ATTACHMENT F

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PFAS via Draft Method 1633

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: P. W. Grosser
Project Name: ROANOKE SAND AND GRAVEL

Lab Number: L2470744
Project Number: BSD1504
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 ()	S2 ()	S3 ()	S4 ()	S5 ()	S6 ()	S7 ()
3A (L2470744-03)	74	79	82	89	71	68	72
6A (L2470744-09)	102	105	108	122	108	100	105
8A (L2470744-13)	83	88	88	95	80	82	86
10A (L2470744-17)	91	96	107	113	91	89	103
FIELD BLANK (L2470744-20)	95	101	98	93	94	94	94
WG2010366-1BLANK	95	99	98	95	93	90	96
WG2010366-2LCS	94	93	98	92	92	88	93
WG2010366-3LCS	97	101	108	102	92	88	98

QC LIMITS

(5-130) S1 = PERFLUORO[13C4]BUTANOIC ACID (MPFBA)
(40-130) S2 = PERFLUORO[13C5]PENTANOIC ACID (M5PFPEA)
(40-135) S3 = PERFLUORO[2,3,4-13C3]BUTANESULFONIC ACID (M3PFBS)
(40-200) S4 = 1H,1H,2H,2H-PERFLUORO[1,2-13C2]HEXANESULFONIC ACID (M2-4:2FTS)
(40-130) S5 = PERFLUORO[1,2,3,4,6-13C5]HEXANOIC ACID (M5PFHXA)
(40-130) S6 = PERFLUORO[1,2,3,4-13C4]HEPTANOIC ACID (M4PFHPA)
(40-130) S7 = PERFLUORO[1,2,3-13C3]HEXANESULFONIC ACID (M3PFHXS)

*** Values outside of QC limits**

FORM II A2-NY-1633

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: P. W. Grosser
Project Name: ROANOKE SAND AND GRAVEL

Lab Number: L2470744
Project Number: BSD1504
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S8 ()	S9 ()	S10 ()	S11 ()	S12 ()	S13 ()	S14 ()
3A (L2470744-03)	70	74	70	62	68	57	55
6A (L2470744-09)	100	99	109	100	100	84	90
8A (L2470744-13)	81	85	87	83	84	73	71
10A (L2470744-17)	93	96	90	97	87	77	82
FIELD BLANK (L2470744-20)	91	96	94	85	90	77	76
WG2010366-1BLANK	90	91	99	91	95	83	84
WG2010366-2LCS	94	87	98	93	99	80	81
WG2010366-3LCS	96	96	94	94	99	82	84

QC LIMITS

(40-130) S8 = PERFLUORO[13C8]OCTANOIC ACID (M8PFOA)
(40-200) S9 = 1H,1H,2H,2H-PERFLUORO[1,2-13C2]OCTANESULFONIC ACID (M2-6:2FTS)
(40-130) S10 = PERFLUORO[13C9]NONANOIC ACID (M9PFNA)
(40-130) S11 = PERFLUORO[13C8]OCTANESULFONIC ACID (M8PFOS)
(40-130) S12 = PERFLUORO[1,2,3,4,5,6-13C6]DECANOIC ACID (M6PFDA)
(40-300) S13 = 1H,1H,2H,2H-PERFLUORO[1,2-13C2]DECANESULFONIC ACID (M2-8:2FTS)
(40-170) S14 = N-DEUTERIOMETHYLPERFLUORO-1-OCTANESULFONAMIDOACETIC ACID (D3-NMEFOSAA)

*** Values outside of QC limits**

FORM II A2-NY-1633 (Continued)

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: P. W. Grosser
Project Name: ROANOKE SAND AND GRAVEL

Lab Number: L2470744
Project Number: BSD1504
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S15 ()	S16 ()	S17 ()	S18 ()	S19 ()	S20 ()	S21 ()
3A (L2470744-03)	58	60	59	64	55	77	49
6A (L2470744-09)	91	90	91	101	78	104	76
8A (L2470744-13)	77	76	73	70	65	85	66
10A (L2470744-17)	76	90	86	87	69	95	79
FIELD BLANK (L2470744-20)	81	82	79	89	71	103	75
WG2010366-1BLANK	89	99	91	102	80	95	72
WG2010366-2LCS	82	92	90	95	77	95	76
WG2010366-3LCS	85	90	87	98	84	101	74

QC LIMITS

(30-130) S15 = PERFLUORO[1,2,3,4,5,6,7-13C7]UNDECANOIC ACID (M7-PFUDA)
(40-130) S16 = PERFLUORO[13C8]OCTANESULFONAMIDE (M8FOSA)
(25-135) S17 = N-DEUTERIOETHYLPERFLUORO-1-OCTANESULFONAMIDOACETIC ACID (D5-NETFOSAA)
(10-130) S18 = PERFLUORO[1,2-13C2]DODECANOIC ACID (MPFDOA)
(10-130) S19 = PERFLUORO[1,2-13C2]TETRADECANOIC ACID (M2PFTEDA)
(40-130) S20 = 2,3,3,3-TETRAFLUORO-2-[1,1,2,2,3,3,3-HEPTAFLUOROPROPOXY]-13C3-PROPANOIC ACID (M3HFPO-DA)
(10-130) S21 = N-METHYL-D3-PERFLUORO-1-OCTANESULFONAMIDE (D3-NMEFOSA)

*** Values outside of QC limits**

FORM II A2-NY-1633 (Continued)

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: P. W. Grosser
Project Name: ROANOKE SAND AND GRAVEL

Lab Number: L2470744
Project Number: BSD1504
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S22 ()	S23 ()	S24 ()	S25 ()	S26 ()	S27 ()	S28 ()	TOT OUT
3A (L2470744-03)	55	67	67	--	--	--	--	0
6A (L2470744-09)	81	99	100	--	--	--	--	0
8A (L2470744-13)	68	81	80	--	--	--	--	0
10A (L2470744-17)	81	94	94	--	--	--	--	0
FIELD BLANK (L2470744-20)	77	90	92	--	--	--	--	0
WG2010366-1BLANK	76	93	93	--	--	--	--	0
WG2010366-2LCS	77	94	95	--	--	--	--	0
WG2010366-3LCS	79	99	97	--	--	--	--	0

QC LIMITS
(10-130) S22 = N-ETHYL-D5-PERFLUORO-1-OCTANESULFONAMIDE (D5-NETFOSA)
(10-130) S23 = 2-(N-METHYL-D3-PERFLUORO-1-OCTANESULFONAMIDO)ETHAN-D4-OL (D7-NMEFOSE)
(10-130) S24 = 2-(N-ETHYL-D5-PERFLUORO-1-OCTANESULFONAMIDO)ETHAN-D4-OL (D9-NETFOSE)

*** Values outside of QC limits**

FORM II A2-NY-1633 (Continued)

Laboratory Control Sample (Low Level) Summary
Form 3
Semivolatiles

Client	: P. W. Grosser	Lab Number	: L2470744
Project Name	: ROANOKE SAND AND GRAVEL	Project Number	: BSD1504
Matrix (Level)	: WATER ()		
LCS Sample ID	: WG2010366-2	Analysis Date : 12/20/24 10:21	File ID : SCI08_241220_36.wiff2
LCSD Sample ID	:	Analysis Date :	File ID :

	Laboratory Control Sample (LOW)			Laboratory Control Duplicate (LOW)					
Parameter	True (ng/l)	Found (ng/l)	%R	True (ng/l)	Found (ng/l)	%R	RPD	Recovery Limits	RPD Limit
Perfluorobutanoic Acid (PFBA)	12.8	14.0	109				-	70-140	30
Perfluoropentanoic Acid (PFPeA)	6.4	7.28	114				-	65-135	30
Perfluorobutanesulfonic Acid (PFBS)	2.84	3.04	107				-	60-145	30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	12	11.8	99				-	70-145	30
Perfluorohexanoic Acid (PFHxA)	3.2	3.54	110				-	70-145	30
Perfluoropentanesulfonic Acid (PFPeS)	3.01	3.10	103				-	65-140	30
Perfluoroheptanoic Acid (PFHpA)	3.2	3.97	124				-	70-150	30
Perfluorohexanesulfonic Acid (PFHxS)	2.93	3.22	110				-	65-145	30
Perfluorooctanoic Acid (PFOA)	3.2	3.47	108				-	70-150	30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	12.2	13.5	111				-	65-155	30
Perfluoroheptanesulfonic Acid (PFHpS)	3.05	3.28	108				-	70-150	30
Perfluorononanoic Acid (PFNA)	3.2	3.83	120				-	70-150	30
Perfluorooctanesulfonic Acid	2.97	3.22	108				-	55-150	30

Laboratory Control Sample (Low Level) Summary
Form 3
Semivolatiles

Client	: P. W. Grosser	**Lab Number**	: L2470744
Project Name	: ROANOKE SAND AND GRAVEL	**Project Number**	: BSD1504
Matrix (Level)	: WATER ()		
LCS Sample ID	: WG2010366-2	**Analysis Date :** 12/20/24 10:21	**File ID** : SCI08_241220_36.wiff2
LCSD Sample ID	:	**Analysis Date :**	**File ID** :

	Laboratory Control Sample (LOW)			Laboratory Control Duplicate (LOW)					
Parameter	True (ng/l)	Found (ng/l)	%R	True (ng/l)	Found (ng/l)	%R	RPD	Recovery Limits	RPD Limit
(PFOS)									
Perfluorodecanoic Acid (PFDA)	3.2	4.41	138				-	70-140	30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	12.3	13.9	113				-	60-150	30
Perfluorononanesulfonic Acid (PFNS)	3.08	3.29	106				-	65-145	30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	3.2	3.69	115				-	50-140	30
Perfluoroundecanoic Acid (PFUnA)	3.2	4.62	144				-	70-145	30
Perfluorodecanesulfonic Acid (PFDS)	3.08	3.30	107				-	60-145	30
Perfluorooctanesulfonamide (PFOSA)	3.2	3.45	108				-	70-145	30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	3.2	3.54	110				-	70-145	30
Perfluorododecanoic Acid (PFDoA)	3.2	3.86	121				-	70-140	30
Perfluorotridecanoic Acid (PFTrDA)	3.2	3.61	113				-	65-140	30

Laboratory Control Sample (Low Level) Summary
Form 3
Semivolatiles

Client	: P. W. Grosser	**Lab Number**	: L2470744
Project Name	: ROANOKE SAND AND GRAVEL	**Project Number**	: BSD1504
Matrix (Level)	: WATER ()		
LCS Sample ID	: WG2010366-2	**Analysis Date :** 12/20/24 10:21	**File ID** : SCI08_241220_36.wiff2
LCSD Sample ID	:	**Analysis Date :**	**File ID** :

	Laboratory Control Sample (LOW)			Laboratory Control Duplicate (LOW)					
Parameter	True (ng/l)	Found (ng/l)	%R	True (ng/l)	Found (ng/l)	%R	RPD	Recovery Limits	RPD Limit
Perfluorotetradecanoic Acid (PFTeDA)	3.2	3.54	111				-	60-140	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	12.8	14.5	113				-	70-140	30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	12.1	14.8	122				-	65-145	30
Perfluorododecanesulfonic Acid (PFDoS)	3.11	3.25	104				-	50-145	30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	11.9	14.1	118				-	70-155	30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	12.1	13.8	114				-	55-160	30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	3.2	3.46	108				-	60-150	30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	3.2	3.70	116				-	65-145	30
N-Methyl Perfluorooctanesulfonami	32	37.3	117				-	70-145	30

Laboratory Control Sample (Low Level) Summary
Form 3
Semivolatiles

Client	: P. W. Grosser	Lab Number	: L2470744
Project Name	: ROANOKE SAND AND GRAVEL	Project Number	: BSD1504
Matrix (Level)	: WATER ()		
LCS Sample ID	: WG2010366-2	Analysis Date : 12/20/24 10:21	File ID : SCI08_241220_36.wiff2
LCSD Sample ID	:	Analysis Date :	File ID :

	Laboratory Control Sample (LOW)			Laboratory Control Duplicate (LOW)					
Parameter	True (ng/l)	Found (ng/l)	%R	True (ng/l)	Found (ng/l)	%R	RPD	Recovery Limits	RPD Limit
do Ethanol (NMeFOSE)									
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	32	37.6	117				-	70-135	30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	6.4	6.61	103				-	55-140	30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	6.4	7.28	114				-	60-150	30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	5.71	6.15	108				-	70-140	30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	6.4	7.27	114				-	50-150	30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	16	18.8	118				-	65-130	30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	80	87.3	109				-	70-135	30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	80	72.8	91				-	50-145	30

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: P. W. Grosser	**Lab Number**	: L2470744
Project Name	: ROANOKE SAND AND GRAVEL	**Project Number**	: BSD1504
Matrix (Level)	: WATER ()		
LCS Sample ID	: WG2010366-3	**Analysis Date** : 12/20/24 10:29	**File ID** : SCI08_241220_37.wiff2
LCSD Sample ID	:	**Analysis Date** :	**File ID** :

	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)	80	87.7	110				-	70-140	30
Perfluoropentanoic Acid (PFPeA)	40	43.1	108				-	65-135	30
Perfluorobutanesulfonic Acid (PFBS)	17.8	18.4	104				-	60-145	30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	75	80.6	108				-	70-145	30
Perfluorohexanoic Acid (PFHxA)	20	22.5	112				-	70-145	30
Perfluoropentanesulfonic Acid (PFPeS)	18.8	21.5	114				-	65-140	30
Perfluoroheptanoic Acid (PFHpA)	20	24.9	125				-	70-150	30
Perfluorohexanesulfonic Acid (PFHxS)	18.3	20.0	109				-	65-145	30
Perfluorooctanoic Acid (PFOA)	20	21.3	106				-	70-150	30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	76.1	88.9	117				-	65-155	30
Perfluoroheptanesulfonic Acid (PFHpS)	19	21.9	115				-	70-150	30
Perfluorononanoic Acid (PFNA)	20	24.6	123				-	70-150	30
Perfluorooctanesulfonic Acid	18.6	19.3	104				-	55-150	30

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: P. W. Grosser	**Lab Number**	: L2470744
Project Name	: ROANOKE SAND AND GRAVEL	**Project Number**	: BSD1504
Matrix (Level)	: WATER ()		
LCS Sample ID	: WG2010366-3	**Analysis Date** : 12/20/24 10:29	**File ID** : SCI08_241220_37.wiff2
LCSD Sample ID	:	**Analysis Date** :	**File ID** :

	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
(PFOS)									
Perfluorodecanoic Acid (PFDA)	20	26.4	132				-	70-140	30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	76.8	90.6	118				-	60-150	30
Perfluorononanesulfonic Acid (PFNS)	19.3	19.8	102				-	65-145	30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	20	21.3	106				-	50-140	30
Perfluoroundecanoic Acid (PFUnA)	20	28.5	142				-	70-145	30
Perfluorodecanesulfonic Acid (PFDS)	19.3	20.6	106				-	60-145	30
Perfluorooctanesulfonamide (PFOSA)	20	20.7	103				-	70-145	30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	20	20.2	101				-	70-145	30
Perfluorododecanoic Acid (PFDoA)	20	22.9	115				-	70-140	30
Perfluorotridecanoic Acid (PFTrDA)	20	21.4	107				-	65-140	30

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: P. W. Grosser	**Lab Number**	: L2470744
Project Name	: ROANOKE SAND AND GRAVEL	**Project Number**	: BSD1504
Matrix (Level)	: WATER ()		
LCS Sample ID	: WG2010366-3	**Analysis Date** : 12/20/24 10:29	**File ID** : SCI08_241220_37.wiff2
LCSD Sample ID	:	**Analysis Date** :	**File ID** :

	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
Perfluorotetradecanoic Acid (PFTeDA)	20	21.4	107				-	60-140	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	80	89.5	112				-	70-140	30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	75.6	90.9	120				-	65-145	30
Perfluorododecanesulfonic Acid (PFDoS)	19.4	19.4	100				-	50-145	30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	74.6	86.9	116				-	70-155	30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	75.4	81.8	108				-	55-160	30
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	20	21.0	105				-	60-150	30
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	20	22.1	110				-	65-145	30
N-Methyl Perfluorooctanesulfonami	200	214	107				-	70-145	30

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: P. W. Grosser	**Lab Number**	: L2470744
Project Name	: ROANOKE SAND AND GRAVEL	**Project Number**	: BSD1504
Matrix (Level)	: WATER ()		
LCS Sample ID	: WG2010366-3	**Analysis Date** : 12/20/24 10:29	**File ID** : SCI08_241220_37.wiff2
LCSD Sample ID	:	**Analysis Date** :	**File ID** :

Parameter	Laboratory Control Sample True (ng/l)	Found (ng/l)	%R	Laboratory Control Duplicate True (ng/l)	Found (ng/l)	%R	RPD	Recovery Limits	RPD Limit
do Ethanol (NMeFOSE)									
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	200	227	114				-	70-135	30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	40	41.0	103				-	55-140	30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	40	42.4	106				-	60-150	30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	35.7	41.4	116				-	70-140	30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	40	46.3	116				-	50-150	30
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	100	109	109				-	65-130	30
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	500	505	101				-	70-135	30
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	500	454	91				-	50-145	30

Method Blank Summary
Form 4
Semivolatiles

Client	: P. W. Grosser	**Lab Number**	: L2470744
Project Name	: ROANOKE SAND AND GRAVEL	**Project Number**	: BSD1504
Lab Sample ID	: WG2010366-1	**Lab File ID**	: SCI08_241220_35.wiff2
Instrument ID	: LCMS08	**Extraction Date**	: 12/17/24
Matrix	: WATER	**Analysis Date**	: 12/20/24 10:12
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG2010366-2LCS	WG2010366-2	12/20/24 10:21
WG2010366-3LCS	WG2010366-3	12/20/24 10:29
3A	L2470744-03	12/20/24 10:38
6A	L2470744-09	12/20/24 10:47
8A	L2470744-13	12/20/24 10:56
10A	L2470744-17	12/20/24 11:05
FIELD BLANK	L2470744-20	12/20/24 11:14

Date Created: 11/21/24
Created By: Jason Hebert
File: PM18019-1
Page: 1

PFAAs via EPA 1633 (WATER)

Holding Time: 28 days
Container/Sample Preservation: 2 - Plastic 500ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Perfluorobutanoic Acid (PFBA)	375-22-4	6.4	2.14	ng/l	70-140	30	70-140	30	30			
Perfluoropentanoic Acid (PFPeA)	2706-90-3	3.2	1.06	ng/l	65-135	30	65-135	30	30			
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	1.6	0.536	ng/l	60-145	30	60-145	30	30			
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	757124-72-4	6.4	2.14	ng/l	70-145	30	70-145	30	30			
Perfluorohexanoic Acid (PFHxA)	307-24-4	1.6	0.536	ng/l	70-145	30	70-145	30	30			
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	1.6	0.536	ng/l	65-140	30	65-140	30	30			
Perfluoroheptanoic Acid (PFHpA)	375-85-9	1.6	0.536	ng/l	70-150	30	70-150	30	30			
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	1.6	0.536	ng/l	65-145	30	65-145	30	30			
Perfluorooctanoic Acid (PFOA)	335-67-1	1.6	0.536	ng/l	70-150	30	70-150	30	30			
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	6.4	4.82	ng/l	65-155	30	65-155	30	30			
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	1.6	0.536	ng/l	70-150	30	70-150	30	30			
Perfluorononanoic Acid (PFNA)	375-95-1	1.6	0.536	ng/l	70-150	30	70-150	30	30			
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	1.6	0.536	ng/l	55-150	30	55-150	30	30			
Perfluorodecanoic Acid (PFDA)	335-76-2	1.6	0.536	ng/l	70-140	30	70-140	30	30			
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	6.4	2.14	ng/l	60-150	30	60-150	30	30			
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	1.6	0.536	ng/l	65-145	30	65-145	30	30			
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA	2355-31-9	1.6	0.536	ng/l	50-140	30	50-140	30	30			
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	1.6	0.536	ng/l	70-145	30	70-145	30	30			
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	1.6	0.536	ng/l	60-145	30	60-145	30	30			
Perfluorooctanesulfonamide (FOSA)	754-91-6	1.6	0.536	ng/l	70-145	30	70-145	30	30			
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	1.6	0.536	ng/l	70-145	30	70-145	30	30			
Perfluorododecanoic Acid (PFDoA)	307-55-1	1.6	0.536	ng/l	70-140	30	70-140	30	30			
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	1.6	0.536	ng/l	65-140	30	65-140	30	30			
Perfluorotetradecanoic Acid (PFTA)	376-06-7	1.6	0.536	ng/l	60-140	30	60-140	30	30			
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Pro	13252-13-6	6.4	2.14	ng/l	70-140	30	70-140	30	30			
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	919005-14-4	6.4	2.14	ng/l	65-145	30	65-145	30	30			
Perfluorododecane Sulfonic Acid (PFDoDS)	79780-39-5	1.6	0.536	ng/l	50-145	30	50-145	30	30			
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3	756426-58-1	6.4	2.14	ng/l	70-155	30	70-155	30	30			
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-	763051-92-9	6.4	2.14	ng/l	55-160	30	55-160	30	30			
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	31506-32-8	1.6	0.536	ng/l	60-150	30	60-150	30	30			
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	4151-50-2	1.6	0.536	ng/l	65-145	30	65-145	30	30			
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	24448-09-7	16	5.36	ng/l	70-145	30	70-145	30	30			
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	1691-99-2	16	5.36	ng/l	70-135	30	70-135	30	30			
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	377-73-1	3.2	1.06	ng/l	55-140	30	55-140	30	30			
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	863090-89-5	3.2	1.06	ng/l	60-150	30	60-150	30	30			
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	113507-82-7	3.2	1.06	ng/l	70-140	30	70-140	30	30			
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	151772-58-6	3.2	1.06	ng/l	50-150	30	50-150	30	30			
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	356-02-5	8	2.66	ng/l	65-130	30	65-130	30	30			
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	914637-49-3	40	13.4	ng/l	70-135	30	70-135	30	30			
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	812-70-4	40	13.4	ng/l	50-145	30	50-145	30	30			
Perfluoro[13C4]Butanoic Acid (MPFBA)	*NONE*									*5-130*		
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	*NONE*									*40-130*		

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Date Created: 11/21/24
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PFAAs via EPA 1633 (WATER)

Holding Time: 28 days
Container/Sample Preservation: 2 - Plastic 500ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	*NONE*									*40-135*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4	*NONE*									*40-200*		
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	*NONE*									*40-130*		
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	*NONE*									*40-130*		
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	*NONE*									*40-130*		
Perfluoro[13C8]Octanoic Acid (M8PFOA)	*NONE*									*40-130*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:	*NONE*									*40-200*		
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	*NONE*									*40-130*		
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	*NONE*									*40-130*		
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	*NONE*									*40-130*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8	*NONE*									*40-300*		
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (	*NONE*									*40-170*		
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	*NONE*									*30-130*		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	*NONE*									*40-130*		
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5	*NONE*									*25-135*		
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	*NONE*									*10-130*		
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	*NONE*									*10-130*		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13	*NONE*									*40-130*		
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)	*NONE*									*10-130*		
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)	*NONE*									*10-130*		
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol	*1265205-95-5*									*10-130*		
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d	*NONE*									*10-130*		

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Date Created: 11/21/24
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PFAAs via EPA 1633 (SOIL)

Holding Time: 90 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	0.8	0.266	ng/g	70-140	30	70-140	30	30			
Perfluoropentanoic Acid (PFPeA)	2706-90-3	0.4	0.134	ng/g	60-150	30	60-150	30	30			
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	0.2	0.067	ng/g	65-145	30	65-145	30	30			
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	757124-72-4	0.8	0.266	ng/g	60-150	30	60-150	30	30			
Perfluorohexanoic Acid (PFHxA)	307-24-4	0.2	0.067	ng/g	65-140	30	65-140	30	30			
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	0.2	0.067	ng/g	55-160	30	55-160	30	30			
Perfluoroheptanoic Acid (PFHpA)	375-85-9	0.2	0.067	ng/g	65-145	30	65-145	30	30			
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	0.2	0.067	ng/g	60-150	30	60-150	30	30			
Perfluorooctanoic Acid (PFOA)	335-67-1	0.2	0.067	ng/g	70-150	30	70-150	30	30			
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	0.8	0.266	ng/g	55-200	30	55-200	30	30			
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	0.2	0.067	ng/g	65-155	30	65-155	30	30			
Perfluorononanoic Acid (PFNA)	375-95-1	0.2	0.067	ng/g	70-155	30	70-155	30	30			
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.2	0.067	ng/g	65-160	30	65-160	30	30			
Perfluorodecanoic Acid (PFDA)	335-76-2	0.2	0.067	ng/g	70-155	30	70-155	30	30			
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	0.8	0.266	ng/g	70-150	30	70-150	30	30			
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	0.2	0.067	ng/g	55-140	30	55-140	30	30			
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA	2355-31-9	0.2	0.086	ng/g	65-155	30	65-155	30	30			
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	0.2	0.067	ng/g	70-155	30	70-155	30	30			
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	0.2	0.067	ng/g	40-155	30	40-155	30	30			
Perfluorooctanesulfonamide (FOSA)	754-91-6	0.2	0.067	ng/g	70-140	30	70-140	30	30			
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	0.2	0.067	ng/g	65-165	30	65-165	30	30			
Perfluorododecanoic Acid (PFDoA)	307-55-1	0.2	0.067	ng/g	70-150	30	70-150	30	30			
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	0.2	0.067	ng/g	65-150	30	65-150	30	30			
Perfluorotetradecanoic Acid (PFTA)	376-06-7	0.2	0.067	ng/g	65-150	30	65-150	30	30			
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Pro	13252-13-6	0.8	0.266	ng/g	70-145	30	70-145	30	30			
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	919005-14-4	0.8	0.266	ng/g	70-160	30	70-160	30	30			
Perfluorododecane Sulfonic Acid (PFDoDS)	79780-39-5	0.2	0.067	ng/g	25-160	30	25-160	30	30			
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3	756426-58-1	0.8	0.266	ng/g	70-150	30	70-150	30	30			
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-	763051-92-9	0.8	0.266	ng/g	45-160	30	45-160	30	30			
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	31506-32-8	0.2	0.067	ng/g	70-155	30	70-155	30	30			
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	4151-50-2	0.2	0.067	ng/g	70-140	30	70-140	30	30			
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	24448-09-7	2	0.666	ng/g	70-140	30	70-140	30	30			
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	1691-99-2	2	0.666	ng/g	70-135	30	70-135	30	30			
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	377-73-1	0.4	0.134	ng/g	30-140	30	30-140	30	30			
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	863090-89-5	0.4	0.134	ng/g	60-150	30	60-150	30	30			
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	113507-82-7	0.4	0.134	ng/g	70-140	30	70-140	30	30			
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	151772-58-6	0.4	0.134	ng/g	60-155	30	60-155	30	30			
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	356-02-5	1	0.334	ng/g	45-130	30	45-130	30	30			
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	914637-49-3	5	1.664	ng/g	60-130	30	60-130	30	30			
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	812-70-4	5	1.664	ng/g	60-150	30	60-150	30	30			
Perfluoro[13C4]Butanoic Acid (MPFBA)	*NONE*									*8-130*		
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	*NONE*									*35-130*		

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Date Created: 11/21/24
Created By: Jason Hebert
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PFAAs via EPA 1633 (SOIL)

Holding Time: 90 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		
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	*NONE*									*40-135*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4	*NONE*									*40-165*		
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	*NONE*									*40-130*		
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	*NONE*									*40-130*		
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	*NONE*									*40-130*		
Perfluoro[13C8]Octanoic Acid (M8PFOA)	*NONE*									*40-130*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:	*NONE*									*40-215*		
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	*NONE*									*40-130*		
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	*NONE*									*40-130*		
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	*NONE*									*40-130*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8	*NONE*									*40-275*		
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (	*NONE*									*40-135*		
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	*NONE*									*40-130*		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	*NONE*									*40-130*		
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5	*NONE*									*40-150*		
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	*NONE*									*40-130*		
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	*NONE*									*20-130*		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13	*NONE*									*40-130*		
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)	*NONE*									*10-130*		
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)	*NONE*									*10-130*		
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol	*1265205-95-5*									*20-130*		
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d	*NONE*									*15-130*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
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Semivolatile Sample Data

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: P. W. Grosser	Lab Number	: L2470744
Project Name	: ROANOKE SAND AND GRAVEL	Project Number	: BSD1504
Lab ID	: L2470744-03	Date Collected	: 12/02/24 10:00
Client ID	: 3A	Date Received	: 12/03/24
Sample Location	: MIDDLE ISLAND	Date Analyzed	: 12/20/24 10:38
Sample Matrix	: WATER	Date Extracted	: 12/17/24
Analytical Method	: 144,1633	Dilution Factor	: 1
Lab File ID	: SCI08_241220_38	Analyst	: AC
Sample Amount	: 525.76 g	Instrument ID	: LCMS08
Extraction Method	: EPA 1633	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 4000 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)	2.28	6.09	0.502	J
2706-90-3	Perfluoropentanoic Acid (PFPeA)	0.624	3.04	0.342	J
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	1.34	1.52	0.380	J
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	6.09	0.867	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	0.677	1.52	0.236	J
2706-91-4	Perfluoropentanesulfonic Acid (PFPeS)	ND	1.52	0.198	U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	1.36	1.52	0.228	J
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	1.80	1.52	0.129	
335-67-1	Perfluorooctanoic Acid (PFOA)	3.93	1.52	0.251	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	6.09	4.58	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.52	0.190	U
375-95-1	Perfluorononanoic Acid (PFNA)	1.70	1.52	0.251	
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	5.91	1.52	0.251	
335-76-2	Perfluorodecanoic Acid (PFDA)	2.63	1.52	0.198	
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	6.09	1.16	U
68259-12-1	Perfluorononanesulfonic Acid (PFNS)	ND	1.52	0.190	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	1.52	0.456	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.52	0.167	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: P. W. Grosser	Lab Number	: L2470744
Project Name	: ROANOKE SAND AND GRAVEL	Project Number	: BSD1504
Lab ID	: L2470744-03	Date Collected	: 12/02/24 10:00
Client ID	: 3A	Date Received	: 12/03/24
Sample Location	: MIDDLE ISLAND	Date Analyzed	: 12/20/24 10:38
Sample Matrix	: WATER	Date Extracted	: 12/17/24
Analytical Method	: 144,1633	Dilution Factor	: 1
Lab File ID	: SCI08_241220_38	Analyst	: AC
Sample Amount	: 525.76 g	Instrument ID	: LCMS08
Extraction Method	: EPA 1633	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.52	0.129	U
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND	1.52	0.091	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.52	0.456	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.52	0.205	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.52	0.175	U
376-06-7	Perfluorotetradecanoic Acid (PFTeDA)	ND	1.52	0.152	U
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	6.09	1.52	U
919005-14-4	4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	6.09	0.358	U
79780-39-5	Perfluorododecanesulfonic Acid (PFDoS)	ND	1.52	0.228	U
756426-58-1	9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	6.09	0.418	U
763051-92-9	11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	6.09	0.426	U
31506-32-8	N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND	1.52	0.213	U
4151-50-2	N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND	1.52	0.335	U
24448-09-7	N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND	15.2	1.24	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: P. W. Grosser	Lab Number	: L2470744
Project Name	: ROANOKE SAND AND GRAVEL	Project Number	: BSD1504
Lab ID	: L2470744-03	Date Collected	: 12/02/24 10:00
Client ID	: 3A	Date Received	: 12/03/24
Sample Location	: MIDDLE ISLAND	Date Analyzed	: 12/20/24 10:38
Sample Matrix	: WATER	Date Extracted	: 12/17/24
Analytical Method	: 144,1633	Dilution Factor	: 1
Lab File ID	: SCI08_241220_38	Analyst	: AC
Sample Amount	: 525.76 g	Instrument ID	: LCMS08
Extraction Method	: EPA 1633	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
1691-99-2	N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND	15.2	1.05	U
377-73-1	Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	3.04	0.236	U
863090-89-5	Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	3.04	0.342	U
113507-82-7	Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	3.04	0.312	U
151772-58-6	Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	3.04	0.517	U
356-02-5	3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND	7.61	0.510	U
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND	38.0	4.05	U
812-70-4	3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND	38.0	3.03	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: P. W. Grosser	Lab Number	: L2470744
Project Name	: ROANOKE SAND AND GRAVEL	Project Number	: BSD1504
Lab ID	: L2470744-09	Date Collected	: 12/02/24 14:20
Client ID	: 6A	Date Received	: 12/03/24
Sample Location	: MIDDLE ISLAND	Date Analyzed	: 12/20/24 10:47
Sample Matrix	: WATER	Date Extracted	: 12/17/24
Analytical Method	: 144,1633	Dilution Factor	: 1
Lab File ID	: SCI08_241220_39	Analyst	: AC
Sample Amount	: 513.86 g	Instrument ID	: LCMS08
Extraction Method	: EPA 1633	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 4000 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)	1.80	6.23	0.514	J
2706-90-3	Perfluoropentanoic Acid (PFPeA)	1.46	3.11	0.350	J
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	0.887	1.56	0.389	J
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	6.23	0.887	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	1.42	1.56	0.241	J
2706-91-4	Perfluoropentanesulfonic Acid (PFPeS)	ND	1.56	0.202	U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	1.42	1.56	0.234	J
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	2.85	1.56	0.132	
335-67-1	Perfluorooctanoic Acid (PFOA)	5.39	1.56	0.257	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	6.23	4.69	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.56	0.195	U
375-95-1	Perfluorononanoic Acid (PFNA)	2.24	1.56	0.257	
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	13.6	1.56	0.257	
335-76-2	Perfluorodecanoic Acid (PFDA)	0.459	1.56	0.202	JF
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	6.23	1.19	U
68259-12-1	Perfluorononanesulfonic Acid (PFNS)	ND	1.56	0.195	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	1.56	0.467	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.56	0.171	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: P. W. Grosser	Lab Number	: L2470744
Project Name	: ROANOKE SAND AND GRAVEL	Project Number	: BSD1504
Lab ID	: L2470744-09	Date Collected	: 12/02/24 14:20
Client ID	: 6A	Date Received	: 12/03/24
Sample Location	: MIDDLE ISLAND	Date Analyzed	: 12/20/24 10:47
Sample Matrix	: WATER	Date Extracted	: 12/17/24
Analytical Method	: 144,1633	Dilution Factor	: 1
Lab File ID	: SCI08_241220_39	Analyst	: AC
Sample Amount	: 513.86 g	Instrument ID	: LCMS08
Extraction Method	: EPA 1633	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.56	0.132	U
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND	1.56	0.093	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.56	0.467	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.56	0.210	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.56	0.179	U
376-06-7	Perfluorotetradecanoic Acid (PFTeDA)	ND	1.56	0.156	U
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	6.23	1.56	U
919005-14-4	4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	6.23	0.366	U
79780-39-5	Perfluorododecanesulfonic Acid (PFDoS)	ND	1.56	0.234	U
756426-58-1	9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	6.23	0.428	U
763051-92-9	11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	6.23	0.436	U
31506-32-8	N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND	1.56	0.218	U
4151-50-2	N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND	1.56	0.342	U
24448-09-7	N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND	15.6	1.27	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: P. W. Grosser	Lab Number	: L2470744
Project Name	: ROANOKE SAND AND GRAVEL	Project Number	: BSD1504
Lab ID	: L2470744-09	Date Collected	: 12/02/24 14:20
Client ID	: 6A	Date Received	: 12/03/24
Sample Location	: MIDDLE ISLAND	Date Analyzed	: 12/20/24 10:47
Sample Matrix	: WATER	Date Extracted	: 12/17/24
Analytical Method	: 144,1633	Dilution Factor	: 1
Lab File ID	: SCI08_241220_39	Analyst	: AC
Sample Amount	: 513.86 g	Instrument ID	: LCMS08
Extraction Method	: EPA 1633	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
1691-99-2	N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND	15.6	1.07	U
377-73-1	Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	3.11	0.241	U
863090-89-5	Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	3.11	0.350	U
113507-82-7	Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	3.11	0.319	U
151772-58-6	Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	3.11	0.529	U
356-02-5	3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND	7.78	0.522	U
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND	38.9	4.14	U
812-70-4	3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND	38.9	3.10	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: P. W. Grosser	Lab Number	: L2470744
Project Name	: ROANOKE SAND AND GRAVEL	Project Number	: BSD1504
Lab ID	: L2470744-13	Date Collected	: 12/03/24 13:25
Client ID	: 8A	Date Received	: 12/03/24
Sample Location	: MIDDLE ISLAND	Date Analyzed	: 12/20/24 10:56
Sample Matrix	: WATER	Date Extracted	: 12/17/24
Analytical Method	: 144,1633	Dilution Factor	: 1
Lab File ID	: SCI08_241220_40	Analyst	: AC
Sample Amount	: 508.7 g	Instrument ID	: LCMS08
Extraction Method	: EPA 1633	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 4000 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)	2.66	6.29	0.519	J
2706-90-3	Perfluoropentanoic Acid (PFPeA)	2.00	3.14	0.354	J
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	3.05	1.57	0.393	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	6.29	0.896	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	2.63	1.57	0.244	
2706-91-4	Perfluoropentanesulfonic Acid (PFPeS)	0.228	1.57	0.204	J
375-85-9	Perfluoroheptanoic Acid (PFHpA)	3.43	1.57	0.236	
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	1.42	1.57	0.134	J
335-67-1	Perfluorooctanoic Acid (PFOA)	6.68	1.57	0.259	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	6.29	4.73	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.57	0.196	U
375-95-1	Perfluorononanoic Acid (PFNA)	0.377	1.57	0.259	J
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	1.51	1.57	0.259	J
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.57	0.204	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	6.29	1.20	U
68259-12-1	Perfluorononanesulfonic Acid (PFNS)	ND	1.57	0.196	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	1.57	0.472	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.57	0.173	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: P. W. Grosser	Lab Number	: L2470744
Project Name	: ROANOKE SAND AND GRAVEL	Project Number	: BSD1504
Lab ID	: L2470744-13	Date Collected	: 12/03/24 13:25
Client ID	: 8A	Date Received	: 12/03/24
Sample Location	: MIDDLE ISLAND	Date Analyzed	: 12/20/24 10:56
Sample Matrix	: WATER	Date Extracted	: 12/17/24
Analytical Method	: 144,1633	Dilution Factor	: 1
Lab File ID	: SCI08_241220_40	Analyst	: AC
Sample Amount	: 508.7 g	Instrument ID	: LCMS08
Extraction Method	: EPA 1633	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.57	0.134	U
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND	1.57	0.094	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.57	0.472	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.57	0.212	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.57	0.181	U
376-06-7	Perfluorotetradecanoic Acid (PFTeDA)	ND	1.57	0.157	U
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	6.29	1.57	U
919005-14-4	4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	6.29	0.370	U
79780-39-5	Perfluorododecanesulfonic Acid (PFDoS)	ND	1.57	0.236	U
756426-58-1	9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	6.29	0.432	U
763051-92-9	11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	6.29	0.440	U
31506-32-8	N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND	1.57	0.220	U
4151-50-2	N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND	1.57	0.346	U
24448-09-7	N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND	15.7	1.28	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: P. W. Grosser	Lab Number	: L2470744
Project Name	: ROANOKE SAND AND GRAVEL	Project Number	: BSD1504
Lab ID	: L2470744-13	Date Collected	: 12/03/24 13:25
Client ID	: 8A	Date Received	: 12/03/24
Sample Location	: MIDDLE ISLAND	Date Analyzed	: 12/20/24 10:56
Sample Matrix	: WATER	Date Extracted	: 12/17/24
Analytical Method	: 144,1633	Dilution Factor	: 1
Lab File ID	: SCI08_241220_40	Analyst	: AC
Sample Amount	: 508.7 g	Instrument ID	: LCMS08
Extraction Method	: EPA 1633	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
1691-99-2	N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND	15.7	1.08	U
377-73-1	Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	3.14	0.244	U
863090-89-5	Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	3.14	0.354	U
113507-82-7	Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	3.14	0.322	U
151772-58-6	Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	3.14	0.535	U
356-02-5	3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND	7.86	0.527	U
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND	39.3	4.18	U
812-70-4	3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND	39.3	3.13	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: P. W. Grosser	Lab Number	: L2470744
Project Name	: ROANOKE SAND AND GRAVEL	Project Number	: BSD1504
Lab ID	: L2470744-17	Date Collected	: 12/03/24 11:40
Client ID	: 10A	Date Received	: 12/03/24
Sample Location	: MIDDLE ISLAND	Date Analyzed	: 12/20/24 11:05
Sample Matrix	: WATER	Date Extracted	: 12/17/24
Analytical Method	: 144,1633	Dilution Factor	: 1
Lab File ID	: SCI08_241220_41	Analyst	: AC
Sample Amount	: 513.18 g	Instrument ID	: LCMS08
Extraction Method	: EPA 1633	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 4000 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)	2.92	6.24	0.514	J
2706-90-3	Perfluoropentanoic Acid (PFPeA)	1.65	3.12	0.351	J
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	2.52	1.56	0.390	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	6.24	0.888	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	1.31	1.56	0.242	J
2706-91-4	Perfluoropentanesulfonic Acid (PFPeS)	0.210	1.56	0.203	J
375-85-9	Perfluoroheptanoic Acid (PFHpA)	0.857	1.56	0.234	J
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	0.795	1.56	0.132	J
335-67-1	Perfluorooctanoic Acid (PFOA)	1.96	1.56	0.257	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	6.24	4.69	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.56	0.195	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	1.56	0.257	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	1.22	1.56	0.257	J
335-76-2	Perfluorodecanoic Acid (PFDA)	0.281	1.56	0.203	J
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	6.24	1.19	U
68259-12-1	Perfluorononanesulfonic Acid (PFNS)	ND	1.56	0.195	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.56	0.468	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.56	0.171	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: P. W. Grosser	Lab Number	: L2470744
Project Name	: ROANOKE SAND AND GRAVEL	Project Number	: BSD1504
Lab ID	: L2470744-17	Date Collected	: 12/03/24 11:40
Client ID	: 10A	Date Received	: 12/03/24
Sample Location	: MIDDLE ISLAND	Date Analyzed	: 12/20/24 11:05
Sample Matrix	: WATER	Date Extracted	: 12/17/24
Analytical Method	: 144,1633	Dilution Factor	: 1
Lab File ID	: SCI08_241220_41	Analyst	: AC
Sample Amount	: 513.18 g	Instrument ID	: LCMS08
Extraction Method	: EPA 1633	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

CAS NO.	Parameter	ng/l Results	RL	MDL	Qualifier
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.56	0.132	U
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND	1.56	0.094	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.56	0.468	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.56	0.210	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.56	0.179	U
376-06-7	Perfluorotetradecanoic Acid (PFTeDA)	ND	1.56	0.156	U
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	6.24	1.56	U
919005-14-4	4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	6.24	0.366	U
79780-39-5	Perfluorododecanesulfonic Acid (PFDoS)	ND	1.56	0.234	U
756426-58-1	9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	6.24	0.429	U
763051-92-9	11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	6.24	0.436	U
31506-32-8	N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND	1.56	0.218	U
4151-50-2	N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND	1.56	0.343	U
24448-09-7	N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND	15.6	1.27	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: P. W. Grosser	Lab Number	: L2470744
Project Name	: ROANOKE SAND AND GRAVEL	Project Number	: BSD1504
Lab ID	: L2470744-17	Date Collected	: 12/03/24 11:40
Client ID	: 10A	Date Received	: 12/03/24
Sample Location	: MIDDLE ISLAND	Date Analyzed	: 12/20/24 11:05
Sample Matrix	: WATER	Date Extracted	: 12/17/24
Analytical Method	: 144,1633	Dilution Factor	: 1
Lab File ID	: SCI08_241220_41	Analyst	: AC
Sample Amount	: 513.18 g	Instrument ID	: LCMS08
Extraction Method	: EPA 1633	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
1691-99-2	N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND	15.6	1.08	U
377-73-1	Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	3.12	0.242	U
863090-89-5	Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	3.12	0.351	U
113507-82-7	Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	3.12	0.320	U
151772-58-6	Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	3.12	0.530	U
356-02-5	3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND	7.79	0.522	U
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND	39.0	4.15	U
812-70-4	3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND	39.0	3.10	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: P. W. Grosser	Lab Number	: L2470744
Project Name	: ROANOKE SAND AND GRAVEL	Project Number	: BSD1504
Lab ID	: L2470744-20	Date Collected	: 12/02/24 10:00
Client ID	: FIELD BLANK	Date Received	: 12/03/24
Sample Location	: MIDDLE ISLAND	Date Analyzed	: 12/20/24 11:14
Sample Matrix	: WATER	Date Extracted	: 12/17/24
Analytical Method	: 144,1633	Dilution Factor	: 1
Lab File ID	: SCI08_241220_42	Analyst	: AC
Sample Amount	: 552.92 g	Instrument ID	: LCMS08
Extraction Method	: EPA 1633	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 4000 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	5.79	0.477	U
2706-90-3	Perfluoropentanoic Acid (PFPeA)	ND	2.89	0.326	U
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	1.45	0.362	U
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	5.79	0.825	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	ND	1.45	0.224	U
2706-91-4	Perfluoropentanesulfonic Acid (PFPeS)	ND	1.45	0.188	U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	1.45	0.217	U
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	1.45	0.123	U
335-67-1	Perfluorooctanoic Acid (PFOA)	ND	1.45	0.239	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	5.79	4.36	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.45	0.181	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	1.45	0.239	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	ND	1.45	0.239	U
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.45	0.188	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.79	1.11	U
68259-12-1	Perfluorononanesulfonic Acid (PFNS)	ND	1.45	0.181	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.45	0.434	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.45	0.159	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: P. W. Grosser	Lab Number	: L2470744
Project Name	: ROANOKE SAND AND GRAVEL	Project Number	: BSD1504
Lab ID	: L2470744-20	Date Collected	: 12/02/24 10:00
Client ID	: FIELD BLANK	Date Received	: 12/03/24
Sample Location	: MIDDLE ISLAND	Date Analyzed	: 12/20/24 11:14
Sample Matrix	: WATER	Date Extracted	: 12/17/24
Analytical Method	: 144,1633	Dilution Factor	: 1
Lab File ID	: SCI08_241220_42	Analyst	: AC
Sample Amount	: 552.92 g	Instrument ID	: LCMS08
Extraction Method	: EPA 1633	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.45	0.123	U
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND	1.45	0.087	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.45	0.434	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.45	0.195	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.45	0.166	U
376-06-7	Perfluorotetradecanoic Acid (PFTeDA)	ND	1.45	0.145	U
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	5.79	1.45	U
919005-14-4	4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	5.79	0.340	U
79780-39-5	Perfluorododecanesulfonic Acid (PFDoS)	ND	1.45	0.217	U
756426-58-1	9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	5.79	0.398	U
763051-92-9	11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	5.79	0.405	U
31506-32-8	N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND	1.45	0.202	U
4151-50-2	N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND	1.45	0.318	U
24448-09-7	N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND	14.5	1.18	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: P. W. Grosser	Lab Number	: L2470744
Project Name	: ROANOKE SAND AND GRAVEL	Project Number	: BSD1504
Lab ID	: L2470744-20	Date Collected	: 12/02/24 10:00
Client ID	: FIELD BLANK	Date Received	: 12/03/24
Sample Location	: MIDDLE ISLAND	Date Analyzed	: 12/20/24 11:14
Sample Matrix	: WATER	Date Extracted	: 12/17/24
Analytical Method	: 144,1633	Dilution Factor	: 1
Lab File ID	: SCI08_241220_42	Analyst	: AC
Sample Amount	: 552.92 g	Instrument ID	: LCMS08
Extraction Method	: EPA 1633	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

		ng/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
1691-99-2	N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND	14.5	0.998	U
377-73-1	Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	2.89	0.224	U
863090-89-5	Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	2.89	0.326	U
113507-82-7	Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	2.89	0.297	U
151772-58-6	Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	2.89	0.492	U
356-02-5	3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND	7.23	0.485	U
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND	36.2	3.85	U
812-70-4	3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND	36.2	2.88	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: P. W. Grosser	Lab Number	: L2470744
Project Name	: ROANOKE SAND AND GRAVEL	Project Number	: BSD1504
Lab ID	: WG2010366-1	Date Collected	: NA
Client ID	: WG2010366-1BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 12/20/24 10:12
Sample Matrix	: WATER	Date Extracted	: 12/17/24
Analytical Method	: 144,1633	Dilution Factor	: 1
Lab File ID	: SCI08_241220_35	Analyst	: AC
Sample Amount	: 500 g	Instrument ID	: LCMS08
Extraction Method	: EPA 1633	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

CAS NO.	Parameter	ng/l Results	RL	MDL	Qualifier
375-22-4	Perfluorobutanoic Acid (PFBA)	ND	6.40	0.528	U
2706-90-3	Perfluoropentanoic Acid (PFPeA)	ND	3.20	0.360	U
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	1.60	0.400	U
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	6.40	0.912	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	ND	1.60	0.248	U
2706-91-4	Perfluoropentanesulfonic Acid (PFPeS)	ND	1.60	0.208	U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	1.60	0.240	U
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	1.60	0.136	U
335-67-1	Perfluorooctanoic Acid (PFOA)	ND	1.60	0.264	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	6.40	4.82	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.60	0.200	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	1.60	0.264	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	ND	1.60	0.264	U
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.60	0.208	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	6.40	1.22	U
68259-12-1	Perfluorononanesulfonic Acid (PFNS)	ND	1.60	0.200	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	1.60	0.480	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.60	0.176	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: P. W. Grosser	Lab Number	: L2470744
Project Name	: ROANOKE SAND AND GRAVEL	Project Number	: BSD1504
Lab ID	: WG2010366-1	Date Collected	: NA
Client ID	: WG2010366-1BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 12/20/24 10:12
Sample Matrix	: WATER	Date Extracted	: 12/17/24
Analytical Method	: 144,1633	Dilution Factor	: 1
Lab File ID	: SCI08_241220_35	Analyst	: AC
Sample Amount	: 500 g	Instrument ID	: LCMS08
Extraction Method	: EPA 1633	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

CAS NO.	Parameter	ng/l Results	RL	MDL	Qualifier
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.60	0.136	U
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND	1.60	0.096	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.60	0.480	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.60	0.216	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.60	0.184	U
376-06-7	Perfluorotetradecanoic Acid (PFTeDA)	ND	1.60	0.160	U
13252-13-6	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	6.40	1.60	U
919005-14-4	4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	6.40	0.376	U
79780-39-5	Perfluorododecanesulfonic Acid (PFDoS)	ND	1.60	0.240	U
756426-58-1	9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	6.40	0.440	U
763051-92-9	11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	6.40	0.448	U
31506-32-8	N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	ND	1.60	0.224	U
4151-50-2	N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	ND	1.60	0.352	U
24448-09-7	N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	ND	16.0	1.30	U

Results Summary
Form 1
Perfluorinated Alkyl Acids by EPA 1633

Client	: P. W. Grosser	Lab Number	: L2470744
Project Name	: ROANOKE SAND AND GRAVEL	Project Number	: BSD1504
Lab ID	: WG2010366-1	Date Collected	: NA
Client ID	: WG2010366-1BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 12/20/24 10:12
Sample Matrix	: WATER	Date Extracted	: 12/17/24
Analytical Method	: 144,1633	Dilution Factor	: 1
Lab File ID	: SCI08_241220_35	Analyst	: AC
Sample Amount	: 500 g	Instrument ID	: LCMS08
Extraction Method	: EPA 1633	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 4000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 3 uL

CAS NO.	Parameter	ng/l Results	RL	MDL	Qualifier
1691-99-2	N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	ND	16.0	1.10	U
377-73-1	Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	3.20	0.248	U
863090-89-5	Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	3.20	0.360	U
113507-82-7	Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	3.20	0.328	U
151772-58-6	Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	3.20	0.544	U
356-02-5	3-Perfluoropropyl Propanoic Acid (3:3FTCA)	ND	8.00	0.536	U
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	ND	40.0	4.26	U
812-70-4	3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	ND	40.0	3.18	U

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Alpha Analytical LLC
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Description: WG2011615,WG2010366,ICAL21783
Instrument: SCIEX Triple Quad 5500+
User: LCMS08:AC

LC/MS-MS Method:EPA-1633F

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
1	PFBA	375-22-4	0.63	213.0 / 169.0	21761		0.300	N/A	N/A	N/A	N/A
2	PFPeA	2706-90-3	1.22	263.0 / 219.0	5712		0.082	N/A	0.008	N/A	N/A
3	PFPeA_2	2706-90-3	N/A	263.0 / 68.9	N/A		N/A	N/A	0.008	N/A	N/A
4	PFHxA	307-24-4	1.99	313.0 / 269.0	8088		0.089	0.081	0.084	Pass	N/A
5	PFHxA_2	307-24-4	1.99	313.0 / 119.0	656	M2	0.090	0.081	0.084	Pass	N/A
6	PFHpA	375-85-9	2.56	363.1 / 319.0	15796		0.179	0.351	0.404	Pass	N/A
7	PFHpA_2	375-85-9	2.57	363.1 / 169.0	5538		0.149	0.351	0.404	Pass	N/A

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
8	PFOA	335-67-1	3.05	413.1 / 369.1	42935	M5	0.517	0.418	0.562	Pass	N/A
9	PFOA_2	335-67-1	3.05	413.1 / 169.0	17938	M5	0.414	0.418	0.562	Pass	N/A
10	PFNA	375-95-1	3.50	462.8 / 418.9	14930		0.224	0.298	0.464	Pass	N/A
11	PFNA_2	375-95-1	3.50	462.8 / 219.0	4444		0.146	0.298	0.464	Pass	N/A
12	PFDA	335-76-2	3.93	513.1 / 469.1	33105		0.346	0.231	0.264	Pass	N/A
13	PFDA_2	335-76-2	3.93	513.1 / 219.0	7643		0.314	0.231	0.264	Pass	N/A
14	PFUnA	2058-94-8	N/A	563.1 / 519.1	N/A		N/A	N/A	0.204	N/A	N/A
15	PFUnA_2	2058-94-8	N/A	563.1 / 269.0	N/A		N/A	N/A	0.204	N/A	N/A
16	PFDoA	307-55-1	N/A	613.1 / 569.1	N/A		N/A	N/A	0.194	N/A	N/A
17	PFDoA_2	307-55-1	N/A	613.1 / 319.0	N/A		N/A	N/A	0.194	N/A	N/A
18	PFTrDA	72629-94-8	N/A	663.1 / 619.1	N/A		N/A	N/A	0.193	N/A	N/A
19	PFTrDA_2	72629-94-8	N/A	663.1 / 169.0	N/A		N/A	N/A	0.193	N/A	N/A
20	PFTeDA	376-06-7	N/A	713.1 / 669.1	N/A		N/A	N/A	0.163	N/A	N/A
21	PFTeDA_2	376-06-7	N/A	713.1 / 169.0	N/A		N/A	N/A	0.163	N/A	N/A
22	PFBS	375-73-5	2.00	299.1 / 80.1	23851		0.176	0.374	0.353	Pass	N/A

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
23	PFBS_2	375-73-5	2.00	299.1 / 99.1	8909		0.190	0.374	0.353	Pass	N/A
24	PFPeS	2706-91-4	N/A	349.1 / 80.1	N/A		N/A	N/A	0.294	N/A	N/A
25	PFPeS_2	2706-91-4	N/A	349.1 / 99.1	N/A		N/A	N/A	0.294	N/A	N/A
26	PFHxS	355-46-4	3.17	399.1 / 80.1	24876	M5	0.237	0.274	0.292	Pass	N/A
27	PFHxS_2	355-46-4	3.17	399.1 / 99.1	6823	M5	0.223	0.274	0.292	Pass	N/A
28	PFHpS	375-92-8	N/A	449.1 / 80.1	N/A		N/A	N/A	0.274	N/A	N/A
29	PFHpS_2	375-92-8	N/A	449.1 / 99.1	N/A		N/A	N/A	0.274	N/A	N/A
30	PFOS	1763-23-1	4.09	499.1 / 80.1	99352	M5	0.777	0.210	0.223	Pass	N/A
31	PFOS_2	1763-23-1	4.09	499.1 / 99.1	20883	M5	0.777	0.210	0.223	Pass	N/A
32	PFNS	68259-12-1	N/A	549.1 / 80.1	N/A		N/A	N/A	0.281	N/A	N/A
33	PFNS_2	68259-12-1	N/A	549.1 / 99.1	N/A		N/A	N/A	0.281	N/A	N/A
34	PFDS	335-77-3	N/A	599.1 / 80.1	N/A		N/A	N/A	0.267	N/A	N/A
35	PFDS_2	335-77-3	N/A	599.1 / 99.1	N/A		N/A	N/A	0.267	N/A	N/A
36	PFDoS	79780-39-5	N/A	699.2 / 80.1	N/A		N/A	N/A	0.225	N/A	N/A
37	PFDoS_2	79780-39-5	N/A	699.2 / 99.1	N/A		N/A	N/A	0.225	N/A	N/A

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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
38	4:2FTS	757124-72-4	N/A	327.1 / 307.1	N/A		N/A	N/A	0.637	N/A	N/A
39	4:2FTS_2	757124-72-4	N/A	327.1 / 81.1	N/A		N/A	N/A	0.637	N/A	N/A
40	6:2FTS	27619-97-2	N/A	427.2 / 407.2	N/A		N/A	N/A	0.571	N/A	N/A
41	6:2FTS_2	27619-97-2	N/A	427.2 / 81.1	N/A		N/A	N/A	0.571	N/A	N/A
42	8:2FTS	39108-34-4	N/A	527.2 / 507.2	N/A		N/A	N/A	0.758	N/A	N/A
43	8:2FTS_2	39108-34-4	N/A	527.2 / 81.1	N/A		N/A	N/A	0.758	N/A	N/A
44	PFOSA	754-91-6	N/A	498.1 / 78.1	N/A		N/A	N/A	0.023	N/A	N/A
45	PFOSA_2	754-91-6	N/A	498.1 / 478.0	N/A		N/A	N/A	0.023	N/A	N/A
46	NMeFOSA	31506-32-8	N/A	512.2 / 219.0	N/A		N/A	N/A	1.447	N/A	N/A
47	NMeFOSA_2	31506-32-8	N/A	512.2 / 169.0	N/A		N/A	N/A	1.447	N/A	N/A
48	NEtFOSA	4151-50-2	N/A	526.2 / 219.0	N/A		N/A	N/A	1.299	N/A	N/A
49	NEtFOSA_2	4151-50-2	N/A	526.2 / 169.0	N/A		N/A	N/A	1.299	N/A	N/A
50	NMeFOSAA	2355-31-9	N/A	570.2 / 419.1	N/A		N/A	N/A	0.605	N/A	N/A
51	NMeFOSAA_2	2355-31-9	N/A	570.2 / 483.0	N/A		N/A	N/A	0.605	N/A	N/A
52	NEtFOSAA	2991-50-6	N/A	584.2 / 419.1	N/A		N/A	N/A	0.518	N/A	N/A

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
53	NEtFOSAA_2	2991-50-6	N/A	584.2 / 526.2	N/A		N/A	N/A	0.518	N/A	N/A
54	NMeFOSE	24448-09-7	N/A	616.1 / 58.9	N/A		N/A	N/A	N/A	N/A	N/A
55	NEtFOSE	1691-99-2	N/A	630.0 / 58.9	N/A		N/A	N/A	N/A	N/A	N/A
56	HFPO-DA	13252-13-6	N/A	285.0 / 169.0	N/A		N/A	N/A	0.474	N/A	N/A
57	HFPO-DA_2	13252-13-6	N/A	285.0 / 184.9	N/A		N/A	N/A	0.474	N/A	N/A
58	ADONA	919005-14-4	N/A	376.9 / 251.0	N/A		N/A	N/A	0.740	N/A	N/A
59	ADONA_2	919005-14-4	N/A	376.9 / 84.8	N/A		N/A	N/A	0.740	N/A	N/A
60	9Cl-PF3ONS	756426-58-1	N/A	530.8 / 351.1	N/A		N/A	N/A	0.340	N/A	N/A
61	9Cl-PF3ONS_2	756426-58-1	N/A	532.8 / 353.0	N/A		N/A	N/A	0.340	N/A	N/A
62	11Cl-PF3OUdS	763051-92-9	N/A	630.9 / 451.0	N/A		N/A	N/A	0.328	N/A	N/A
63	11Cl-PF3OUdS_2	763051-92-9	N/A	632.9 / 452.9	N/A		N/A	N/A	0.328	N/A	N/A
64	3:3FTCA	356-02-5	N/A	241.1 / 177.1	N/A		N/A	N/A	0.996	N/A	N/A
65	3:3FTCA_2	356-02-5	N/A	241.1 / 117.0	N/A		N/A	N/A	0.996	N/A	N/A
66	5:3FTCA	914637-49-3	N/A	341.1 / 237.1	N/A		N/A	N/A	1.037	N/A	N/A
67	5:3FTCA_2	914637-49-3	N/A	341.1 / 217.0	N/A		N/A	N/A	1.037	N/A	N/A

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_38.wiff2_5
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
68	7:3FTCA	812-70-4	N/A	441.1 / 316.9	N/A		N/A	N/A	1.181	N/A	N/A
69	7:3FTCA_2	812-70-4	N/A	441.1 / 337.1	N/A		N/A	N/A	1.181	N/A	N/A
70	PFEESA	113507-82-7	N/A	315.1 / 135.0	N/A		N/A	N/A	0.078	N/A	N/A
71	PFEESA_2	113507-82-7	N/A	315.1 / 82.9	N/A		N/A	N/A	0.078	N/A	N/A
72	PFMPA	377-73-1	N/A	229.0 / 85.0	N/A		N/A	N/A	N/A	N/A	N/A
73	PFMBA	863090-89-5	N/A	279.0 / 85.0	N/A		N/A	N/A	N/A	N/A	N/A
74	NFDHA	151772-58-6	N/A	295.0 / 201.0	N/A		N/A	N/A	0.765	N/A	N/A
75	NFDHA_2	151772-58-6	N/A	295.0 / 84.9	N/A		N/A	N/A	0.765	N/A	N/A
76	TDCA	516-50-7	N/A	499.1 / 124.1	N/A		N/A	N/A	5.845	N/A	N/A
77	TDCA_2	516-50-7	N/A	499.1 / 79.9	N/A		N/A	N/A	5.845	N/A	N/A
78	13C2D4-4:2FTS	Surr	N/A	333.2 / 312.1	N/A		N/A	N/A	N/A	N/A	N/A
79	13C2-PFOA	Surr	N/A	415.0 / 370.0	N/A		N/A	N/A	N/A	N/A	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C4-PFBA	EIS	0.63	217.0 / 172.0	878056		7.442	NA	NA	NA	74.4

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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C5-PFPeA	EIS	1.22	268.0 / 223.0	386632		3.970	NA	NA	NA	79.4
	13C5-PFHxA	EIS	1.99	318.0 / 273.0	215310		1.785	NA	NA	NA	71.4
	13C4-PFHpA	EIS	2.56	367.0 / 322.0	258778		1.700	NA	NA	NA	68.0
	13C8-PFOA	EIS	3.05	420.8 / 376.0	298140		1.756	NA	NA	NA	70.2
	13C9-PFNA	EIS	3.49	472.0 / 427.0	138380		0.870	NA	NA	NA	69.6
	13C6-PFDA	EIS	3.93	519.0 / 474.0	185290		0.848	NA	NA	NA	67.9
	13C7-PFUnA	EIS	4.34	570.0 / 525.0	167497		0.722	NA	NA	NA	57.7

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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C2-PFDoA	EIS	4.75	615.1 / 570.0	152772		0.800	NA	NA	NA	64.0
	13C2-PFTeDA	EIS	5.54	715.1 / 670.1	154893		0.691	NA	NA	NA	55.2
	13C3-PFBS	EIS	2.00	302.1 / 80.1	335875		1.902	NA	NA	NA	81.7
	13C3-PFHxS	EIS	3.16	402.1 / 80.1	256447		1.713	NA	NA	NA	72.3
	13C8-PFOS	EIS	4.09	507.1 / 80.1	299859		1.478	NA	NA	NA	61.6
	13C2-4:2FTS	EIS	1.77	329.1 / 81.1	69375		4.166	NA	NA	NA	88.8
	13C2-6:2FTS	EIS	2.86	429.2 / 81.1	55641		3.505	NA	NA	NA	73.6
	13C2-8:2FTS	EIS	3.73	529.2 / 81.1	61611		2.753	NA	NA	NA	57.4

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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C8-PFOSA	EIS	5.18	506.1 / 78.1	437437		1.501	NA	NA	NA	60.0
	d3-NMeFOSA	EIS	5.92	515.2 / 219.0	56397		1.235	NA	NA	NA	49.4
	d5-NEtFOSA	EIS	6.21	531.2 / 219.0	61622		1.363	NA	NA	NA	54.5
	d3-NMeFOSAA	EIS	4.03	573.2 / 419.1	99738		2.732	NA	NA	NA	54.6
	d5-NEtFOSAA	EIS	4.23	589.3 / 419.1	90208		2.948	NA	NA	NA	59.0
	d7-NMeFOSE	EIS	5.76	623.2 / 58.9	549319		16.760	NA	NA	NA	67.0
	d9-NEtFOSE	EIS	6.06	639.2 / 58.9	677590		16.713	NA	NA	NA	66.9

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Generated: 12/20/2024 10:43:43 AM

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C3-HFPO-DA	EIS	2.20	287.0 / 169.0	855103		7.726	NA	NA	NA	77.3
	13C3-PFBA	NIS	0.63	216.0 / 172.0	517927		5.248	NA	NA	NA	105.0
	13C2-PFHxA	NIS	1.99	315.0 / 270.0	322487		2.358	NA	NA	NA	94.3
	13C4-PFOA	NIS	3.05	417.0 / 372.0	329344		2.256	NA	NA	NA	90.2
	13C5-PFNA	NIS	3.49	468.0 / 423.0	200143		1.078	NA	NA	NA	86.3
	13C2-PFDA	NIS	3.93	515.1 / 470.1	262273		1.152	NA	NA	NA	92.1
	18O2-PFHxS	NIS	3.16	403.1 / 84.1	308343		2.016	NA	NA	NA	85.1
	13C4-PFOS	NIS	4.09	503.1 / 80.1	372810		2.192	NA	NA	NA	91.3

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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec

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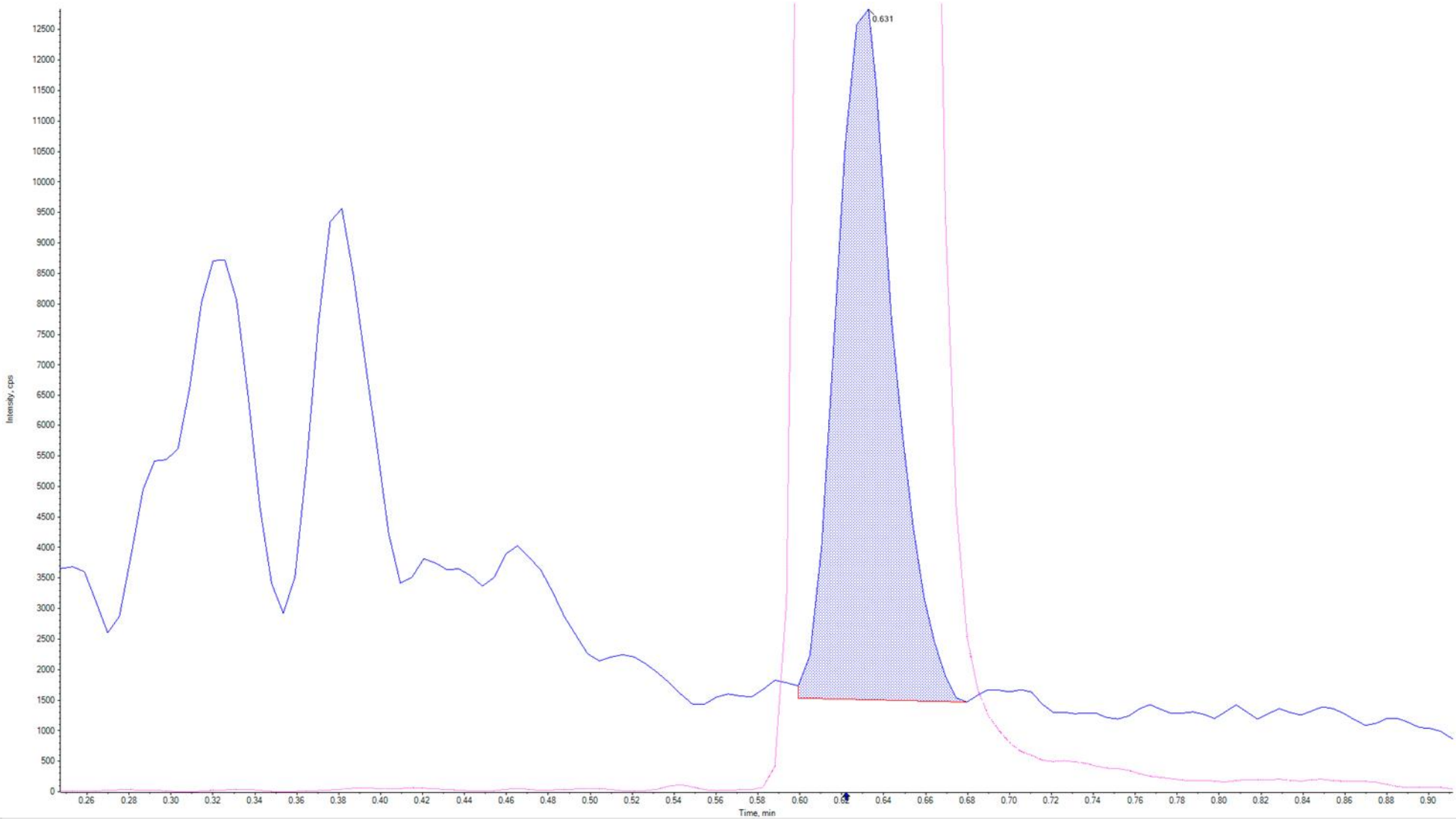
PFBA
Sample: L2470744-03 S/N:70.9 Points Across peak:17



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Alpha Analytical LLC
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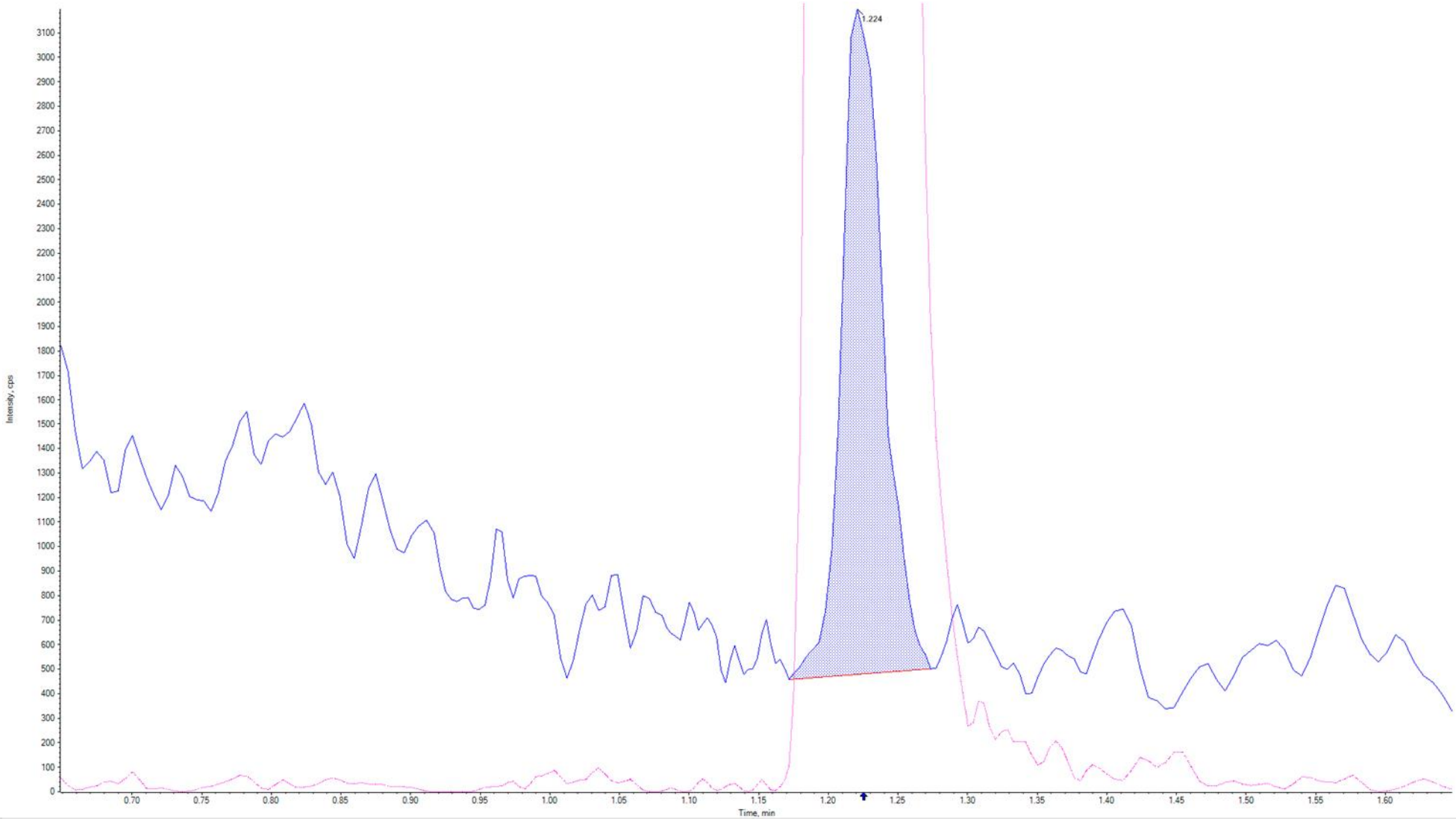
PFPeA
Sample: L2470744-03 S/N:69.5 Points Across peak:25



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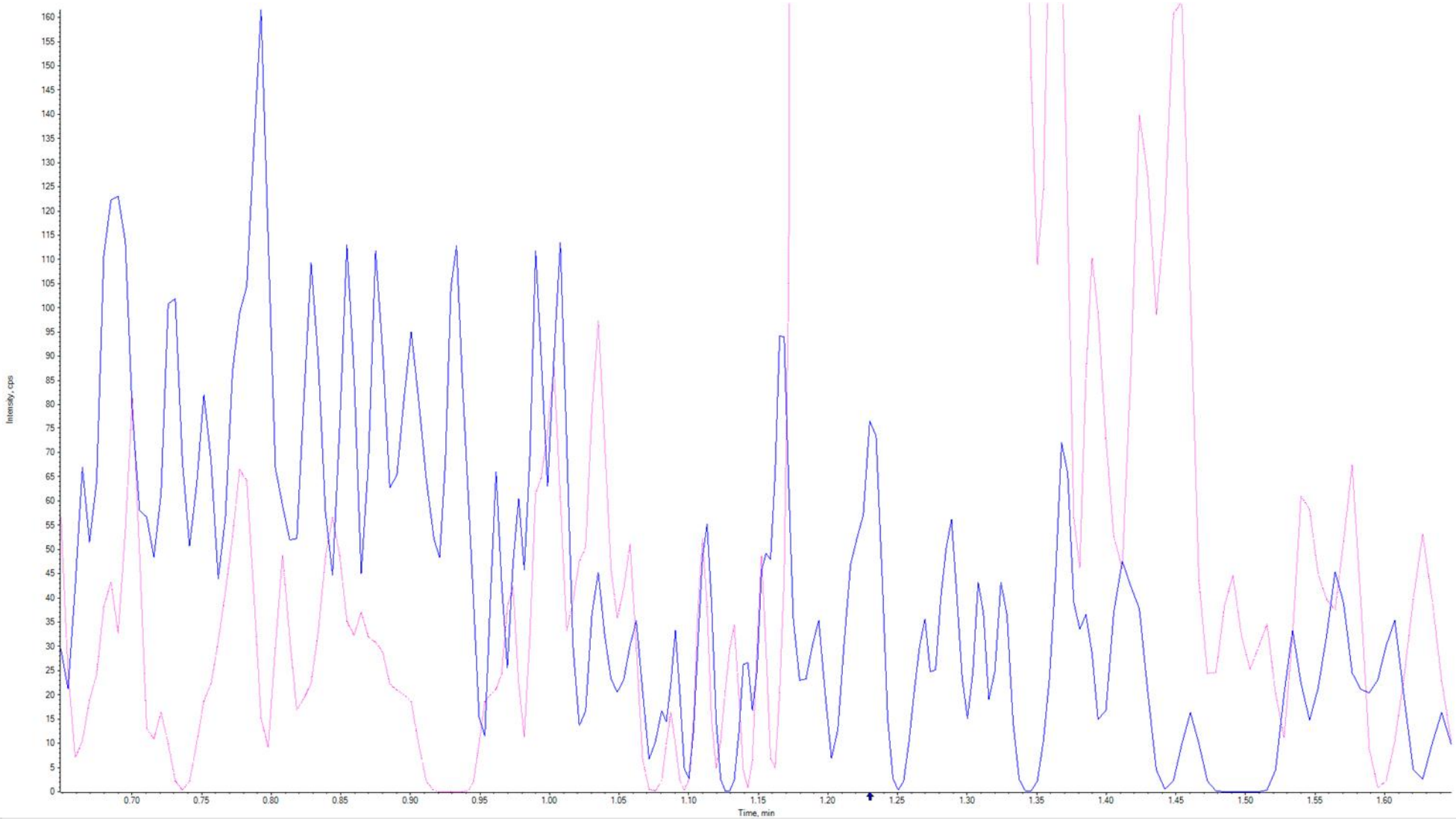
PFPeA_2
Sample: L2470744-03 S/N:N/A Points Across peak:N/A



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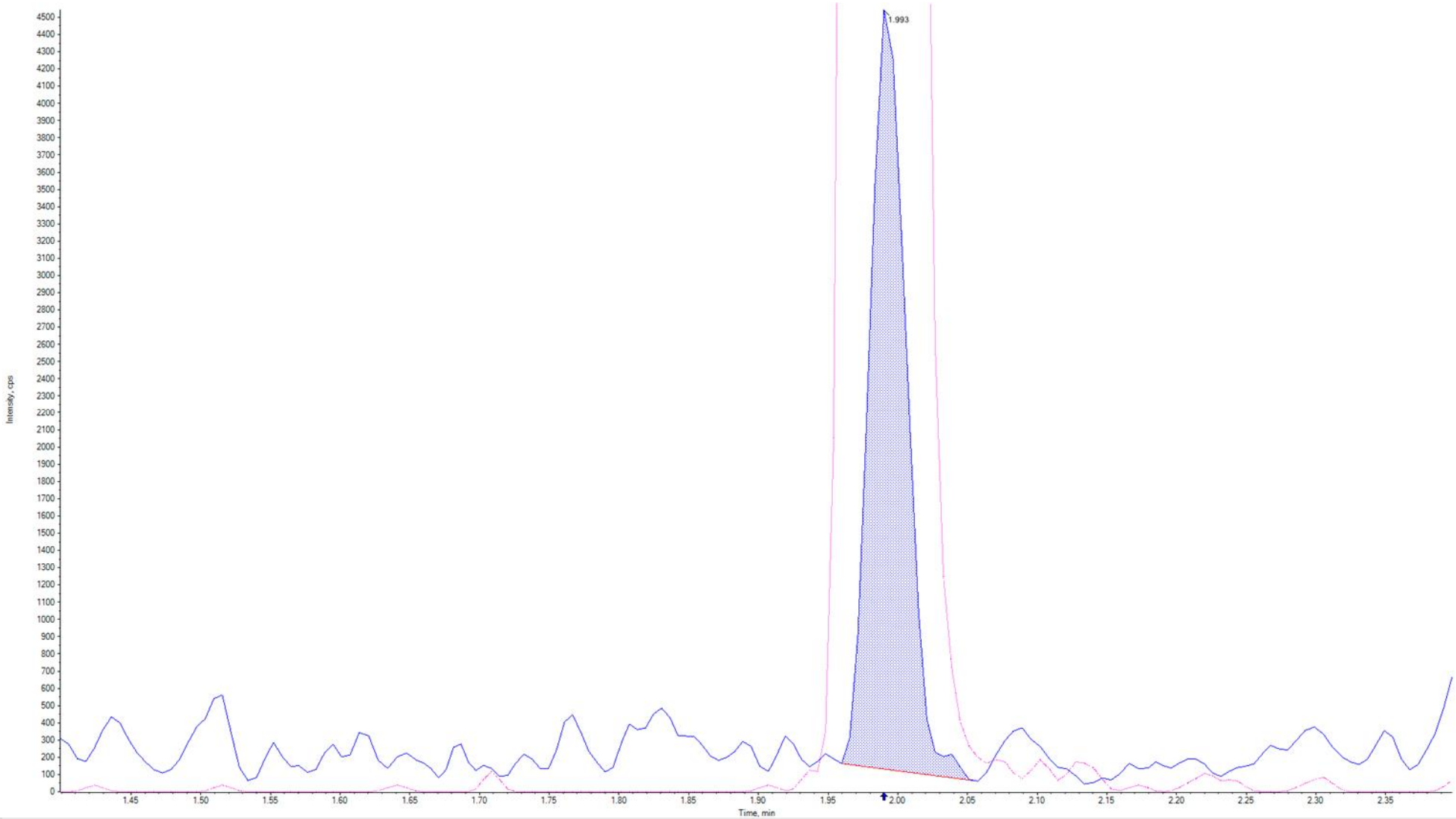
PFHxA
Sample: L2470744-03 S/N:110.6 Points Across peak:17



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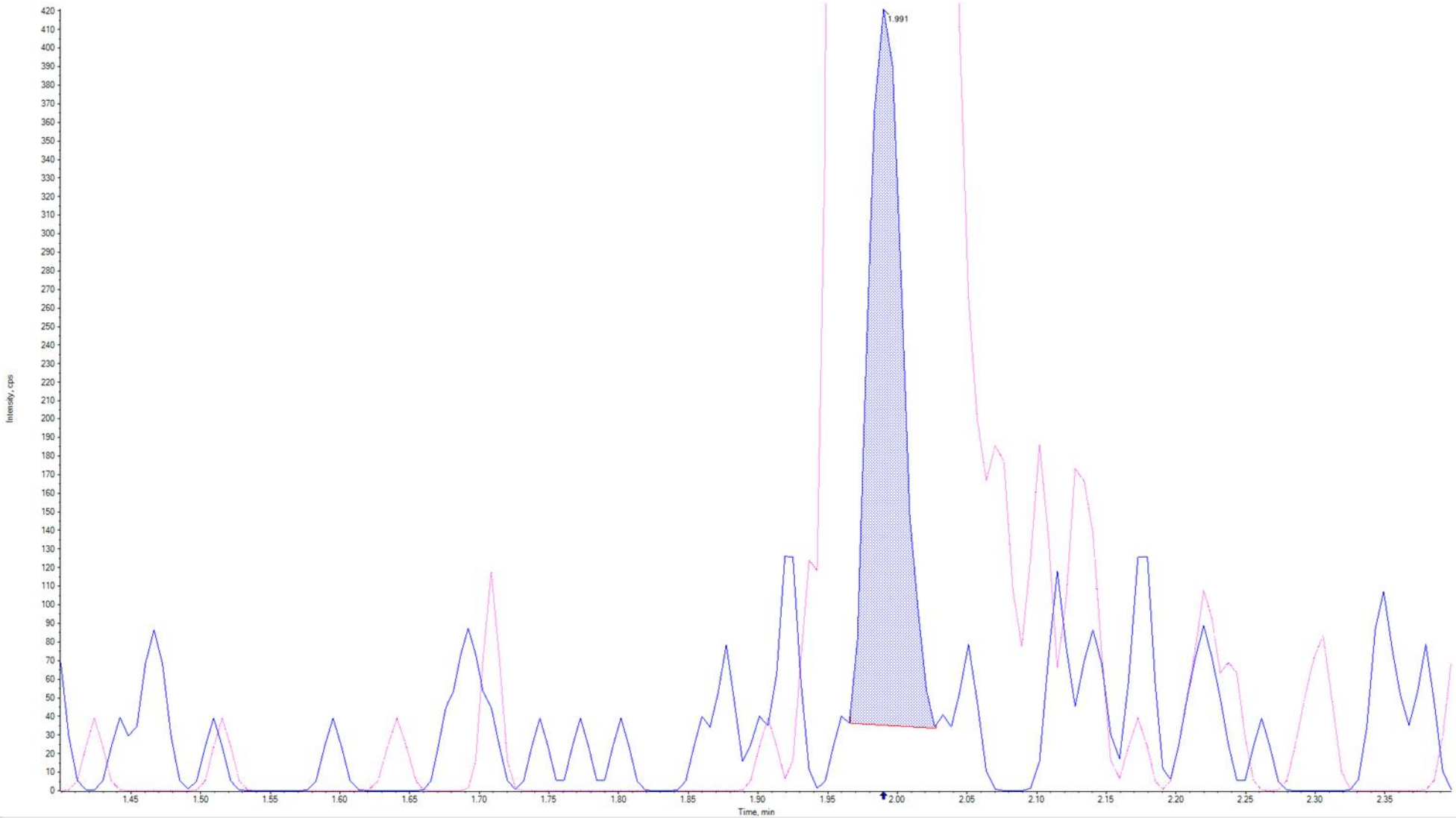
PFHxA_2
Sample: L2470744-03 S/N:9.7 Points Across peak:12



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Alpha Analytical LLC
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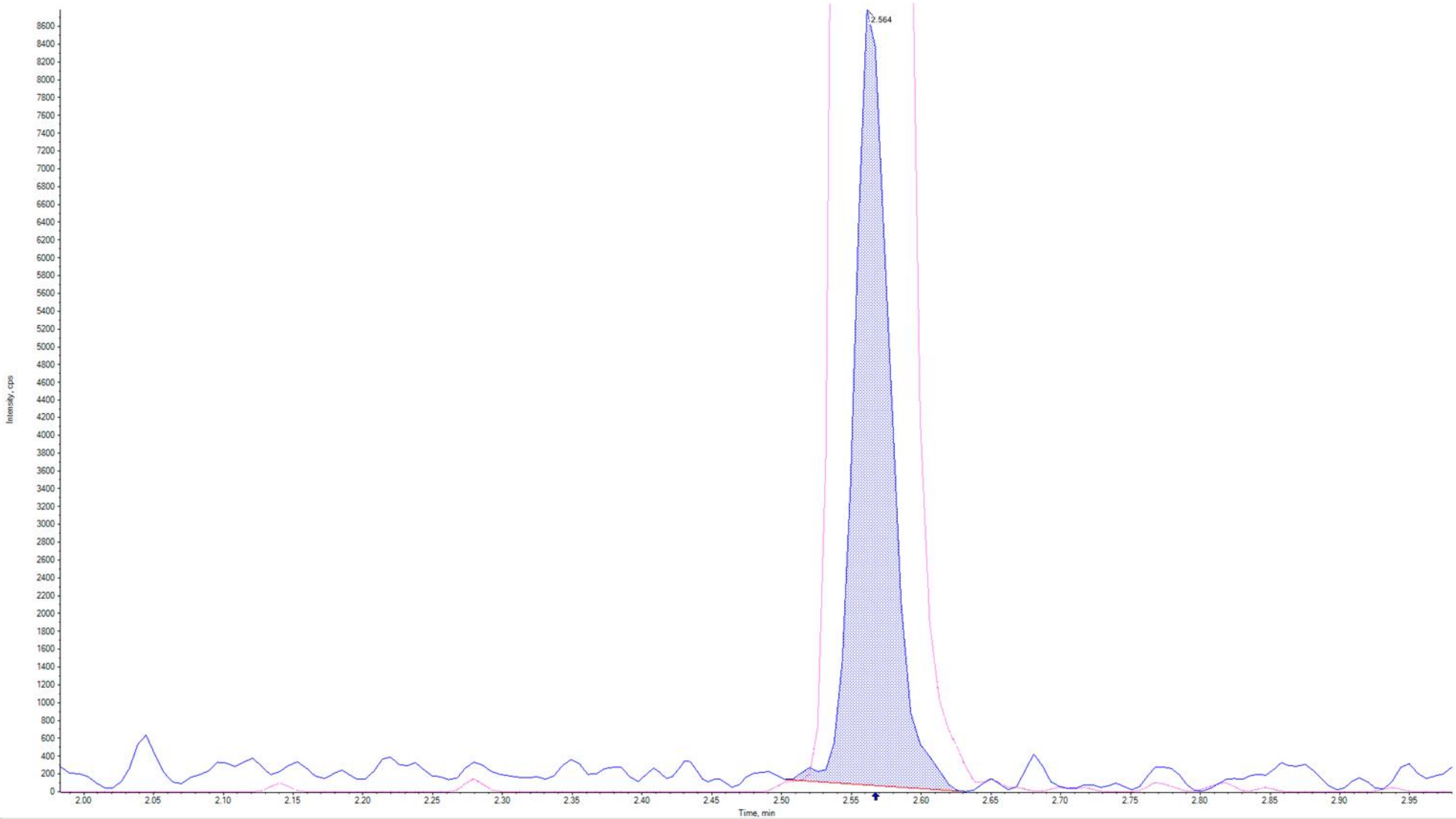
PFHpA
Sample: L2470744-03 S/N:174.6 Points Across peak:22



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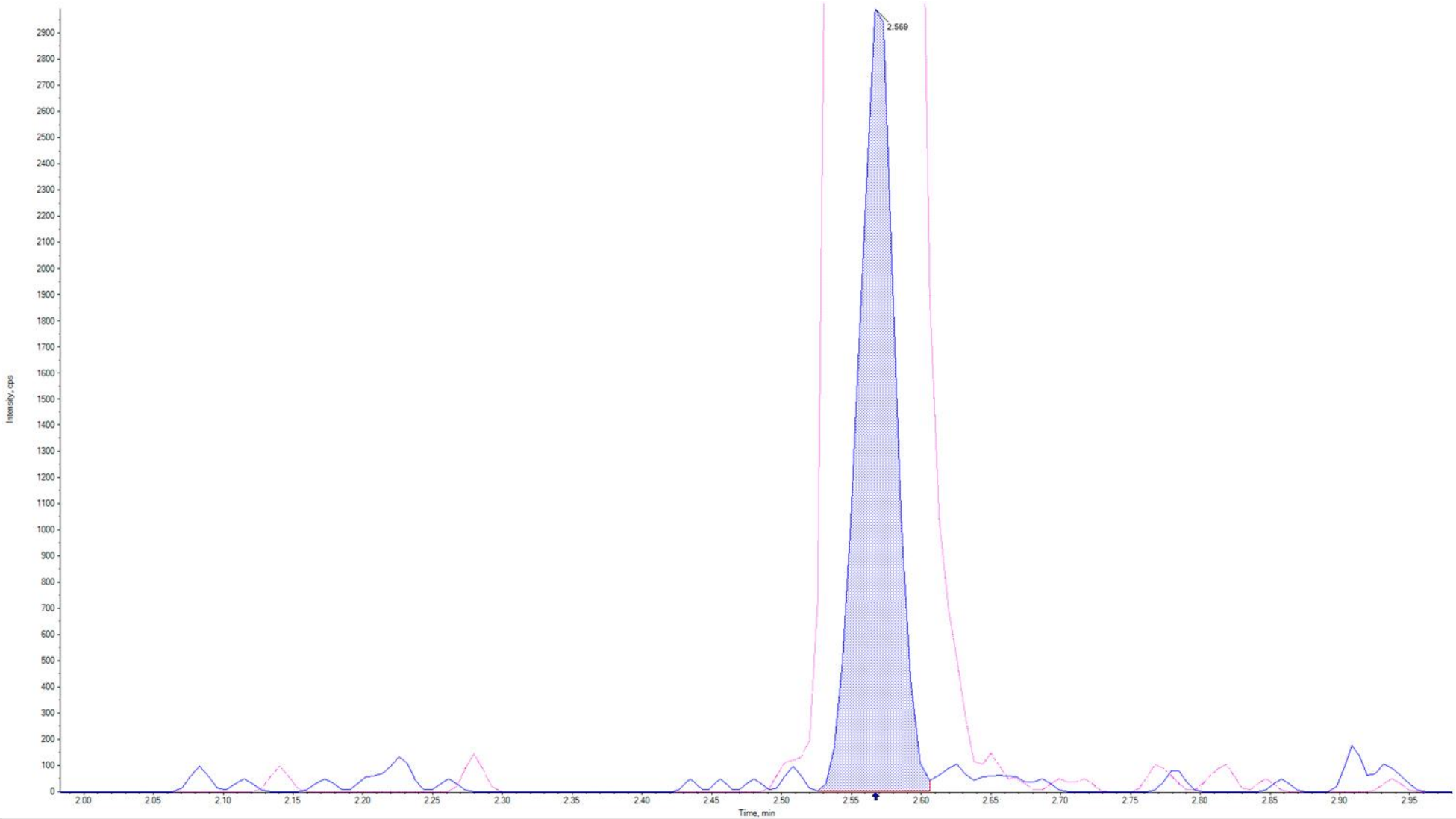
PFHpA_2
Sample: L2470744-03 S/N:59.9 Points Across peak:14



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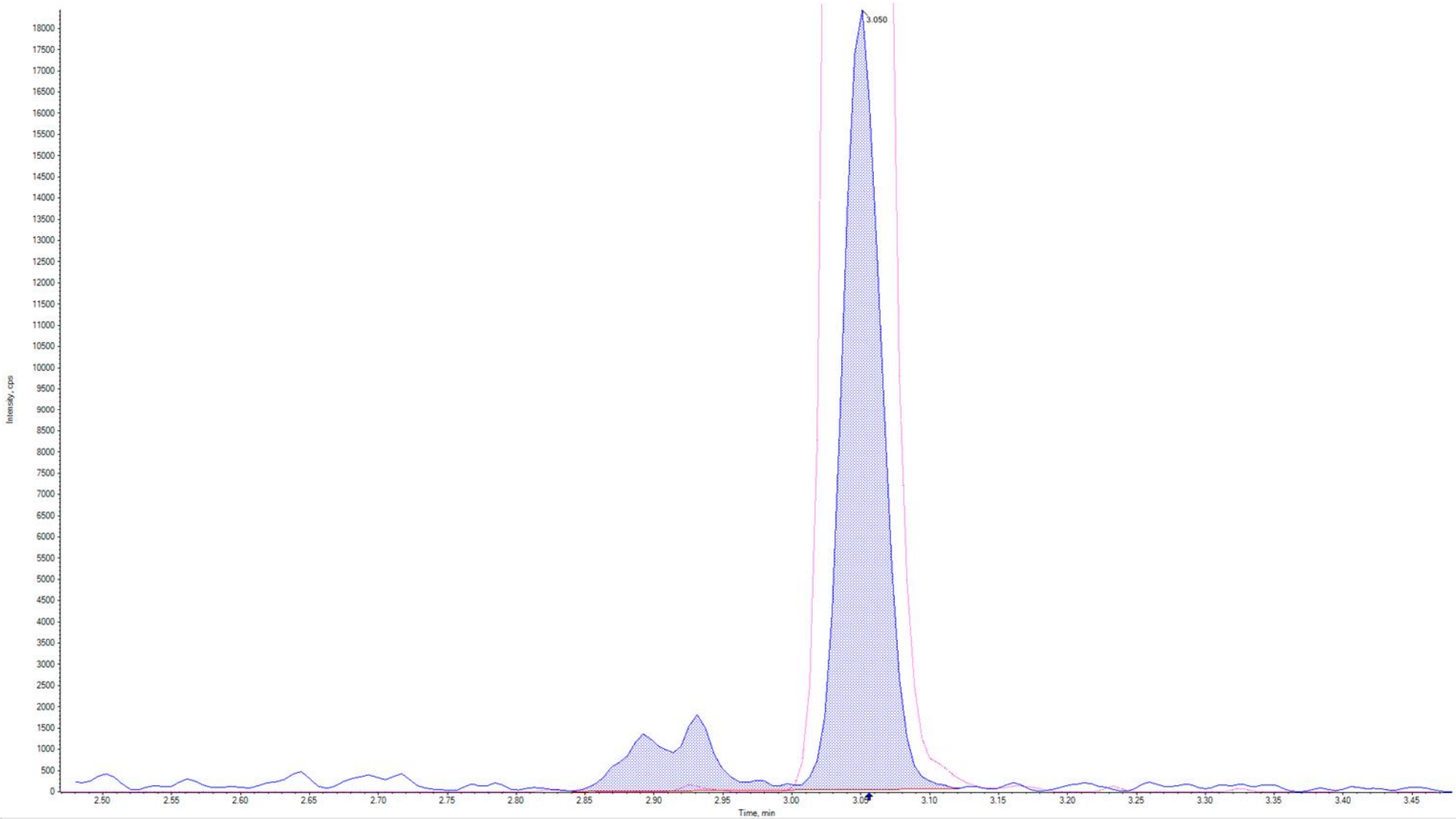
PFOA
Sample: L2470744-03 S/N:240.7 Points Across peak:52



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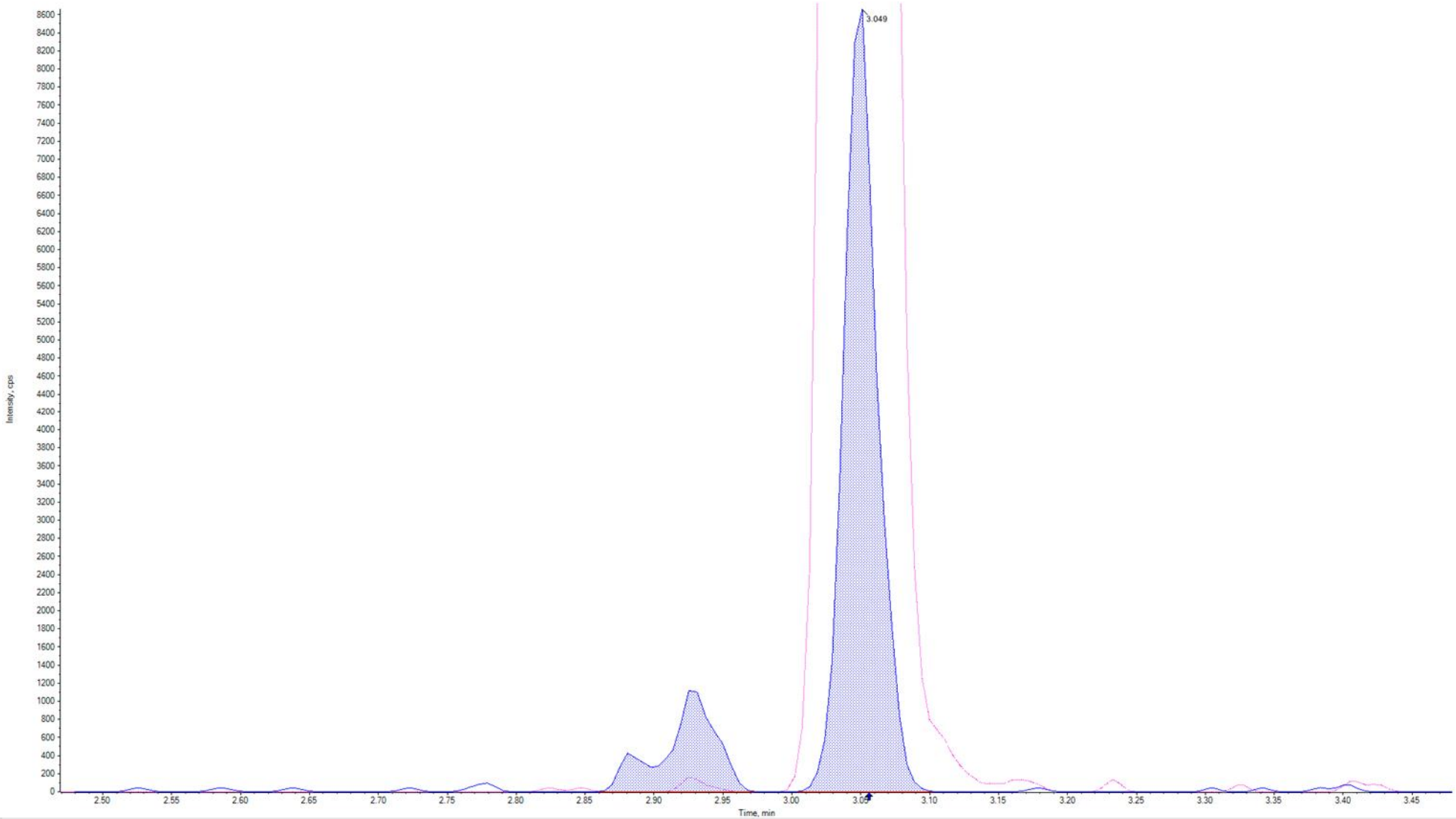
PFOA_2
Sample: L2470744-03 S/N:195.4 Points Across peak:47



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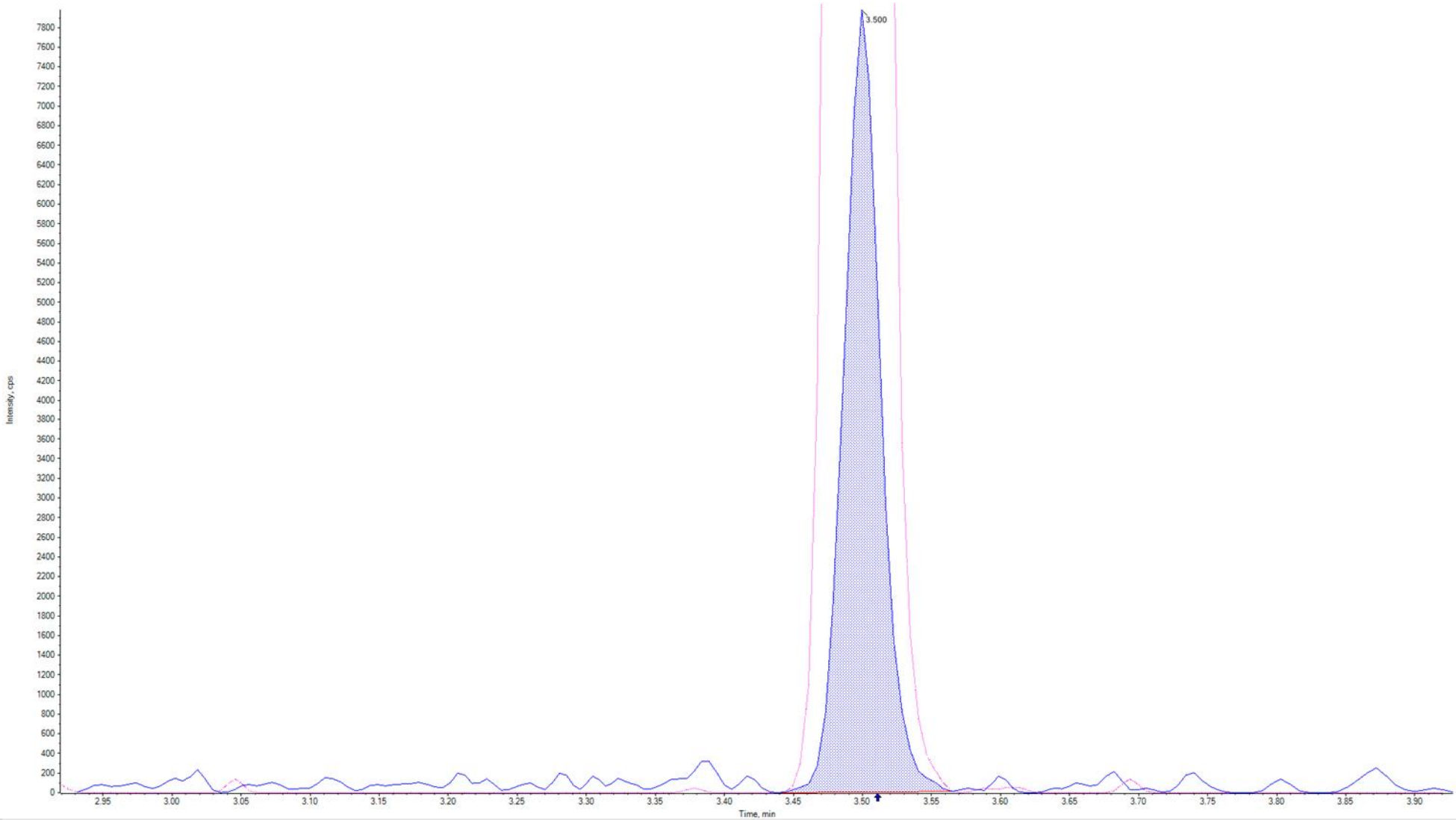
PFNA
Sample: L2470744-03 S/N:170.6 Points Across peak:23



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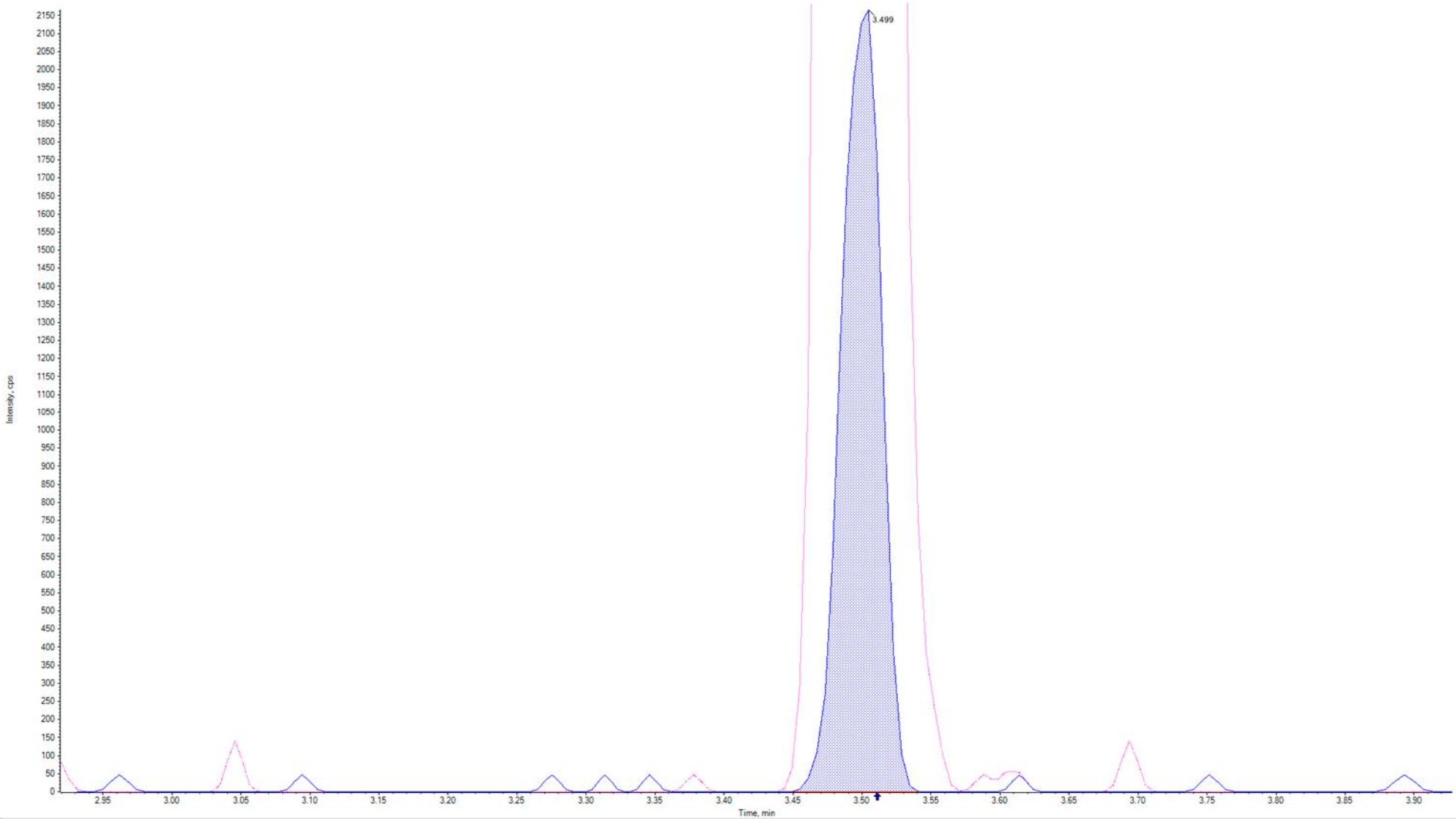
PFNA_2
Sample: L2470744-03 S/N:48.8 Points Across peak:27



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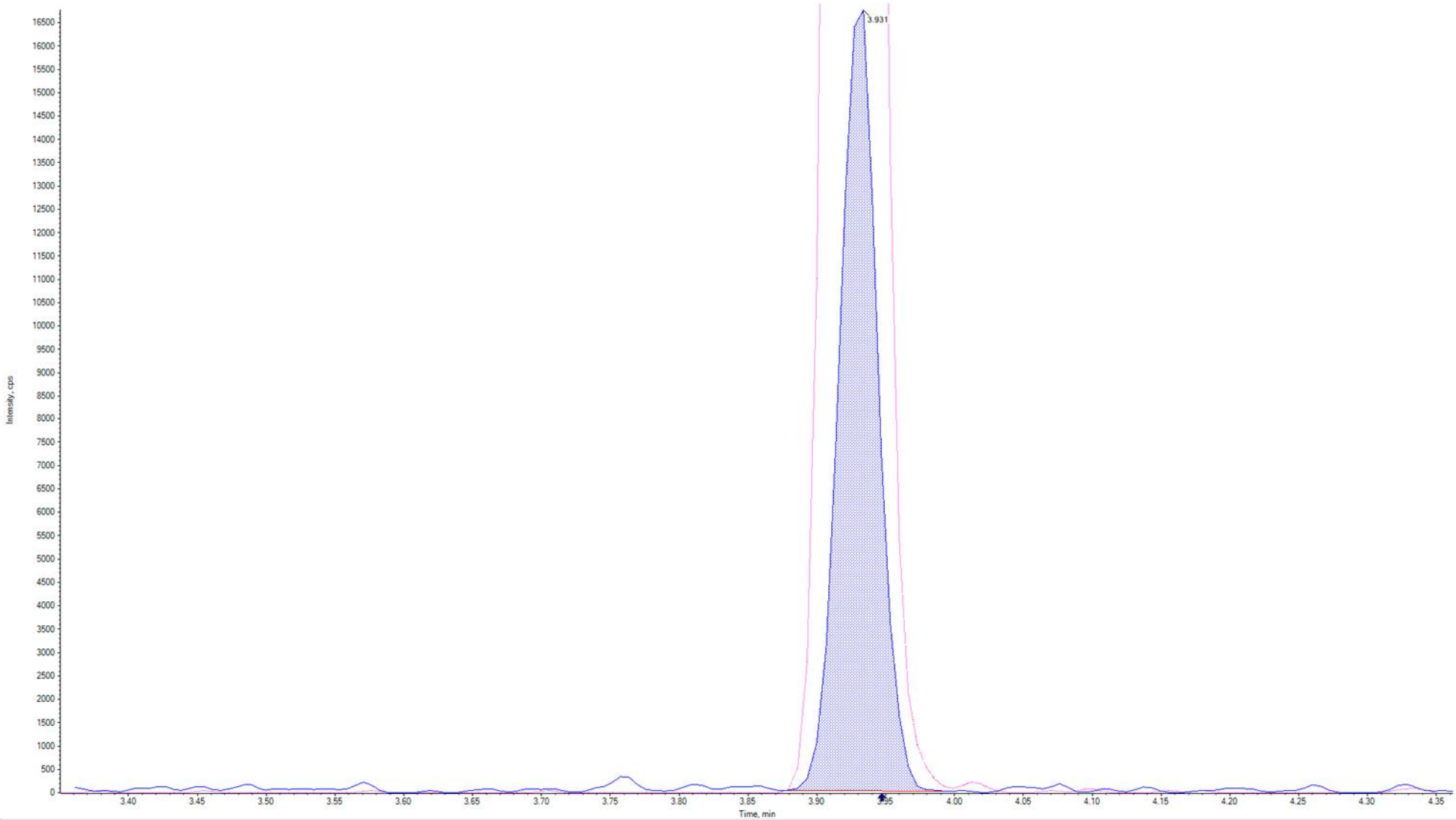
PFDA
Sample: L2470744-03 S/N:335.5 Points Across peak:19



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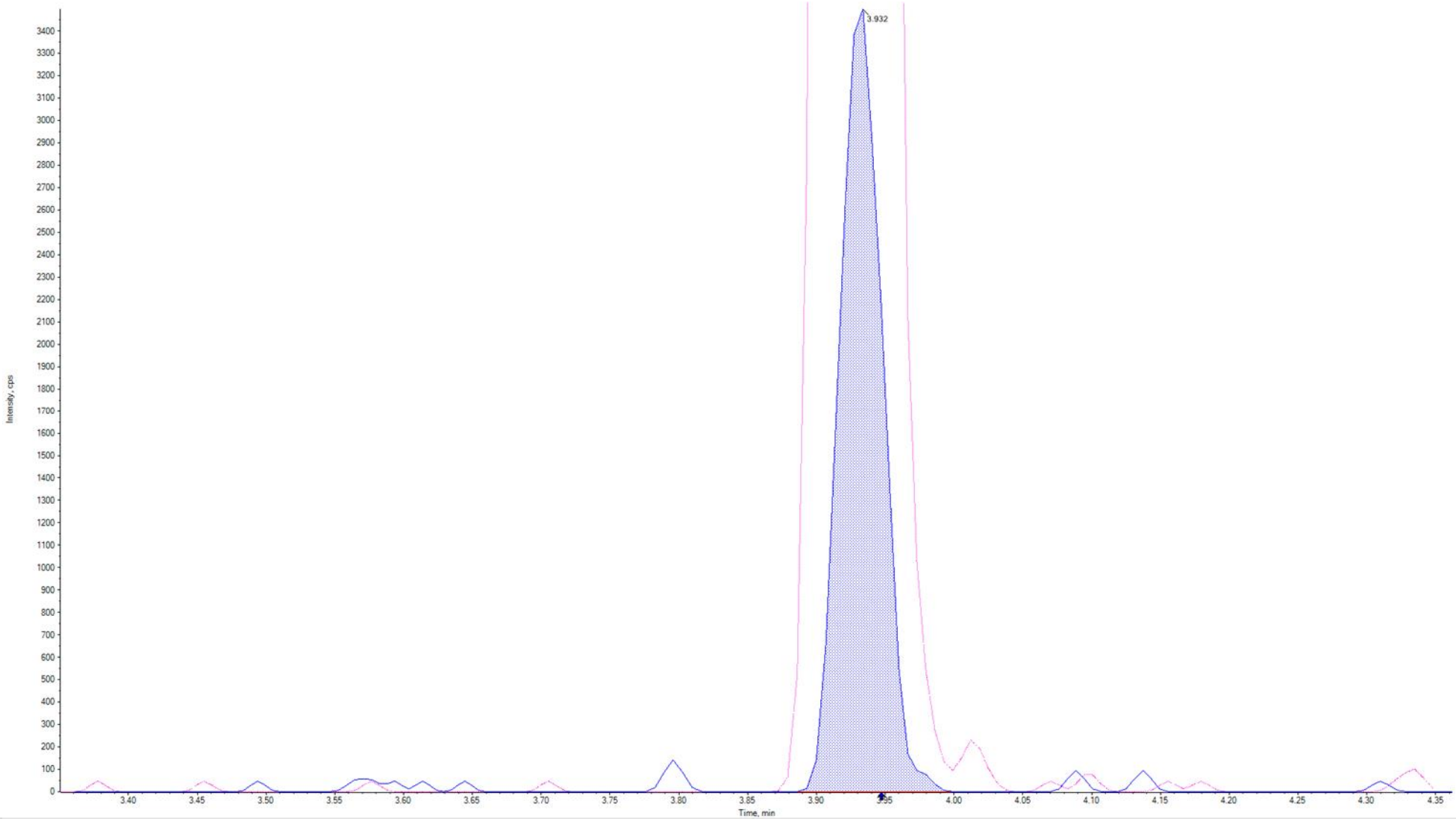
PFDA_2
Sample: L2470744-03 S/N:70.1 Points Across peak:28



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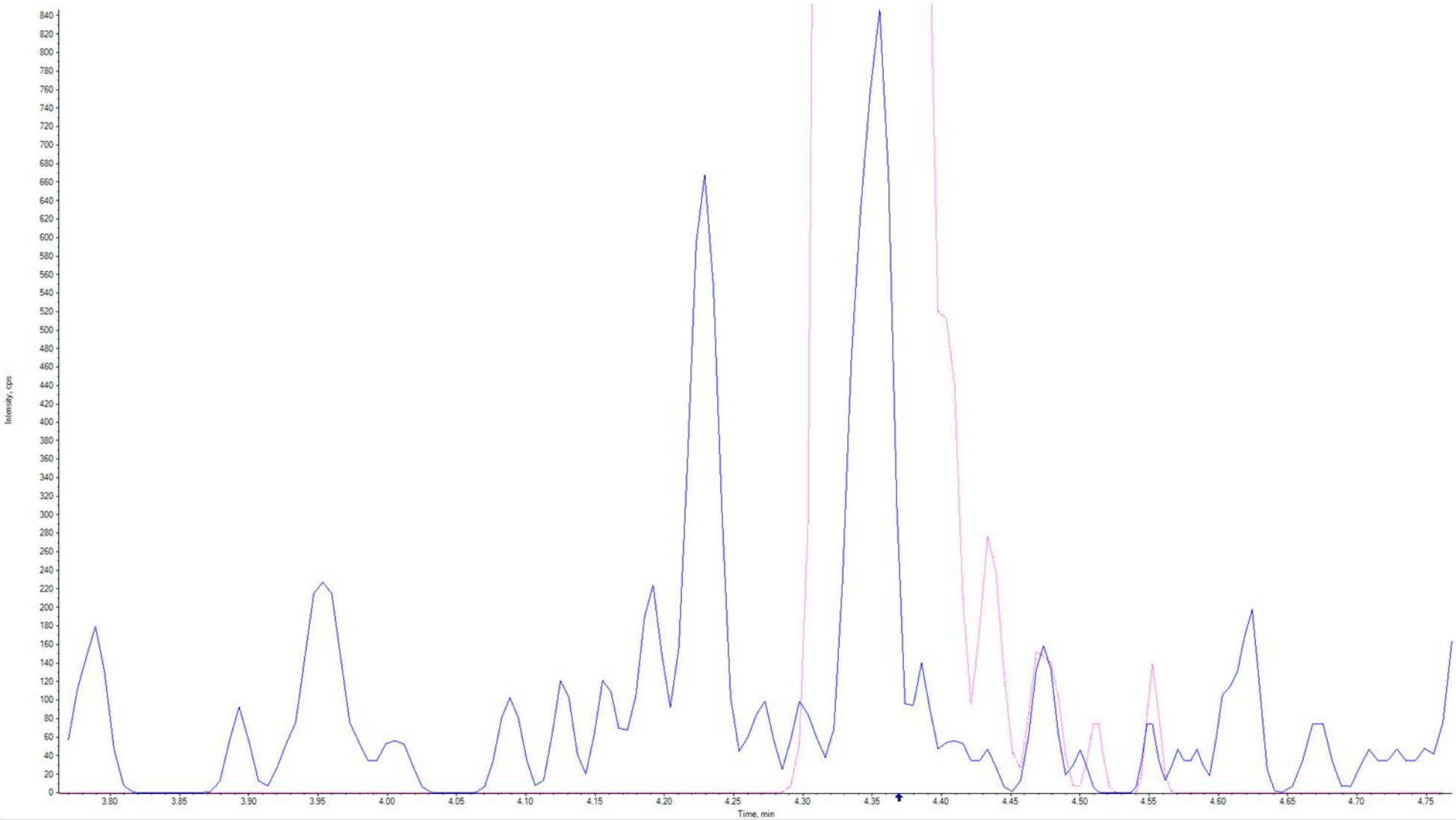
PFUnA
Sample: L2470744-03 S/N:N/A Points Across peak:N/A



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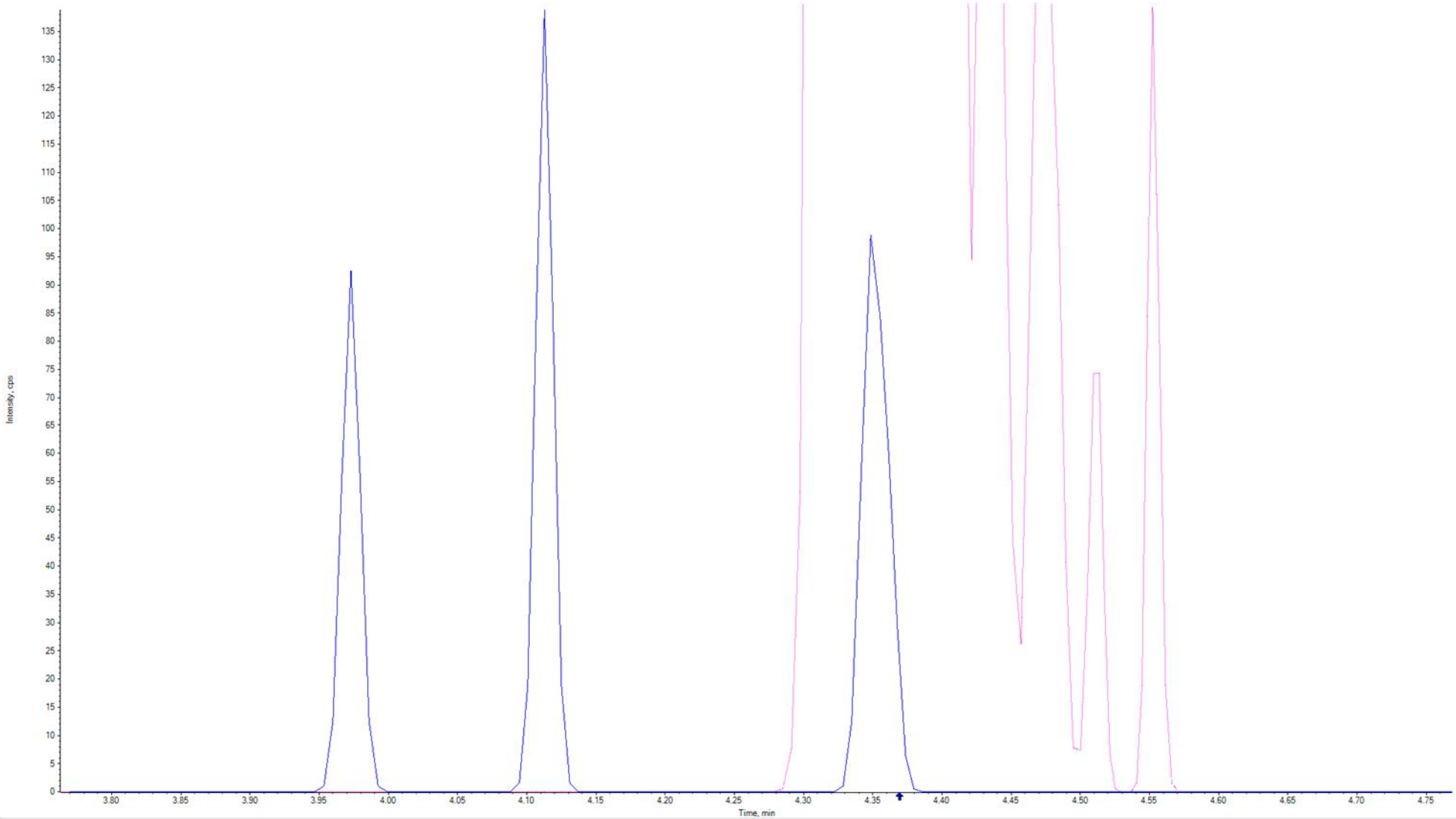
PFUnA_2
Sample: L2470744-03 S/N:N/A Points Across peak:N/A



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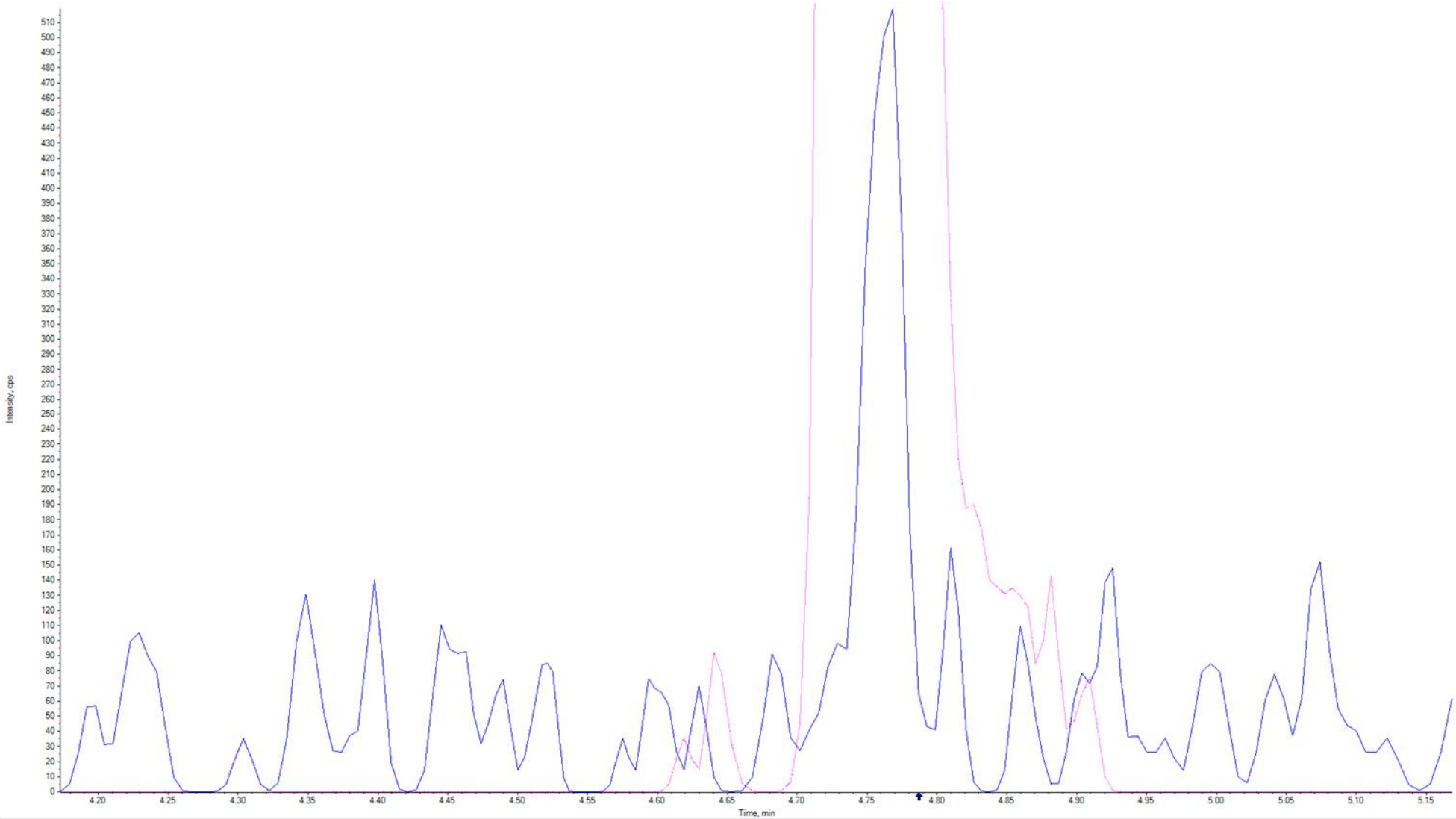
PFDoA
Sample: L2470744-03 S/N:N/A Points Across peak:N/A



