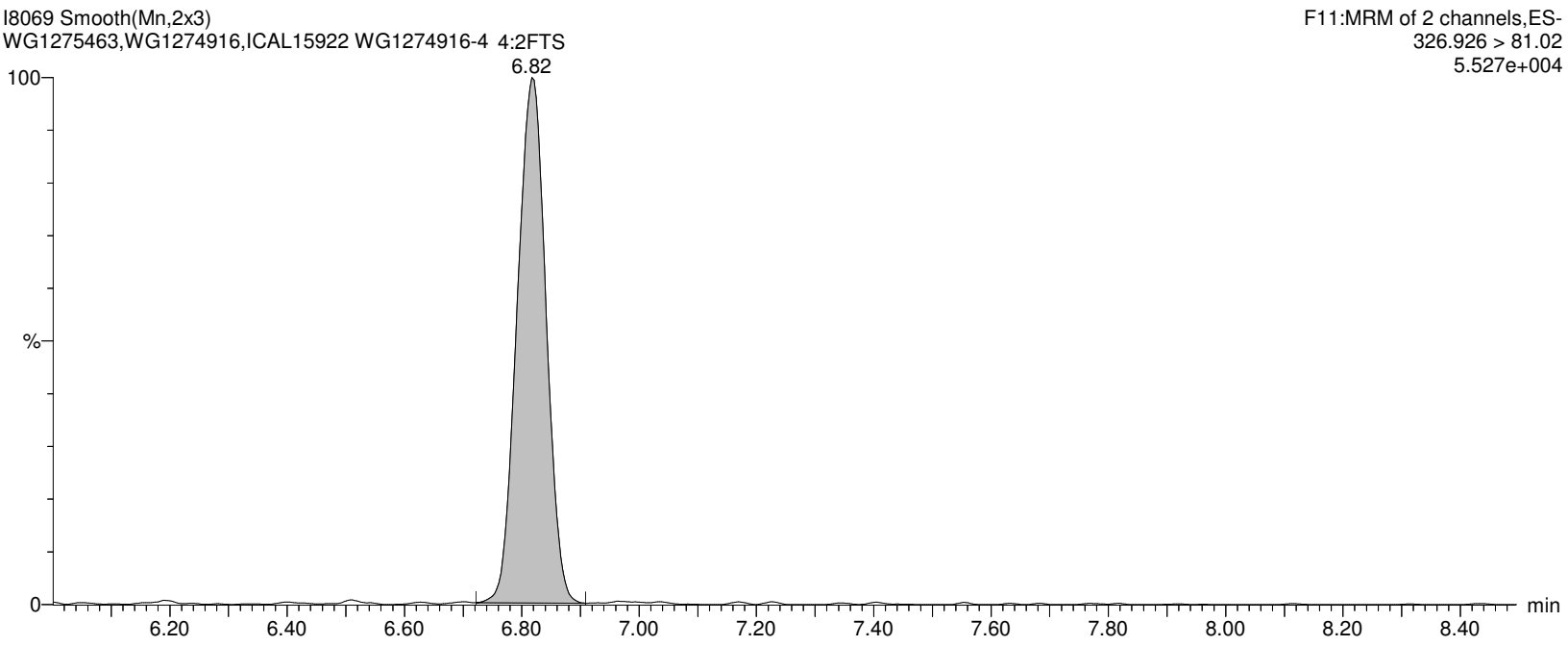
all concentration units in (ng/mL)

Alpha Analytical Inc.
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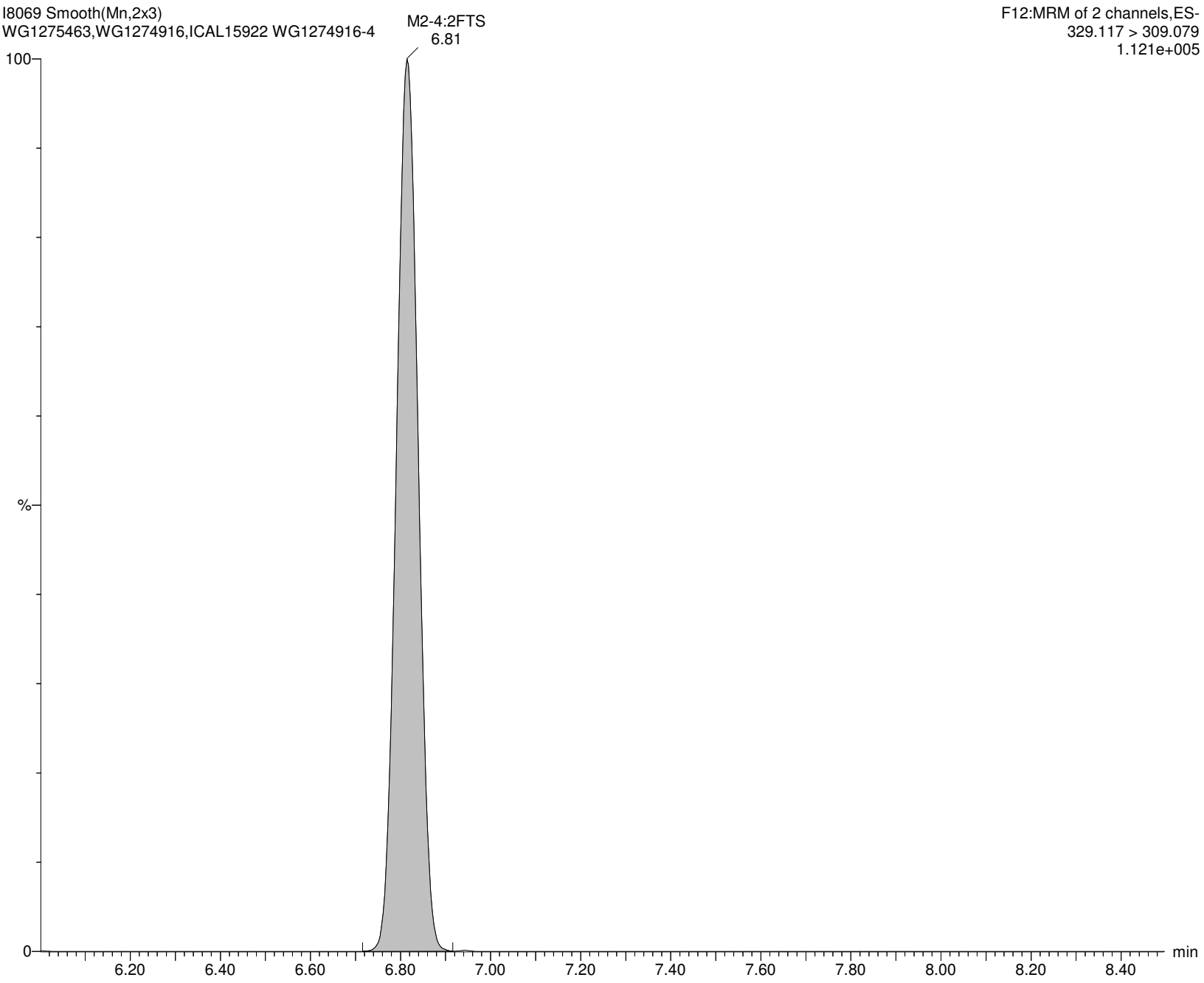


all concentration units in (ng/mL)

Alpha Analytical Inc.
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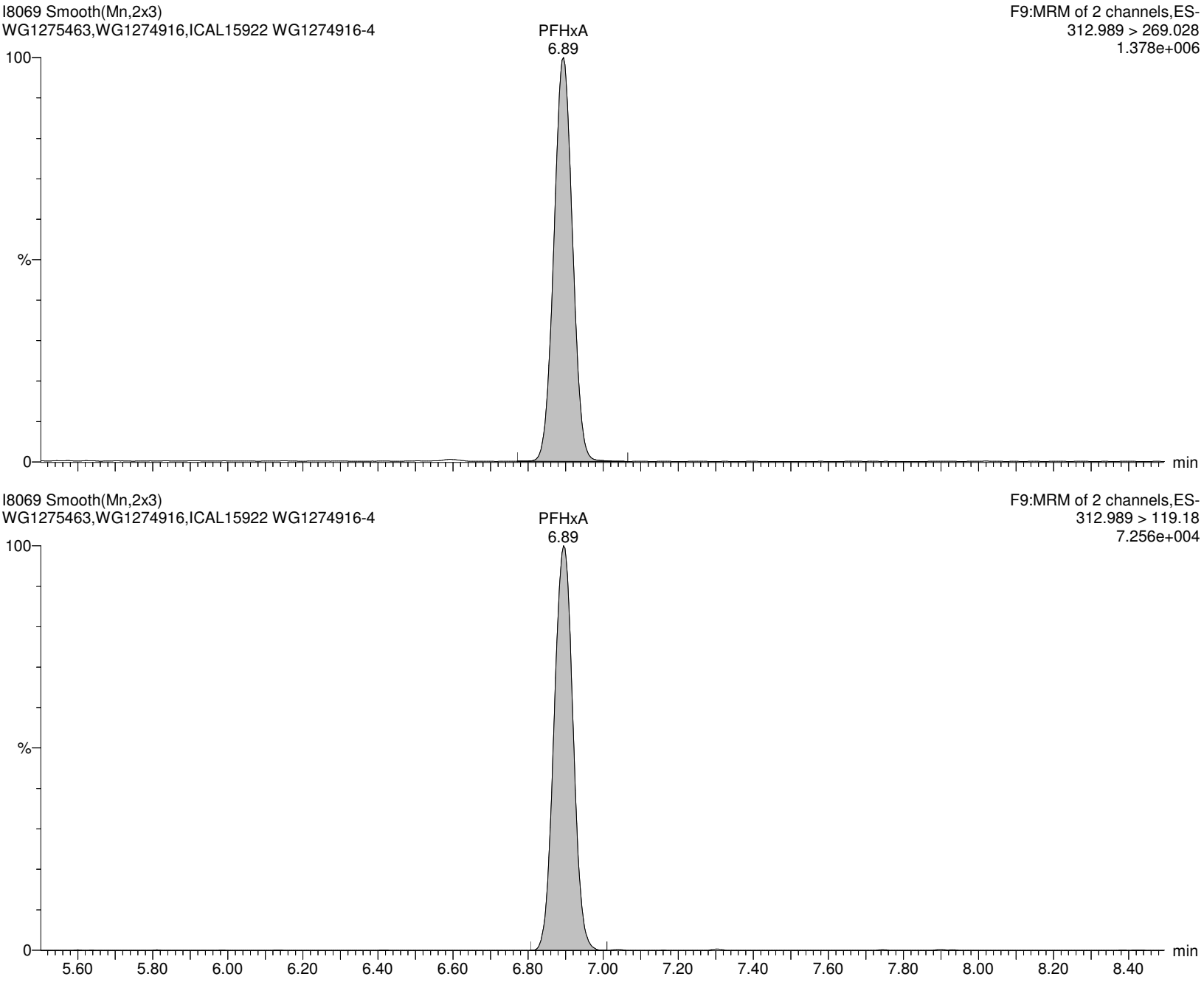


all concentration units in (ng/mL)

Alpha Analytical Inc.
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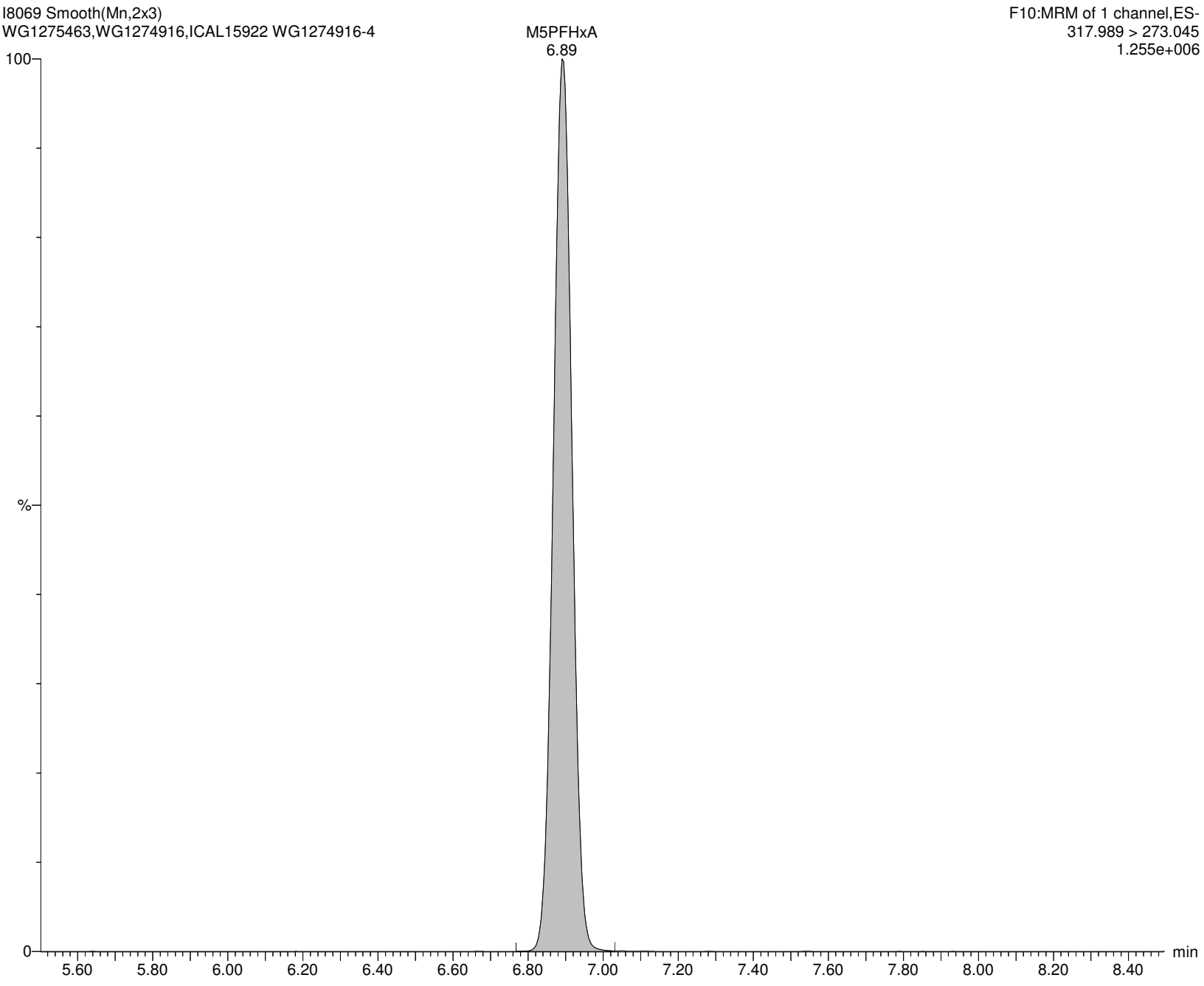


all concentration units in (ng/mL)

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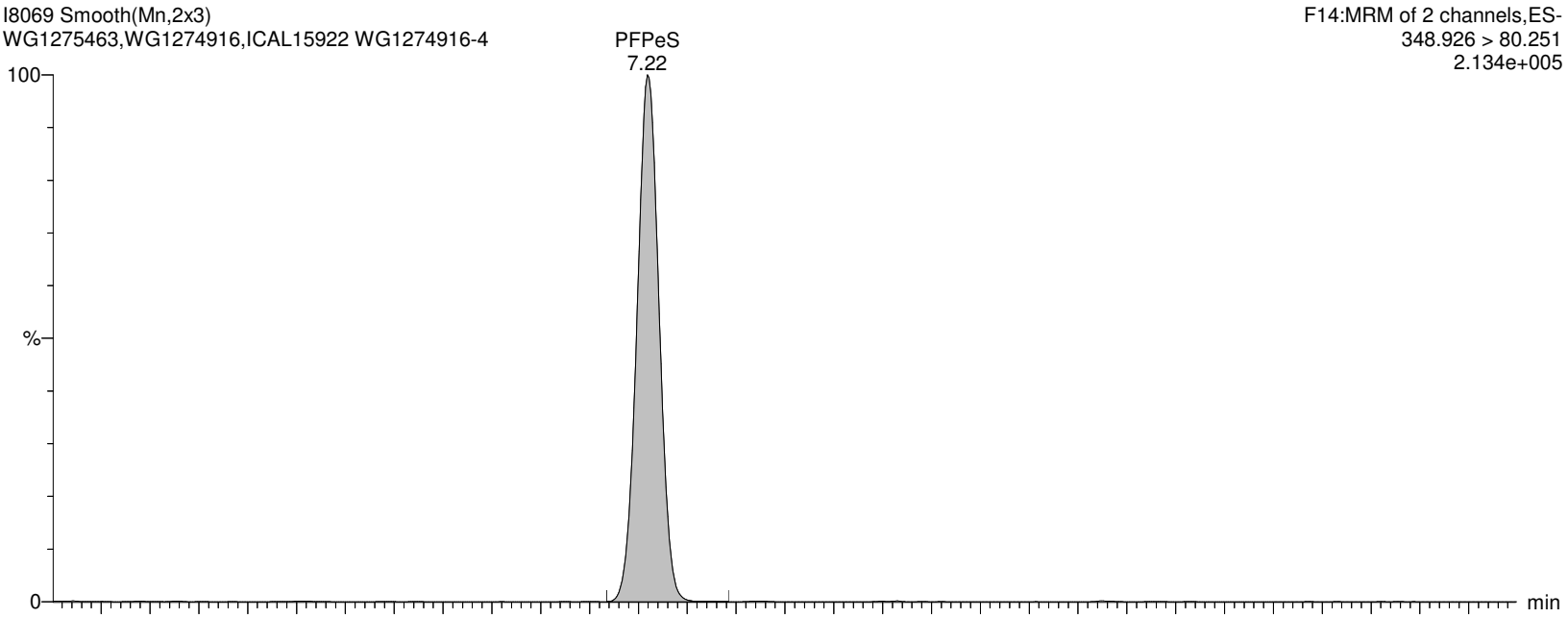


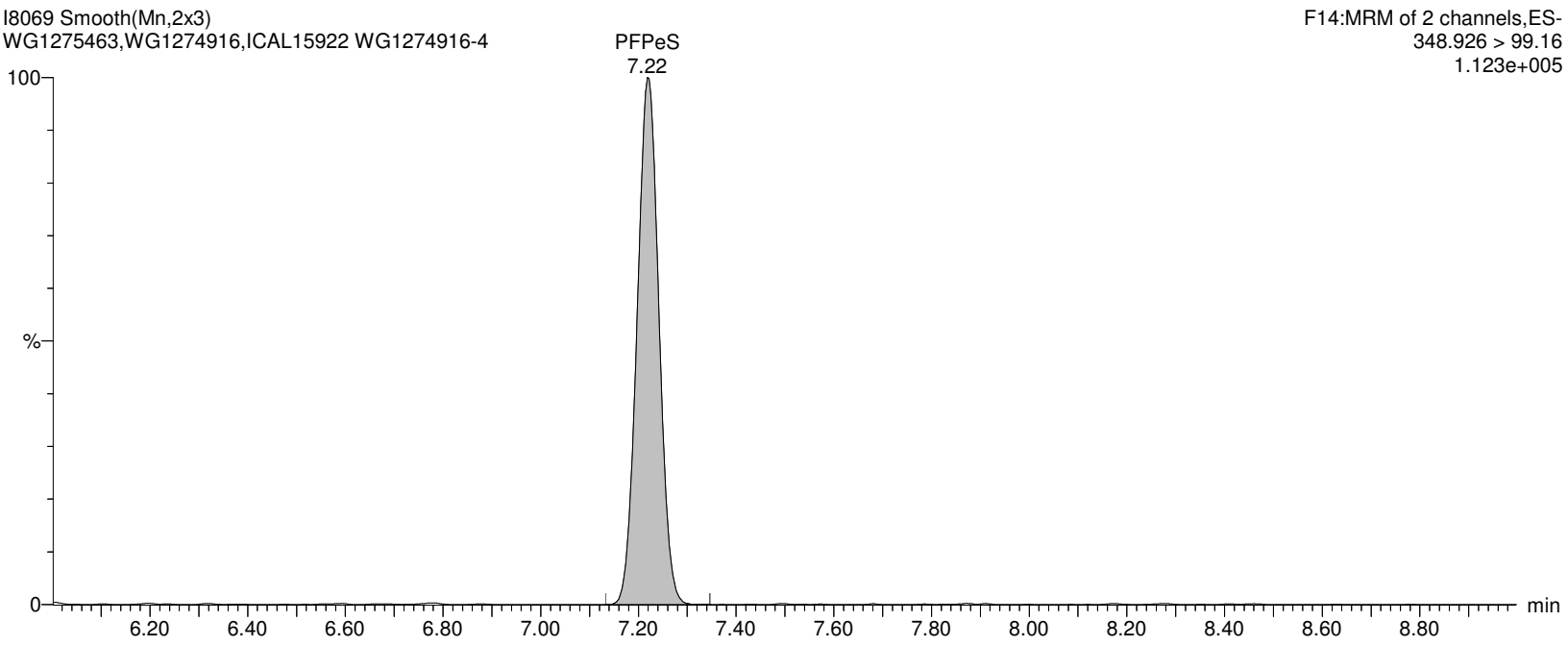
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
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PFPeS



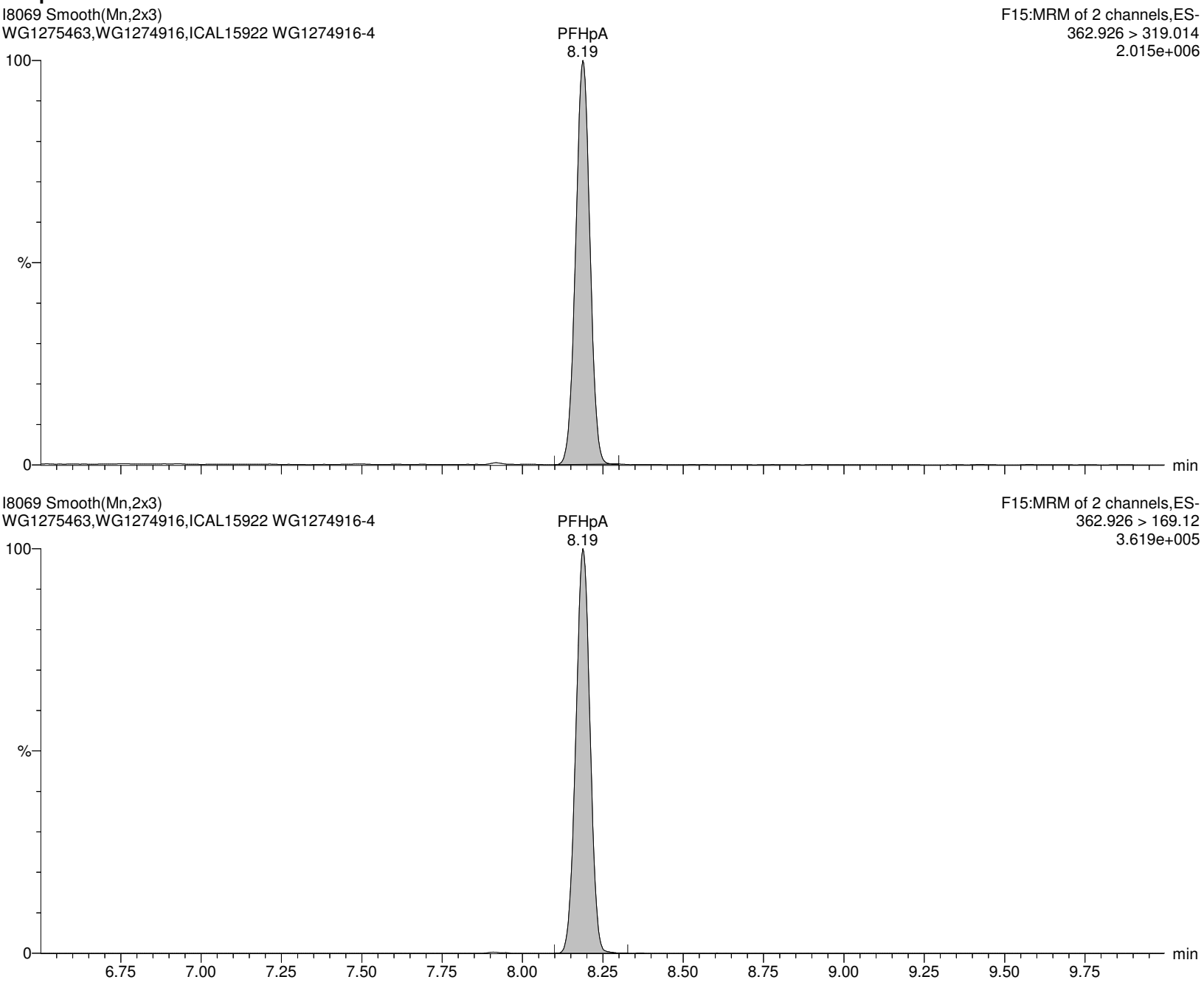


all concentration units in (ng/mL)

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PFHpA

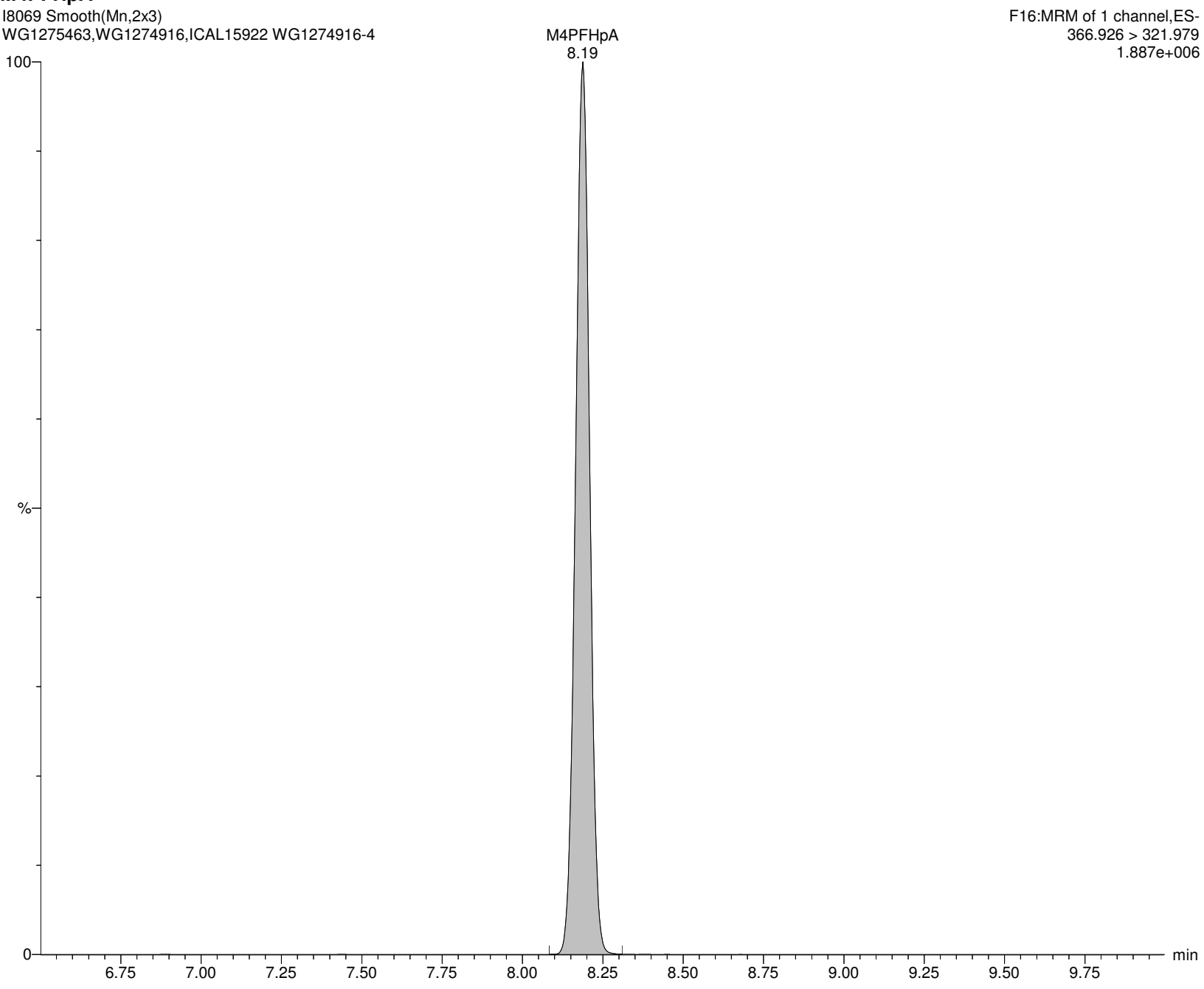


all concentration units in (ng/mL)

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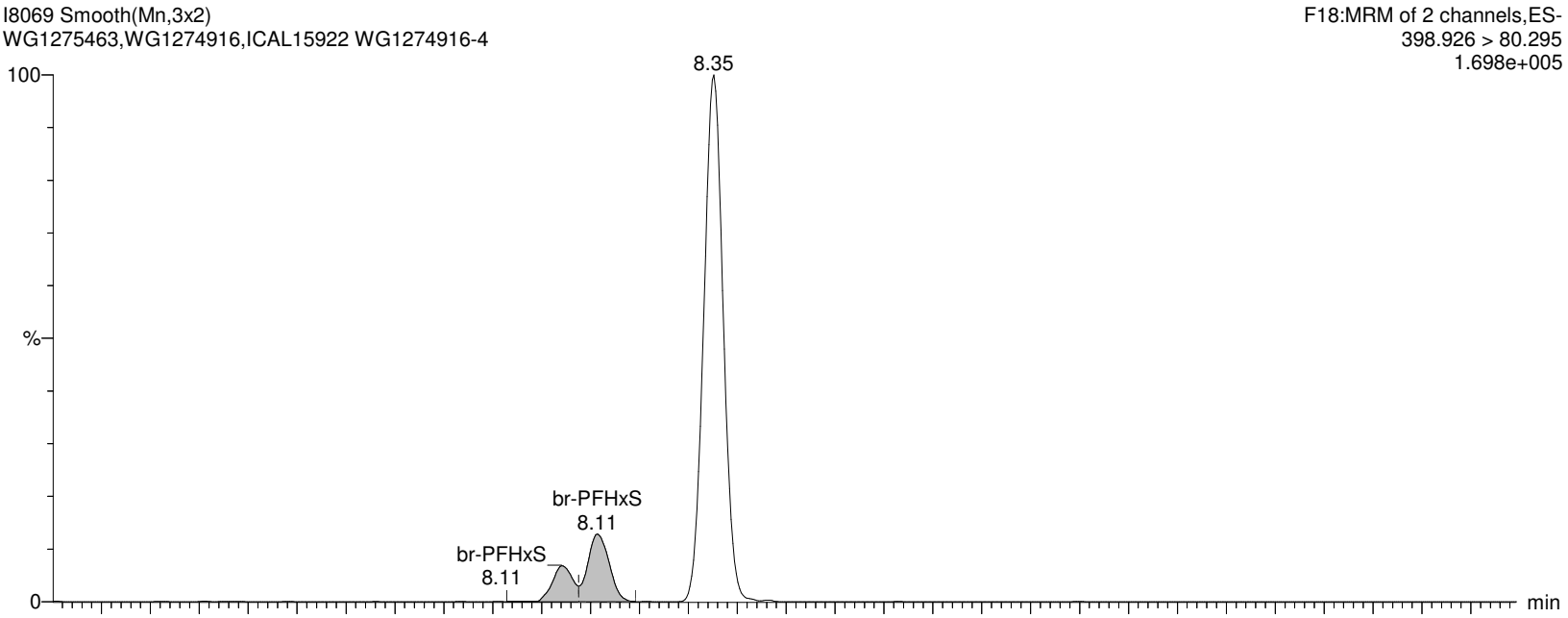


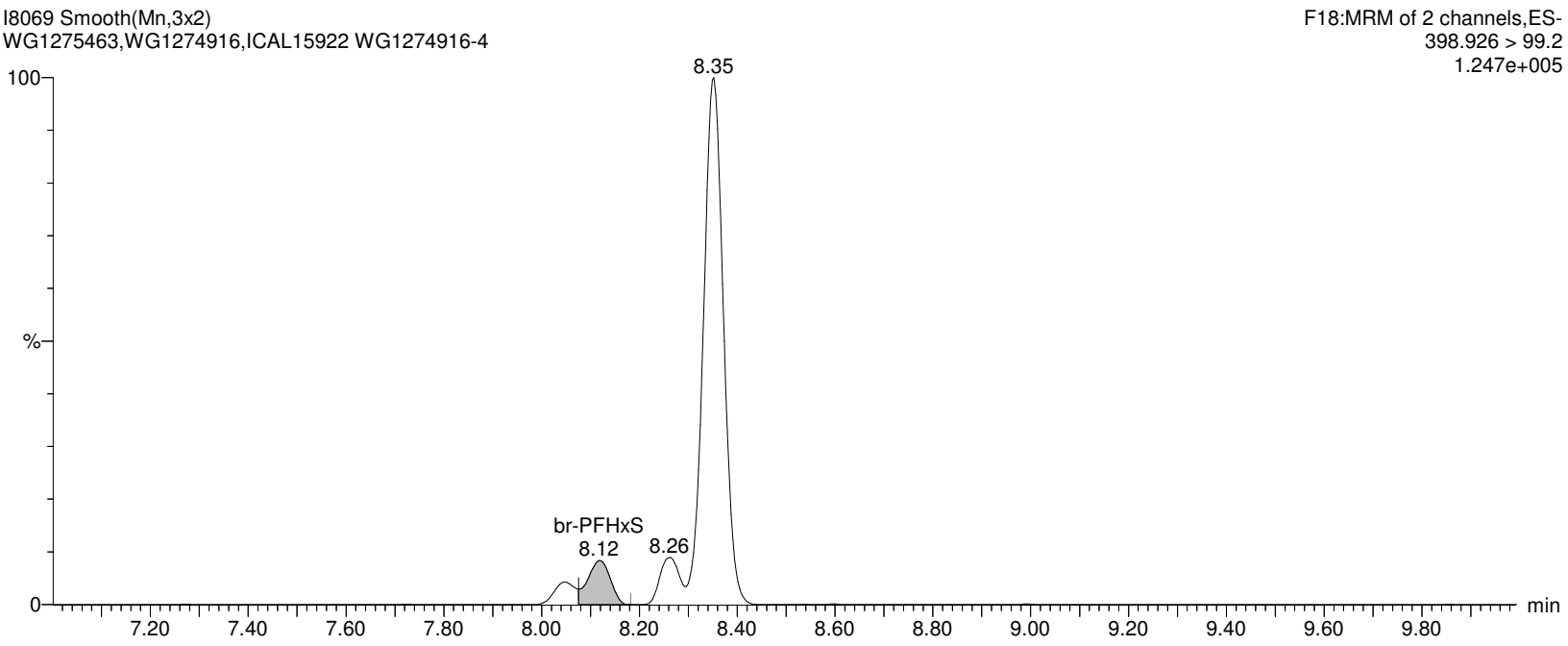
all concentration units in (ng/mL)

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br-PFHxS



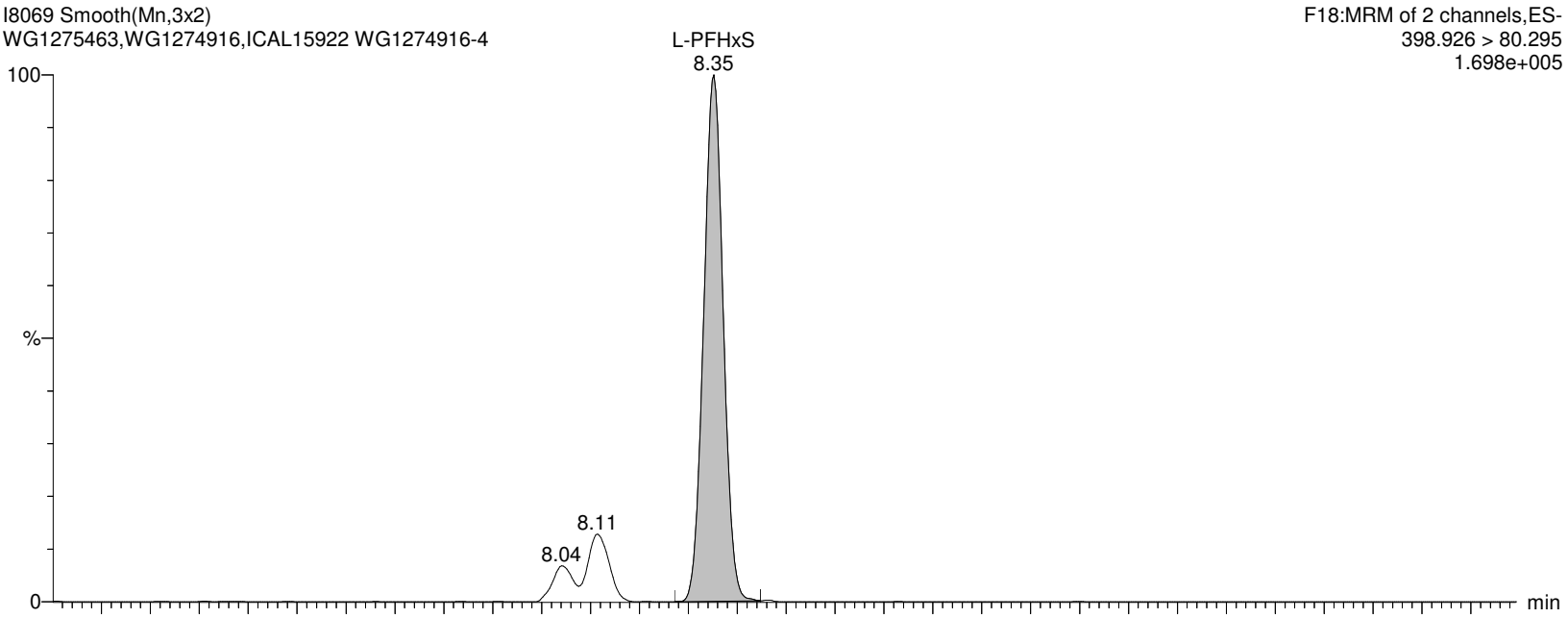


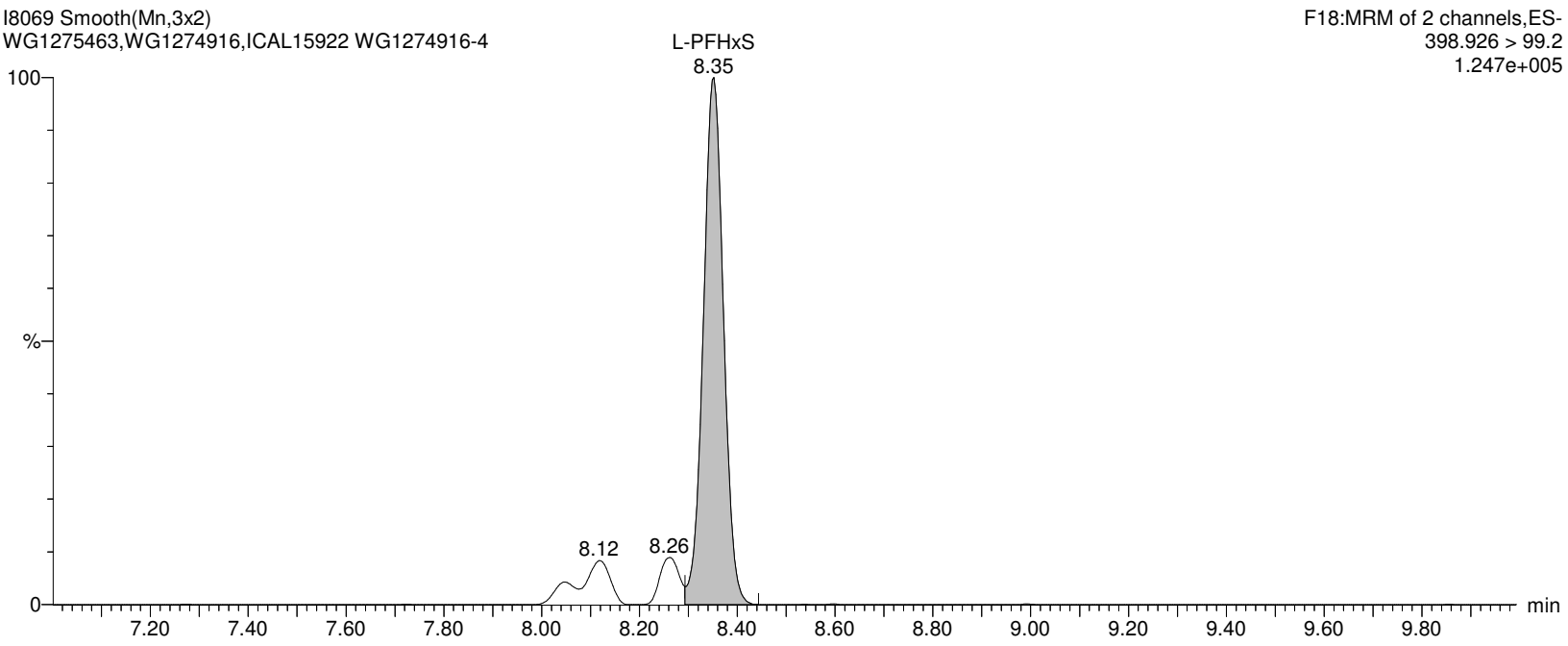
all concentration units in (ng/mL)

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L-PFHxS



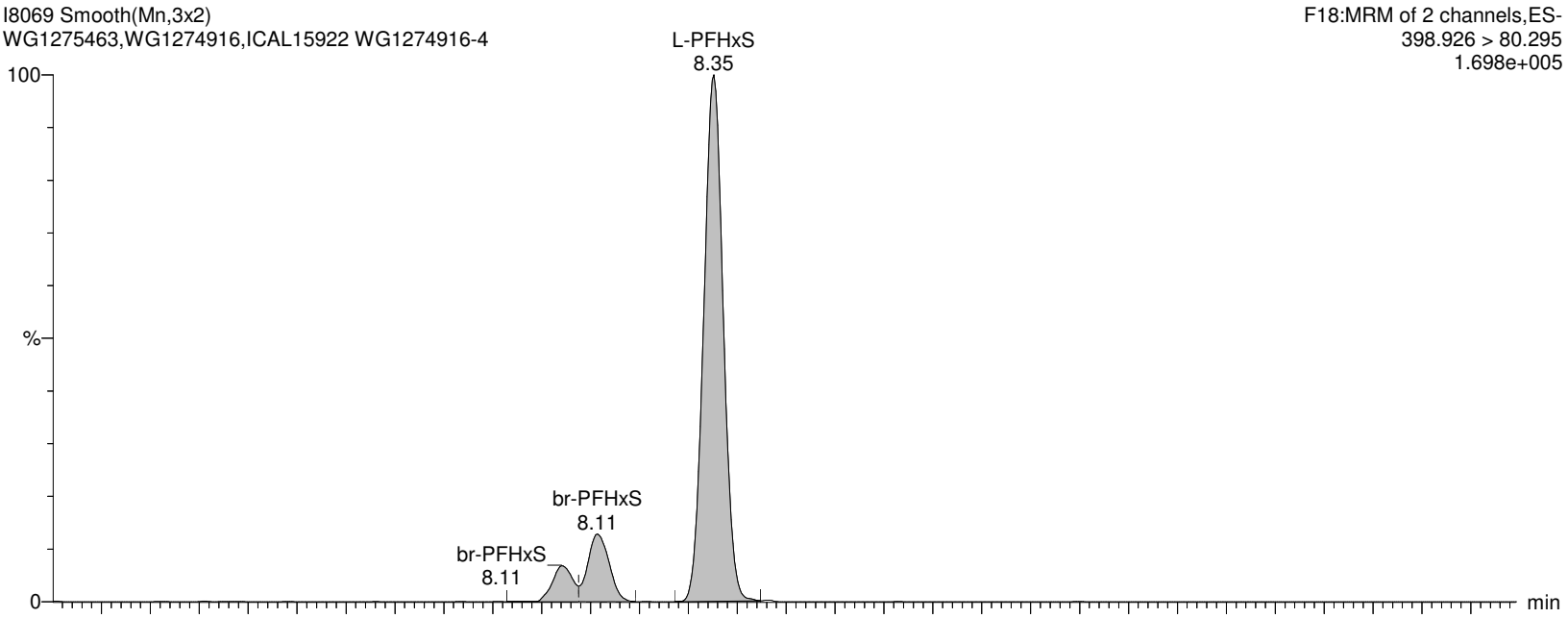


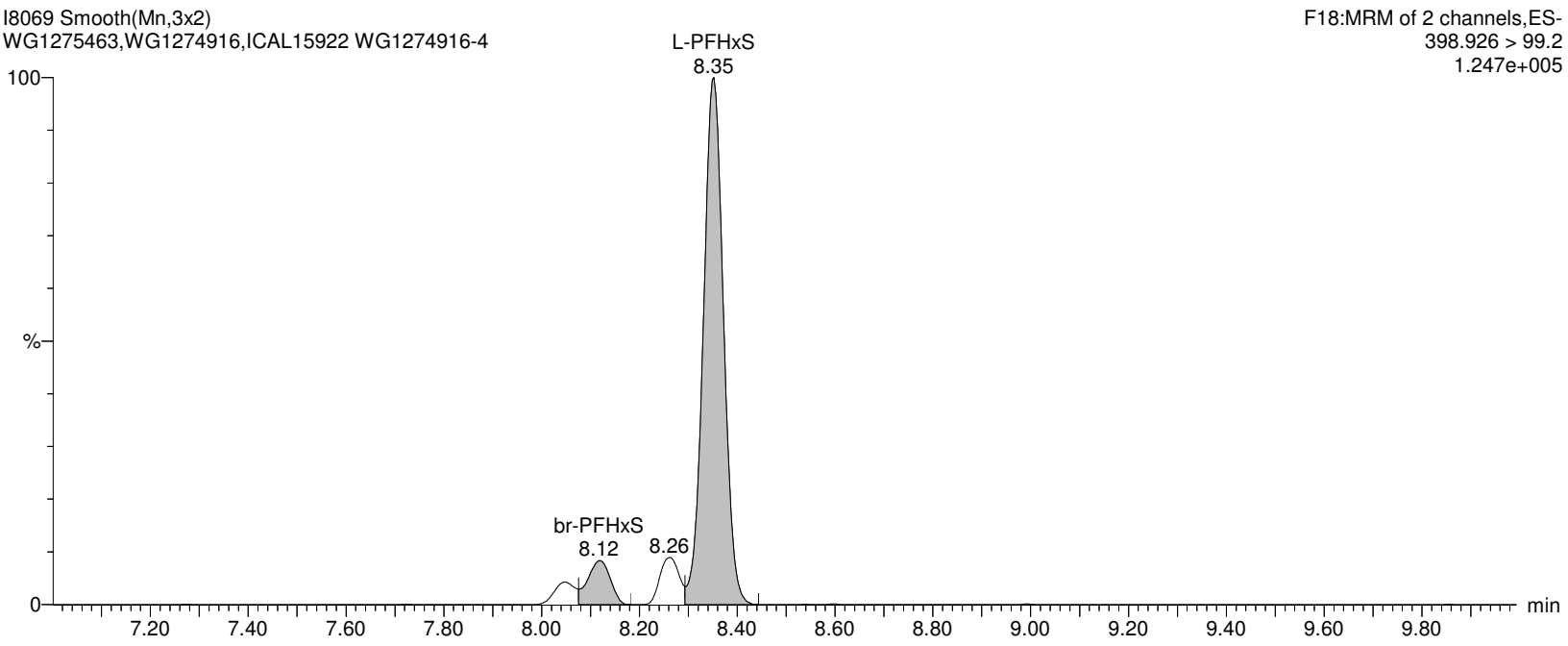
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
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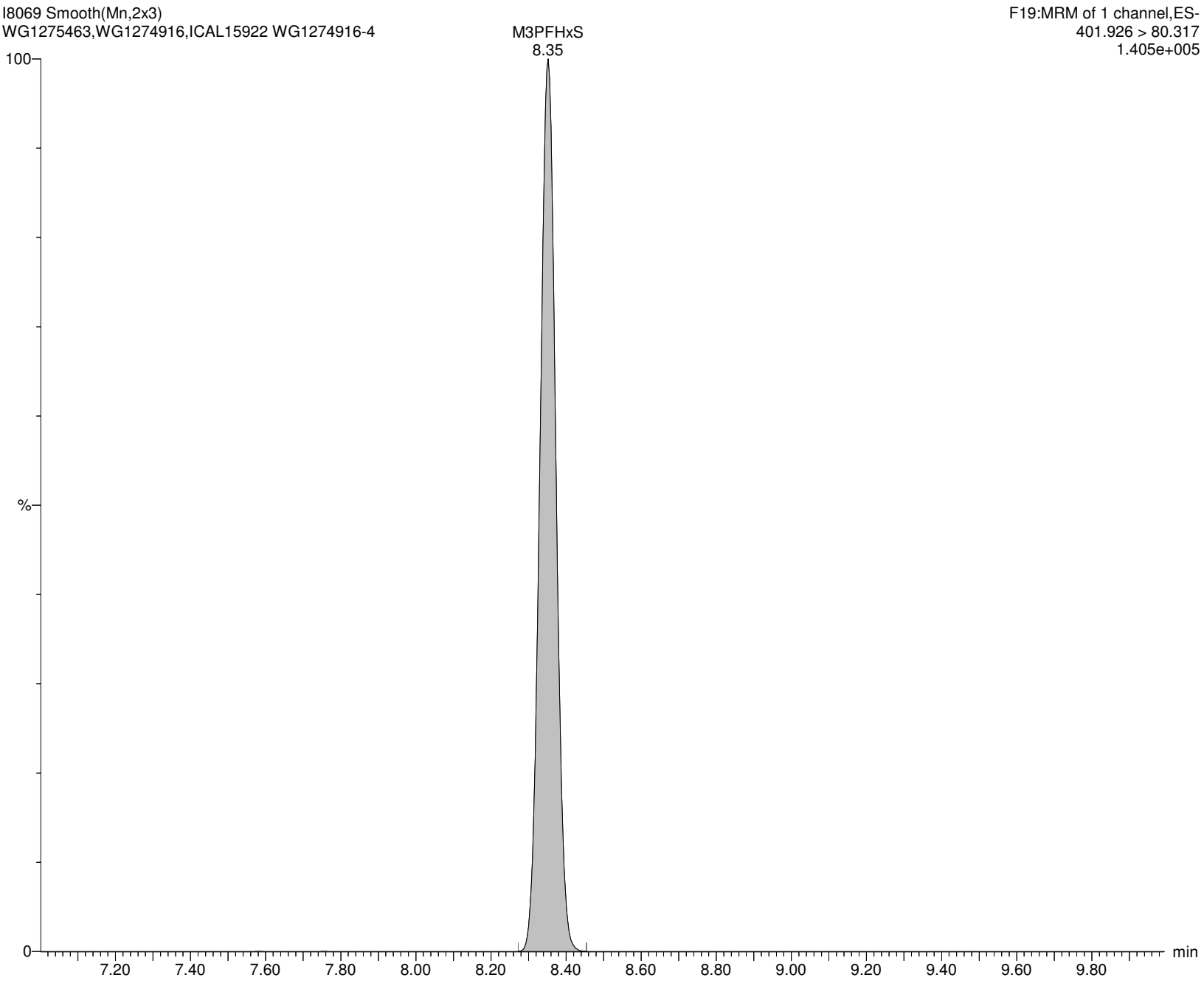


all concentration units in (ng/mL)

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M3PFHxS

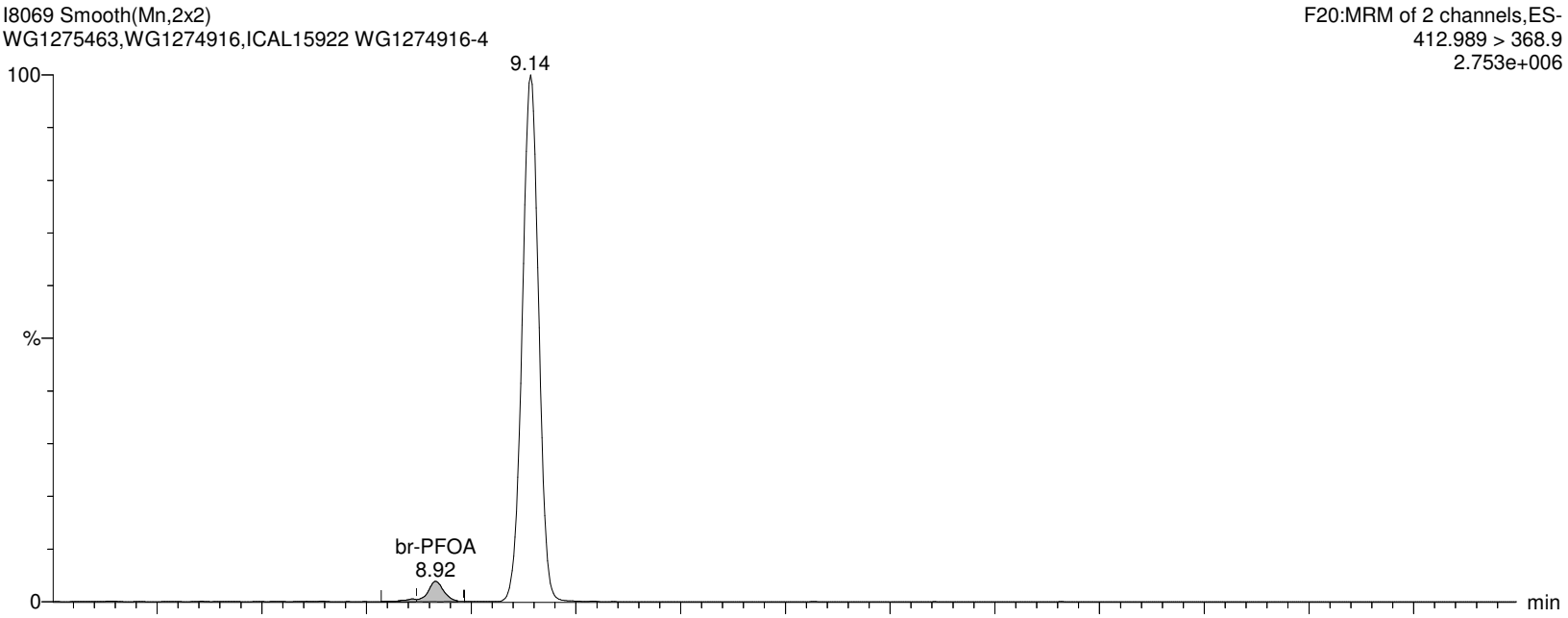


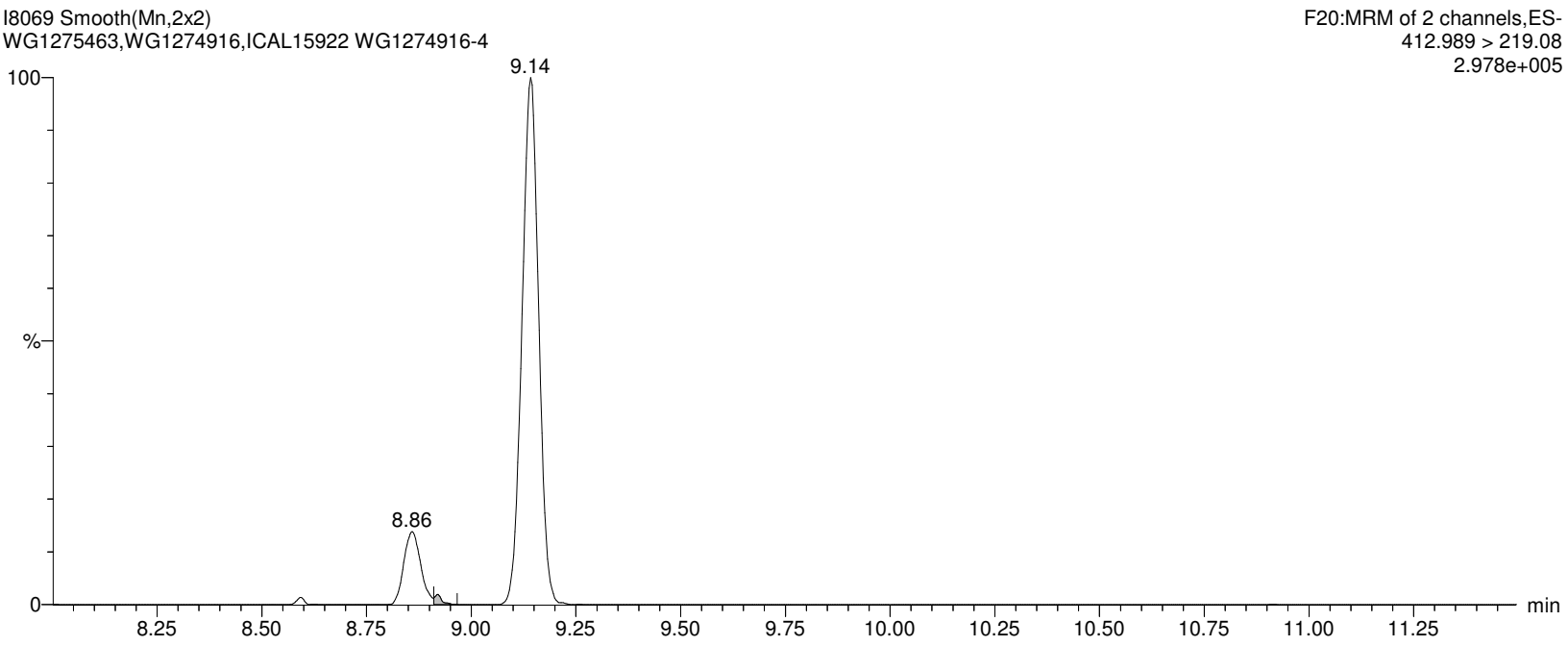
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
Last Altered: Thursday, August 22, 2019 13:45:42 Eastern Daylight Time
Printed: Thursday, August 22, 2019 13:49:31 Eastern Daylight Time

Name: I8069
ID: WG1274916-4
Date: 22-Aug-2019
Time: 12:33:50
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:C,1
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
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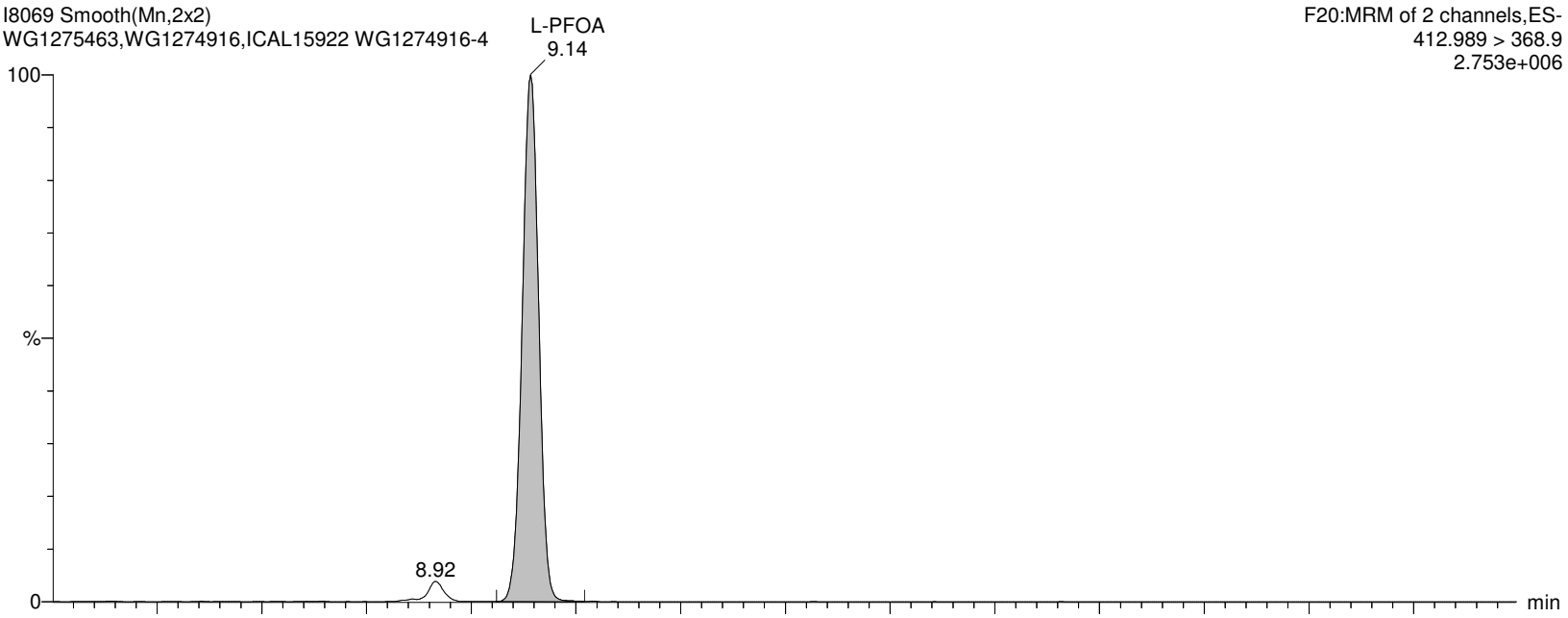


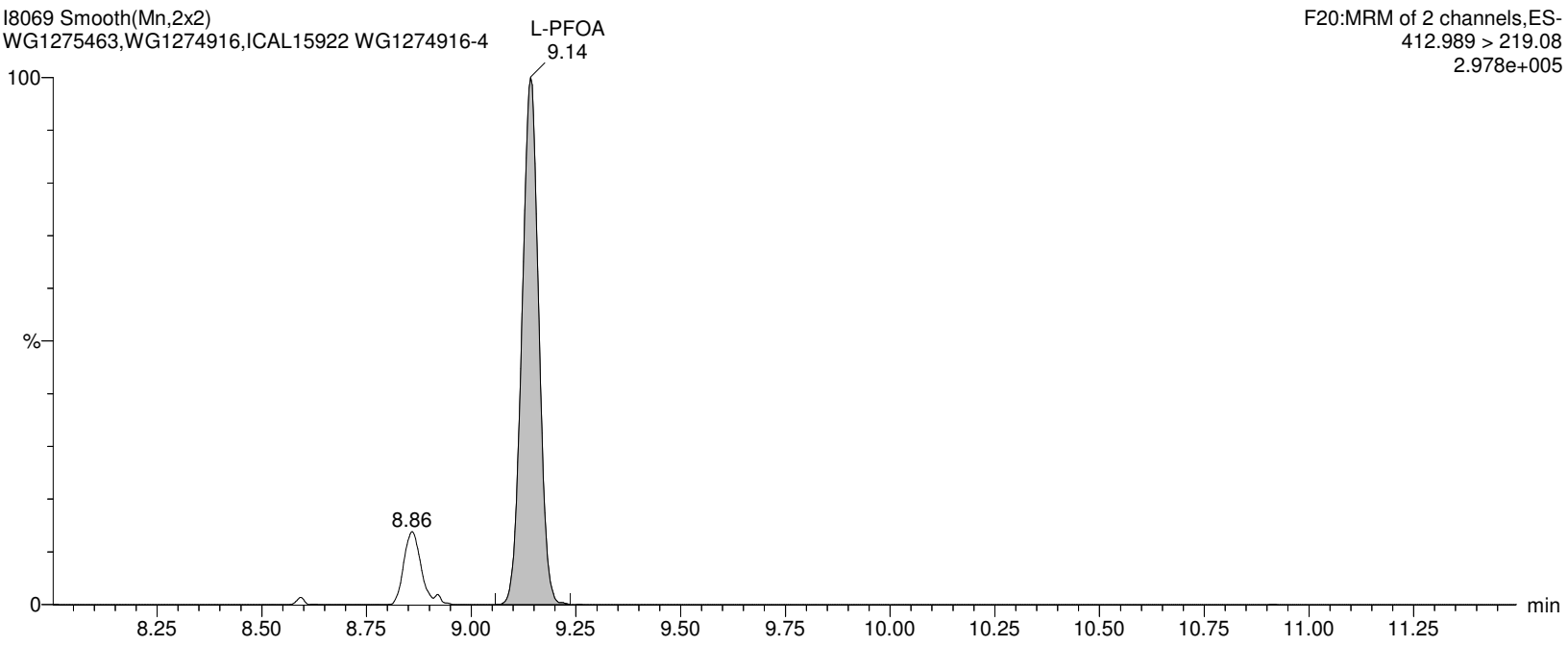
all concentration units in (ng/mL)

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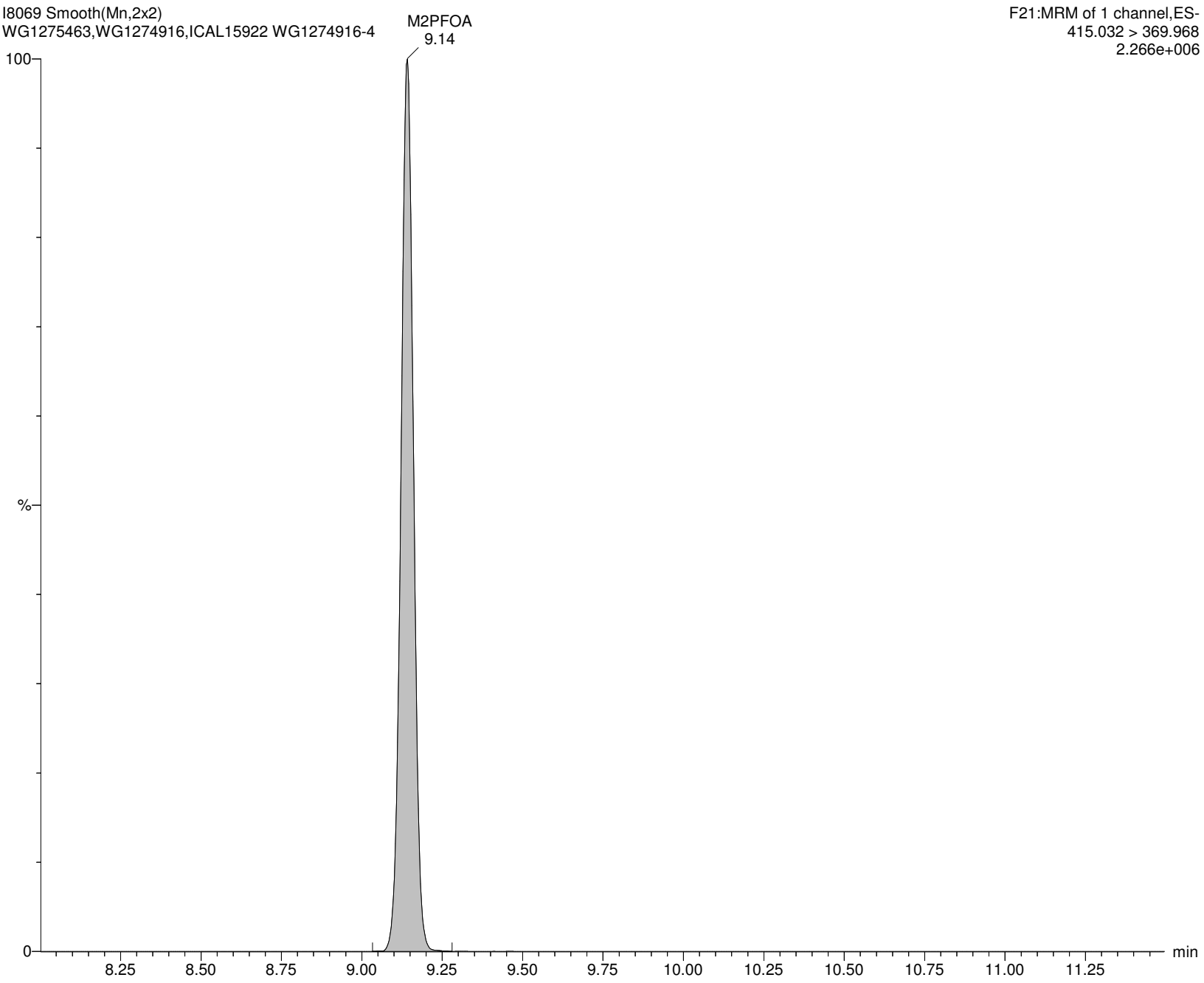


all concentration units in (ng/mL)