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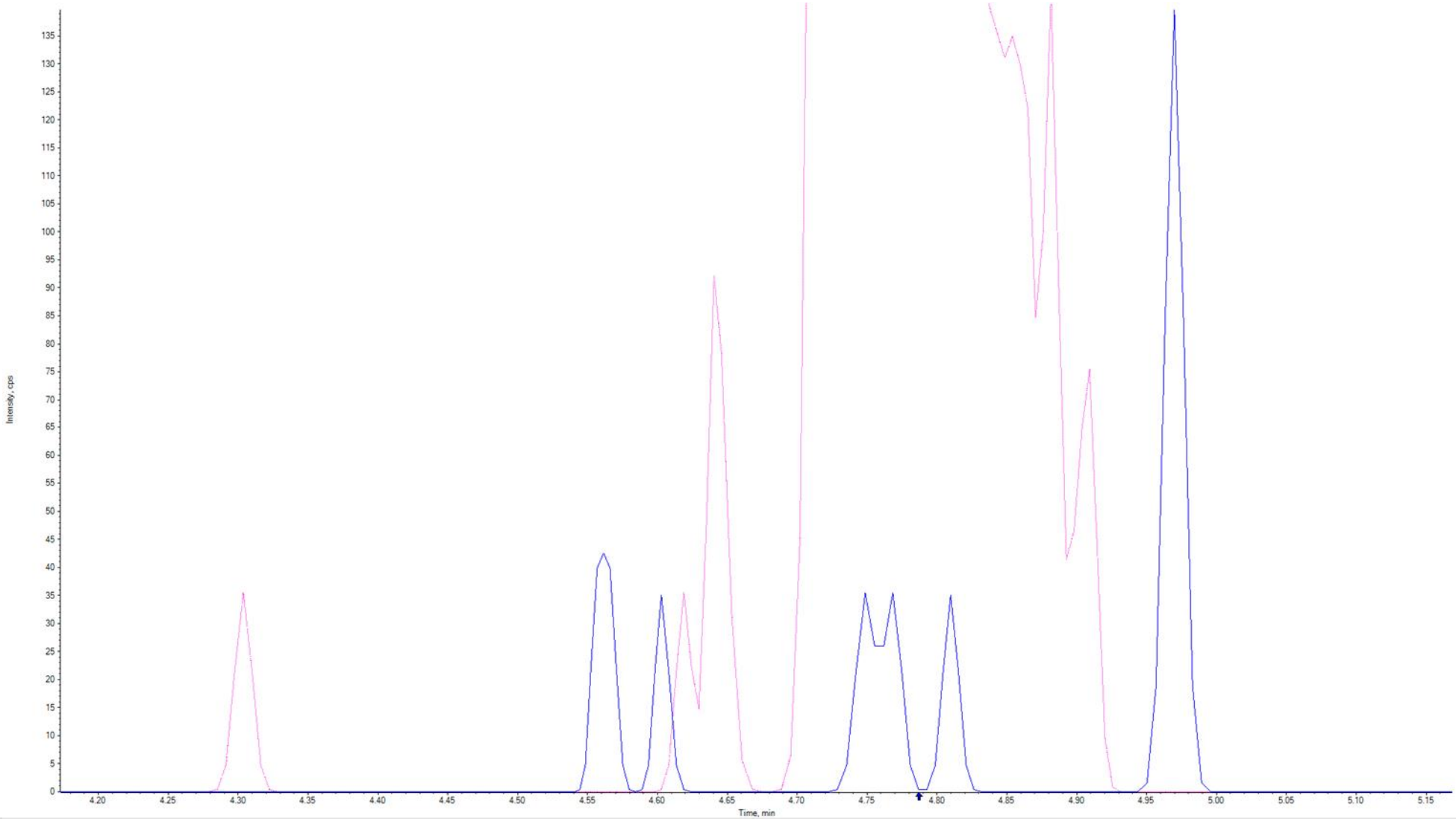
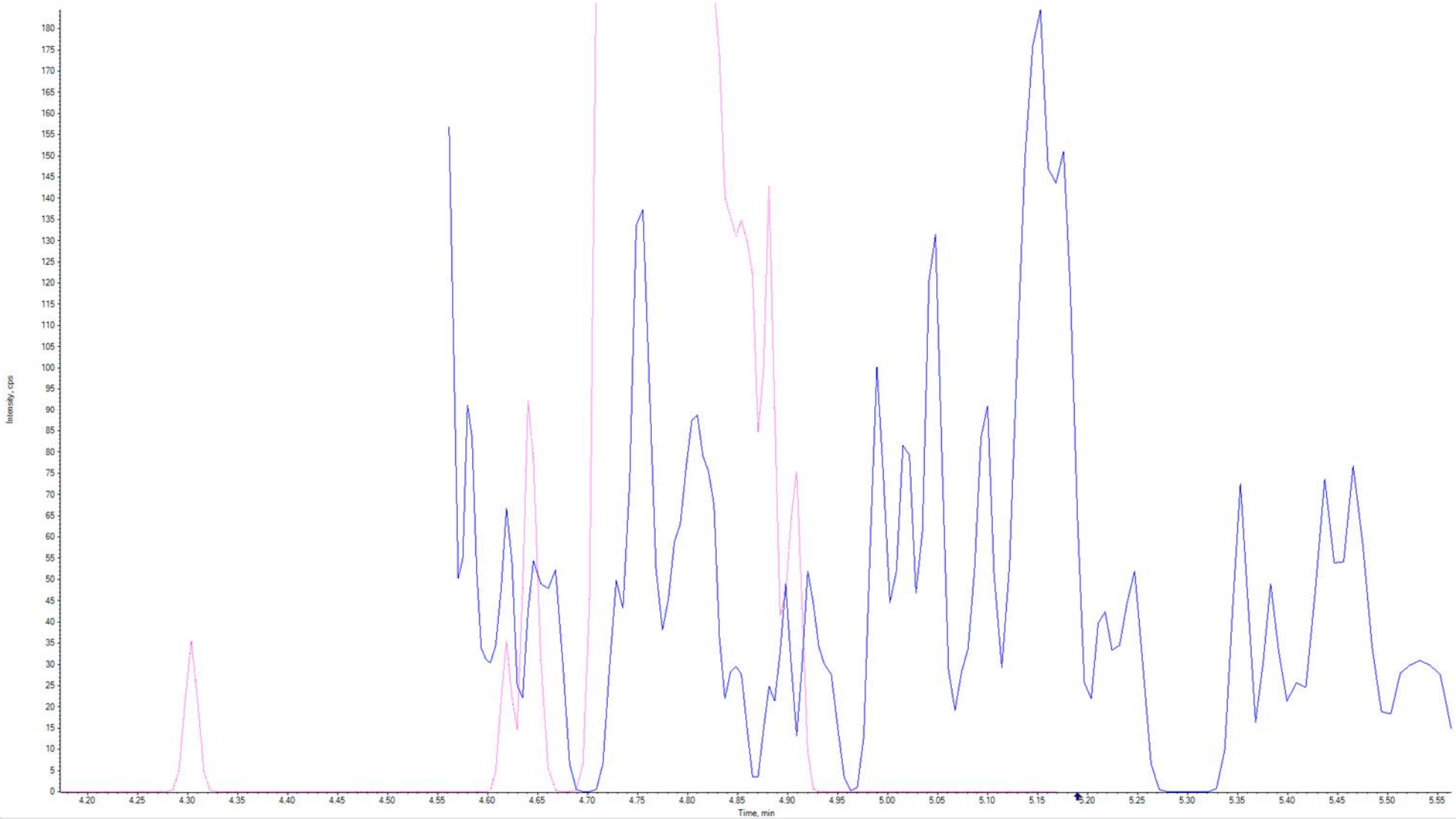
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFDoA_2
Sample: L2470744-03 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_38.wiff2_5
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFTrDA
Sample: L2470744-03 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 12/20/2024 12:29:45 PM
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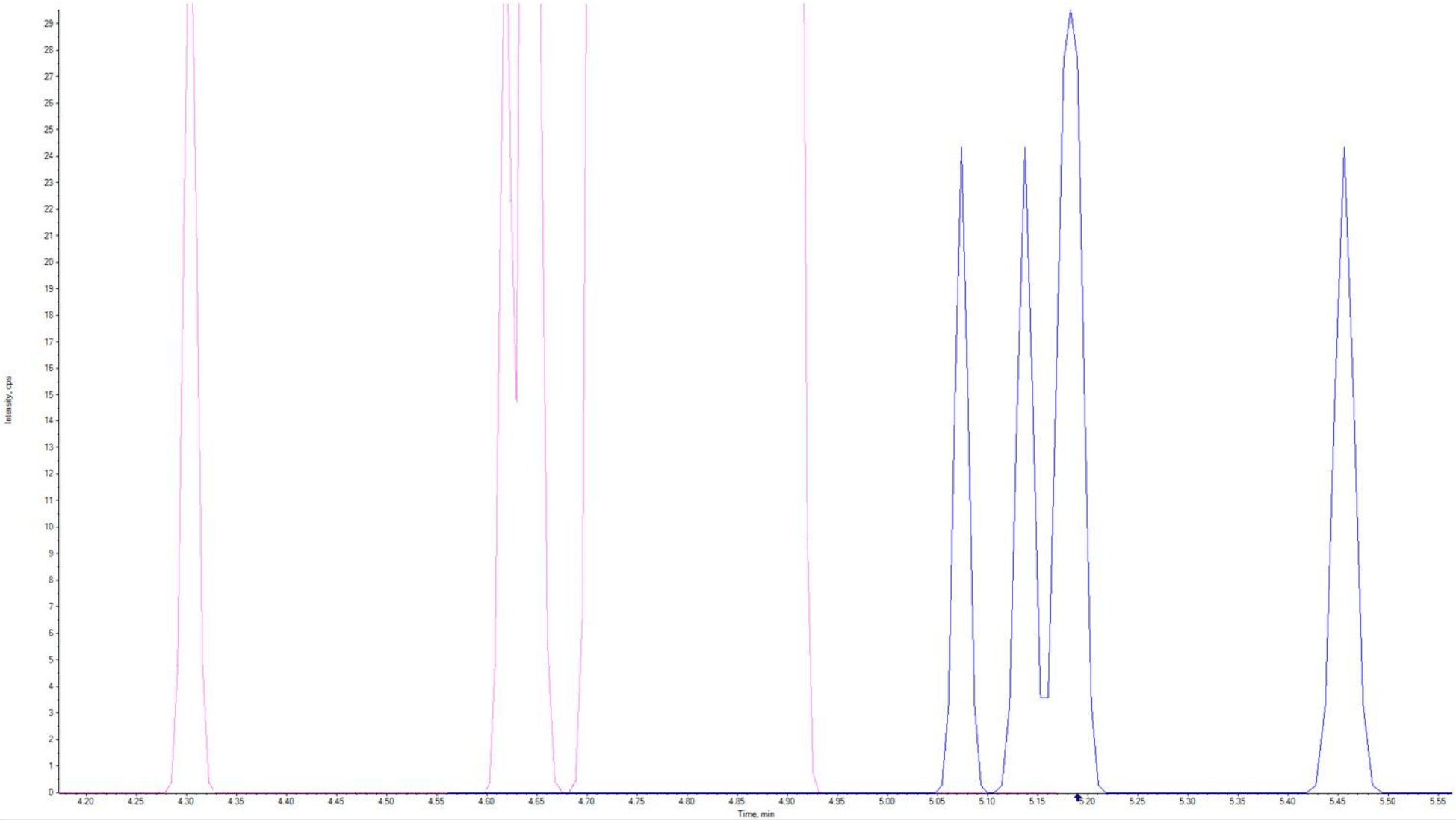
PFTrDA_2
Sample: L2470744-03 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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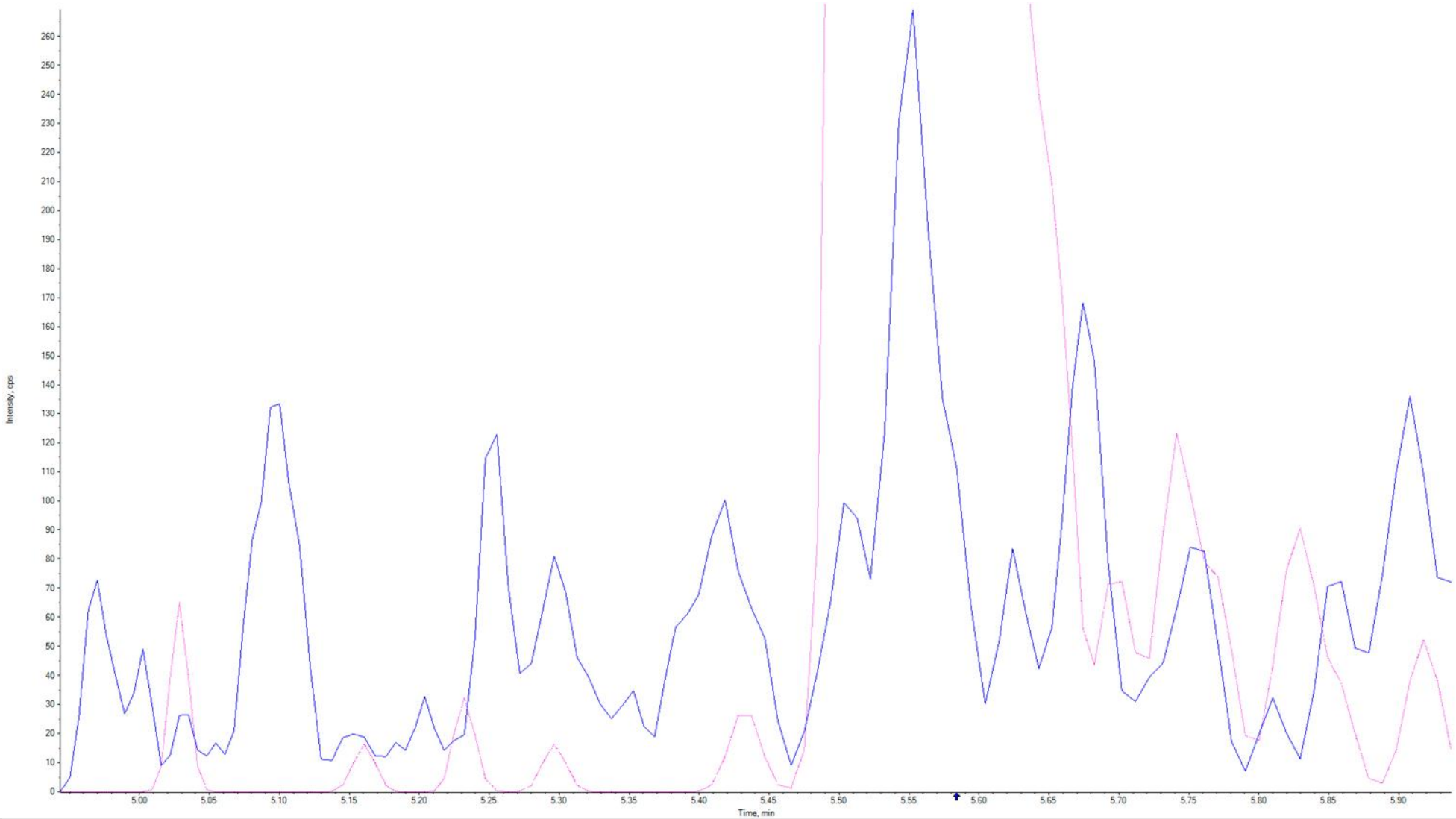
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFTeDA
Sample: L2470744-03 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 12/20/2024 12:29:45 PM
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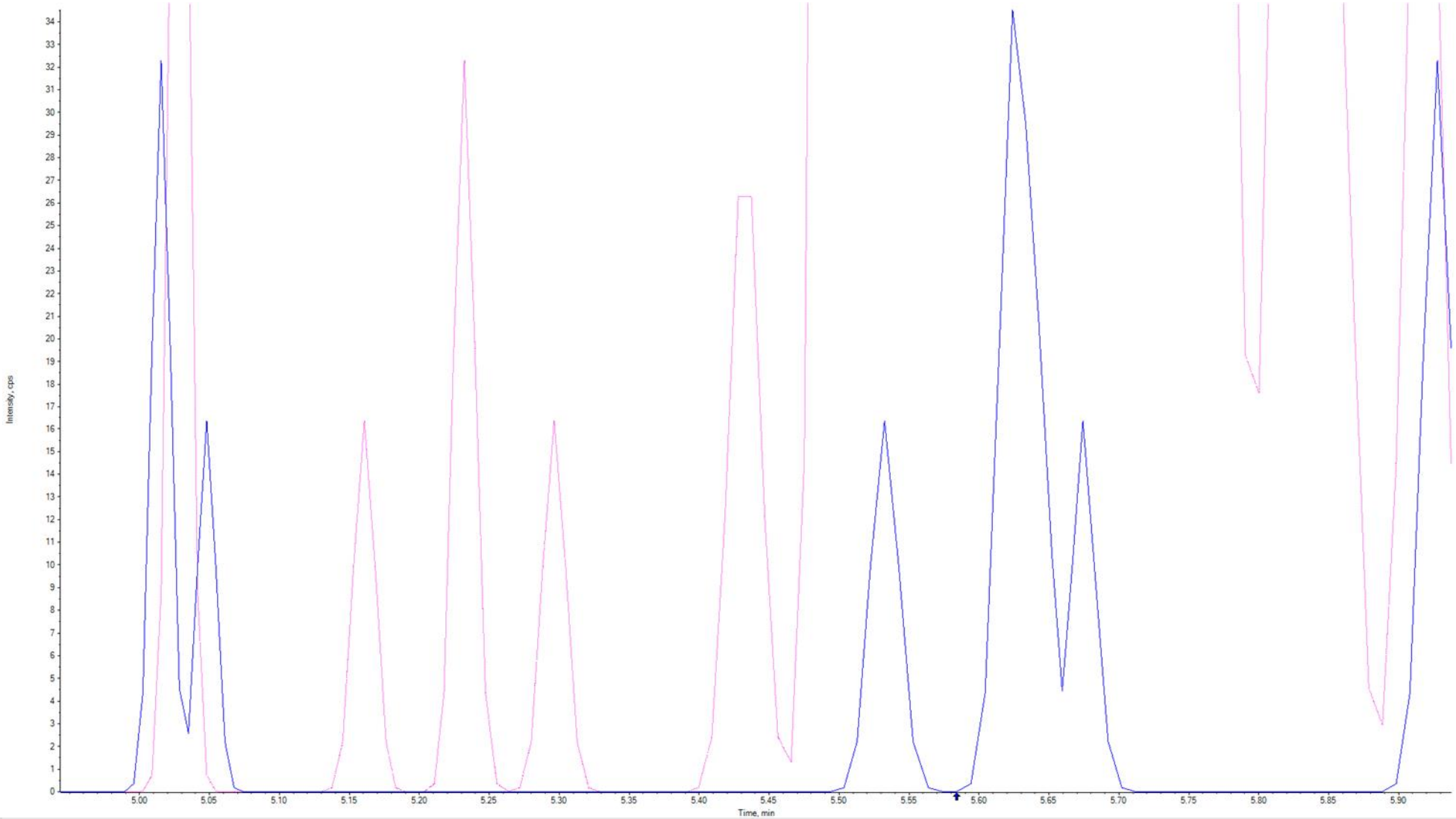
PFTeDA_2
Sample: L2470744-03 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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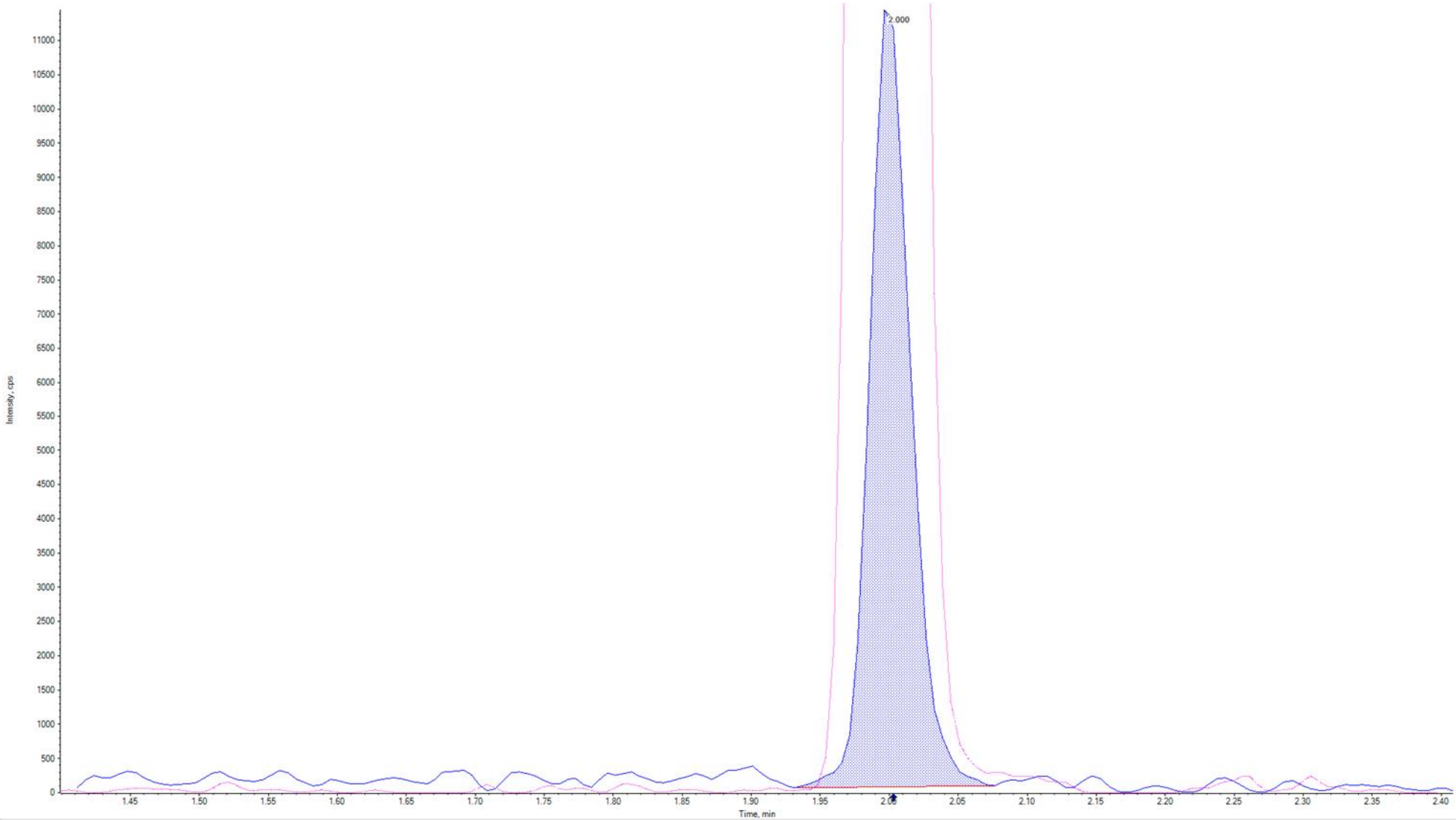
Generated: 12/20/2024 10:43:43 AM

PFBS
Sample: L2470744-03 S/N:284.8 Points Across peak:25



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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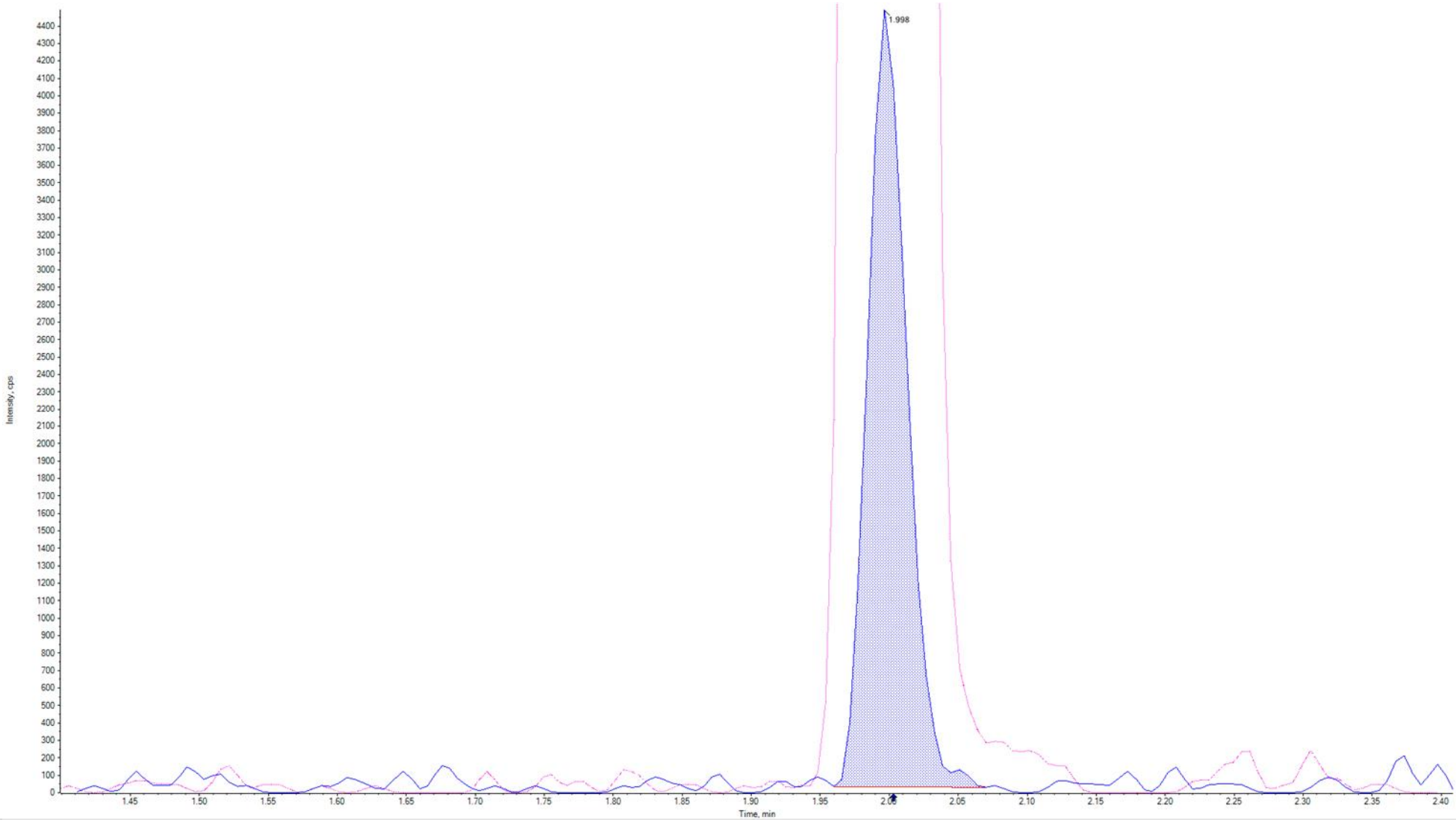
PFBS_2
Sample: L2470744-03 S/N:111.7 Points Across peak:19



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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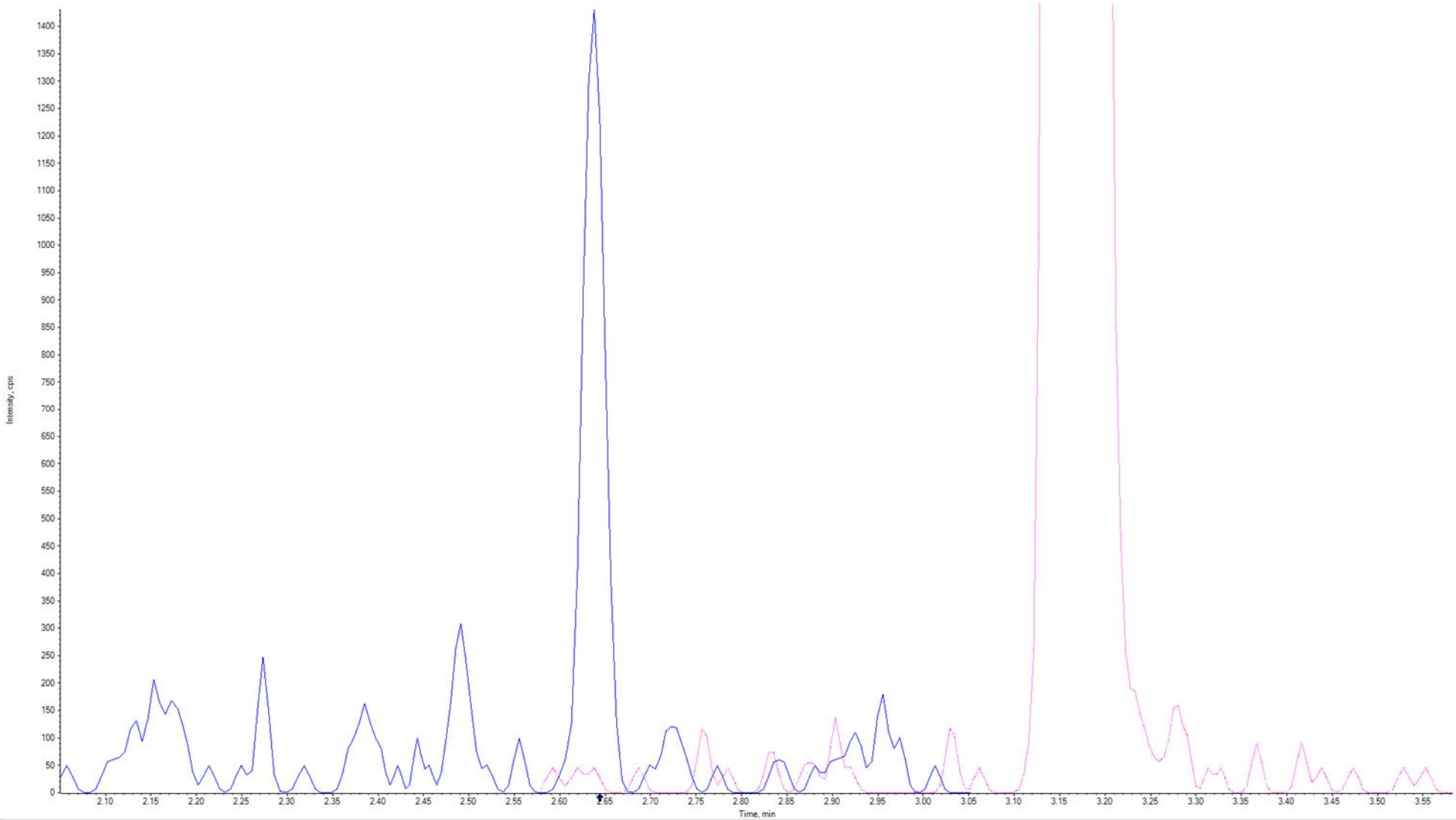
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFPeS
Sample: L2470744-03 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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Last Altered: 12/20/2024 12:29:45 PM
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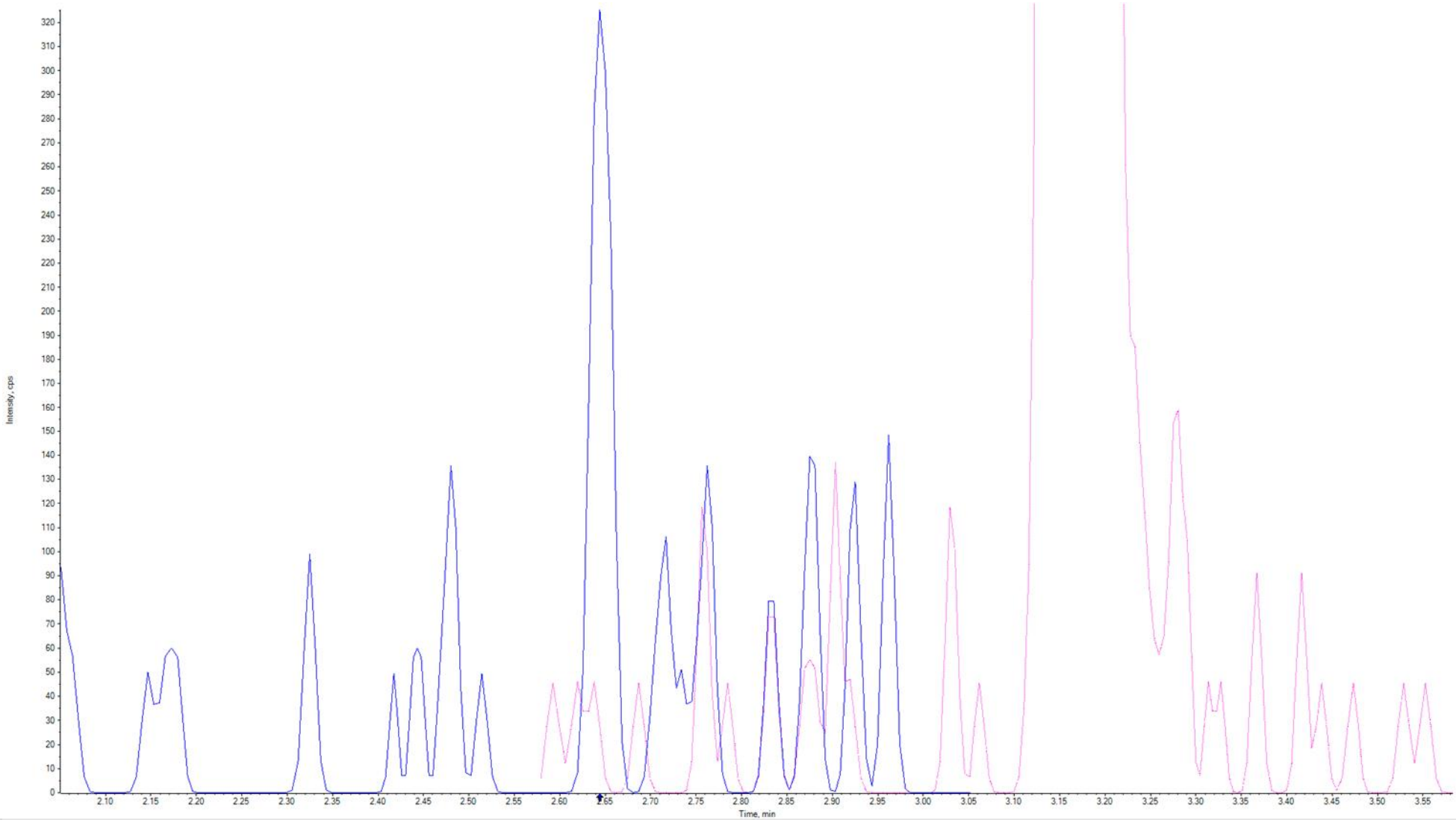
PFPeS_2
Sample: L2470744-03 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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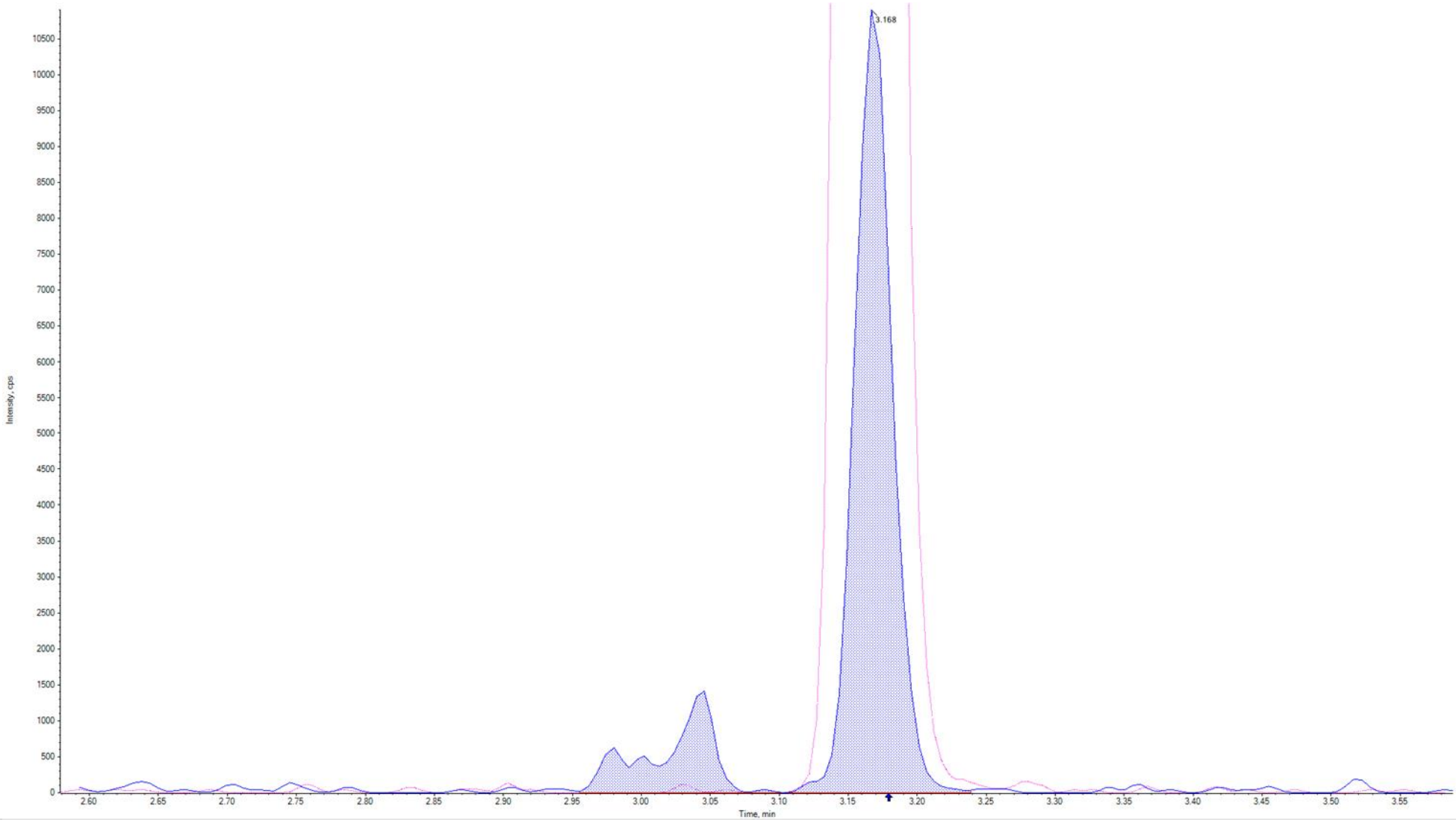
Generated: 12/20/2024 10:43:43 AM

PFHxS
Sample: L2470744-03 S/N:245.9 Points Across peak:54



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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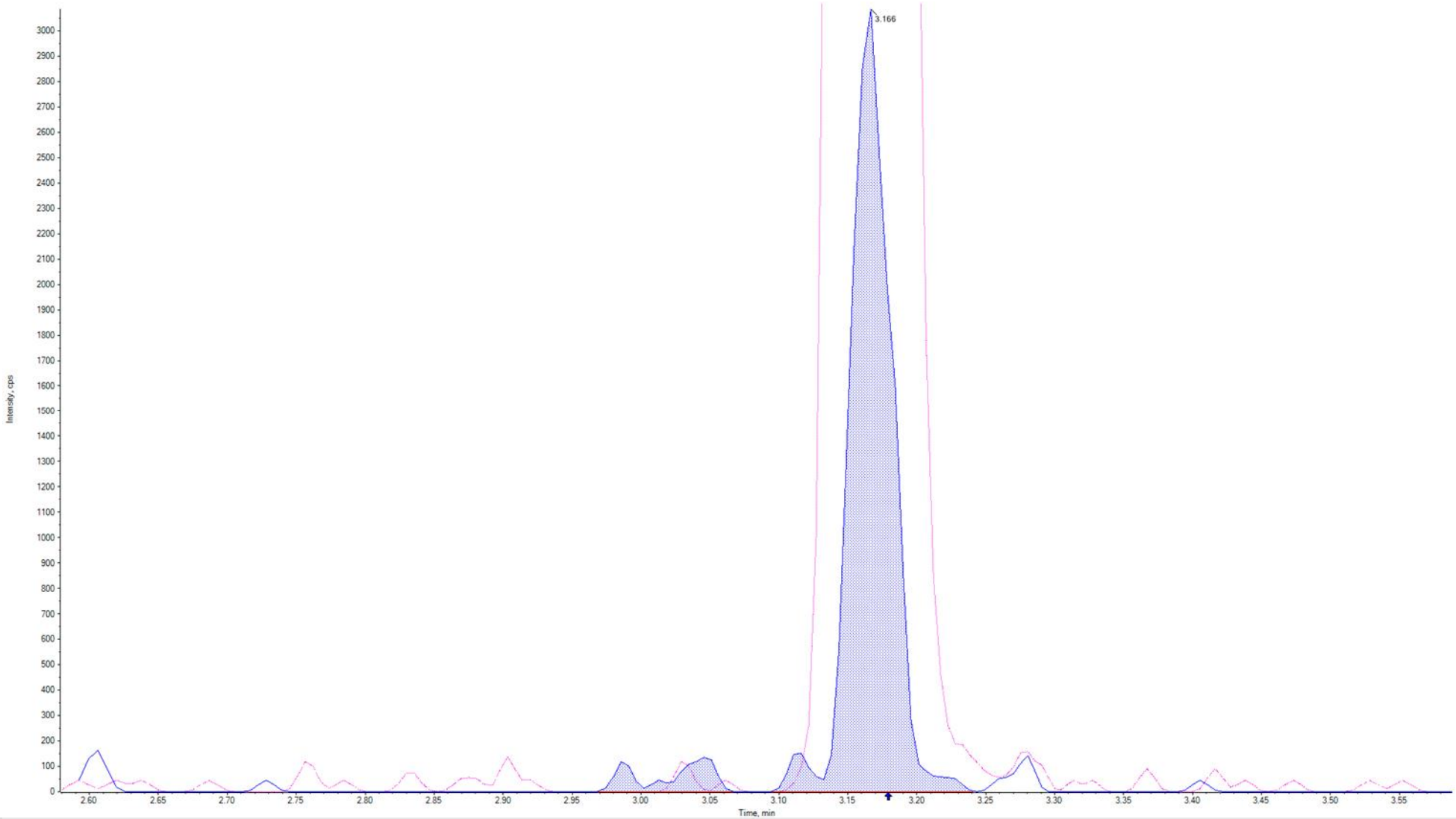
PFHxS_2
Sample: L2470744-03 S/N:69.6 Points Across peak:51



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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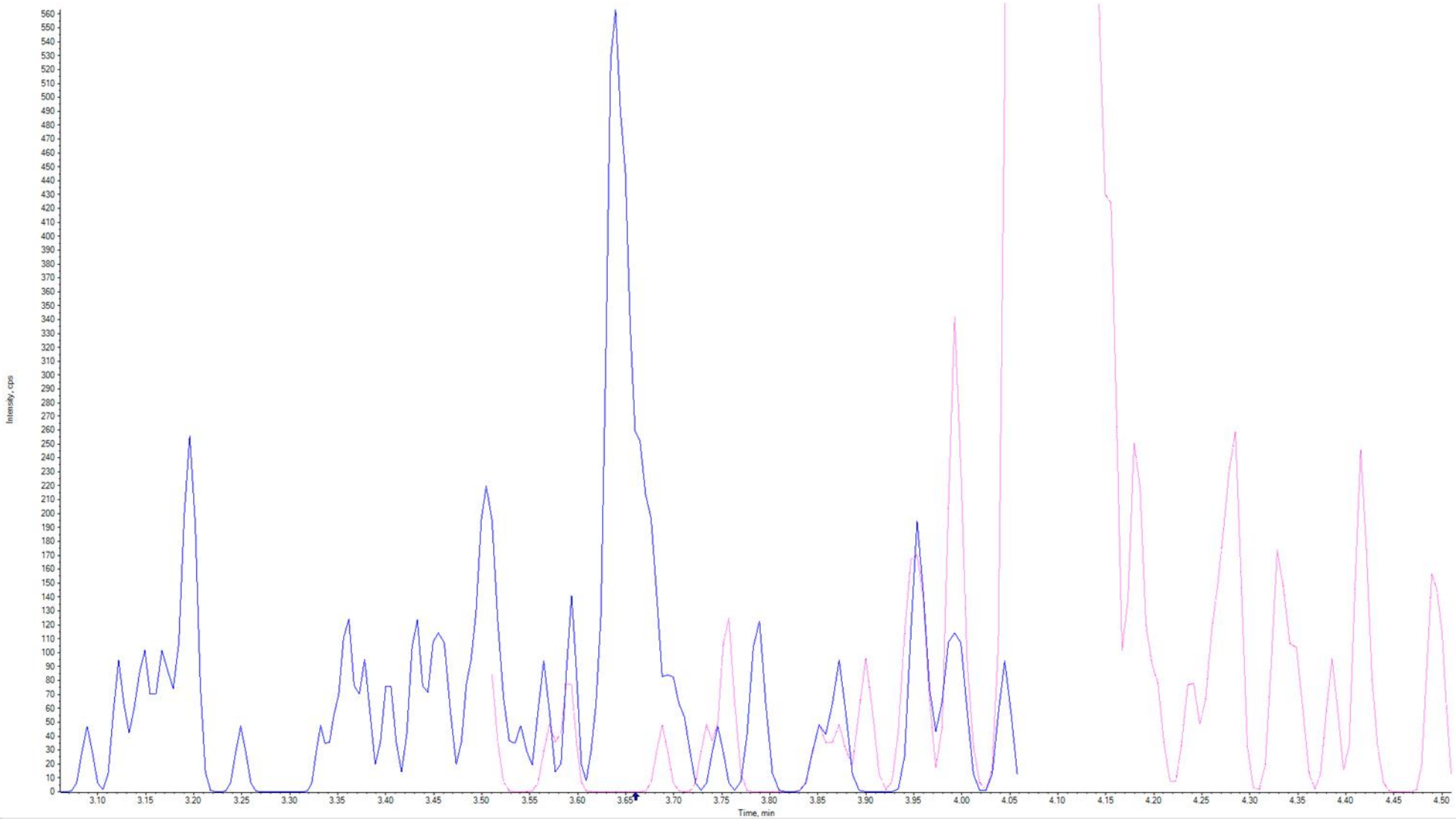
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFHpS
Sample: L2470744-03 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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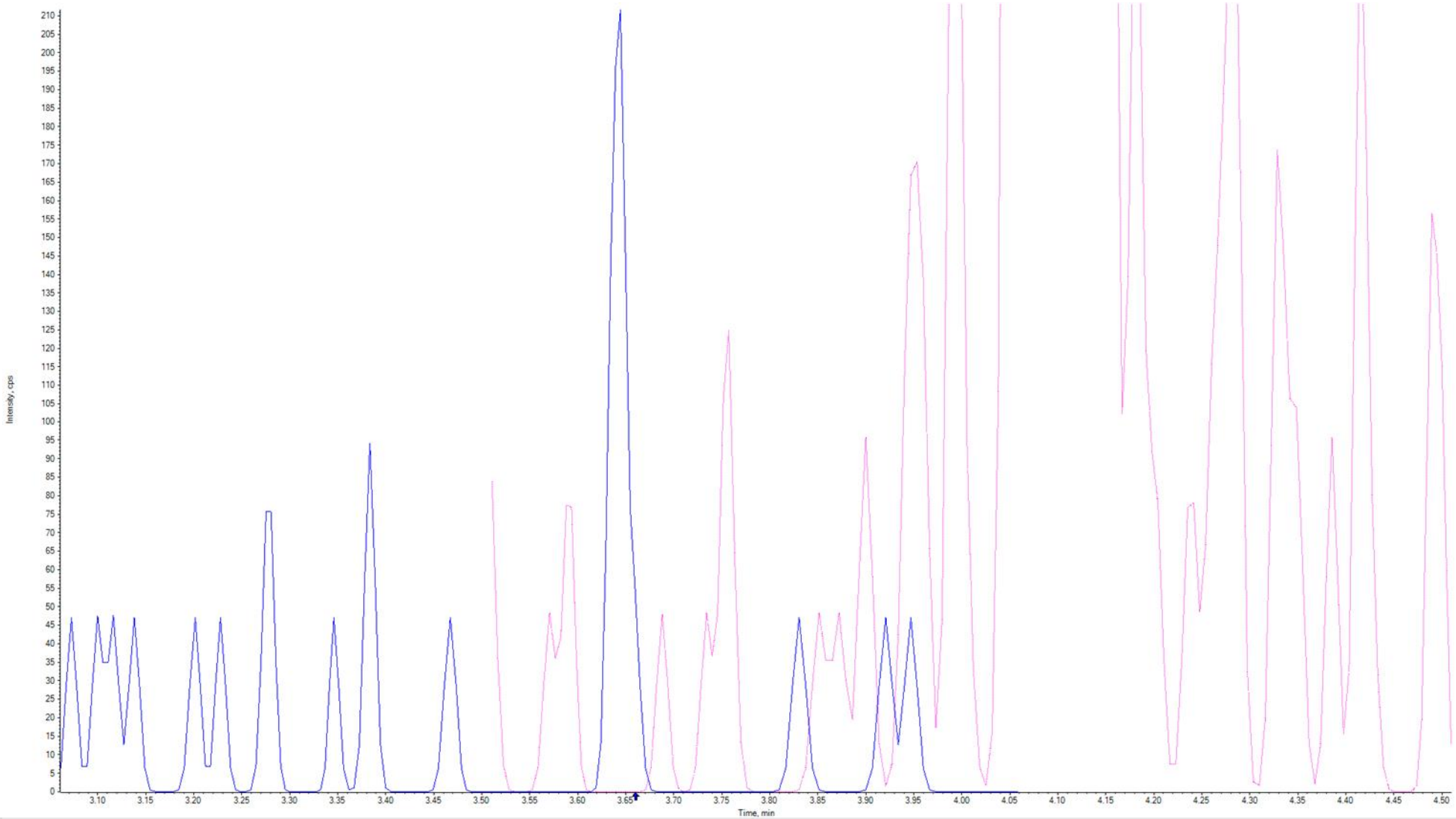
PFHpS_2
Sample: L2470744-03 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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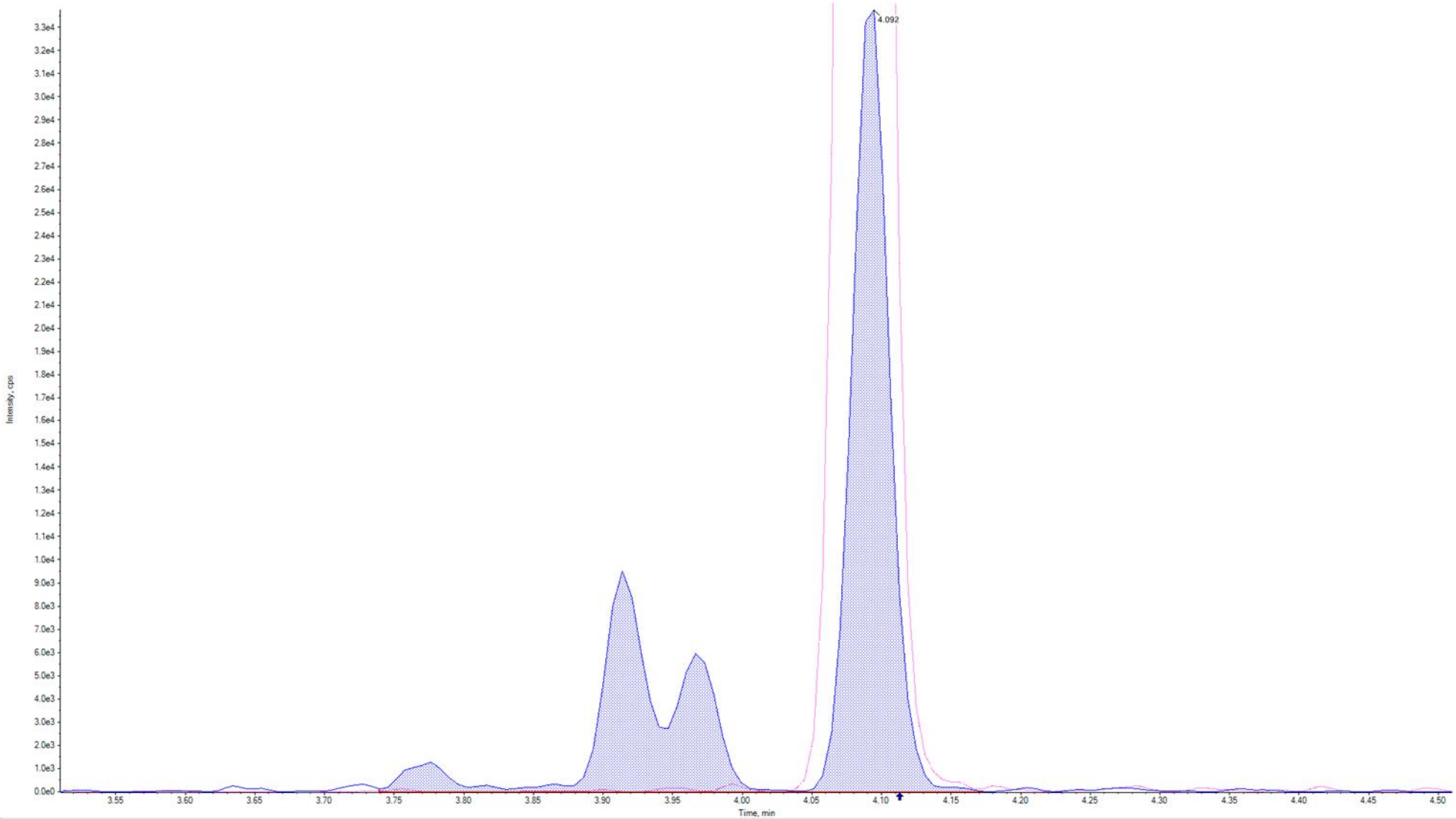
Generated: 12/20/2024 10:43:43 AM

PFOS
Sample: L2470744-03 S/N:272.0 Points Across peak:70



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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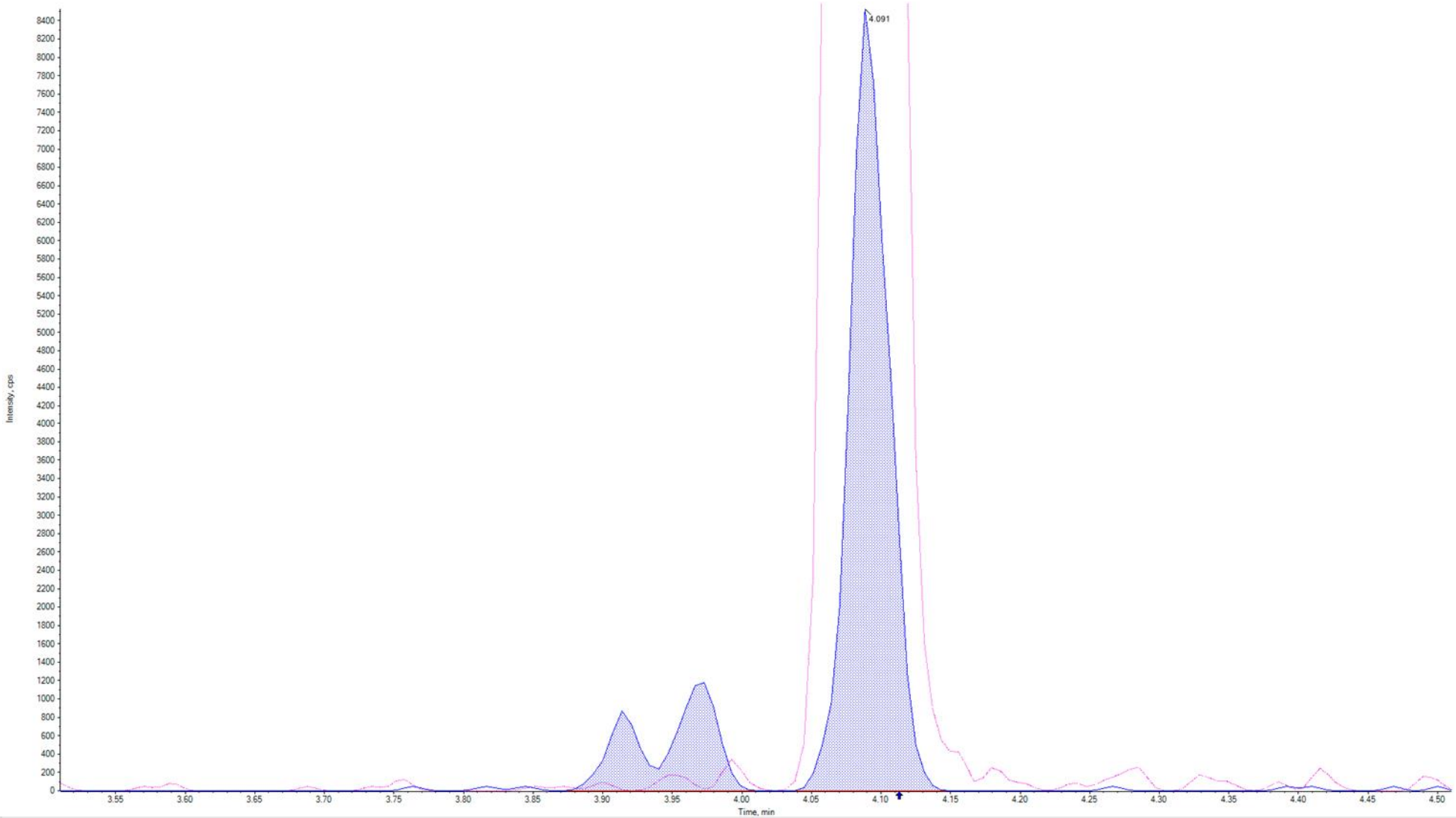
PFOS_2
Sample: L2470744-03 S/N:171.0 Points Across peak:45



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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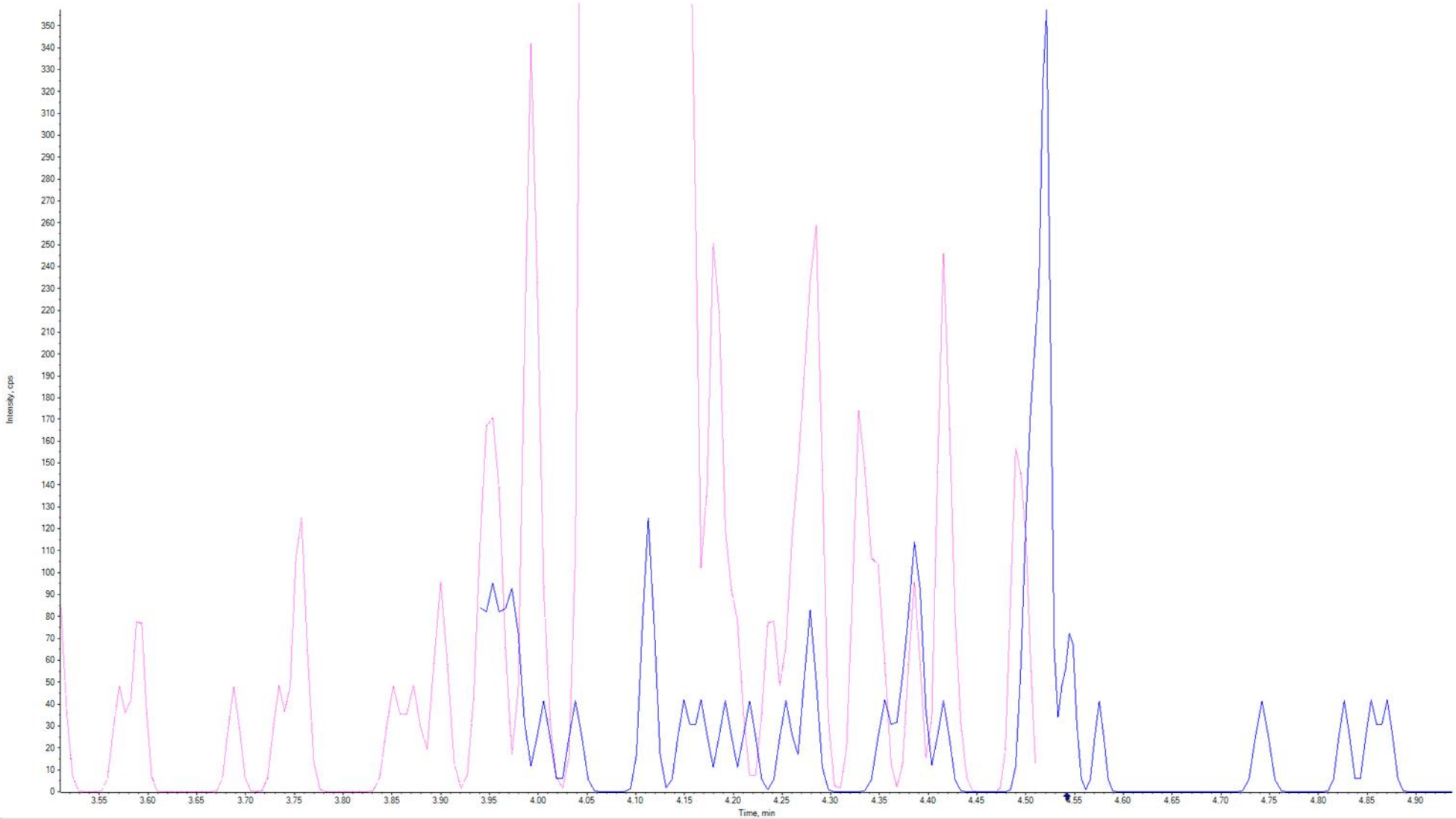
Generated: 12/20/2024 10:43:43 AM

PFNS
Sample: L2470744-03 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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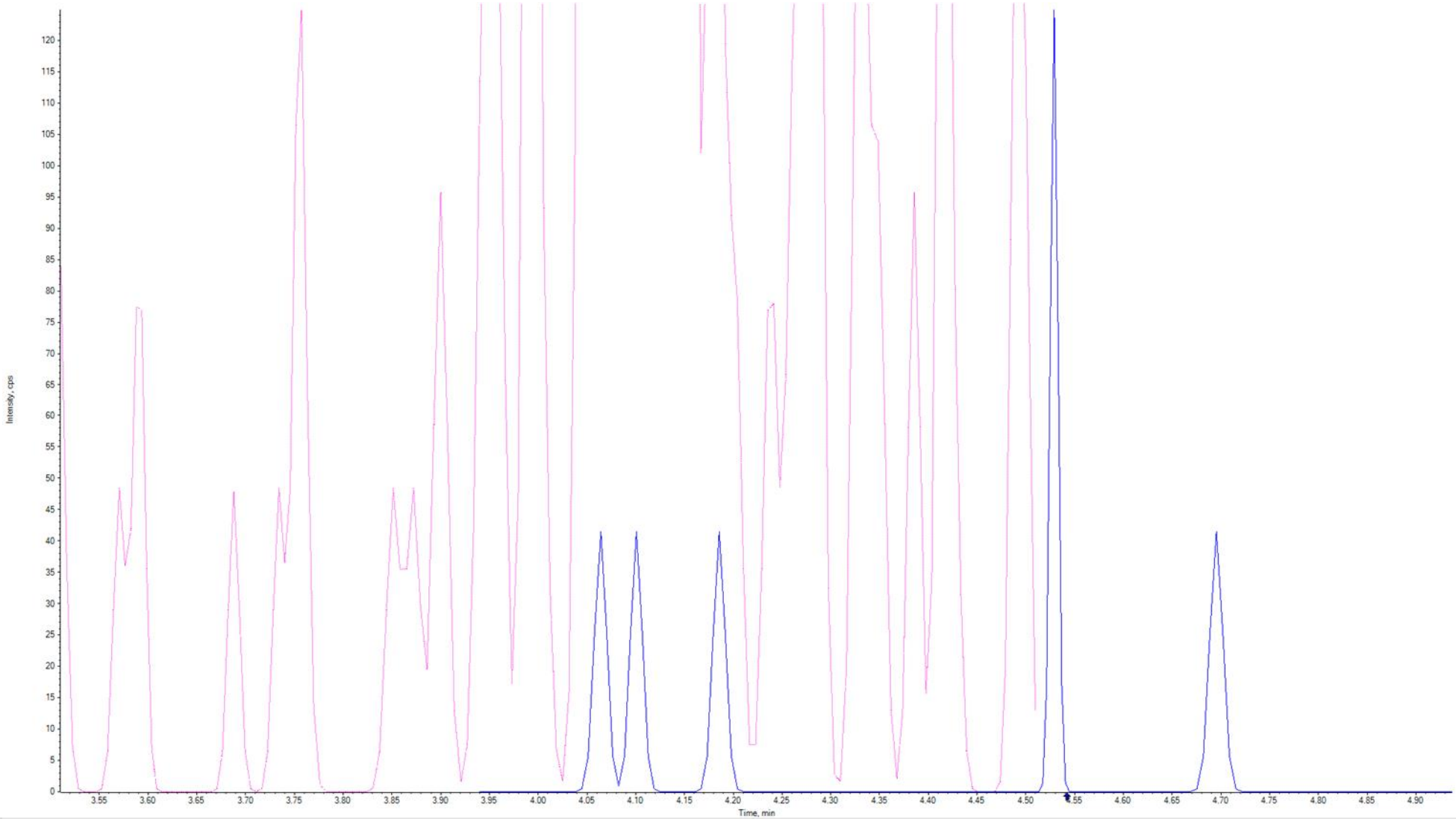
Generated: 12/20/2024 10:43:43 AM

PFNS_2
Sample: L2470744-03 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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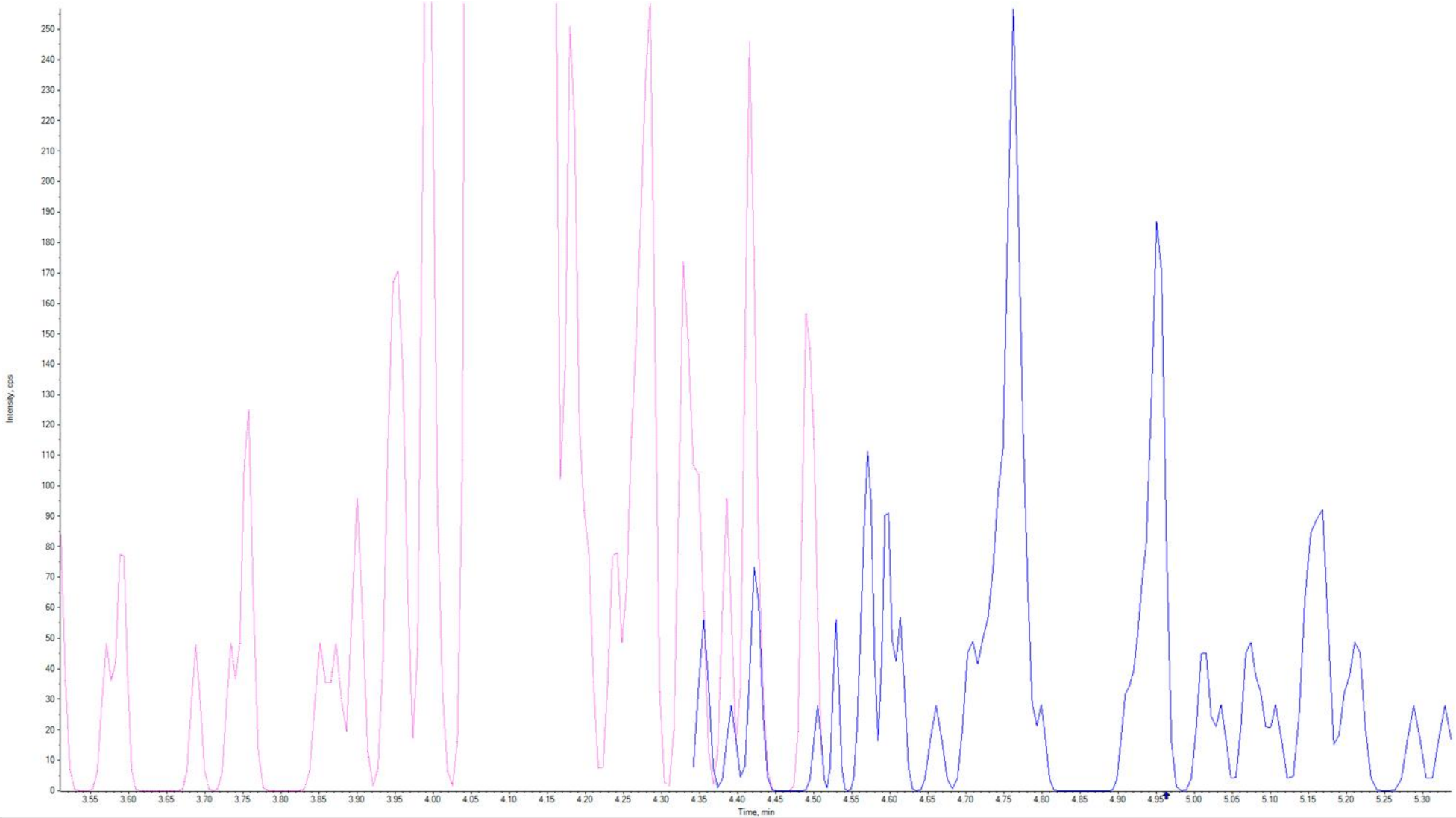
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFDS
Sample: L2470744-03 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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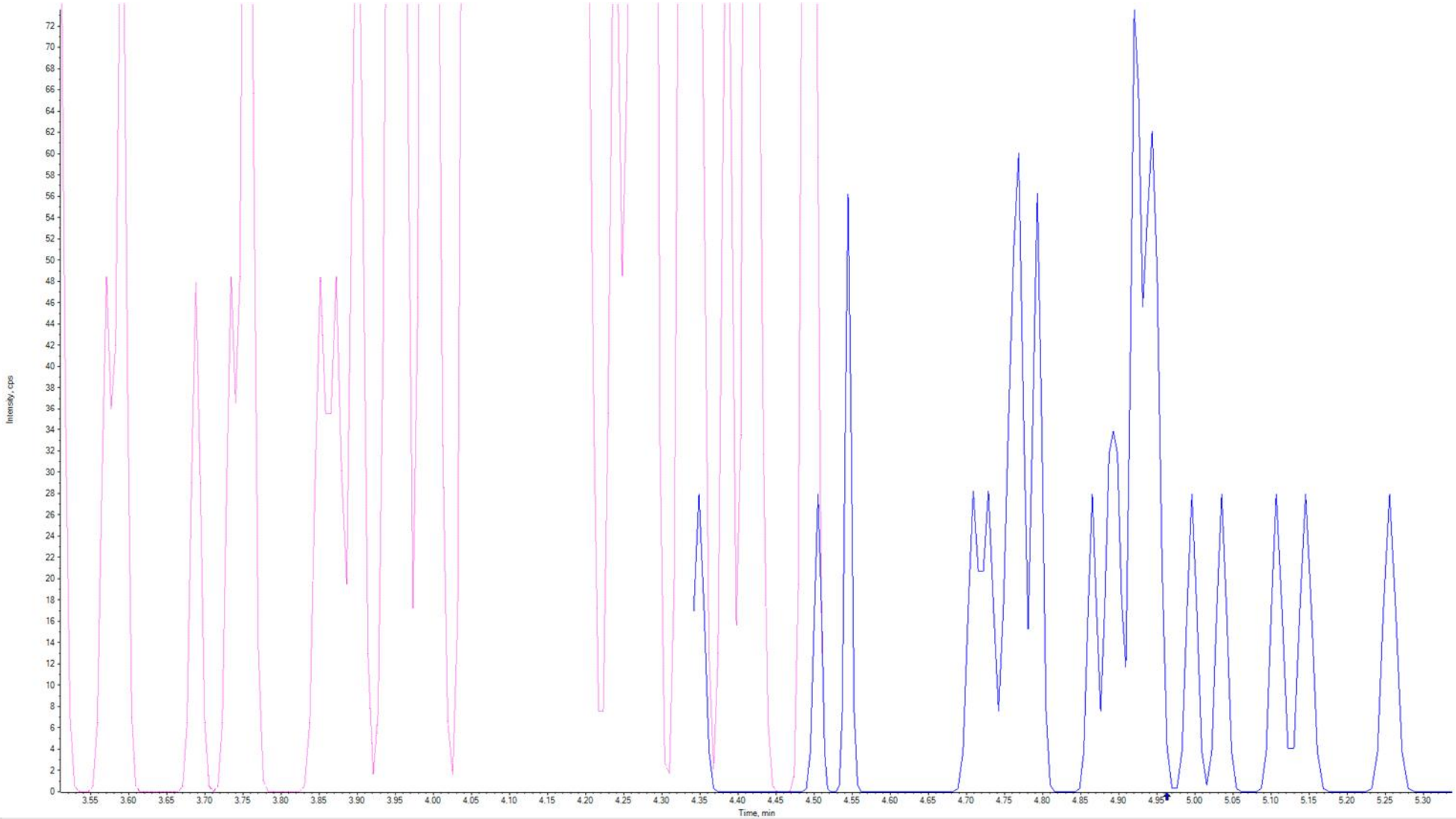
PFDS_2
Sample: L2470744-03 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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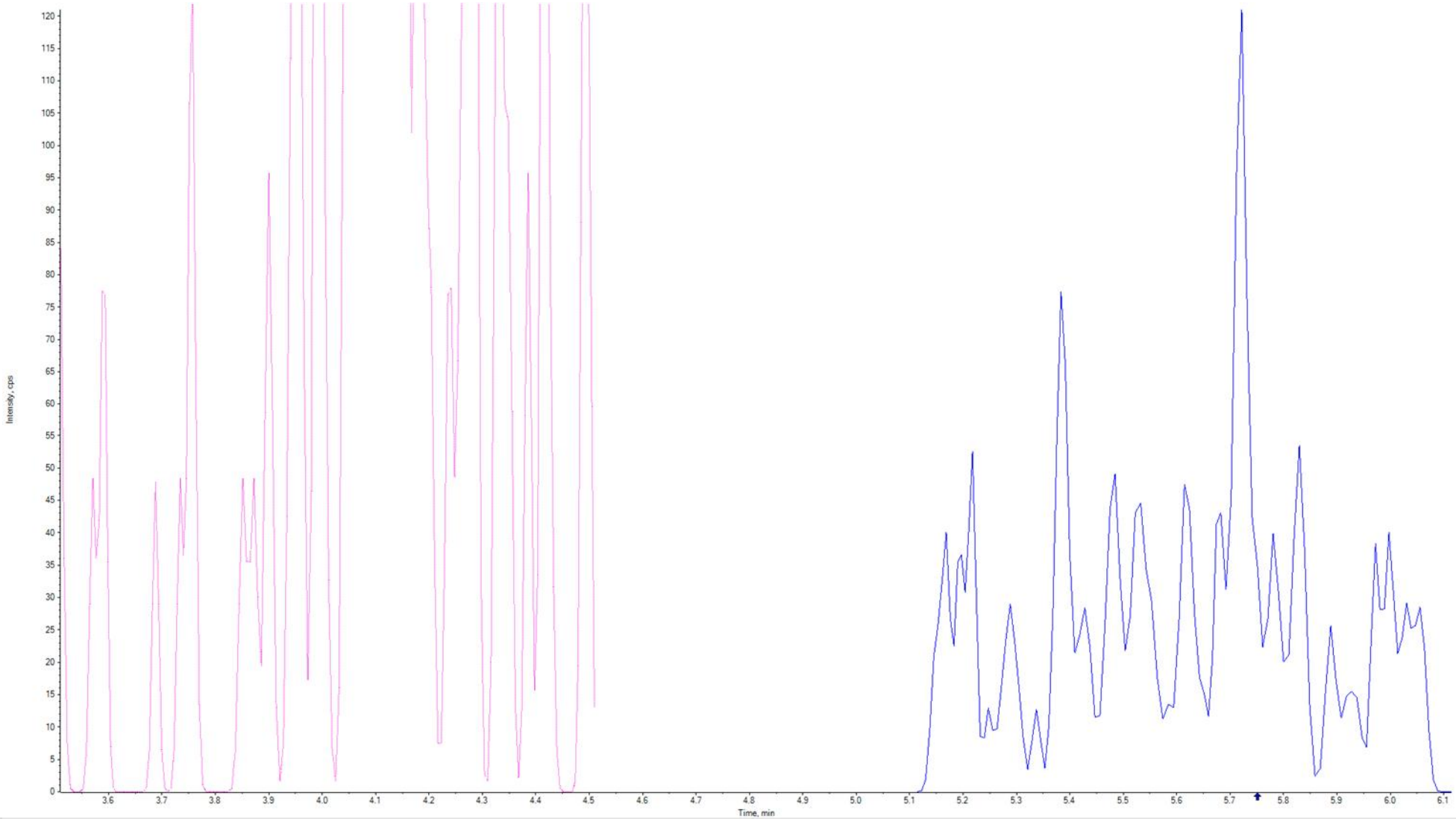
PFDoS
Sample: L2470744-03 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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PFDoS_2
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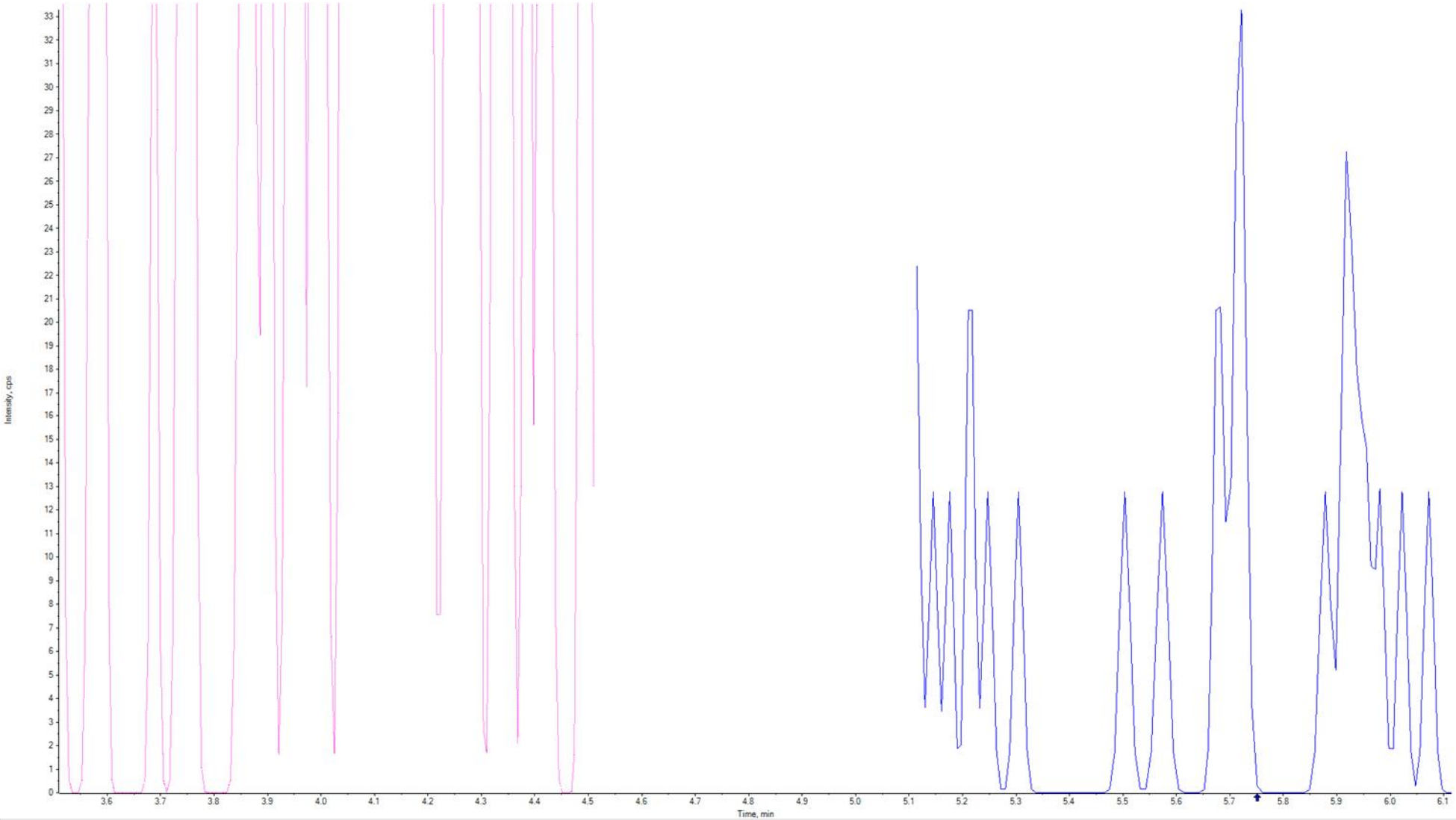

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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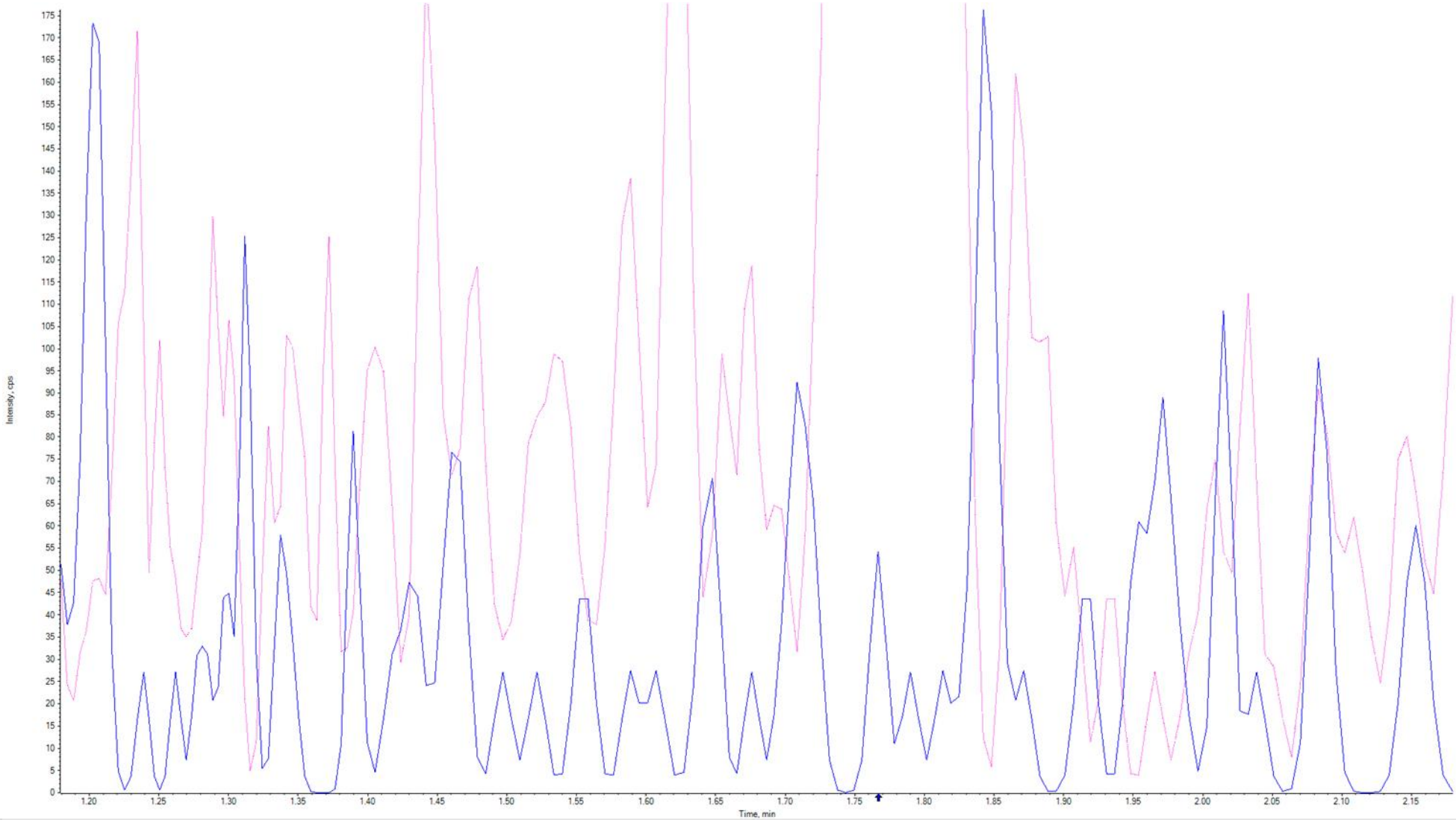
4:2FTS
Sample: L2470744-03 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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4:2FTS_2
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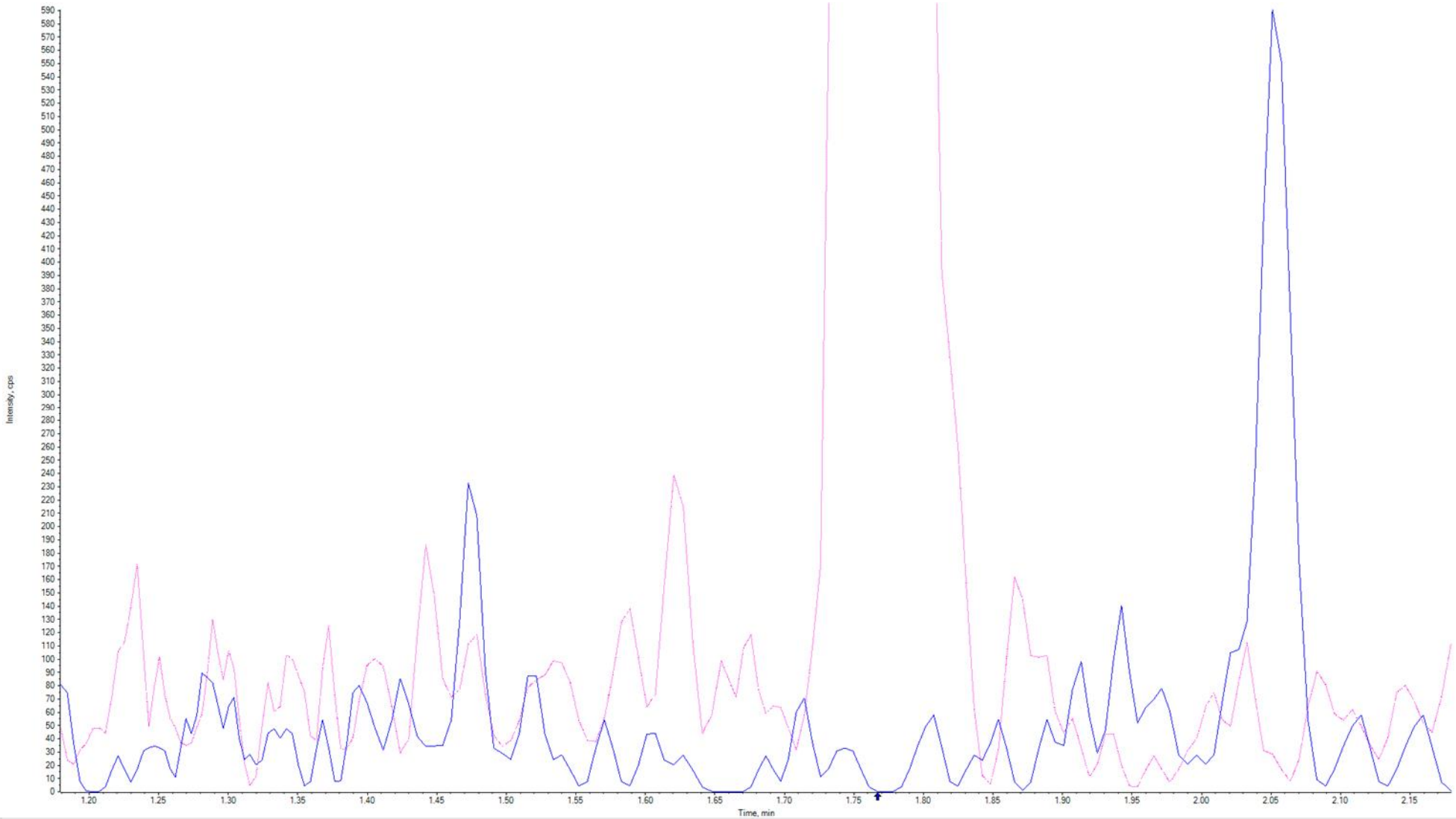

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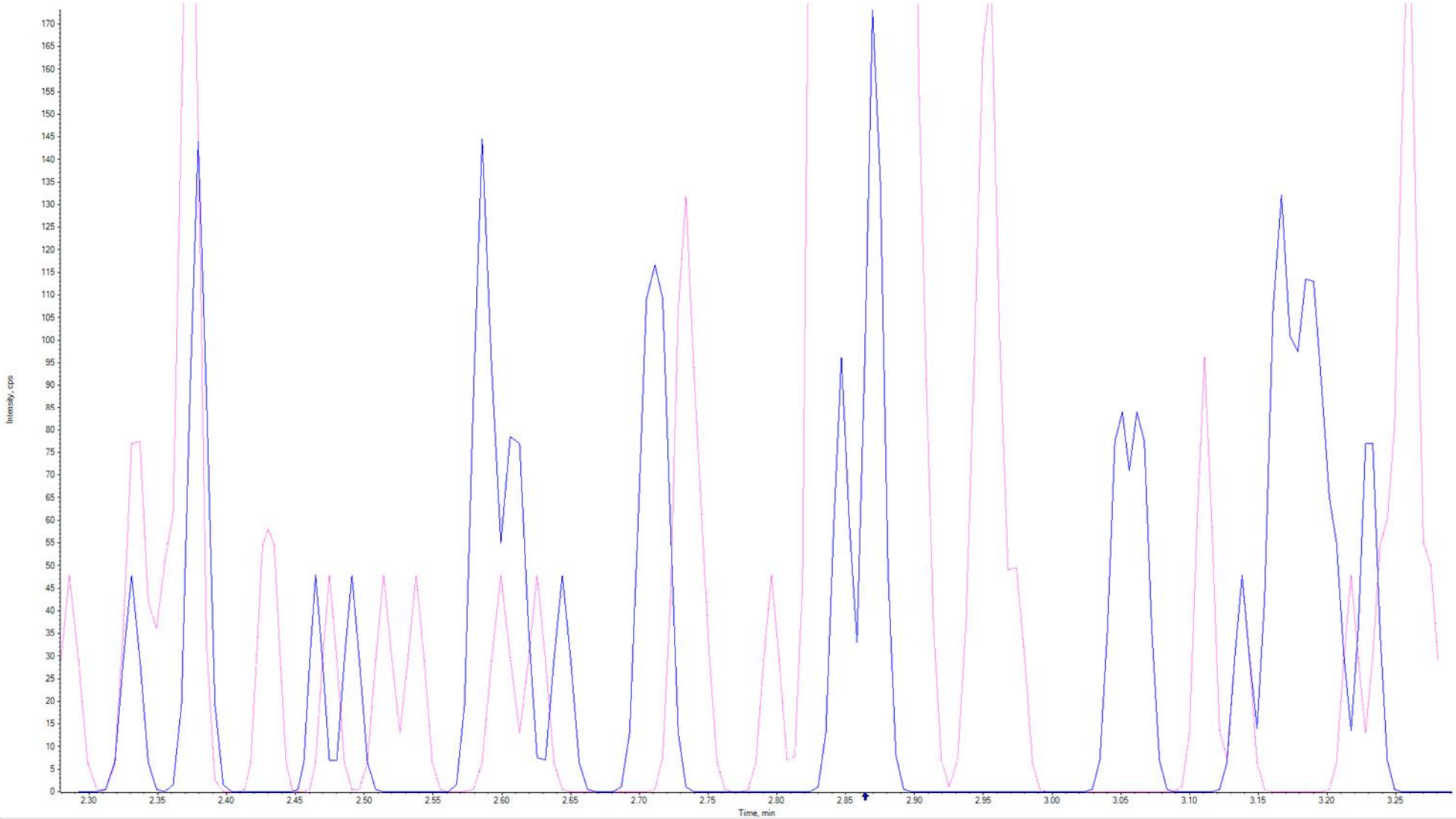
Generated: 12/20/2024 10:43:43 AM

6:2FTS
Sample: L2470744-03 S/N:N/A Points Across peak:N/A



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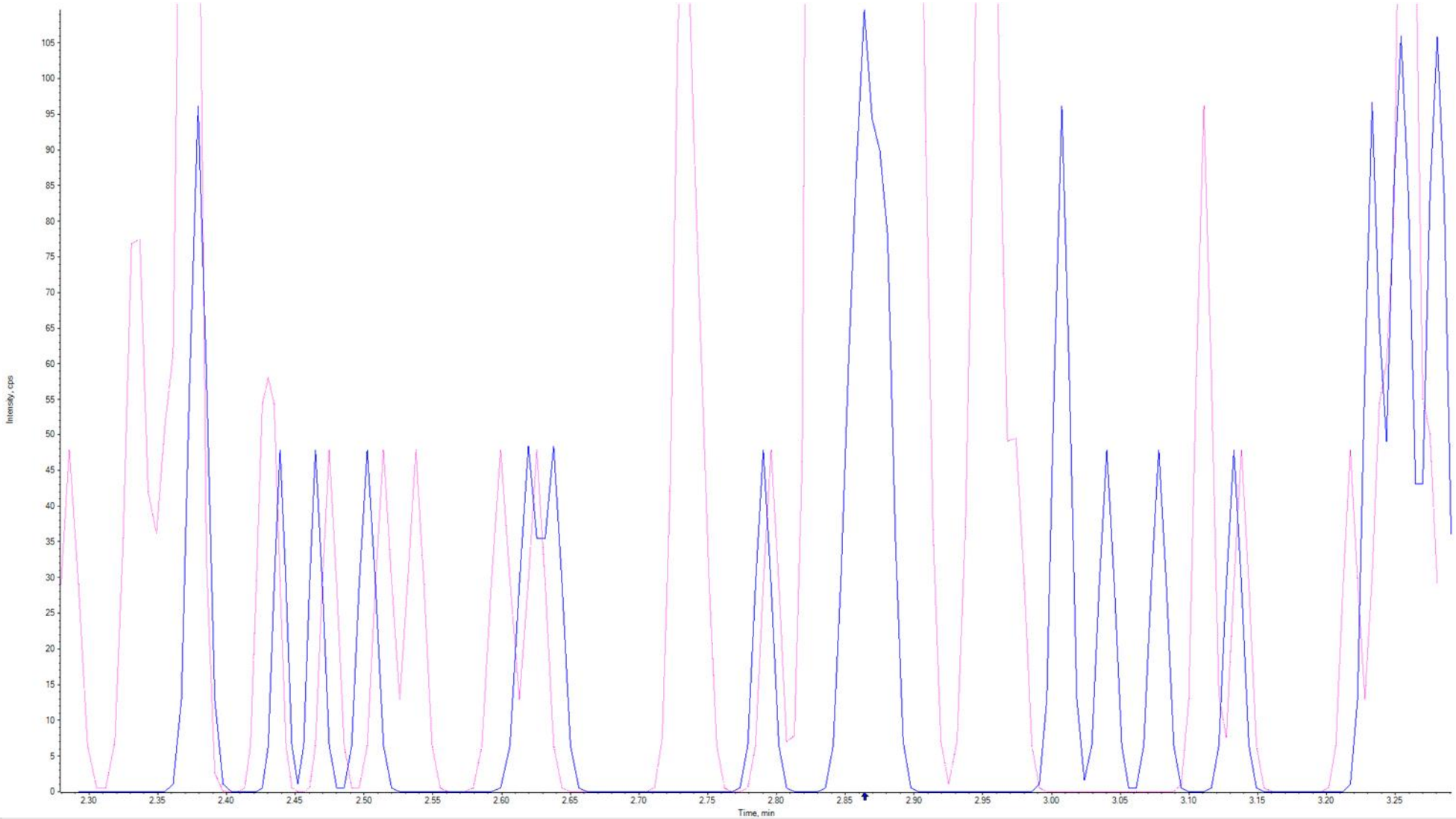
6:2FTS_2
Sample: L2470744-03 S/N:N/A Points Across peak:N/A



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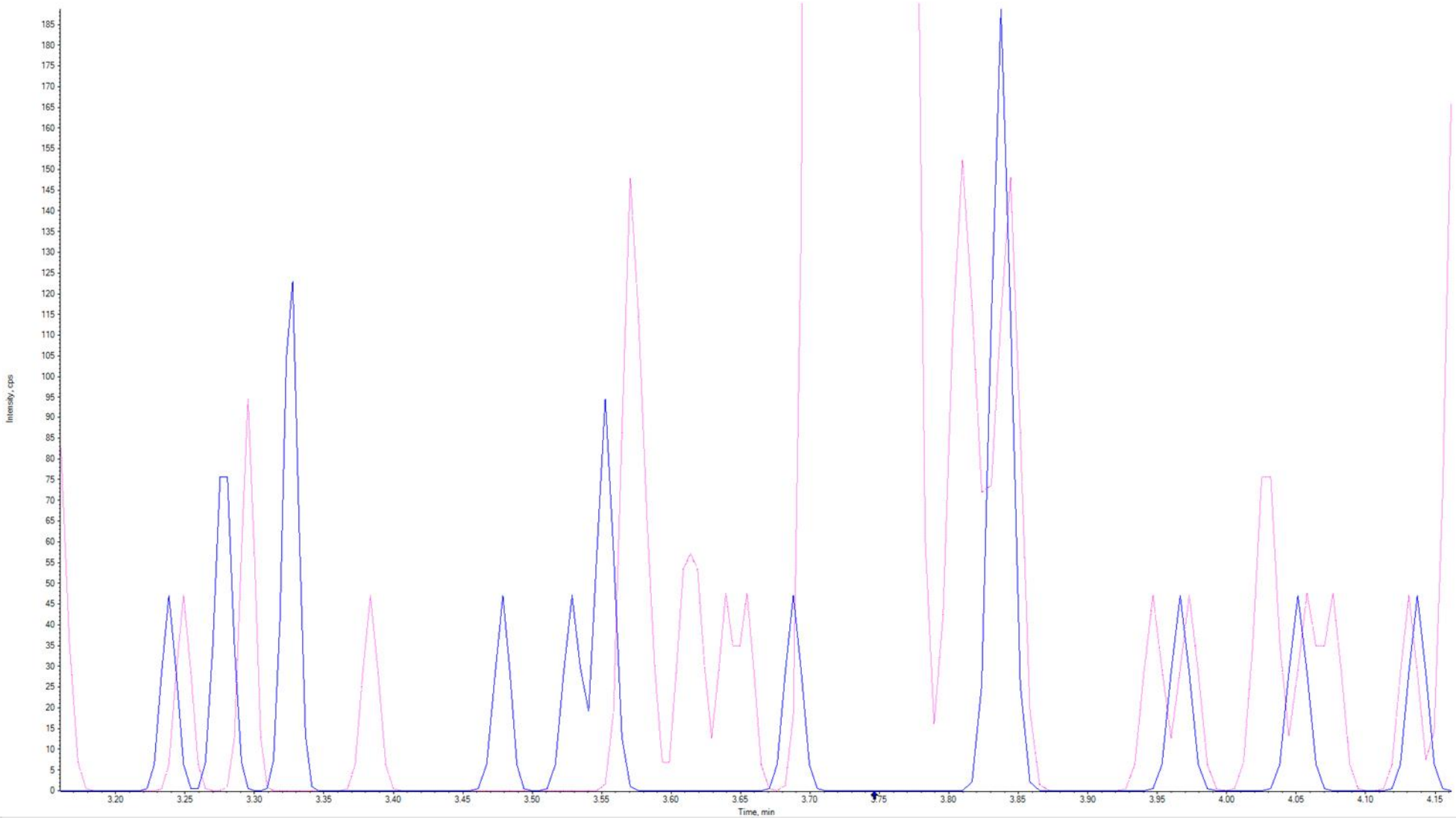
8:2FTS
Sample: L2470744-03 S/N:N/A Points Across peak:N/A



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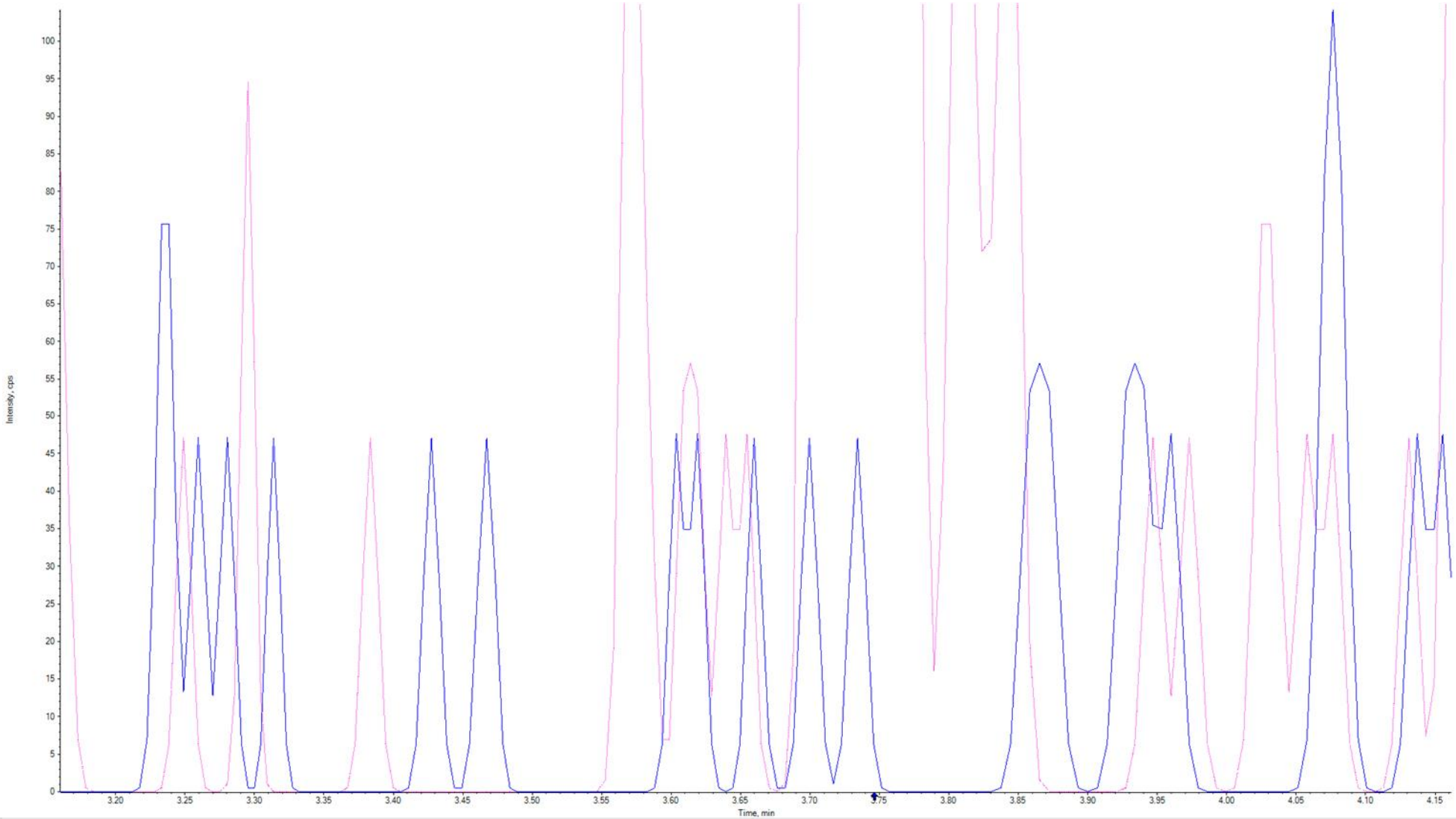
8:2FTS_2
Sample: L2470744-03 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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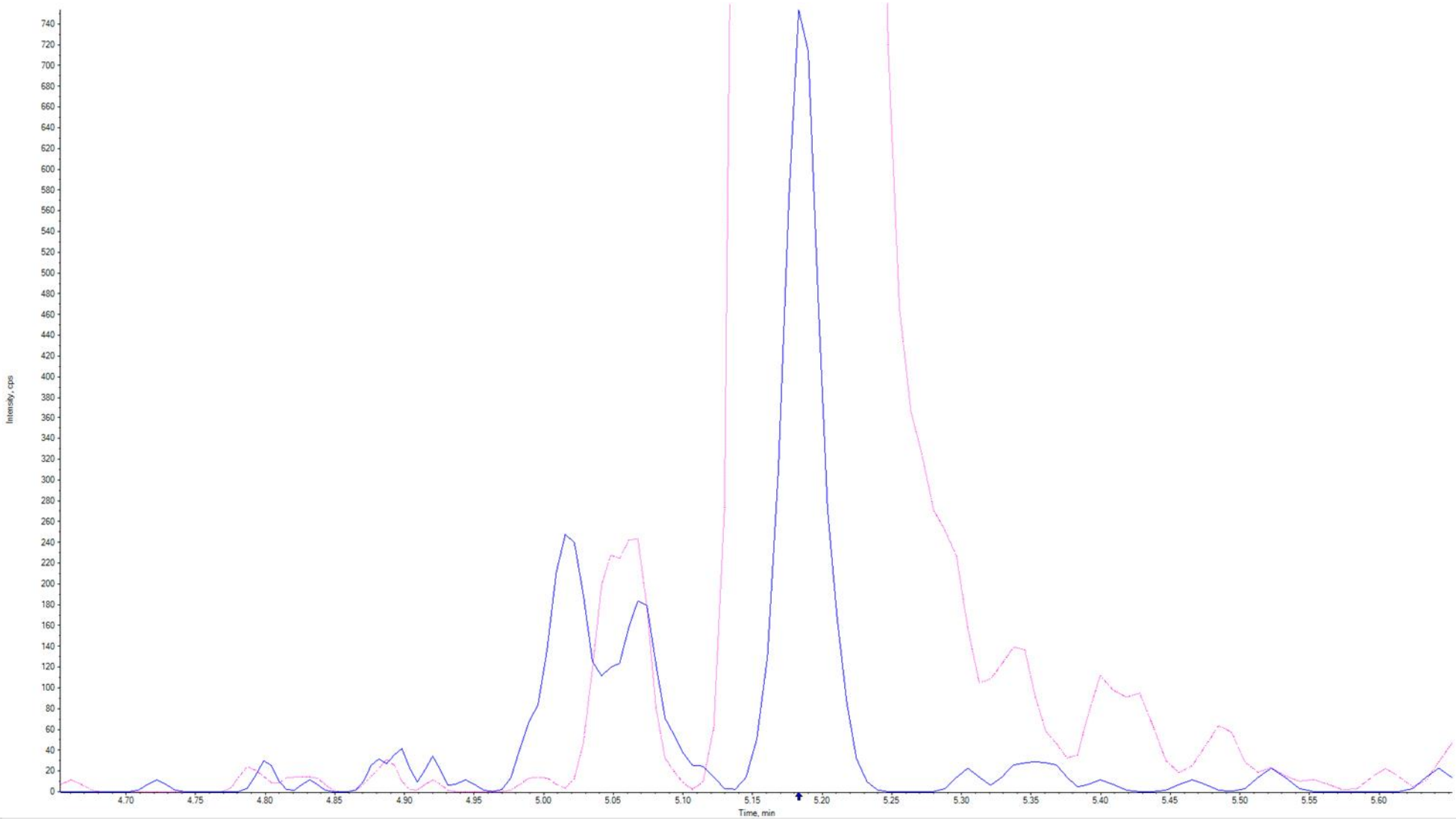
Generated: 12/20/2024 10:43:43 AM

PFOSA
Sample: L2470744-03 S/N:N/A Points Across peak:N/A



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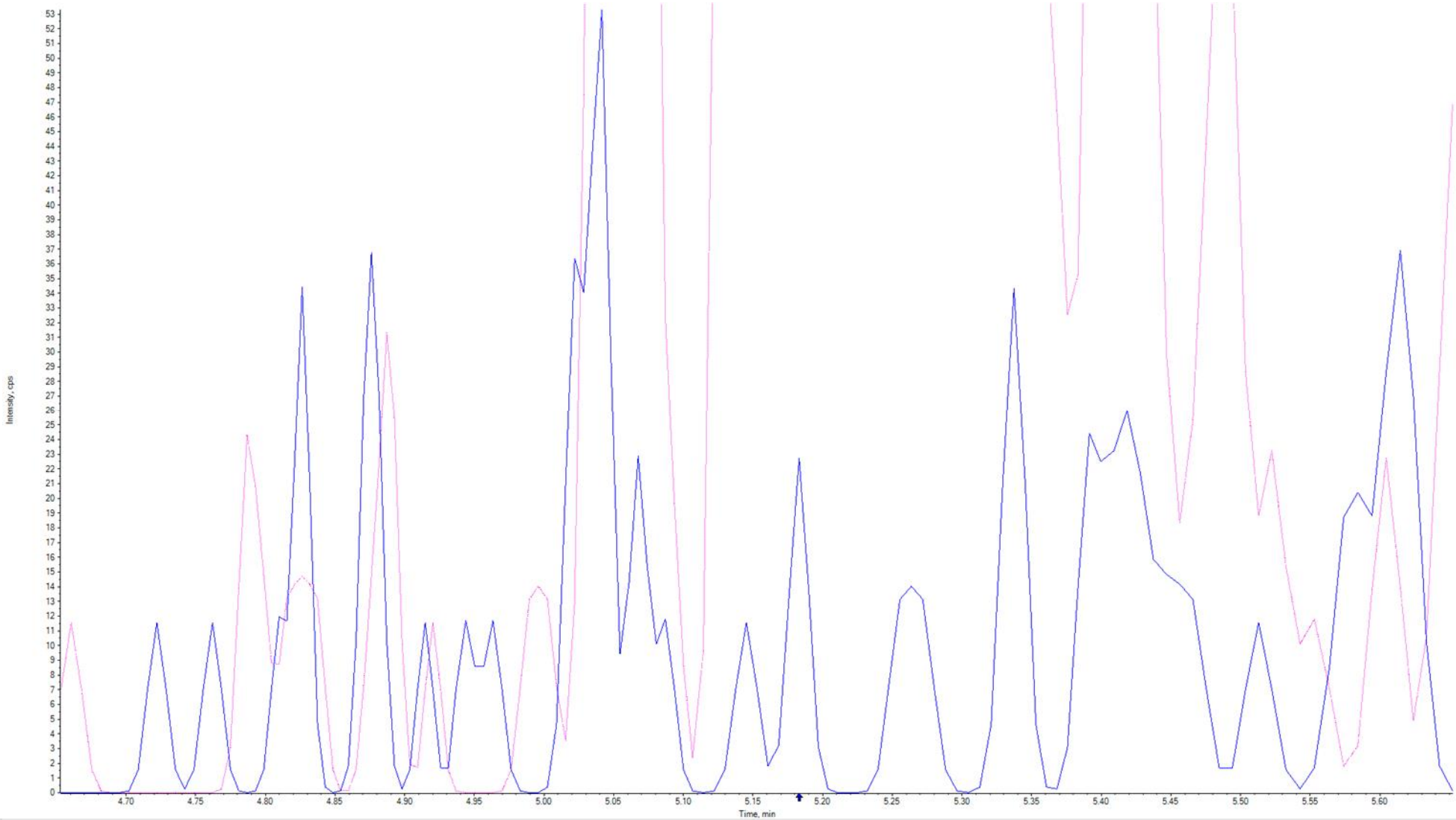
PFOSA_2
Sample: L2470744-03 S/N:N/A Points Across peak:N/A



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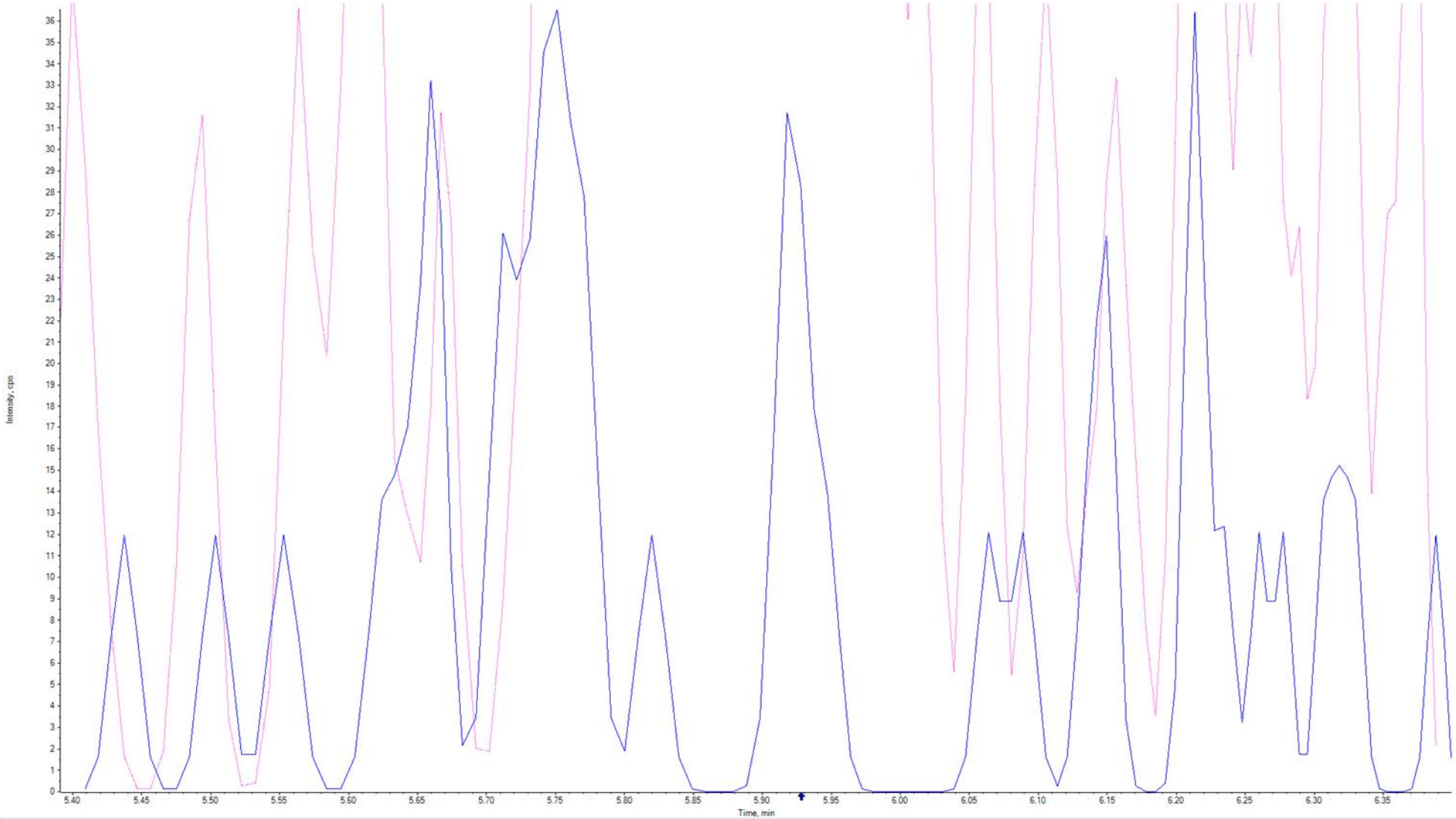
NMeFOSA
Sample: L2470744-03 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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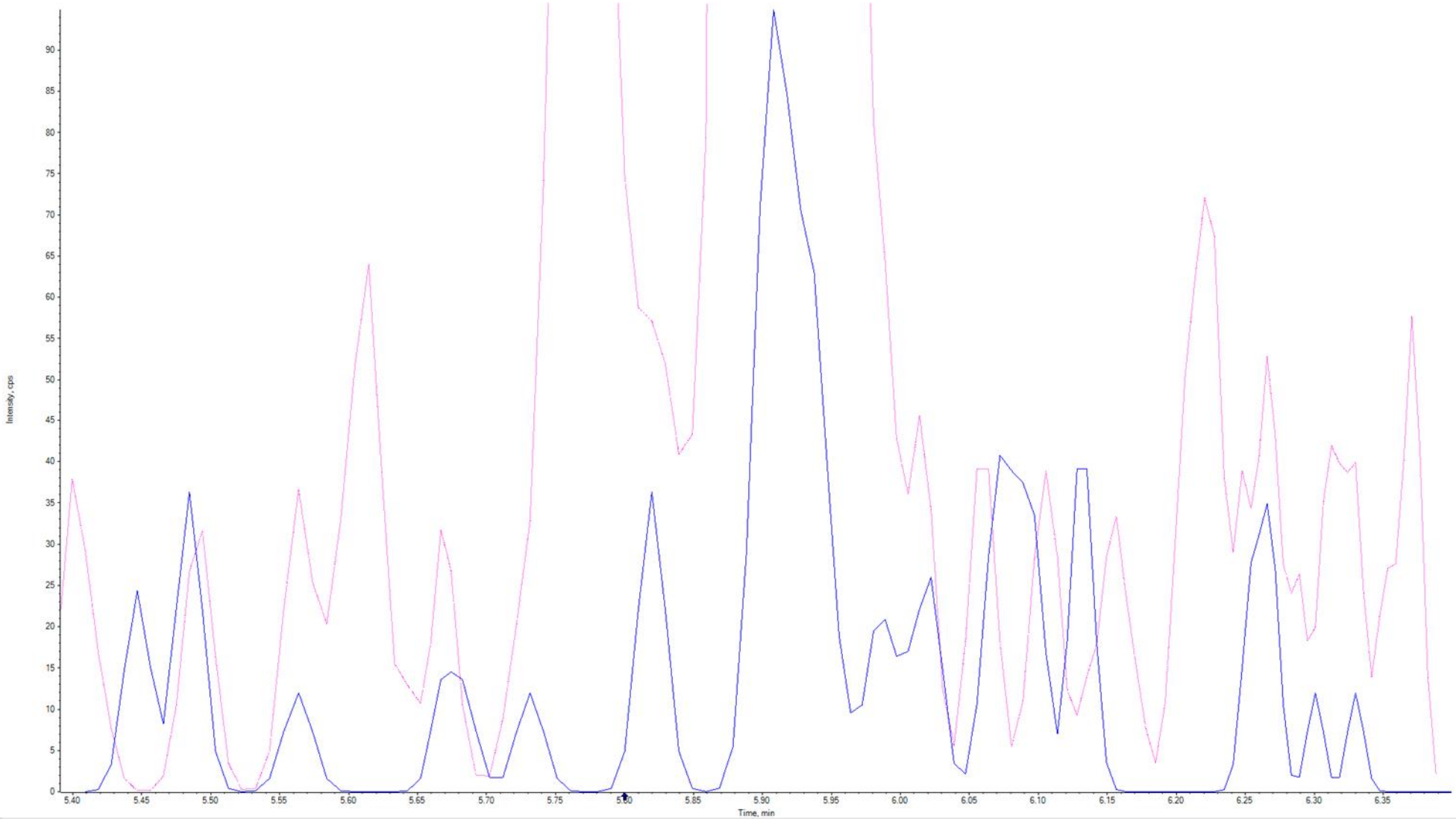
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

NMeFOSA_2
Sample: L2470744-03 S/N:N/A Points Across peak:N/A



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NEtFOSA
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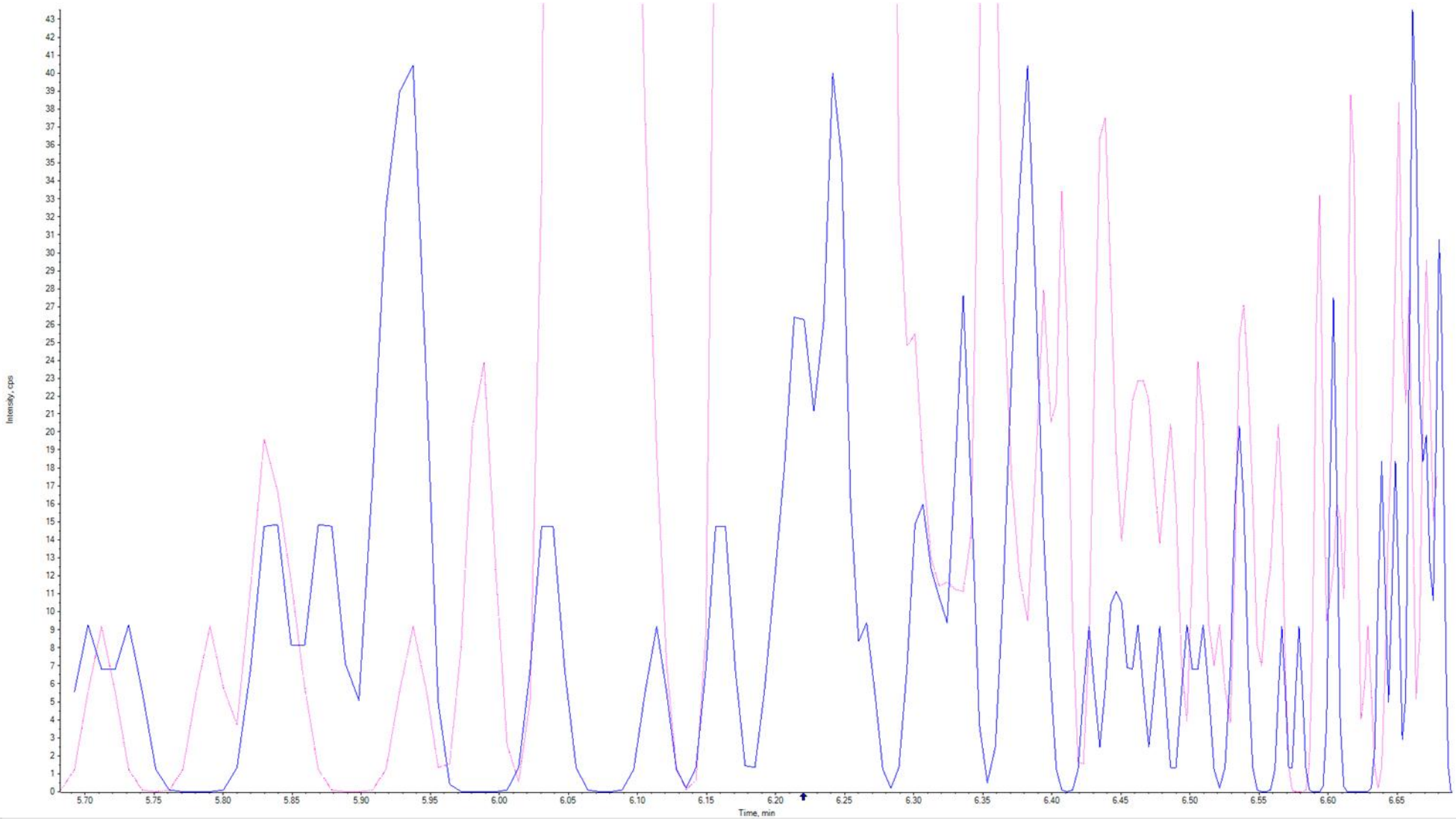

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Alpha Analytical LLC
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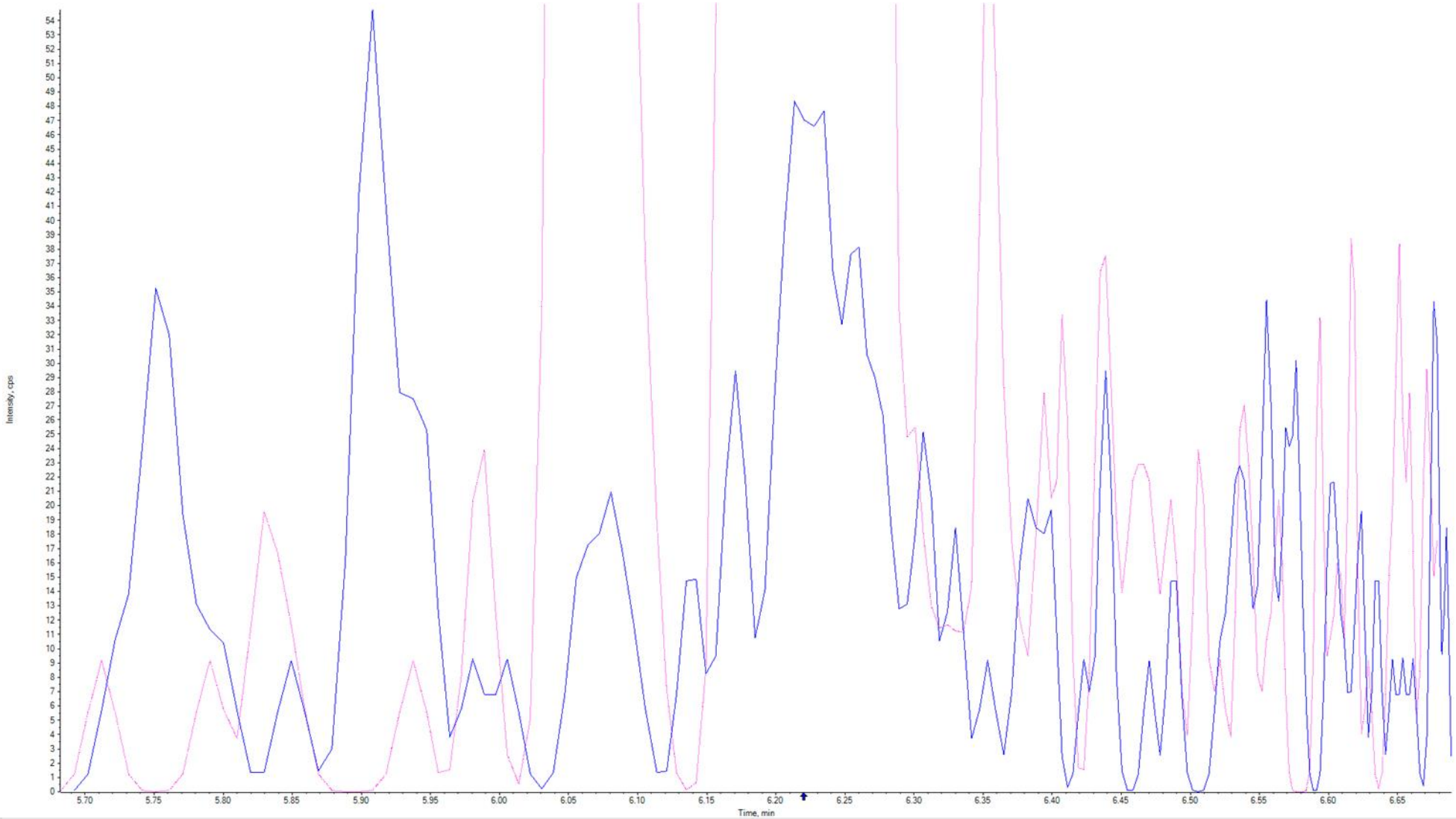

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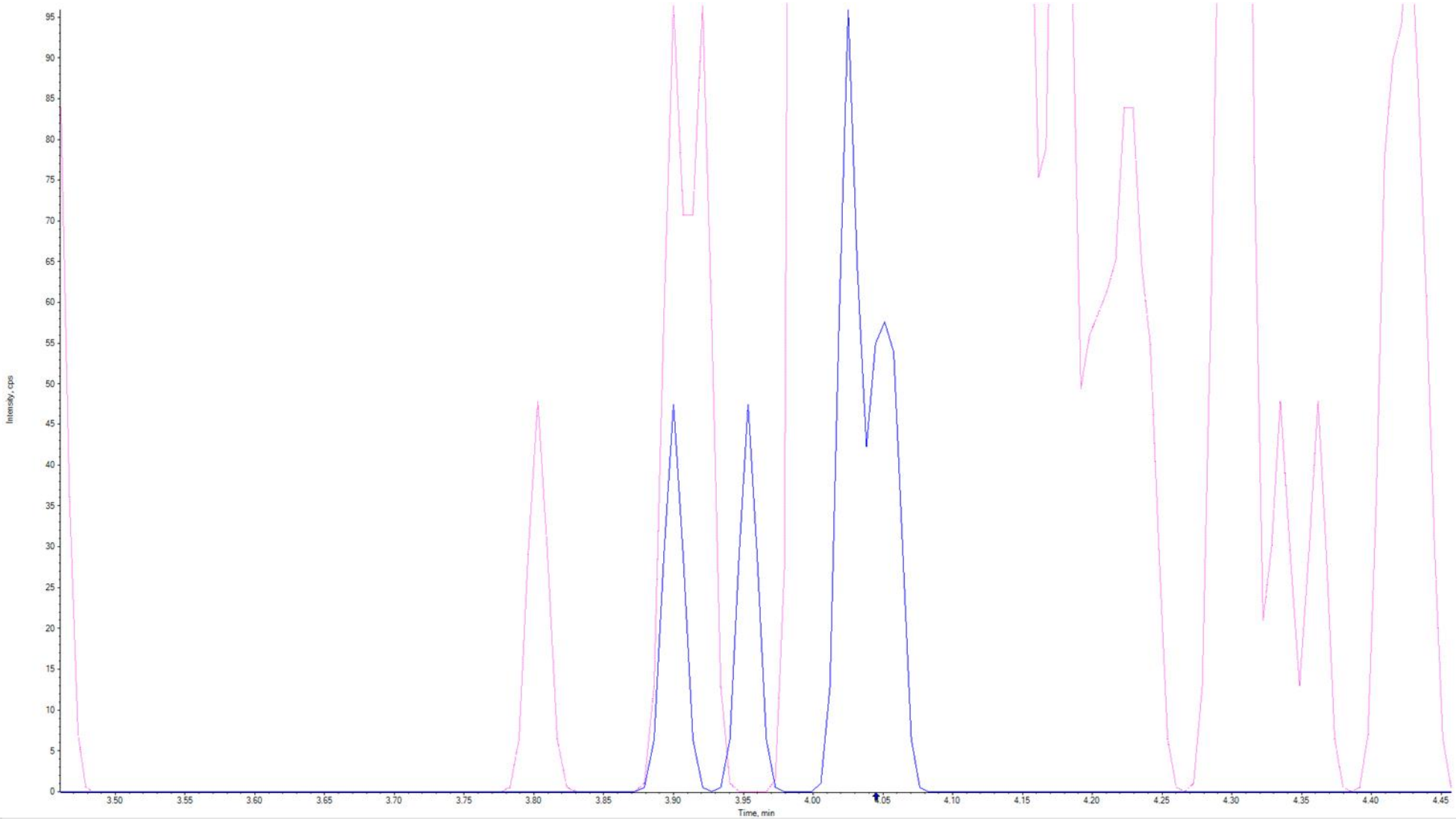

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Alpha Analytical LLC
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NMeFOSAA_2
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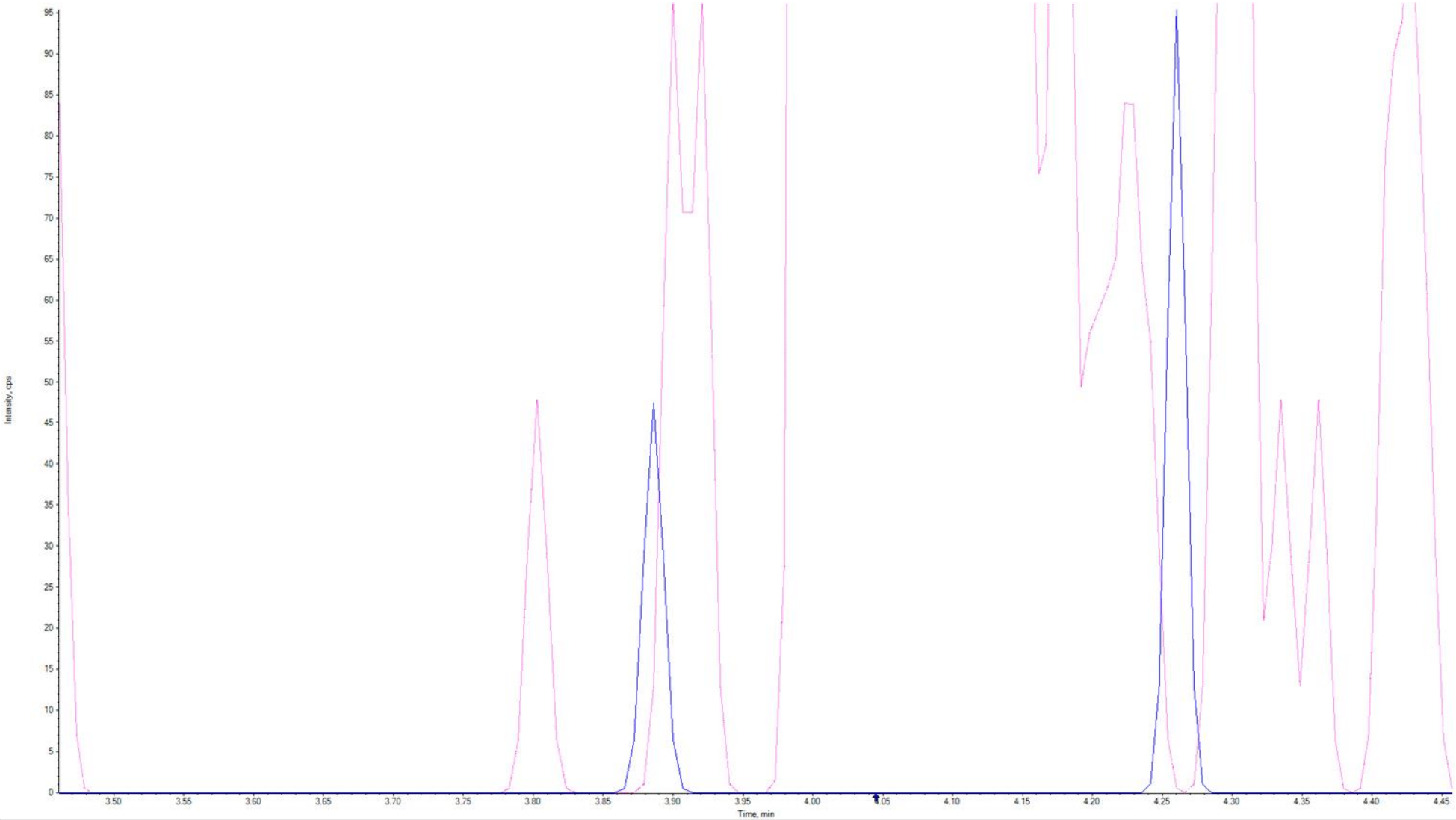