Alpha Analytical Inc.
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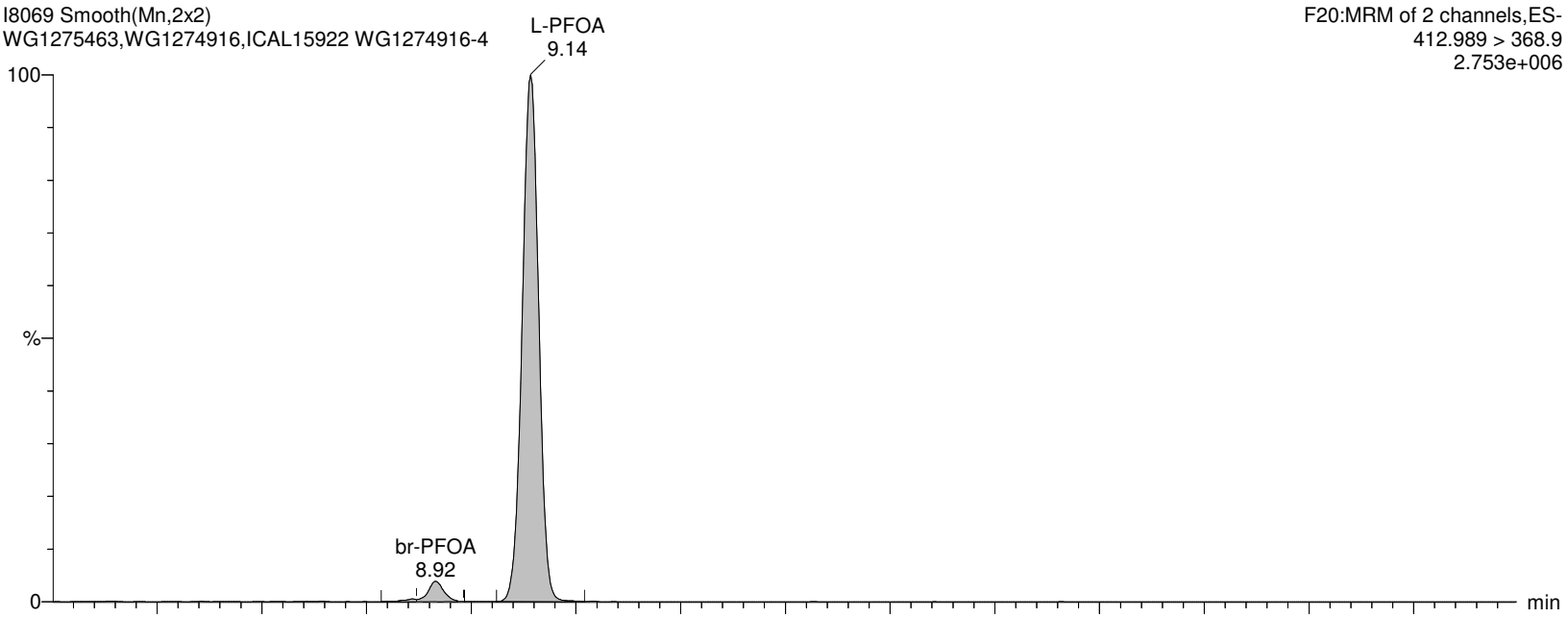


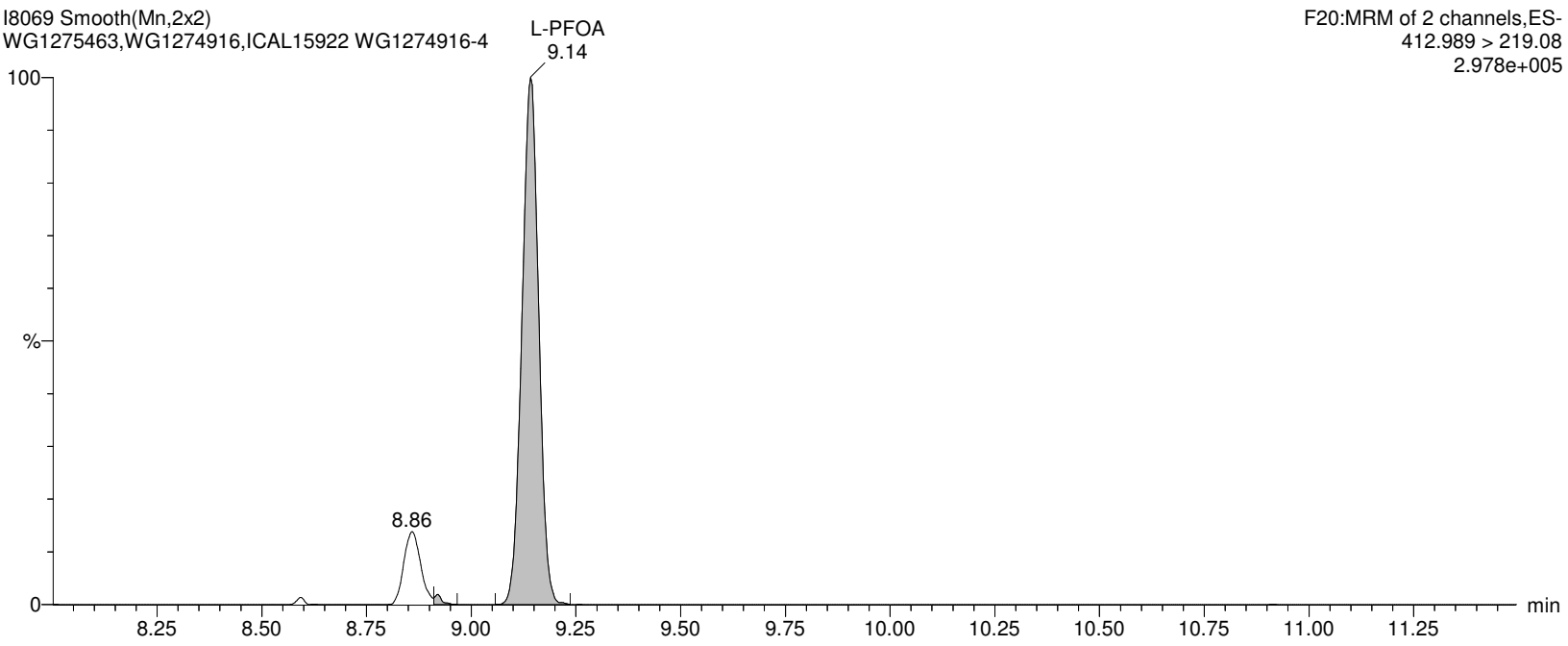
all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
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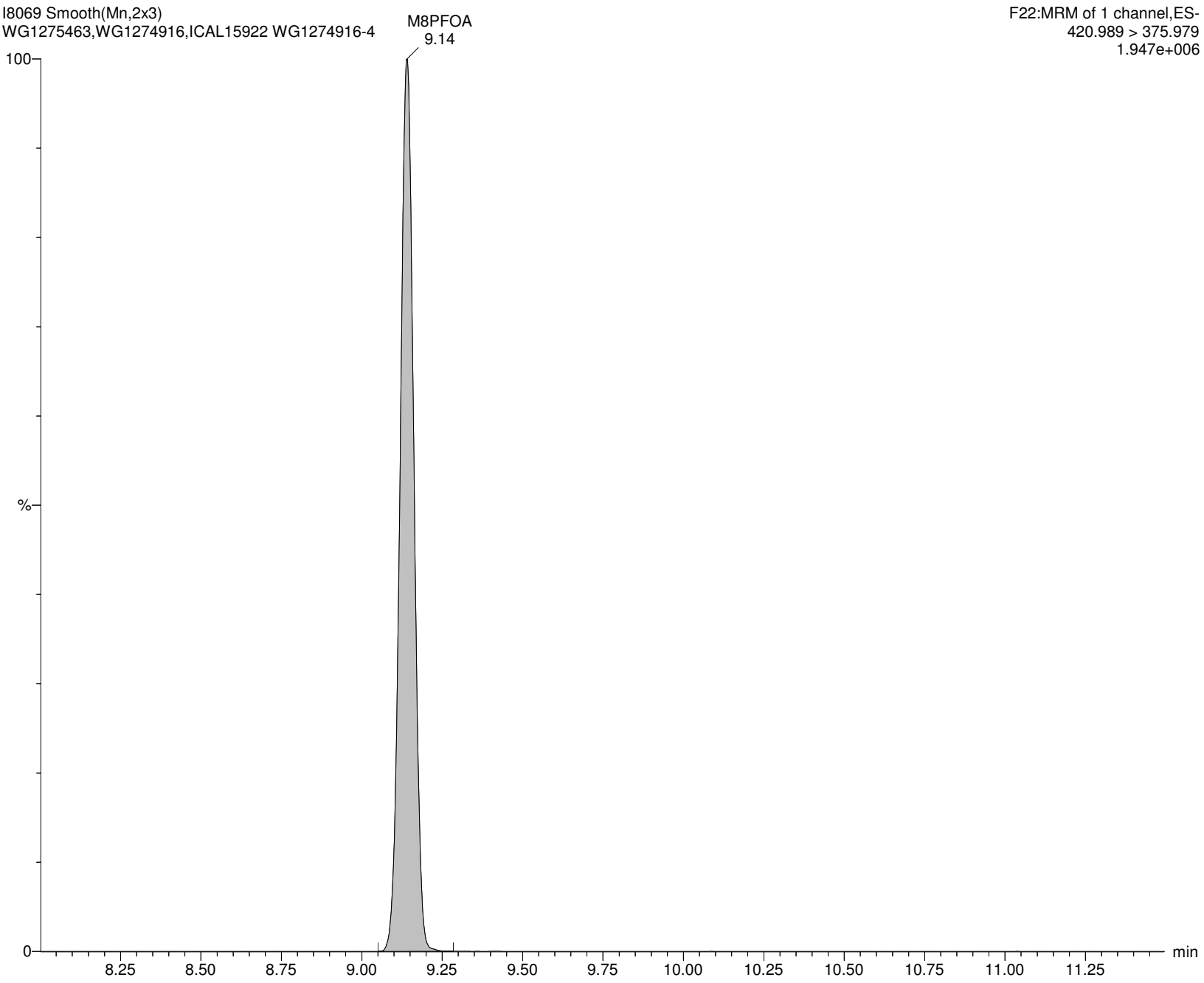


all concentration units in (ng/mL)

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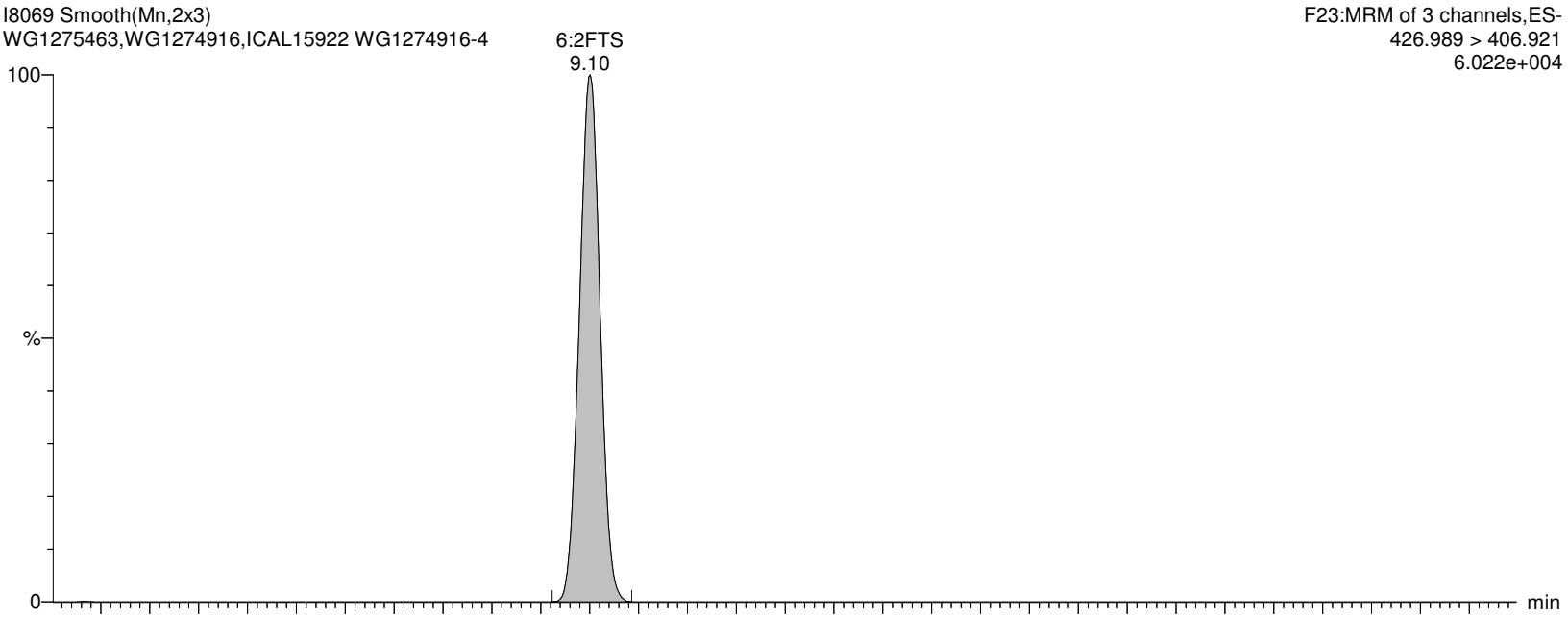


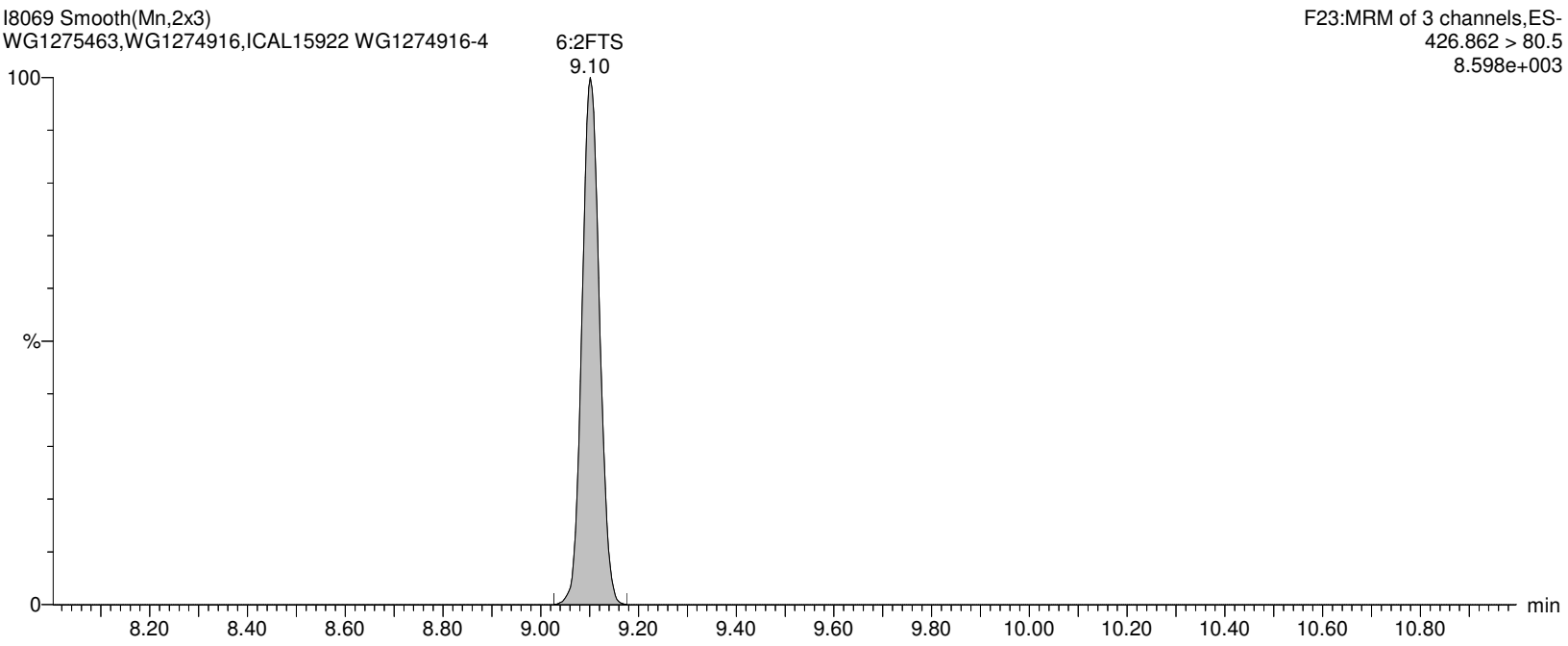
all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
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6:2FTS



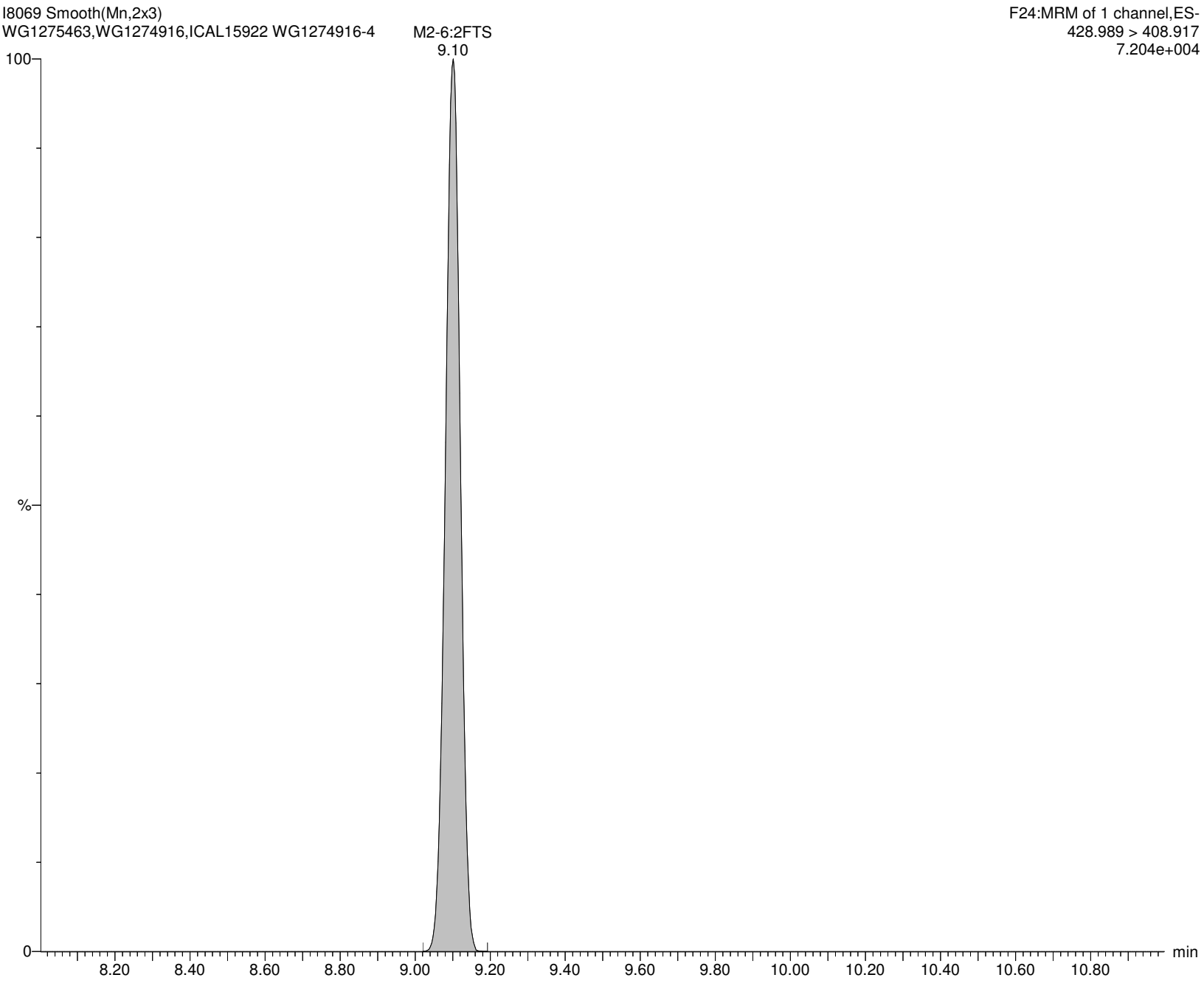


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
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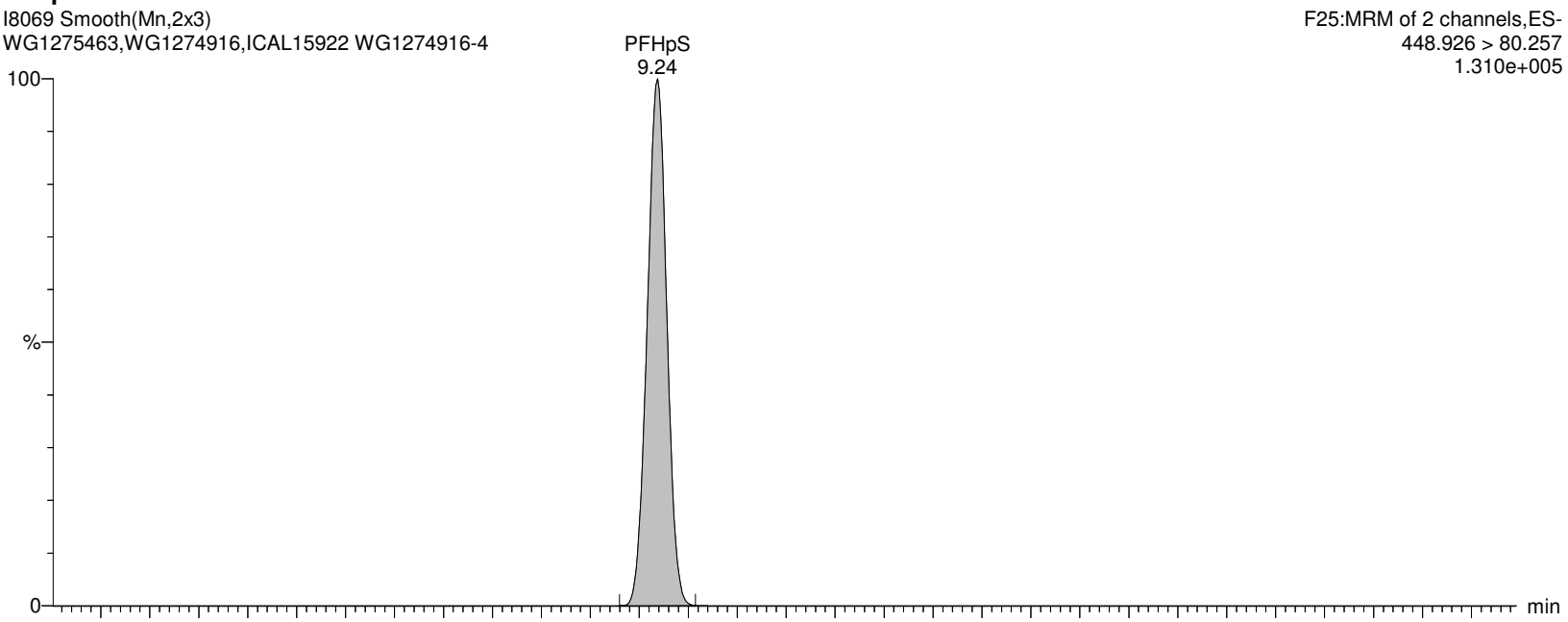


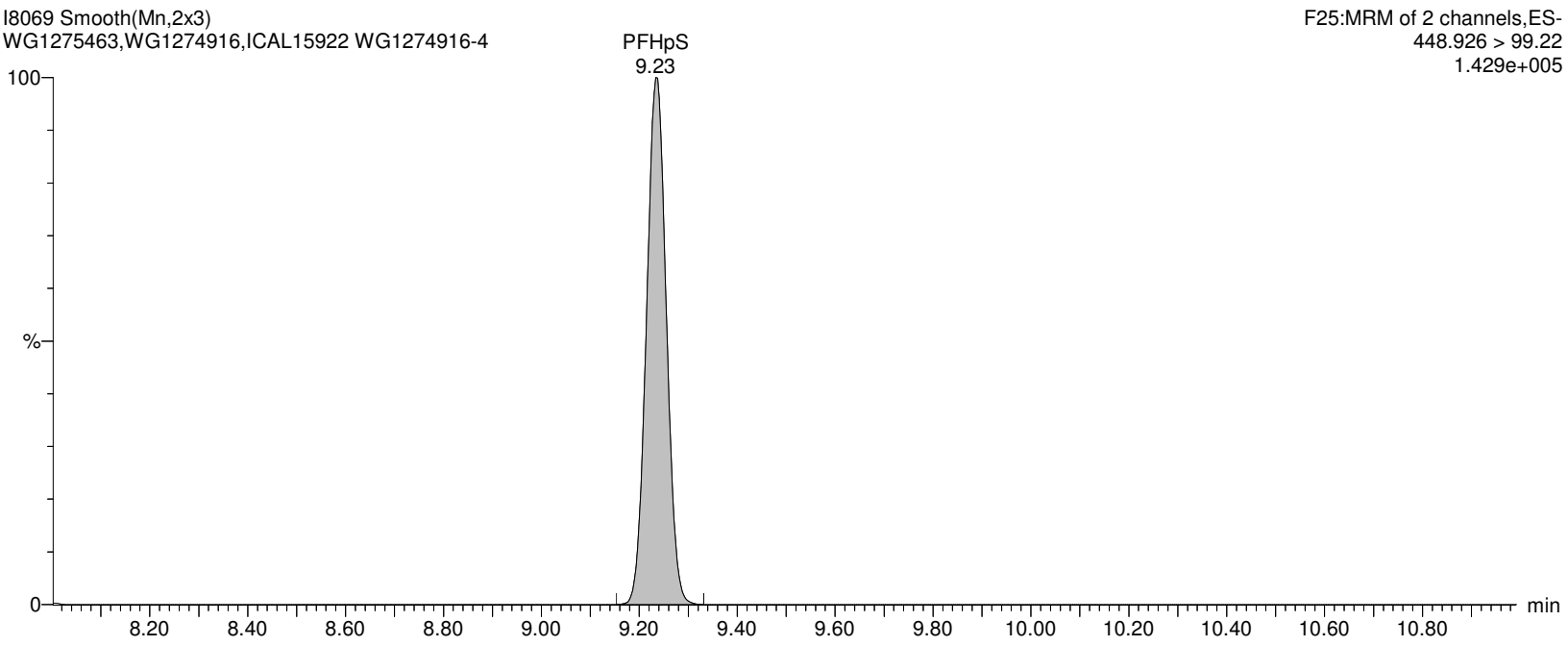
all concentration units in (ng/mL)

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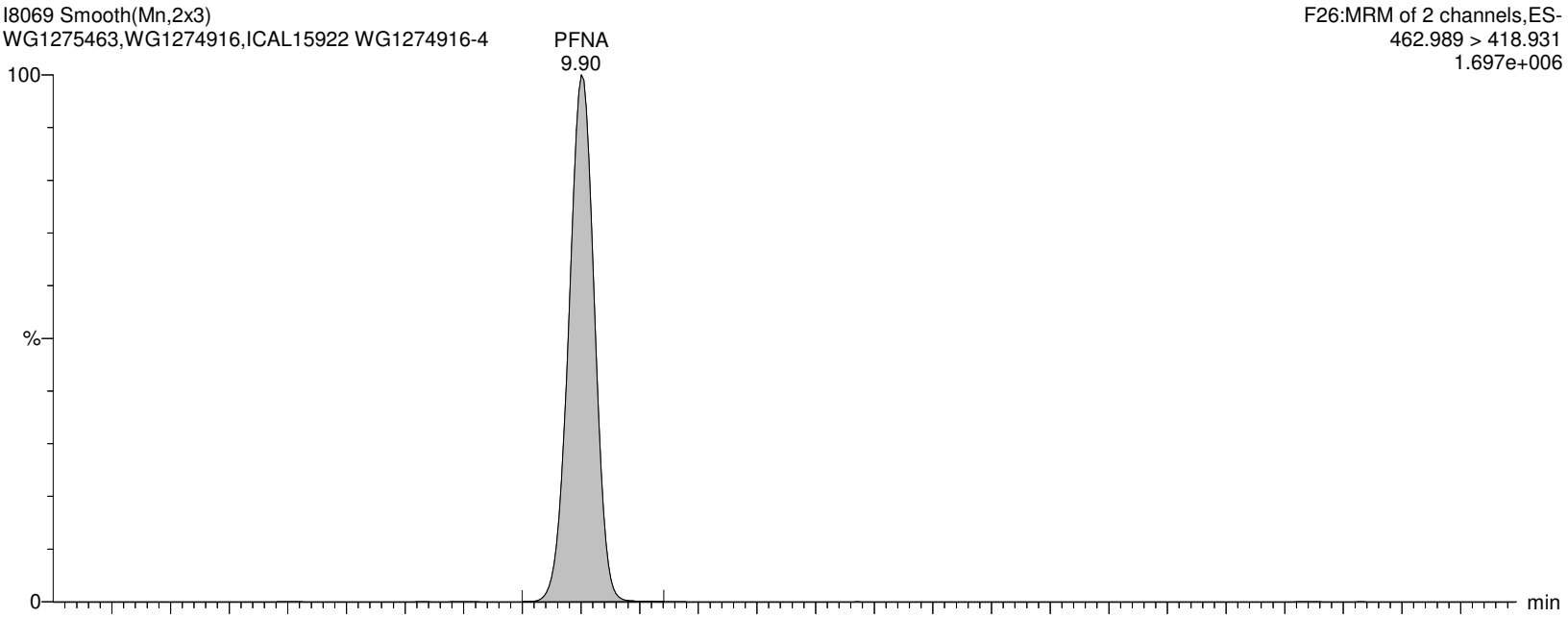


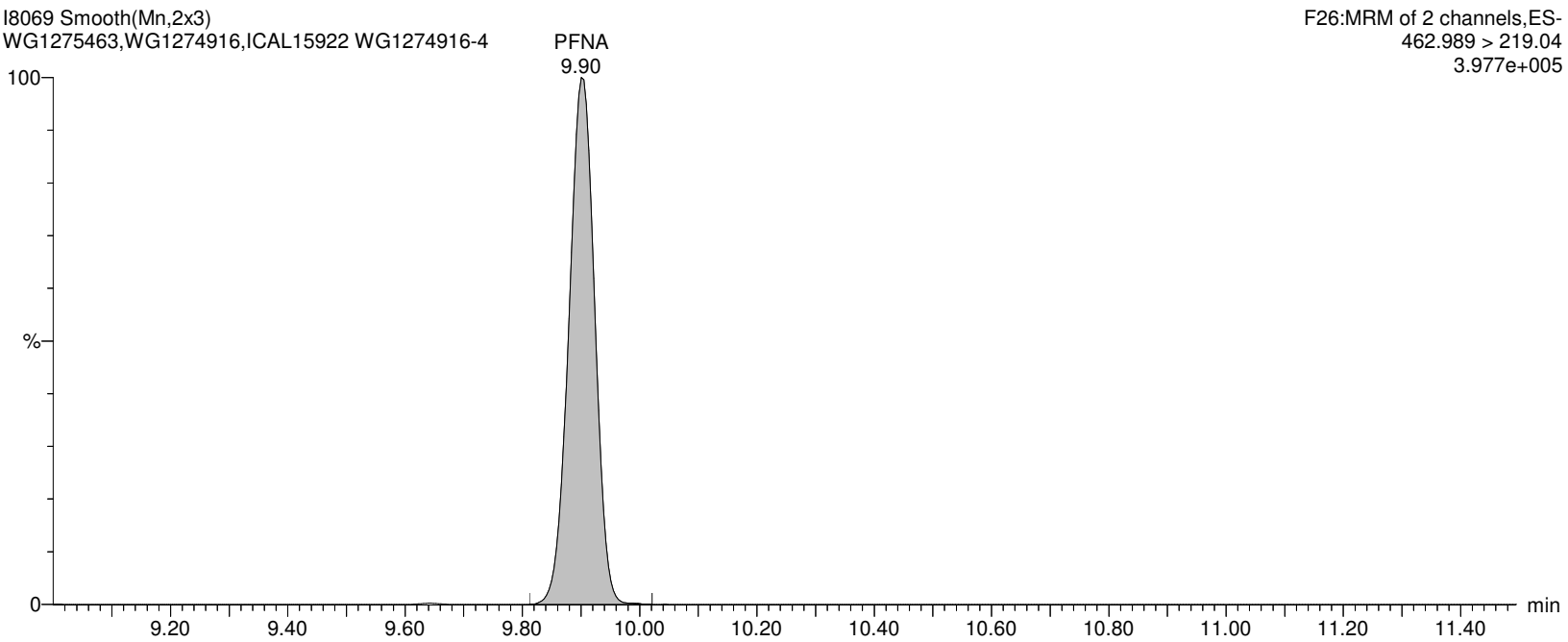
all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
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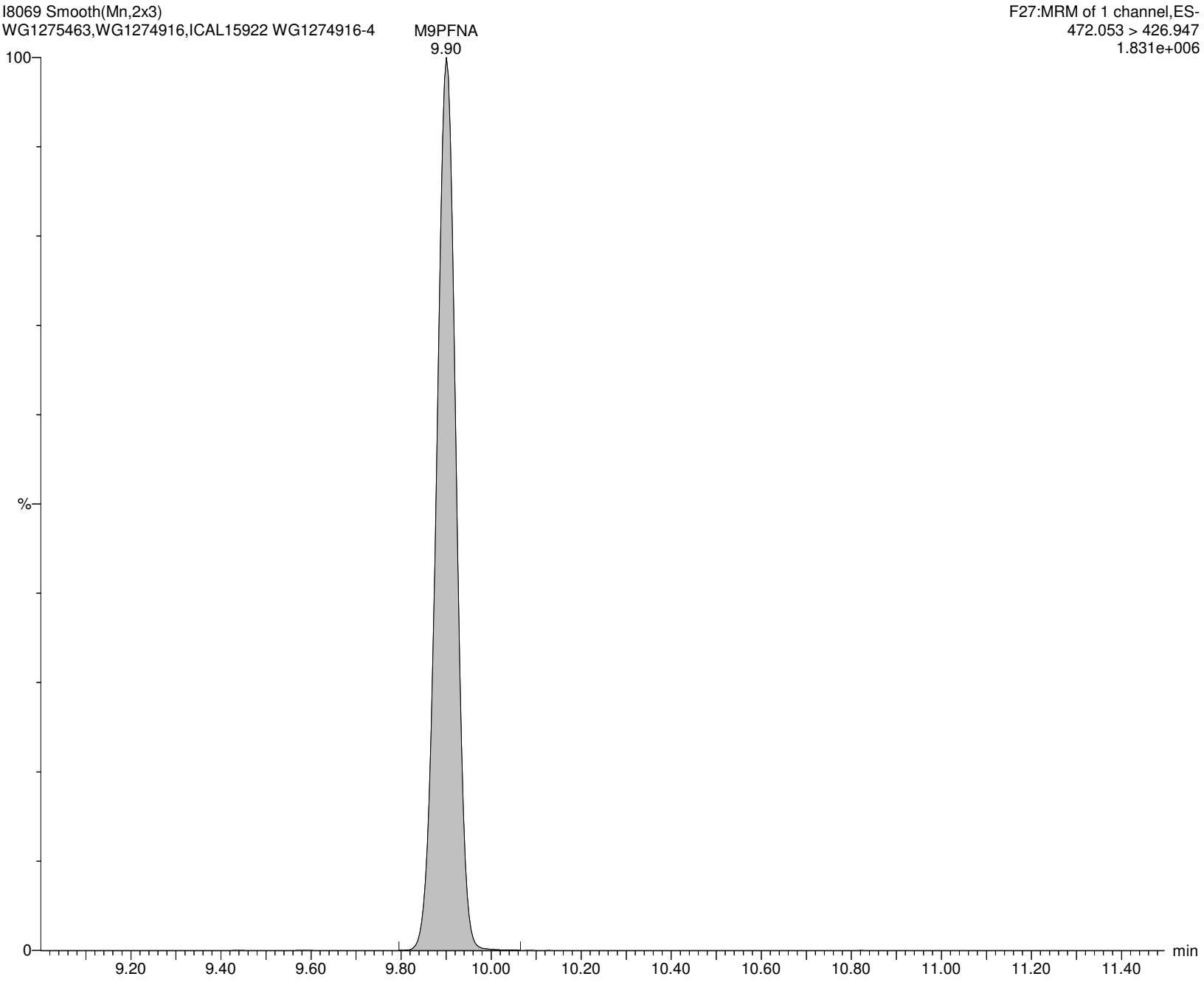


all concentration units in (ng/mL)

Alpha Analytical Inc.
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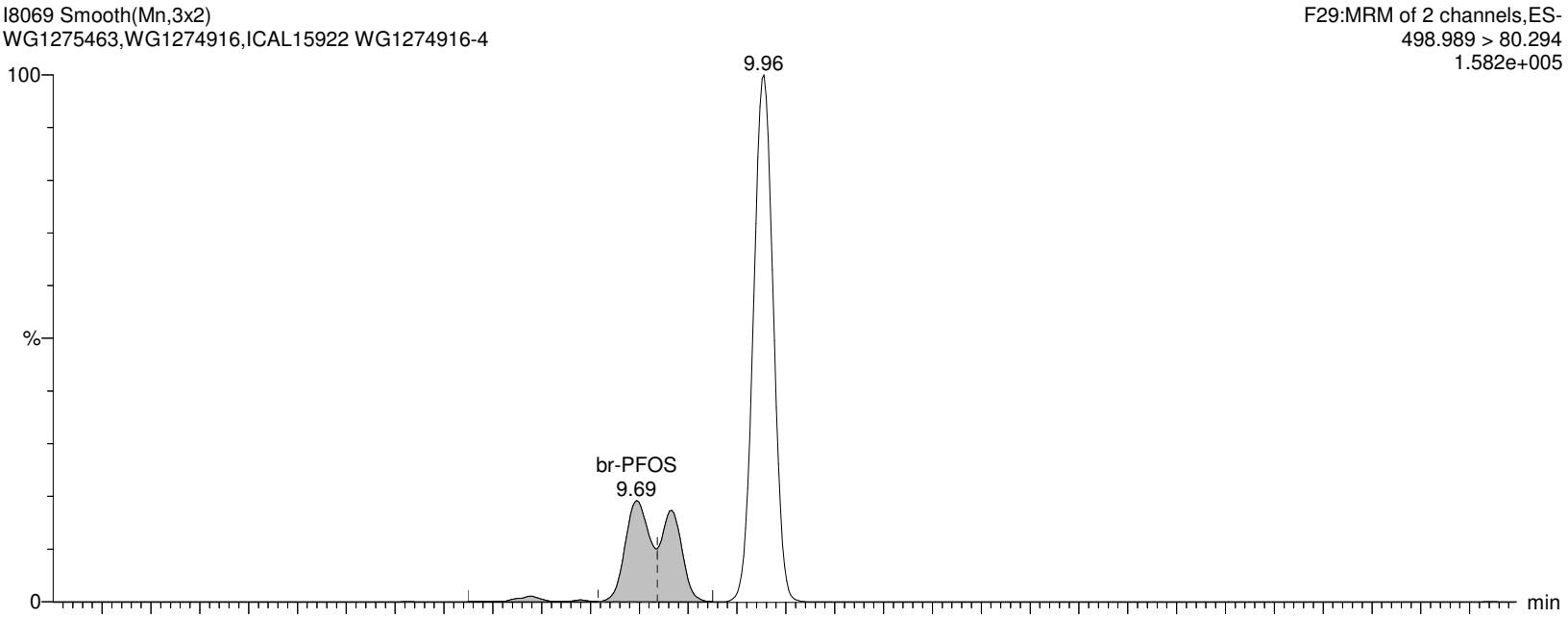


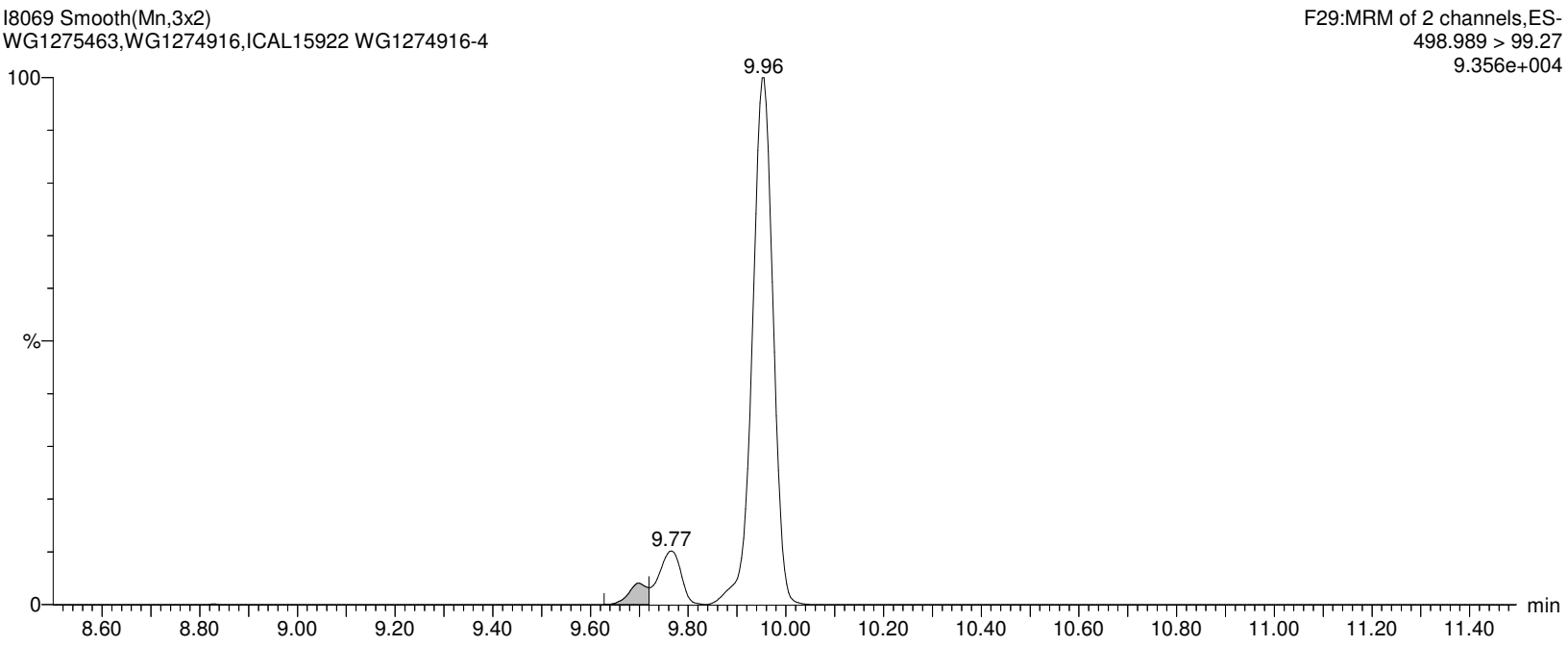
all concentration units in (ng/mL)

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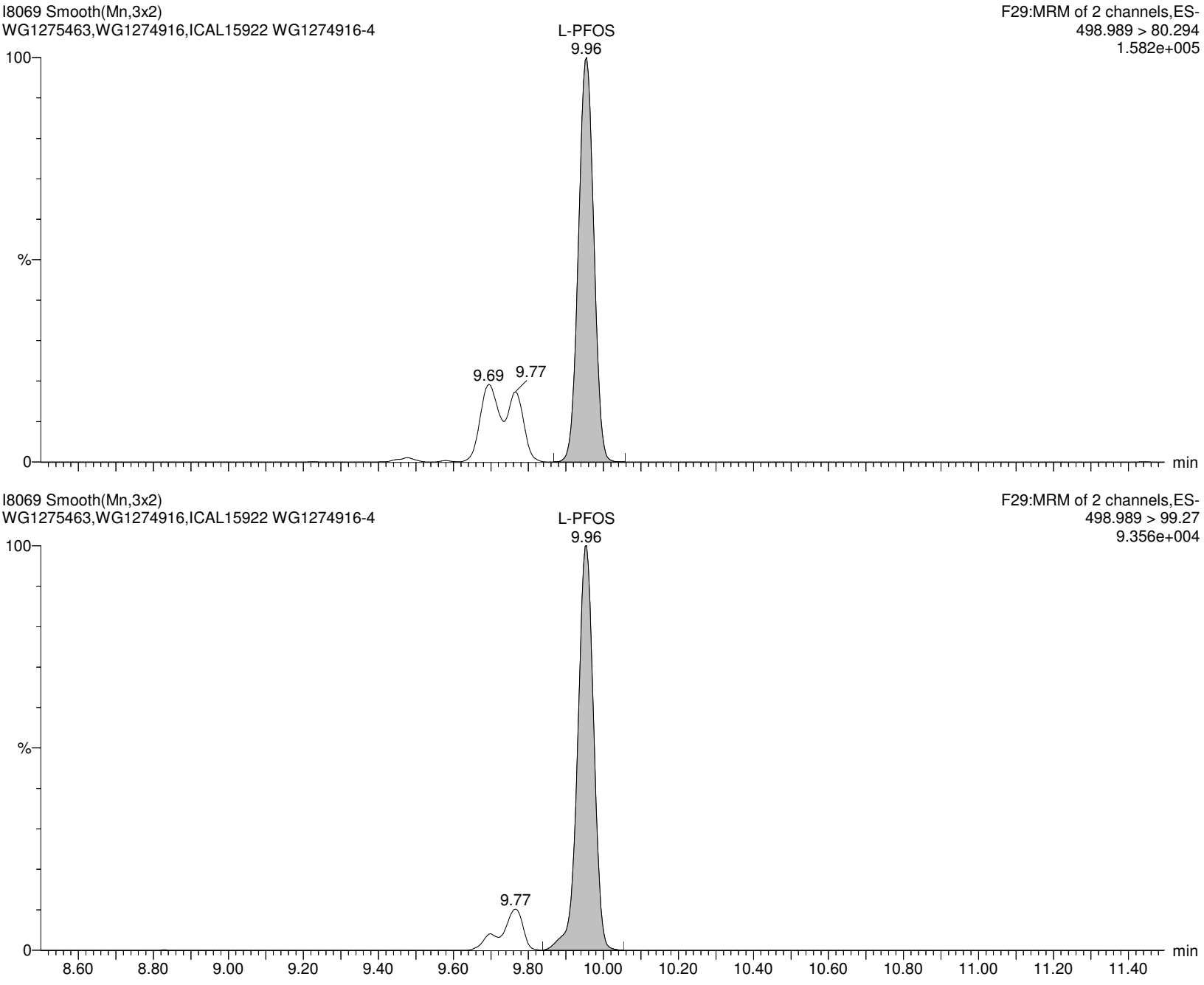


all concentration units in (ng/mL)

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L-PFOS

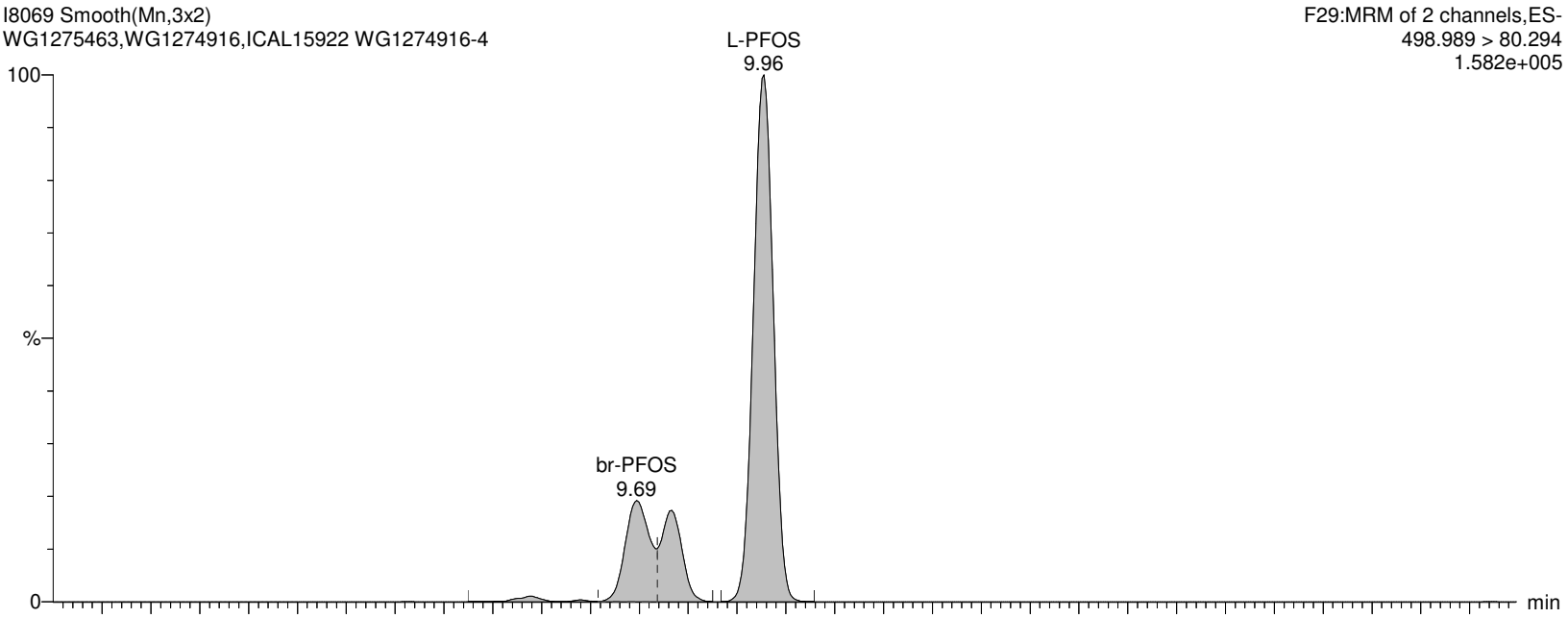


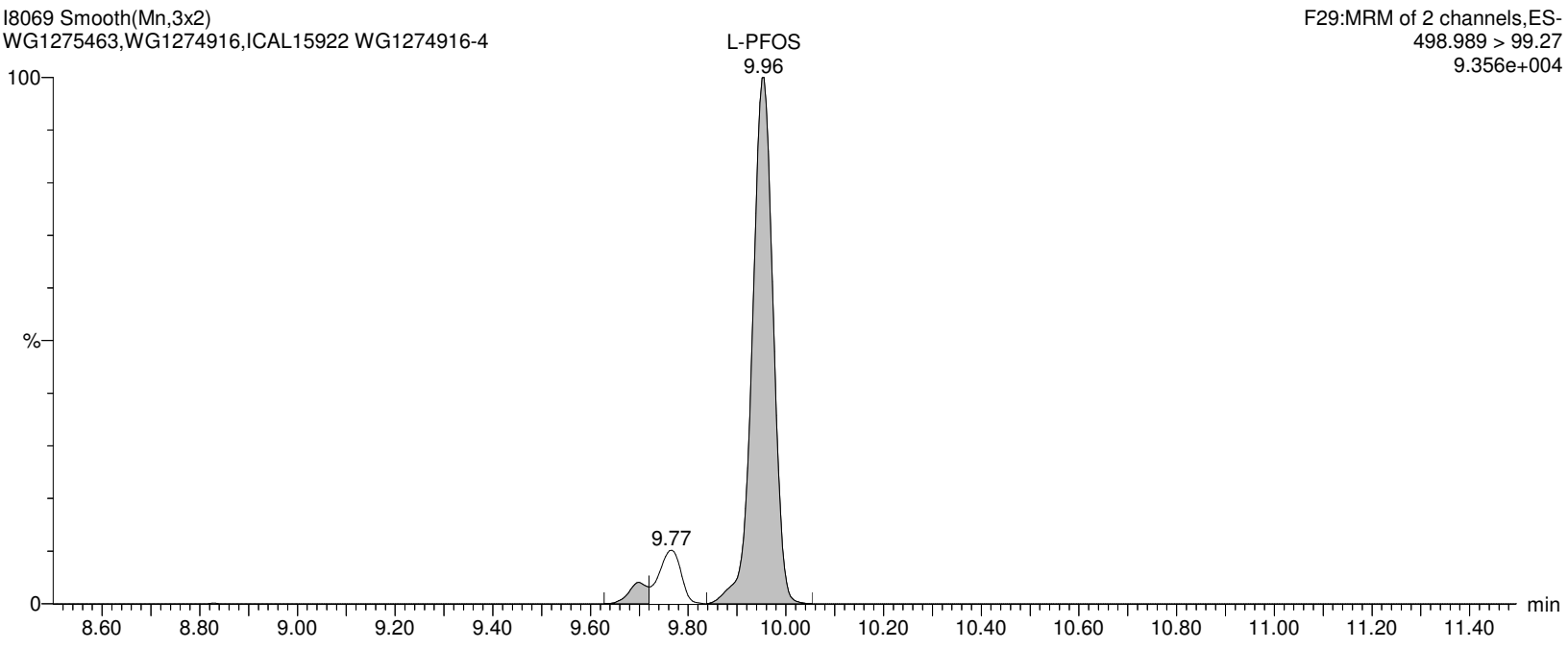
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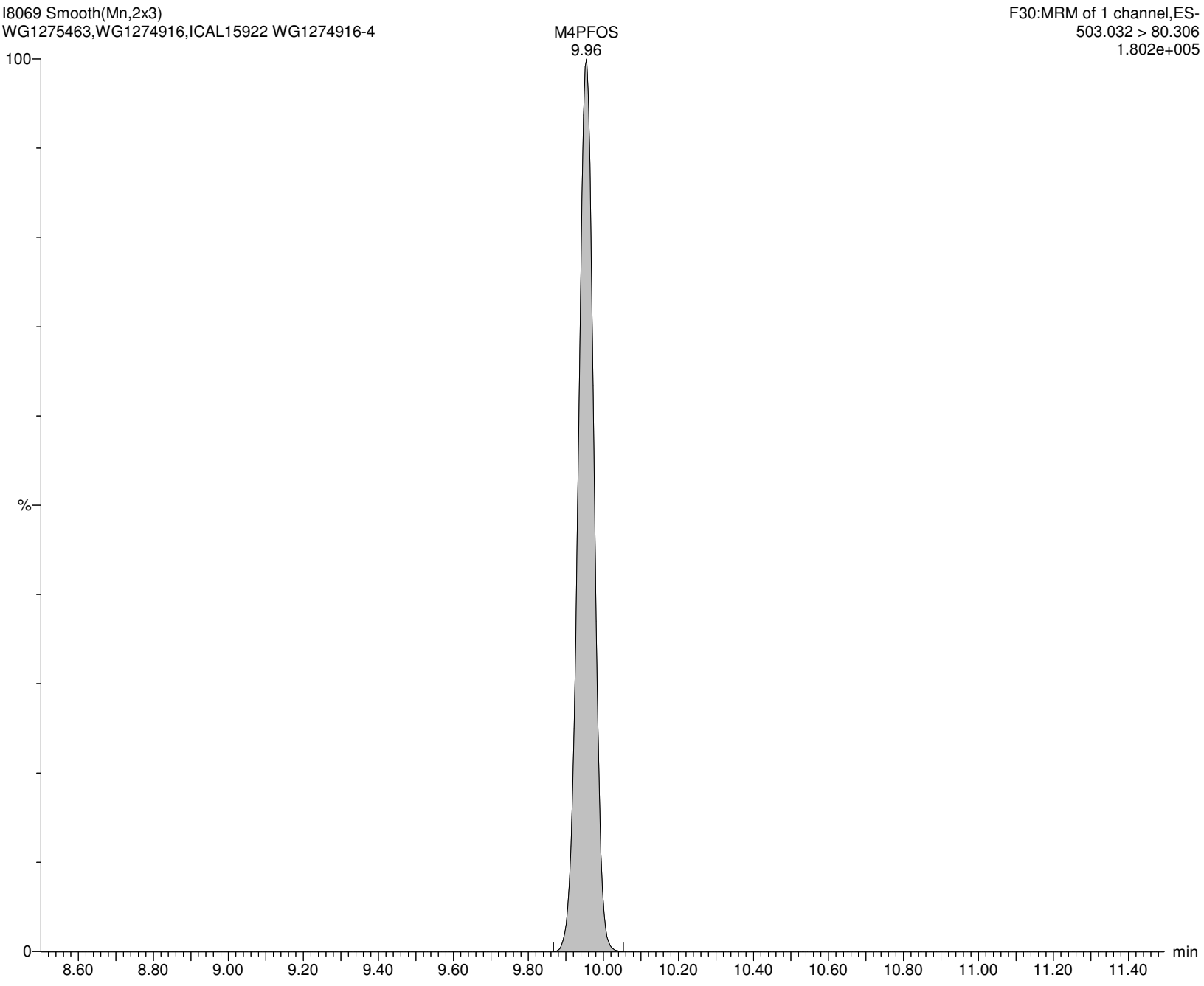


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M4PFOS

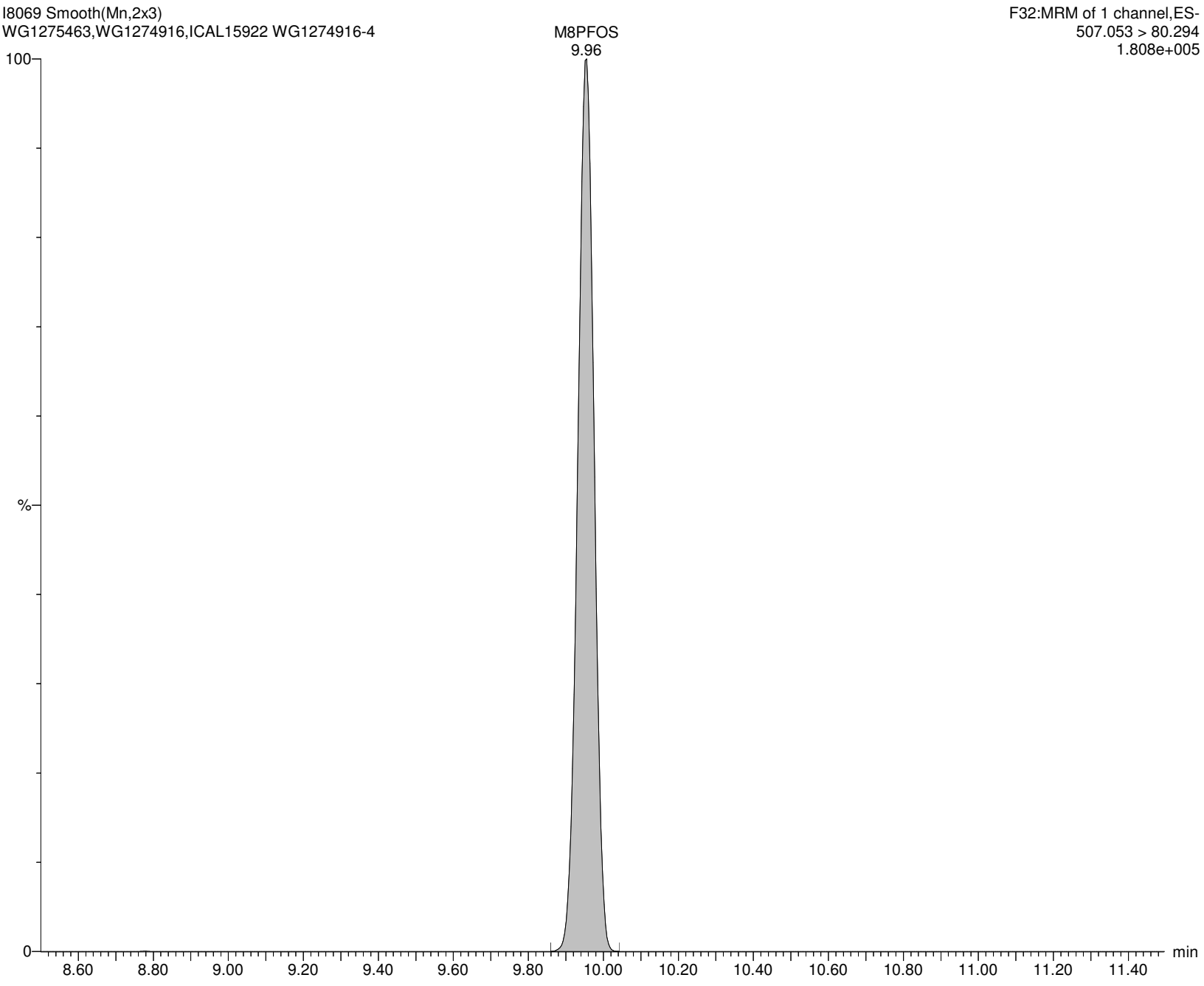


all concentration units in (ng/mL)

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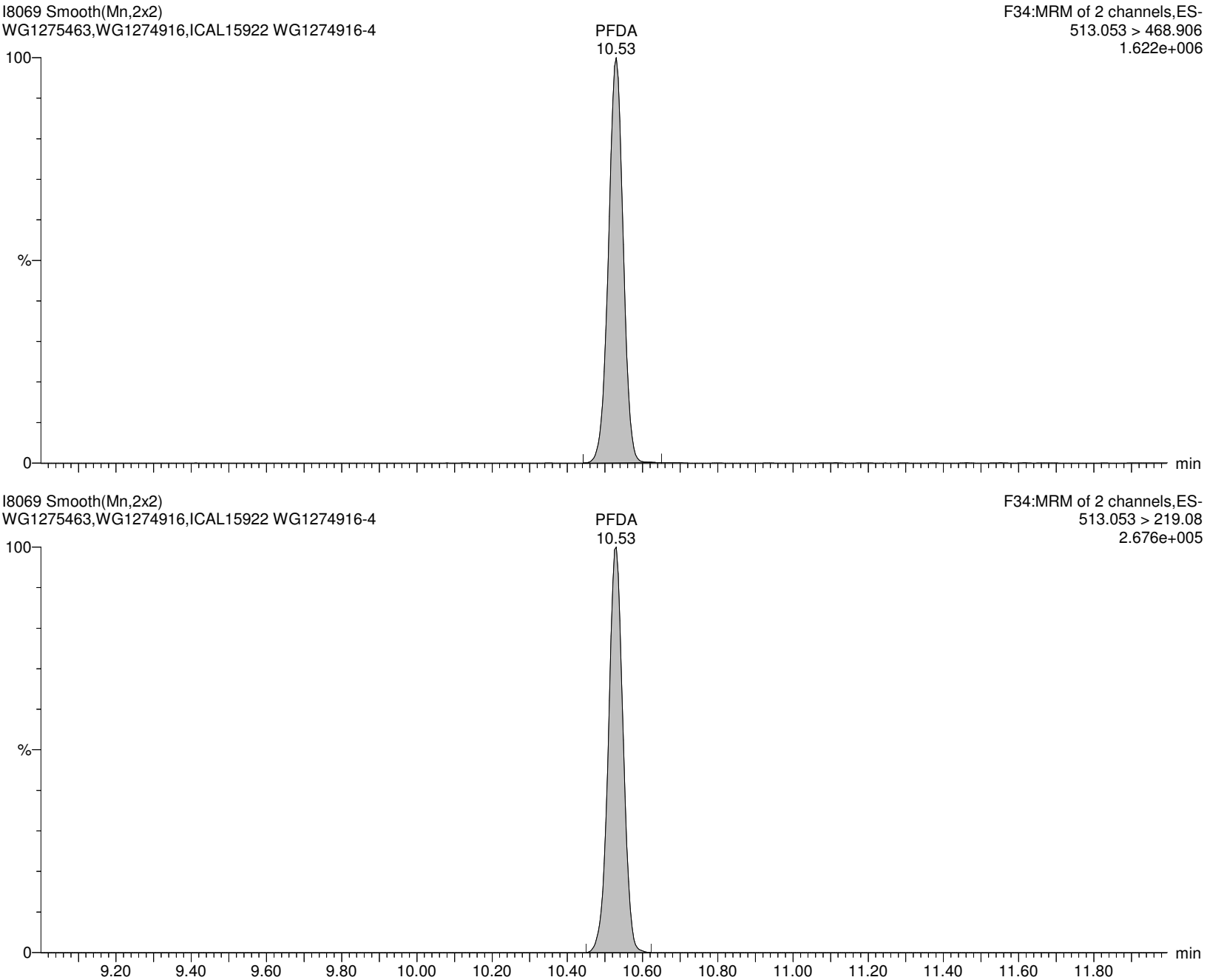


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
Last Altered: Thursday, August 22, 2019 13:45:42 Eastern Daylight Time
Printed: Thursday, August 22, 2019 13:49:31 Eastern Daylight Time

Name: I8069
ID: WG1274916-4
Date: 22-Aug-2019
Time: 12:33:50
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:C,1
Instrument: XEVO-TQSmicro#QEB0050
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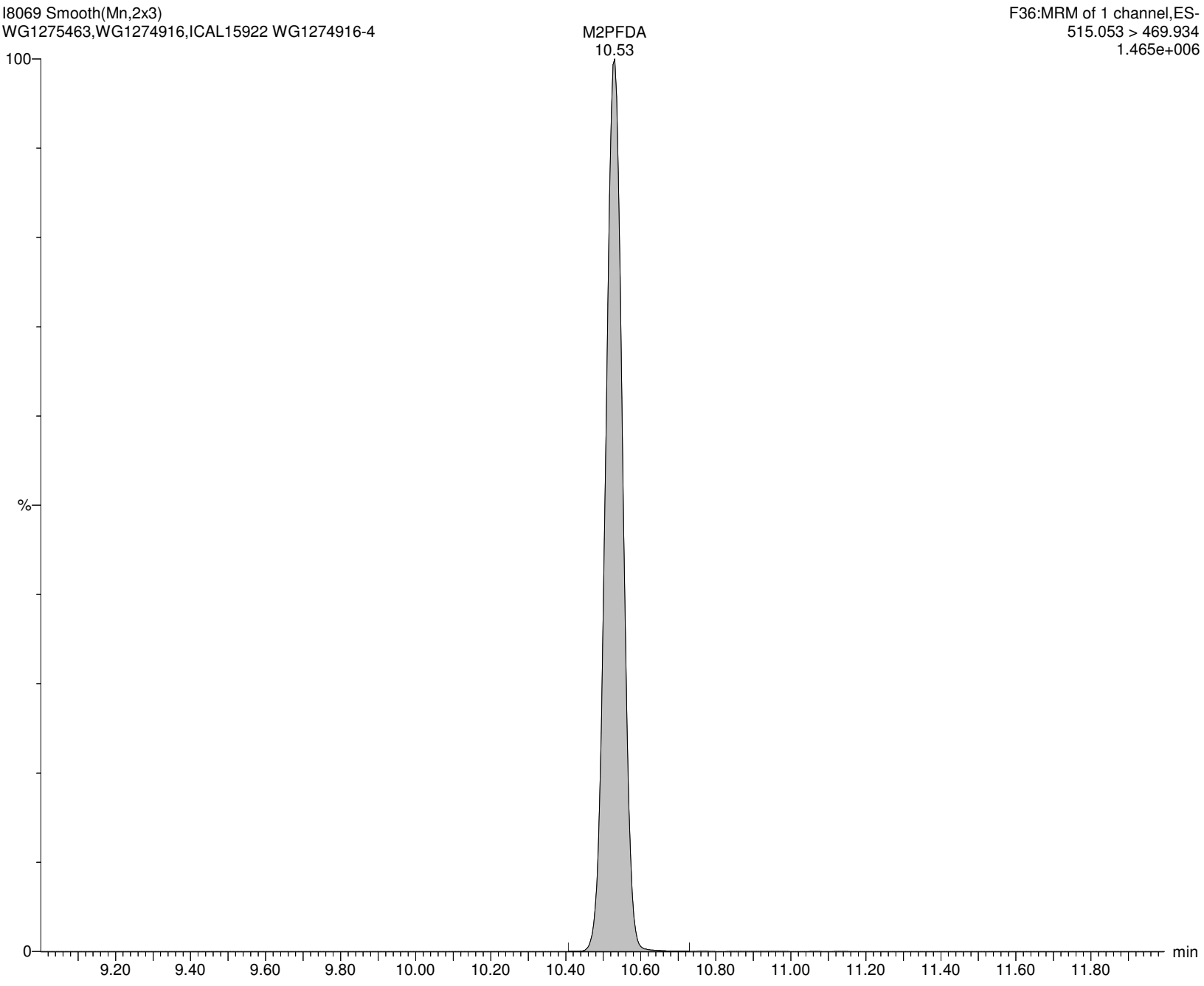


all concentration units in (ng/mL)

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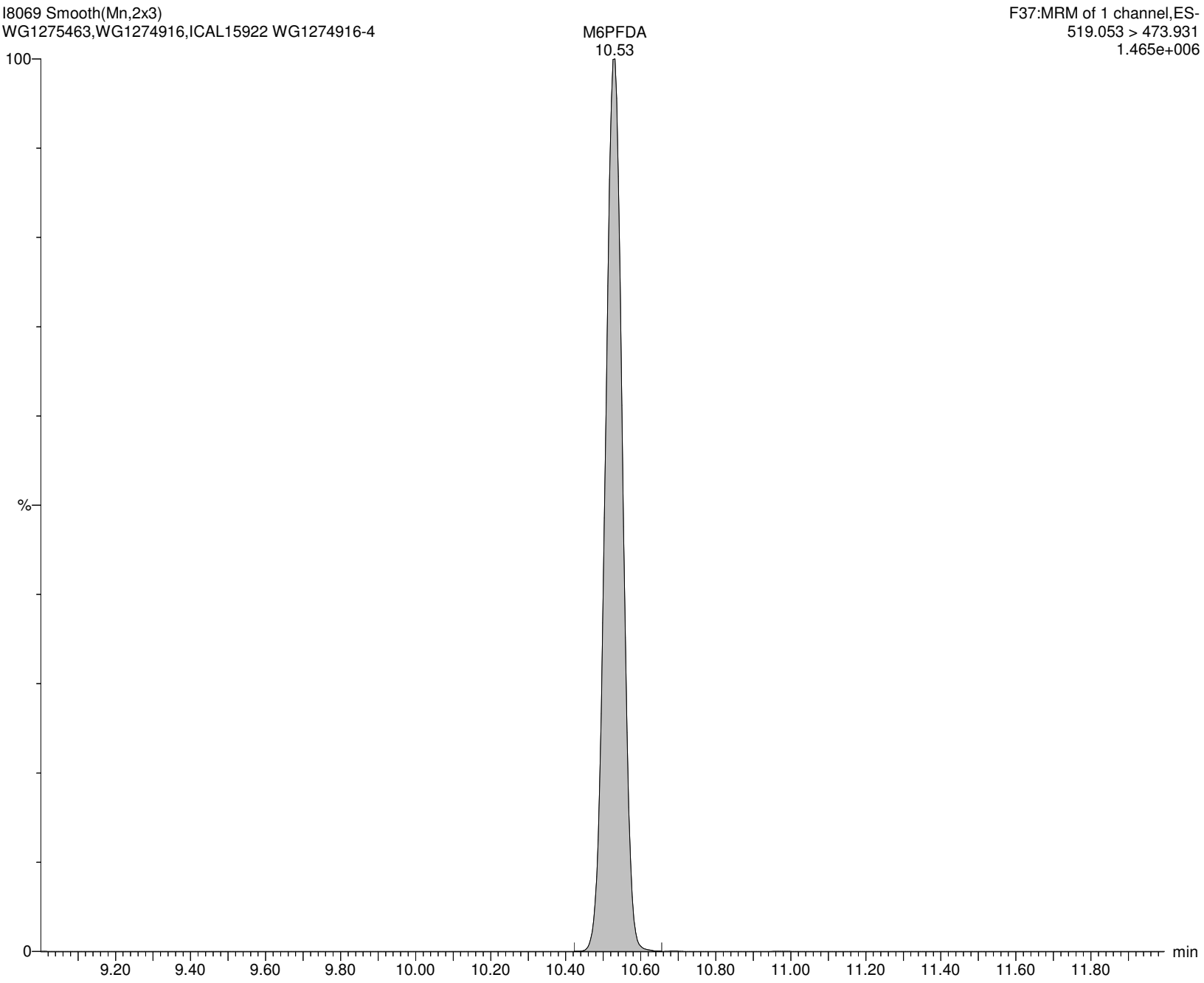


all concentration units in (ng/mL)

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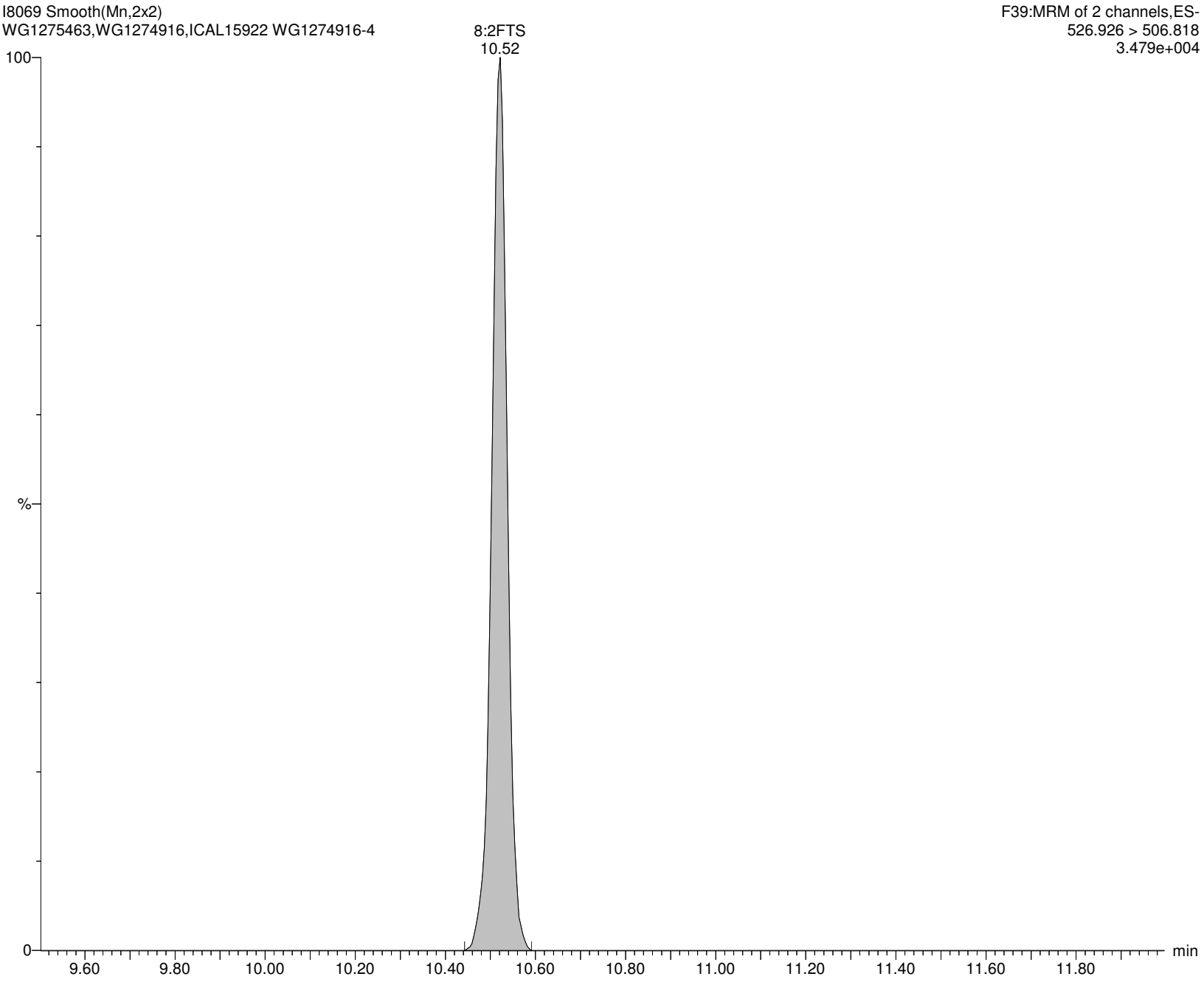


all concentration units in (ng/mL)

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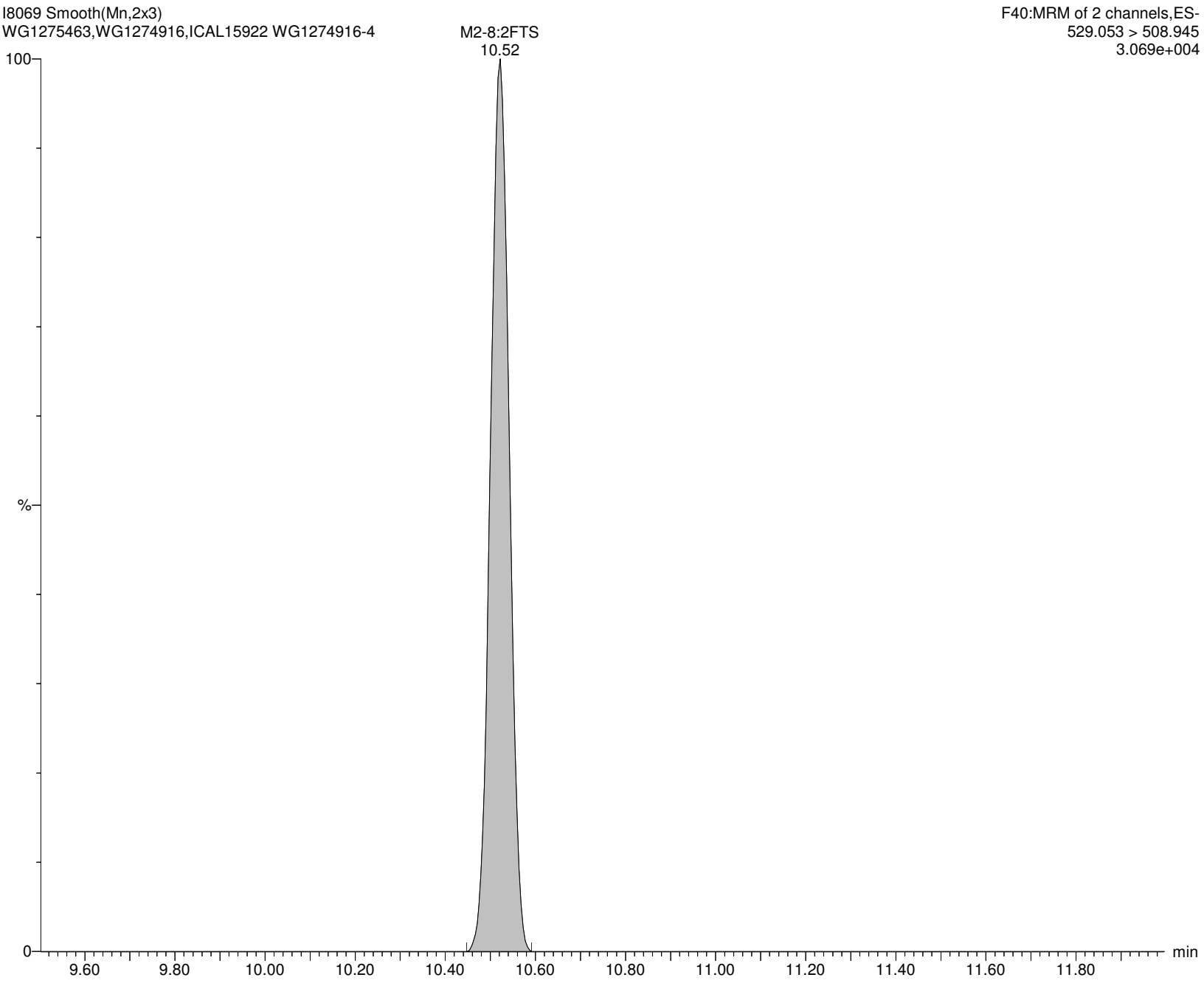


all concentration units in (ng/mL)

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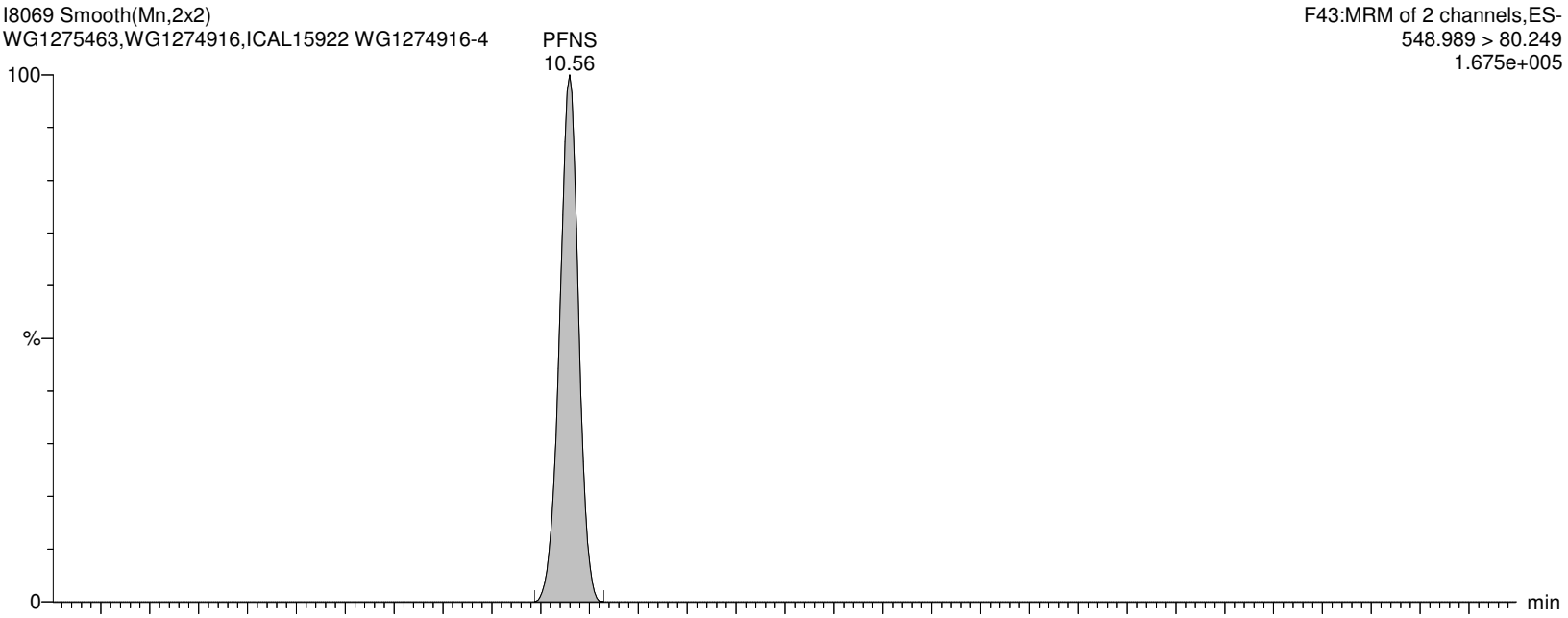


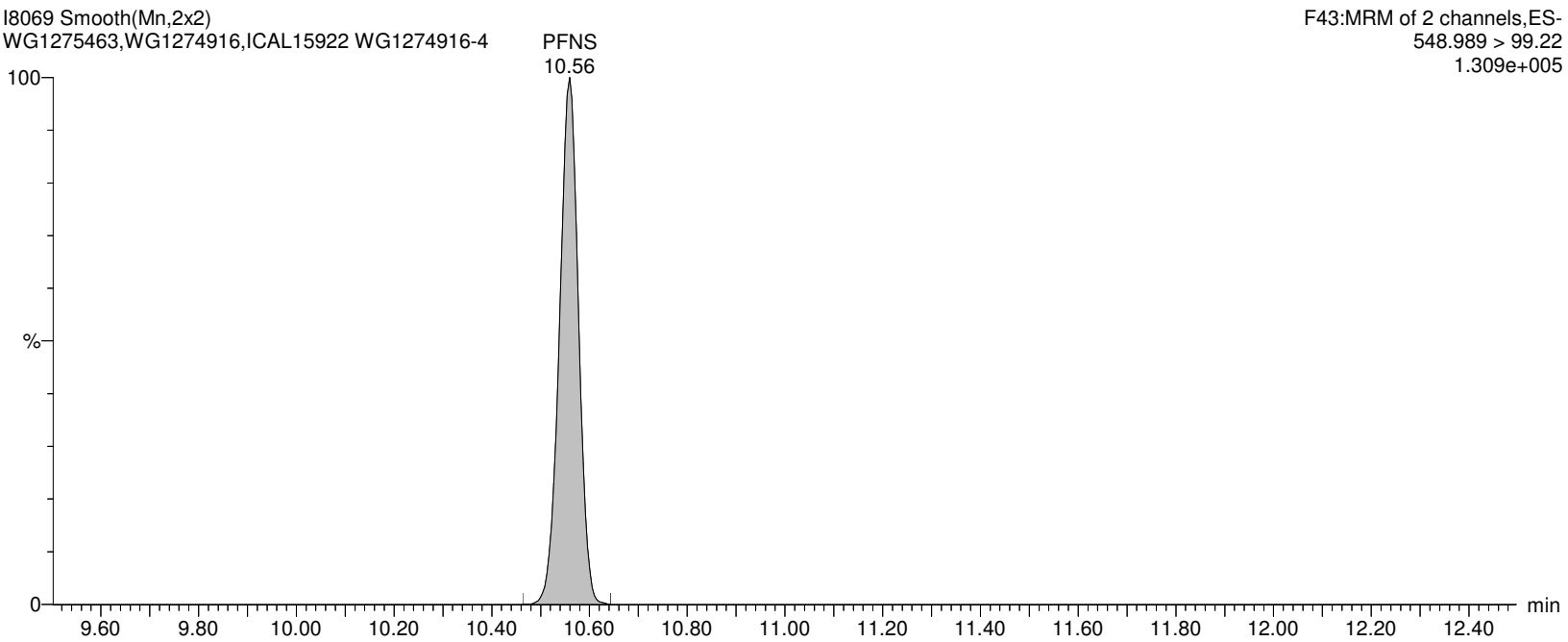
all concentration units in (ng/mL)

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PFNS



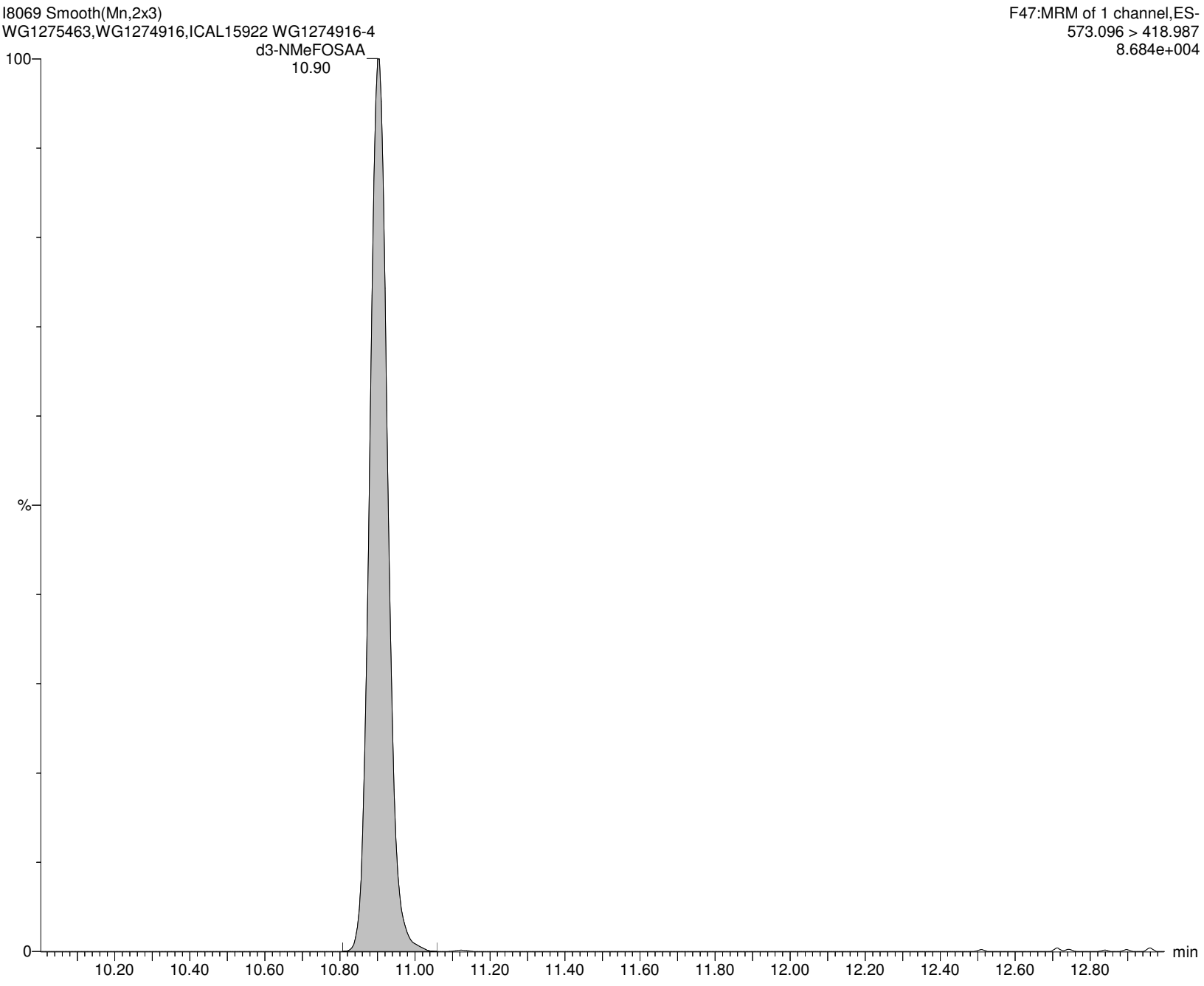


all concentration units in (ng/mL)

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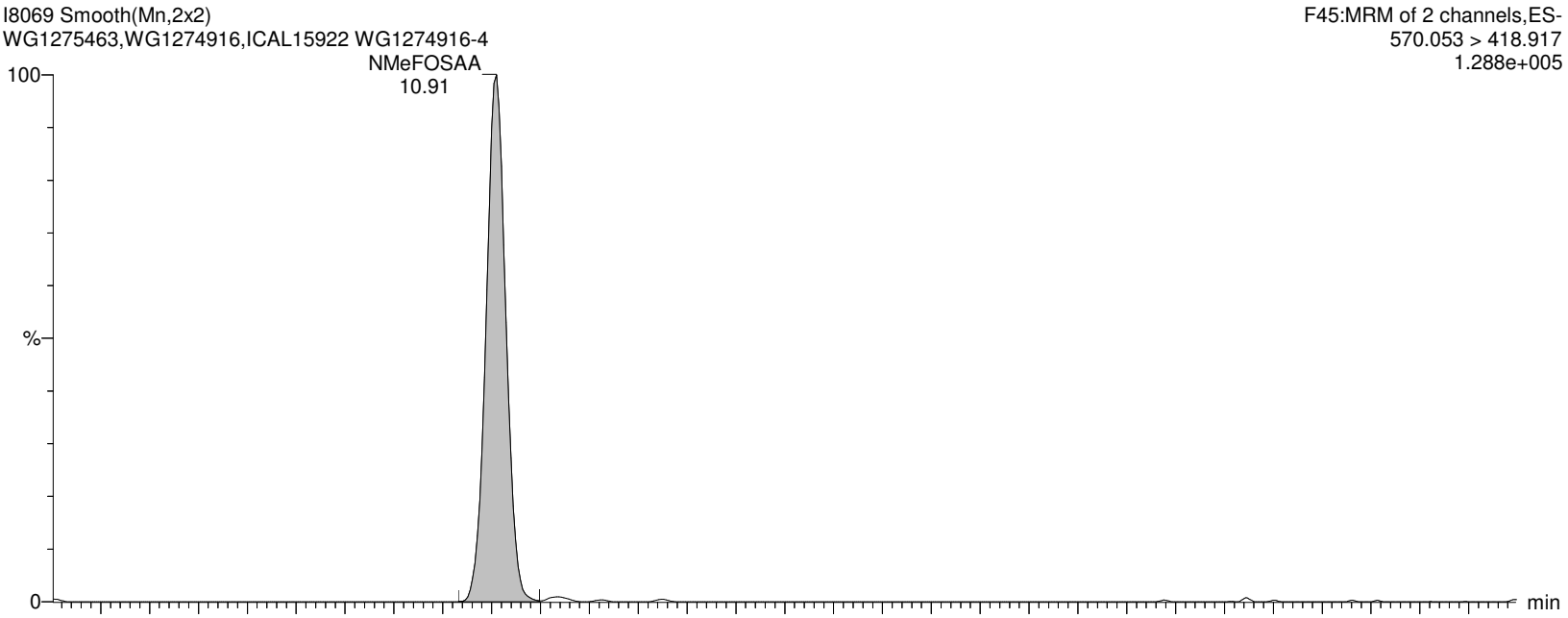


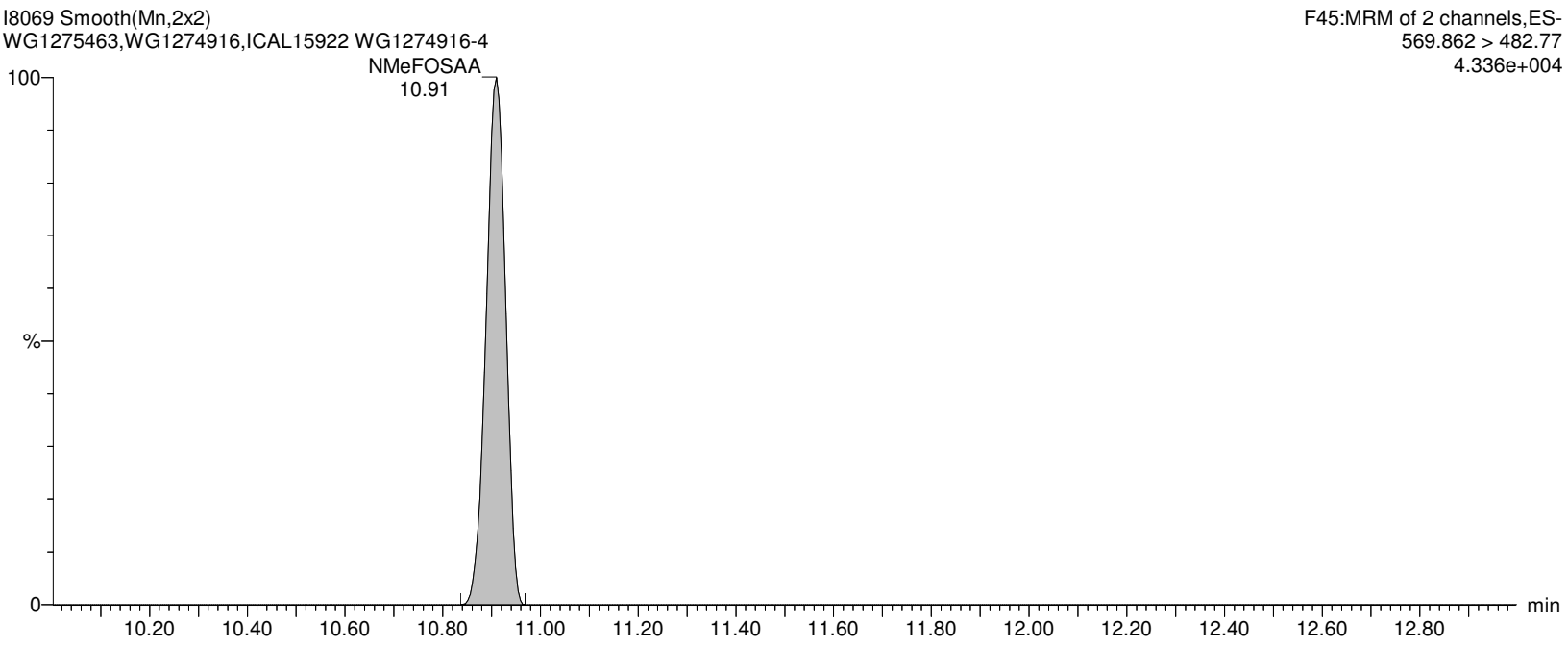
all concentration units in (ng/mL)

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NMeFOSAA



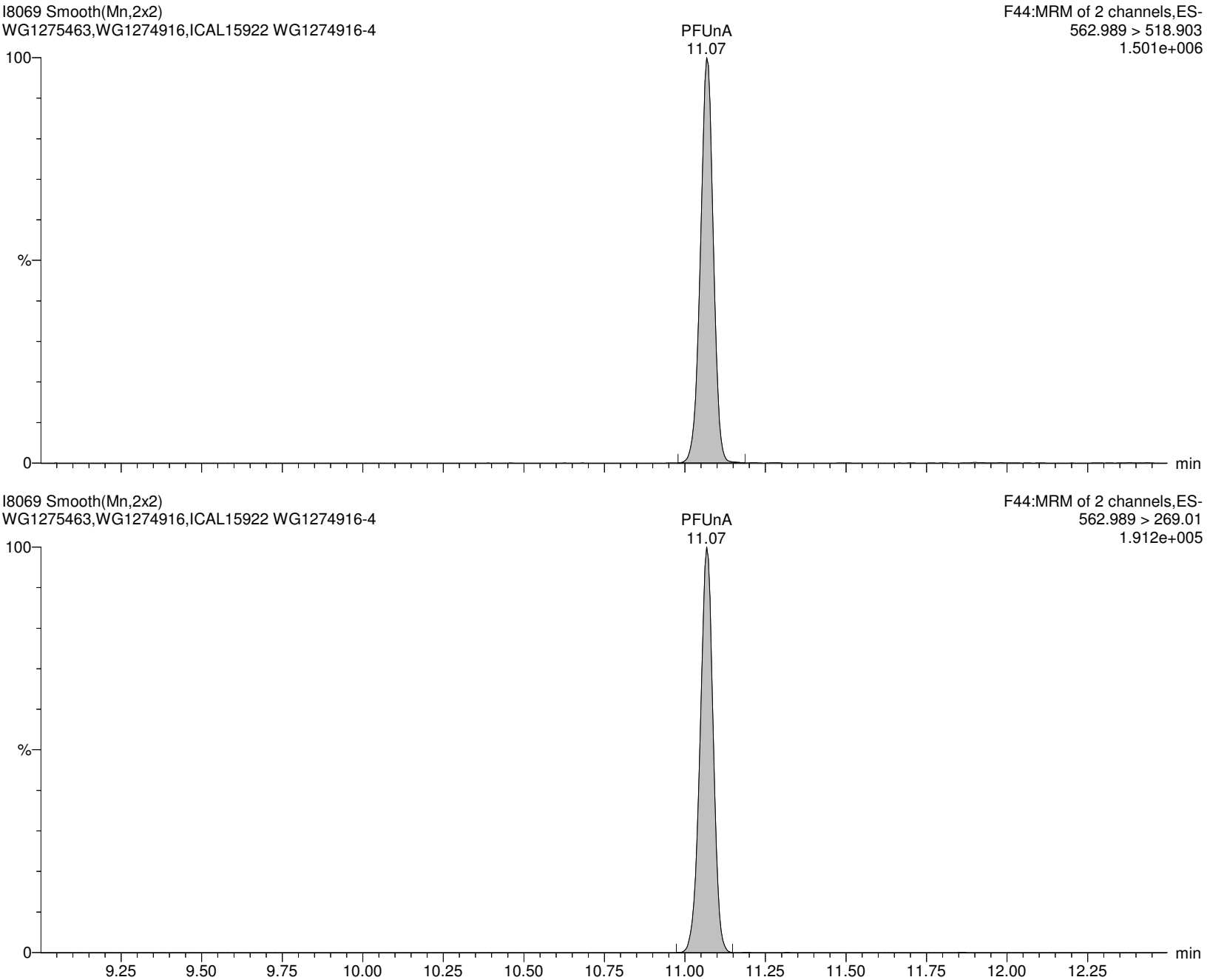


all concentration units in (ng/mL)

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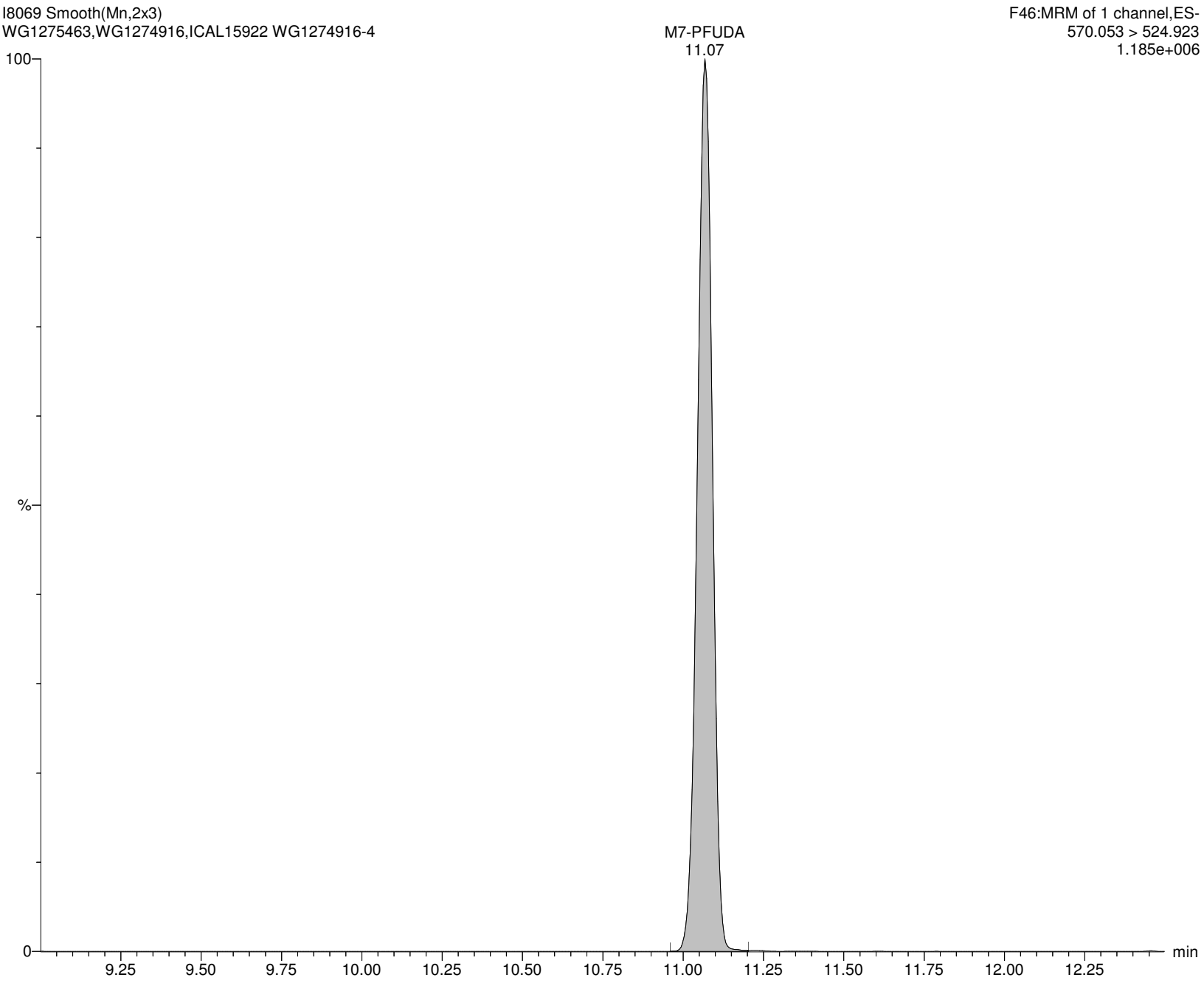


all concentration units in (ng/mL)

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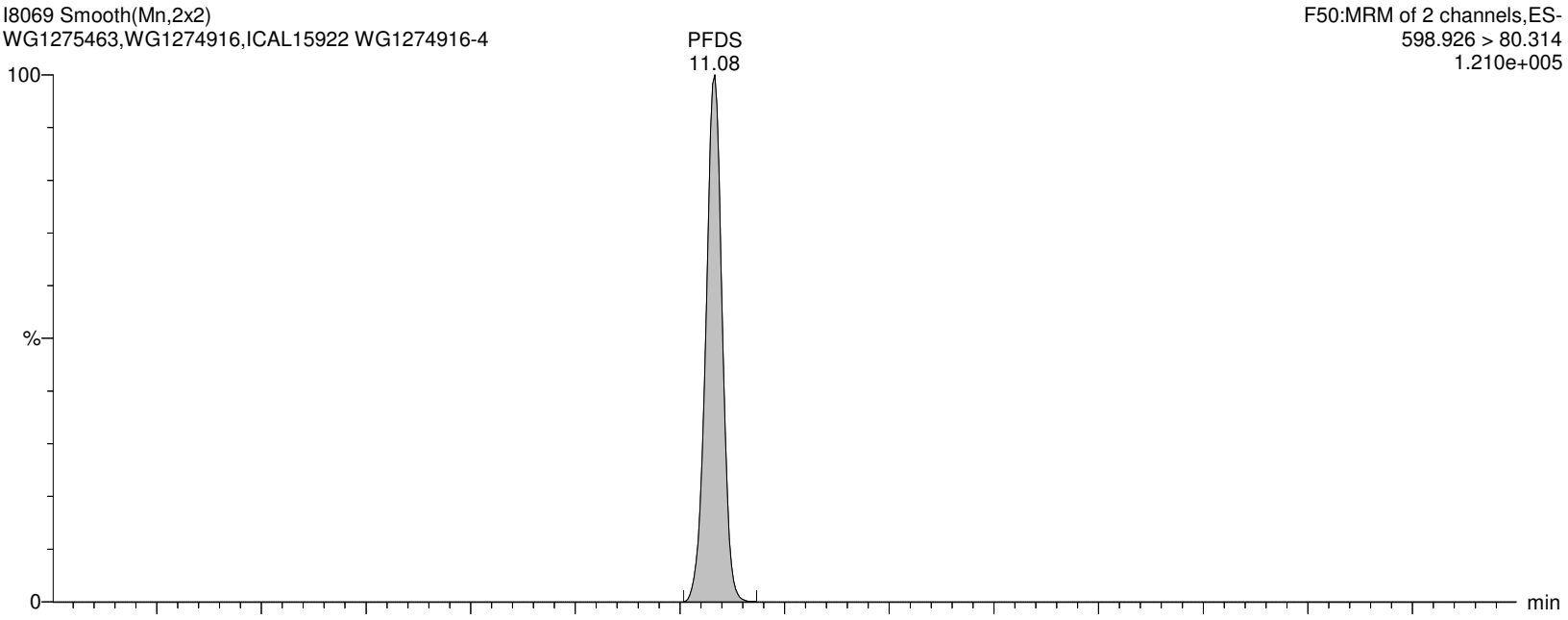


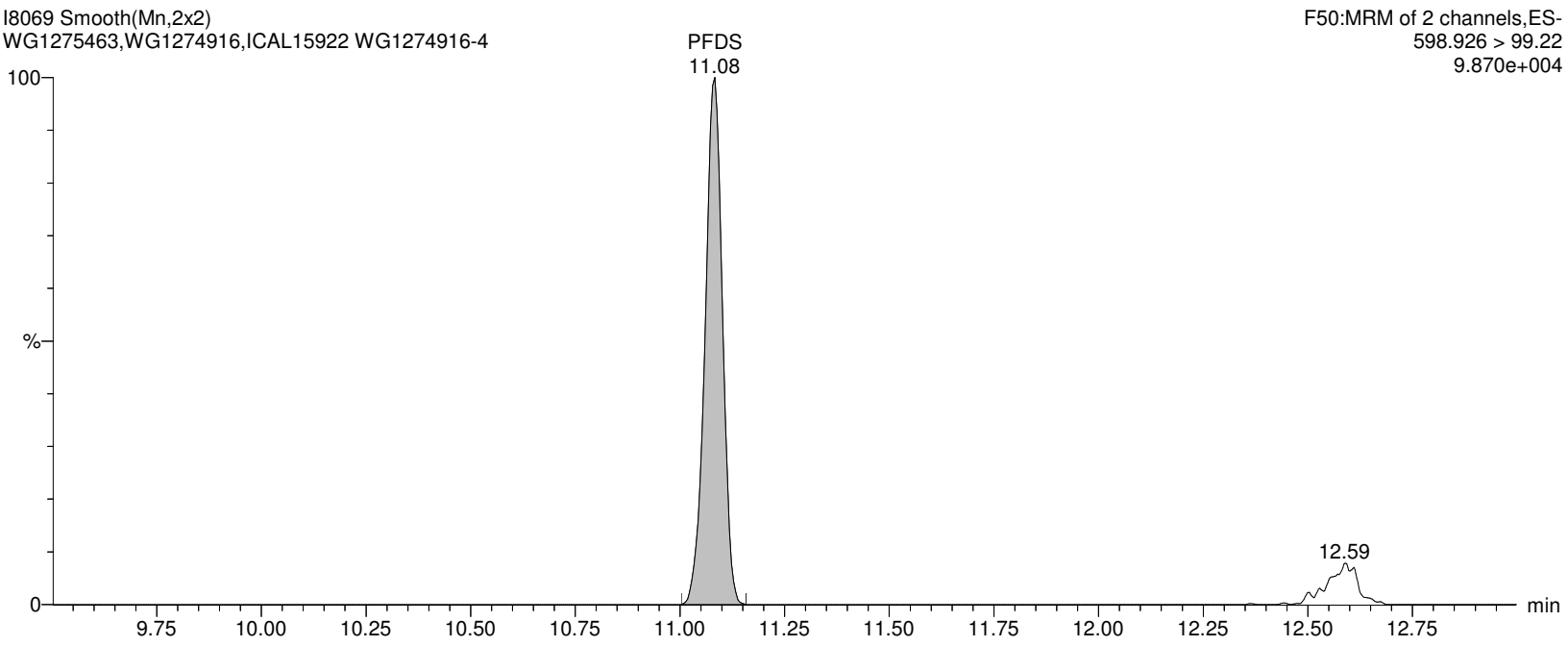
all concentration units in (ng/mL)

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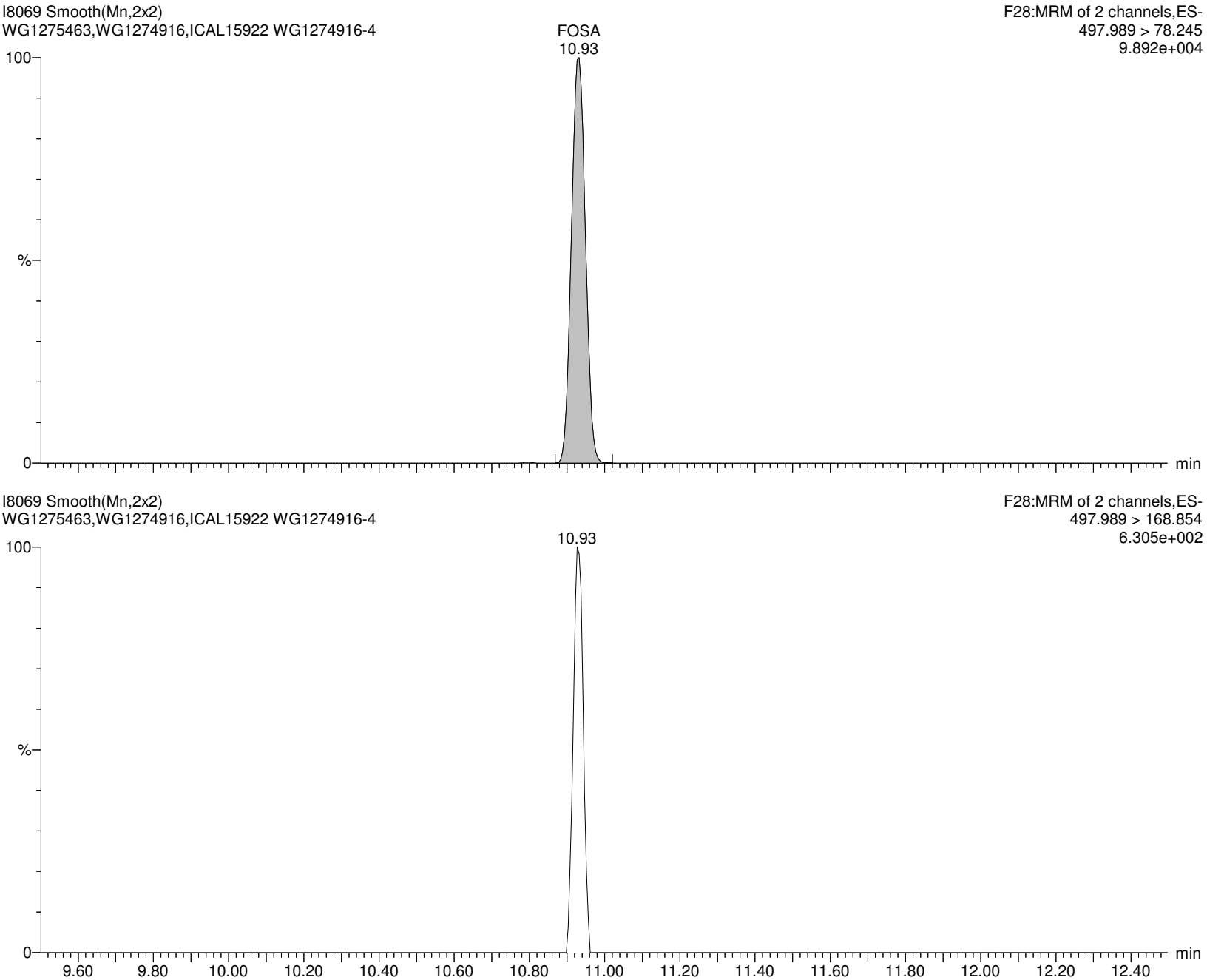


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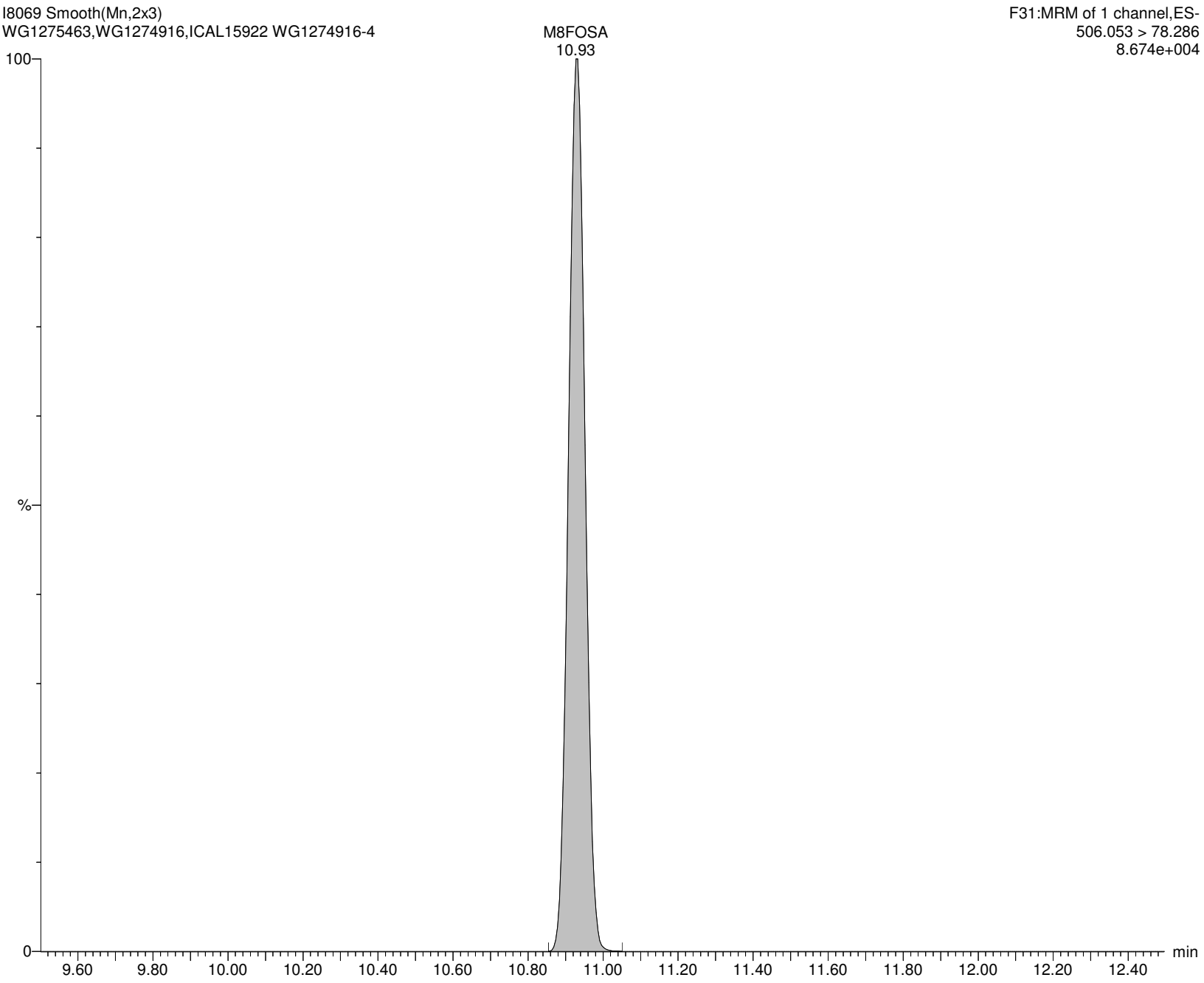


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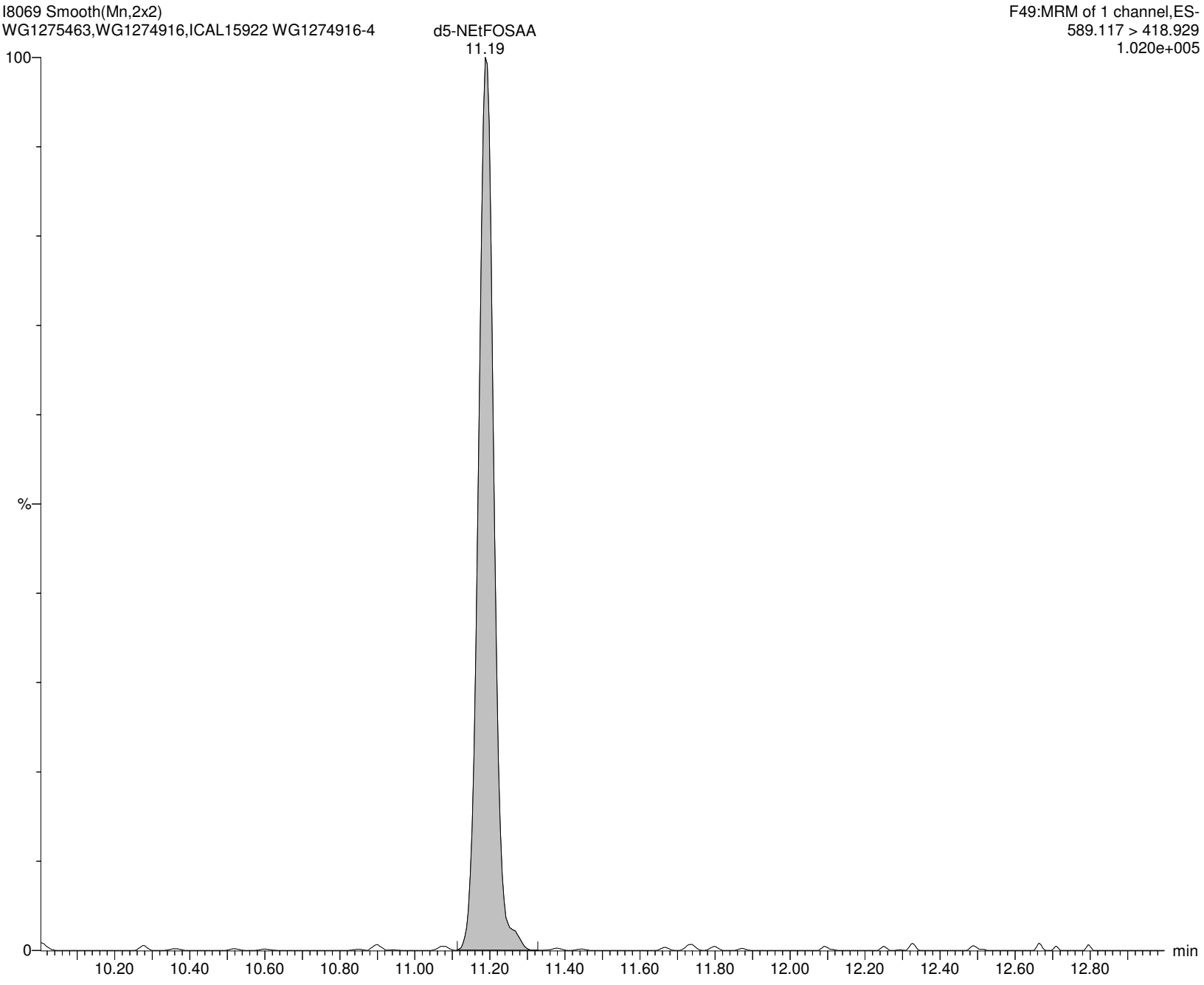


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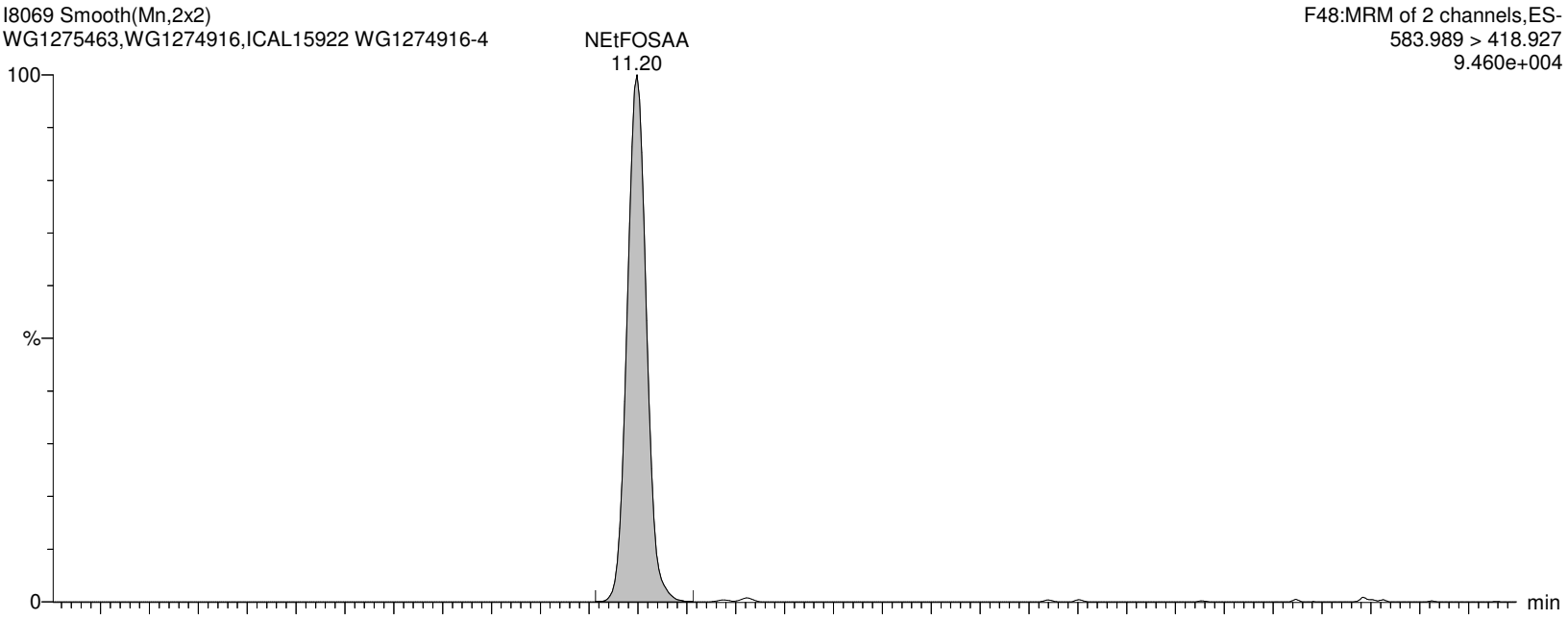


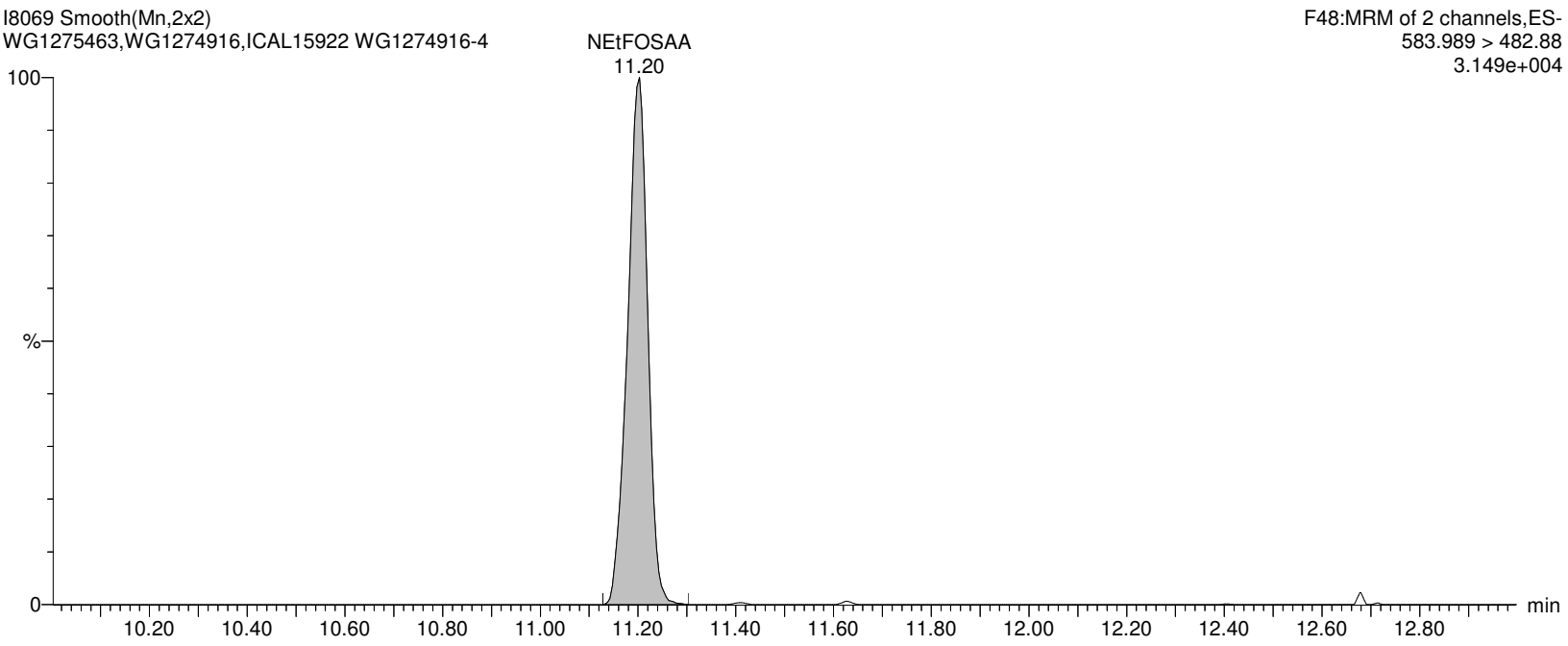
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NEtFOSAA



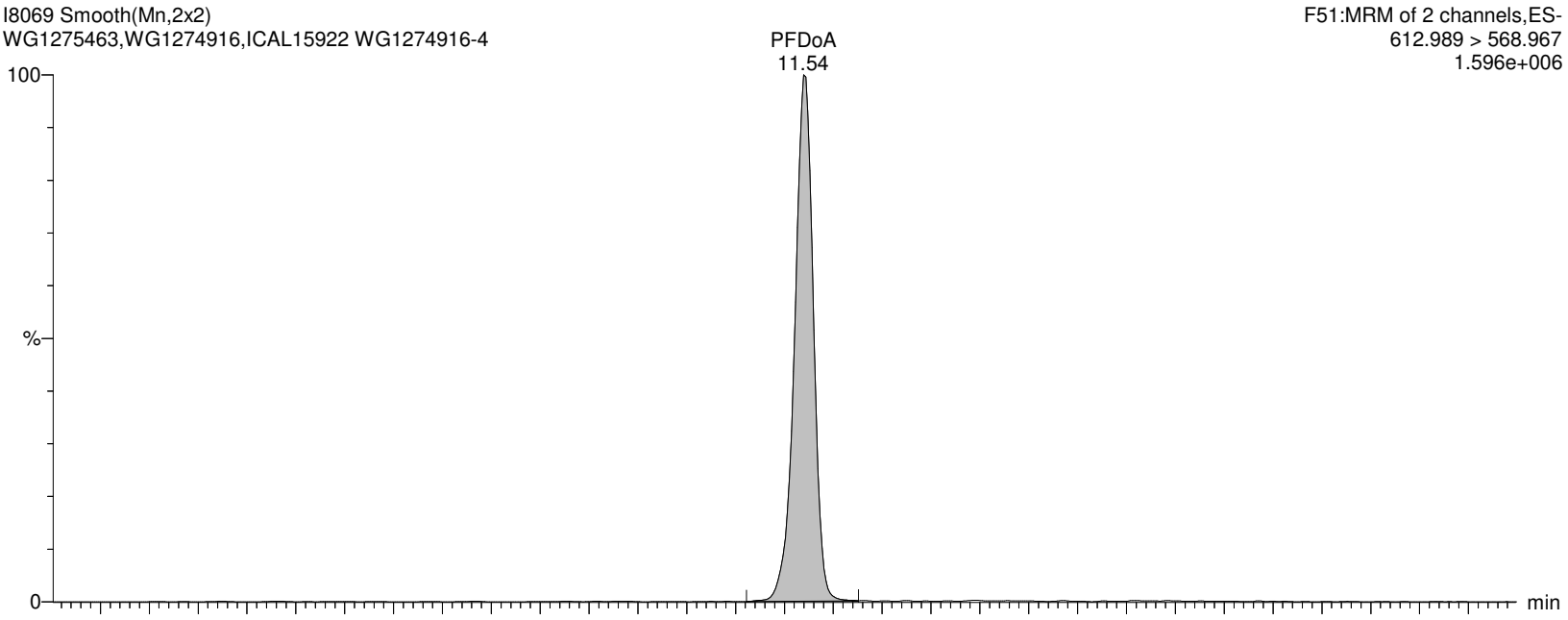


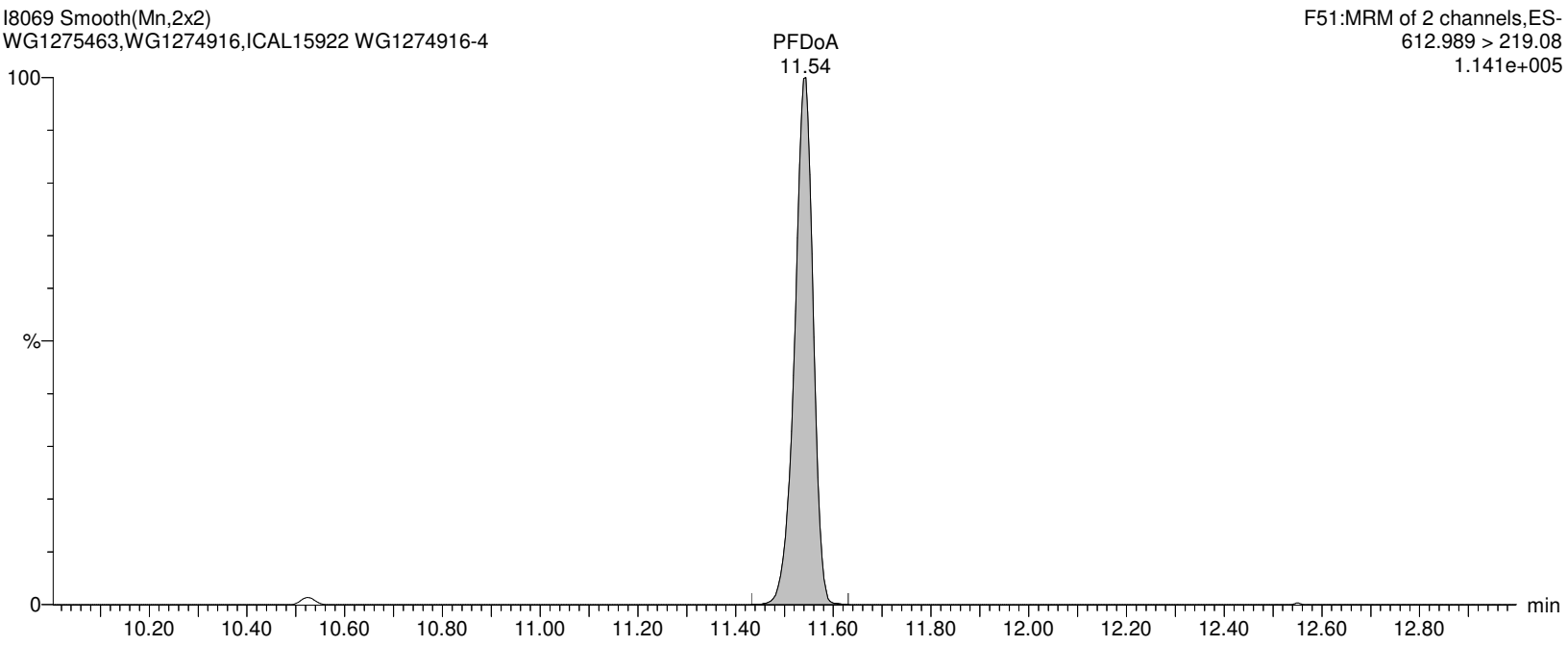
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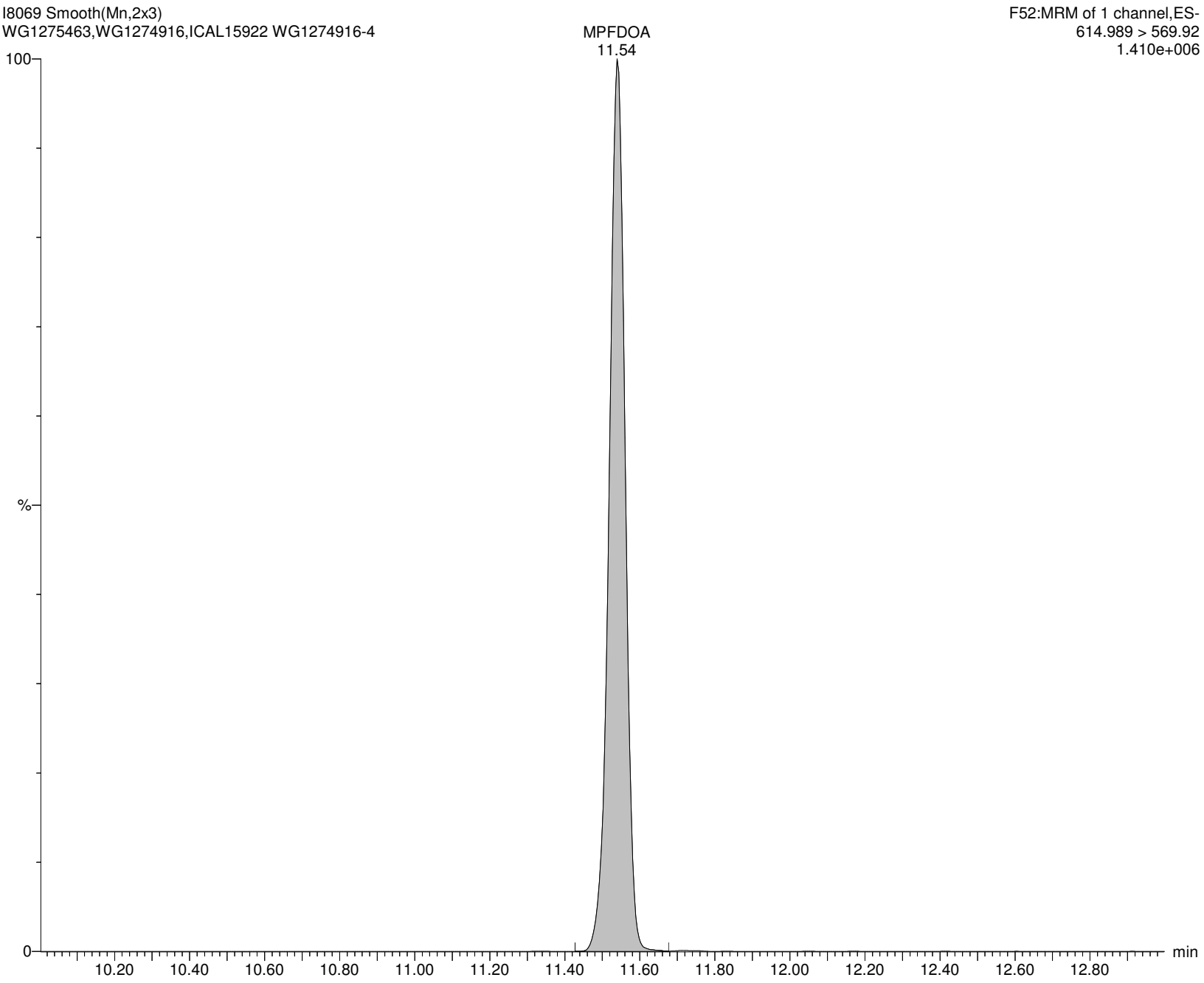