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Alpha Analytical LLC
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NEtFOSAA
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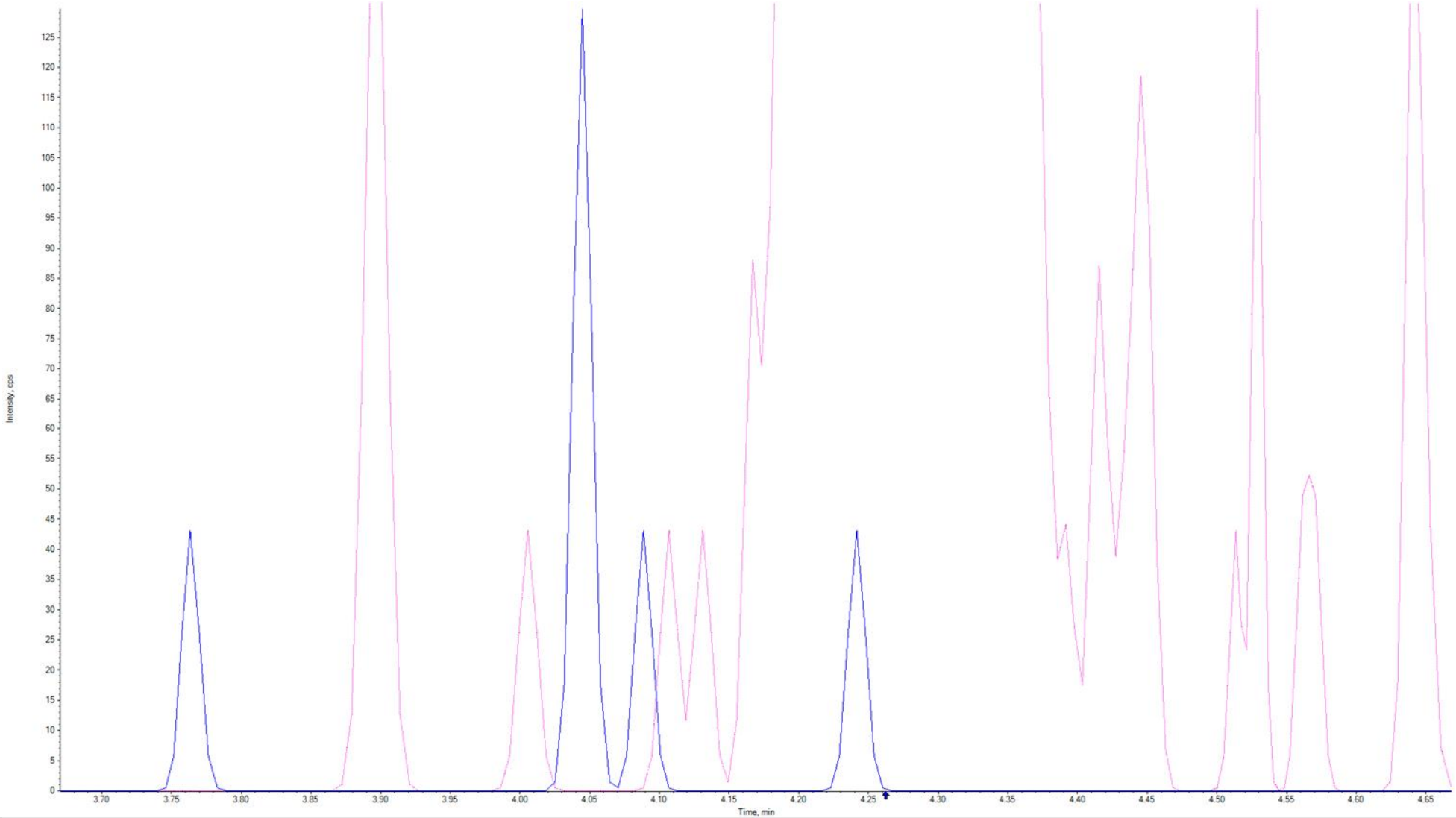

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NEtFOSAA_2
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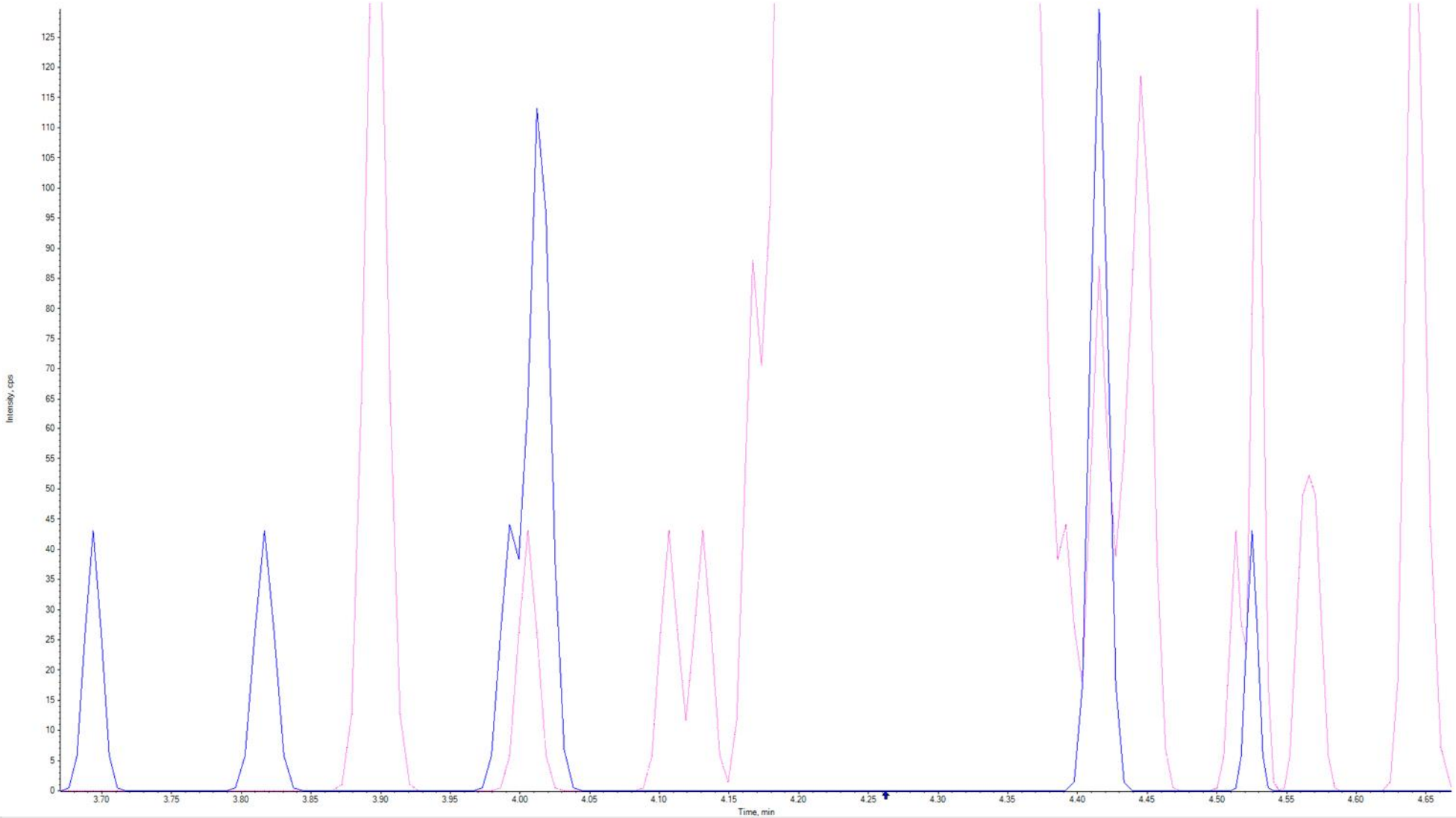

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NMeFOSE
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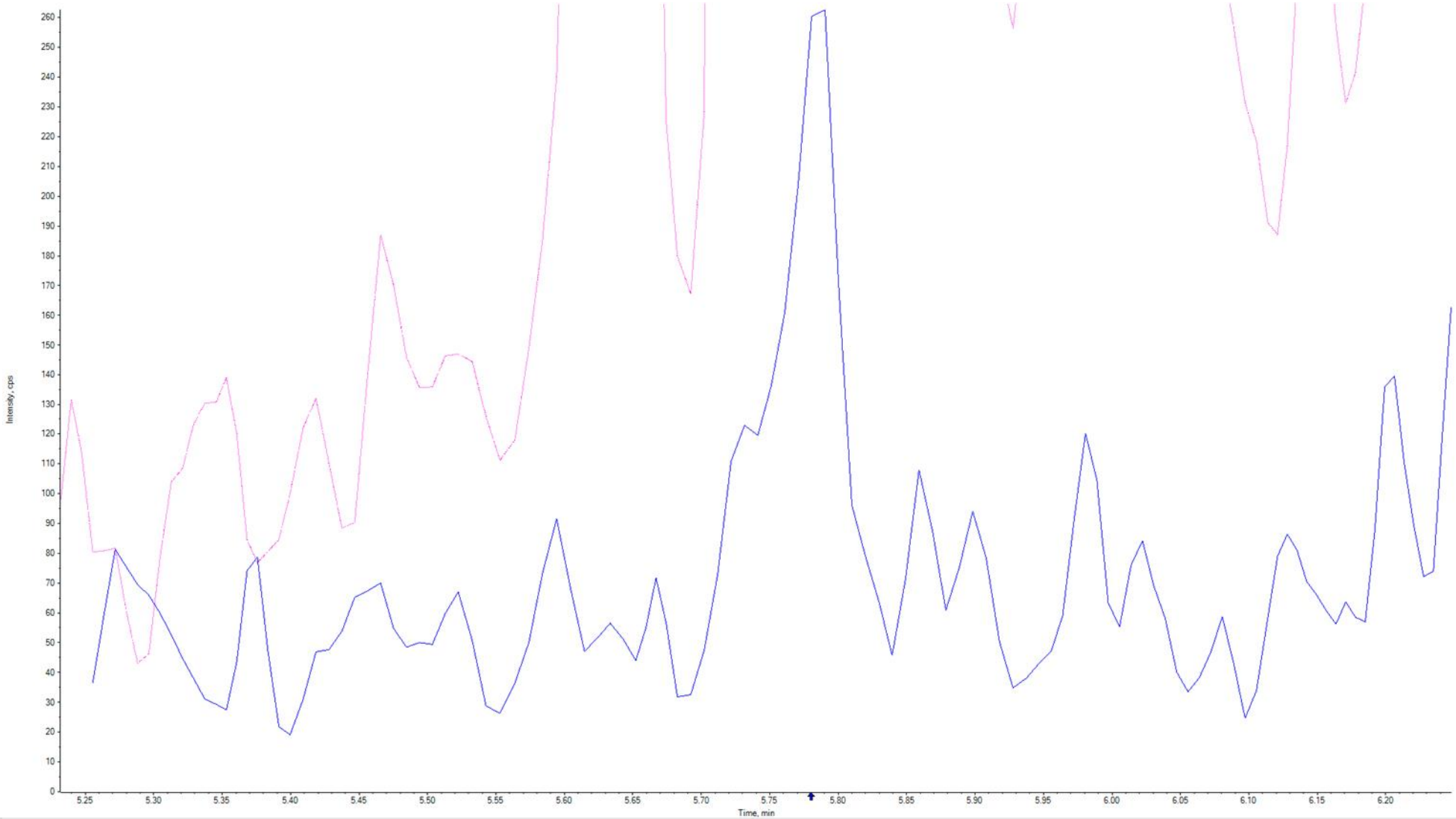

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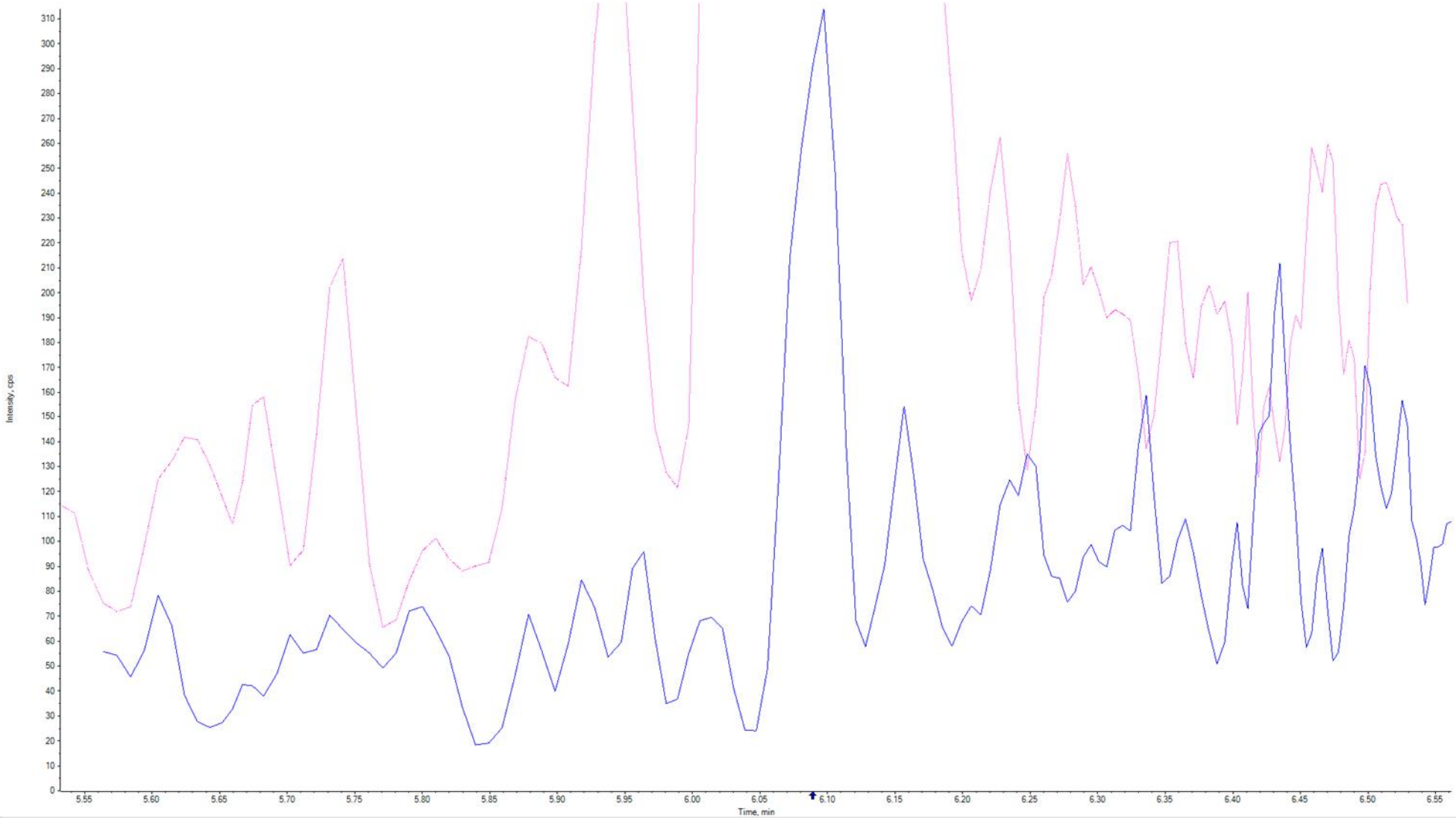

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HFPO-DA
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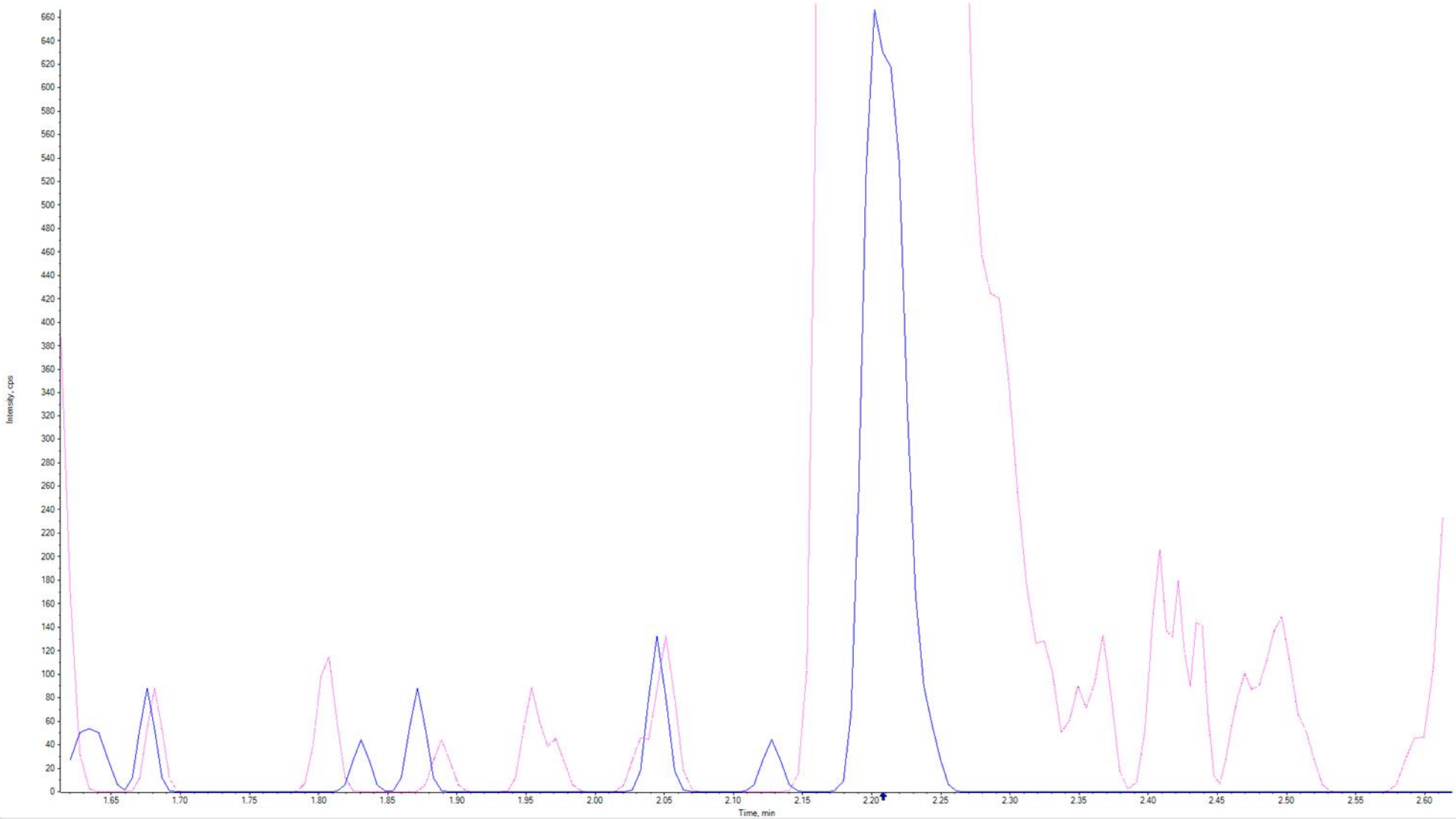

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HFPO-DA_2
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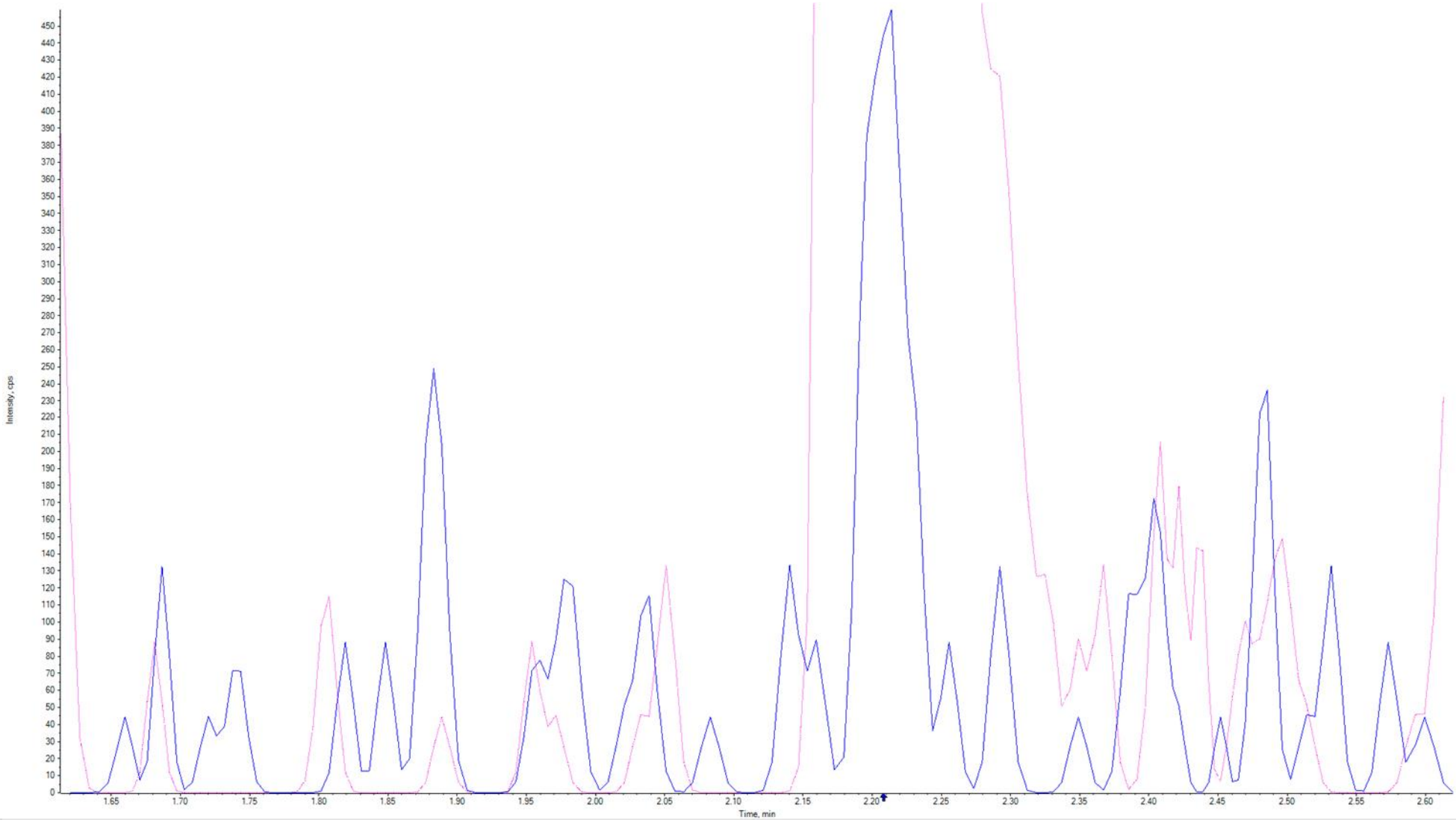

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ADONA
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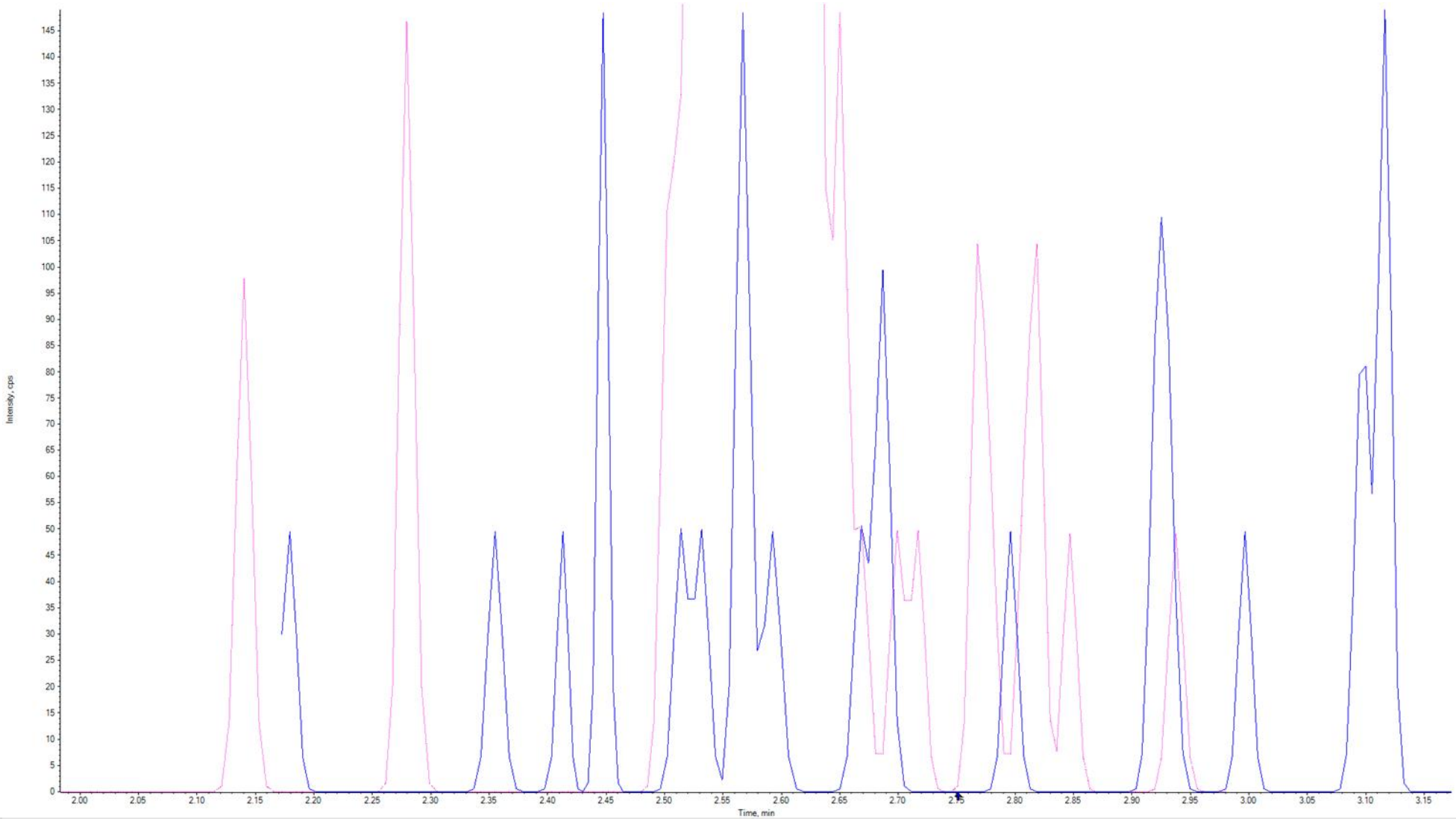

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ADONA_2
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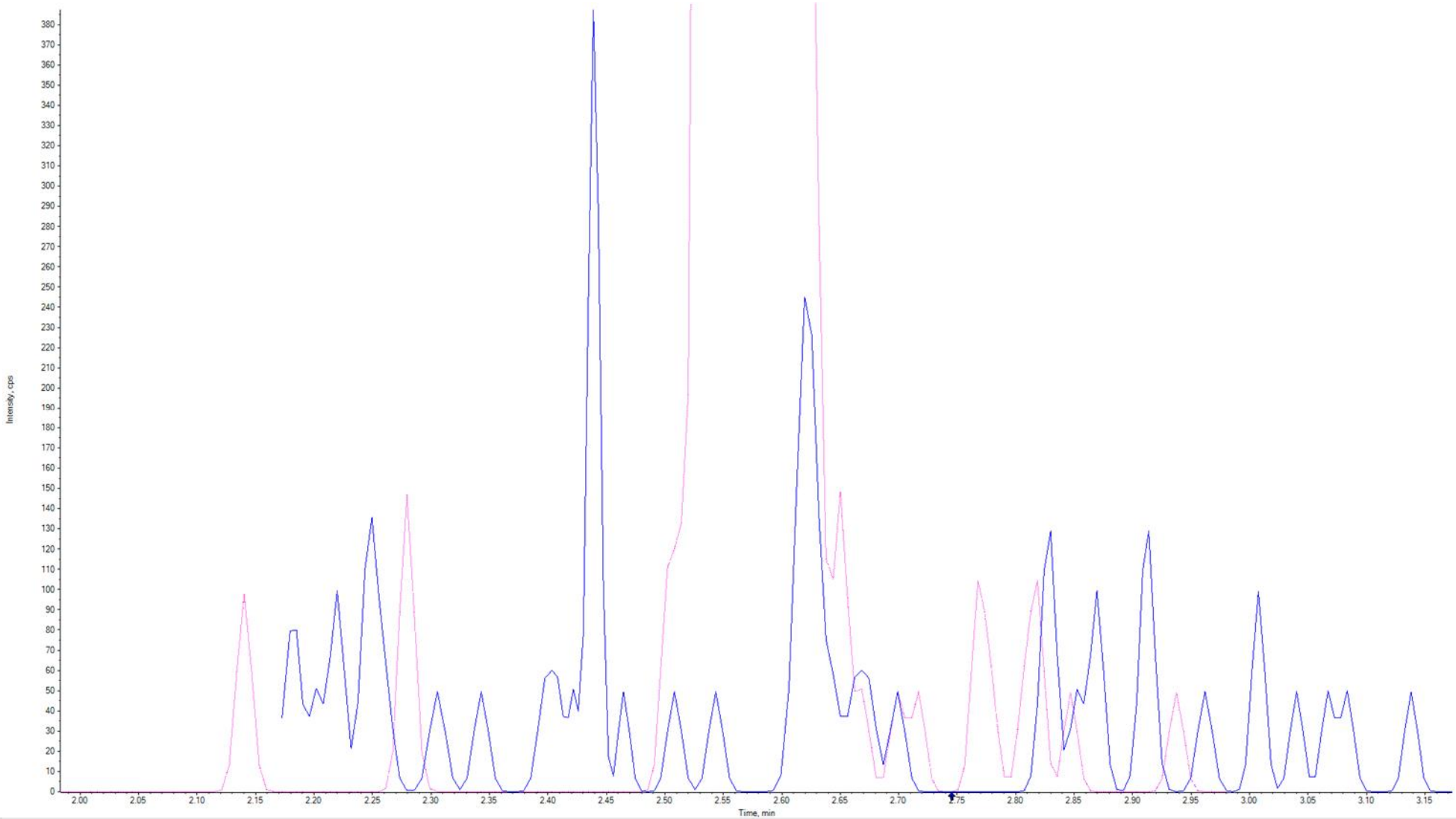

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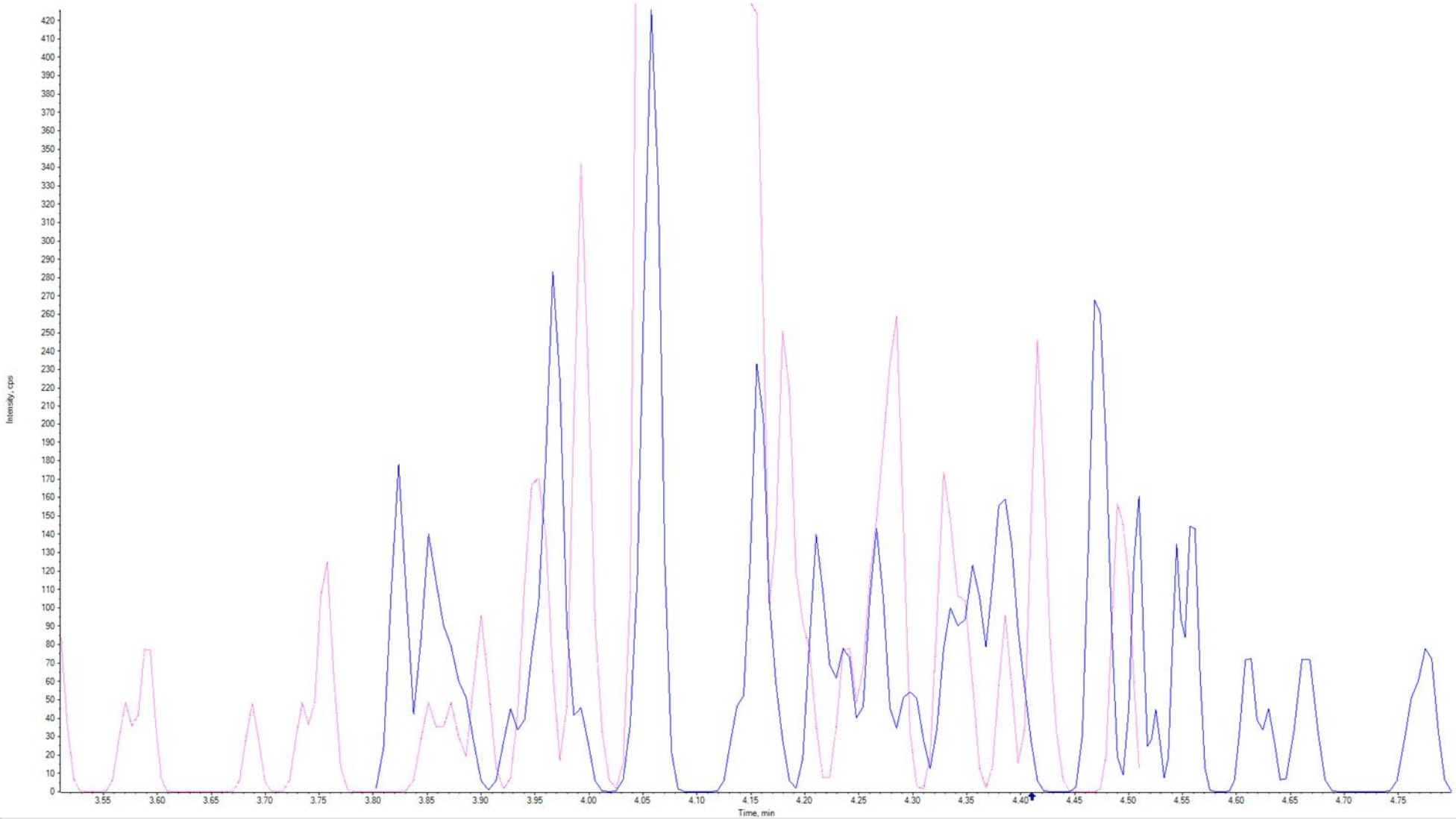
9Cl-PF3ONS
Sample: L2470744-03 S/N:N/A Points Across peak:N/A



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9Cl-PF3ONS_2
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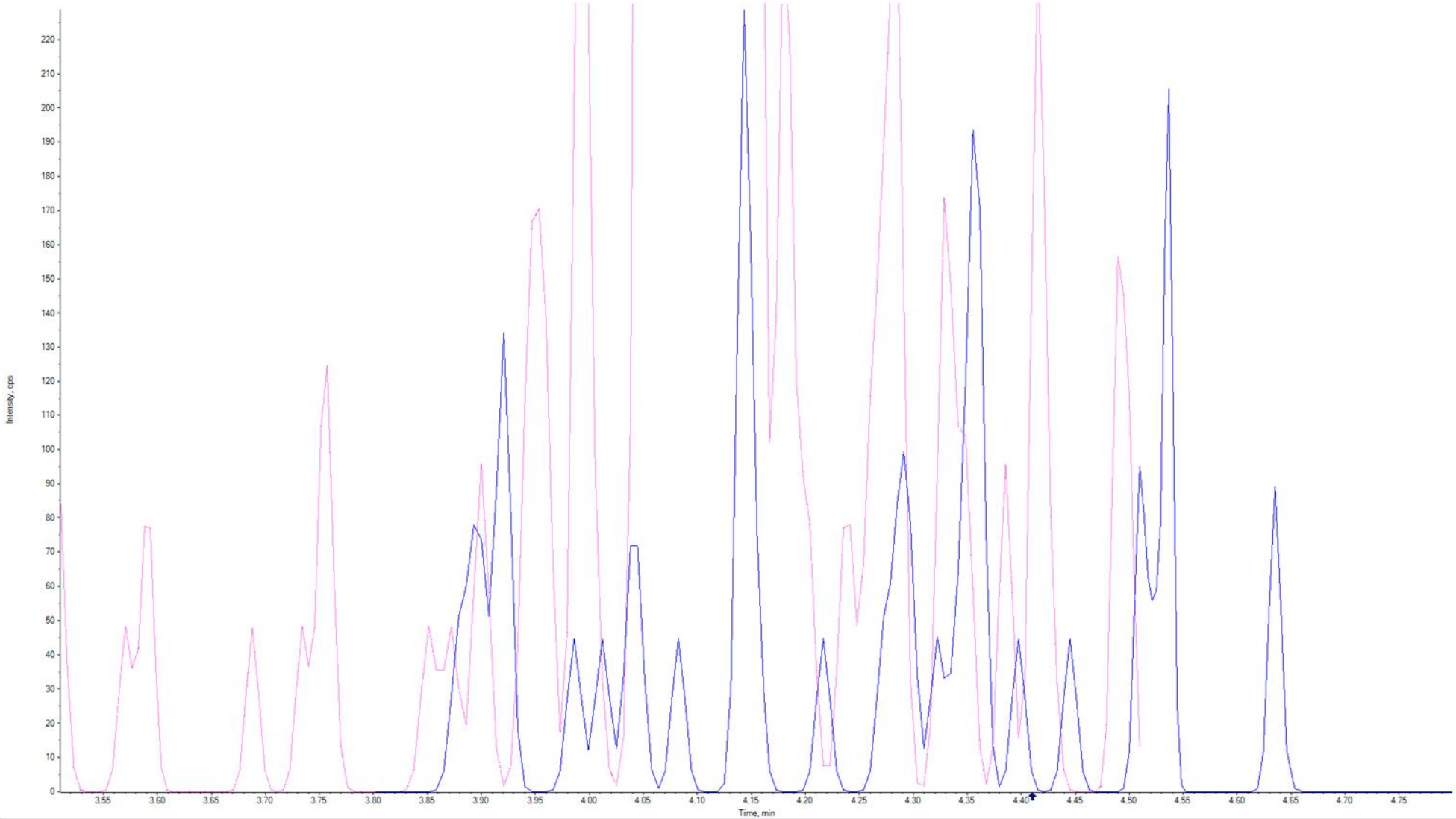

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11Cl-PF3OUdS
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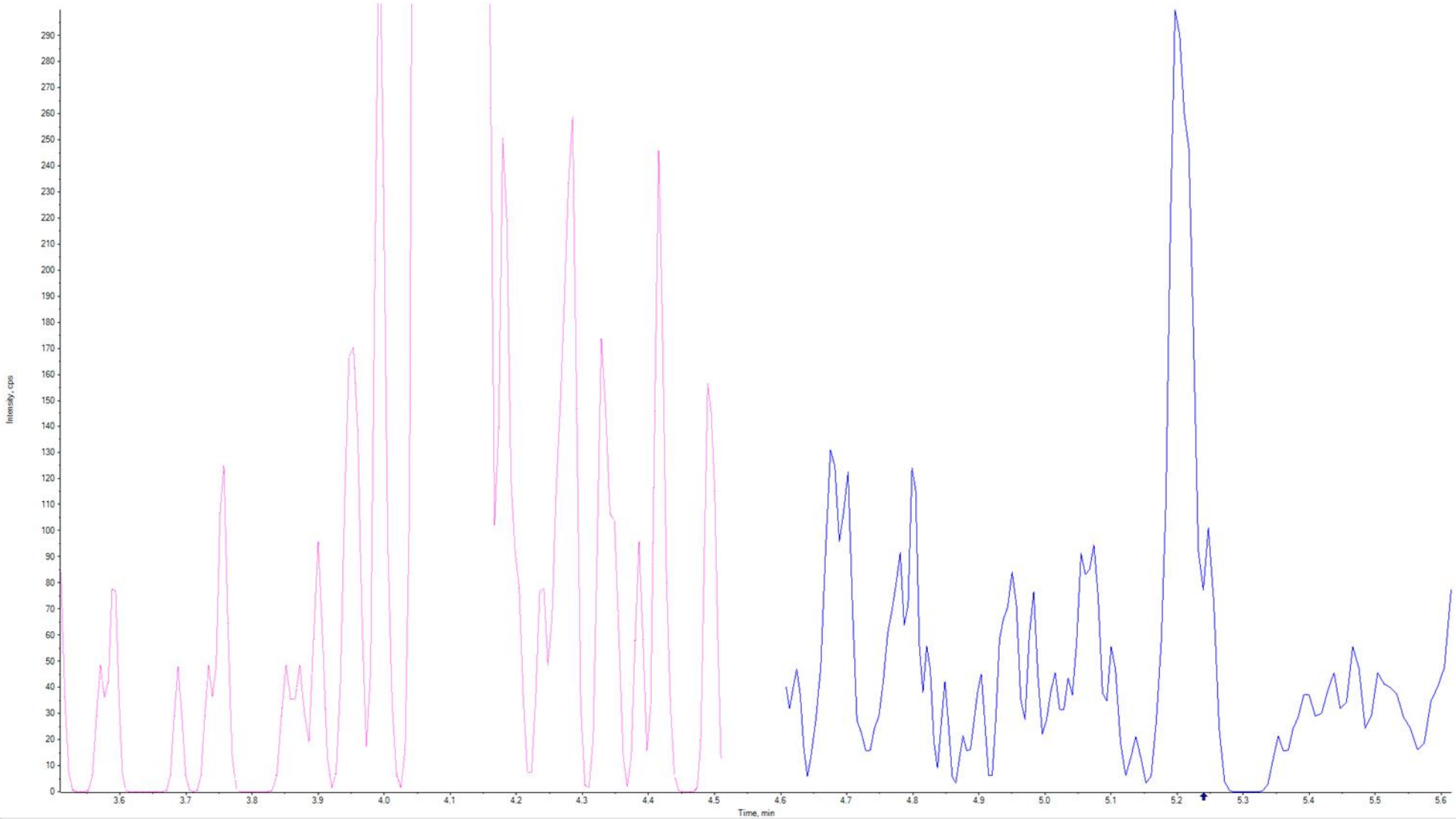

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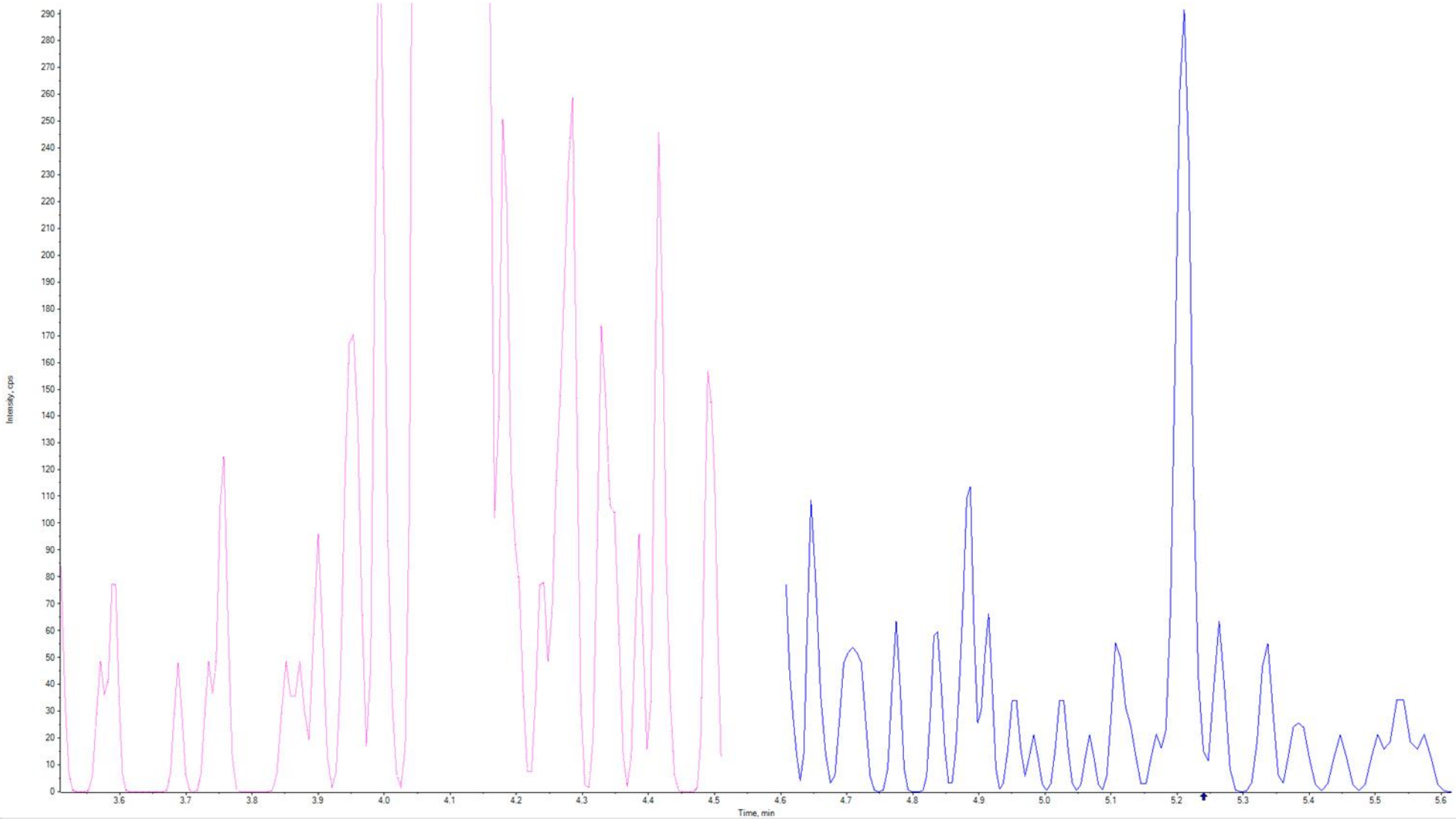

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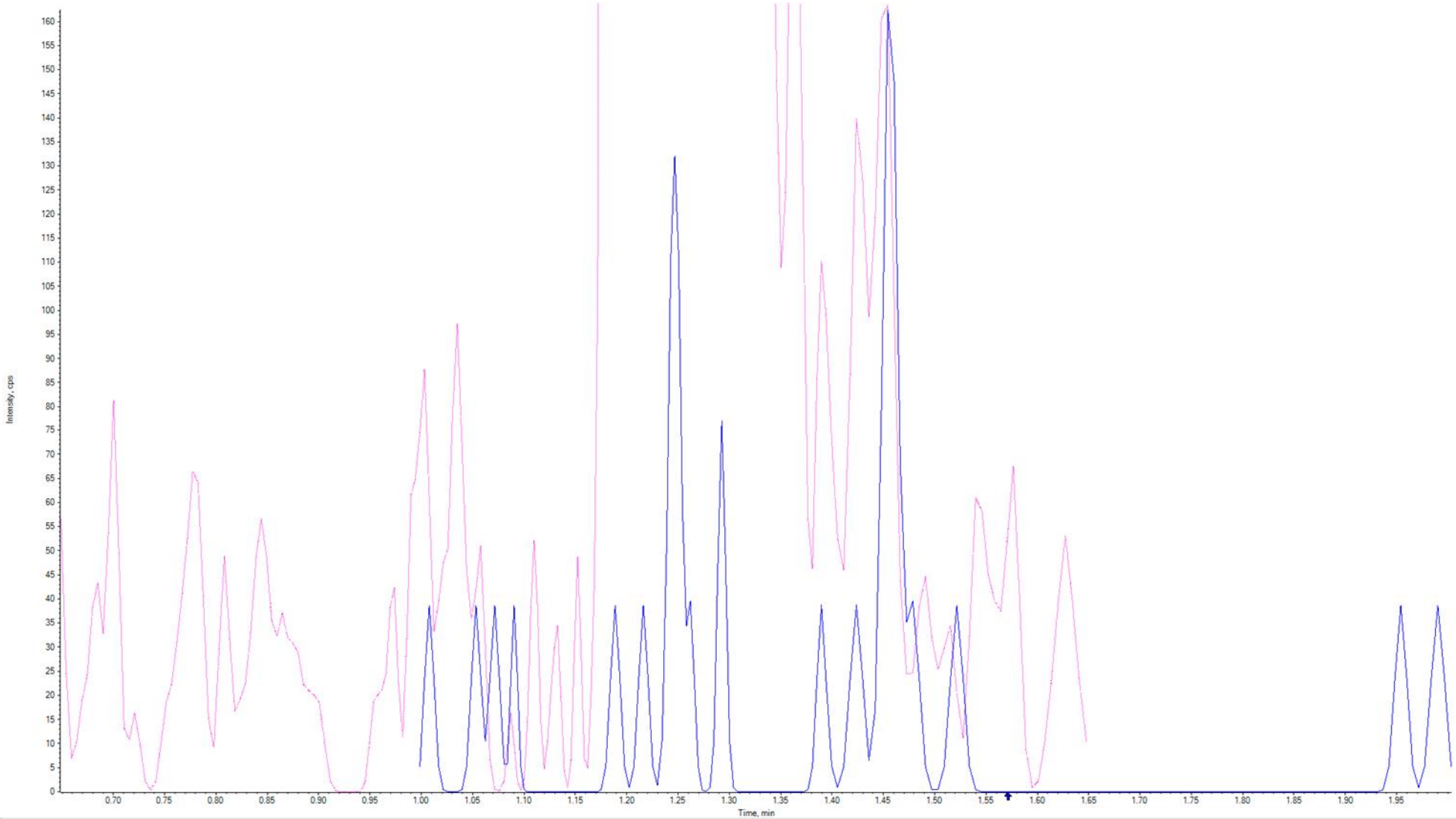

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3:3FTCA_2
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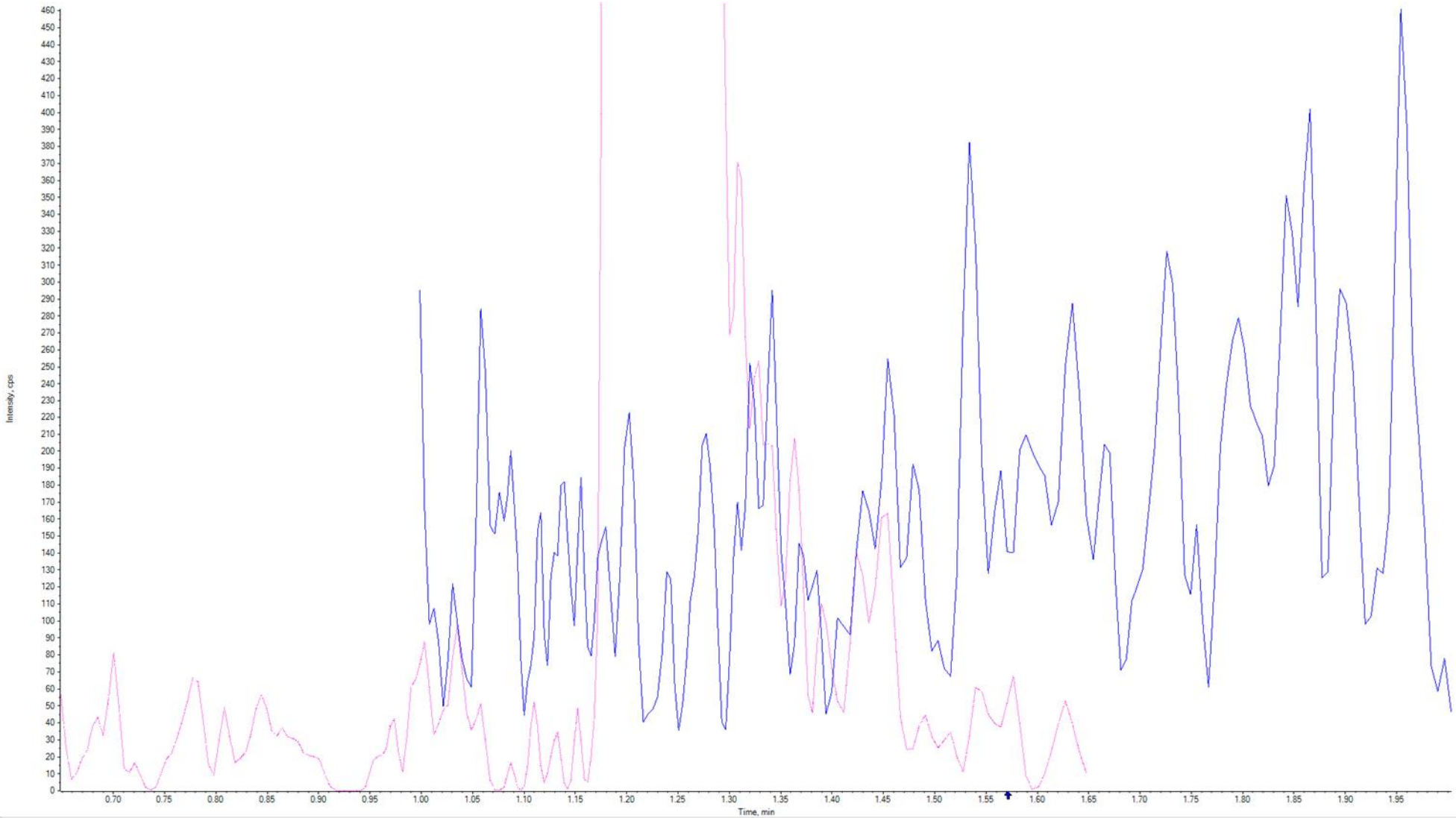

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5:3FTCA
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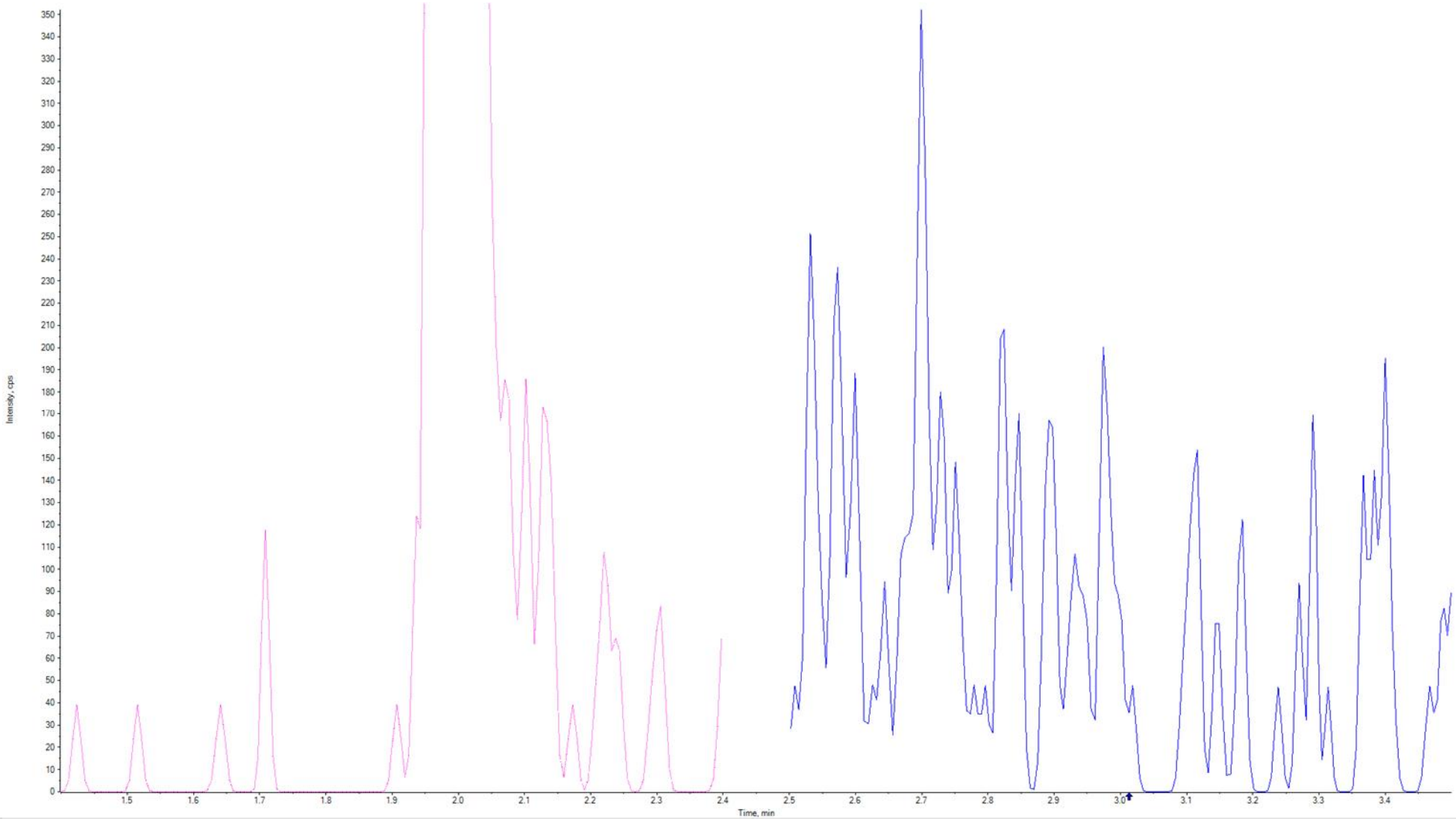

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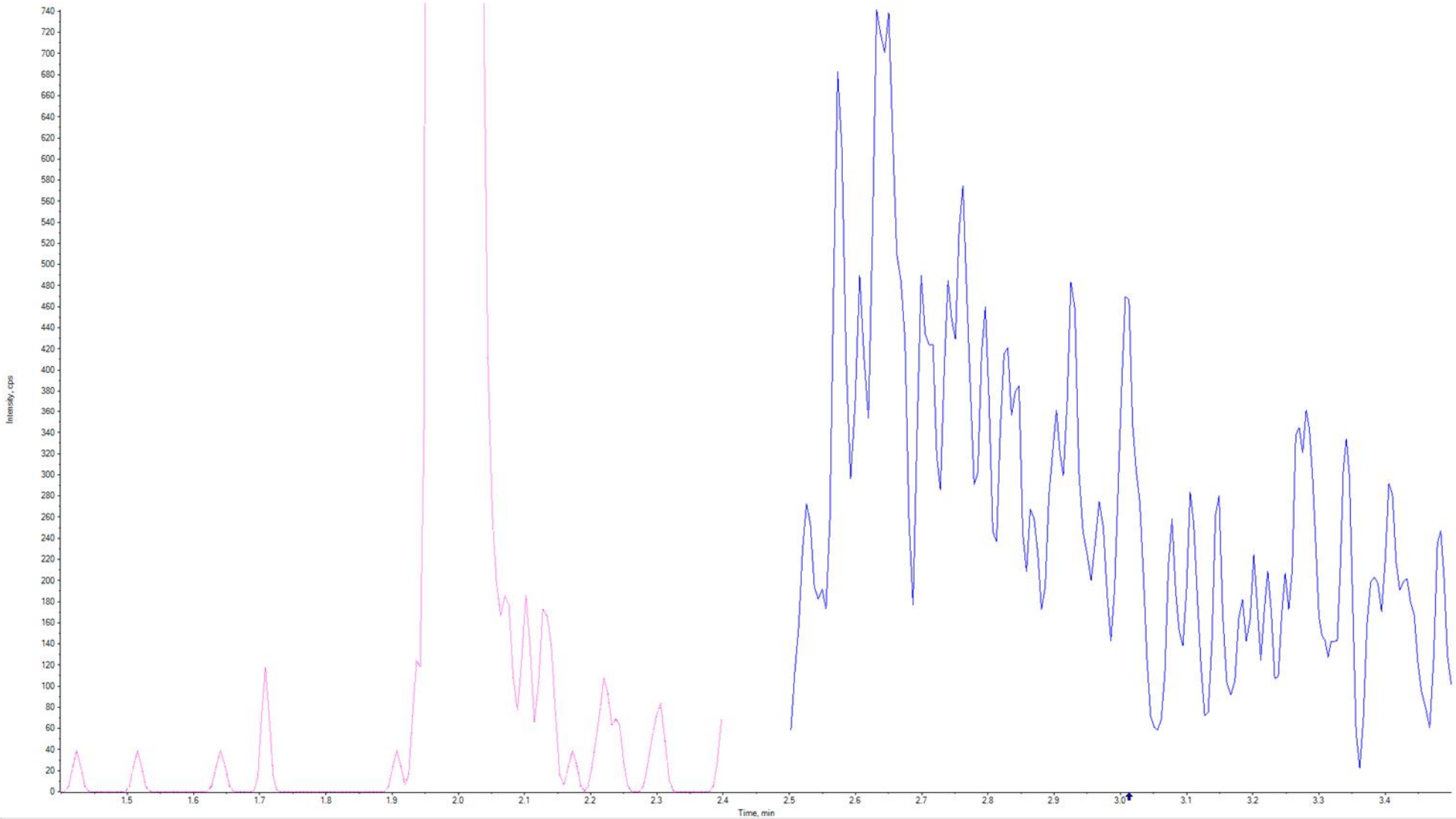

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7:3FTCA
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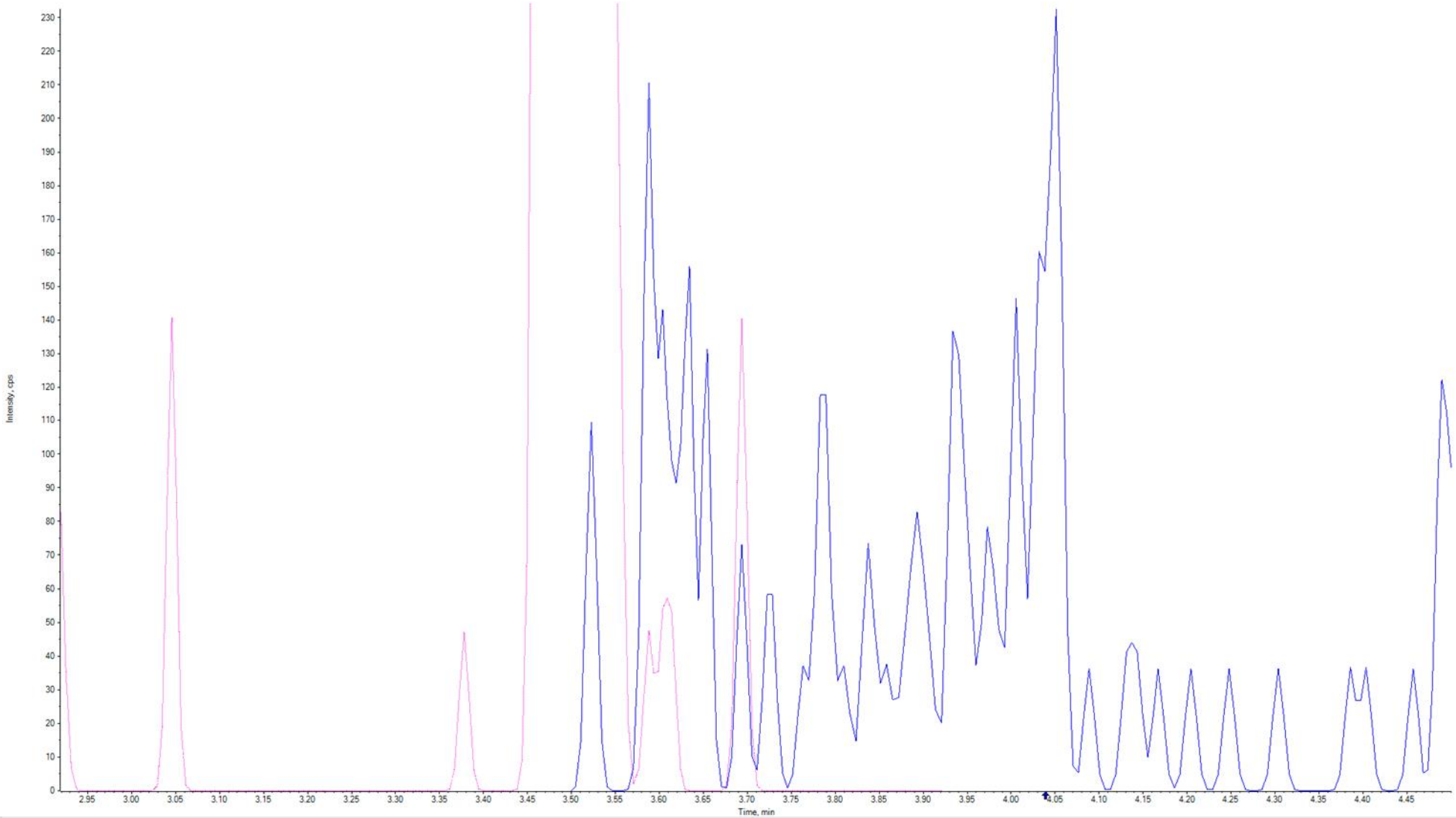

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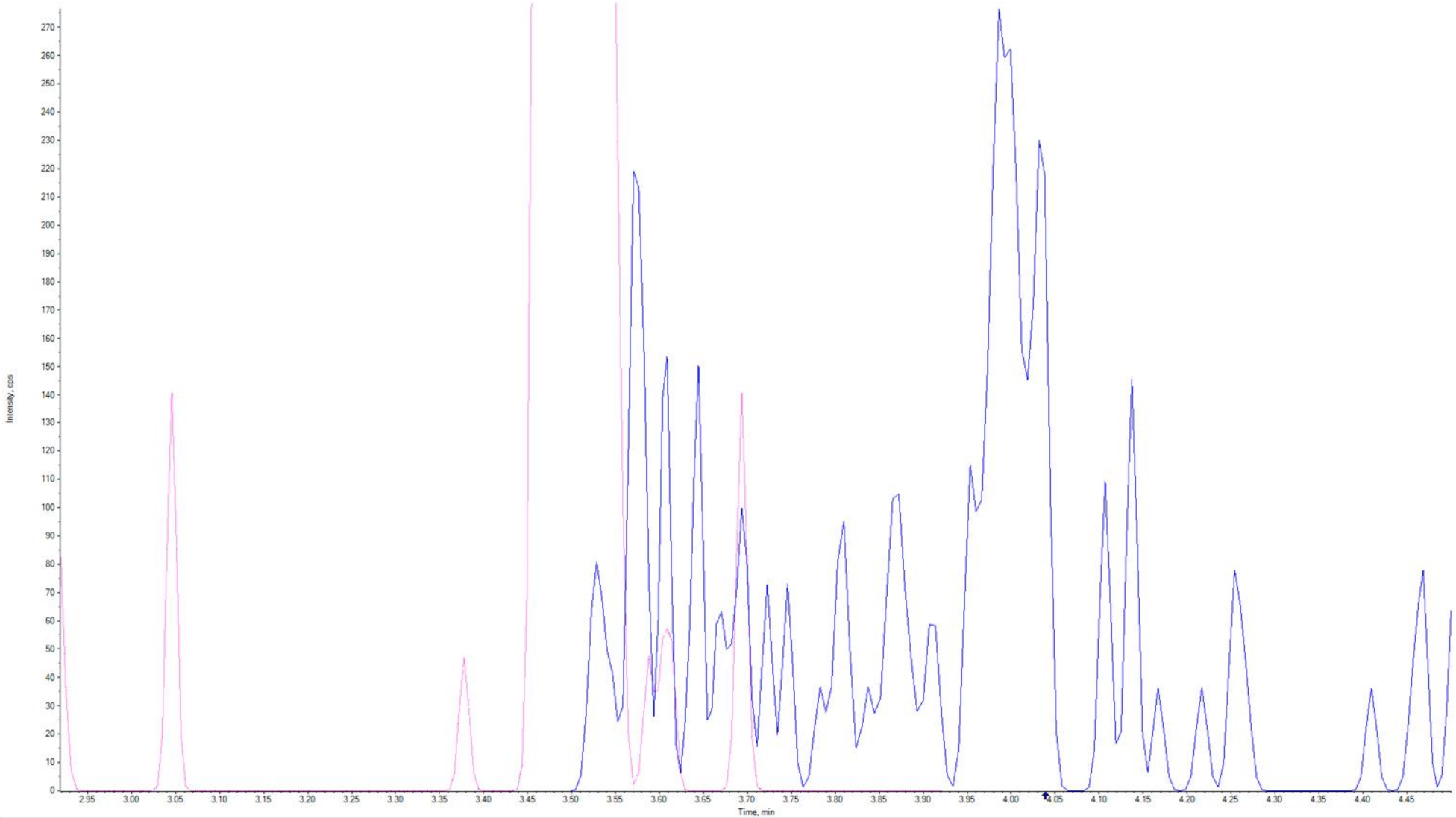

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Generated: 12/20/2024 10:43:43 AM

PFEESA
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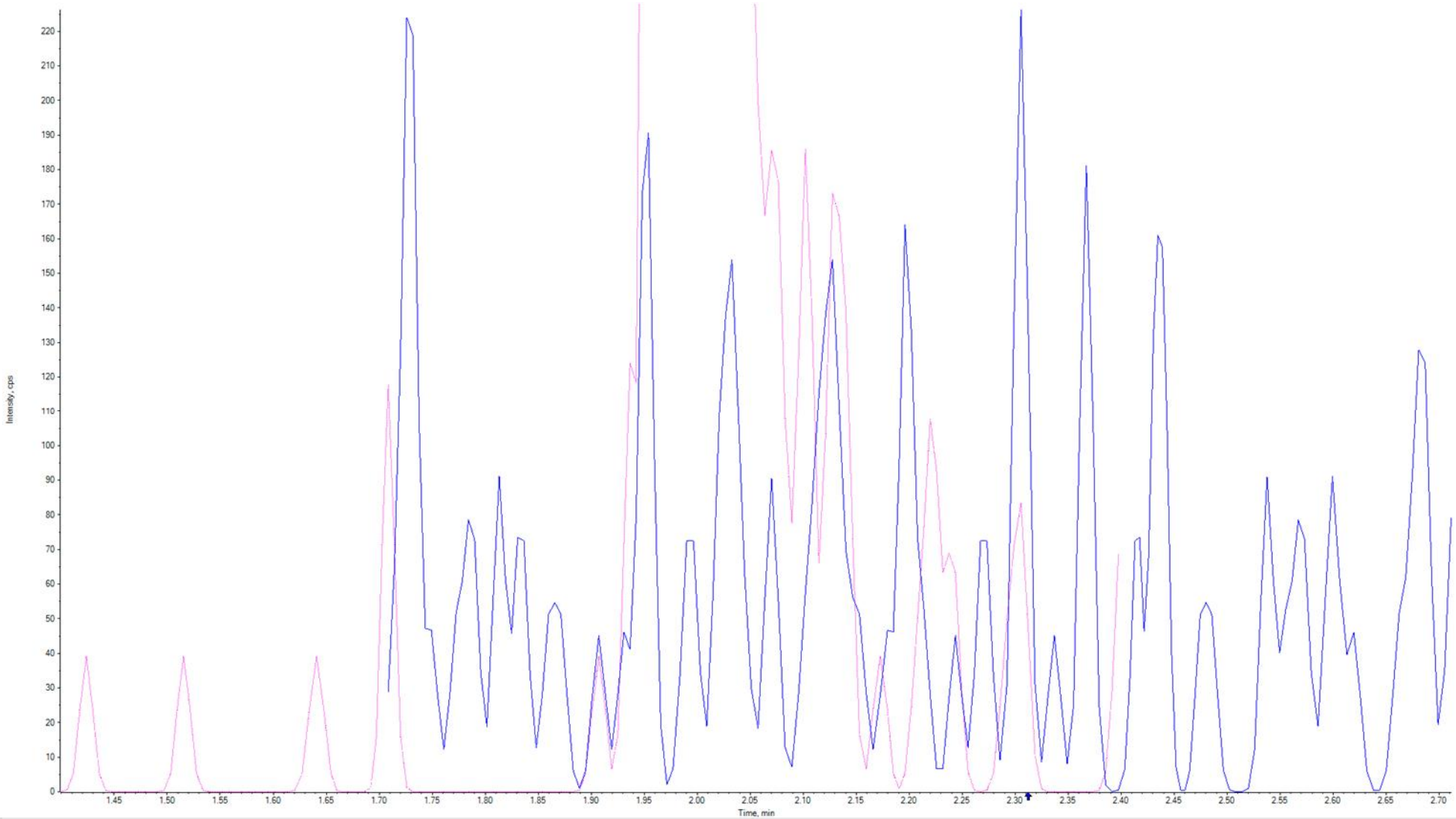

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PFEESA_2
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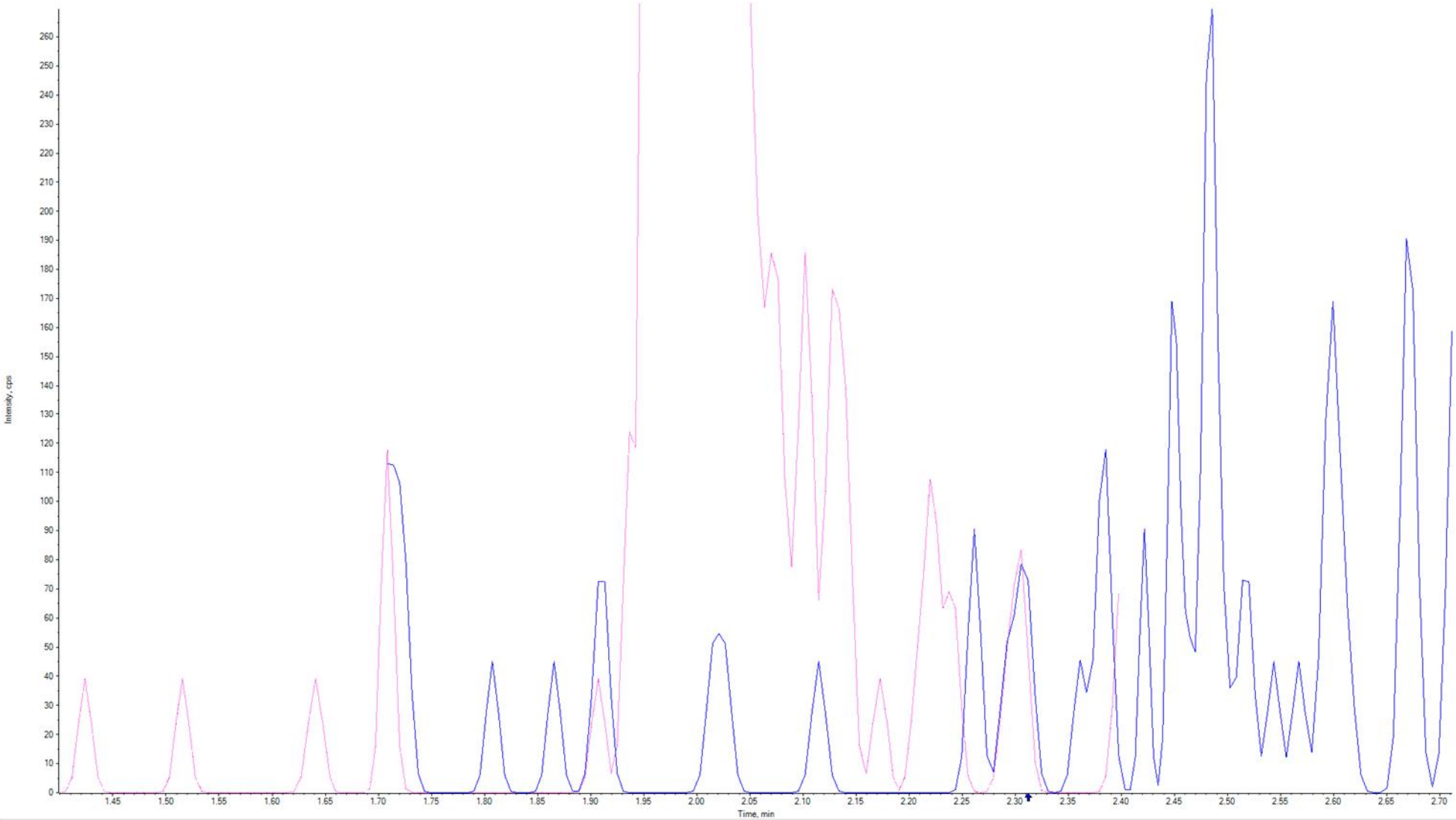

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Generated: 12/20/2024 10:43:43 AM

PFMPA
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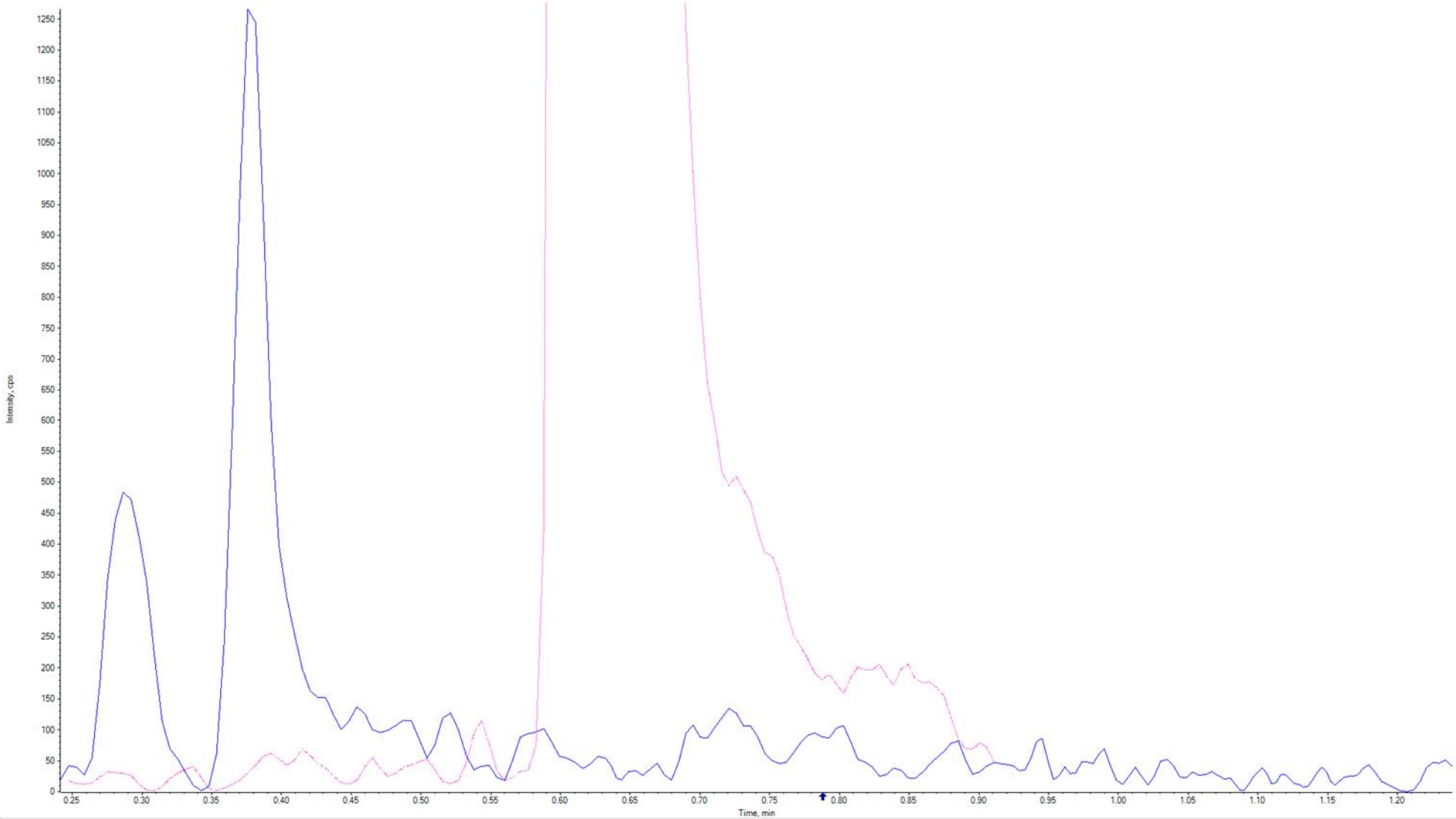

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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PFMBA
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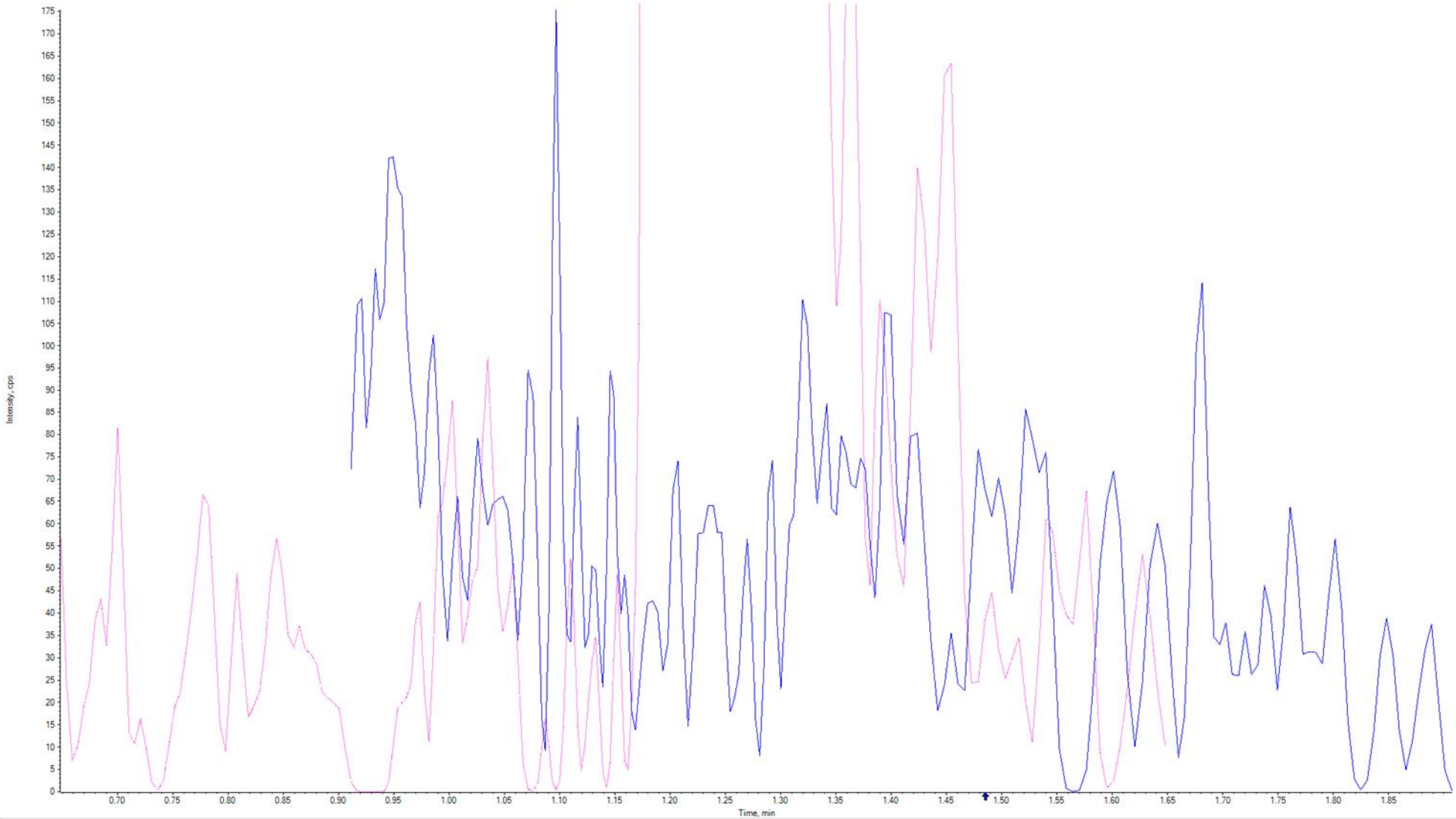

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NFDHA
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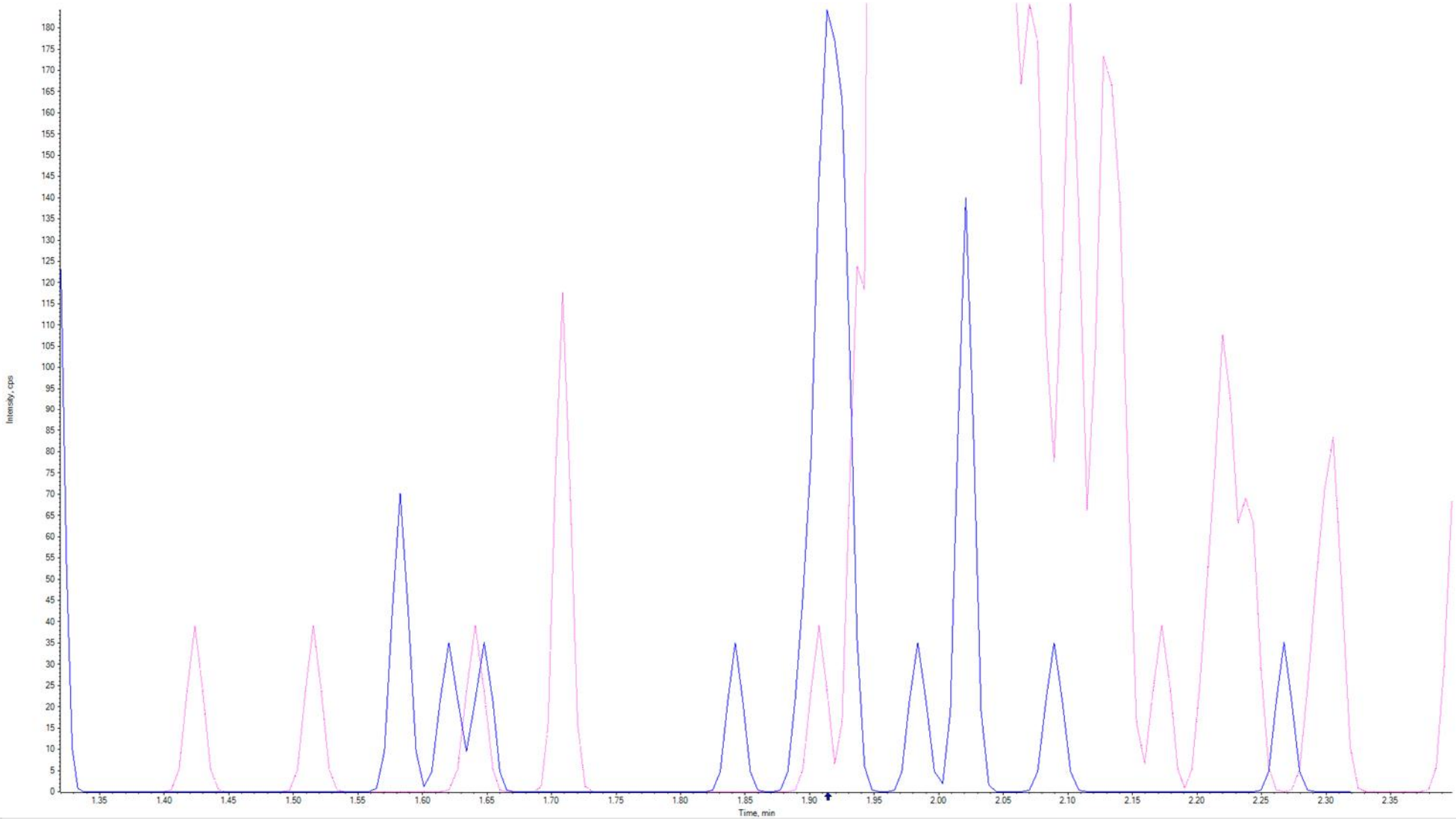

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NFDHA_2
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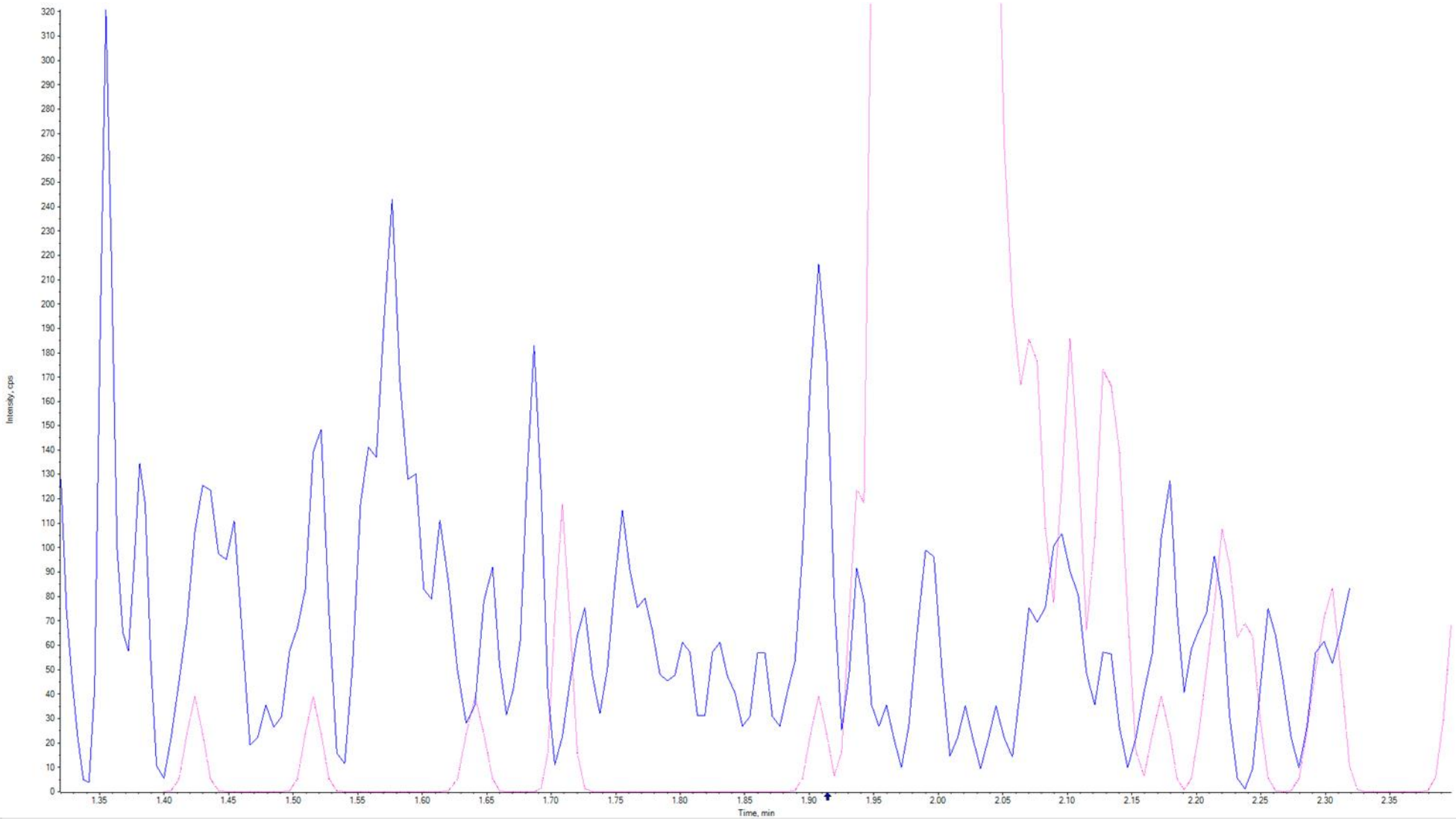

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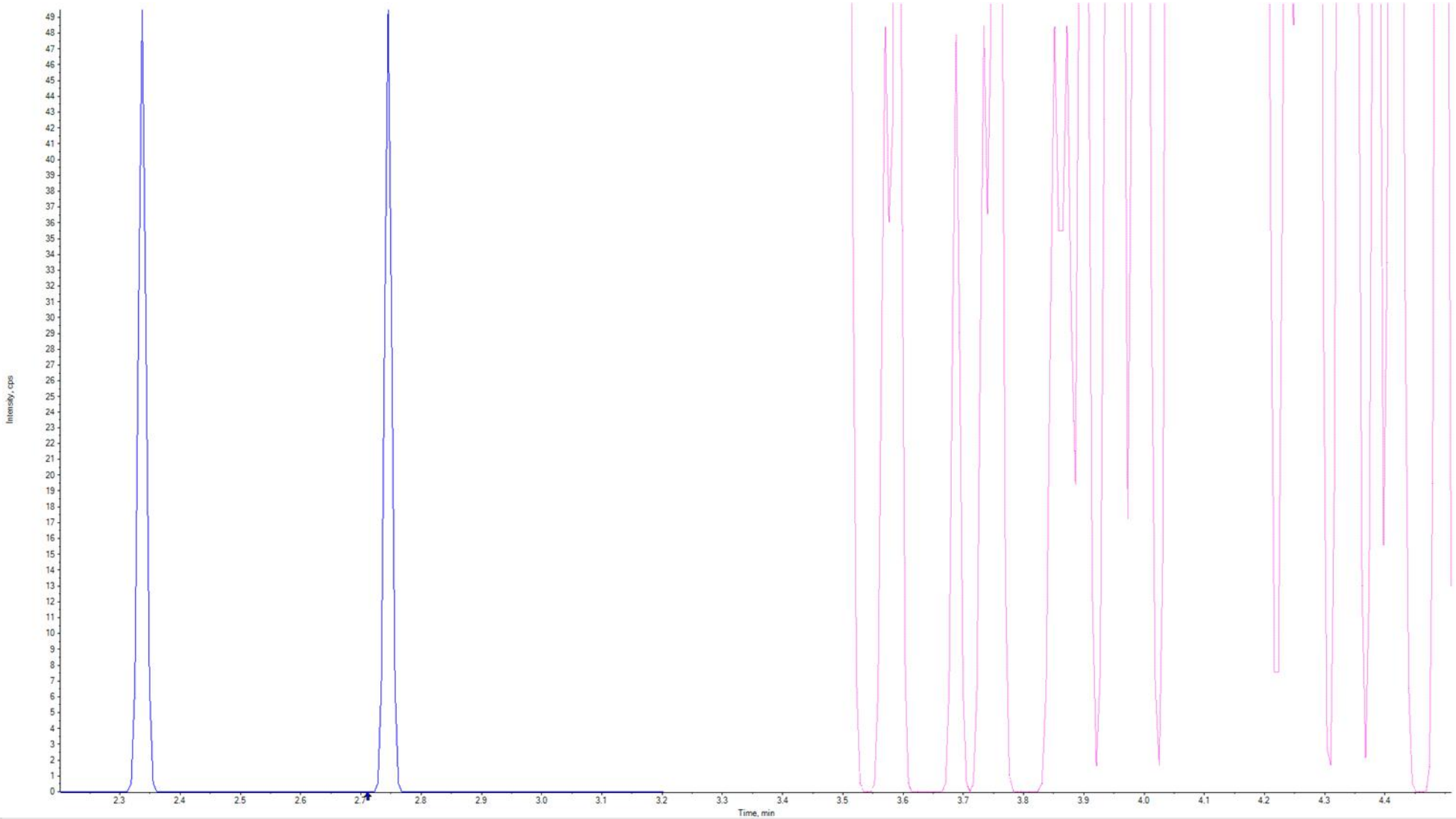
Generated: 12/20/2024 10:43:43 AM

TDCA
Sample: L2470744-03 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_38.wiff2_5
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

TDCA_2
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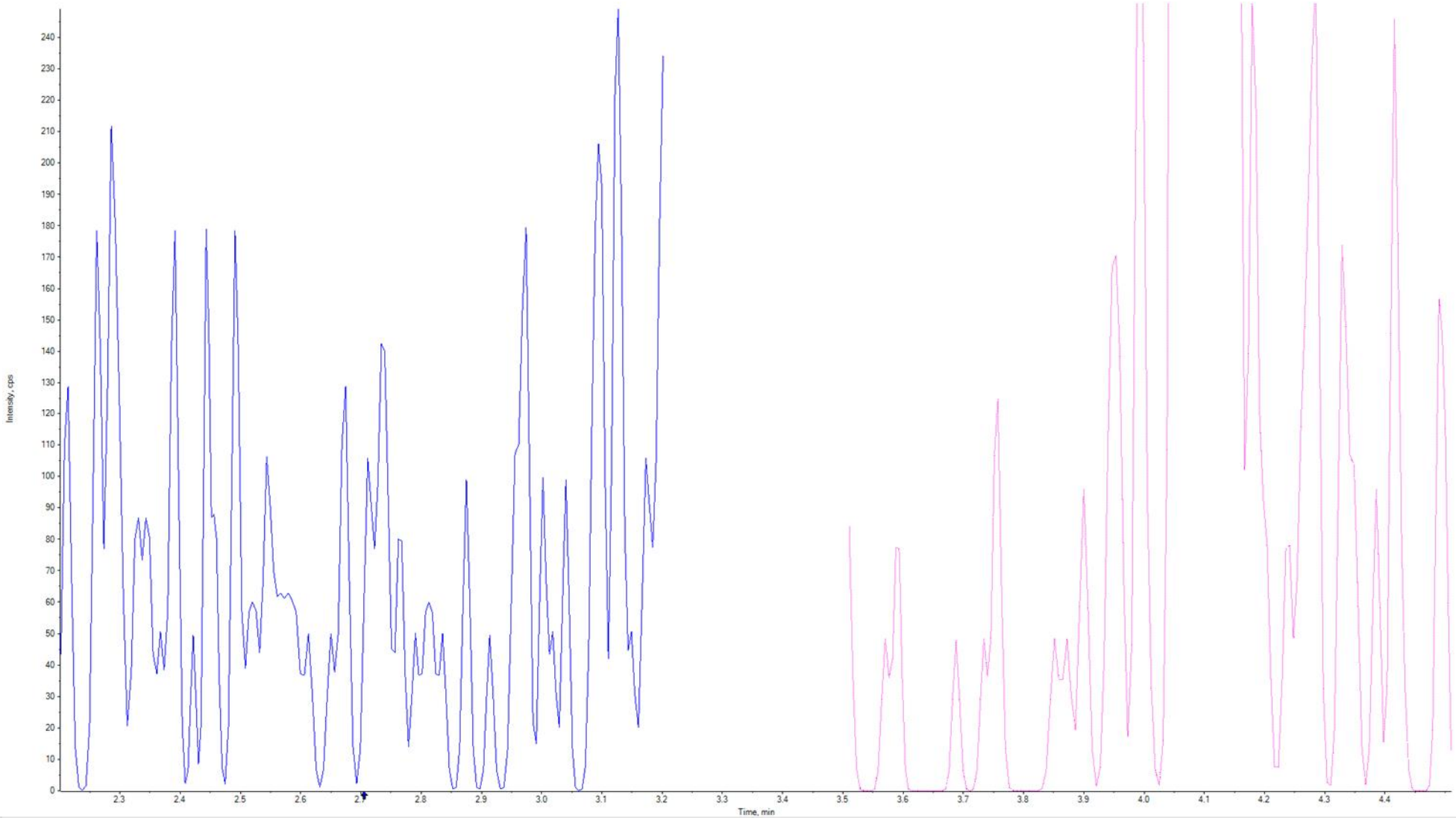

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13C2D4-4:2FTS
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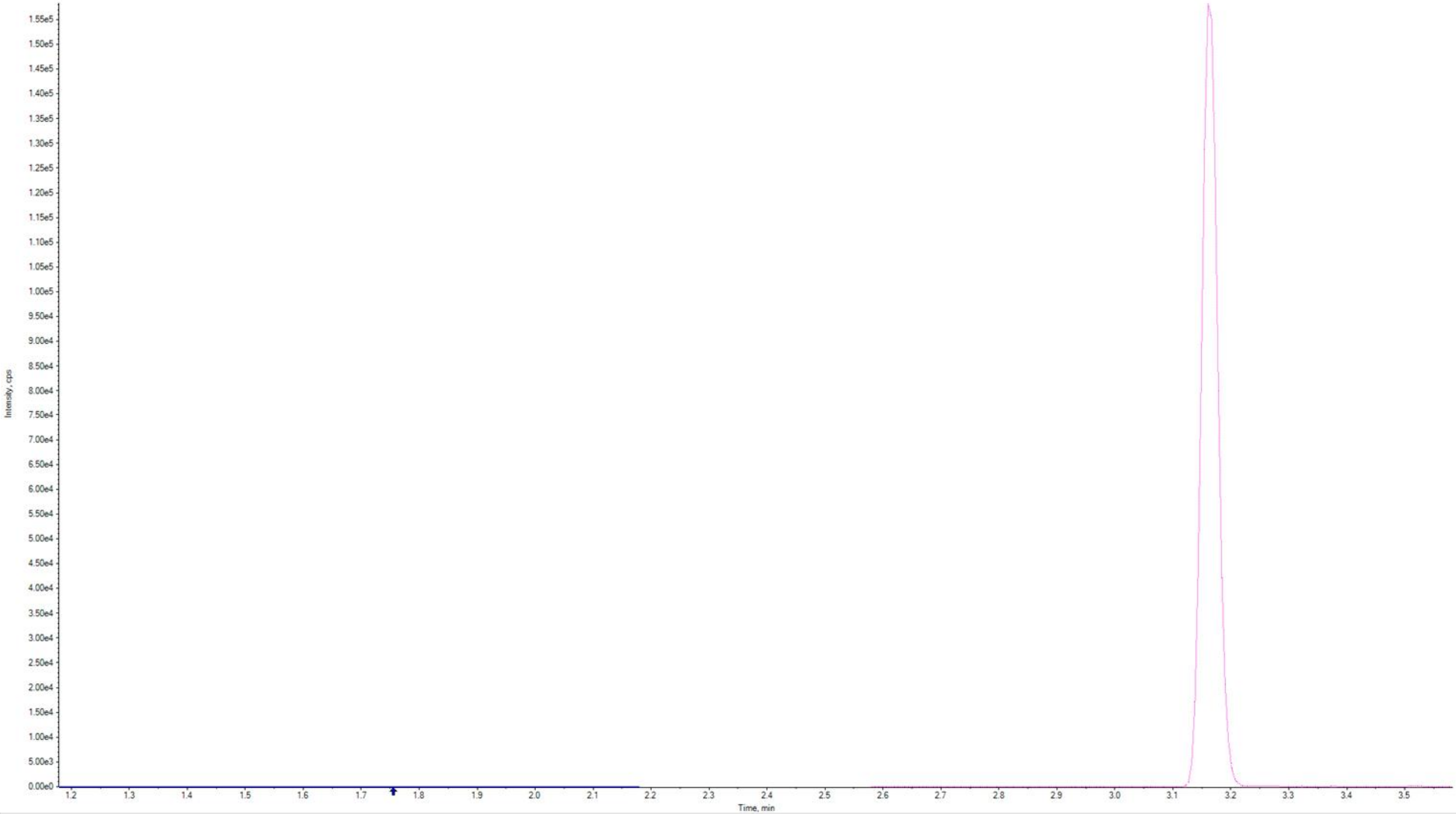

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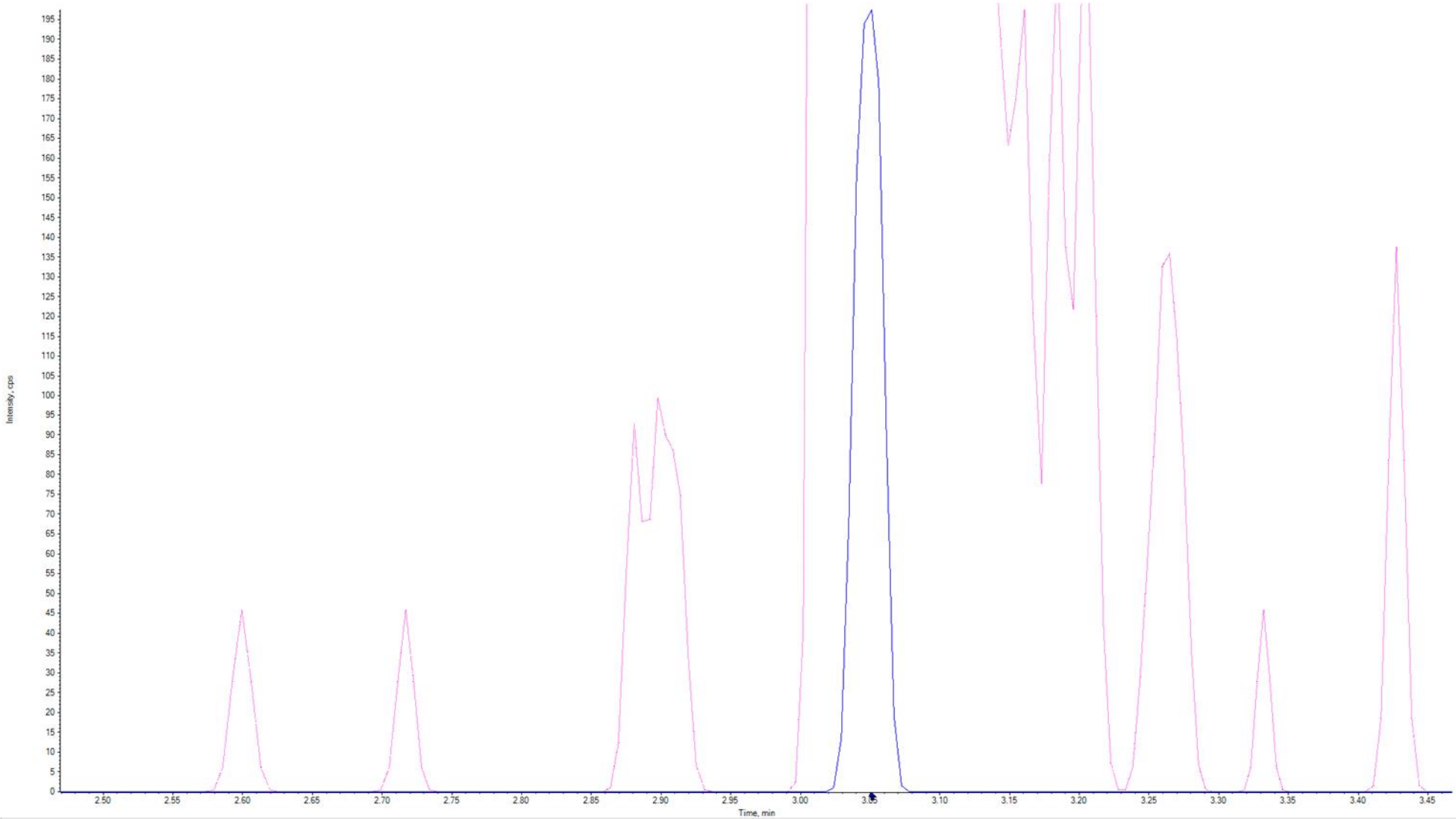
13C2-PFOA
Sample: L2470744-03 S/N:N/A Points Across peak:N/A



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13C4-PFBA
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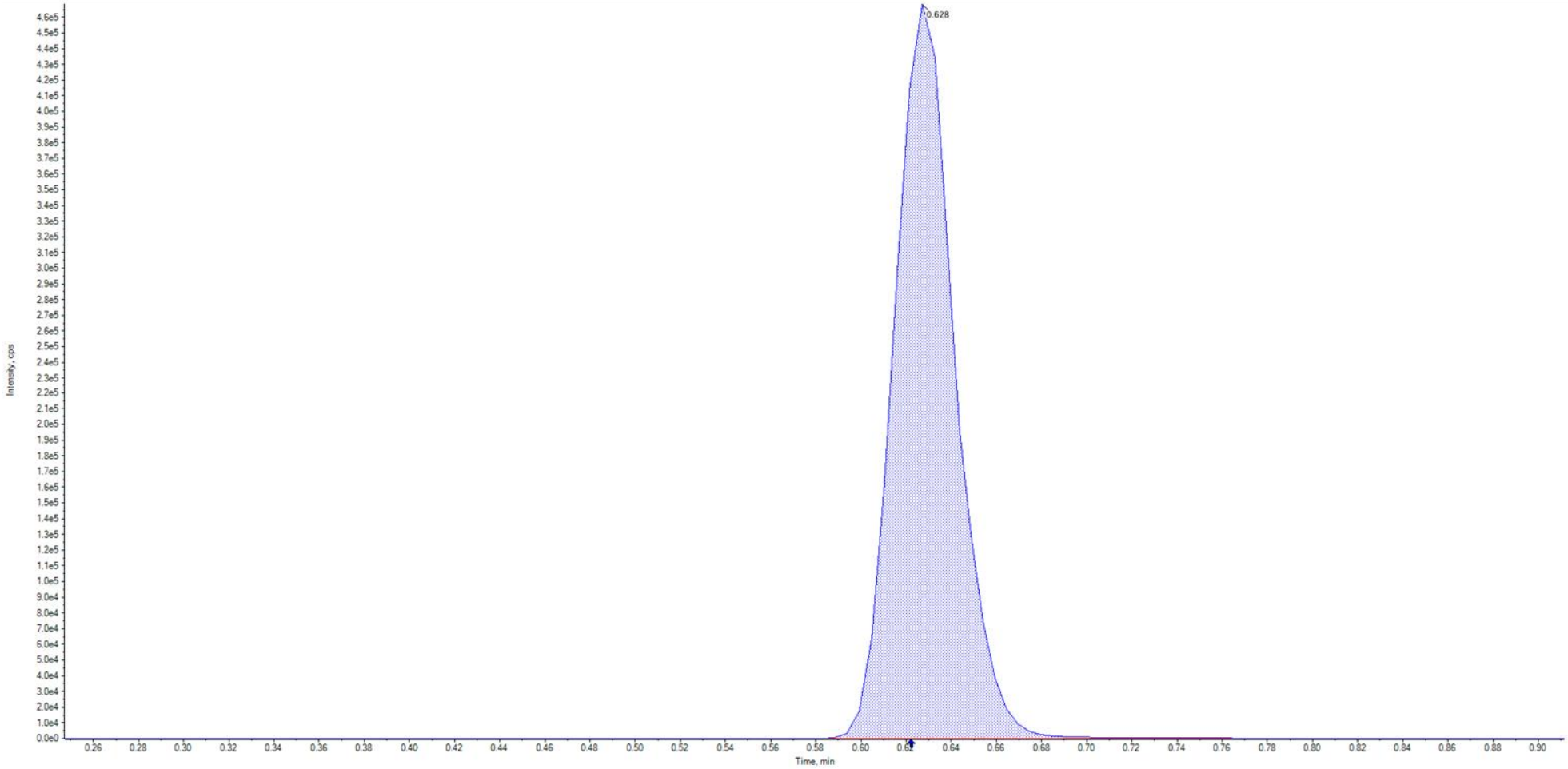

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Alpha Analytical LLC
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13C5-PFPeA
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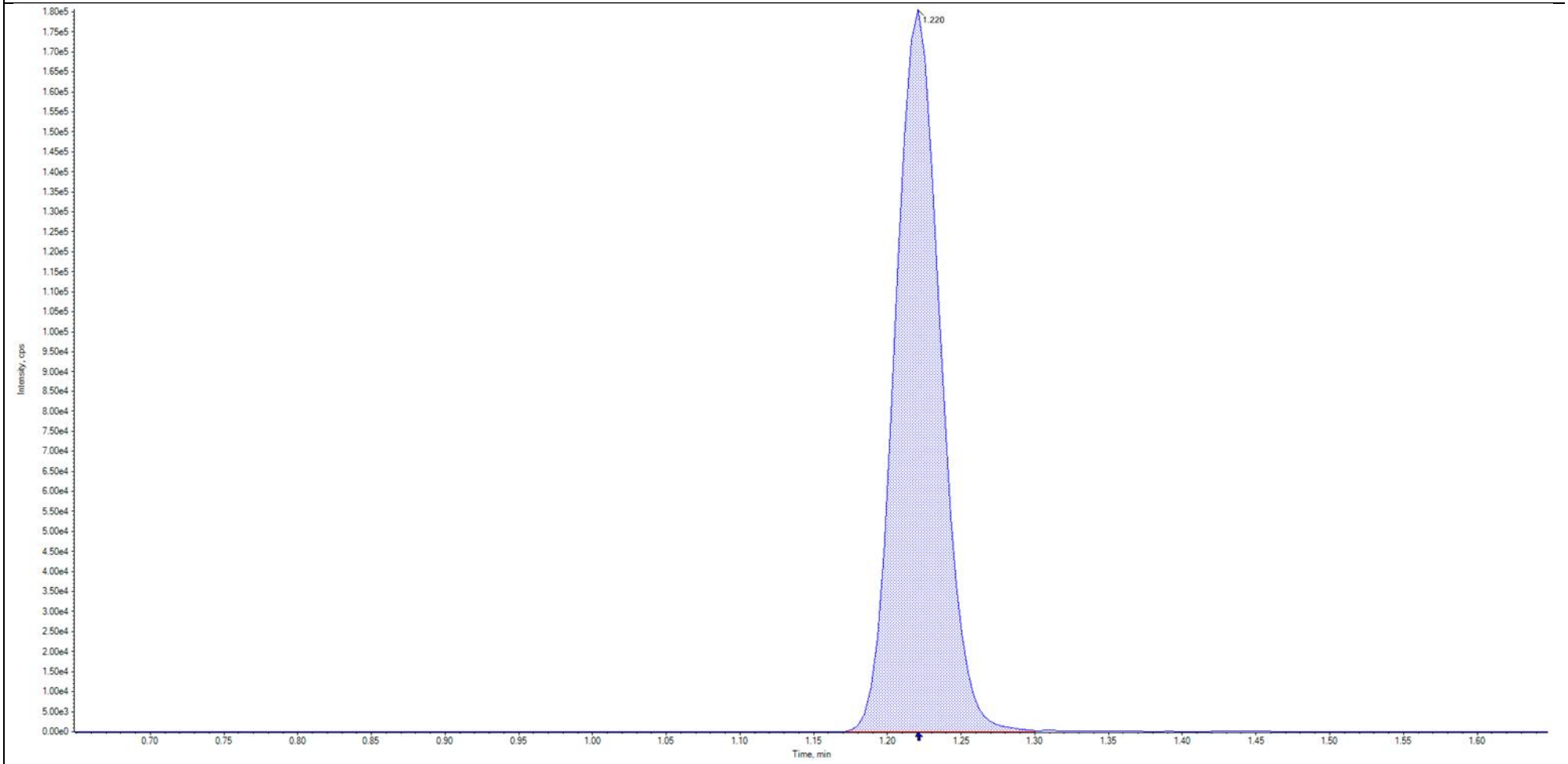

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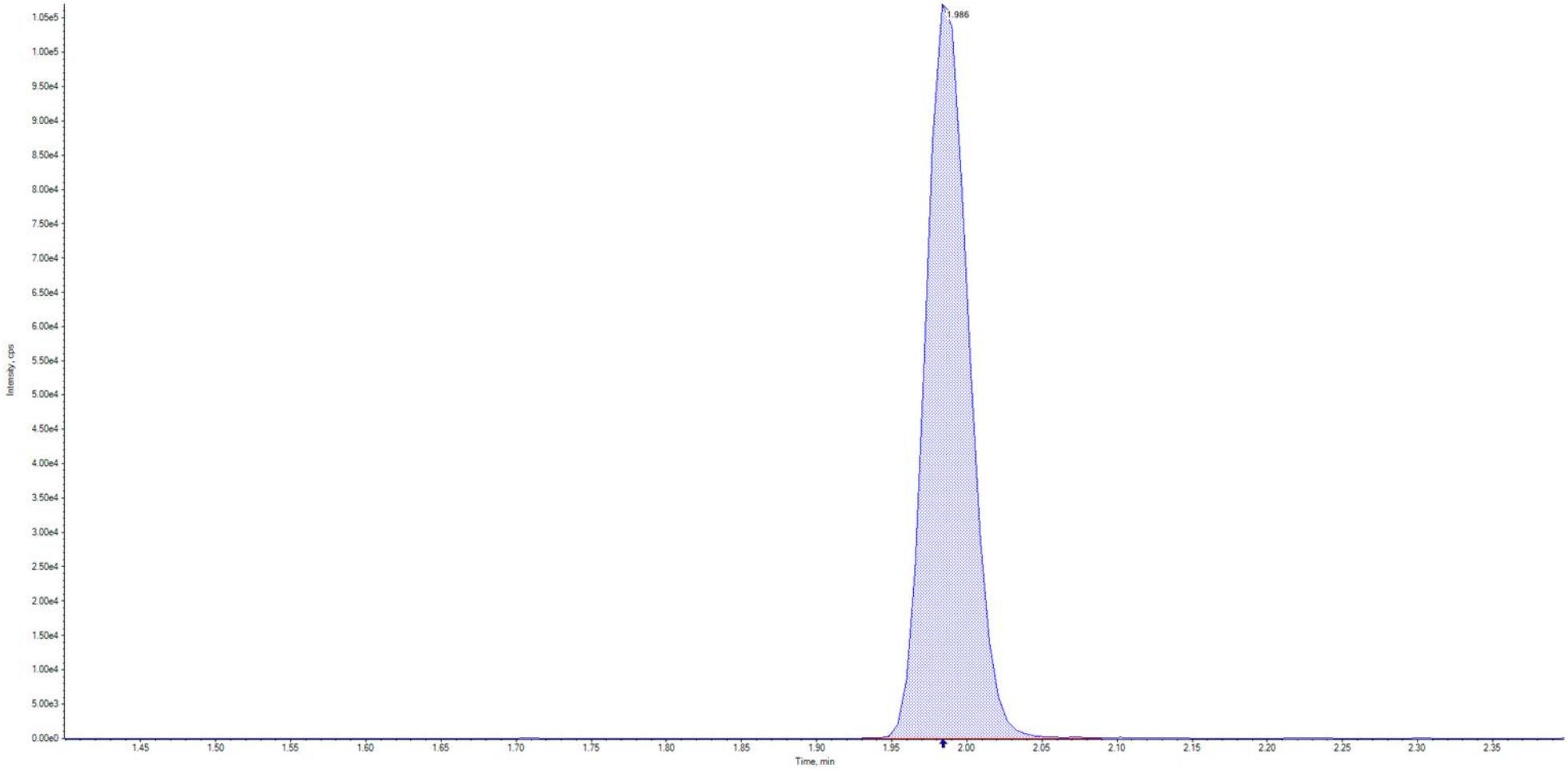
13C5-PFHxA
Sample: L2470744-03



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13C4-PFHpA
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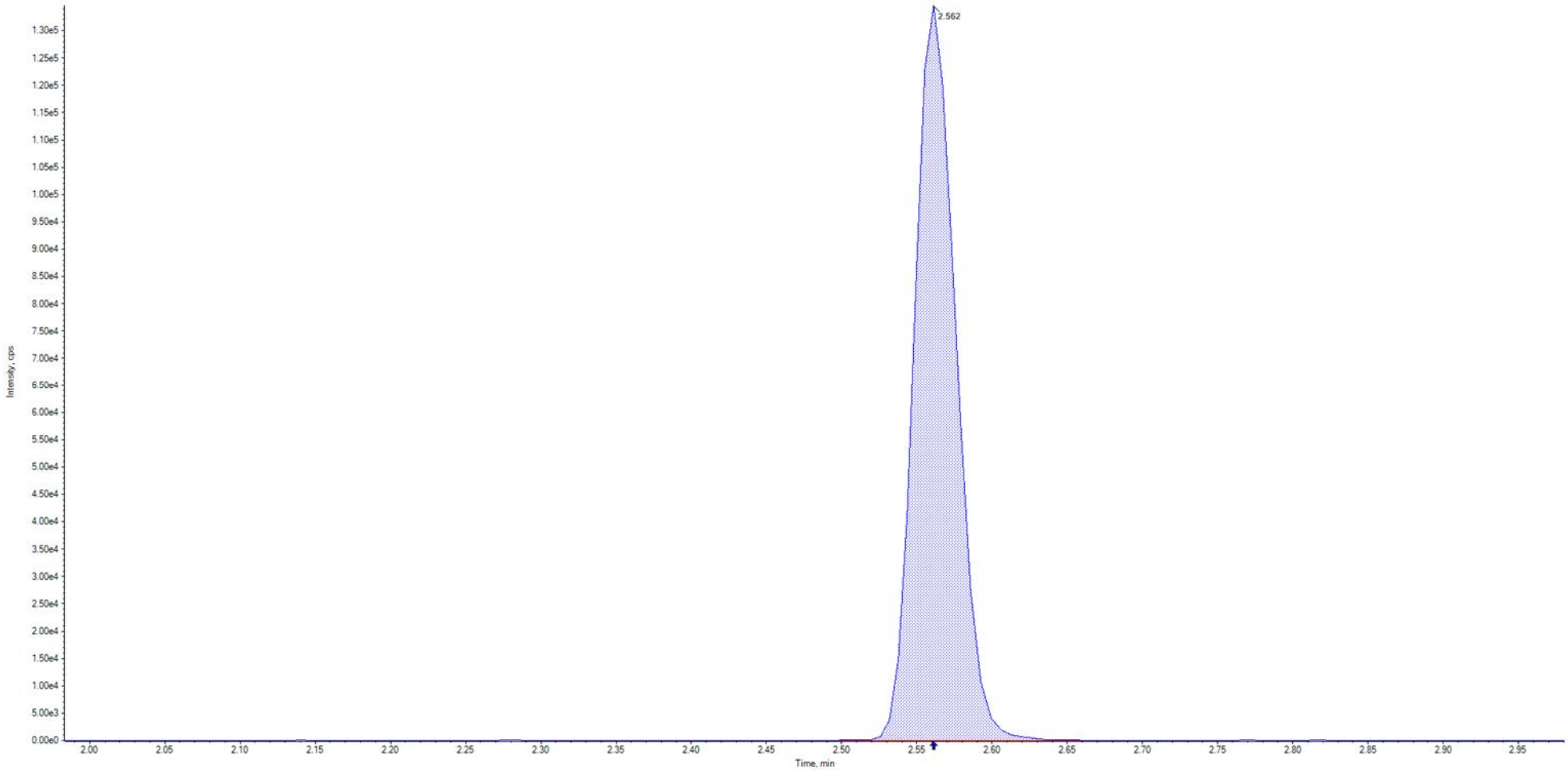

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13C8-PFOA
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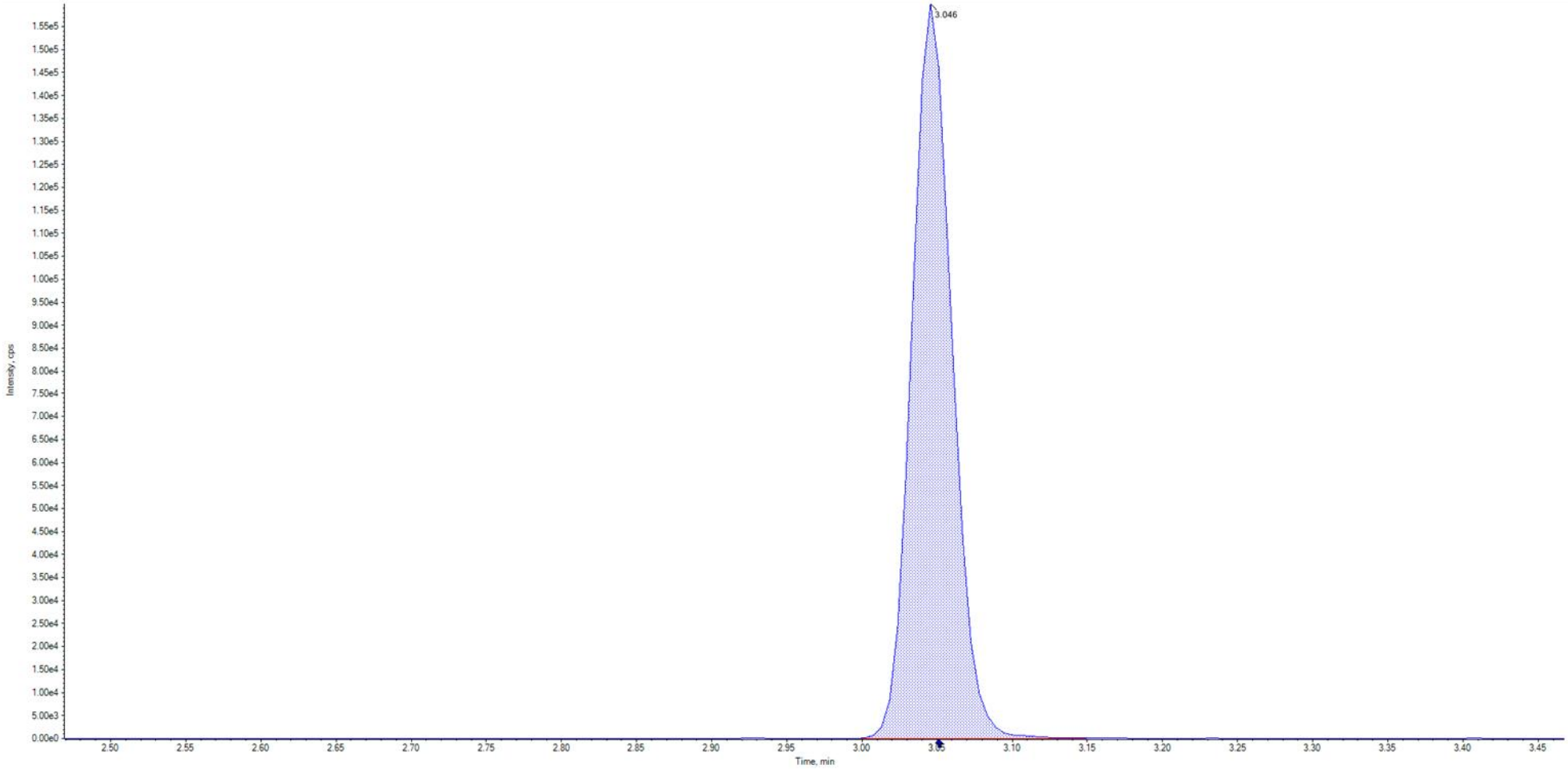

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13C9-PFNA
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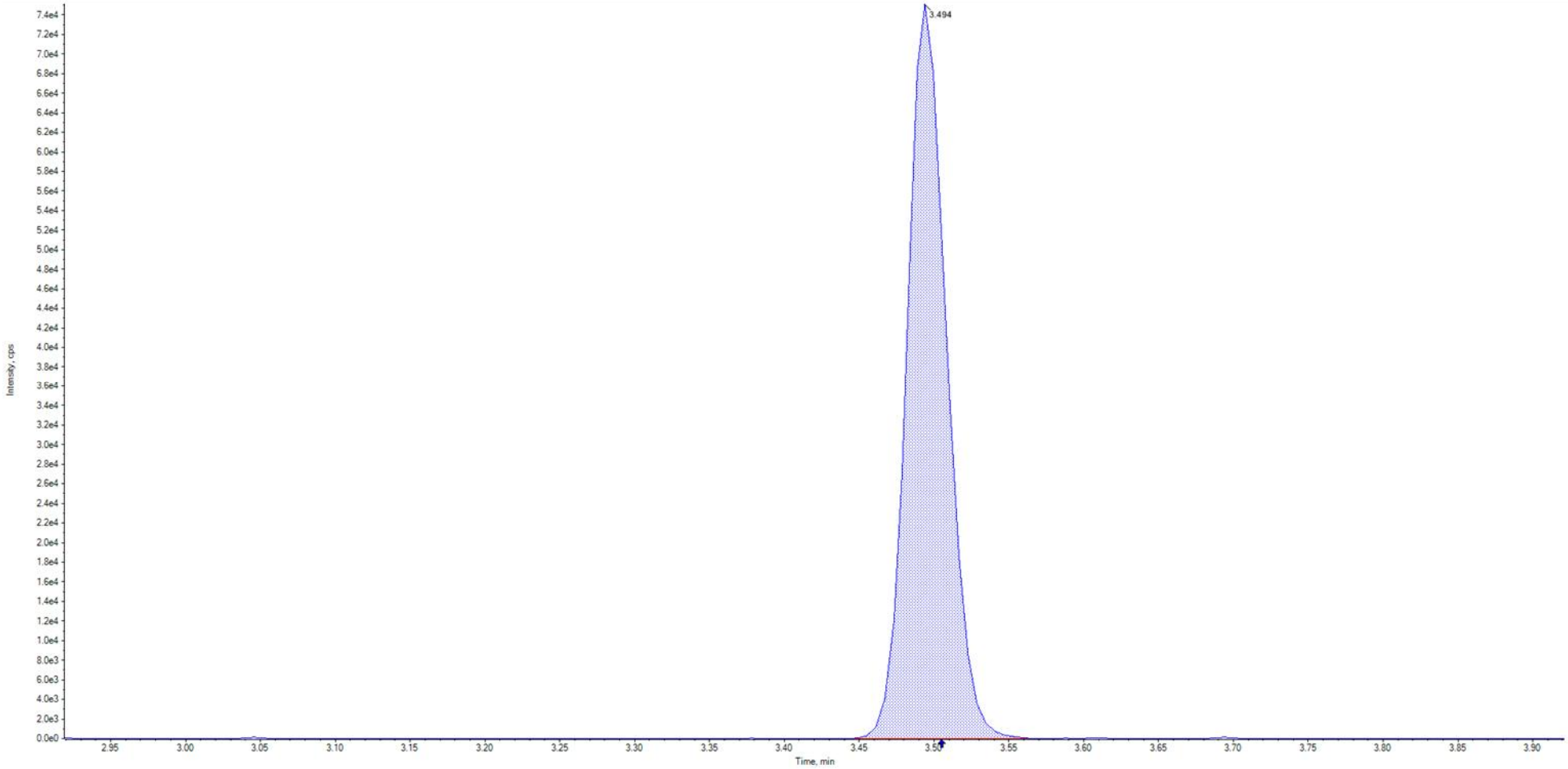