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Tune Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\181009_TUNE.IPR
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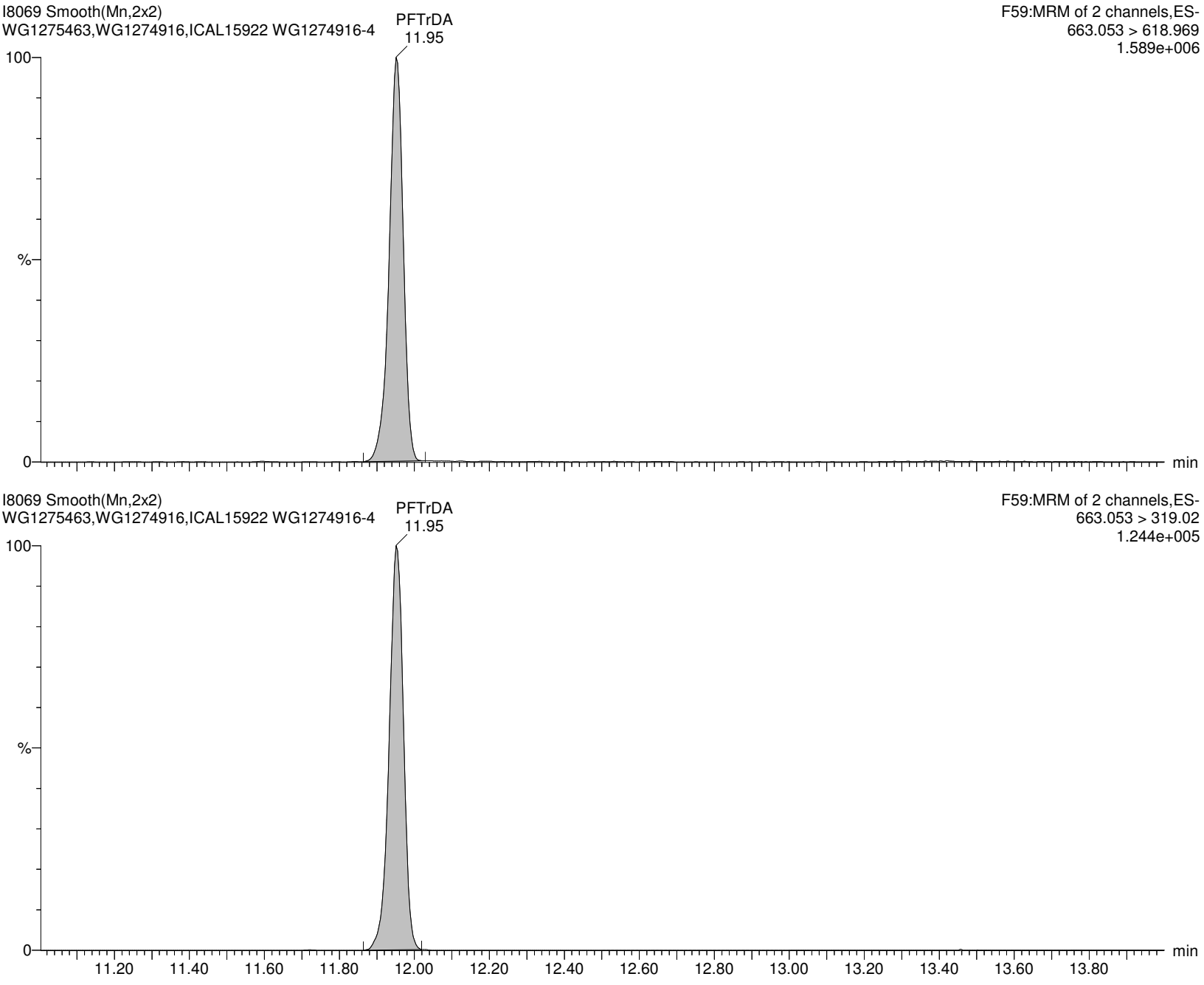


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
Last Altered: Thursday, August 22, 2019 13:45:42 Eastern Daylight Time
Printed: Thursday, August 22, 2019 13:49:31 Eastern Daylight Time

Name: I8069
ID: WG1274916-4
Date: 22-Aug-2019
Time: 12:33:50
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:C,1
Instrument: XEVO-TQSmicro#QEB0050
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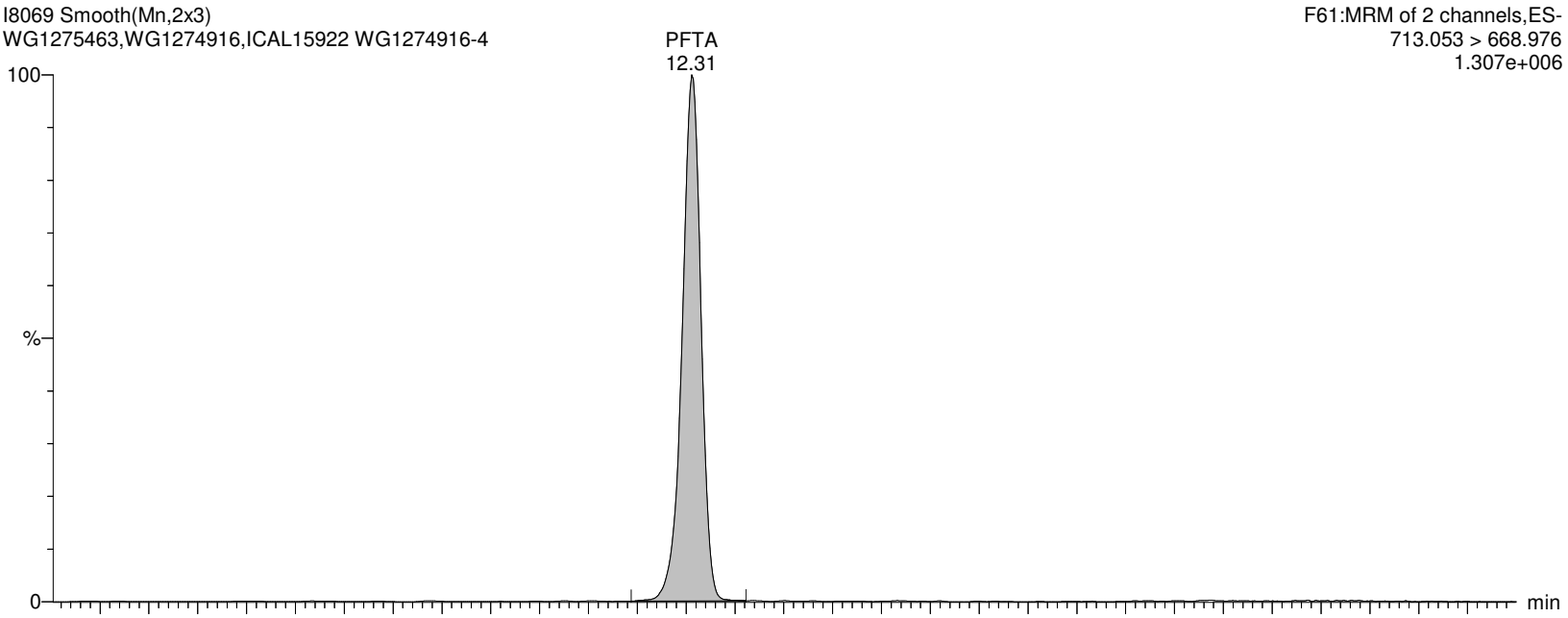


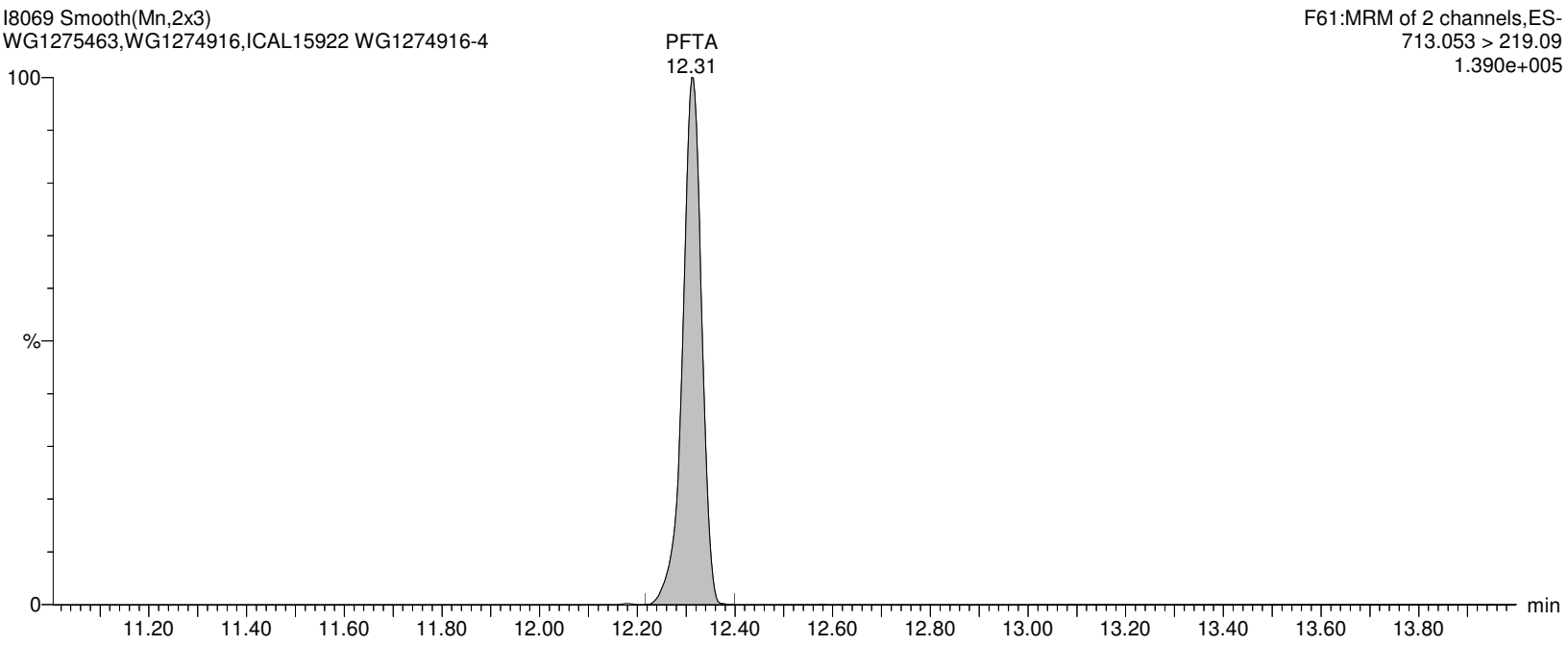
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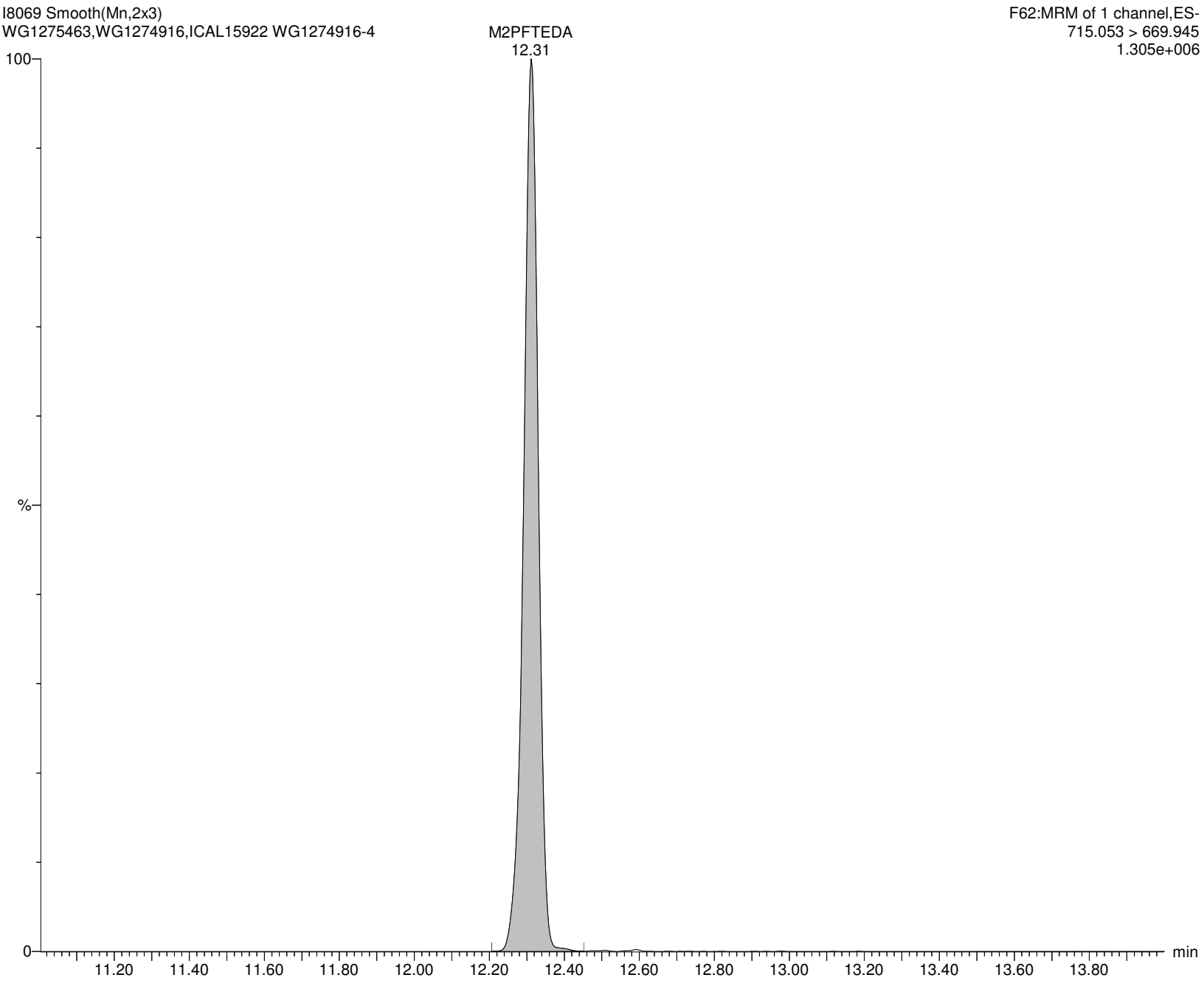


all concentration units in (ng/mL)

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M2PFTEDA



all concentration units in (ng/mL)

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Calibration: C:\MassLynx\Data\2019\190822_537ISO.PRO\CurveDB\190702_ISO_ICAL.cdb 02 Jul 2019 11:07:37

ID: WG1274916-5
Name: I8070
Date: 22-Aug-2019
Time: 12:50:24
Description: WG1275463,WG1274916,ICAL15922
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
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Tune Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
1	PFBA	375-22-4	2.08	212.926 > 169.111	31342		11.358		na	
2	M3PFBA	INT STD	2.08	215.926 > 172.122	26999		6.981		na	69.8
3	MPFBA	INT STD	2.08	216.926 > 172.137	30327		10.017		na	100.2
4	PFPeA	2706-90-3	4.98	262.926 > 219.002	57941		9.761		na	
5	M5PFPEA	INT STD	4.98	267.989 > 223.081	57847		13.498		na	135.0
6	PFBS	375-73-5	5.64	298.926 > 79.923	13155		8.025	1.88	YES	
7	M3PFBS	INT STD	5.64	301.989 > 80.254	11017		9.209		na	92.1
8	4:2FTS	757124-72-4	6.82	326.926 > 306.957	6963		9.943	2.19	NO	
9	M2-4:2FTS	INT STD	6.83	329.117 > 309.079	6919		9.651		na	96.5
10	PFHxA	307-24-4	6.90	312.989 > 269.028	80867		10.688	18.09	NO	
11	M5PFHxA	INT STD	6.90	317.989 > 273.045	76542		8.973		na	89.7
12	PFPeS	2706-91-4	7.23	348.926 > 80.251	10933		8.713	1.90	NO	
13	PFHpA	375-85-9	8.20	362.926 > 319.014	109642		11.181	5.78	NO	
14	M4PFHpA	INT STD	8.20	366.926 > 321.979	98348		9.049		na	90.5
15	br-PFHxS	355-46-4	8.13	398.926 > 80.295	1630	M5	2.374	2.93	NO	
16	L-PFHxS	355-46-4	8.36	398.926 > 80.295	7783		8.162	1.36	YES	
17	PFHxS	355-46-4		398.926 > 80.295	9412		10.536		na	
18	M3PFHxS	INT STD	8.36	401.926 > 80.317	7040		9.494		na	94.9
19	br-PFOA	335-67-1	8.93	412.989 > 368.9	5718	M5	0.571	48.48	YES	
20	L-PFOA	335-67-1	9.15	412.989 > 368.9	129283		12.910	9.30	NO	
21	M2PFOA	INT STD	9.15	415.032 > 369.968	101181		11.097		na	111.0
22	PFOA	335-67-1		412.989 > 368.9	135001		13.481		na	
23	M8PFOA	INT STD	9.15	420.989 > 375.979	100894		10.036		na	100.4
24	6:2FTS	27619-97-2	9.11	426.989 > 406.921	2903		9.416	7.57	NO	
25	M2-6:2FTS	INT STD	9.11	428.989 > 408.917	3920		6.067		na	60.7
26	PFHpS	375-92-8	9.25	448.926 > 80.257	5801		8.867	0.91	NO	
27	PFNA	375-95-1	9.91	462.989 > 418.931	87277		10.286	4.23	NO	
28	M9PFNA	INT STD	9.91	472.053 > 426.947	93524		10.046		na	100.5
29	br-PFOS	1763-23-1	9.77	498.989 > 80.294	3064	M5	3.002	6.91	NO	
30	L-PFOS	1763-23-1	9.96	498.989 > 80.294	6697		7.125	1.49	NO	
31	PFOS	1763-23-1		498.989 > 80.294	9761		10.126		na	
32	M4PFOS	INT STD	9.96	503.032 > 80.306	8989		12.086		na	120.9
33	M8PFOS	INT STD	9.96	507.053 > 80.294	9120		9.421		na	94.2
34	PFDA	335-76-2	10.53	513.053 > 468.906	73475		10.134	5.83	NO	
35	M2PFDA	INT STD	10.54	515.053 > 469.934	77180		10.791		na	107.9
36	M6PFDA	INT STD	10.53	519.053 > 473.931	80186		9.292		na	92.9
37	8:2FTS	39108-34-4	10.53	526.926 > 506.818	1575		9.441		na	
38	M2-8:2FTS	INT STD	10.53	529.053 > 508.945	1583		4.463		na	44.6
39	PFNS	68259-12-1	10.56	548.989 > 80.249	6855		7.568	1.25	NO	

all concentration units in (ng/mL)

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ID: WG1274916-5
Name: I8070
Date: 22-Aug-2019
Time: 12:50:24
Description: WG1275463,WG1274916,ICAL15922
Instrument: XEVO-TQSmicro#QEB0050
User: LCMS02:JW
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\181009_TUNE.IPR
MS Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\537ISO28_M_SPAN_DOD.EXP

	Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Ratio Flag	%Rec
40	d3-NMeFOSAA	INT STD	10.91	573.096 > 418.987	5839		6.818		na	68.2
41	NMeFOSAA	2355-31-9	10.91	570.053 > 418.917	5962		10.054	3.32	NO	
42	PFUnA	2058-94-8	11.07	562.989 > 518.903	69194		10.220	7.58	NO	
43	M7-PFUDA	INT STD	11.07	570.053 > 524.923	65931		8.640		na	86.4
44	PFDS	335-77-3	11.08	598.926 > 80.314	5343		7.952	1.01	YES	
45	FOSA	754-91-6	10.93	497.989 > 78.245	4770		8.712		YES	
46	M8FOSA	INT STD	10.93	506.053 > 78.286	4767		1.856		na	18.6
47	d5-NEtFOSAA	INT STD	11.19	589.117 > 418.929	4992		6.433		na	64.3
48	NEtFOSAA	2991-50-6	11.20	583.989 > 418.927	4948		9.803	2.41	NO	
49	PFDoA	307-55-1	11.54	612.989 > 568.967	70129		10.705	14.06	NO	
50	MPFDOA	INT STD	11.54	614.989 > 569.92	68266		8.080		na	80.8
51	PFTrDA	72629-94-8	11.96	663.053 > 618.969	70046		11.386	11.89	NO	
52	PFTA	376-06-7	12.31	713.053 > 668.976	56666		11.178	9.22	NO	
53	M2PFTEDA	INT STD	12.31	715.053 > 669.945	58287		8.165		na	81.6

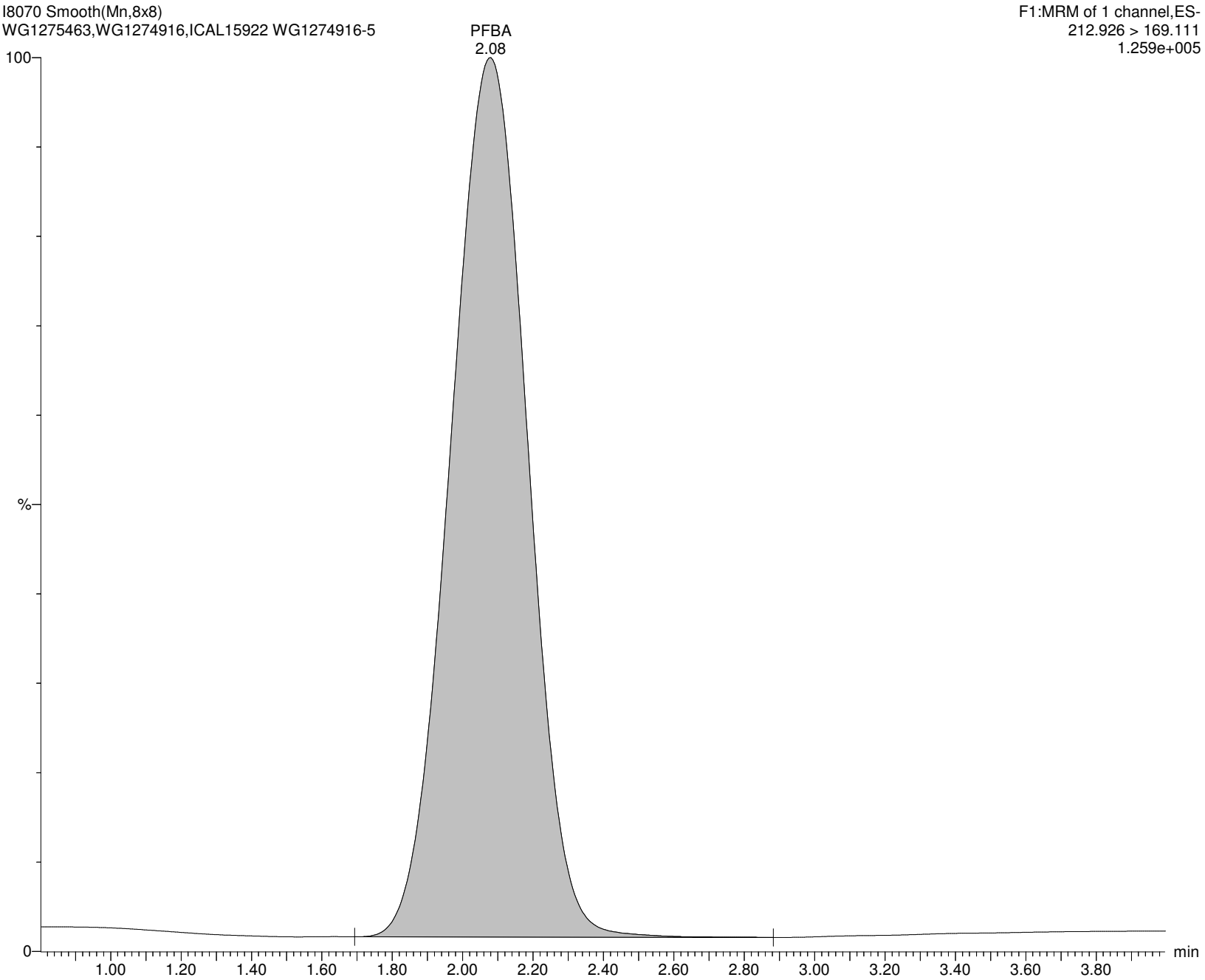
all concentration units in (ng/mL)

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Last Altered: Thursday, August 22, 2019 13:45:42 Eastern Daylight Time
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Date: 22-Aug-2019
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User: LCMS02:JW
Vial: 1:C,2
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
Tune Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\181009_TUNE.IPR
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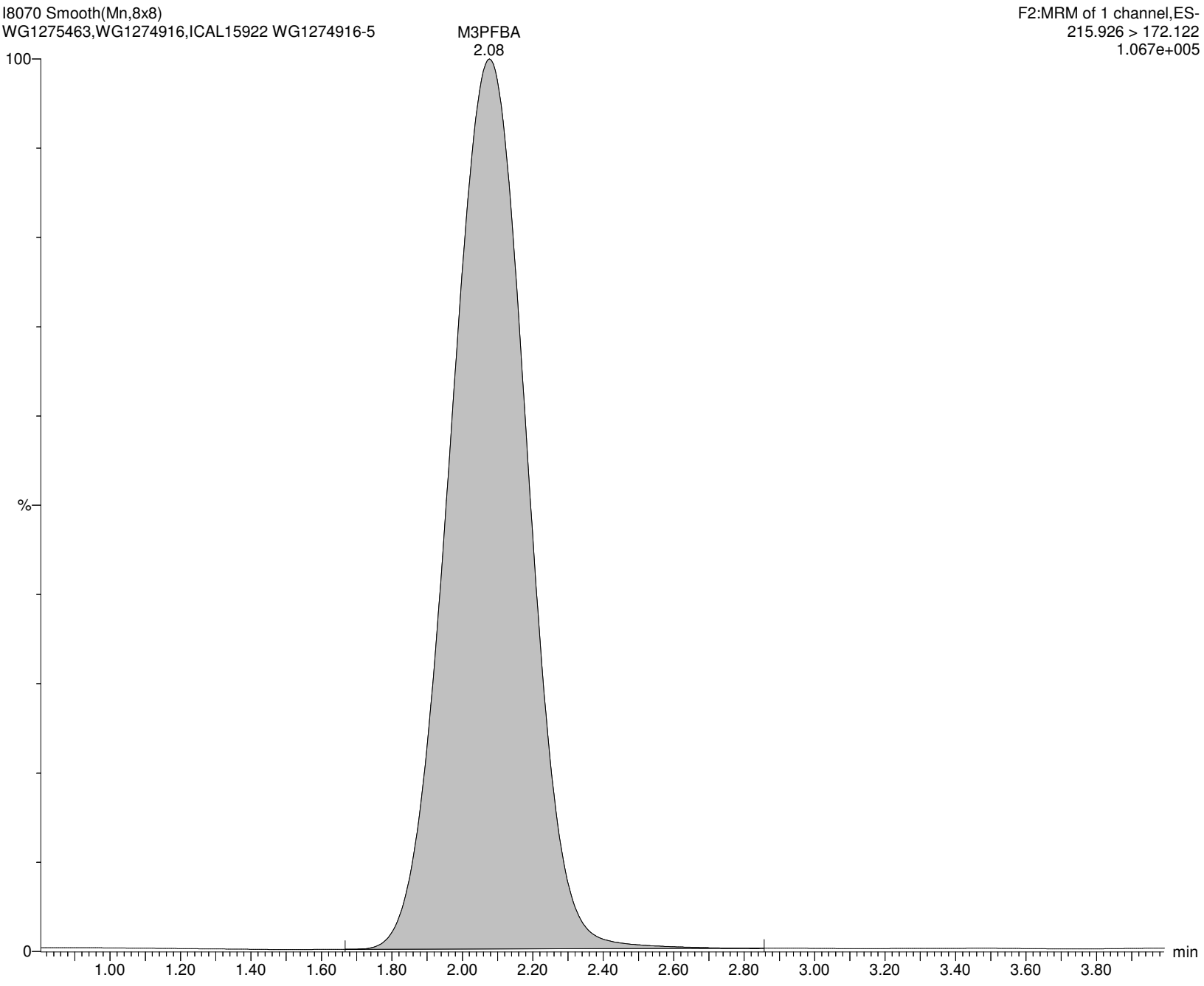


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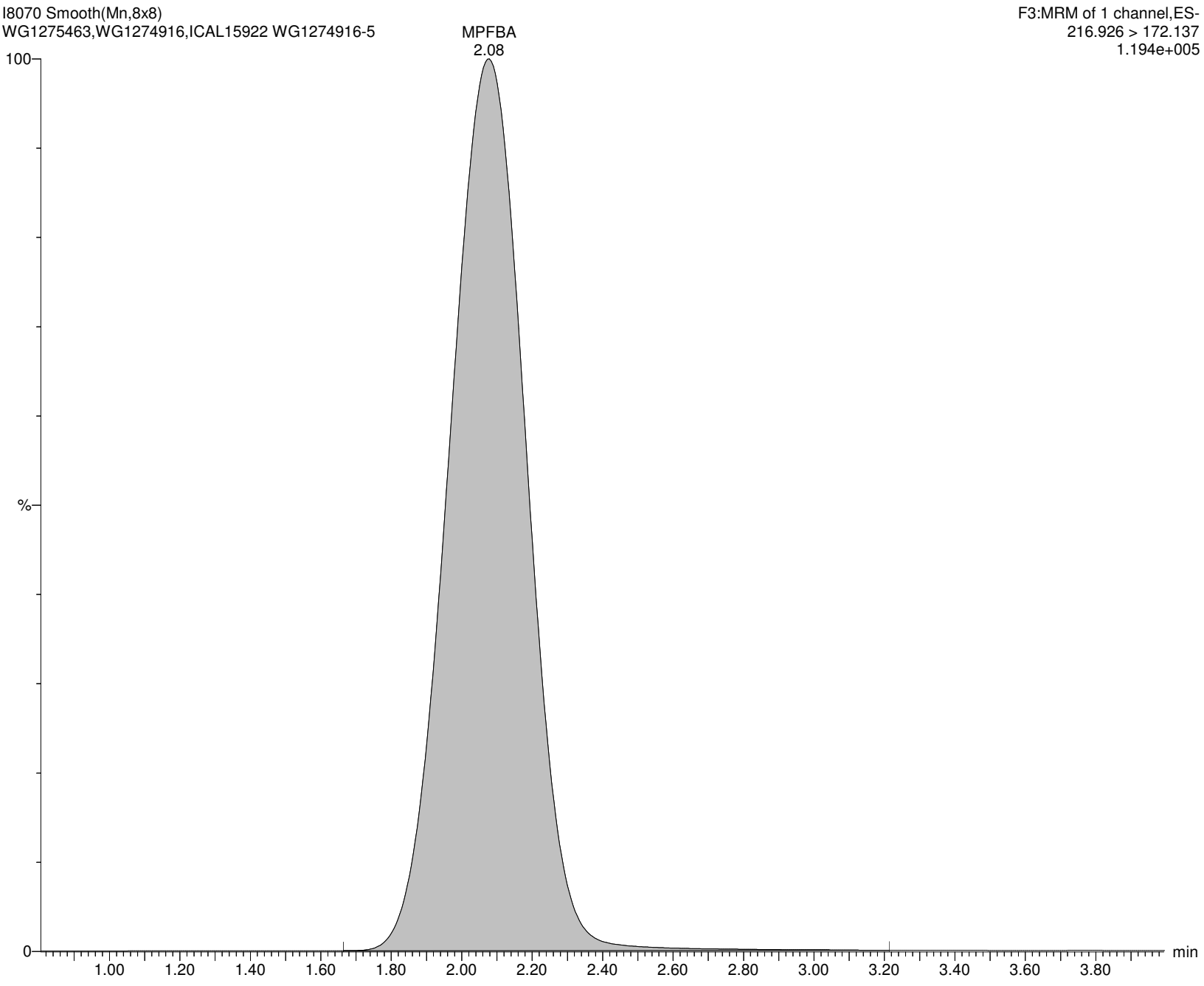


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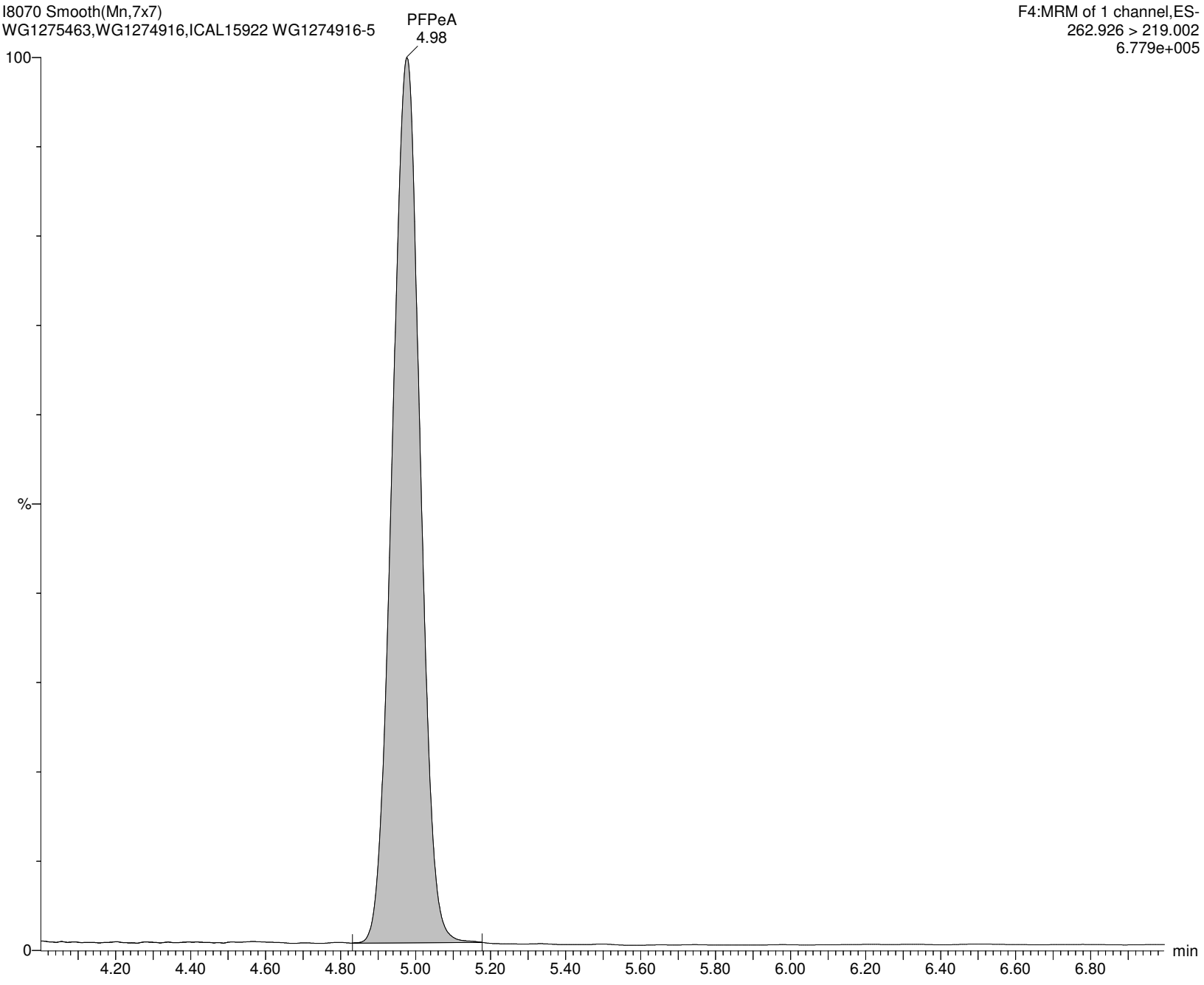


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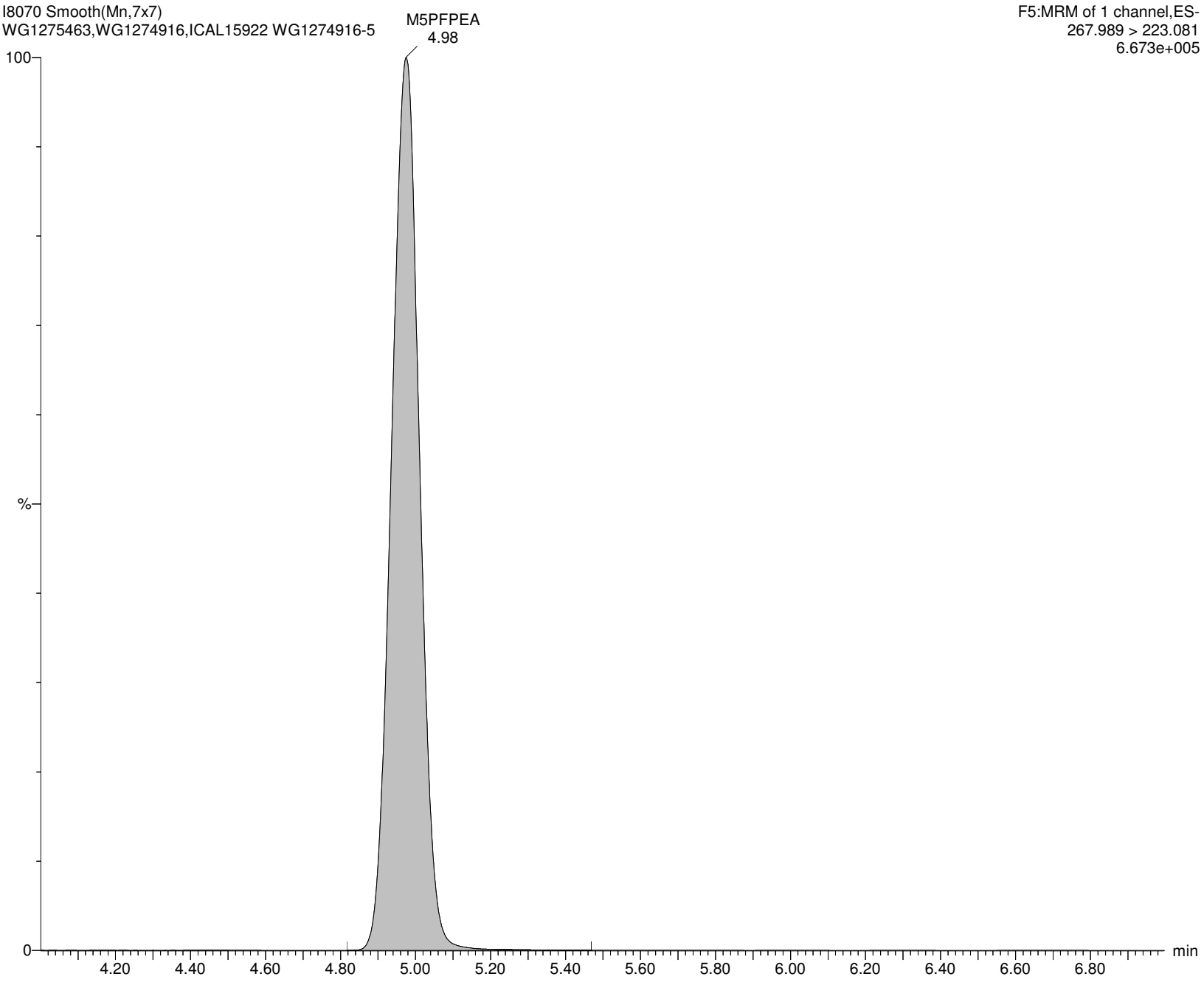


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M5PFPEA

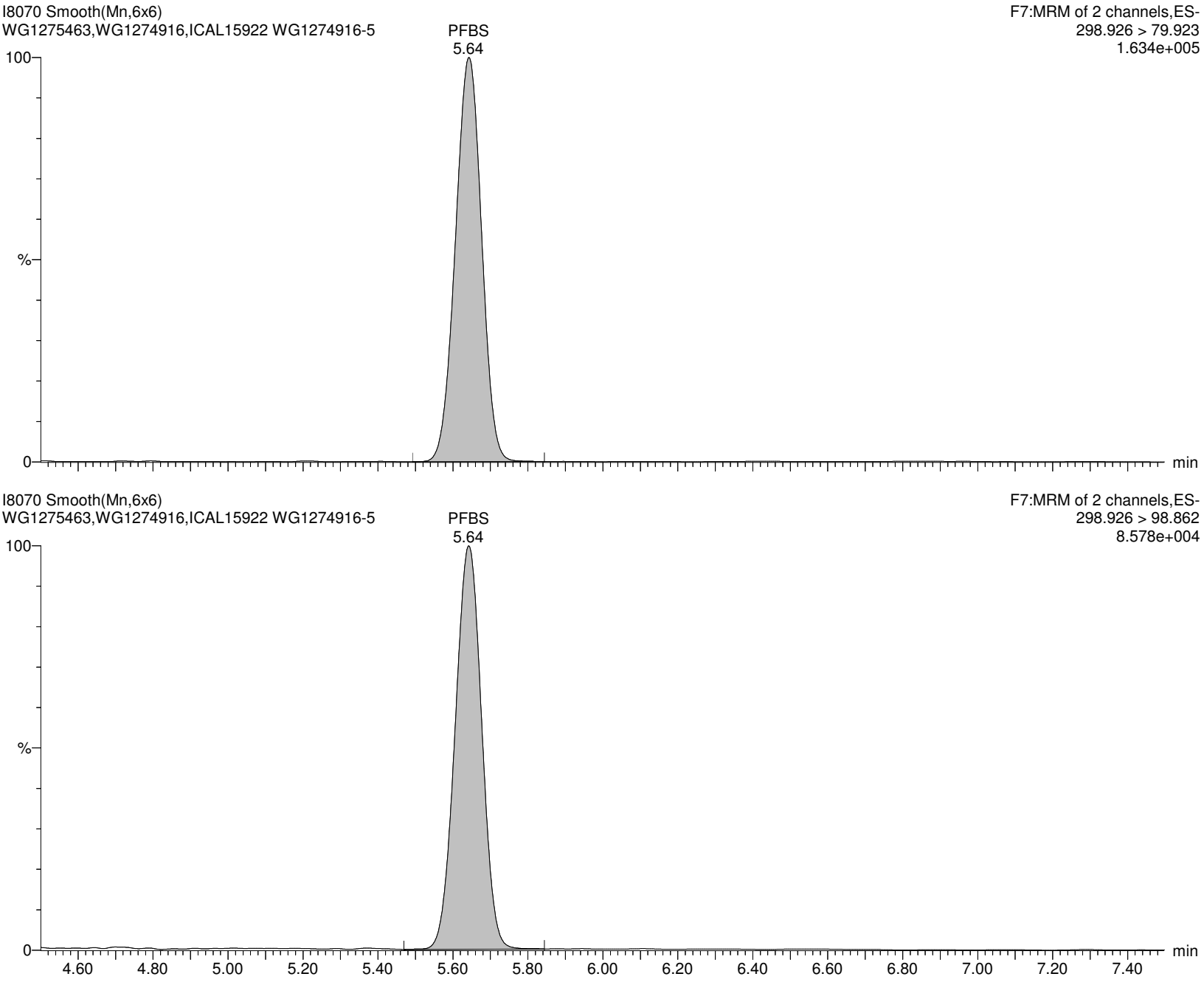


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PFBS

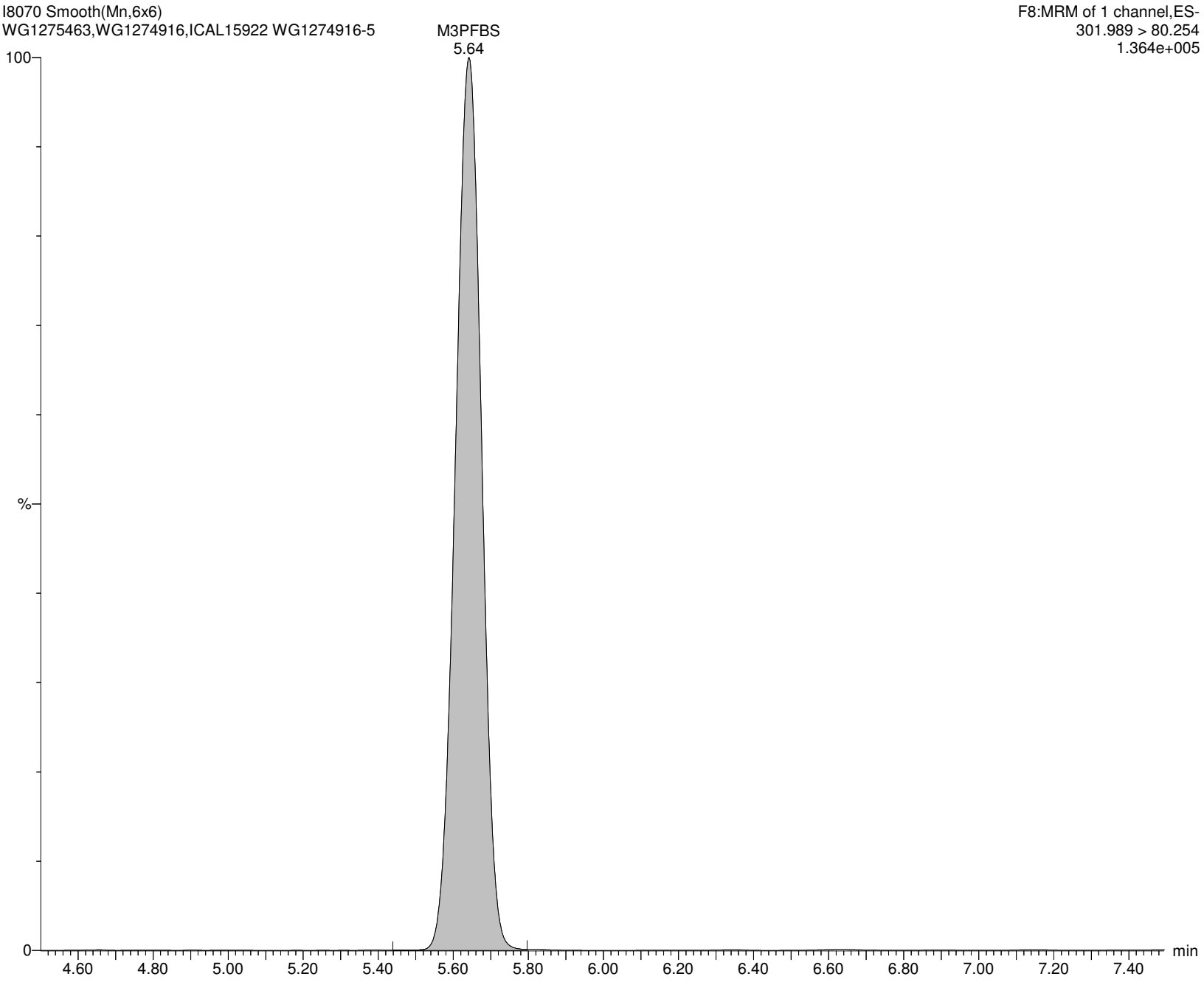


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M3PFBS

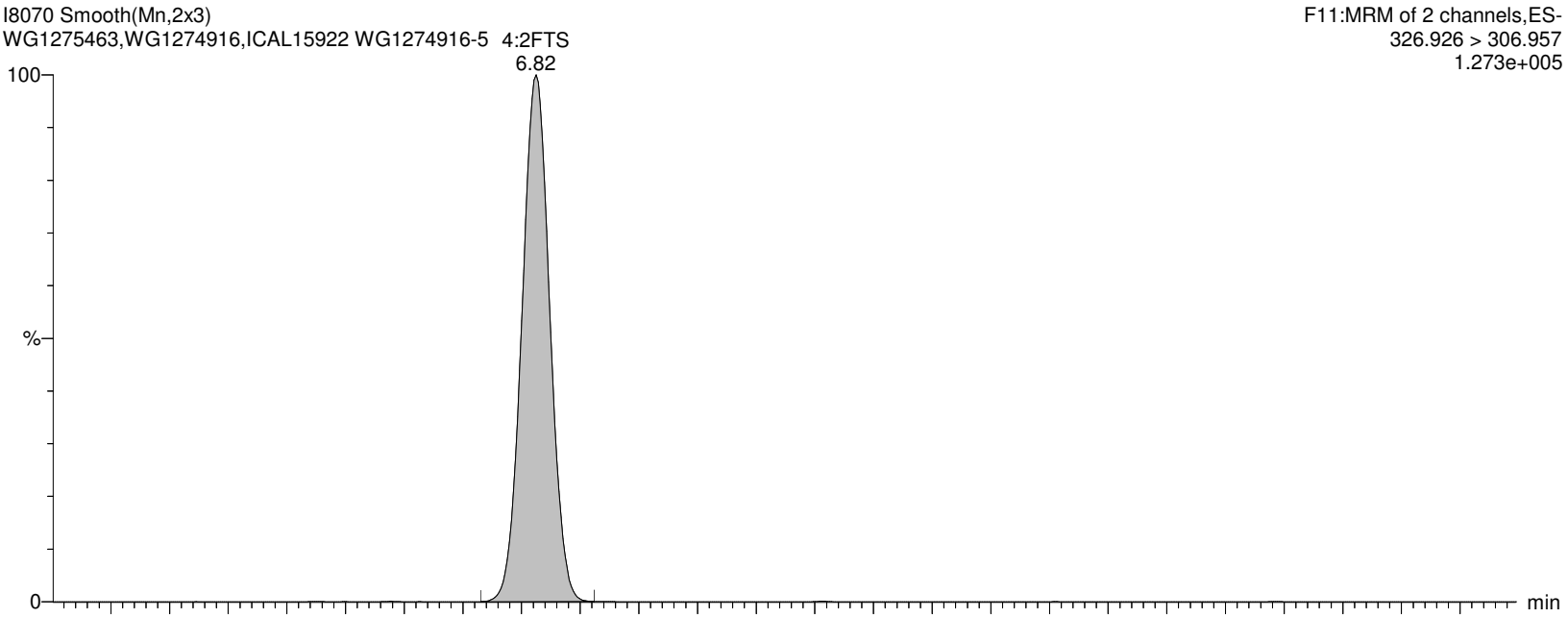


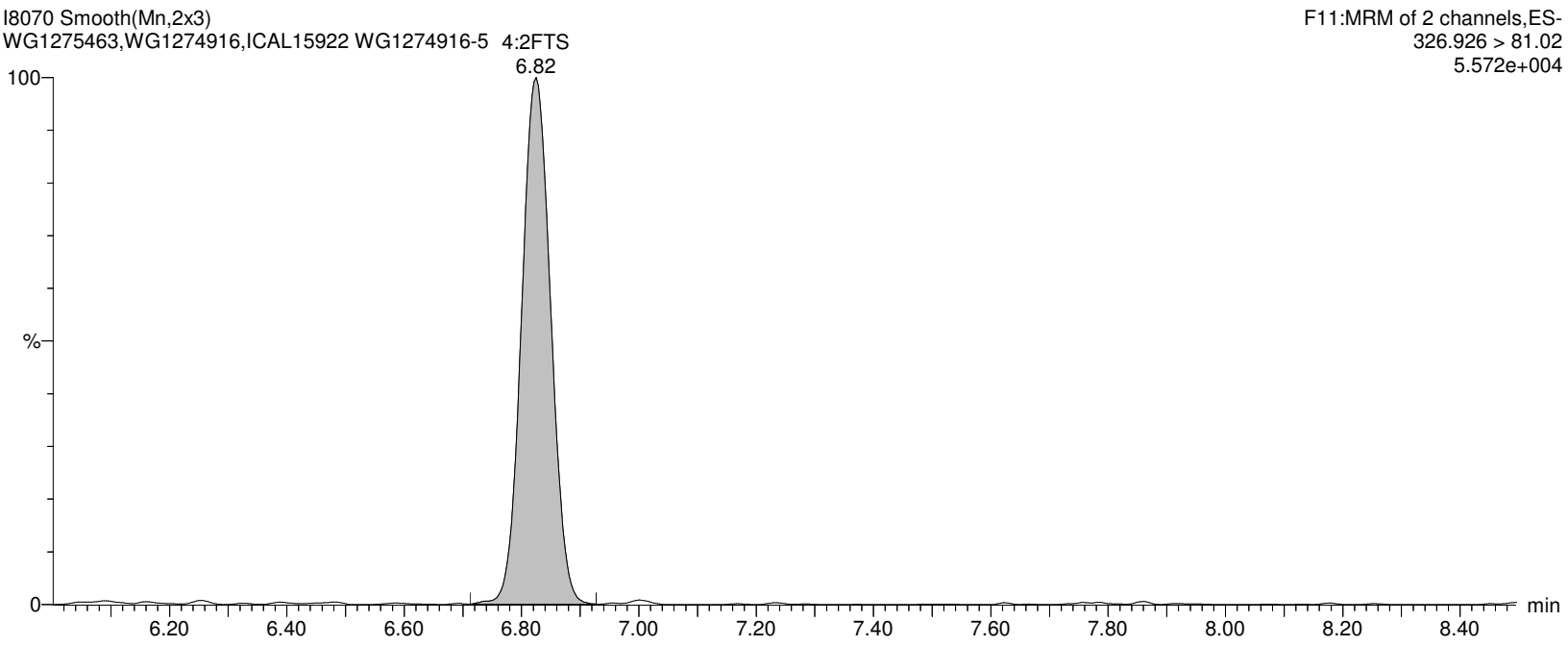
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
Last Altered: Thursday, August 22, 2019 13:45:42 Eastern Daylight Time
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Name: I8070
ID: WG1274916-5
Date: 22-Aug-2019
Time: 12:50:24
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:C,2
Instrument: XEVO-TQSmicro#QEB0050
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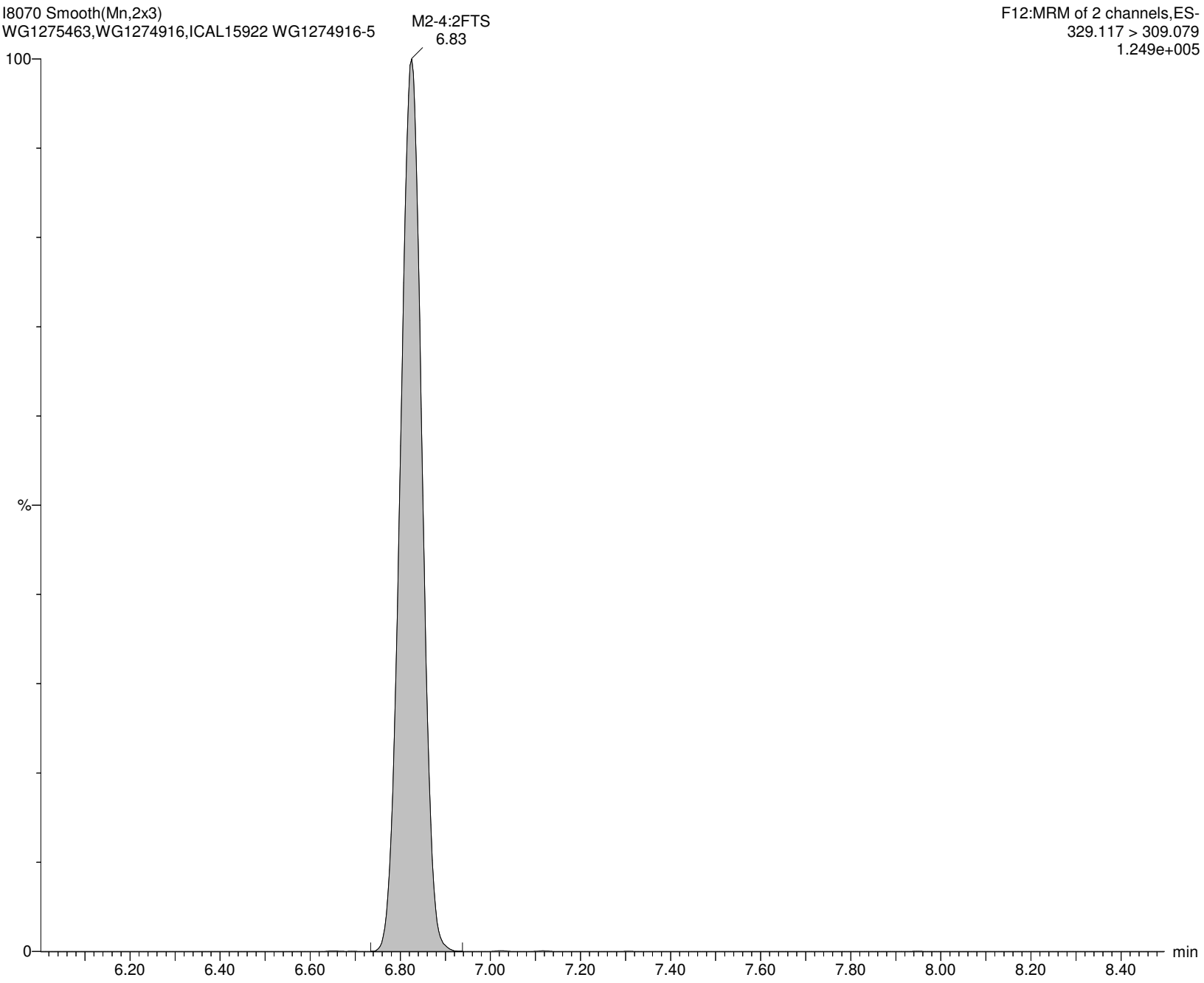


all concentration units in (ng/mL)

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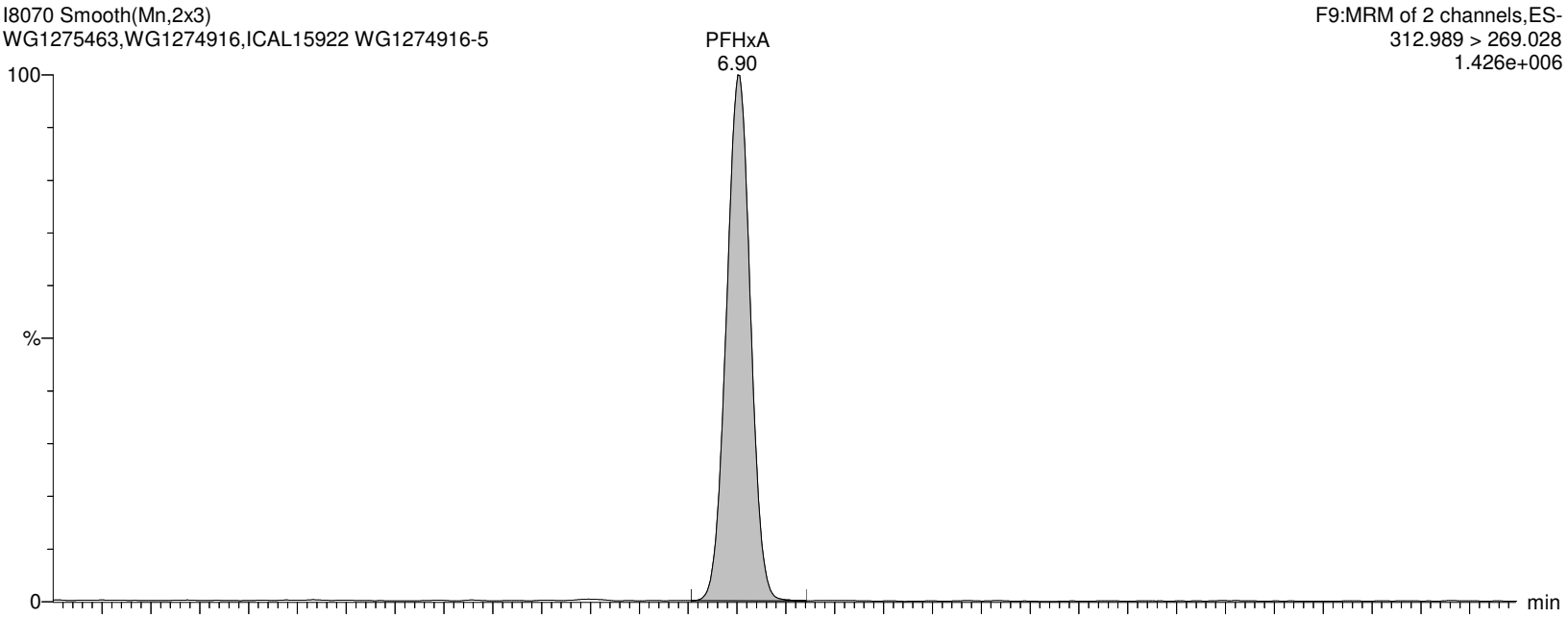


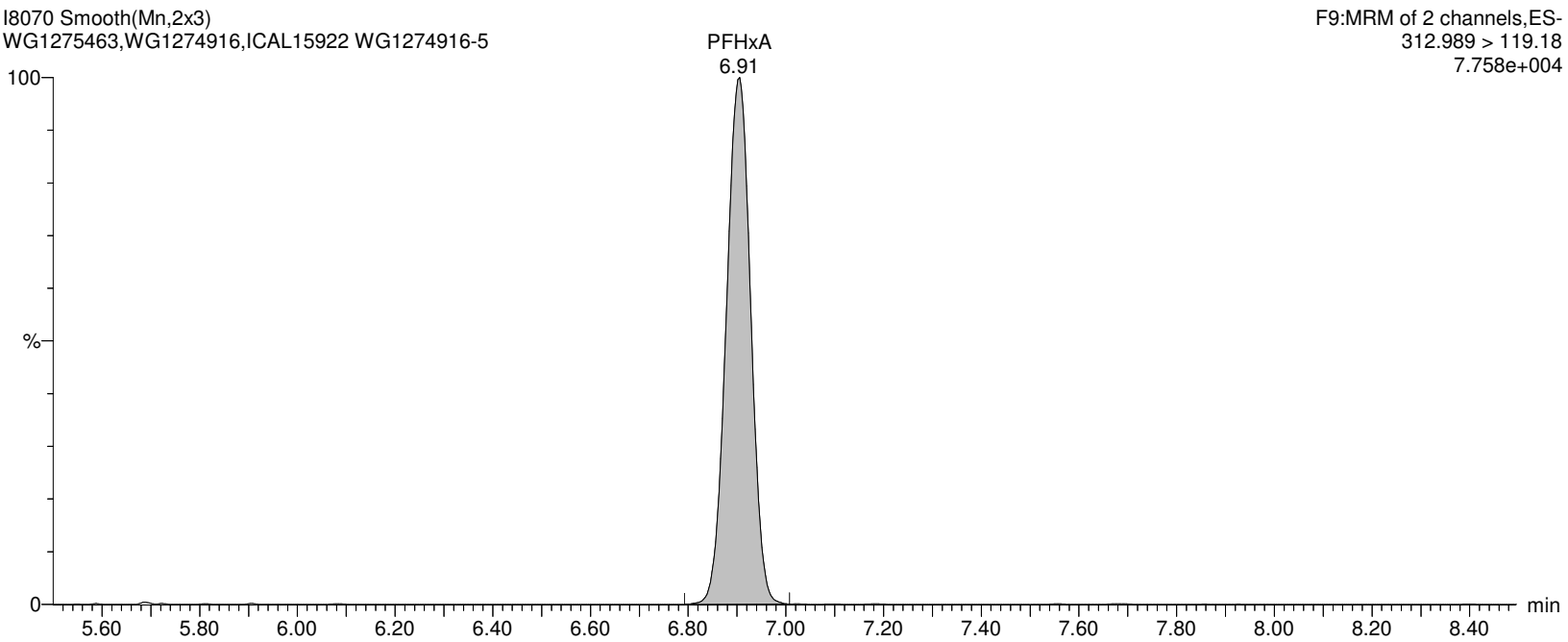
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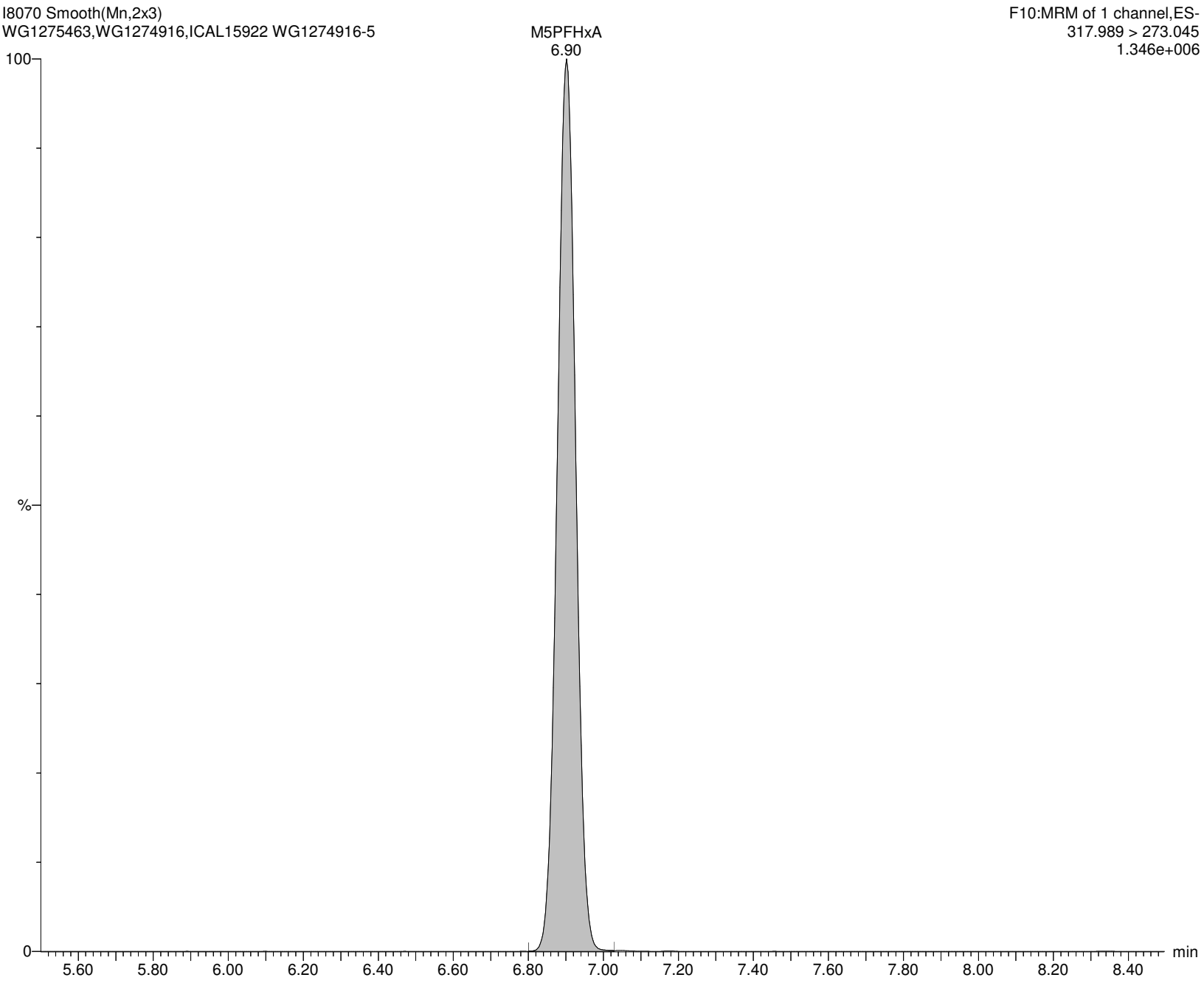


all concentration units in (ng/mL)

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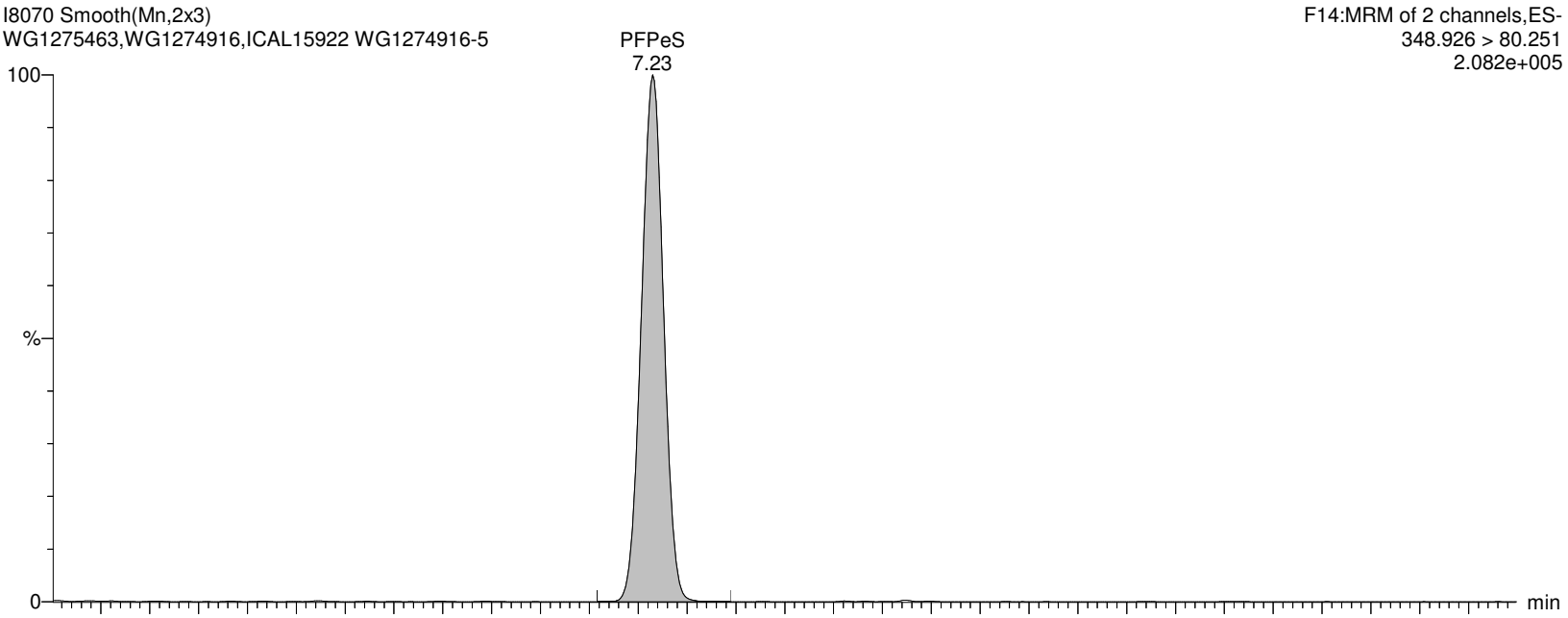


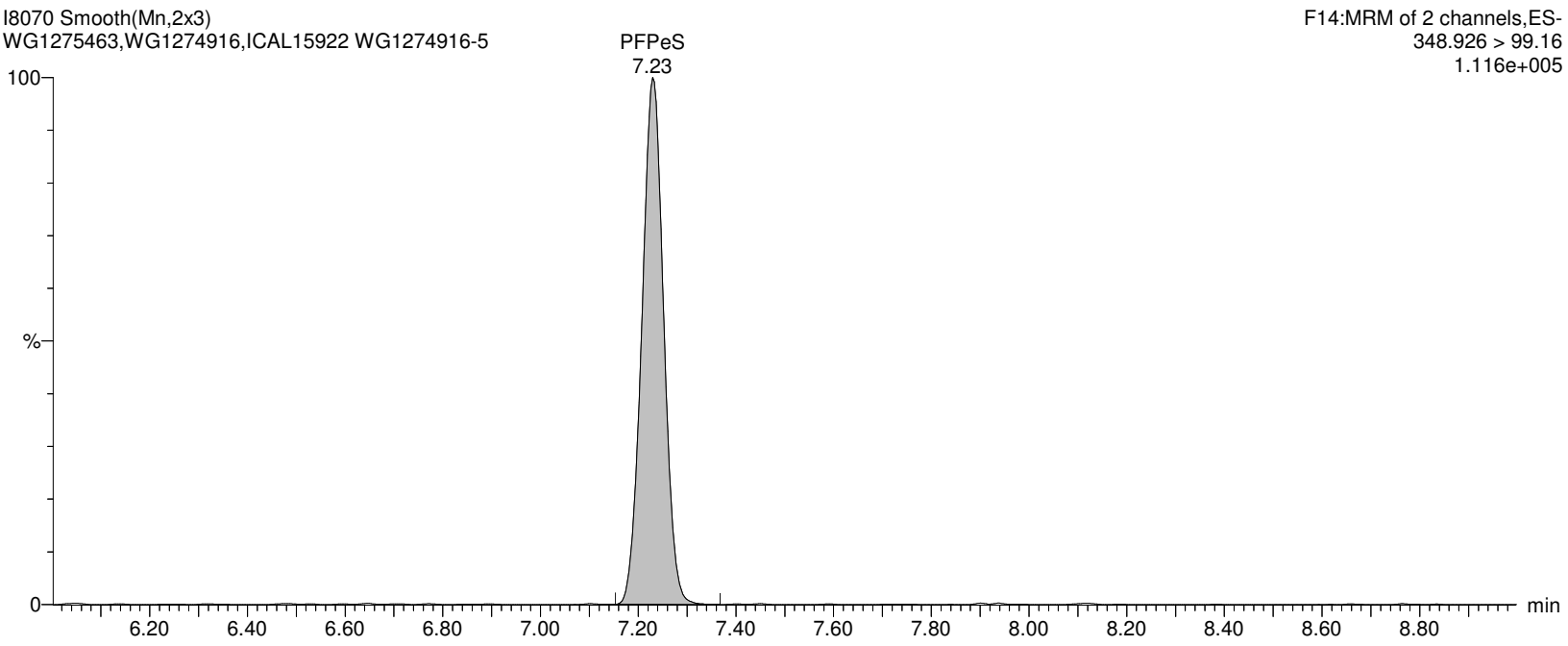
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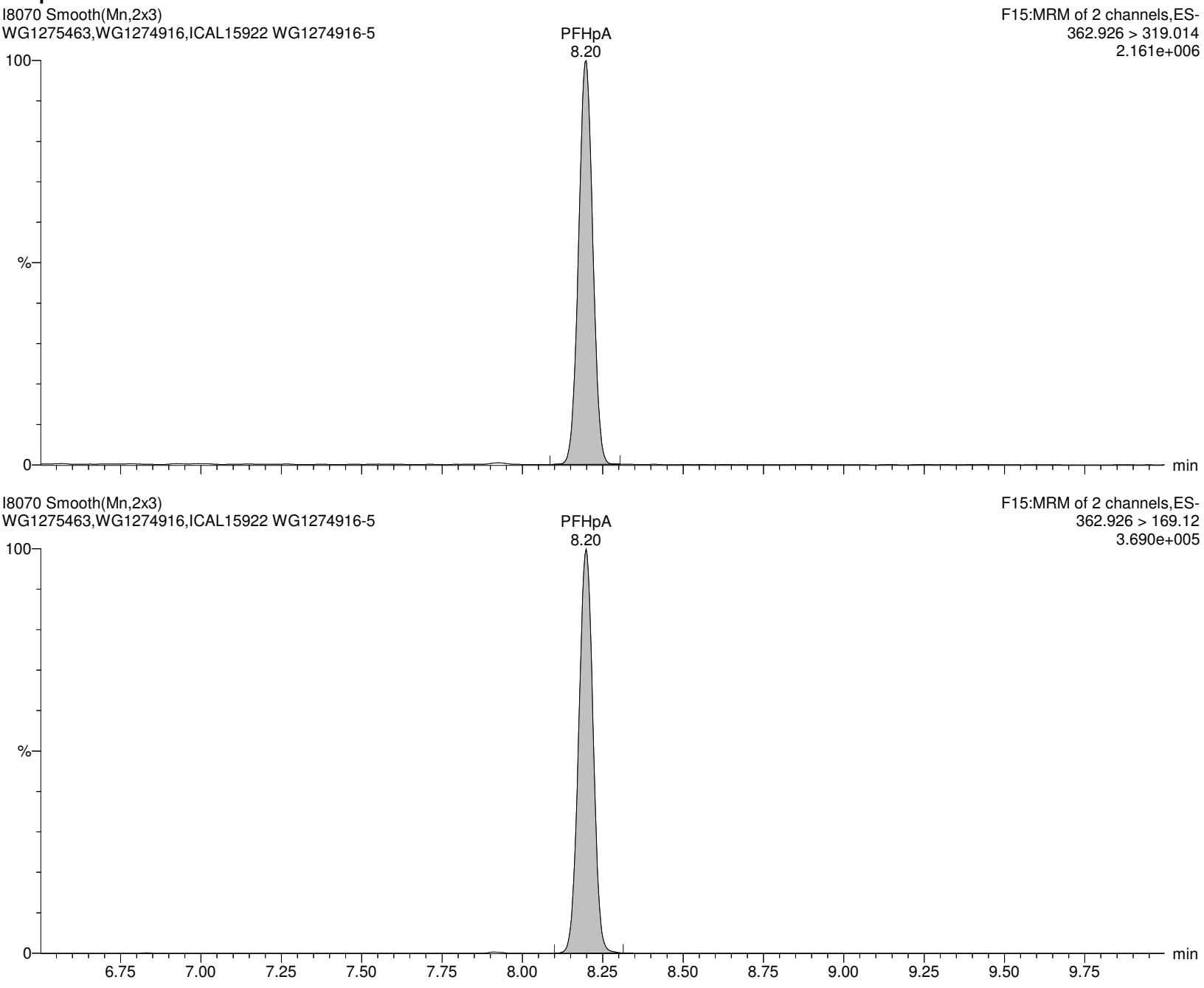


all concentration units in (ng/mL)

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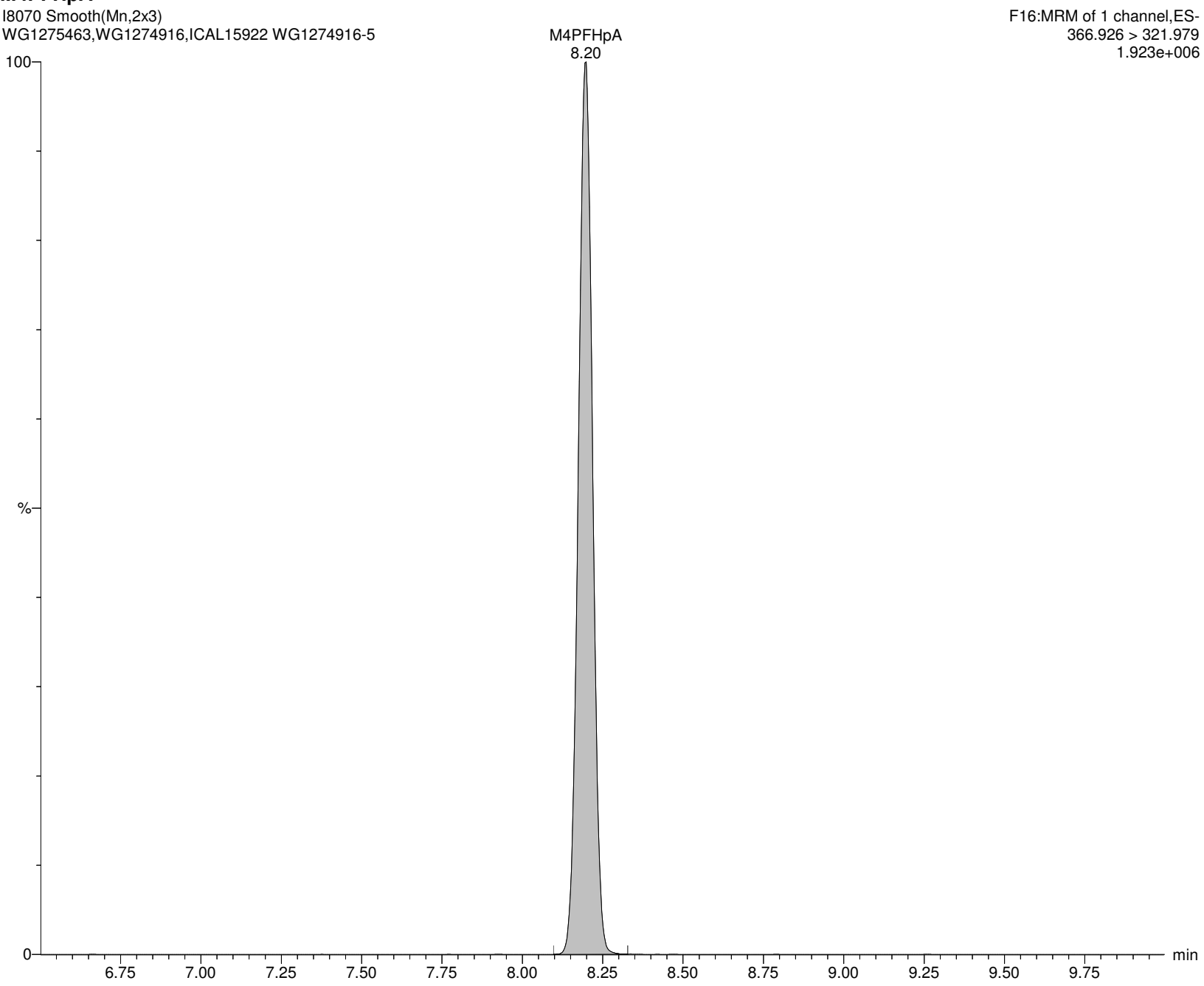


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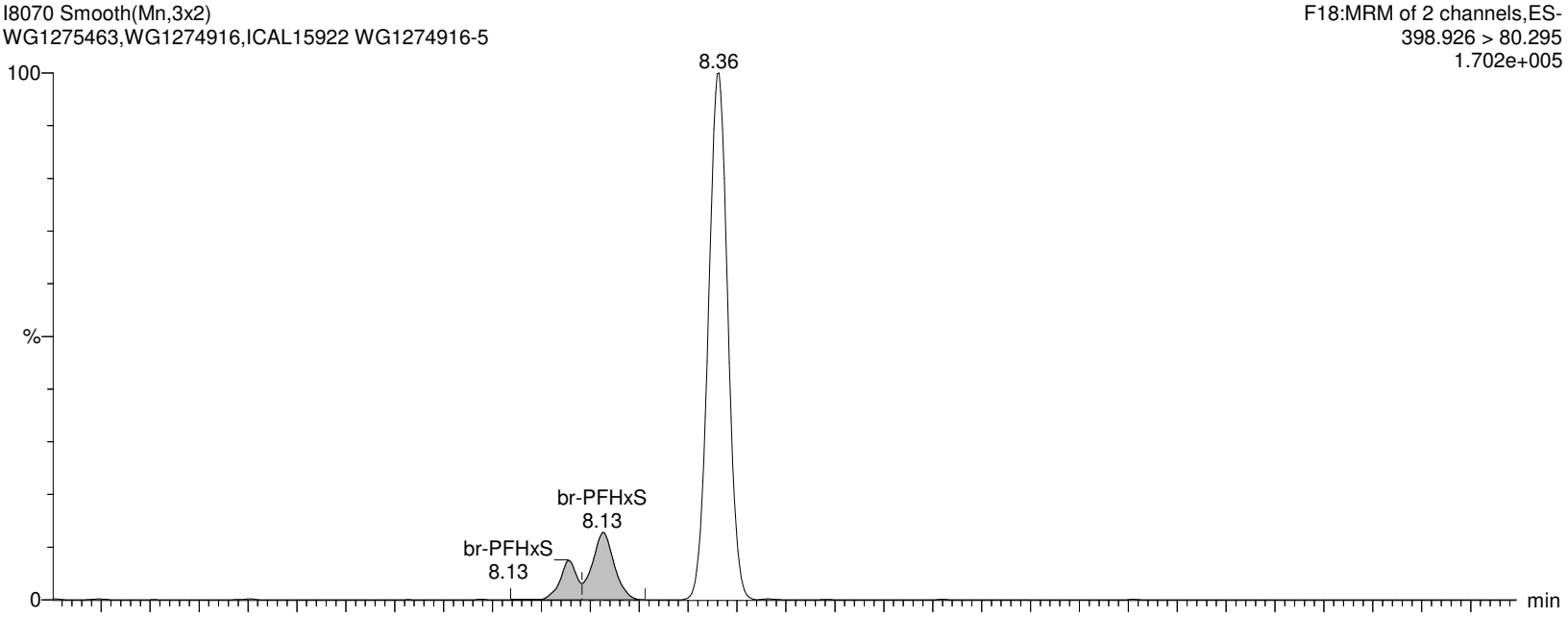


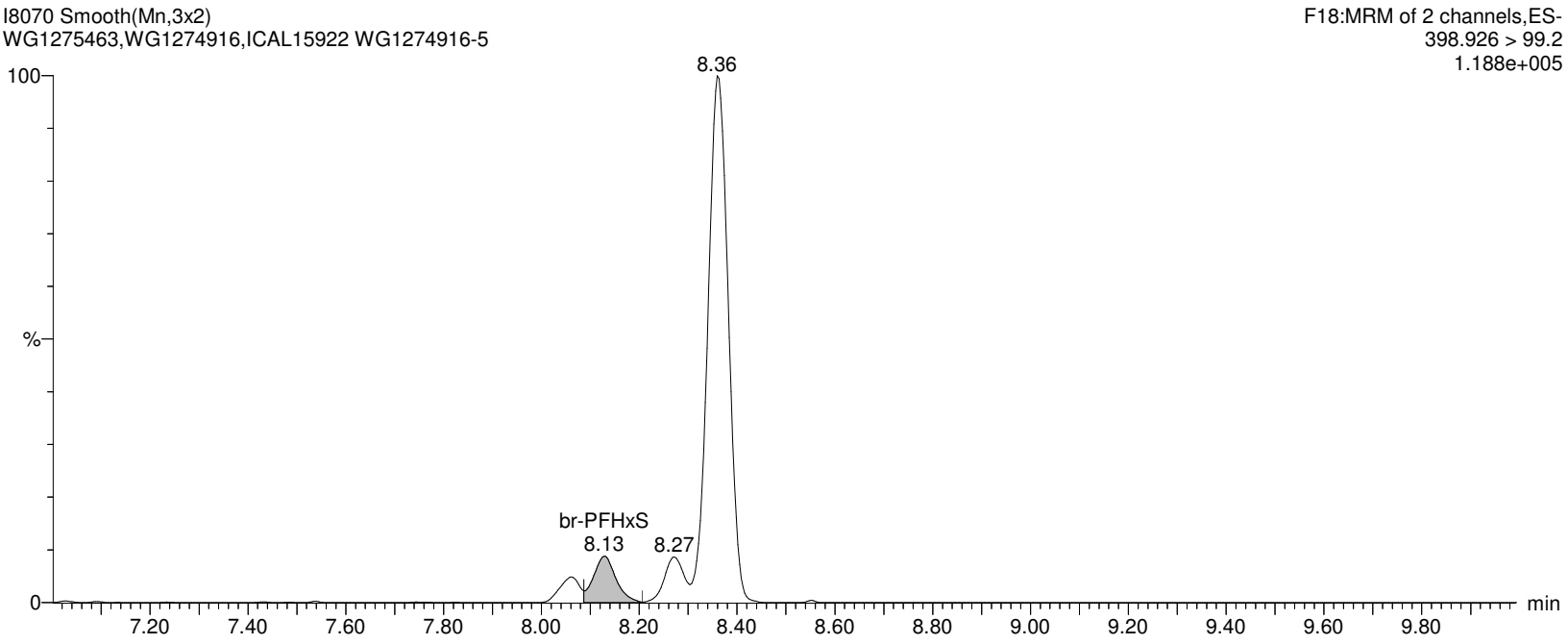
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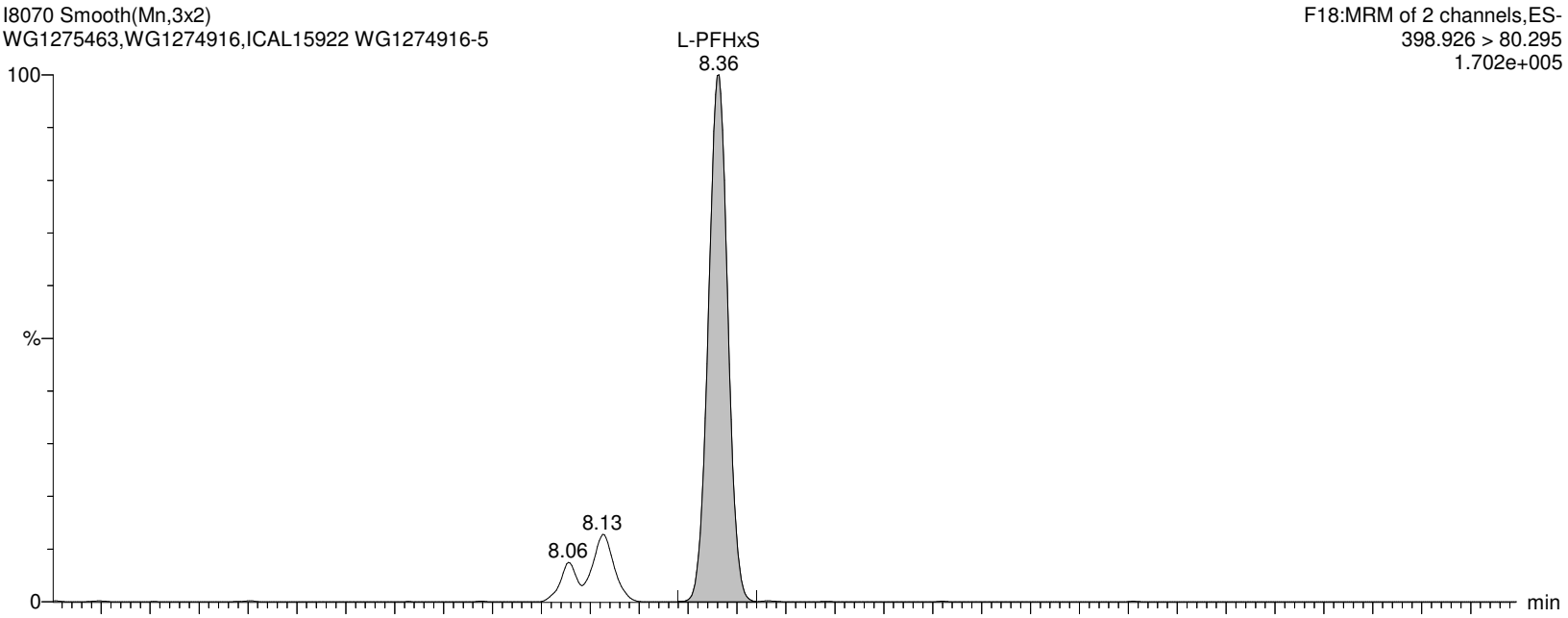


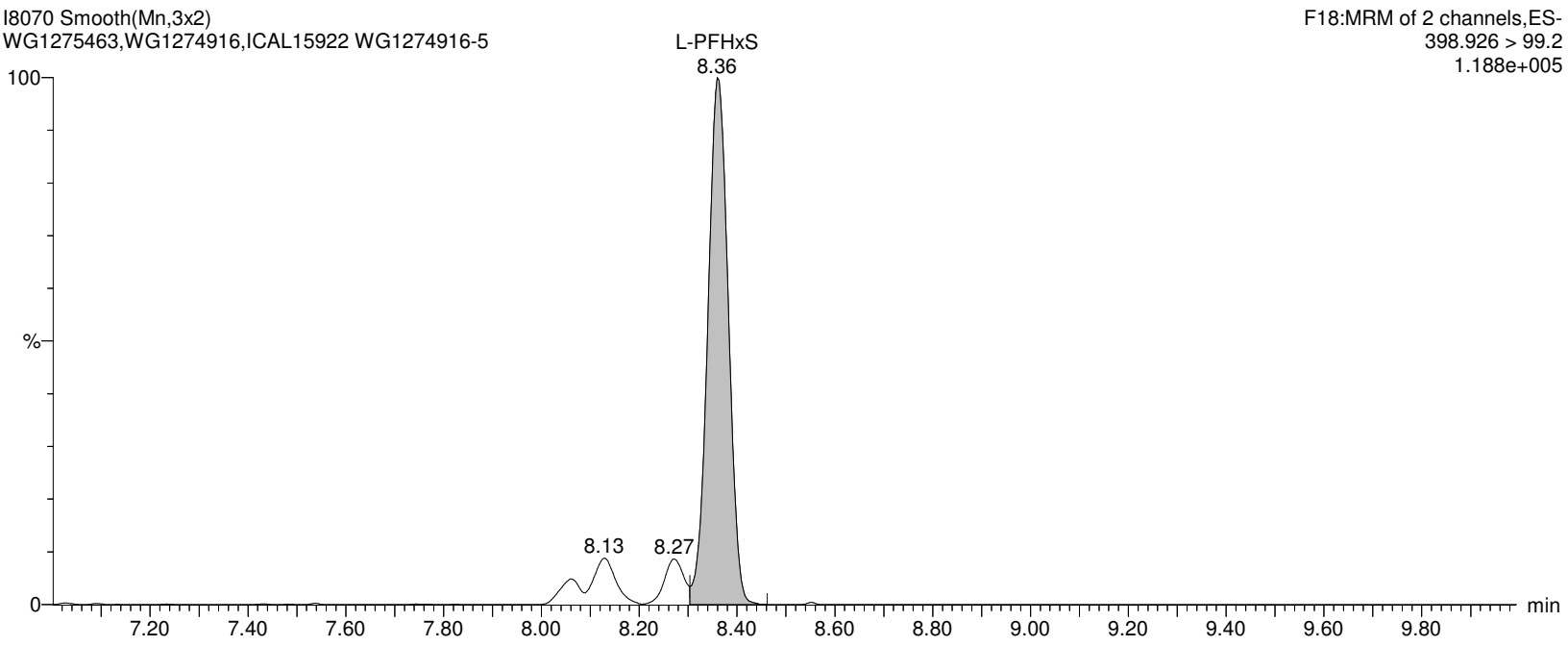
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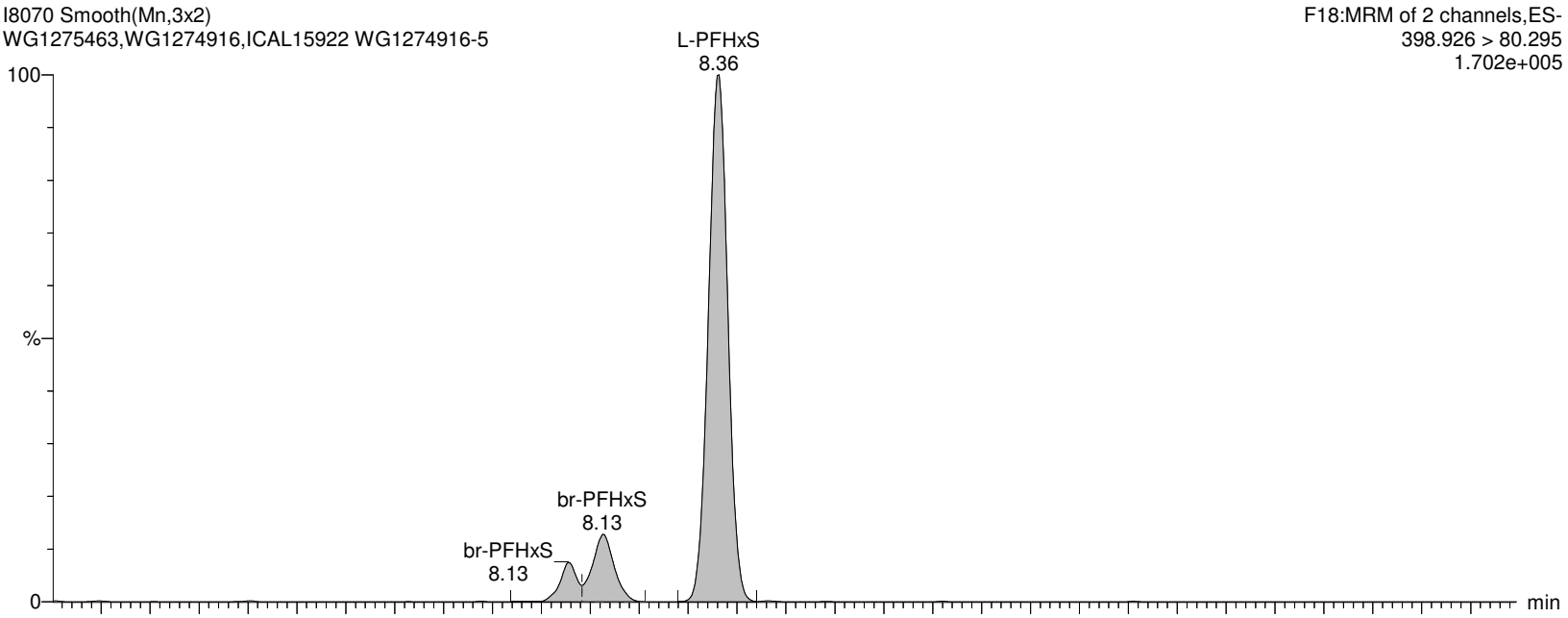


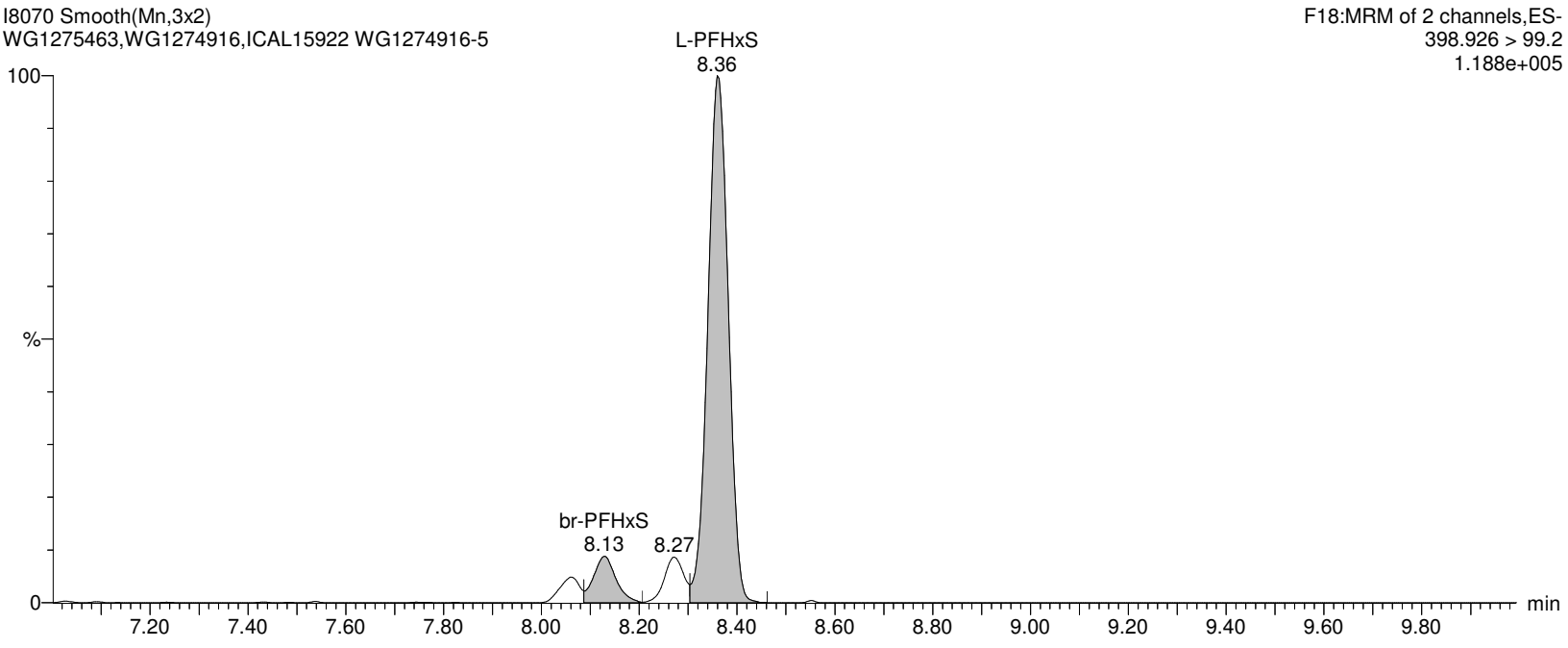
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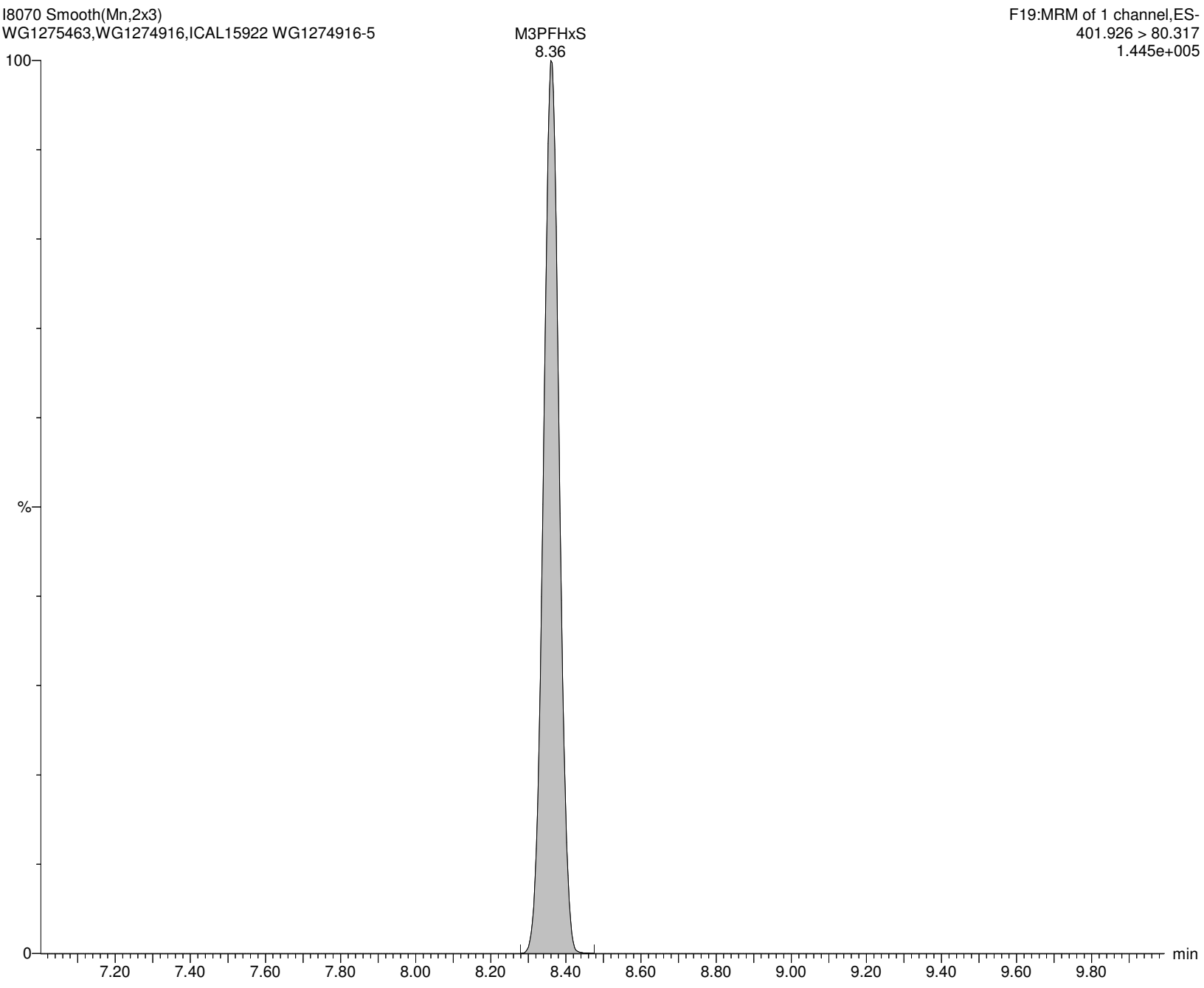


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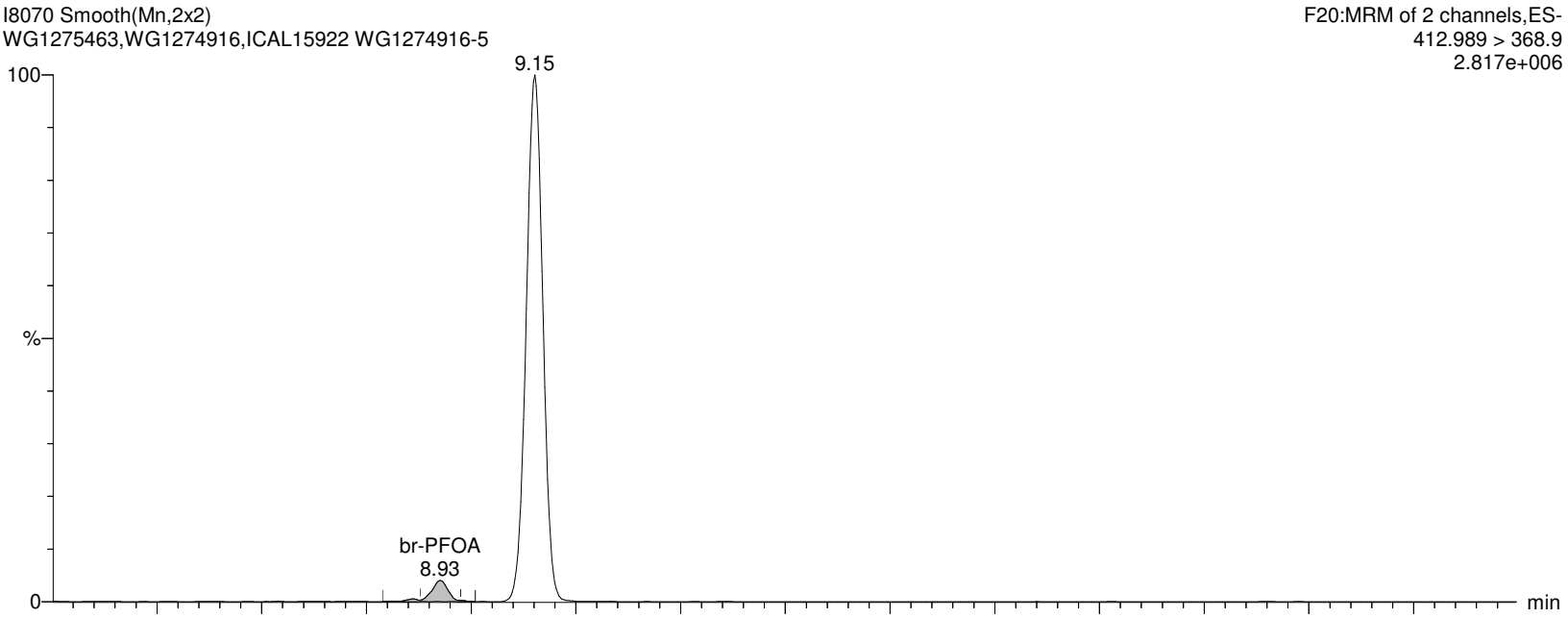


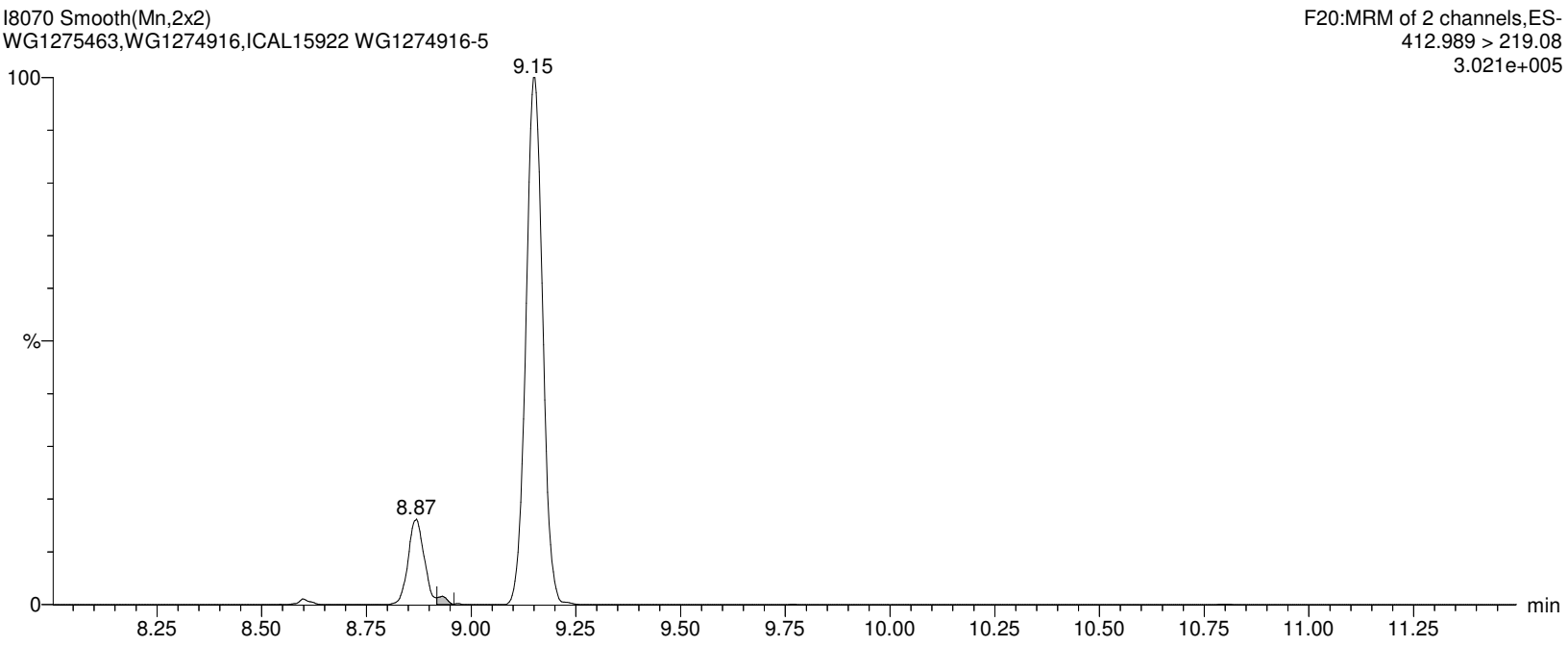
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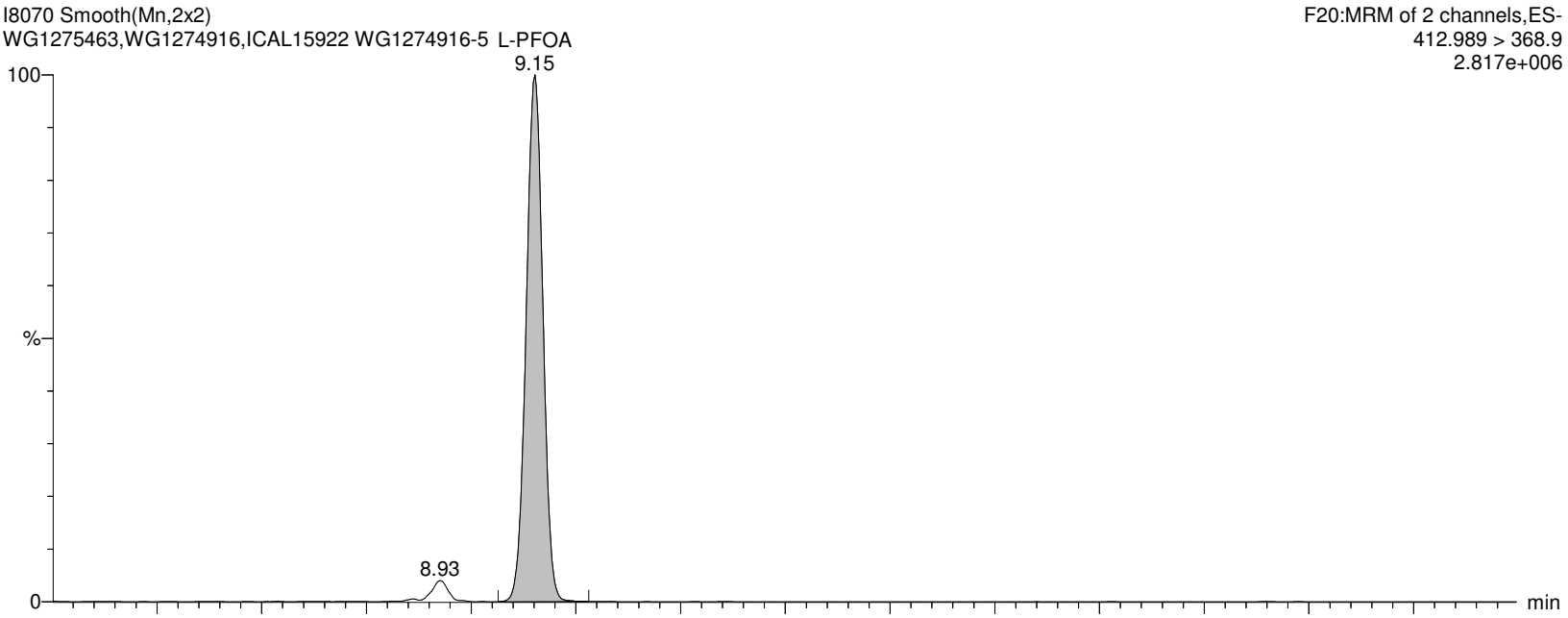


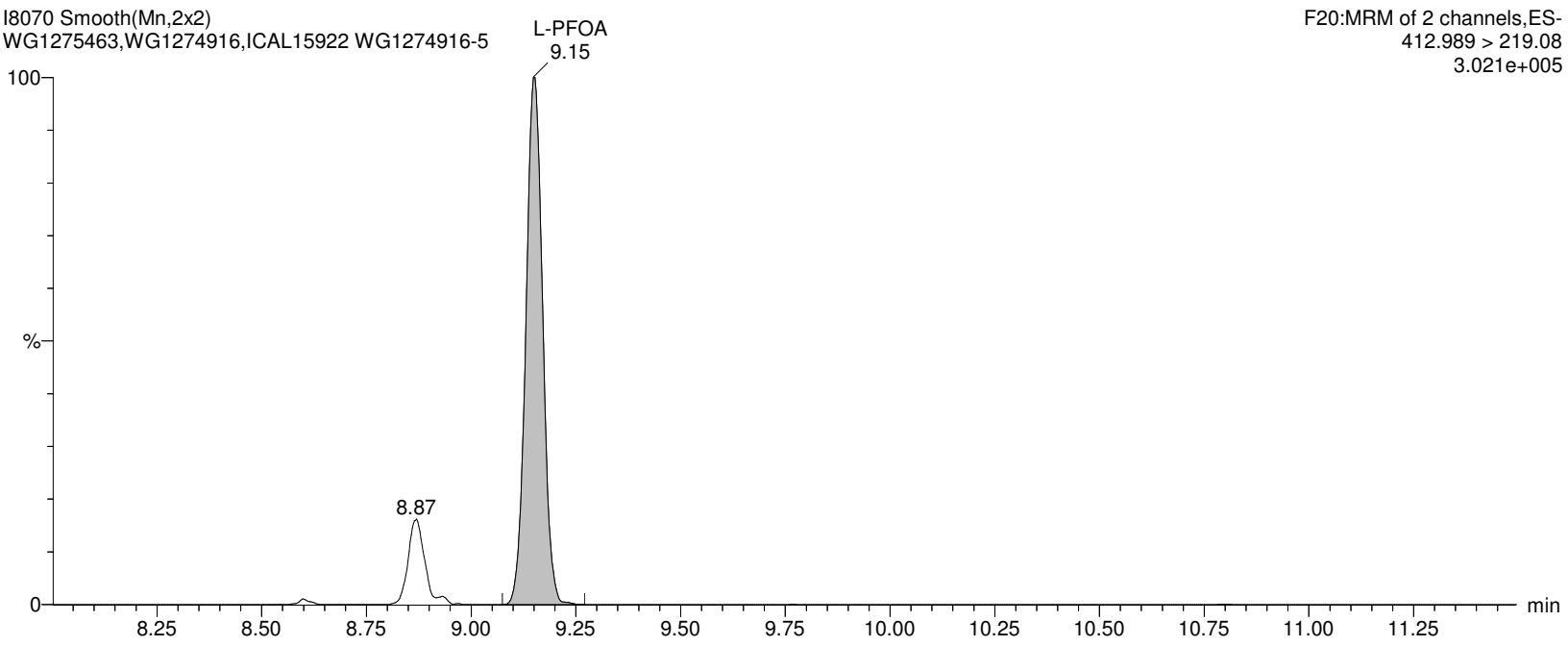
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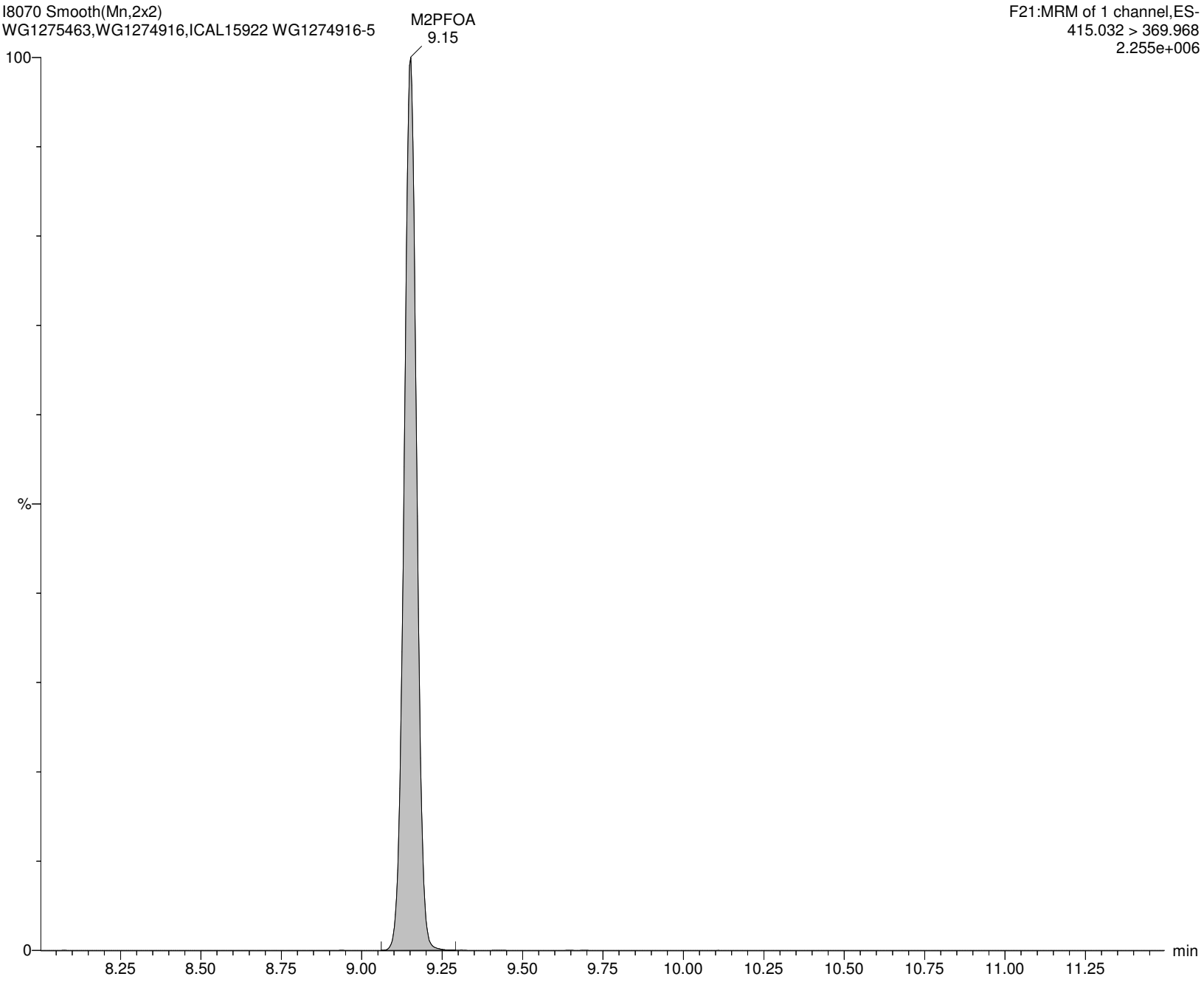


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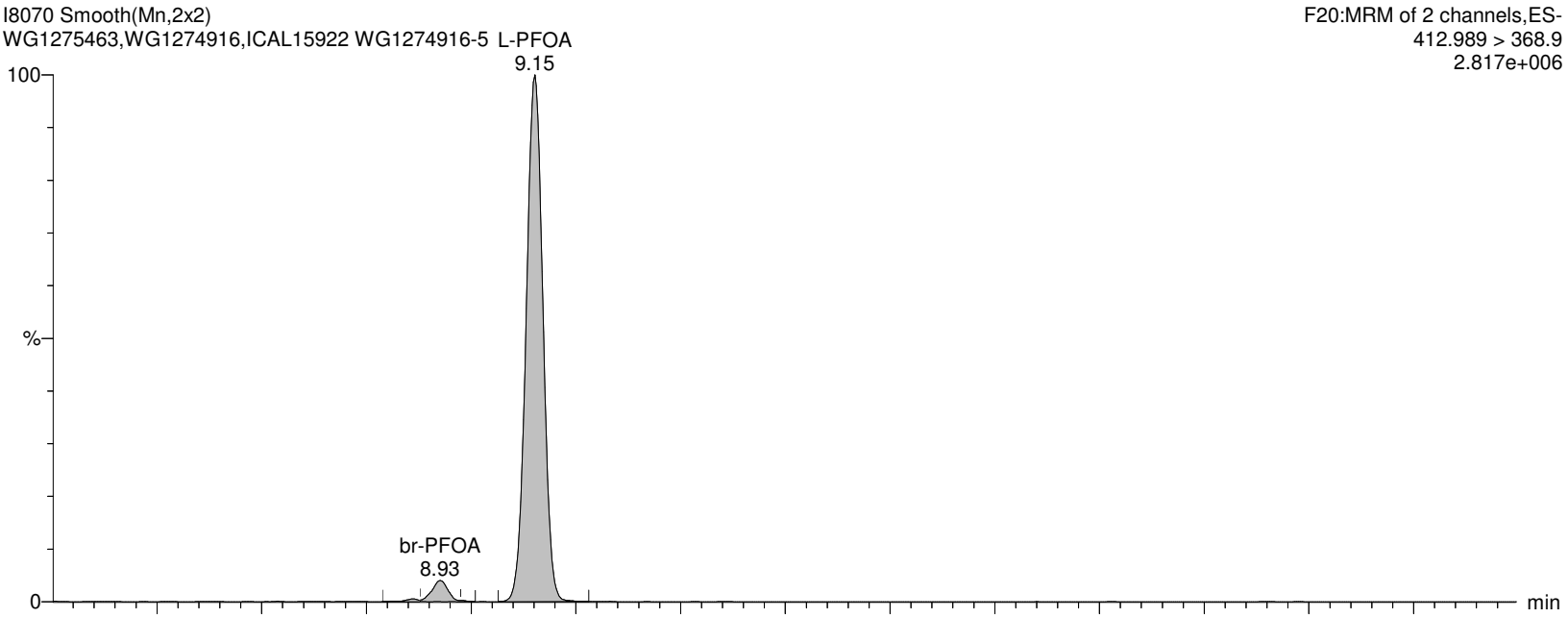


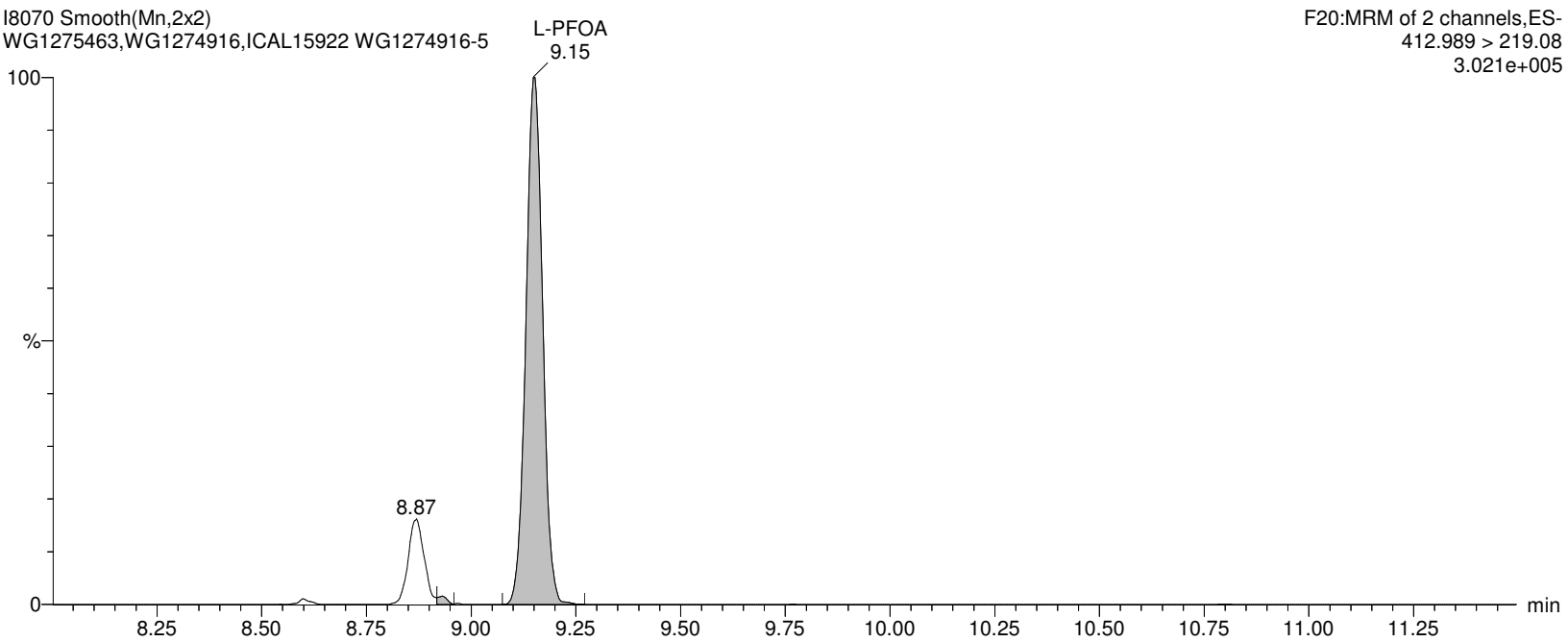
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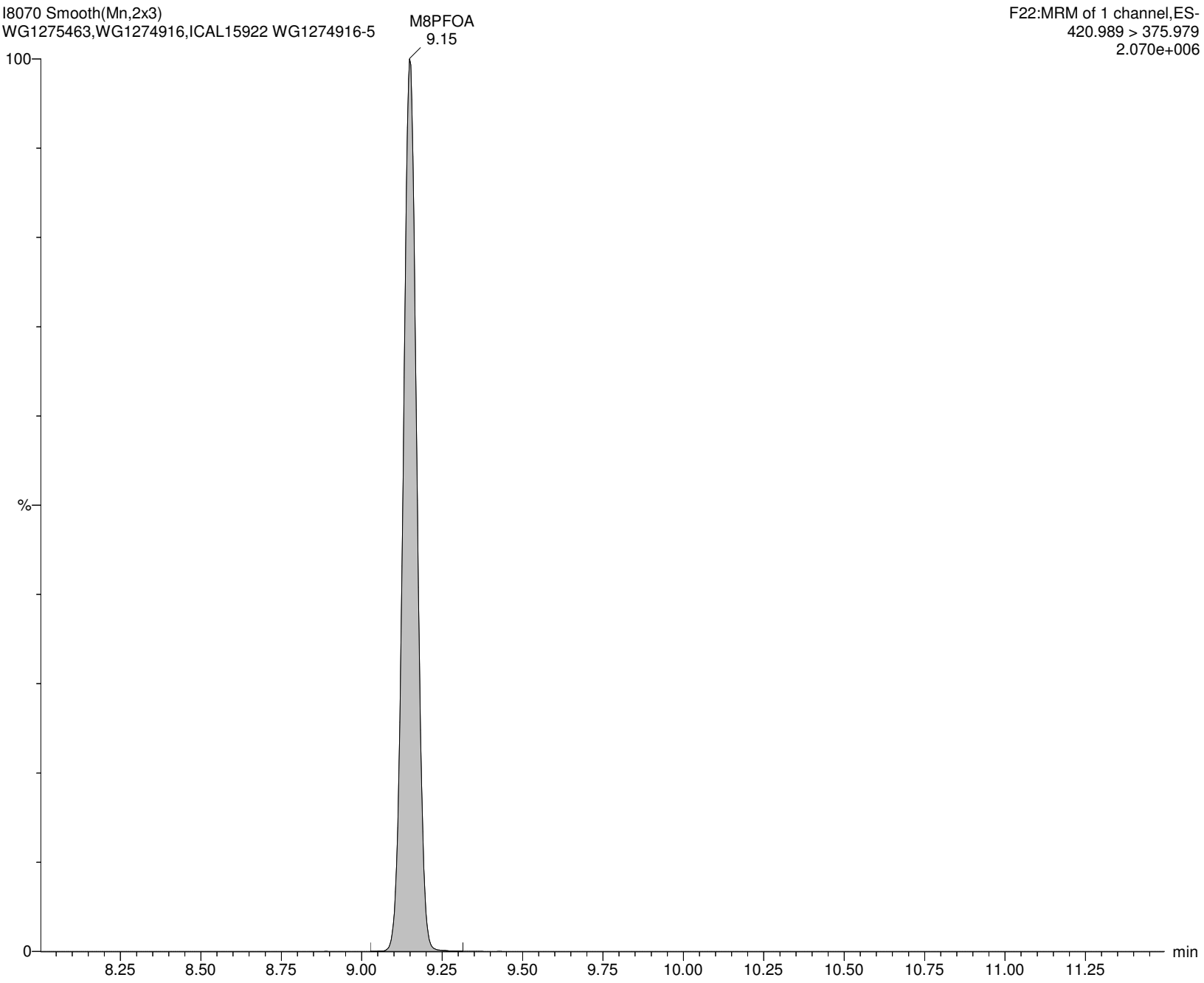


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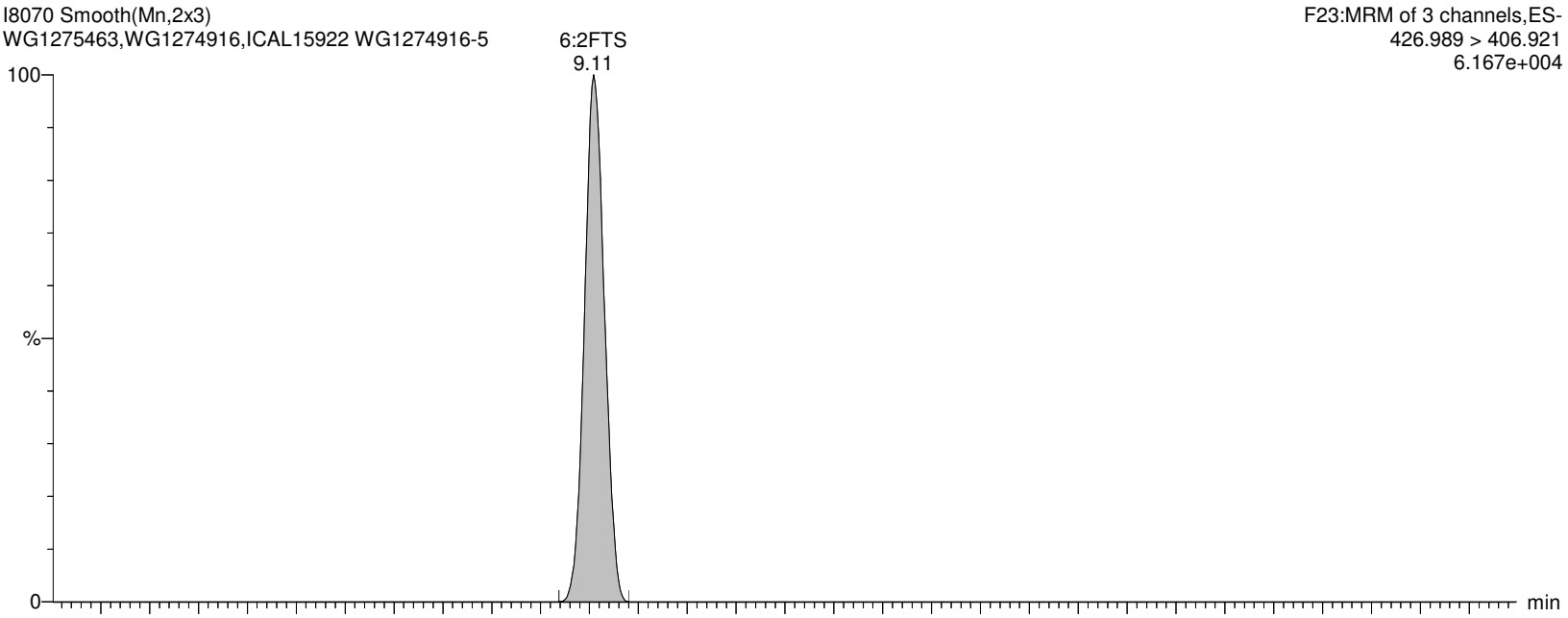


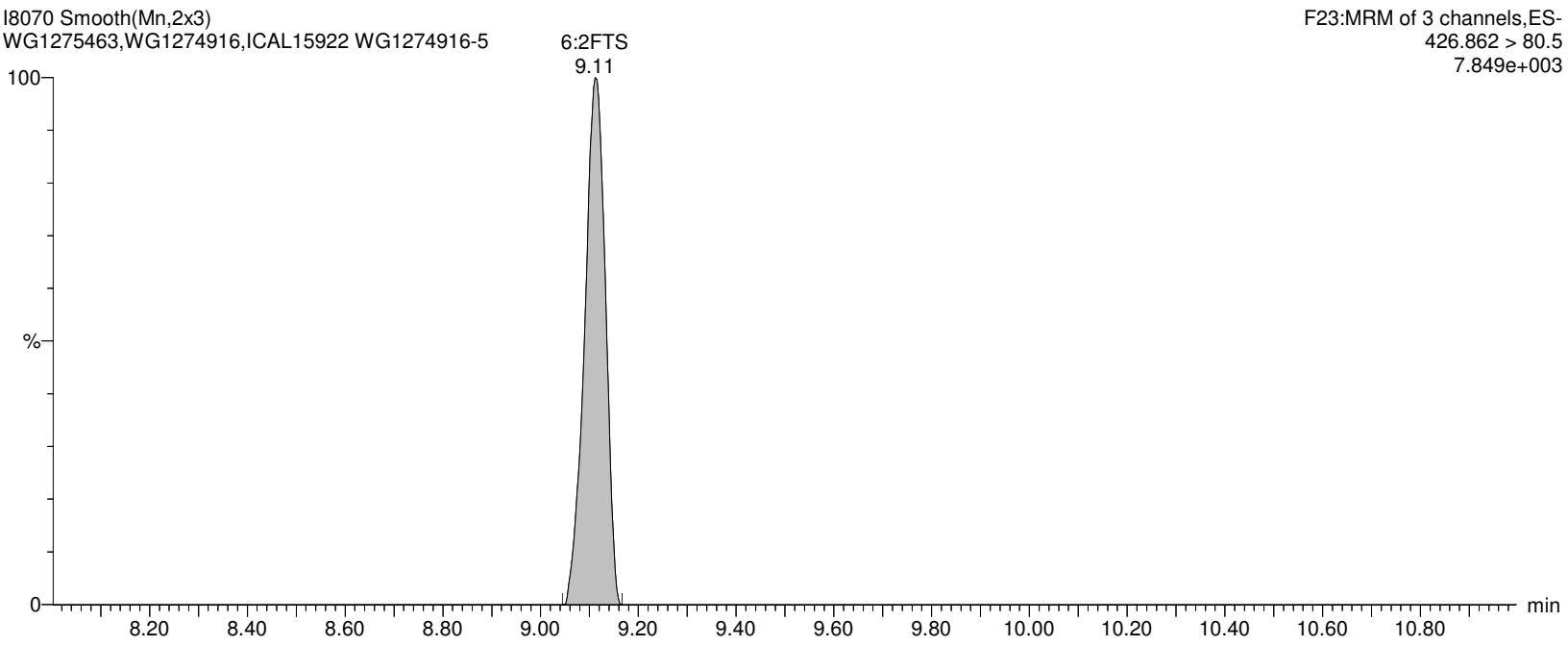
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
Last Altered: Thursday, August 22, 2019 13:45:42 Eastern Daylight Time
Printed: Thursday, August 22, 2019 13:49:33 Eastern Daylight Time

Name: I8070
ID: WG1274916-5
Date: 22-Aug-2019
Time: 12:50:24
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:C,2
Instrument: XEVO-TQSmicro#QEB0050
Inlet Method Name: C:\MassLynx\Data\2019\190822_537ISO.PRO\ACQUDB\LCMS_537_ISO_B
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6:2FTS