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13C6-PFDA
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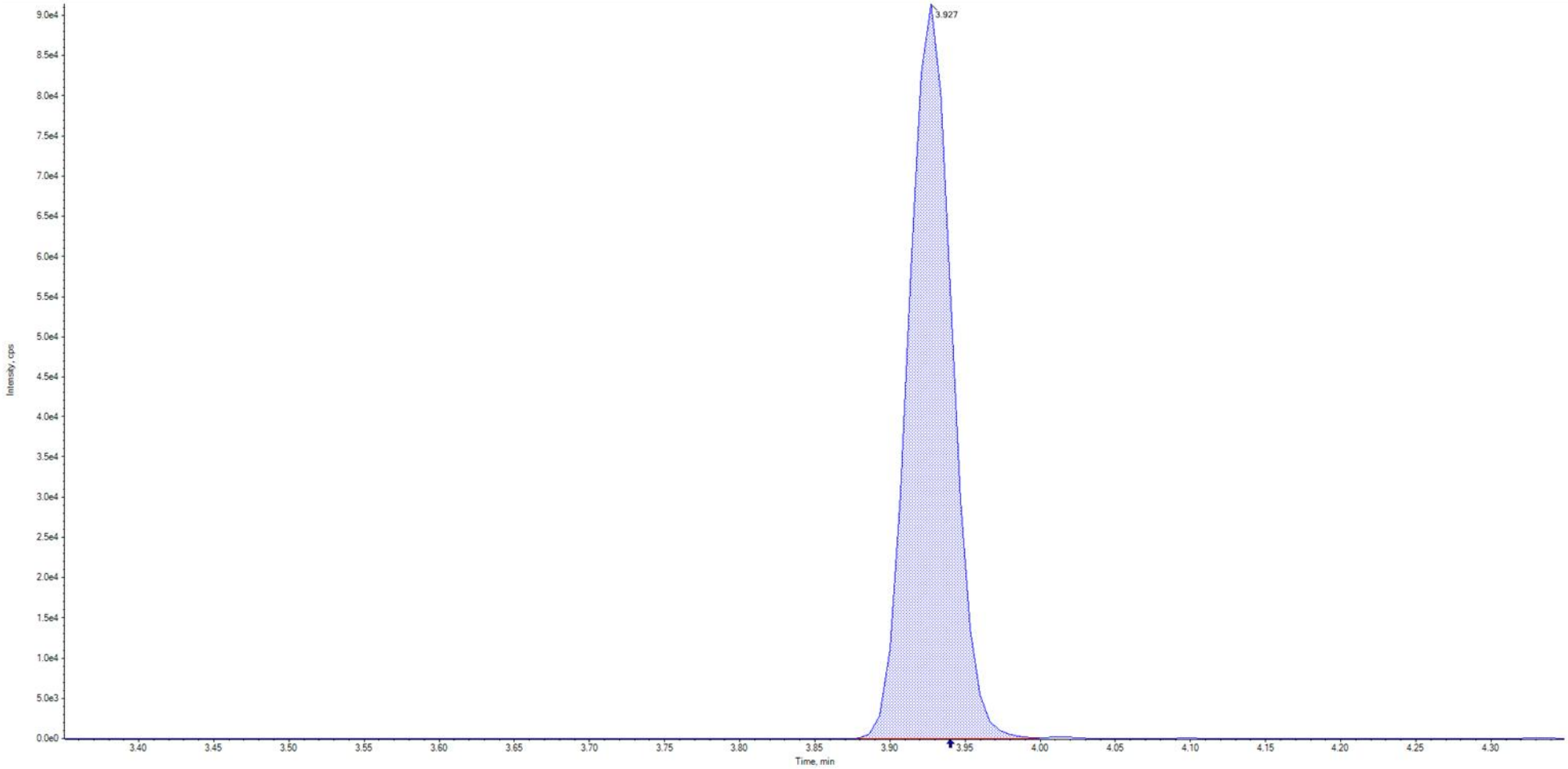

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13C7-PFUnA
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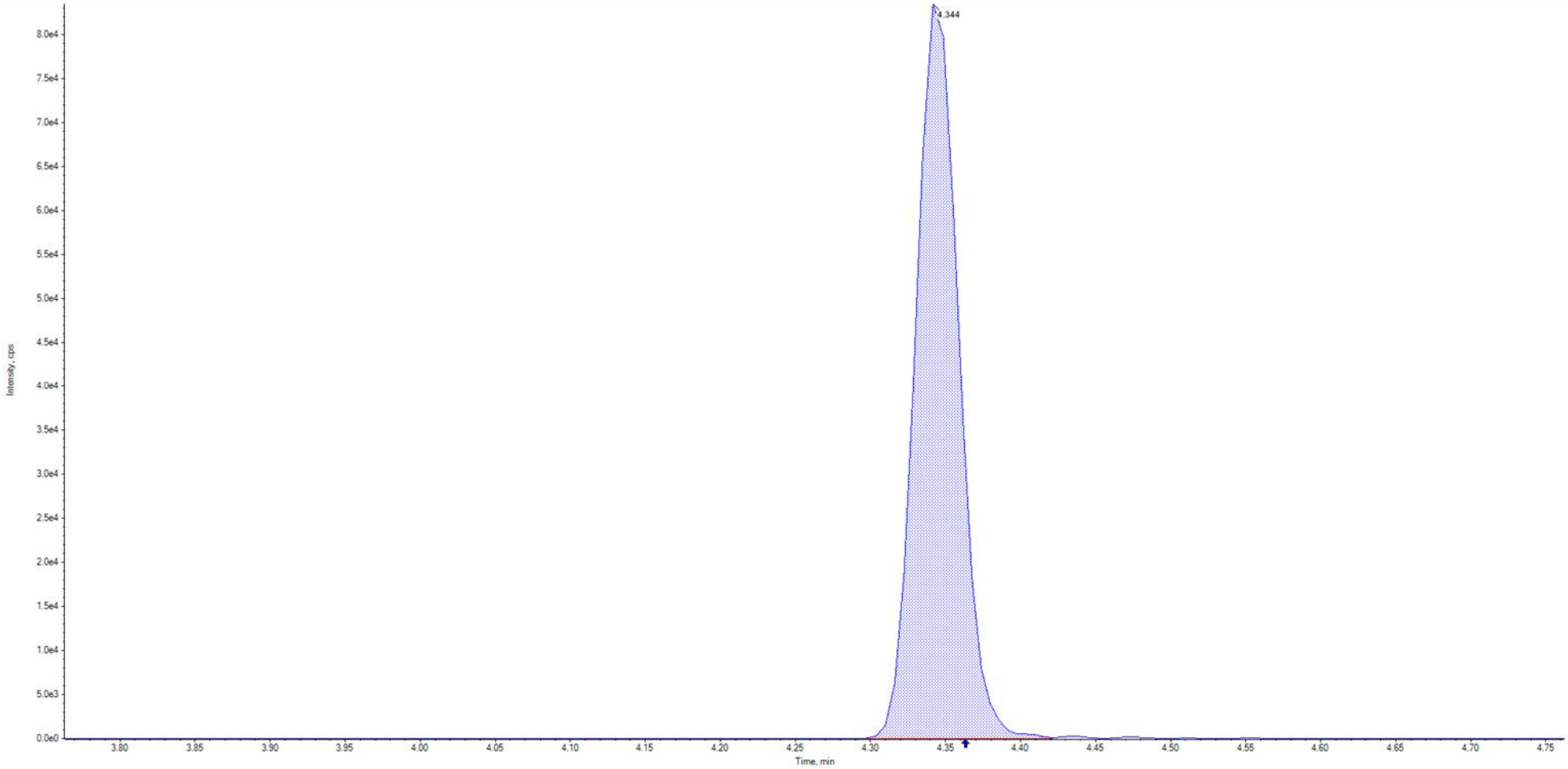

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13C2-PFDoA
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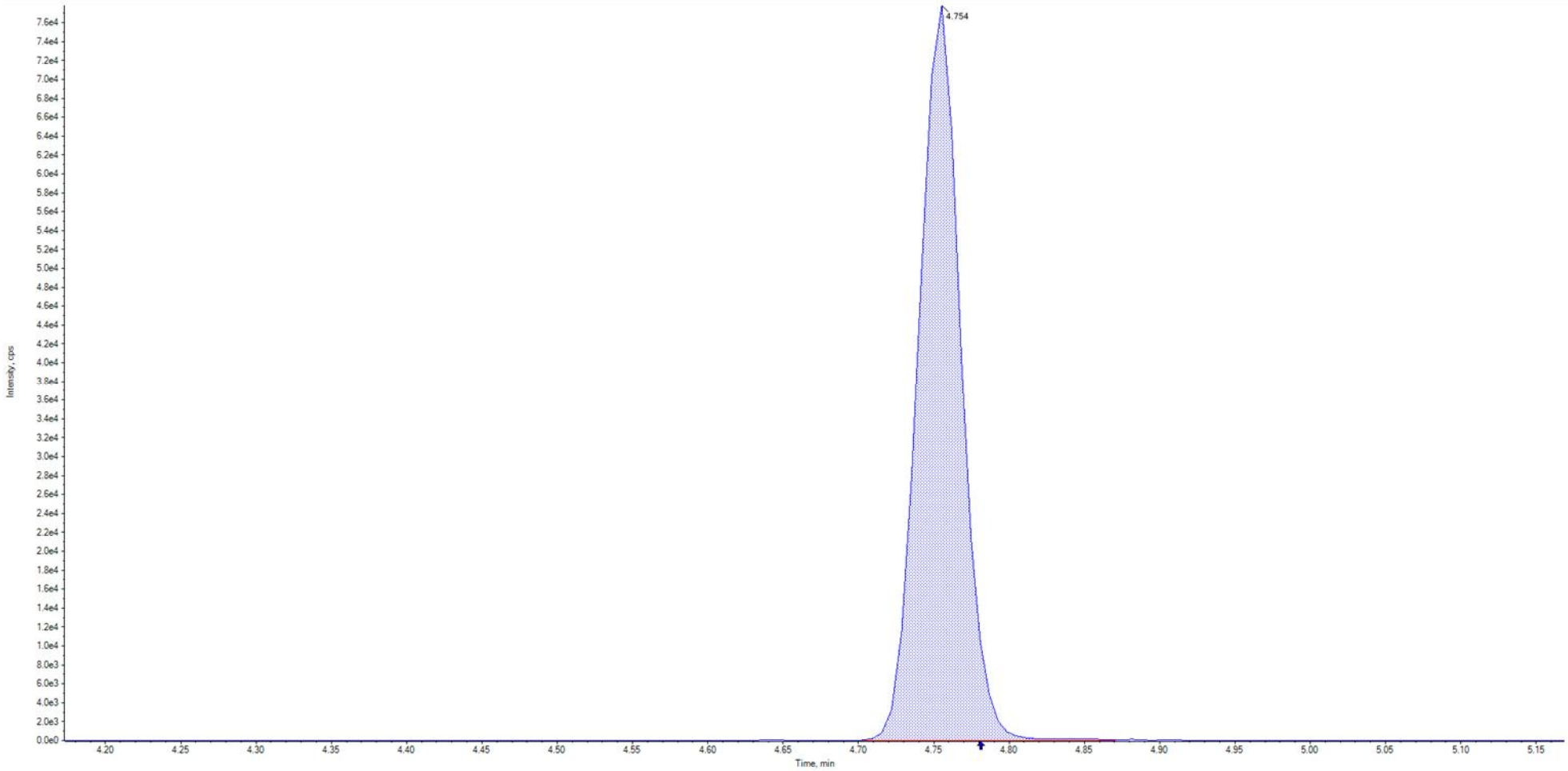

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13C2-PFTeDA
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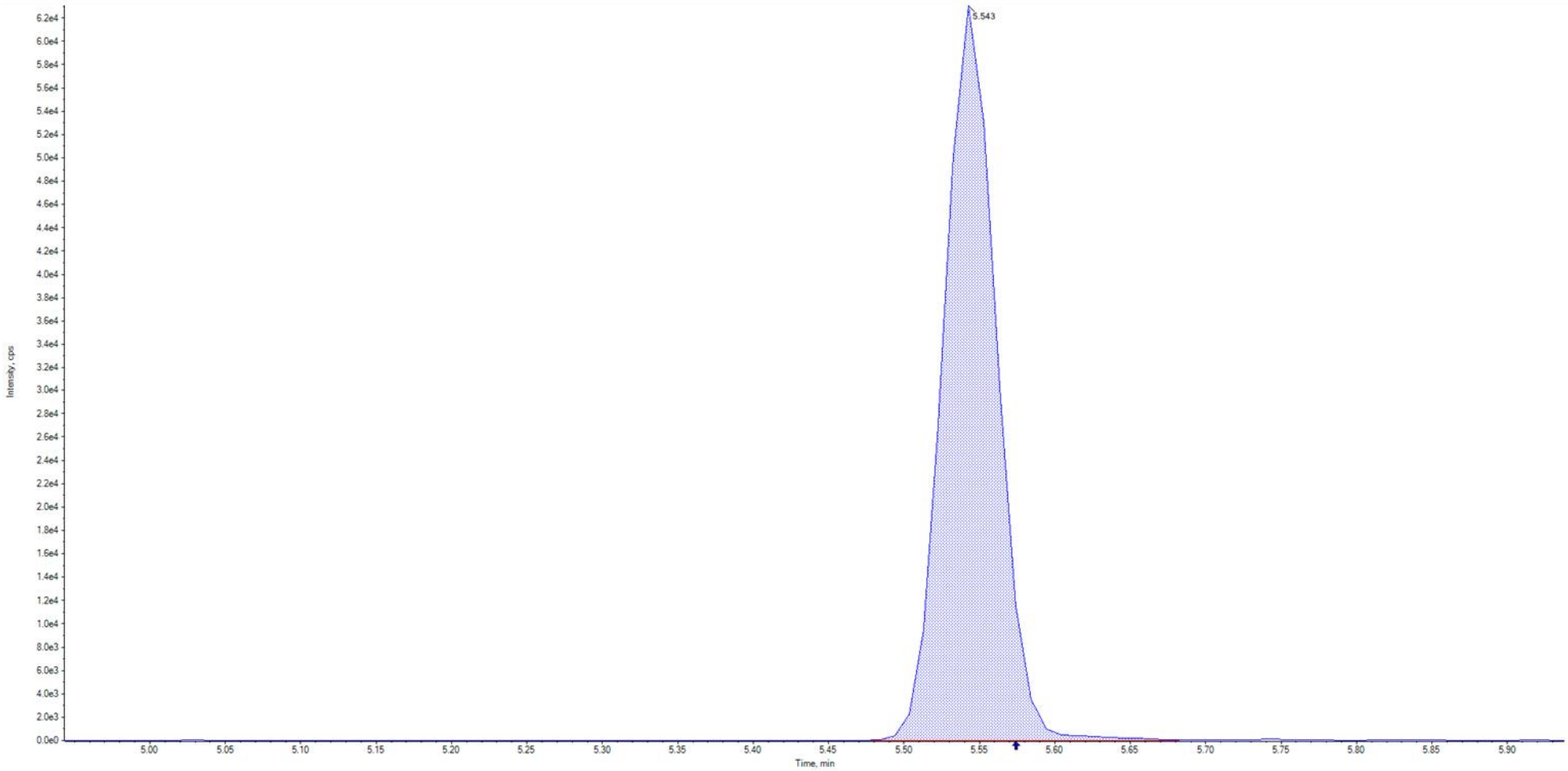

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13C3-PFBS
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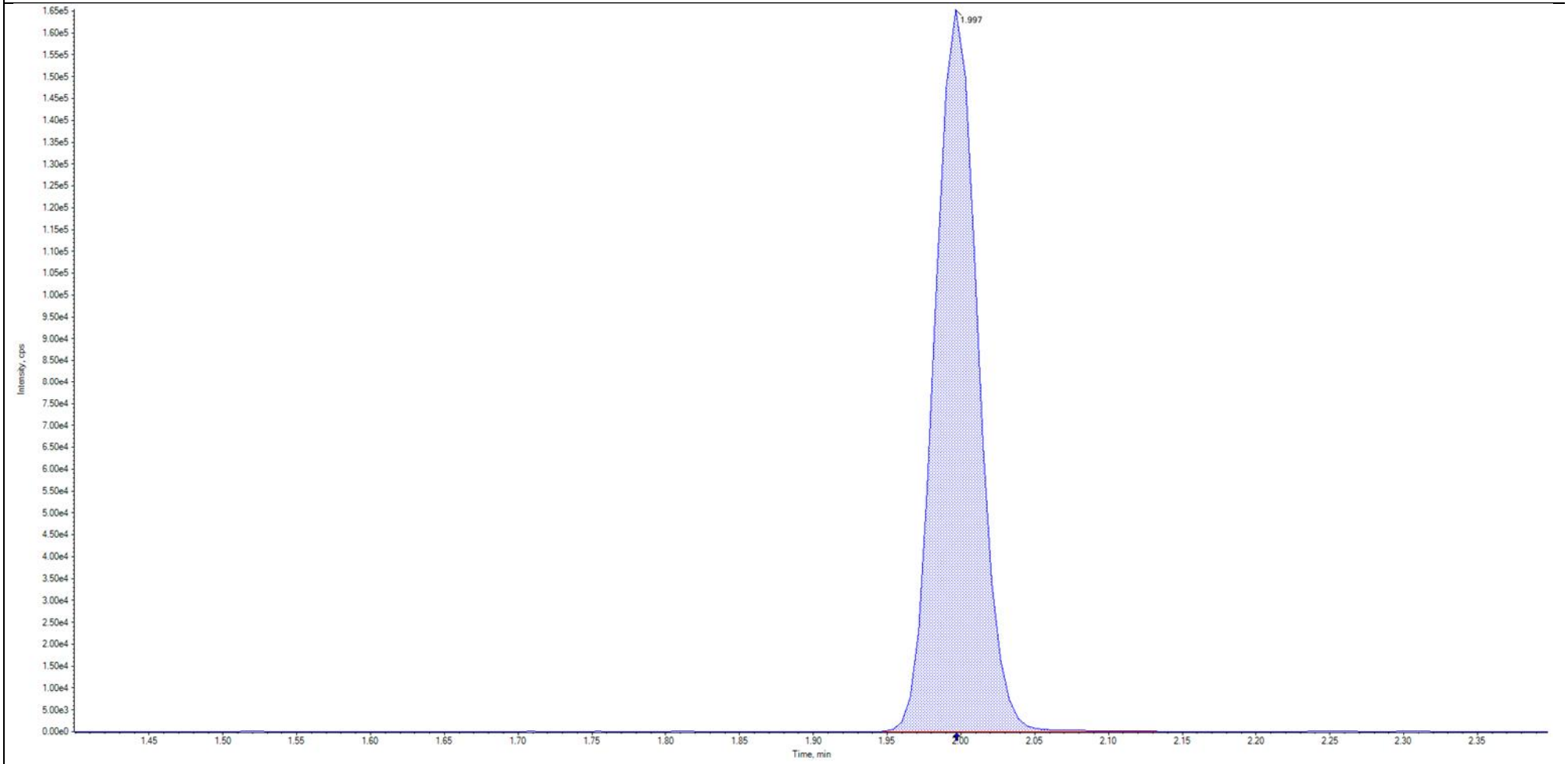

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13C3-PFHxS
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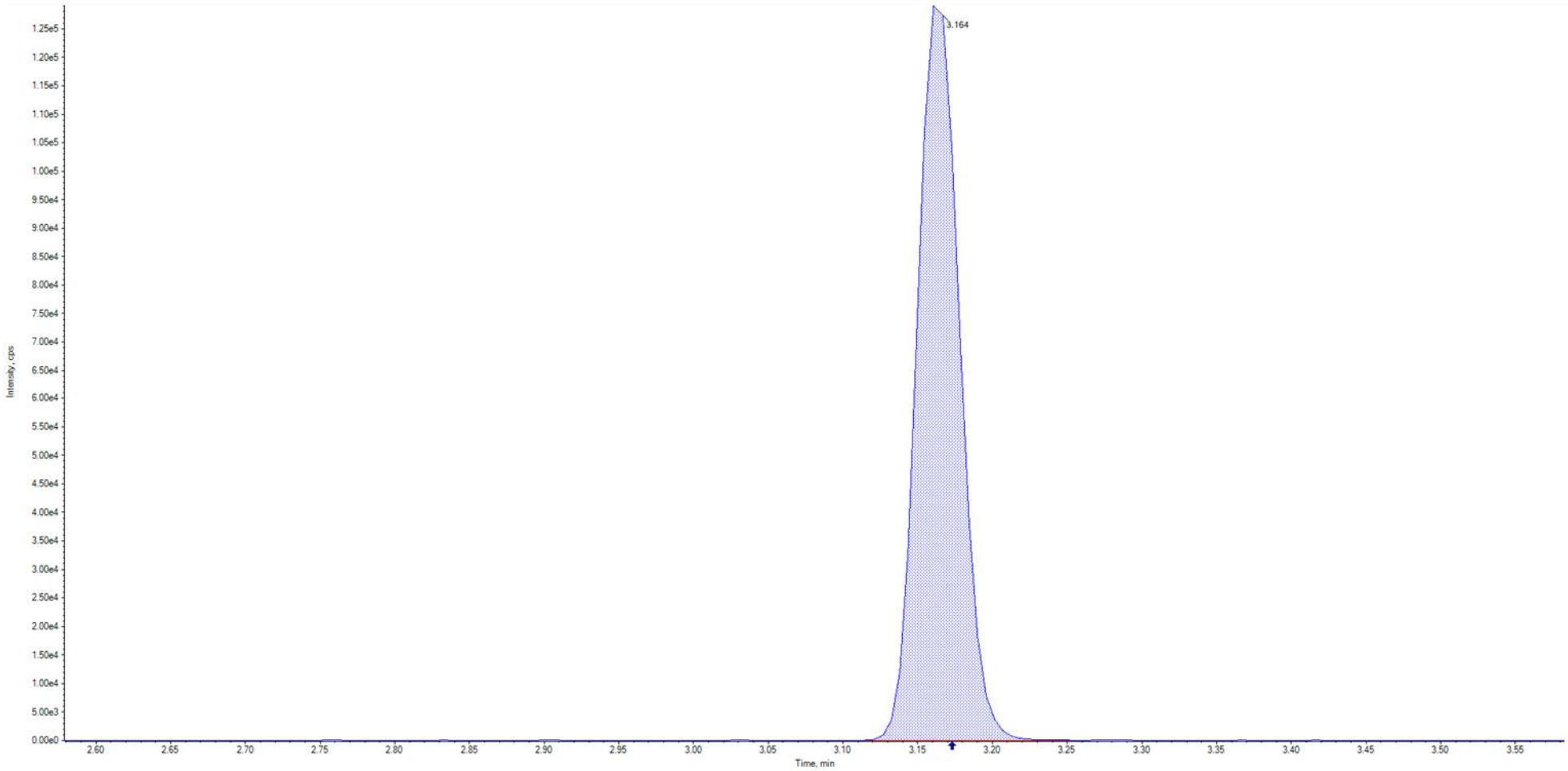

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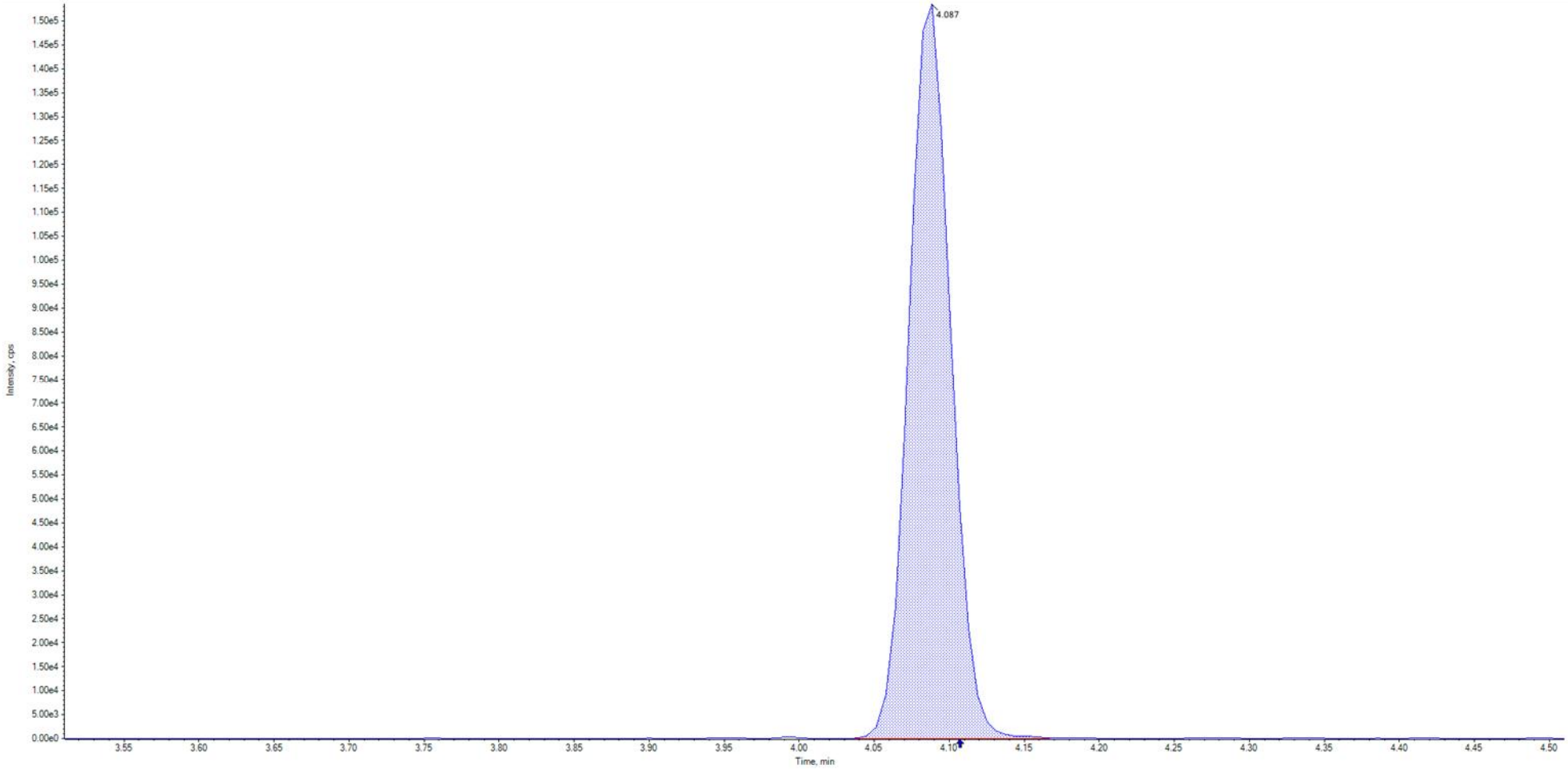
13C8-PFOS
Sample: L2470744-03



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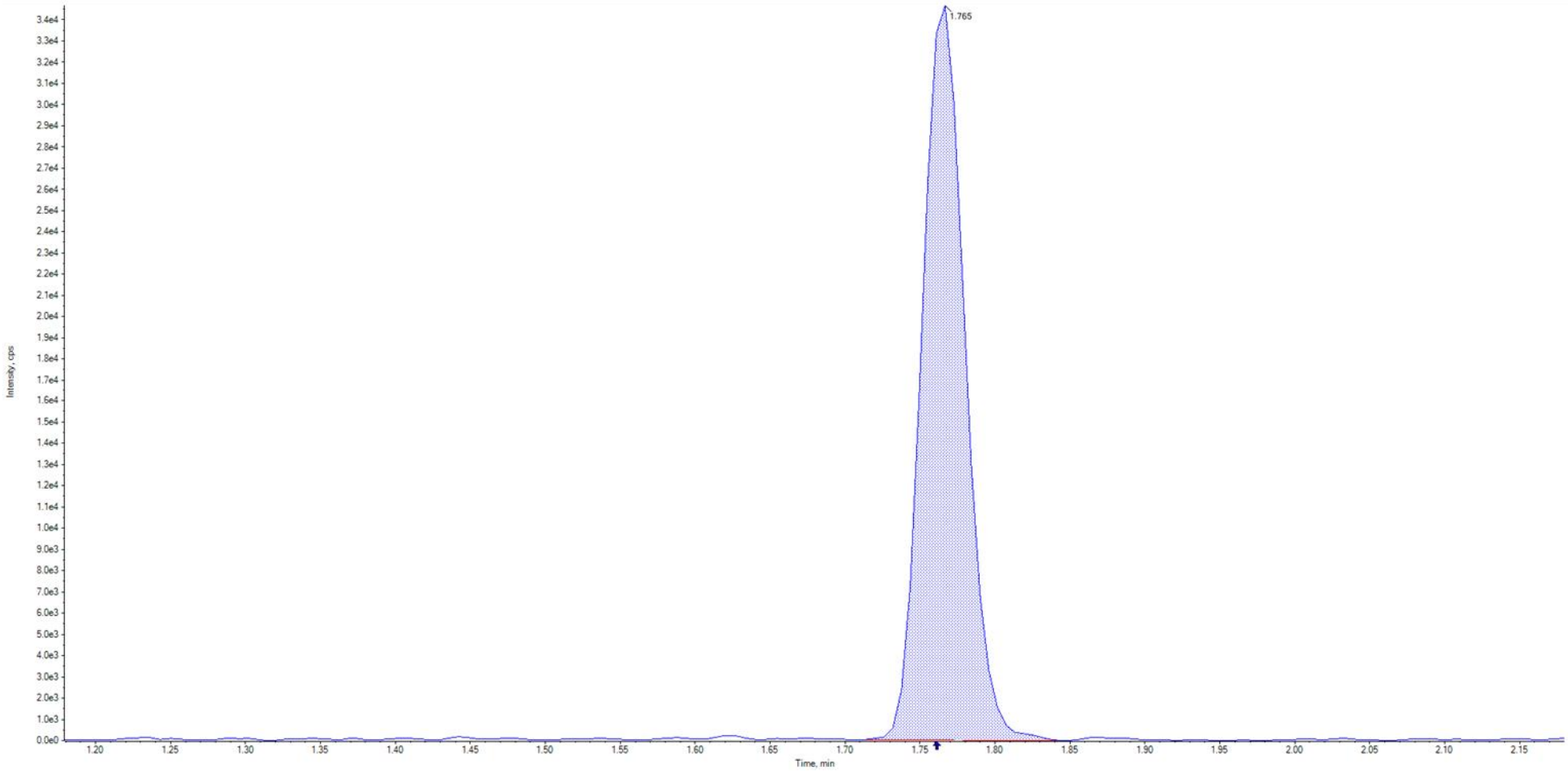
13C2-4:2FTS
Sample: L2470744-03



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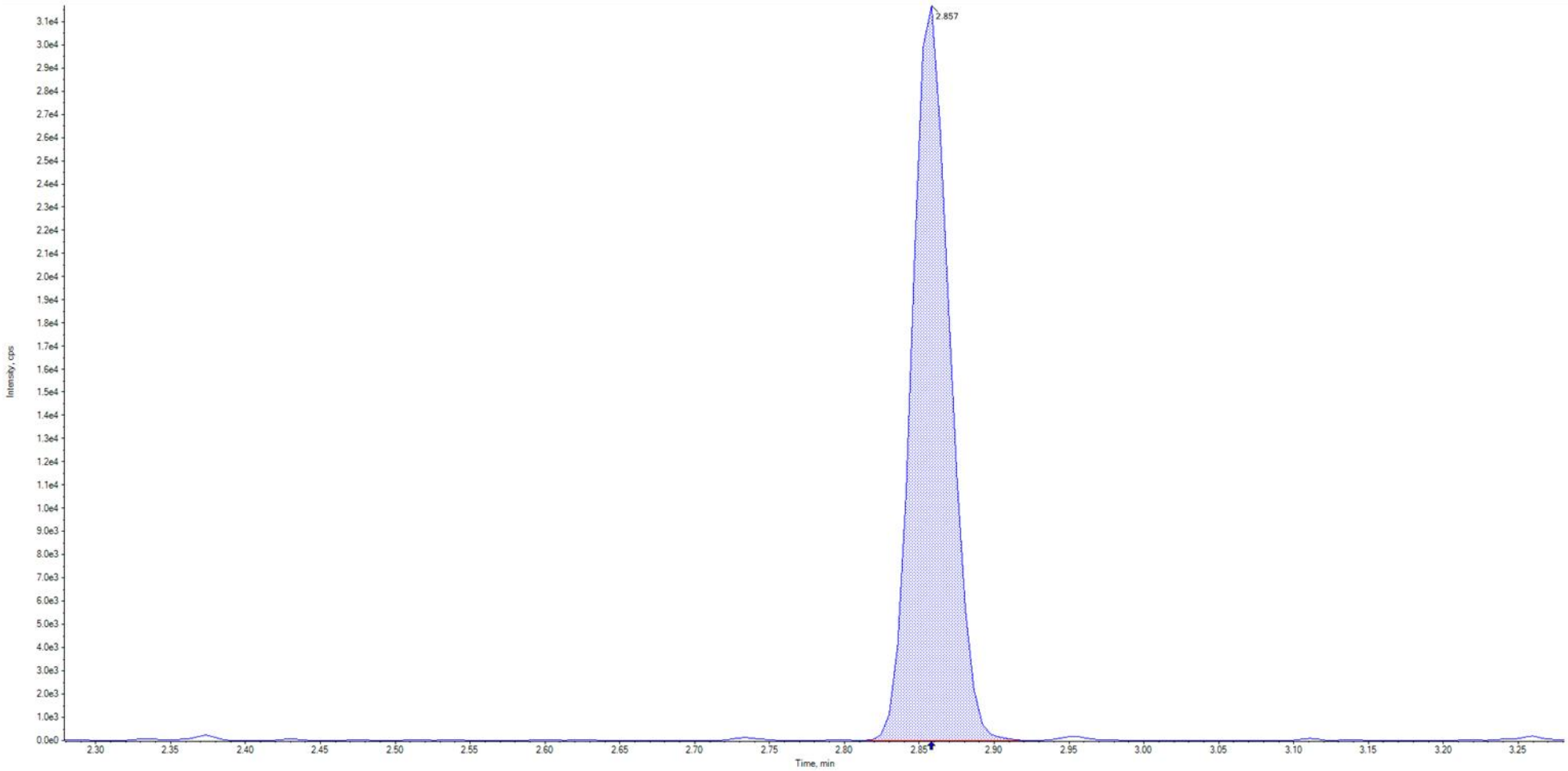
13C2-6:2FTS
Sample: L2470744-03



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13C2-8:2FTS
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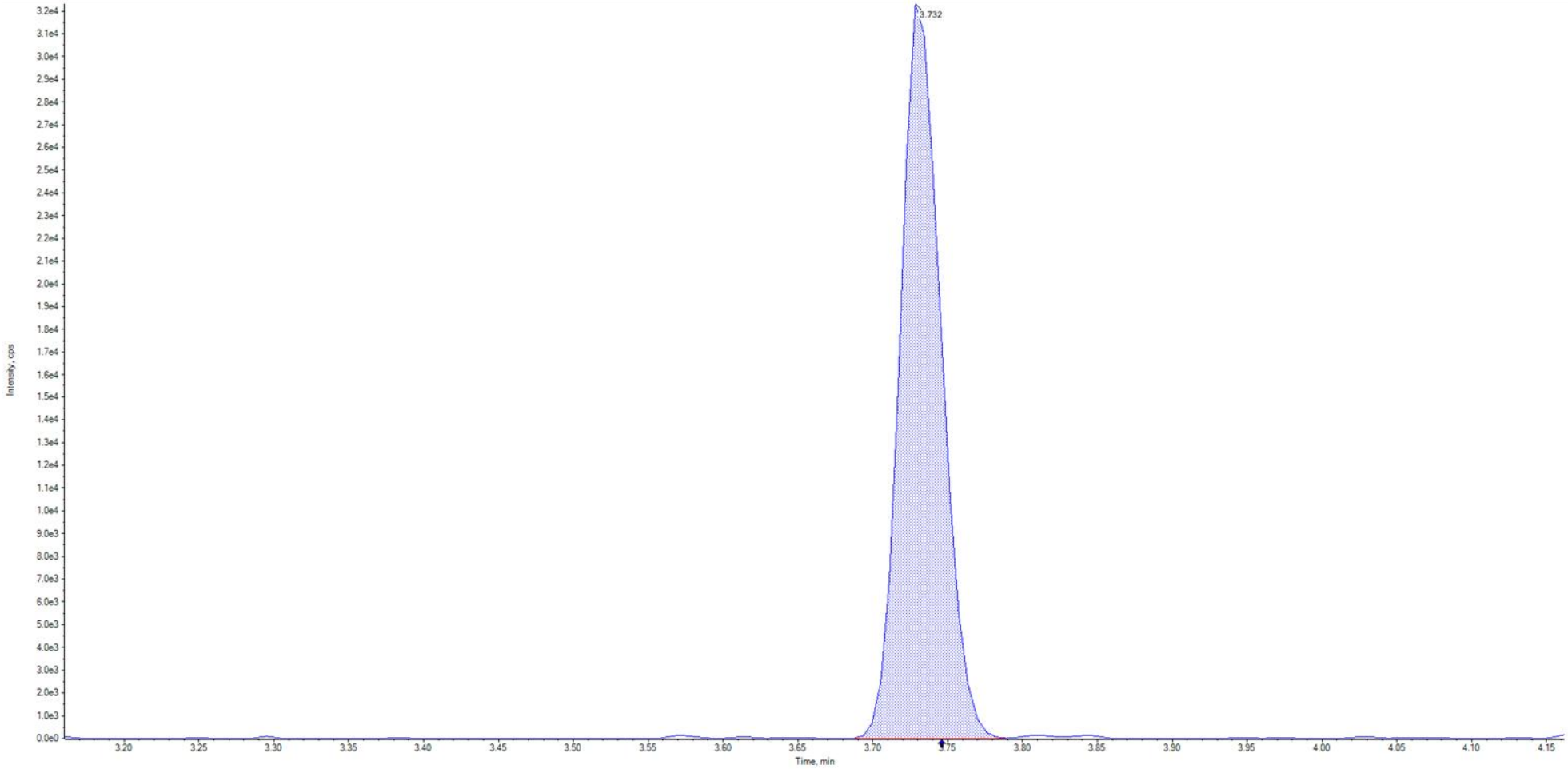

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13C8-PFOSA
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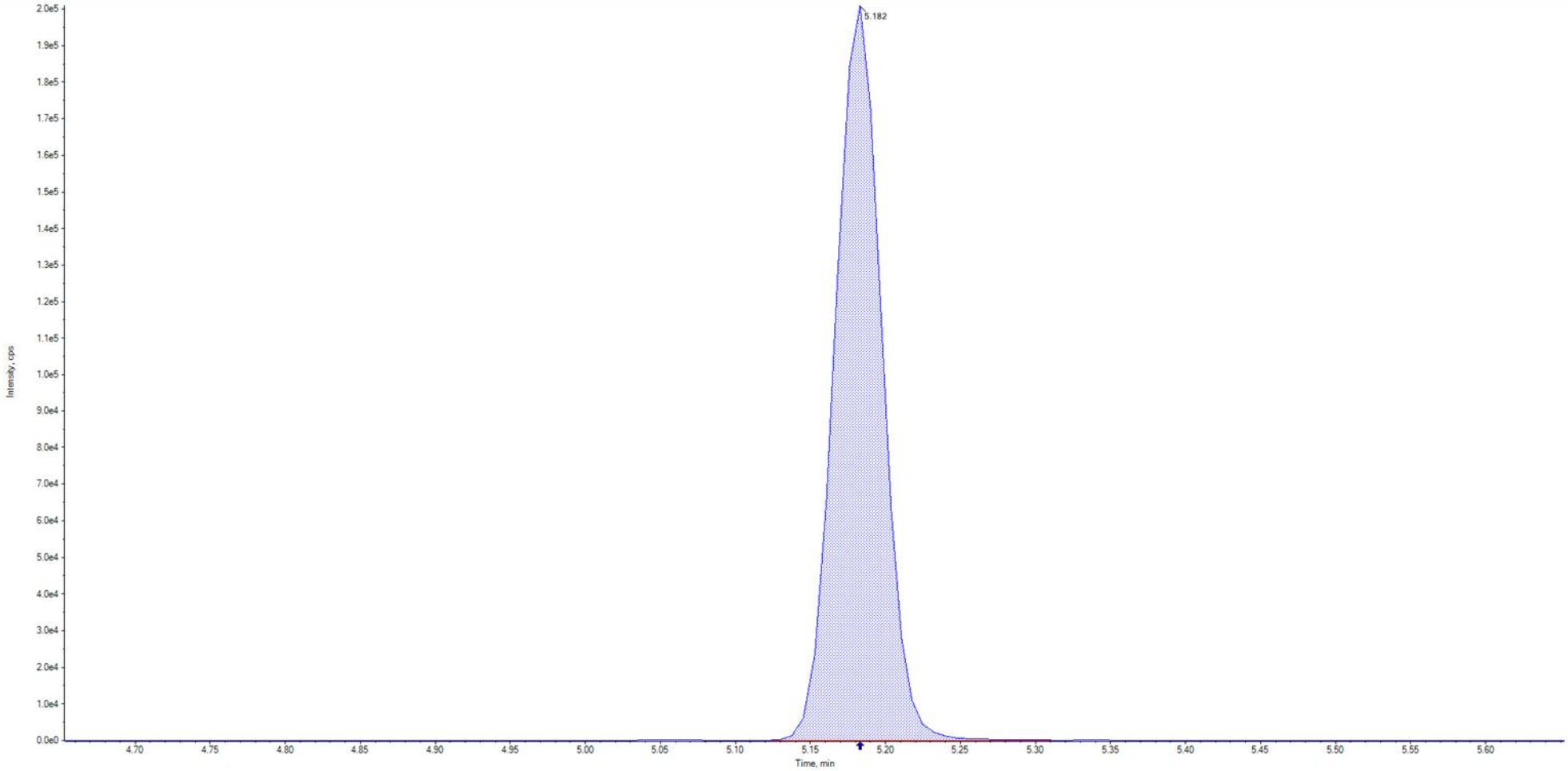

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d3-NMeFOSA
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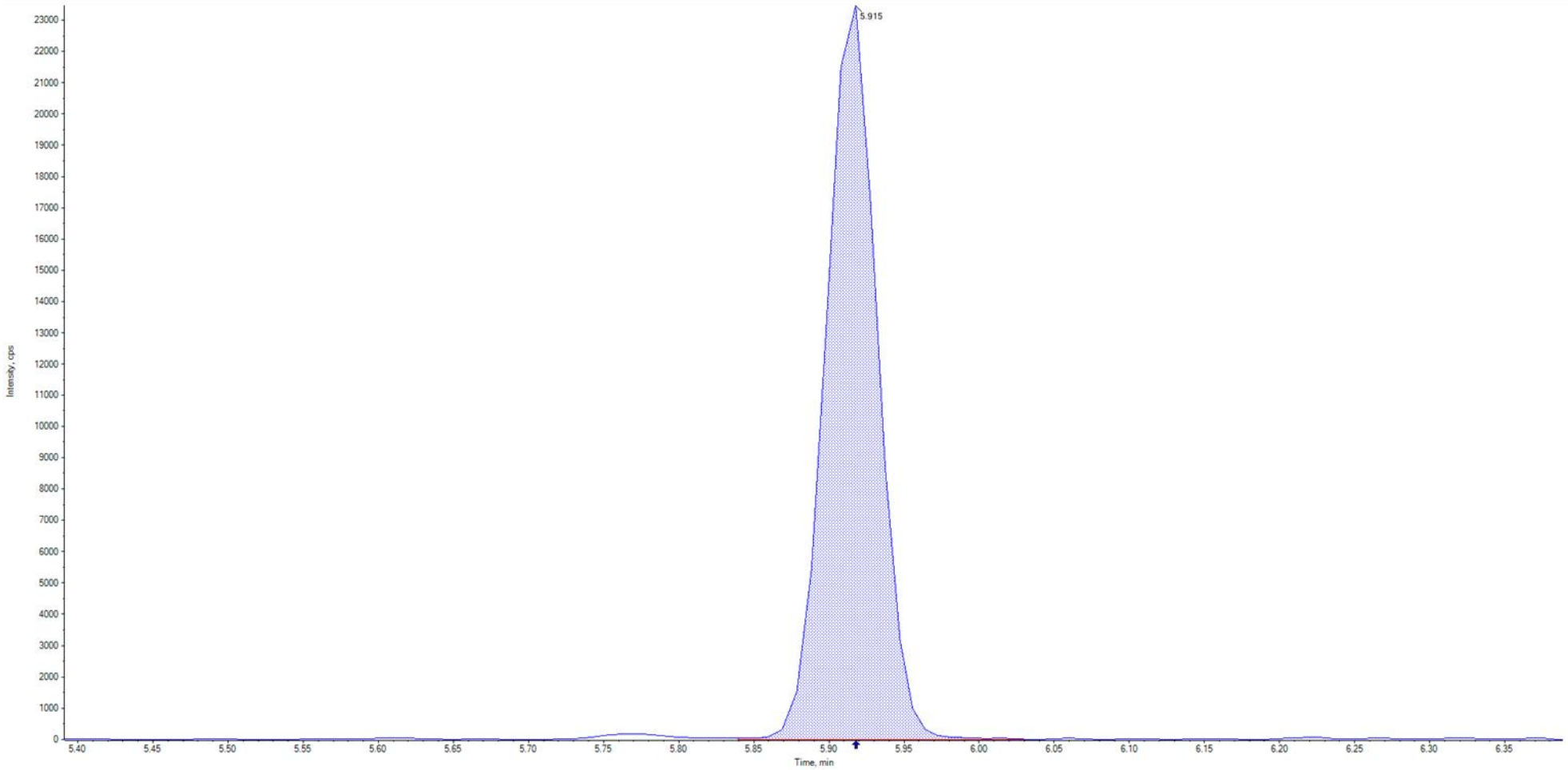

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d5-NEtFOSA
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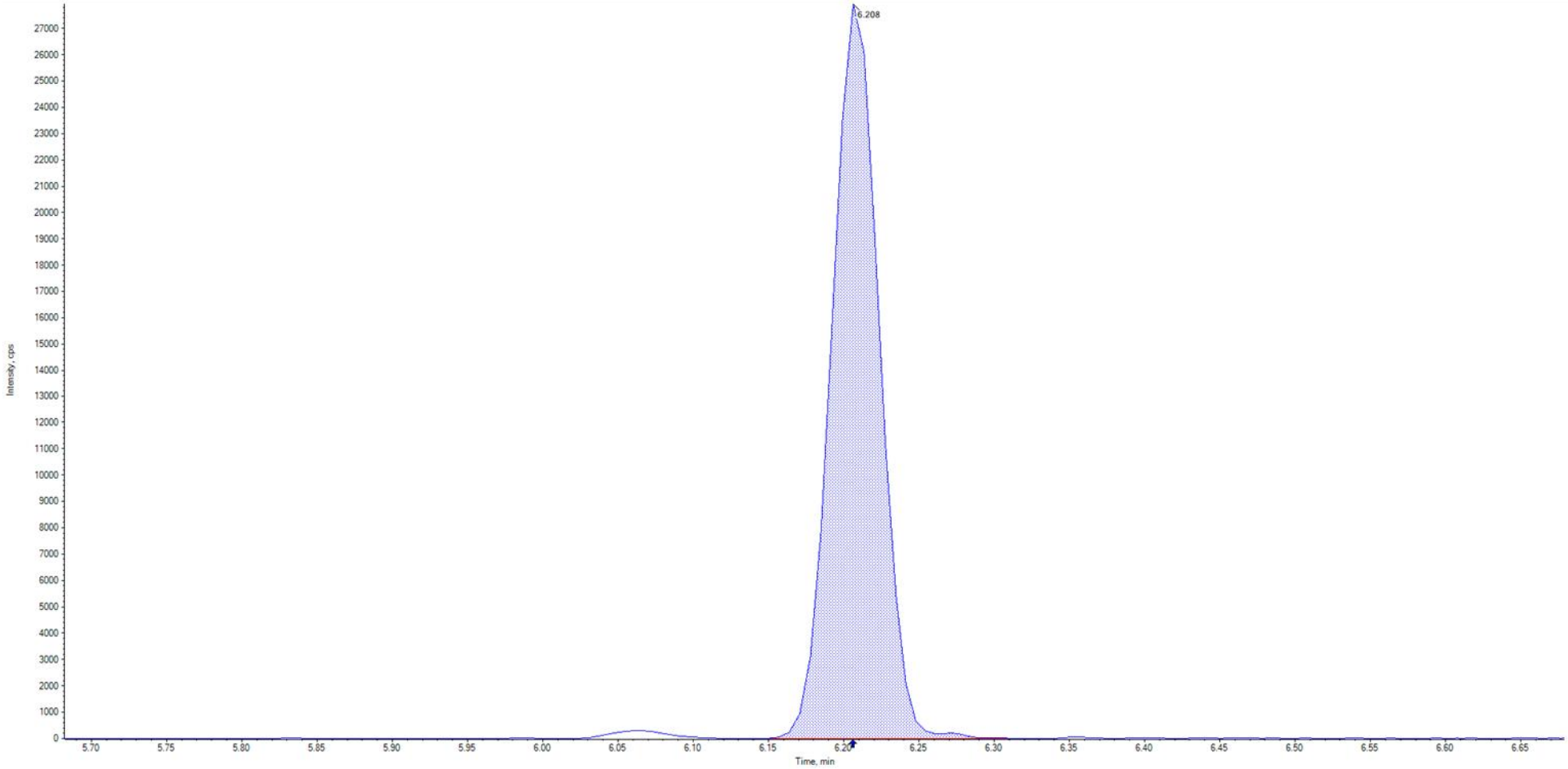

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d3-NMeFOSAA
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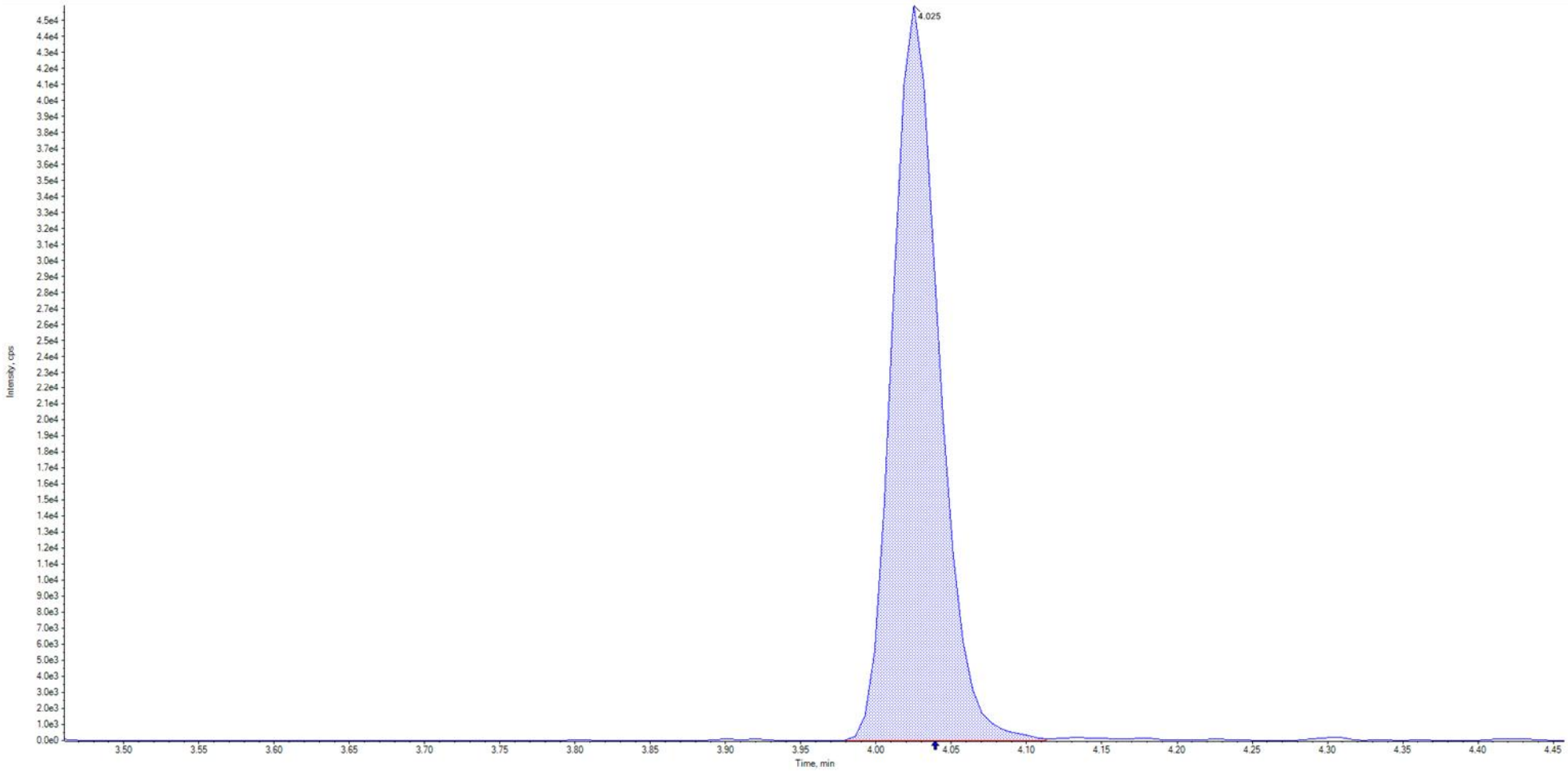

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d5-NEtFOSAA
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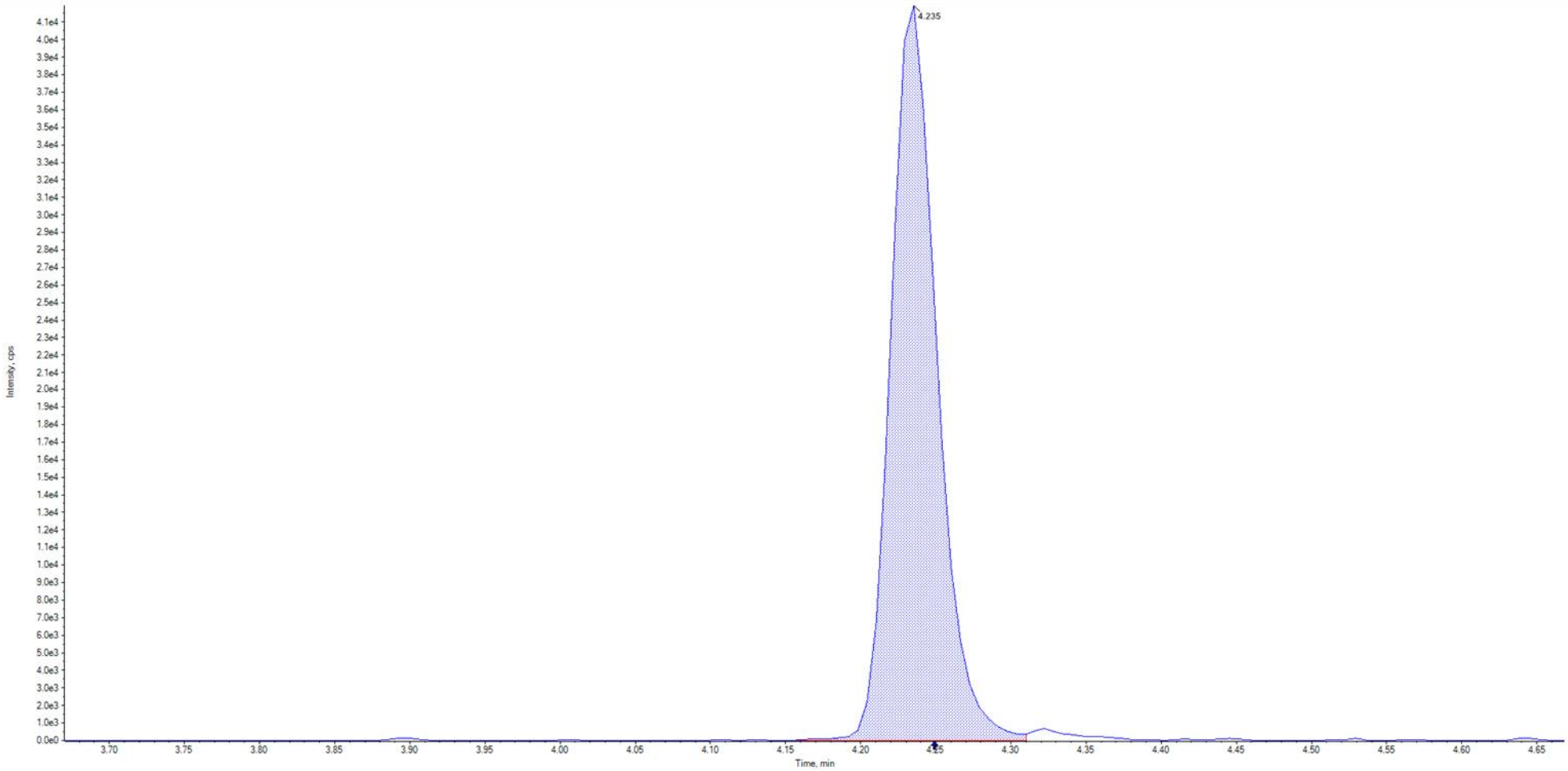

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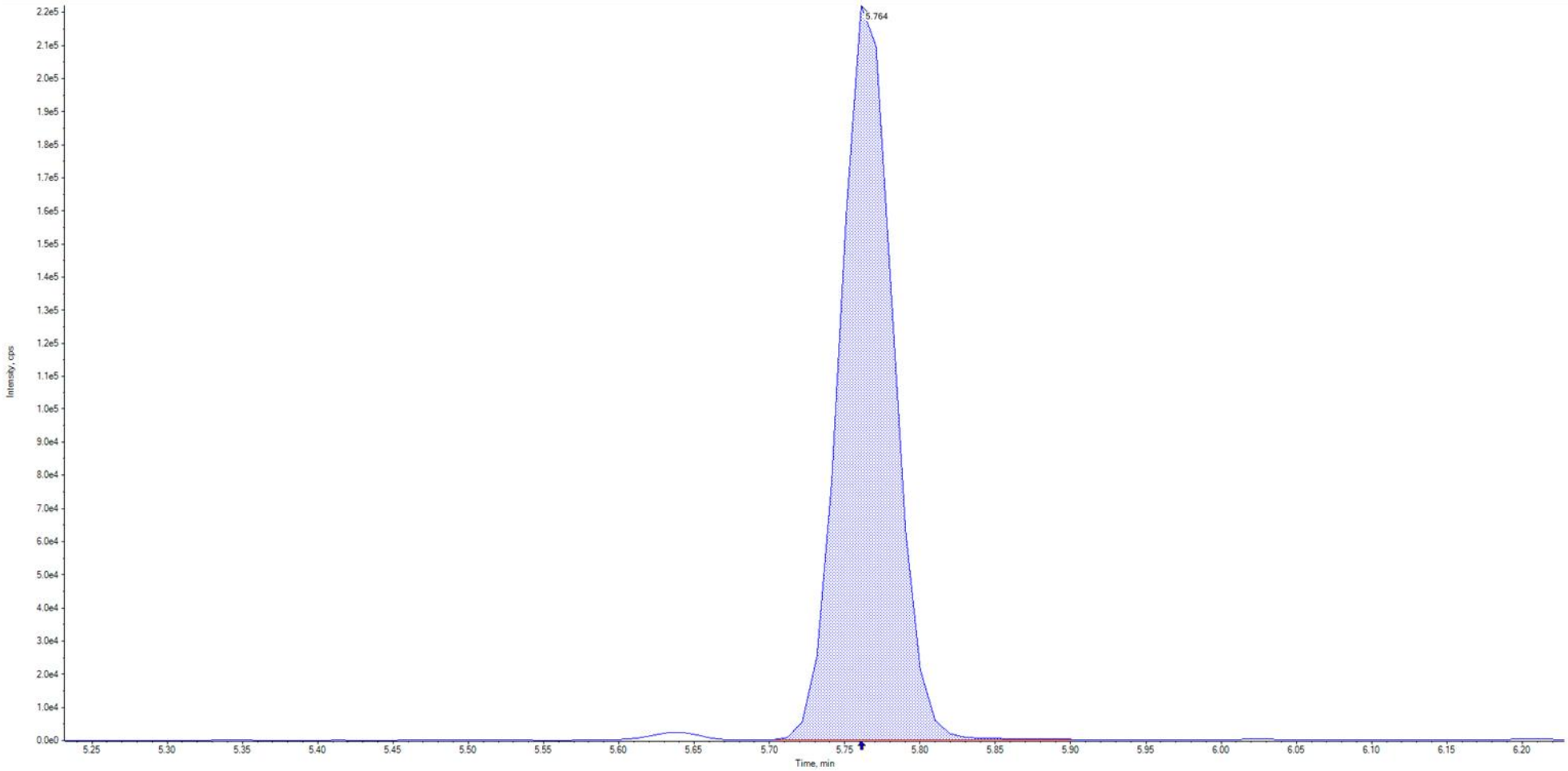
d7-NMeFOSE
Sample: L2470744-03



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d9-NEtFOSE
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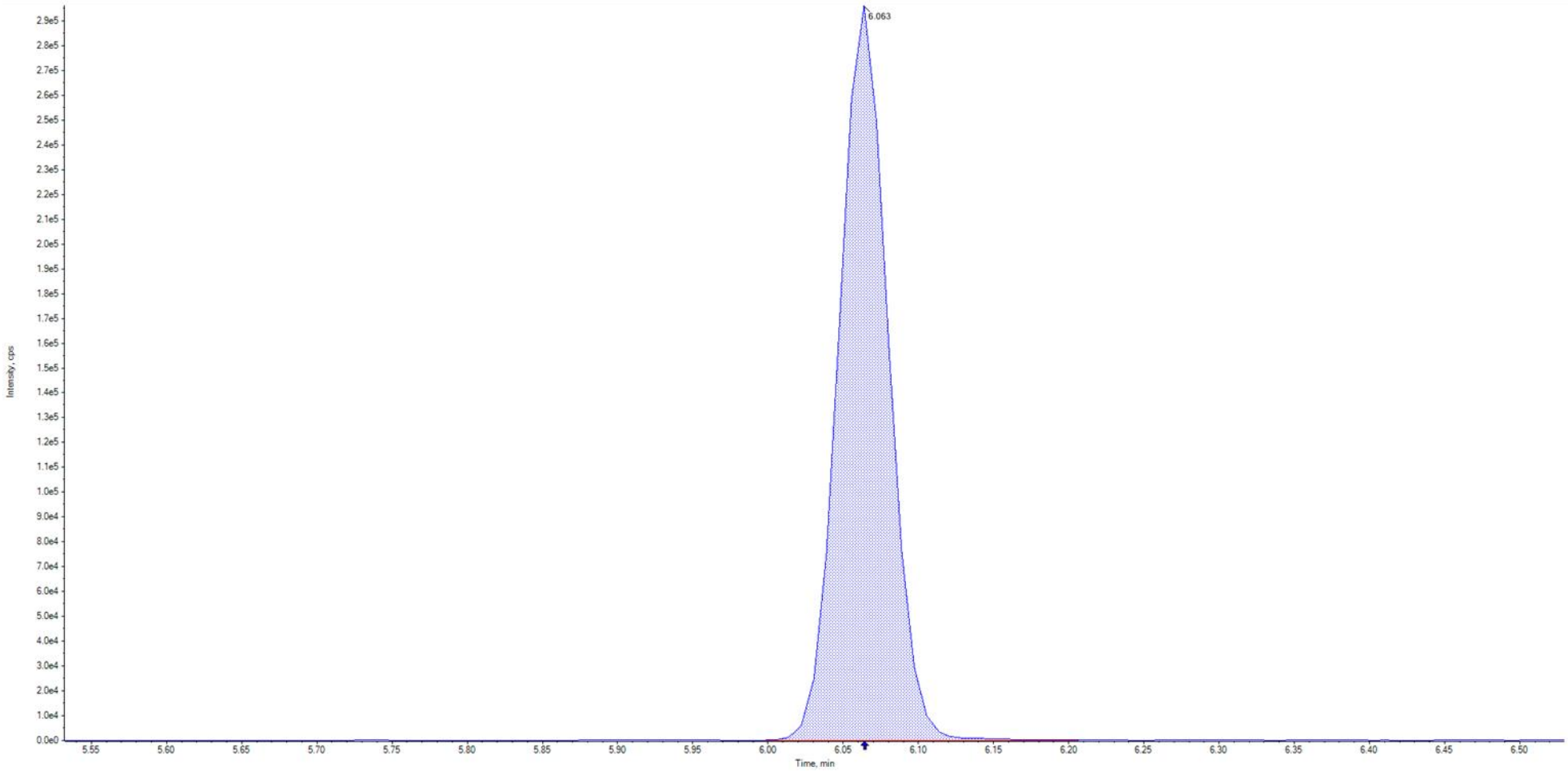

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13C3-HFPO-DA
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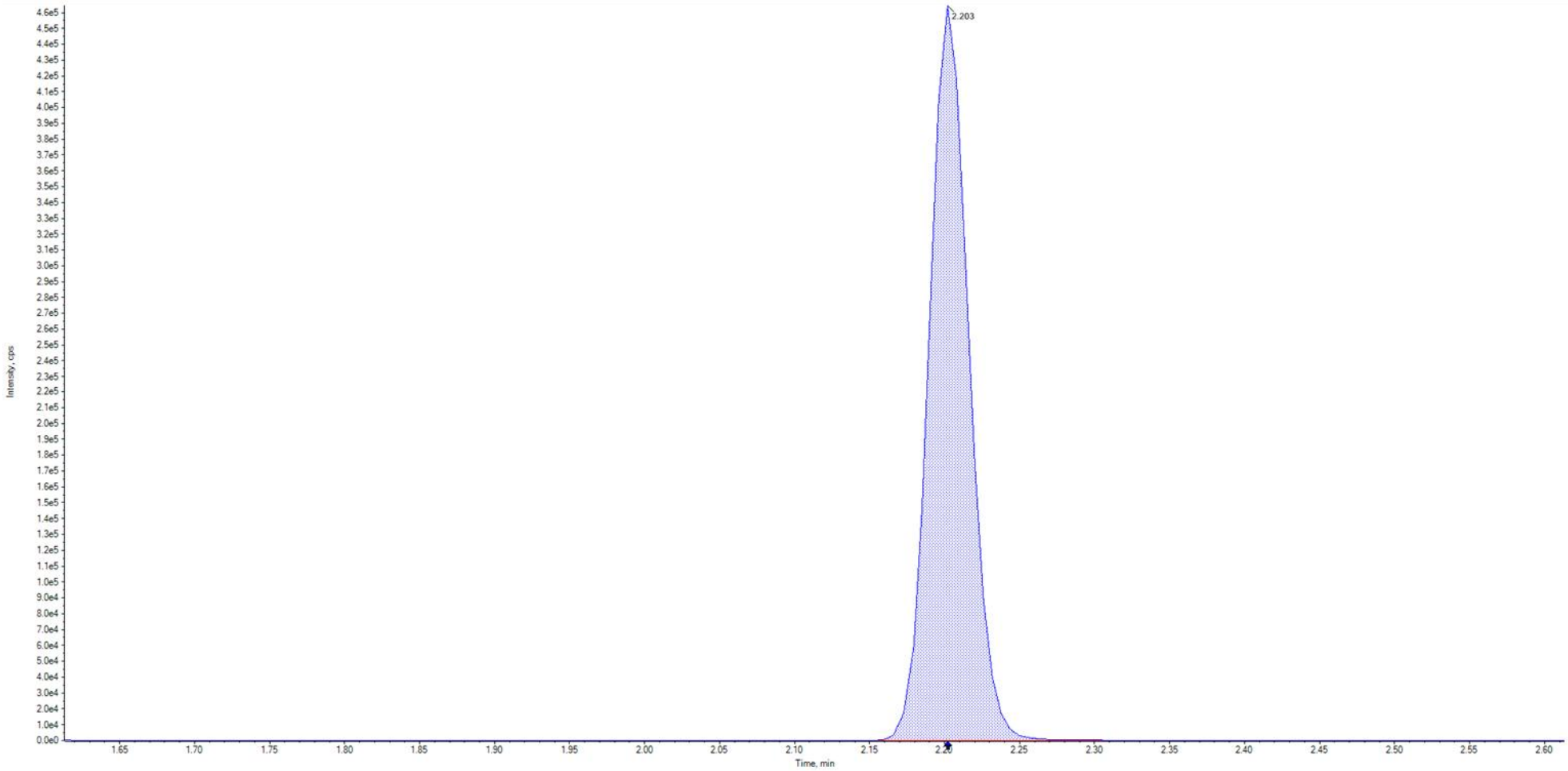

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13C3-PFBA
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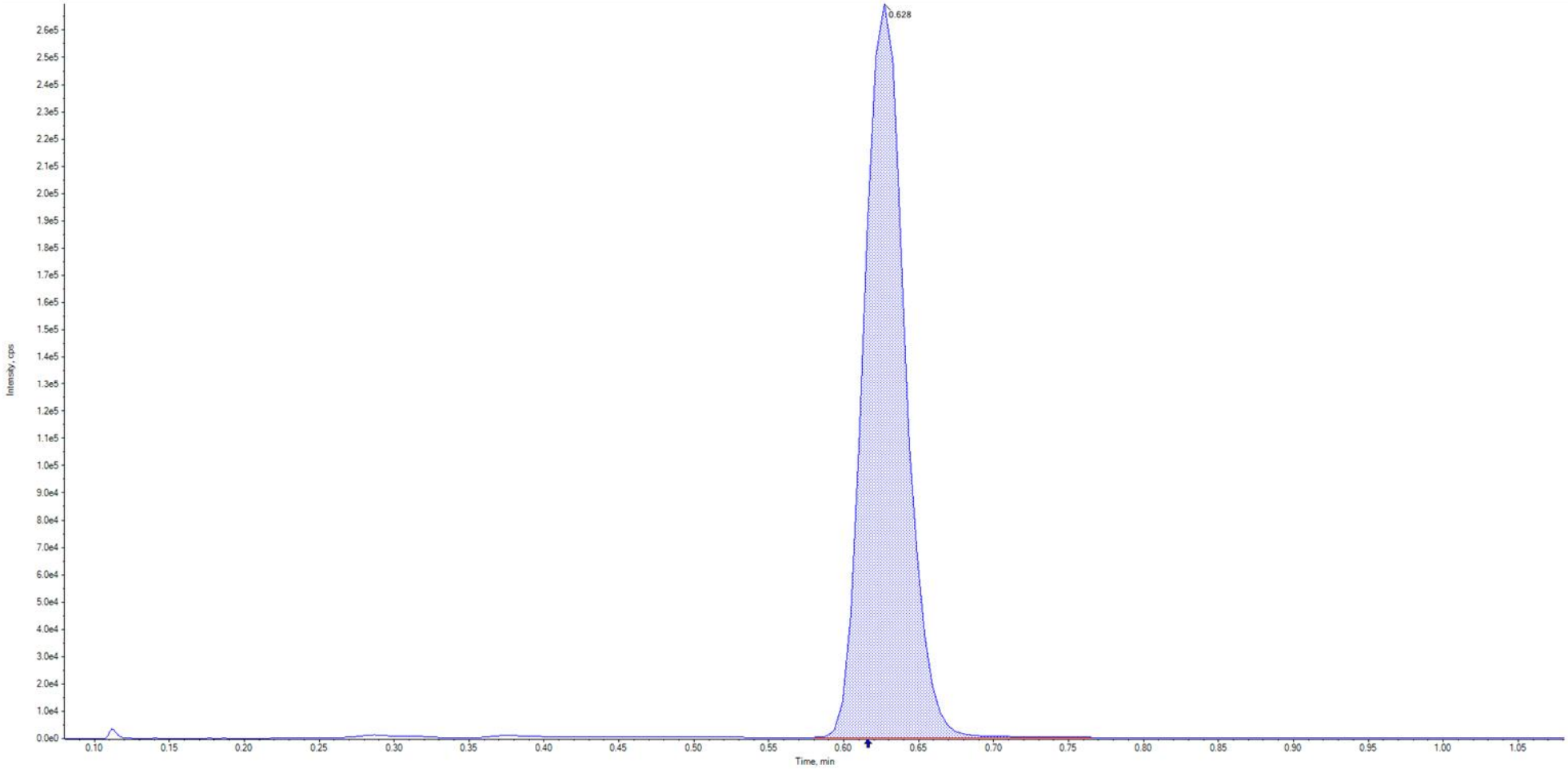

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13C2-PFHxA
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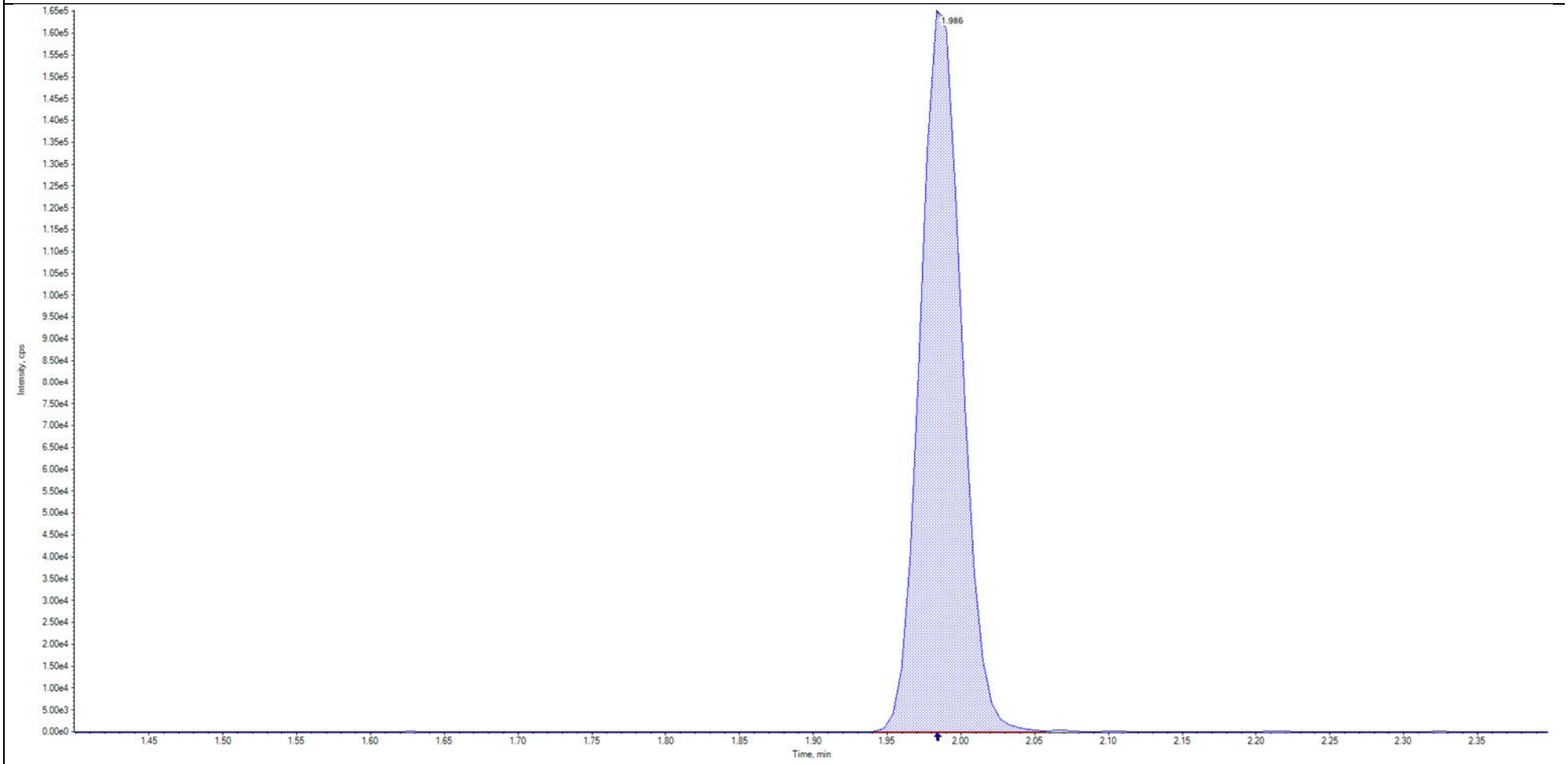

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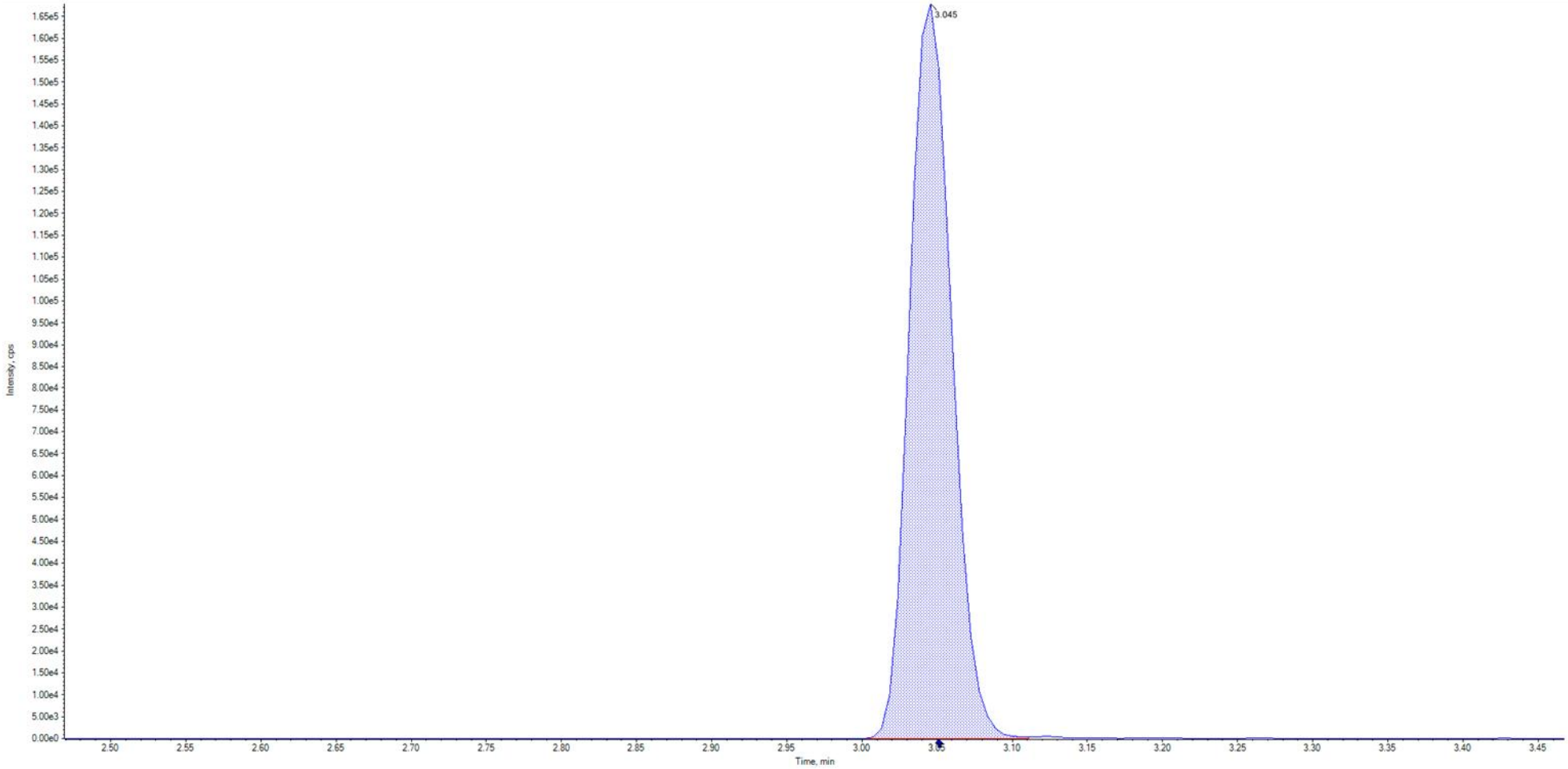
Sample: L2470744-03



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Alpha Analytical LLC
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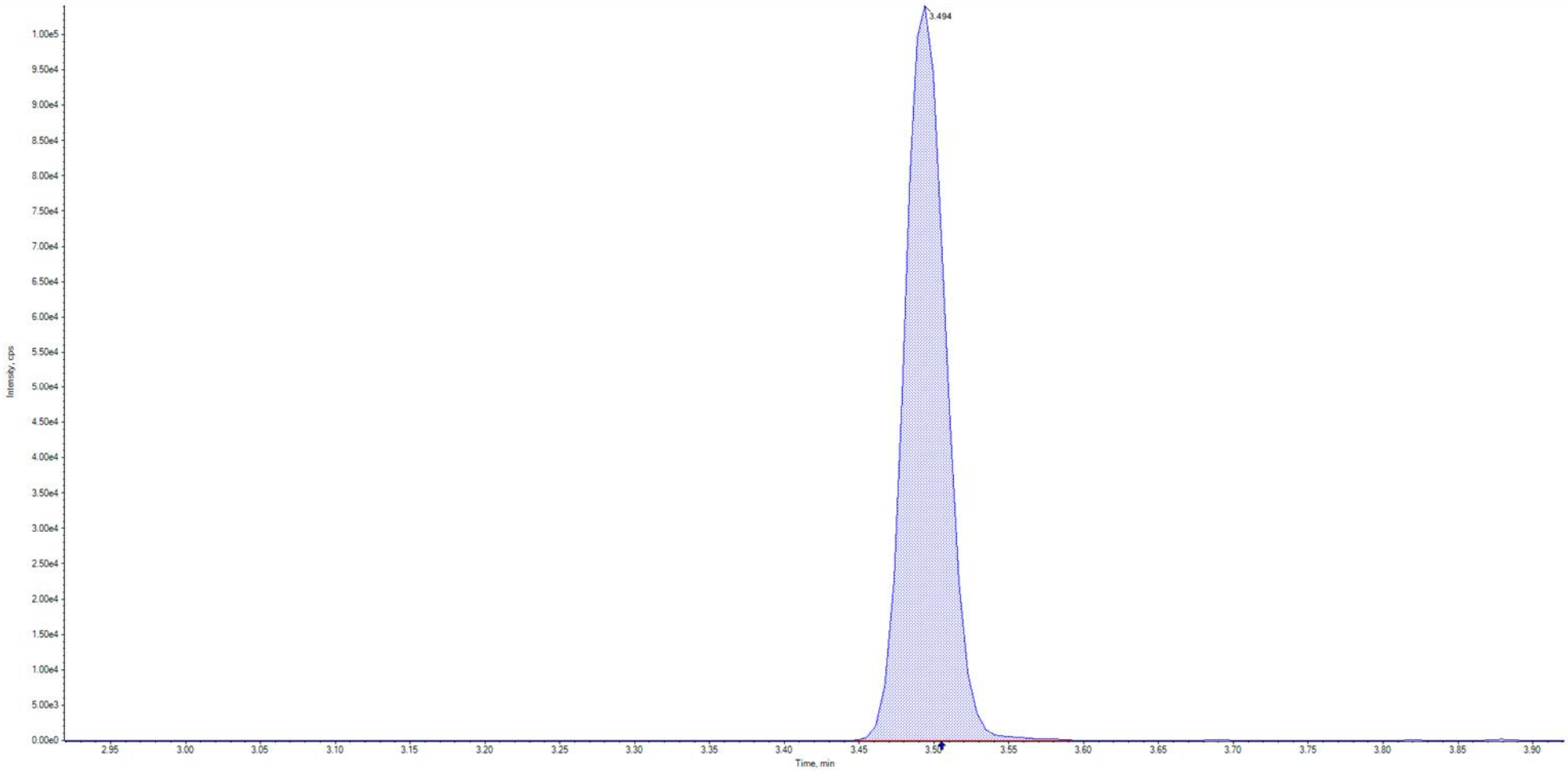
13C5-PFNA
Sample: L2470744-03



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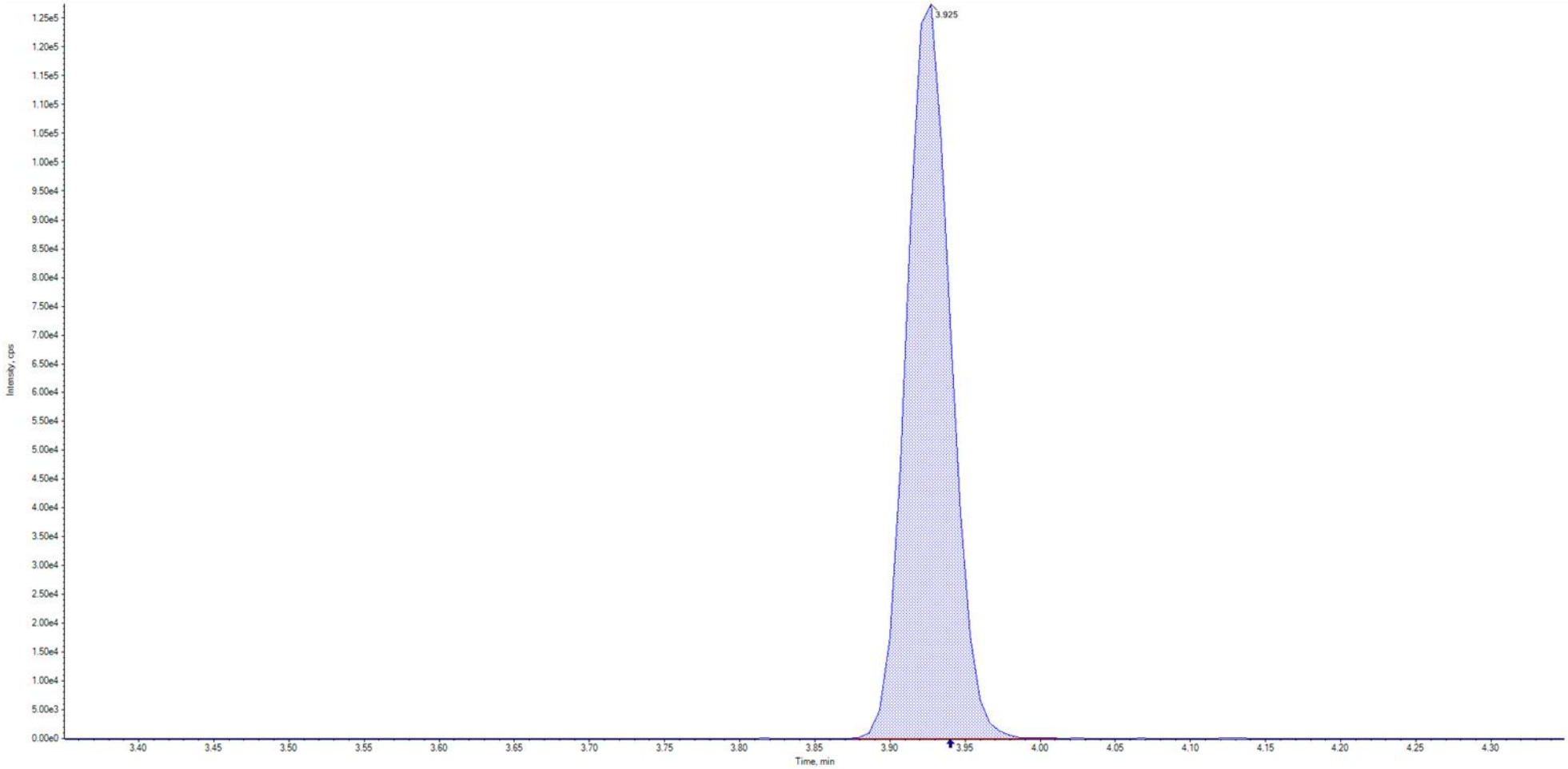
13C2-PFDA
Sample: L2470744-03



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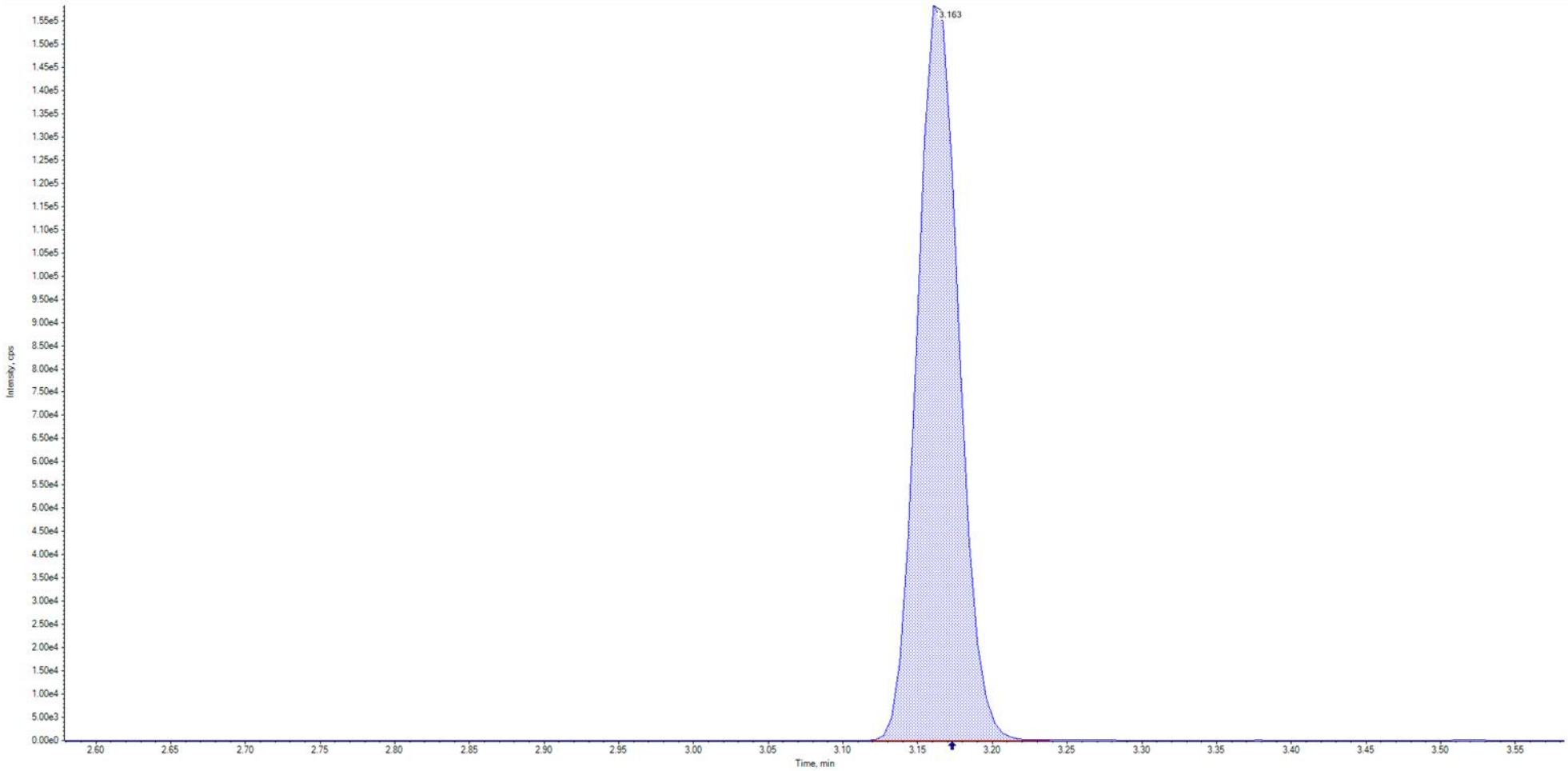
18O2-PFHxS
Sample: L2470744-03



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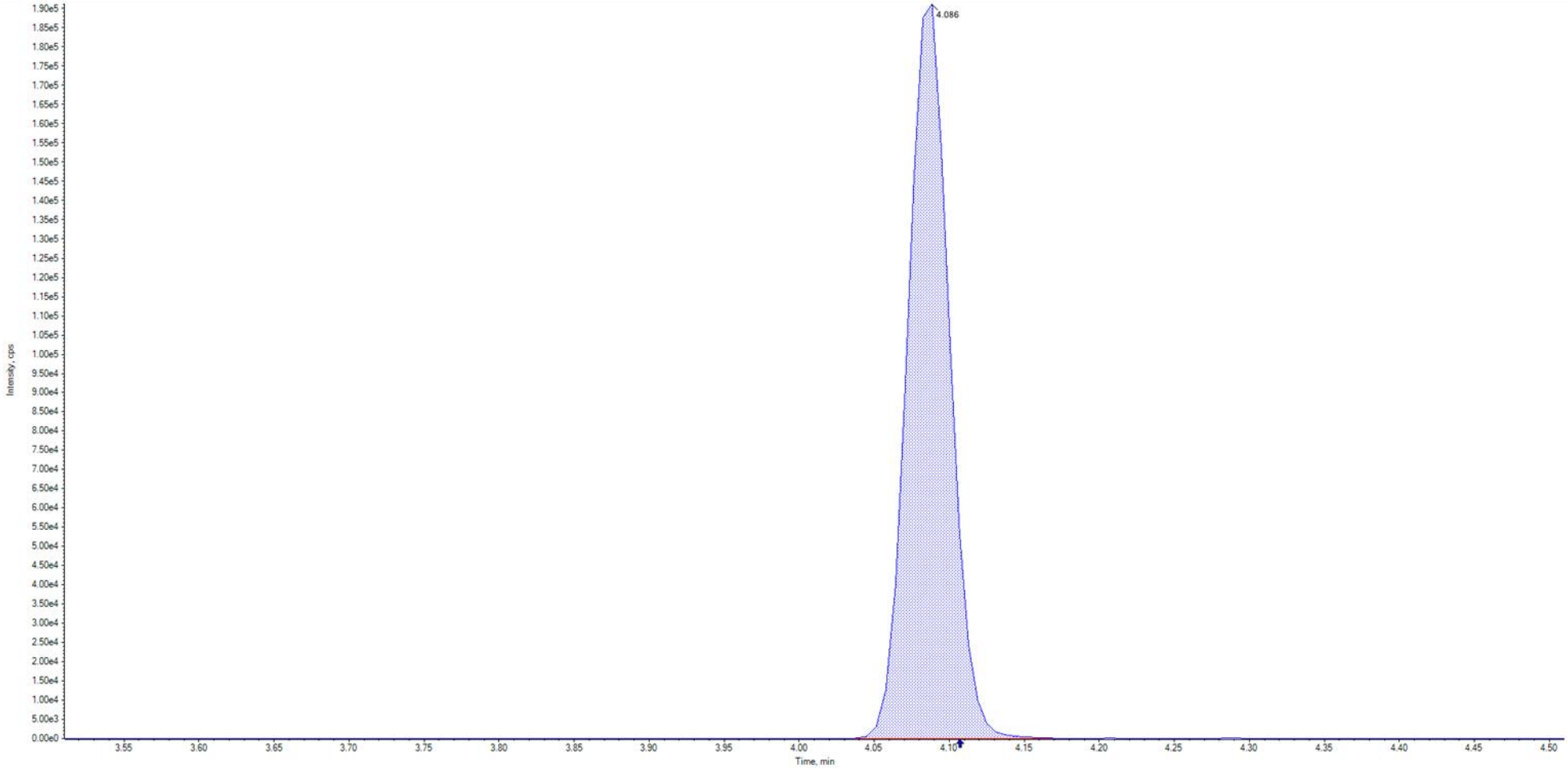
13C4-PFOS
Sample: L2470744-03



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Method: EPA1633F_241217.qmethod
Calibration: 241216_EPA1633_ICAL

ID: L2470744-09
Name: SCI08_241220_39.wiff2
Date & Time: 2024-12-20T10:47:43
Description: WG2011615,WG2010366,ICAL21783
Instrument: SCIEX Triple Quad 5500+
User: LCMS08:AC

LC/MS-MS Method:EPA-1633F

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
1	PFBA	375-22-4	0.63	213.0 / 169.0	22571		0.232	N/A	N/A	N/A	N/A
2	PFPeA	2706-90-3	1.23	263.0 / 219.0	17060		0.187	0.012	0.008	Pass	N/A
3	PFPeA_2	2706-90-3	1.23	263.0 / 68.9	199	M2	0.267	0.012	0.008	Pass	N/A
4	PFHxA	307-24-4	1.99	313.0 / 269.0	24822		0.183	0.099	0.084	Pass	N/A
5	PFHxA_2	307-24-4	1.99	313.0 / 119.0	2458		0.227	0.099	0.084	Pass	N/A
6	PFHpA	375-85-9	2.57	363.1 / 319.0	23433		0.183	0.441	0.404	Pass	N/A
7	PFHpA_2	375-85-9	2.57	363.1 / 169.0	10345		0.191	0.441	0.404	Pass	N/A

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
8	PFOA	335-67-1	3.05	413.1 / 369.1	81471	M5	0.693	0.560	0.562	Pass	N/A
9	PFOA_2	335-67-1	3.05	413.1 / 169.0	45611	M5	0.744	0.560	0.562	Pass	N/A
10	PFNA	375-95-1	3.49	462.8 / 418.9	29278	M5	0.288	0.348	0.464	Pass	N/A
11	PFNA_2	375-95-1	3.50	462.8 / 219.0	10198	M5	0.220	0.348	0.464	Pass	N/A
12	PFDA	335-76-2	3.93	513.1 / 469.1	8207		0.059	0.115	0.264	Fail	N/A
13	PFDA_2	335-76-2	3.93	513.1 / 219.0	941	M2	0.027	0.115	0.264	Fail	N/A
14	PFUnA	2058-94-8	N/A	563.1 / 519.1	N/A		N/A	N/A	0.204	N/A	N/A
15	PFUnA_2	2058-94-8	N/A	563.1 / 269.0	N/A		N/A	N/A	0.204	N/A	N/A
16	PFDoA	307-55-1	N/A	613.1 / 569.1	N/A		N/A	N/A	0.194	N/A	N/A
17	PFDoA_2	307-55-1	N/A	613.1 / 319.0	N/A		N/A	N/A	0.194	N/A	N/A
18	PFTrDA	72629-94-8	N/A	663.1 / 619.1	N/A		N/A	N/A	0.193	N/A	N/A
19	PFTrDA_2	72629-94-8	N/A	663.1 / 169.0	N/A		N/A	N/A	0.193	N/A	N/A
20	PFTeDA	376-06-7	N/A	713.1 / 669.1	N/A		N/A	N/A	0.163	N/A	N/A
21	PFTeDA_2	376-06-7	N/A	713.1 / 169.0	N/A		N/A	N/A	0.163	N/A	N/A
22	PFBS	375-73-5	2.00	299.1 / 80.1	21172		0.114	0.344	0.353	Pass	N/A

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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
23	PFBS_2	375-73-5	2.00	299.1 / 99.1	7282		0.114	0.344	0.353	Pass	N/A
24	PFPeS	2706-91-4	N/A	349.1 / 80.1	N/A		N/A	N/A	0.294	N/A	N/A
25	PFPeS_2	2706-91-4	N/A	349.1 / 99.1	N/A		N/A	N/A	0.294	N/A	N/A
26	PFHxS	355-46-4	3.16	399.1 / 80.1	57513	M5	0.366	0.249	0.292	Pass	N/A
27	PFHxS_2	355-46-4	3.16	399.1 / 99.1	14330	M5	0.312	0.249	0.292	Pass	N/A
28	PFHpS	375-92-8	N/A	449.1 / 80.1	N/A		N/A	N/A	0.274	N/A	N/A
29	PFHpS_2	375-92-8	N/A	449.1 / 99.1	N/A		N/A	N/A	0.274	N/A	N/A
30	PFOS	1763-23-1	4.04	499.1 / 80.1	349710	M5	1.753	0.188	0.223	Pass	N/A
31	PFOS_2	1763-23-1	4.09	499.1 / 99.1	65790	M5	1.568	0.188	0.223	Pass	N/A
32	PFNS	68259-12-1	N/A	549.1 / 80.1	N/A		N/A	N/A	0.281	N/A	N/A
33	PFNS_2	68259-12-1	N/A	549.1 / 99.1	N/A		N/A	N/A	0.281	N/A	N/A
34	PFDS	335-77-3	N/A	599.1 / 80.1	N/A		N/A	N/A	0.267	N/A	N/A
35	PFDS_2	335-77-3	N/A	599.1 / 99.1	N/A		N/A	N/A	0.267	N/A	N/A
36	PFDoS	79780-39-5	N/A	699.2 / 80.1	N/A		N/A	N/A	0.225	N/A	N/A
37	PFDoS_2	79780-39-5	N/A	699.2 / 99.1	N/A		N/A	N/A	0.225	N/A	N/A

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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
38	4:2FTS	757124-72-4	N/A	327.1 / 307.1	N/A		N/A	N/A	0.637	N/A	N/A
39	4:2FTS_2	757124-72-4	N/A	327.1 / 81.1	N/A		N/A	N/A	0.637	N/A	N/A
40	6:2FTS	27619-97-2	N/A	427.2 / 407.2	N/A		N/A	N/A	0.571	N/A	N/A
41	6:2FTS_2	27619-97-2	N/A	427.2 / 81.1	N/A		N/A	N/A	0.571	N/A	N/A
42	8:2FTS	39108-34-4	N/A	527.2 / 507.2	N/A		N/A	N/A	0.758	N/A	N/A
43	8:2FTS_2	39108-34-4	N/A	527.2 / 81.1	N/A		N/A	N/A	0.758	N/A	N/A
44	PFOSA	754-91-6	N/A	498.1 / 78.1	N/A		N/A	N/A	0.023	N/A	N/A
45	PFOSA_2	754-91-6	N/A	498.1 / 478.0	N/A		N/A	N/A	0.023	N/A	N/A
46	NMeFOSA	31506-32-8	N/A	512.2 / 219.0	N/A		N/A	N/A	1.447	N/A	N/A
47	NMeFOSA_2	31506-32-8	N/A	512.2 / 169.0	N/A		N/A	N/A	1.447	N/A	N/A
48	NEtFOSA	4151-50-2	N/A	526.2 / 219.0	N/A		N/A	N/A	1.299	N/A	N/A
49	NEtFOSA_2	4151-50-2	N/A	526.2 / 169.0	N/A		N/A	N/A	1.299	N/A	N/A
50	NMeFOSAA	2355-31-9	N/A	570.2 / 419.1	N/A		N/A	N/A	0.605	N/A	N/A
51	NMeFOSAA_2	2355-31-9	N/A	570.2 / 483.0	N/A		N/A	N/A	0.605	N/A	N/A
52	NEtFOSAA	2991-50-6	N/A	584.2 / 419.1	N/A		N/A	N/A	0.518	N/A	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
53	NEtFOSAA_2	2991-50-6	N/A	584.2 / 526.2	N/A		N/A	N/A	0.518	N/A	N/A
54	NMeFOSE	24448-09-7	N/A	616.1 / 58.9	N/A		N/A	N/A	N/A	N/A	N/A
55	NEtFOSE	1691-99-2	N/A	630.0 / 58.9	N/A		N/A	N/A	N/A	N/A	N/A
56	HFPO-DA	13252-13-6	N/A	285.0 / 169.0	N/A		N/A	N/A	0.474	N/A	N/A
57	HFPO-DA_2	13252-13-6	N/A	285.0 / 184.9	N/A		N/A	N/A	0.474	N/A	N/A
58	ADONA	919005-14-4	N/A	376.9 / 251.0	N/A		N/A	N/A	0.740	N/A	N/A
59	ADONA_2	919005-14-4	N/A	376.9 / 84.8	N/A		N/A	N/A	0.740	N/A	N/A
60	9Cl-PF3ONS	756426-58-1	N/A	530.8 / 351.1	N/A		N/A	N/A	0.340	N/A	N/A
61	9Cl-PF3ONS_2	756426-58-1	N/A	532.8 / 353.0	N/A		N/A	N/A	0.340	N/A	N/A
62	11Cl-PF3OUdS	763051-92-9	N/A	630.9 / 451.0	N/A		N/A	N/A	0.328	N/A	N/A
63	11Cl-PF3OUdS_2	763051-92-9	N/A	632.9 / 452.9	N/A		N/A	N/A	0.328	N/A	N/A
64	3:3FTCA	356-02-5	N/A	241.1 / 177.1	N/A		N/A	N/A	0.996	N/A	N/A
65	3:3FTCA_2	356-02-5	N/A	241.1 / 117.0	N/A		N/A	N/A	0.996	N/A	N/A
66	5:3FTCA	914637-49-3	N/A	341.1 / 237.1	N/A		N/A	N/A	1.037	N/A	N/A
67	5:3FTCA_2	914637-49-3	N/A	341.1 / 217.0	N/A		N/A	N/A	1.037	N/A	N/A

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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
68	7:3FTCA	812-70-4	N/A	441.1 / 316.9	N/A		N/A	N/A	1.181	N/A	N/A
69	7:3FTCA_2	812-70-4	N/A	441.1 / 337.1	N/A		N/A	N/A	1.181	N/A	N/A
70	PFEESA	113507-82-7	N/A	315.1 / 135.0	N/A		N/A	N/A	0.078	N/A	N/A
71	PFEESA_2	113507-82-7	N/A	315.1 / 82.9	N/A		N/A	N/A	0.078	N/A	N/A
72	PFMPA	377-73-1	N/A	229.0 / 85.0	N/A		N/A	N/A	N/A	N/A	N/A
73	PFMBA	863090-89-5	N/A	279.0 / 85.0	N/A		N/A	N/A	N/A	N/A	N/A
74	NFDHA	151772-58-6	N/A	295.0 / 201.0	N/A		N/A	N/A	0.765	N/A	N/A
75	NFDHA_2	151772-58-6	N/A	295.0 / 84.9	N/A		N/A	N/A	0.765	N/A	N/A
76	TDCA	516-50-7	N/A	499.1 / 124.1	N/A		N/A	N/A	5.845	N/A	N/A
77	TDCA_2	516-50-7	N/A	499.1 / 79.9	N/A		N/A	N/A	5.845	N/A	N/A
78	13C2D4-4:2FTS	Surr	N/A	333.2 / 312.1	N/A		N/A	N/A	N/A	N/A	N/A
79	13C2-PFOA	Surr	N/A	415.0 / 370.0	N/A		N/A	N/A	N/A	N/A	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C4-PFBA	EIS	0.62	217.0 / 172.0	1176135		10.202	NA	NA	NA	102.0

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Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
13C5-PFPeA	EIS	1.22	268.0 / 223.0	505668		5.261	NA	NA	NA	105.2
13C5-PFHxA	EIS	1.99	318.0 / 273.0	319966		2.688	NA	NA	NA	107.5
13C4-PFHpA	EIS	2.56	367.0 / 322.0	376159		2.504	NA	NA	NA	100.2
13C8-PFOA	EIS	3.04	420.8 / 376.0	421540		2.504	NA	NA	NA	100.1
13C9-PFNA	EIS	3.49	472.0 / 427.0	210918		1.363	NA	NA	NA	109.0
13C6-PFDA	EIS	3.93	519.0 / 474.0	269699		1.248	NA	NA	NA	99.8
13C7-PFUnA	EIS	4.34	570.0 / 525.0	262091		1.142	NA	NA	NA	91.3

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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C2-PFDoA	EIS	4.75	615.1 / 570.0	238644		1.263	NA	NA	NA	101.1
	13C2-PFTeDA	EIS	5.54	715.1 / 670.1	216504		0.976	NA	NA	NA	78.1
	13C3-PFBS	EIS	2.00	302.1 / 80.1	459845		2.516	NA	NA	NA	108.0
	13C3-PFHxS	EIS	3.16	402.1 / 80.1	384300		2.479	NA	NA	NA	104.6
	13C8-PFOS	EIS	4.09	507.1 / 80.1	467697		2.401	NA	NA	NA	100.0
	13C2-4:2FTS	EIS	1.77	329.1 / 81.1	98798		5.731	NA	NA	NA	122.2
	13C2-6:2FTS	EIS	2.85	429.2 / 81.1	77455		4.714	NA	NA	NA	99.0
	13C2-8:2FTS	EIS	3.73	529.2 / 81.1	92956		4.013	NA	NA	NA	83.6

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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C8-PFOSA	EIS	5.18	506.1 / 78.1	633027		2.262	NA	NA	NA	90.5
	d3-NMeFOSA	EIS	5.91	515.2 / 219.0	83401		1.902	NA	NA	NA	76.1
	d5-NEtFOSA	EIS	6.21	531.2 / 219.0	87536		2.017	NA	NA	NA	80.7
	d3-NMeFOSAA	EIS	4.02	573.2 / 419.1	156902		4.476	NA	NA	NA	89.5
	d5-NEtFOSAA	EIS	4.23	589.3 / 419.1	134205		4.567	NA	NA	NA	91.3
	d7-NMeFOSE	EIS	5.76	623.2 / 58.9	781769		24.839	NA	NA	NA	99.4
	d9-NEtFOSE	EIS	6.06	639.2 / 58.9	974675		25.036	NA	NA	NA	100.1

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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C3-HFPO-DA	EIS	2.20	287.0 / 169.0	1137344		10.413	NA	NA	NA	104.1
	13C3-PFBA	NIS	0.62	216.0 / 172.0	506072		5.128	NA	NA	NA	102.6
	13C2-PFHxA	NIS	1.99	315.0 / 270.0	318252		2.327	NA	NA	NA	93.1
	13C4-PFOA	NIS	3.04	417.0 / 372.0	326551		2.237	NA	NA	NA	89.5
	13C5-PFNA	NIS	3.49	468.0 / 423.0	194823		1.050	NA	NA	NA	84.0
	13C2-PFDA	NIS	3.92	515.1 / 470.1	259487		1.140	NA	NA	NA	91.2
	18O2-PFHxS	NIS	3.16	403.1 / 84.1	319206		2.087	NA	NA	NA	88.1
	13C4-PFOS	NIS	4.08	503.1 / 80.1	357992		2.105	NA	NA	NA	87.7

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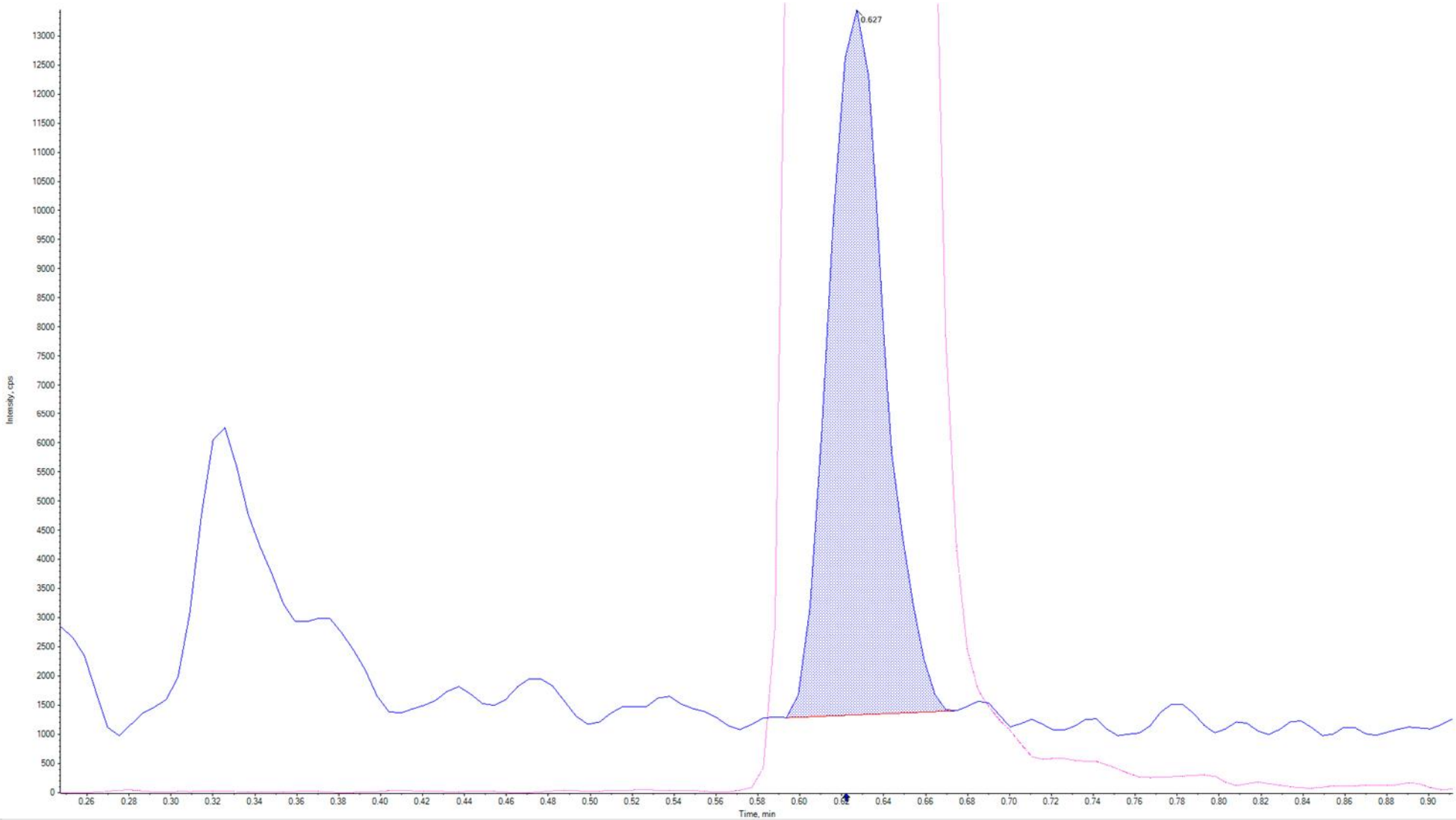
	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec

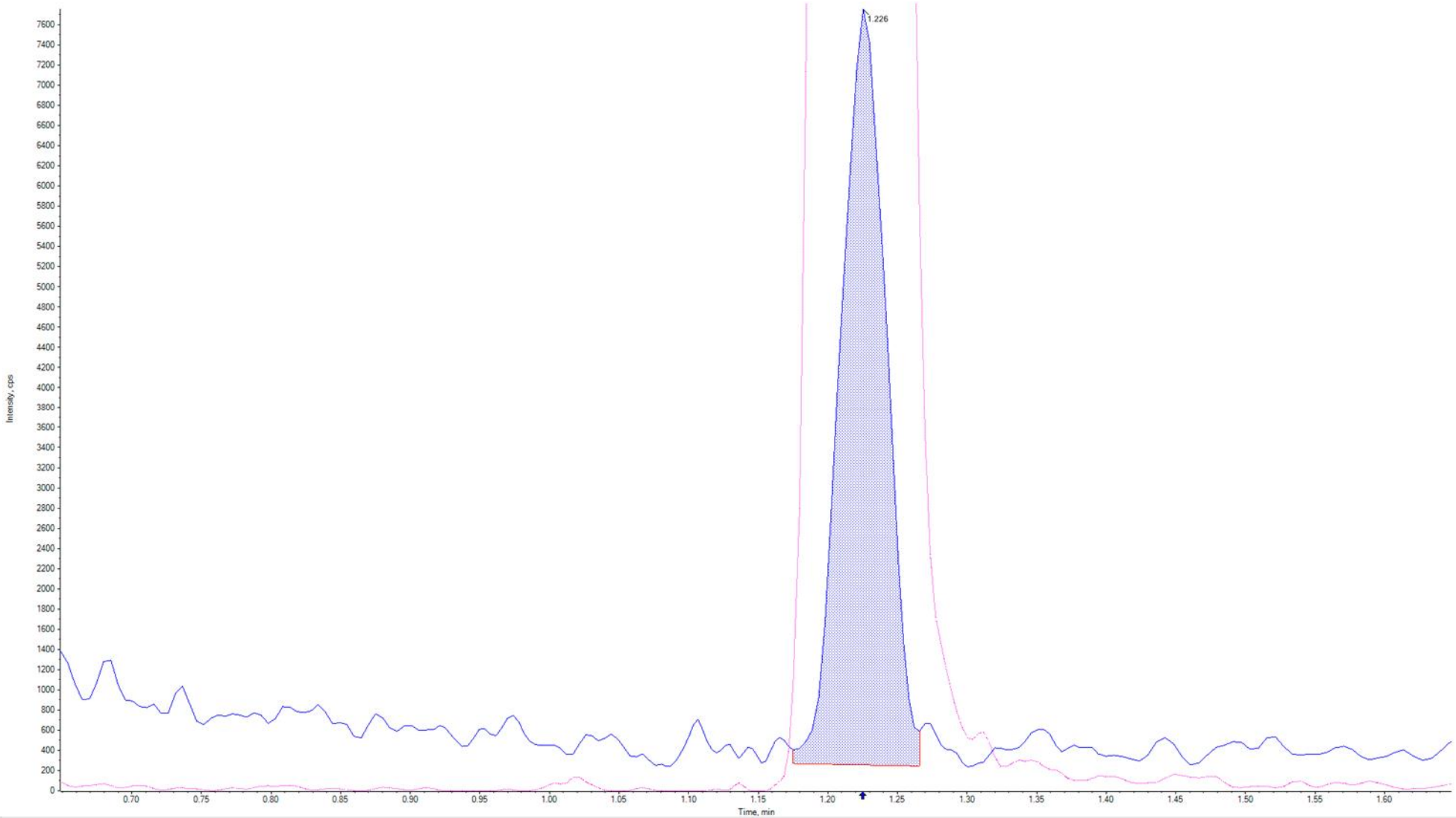
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_39.wiff2_6
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFBA
Sample: L2470744-09 S/N:89.0 Points Across peak:17



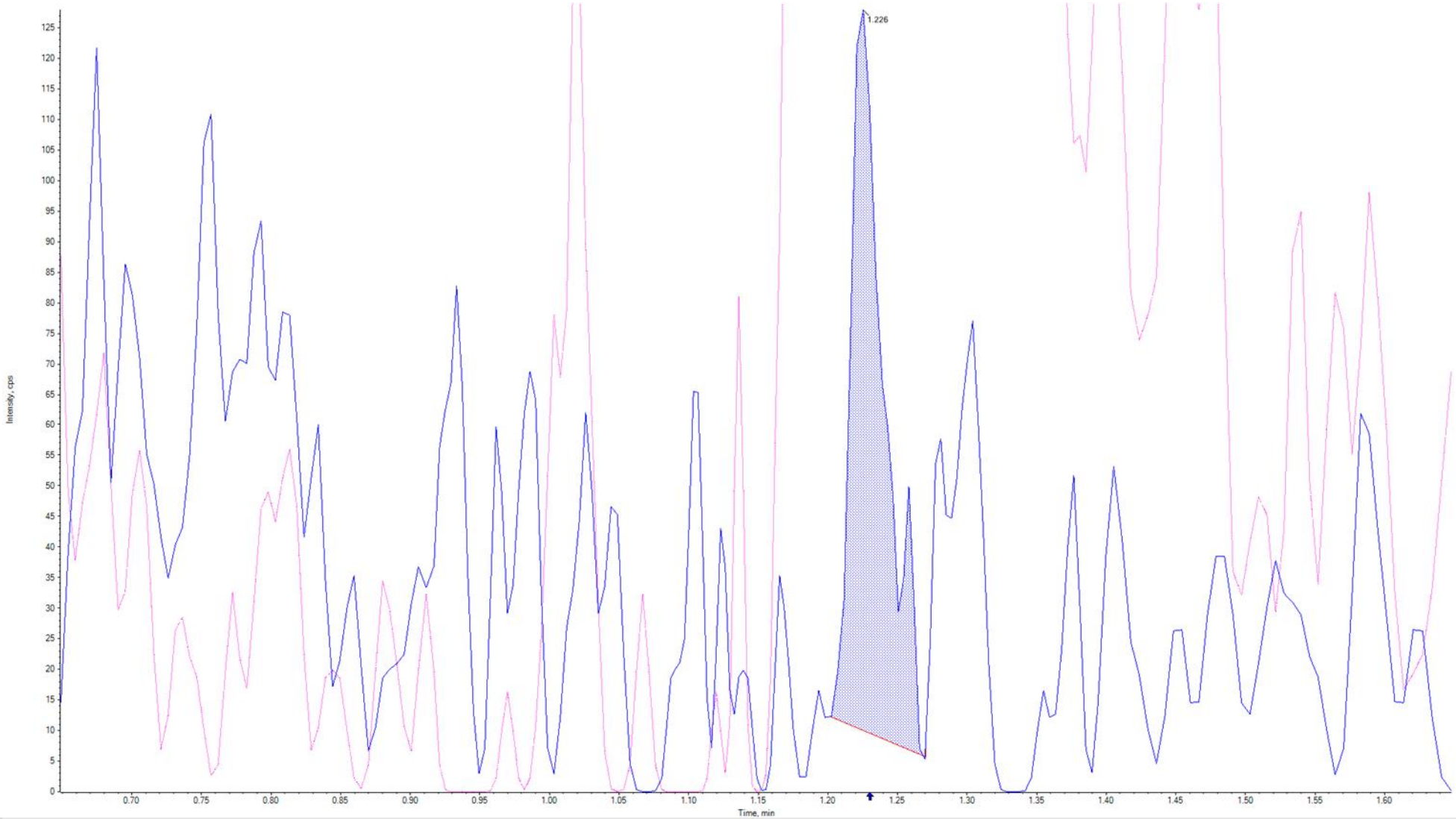
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_39.wiff2_6
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFPeA
Sample: L2470744-09 S/N:203.3 Points Across peak:22



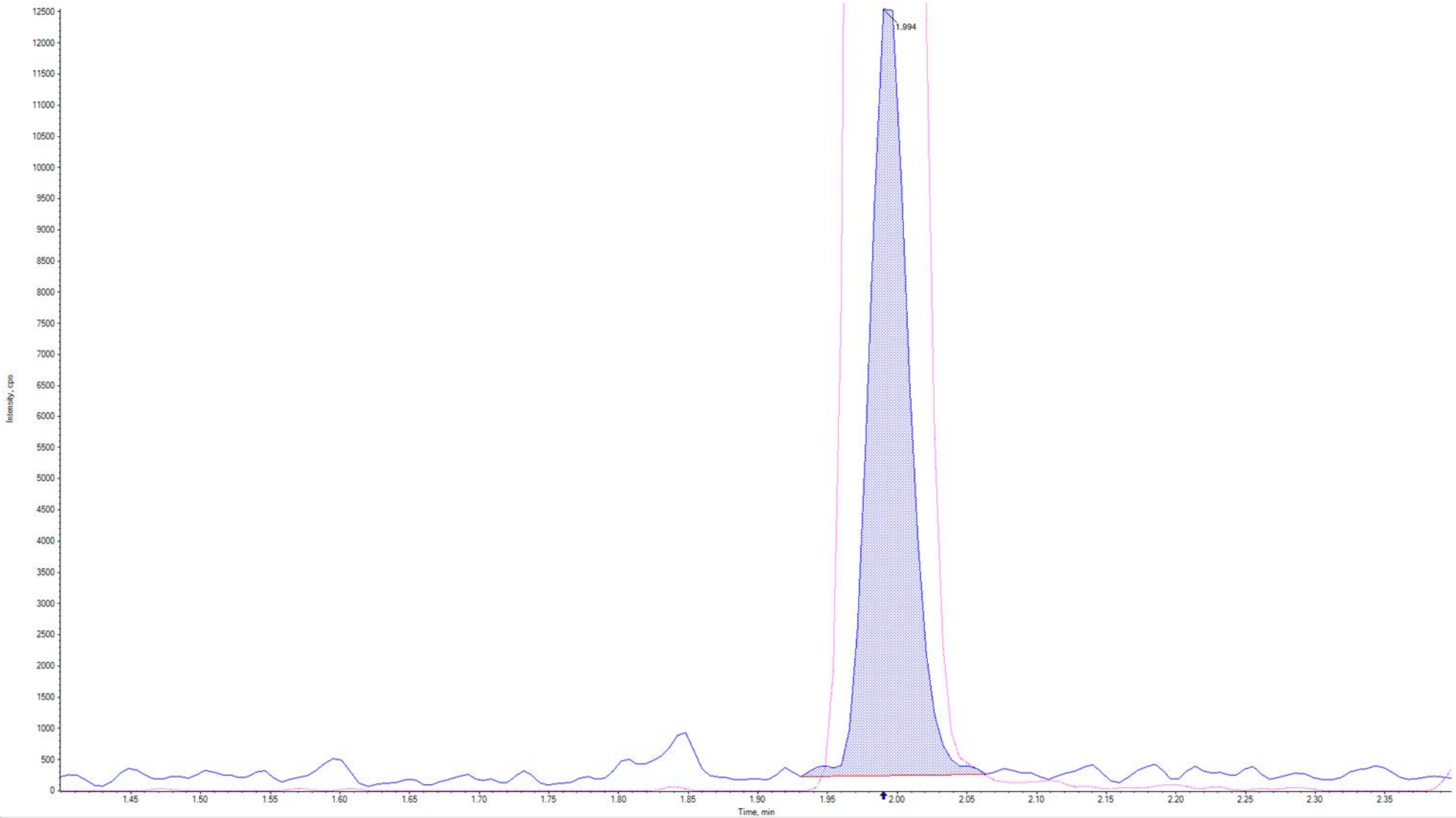
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_39.wiff2_6
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFPeA_2
Sample: L2470744-09 S/N:7.1 Points Across peak:19



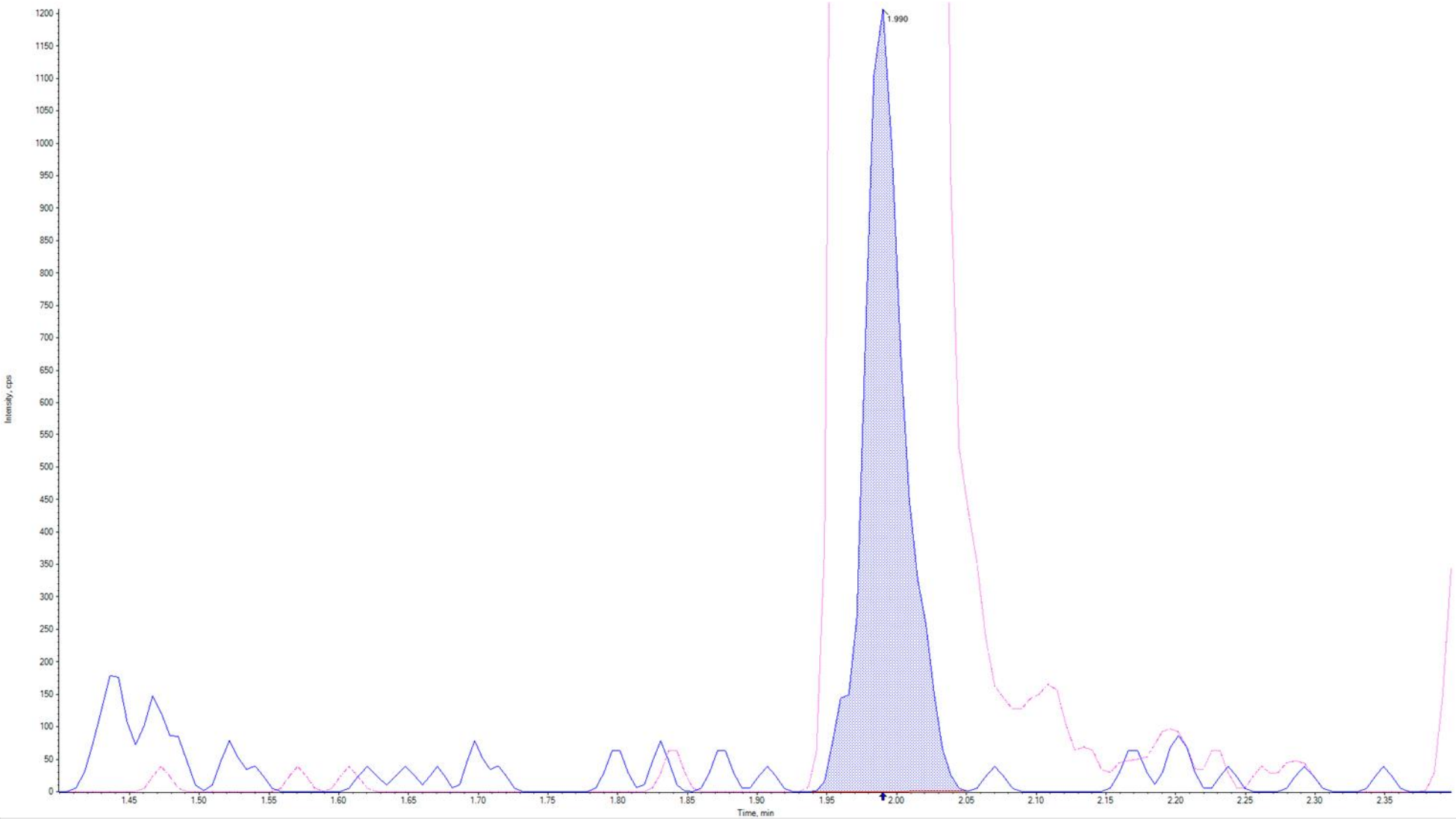
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_39.wiff2_6
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFHxA
Sample: L2470744-09 S/N:308.3 Points Across peak:23



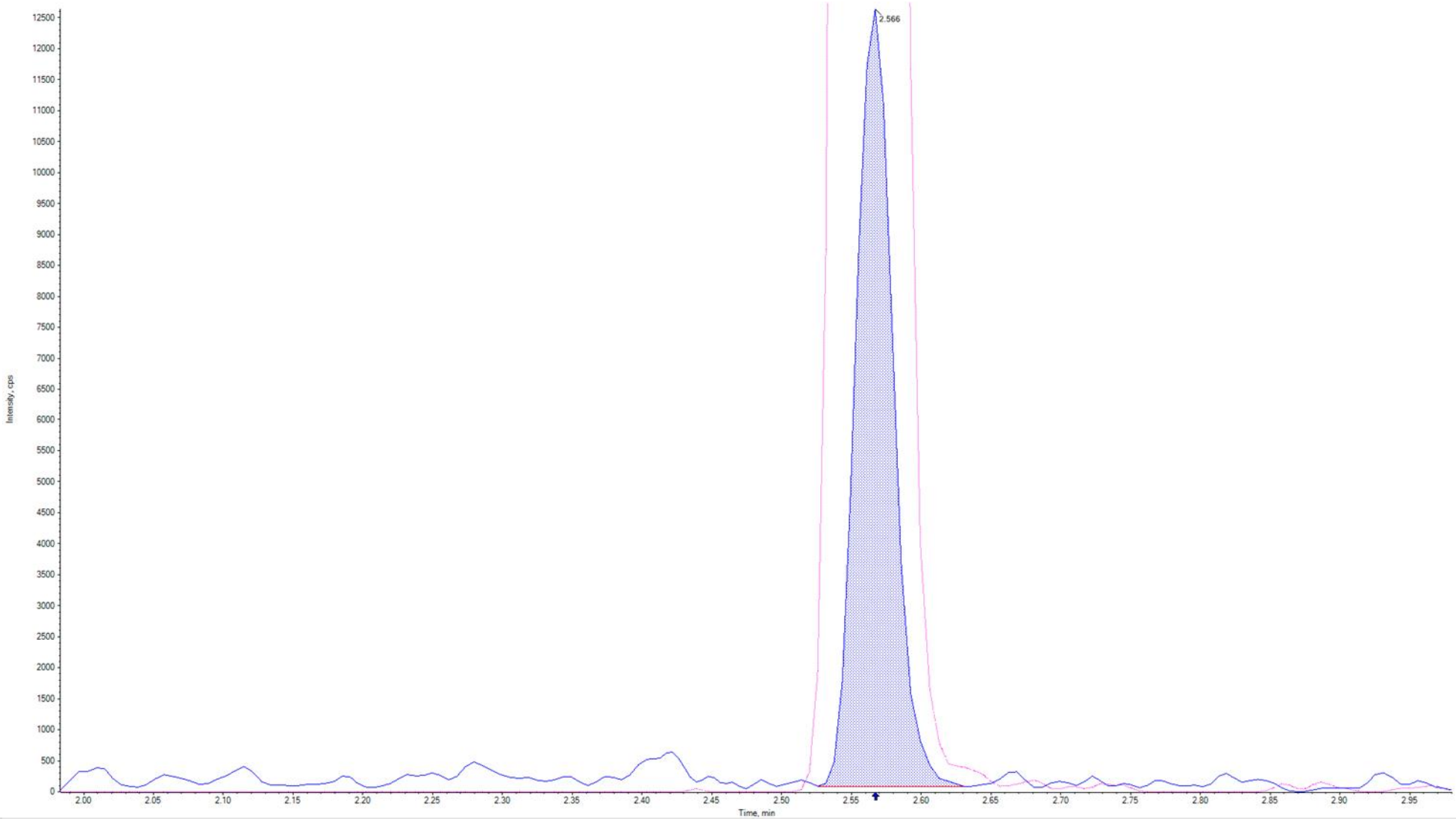
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_39.wiff2_6
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFHxA_2
Sample: L2470744-09 S/N:30.2 Points Across peak:20