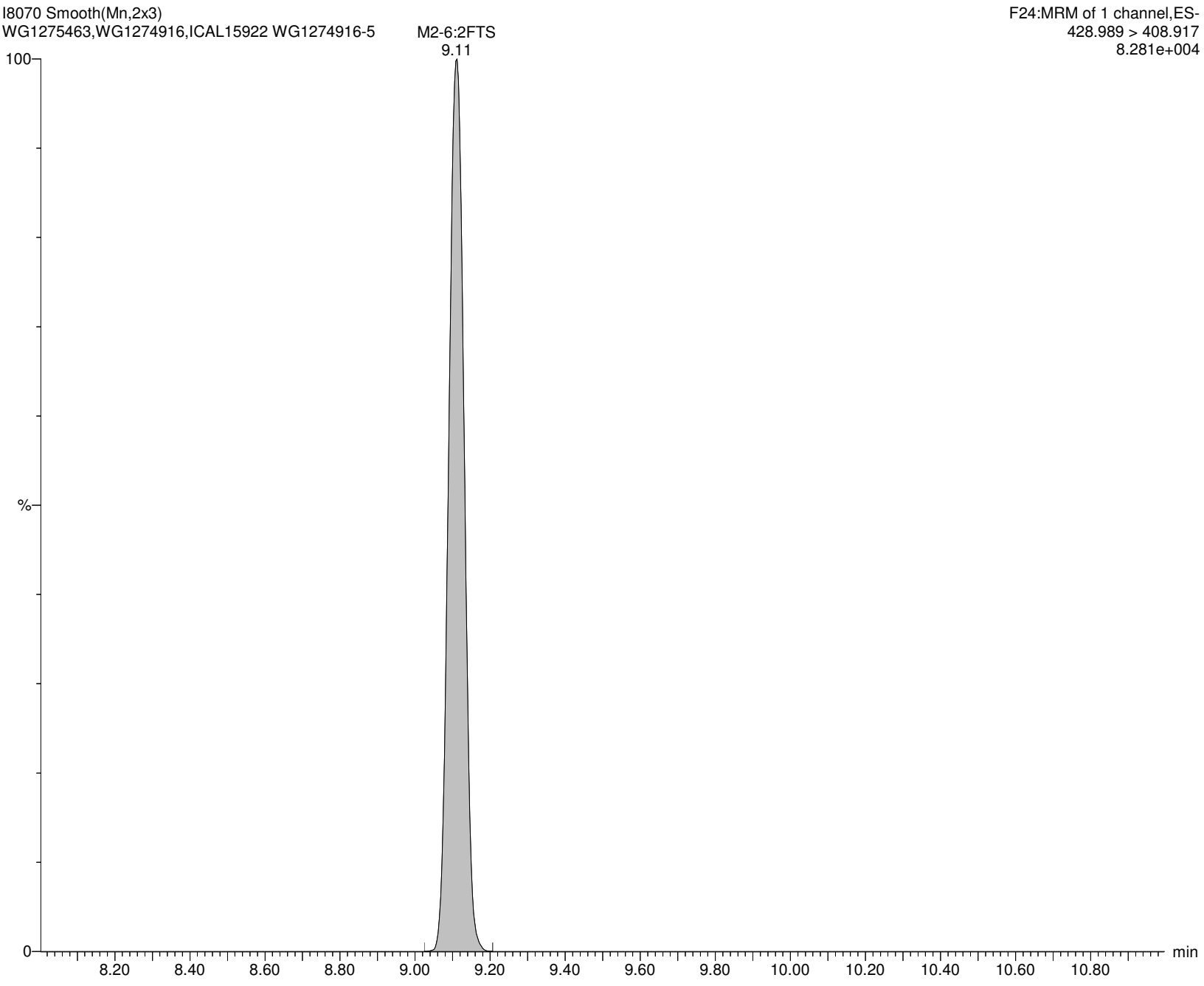


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, August 22, 2019 13:45:42 Eastern Daylight Time
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M2-6:2FTS

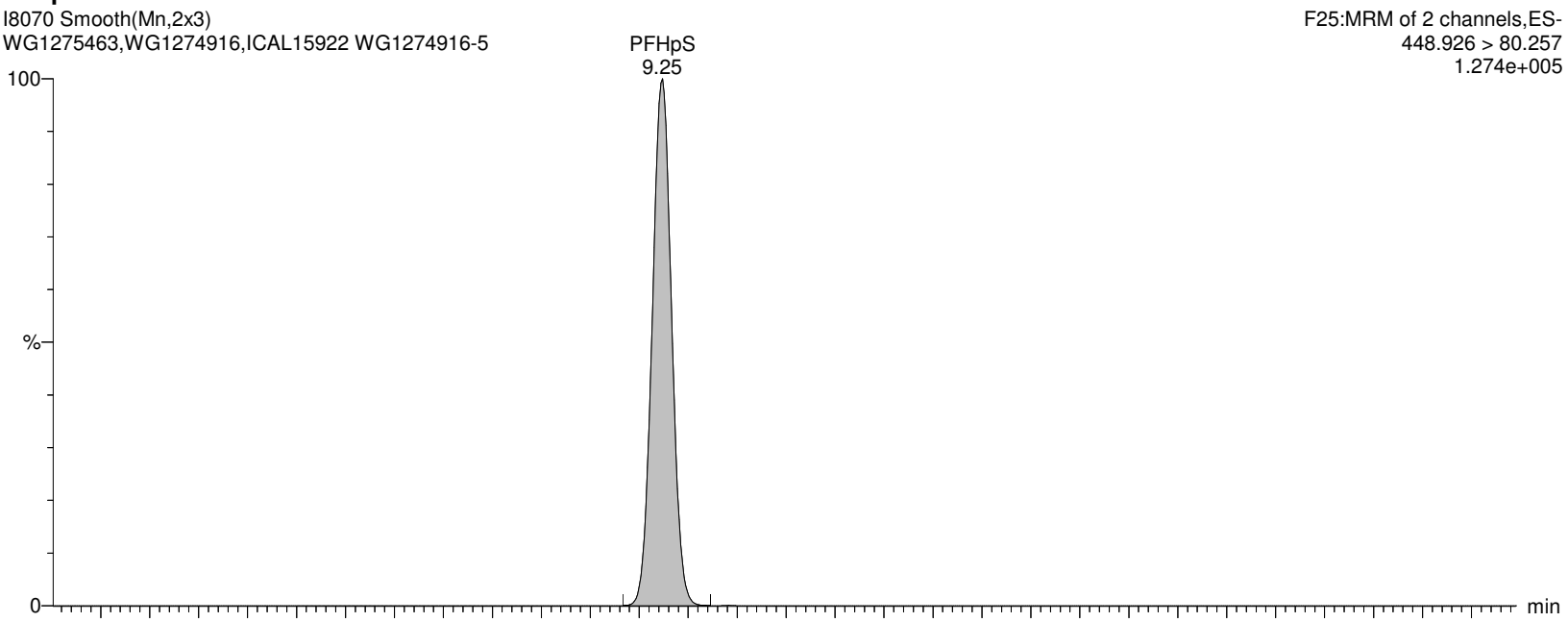


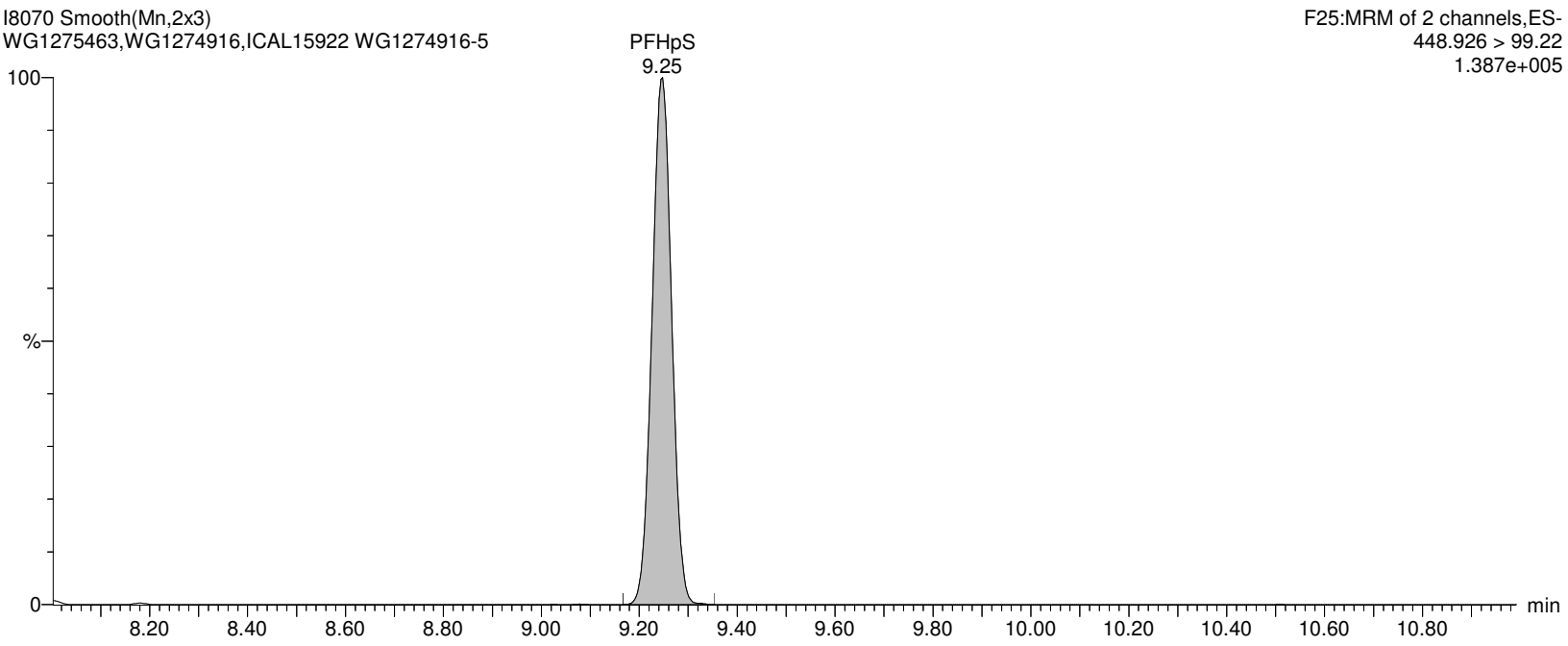
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
Last Altered: Thursday, August 22, 2019 13:45:42 Eastern Daylight Time
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PFHpS



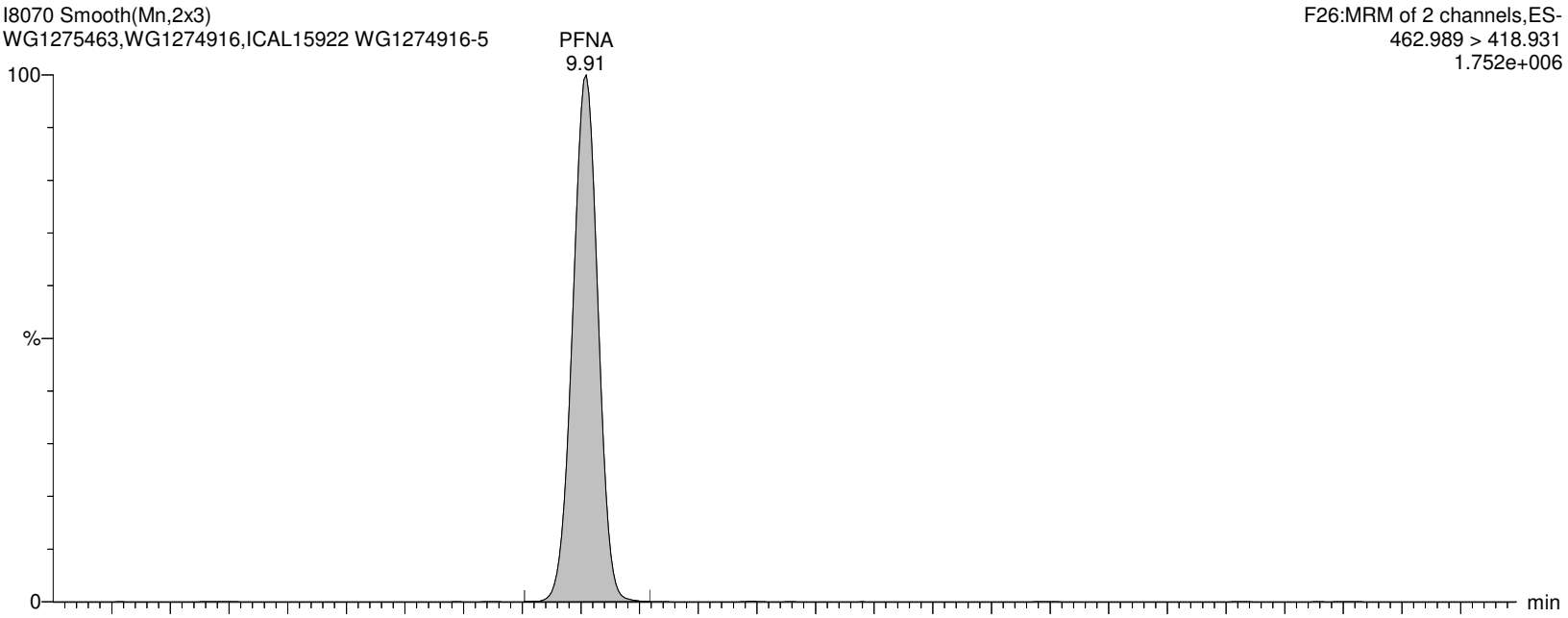


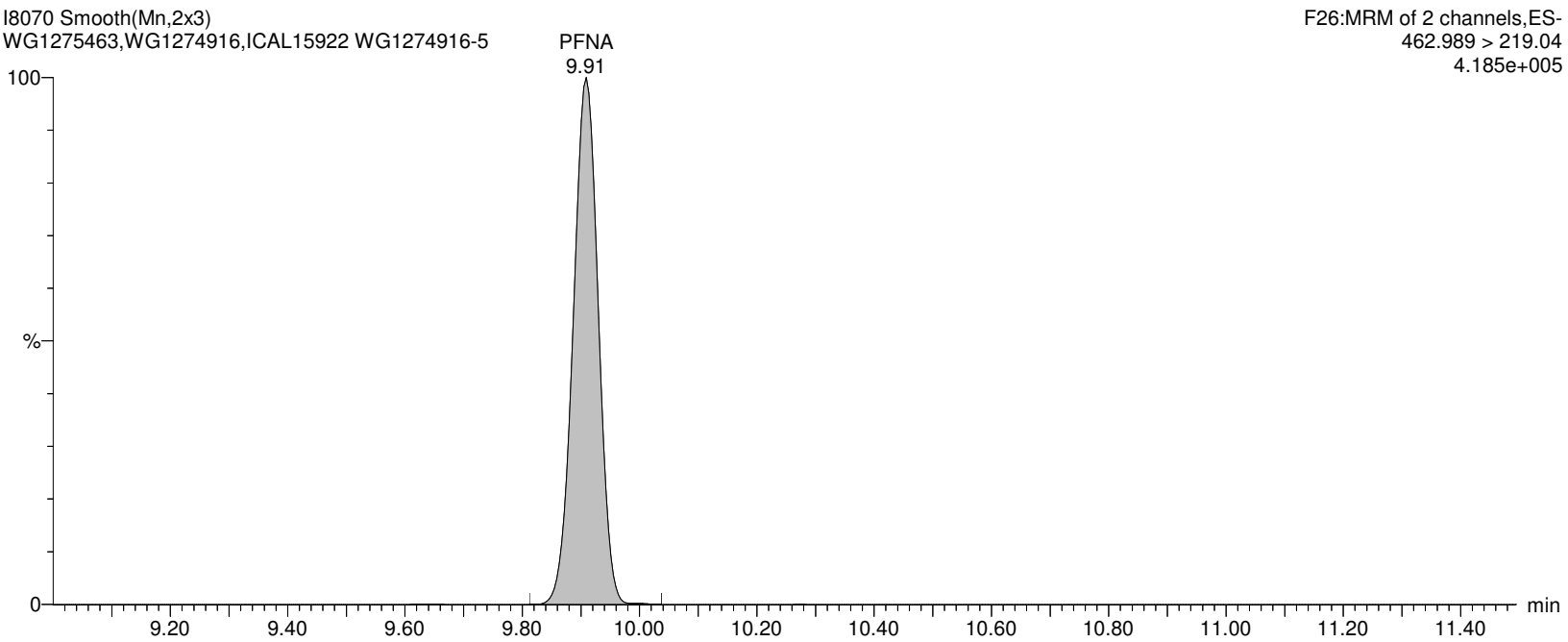
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
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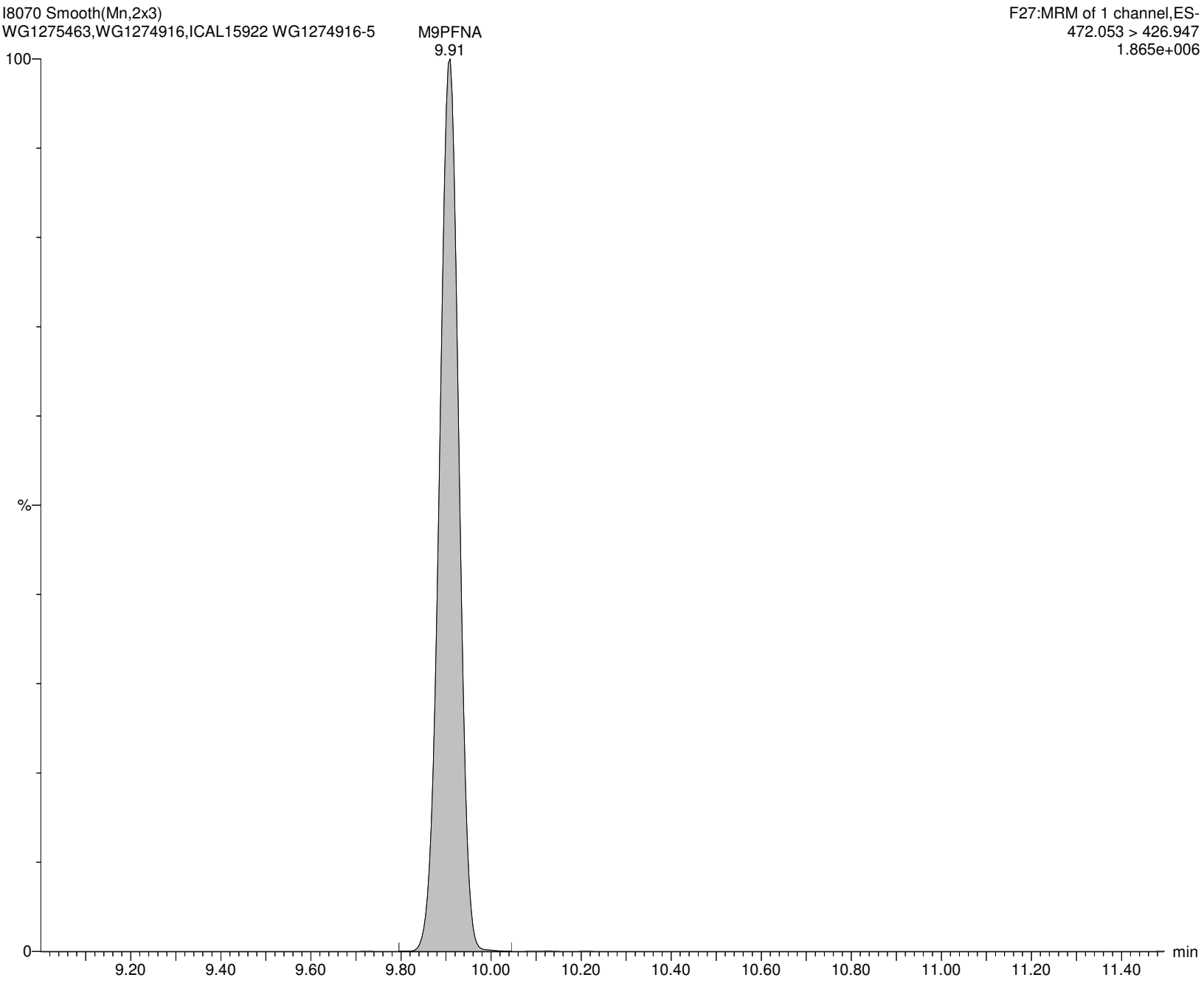


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, August 22, 2019 13:45:42 Eastern Daylight Time
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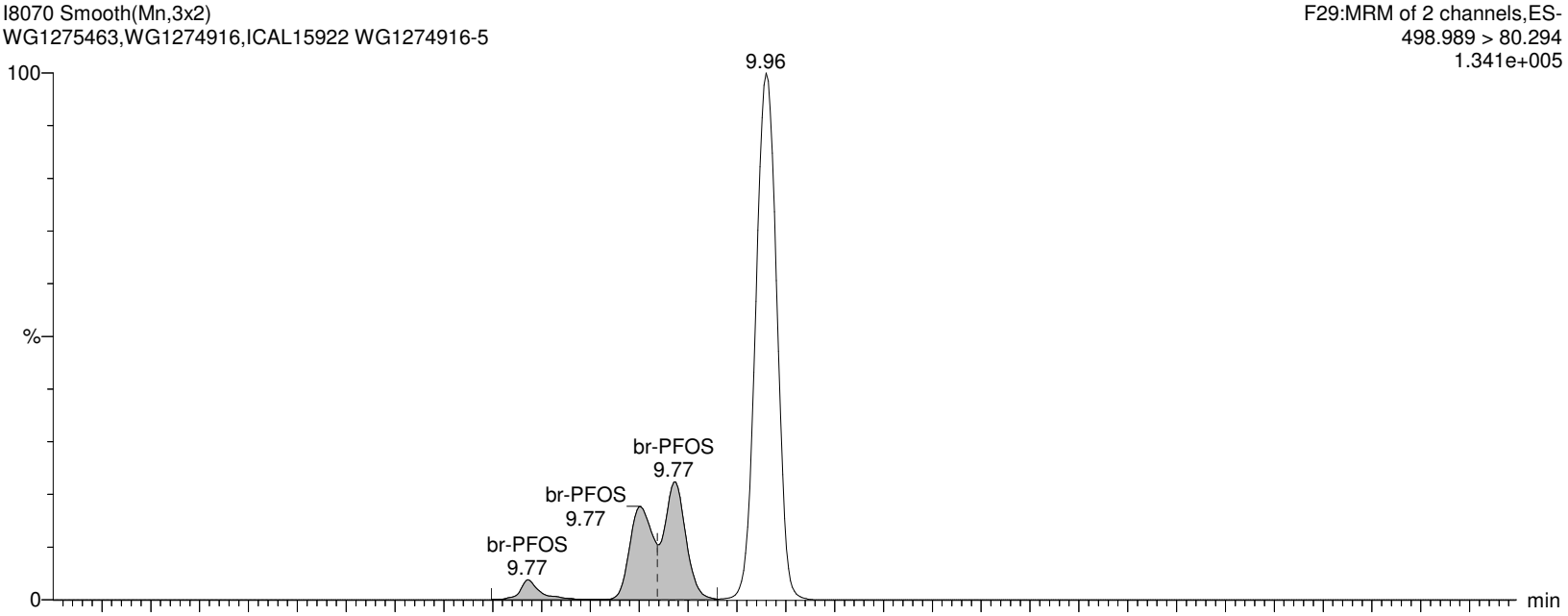


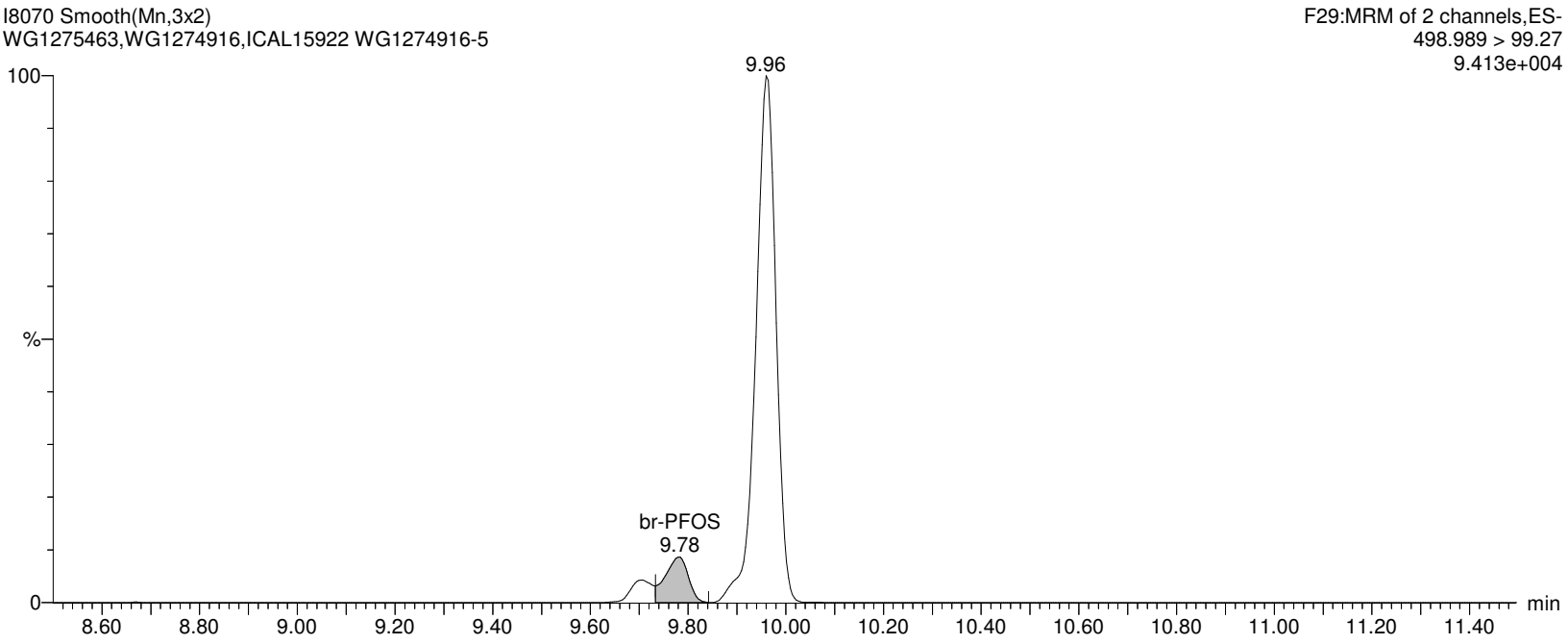
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
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br-PFOS



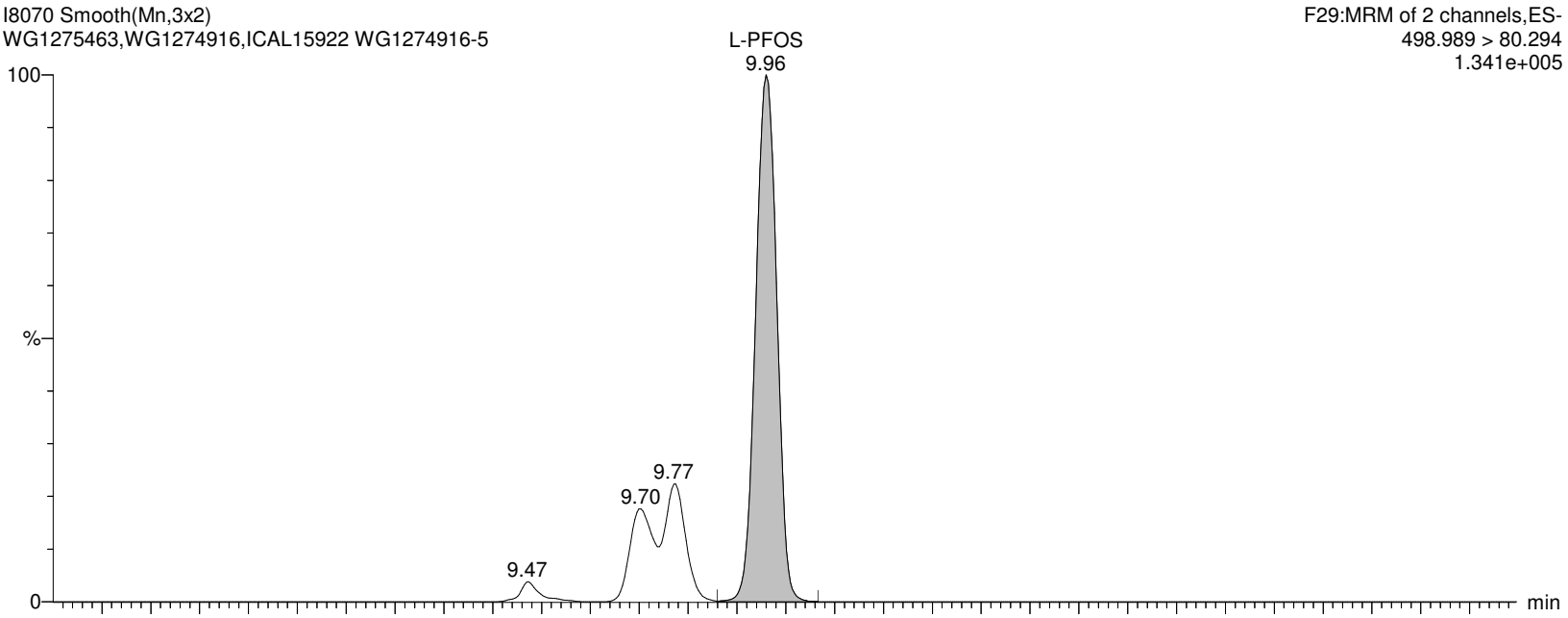


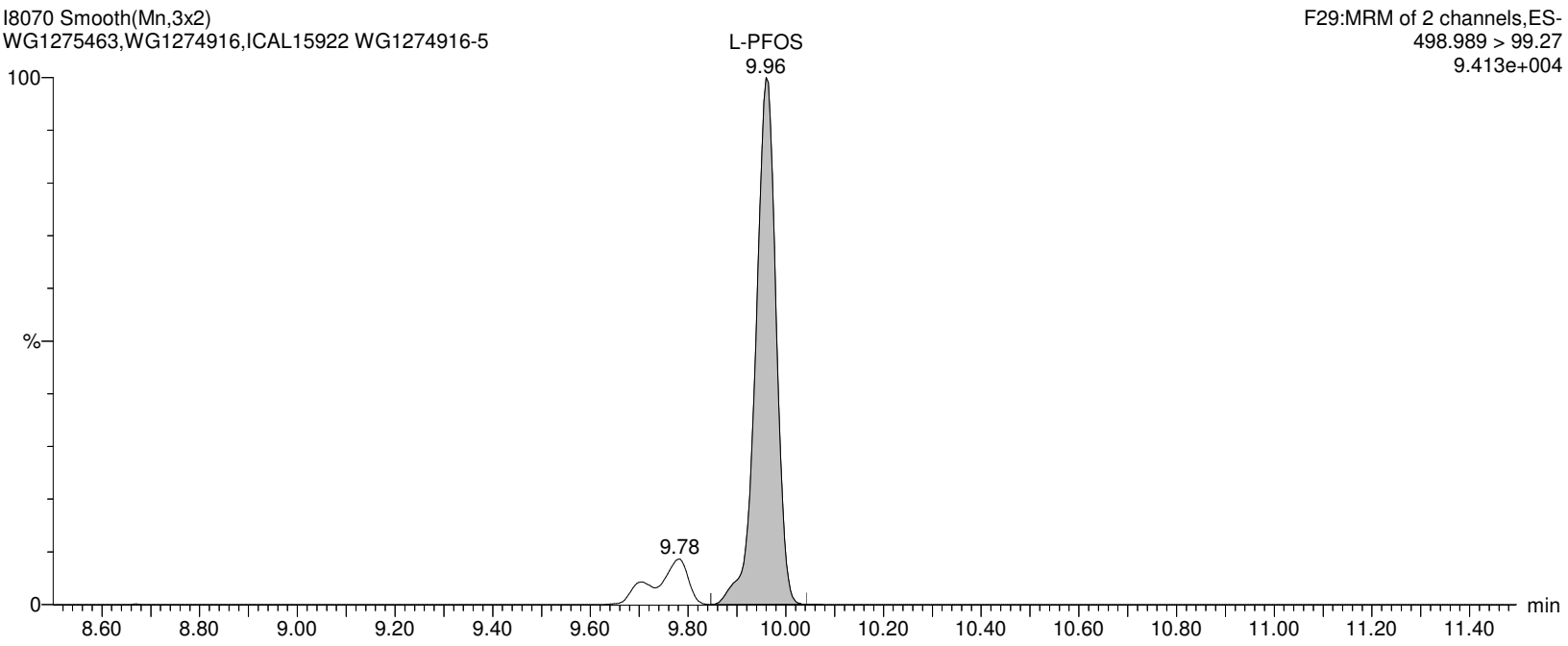
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
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L-PFOS



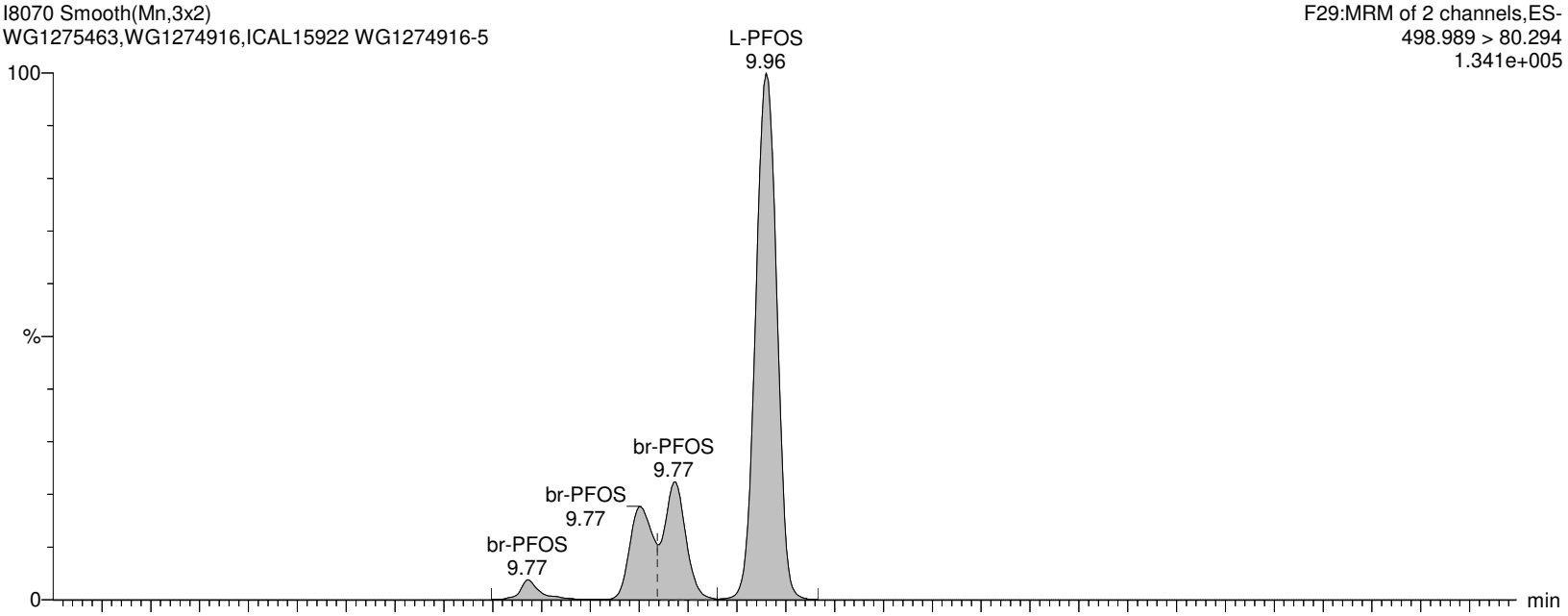


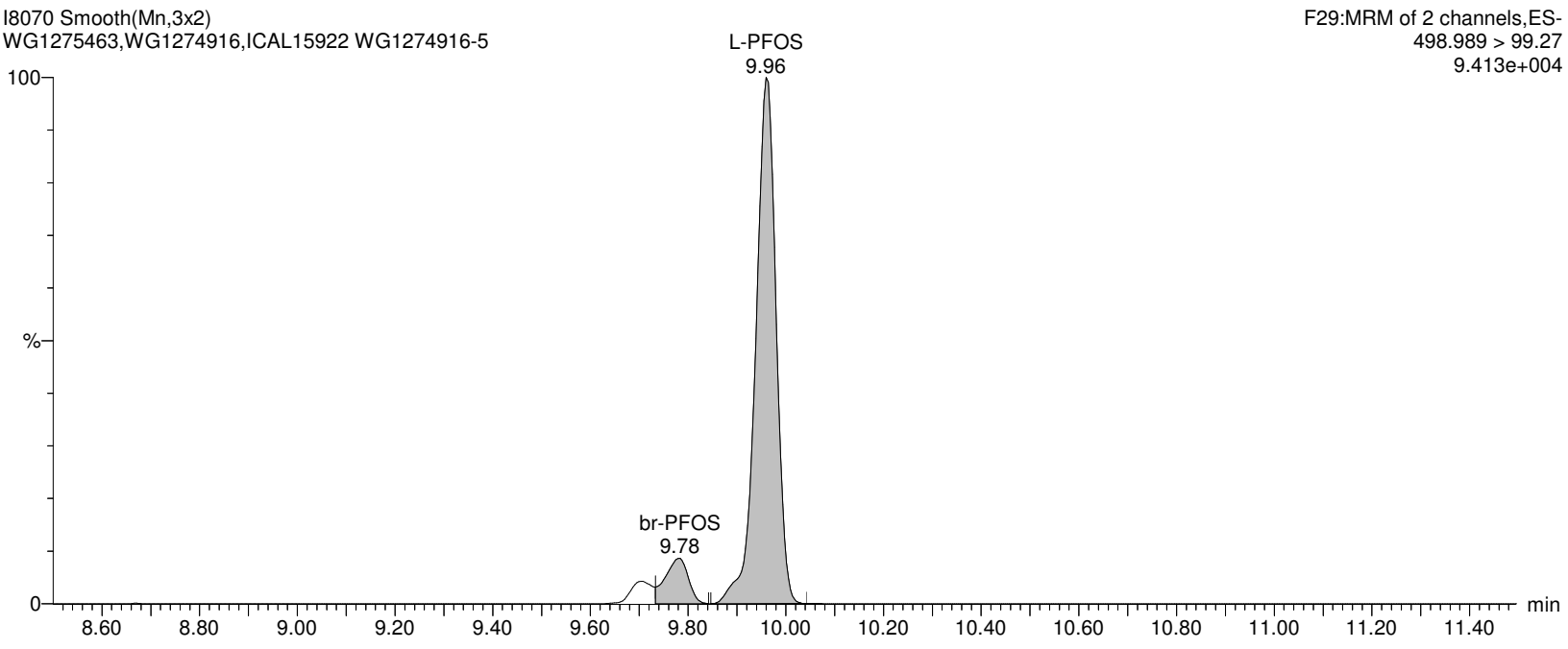
all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
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Vial: 1:C,2
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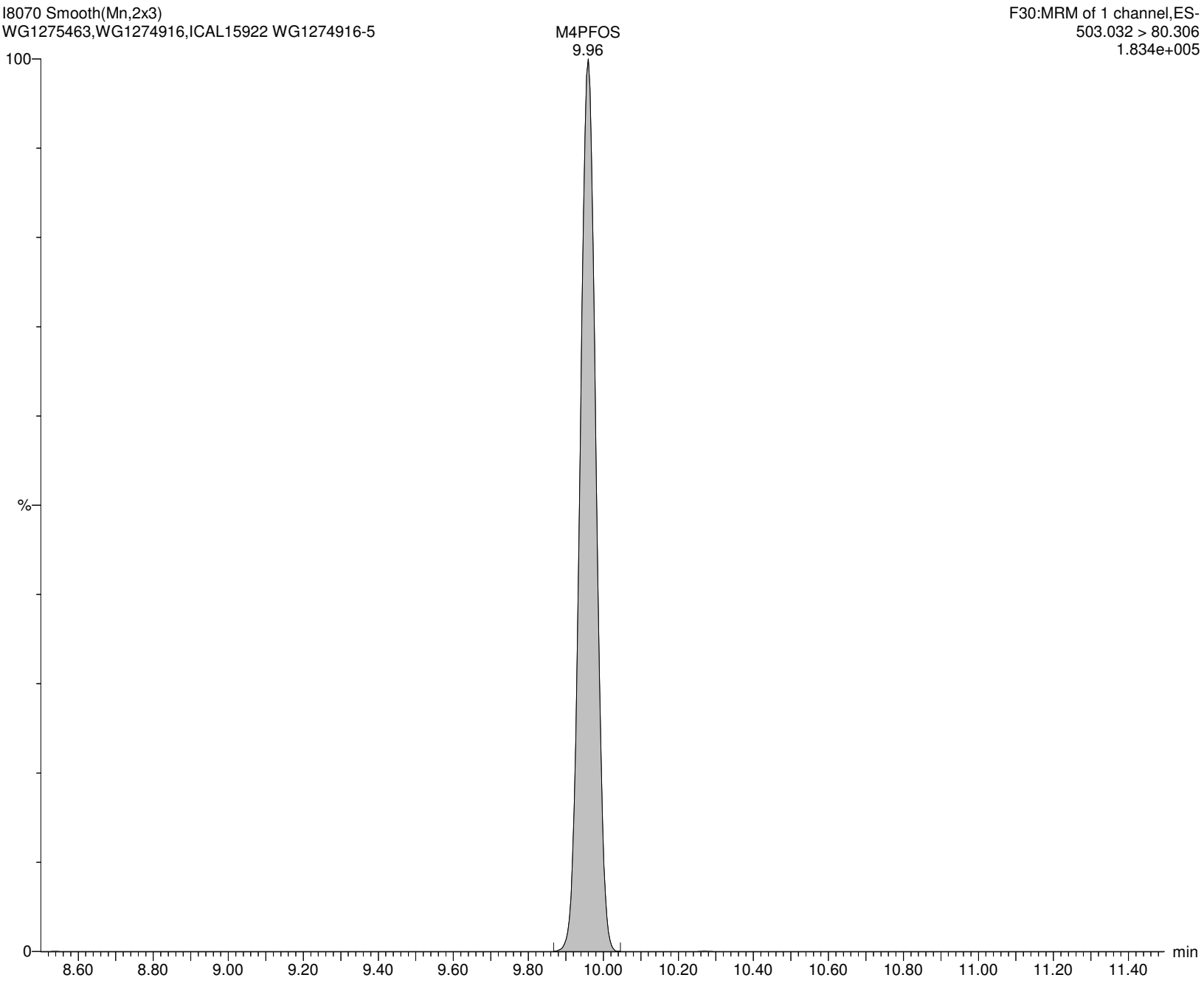


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, August 22, 2019 13:45:42 Eastern Daylight Time
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Date: 22-Aug-2019
Time: 12:50:24
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User: LCMS02:JW
Vial: 1:C,2
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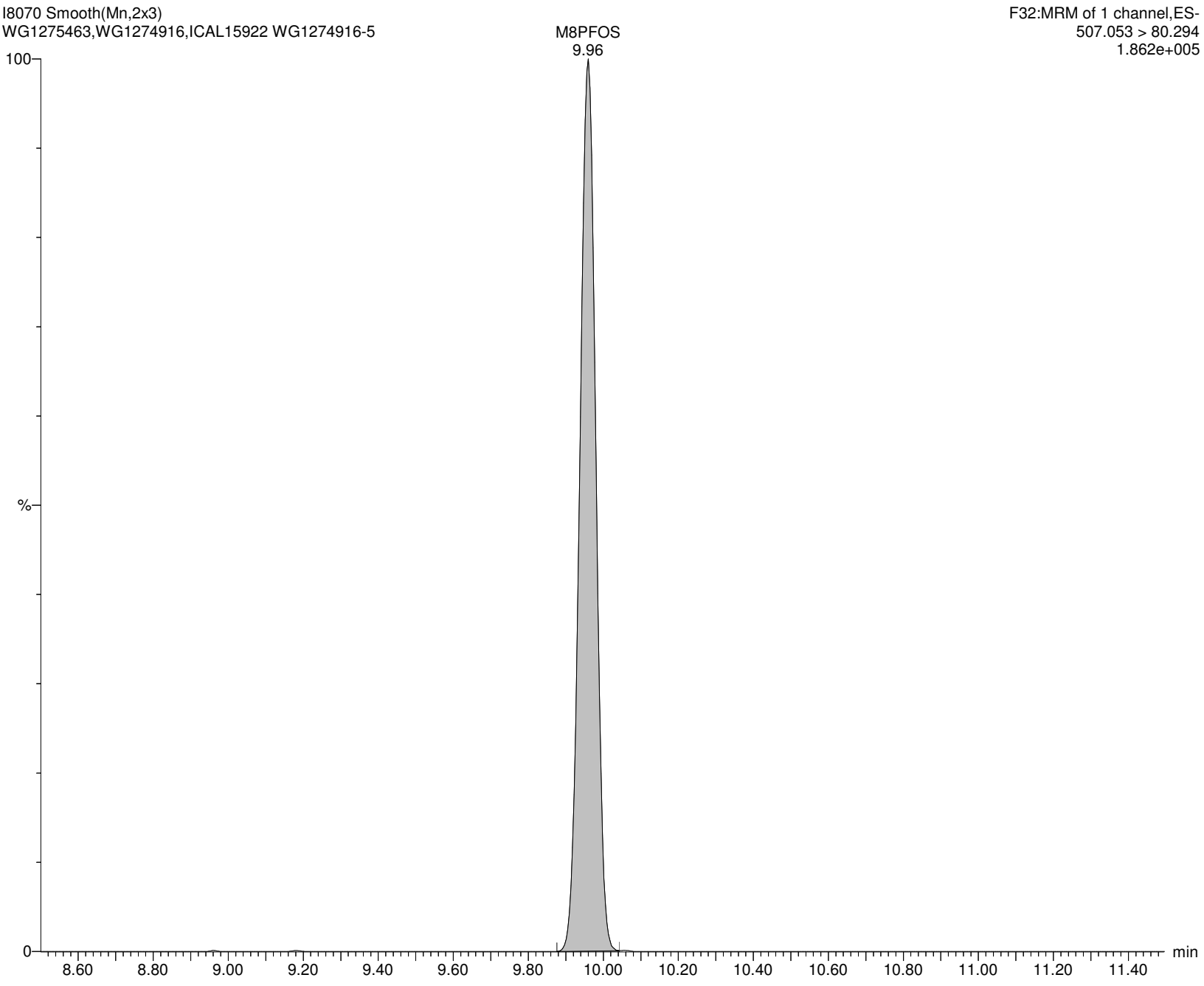


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
Last Altered: Thursday, August 22, 2019 13:45:42 Eastern Daylight Time
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Vial: 1:C,2
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M8PFOS

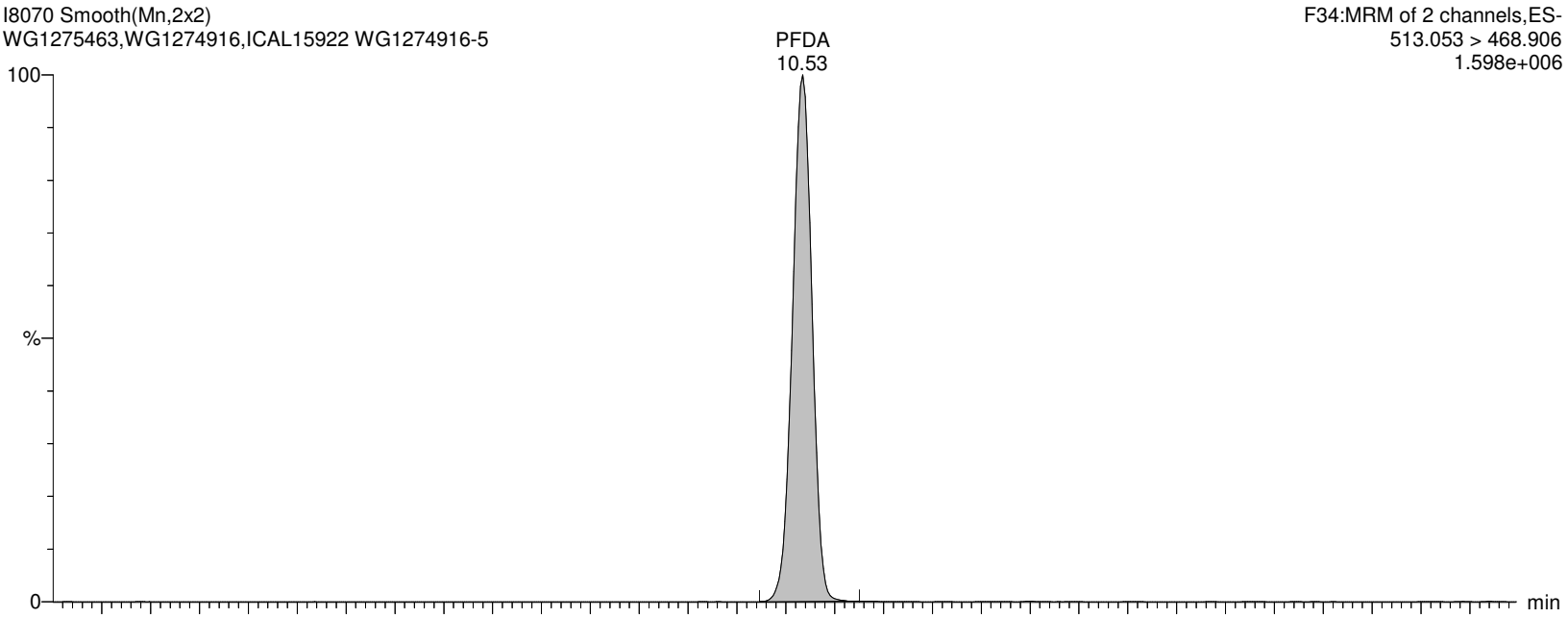


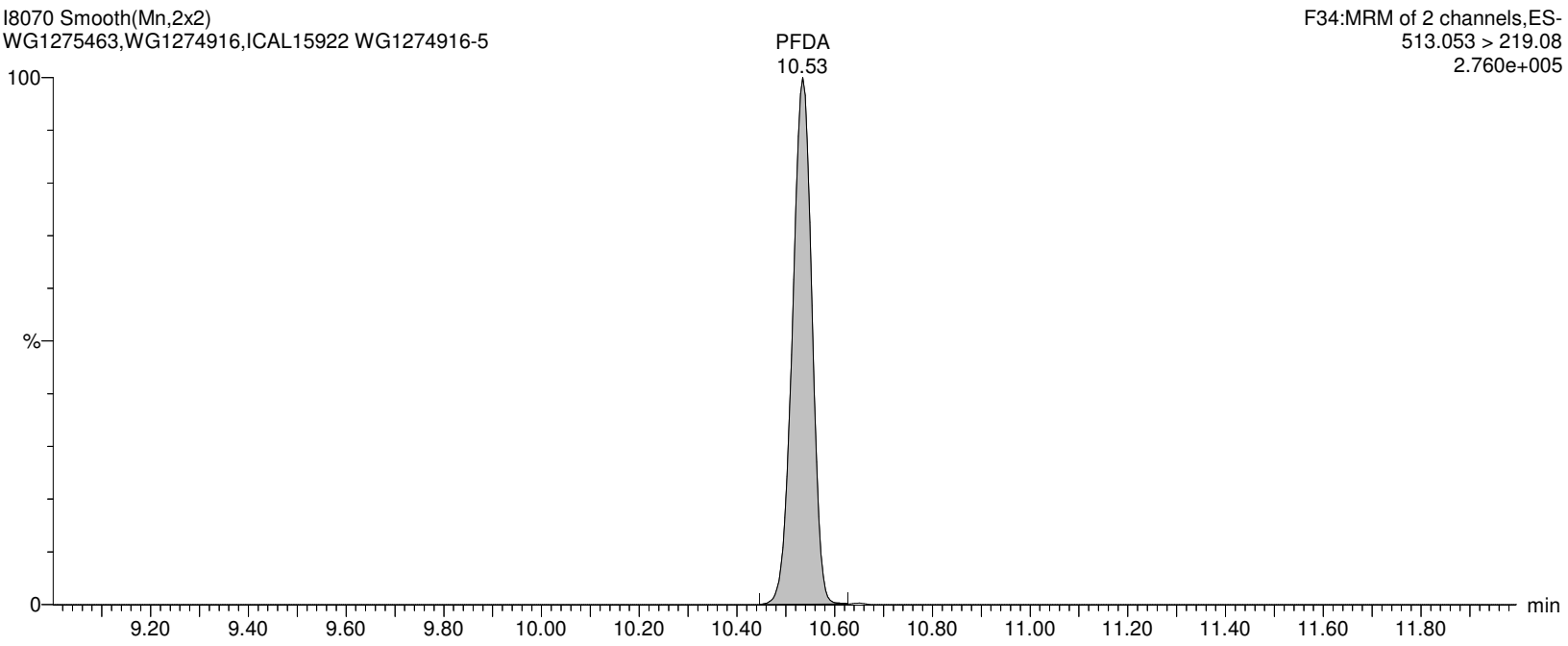
all concentration units in (ng/mL)

Alpha Analytical Inc.
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Vial: 1:C,2
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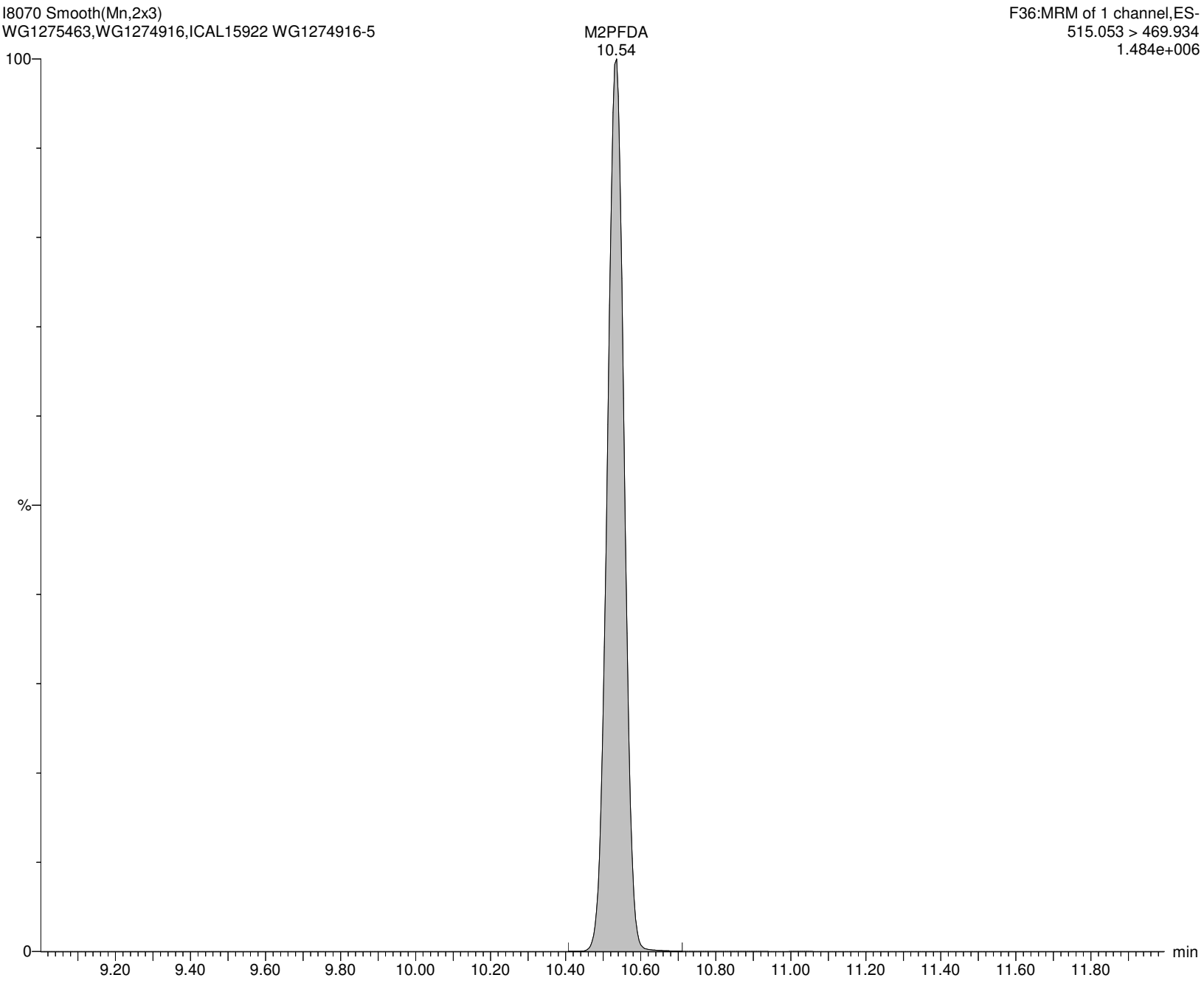


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
Last Altered: Thursday, August 22, 2019 13:45:42 Eastern Daylight Time
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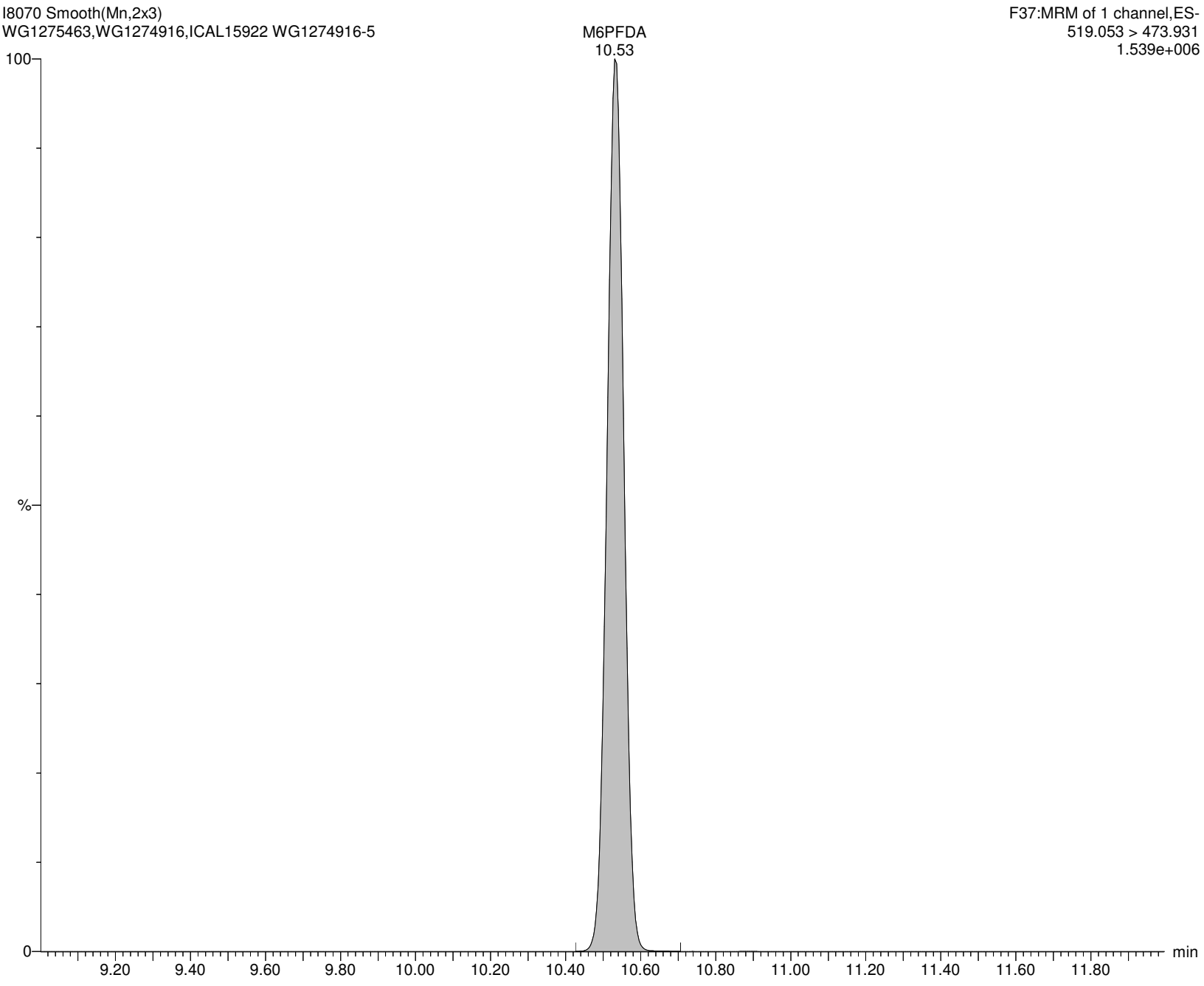


all concentration units in (ng/mL)

Alpha Analytical Inc.
Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
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M6PFDA

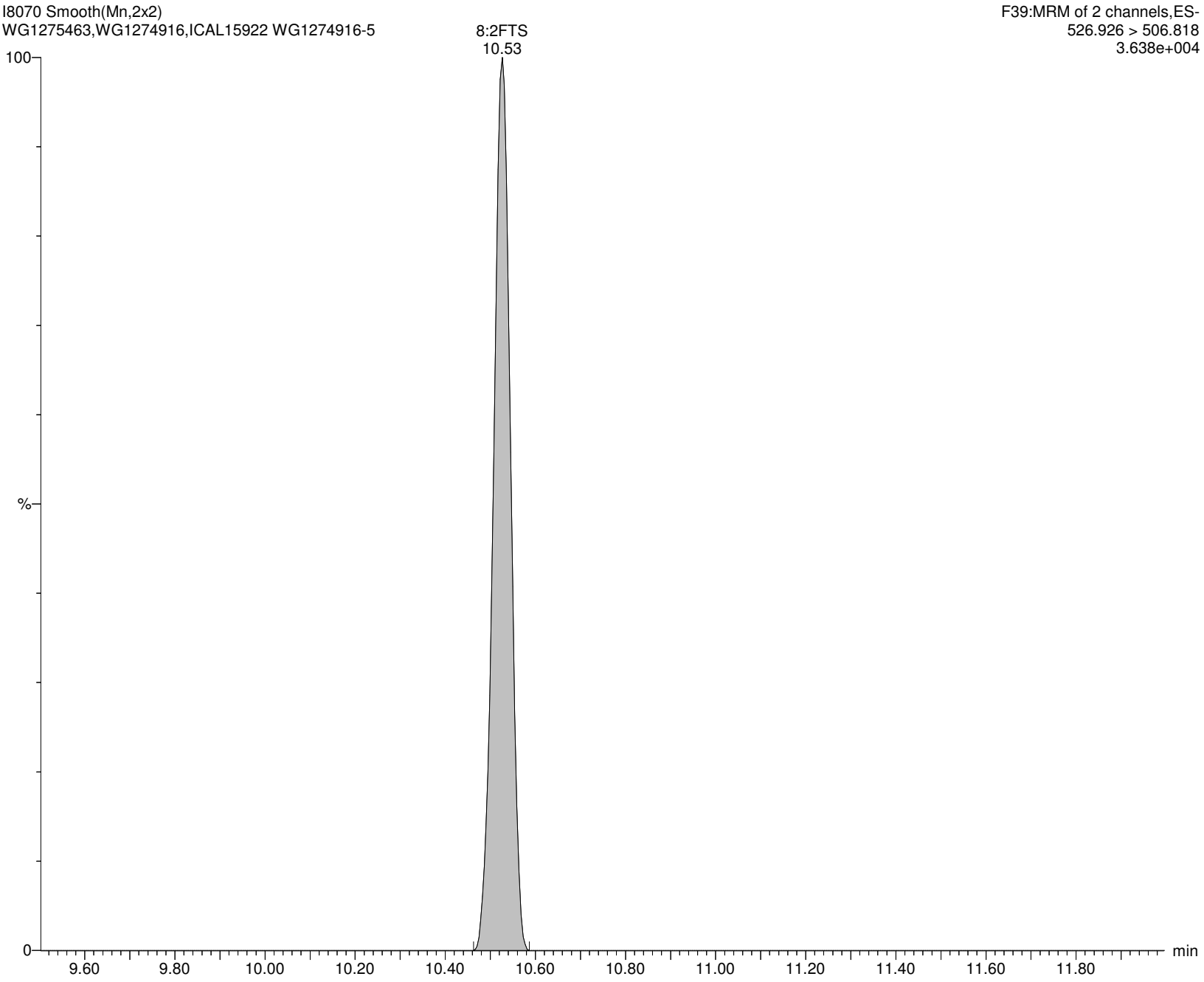


all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
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8:2FTS

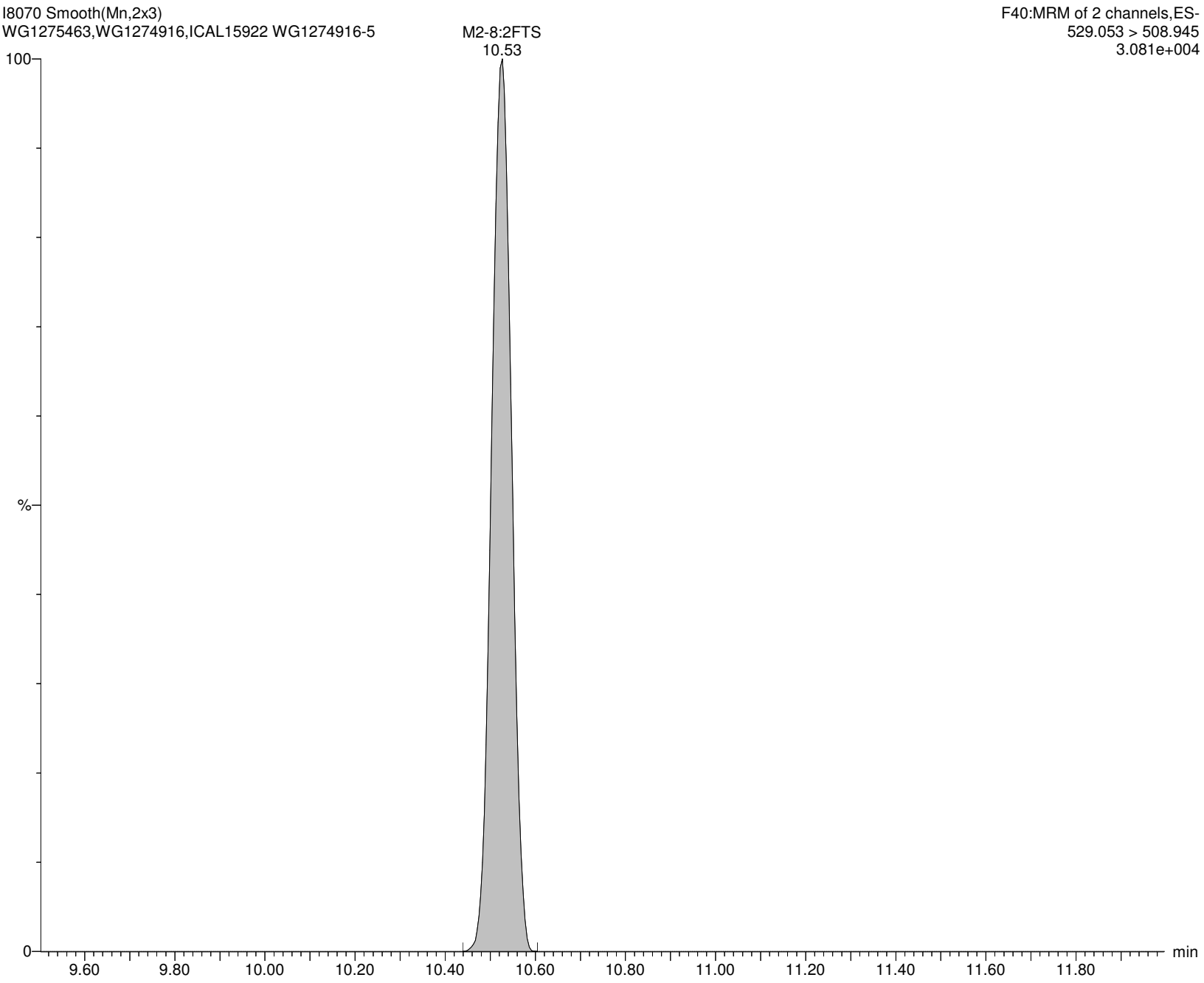


all concentration units in (ng/mL)

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Dataset: C:\MassLynx\Data\2019\190822_537ISO.PRO\Data\WG1275463A.qld
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M2-8:2FTS

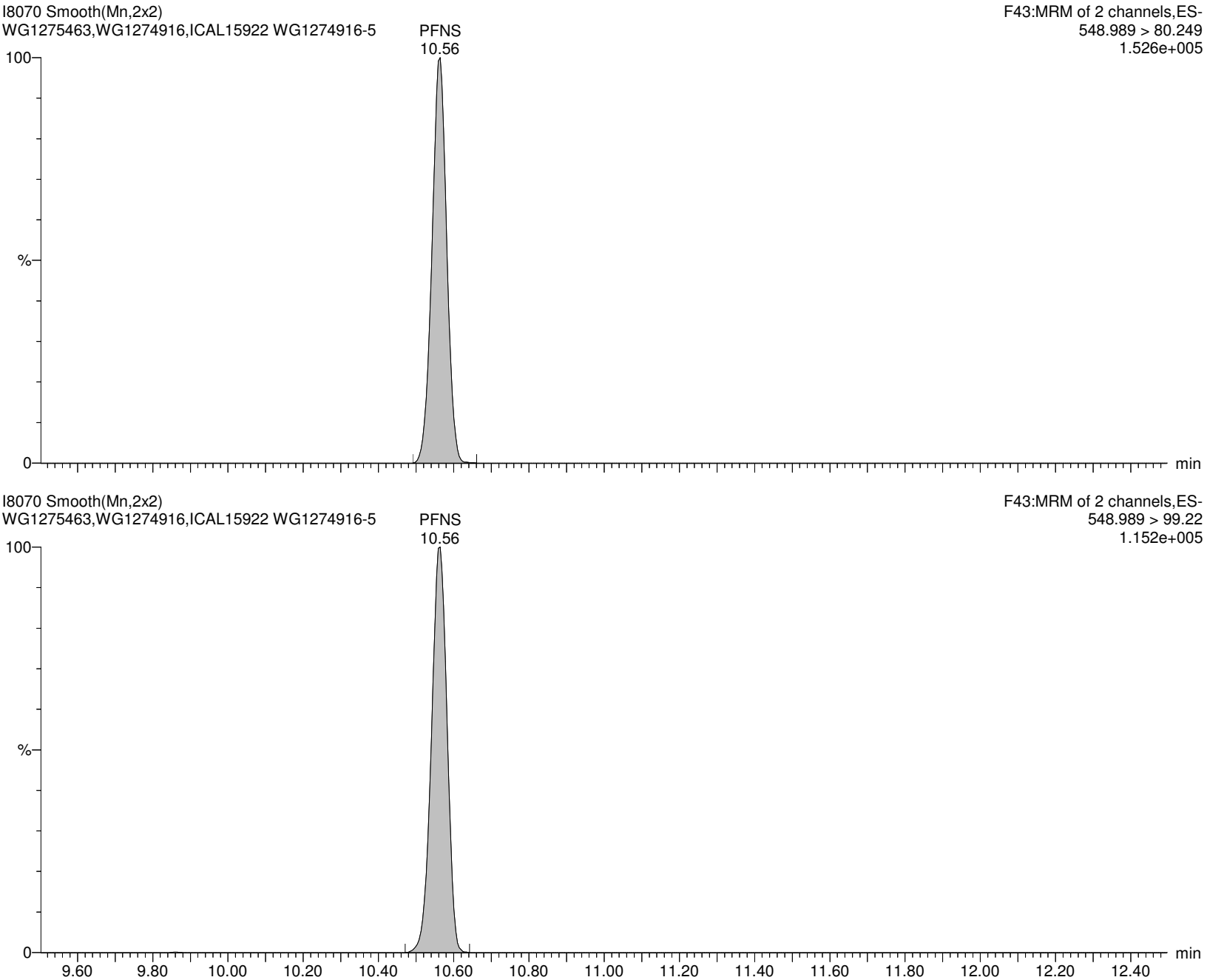


all concentration units in (ng/mL)

Alpha Analytical Inc.
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Last Altered: Thursday, August 22, 2019 13:45:42 Eastern Daylight Time
Printed: Thursday, August 22, 2019 13:49:33 Eastern Daylight Time

Name: I8070
ID: WG1274916-5
Date: 22-Aug-2019
Time: 12:50:24
Description: WG1275463,WG1274916,ICAL15922
User: LCMS02:JW
Vial: 1:C,2
Instrument: XEVO-TQSmicro#QEB0050
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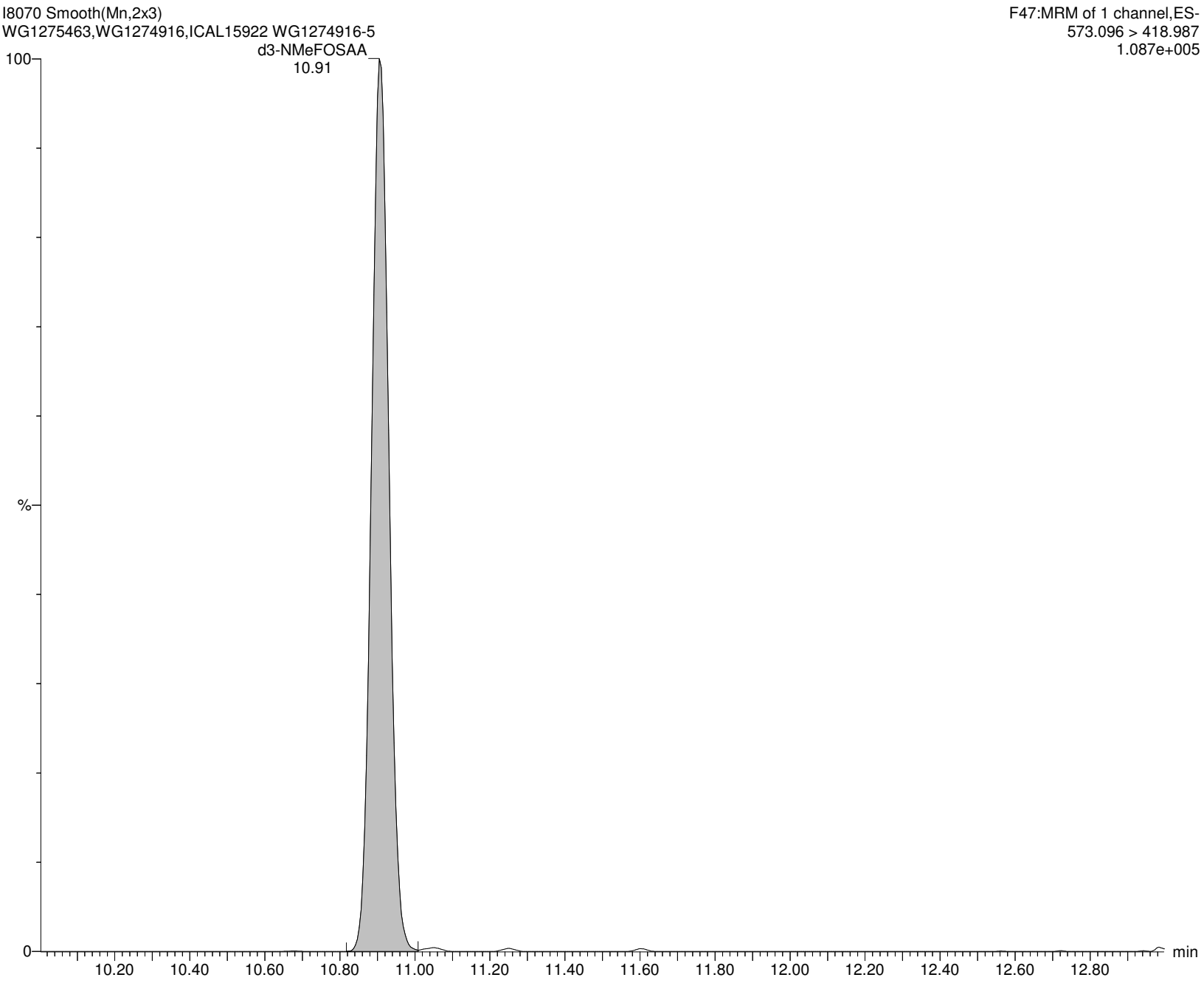


all concentration units in (ng/mL)

Alpha Analytical Inc.
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d3-NMeFOSAA

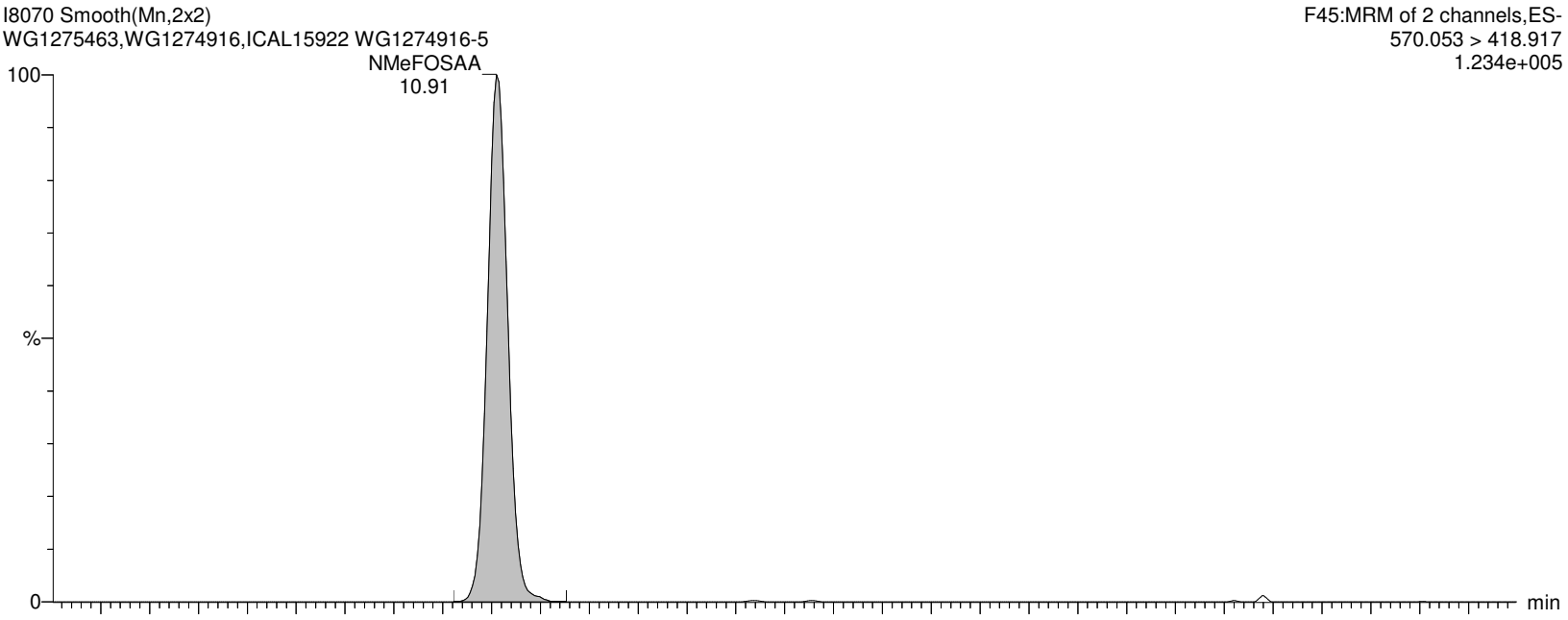


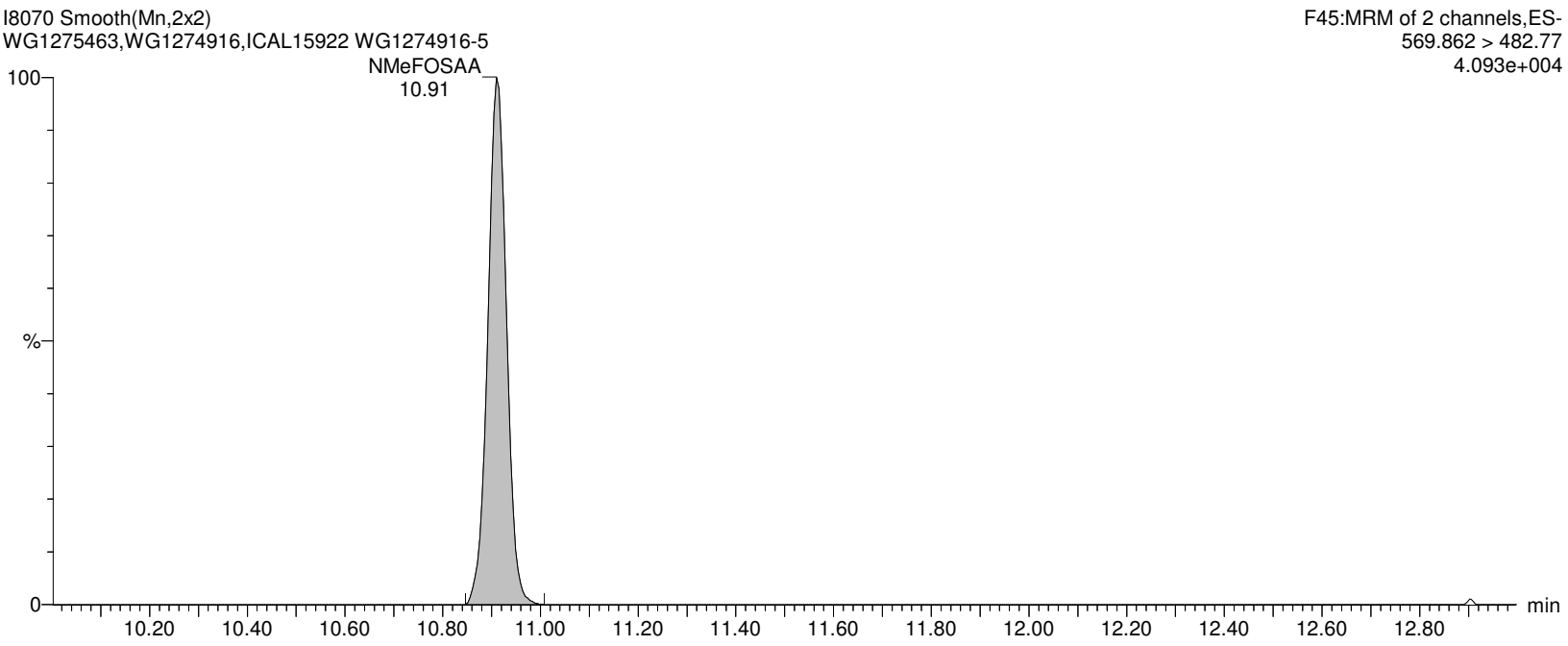
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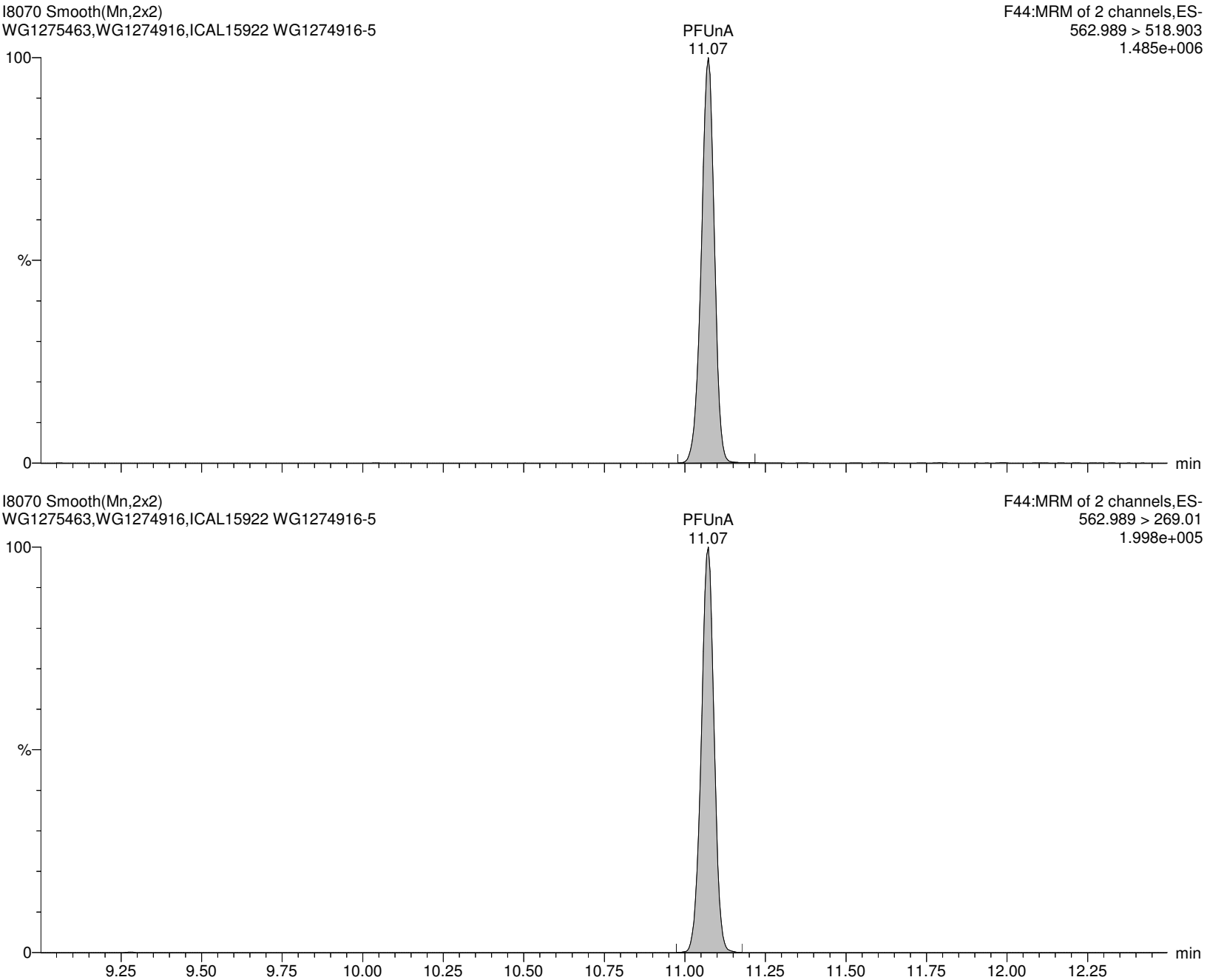


all concentration units in (ng/mL)

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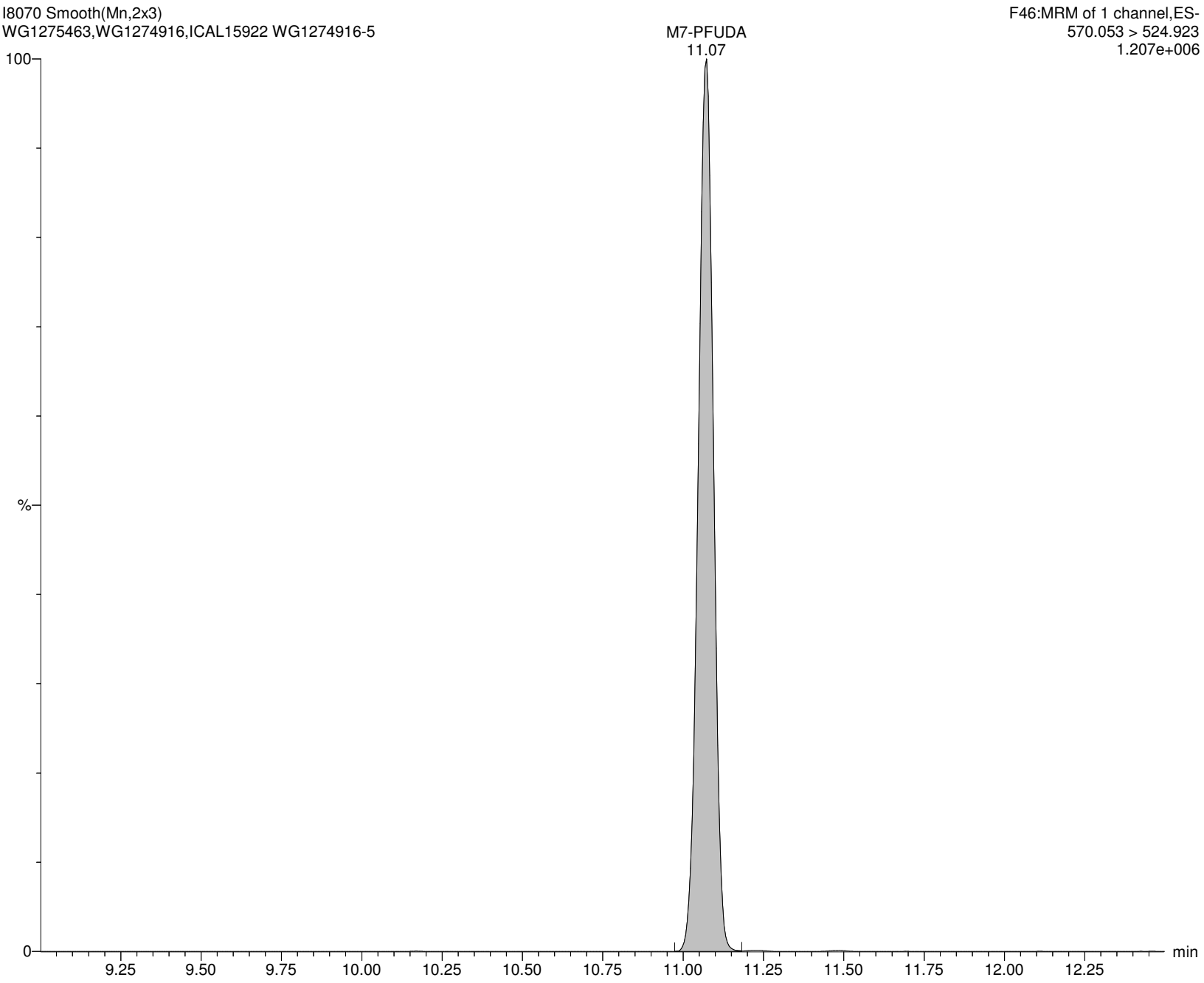


all concentration units in (ng/mL)

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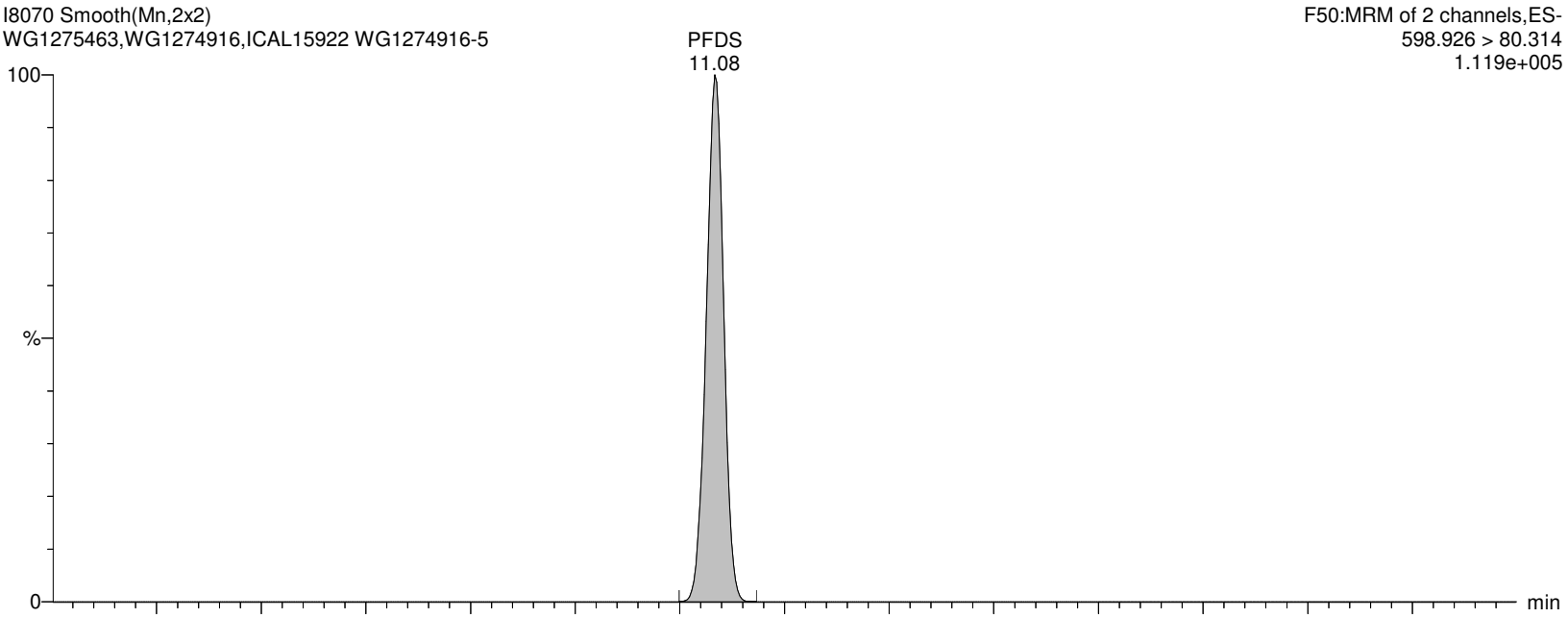


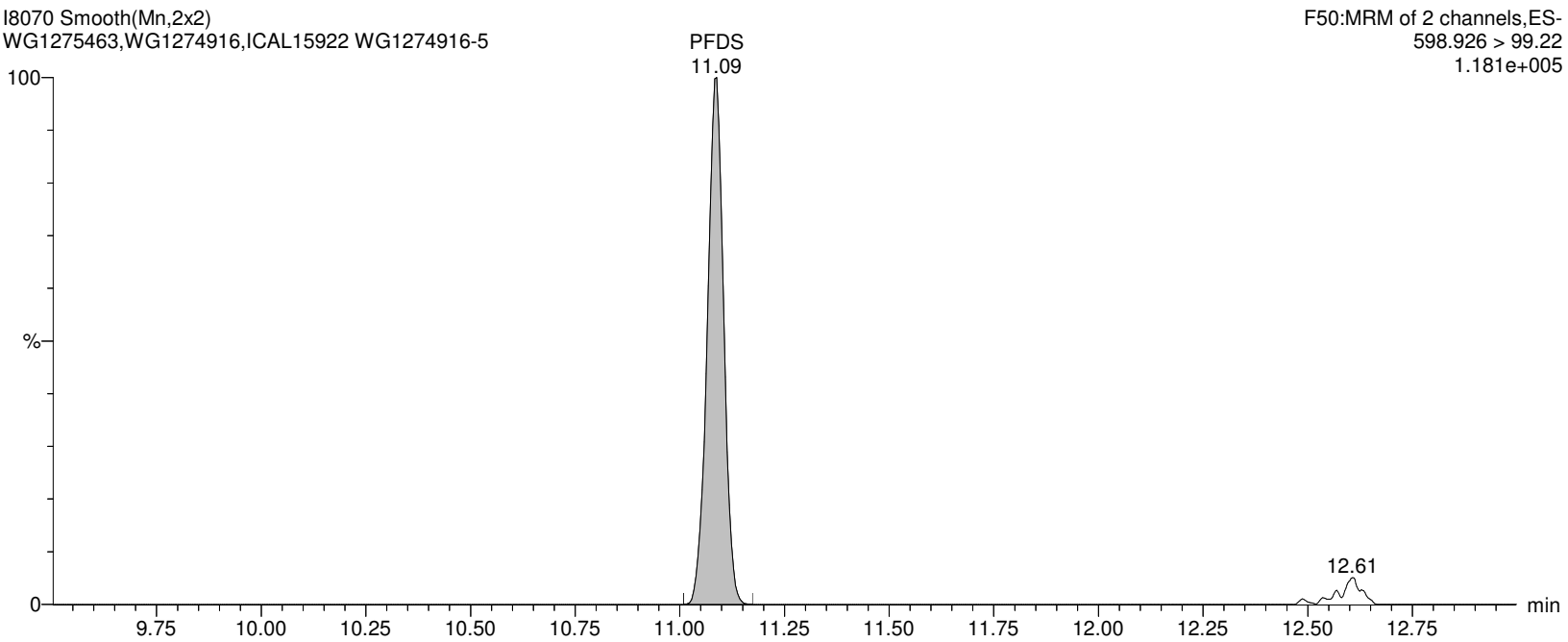
all concentration units in (ng/mL)

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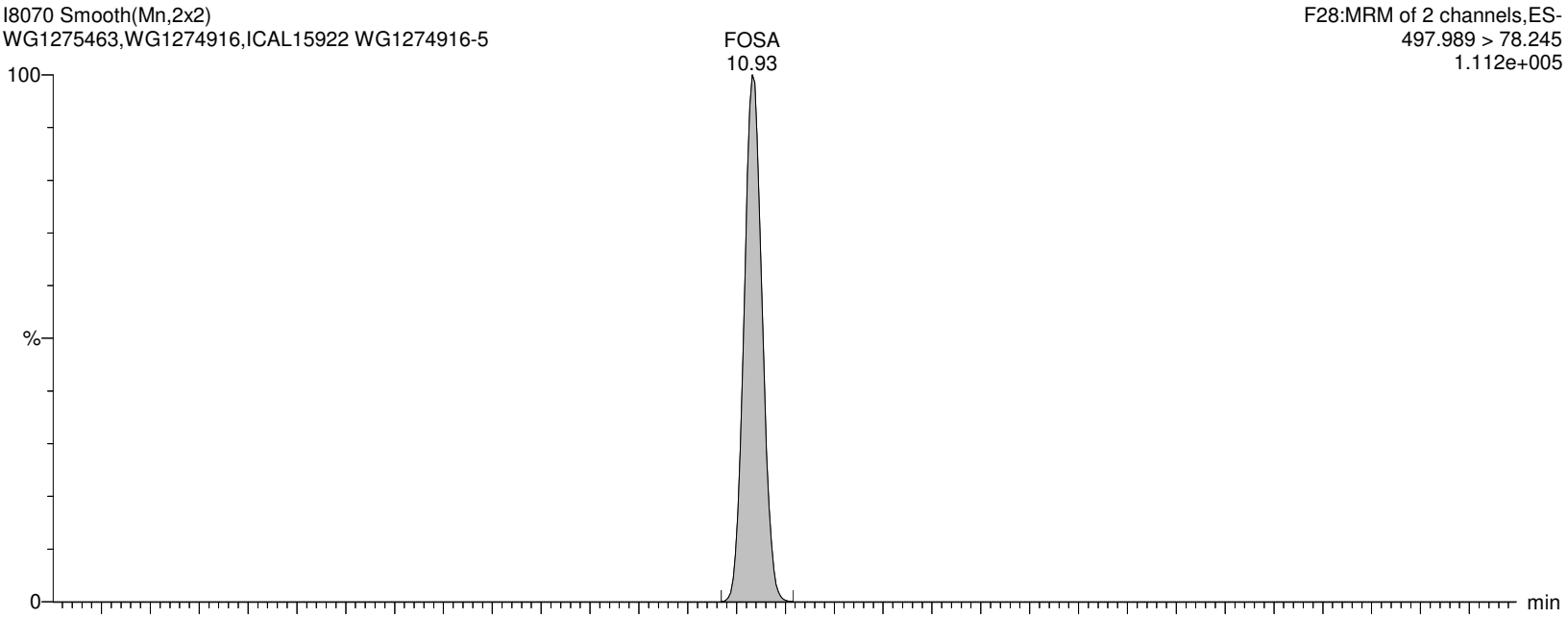


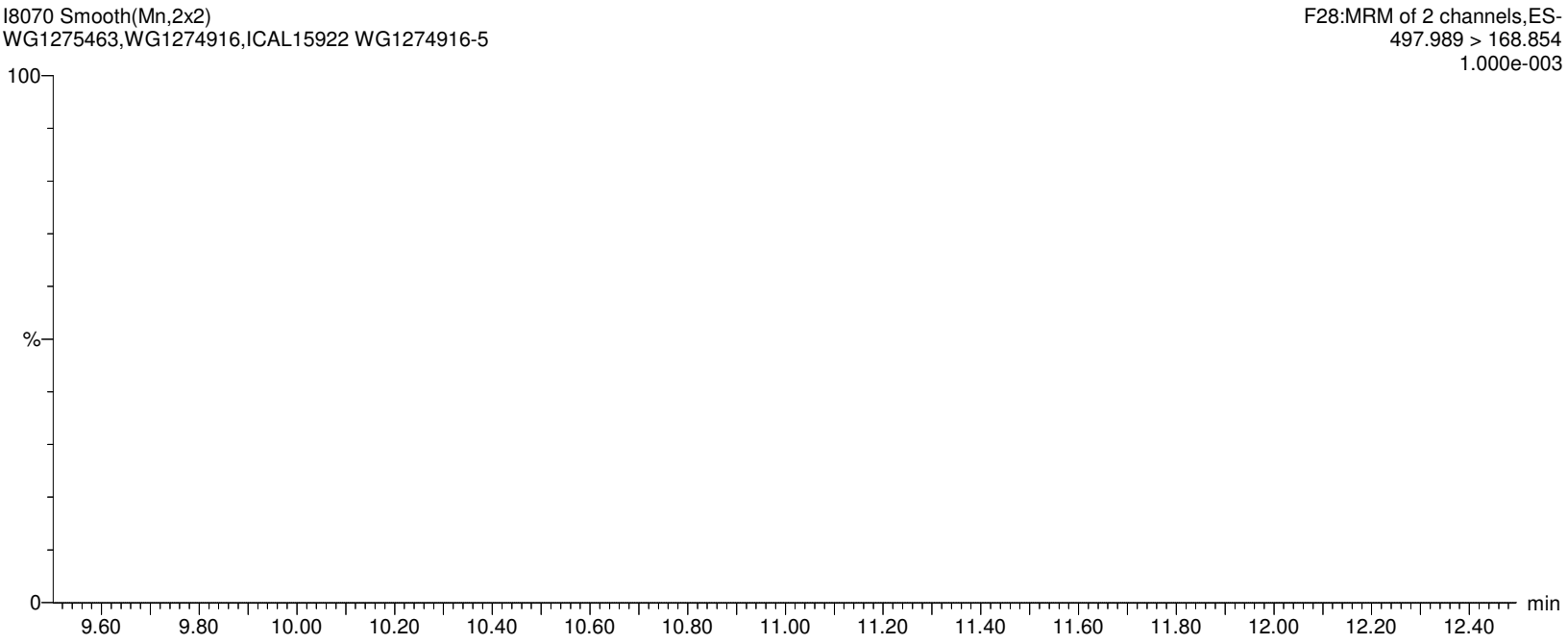
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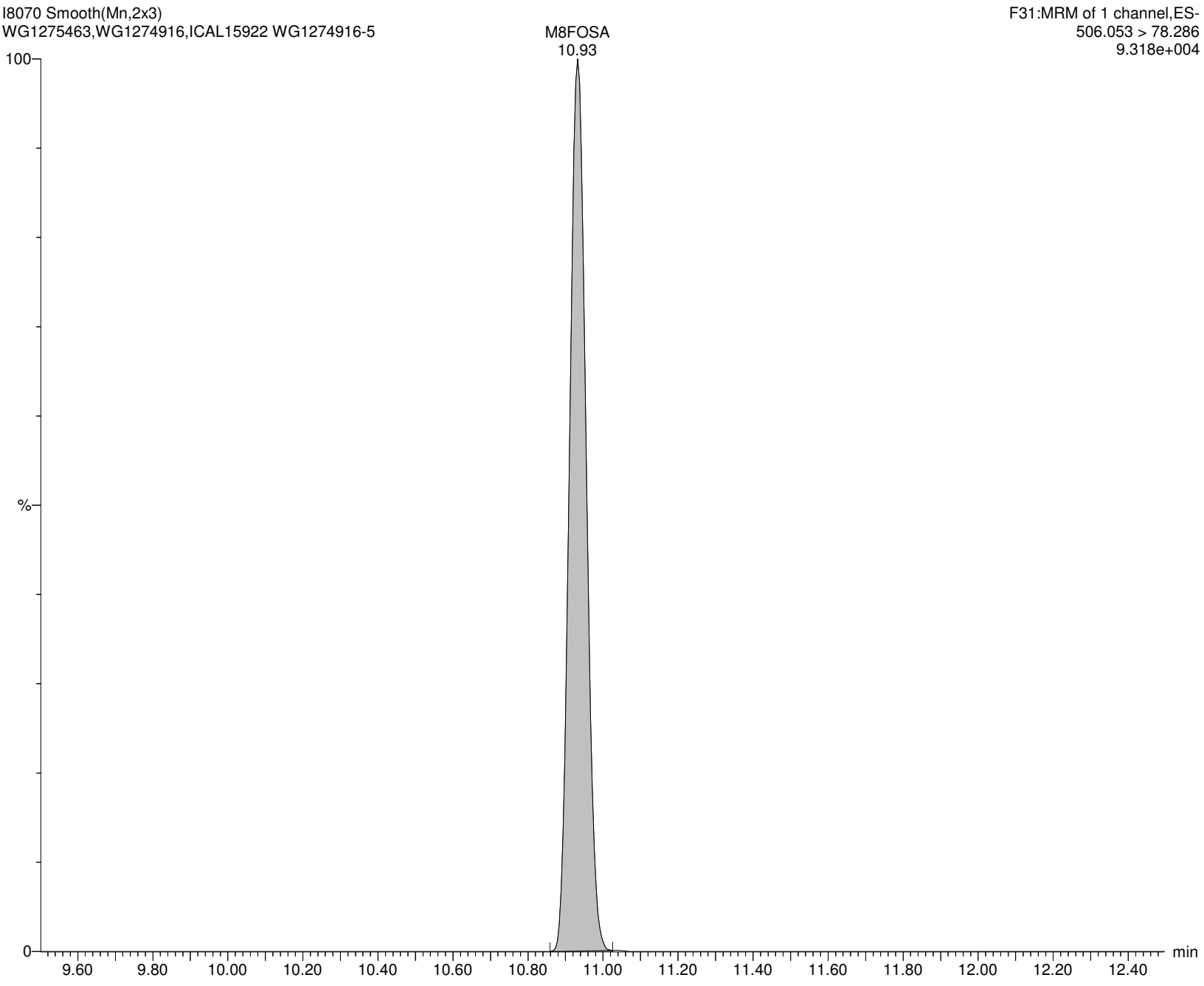


all concentration units in (ng/mL)

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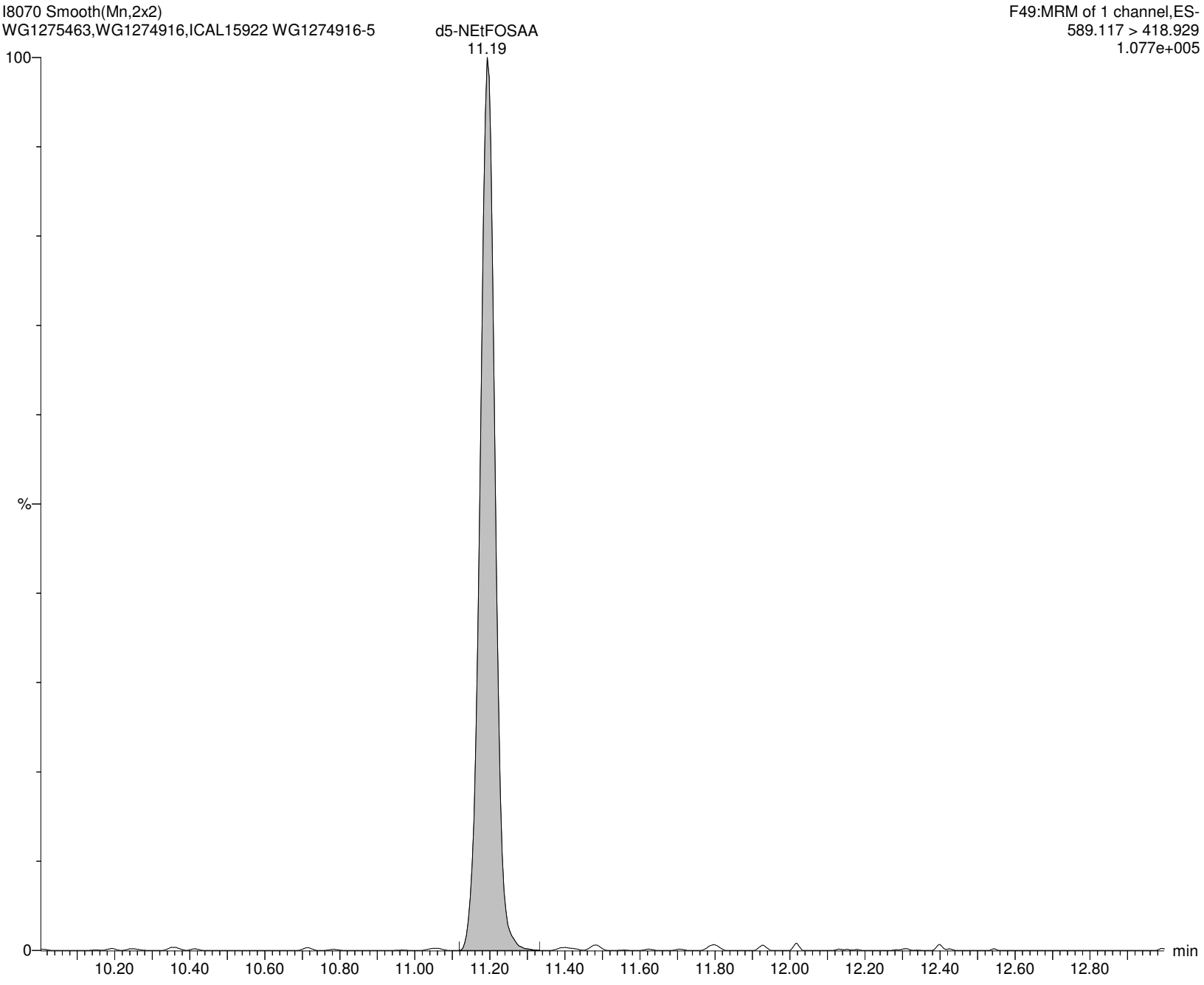


all concentration units in (ng/mL)

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d5-NEtFOSAA

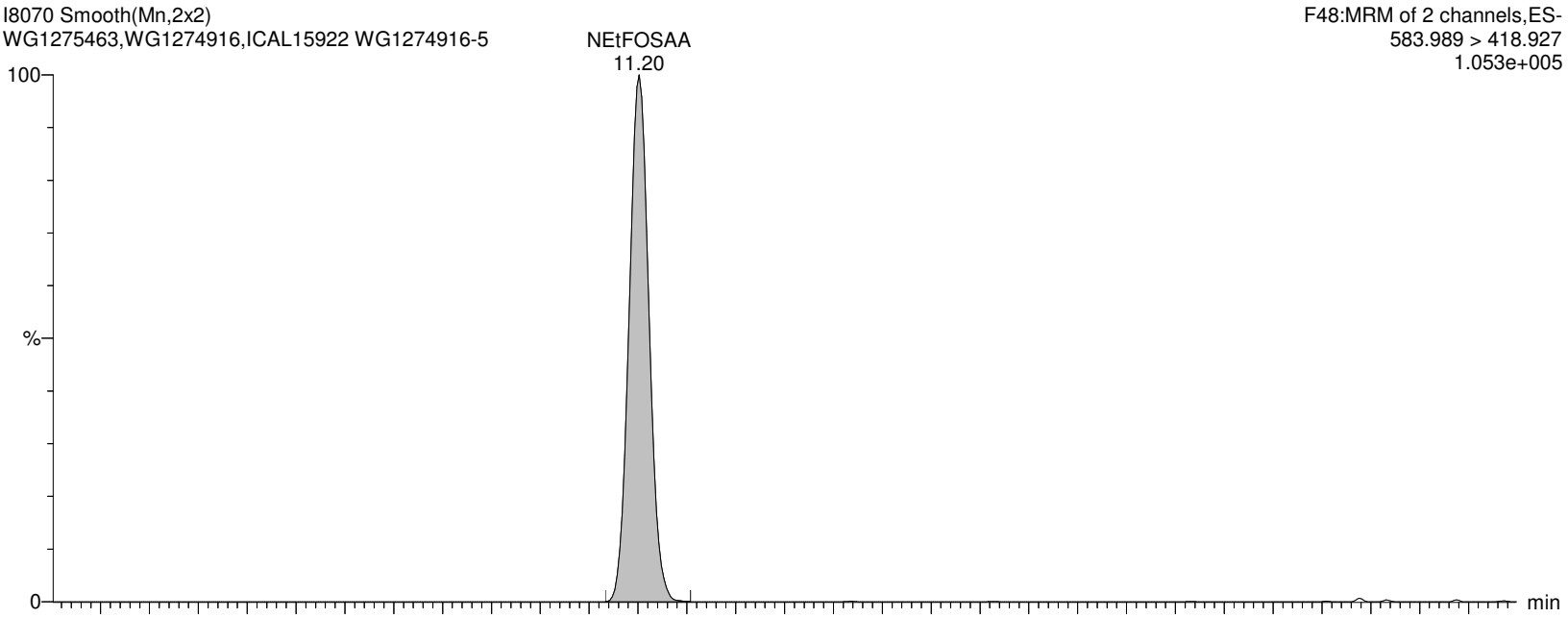


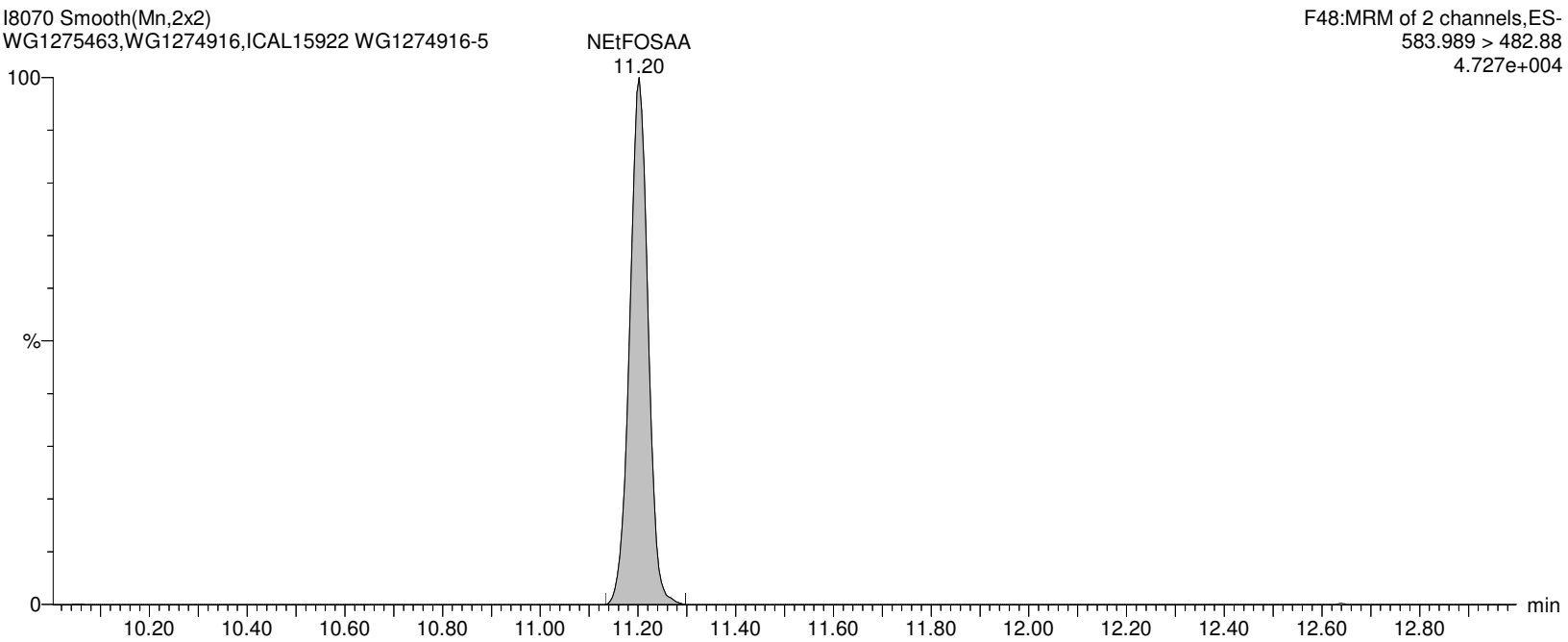
all concentration units in (ng/mL)

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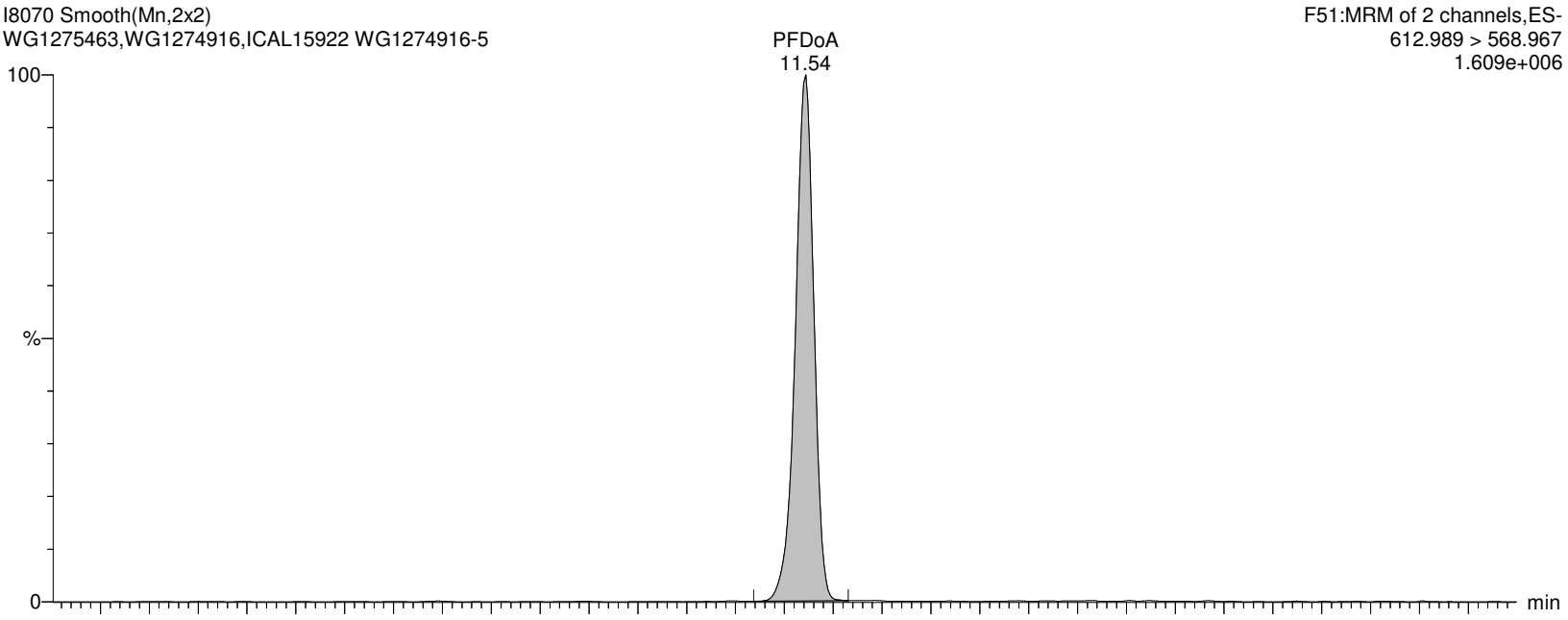


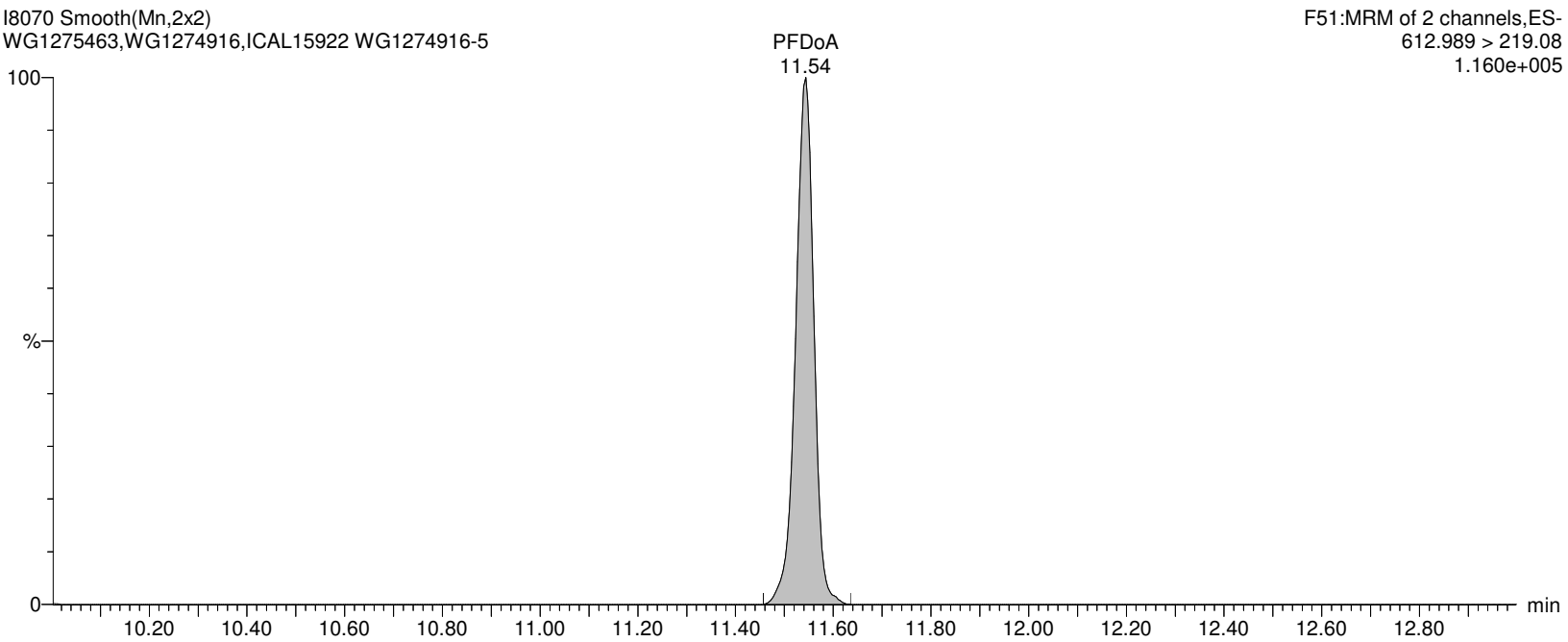
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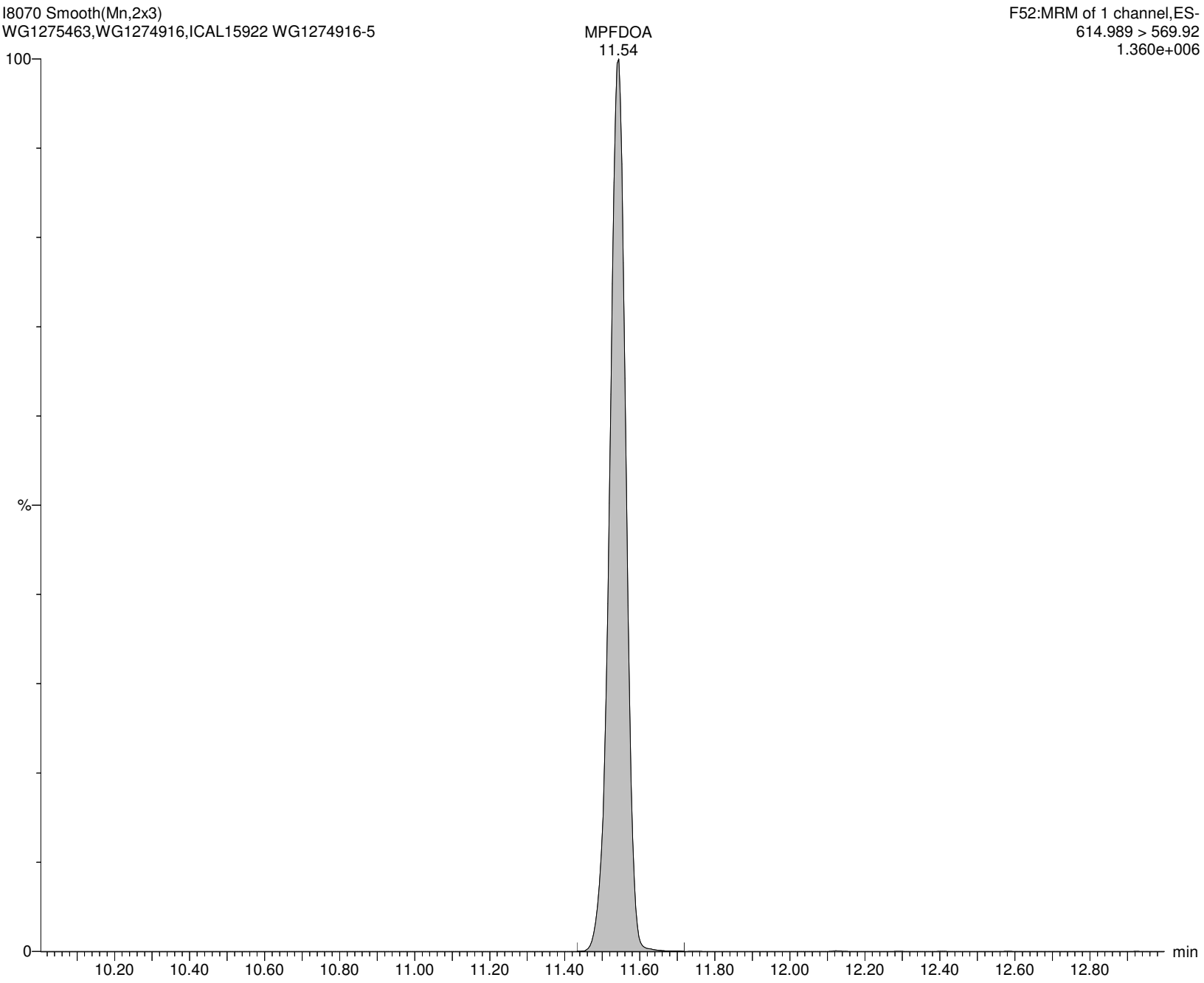


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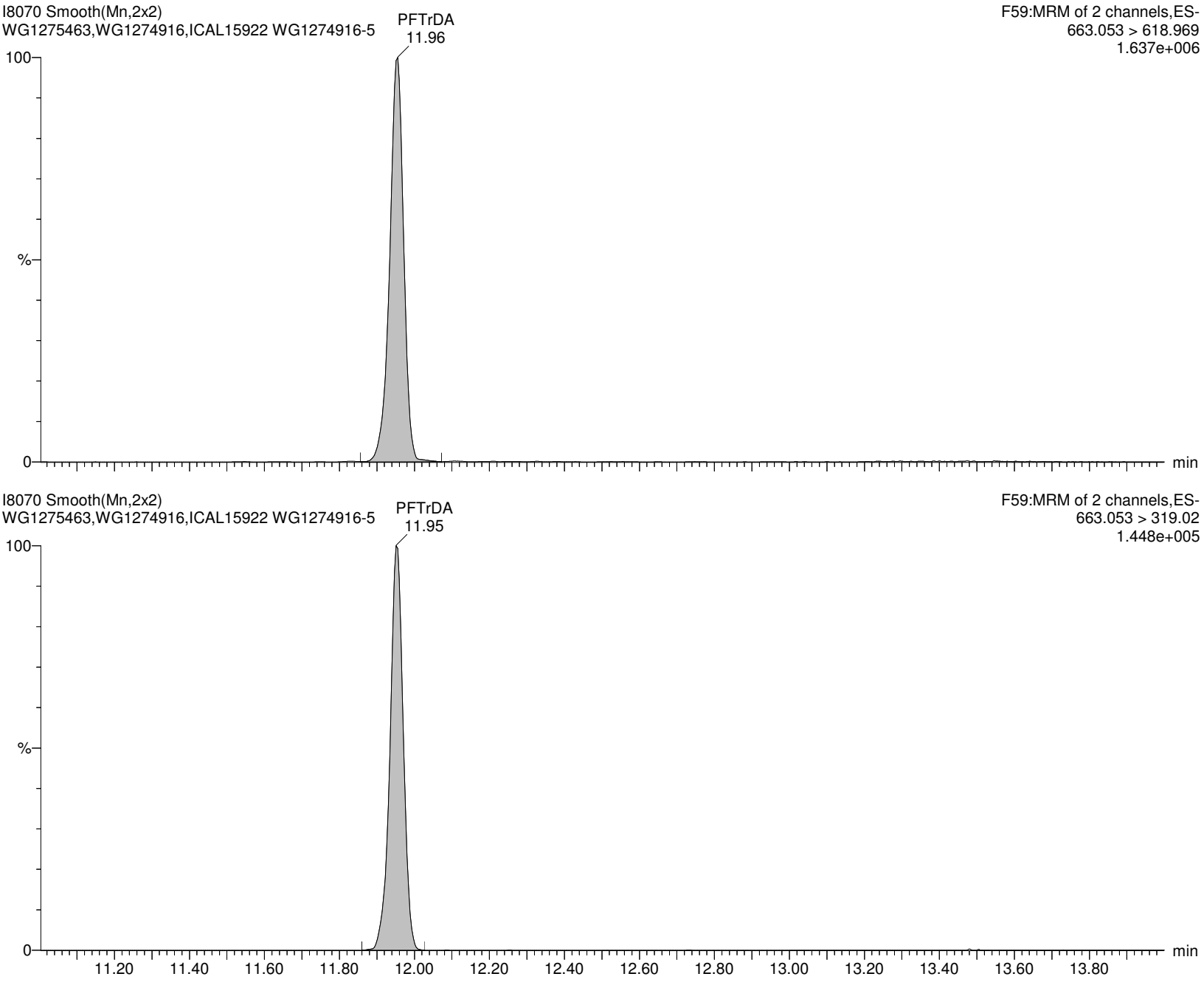


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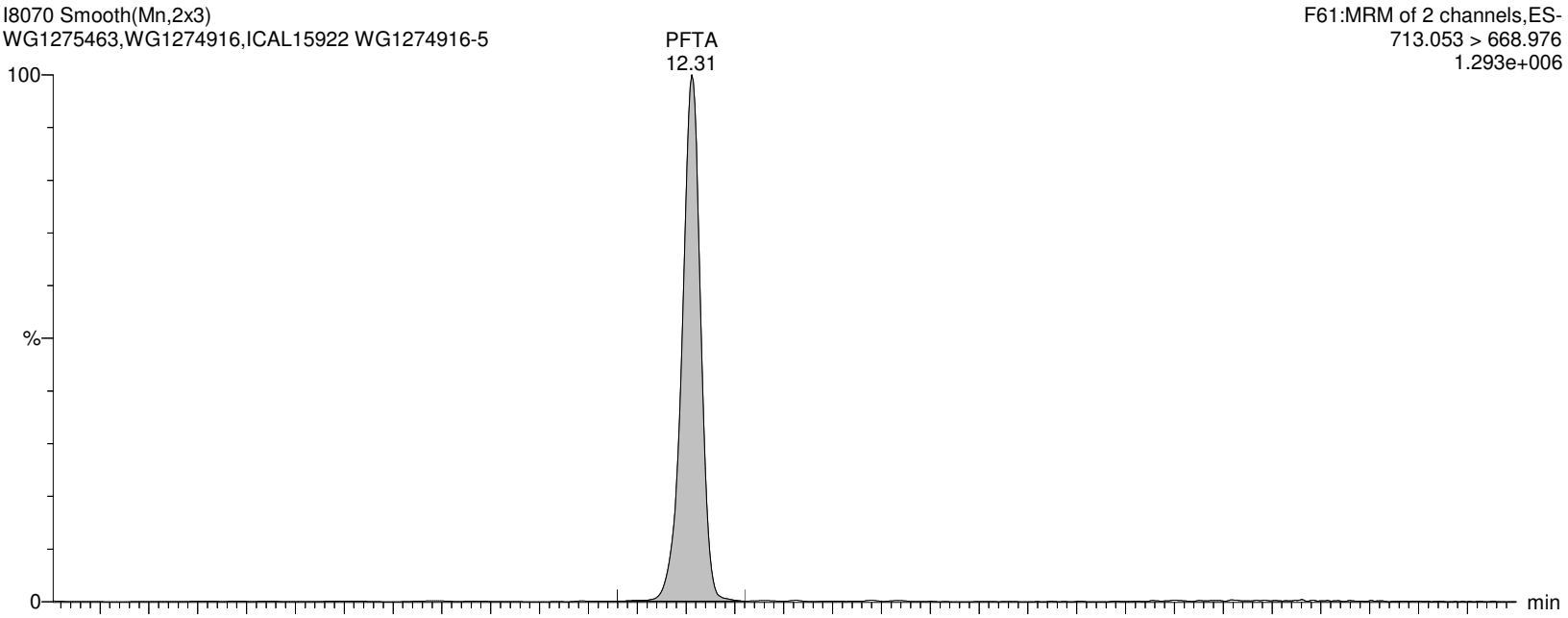


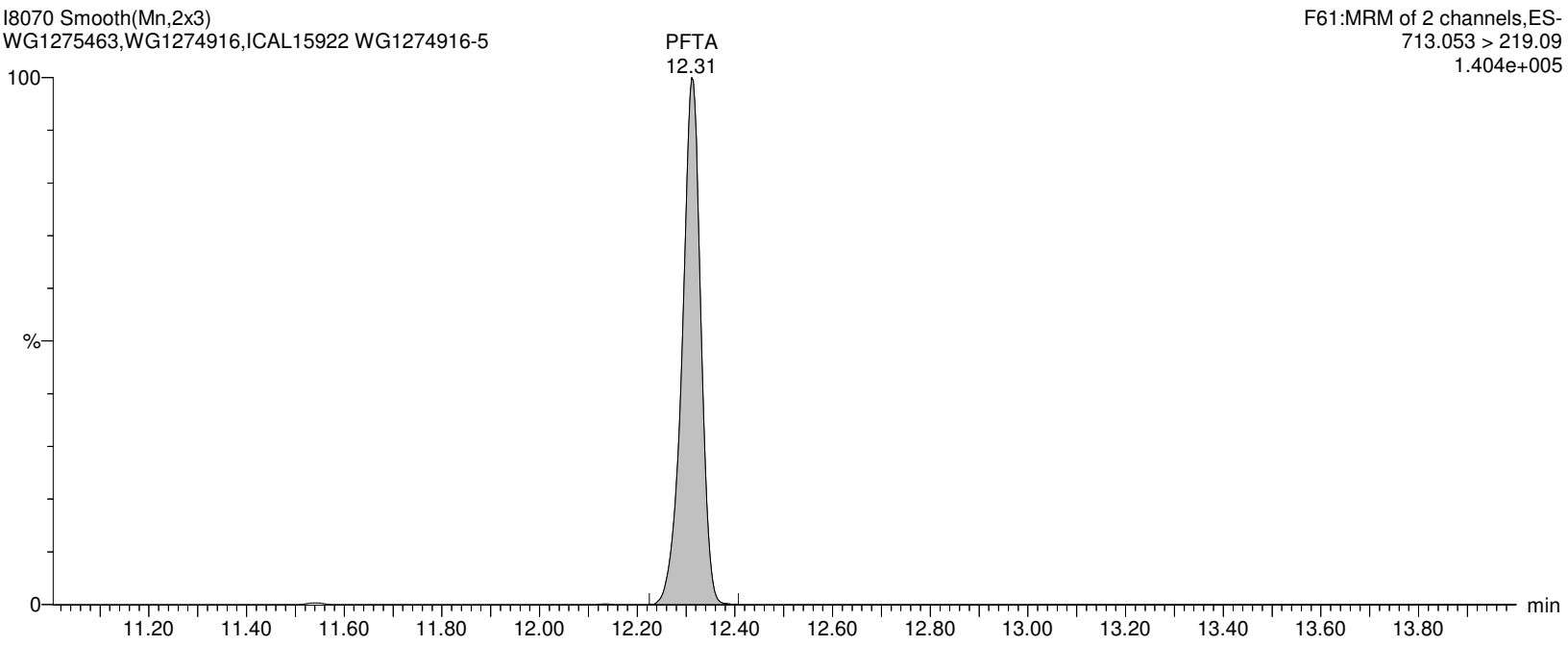
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PFTA