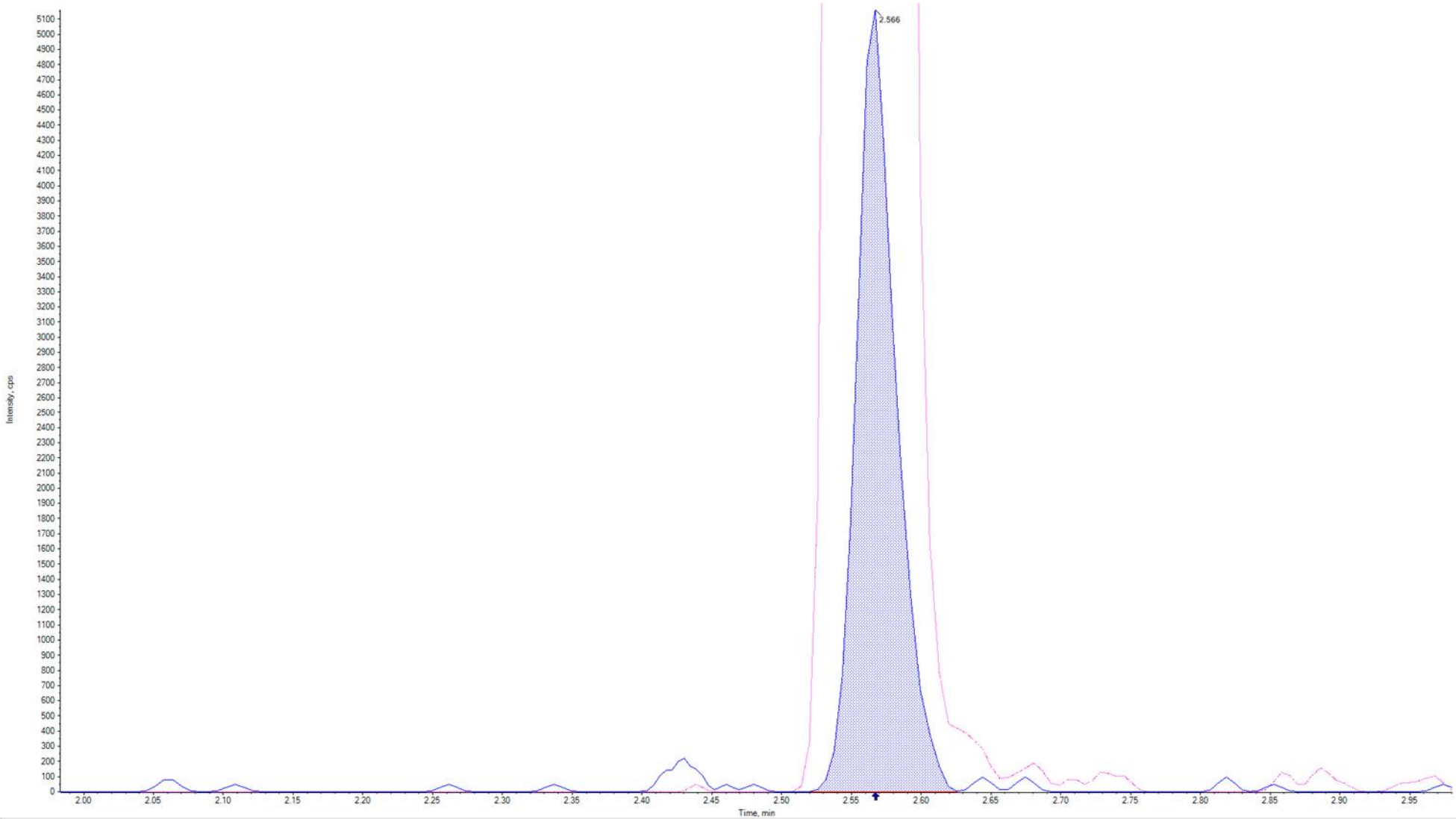
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_39.wiff2_6
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFHpA
Sample: L2470744-09 S/N:251.7 Points Across peak:18



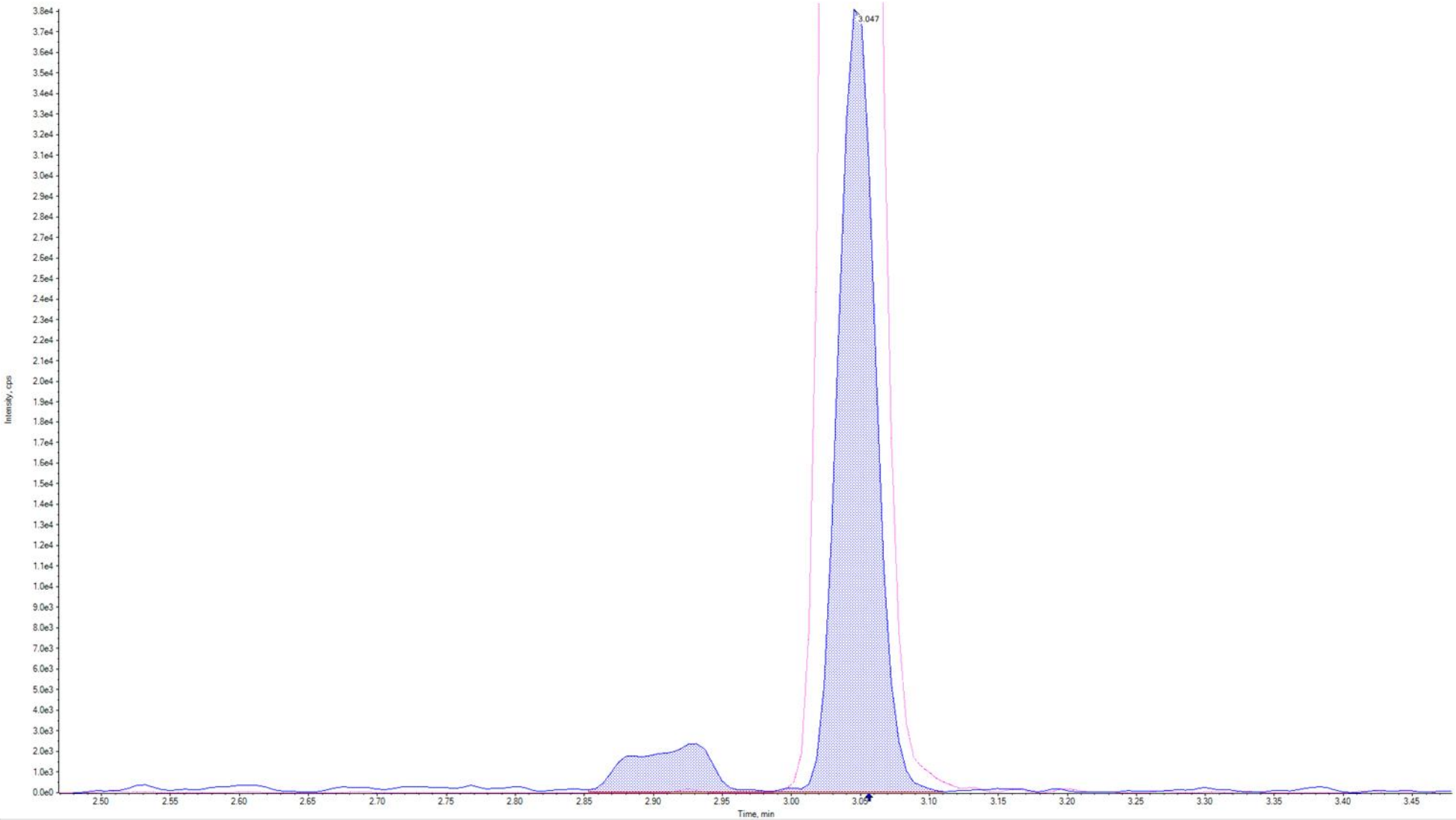
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_39.wiff2_6
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFHpA_2
Sample: L2470744-09 S/N:103.5 Points Across peak:20



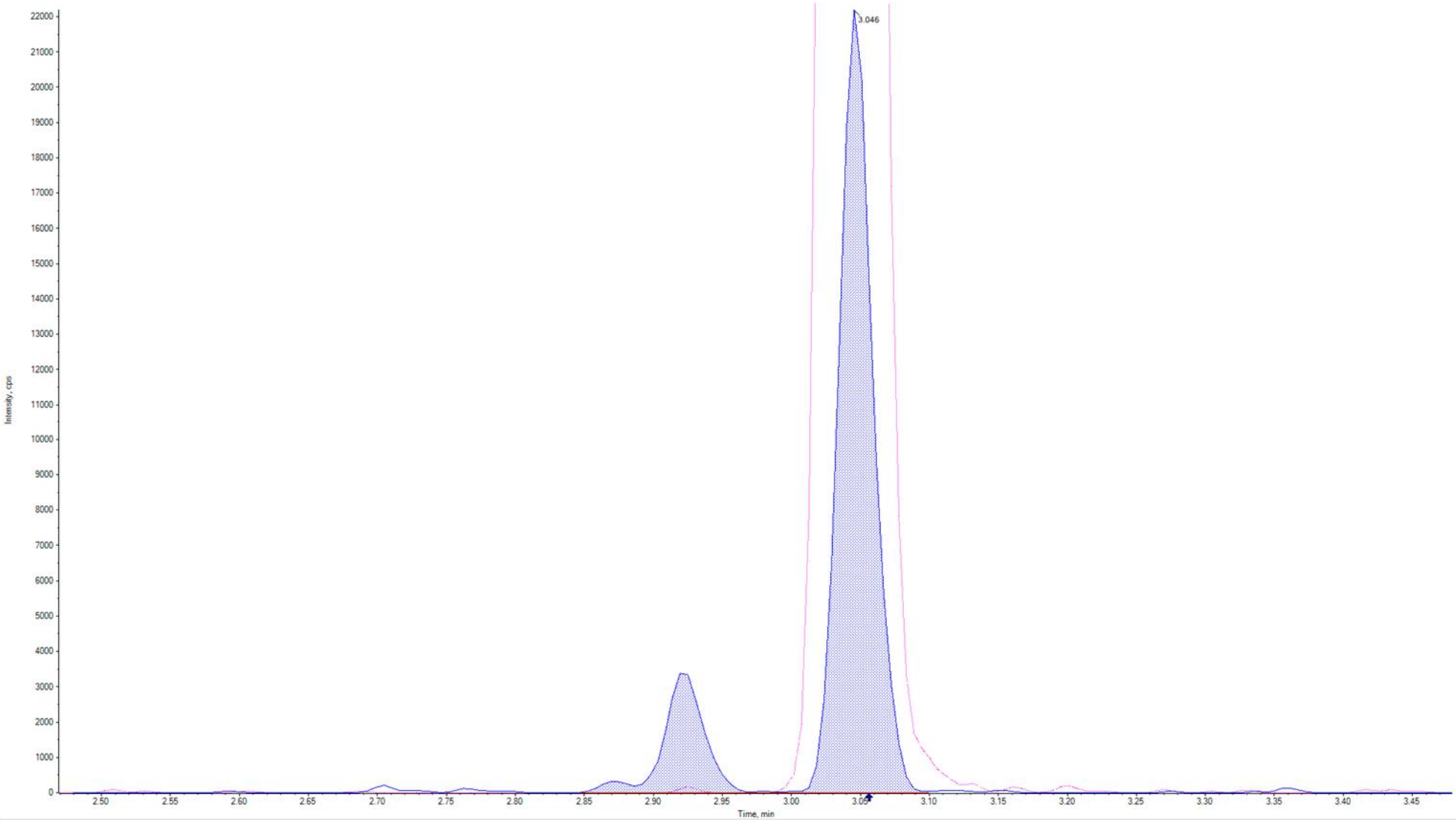
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_39.wiff2_6
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFOA
Sample: L2470744-09 S/N:477.4 Points Across peak:48



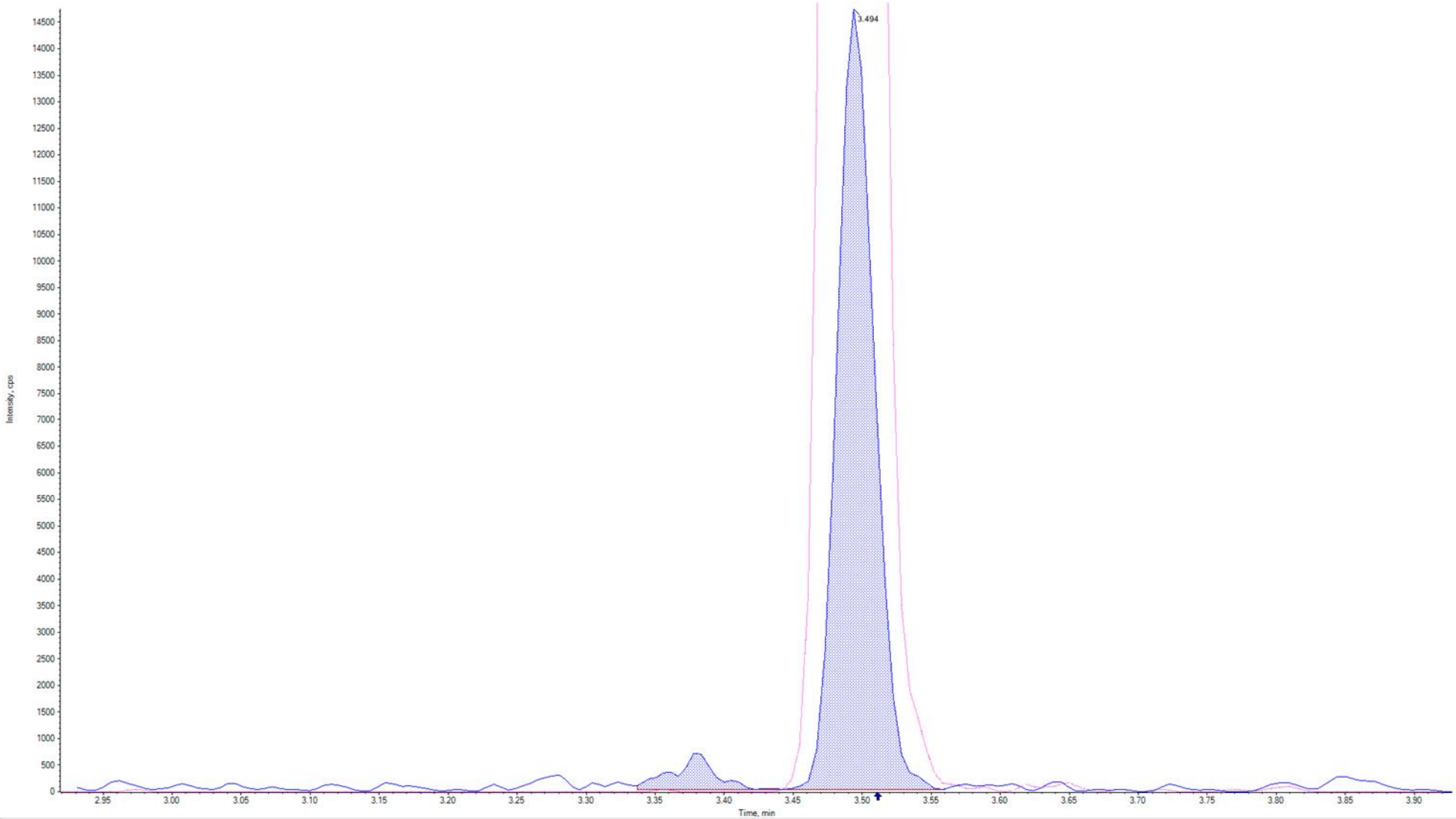
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_39.wiff2_6
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFOA_2
Sample: L2470744-09 S/N:500.6 Points Across peak:47



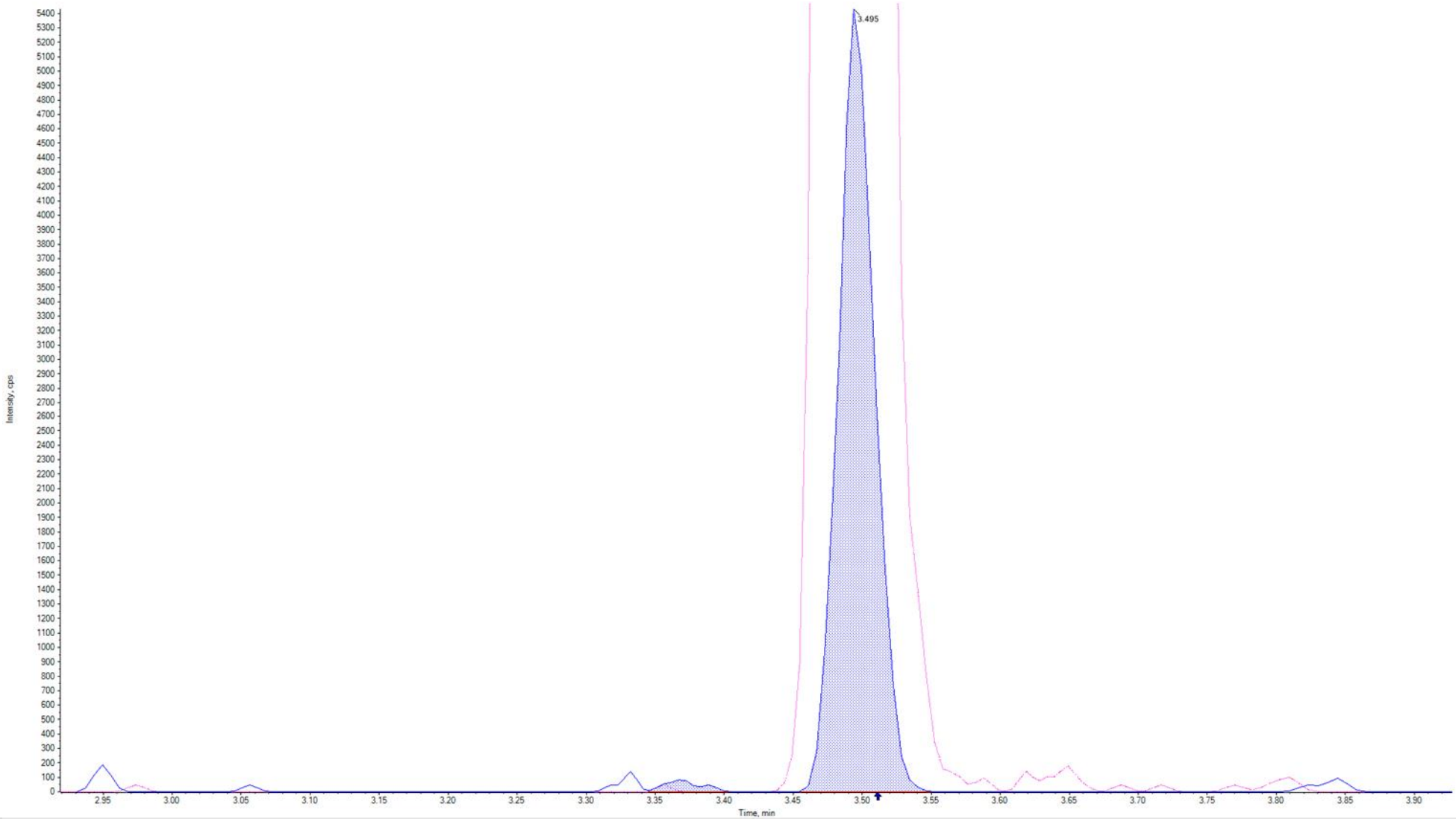
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_39.wiff2_6
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFNA
Sample: L2470744-09 S/N:267.7 Points Across peak:42



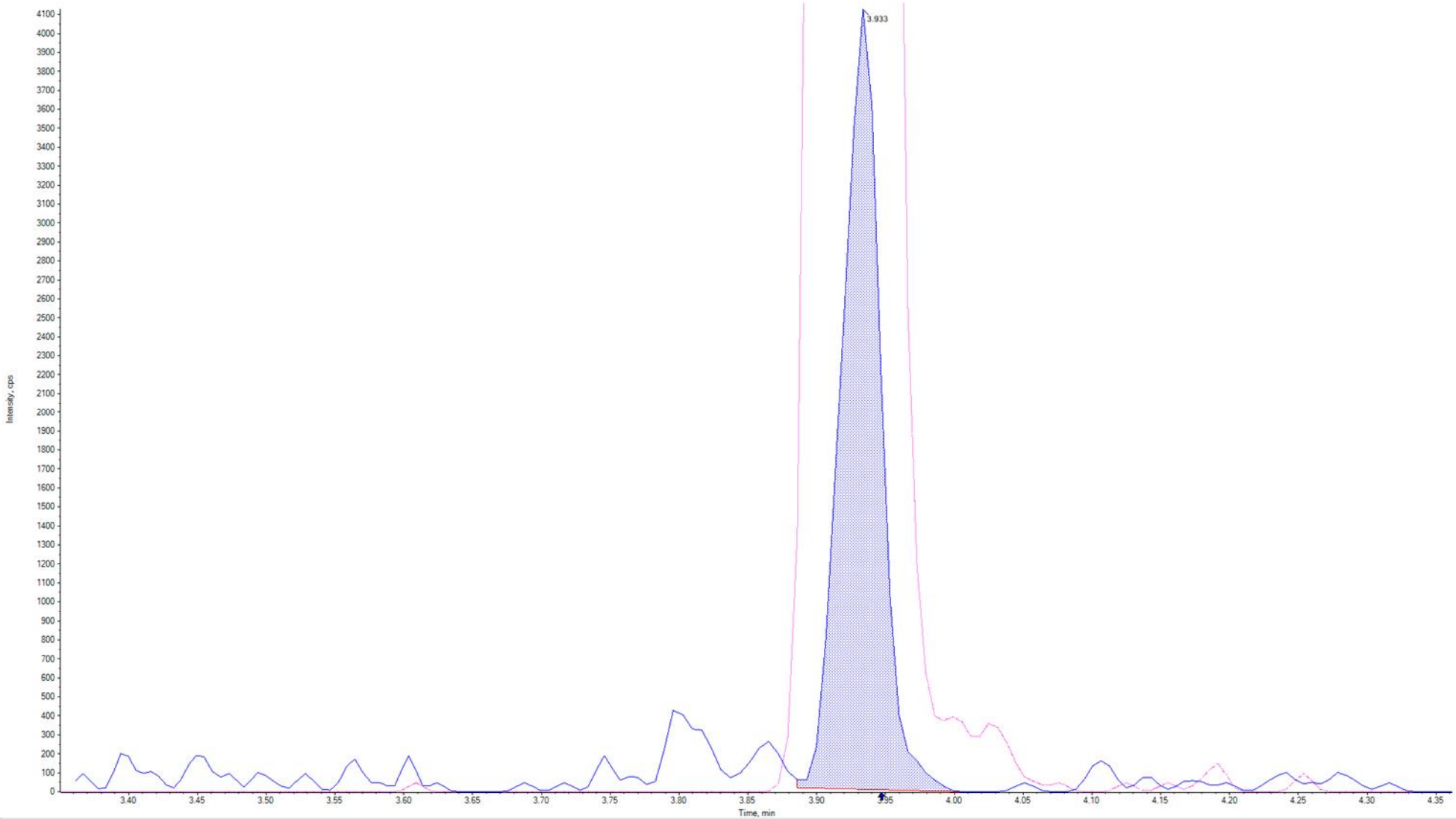
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_39.wiff2_6
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFNA_2
Sample: L2470744-09 S/N:122.5 Points Across peak:40



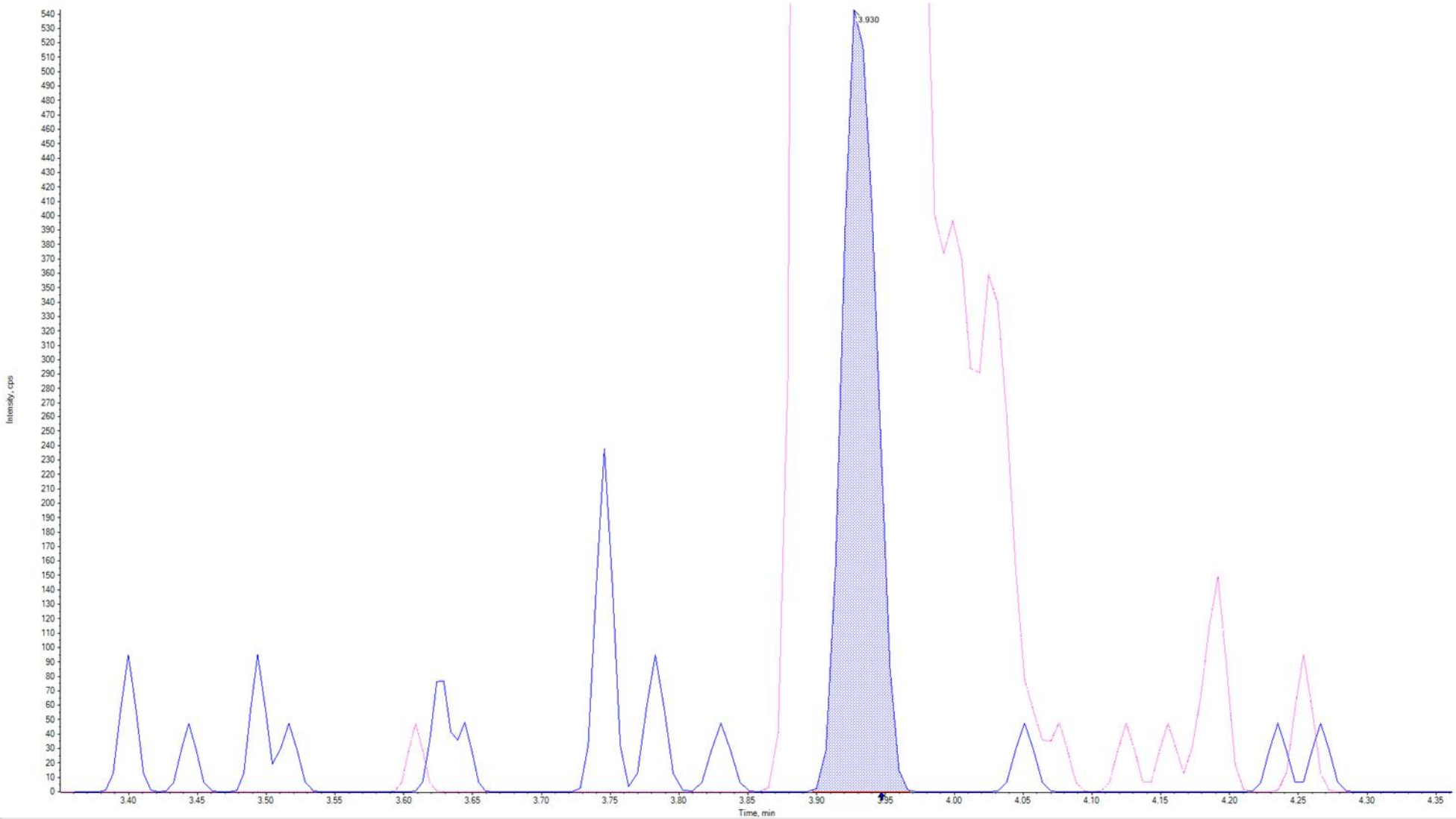
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_39.wiff2_6
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFDA
Sample: L2470744-09 S/N:82.5 Points Across peak:19



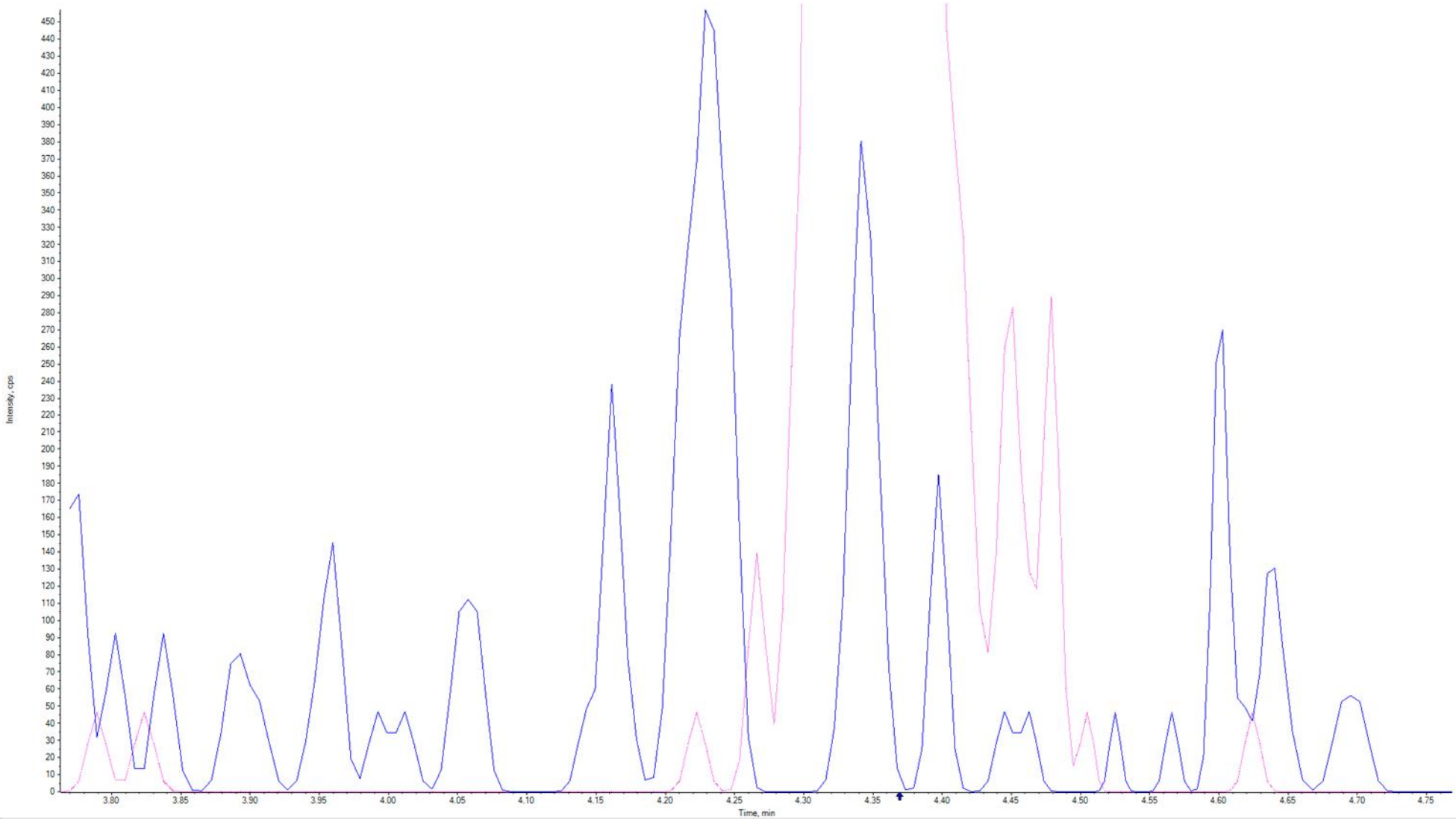
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_39.wiff2_6
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFDA_2
Sample: L2470744-09 S/N:10.9 Points Across peak:13



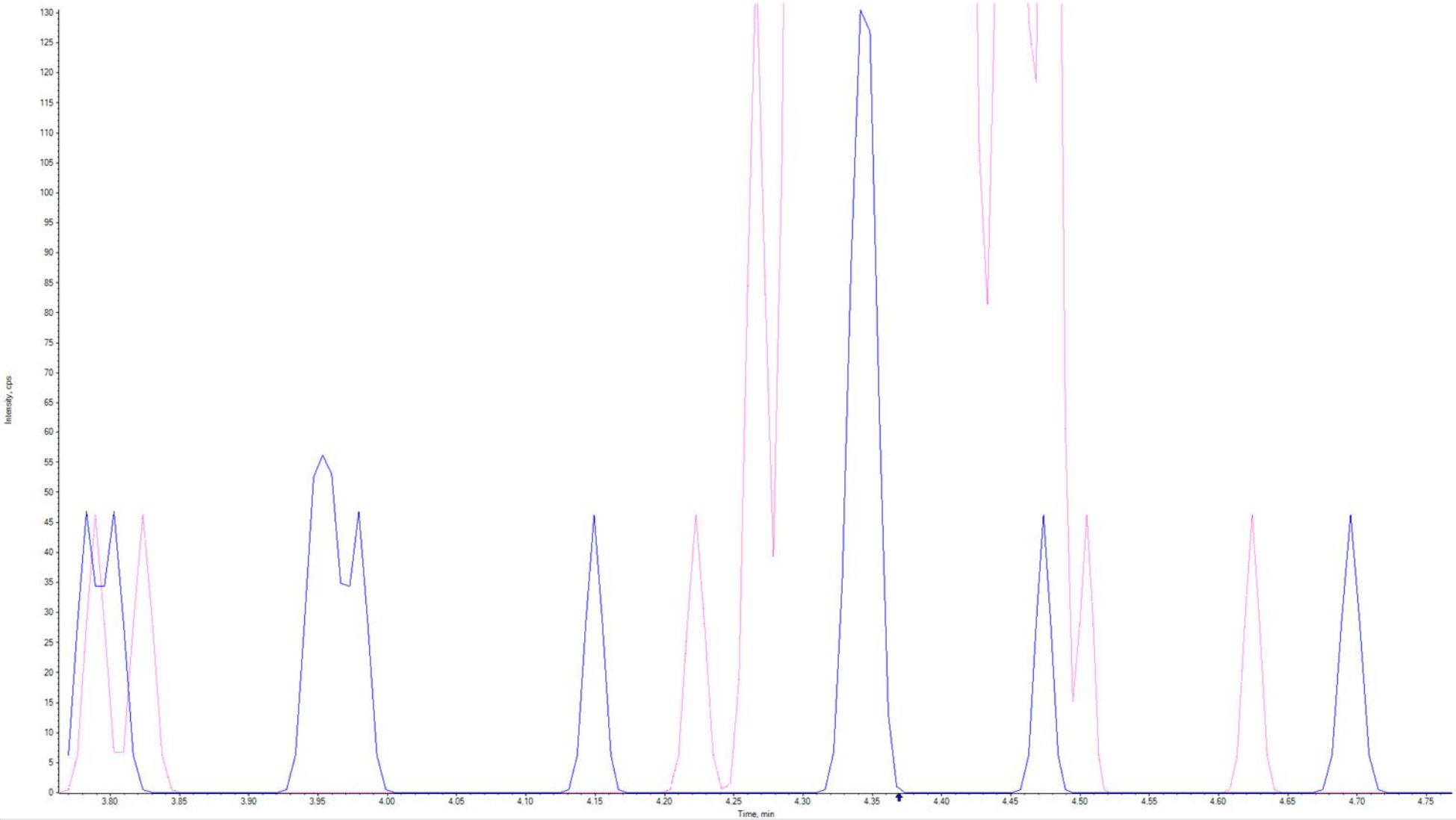
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_39.wiff2_6
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFUnA
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



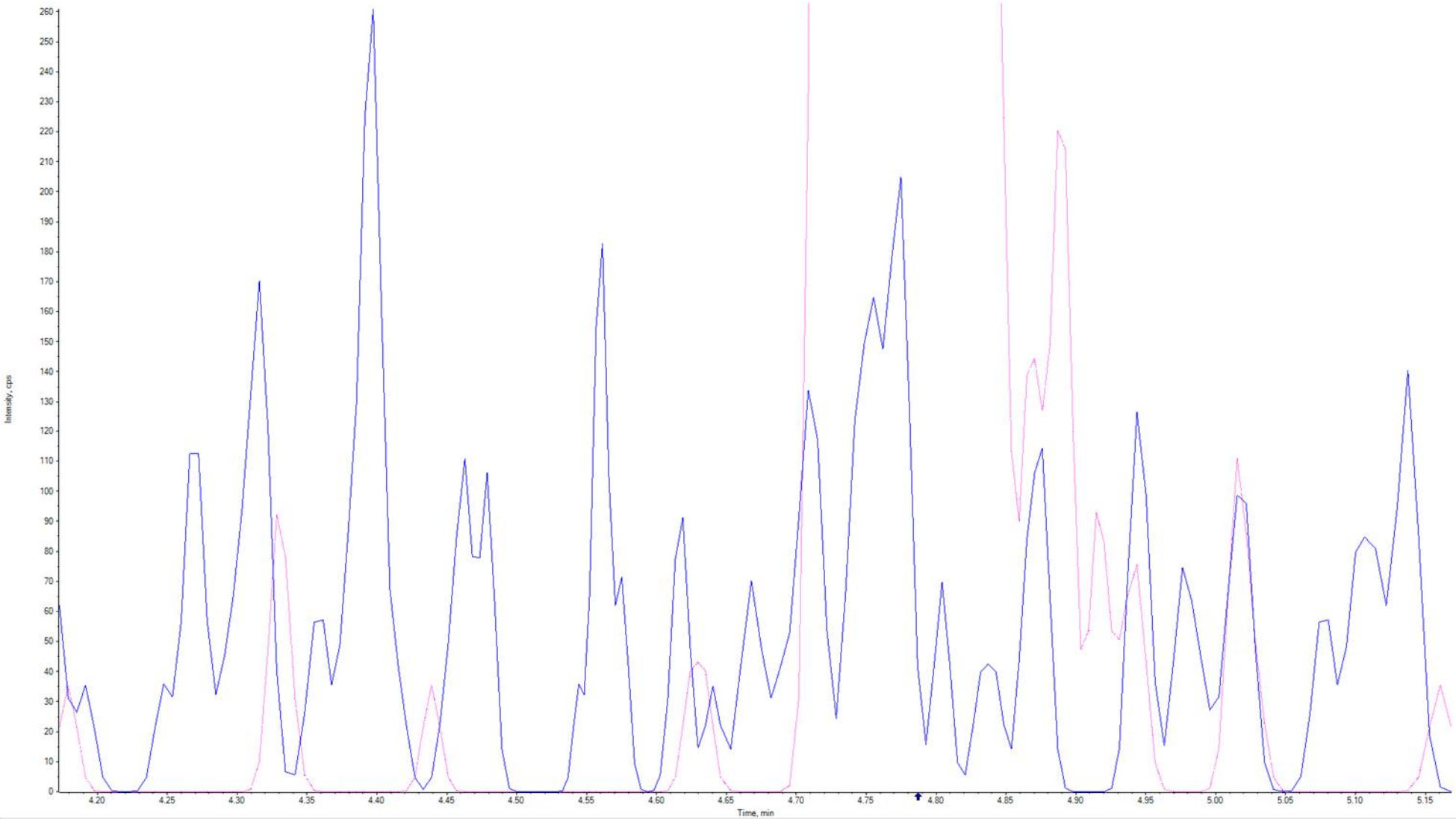
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_39.wiff2_6
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFUnA_2
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



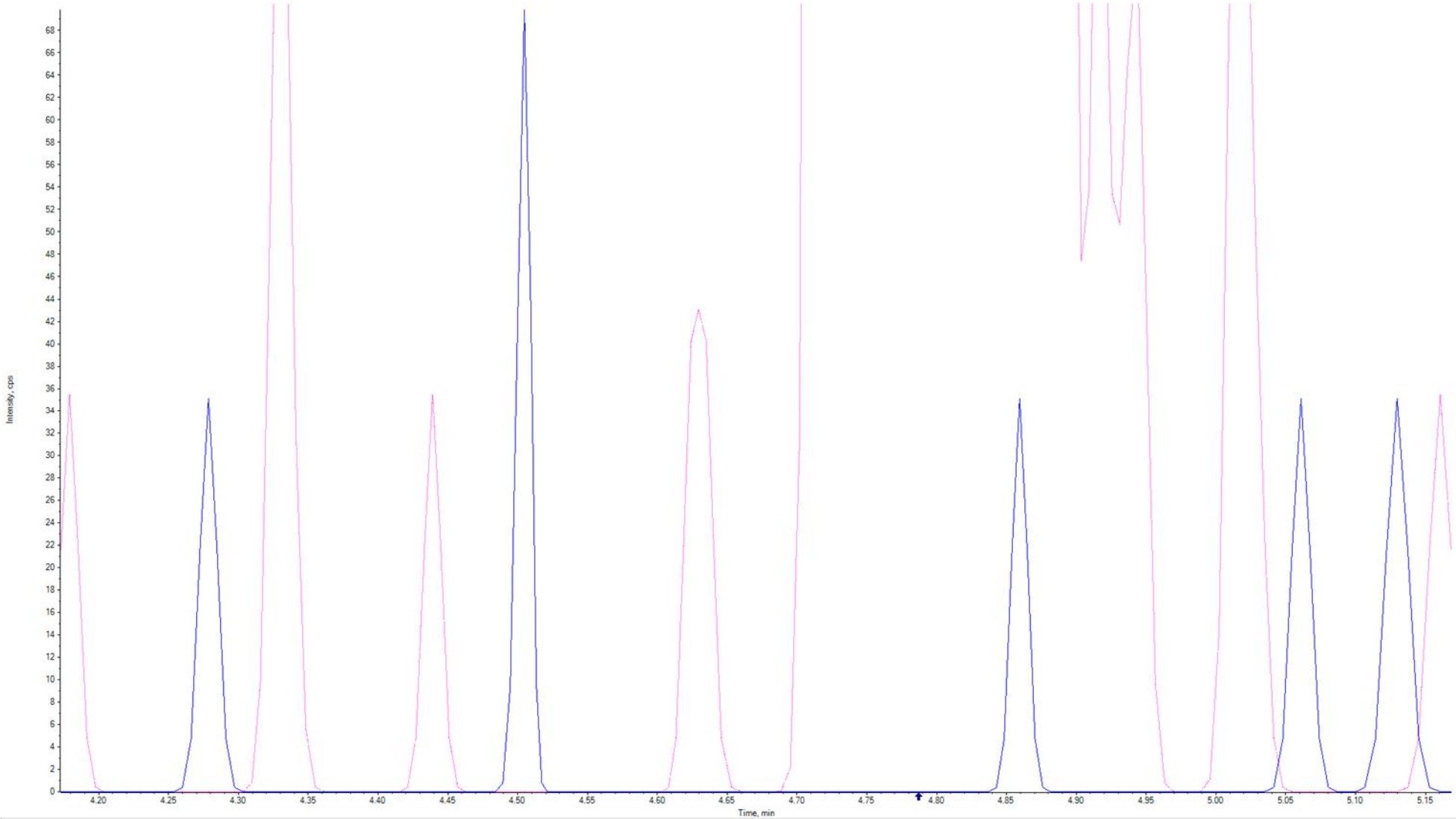
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_39.wiff2_6
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFDoA
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_39.wiff2_6
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFDoA_2
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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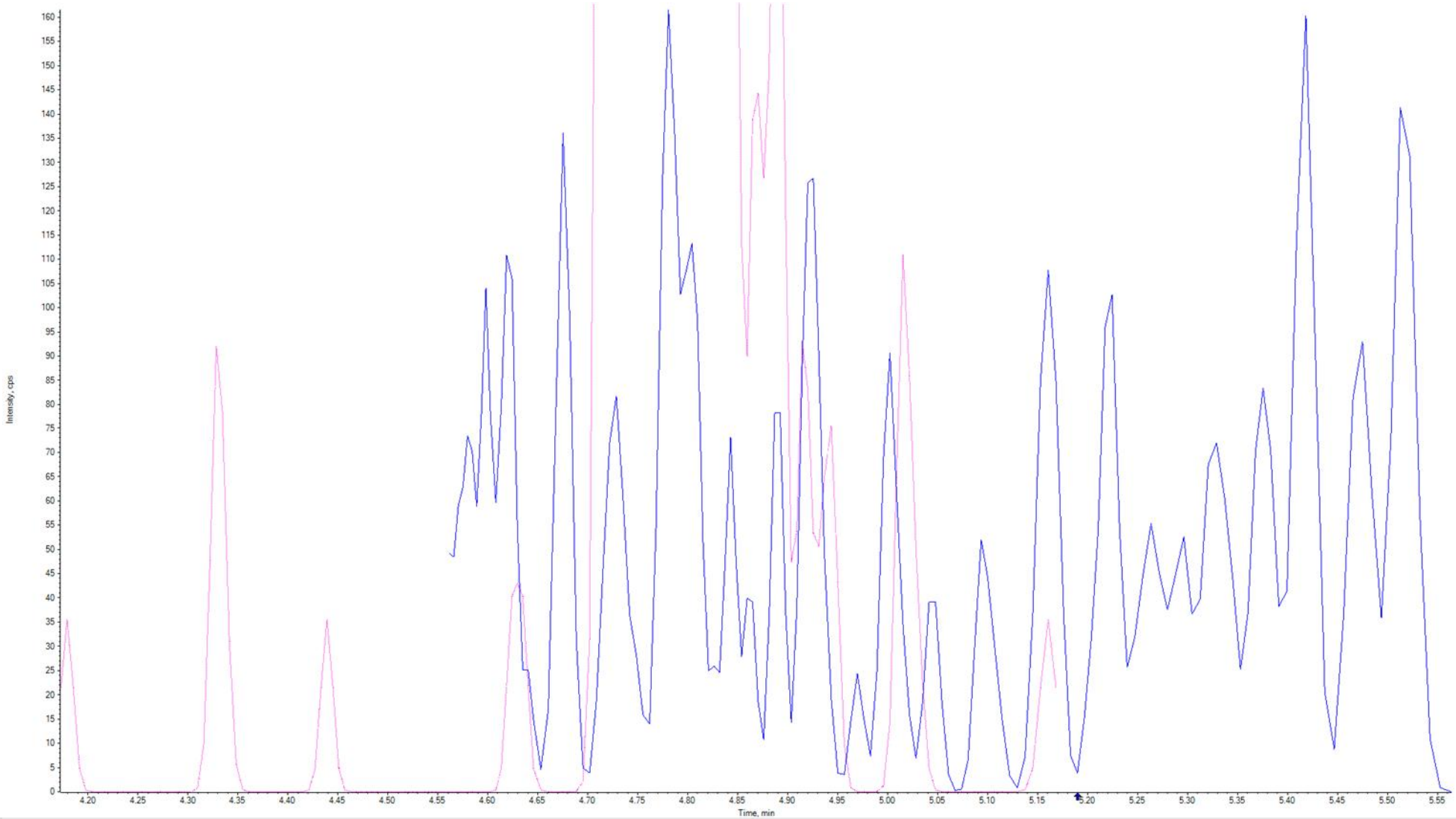
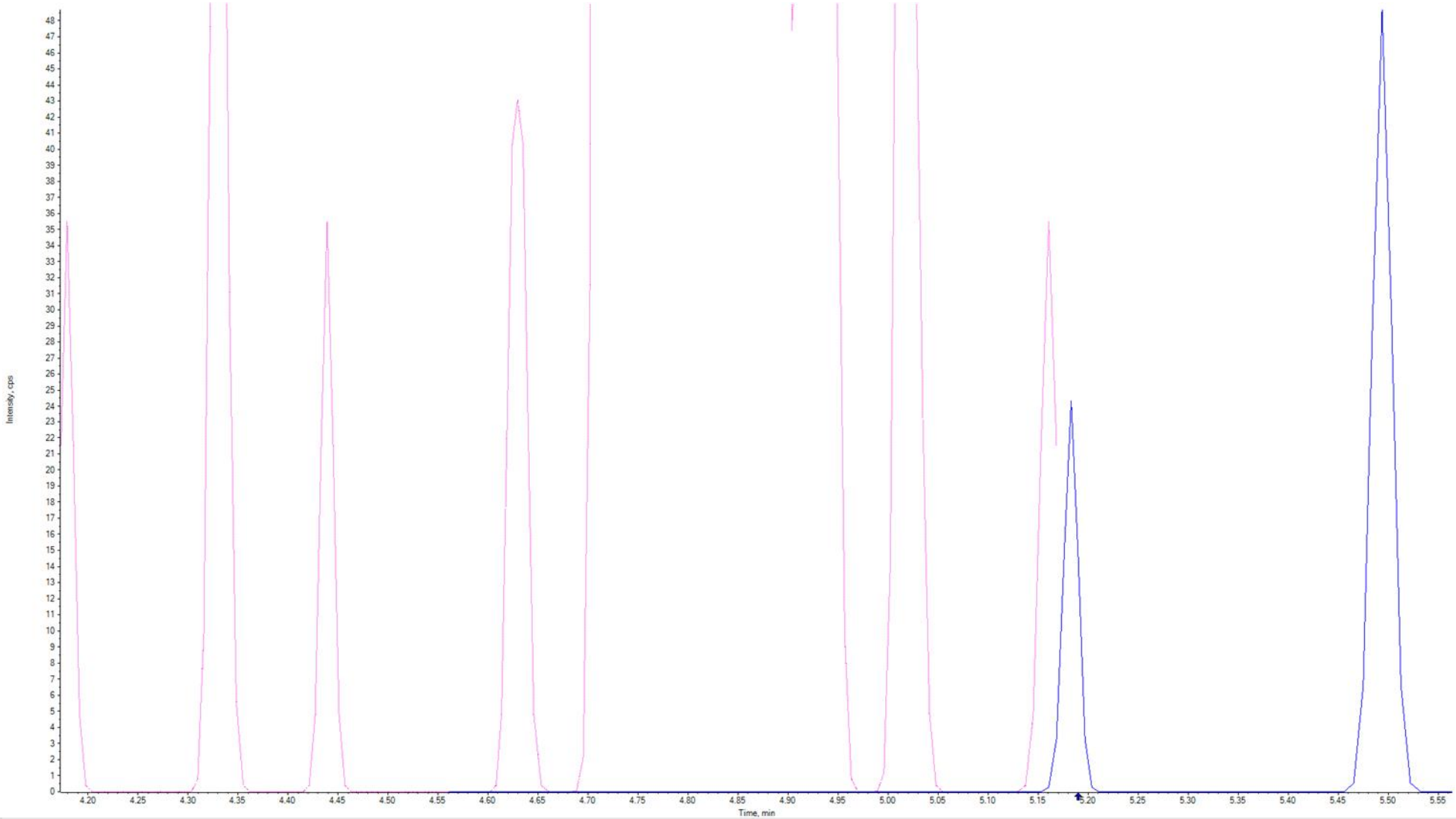
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFTrDA
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



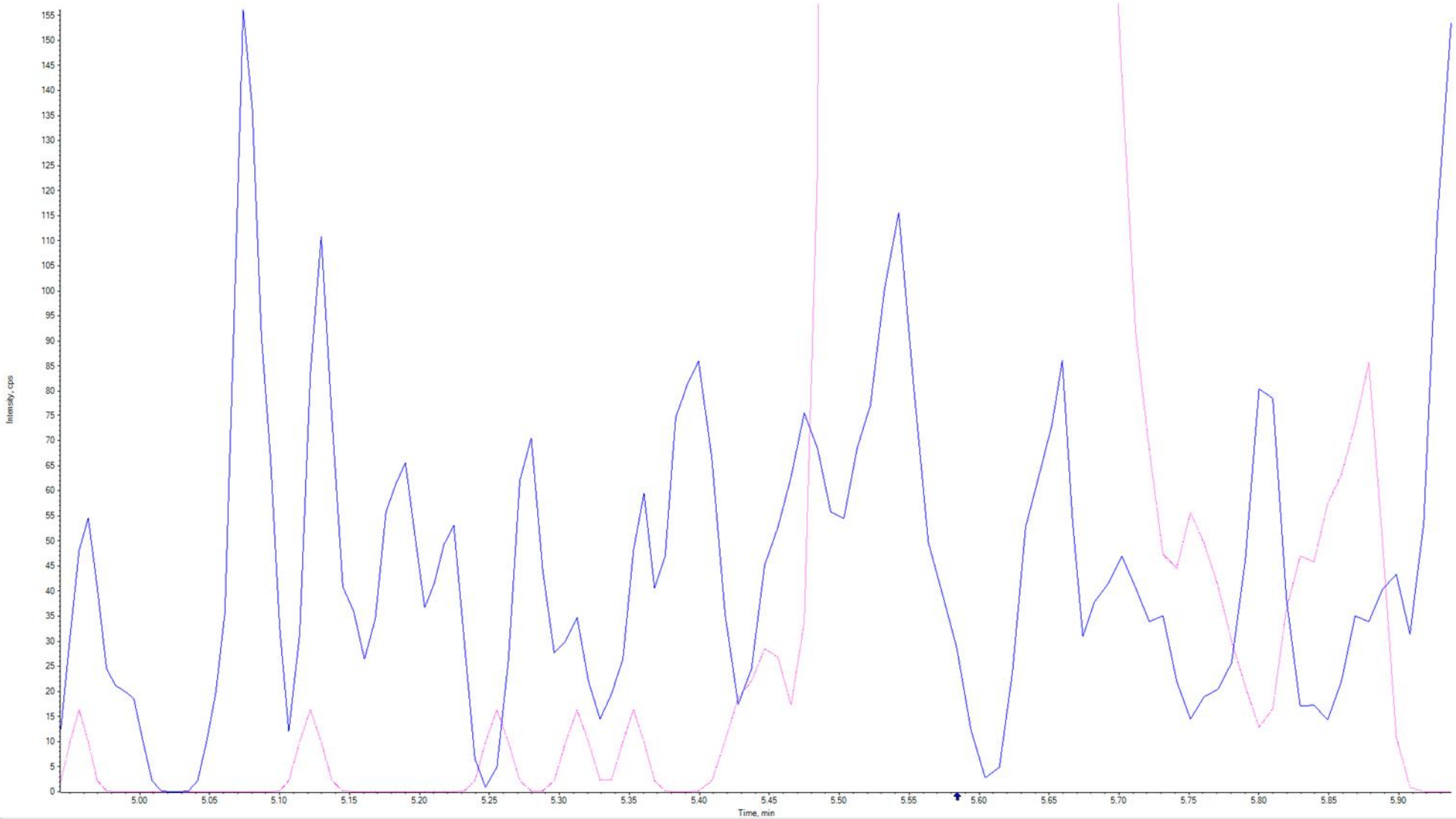
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_39.wiff2_6
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFTrDA_2
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_39.wiff2_6
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFTeDA
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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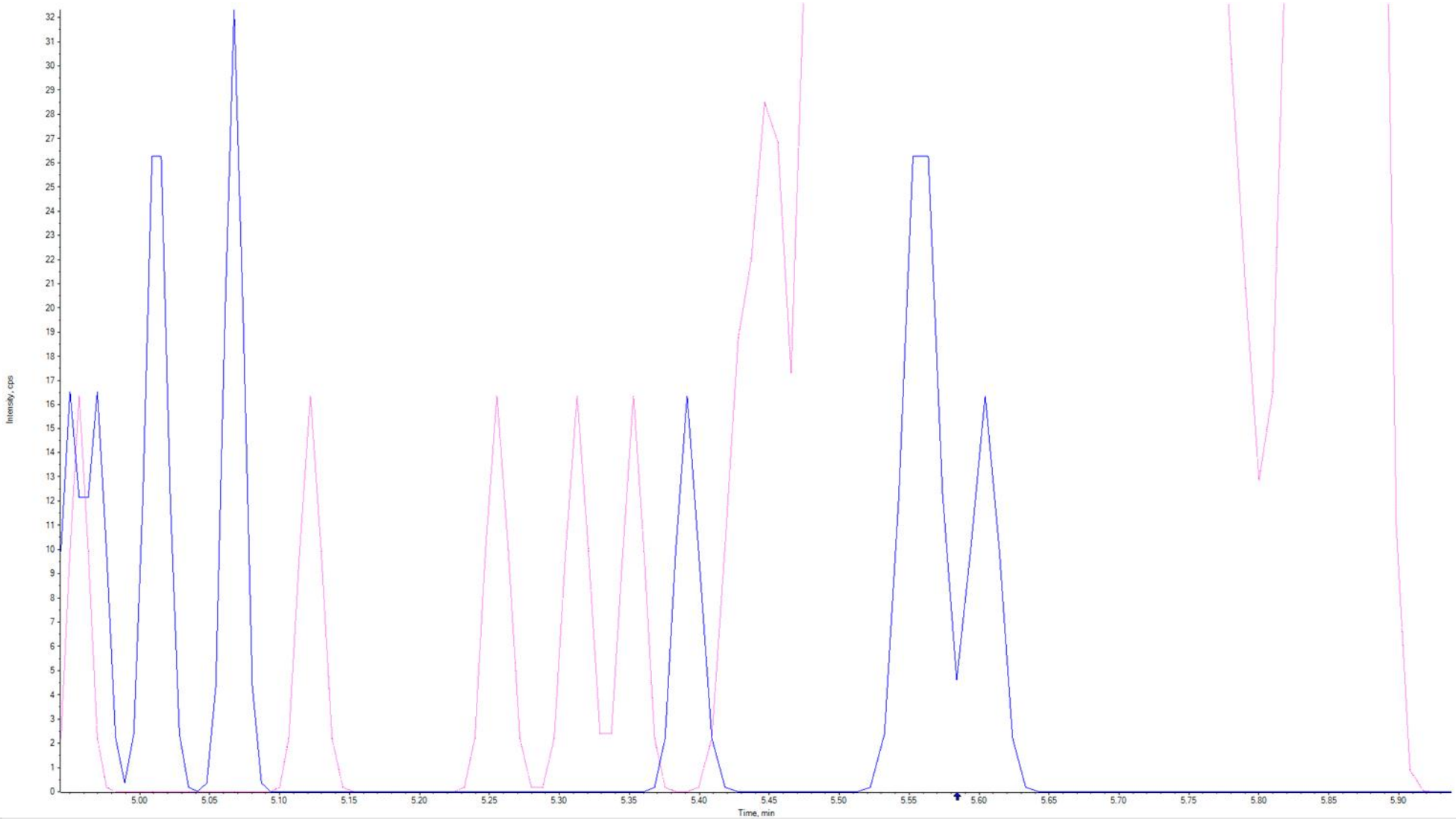
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFTeDA_2
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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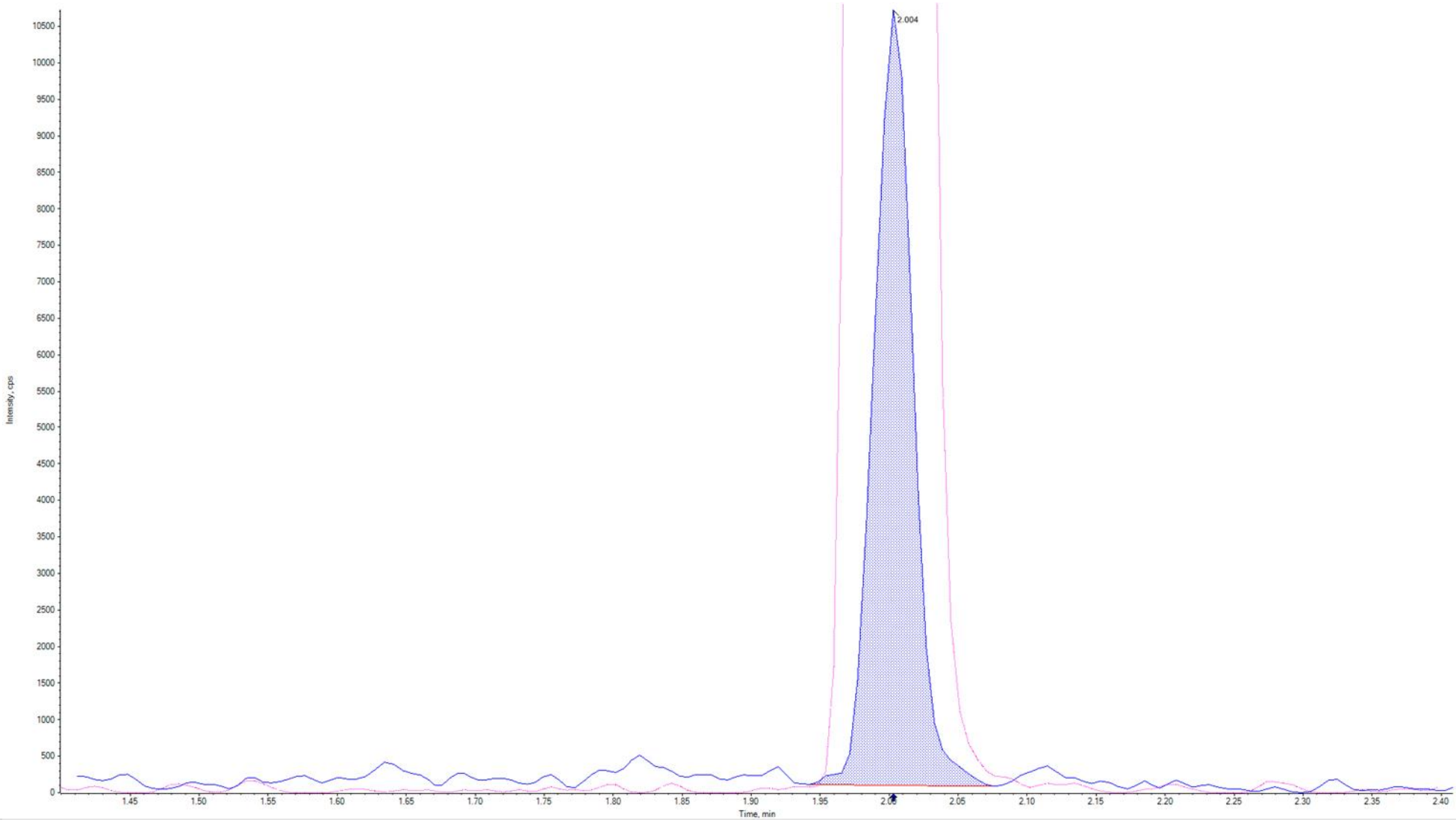
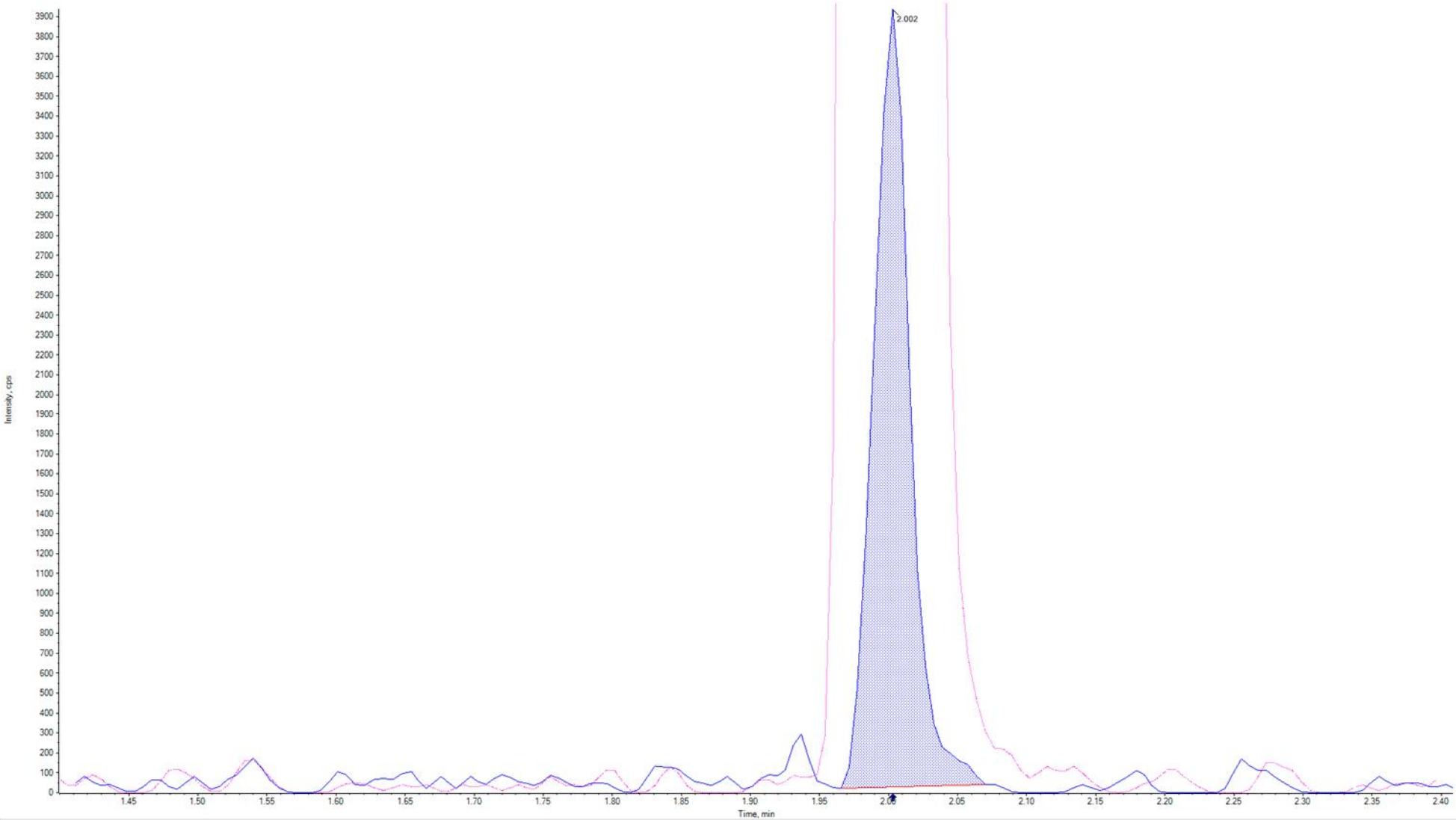
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFBS
Sample: L2470744-09 S/N:266.3 Points Across peak:23



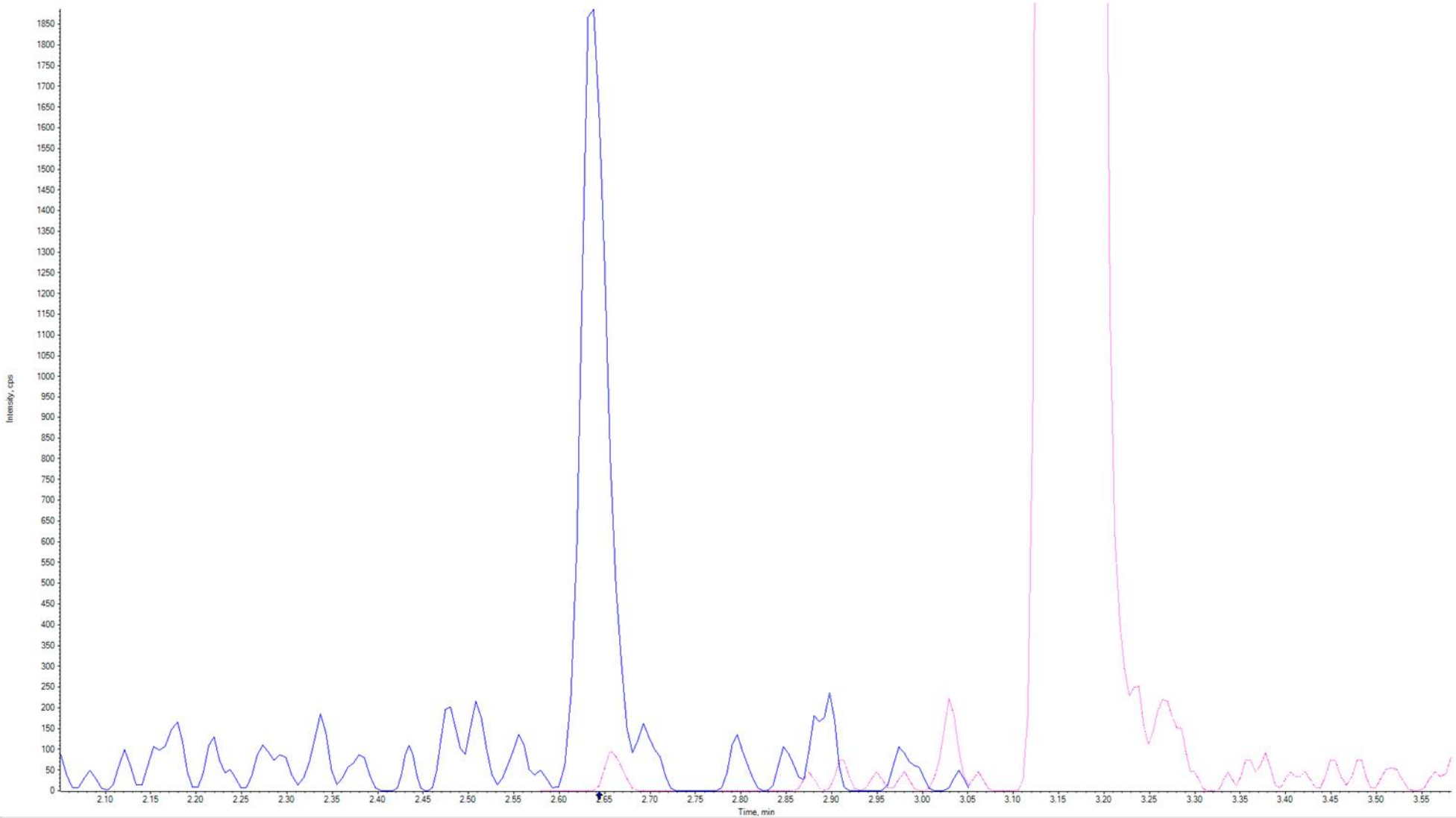
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_39.wiff2_6
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFBS_2
Sample: L2470744-09 S/N:98.0 Points Across peak:18



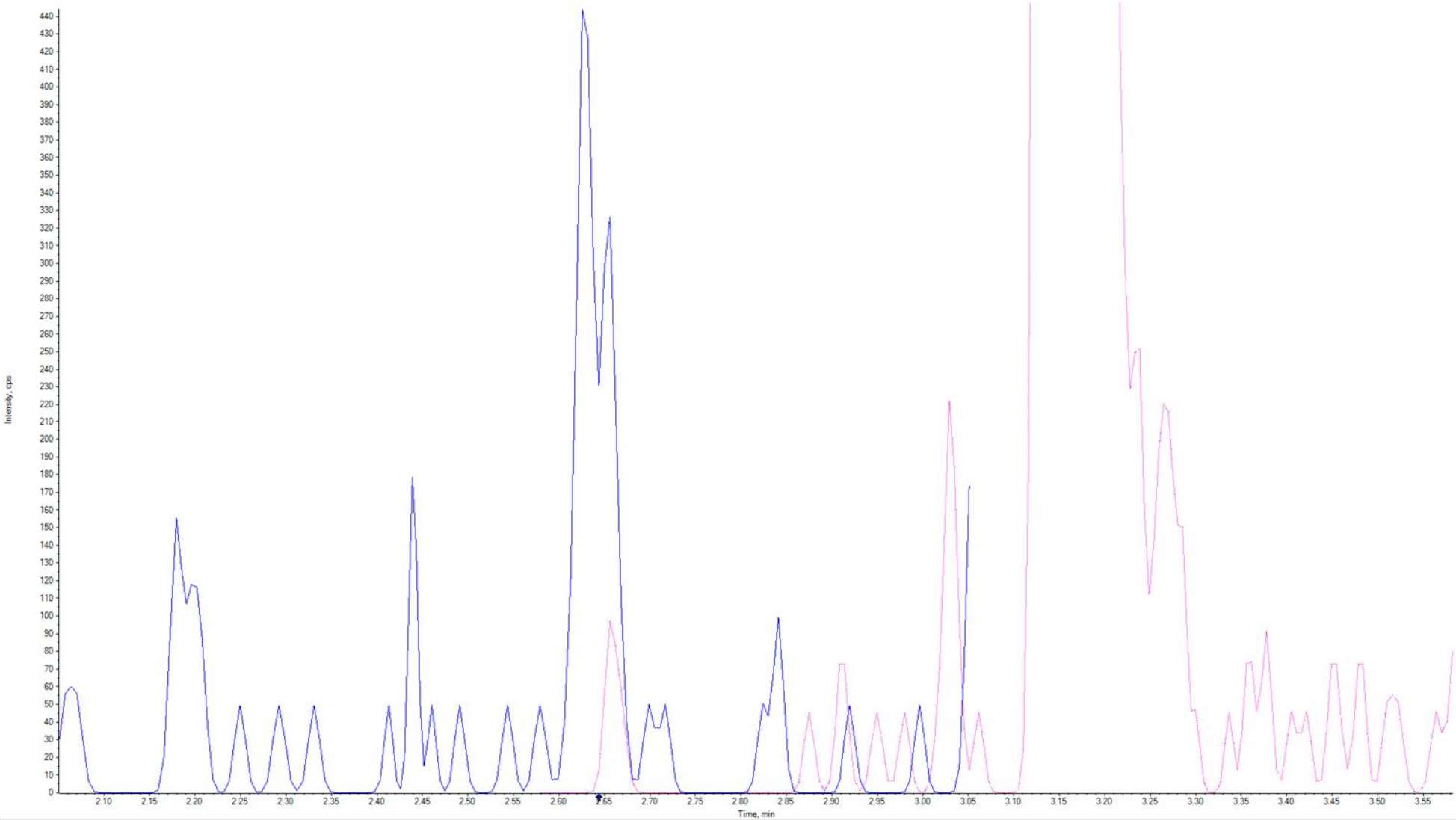
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_39.wiff2_6
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFPeS
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



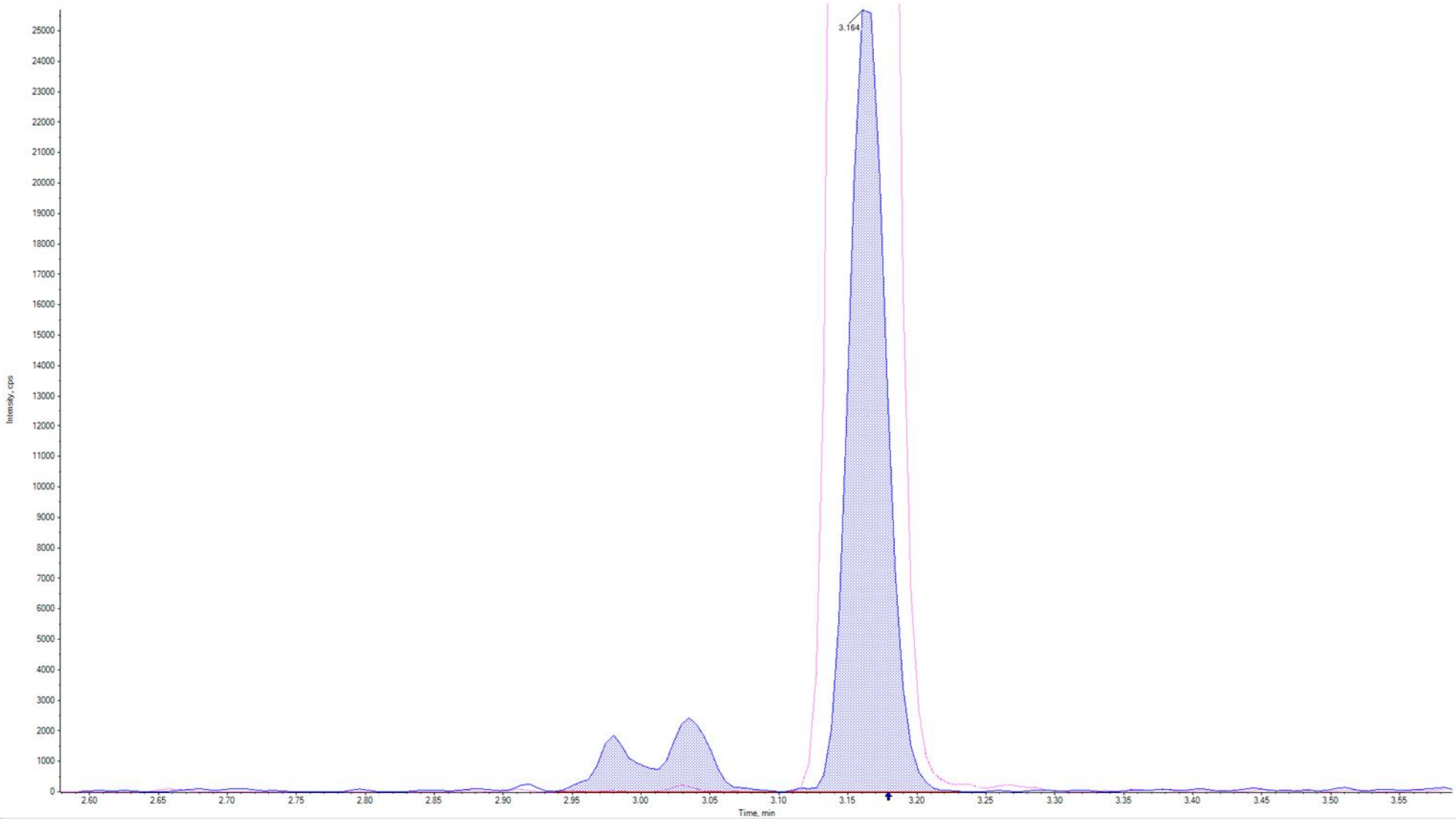
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_39.wiff2_6
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFPeS_2
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



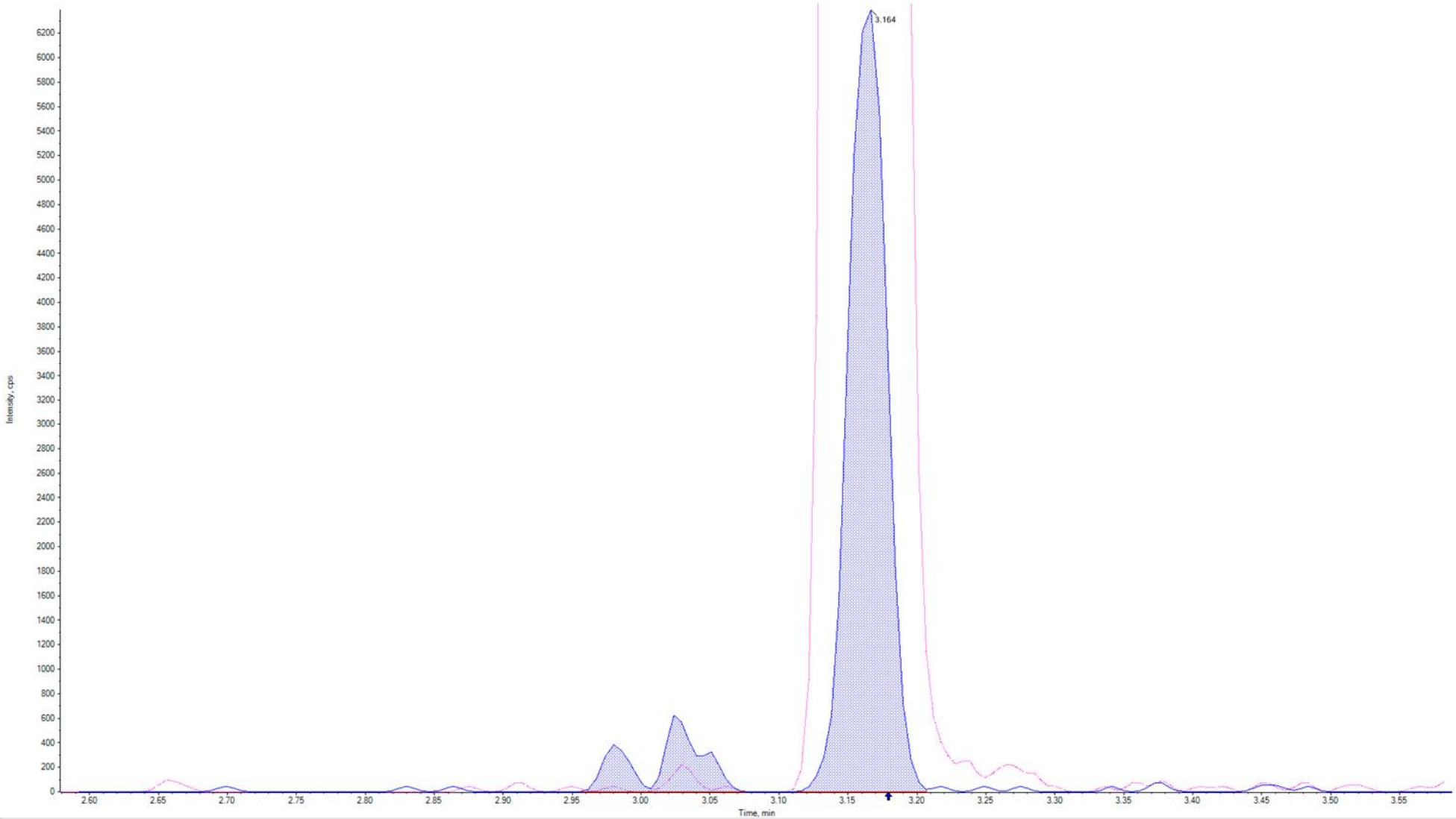
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_39.wiff2_6
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFHxS
Sample: L2470744-09 S/N:500.9 Points Across peak:56



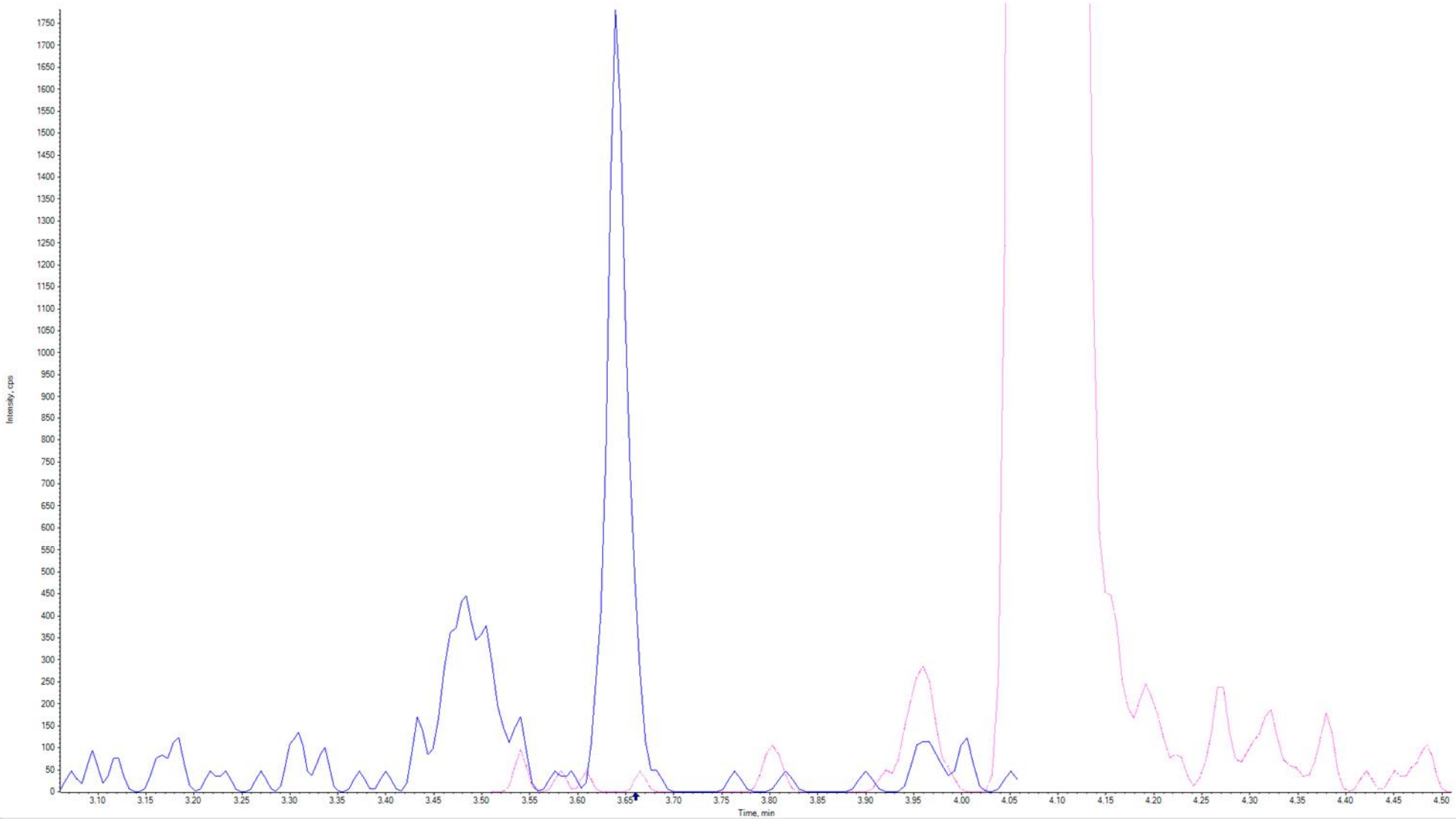
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_39.wiff2_6
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFHxS_2
Sample: L2470744-09 S/N:144.2 Points Across peak:47



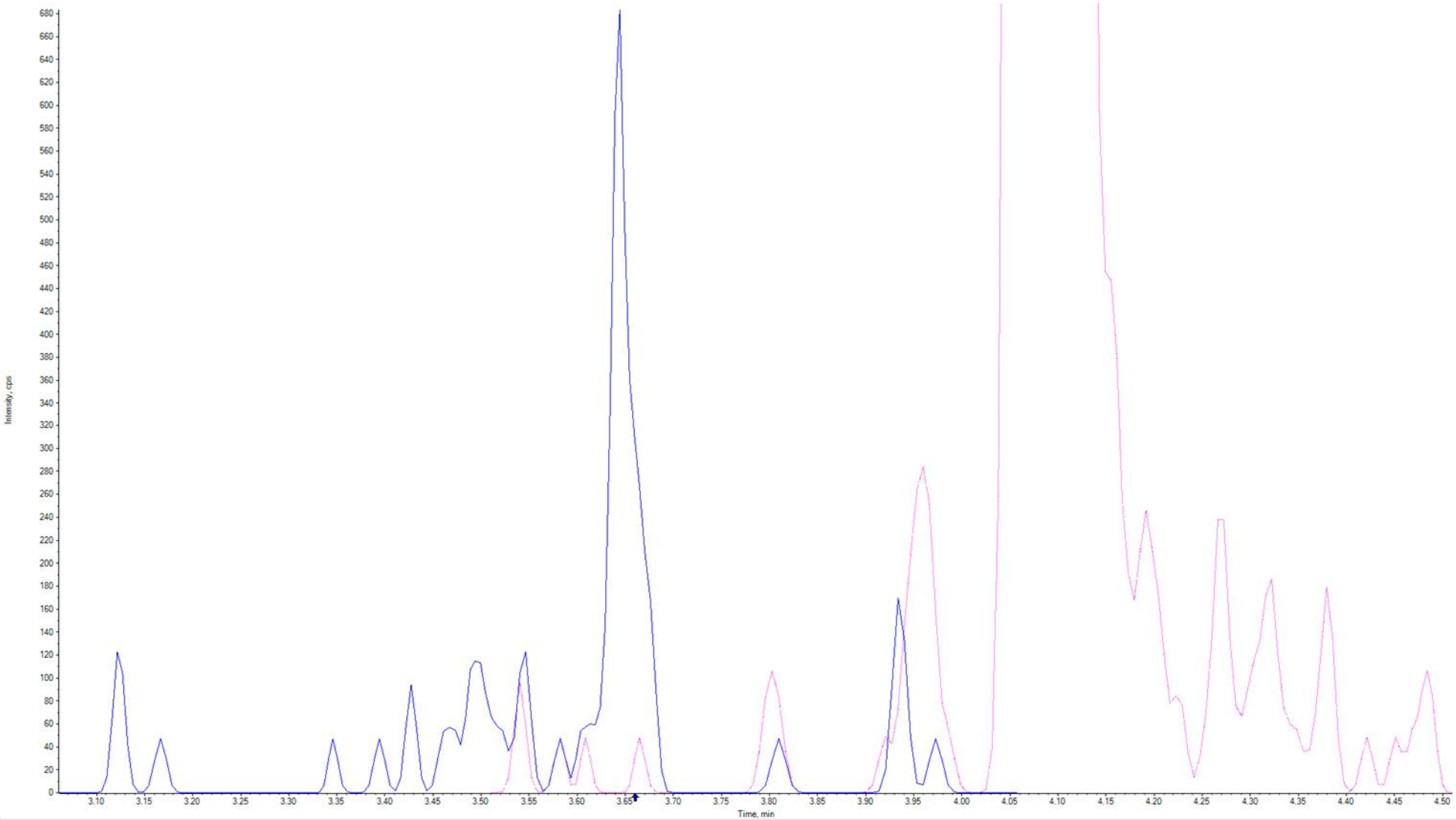
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_39.wiff2_6
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFHpS
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



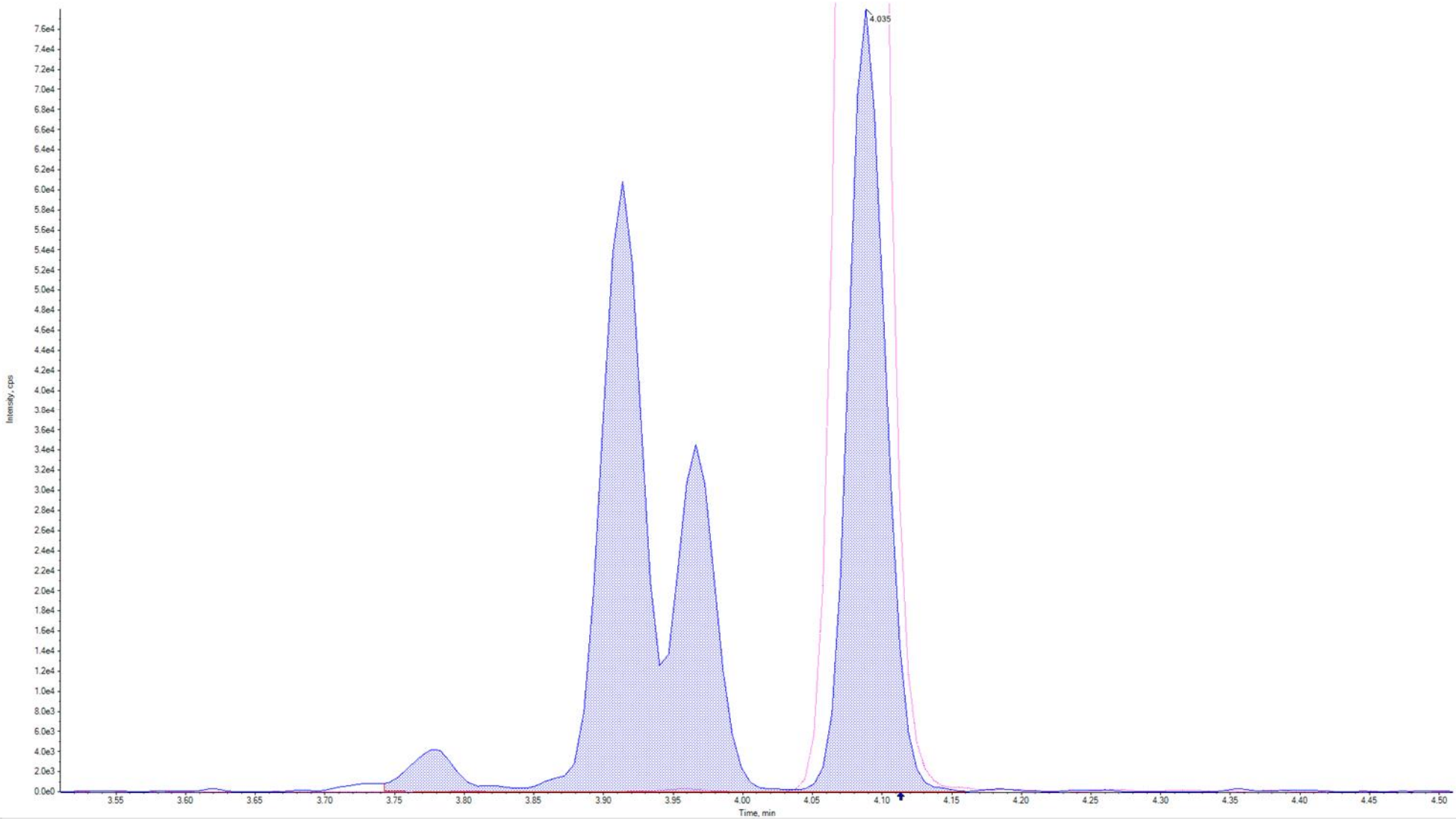
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_39.wiff2_6
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFHpS_2
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



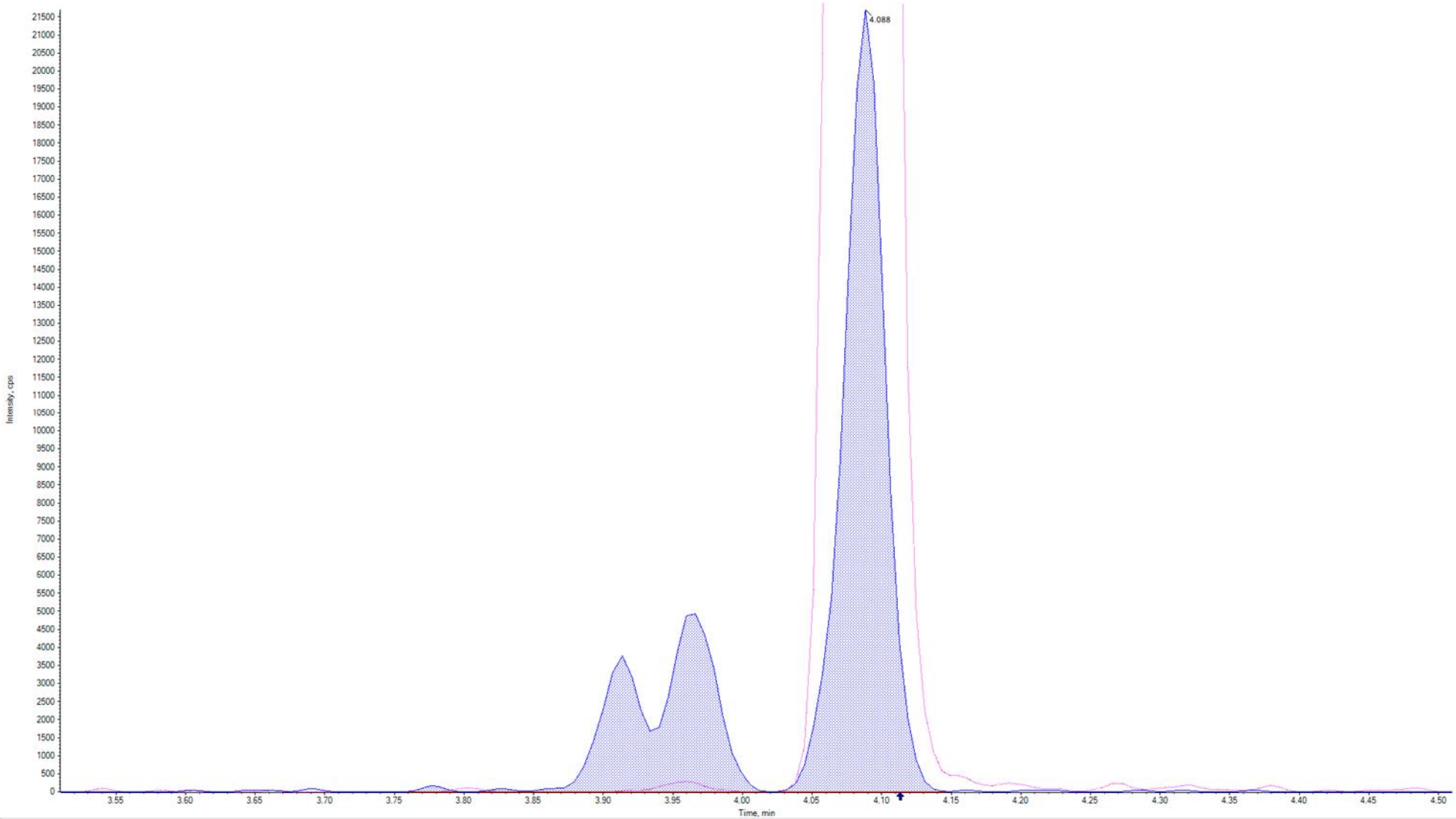
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_39.wiff2_6
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFOS
Sample: L2470744-09 S/N:195.6 Points Across peak:66



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_39.wiff2_6
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFOS_2
Sample: L2470744-09 S/N:435.0 Points Across peak:62



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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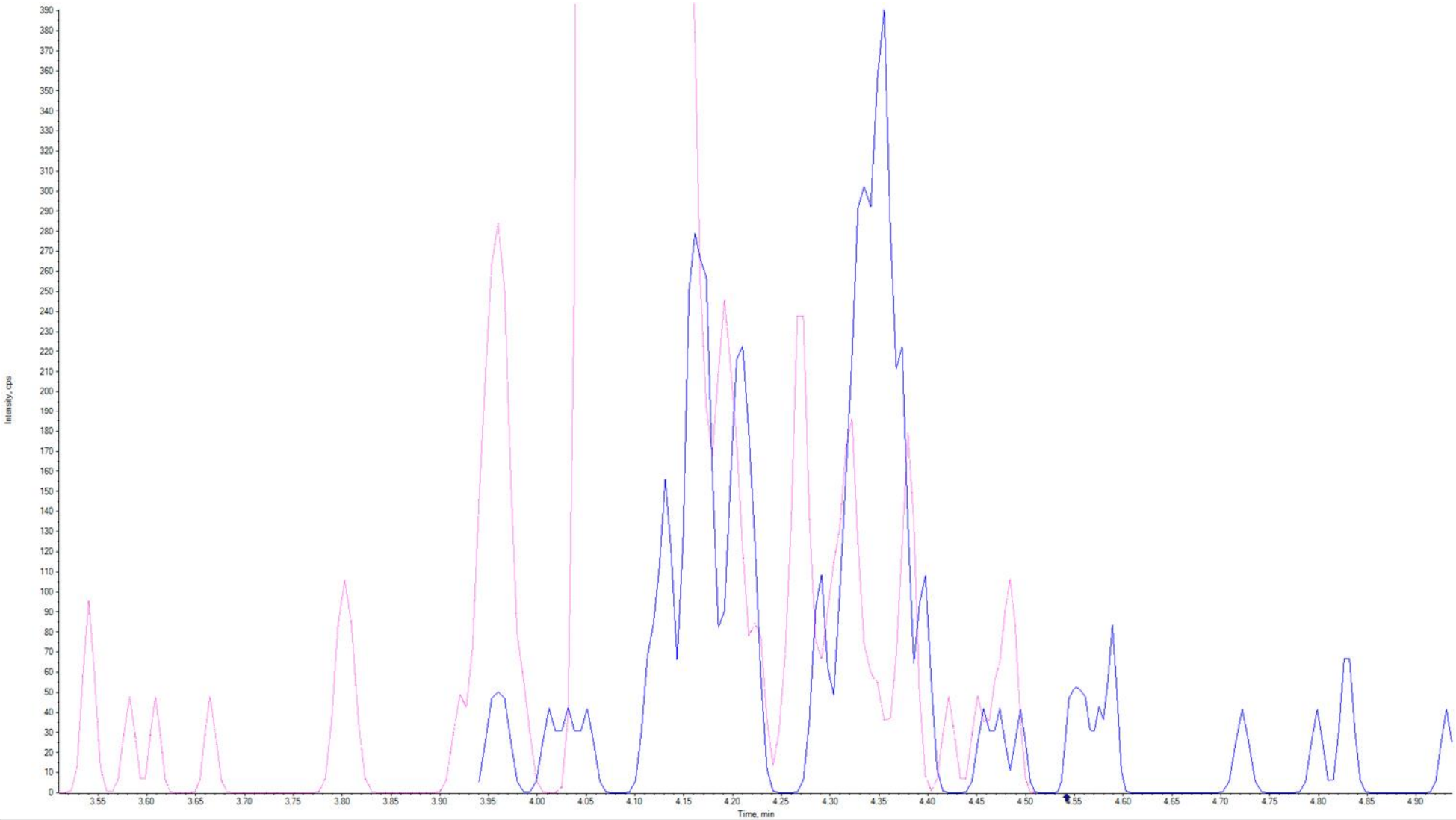
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFNS
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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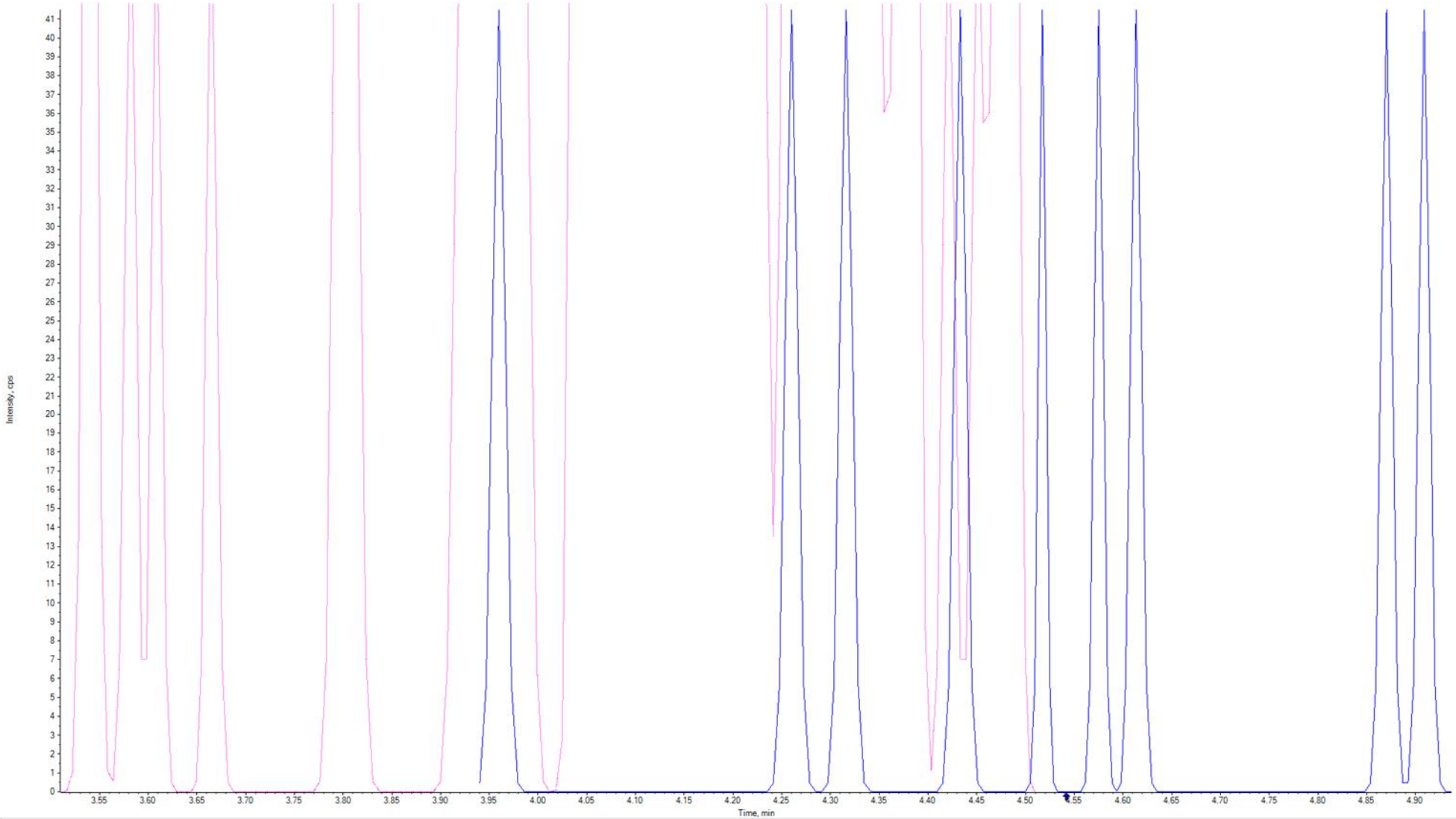
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFNS_2
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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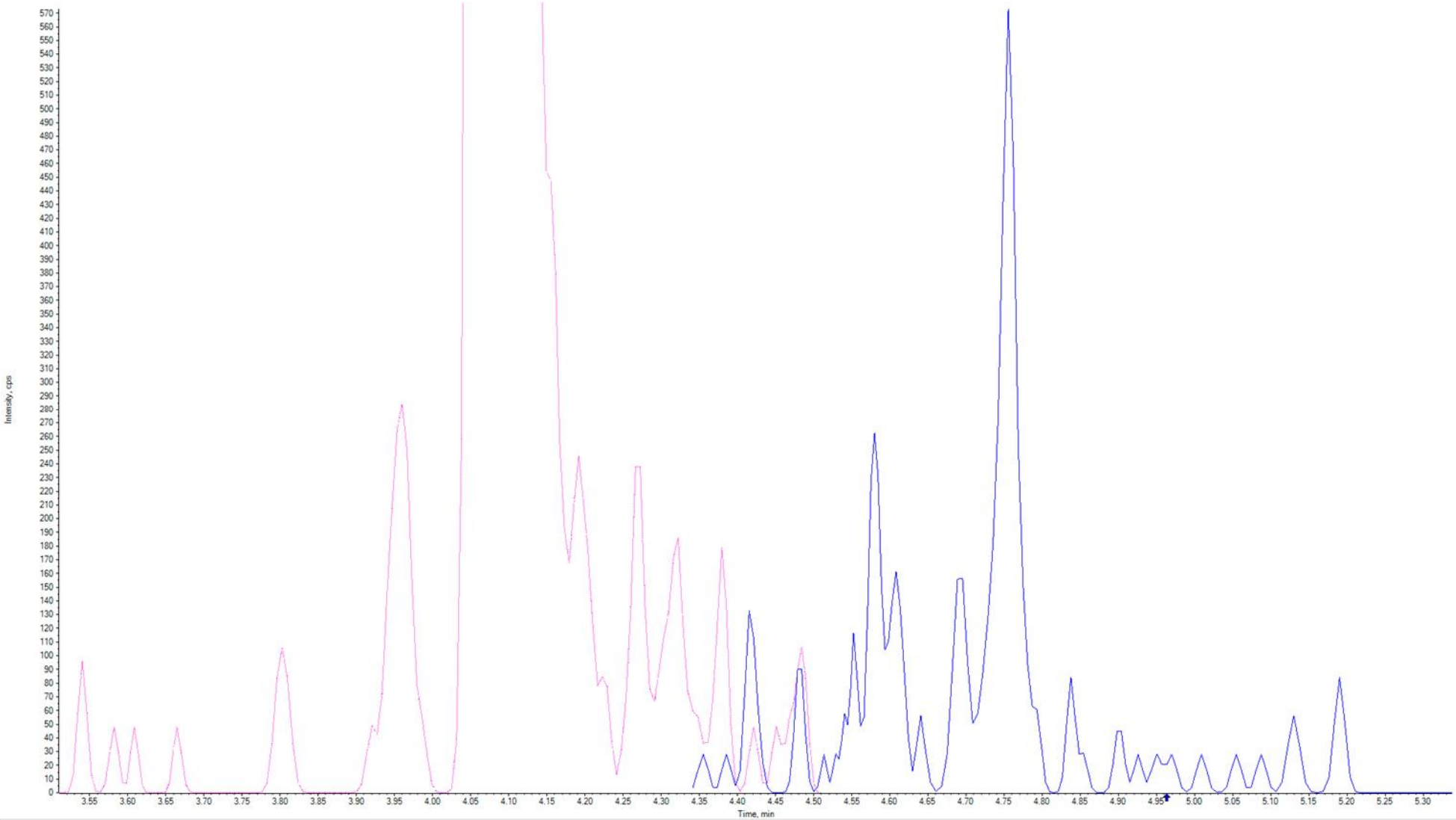
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFDS
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 12/20/2024 12:29:45 PM
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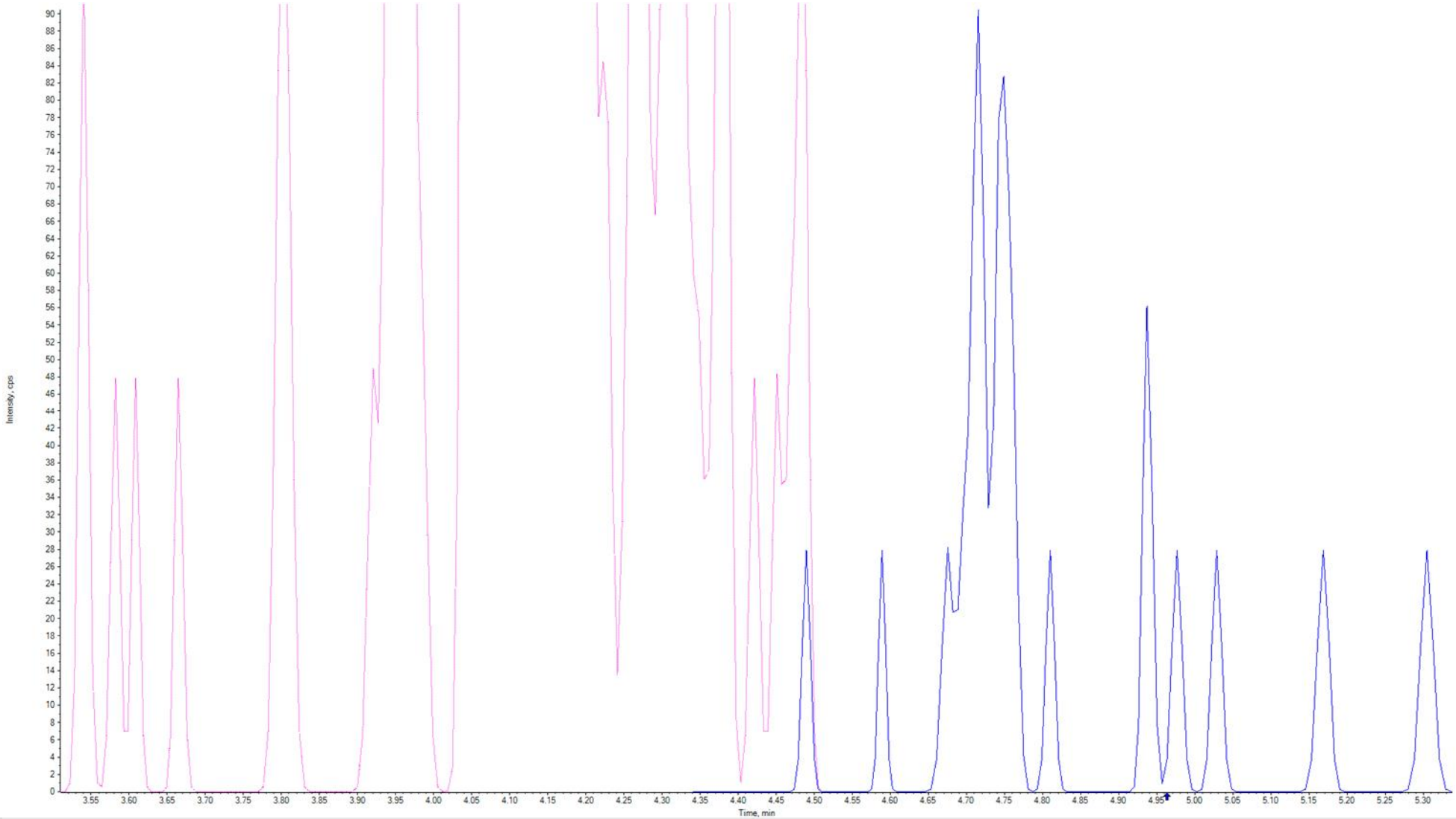
PFDS_2
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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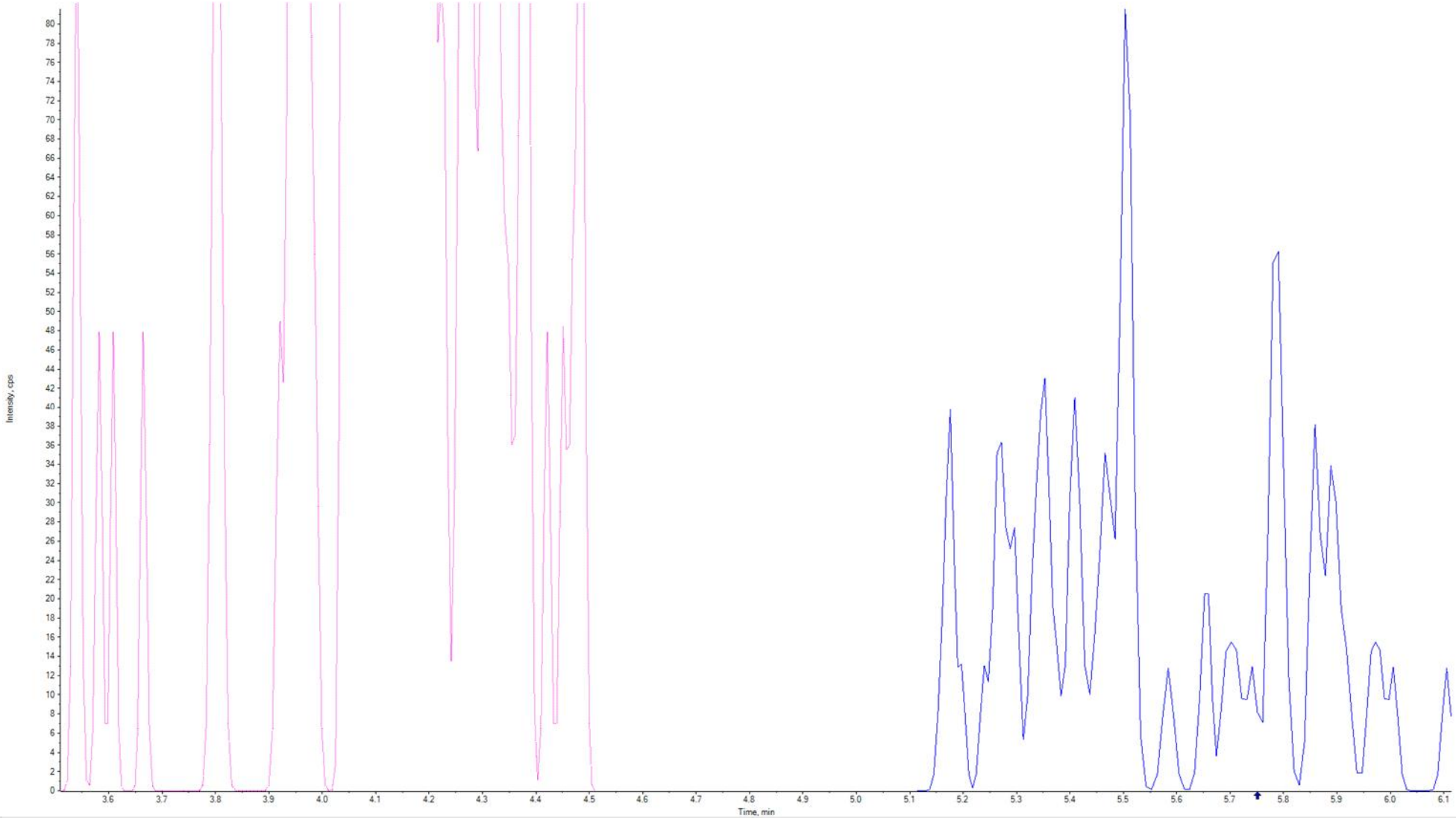
PFDoS
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 12/20/2024 12:29:45 PM
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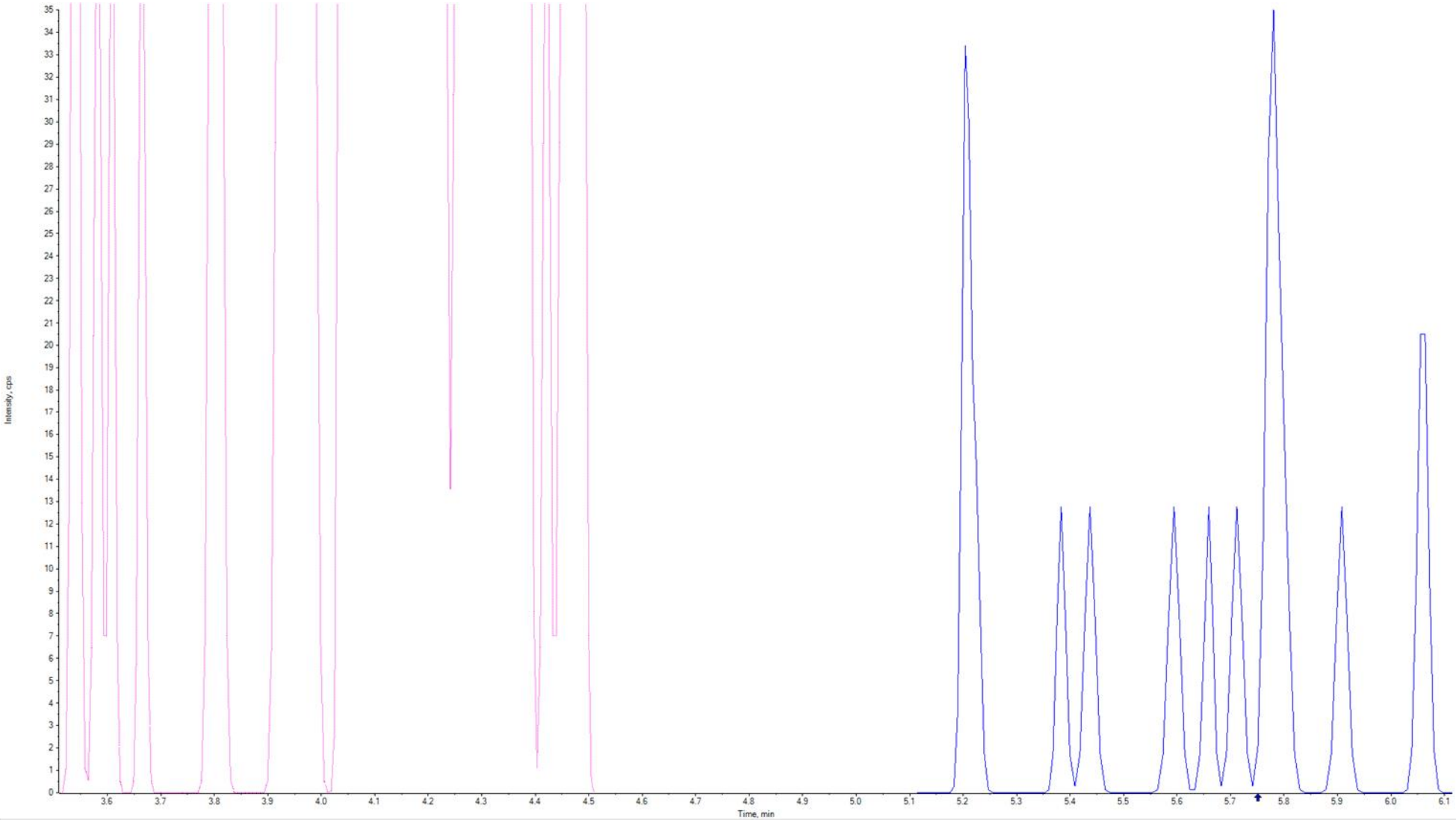
PFDoS_2
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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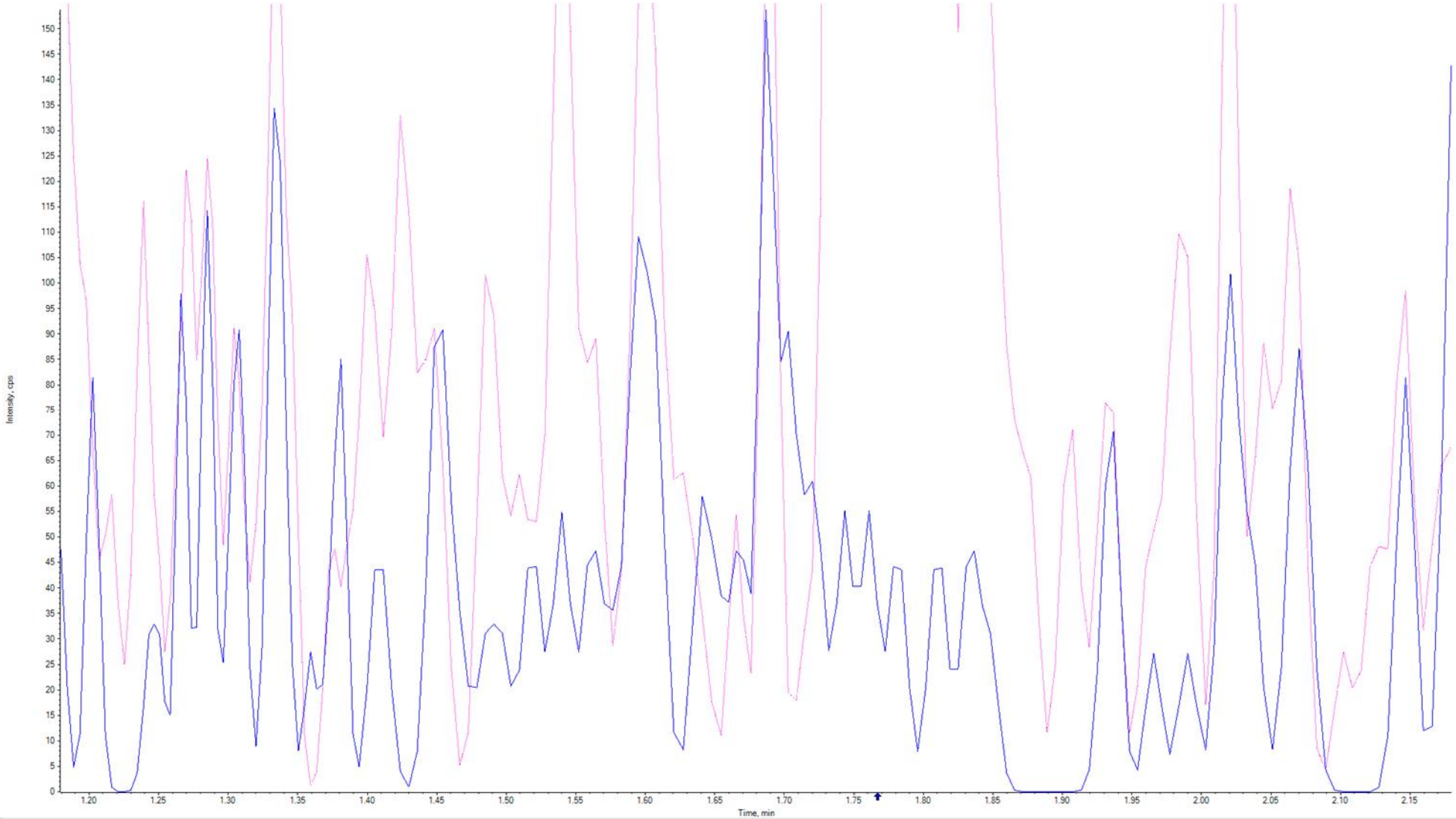
4:2FTS
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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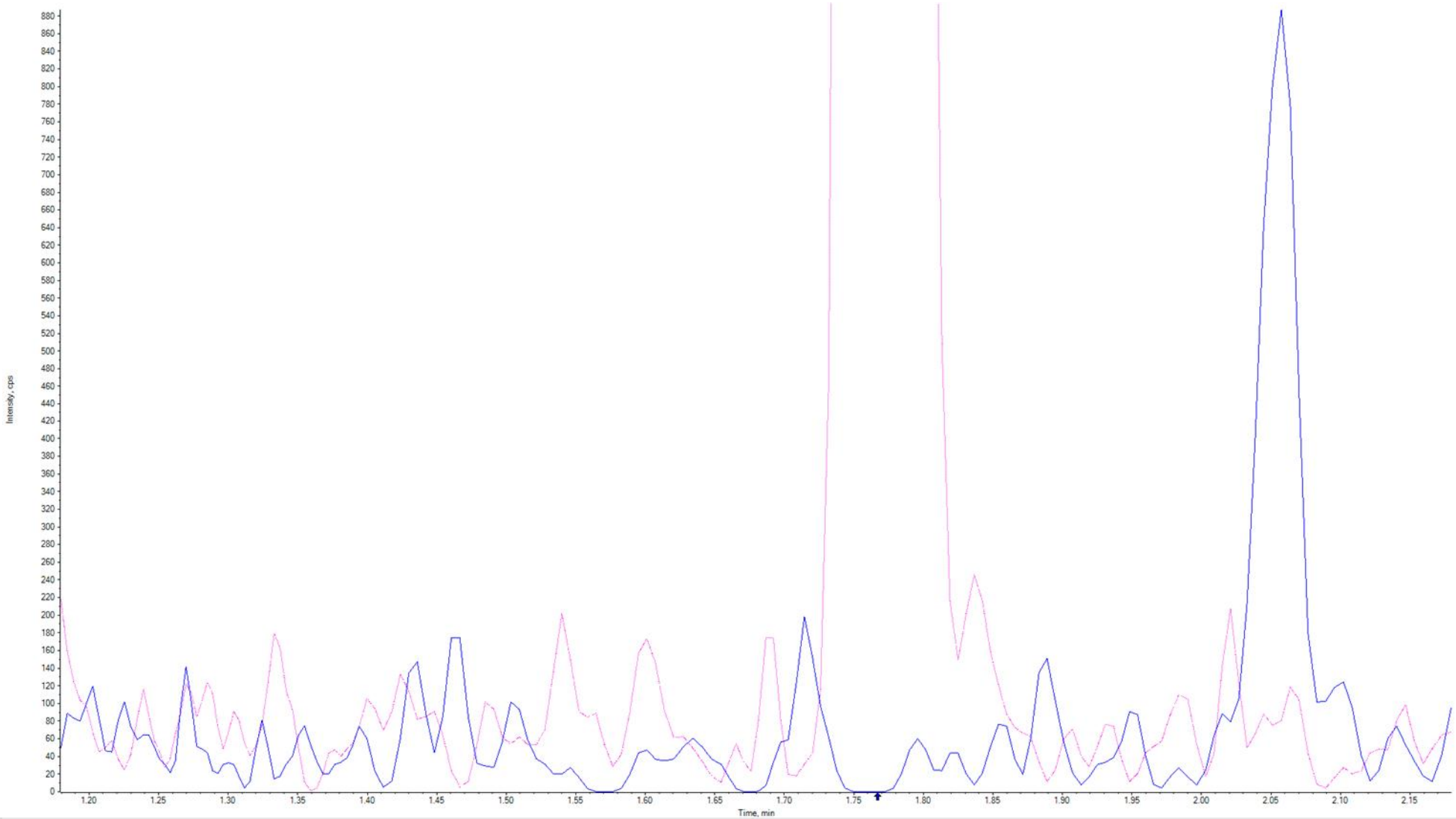
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

4:2FTS_2
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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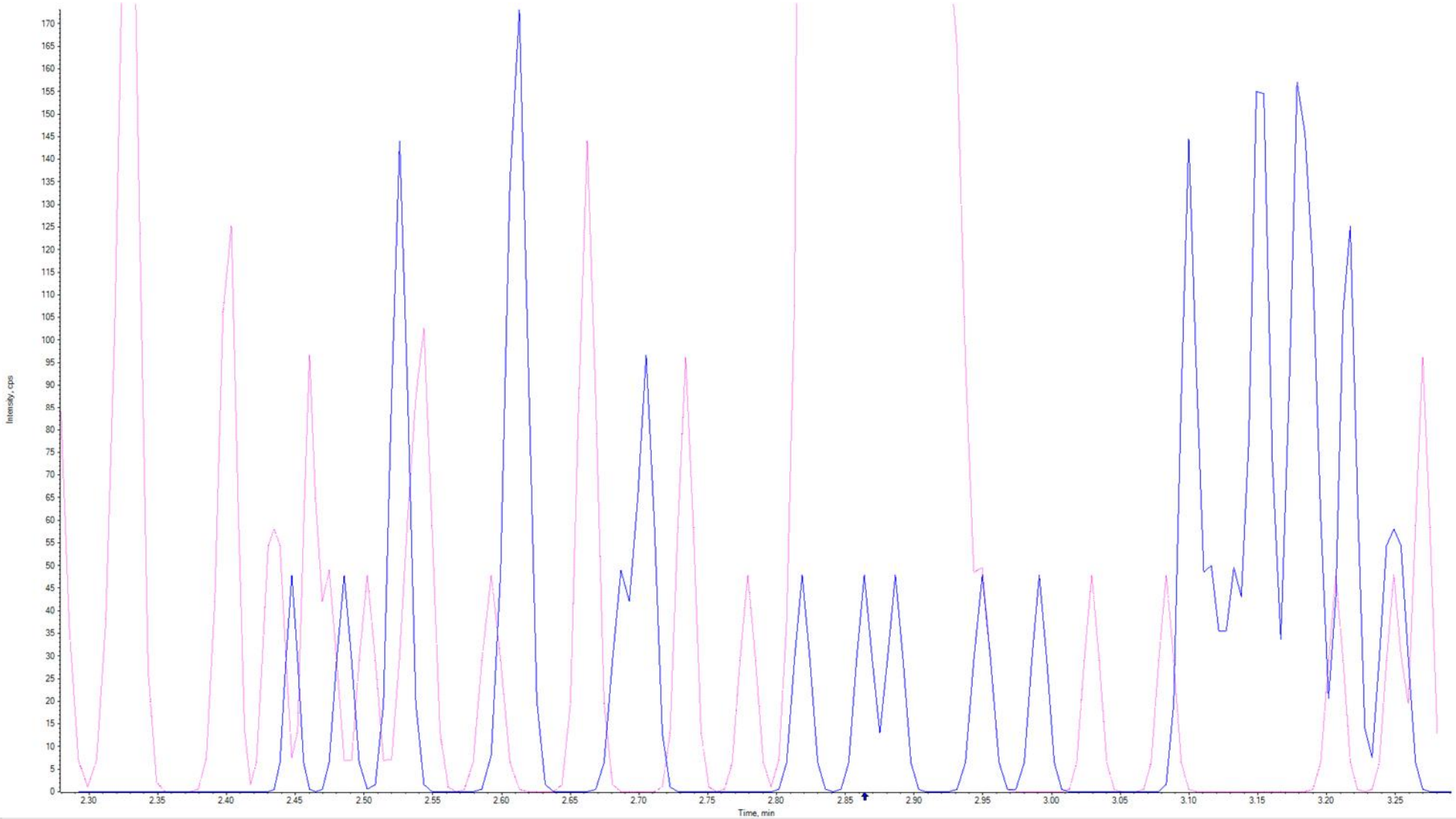
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