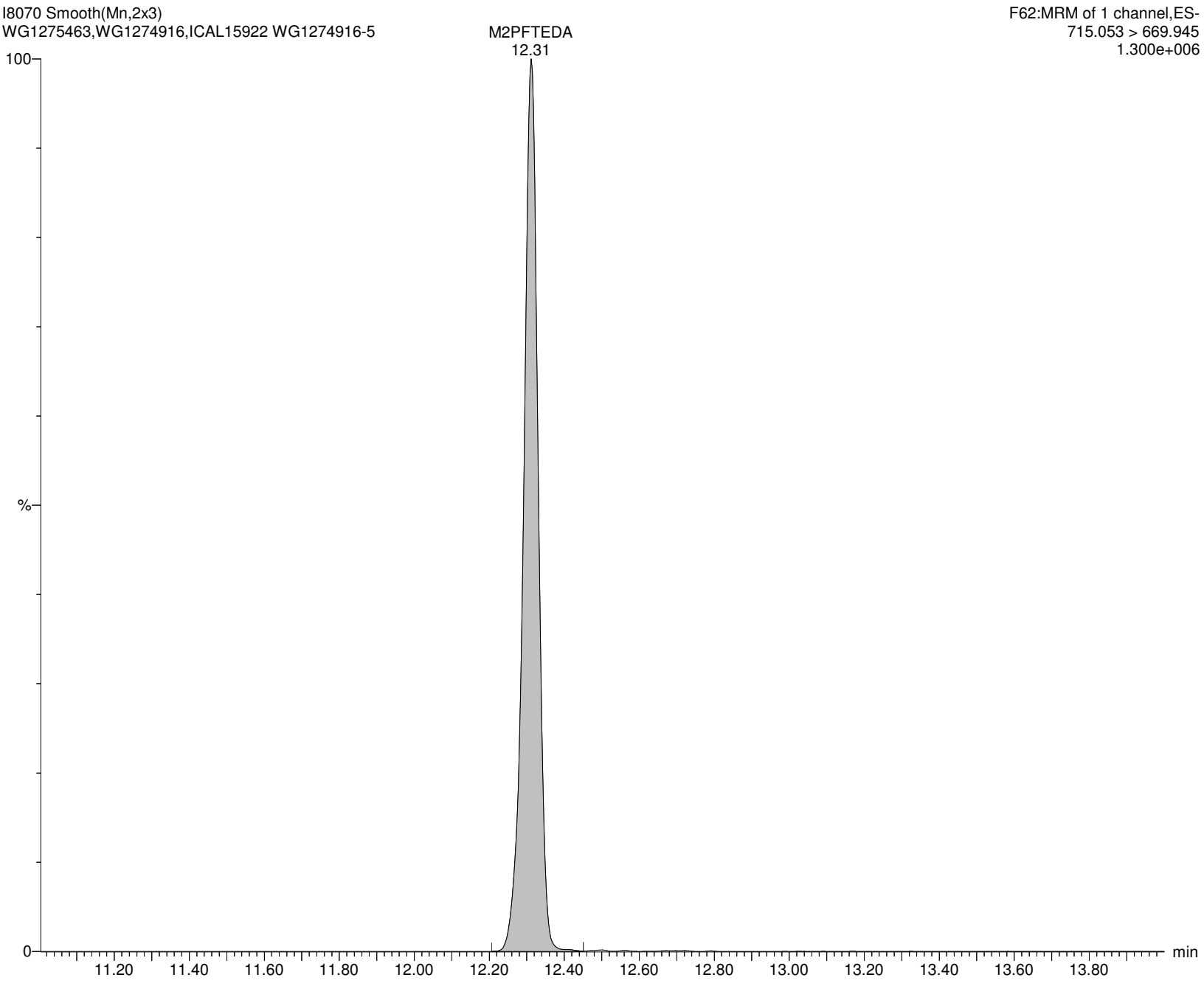


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M2PFTEDA



all concentration units in (ng/mL)

Calculation of Semi Volatile Organic Compounds

Results of Water Analysis- calculation as performed in report form:

$$\text{Concentration (ug/L)} = \frac{(\text{Conc})\ (\text{Vf})\ (\text{DF})}{(\text{Vi})} \times 1000$$

where:
Conc =Raw on-column concentration obtained from the quantitation report using Initial Calibration results.
Vf = Final volume of extract (mL)
Vi= Volume of sample extracted (mL)
DF= Dilution factor

Results of Sediment/Soil Analysis- calculation as performed in report form:

$$\text{Concentration (ug/Kg)} = \frac{(\text{Conc})\ (\text{Vf})\ (\text{DF})}{(\text{W})\ (\%\text{S})}$$

where:
Conc =Raw on-column concentration obtained from the quantitation report using Initial Calibration results.
Vf = Final volume of extract (mL)
W= Aliquot of sample (wet), g
DF= Dilution factor
%S= Sample %solid (in decimal form)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Aug 23 2019, 10:35 am

Work Group: WG1275463 for Department: 32 GC/MS - Semivolatiles

Created: 22-AUG-19 Due: Operator: JW

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1934631-01	CONCRETE-1	S	A2-537-ISOTOPE	SOLID	DACQ	U	0830	0829	S0	Plastic-A-Soil
L1934631-02	CONCRETE-2	S	A2-537-ISOTOPE	SOLID	DACQ	U	0830	0829	S0	Plastic-A-Soil
L1934631-03	CONCRETE-3	S	A2-537-ISOTOPE	SOLID	DACQ	U	0830	0829	S0	Plastic-A-Soil
L1934631-04	CONCRETE-4	S	A2-537-ISOTOPE	SOLID	DACQ	U	0830	0829	S0	Plastic-A-Soil
L1934631-05	CONCRETE-5	S	A2-537-ISOTOPE	SOLID	DACQ	U	0830	0829	S0	Plastic-A-Soil
L1934631-06	CONCRETE-6	S	A2-537-ISOTOPE	SOLID	DACQ	U	0830	0829	S0	Plastic-A-Soil
L1934631-07	CONCRETE-7	S	A2-537-ISOTOPE	SOLID	DACQ	U	0830	0829	S0	Plastic-A-Soil
L1934631-08	CONCRETE-8	S	A2-537-ISOTOPE	SOLID	DACQ	U	0830	0829	S0	Plastic-A-Soil
L1934631-09	CONCRETE-9	S	A2-537-ISOTOPE	SOLID	DACQ	U	0830	0829	S0	Plastic-A-Soil
L1934631-10	CONCRETE-10	S	A2-537-ISOTOPE	SOLID	DACQ	U	0830	0829	S0	Plastic-A-Soil
L1934631-11	CONCRETE-11	S	A2-537-ISOTOPE	SOLID	DACQ	U	0830	0829	S0	Plastic-A-Soil
L1934631-12	CONCRETE-12	S	A2-537-ISOTOPE	SOLID	DACQ	U	0830	0829	S0	Plastic-A-Soil
L1935613-01	JAMESON	C	A2-537-ISOTOPE	WATER	DONE	U	0821	0822	S0	Plastic-A.25
L1935613-02	RICCI-BETWEEN	S	A2-537-ISOTOPE	WATER	DONE	U	0821	0822	S0	Plastic-A.25
L1935613-03	RICCI-BEFORE	C	A2-537-ISOTOPE	WATER	DONE	U	0821	0822	S0	Plastic-A.25
L1935613-05	RFB-JAMESON	S	A2-L-EXT-537-ISOTOPE	WATER	DACQ	U	0821	0822	S0	Plastic-A.25
L1935613-06	RFB-RICCI	S	A2-L-EXT-537-ISOTOPE	WATER	DACQ	U	0821	0822	S0	Plastic-A.25
L1935884-01	003 SURFACE	S	A2-537-ISOTOPE	SOIL	DACQ	U	0906	0827	S0	Plastic-A-Soil
L1935884-02	003 SHALLOW	S	A2-537-ISOTOPE	SOIL	DACQ	U	0906	0827	S0	Plastic-A-Soil
L1935884-04	010 SURFACE	S	A2-537-ISOTOPE	SOIL	DACQ	U	0906	0827	S0	Plastic-A-Soil
L1935884-05	010 SHALLOW	S	A2-537-ISOTOPE	SOIL	DACQ	U	0906	0827	S0	Plastic-A-Soil
L1935884-07	FIELD BLANK	C	A2-537-ISOTOPE	WATER	SENT	U	0823	0827	S0	Plastic-A.25
L1936068-02	FIELD BLANK	S	A2-NY-537-ISOTOPE	WATER	SENT	U	0823	0826	S0	537ISET
L1936068-03	TRIP BLANK	S	A2-NY-537-ISOTOPE	WATER	SENT	U	0823	0826	S0	537ISET
L1936285-10	EC-1	S	A2-NY-537-ISOTOPE	SOIL	DACQ	U	0910	0829	S0	Plastic-A-Soil
L1936410-01	MW-8S	S	A2-NY-537-ISOTOPE	WATER	DONE	U	0827	0823	S0	537ISET
L1936410-02	MW-9S	S	A2-NY-537-ISOTOPE	WATER	DONE	U	0827	0823	S0	537ISET
L1936410-03	MW-6S	S	A2-NY-537-ISOTOPE	WATER	DONE	U	0827	0823	S0	537ISET
L1936410-04	FB-081319	S	A2-NY-537-ISOTOPE	WATER	DONE	U	0827	0823	S0	537ISET
L1936410-05	TB-081319	S	A2-NY-537-ISOTOPE	WATER	DONE	U	0827	0823	S0	537ISET
L1936410-06	DUP-081319	S	A2-NY-537-ISOTOPE	WATER	DONE	U	0827	0823	S0	537ISET
L1936462-02	B-3 5 TO 7 FT	S	A2-NY-537-ISOTOPE	SOIL	DACQ	U	0910	0829	1D	Plastic-A-Soil
L1936462-09	B-5 5 TO 7 FT	S	A2-NY-537-ISOTOPE	SOIL	DACQ	U	0910	0829	1D	Plastic-A-Soil
L1936462-14	B-11 5 TO 7 FT	S	A2-NY-537-ISOTOPE	SOIL	DACQ	U	0910	0829	1D	Plastic-A-Soil
L1936648-01	EP 100 SAMPLE 1+2	S	A2-537-ISOTOPE	DW	DACQ	U	0828	0823	S0	537ISET
L1936648-02	EP 100 FIELD BLANK	S	A2-537-ISOTOPE	DW	DACQ	U	0828	0823	S0	537ISET
L1936727-01	MW-1	S	A2-NY-537-ISOTOPE	WATER	DACQ	U	0828	0828	1B	537ISET
L1936727-02	MW-5	S	A2-NY-537-ISOTOPE	WATER	DACQ	U	0828	0828	1B	537ISET
L1937329-01	BUD	S	A2-NH-537-ISOTOPE	SOLID	DACQ	U	0830	0829	S0	Plastic-A-Soil
L1937330-01	GEL	S	A2-NH-537-ISOTOPE	SOLID	DACQ	U	0905	0829	S0	Plastic-A-Soil
WG1274916-1	Laboratory Method Bl	S	A2-NY-537-ISOTOPE	WATER	DACQ	U				
WG1274916-1	Laboratory Method Bl	S	A2-L-EXT-537-ISOTOPE	WATER	DACQ	U				
WG1274916-1	Laboratory Method Bl	S	A2-537-ISOTOPE	DW	DONE	U				
WG1274916-1	Laboratory Method Bl	S	A2-537-ISOTOPE	WATER	DONE	U				
WG1274916-2	Laboratory Control S	S	A2-537-ISOTOPE	DW	DONE	U				
WG1274916-2	Laboratory Control S	S	A2-L-EXT-537-ISOTOPE	WATER	DACQ	U				
WG1274916-2	Laboratory Control S	S	A2-NY-537-ISOTOPE	WATER	DACQ	U				
WG1274916-2	Laboratory Control S	S	A2-537-ISOTOPE	WATER	DONE	U				
WG1274916-3	LCS Duplicate	S	A2-NY-537-ISOTOPE	WATER	DACQ	U				
WG1274916-3	LCS Duplicate	S	A2-537-ISOTOPE	WATER	DONE	U				
WG1274916-3	LCS Duplicate	S	A2-537-ISOTOPE	DW	DONE	U				
WG1274916-3	LCS Duplicate	S	A2-L-EXT-537-ISOTOPE	WATER	DACQ	U				
WG1274916-4	Matrix Spike	S	A2-L-EXT-537-ISOTOPE	WATER	DACQ	U				
WG1274916-4	Matrix Spike	S	A2-NY-537-ISOTOPE	WATER	DACQ	U				
WG1274916-4	Matrix Spike	S	A2-537-ISOTOPE	DW	DONE	U				
WG1274916-4	Matrix Spike	S	A2-537-ISOTOPE	WATER	DONE	U				
WG1274916-5	Matrix Spike Duplica	S	A2-L-EXT-537-ISOTOPE	WATER	DACQ	U				
WG1274916-5	Matrix Spike Duplica	S	A2-537-ISOTOPE	WATER	DONE	U				
WG1274916-5	Matrix Spike Duplica	S	A2-NY-537-ISOTOPE	WATER	DACQ	U				
WG1274916-5	Matrix Spike Duplica	S	A2-537-ISOTOPE	DW	DONE	U				
WG1274961-1	Laboratory Method Bl	S	A2-NH-537-ISOTOPE	SOLID	DACQ	U				
WG1274961-1	Laboratory Method Bl	S	A2-537-ISOTOPE	SOLID	DACQ	U				

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Aug 23 2019, 10:35 am

Work Group: WG1275463 for Department: 32 GC/MS - Semivolatiles

Created: 22-AUG-19 Due: Operator: JW

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
WG1274961-2	Laboratory Control S	S	A2-NH-537-ISOTOPE	SOLID	DACQ	U				
WG1274961-2	Laboratory Control S	S	A2-537-ISOTOPE	SOLID	DACQ	U				
WG1274961-3	LCS Duplicate	S	A2-NH-537-ISOTOPE	SOLID	DACQ	U				
WG1274961-3	LCS Duplicate	S	A2-537-ISOTOPE	SOLID	DACQ	U				
WG1274961-4	Matrix Spike	S	A2-537-ISOTOPE	SOLID	DACQ	U				
WG1274961-4	Matrix Spike	S	A2-NH-537-ISOTOPE	SOLID	DACQ	U				
WG1274961-5	Duplicate Sample	S	A2-NH-537-ISOTOPE	SOLID	DACQ	U				
WG1274961-5	Duplicate Sample	S	A2-537-ISOTOPE	SOLID	DACQ	U				
WG1274963-1	Laboratory Method Bl	S	A2-NY-537-ISOTOPE	SOIL	DACQ	U				
WG1274963-2	Laboratory Control S	S	A2-NY-537-ISOTOPE	SOIL	DACQ	U				
WG1274963-3	LCS Duplicate	S	A2-NY-537-ISOTOPE	SOIL	DACQ	U				
WG1274963-4	Matrix Spike	S	A2-NY-537-ISOTOPE	SOIL	DACQ	U				
WG1274963-6	Duplicate Sample	S	A2-NY-537-ISOTOPE	SOIL	DACQ	U				
WG1275284-1	Laboratory Method Bl	S	A2-537-ISOTOPE	DW	DACQ	U				
WG1275284-2	Laboratory Control S	S	A2-537-ISOTOPE	DW	DACQ	U				
WG1275284-3	LCS Duplicate	S	A2-537-ISOTOPE	DW	DACQ	U				

Comments:

WG1274916-3	WG1274916-2
WG1274916-4	L1936410-03
WG1274916-5	L1936410-03
WG1274961-3	WG1274961-2
WG1274961-4	L1934631-01
WG1274961-5	L1934631-02
WG1274963-3	WG1274963-2
WG1274963-4	L1936462-02
WG1274963-6	L1936462-09
WG1275284-3	WG1275284-2

	Bottle	File Name	File Text	Sample ID	MS File
1	1:A,2	I5634	WG1255219,,537_190524_1	IA2-537STD0.5	537ISO28_M_SPAN_DOD
2	1:A,3	I5635	WG1255219,,537_190228_2	IA2-537STD1.0	537ISO28_M_SPAN_DOD
3	1:A,4	I5636	WG1255219,,537_190524_3	IA2-537STD5.0	537ISO28_M_SPAN_DOD
4	1:A,5	I5637	WG1255219,,537_190524_4	IA2-537STD10.0	537ISO28_M_SPAN_DOD
5	1:A,6	I5638	WG1255219,,537_190524_5	IA2-537STD50.0	537ISO28_M_SPAN_DOD
6	1:A,7	I5639	WG1255219,,537_190524_6	IA2-537STD125	537ISO28_M_SPAN_DOD
7	1:A,8	I5640	WG1255219,,537_190524_7	IA2-537STD150	537ISO28_M_SPAN_DOD
8	1:B,1	I5641	WG1255219,,537_190524_8	IA2-537STD250	537ISO28_M_SPAN_DOD
9	1:A,1	I5642	MeOH BLANK	MeOH BLANK	537ISO28_M_SPAN_DOD
10	1:A,1	I5643	MeOH BLANK	MeOH BLANK	537ISO28_M_SPAN_DOD
11	1:A,1	I5644	MeOH BLANK	MeOH BLANK	537ISO28_M_SPAN_DOD
12	1:A,1	I5645	MeOH BLANK	MeOH BLANK	537ISO28_M_SPAN_DOD
13	1:A,1	I5646	MeOH BLANK	MeOH BLANK	537ISO28_M_SPAN_DOD
14	1:A,1	I5647	MeOH BLANK	MeOH BLANK	537ISO28_M_SPAN_DOD
15	1:A,1	I5648	MeOH BLANK	MeOH BLANK	537ISO28_M_SPAN_DOD
16	1:A,1	I5649	MeOH BLANK	MeOH BLANK	537ISO28_M_SPAN_DOD
17	1:A,1	I5650	MeOH BLANK	MeOH BLANK	537ISO28_M_SPAN_DOD
18	1:A,1	I5651	MeOH BLANK	MeOH BLANK	537ISO28_M_SPAN_DOD
19	1:B,2	I5652	WG1255219,,537ISO__190528	CA2-537STD010	537ISO28_M_SPAN_DOD
20	1:B,3	I5653	WG1255219,,537ISO_TECHSTD_190520A	TECHSTD_190520A	537ISO28_M_SPAN_DOD
21	1:A,1	I5654	MeOH BLANK	MeOH BLANK	537ISO28_M_SPAN_DOD
22	1:A,1	I5655	MeOH BLANK	MeOH BLANK	537ISO28_M_SPAN_DOD
23	1:A,1	I5656	MeOH BLANK	MeOH BLANK	537ISO28_M_SPAN_DOD
24	1:B,2	I5657	WG1255219,,537ISO__190528	CA2-537STD010	537ISO28_M_SPAN_DOD

MS Tune File	Inlet File	Inject Volume	Sample Type	Conc A	User
181009_TUNE	LCMS_537_ISO_B	3.000	Standard	0.5	LCMS02:JW
181009_TUNE	LCMS_537_ISO_B	3.000	Standard	1.0	LCMS02:JW
181009_TUNE	LCMS_537_ISO_B	3.000	Standard	5.0	LCMS02:JW
181009_TUNE	LCMS_537_ISO_B	3.000	Standard	10.0	LCMS02:JW
181009_TUNE	LCMS_537_ISO_B	3.000	Standard	50.0	LCMS02:JW
181009_TUNE	LCMS_537_ISO_B	3.000	Standard	125	LCMS02:JW
181009_TUNE	LCMS_537_ISO_B	3.000	Standard	150	LCMS02:JW
181009_TUNE	LCMS_537_ISO_B	3.000	Standard	250	LCMS02:JW
181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
181009_TUNE	LCMS_537_ISO_B	3.000	QC	10	LCMS02:JW
181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
181009_TUNE	MeOH_Flush_30	3.000	Analyte	---	LCMS02:JW
181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
181009_TUNE	LCMS_537_ISO_B	3.000	QC	10	LCMS02:JW

	Bottle	File Name	File Text	Sample ID
1	1:A,1	I8058	MeOH BLANK	MeOH BLANK
2	1:A,1	I8059	MeOH BLANK	MeOH BLANK
3	1:A,2	I8060	WG1275463,WG1274916,ICAL15922,537ILOW	WG1275463-1,537ILOW
4	1:B,1	I8061	WG1275463,WG1274916,ICAL15922	L1935613-01
5	1:B,2	I8062	WG1275463,WG1274916,ICAL15922	L1935613-02
6	1:B,3	I8063	WG1275463,WG1274916,ICAL15922	L1935613-03
7	1:B,4	I8064	WG1275463,WG1274916,ICAL15922	L1935613-05
8	1:B,5	I8065	WG1275463,WG1274916,ICAL15922	L1935613-06
9	1:B,6	I8066	WG1275463,WG1274916,ICAL15922	WG1274916-1
10	1:B,7	I8067	WG1275463,WG1274916,ICAL15922	WG1274916-2
11	1:B,8	I8068	WG1275463,WG1274916,ICAL15922	WG1274916-3
12	1:C,1	I8069	WG1275463,WG1274916,ICAL15922	WG1274916-4
13	1:C,2	I8070	WG1275463,WG1274916,ICAL15922	WG1274916-5
14	1:A,3	I8071	WG1275463,WG1274916,ICAL15922,537IMED	WG1275463-2,537IMED
15	1:A,1	I8072	MeOH BLANK	MeOH BLANK
16	1:C,3	I8073	WG1275463,WG1274916,ICAL15922	L1935884-07
17	1:C,4	I8074	WG1275463,WG1274916,ICAL15922	L1936068-02
18	1:C,5	I8075	WG1275463,WG1274916,ICAL15922	L1936068-03
19	1:C,6	I8076	WG1275463,WG1274916,ICAL15922	L1936410-01
20	1:C,7	I8077	WG1275463,WG1274916,ICAL15922	L1936410-02
21	1:C,8	I8078	WG1275463,WG1274916,ICAL15922	L1936410-03
22	1:D,1	I8079	WG1275463,WG1274916,ICAL15922	L1936410-04
23	1:D,2	I8080	WG1275463,WG1274916,ICAL15922	L1936410-05
24	1:D,3	I8081	WG1275463,WG1274916,ICAL15922	L1936410-06
25	1:A,2	I8082	WG1275463,WG1274916,ICAL15922,537ILOW	WG1275463-3,537ILOW
26	1:D,4	I8083	WG1275463,WG1274916,ICAL15922	L1936727-01
27	1:D,5	I8084	WG1275463,WG1274916,ICAL15922	L1936727-02
28	1:D,6	I8085	WG1275463,WG1275284,ICAL15922	L1936648-01
29	1:D,7	I8086	WG1275463,WG1275284,ICAL15922	L1936648-02
30	1:D,8	I8087	WG1275463,WG1274421,ICAL15922	L1935884-01D,,20
31	1:E,1	I8088	WG1275463,WG1274421,ICAL15922	L1935884-02D,,20
32	1:E,2	I8089	WG1275463,WG1274421,ICAL15922	L1935884-04D,,10
33	1:E,3	I8090	WG1275463,WG1274421,ICAL15922	L1935884-05D,,10
34	1:A,3	I8091	WG1275463,WG1274916,ICAL15922,537IMED	WG1275463-4,537IMED
35	1:A,1	I8092	MeOH BLANK	MeOH BLANK
36	1:E,4	I8093	WG1275463,WG1274961,ICAL15922	WG1274961-1
37	1:E,5	I8094	WG1275463,WG1274961,ICAL15922	WG1274961-2
38	1:E,6	I8095	WG1275463,WG1274961,ICAL15922	WG1274961-3
39	1:E,7	I8096	WG1275463,WG1274961,ICAL15922	WG1274961-4
40	1:A,1	I8097	MeOH BLANK	MeOH BLANK
41	1:E,8	I8098	WG1275463,WG1274961,ICAL15922	L1934631-01
42	1:F,1	I8099	WG1275463,WG1274961,ICAL15922	L1934631-02
43	1:F,2	I8100	WG1275463,WG1274961,ICAL15922	WG1274961-5
44	1:F,3	I8101	WG1275463,WG1274961,ICAL15922	L1934631-03
45	1:F,4	I8102	WG1275463,WG1274961,ICAL15922	L1934631-04
46	1:F,5	I8103	WG1275463,WG1274961,ICAL15922	L1934631-05
47	1:F,6	I8104	WG1275463,WG1274961,ICAL15922	L1934631-06
48	1:F,7	I8105	WG1275463,WG1274961,ICAL15922	L1934631-07
49	1:F,8	I8106	WG1275463,WG1274961,ICAL15922	L1934631-08
50	2:A,1	I8107	WG1275463,WG1274961,ICAL15922	L1934631-09
51	2:A,2	I8108	WG1275463,WG1274961,ICAL15922	L1934631-10
52	1:A,2	I8109	WG1275463,WG1274961,ICAL15922,537ILOW	WG1275463-5,537ILOW
53	2:A,3	I8110	WG1275463,WG1274961,ICAL15922	L1934631-11
54	2:A,4	I8111	WG1275463,WG1274961,ICAL15922	L1934631-12
55	2:A,5	I8112	WG1275463,WG1274961,ICAL15922	L1937329-01
56	2:A,6	I8113	WG1275463,WG1274961,ICAL15922	L1937330-01
57	2:A,7	I8114	WG1275463,WG1274963,ICAL15922	L1936285-10
58	2:A,8	I8115	WG1275463,WG1274963,ICAL15922	L1936462-02
59	2:B,1	I8116	WG1275463,WG1274963,ICAL15922	L1936462-09
60	2:B,2	I8117	WG1275463,WG1274963,ICAL15922	WG1274963-6

MS File	MS Tune File	Inlet File	Inject Volume	Sample Type	Conc A	User
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	QC	0.5	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte		LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte		LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte		LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte		LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte		LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	QC	10	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	QC	10	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte		LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte		LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	QC	10	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	QC	0.5	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte		LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte		LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte		LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte		LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte		LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte		LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte		LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte		LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	QC	10	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	QC	10	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	QC	10	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	QC	0.5	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW

	Bottle	File Name	File Text	Sample ID
61	2:B,3	I8118	WG1275463,WG1274963,ICAL15922	L1936462-14
62	2:B,4	I8119	WG1275463,WG1274963,ICAL15922	WG1274963-1
63	2:B,5	I8120	WG1275463,WG1274963,ICAL15922	WG1274963-2
64	2:B,6	I8121	WG1275463,WG1274963,ICAL15922	WG1274963-3
65	2:B,7	I8122	WG1275463,WG1274963,ICAL15922	WG1274963-4
66	1:A,3	I8123	WG1275463,WG1274961,ICAL15922,537IMED	WG1275463-6,537IMED
67	2:B,8	I8124	L1937281-03 SCREEN 250X	L1937281-03 SCREEN 250X
68	2:C,1	I8125	L1937281-04 SCREEN 250X	L1937281-04 SCREEN 250X
69	2:C,2	I8126	L1937281-05 SCREEN 250X	L1937281-05 SCREEN 250X
70	2:C,3	I8127	L1937281-01 SCREEN 2500X	L1937281-03 SCREEN 2500X
71	2:C,4	I8128	L1937281-02 SCREEN 2500X	L1937281-03 SCREEN 2500X
72	1:A,8	I8129	ACN BLANK	ACN BLANK
73	1:A,8	I8130	ACN BLANK	ACN BLANK
74	1:A,8	I8131	ACN BLANK	ACN BLANK

MS File	MS Tune File	Inlet File	Inject Volume	Sample Type	Conc A	User
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	QC	10	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW
537ISO28_M_SPAN_DOD	181009_TUNE	LCMS_537_ISO_B	3.000	Analyte	---	LCMS02:JW

ORGANIC ELN REPORT

Workgroup: WG1274916

Prep Method: EPA 537
Solvent Type: Methanol
Surrogate Type: NA
Spike Type: 537
Spike Verify by: N/A
Lims Spikelot: 537I

Lot #: DW531-US
Lot #: LC_537_ISO_SURR_190816
Lot #: LC_537_ISO_LCS_190807

Additional Reagents/Stds

2% NH4OH	EC082019A/EC082119A
25 mM NaOAc	EC081519B/EC082119B
Acetic Acid	2018081300

Conc.Method: N-EVAP
Solvent Type: 80:20 Methanol/Wat
Lot #: EC082119C

Additional Reagents/Stds

IS	537_ISO_ISTD_190816

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type:
Lot #:

Additional Reagents/Stds

Extraction | **Concentration**

Sample/ Type	Extract Date	Analyst	Initial Sample Weight	Final Weight g	Sample Vol g	Balance Id	Surr Amt ml	Spike Amt ml	Pipette Id	Lot: Spe Cartrid	Flow Rate ml/min	Lot: Clnup Cartridg	Flow Rate 2 ml/min	Conc Date	Analyst	Final Vol ml	Conc Unit	Pipette Id
L1935613-01 WATER	08/21/19 08:22	Tyler Russell	302	24	278	BAL-7	.02		WHG-31	S308-0091	4	1/1242/G	4	08/21/19 13:30	Tyler Russell	1	NEVAP 65 6_5	WHG-31_29
	4-4 HOSE 25																	
L1935613-02 WATER	08/21/19 08:22	Tyler Russell	287	24	263	BAL-7	.02		WHG-31	S308-0091	4	1/1242/G	4	08/21/19 13:30	Tyler Russell	1	NEVAP 65 6_5	WHG-31_29
	4-5 HOSE 28																	
L1935613-03 WATER	08/21/19 08:22	Tyler Russell	293	24	269	BAL-7	.02		WHG-31	S308-0091	4	1/1242/G	4	08/21/19 13:30	Tyler Russell	1	NEVAP 65 6_5	WHG-31_29
	4-6 HOSE 20																	
L1935613-05 WATER	08/21/19 08:22	Tyler Russell	287	24	263	BAL-7	.02		WHG-31	S308-0091	4	1/1242/G	4	08/21/19 13:30	Tyler Russell	1	NEVAP 65 6_5	WHG-31_29
	1-1 HOSE 40																	
L1935613-06 WATER	08/21/19 08:22	Tyler Russell	274	23	251	BAL-7	.02		WHG-31	S308-0091	4	1/1242/G	4	08/21/19 13:30	Tyler Russell	1	NEVAP 65 6_5	WHG-31_29
	1-2 HOSE 34																	
L1935884-07 WATER	08/21/19 08:22	Tyler Russell	300	25	275	BAL-7	.02		WHG-31	S308-0091	4	1/1242/G	4	08/21/19 13:30	Tyler Russell	1	NEVAP 65 6_5	WHG-31_29
	1-3 HOSE 7																	

Reported: 23-AUG-19 10:35 AM

ORGANIC ELN REPORT

Workgroup: WG1274916

Sample/ Type	Extraction													Concentration				
	Extract Date	Analyst	Initial Sample Weight	Final Weight g	Sample Vol g	Balance Id	Surr Amt ml	Spike Amt ml	Pipette Id	Lot: Spe Cartrid	Flow Rate ml/min	Lot: Clnup Cartridg	Flow Rate 2 ml/min	Conc Date	Analyst	Final Vol ml	Conc Unit	Pipette Id
L1936068-02 WATER	08/21/19 08:22	Tyler Russell	284	24	260	BAL-7	.02		WHG-31	S308-0091	4	1/1242/G	4	08/21/19 13:30	Tyler Russell	1	NEVAP 65 6_5	WHG-31_29
	1-4 HOSE 4																	
L1936068-03 WATER	08/21/19 08:22	Tyler Russell	308	25	283	BAL-7	.02		WHG-31	S308-0091	4	1/1242/G	4	08/21/19 13:30	Tyler Russell	1	NEVAP 65 6_5	WHG-31_29
	1-5 HOSE 12																	
L1936410-01 WATER	08/21/19 08:22	Tyler Russell	285	24	261	BAL-7	.02		WHG-31	S308-0091	4	1/1242/G	4	08/21/19 13:30	Tyler Russell	1	NEVAP 65 6_5	WHG-31_29
	2-1 HOSE 26													**Sample was syringe filtered due to matrix. CP 8/21/19**				
L1936410-02 WATER	08/21/19 08:22	Tyler Russell	301	25	276	BAL-7	.02		WHG-31	S308-0091	4	1/1242/G	4	08/21/19 13:30	Tyler Russell	1	NEVAP 65 6_5	WHG-31_29
	2-2 HOSE 5													**Sample was syringe filtered due to matrix. CP 8/21/19**				
L1936410-03 WATER	08/21/19 08:24	Tyler Russell	300	24	276	BAL-7	.02		WHG-31	S308-0091	4	1/1242/G	4	08/21/19 13:30	Tyler Russell	1	NEVAP 65 6_5	WHG-31_29
	2-3 HOSE 24													**Sample was syringe filtered due to matrix. CP 8/21/19**				
L1936410-04 WATER	08/21/19 08:24	Tyler Russell	296	25	271	BAL-7	.02		WHG-31	S308-0091	4	1/1242/G	4	08/21/19 13:30	Tyler Russell	1	NEVAP 65 6_5	WHG-31_29
	2-6 HOSE 13																	
L1936410-05 WATER	08/21/19 08:24	Tyler Russell	300	24	276	BAL-7	.02		WHG-31	S308-0091	4	1/1242/G	4	08/21/19 13:30	Tyler Russell	1	NEVAP 65 6_5	WHG-31_29
	3-1 HOSE 11																	
L1936410-06 WATER	08/21/19 08:24	Tyler Russell	291	25	266	BAL-7	.02		WHG-31	S308-0091	4	1/1242/G	4	08/21/19 13:30	Tyler Russell	1	NEVAP 65 6_5	WHG-31_29
	3-2 HOSE 14													**Sample was syringe filtered due to matrix. CP 8/21/19**				
L1936648-01	08/21/19 08:24	Tyler Russell	298	24	274	BAL-7	.02		WHG-31	S308-0091	4	1/1242/G	4	08/21/19 13:30	Tyler Russell	1	NEVAP 65 6_5	WHG-31_29
	3-3 HOSE 9													**Sample was syringe filtered due to matrix. CP 8/21/19**				
L1936648-02	08/21/19 08:24	Tyler Russell	305	24	281	BAL-7	.02		WHG-31	S308-0091	4	1/1242/G	4	08/21/19 13:30	Tyler Russell	1	NEVAP 65 6_5	WHG-31_29
	3-4 HOSE 16																	

Reported: 23-AUG-19 10:35 AM

ORGANIC ELN REPORT

Workgroup: WG1274916

Sample/ Type	Extraction												Concentration				
	Extract Date	Analyst	Initial Sample Weight	Final Weight **g**	Sample Vol **g**	Balance Id	Surr Amt **ml**	Spike Amt **ml**	Pipette Id	Lot: Spe Cartrid	Flow Rate **ml/min**	Lot: Clnup Cartridg	Flow Rate 2 **ml/min**	Conc Date	Analyst	Final Vol **ml**	Conc Unit	Pipette Id
L1936727-01 WATER	08/21/19 08:24	Tyler Russell	278	23	255	BAL-7	.02		WHG-31	S308-0091	4	1/1242/G	4	08/21/19 13:30	Tyler Russell	1	NEVAP 65 6_5	WHG-31_29
	3-5 HOSE 2. Centrifuged and decanted.																	
L1936727-02 WATER	08/21/19 08:25	Tyler Russell	241	23	218	BAL-7	.02		WHG-31	S308-0091	4	1/1242/G	4	08/21/19 13:30	Tyler Russell	1	NEVAP 65 6_5	WHG-31_29
	3-6 HOSE 23. Centrifuged and decanted.																	
WG1274916-1 BLANK	08/21/19 08:22	Tyler Russell	275	25	250	BAL-7	.02		WHG-31	S308-0091	4	1/1242/G	4	08/21/19 13:30	Tyler Russell	1	NEVAP 65 6_5	WHG-31_29
	4-1 HOSE 17. Shares QCs with WG1275284																	
WG1274916-2 LCS	08/21/19 08:22	Tyler Russell	275	25	250	BAL-7	.02	.02	WHG-31	S308-0091	4	1/1242/G	4	08/21/19 13:30	Tyler Russell	1	NEVAP 65 6_5	WHG-31_29
	4-2 HOSE 30																	
WG1274916-3 LCSD	08/21/19 08:22	Tyler Russell	275	25	250	BAL-7	.02	.02	WHG-31	S308-0091	4	1/1242/G	4	08/21/19 13:30	Tyler Russell	1	NEVAP 65 6_5	WHG-31_29
	4-3 HOSE 27																	
WG1274916-4 MS	08/21/19 08:22	Tyler Russell	296	25	271	BAL-7	.02	.02	WHG-31	S308-0091	4	1/1242/G	4	08/21/19 13:30	Tyler Russell	1	NEVAP 65 6_5	WHG-31_29
	2-4 HOSE 10													**Sample was syringe filtered due to matrix. CP 8/21/19**				
WG1274916-5 MSD	08/21/19 08:22	Tyler Russell	305	24	281	BAL-7	.02	.02	WHG-31	S308-0091	4	1/1242/G	4	08/21/19 13:30	Tyler Russell	1	NEVAP 65 6_5	WHG-31_29
	2-5 HOSE 32													**Sample was syringe filtered due to matrix. CP 8/21/19**				

ATTACHMENT 4

Data Usability Summary Report

ARCADIS Design & Consultancy for natural and built assets

NYSEG Elmira Madison Avenue
Former MGP Site

DATA USABILITY SUMMARY REPORT (DUSR)

Elmira, New York

1,4-Dioxane and Per- and Poly-fluoroalkyl Substances (PFAS) Analyses

SDG #: L1936410

Analyses Performed By:
Alpha Analytical
Mansfield, Massachusetts

Report #: 34253R
Review Level: Tier III
Project: 30030318

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # L1936410 for samples collected in association with the NYSEG Former MGP site at Madison Avenue, Elmira, New York. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data as reported by the laboratory were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain-of-custody (COC) records. Analyses were performed on the following samples.

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis			
					PFAS	1,4-Dioxane	Metals	Misc.
MW-8S	L1936410-01	Water	8/13/2019		X	X		
MW-9S	L1936410-02	Water	8/13/2019		X	X		
MW-6S	L1936410-03	Water	8/13/2019		X	X		
FB-081319	L1936410-04	Water	8/13/2019		X	X		
TB-081319	L1936410-05	Water	8/13/2019		X			
DUP-081319-PFOS	L1936410-06	Water	8/13/2019	MW-9S	X	X		

Note: As specified on the COC, sample MW-6S was used in the matrix spike/matrix spike duplicate sample analyses.

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of Quality Assurance (QA) or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) Method 537 (modified) SW-846 Method 8270D with selected ion monitoring (SIM). Data were reviewed in accordance with USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, EPA 540/R-99/008 (October 1999) and applicable USEPA Region II SOPs (October 2006) in accordance with NYSDEC DER-10 (NYSDEC 2010).

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected; the analyte may or may not be present in the sample.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

1,4-DIOXANE ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8270D-SIM	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cool to < 6 °C

All samples were extracted and analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e. laboratory method blanks and equipment rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

1,4-Dioxane was not detected in the laboratory method blank; however, it was detected in the equipment blank at a concentration less than the reporting limit. The sample results less than the BAL were qualified as listed in the following table.

Sample	Analyte	Sample Result	Qualification
MW-8S	1,4-Dioxane	Detected sample results < reporting limit (RL) and < BAL	“UB” at the RL

3. Gas Chromatograph/Mass Spectrometer (GC/MS) Instrument Performance (Tuning) Check

GC/MS tuning is performed to ensure mass resolution, identification, and to some degree, sensitivity. The tuning compound (4-bromofluorobenzene) analysis must be performed at the beginning of each 12-hour period during which calibration standards and samples are analyzed and must meet the ion-abundance criteria specified in the analytical method.

GC/MS performance was acceptable, and all analyses were initiated within 12 hours of each instrument tune check.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument can produce acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable (linear or quadratic) performance at the beginning of the analytical sequence. The continuing calibration verifies that the day-to-day instrument performance is satisfactory.

4.1 Initial Calibration Verification (ICV)

Each target compound in the initial calibration must exhibit a relative response factor (RRF) greater than

the control limit of 0.05 (0.01 for poor-performing compounds e.g. ketones) and either a percent relative standard deviation (%RSD) within the control limit of 20% or a correlation coefficient greater than 0.99.

4.2 Continuing Calibration Verification (CCV)

Each target compound associated with the continuing calibration standard must exhibit a percent difference (%D) within the control limit of 20%, and a RRF value greater than control limit (0.05 or 0.01).

All compounds associated with the initial and continuing calibrations were within the control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. 1,4-Dioxane analysis requires that the surrogate compound exhibit recoveries within the laboratory-established acceptance limits, and that all surrogate recoveries be greater than ten percent.

All sample analyses exhibited surrogate recoveries within the control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC analysis exhibit area counts that are within a factor of two (i.e. 50% - 200%) of the area counts of the associated continuing calibration standard.

All internal standard area counts were within the control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit recoveries within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS and MSD results must be within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on samples where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater. In instance where this is true, the data will not be qualified, and the laboratory qualifier will be removed. Sample results associated with MS/MSD exceedances where the parent samples are not site-specific are not qualified.

Sample MW-6S was used in the MS/MSD analysis. The MS/MSD analyses exhibited acceptable results.

8. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The spiked compounds used in the LCS/LCSD analysis must exhibit recoveries within the laboratory-established acceptance limits. The relative percent difference (RPD) between the LCS and LCSD results must be within the laboratory-established acceptance limits.

All compounds associated with the LCS/LCSD analyses exhibited recoveries and RPDs within the control limits.

9. Field Duplicate Sample Analysis

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and

analytical method. A control limit of 25% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to five times the reporting limit (RL), a control limit of two times the RL is applied to the difference between the results for water matrices.

Results for the field duplicate samples are summarized in the following table.

Sample ID / Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-9S / DUP-081319	1,4-Dioxane	144 U	150 U	Acceptable

Note: U = Not detected

The field duplicate samples exhibited acceptable results.

10. Compound Identification

A positive identification of a target compound is made when the relative retention time (RRT) is within ±0.06 RRT units of the compound's RRT in the associated calibration standard and the mass spectrum of the compound matches the compound's mass spectrum in the associated calibration standard within the method-specified criteria.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR 1,4-DIOXANE

1,4-Dioxane: SW-846 8270D-SIM	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Gas Chromatography/Mass Spectrometry (GC/MS)					
Tier II Validation					
Holding Times		X		X	
Reporting Limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X	X		
Surrogates Accuracy (%R)		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R	X				X
LCS/LCSD (RPD)	X				X
Laboratory Duplicate Sample RPD	X				X
Field Duplicate Sample RPD		X		X	
Dilution Factor		X		X	
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X		X	
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Quantitation transcriptions/calculations		X		X	
E. Reporting limits adjusted for sample dilutions		X		X	

Notes:
%R = Percent Recovery
RPD = Relative Percent Difference
%RSD = Relative standard deviation
%D = Percent difference

PER- AND POLY-FLUOROALKYL SUBSTANCES (PFAS) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
USEPA modified 537	Water	14 days from collection to extraction and 28 days from extraction to analysis	Cool to < 6 °C
	Soil	14 days from collection to extraction and 28 days from extraction to analysis	Cool to < 6 °C

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e. laboratory blanks and equipment rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

If a compound is detected in a blank at a concentration greater than the detection limit (DL), a blank action level (BAL) is calculated at five times the concentration detected in the blank. Detected compounds in the associated samples are compared to the BAL. If the result is greater than the BAL, no qualification is required, and any laboratory-assigned flags are removed, otherwise the result is qualified as not detected (UB) at either the sample reporting limit or the concentration detected in the sample, whichever is greater.

All compounds associated with the QA blanks exhibited concentrations less than the MDL, except for the compound(s) listed in the following table. Sample results less than the BAL associated with the following samples were qualified as listed in the following table.

Sample	Analyte	Sample Result	Qualification
MW-8S MW-9S MW-6S DUP-081319	Perfluorohexanoic Acid (PFHxA)	Detected sample results < reporting limit (RL) and < BAL	“UB” at the RL

3. Calibration

Satisfactory instrument calibration is established to ensure that the instrument can produce acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable (linear or quadratic) performance at the beginning of the analytical sequence. The continuing calibration verifies that the day-to-day instrument performance is satisfactory.

3.1 Initial Calibration Verification (ICV)

Each target compound in the initial calibration must exhibit a percent relative standard deviation (%RSD) of the relative response factors (RRFs) within the control limit of 20% or a correlation coefficient greater than 0.99. Each analyte must calculate to be within 70-130% of the true value for each calibration standard except for the lowest concentration calibration standard which must calculate to be within 50-

150% of the true value. Additionally, the relative percent difference (RPD) between the high and low areas for each isotopically labelled internal standard must be less than 20% for each IS during calibration.

3.2 Continuing Calibration Verification (CCV)

Each target compound associated with the continuing calibration standards must exhibit a percent difference (%D) from the average RRFs established in the ICV within the control limit of 30%. Sample analyses must be bracketed by CCVs and CCVs must be performed after every ten sample analyses.

All target compounds associated with the initial and continuing calibrations were within the control limits.

4. Isotopically labeled Standards

4.1 Extracted Internal Standards (EIS)

Labeled standards must be added to all field samples and QC samples prior to extraction. For aqueous samples prepared by serial dilution instead of SPE, they must be added to samples prior to analysis. The laboratory performed a modified EPA 537 method. EPA 537 has three surrogate compounds. The laboratory reported 18 extracted internal standards (EIS), which is the same procedure specified in the DoD QSM 5.1 for PFAS. The laboratory listed their in-house control limits for EIS. However, in DoD QSM 5.1, EIS recoveries must be within the specified limits of 50% to 150%. This evaluation will follow the same validation process as if the method was modified 537 per DoD QSM 5.1

Samples associated with internal standards exhibiting responses outside of the control limits are presented in the following table.

Sample	EIS	Recovery	Associated Compounds
MW-8S	13C2-6:2FTS 13C2-8:2FTS	> 150%	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)
	13C8FOSA	< 50% but > 10%	Perfluorooctanesulfonamide (FOSA)
MW-9S	13C8FOSA d5-EtFOSAA	< 50% but > 10%	Perfluorooctanesulfonamide (FOSA) N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)
MW-6S	13C2-8:2FTS 13C8FOSA	< 50% but > 10%	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) Perfluorooctanesulfonamide (FOSA)
FB	13C2-6:2FTS 13C2-8:2FTS 13C8FOSA	< 50% but > 10%	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) Perfluorooctanesulfonamide (FOSA)
TB	13C2-6:2FTS 13C2-8:2FTS 13C8FOSA d5-EtFOSAA	< 50% but > 10%	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) Perfluorooctanesulfonamide (FOSA) N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)
DUP-081319	13C2-8:2FTS 13C8FOSA d5-EtFOSAA	< 50% but > 10%	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) Perfluorooctanesulfonamide (FOSA) N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)

The criteria used to evaluate the internal standard responses are presented in the following table; in the case of an internal standard deviation, the compounds quantitated using the deviant internal standard are qualified as documented.

Control limit	Sample Result	Qualification
> 150%	Non-detect	No action
	Detect	J

Control limit	Sample Result	Qualification
< 50% but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J

4.2 Injection Internal Standards

Injection internal standards must be added to the aliquot of sample dilutions, QC samples, and standards prior to analysis. Peak areas must be within 50% to 150% of the area measured in the daily CCV.

All injection internal standard responses were within the control limits.

5. Matrix Spike/Matrix Spike Duplicate (MS/MSD) and Laboratory Duplicate Sample Analysis

MS/MSD and laboratory duplicate sample data are used to assess the precision and accuracy of the analytical method.

5.1 MS/MSD Analysis

The compounds used to perform the MS/MSD analysis must exhibit recoveries within the laboratory-established acceptance limits. When an MSD analysis is performed, the relative percent difference (RPD) between the MS/MSD recoveries must be no greater than 30%.

Note: The MS/MSD recovery control limits do not apply for MS/MSDs performed on samples where the compound concentration detected in the parent sample exceeds the MS/MSD spiking concentration by a factor of four or greater. Sample results associated with MS/MSD exceedances where the parent samples are not site-specific are not qualified.

Sample MW-6S was used in the MS/MSD analysis. The MS/MSD analyses exhibited acceptable results.

5.2 Laboratory Duplicate Sample Analysis

Laboratory duplicate sample results are used to assess precision and may be used in addition to or in lieu of the MSD analysis. The laboratory duplicate sample maximum RPD of 30% criterion is applied when the primary and duplicate sample concentrations are at least five times the RL. In the case where the parent and duplicate sample concentrations are less than five times the RL, a control limit of one times the RL for water matrices and two times the RL for soil matrices is applied to the difference between the results.

MS/MSD analysis was performed instead of the laboratory duplicate sample analysis.

6. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The spiked compounds used in the LCS analysis must exhibit recoveries within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

7. Field Duplicate Sample Analysis

The field duplicate sample analysis is used to assess the overall precision of the field sampling procedures and analytical method. The control limits of 35% for water matrices and 50% for soil and

sediment matrices are applied to the RPDs between the primary and field duplicate sample results. In the instance when the parent and duplicate sample concentrations are less than five times the reporting limit (RL), a control limit of two times the RL for water matrices or three times to RL for soil matrices is applied to the difference between the results.

Results for the field duplicate sample results are summarized in the following table.

Sample / Duplicate	Analyte	Sample Result	Duplicate Result	RPD
MW-06 / DUP-061719	Perfluorobutanesulfonic Acid (PFBS)	0.71 J	0.812 J	Acceptable
	Perfluorobutanoic Acid (PFBA)	2.22	2.39	Acceptable
	Perfluoroheptanoic Acid (PFHpA)	0.812 J	0.789 J	Acceptable
	Perfluorohexanoic Acid (PFHxA)	0.909 J	0.992 J	Acceptable
	Perfluorononanoic Acid (PFNA)	0.486 J	0.677 J	Acceptable
	Perfluorooctanesulfonic Acid (PFOS)	2.06	1.86 J	Acceptable
	Perfluorooctanoic Acid (PFOA)	1.18 J	1.25 J	Acceptable
	Perfluoropentanoic Acid (PFPeA)	0.612 J	0.883 J	Acceptable

Notes: J = Estimated (result is < RL)
U = Not detected

The field duplicate samples exhibited acceptable results.

8. Compound Identification

PFAS compounds are identified using the compound's ion abundance ratios, signal-to-noise values, and relative retention times.

All identified compounds met method criteria.

9. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR PERFLUOROALKYL SUBSTANCES

PFAS: USEPA 537 (modified)	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Liquid Chromatography/Mass Spectrometry (LC/MS/MS)					
Tier II Validation					
Holding Times		X		X	
Reporting Limits (Units)		X		X	
Blanks					
A. Method Blanks		X	X		
B. Trip, Equipment, and/or Field Blanks		X		X	
Extracted Internal Standards Accuracy (%R)		X	X		
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R	X				X
LCS/LCSD RPD	X				X
Laboratory Duplicate Sample RPD	X				X
Field Duplicate Sample RPD		X		X	
Dilution Factor		X		X	
Tier III Validation					
Initial calibration		X		X	
Continuing calibration		X		X	
Injection Internal Standards		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculations acceptable		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:
%R = Percent recovery
RPD = Relative percent difference
%RSD = Relative standard deviation
%D = Percent difference

SAMPLE COMPLIANCE REPORT

SAMPLE COMPLIANCE REPORT

SDG	Sampling Date	Protocol	Sample ID	Matrix	Compliancy[1]		Noncompliance
					PFAS	1,4-Dioxane	
L1936410	8/13/2019	USEPA 537 (modified)	MW-8S	Water	No	--	EIS %R < LCL; Blank contamination
	8/13/2019		MW-9S	Water	No	--	EIS %R < LCL; Blank contamination
	8/13/2019		MW-6S	Water	No	--	EIS %R < LCL; Blank contamination
	8/13/2019		FB-081319	Water	No	--	EIS %R < LCL
	8/13/2019		TB-081319	Water	No	--	EIS %R < LCL
	8/13/2019		DUP-081319	Water	No	--	EIS %R < LCL; Blank contamination
	8/13/2019	SW-846 8270D-SIM	MW-8S	Water	--	No	Blank contamination
	8/13/2019		MW-9S	Water	--	Yes	
	8/13/2019		MW-6S	Water	--	Yes	
	8/13/2019		FB-081319	Water	--	Yes	
	8/13/2019		DUP-081319	Water	--	Yes	

Note:

1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant, or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

Validation Performed by:	Dennis Dyke
Signature:	
Date:	October 29, 2019
Peer Reviewed by:	Dennis Capria
Date:	November 4, 2019

CHAIN OF CUSTODY AND CORRECTED SAMPLE ANALYSIS DATA SHEETS

NEW YORK CHAIN OF CUSTODY

ALPHA

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 8/14/19

ALPHA Job #: L1936410

Client Information
Client: Arcadis
Address: One Lincoln Center
110 W. Fayette st, ste 300
Phone: 315-671-9437
Fax:
Email: Jason.Golubski@arcadis.com

Project Information
Project Name: Madison Ave MGP Site-EC Sampling
Project Location: Madison Ave. Elmira, NY
Project # 30030318
(Use Project name as Project #)
Project Manager: Jason Golubski
ALPHAQuote #:

Turn-Around Time
Standard [X] Due Date:
Rush (only if pre approved) [ ] # of Days:

These samples have been previously analyzed by Alpha [ ]

Other project specific requirements/comments:
NYSDEC Analytical Services Protocol Catagory B data Deliverables.

Please specify Metals or TAL.

Deliverables
[ ] ASP-A [ ] ASP-B
[ ] EQuIS (1 File) [ ] EQuIS (4 File)
[ ] Other NYSDEC Cat B

Regulatory Requirement
[ ] NY TOGS [ ] NY Part 375
[ ] AWQ Standards [ ] NY CP-51
[ ] NY Restricted Use [ ] Other
[ ] NY Unrestricted Use
[ ] NYC Sewer Discharge

Billing Information
[ ] Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
[ ] NJ [ ] NY
[ ] Other:

Sample Filtration
[ ] Done
[ ] Lab to do
Preservation
[ ] Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	PFAS	1,4-Dioxane	Sample Specific Comments	Total Bottle
-01	MW-8S	8/13/19	0930	GW	RDC	2	2		
-02	MW-9S	8/13/19	1130	GW	RDC	2	2		
-03	MW-6S	8/13/19	1325	GW	RDC	2	2		
	MW-6S (MS)	8/13/19	1325	GW	RDC	2	2		
	MW-6S (MSD)	8/13/19	1325	GW	RDC	2	2		
-04	FB-081319	8/13/19	1400	W	RDC	1	2		
-05	TB-081319	8/13/19	1430	W	LAB	1			
-06	DUP-081319	8/13/19	—	GW	RDC	2	2		

Container Type: P A
Preservative: A O

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	8/13/19 1450		8/13/19 1450
	8/13/19 1450		8/14/19 0110
	8/14/19 0942		8/14/19 0944
	8/14/19 1030		8/14/19 10:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Project Name: MADISON AVE MGP SITE-EC SAMP
Lab Number: L1936410
Project Number: 30030318
Report Date: 08/23/19

SAMPLE RESULTS

Lab ID: L1936410-01
Client ID: MW-8S
Sample Location: MADISON AVE., ELMIRA, NY

Date Collected: 08/13/19 09:30
Date Received: 08/13/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 08/22/19 21:43
Analyst: MA

Extraction Method: EPA 3510C
Extraction Date: 08/20/19 17:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND ~~40.2~~	~~J~~ UB	ng/l	144	32.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	42		15-110

Project Name: MADISON AVE MGP SITE-EC SAMP
Project Number: 30030318
Lab Number: L1936410
Report Date: 08/23/19

SAMPLE RESULTS

Lab ID: L1936410-01
Client ID: MW-8S
Sample Location: MADISON AVE., ELMIRA, NY

Date Collected: 08/13/19 09:30
Date Received: 08/13/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 122,537(M)
Analytical Date: 08/22/19 14:41
Analyst: JW

Extraction Method: EPA 537
Extraction Date: 08/21/19 08:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.92	0.391	1
Perfluoropentanoic Acid (PFPeA)	0.797	J	ng/l	1.92	0.379	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.92	0.228	1
Perfluorohexanoic Acid (PFHxA)	ND ~~1.22~~	~~J~~ UB	ng/l	1.92	0.314	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.92	0.216	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.92	0.360	1
Perfluorooctanoic Acid (PFOA)	1.20	J	ng/l	1.92	0.226	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.92	1.28	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.92	0.659	1
Perfluorononanoic Acid (PFNA)	0.475	J	ng/l	1.92	0.299	1
Perfluorooctanesulfonic Acid (PFOS)	1.48	J	ng/l	1.92	0.483	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.92	0.291	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.92	1.16	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.92	0.621	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.92	0.249	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.92	0.939	1
Perfluorooctanesulfonamide (FOSA)	ND	UJ	ng/l	1.92	0.556	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.92	0.770	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.92	0.356	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.92	0.313	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.92	0.238	1
PFOA/PFOS, Total	2.68	J	ng/l	1.92	0.226	1

Project Name: MADISON AVE MGP SITE-EC SAMP **Lab Number:** L1936410

Project Number: 30030318 **Report Date:** 08/23/19

SAMPLE RESULTS

Lab ID: L1936410-01 Date Collected: 08/13/19 09:30

Client ID: MW-8S Date Received: 08/13/19

Sample Location: MADISON AVE., ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	102		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	74		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	78		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	59		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	74		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	84		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	100		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	230		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	122		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	104		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	95		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**270**	Q	7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	103		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	110		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	41		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	106		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	104		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	107		33-143

Project Name: MADISON AVE MGP SITE-EC SAMP
Lab Number: L1936410
Project Number: 30030318
Report Date: 08/23/19

SAMPLE RESULTS

Lab ID: L1936410-02
Client ID: MW-9S
Sample Location: MADISON AVE., ELMIRA, NY

Date Collected: 08/13/19 11:30
Date Received: 08/13/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 08/22/19 22:07
Analyst: MA

Extraction Method: EPA 3510C
Extraction Date: 08/20/19 17:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	144	32.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	43		15-110

Project Name: MADISON AVE MGP SITE-EC SAMP
Project Number: 30030318
Lab Number: L1936410
Report Date: 08/23/19

SAMPLE RESULTS

Lab ID: L1936410-02
Client ID: MW-9S
Sample Location: MADISON AVE., ELMIRA, NY

Date Collected: 08/13/19 11:30
Date Received: 08/13/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 122,537(M)
Analytical Date: 08/22/19 14:58
Analyst: JW

Extraction Method: EPA 537
Extraction Date: 08/21/19 08:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	2.22		ng/l	1.81	0.370	1
Perfluoropentanoic Acid (PFPeA)	0.612	J	ng/l	1.81	0.359	1
Perfluorobutanesulfonic Acid (PFBS)	0.710	J	ng/l	1.81	0.216	1
Perfluorohexanoic Acid (PFHxA) ND	~~0.909~~	~~J~~ UB	ng/l	1.81	0.297	1
Perfluoroheptanoic Acid (PFHpA)	0.812	J	ng/l	1.81	0.204	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.81	0.340	1
Perfluorooctanoic Acid (PFOA)	1.18	J	ng/l	1.81	0.214	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.81	1.21	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.81	0.623	1
Perfluorononanoic Acid (PFNA)	0.486	J	ng/l	1.81	0.283	1
Perfluorooctanesulfonic Acid (PFOS)	2.06		ng/l	1.81	0.456	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.81	0.275	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.81	1.10	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.81	0.587	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.81	0.236	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.81	0.888	1
Perfluorooctanesulfonamide (FOSA)	ND	UJ	ng/l	1.81	0.525	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	UJ	ng/l	1.81	0.728	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.81	0.337	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.81	0.296	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.81	0.225	1
PFOA/PFOS, Total	3.24	J	ng/l	1.81	0.214	1

Project Name: MADISON AVE MGP SITE-EC SAMP **Lab Number:** L1936410

Project Number: 30030318 **Report Date:** 08/23/19

SAMPLE RESULTS

Lab ID: L1936410-02 Date Collected: 08/13/19 11:30

Client ID: MW-9S Date Received: 08/13/19

Sample Location: MADISON AVE., ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	95		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	118		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	96		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	79		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	81		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	102		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	96		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	83		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	99		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	102		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	87		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	57		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	51		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	80		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	17		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	48		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	68		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	71		33-143

Project Name: MADISON AVE MGP SITE-EC SAMP
Lab Number: L1936410
Project Number: 30030318
Report Date: 08/23/19

SAMPLE RESULTS

Lab ID: L1936410-03
Client ID: MW-6S
Sample Location: MADISON AVE., ELMIRA, NY

Date Collected: 08/13/19 13:25
Date Received: 08/13/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 08/22/19 22:30
Analyst: MA

Extraction Method: EPA 3510C
Extraction Date: 08/20/19 17:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	144	32.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	38		15-110

Project Name: MADISON AVE MGP SITE-EC SAMP
Project Number: 30030318
Lab Number: L1936410
Report Date: 08/23/19

SAMPLE RESULTS

Lab ID: L1936410-03
Client ID: MW-6S
Sample Location: MADISON AVE., ELMIRA, NY

Date Collected: 08/13/19 13:25
Date Received: 08/13/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 122,537(M)
Analytical Date: 08/22/19 15:14
Analyst: JW

Extraction Method: EPA 537
Extraction Date: 08/21/19 08:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	2.53		ng/l	1.81	0.370	1
Perfluoropentanoic Acid (PFPeA)	0.547	J	ng/l	1.81	0.359	1
Perfluorobutanesulfonic Acid (PFBS)	0.384	J	ng/l	1.81	0.216	1
Perfluorohexanoic Acid (PFHxA)	ND ~~1.16~~	~~J~~ UB	ng/l	1.81	0.297	1
Perfluoroheptanoic Acid (PFHpA)	1.21	J	ng/l	1.81	0.204	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.81	0.340	1
Perfluorooctanoic Acid (PFOA)	11.8		ng/l	1.81	0.214	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.81	1.21	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.81	0.623	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.81	0.283	1
Perfluorooctanesulfonic Acid (PFOS)	2.74		ng/l	1.81	0.456	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.81	0.275	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	UJ	ng/l	1.81	1.10	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.81	0.587	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.81	0.236	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.81	0.888	1
Perfluorooctanesulfonamide (FOSA)	ND	UJ	ng/l	1.81	0.525	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.81	0.728	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.81	0.337	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.81	0.296	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.81	0.225	1
PFOA/PFOS, Total	14.5		ng/l	1.81	0.214	1

Project Name: MADISON AVE MGP SITE-EC SAMP **Lab Number:** L1936410

Project Number: 30030318 **Report Date:** 08/23/19

SAMPLE RESULTS

Lab ID: L1936410-03 Date Collected: 08/13/19 13:25

Client ID: MW-6S Date Received: 08/13/19

Sample Location: MADISON AVE., ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	93		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	125		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	92		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	82		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	85		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	96		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	93		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	58		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	93		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	91		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	84		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	39		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	58		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	80		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	15		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	51		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	75		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	75		33-143

Project Name: MADISON AVE MGP SITE-EC SAMP
Lab Number: L1936410
Project Number: 30030318
Report Date: 08/23/19

SAMPLE RESULTS

Lab ID: L1936410-04
Client ID: FB-081319
Sample Location: MADISON AVE., ELMIRA, NY

Date Collected: 08/13/19 14:00
Date Received: 08/13/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 08/22/19 23:38
Analyst: MA

Extraction Method: EPA 3510C
Extraction Date: 08/20/19 17:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	72.5	J	ng/l	144	32.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	42		15-110

Project Name: MADISON AVE MGP SITE-EC SAMP
Project Number: 30030318
Lab Number: L1936410
Report Date: 08/23/19

SAMPLE RESULTS

Lab ID: L1936410-04
Client ID: FB-081319
Sample Location: MADISON AVE., ELMIRA, NY

Date Collected: 08/13/19 14:00
Date Received: 08/13/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 122,537(M)
Analytical Date: 08/22/19 15:31
Analyst: JW

Extraction Method: EPA 537
Extraction Date: 08/21/19 08:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.84	0.376	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.84	0.365	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.84	0.220	1
Perfluorohexanoic Acid (PFHxA)	0.354	J	ng/l	1.84	0.302	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.84	0.208	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.84	0.347	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.84	0.218	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	UJ	ng/l	1.84	1.23	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.84	0.635	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.84	0.288	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.84	0.465	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.84	0.280	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	UJ	ng/l	1.84	1.12	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.84	0.598	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.84	0.240	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.84	0.904	1
Perfluorooctanesulfonamide (FOSA)	ND	UJ	ng/l	1.84	0.535	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.84	0.742	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.84	0.343	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.84	0.302	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.84	0.229	1
PFOA/PFOS, Total	ND		ng/l	1.84	0.218	1

Project Name: MADISON AVE MGP SITE-EC SAMP **Lab Number:** L1936410

Project Number: 30030318 **Report Date:** 08/23/19

SAMPLE RESULTS

Lab ID: L1936410-04 Date Collected: 08/13/19 14:00

Client ID: FB-081319 Date Received: 08/13/19

Sample Location: MADISON AVE., ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	88		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	113		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	96		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	86		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	88		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	99		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	93		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	41		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	97		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	97		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	87		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	44		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	69		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	86		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	26		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	67		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	84		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	88		33-143

Project Name: MADISON AVE MGP SITE-EC SAMP
Project Number: 30030318
Lab Number: L1936410
Report Date: 08/23/19

SAMPLE RESULTS

Lab ID: L1936410-05
Client ID: TB-081319
Sample Location: MADISON AVE., ELMIRA, NY

Date Collected: 08/13/19 14:30
Date Received: 08/13/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 122,537(M)
Analytical Date: 08/22/19 15:47
Analyst: JW

Extraction Method: EPA 537
Extraction Date: 08/21/19 08:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.81	0.370	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.81	0.359	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.81	0.216	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.81	0.297	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.81	0.204	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.81	0.340	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.81	0.214	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	UJ	ng/l	1.81	1.21	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.81	0.623	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.81	0.283	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.81	0.456	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.81	0.275	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	UJ	ng/l	1.81	1.10	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.81	0.587	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.81	0.236	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.81	0.888	1
Perfluorooctanesulfonamide (FOSA)	ND	UJ	ng/l	1.81	0.525	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	UJ	ng/l	1.81	0.728	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.81	0.337	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.81	0.296	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.81	0.225	1
PFOA/PFOS, Total	ND		ng/l	1.81	0.214	1

Project Name: MADISON AVE MGP SITE-EC SAMP **Lab Number:** L1936410

Project Number: 30030318 **Report Date:** 08/23/19

SAMPLE RESULTS

Lab ID: L1936410-05 Date Collected: 08/13/19 14:30

Client ID: TB-081319 Date Received: 08/13/19

Sample Location: MADISON AVE., ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	80		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	101		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	89		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	74		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	76		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	93		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	79		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	35		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	82		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	94		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	73		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	40		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	58		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	71		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	22		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	45		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	69		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	75		33-143

Project Name: MADISON AVE MGP SITE-EC SAMP
Lab Number: L1936410
Project Number: 30030318
Report Date: 08/23/19

SAMPLE RESULTS

Lab ID: L1936410-06
Client ID: DUP-081319
Sample Location: MADISON AVE., ELMIRA, NY

Date Collected: 08/13/19 00:00
Date Received: 08/13/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 08/23/19 00:00
Analyst: MA

Extraction Method: EPA 3510C
Extraction Date: 08/20/19 17:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	150	33.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	43		15-110

Project Name: MADISON AVE MGP SITE-EC SAMP
Project Number: 30030318
Lab Number: L1936410
Report Date: 08/23/19

SAMPLE RESULTS

Lab ID: L1936410-06
Client ID: DUP-081319
Sample Location: MADISON AVE., ELMIRA, NY

Date Collected: 08/13/19 00:00
Date Received: 08/13/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 122,537(M)
Analytical Date: 08/22/19 16:04
Analyst: JW

Extraction Method: EPA 537
Extraction Date: 08/21/19 08:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	2.39		ng/l	1.88	0.383	1
Perfluoropentanoic Acid (PFPeA)	0.883	J	ng/l	1.88	0.372	1
Perfluorobutanesulfonic Acid (PFBS)	0.812	J	ng/l	1.88	0.224	1
Perfluorohexanoic Acid (PFHxA) ND	~~0.992~~	~~J~~ UB	ng/l	1.88	0.308	1
Perfluoroheptanoic Acid (PFHpA)	0.789	J	ng/l	1.88	0.212	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.88	0.353	1
Perfluorooctanoic Acid (PFOA)	1.25	J	ng/l	1.88	0.222	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.88	1.25	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.88	0.647	1
Perfluorononanoic Acid (PFNA)	0.677	J	ng/l	1.88	0.293	1
Perfluorooctanesulfonic Acid (PFOS)	1.86	J	ng/l	1.88	0.474	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.88	0.286	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	UJ	ng/l	1.88	1.14	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.88	0.609	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.88	0.244	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.88	0.921	1
Perfluorooctanesulfonamide (FOSA)	ND	UJ	ng/l	1.88	0.545	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	UJ	ng/l	1.88	0.756	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.88	0.350	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.88	0.308	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.88	0.233	1
PFOA/PFOS, Total	3.11	J	ng/l	1.88	0.222	1

Project Name: MADISON AVE MGP SITE-EC SAMP **Lab Number:** L1936410

Project Number: 30030318 **Report Date:** 08/23/19

SAMPLE RESULTS

Lab ID: L1936410-06 Date Collected: 08/13/19 00:00

Client ID: DUP-081319 Date Received: 08/13/19

Sample Location: MADISON AVE., ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	86		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	111		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	91		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	72		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	74		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	93		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	88		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	67		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	89		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	97		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	82		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	48		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	52		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	75		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	19		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	48		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	64		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	66		33-143