6:2FTS
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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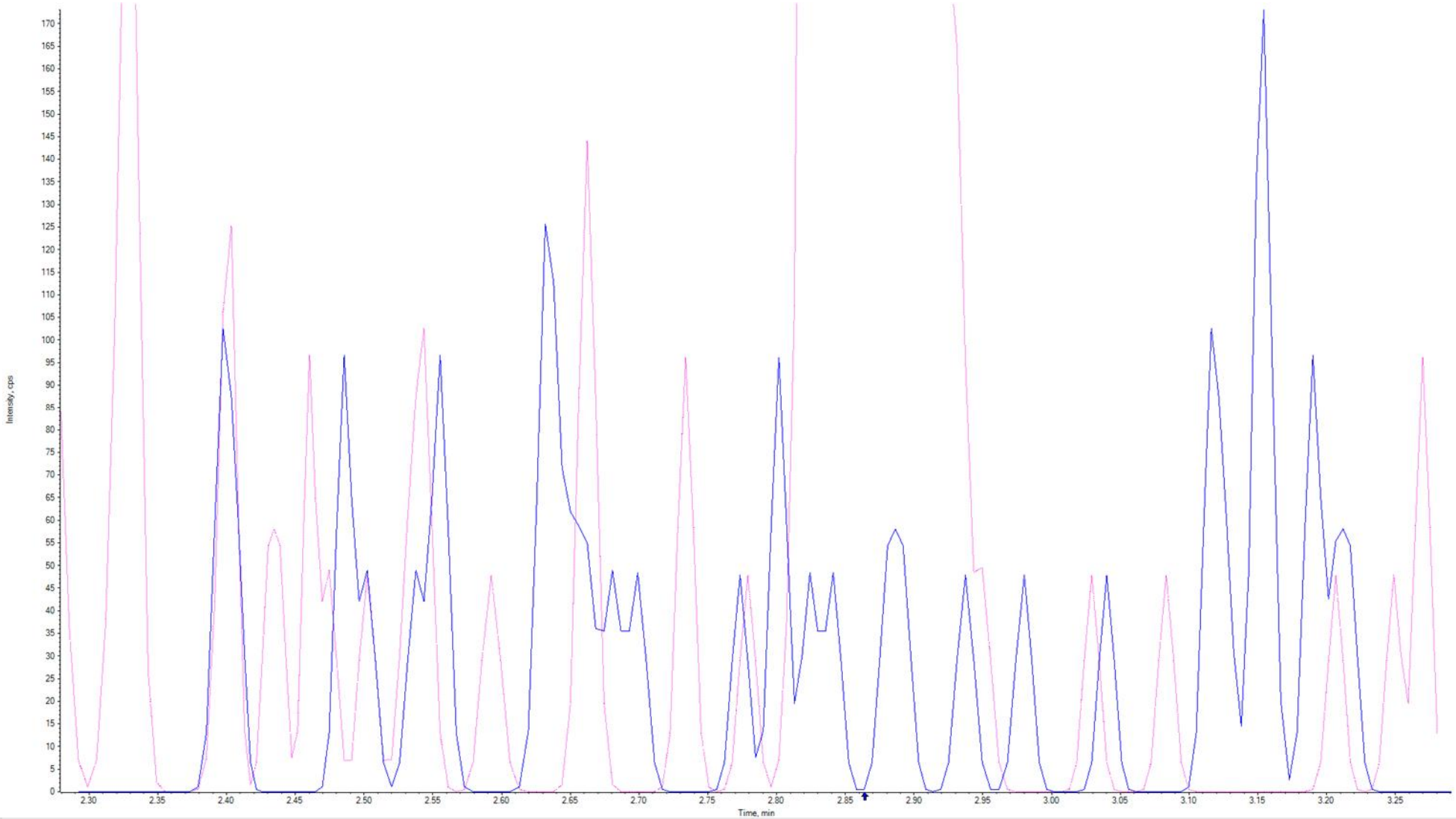
6:2FTS_2
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



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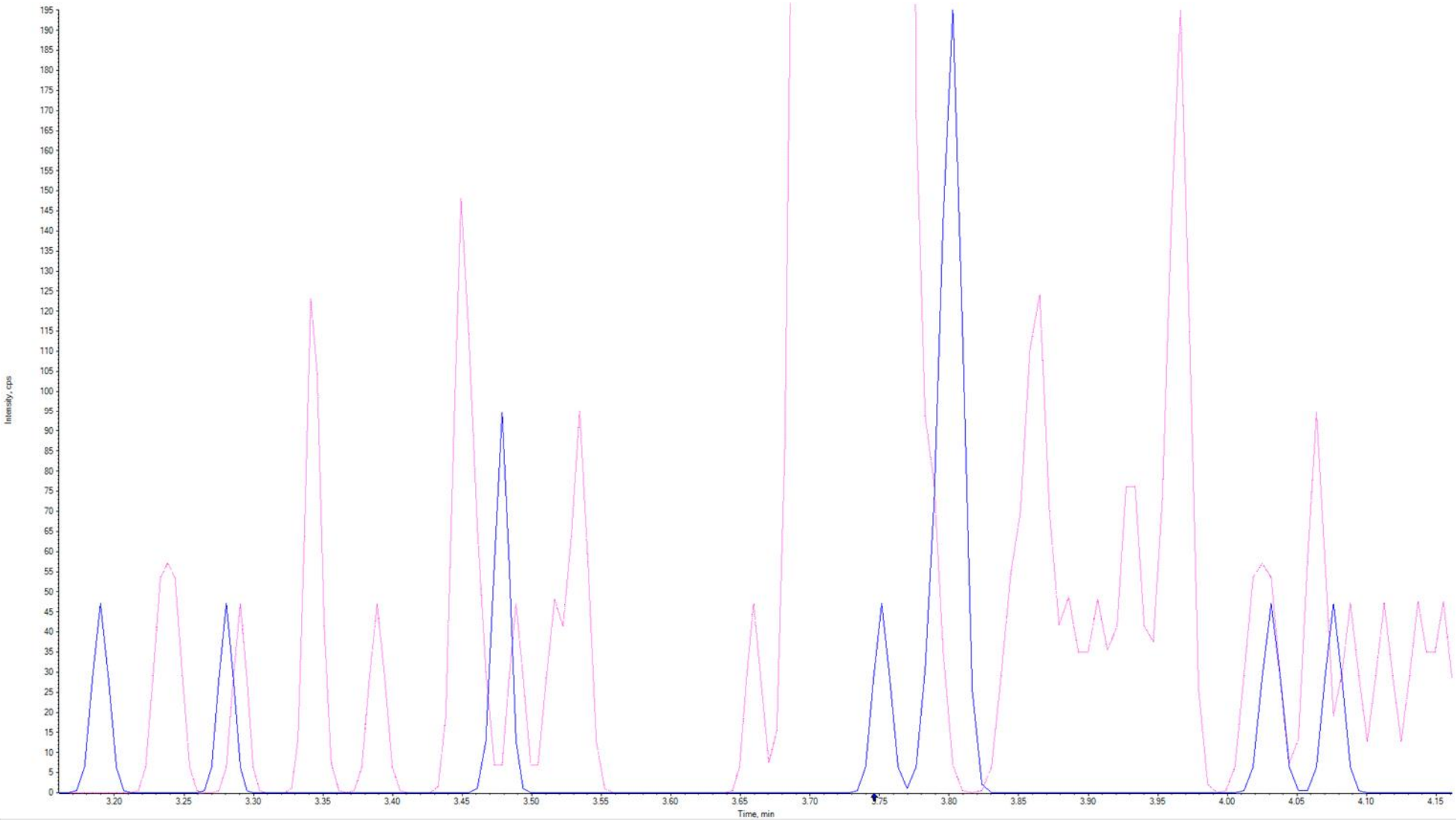
Generated: 12/20/2024 10:43:43 AM

8:2FTS
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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8:2FTS_2
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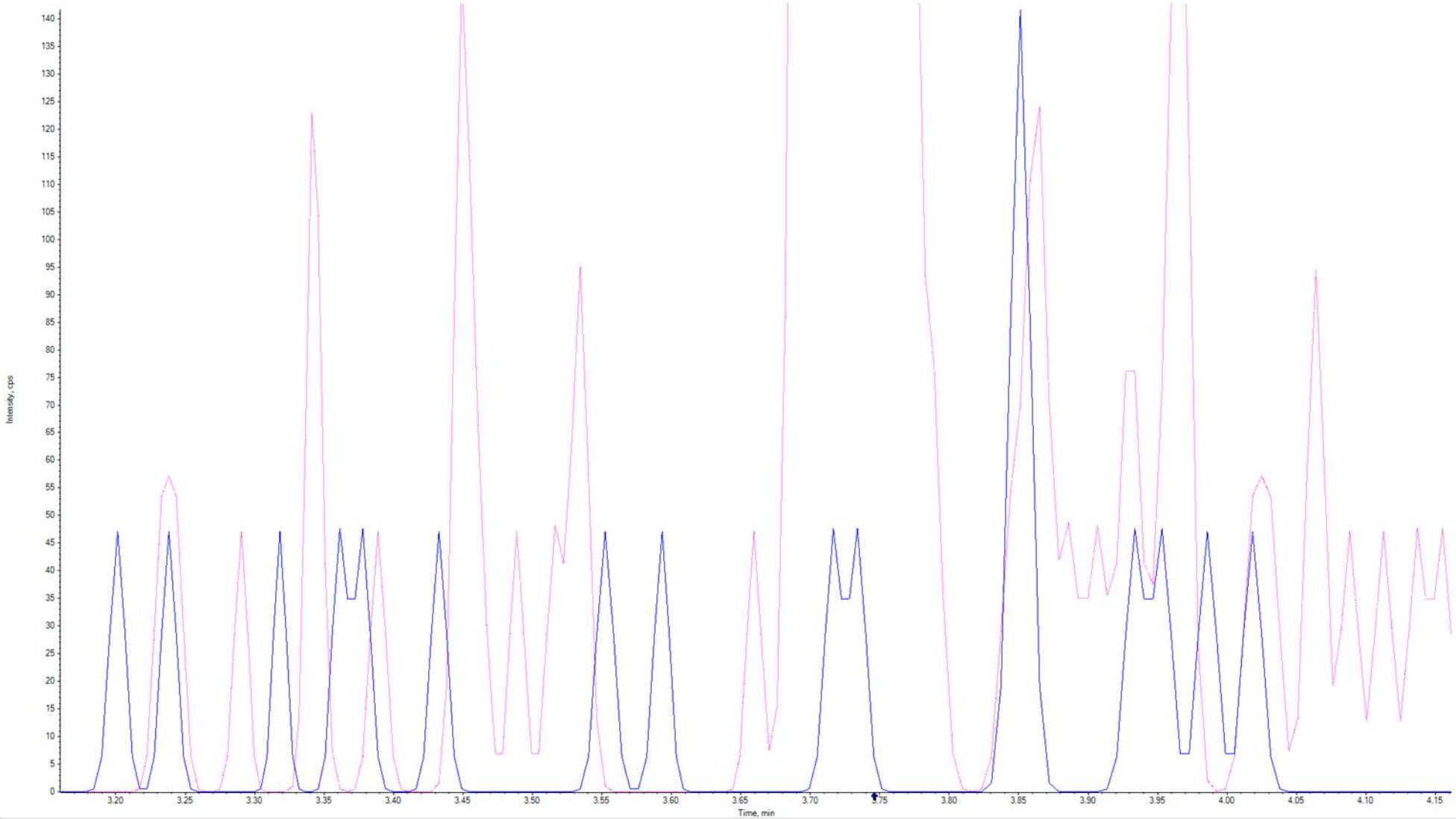

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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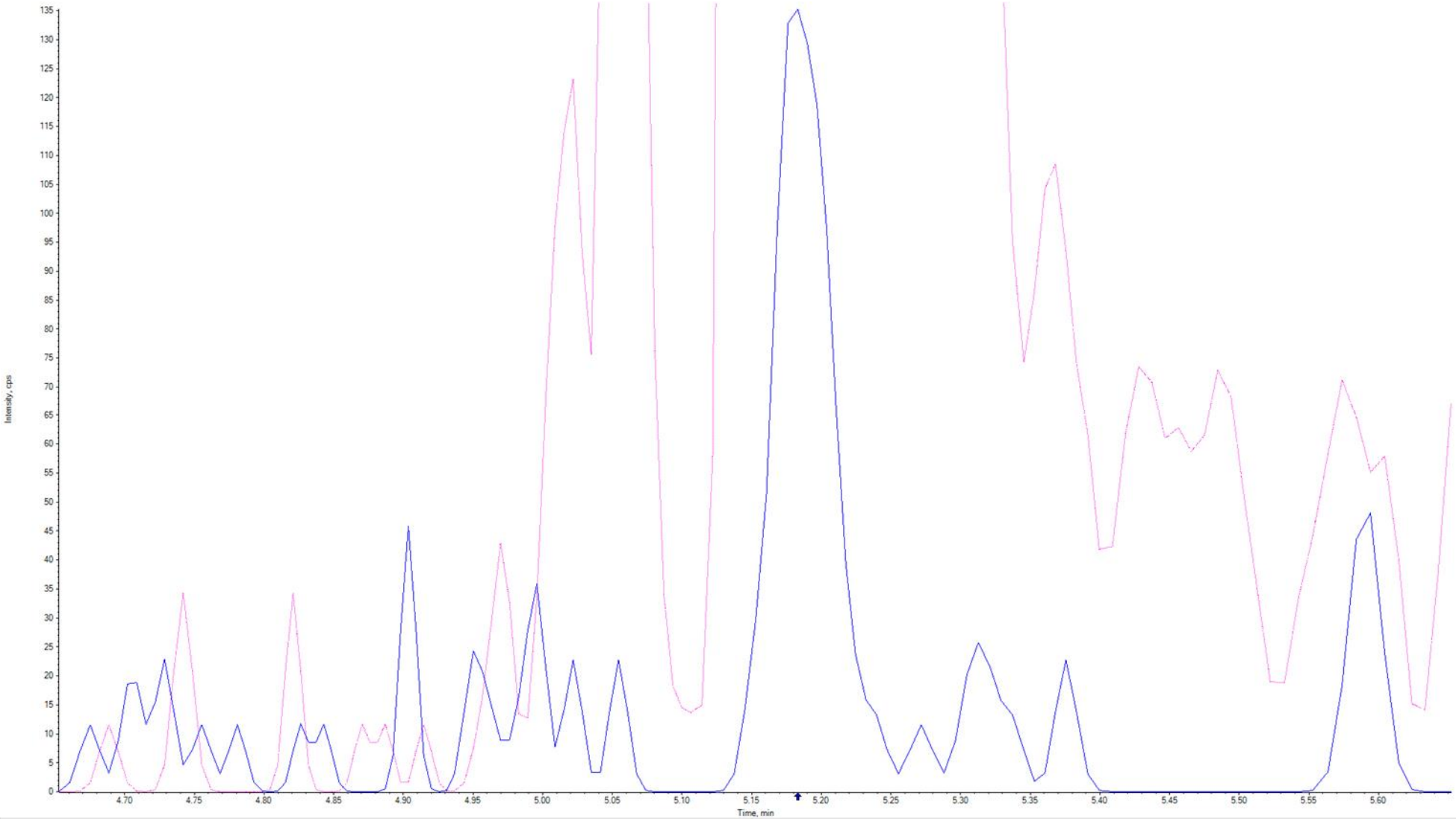
PFOSA
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



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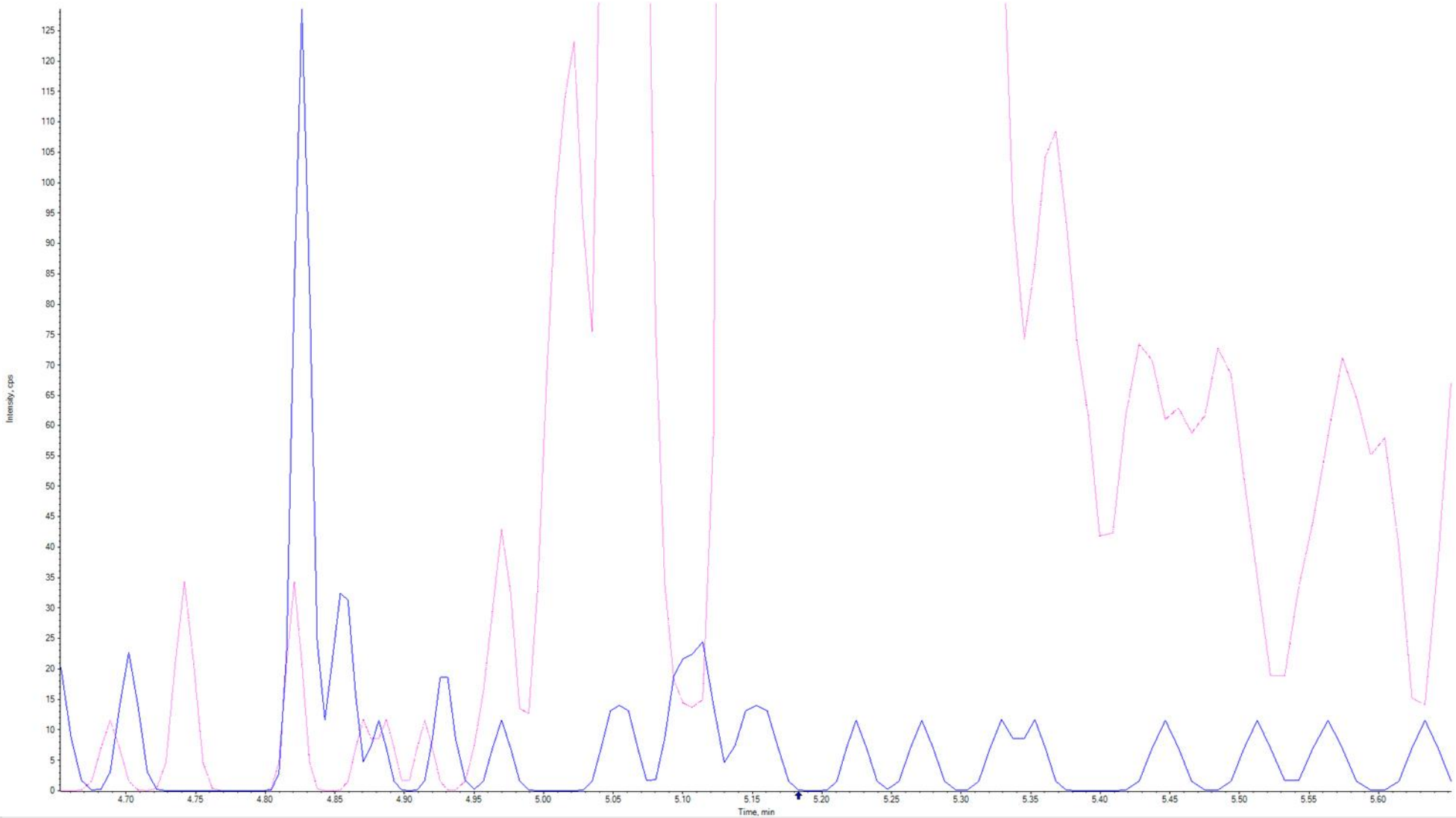
PFOSA_2
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



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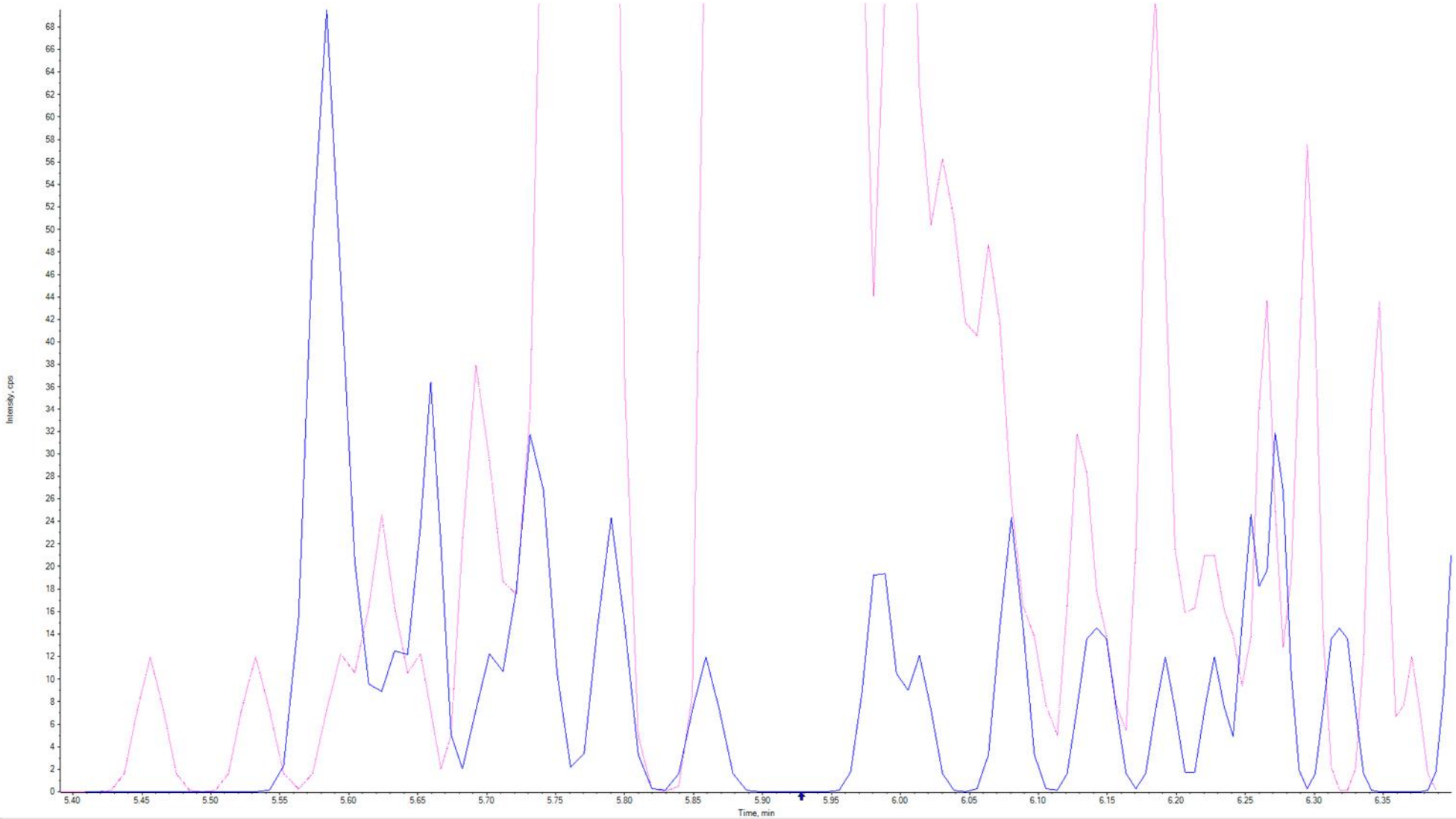
Generated: 12/20/2024 10:43:43 AM

NMeFOSA
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



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NMeFOSA_2
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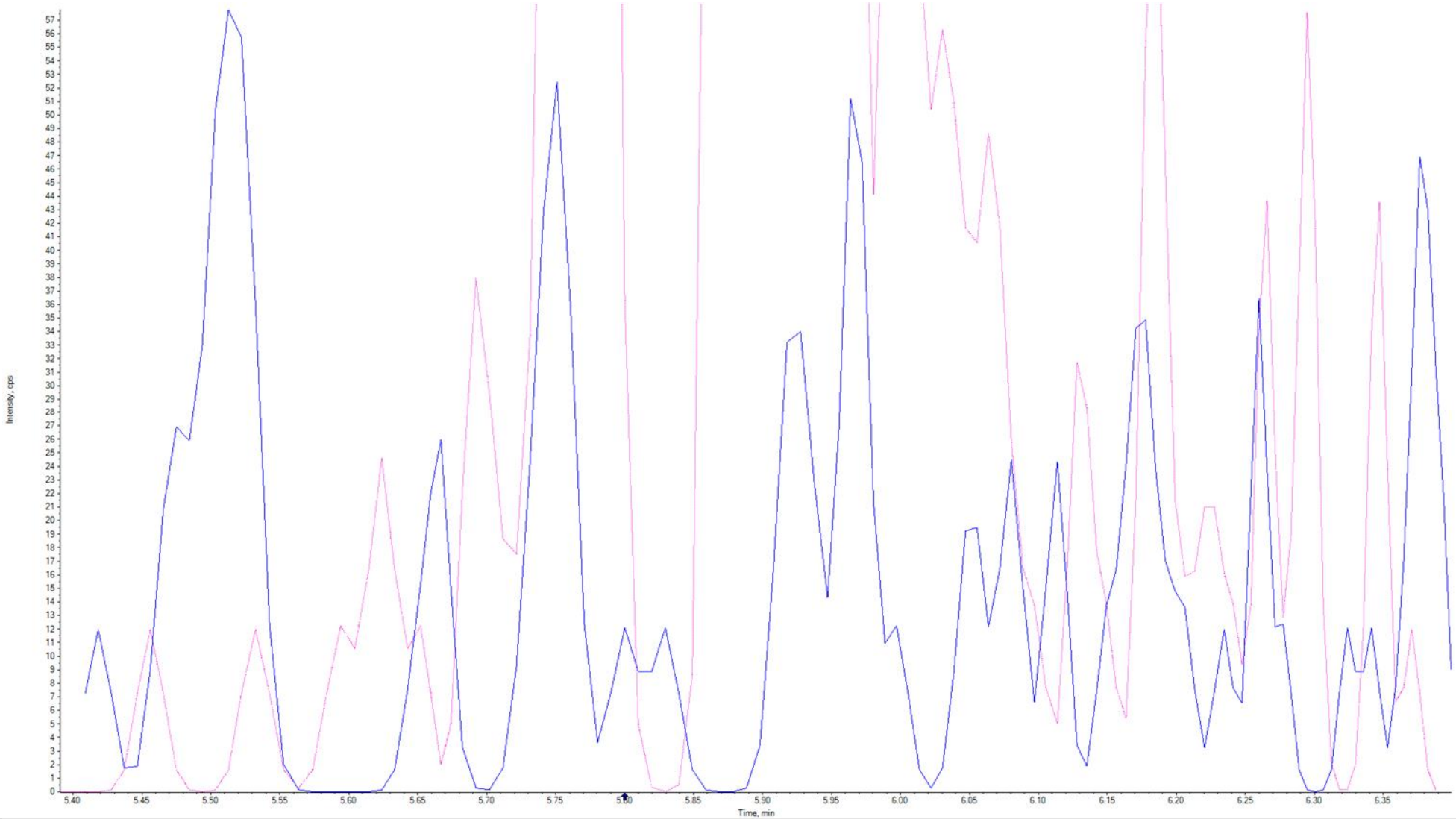

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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NEtFOSA
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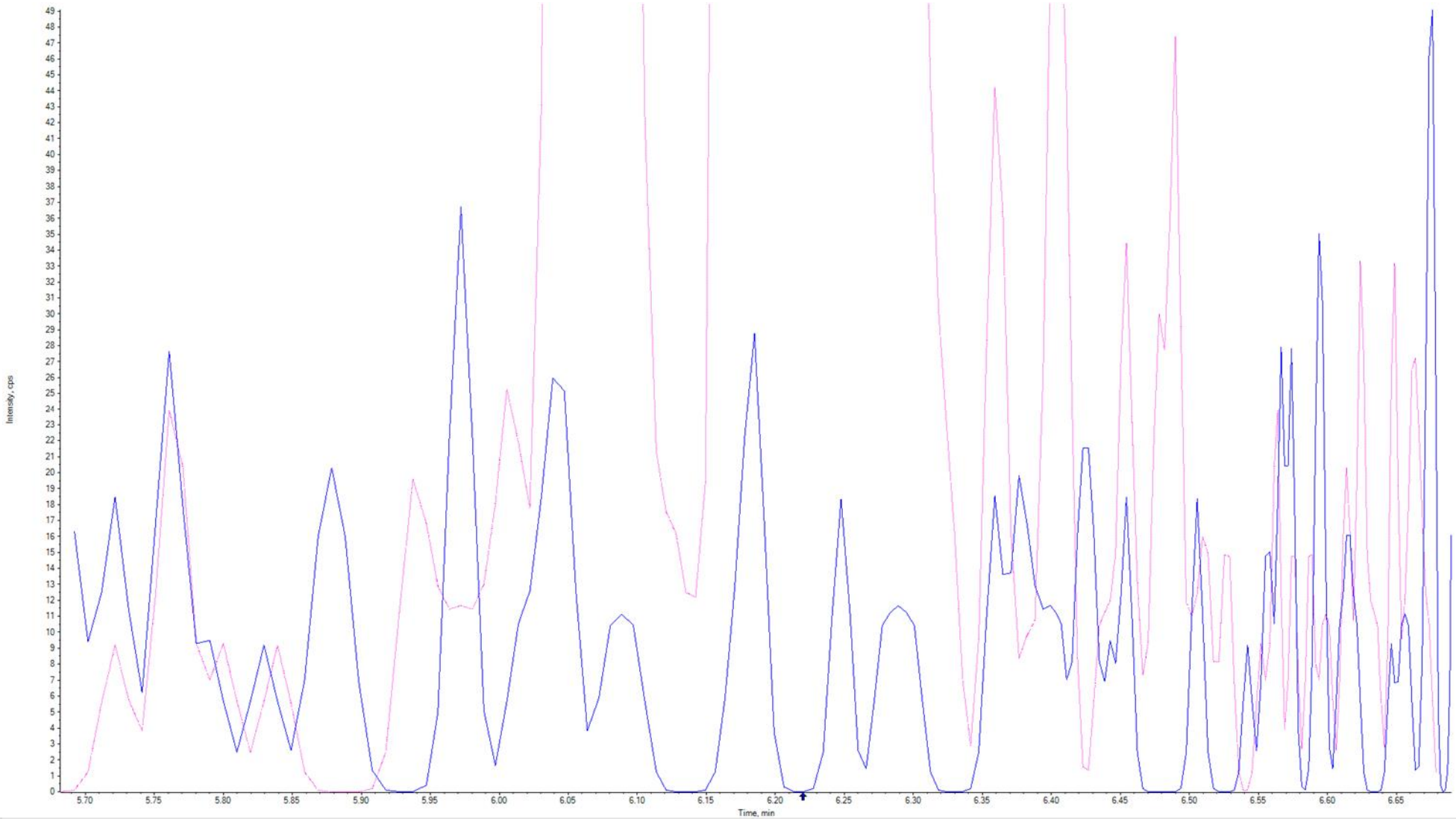

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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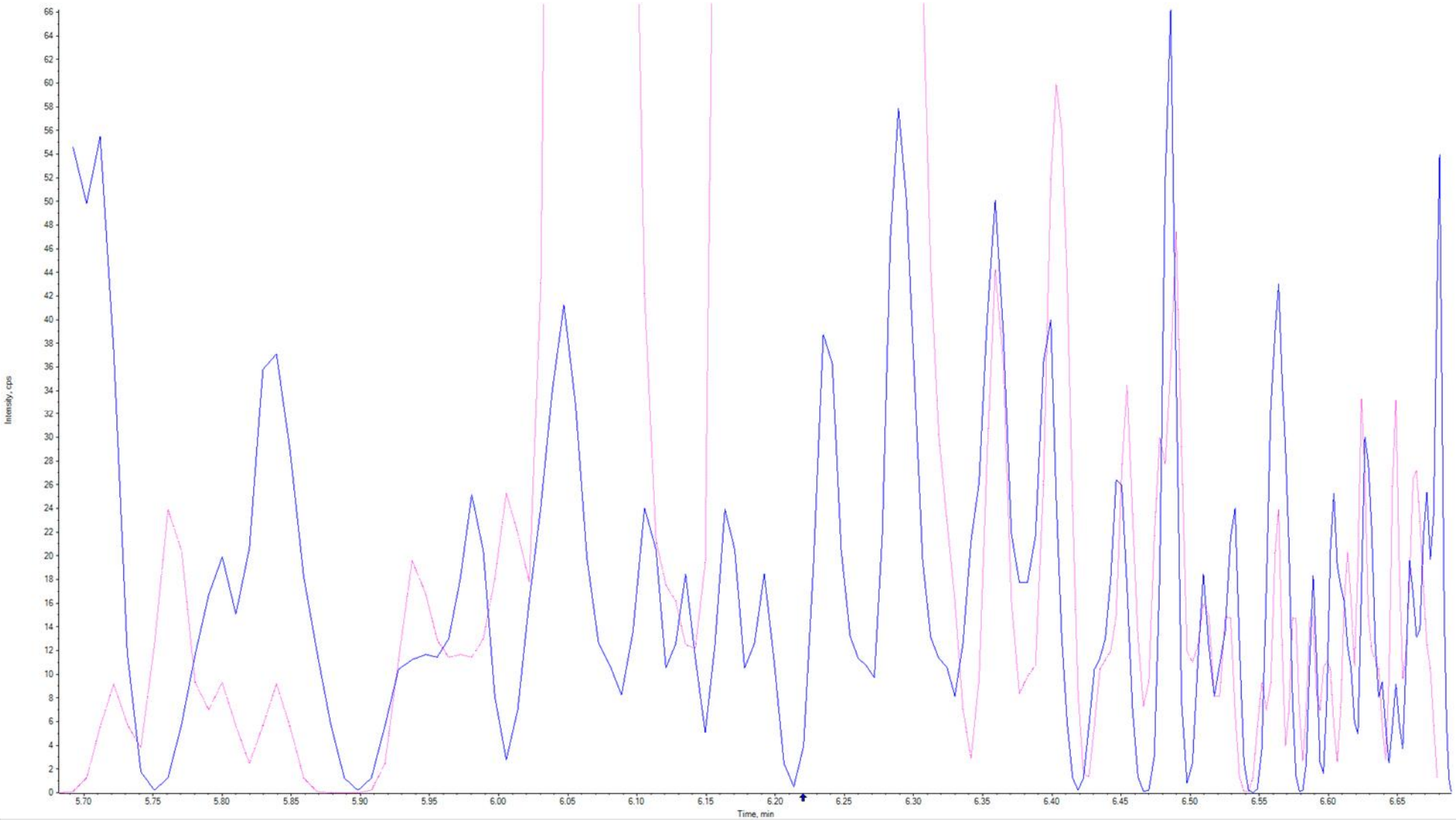
NEtFOSA_2
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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NMeFOSAA
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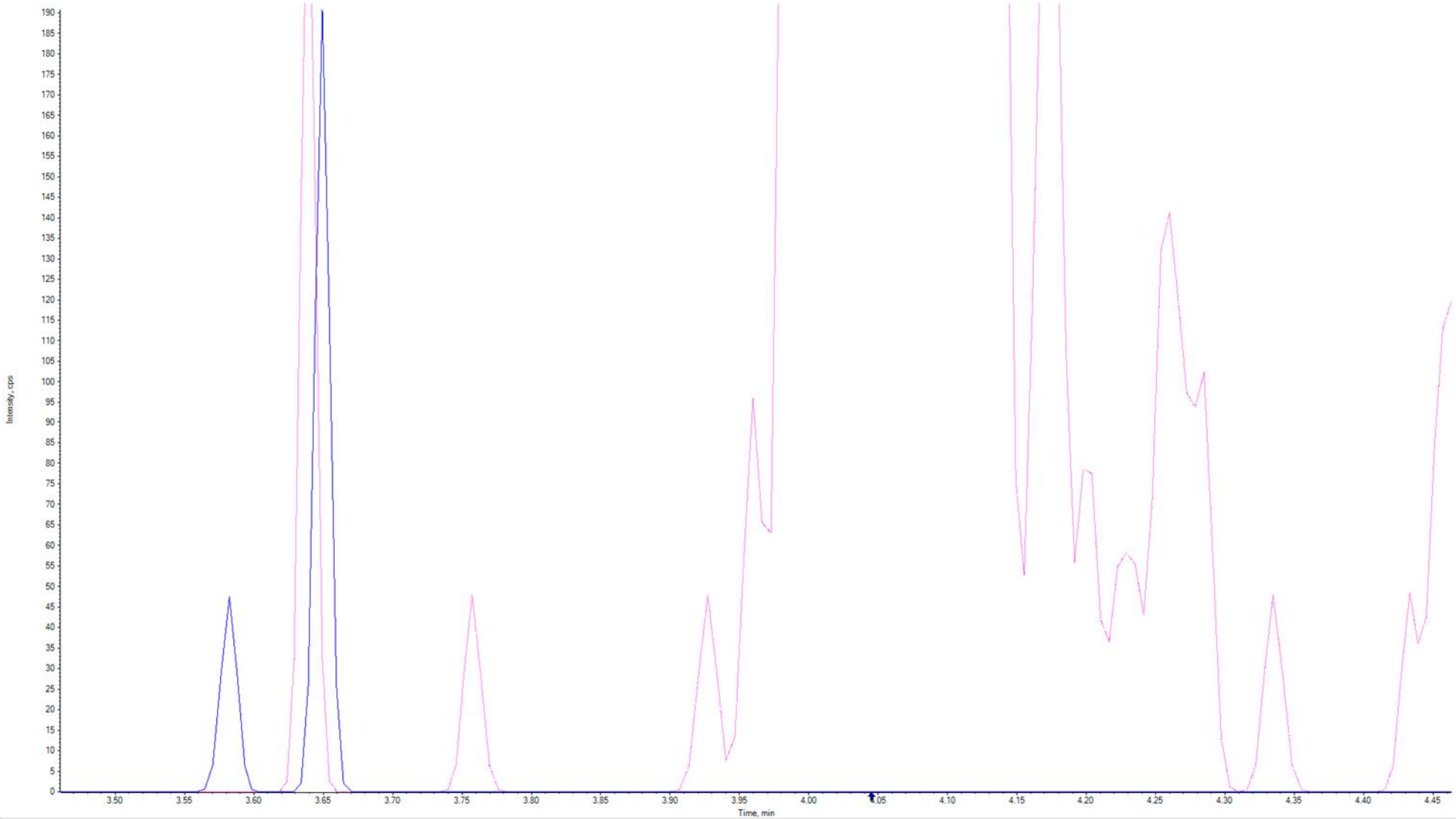

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NMeFOSAA_2
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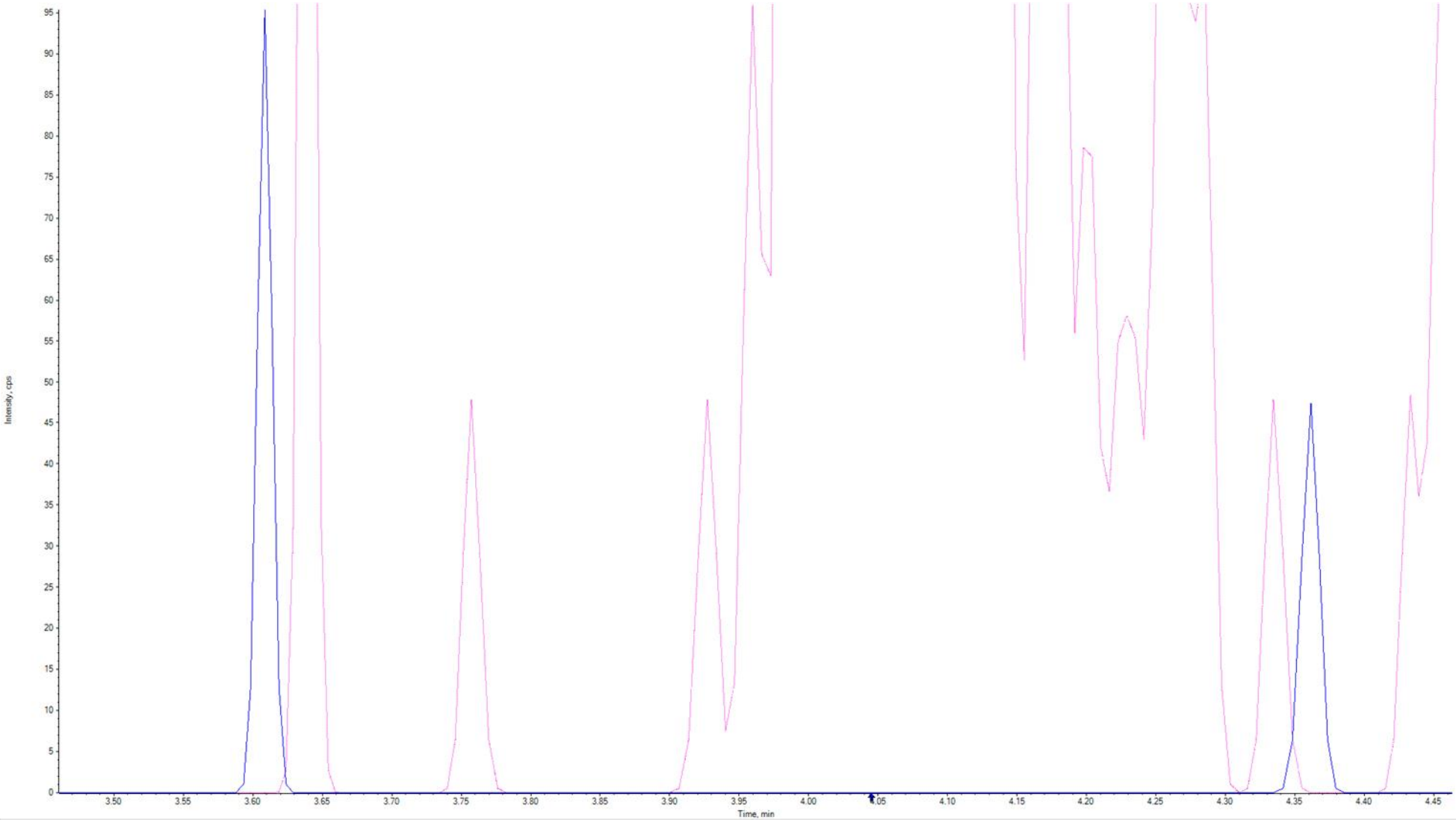

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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Generated: 12/20/2024 10:43:43 AM

NEtFOSAA
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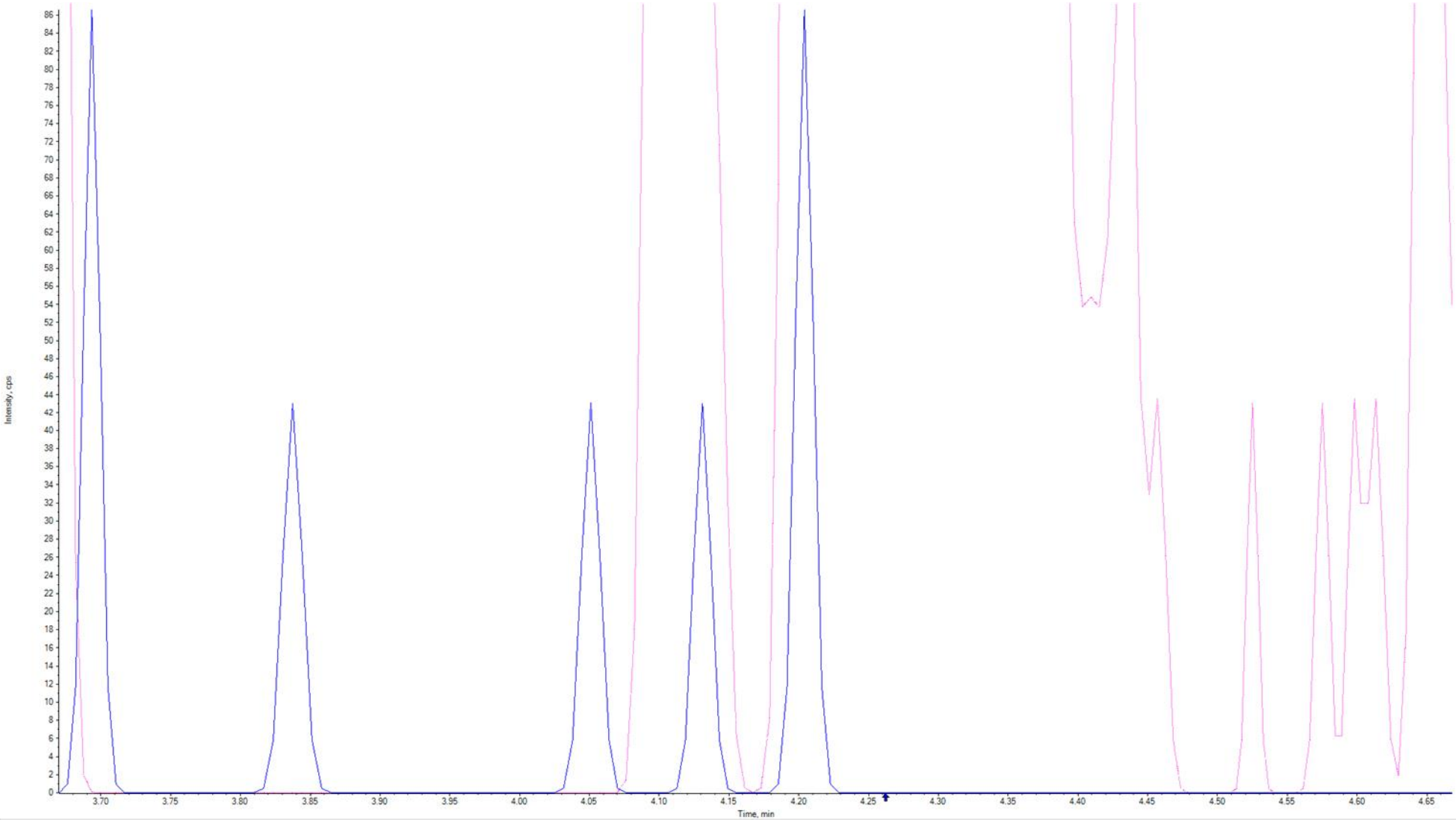

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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NEtFOSAA_2
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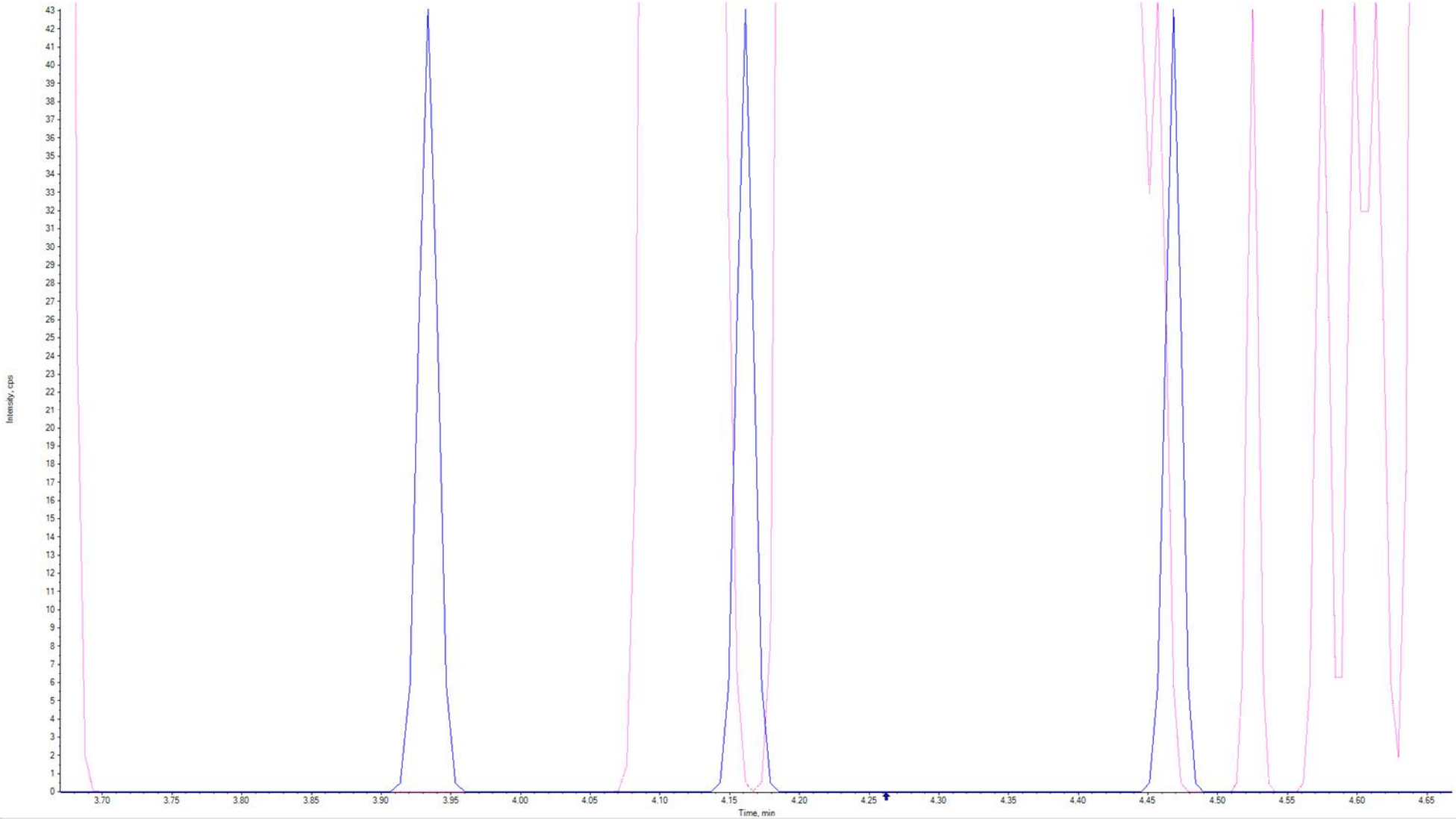

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NMeFOSE
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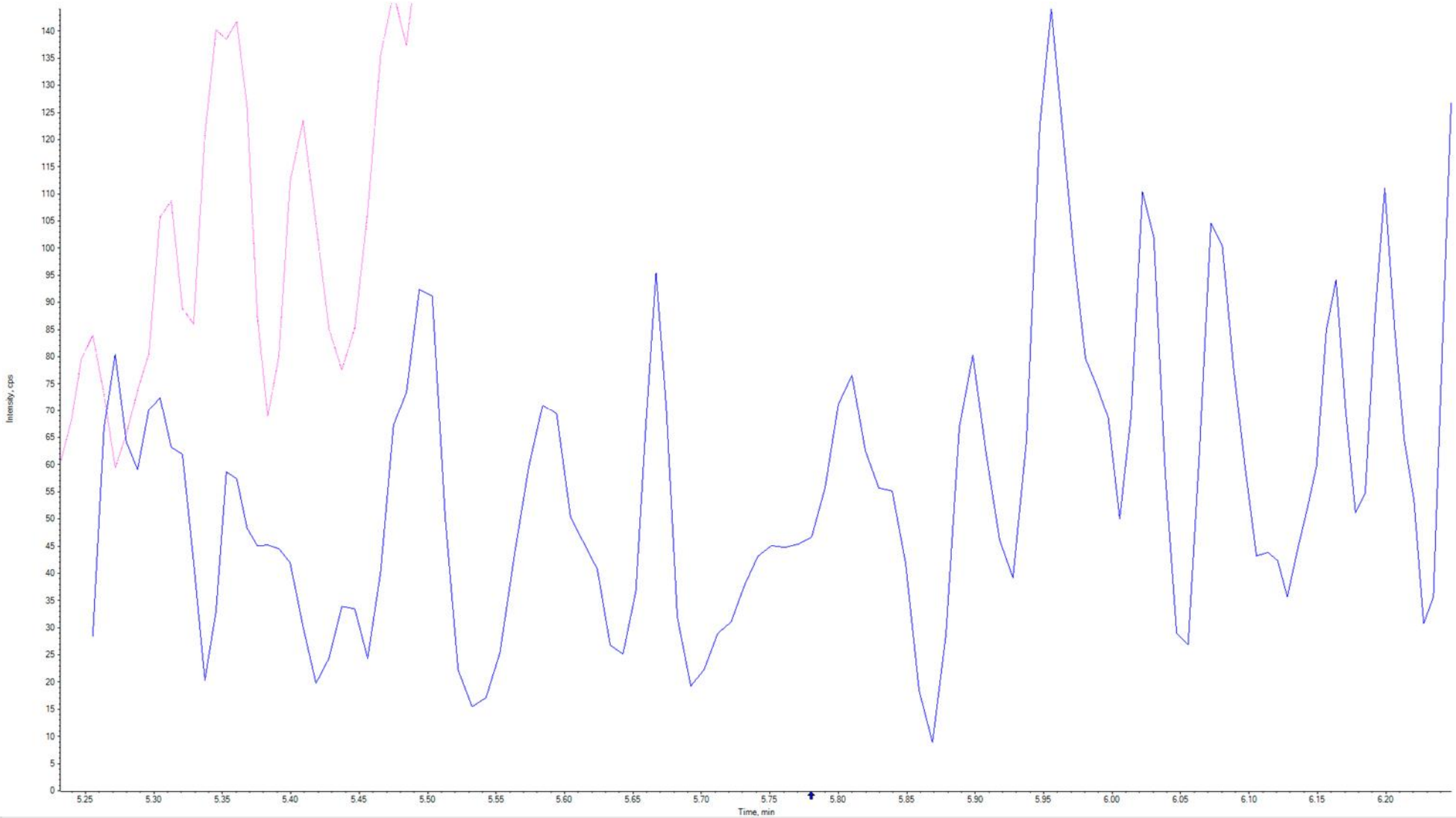

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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Generated: 12/20/2024 10:43:43 AM

NEtFOSE
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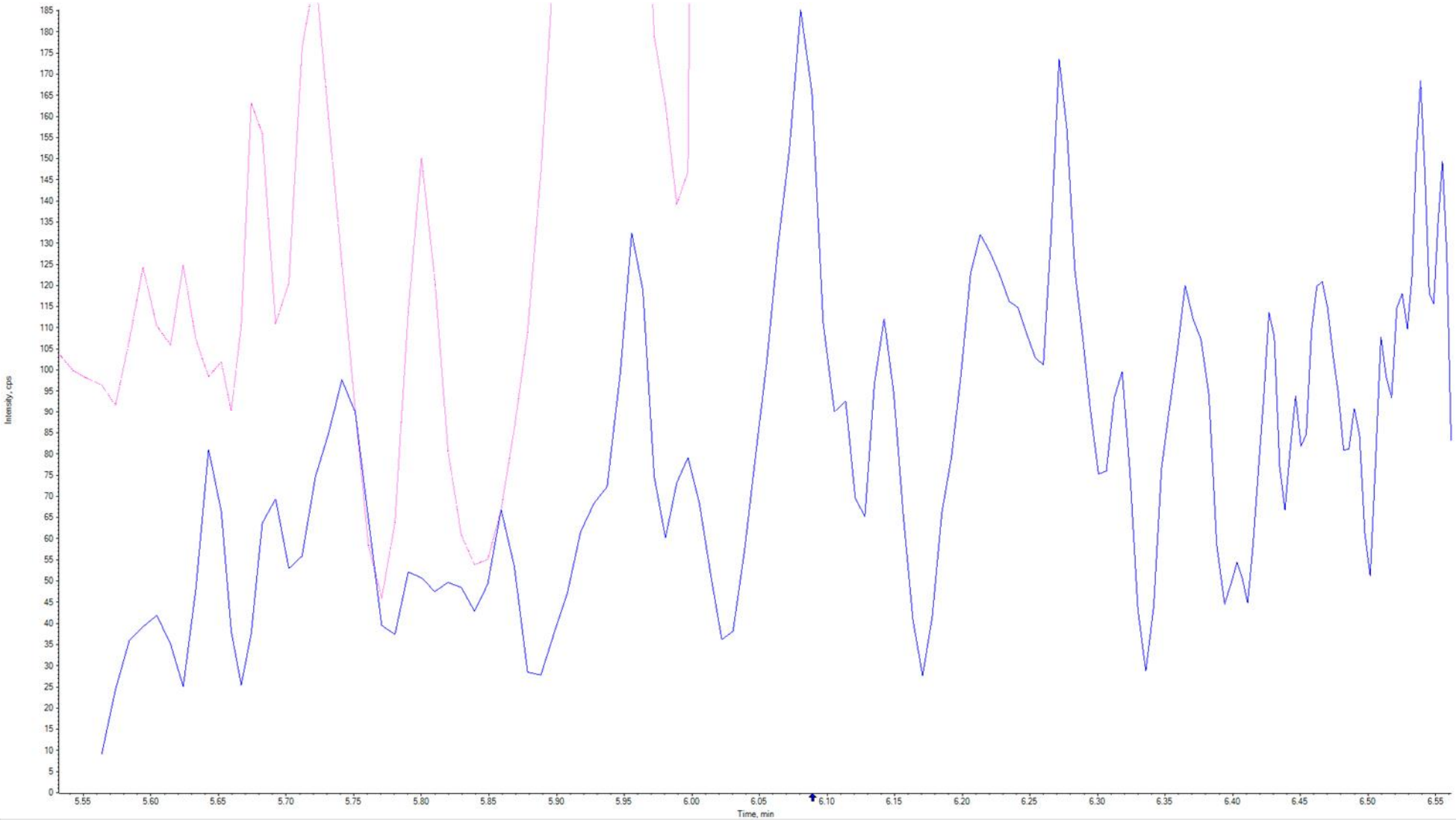

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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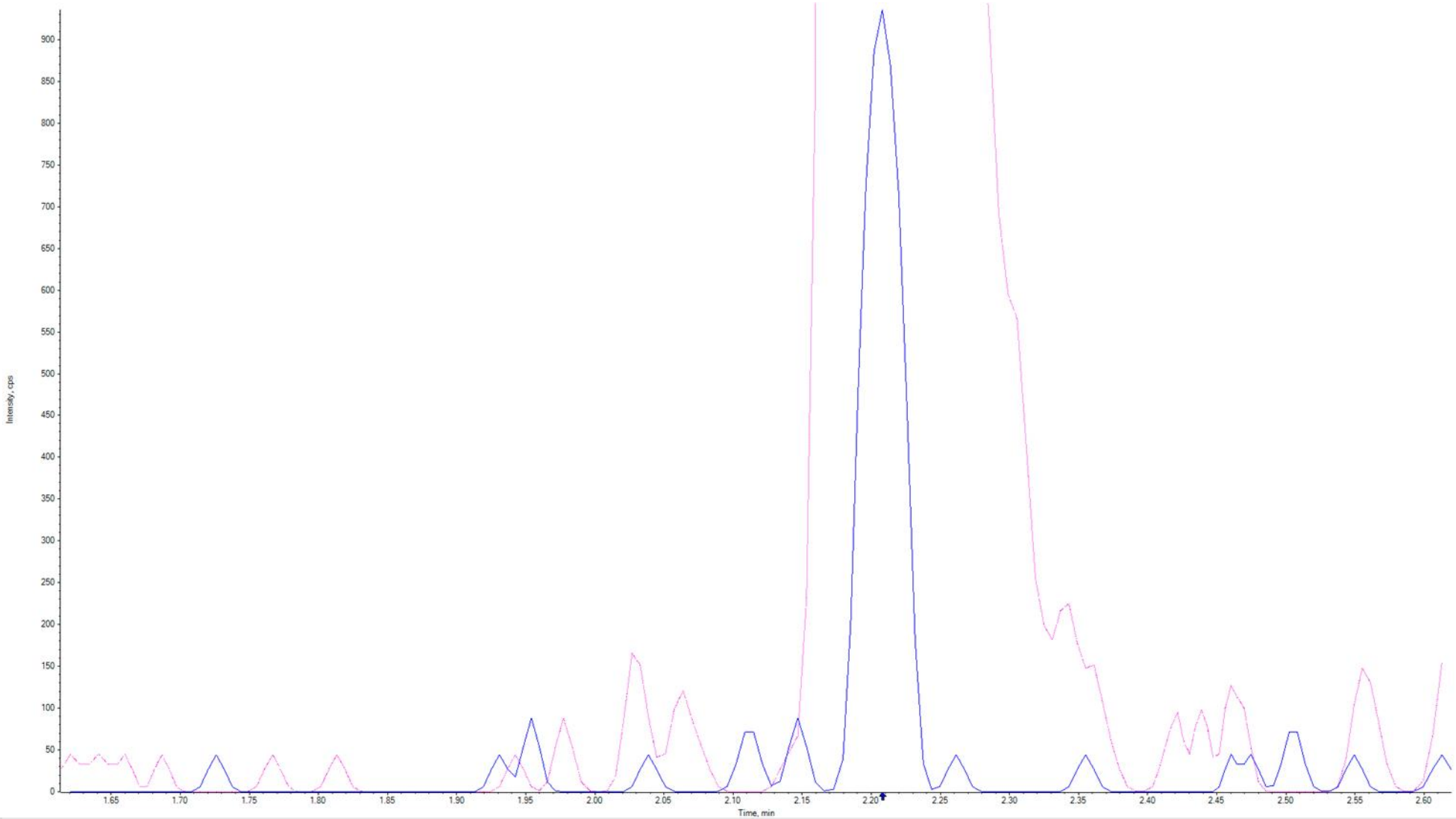
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

HFPO-DA
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 12/20/2024 12:29:45 PM
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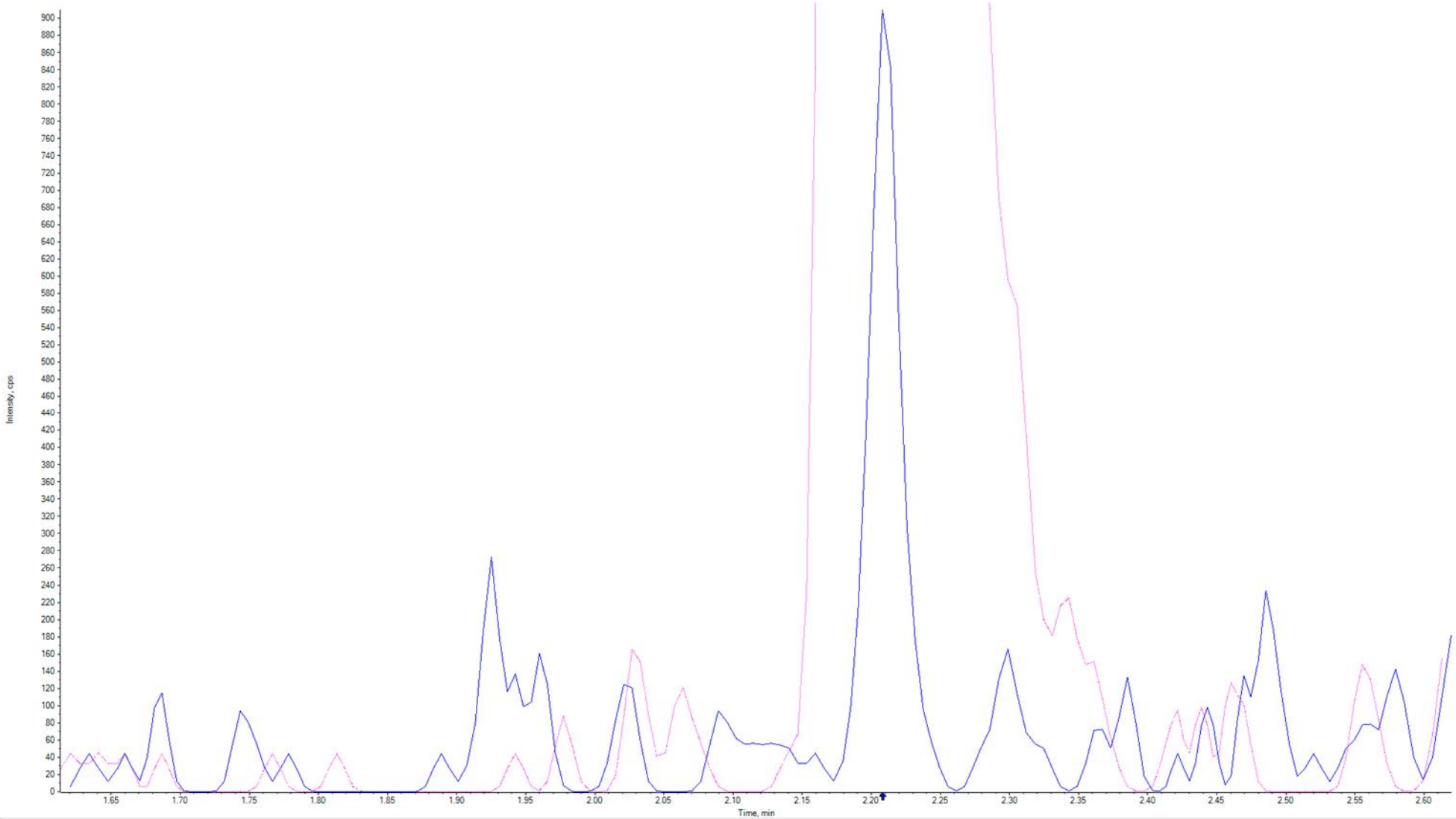
HFPO-DA_2
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Generated: 12/20/2024 10:43:43 AM

ADONA
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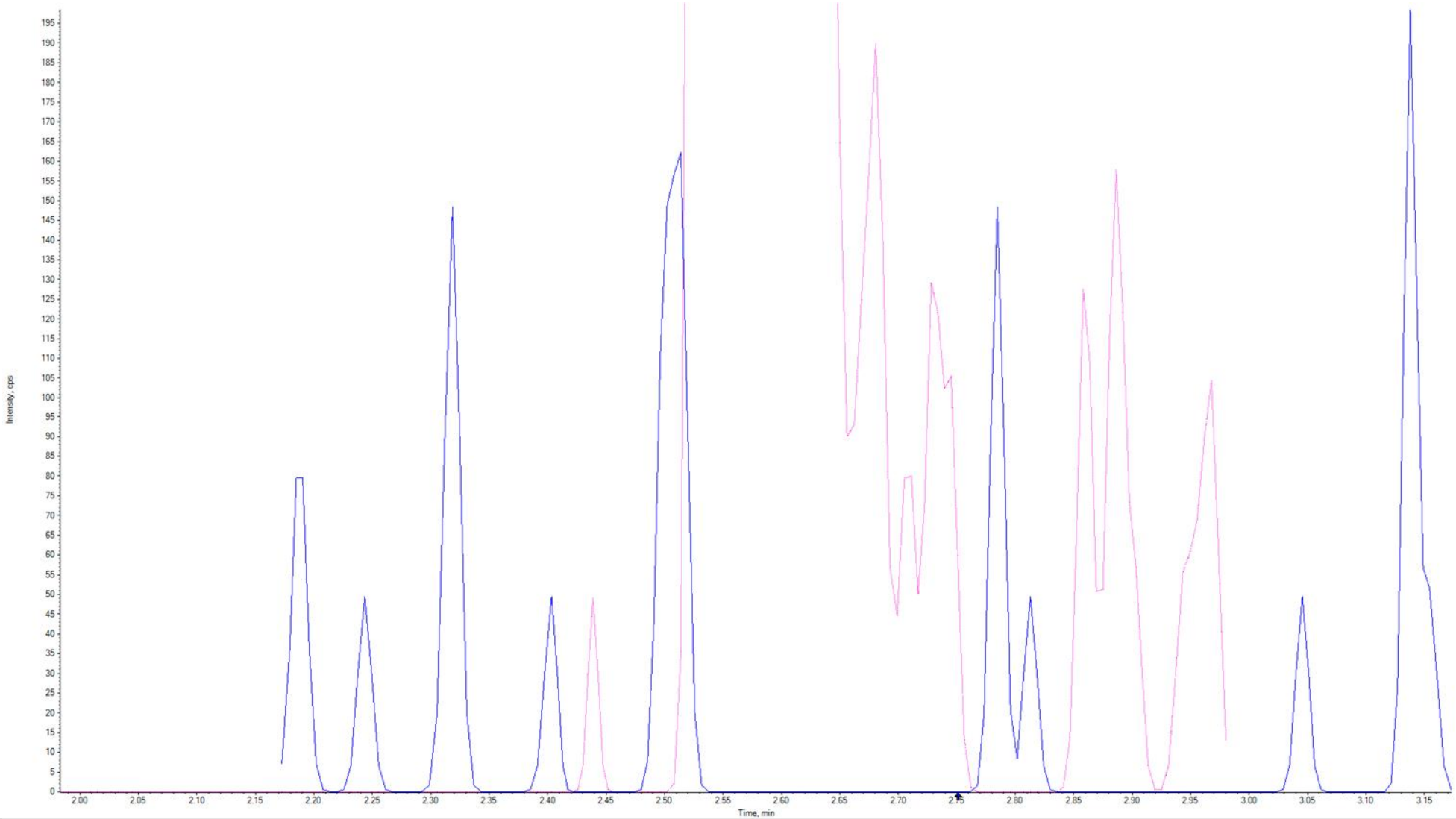

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Generated: 12/20/2024 10:43:43 AM

ADONA_2
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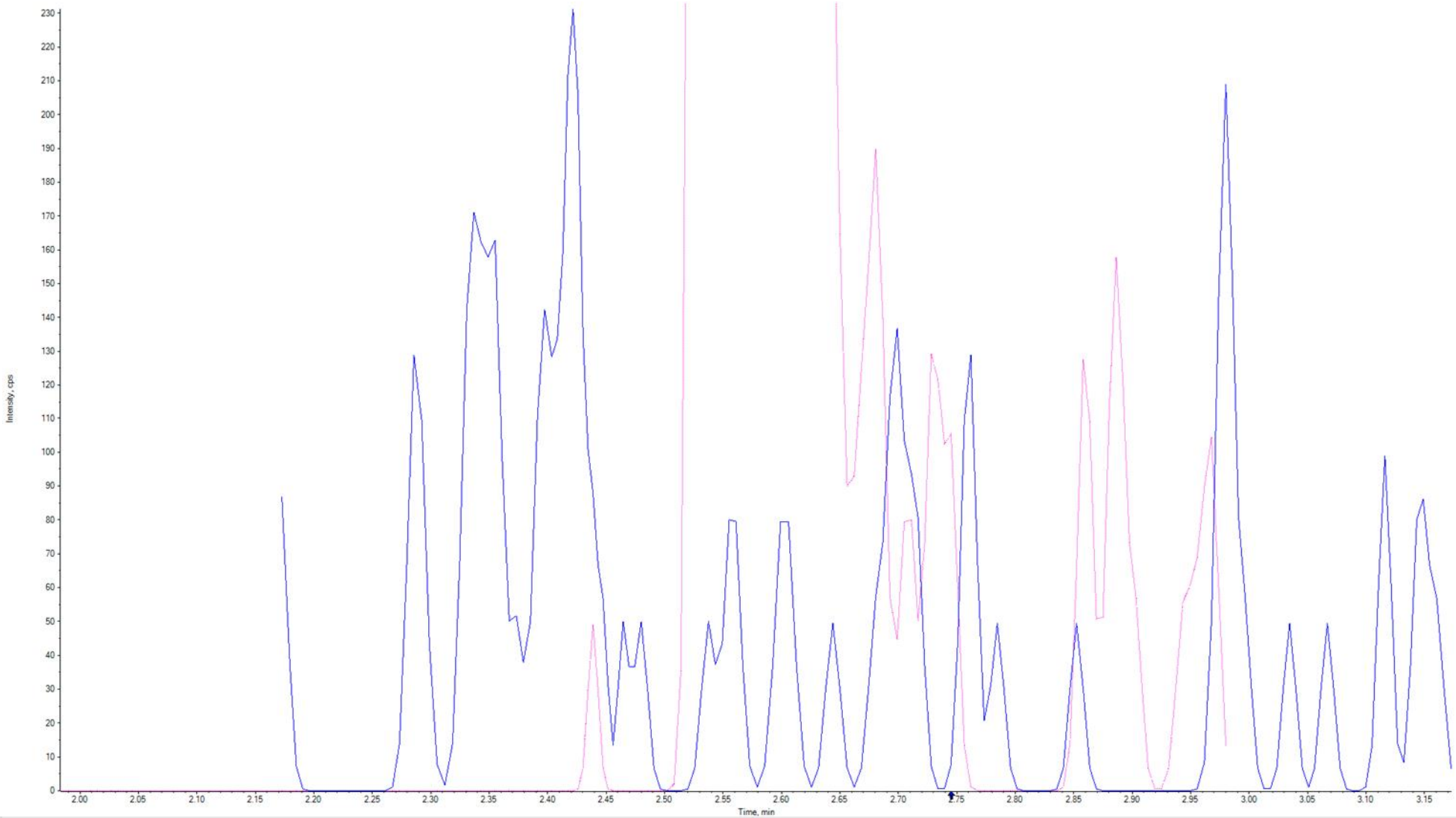
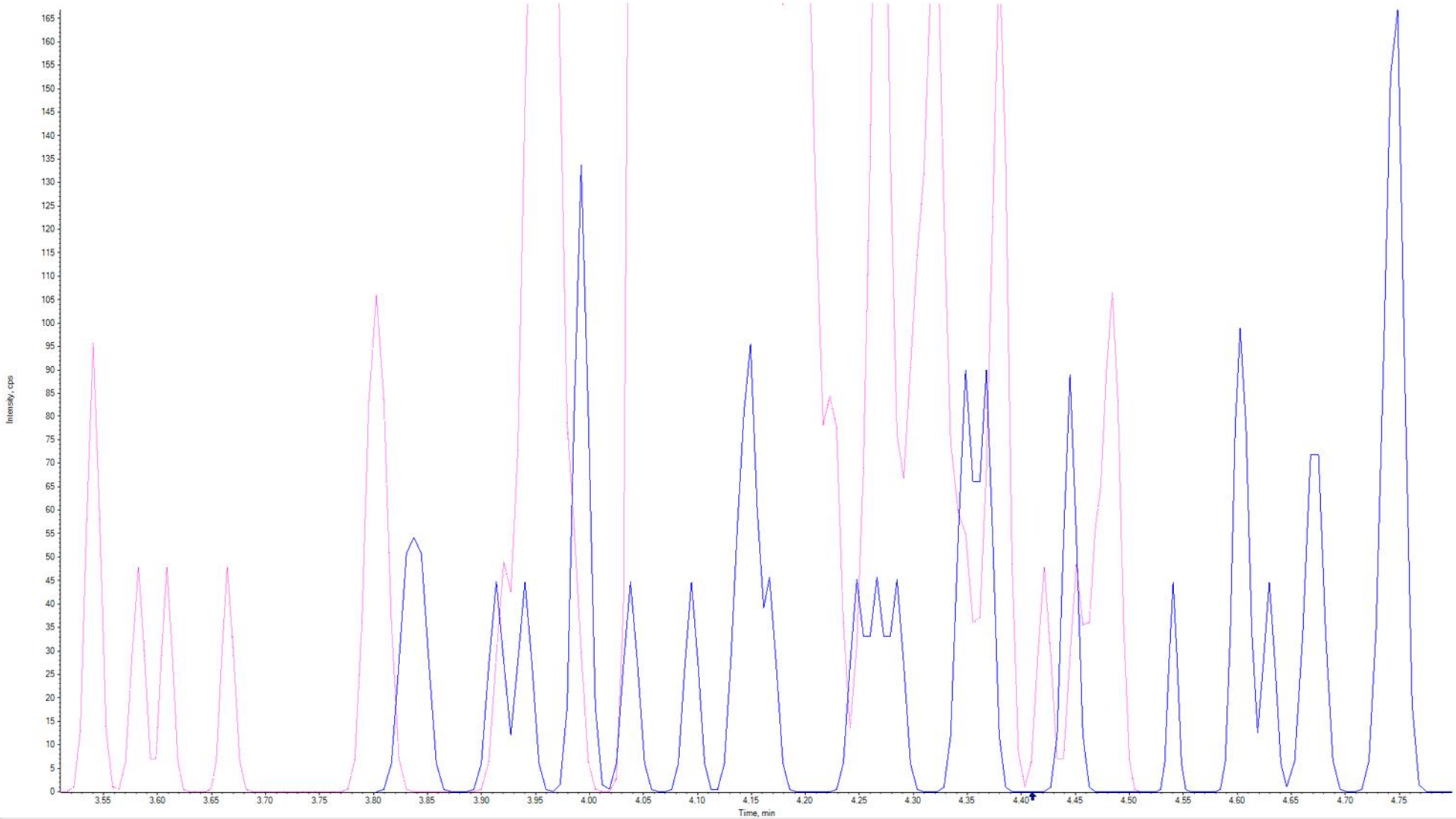


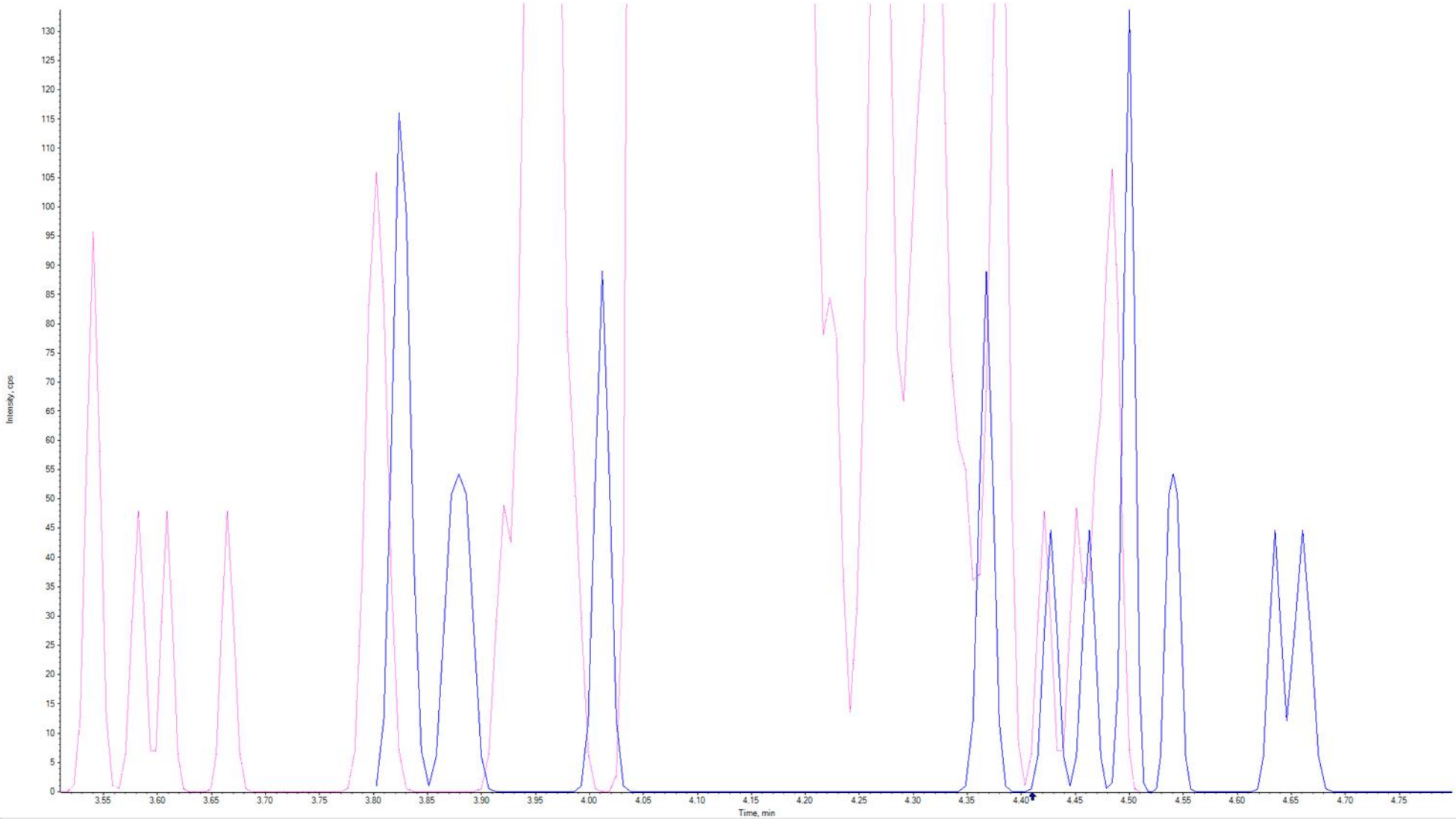
Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_39.wiff2_6
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

9Cl-PF3ONS
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_39.wiff2_6
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

9Cl-PF3ONS_2
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



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Alpha Analytical LLC
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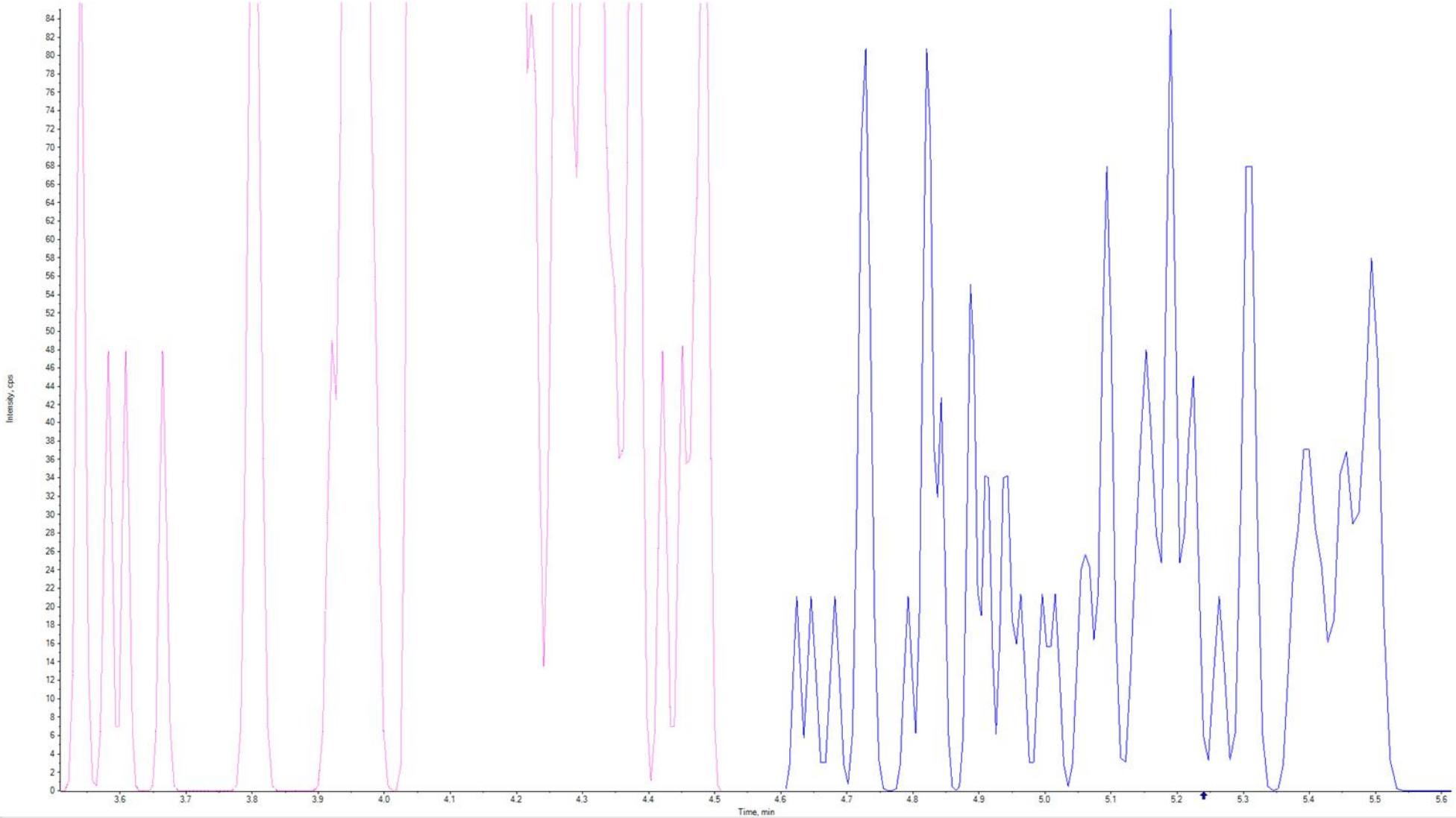
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

11Cl-PF3OUdS
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 12/20/2024 12:29:45 PM
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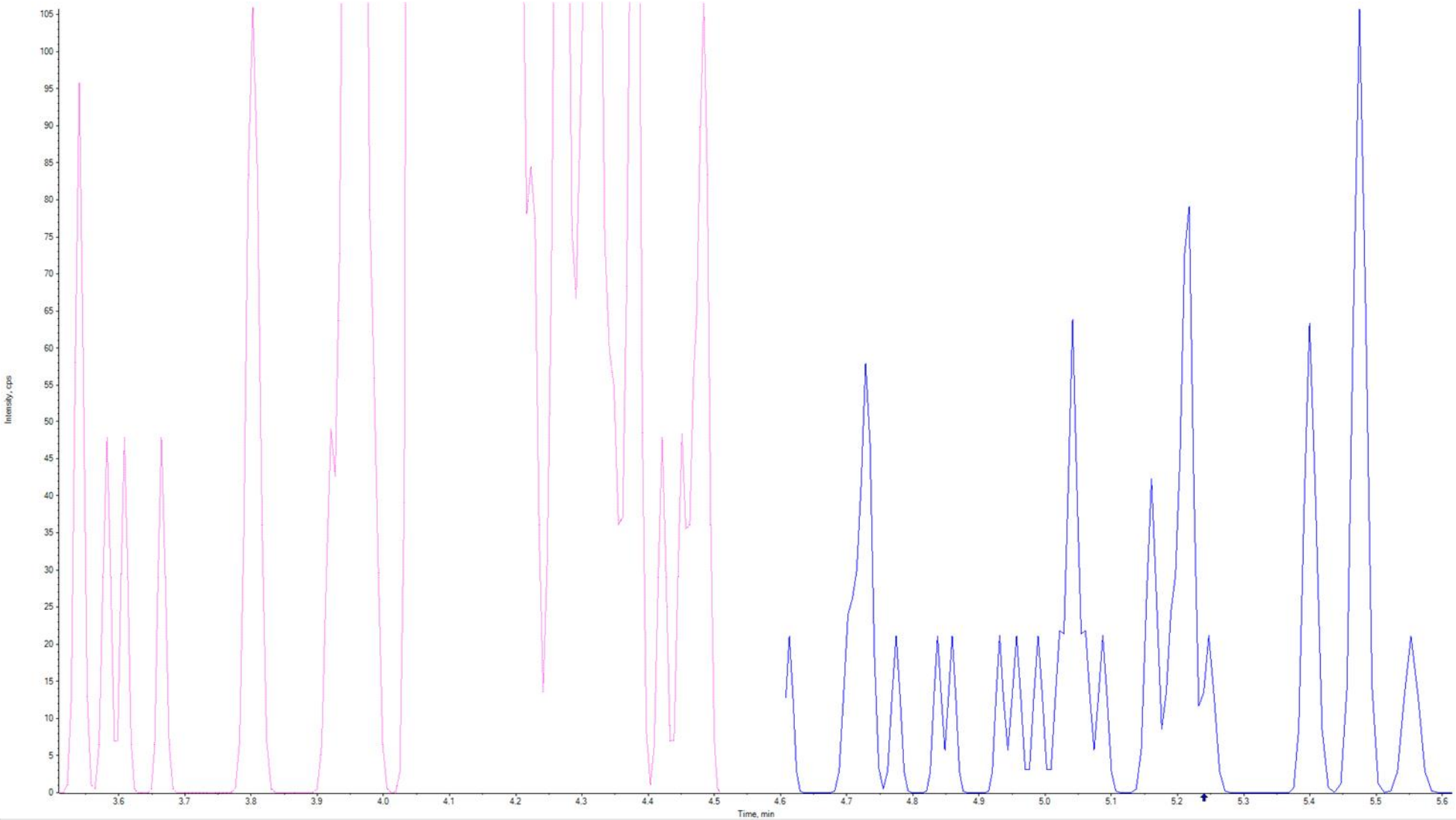
11Cl-PF3OUdS_2
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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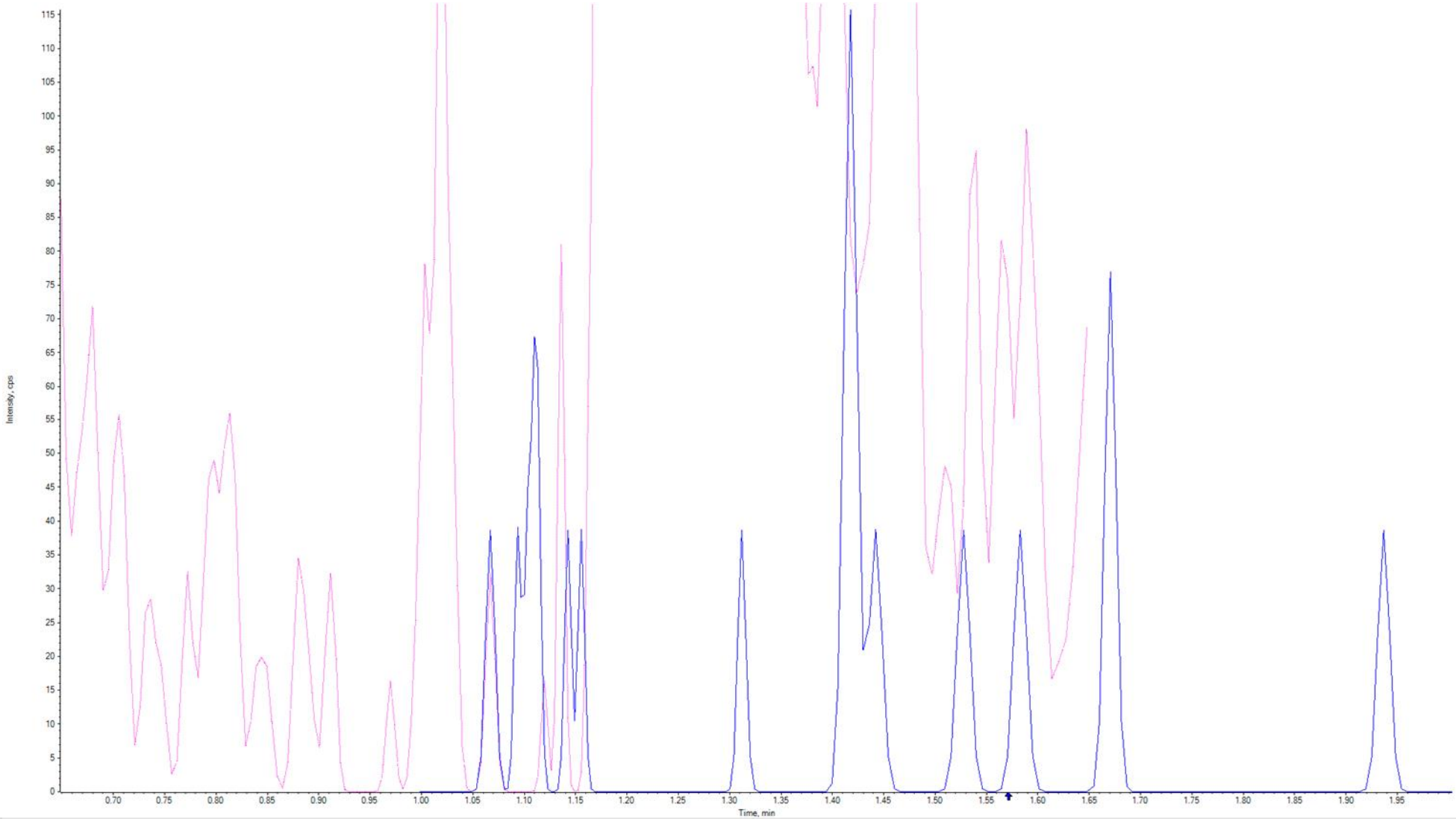
3:3FTCA
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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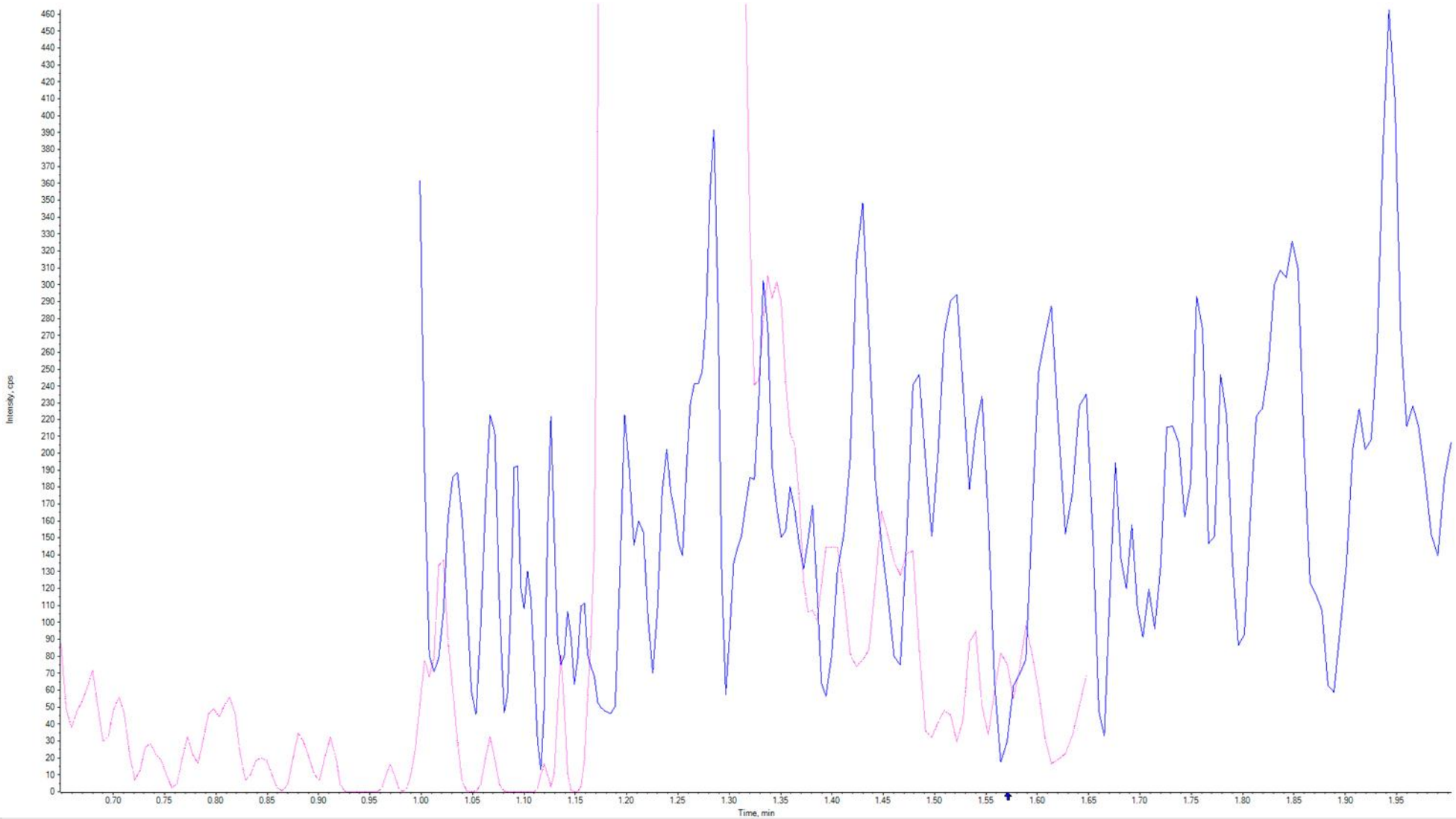
3:3FTCA_2
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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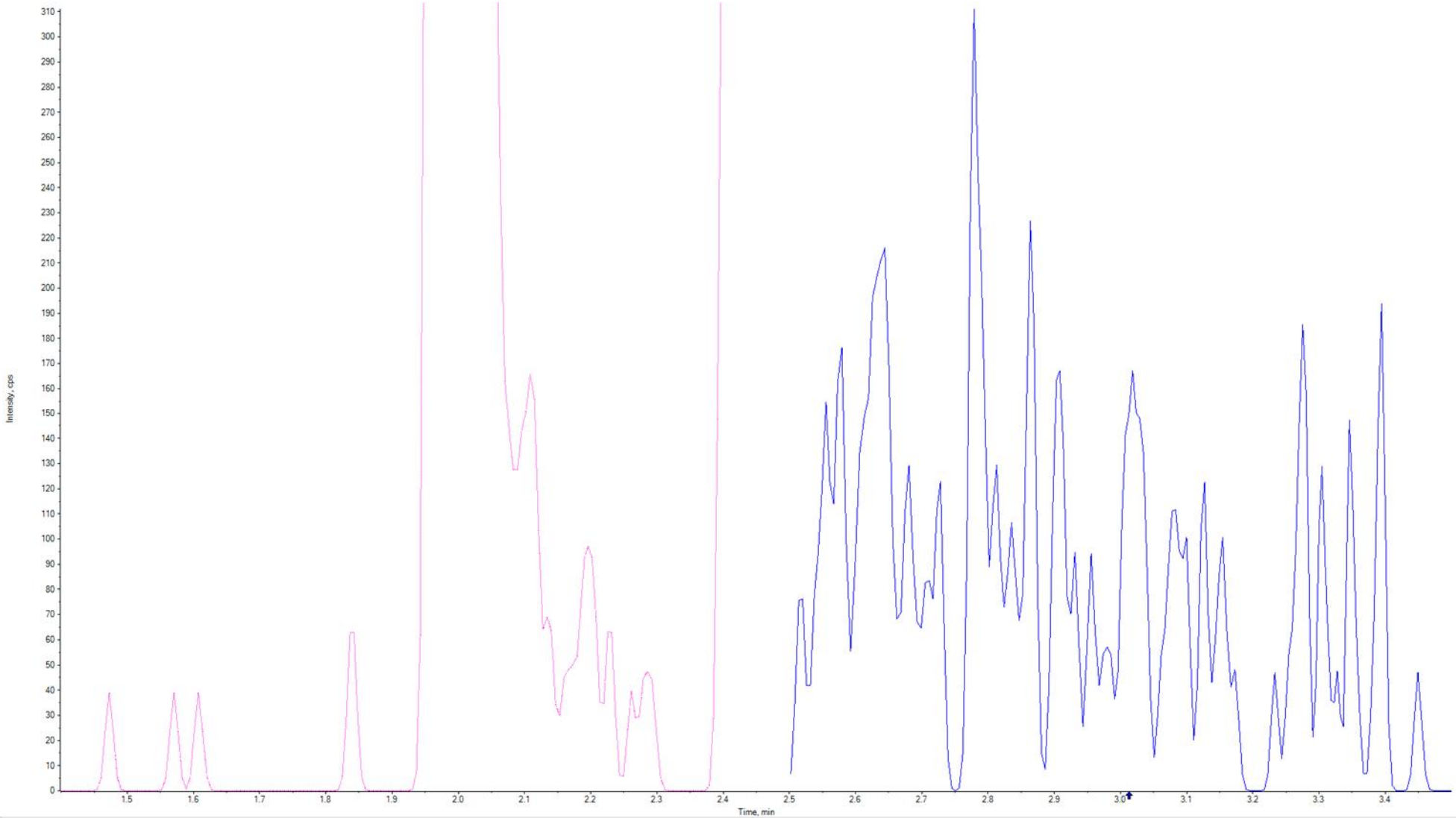
Generated: 12/20/2024 10:43:43 AM

5:3FTCA
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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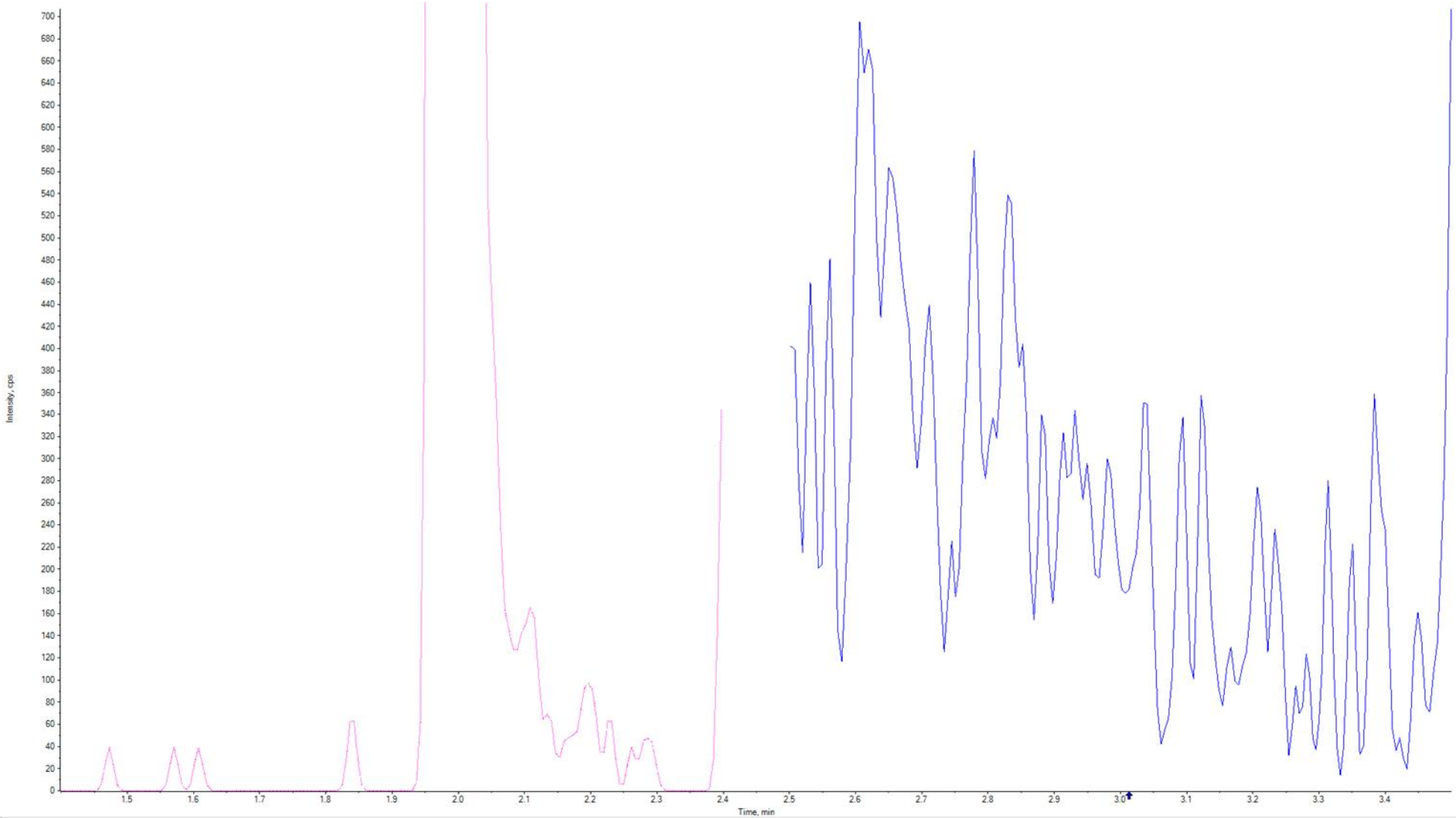
5:3FTCA_2
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 12/20/2024 12:29:45 PM
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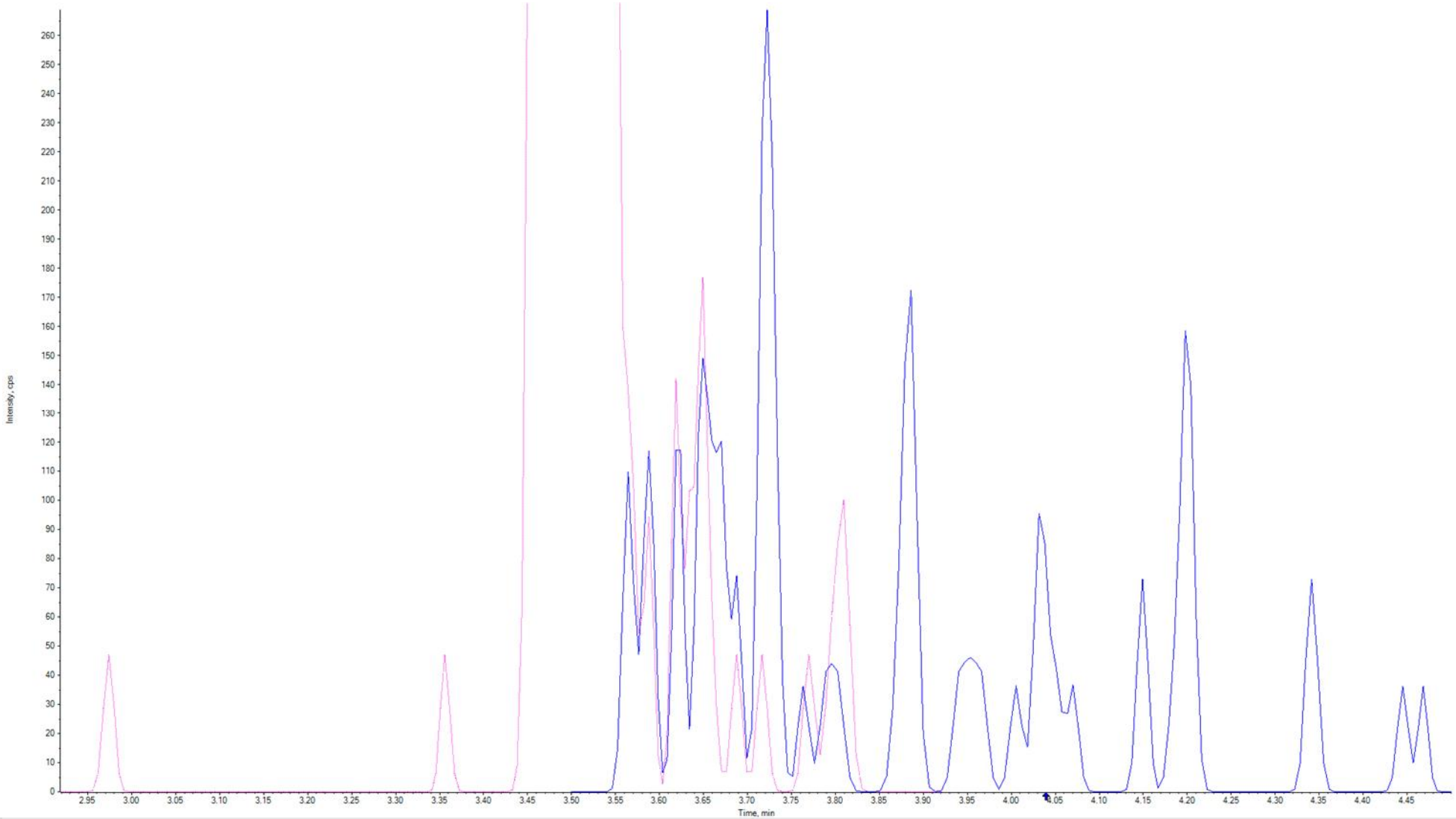
7:3FTCA
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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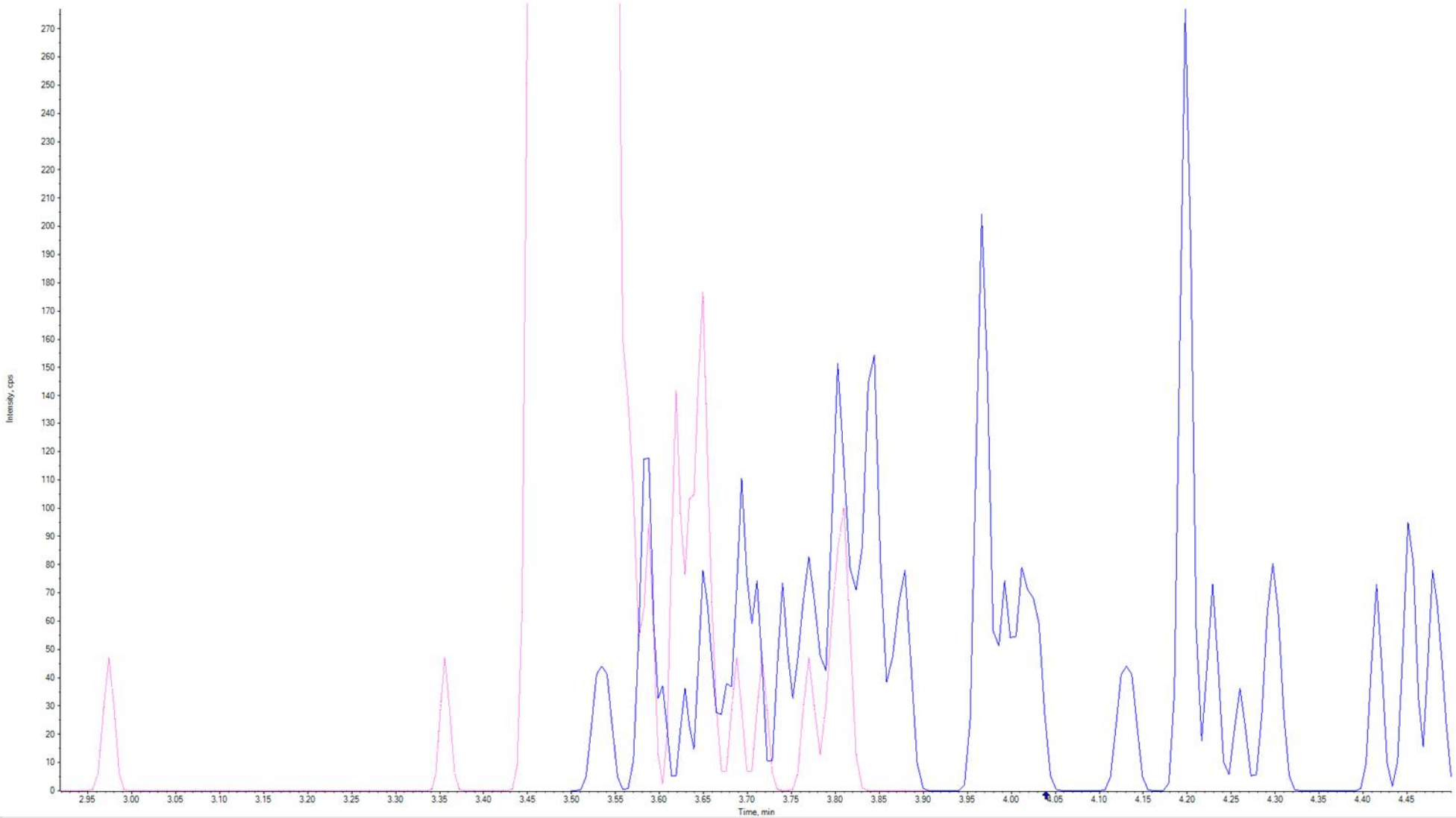
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

7:3FTCA_2
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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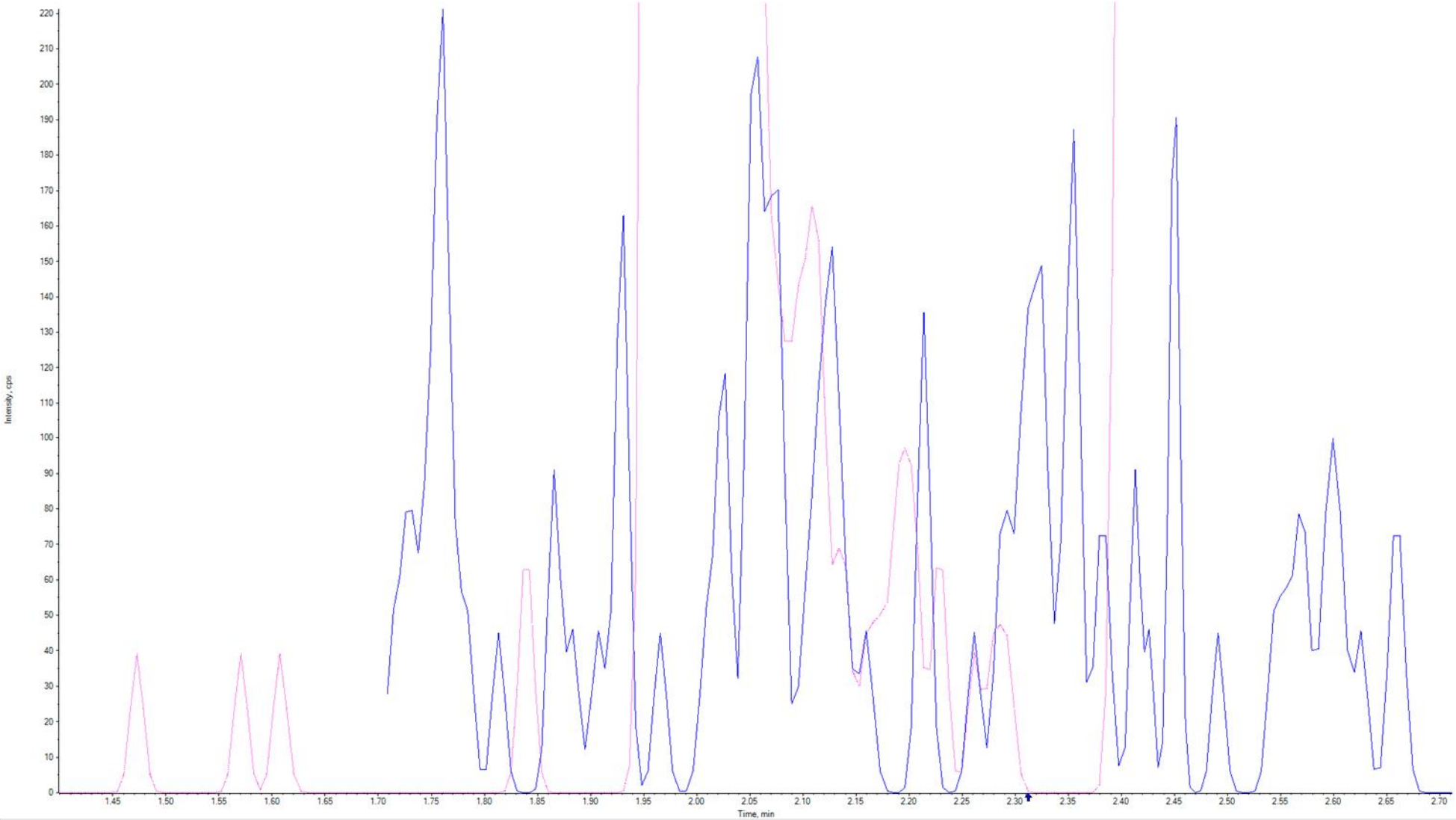
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFEESA
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 12/20/2024 12:29:45 PM
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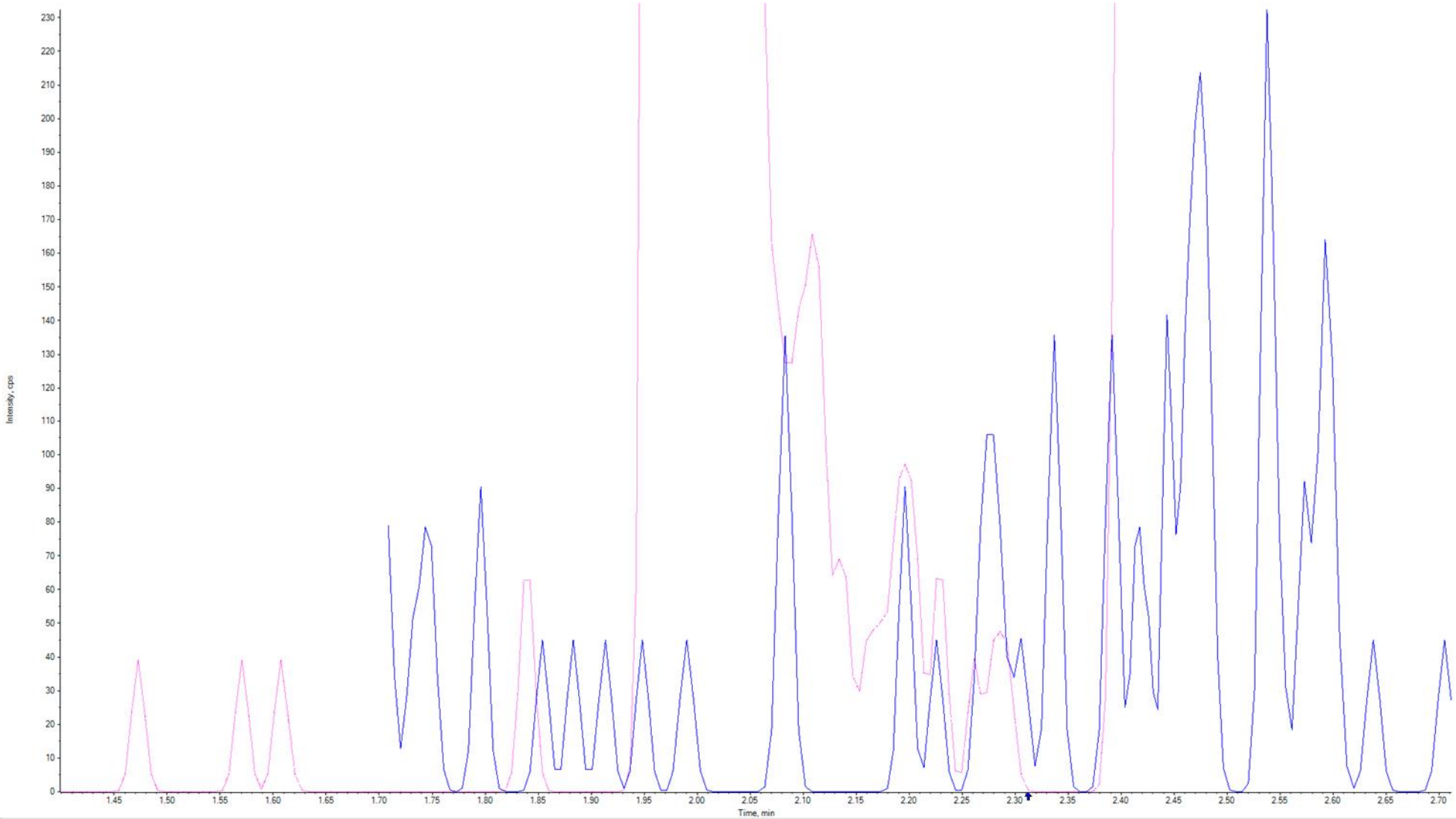
PFEESA_2
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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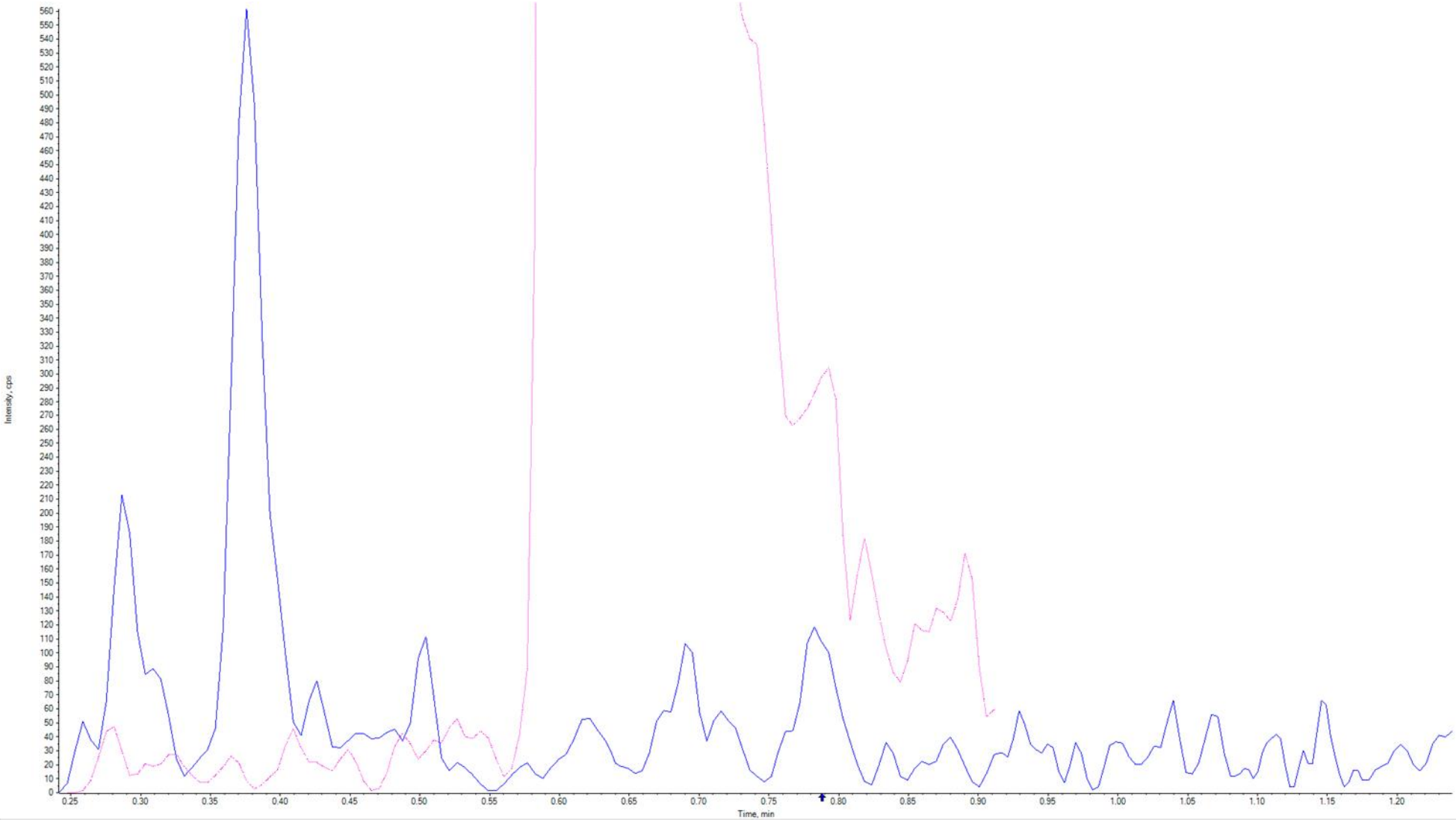
PFMPA
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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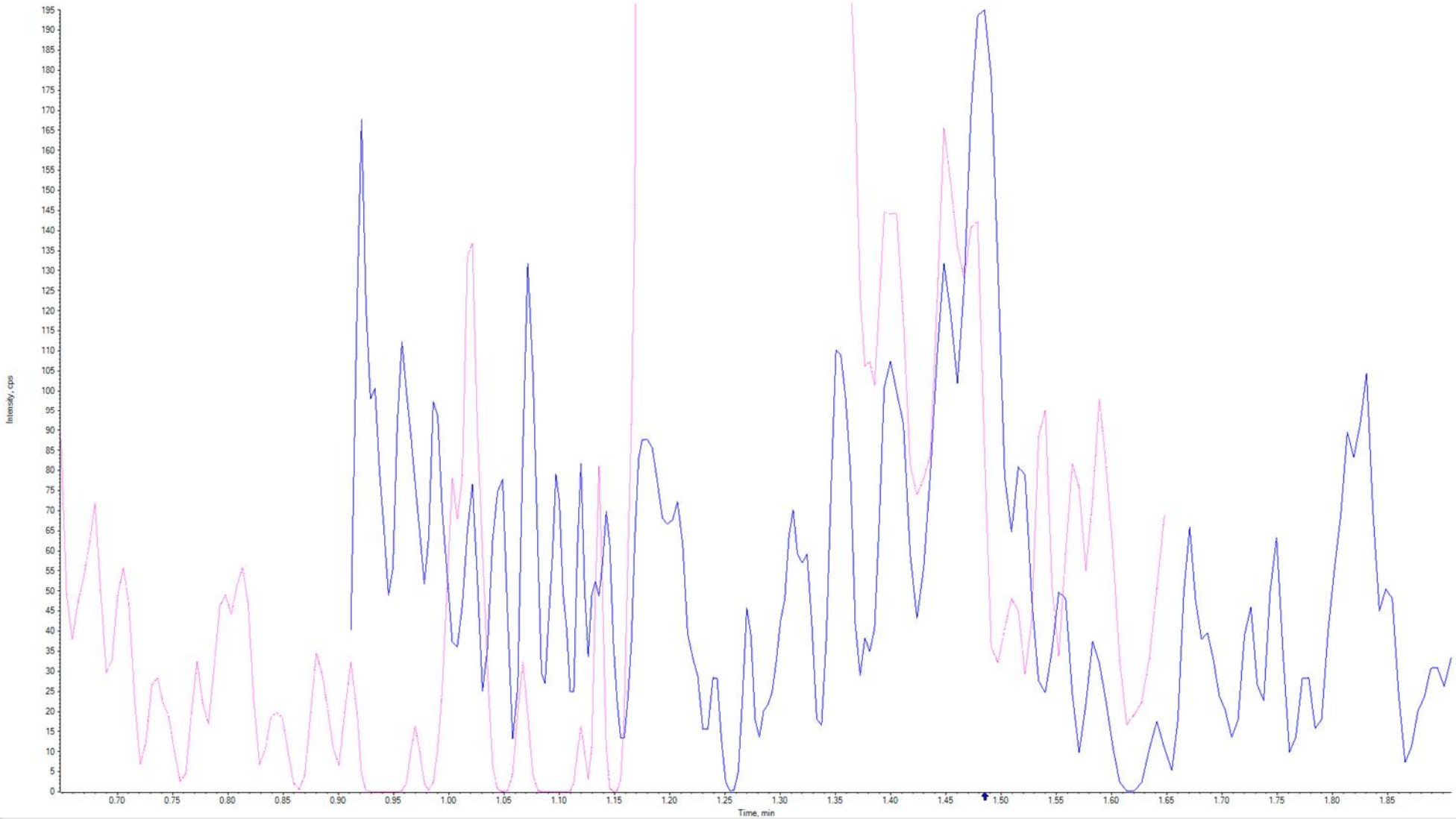
PFMBA
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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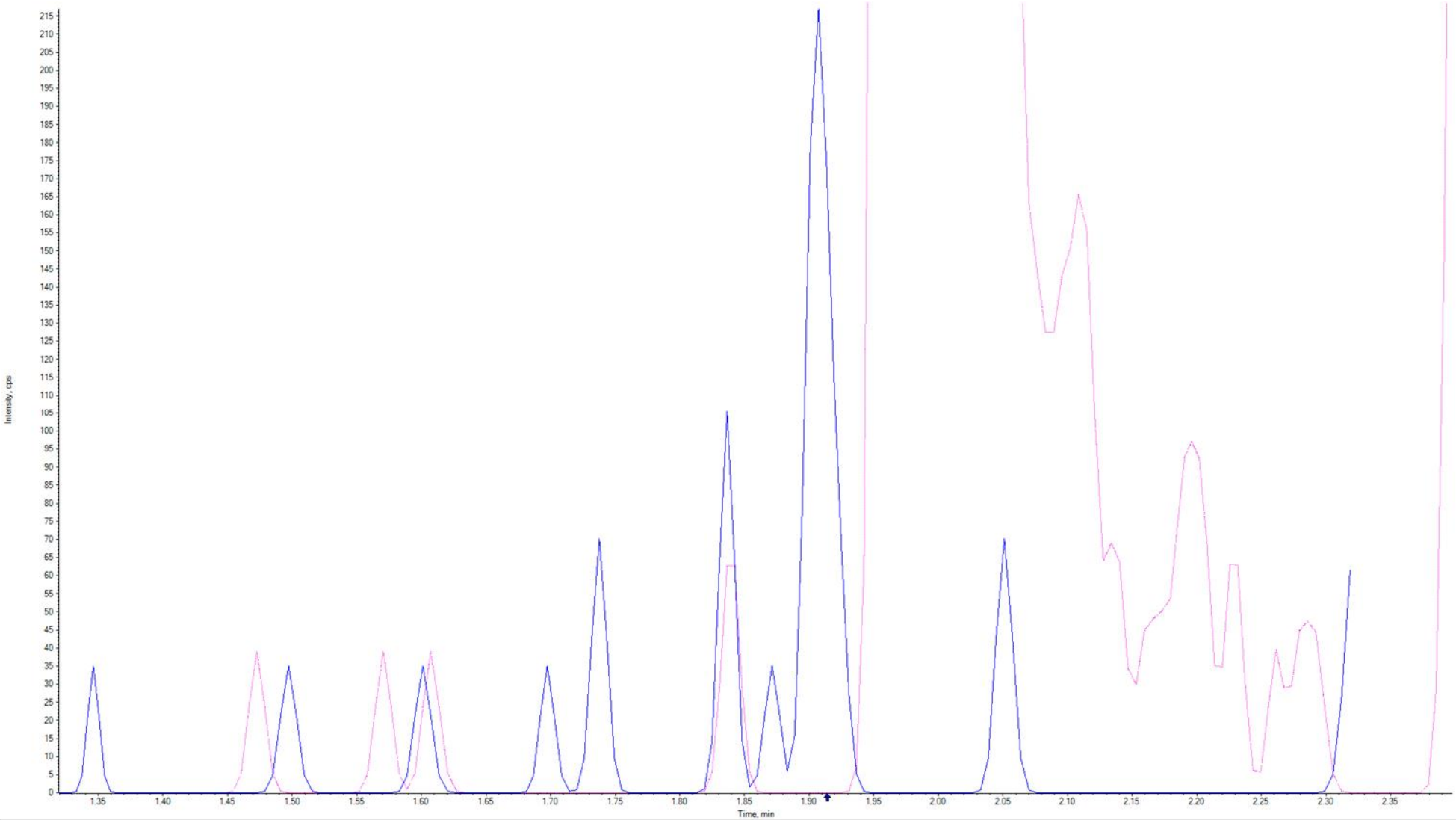
NFDHA
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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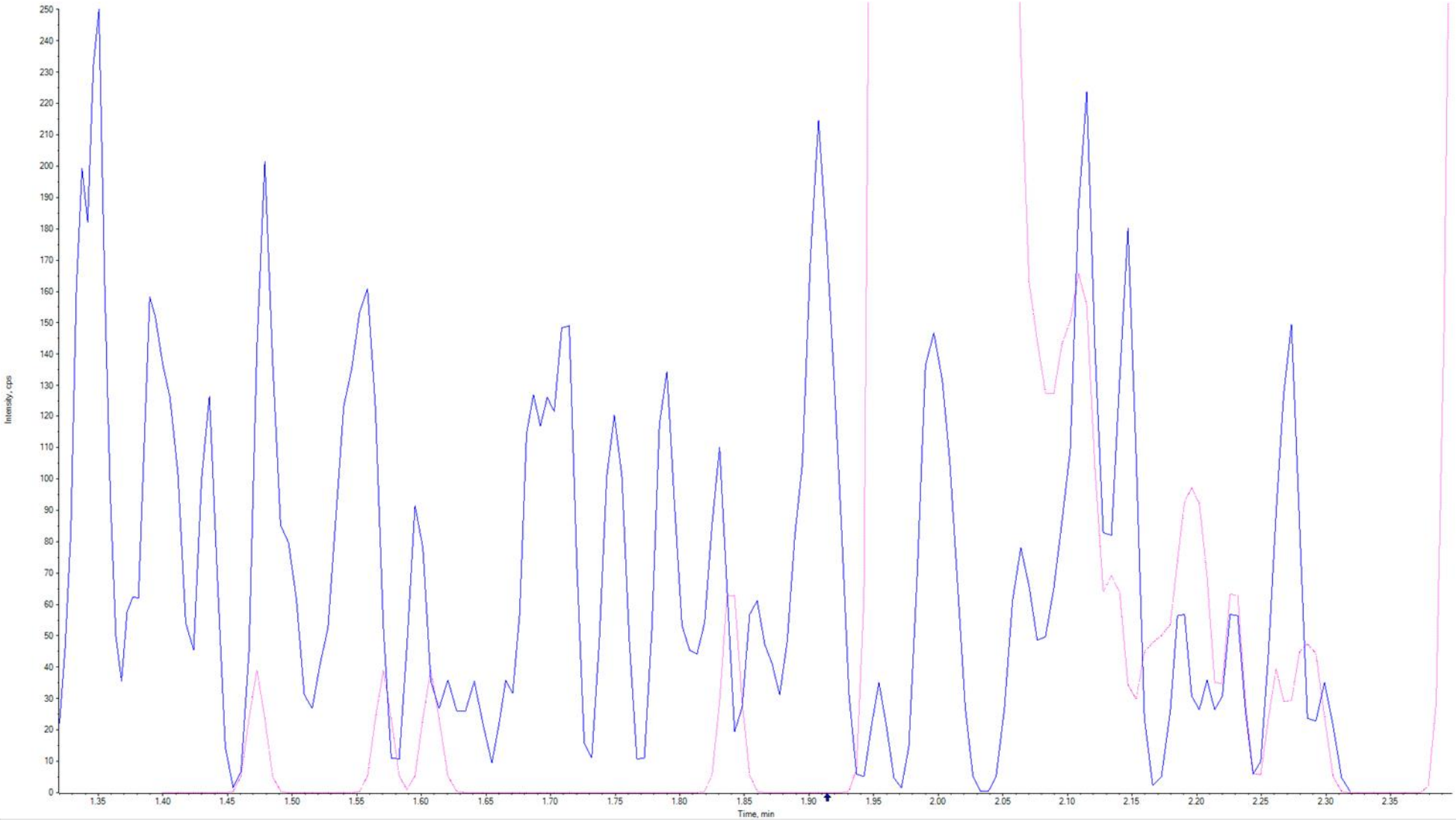
NFDHA_2
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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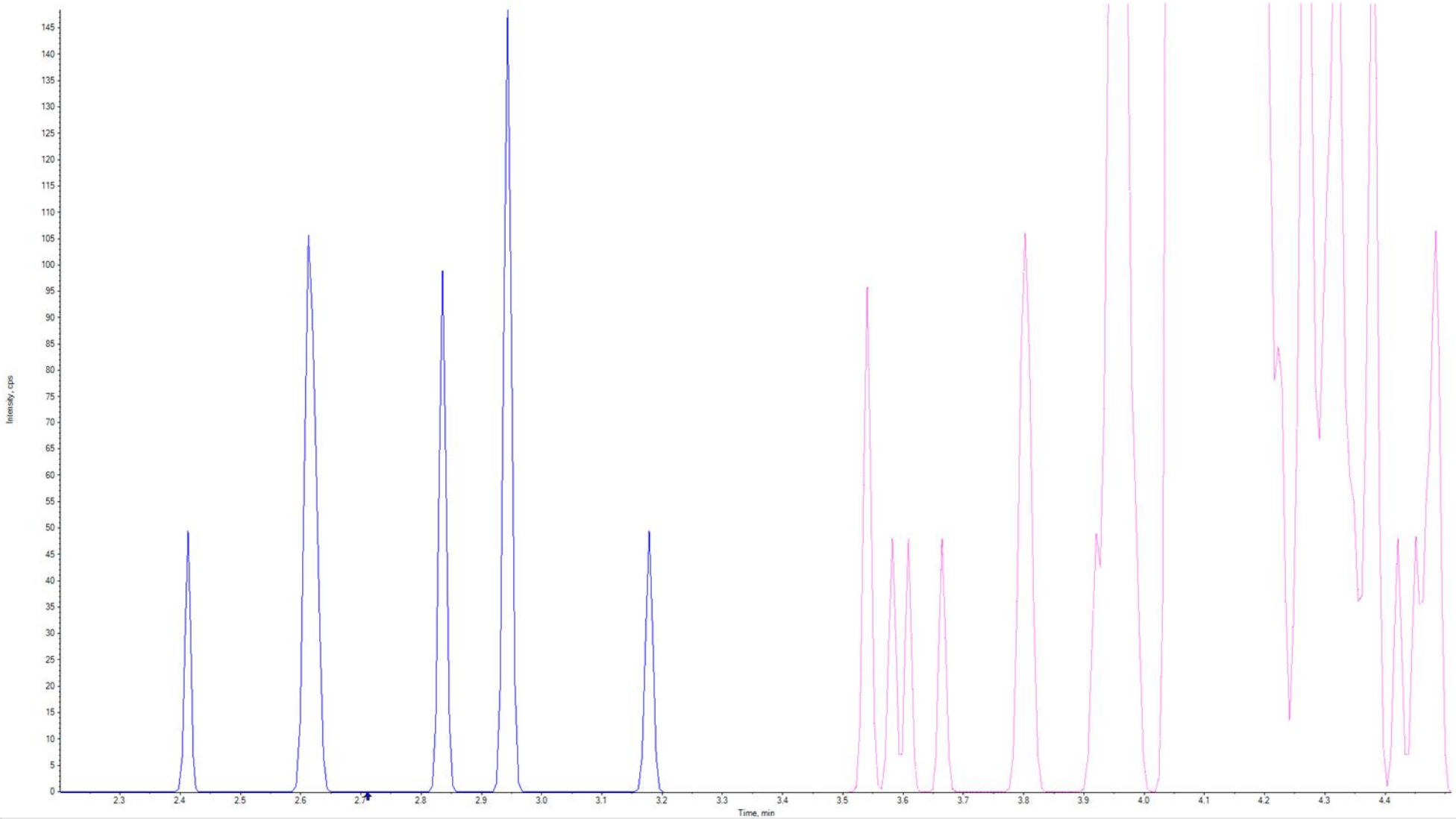
TDCA
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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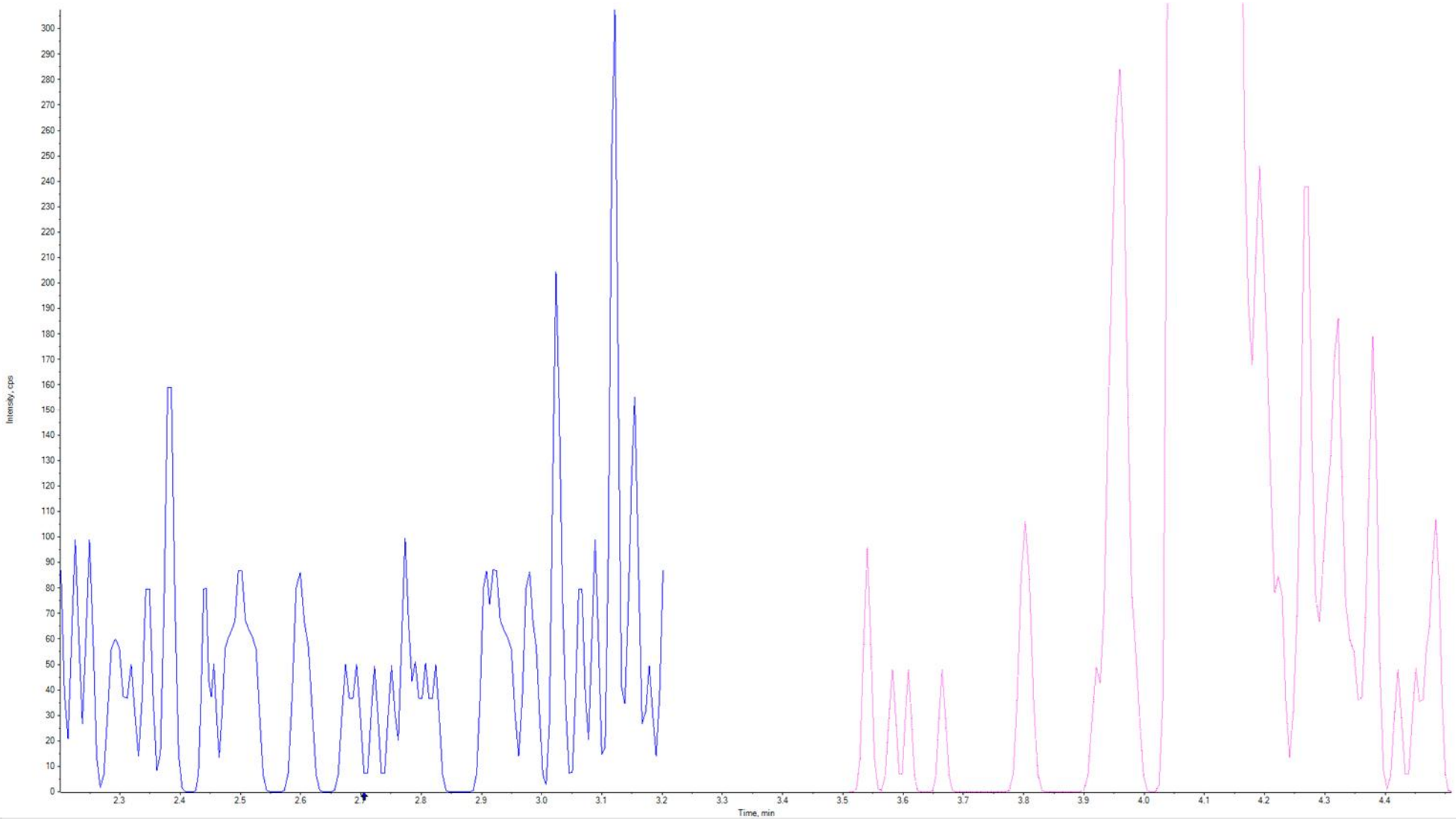
TDCA_2
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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13C2D4-4:2FTS
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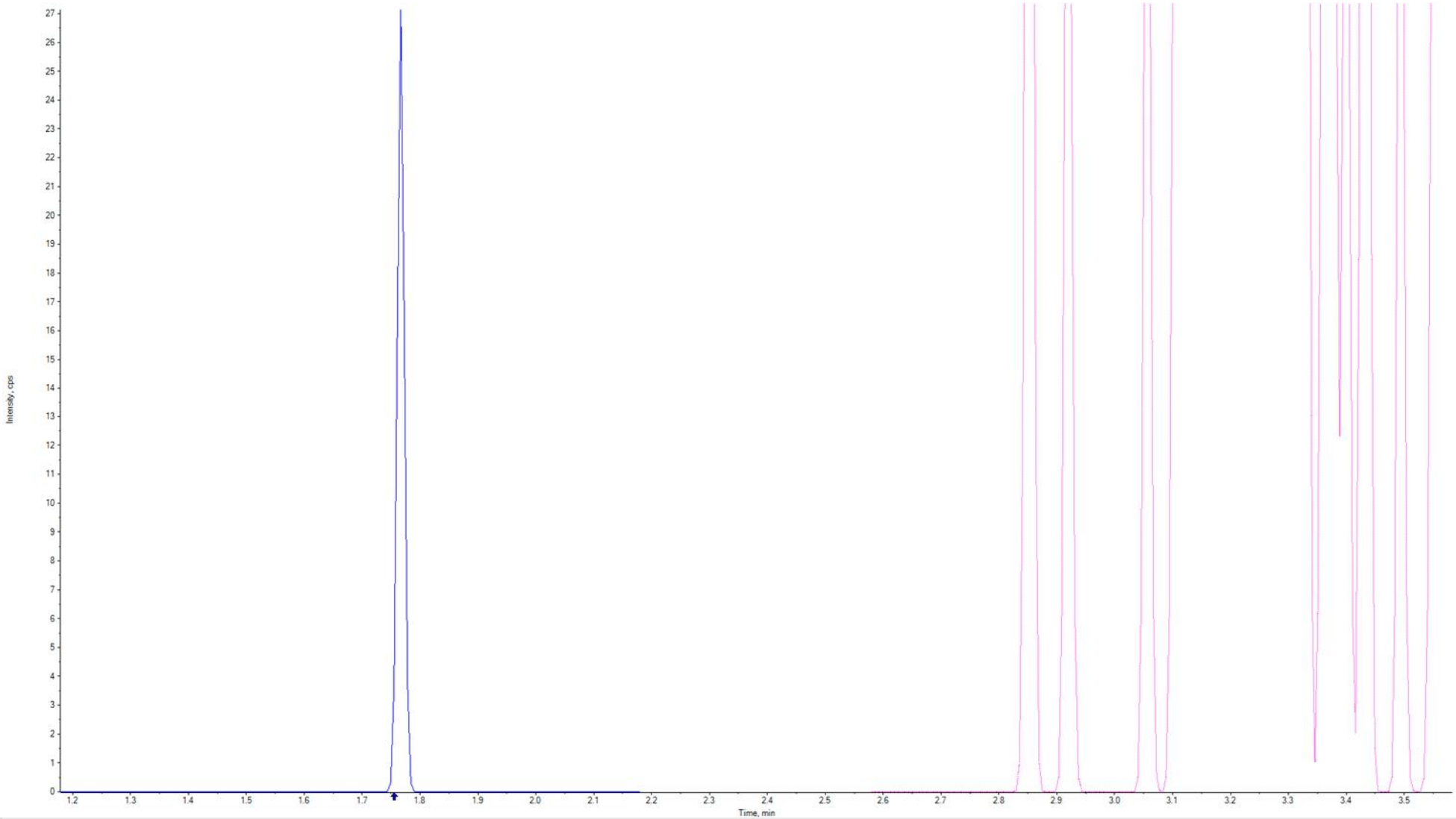

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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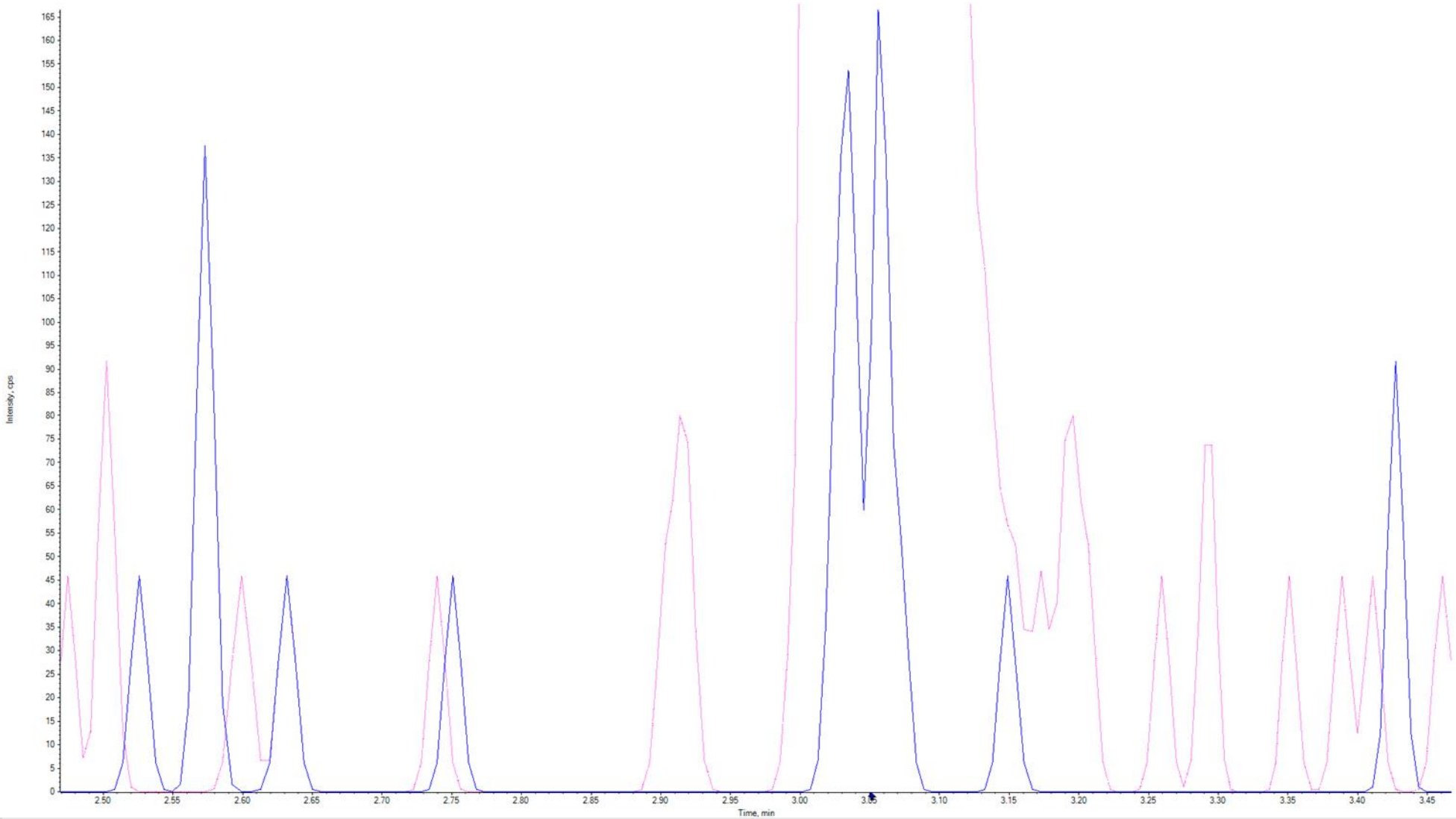
13C2-PFOA
Sample: L2470744-09 S/N:N/A Points Across peak:N/A



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13C4-PFBA
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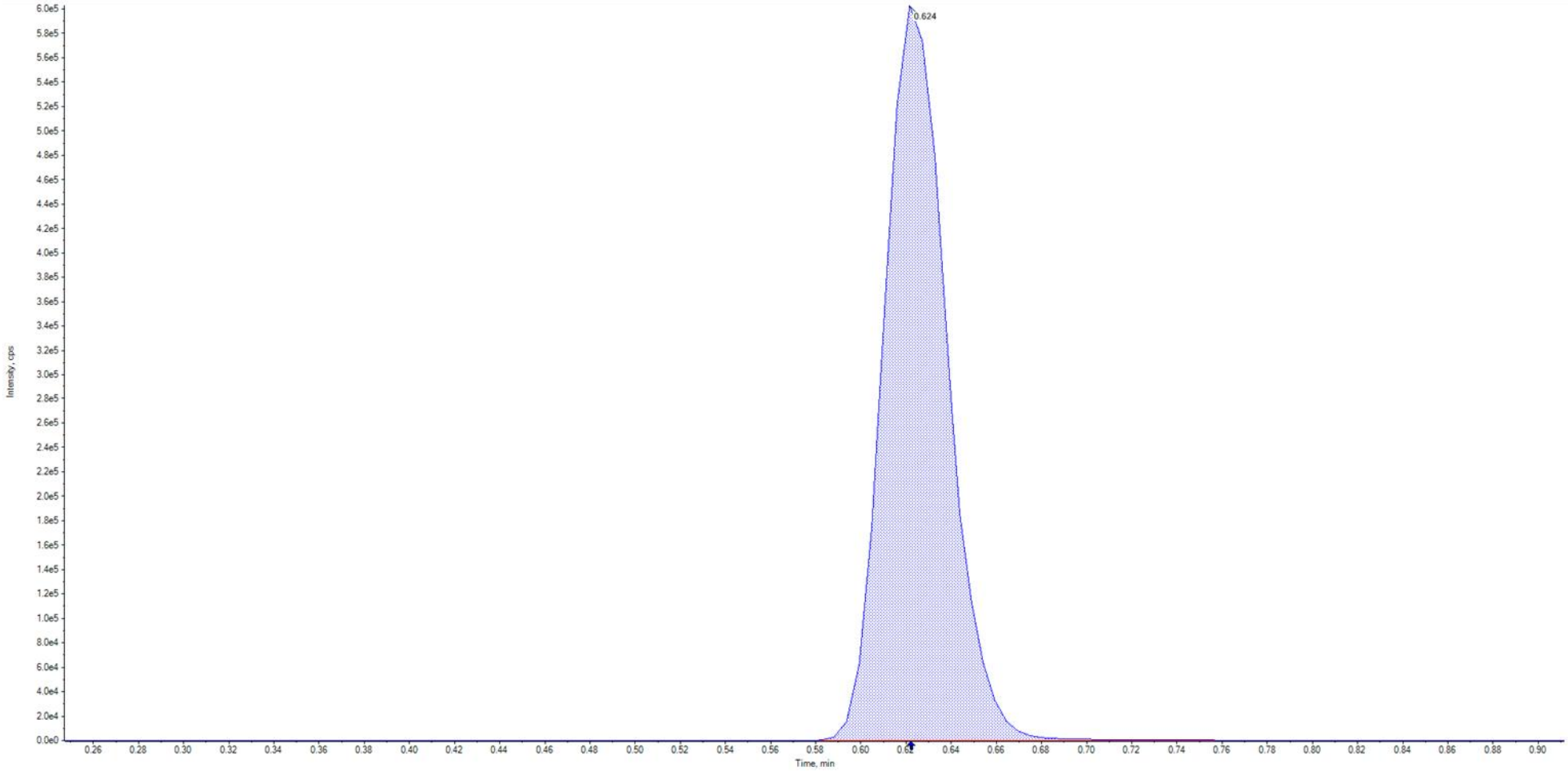

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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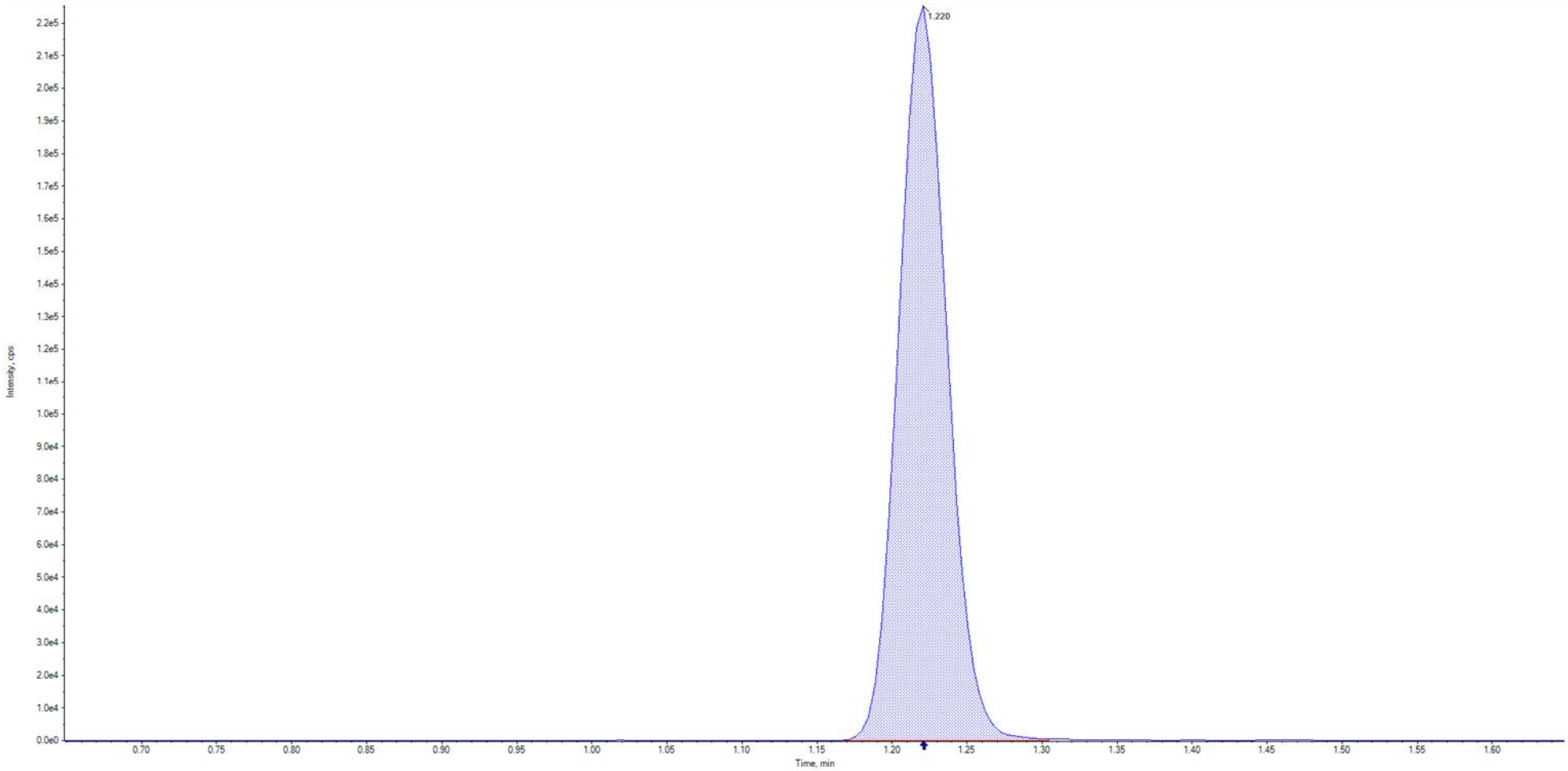
13C5-PFPeA
Sample: L2470744-09



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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13C5-PFHxA
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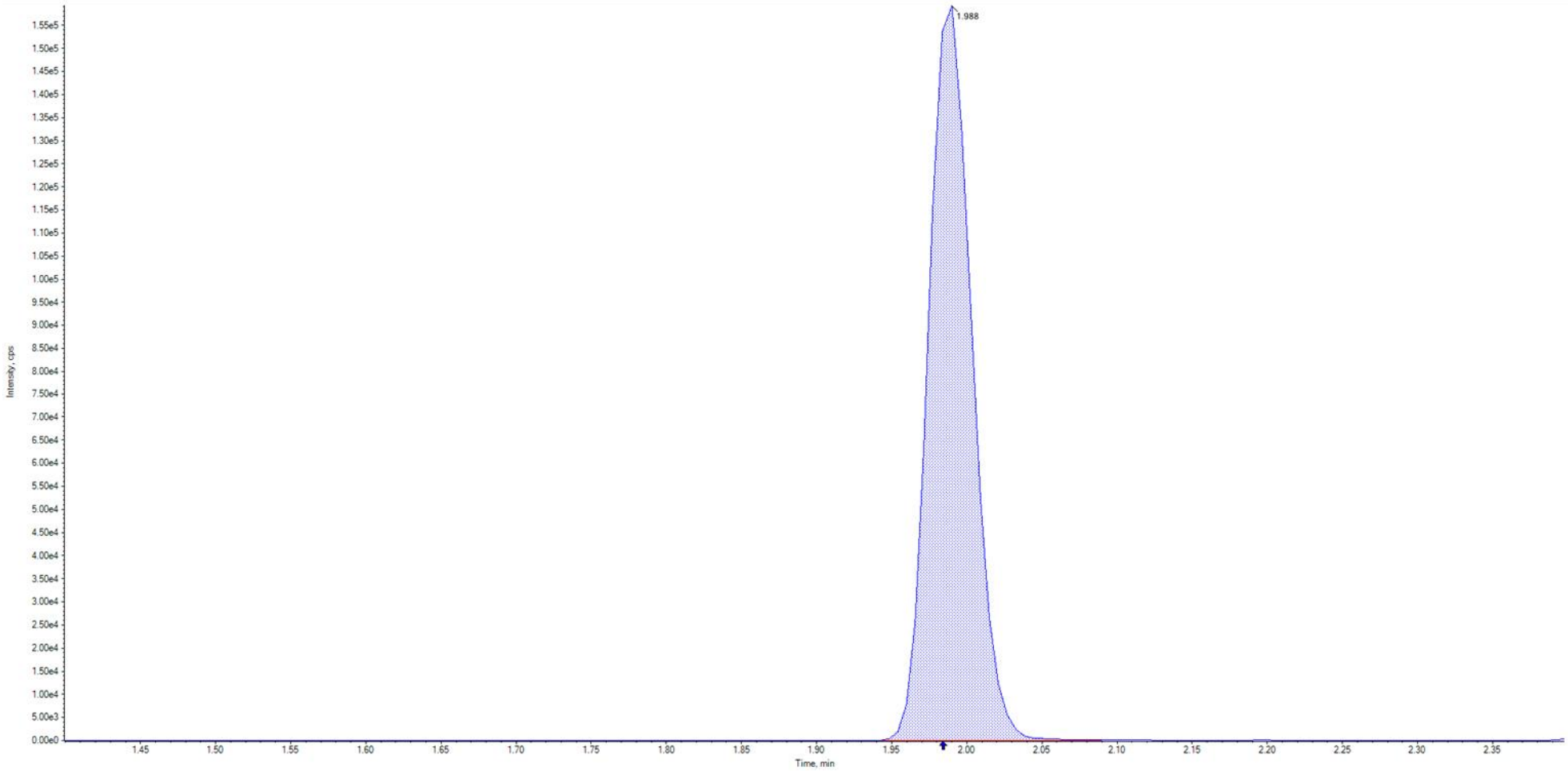

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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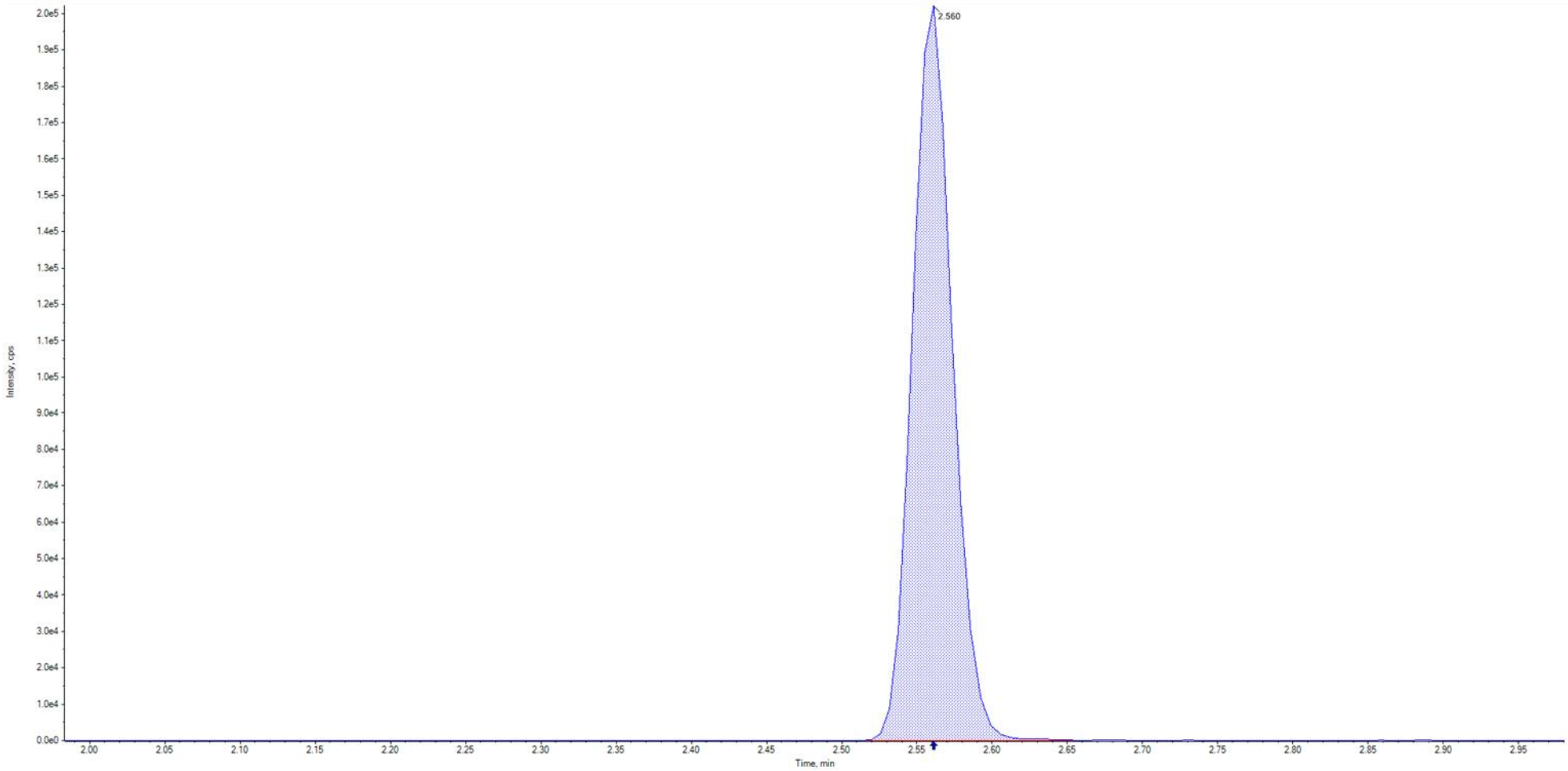
13C4-PFHpA
Sample: L2470744-09



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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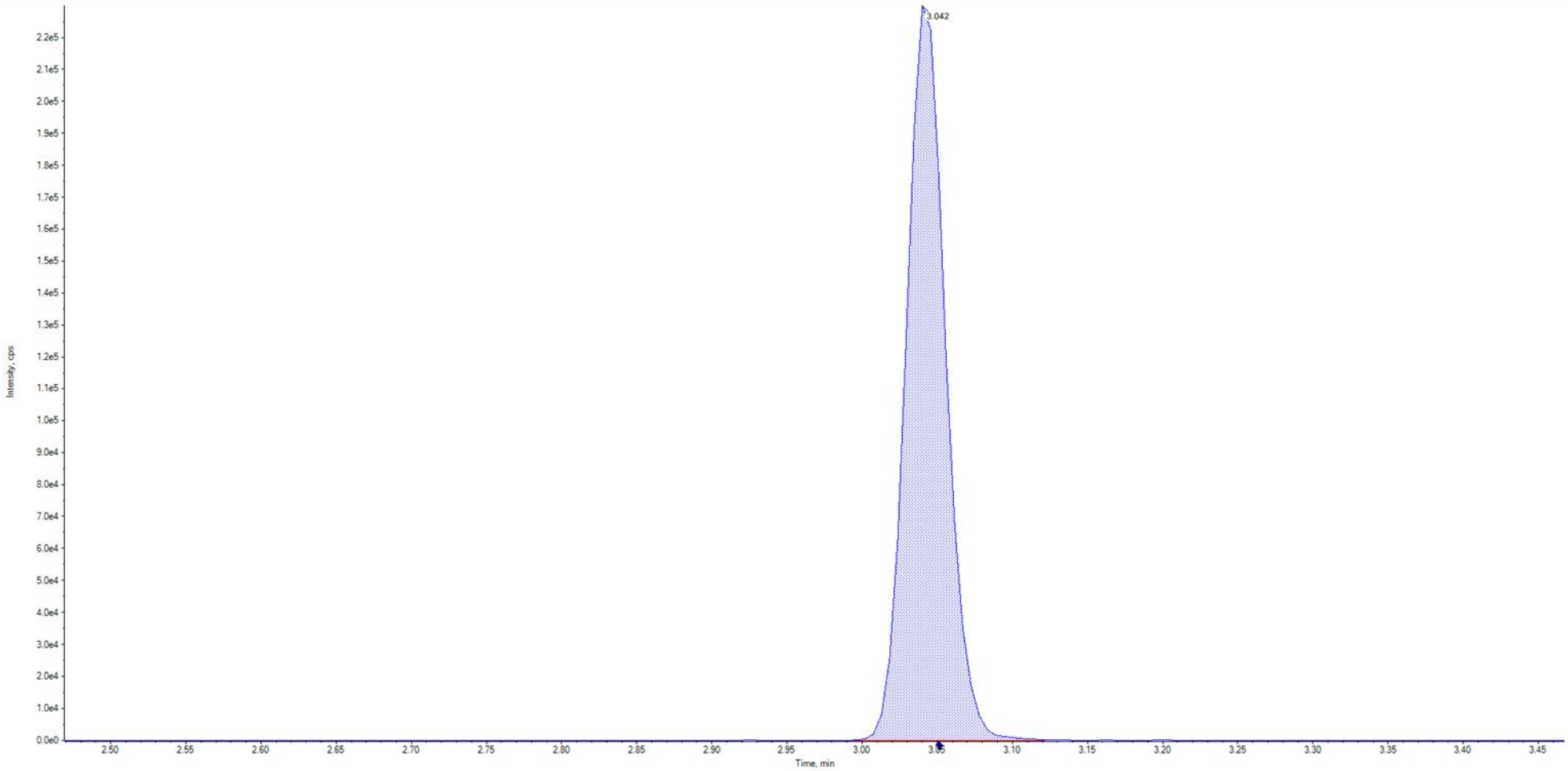
Generated: 12/20/2024 10:43:43 AM

13C8-PFOA
Sample: L2470744-09



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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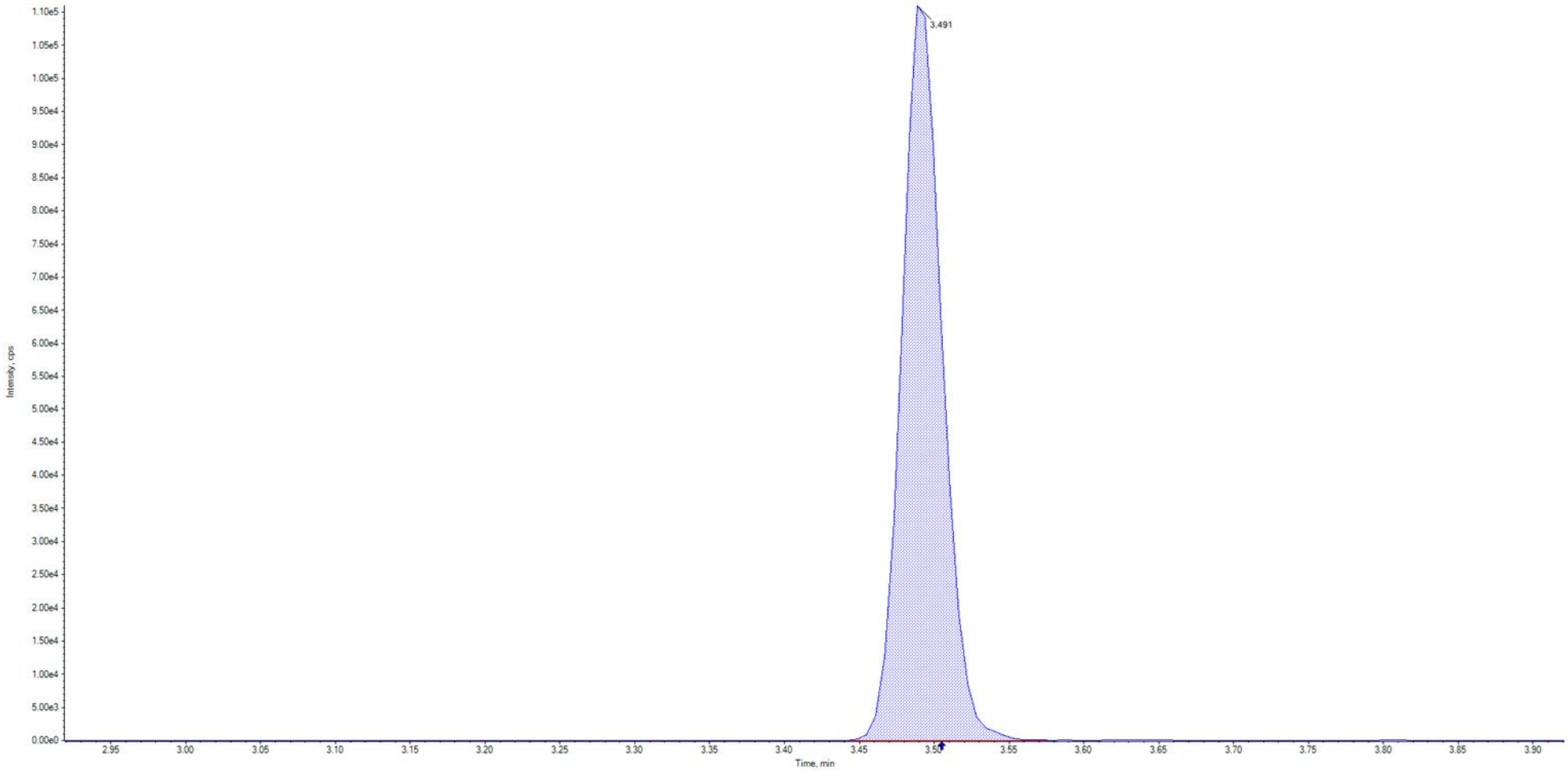
Generated: 12/20/2024 10:43:43 AM

13C9-PFNA
Sample: L2470744-09



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Generated: 12/20/2024 10:43:43 AM

13C6-PFDA
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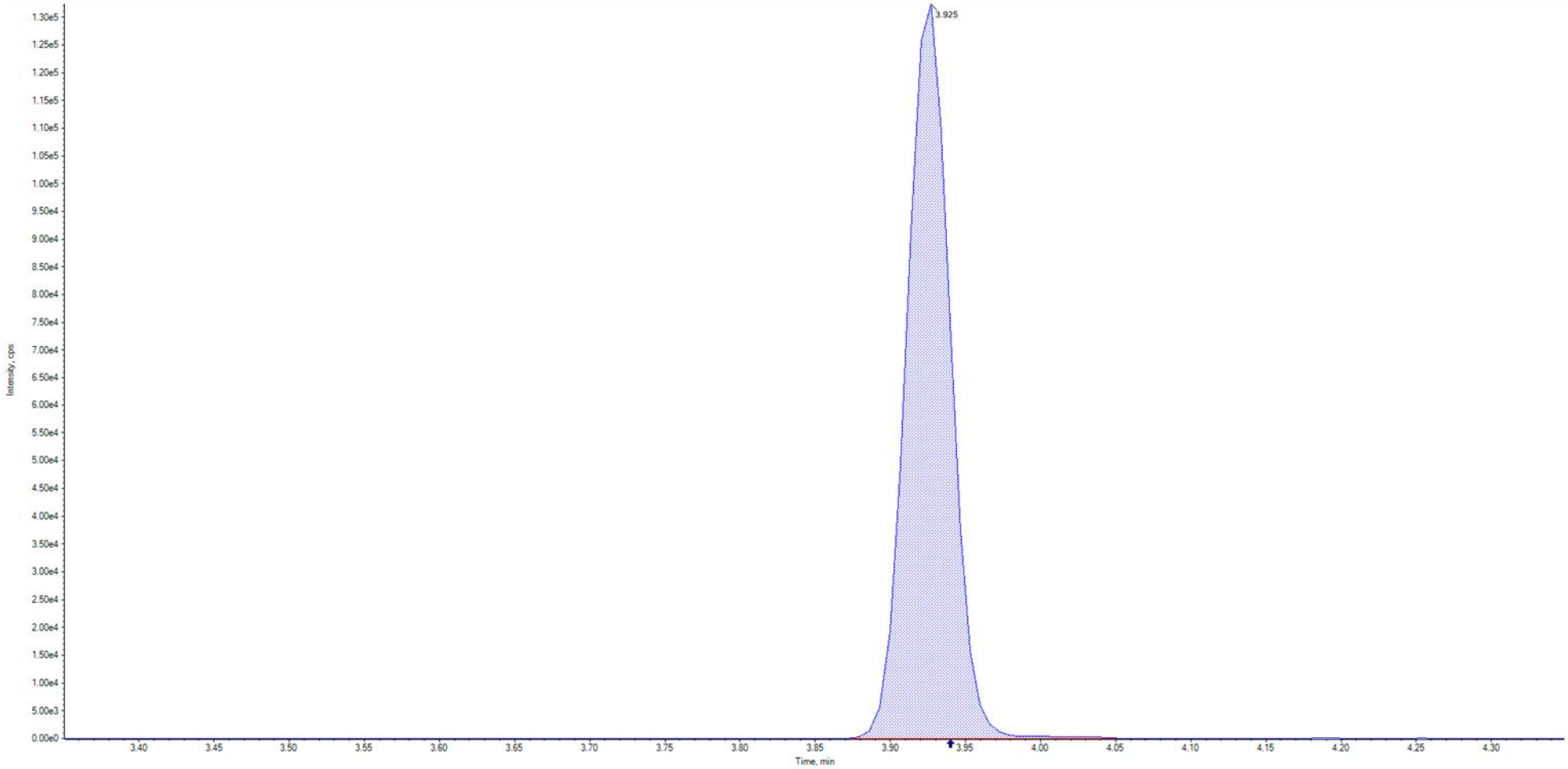

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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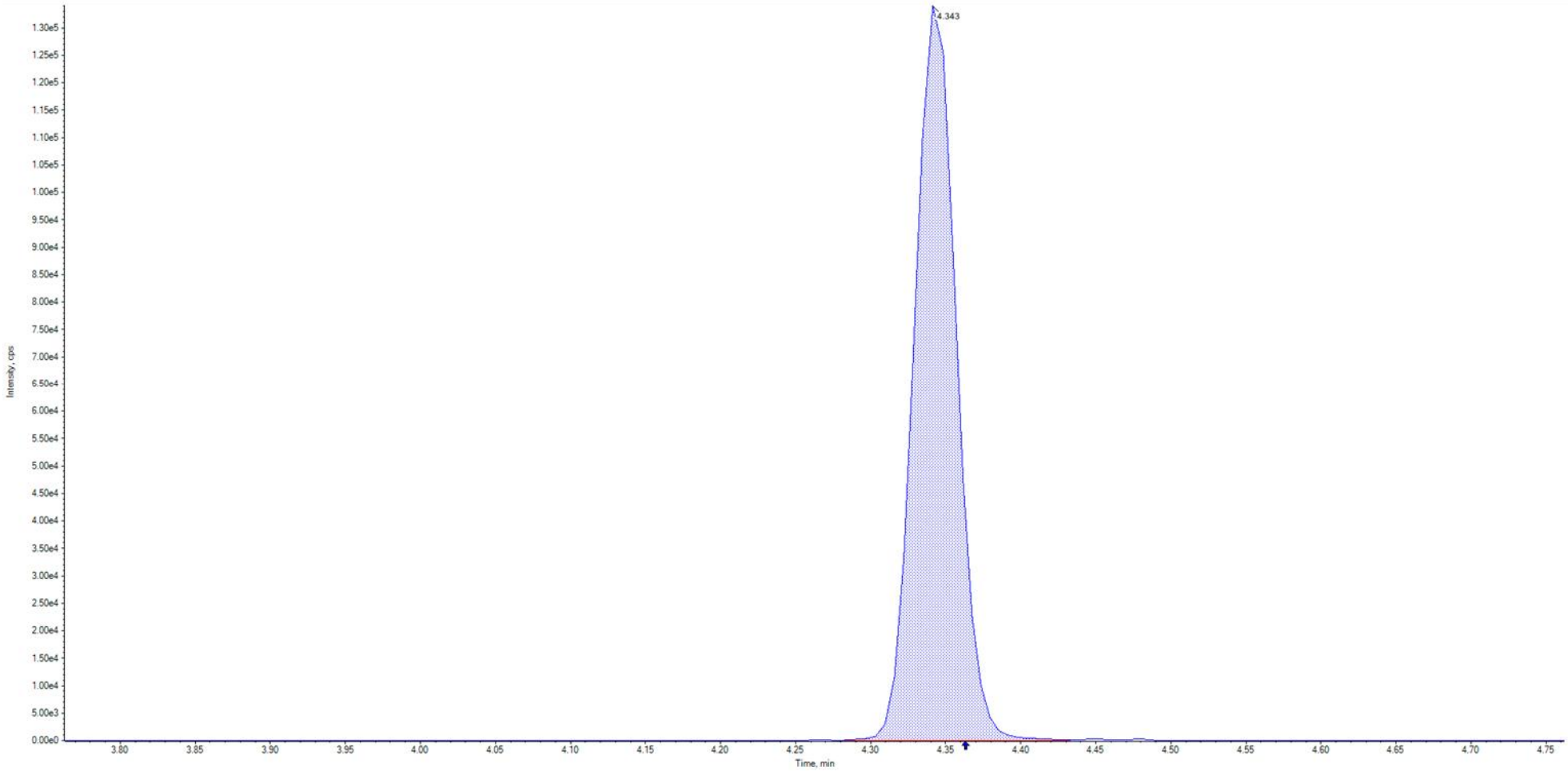
Generated: 12/20/2024 10:43:43 AM

13C7-PFUnA
Sample: L2470744-09



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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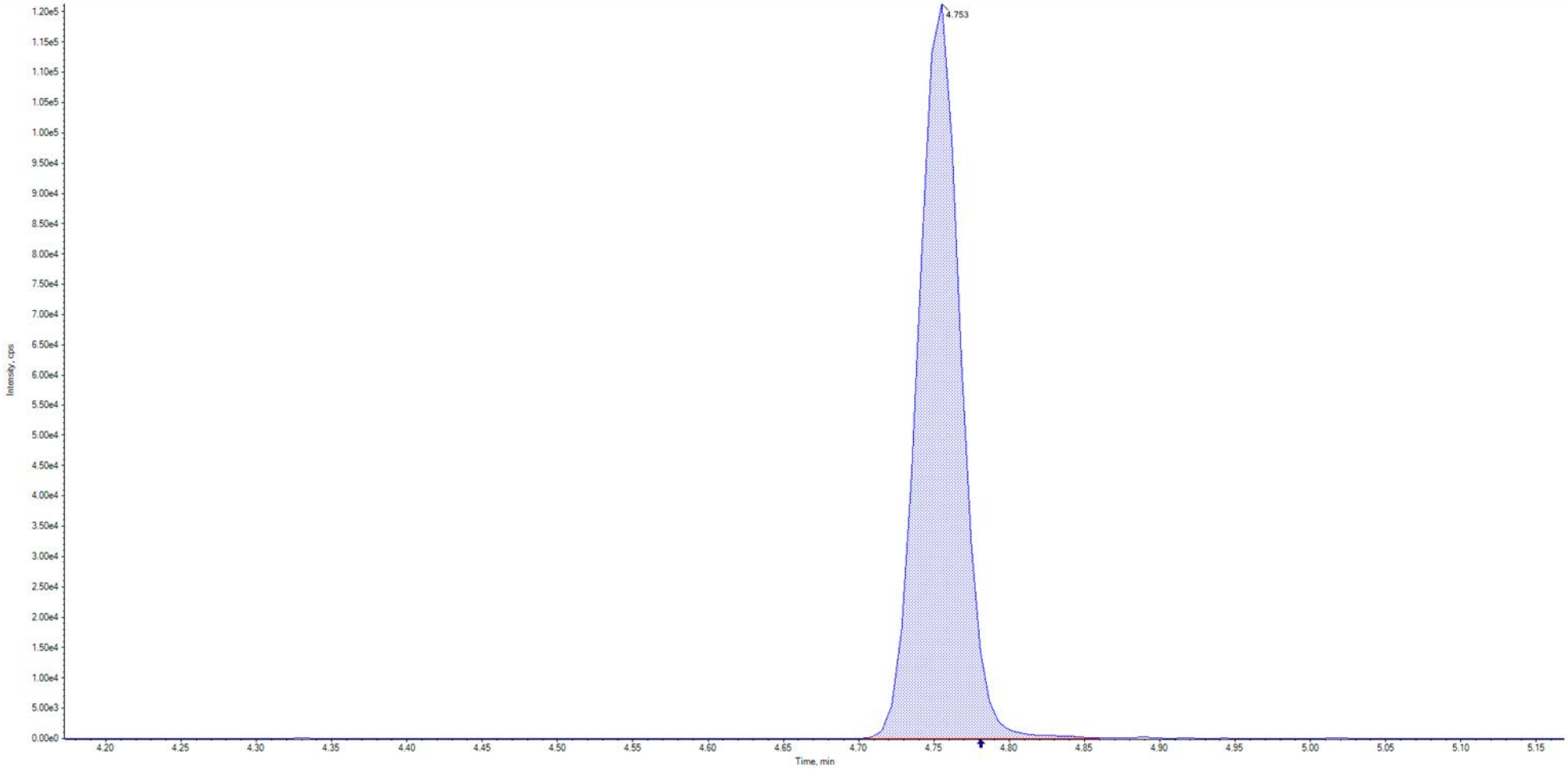
13C2-PFDoA
Sample: L2470744-09



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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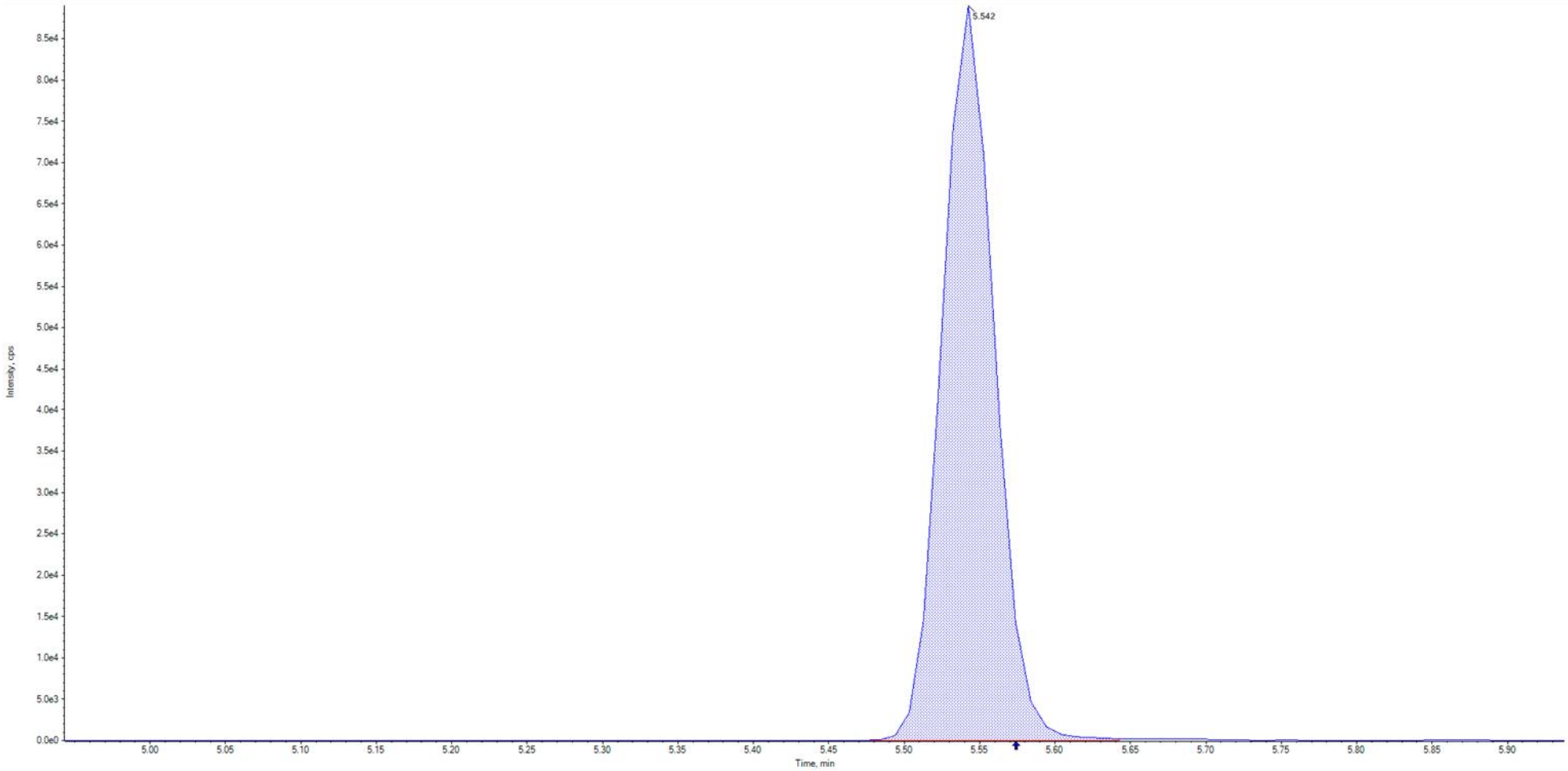
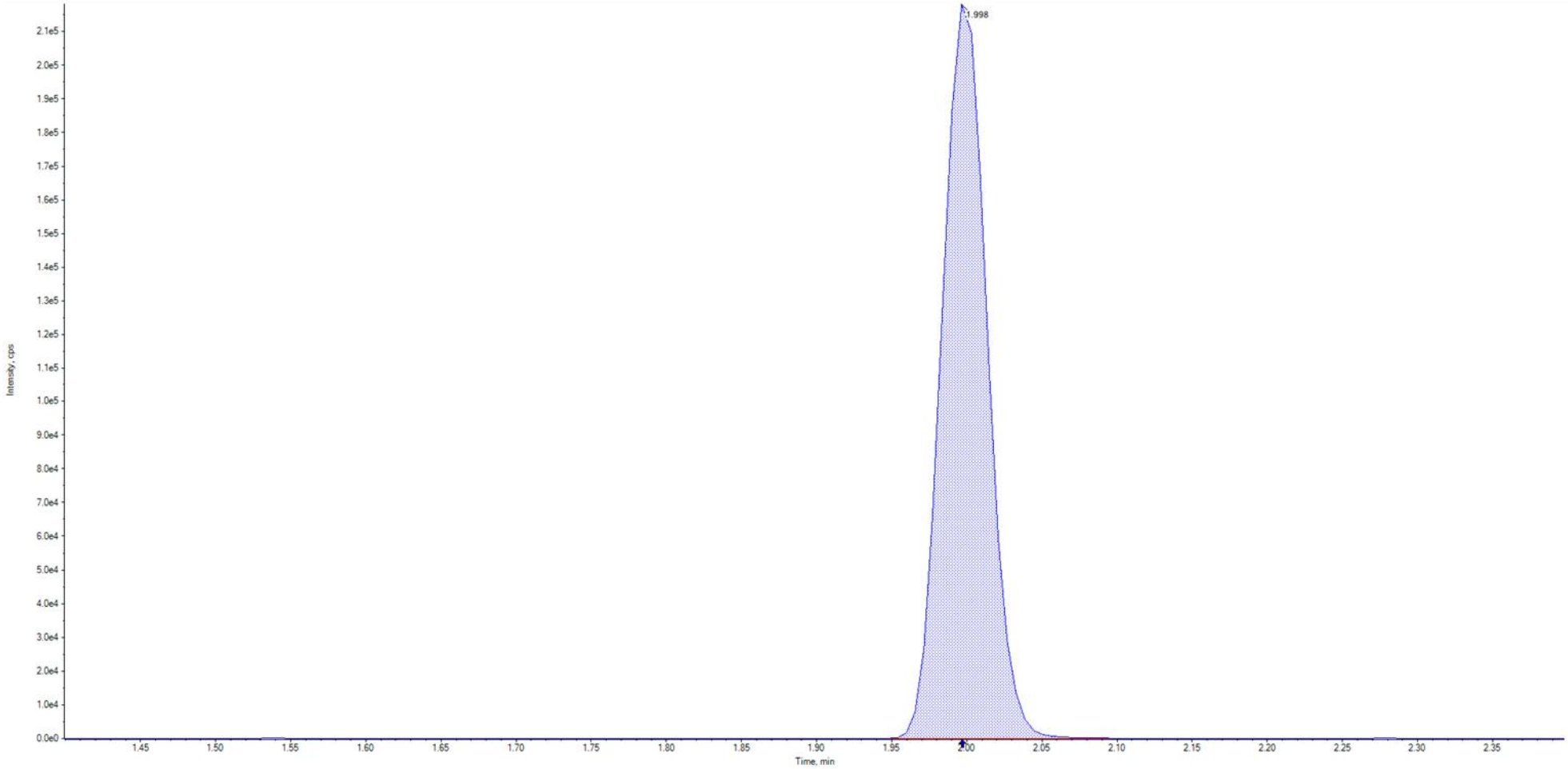
Generated: 12/20/2024 10:43:43 AM

13C2-PFTeDA
Sample: L2470744-09



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_39.wiff2_6
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

13C3-PFBS
Sample: L2470744-09



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_39.wiff2_6
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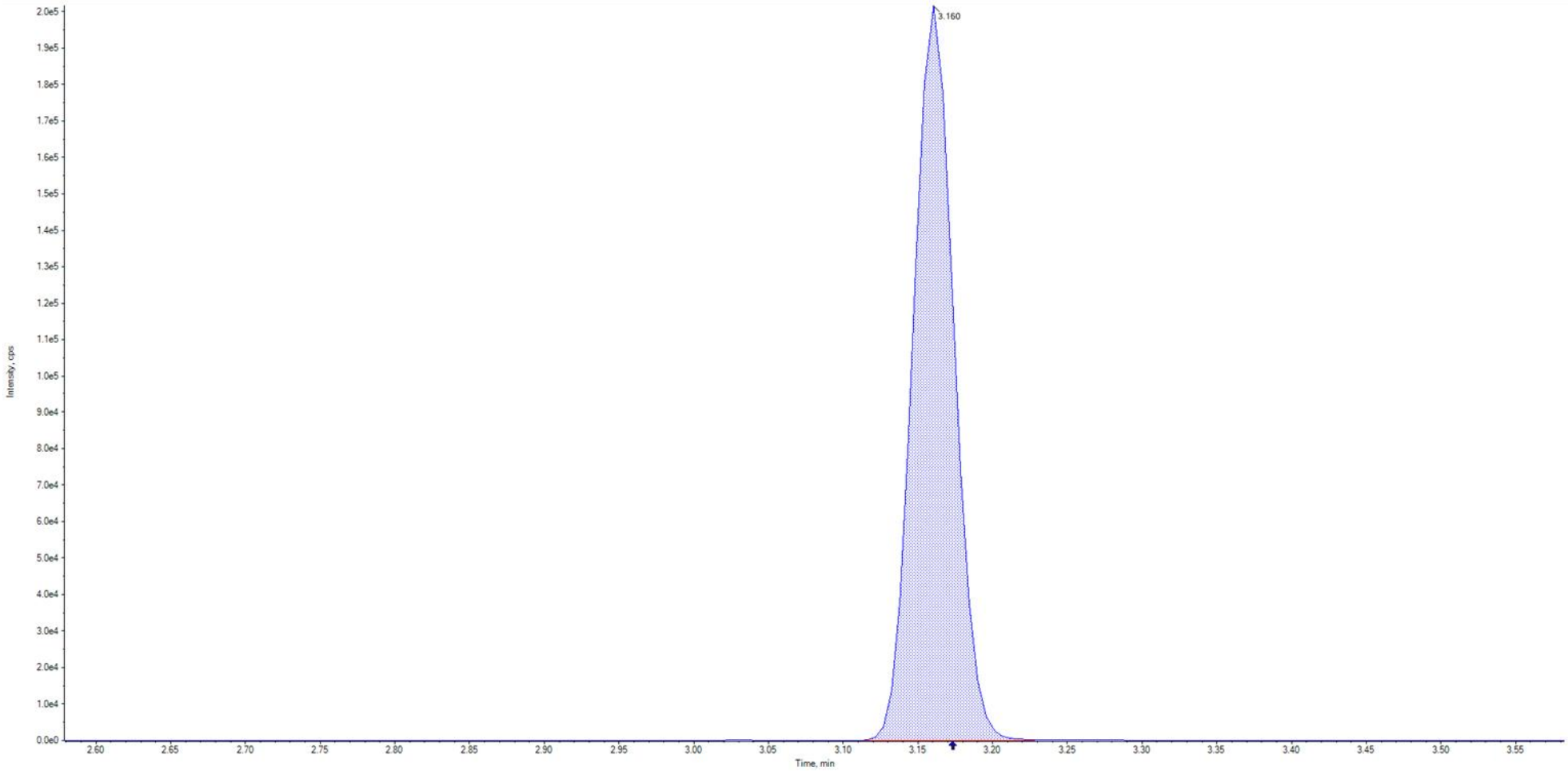
13C3-PFHxS
Sample: L2470744-09



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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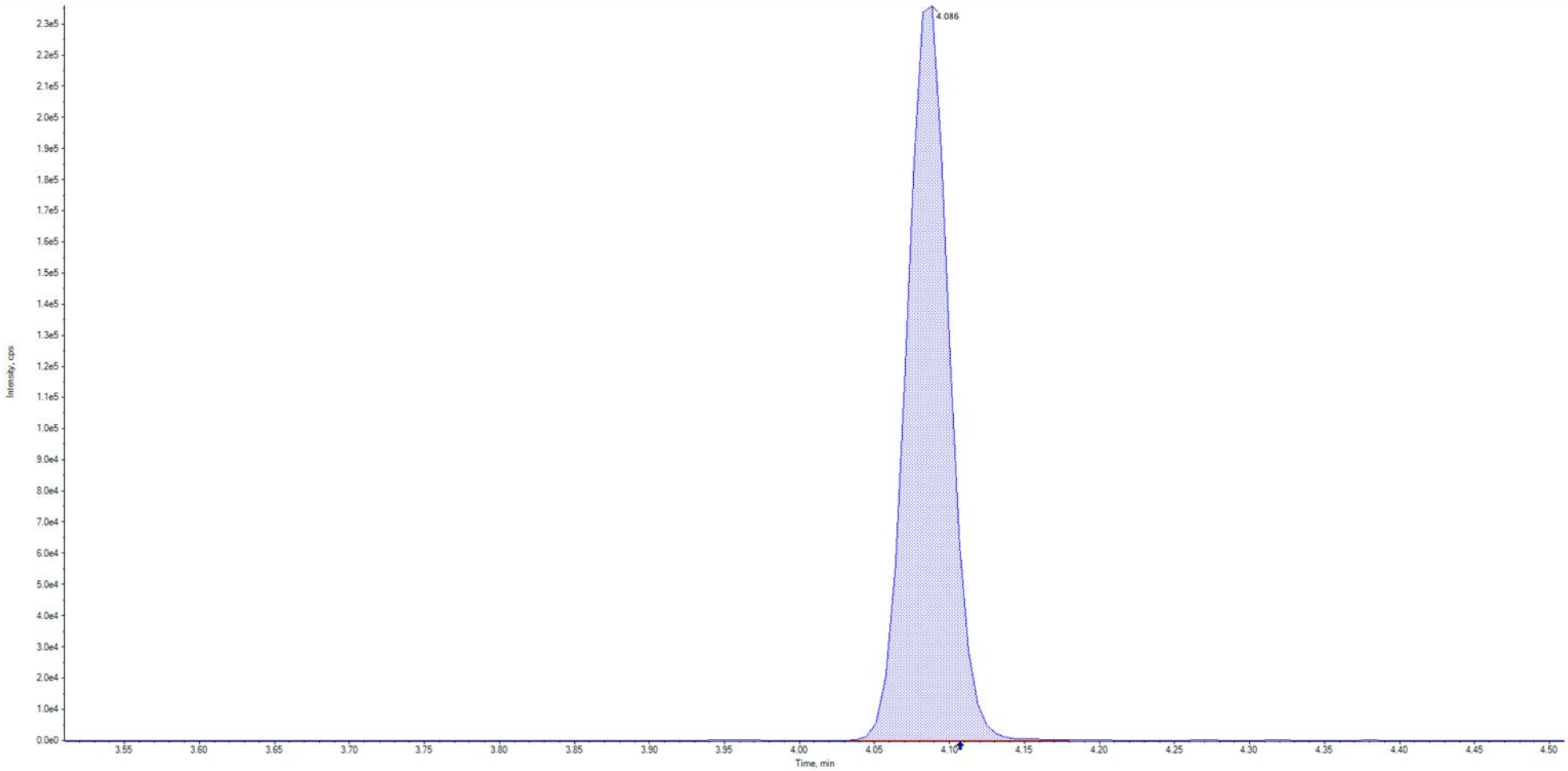
13C8-PFOS
Sample: L2470744-09



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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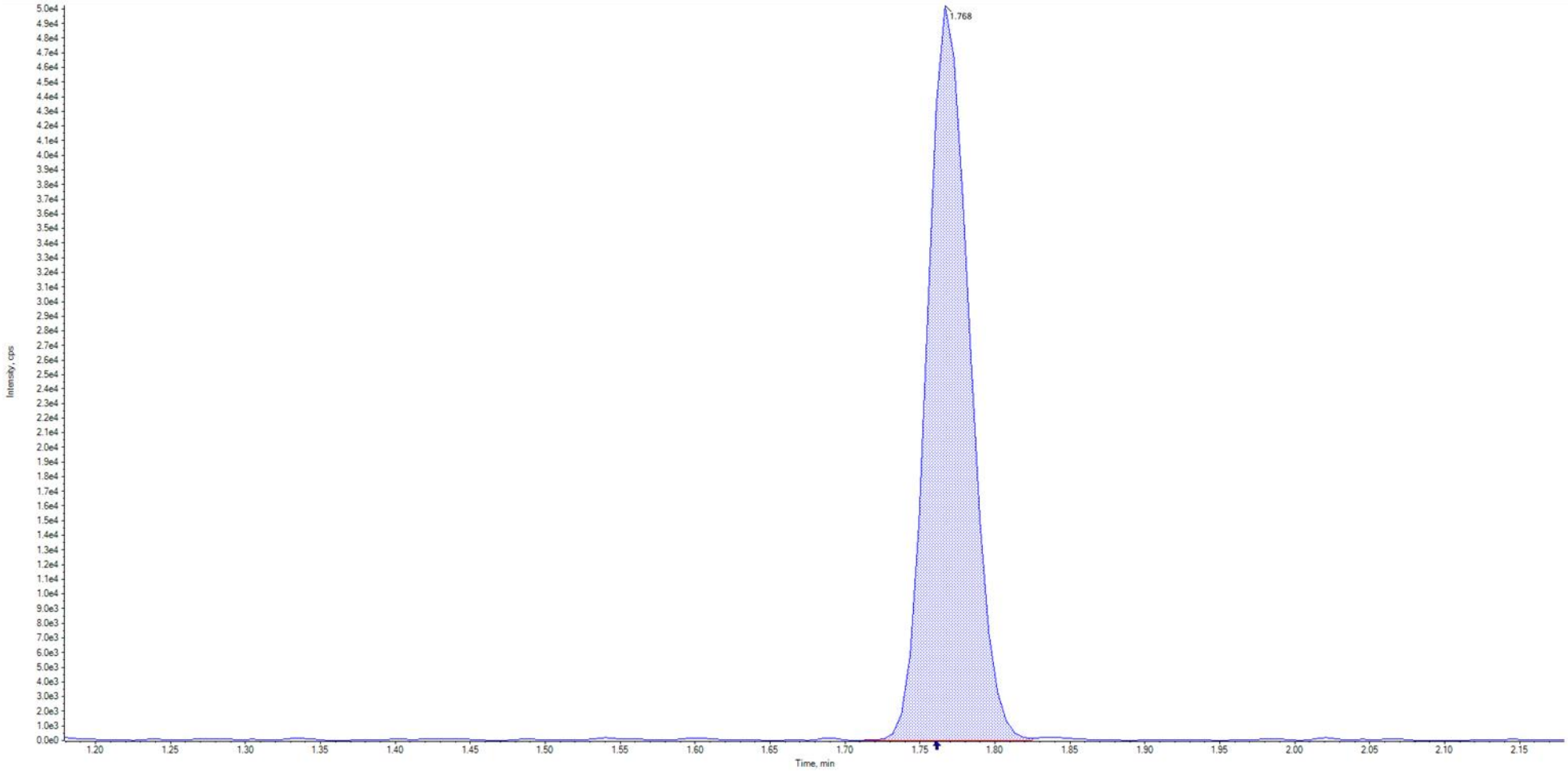
13C2-4:2FTS
Sample: L2470744-09



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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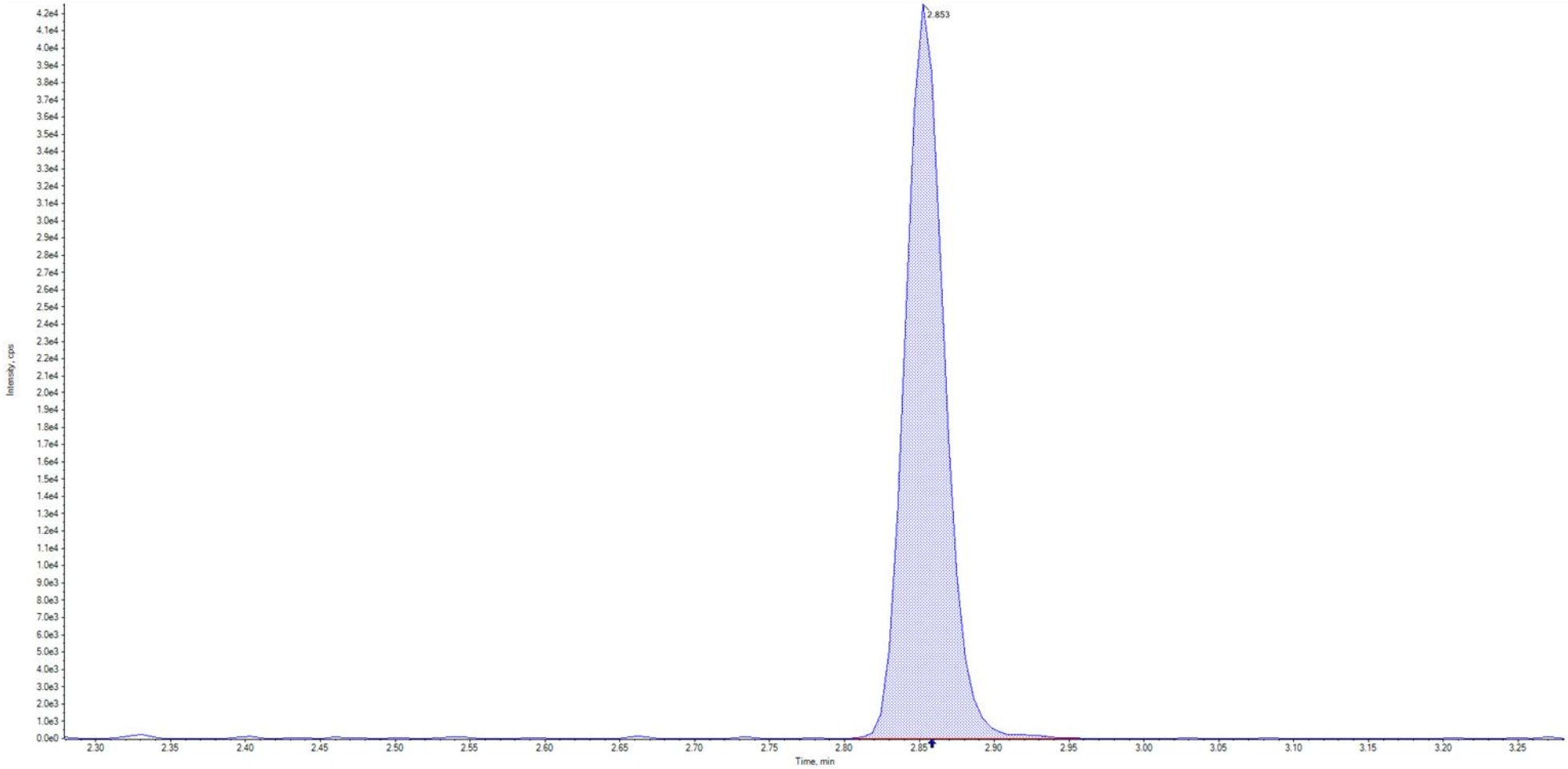
13C2-6:2FTS
Sample: L2470744-09



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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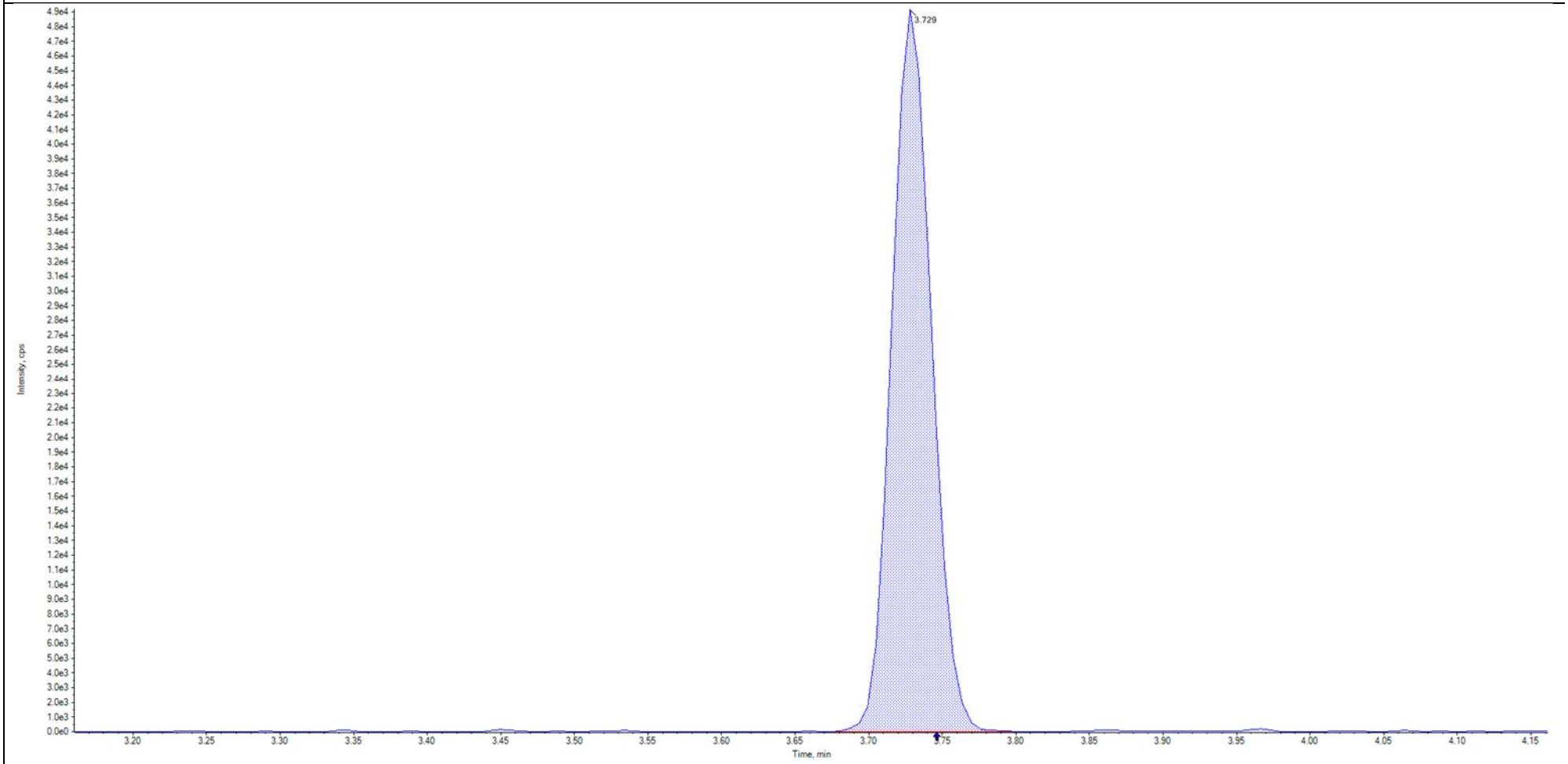
13C2-8:2FTS
Sample: L2470744-09



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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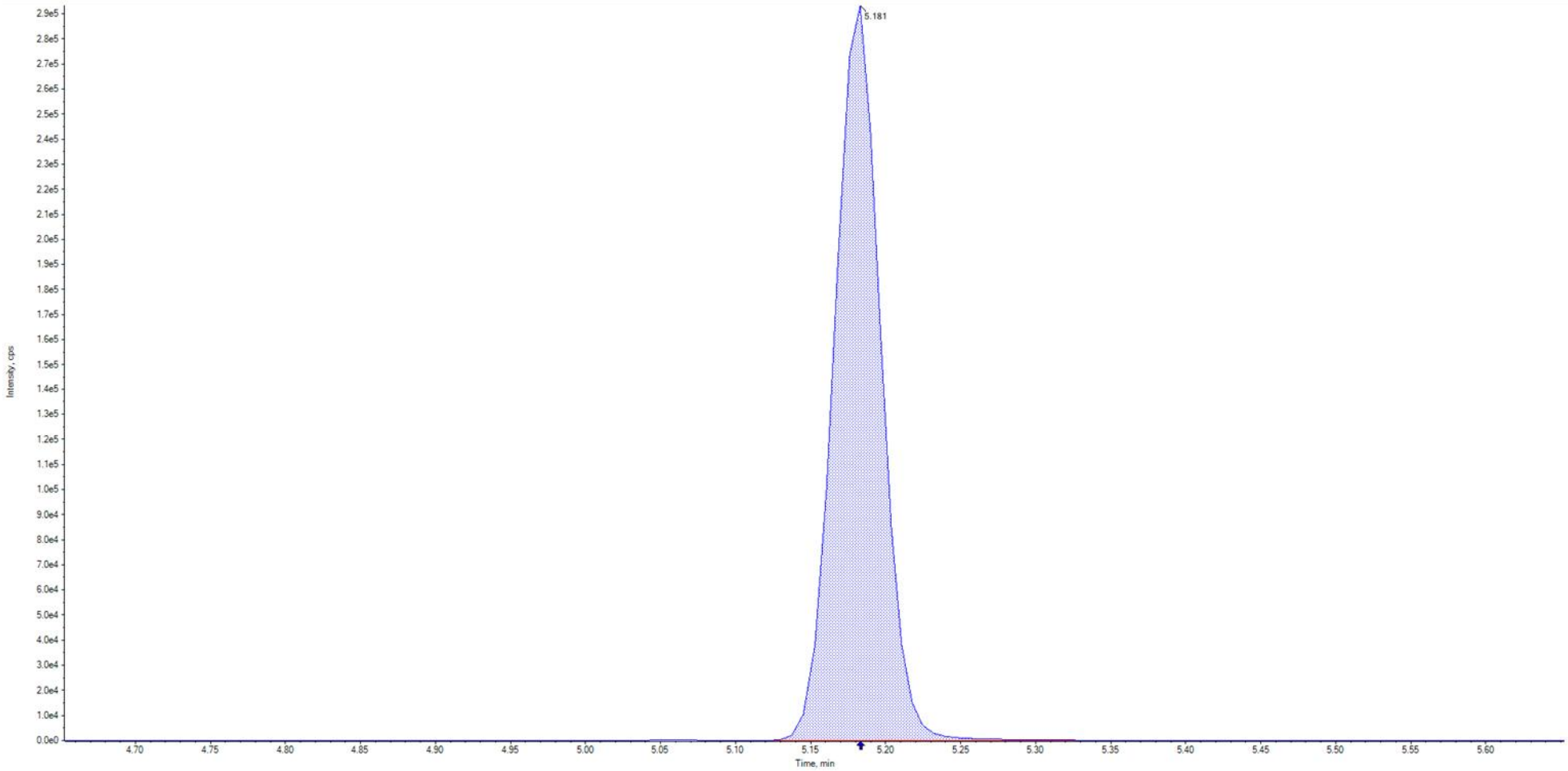
13C8-PFOSA
Sample: L2470744-09



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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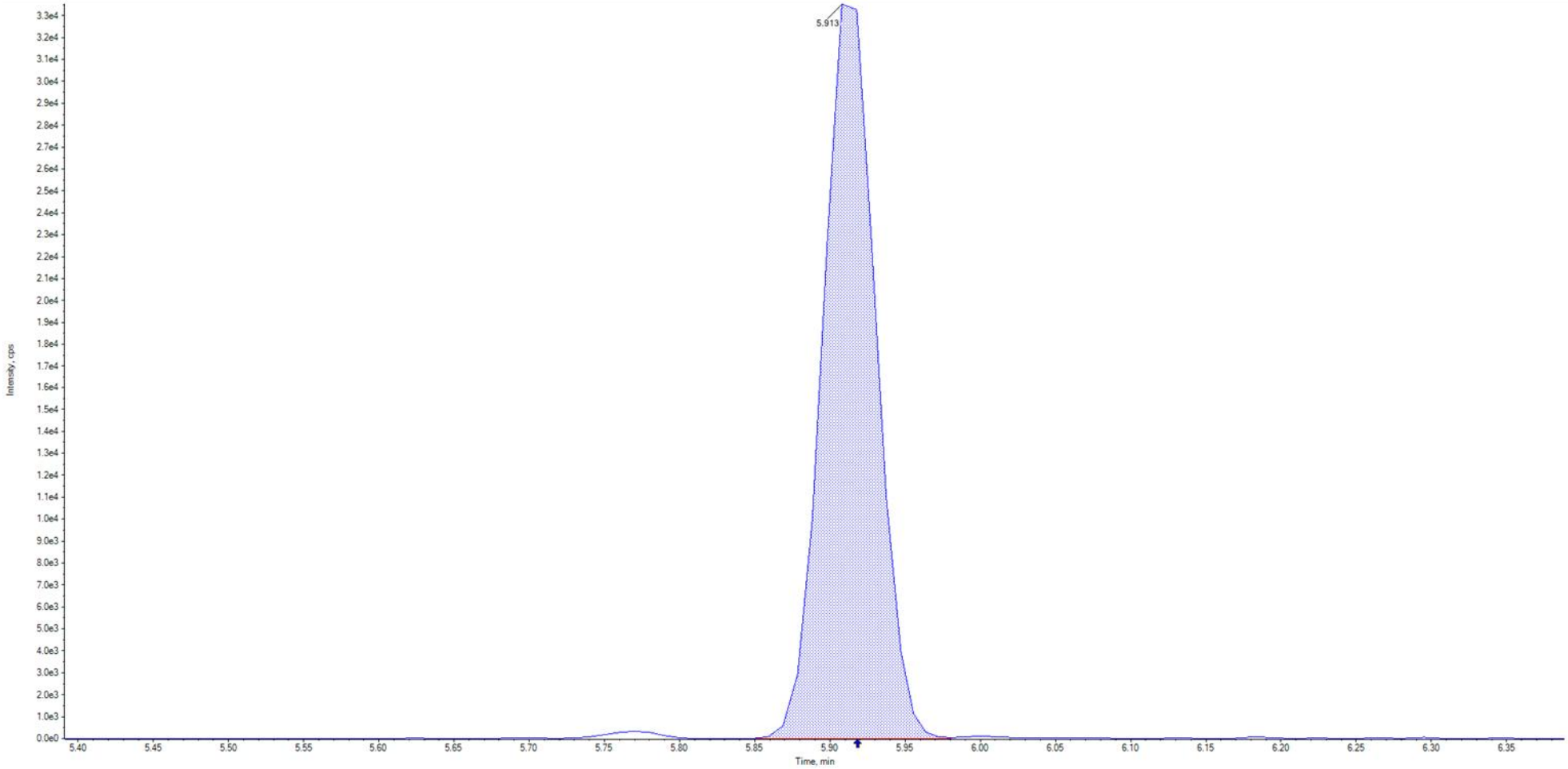
d3-NMeFOSA
Sample: L2470744-09



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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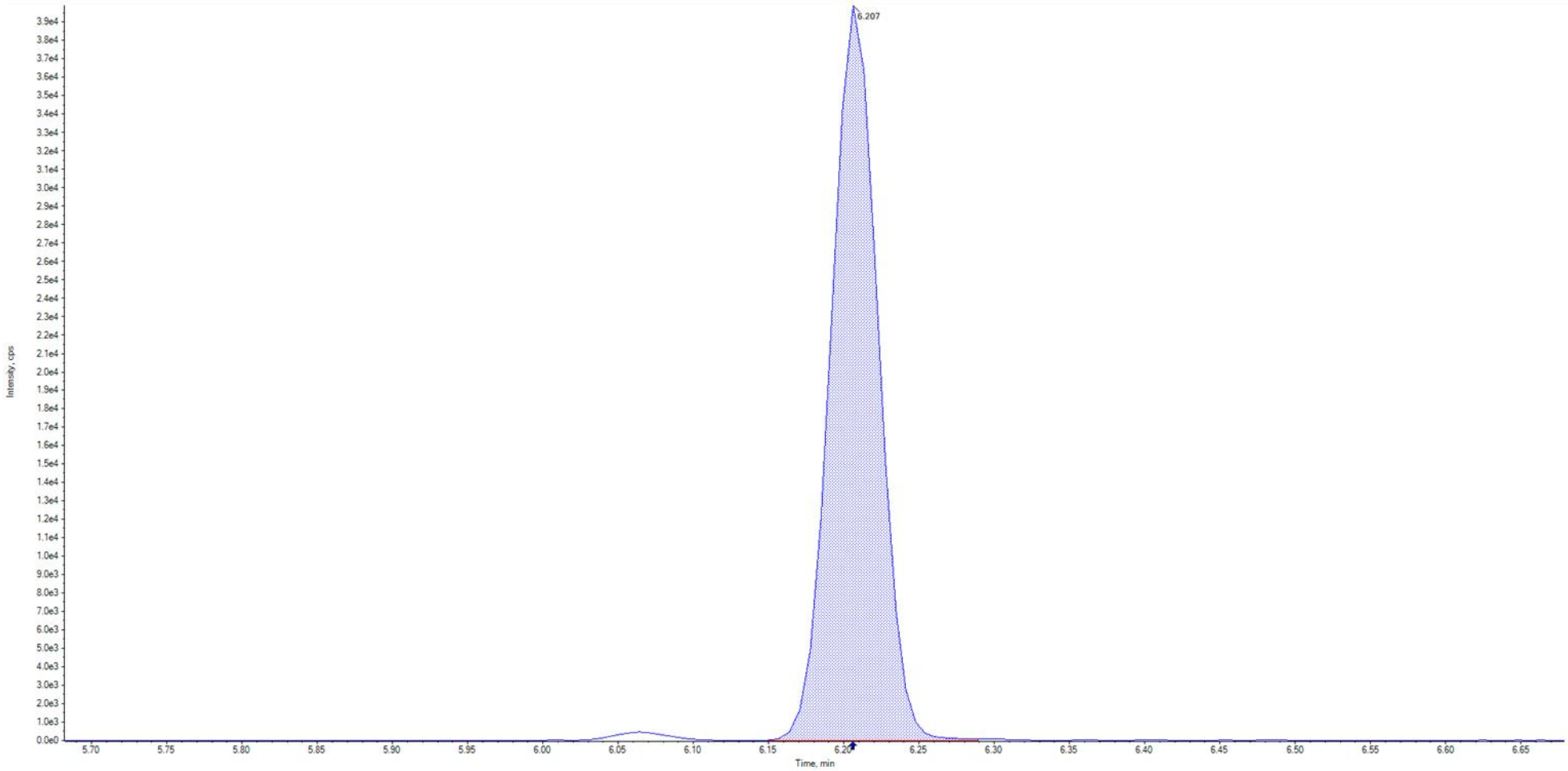
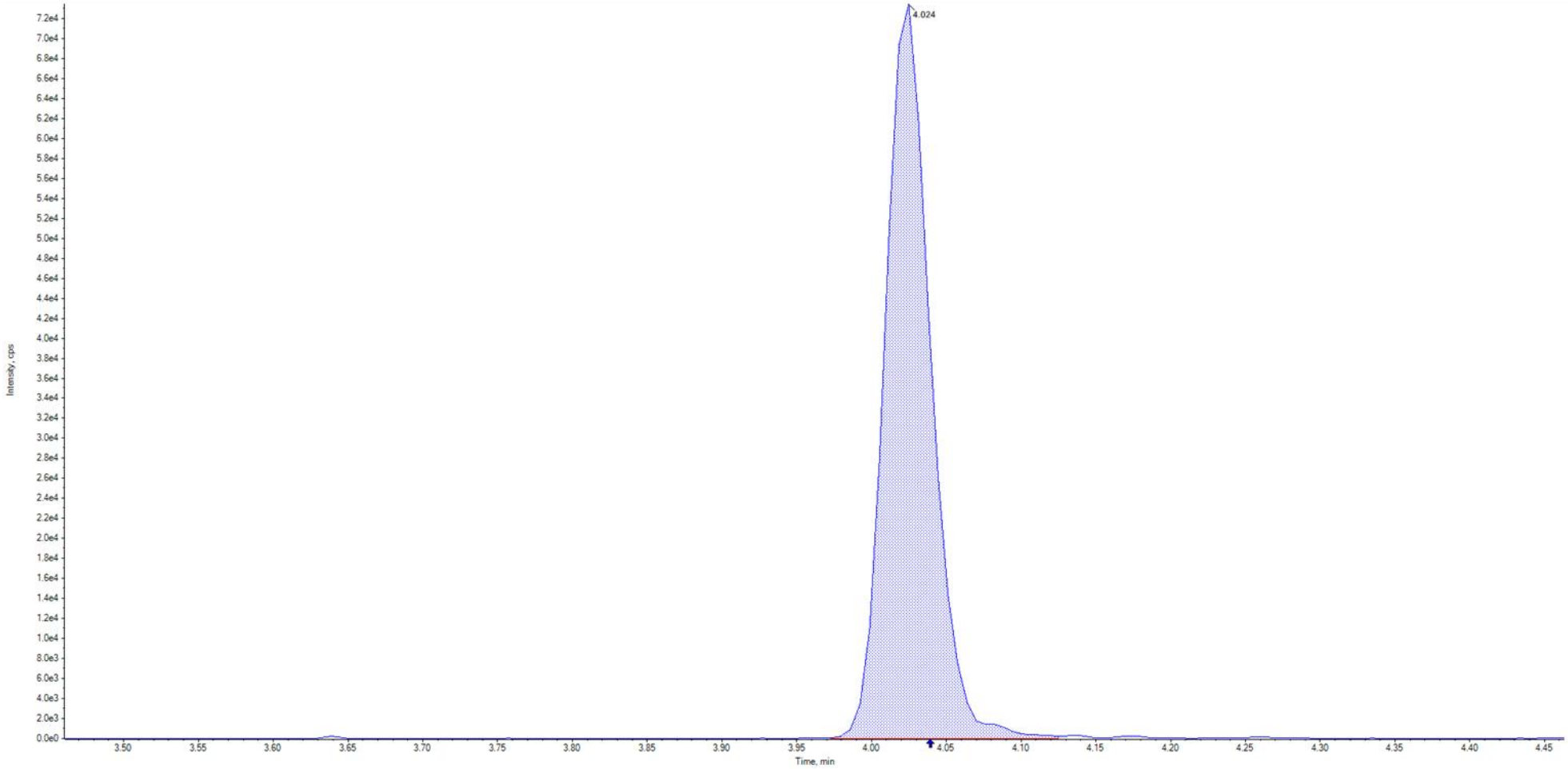
d5-NEtFOSA
Sample: L2470744-09



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_39.wiff2_6
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

d3-NMeFOSAA
Sample: L2470744-09



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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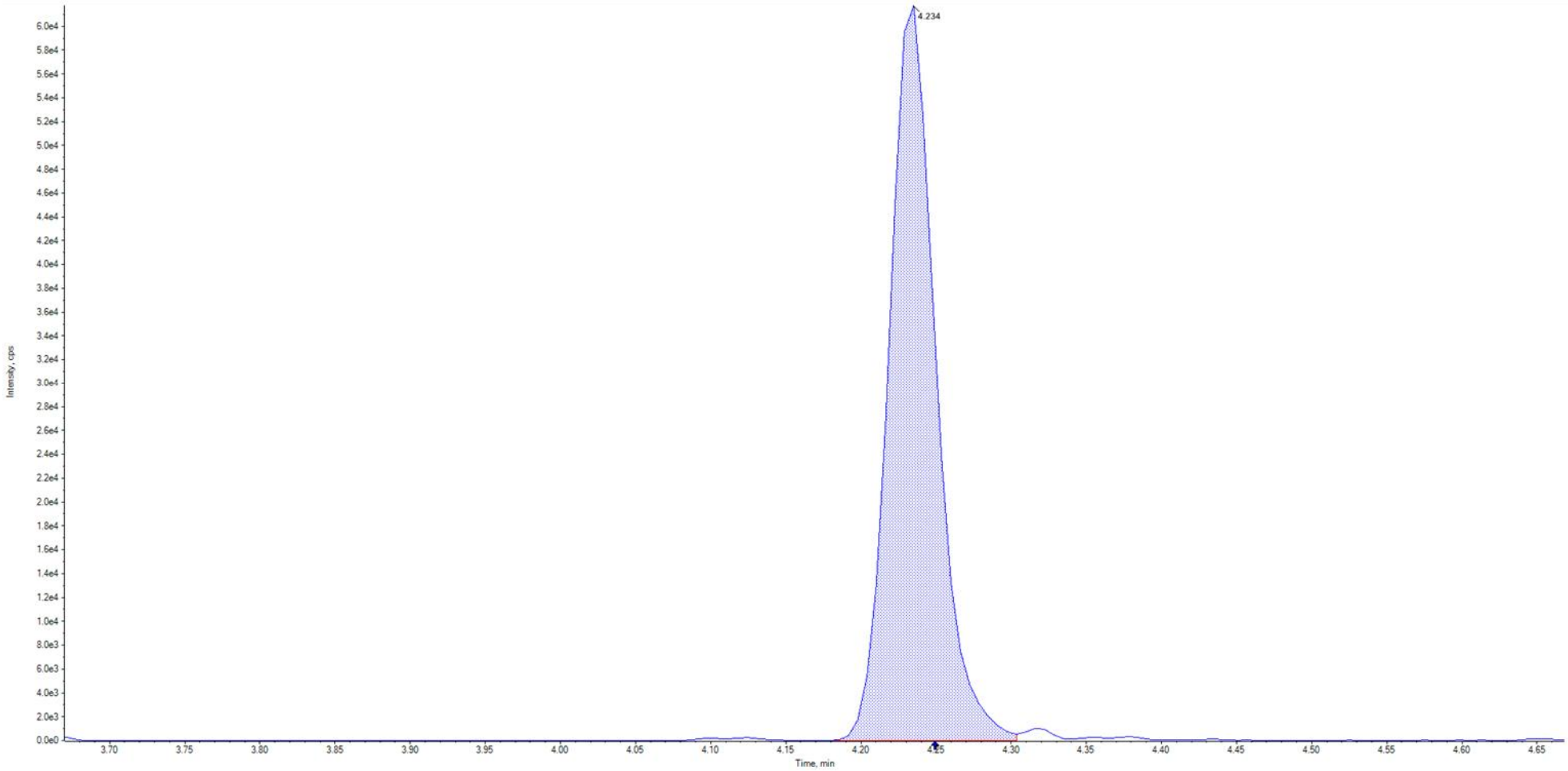
d5-NEtFOSAA
Sample: L2470744-09



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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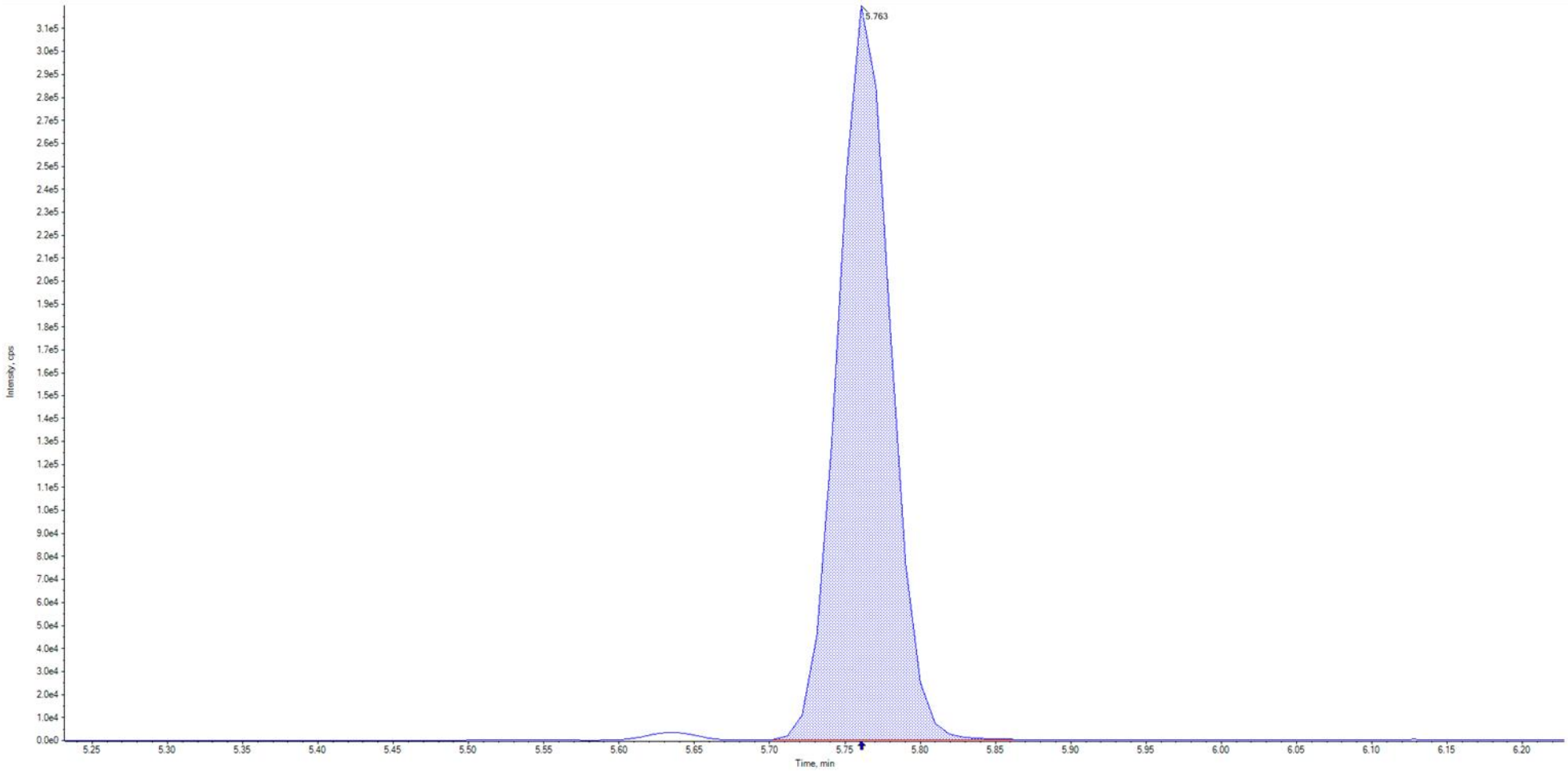
d7-NMeFOSE
Sample: L2470744-09



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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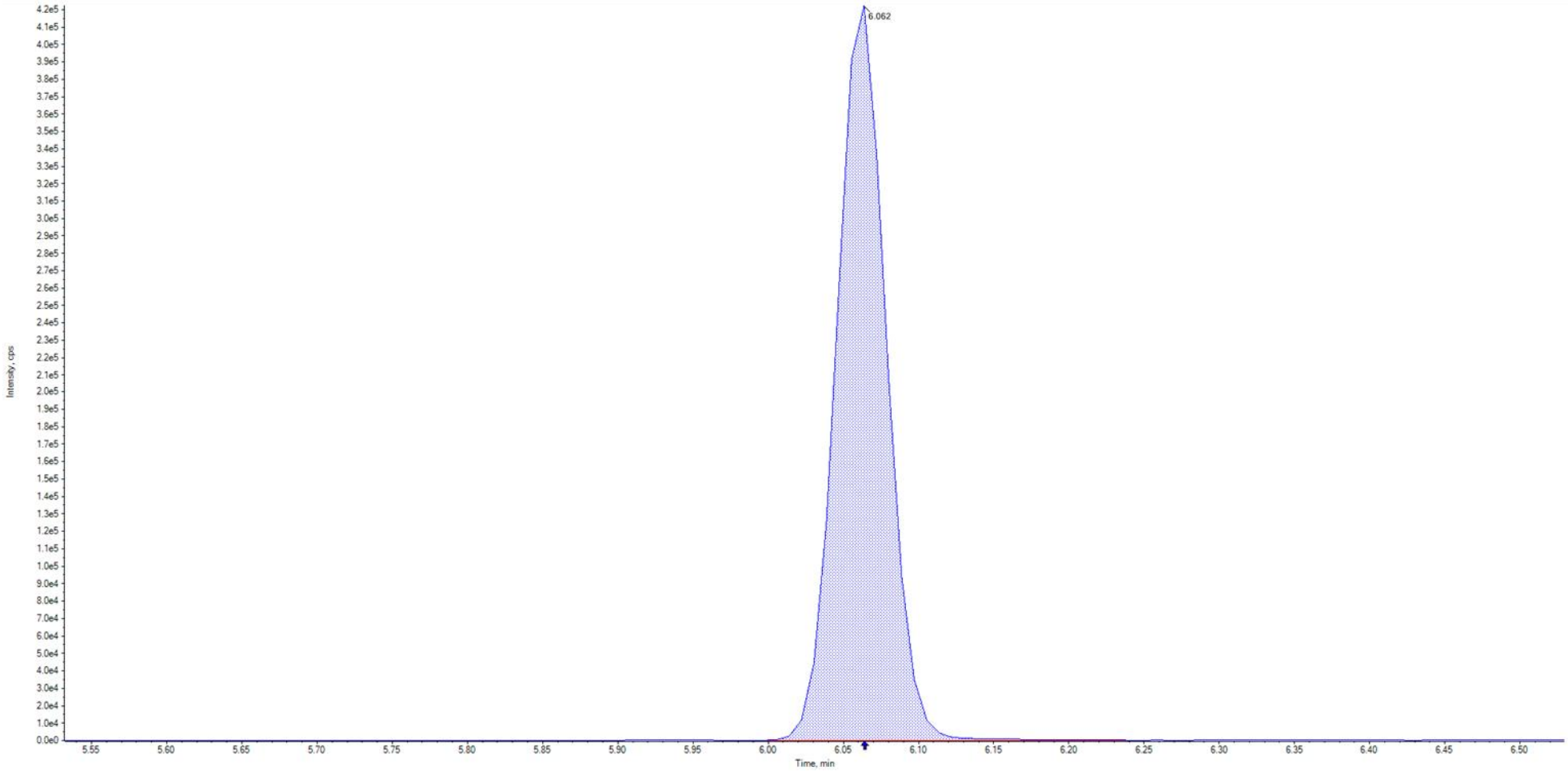
d9-NEtFOSE
Sample: L2470744-09



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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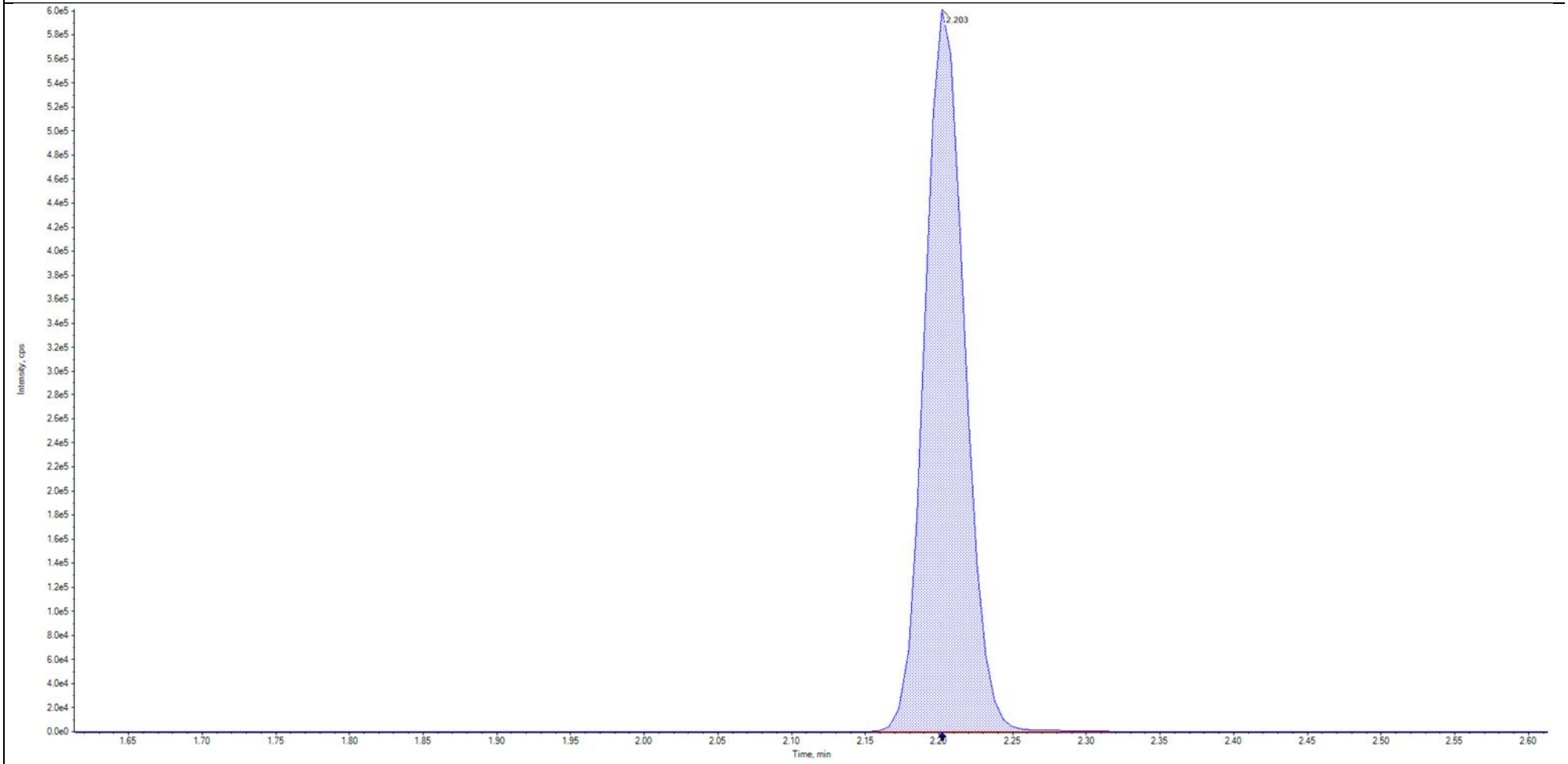
13C3-HFPO-DA
Sample: L2470744-09



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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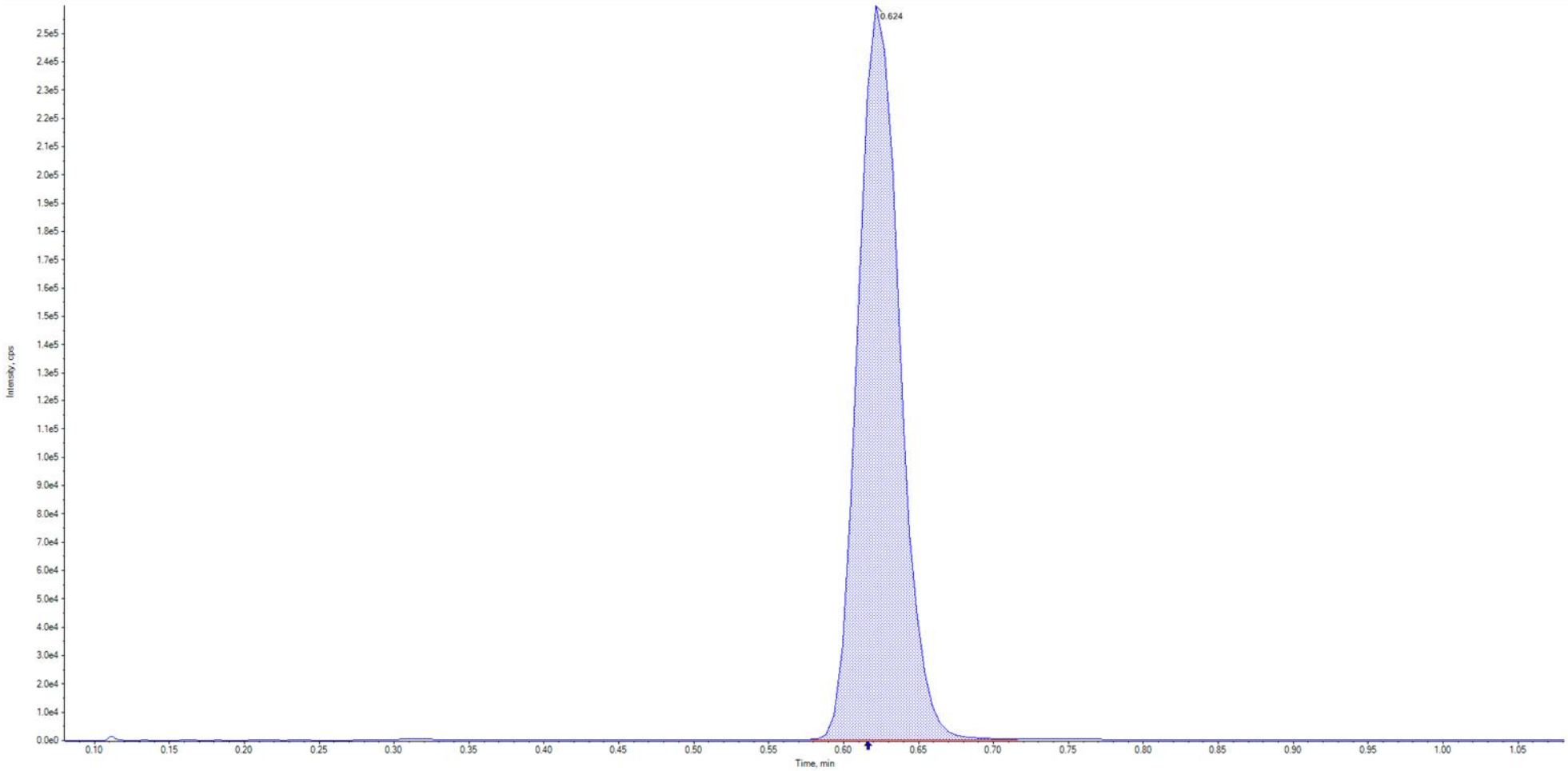
13C3-PFBA
Sample: L2470744-09



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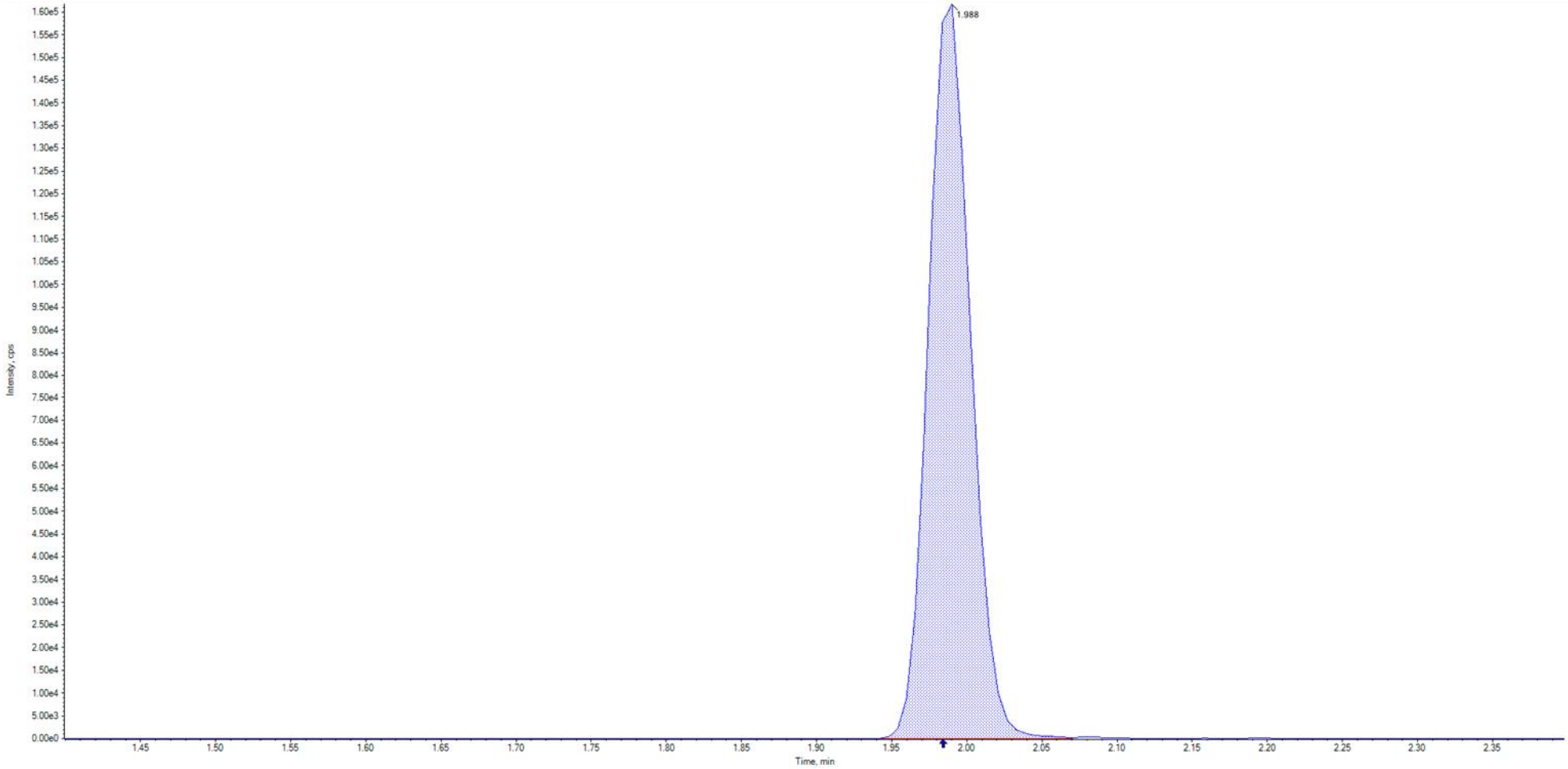
13C2-PFHxA
Sample: L2470744-09



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Alpha Analytical LLC
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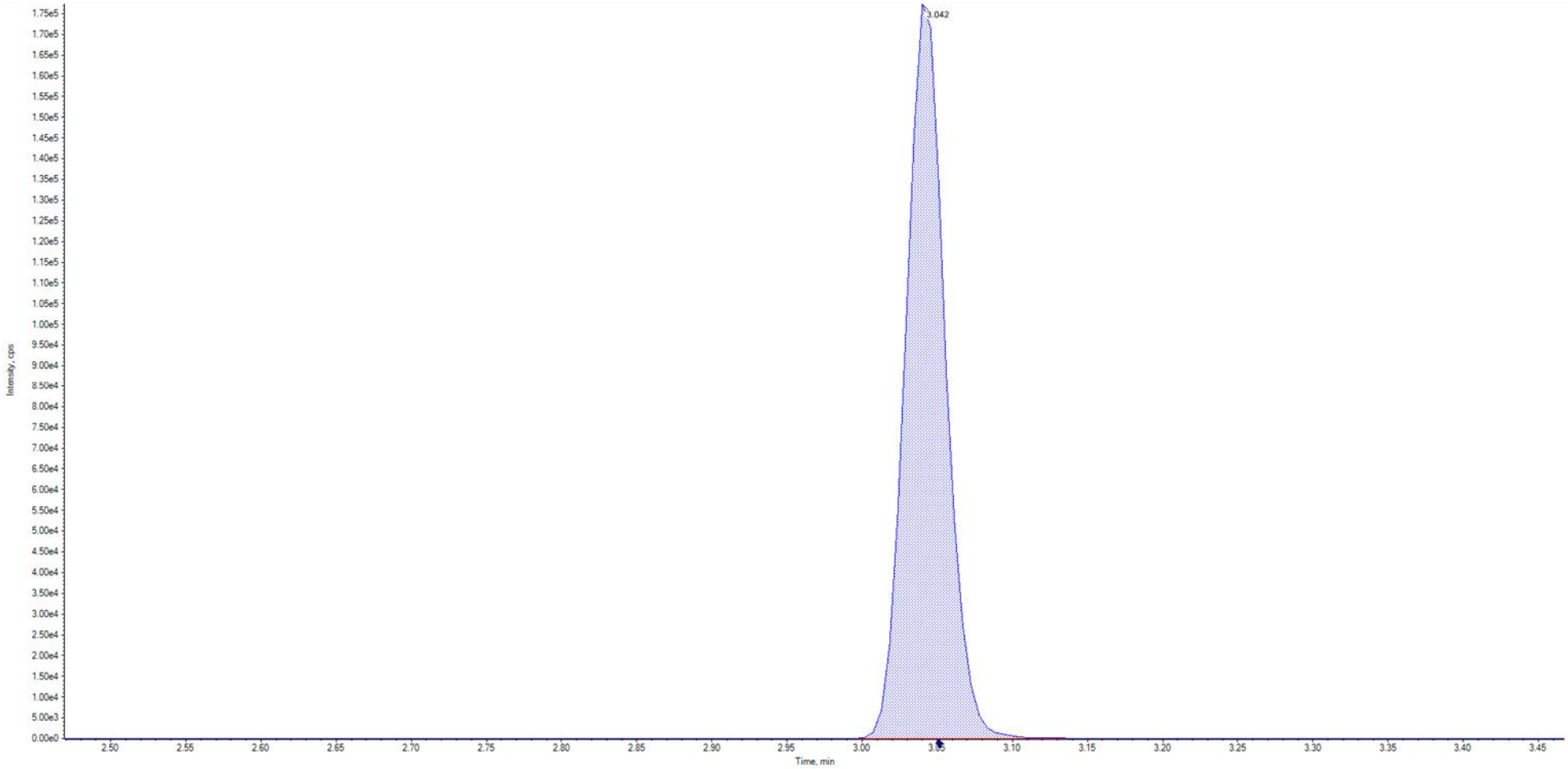
13C4-PFOA
Sample: L2470744-09



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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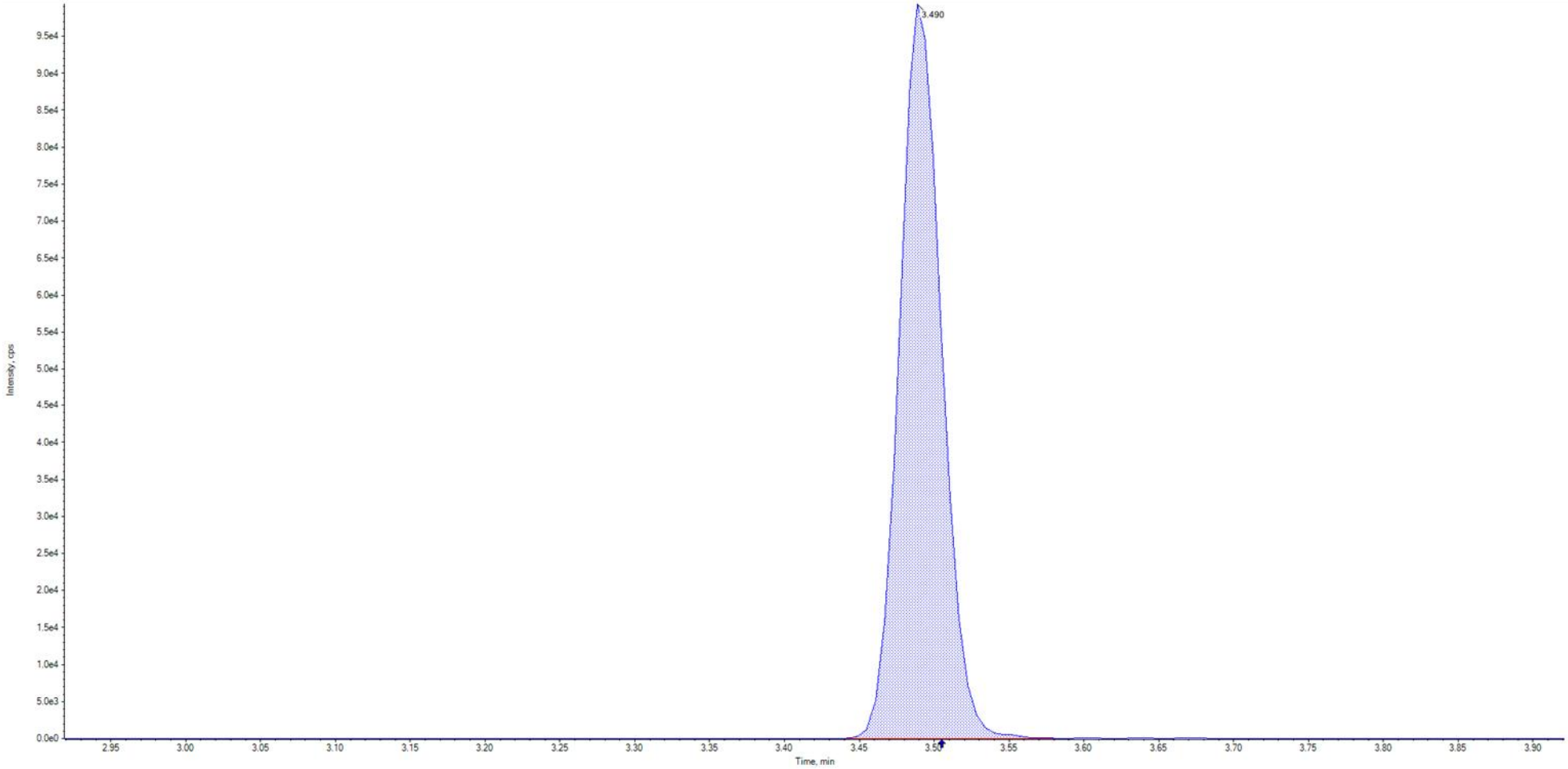
13C5-PFNA
Sample: L2470744-09



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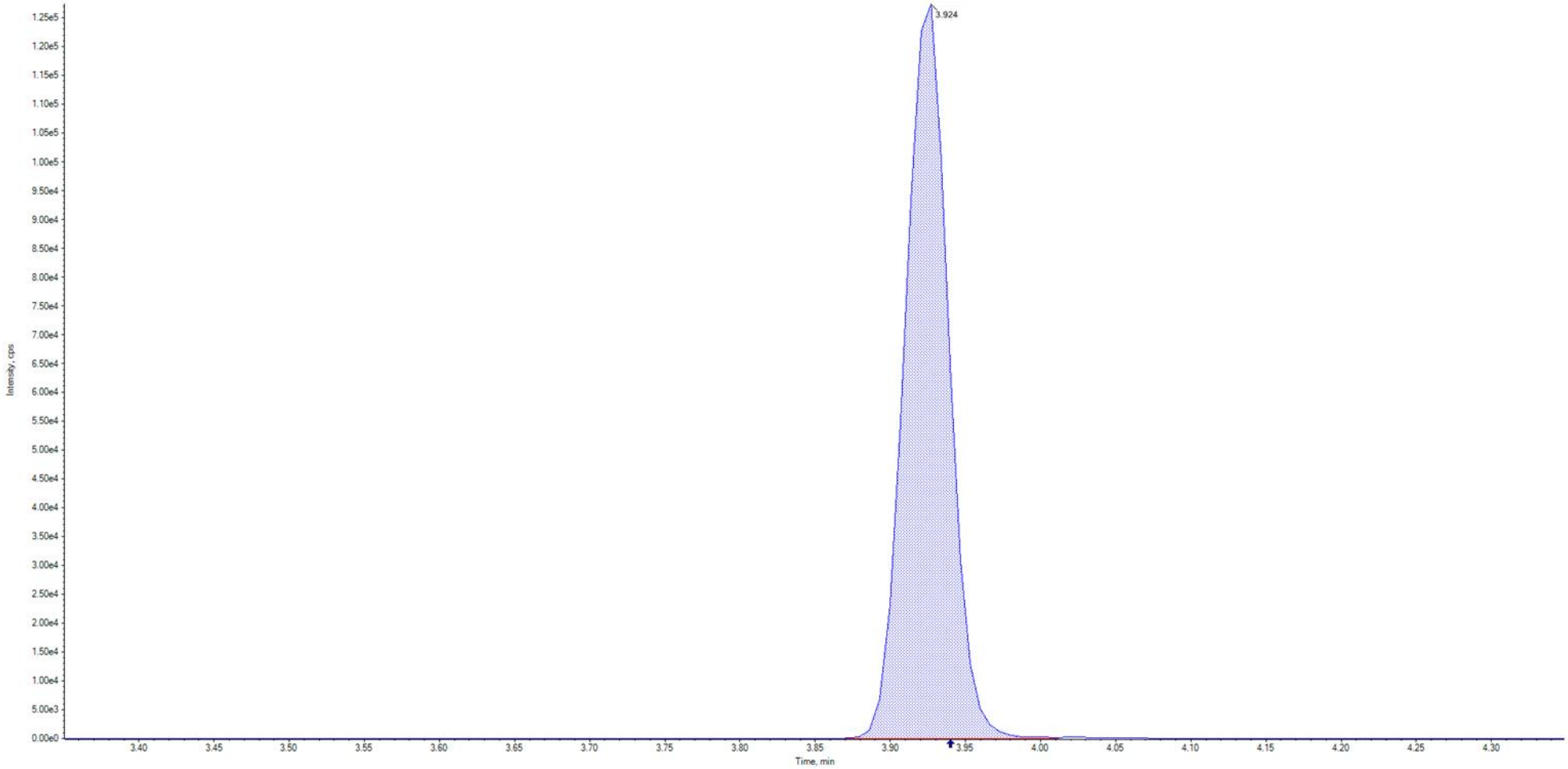
13C2-PFDA
Sample: L2470744-09



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Alpha Analytical LLC
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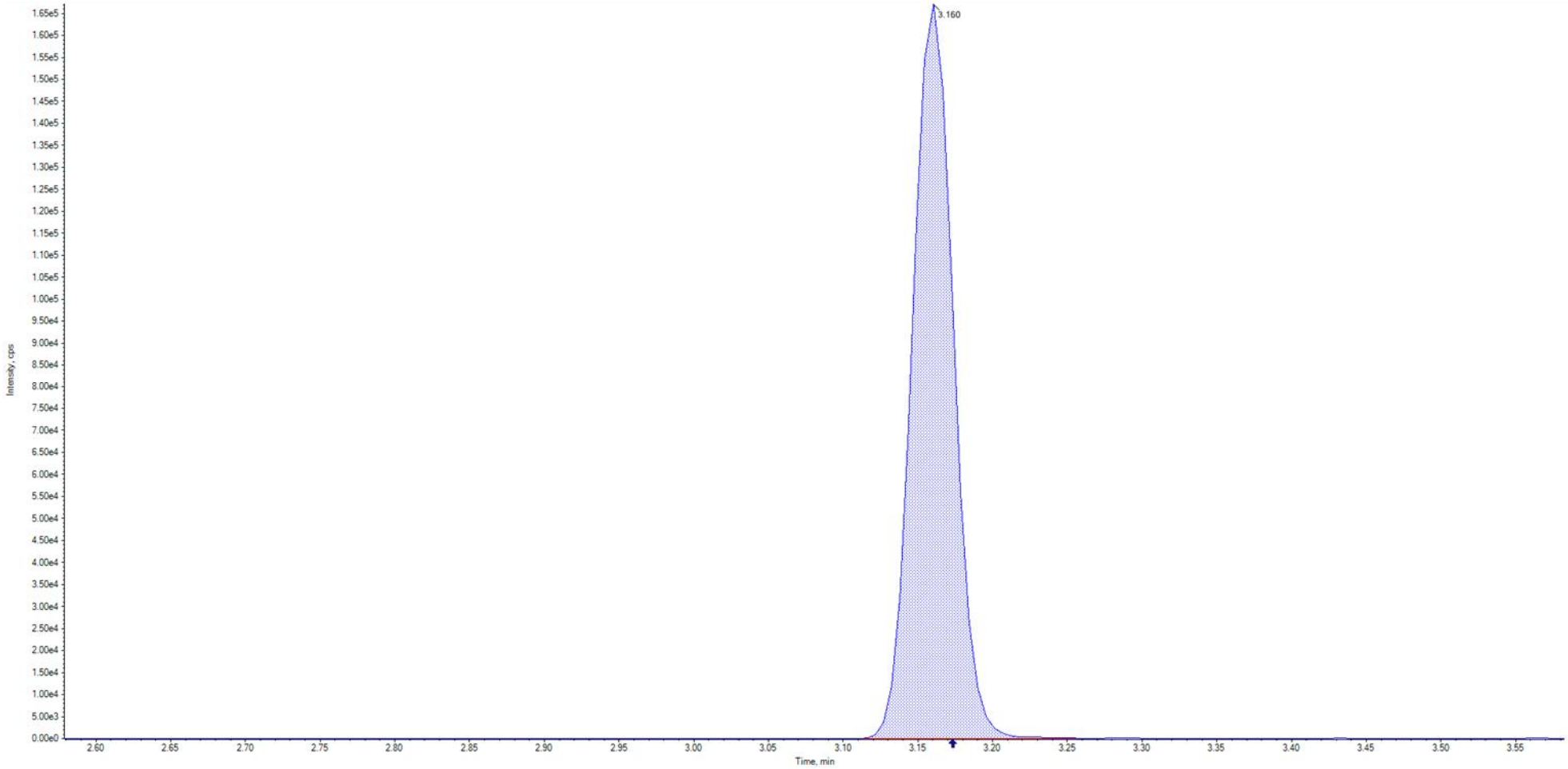
18O2-PFHxS
Sample: L2470744-09



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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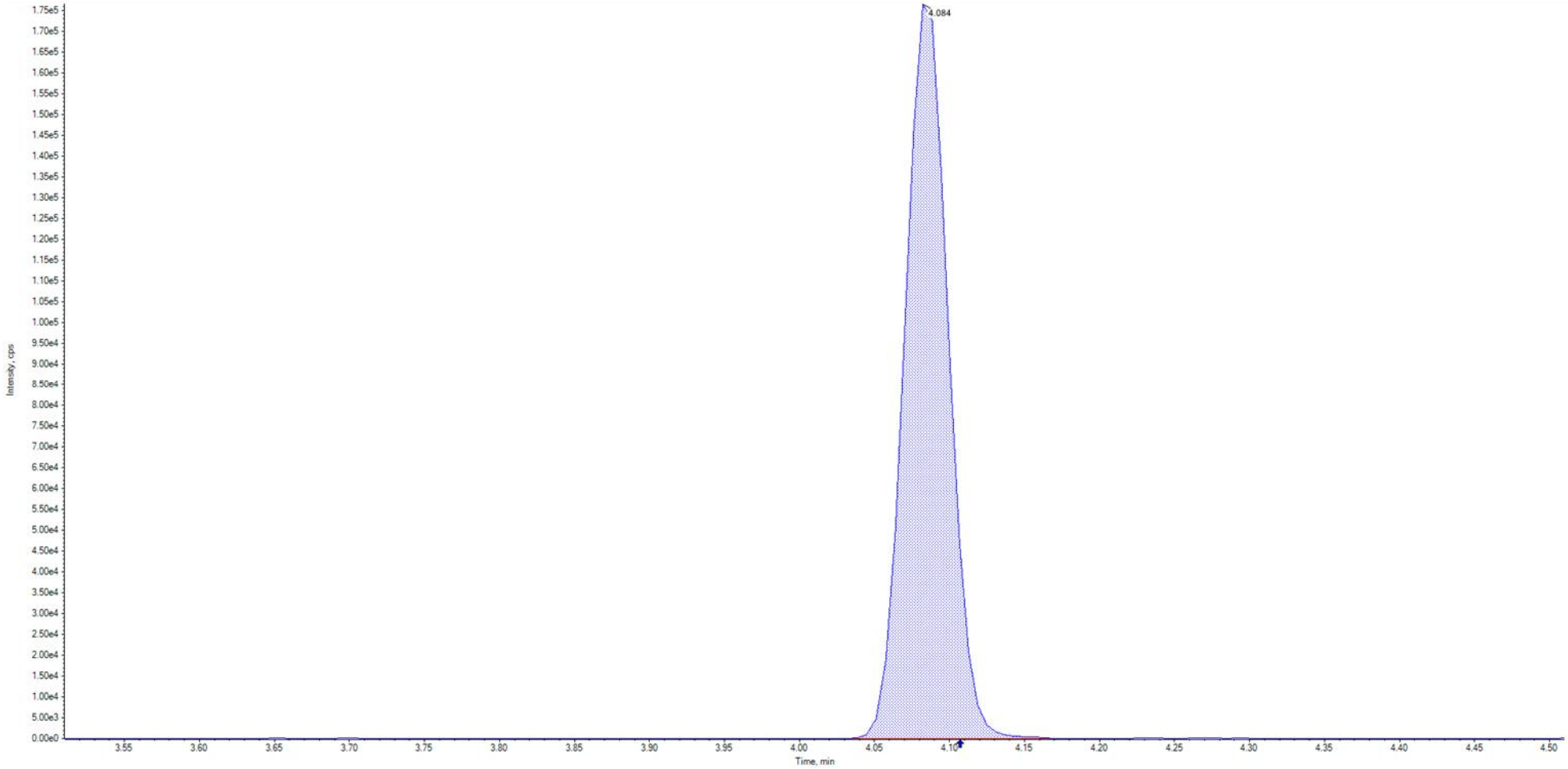
13C4-PFOS
Sample: L2470744-09



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_40.wiff2_7
Last Altered: 12/20/2024 12:29:45 PM
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Method: EPA1633F_241217.qmethod
Calibration: 241216_EPA1633_ICAL

ID: L2470744-13
Name: SCI08_241220_40.wiff2
Date & Time: 2024-12-20T10:56:38
Description: WG2011615,WG2010366,ICAL21783
Instrument: SCIEX Triple Quad 5500+
User: LCMS08:AC

LC/MS-MS Method:EPA-1633F

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
1	PFBA	375-22-4	0.65	213.0 / 169.0	29420		0.338	N/A	N/A	N/A	N/A
2	PFPeA	2706-90-3	1.25	263.0 / 219.0	21769		0.255	0.006	0.008	Pass	N/A
3	PFPeA_2	2706-90-3	1.26	263.0 / 68.9	130	M2	0.187	0.006	0.008	Pass	N/A
4	PFHxA	307-24-4	2.02	313.0 / 269.0	37475		0.334	0.095	0.084	Pass	N/A
5	PFHxA_2	307-24-4	2.01	313.0 / 119.0	3544		0.395	0.095	0.084	Pass	N/A
6	PFHpA	375-85-9	2.59	363.1 / 319.0	51149		0.436	0.477	0.404	Pass	N/A
7	PFHpA_2	375-85-9	2.59	363.1 / 169.0	24409		0.492	0.477	0.404	Pass	N/A

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_40.wiff2_7
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
8	PFOA	335-67-1	3.07	413.1 / 369.1	91273	M5	0.849	0.500	0.562	Pass	N/A
9	PFOA_2	335-67-1	3.07	413.1 / 169.0	45619	M5	0.813	0.500	0.562	Pass	N/A
10	PFNA	375-95-1	3.52	462.8 / 418.9	4411		0.048	0.276	0.464	Pass	N/A
11	PFNA_2	375-95-1	3.52	462.8 / 219.0	1218	M2	0.029	0.276	0.464	Pass	N/A
12	PFDA	335-76-2	N/A	513.1 / 469.1	N/A		N/A	N/A	0.264	N/A	N/A
13	PFDA_2	335-76-2	N/A	513.1 / 219.0	N/A		N/A	N/A	0.264	N/A	N/A
14	PFUnA	2058-94-8	N/A	563.1 / 519.1	N/A		N/A	N/A	0.204	N/A	N/A
15	PFUnA_2	2058-94-8	N/A	563.1 / 269.0	N/A		N/A	N/A	0.204	N/A	N/A
16	PFDoA	307-55-1	N/A	613.1 / 569.1	N/A		N/A	N/A	0.194	N/A	N/A
17	PFDoA_2	307-55-1	N/A	613.1 / 319.0	N/A		N/A	N/A	0.194	N/A	N/A
18	PFTrDA	72629-94-8	N/A	663.1 / 619.1	N/A		N/A	N/A	0.193	N/A	N/A
19	PFTrDA_2	72629-94-8	N/A	663.1 / 169.0	N/A		N/A	N/A	0.193	N/A	N/A
20	PFTeDA	376-06-7	N/A	713.1 / 669.1	N/A		N/A	N/A	0.163	N/A	N/A
21	PFTeDA_2	376-06-7	N/A	713.1 / 169.0	N/A		N/A	N/A	0.163	N/A	N/A
22	PFBS	375-73-5	2.02	299.1 / 80.1	63826		0.388	0.368	0.353	Pass	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
23	PFBS_2	375-73-5	2.02	299.1 / 99.1	23476		0.414	0.368	0.353	Pass	N/A
24	PFPeS	2706-91-4	2.66	349.1 / 80.1	4417		0.029	0.340	0.294	Pass	N/A
25	PFPeS_2	2706-91-4	2.66	349.1 / 99.1	1502	M2	0.035	0.340	0.294	Pass	N/A
26	PFHxS	355-46-4	3.19	399.1 / 80.1	25290	M5	0.180	0.286	0.292	Pass	N/A
27	PFHxS_2	355-46-4	3.19	399.1 / 99.1	7242	M5	0.177	0.286	0.292	Pass	N/A
28	PFHpS	375-92-8	N/A	449.1 / 80.1	N/A		N/A	N/A	0.274	N/A	N/A
29	PFHpS_2	375-92-8	N/A	449.1 / 99.1	N/A		N/A	N/A	0.274	N/A	N/A
30	PFOS	1763-23-1	4.11	499.1 / 80.1	35087	M5	0.192	0.157	0.223	Pass	N/A
31	PFOS_2	1763-23-1	4.11	499.1 / 99.1	5518	M5	0.144	0.157	0.223	Pass	N/A
32	PFNS	68259-12-1	N/A	549.1 / 80.1	N/A		N/A	N/A	0.281	N/A	N/A
33	PFNS_2	68259-12-1	N/A	549.1 / 99.1	N/A		N/A	N/A	0.281	N/A	N/A
34	PFDS	335-77-3	N/A	599.1 / 80.1	N/A		N/A	N/A	0.267	N/A	N/A
35	PFDS_2	335-77-3	N/A	599.1 / 99.1	N/A		N/A	N/A	0.267	N/A	N/A
36	PFDoS	79780-39-5	N/A	699.2 / 80.1	N/A		N/A	N/A	0.225	N/A	N/A
37	PFDoS_2	79780-39-5	N/A	699.2 / 99.1	N/A		N/A	N/A	0.225	N/A	N/A

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_40.wiff2_7
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
38	4:2FTS	757124-72-4	N/A	327.1 / 307.1	N/A		N/A	N/A	0.637	N/A	N/A
39	4:2FTS_2	757124-72-4	N/A	327.1 / 81.1	N/A		N/A	N/A	0.637	N/A	N/A
40	6:2FTS	27619-97-2	N/A	427.2 / 407.2	N/A		N/A	N/A	0.571	N/A	N/A
41	6:2FTS_2	27619-97-2	N/A	427.2 / 81.1	N/A		N/A	N/A	0.571	N/A	N/A
42	8:2FTS	39108-34-4	N/A	527.2 / 507.2	N/A		N/A	N/A	0.758	N/A	N/A
43	8:2FTS_2	39108-34-4	N/A	527.2 / 81.1	N/A		N/A	N/A	0.758	N/A	N/A
44	PFOSA	754-91-6	N/A	498.1 / 78.1	N/A		N/A	N/A	0.023	N/A	N/A
45	PFOSA_2	754-91-6	N/A	498.1 / 478.0	N/A		N/A	N/A	0.023	N/A	N/A
46	NMeFOSA	31506-32-8	N/A	512.2 / 219.0	N/A		N/A	N/A	1.447	N/A	N/A
47	NMeFOSA_2	31506-32-8	N/A	512.2 / 169.0	N/A		N/A	N/A	1.447	N/A	N/A
48	NEtFOSA	4151-50-2	N/A	526.2 / 219.0	N/A		N/A	N/A	1.299	N/A	N/A
49	NEtFOSA_2	4151-50-2	N/A	526.2 / 169.0	N/A		N/A	N/A	1.299	N/A	N/A
50	NMeFOSAA	2355-31-9	N/A	570.2 / 419.1	N/A		N/A	N/A	0.605	N/A	N/A
51	NMeFOSAA_2	2355-31-9	N/A	570.2 / 483.0	N/A		N/A	N/A	0.605	N/A	N/A
52	NEtFOSAA	2991-50-6	N/A	584.2 / 419.1	N/A		N/A	N/A	0.518	N/A	N/A

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_40.wiff2_7
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Generated: 12/20/2024 10:43:43 AM

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
53	NEtFOSAA_2	2991-50-6	N/A	584.2 / 526.2	N/A		N/A	N/A	0.518	N/A	N/A
54	NMeFOSE	24448-09-7	N/A	616.1 / 58.9	N/A		N/A	N/A	N/A	N/A	N/A
55	NEtFOSE	1691-99-2	N/A	630.0 / 58.9	N/A		N/A	N/A	N/A	N/A	N/A
56	HFPO-DA	13252-13-6	N/A	285.0 / 169.0	N/A		N/A	N/A	0.474	N/A	N/A
57	HFPO-DA_2	13252-13-6	N/A	285.0 / 184.9	N/A		N/A	N/A	0.474	N/A	N/A
58	ADONA	919005-14-4	N/A	376.9 / 251.0	N/A		N/A	N/A	0.740	N/A	N/A
59	ADONA_2	919005-14-4	N/A	376.9 / 84.8	N/A		N/A	N/A	0.740	N/A	N/A
60	9Cl-PF3ONS	756426-58-1	N/A	530.8 / 351.1	N/A		N/A	N/A	0.340	N/A	N/A
61	9Cl-PF3ONS_2	756426-58-1	N/A	532.8 / 353.0	N/A		N/A	N/A	0.340	N/A	N/A
62	11Cl-PF3OUdS	763051-92-9	N/A	630.9 / 451.0	N/A		N/A	N/A	0.328	N/A	N/A
63	11Cl-PF3OUdS_2	763051-92-9	N/A	632.9 / 452.9	N/A		N/A	N/A	0.328	N/A	N/A
64	3:3FTCA	356-02-5	N/A	241.1 / 177.1	N/A		N/A	N/A	0.996	N/A	N/A
65	3:3FTCA_2	356-02-5	N/A	241.1 / 117.0	N/A		N/A	N/A	0.996	N/A	N/A
66	5:3FTCA	914637-49-3	N/A	341.1 / 237.1	N/A		N/A	N/A	1.037	N/A	N/A
67	5:3FTCA_2	914637-49-3	N/A	341.1 / 217.0	N/A		N/A	N/A	1.037	N/A	N/A

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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
68	7:3FTCA	812-70-4	N/A	441.1 / 316.9	N/A		N/A	N/A	1.181	N/A	N/A
69	7:3FTCA_2	812-70-4	N/A	441.1 / 337.1	N/A		N/A	N/A	1.181	N/A	N/A
70	PFEESA	113507-82-7	N/A	315.1 / 135.0	N/A		N/A	N/A	0.078	N/A	N/A
71	PFEESA_2	113507-82-7	N/A	315.1 / 82.9	N/A		N/A	N/A	0.078	N/A	N/A
72	PFMPA	377-73-1	N/A	229.0 / 85.0	N/A		N/A	N/A	N/A	N/A	N/A
73	PFMBA	863090-89-5	N/A	279.0 / 85.0	N/A		N/A	N/A	N/A	N/A	N/A
74	NFDHA	151772-58-6	N/A	295.0 / 201.0	N/A		N/A	N/A	0.765	N/A	N/A
75	NFDHA_2	151772-58-6	N/A	295.0 / 84.9	N/A		N/A	N/A	0.765	N/A	N/A
76	TDCA	516-50-7	N/A	499.1 / 124.1	N/A		N/A	N/A	5.845	N/A	N/A
77	TDCA_2	516-50-7	N/A	499.1 / 79.9	N/A		N/A	N/A	5.845	N/A	N/A
78	13C2D4-4:2FTS	Surr	N/A	333.2 / 312.1	N/A		N/A	N/A	N/A	N/A	N/A
79	13C2-PFOA	Surr	N/A	415.0 / 370.0	N/A		N/A	N/A	N/A	N/A	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C4-PFBA	EIS	0.65	217.0 / 172.0	1051148		8.281	NA	NA	NA	82.8

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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C5-PFPeA	EIS	1.25	268.0 / 223.0	472876		4.399	NA	NA	NA	88.0
	13C5-PFHxA	EIS	2.01	318.0 / 273.0	264704		1.988	NA	NA	NA	79.5
	13C4-PFHpA	EIS	2.58	367.0 / 322.0	345195		2.055	NA	NA	NA	82.2
	13C8-PFOA	EIS	3.07	420.8 / 376.0	385633		2.032	NA	NA	NA	81.3
	13C9-PFNA	EIS	3.52	472.0 / 427.0	192599		1.083	NA	NA	NA	86.6
	13C6-PFDA	EIS	3.95	519.0 / 474.0	240751		1.048	NA	NA	NA	83.9
	13C7-PFUnA	EIS	4.37	570.0 / 525.0	235006		0.963	NA	NA	NA	77.0

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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C2-PFDoA	EIS	4.78	615.1 / 570.0	175823		0.876	NA	NA	NA	70.1
	13C2-PFTeDA	EIS	5.57	715.1 / 670.1	191943		0.814	NA	NA	NA	65.1
	13C3-PFBS	EIS	2.02	302.1 / 80.1	406249		2.050	NA	NA	NA	88.0
	13C3-PFHxS	EIS	3.18	402.1 / 80.1	343136		2.041	NA	NA	NA	86.1
	13C8-PFOS	EIS	4.11	507.1 / 80.1	428034		1.979	NA	NA	NA	82.5
	13C2-4:2FTS	EIS	1.79	329.1 / 81.1	83242		4.453	NA	NA	NA	94.9
	13C2-6:2FTS	EIS	2.88	429.2 / 81.1	71628		4.020	NA	NA	NA	84.5
	13C2-8:2FTS	EIS	3.75	529.2 / 81.1	88005		3.503	NA	NA	NA	73.0

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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C8-PFOSA	EIS	5.21	506.1 / 78.1	592207		1.906	NA	NA	NA	76.2
	d3-NMeFOSA	EIS	5.94	515.2 / 219.0	80554		1.654	NA	NA	NA	66.2
	d5-NEtFOSA	EIS	6.23	531.2 / 219.0	81501		1.691	NA	NA	NA	67.6
	d3-NMeFOSAA	EIS	4.05	573.2 / 419.1	138540		3.560	NA	NA	NA	71.2
	d5-NEtFOSAA	EIS	4.26	589.3 / 419.1	119431		3.660	NA	NA	NA	73.2
	d7-NMeFOSE	EIS	5.79	623.2 / 58.9	707395		20.243	NA	NA	NA	81.0
	d9-NEtFOSE	EIS	6.09	639.2 / 58.9	869429		20.113	NA	NA	NA	80.5

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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C3-HFPO-DA	EIS	2.23	287.0 / 169.0	1037961		8.497	NA	NA	NA	85.0
	13C3-PFBA	NIS	0.65	216.0 / 172.0	557237		5.646	NA	NA	NA	112.9
	13C2-PFHxA	NIS	2.01	315.0 / 270.0	355935		2.602	NA	NA	NA	104.1
	13C4-PFOA	NIS	3.07	417.0 / 372.0	368044		2.521	NA	NA	NA	100.9
	13C5-PFNA	NIS	3.51	468.0 / 423.0	223957		1.207	NA	NA	NA	96.5
	13C2-PFDA	NIS	3.95	515.1 / 470.1	275801		1.211	NA	NA	NA	96.9
	18O2-PFHxS	NIS	3.18	403.1 / 84.1	346133		2.263	NA	NA	NA	95.5
	13C4-PFOS	NIS	4.11	503.1 / 80.1	397487		2.337	NA	NA	NA	97.4

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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec

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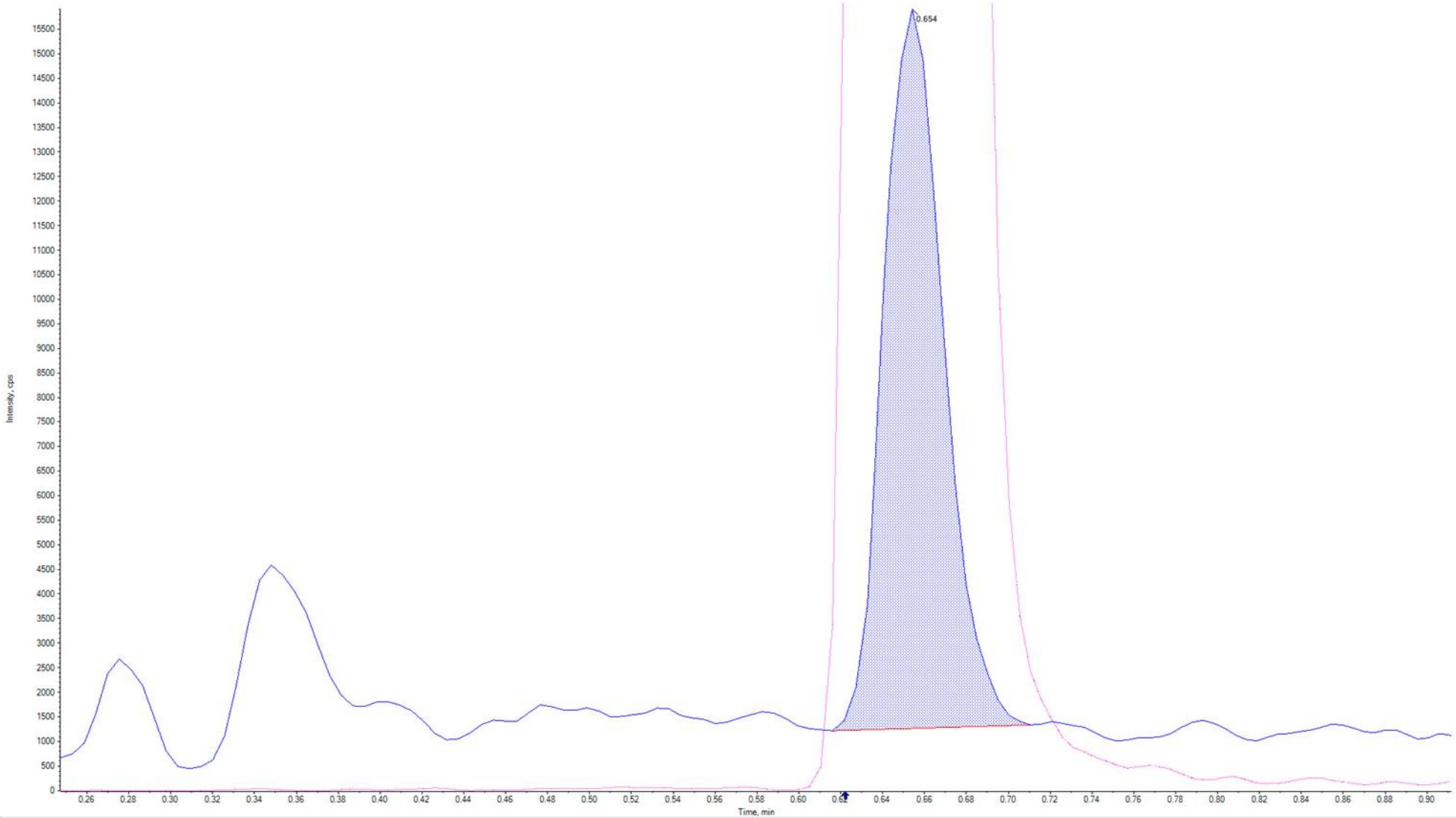
PFBA
Sample: L2470744-13 S/N:124.4 Points Across peak:20



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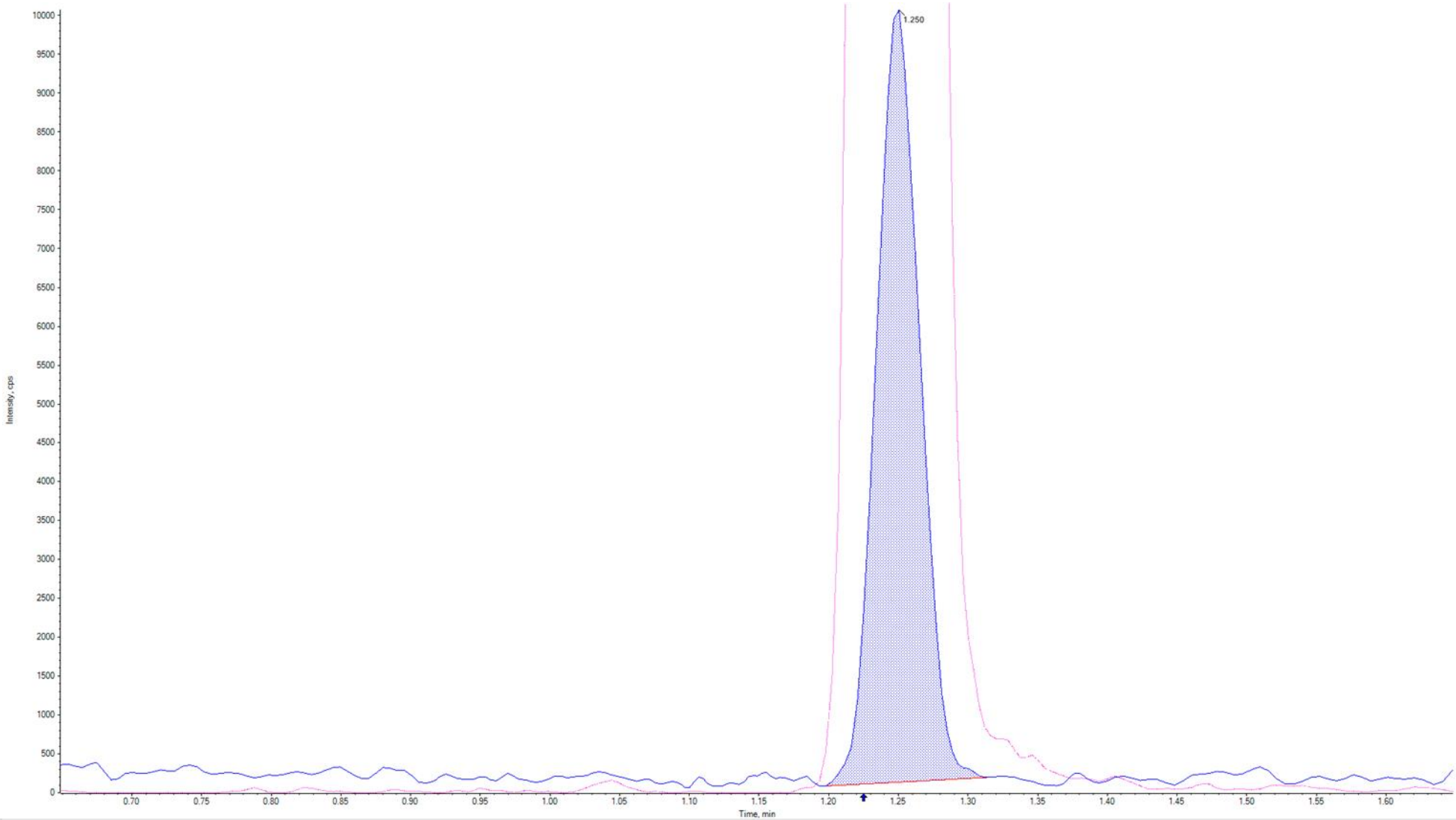
PFPeA
Sample: L2470744-13 S/N:450.2 Points Across peak:31



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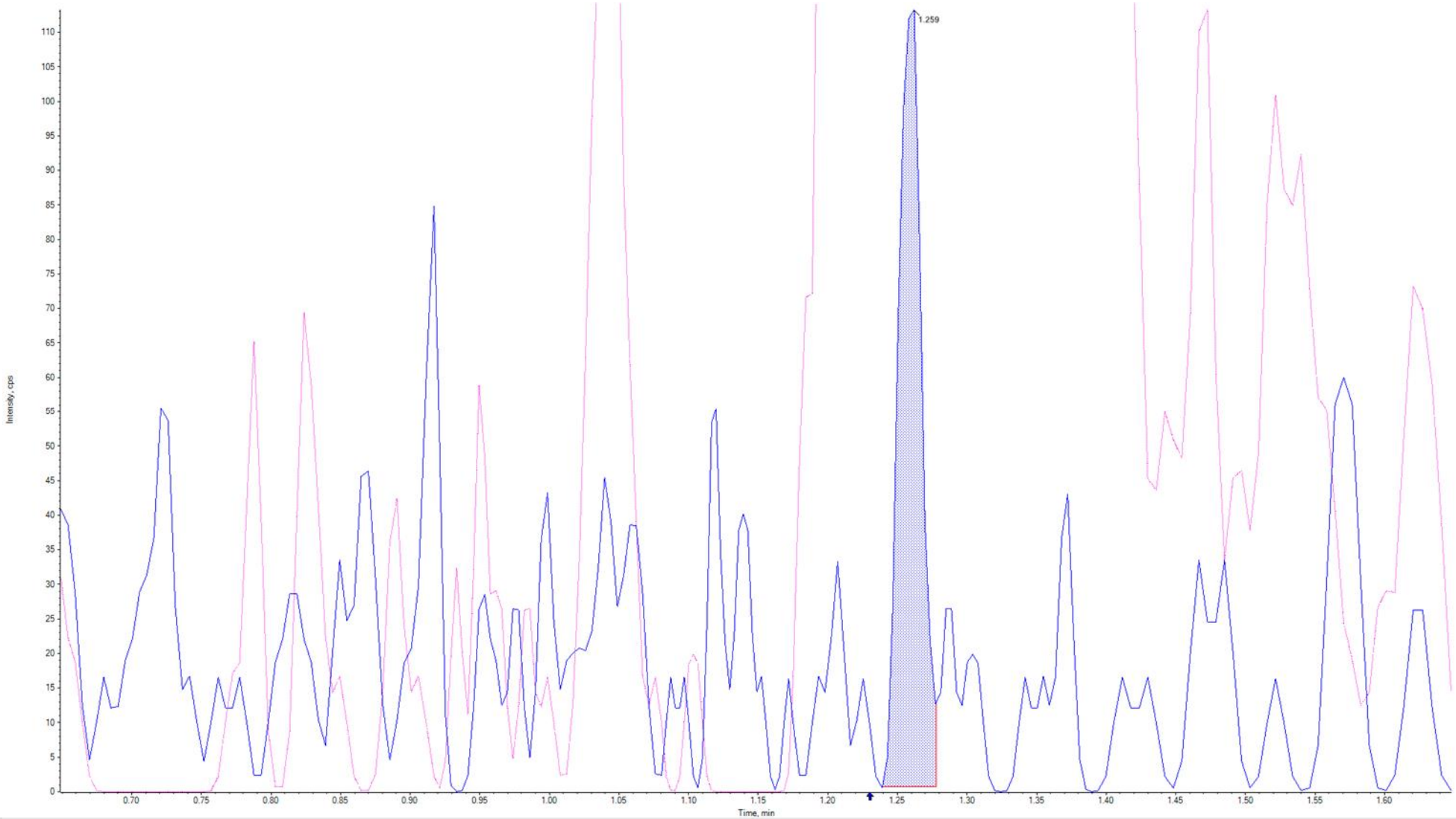
PFPeA_2
Sample: L2470744-13 S/N:6.8 Points Across peak:13



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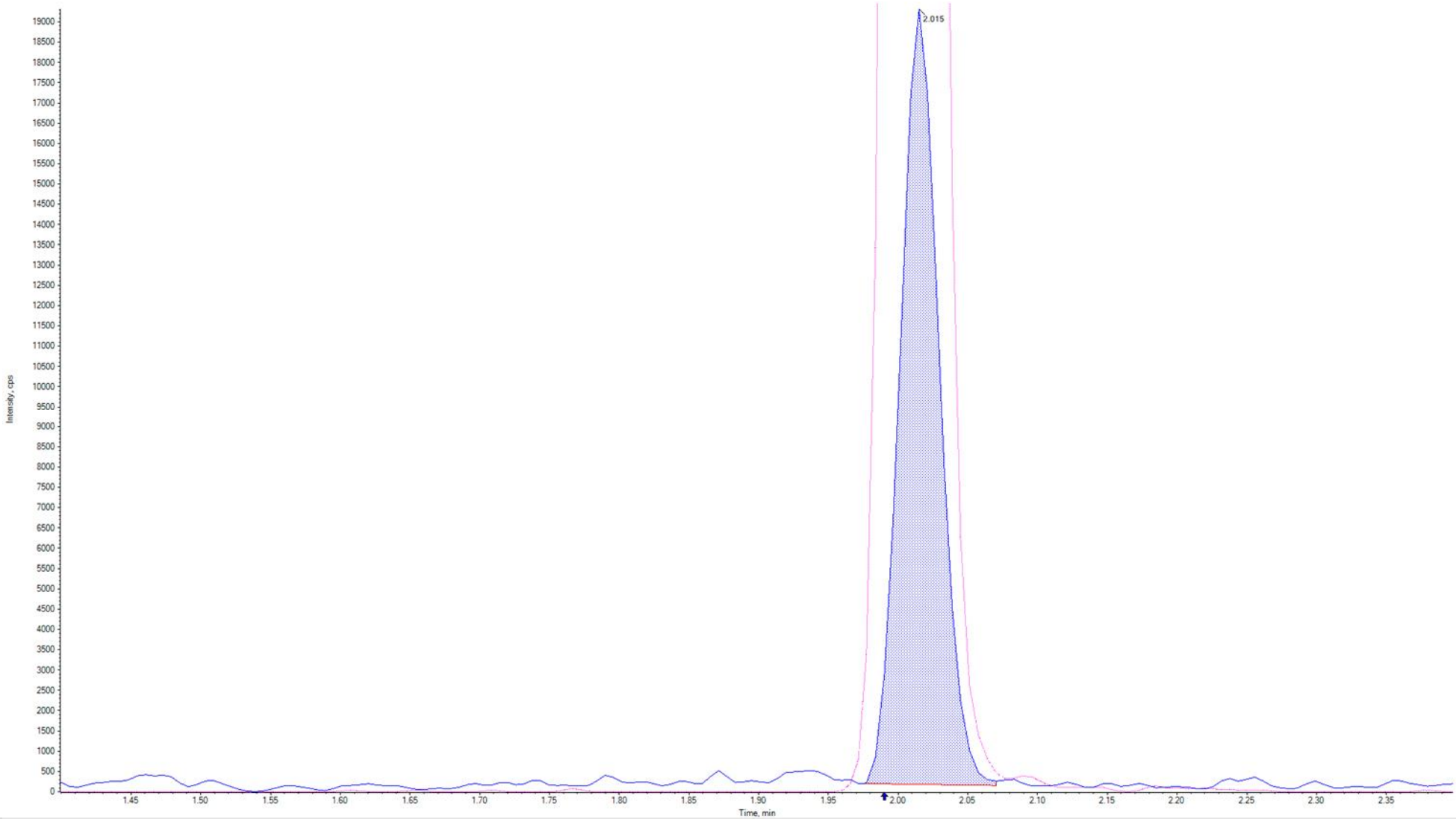
PFHxA
Sample: L2470744-13 S/N:479.5 Points Across peak:17



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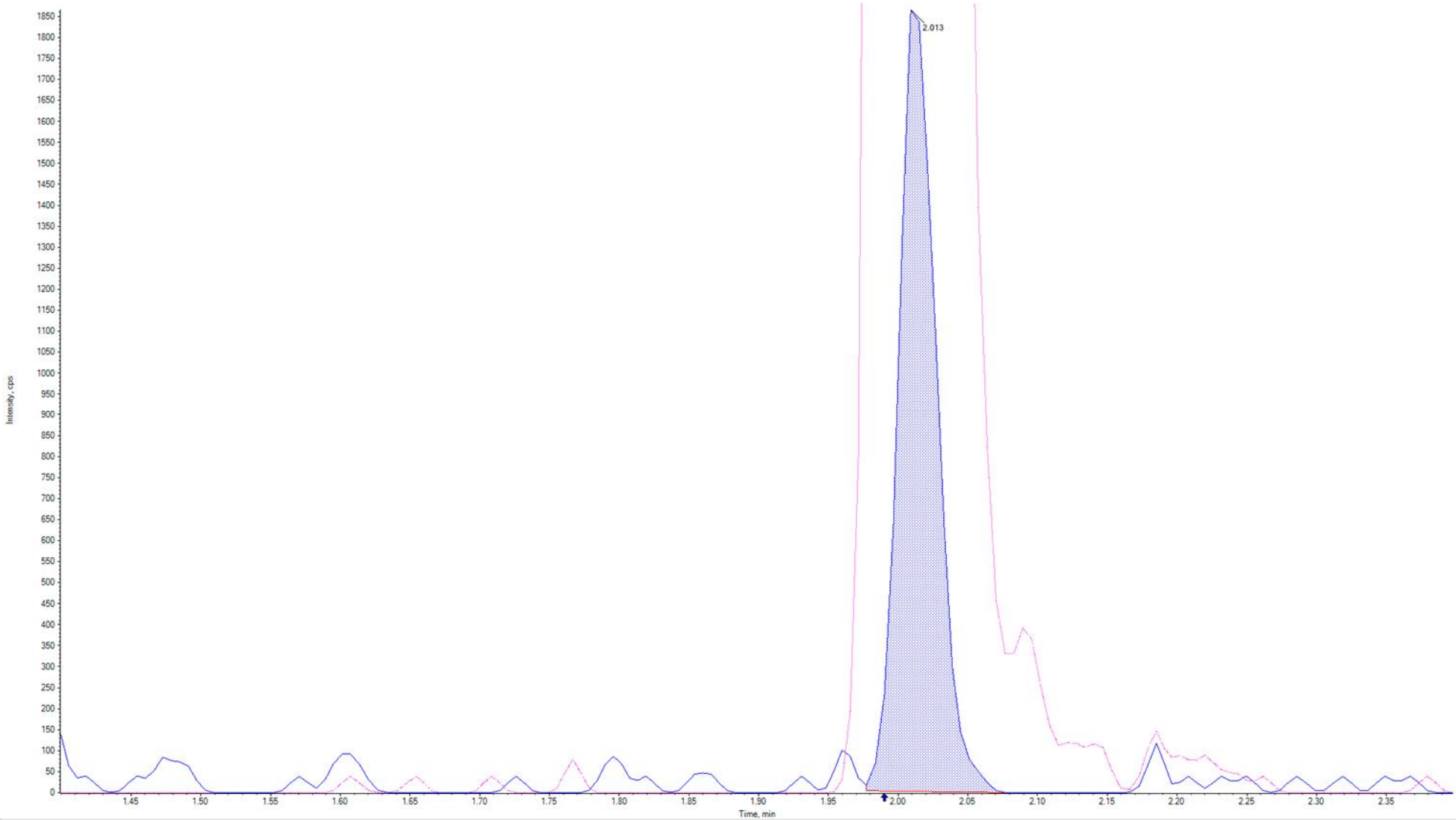
PFHxA_2
Sample: L2470744-13 S/N:46.7 Points Across peak:18



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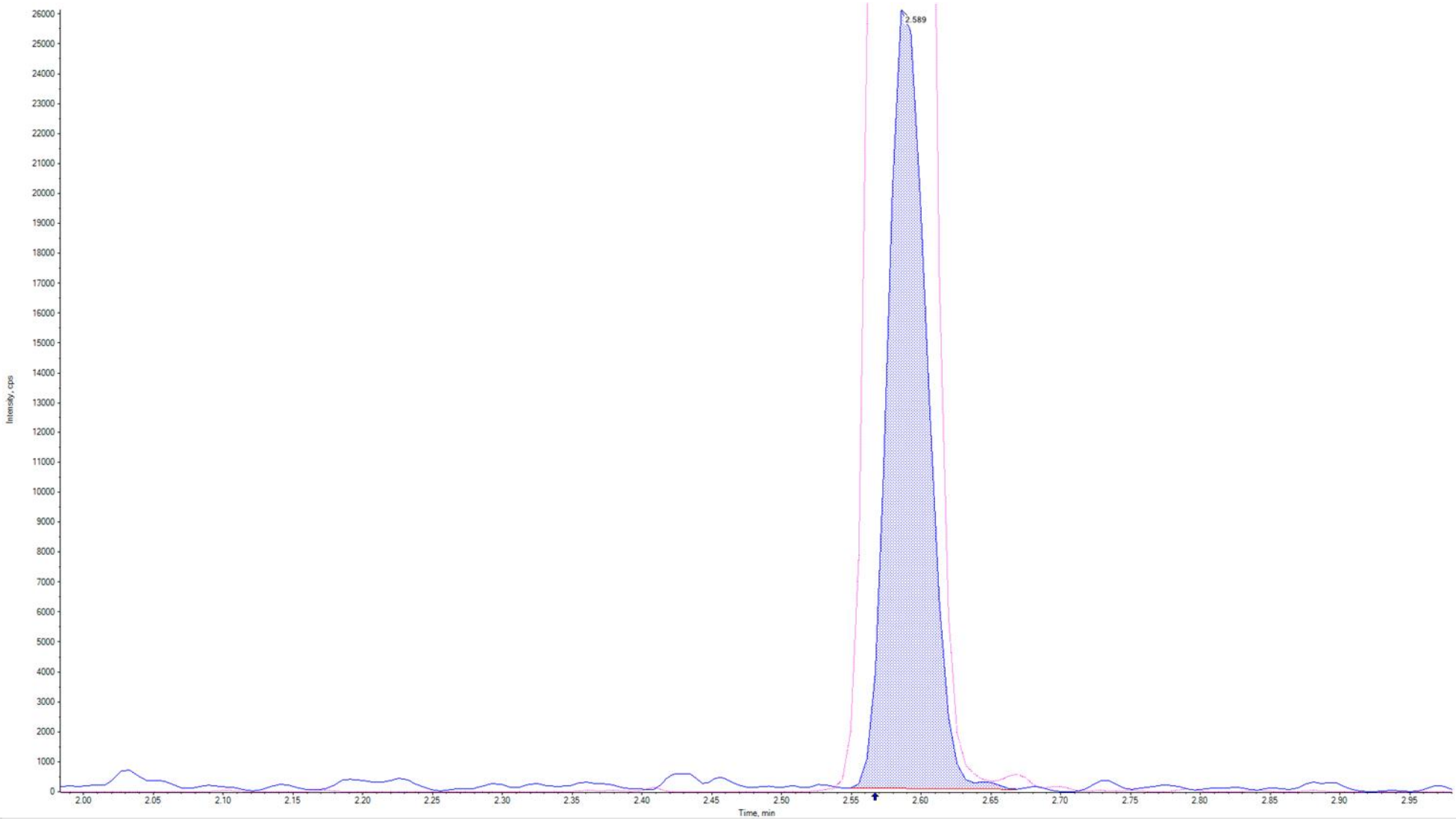
PFHpA
Sample: L2470744-13 S/N:521.8 Points Across peak:21



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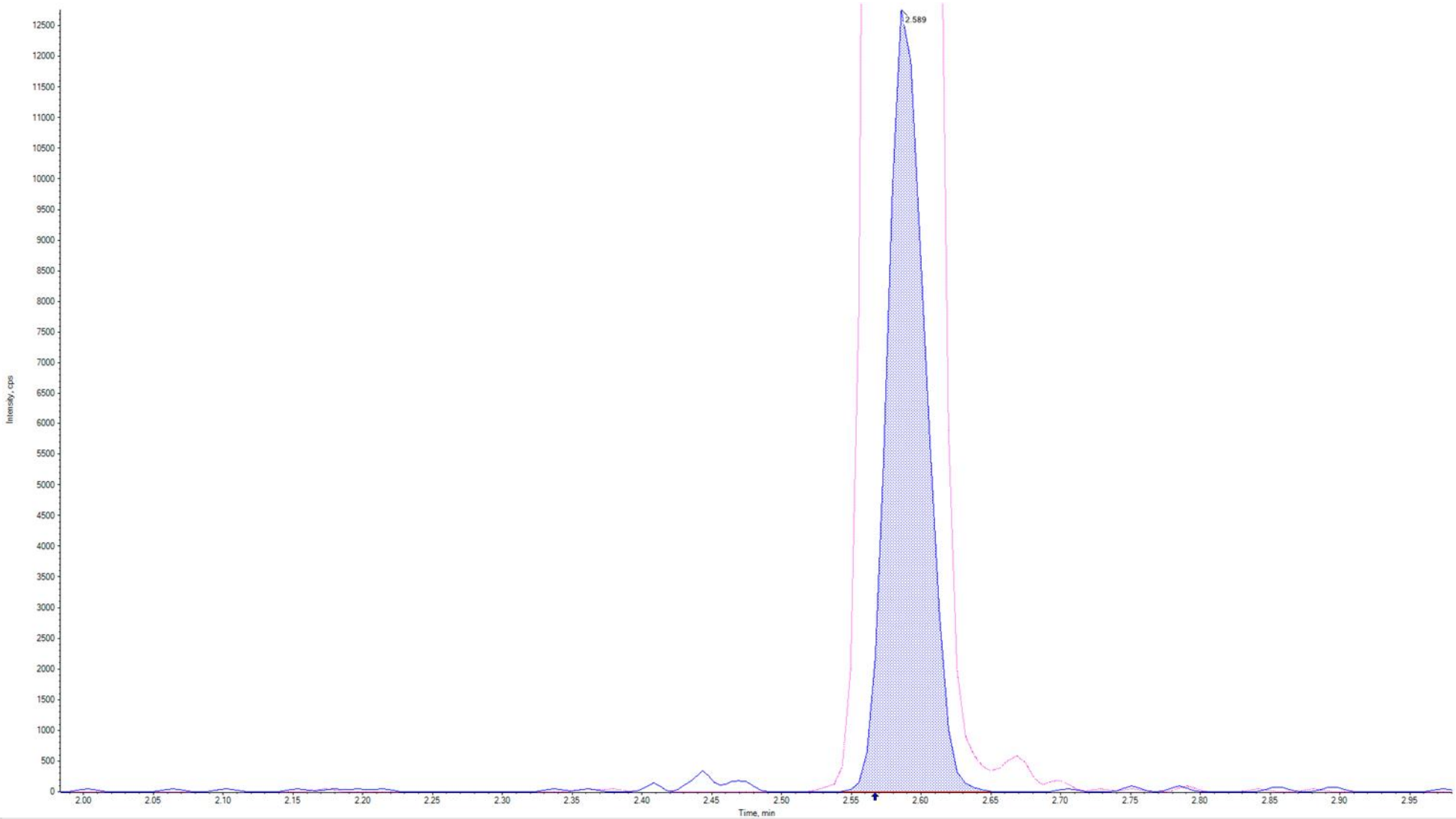
PFHpA_2
Sample: L2470744-13 S/N:255.8 Points Across peak:26



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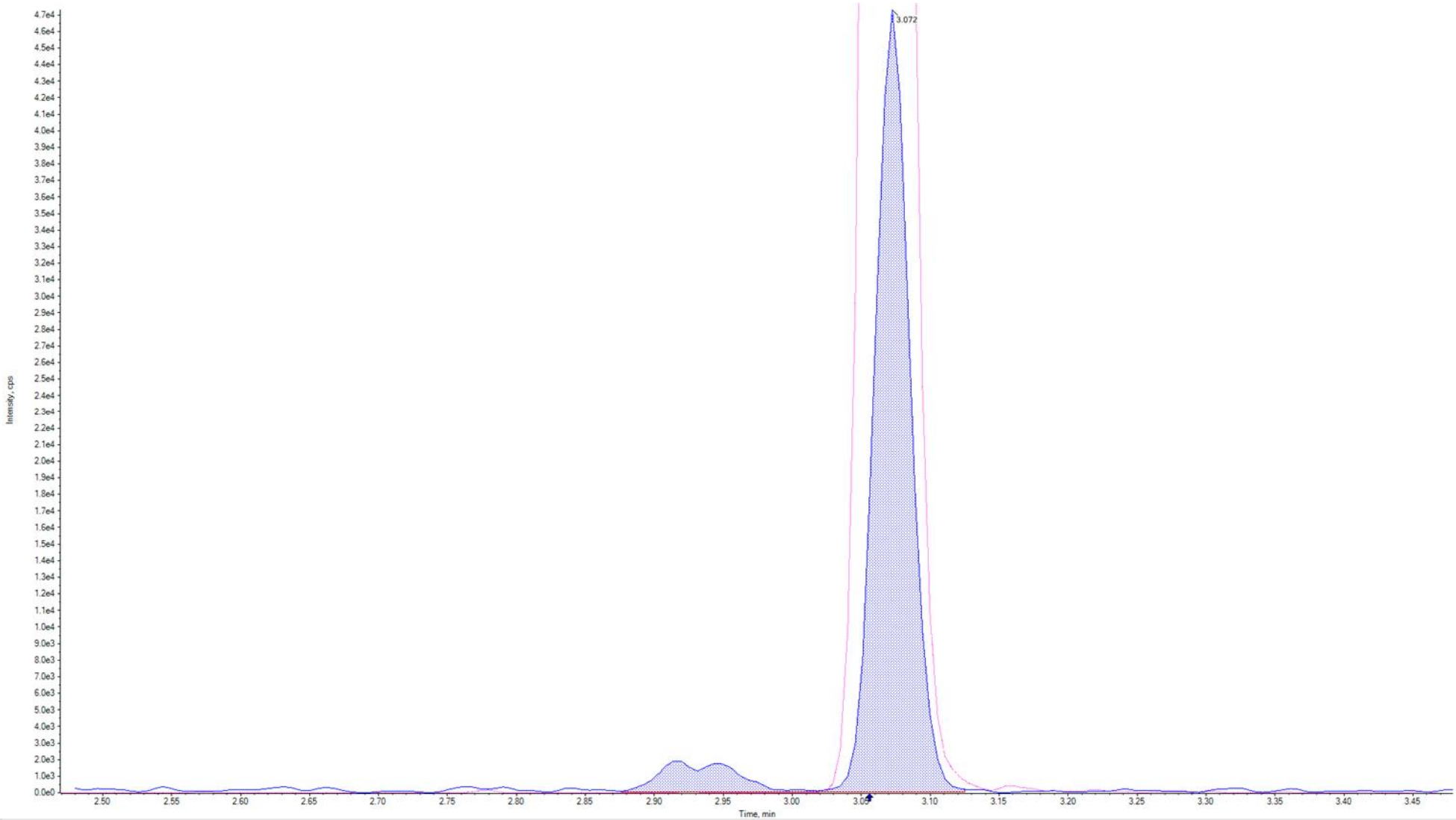
PFOA
Sample: L2470744-13 S/N:507.3 Points Across peak:46



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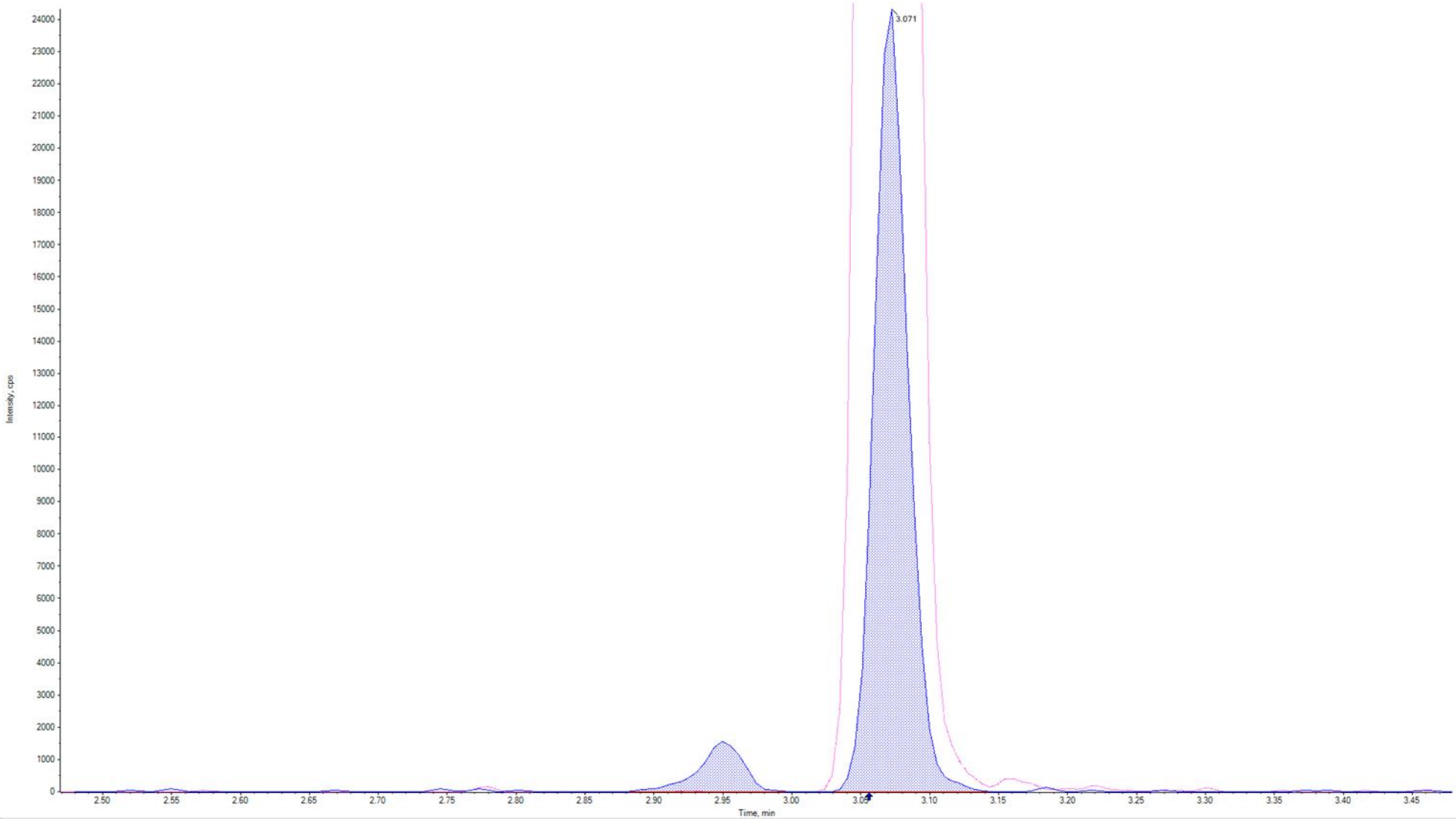
PFOA_2
Sample: L2470744-13 S/N:548.6 Points Across peak:50



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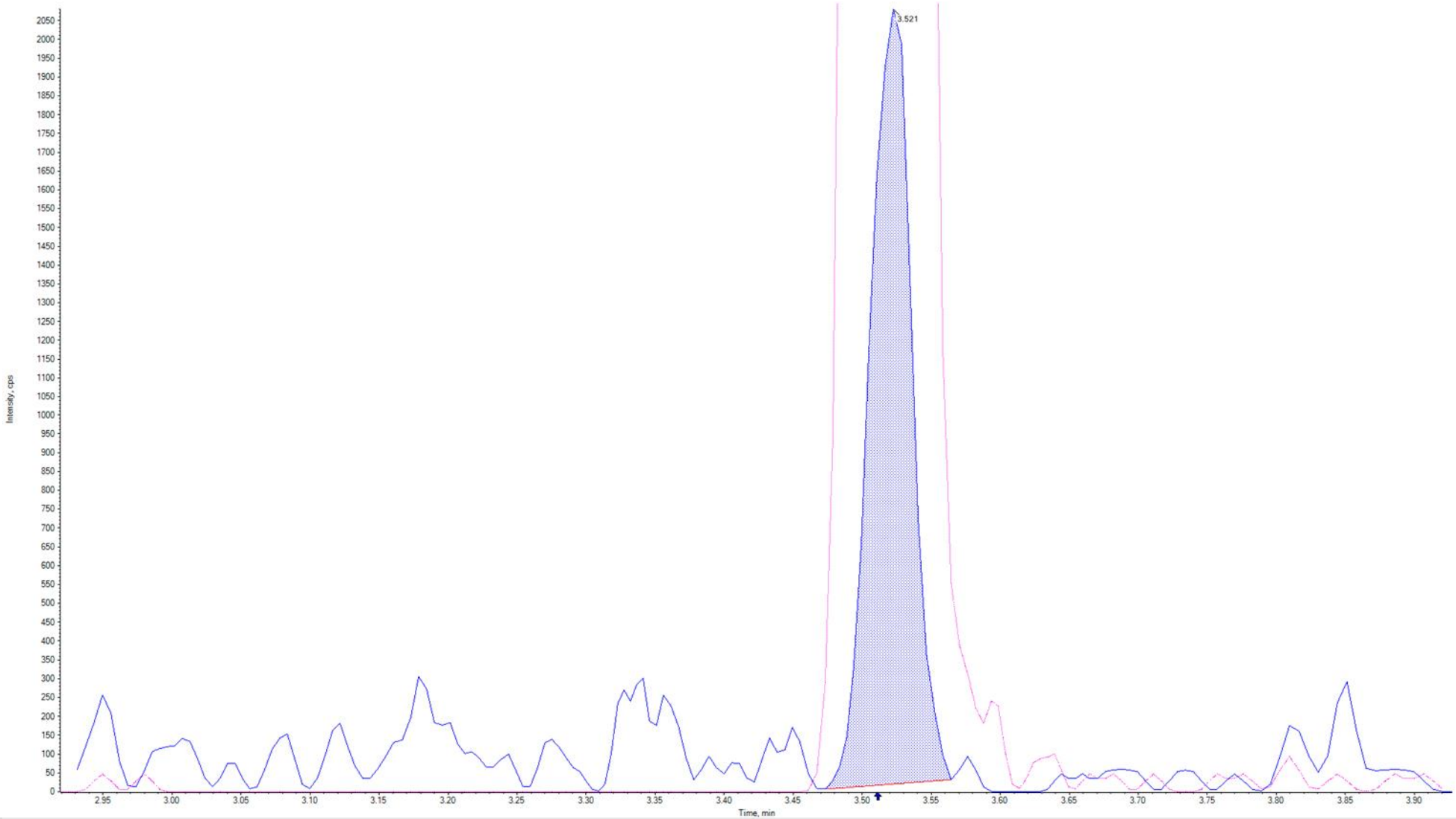
PFNA
Sample: L2470744-13 S/N:46.5 Points Across peak:17



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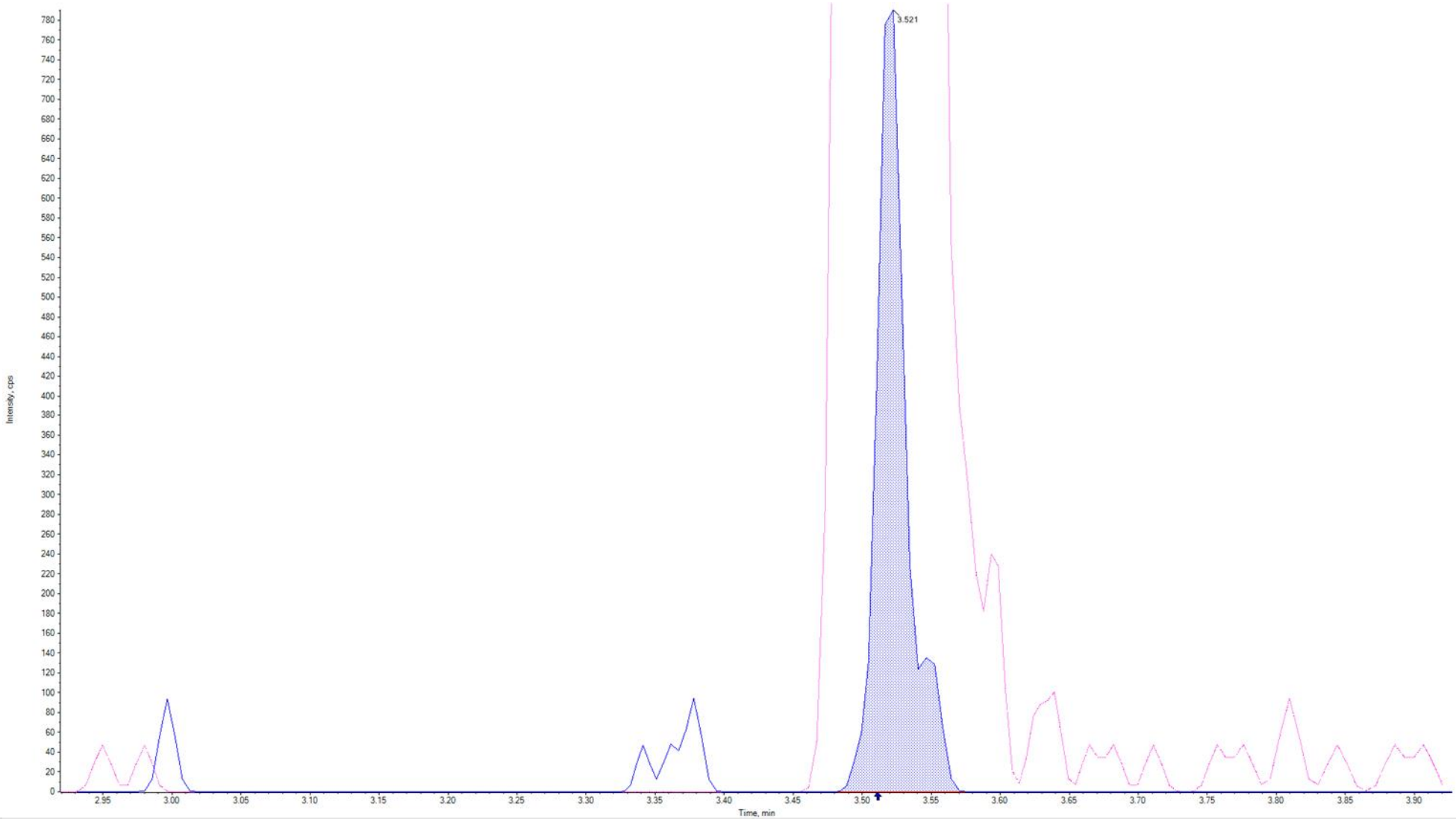
PFNA_2
Sample: L2470744-13 S/N:17.8 Points Across peak:21



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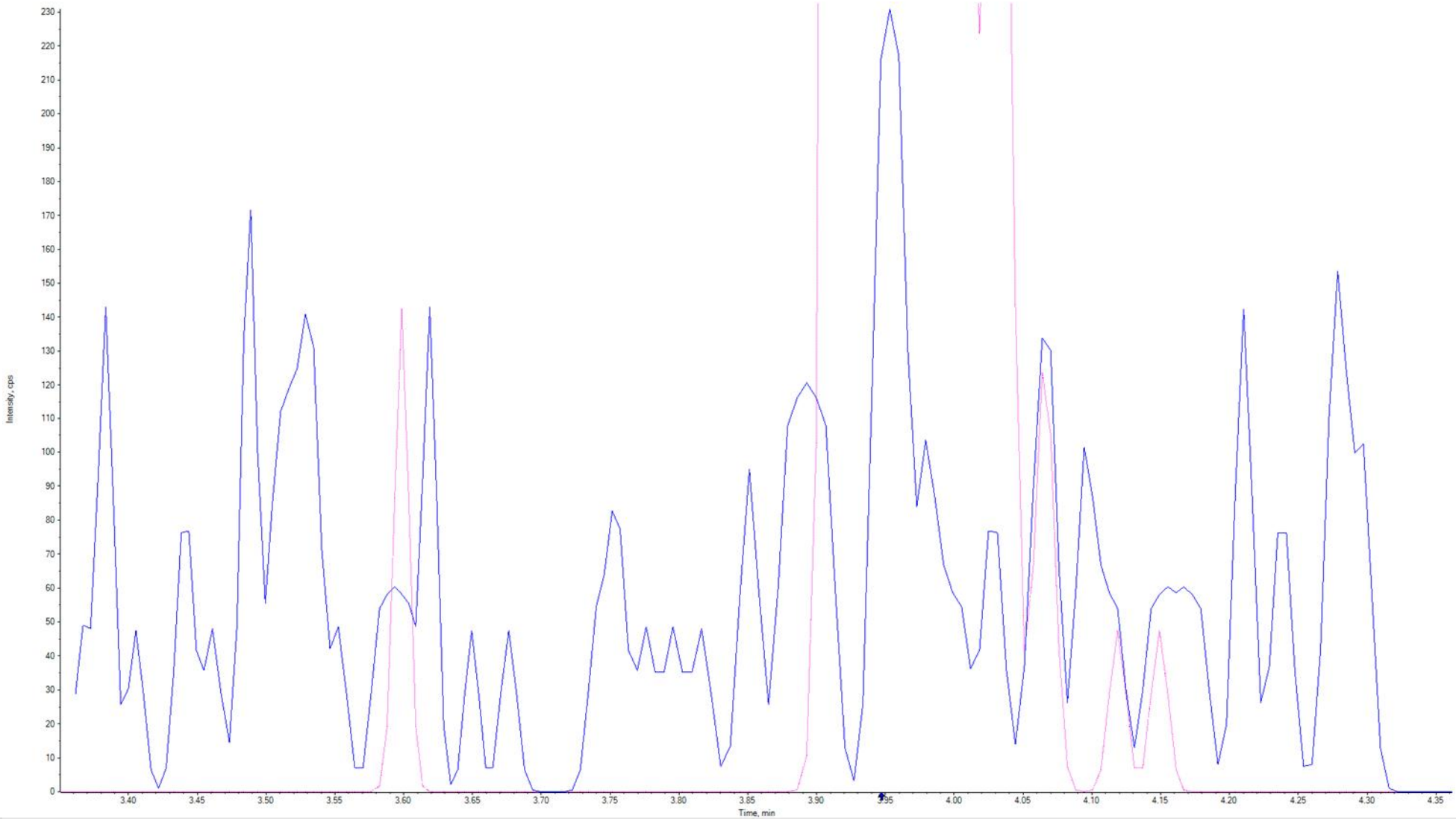
PFDA
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



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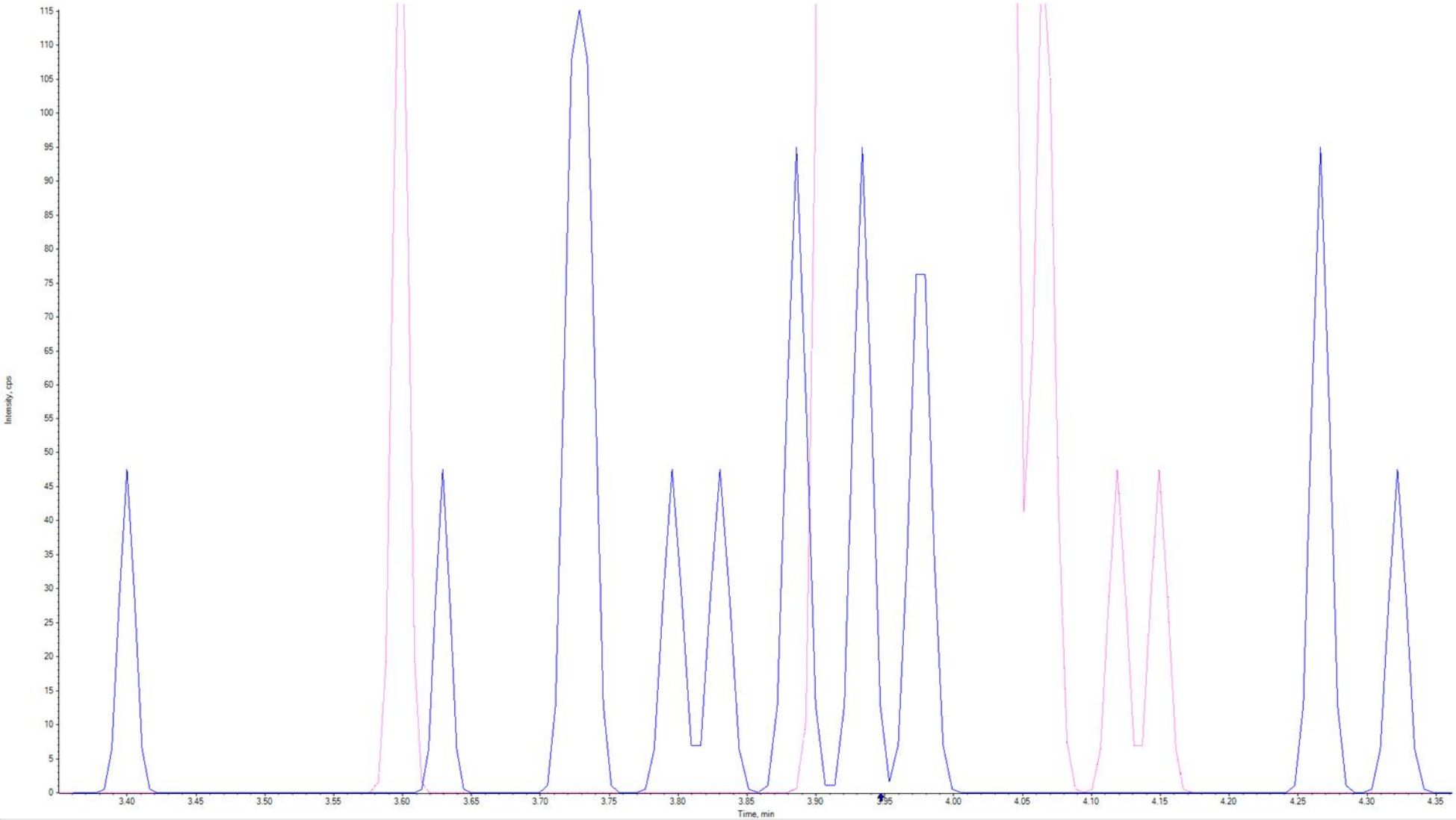
PFDA_2
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



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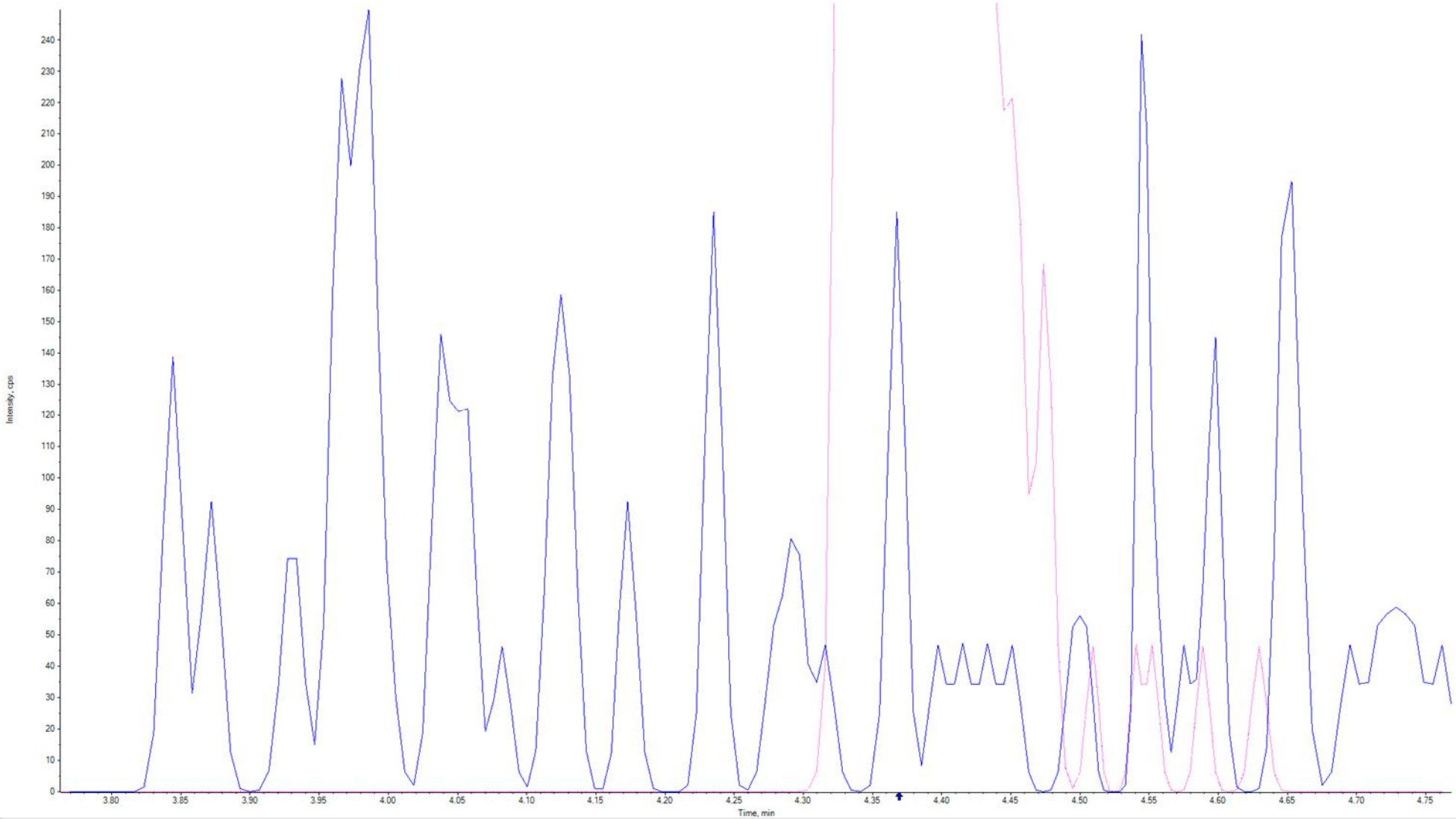
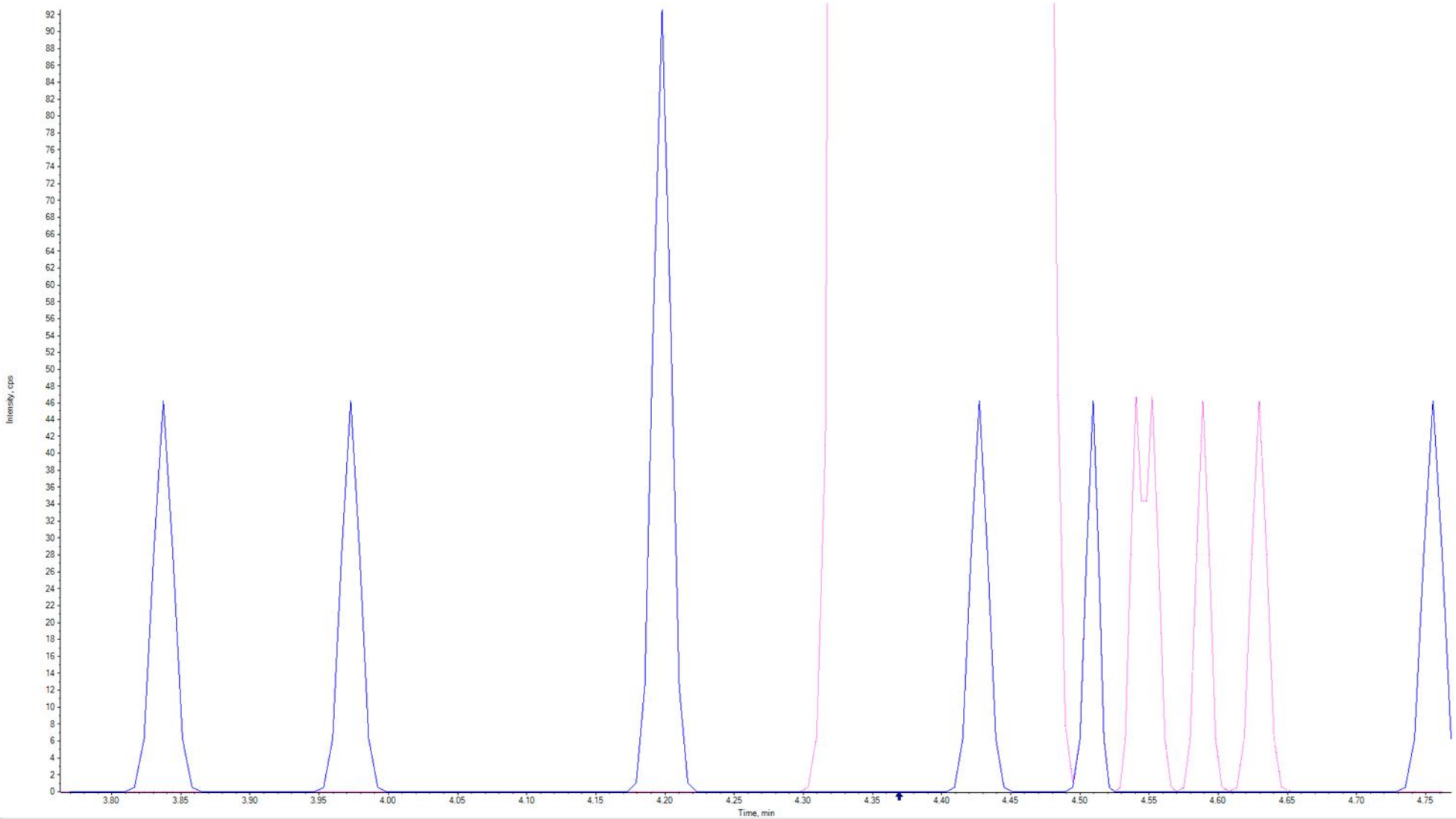
PFUnA
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_40.wiff2_7
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFUnA_2
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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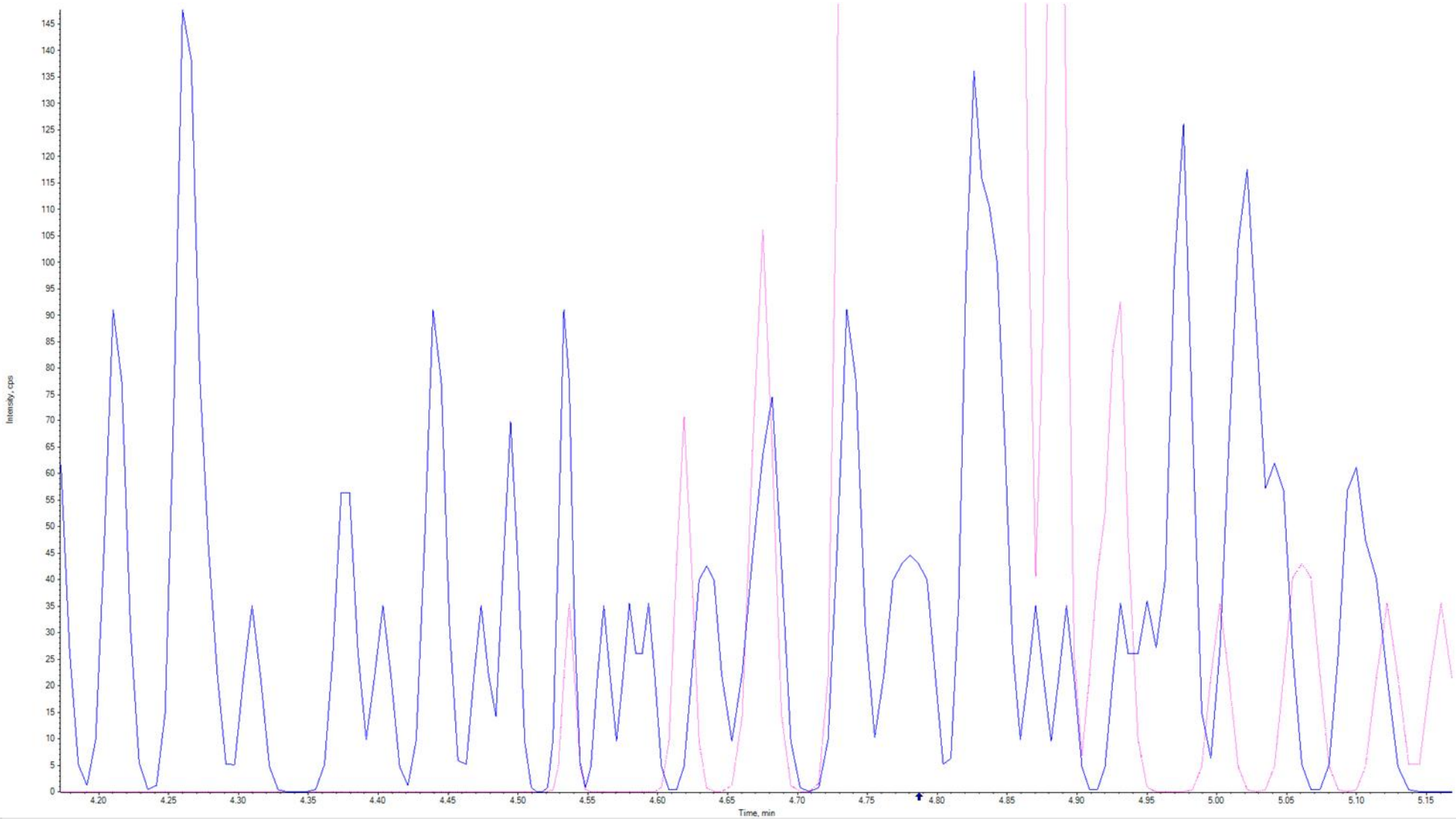
Generated: 12/20/2024 10:43:43 AM

PFDoA
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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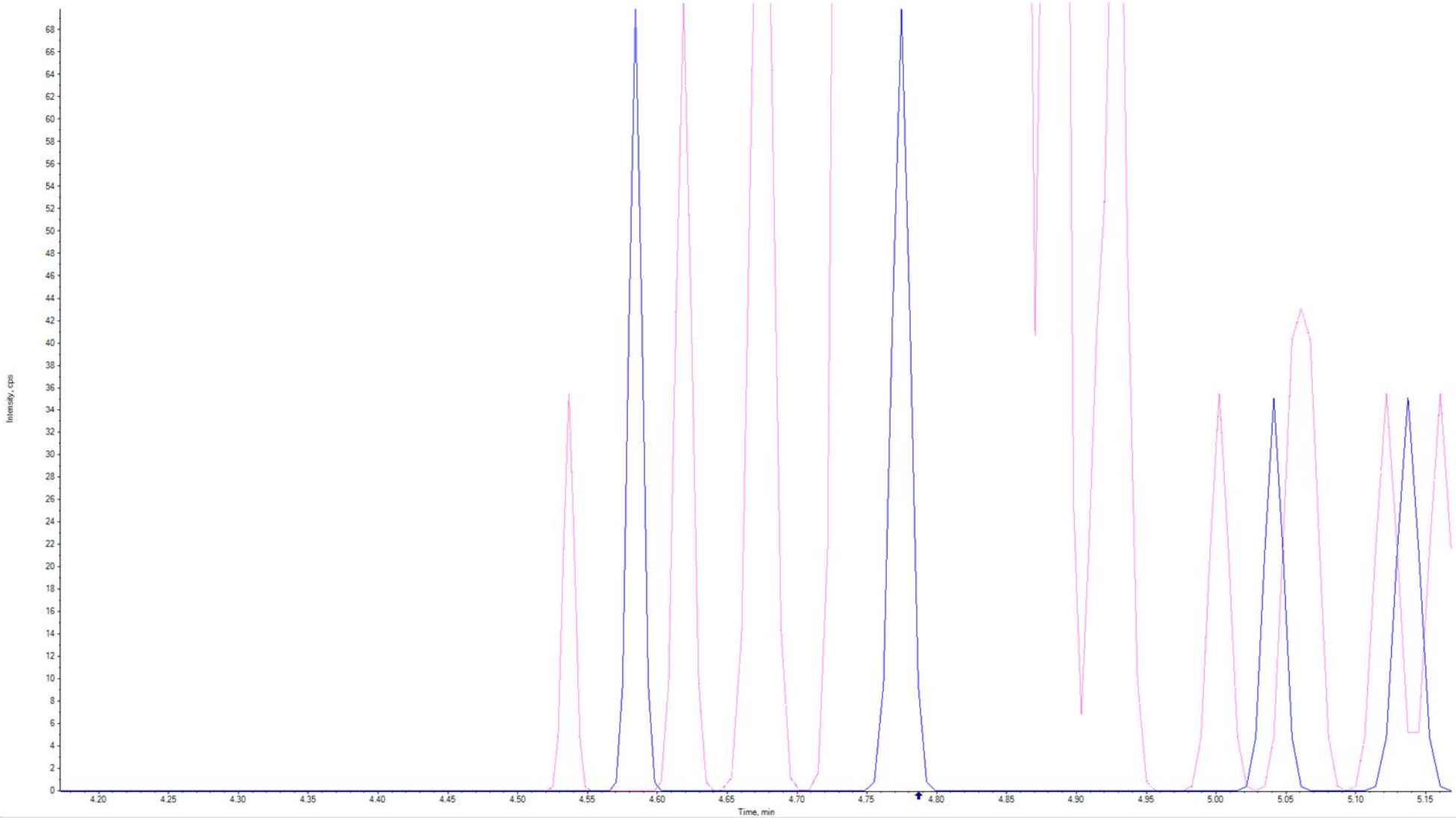
PFDoA_2
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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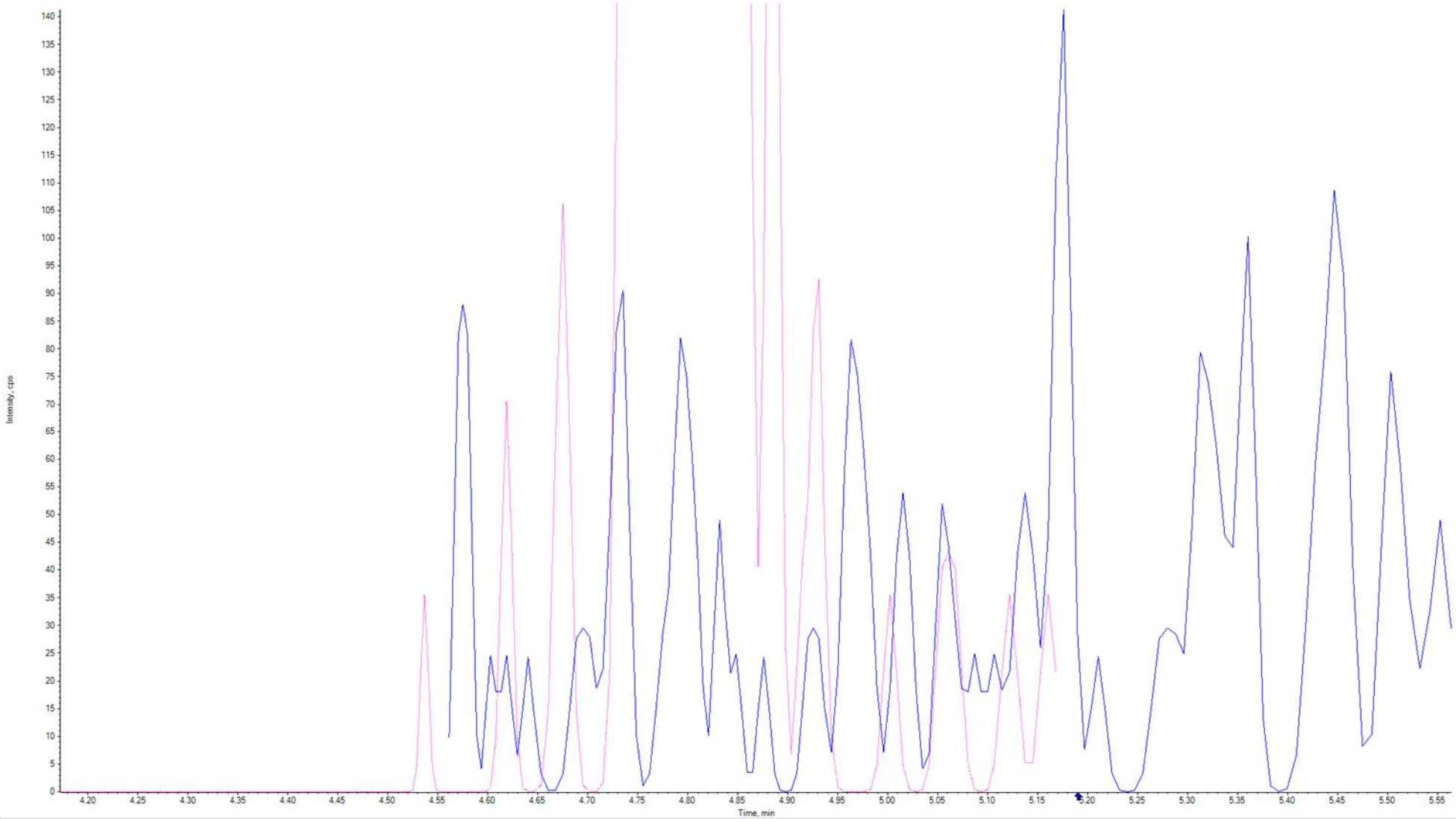
Generated: 12/20/2024 10:43:43 AM

PFTrDA
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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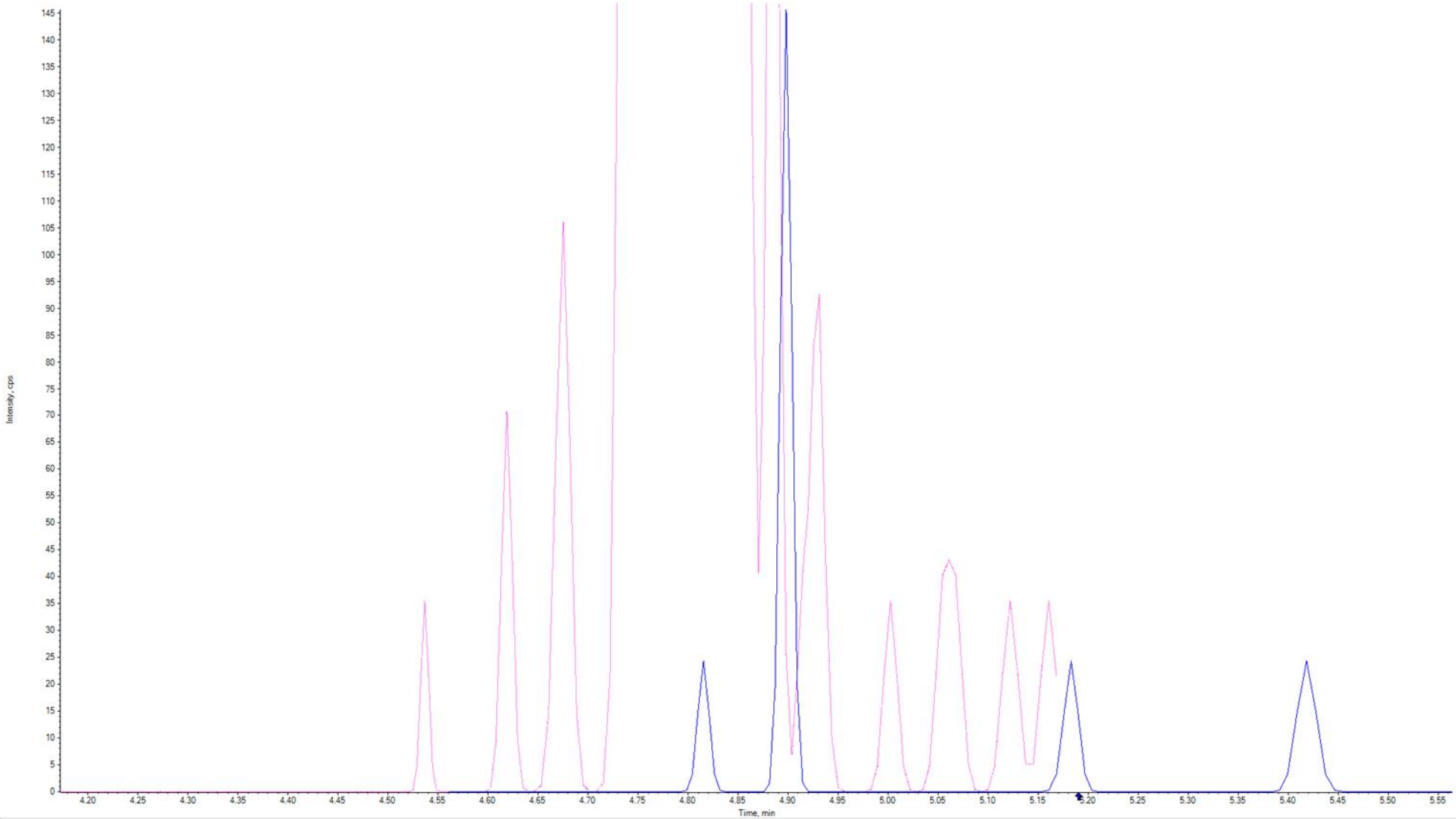
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFTrDA_2
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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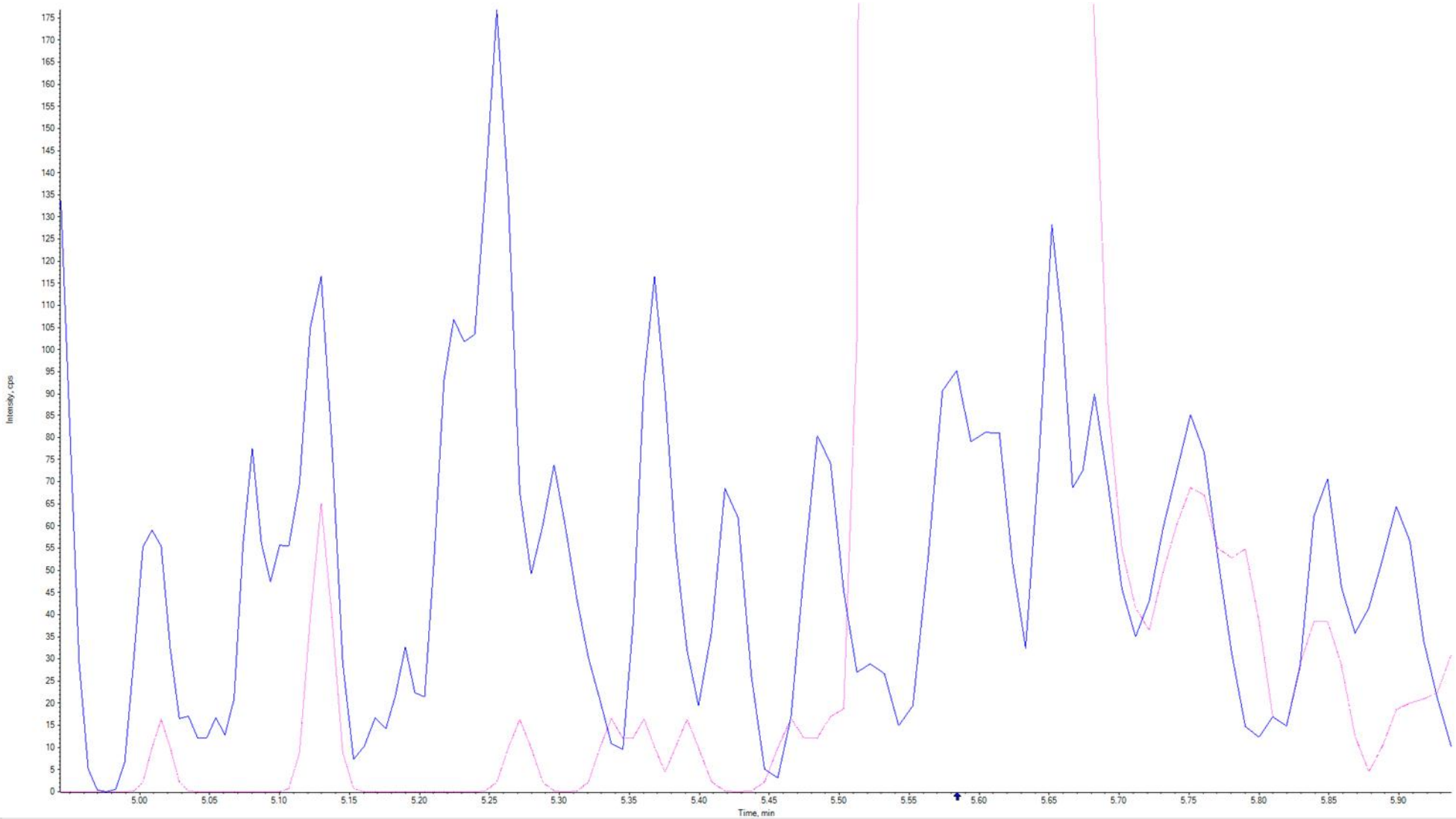
PFTeDA
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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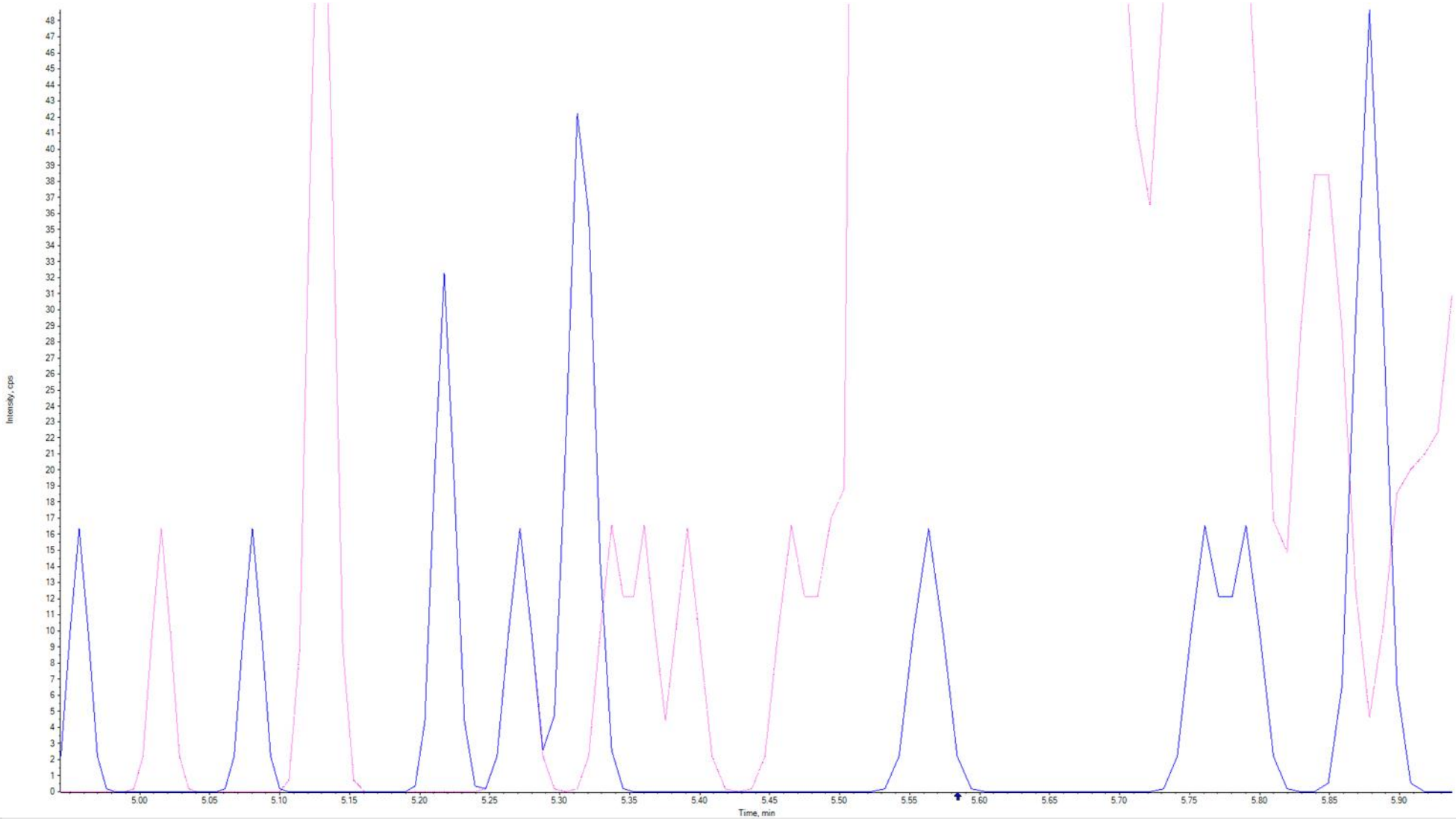
Generated: 12/20/2024 10:43:43 AM

PFTeDA_2
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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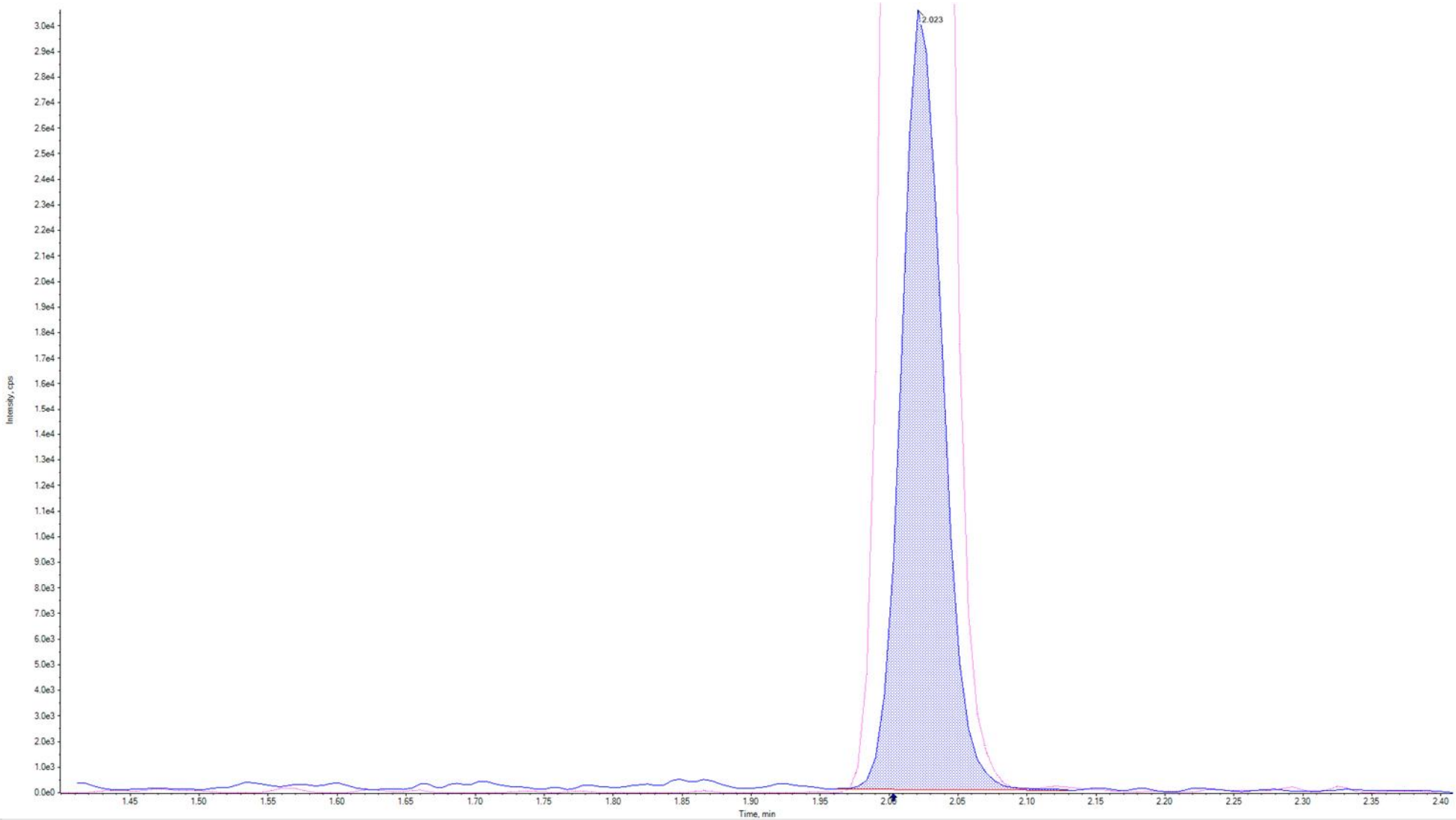
Generated: 12/20/2024 10:43:43 AM

PFBS
Sample: L2470744-13 S/N:764.5 Points Across peak:30



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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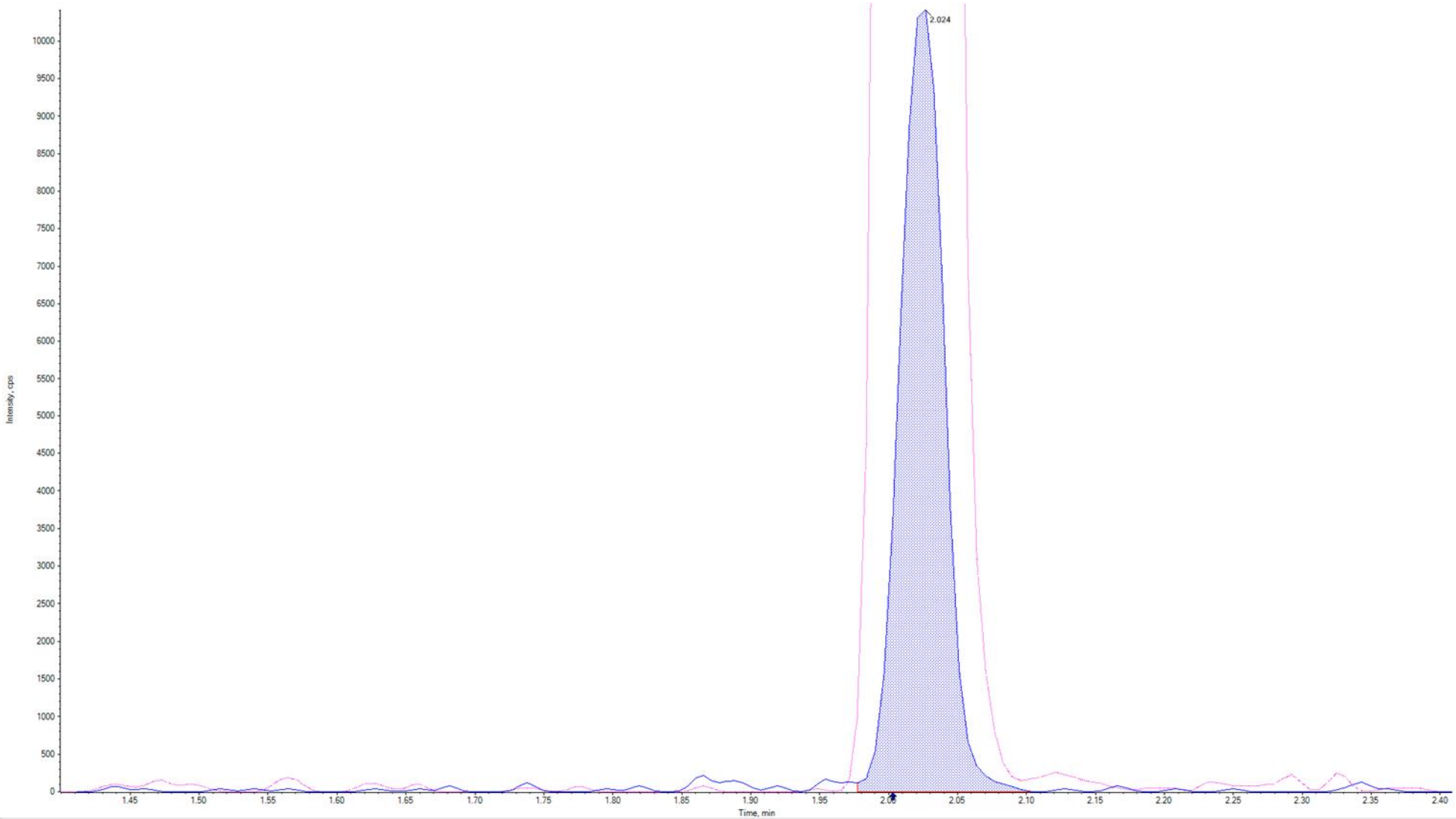
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFBS_2
Sample: L2470744-13 S/N:261.0 Points Across peak:22



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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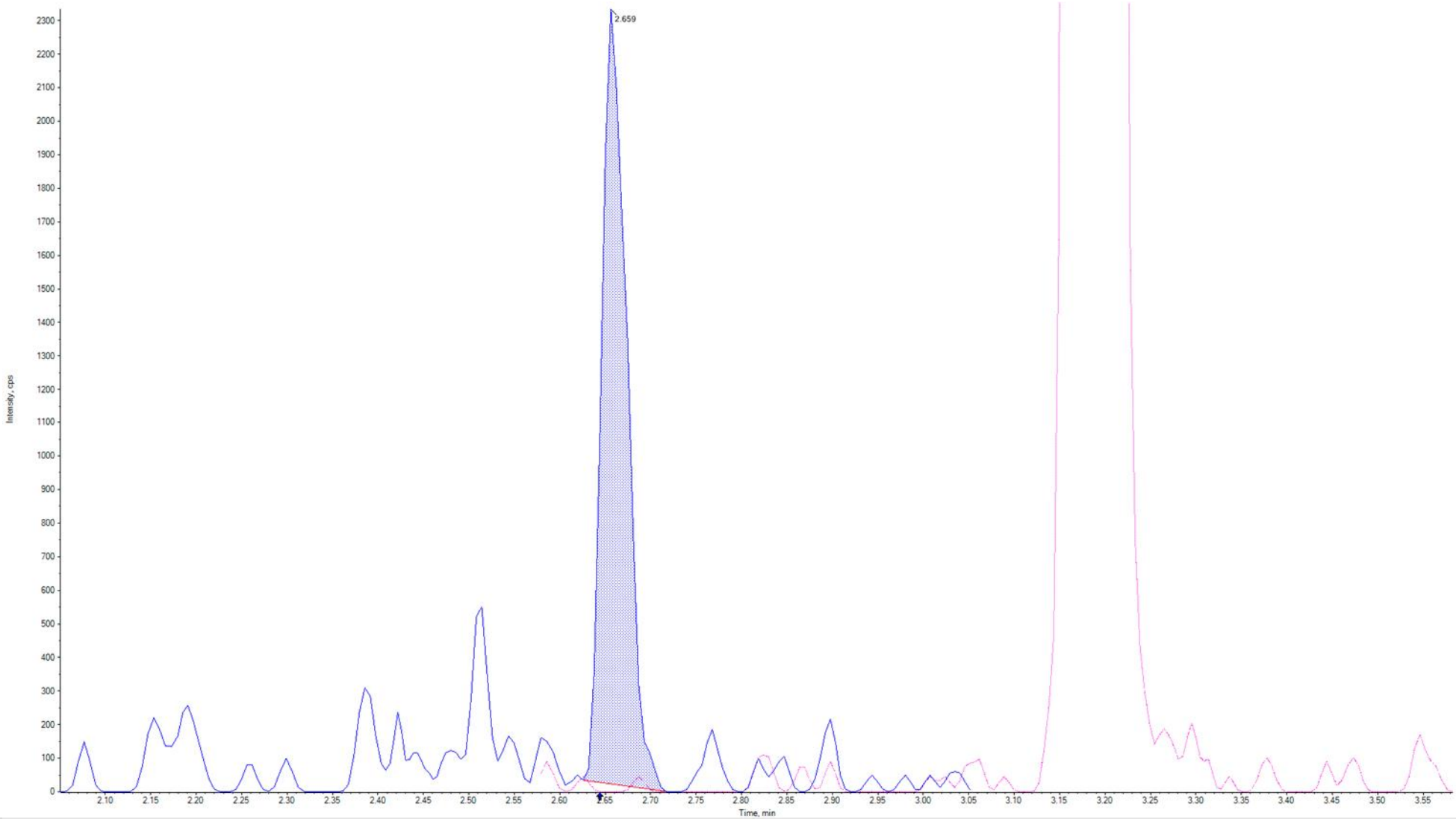
Generated: 12/20/2024 10:43:43 AM

PFPeS
Sample: L2470744-13 S/N:46.3 Points Across peak:16



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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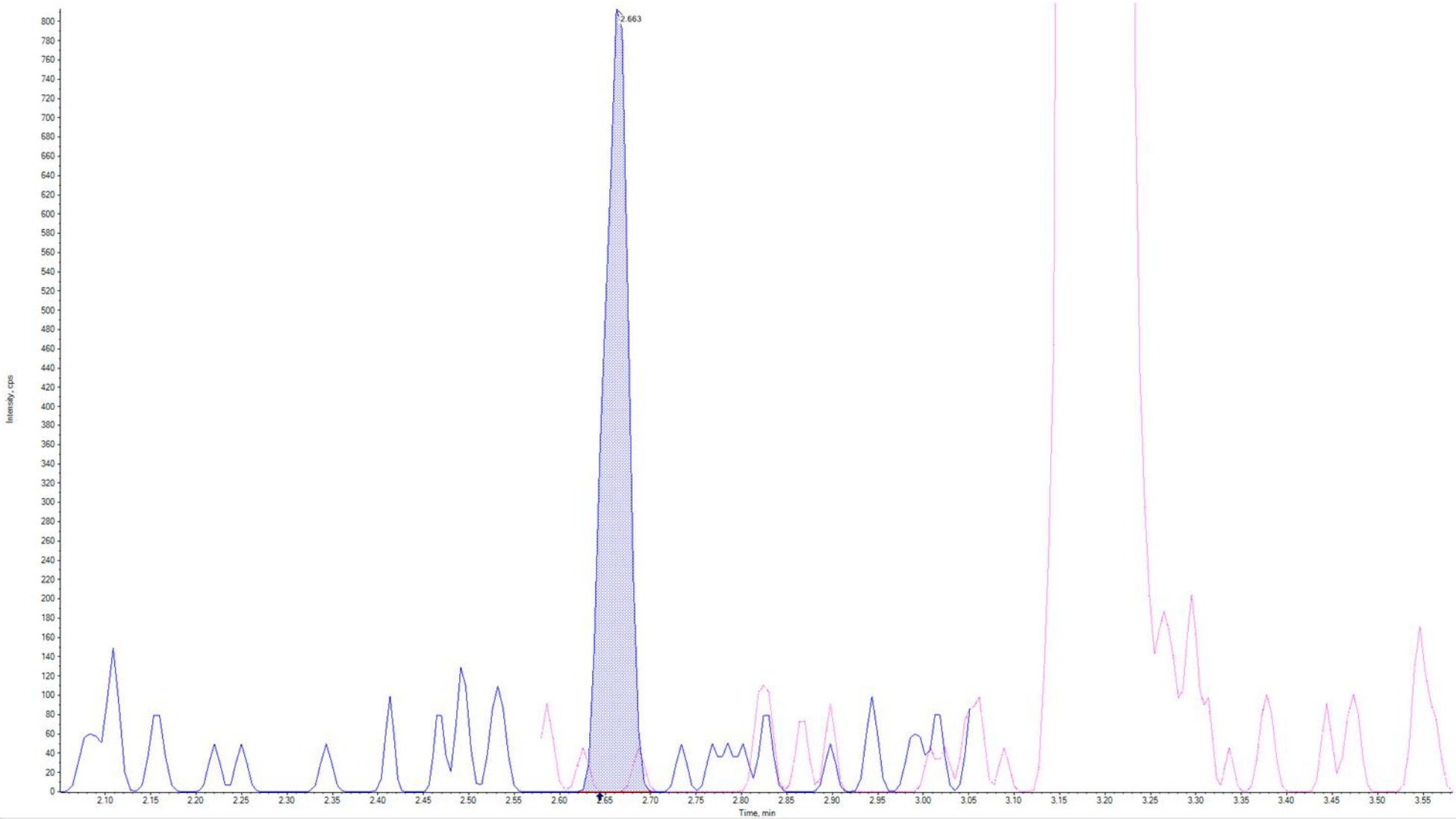
PFPeS_2
Sample: L2470744-13 S/N:16.3 Points Across peak:15



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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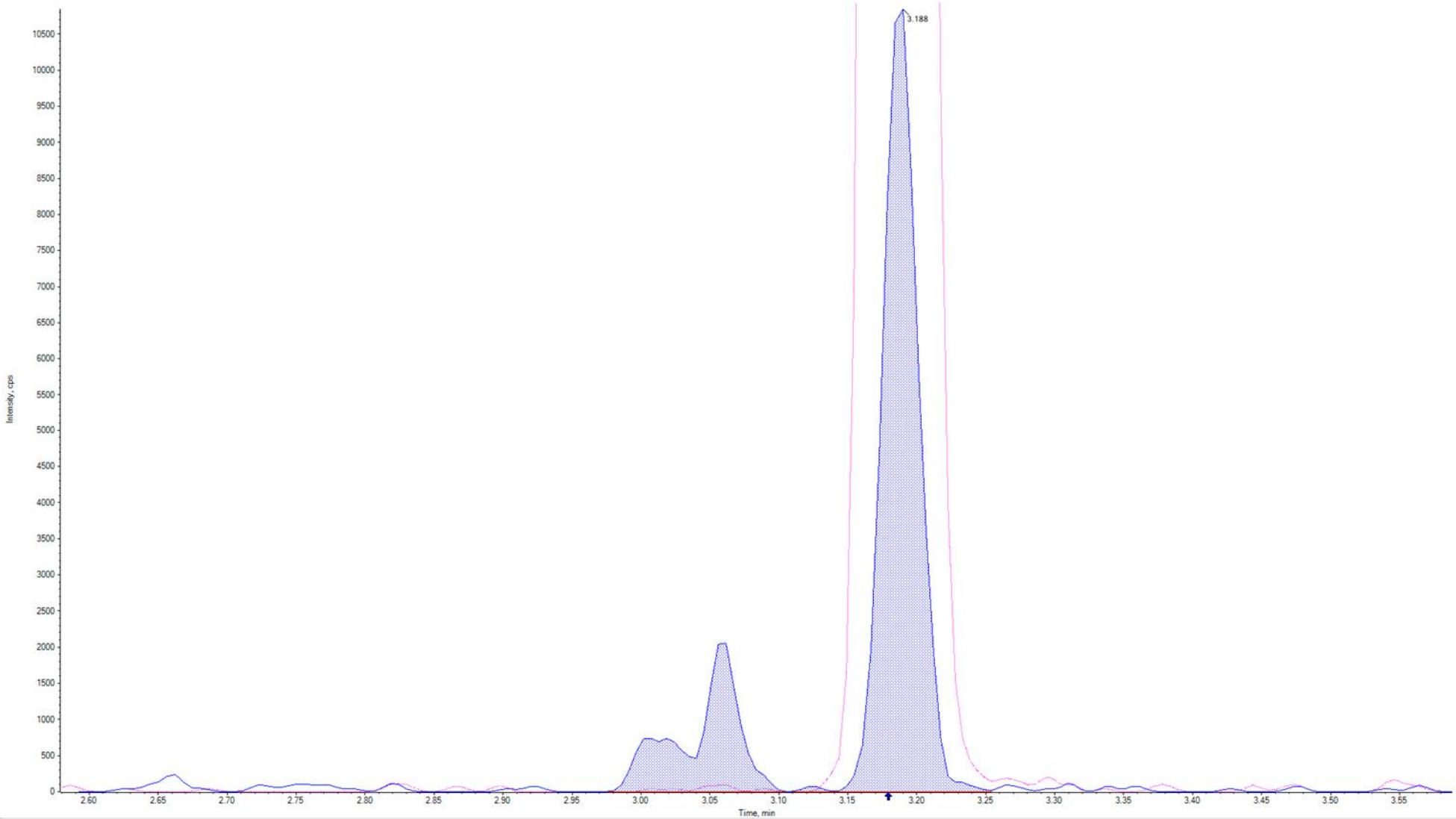
Generated: 12/20/2024 10:43:43 AM

PFHxS
Sample: L2470744-13 S/N:244.6 Points Across peak:53



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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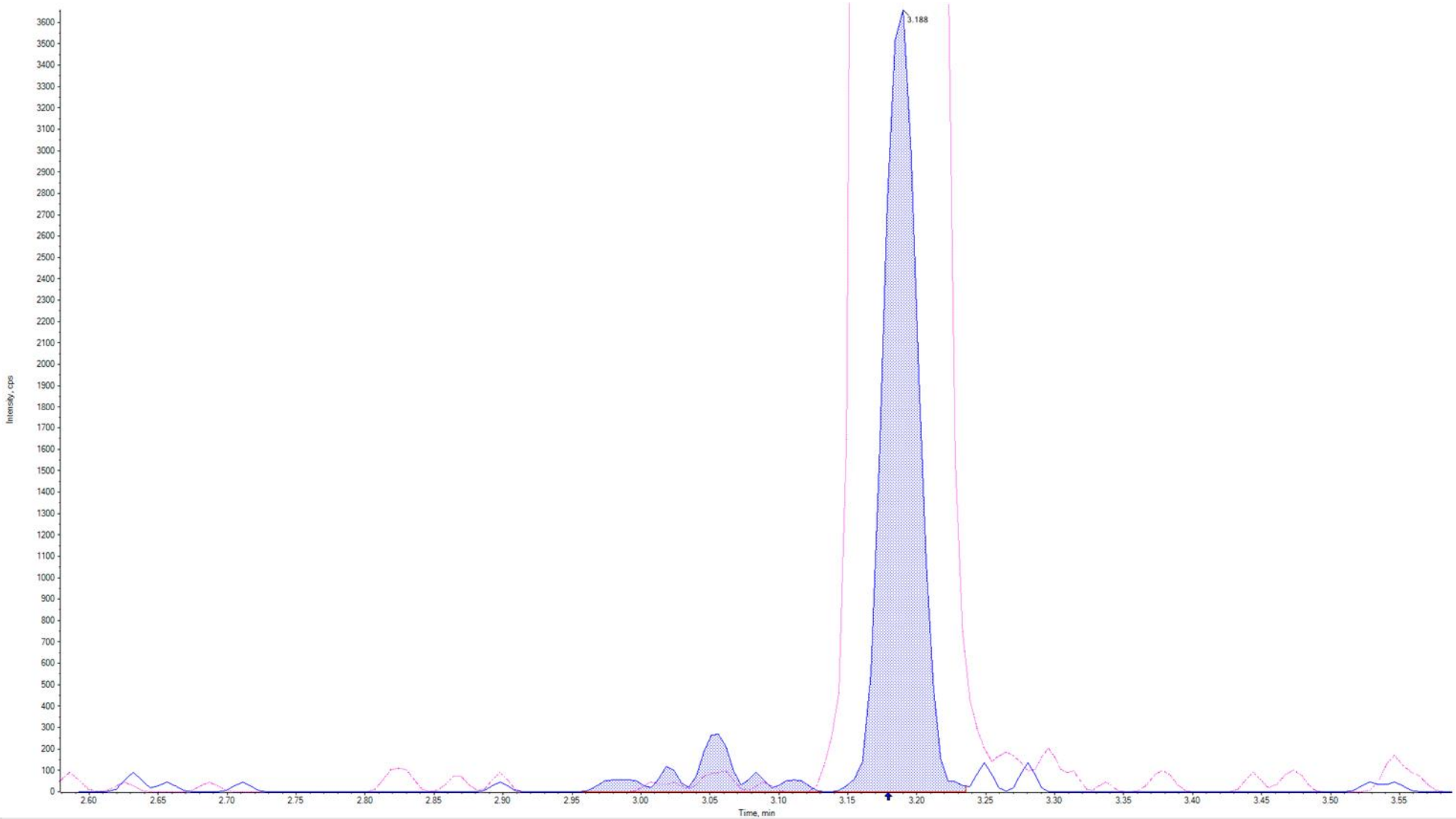
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFHxS_2
Sample: L2470744-13 S/N:82.5 Points Across peak:52



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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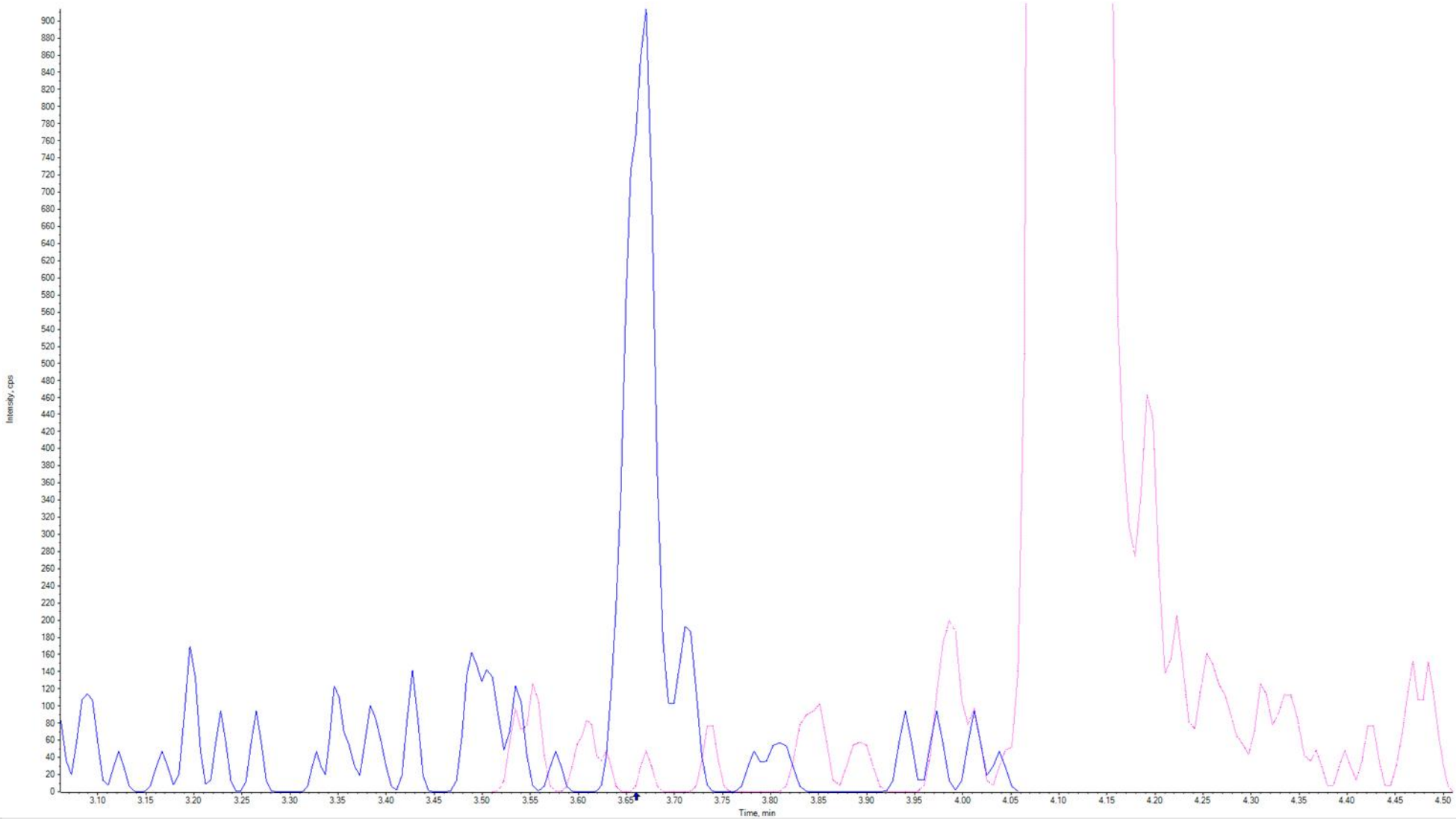
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFHpS
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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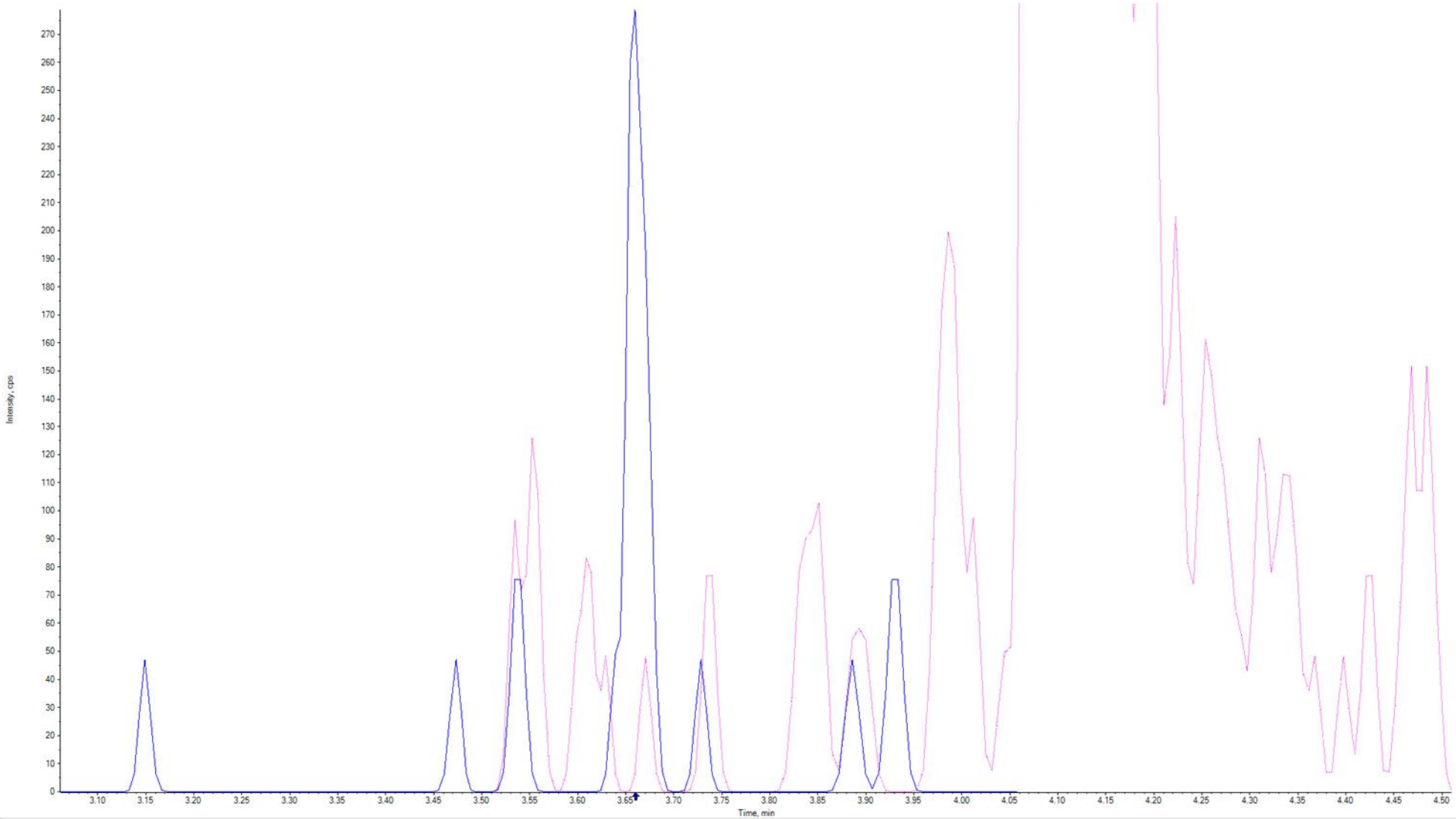
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

PFHpS_2
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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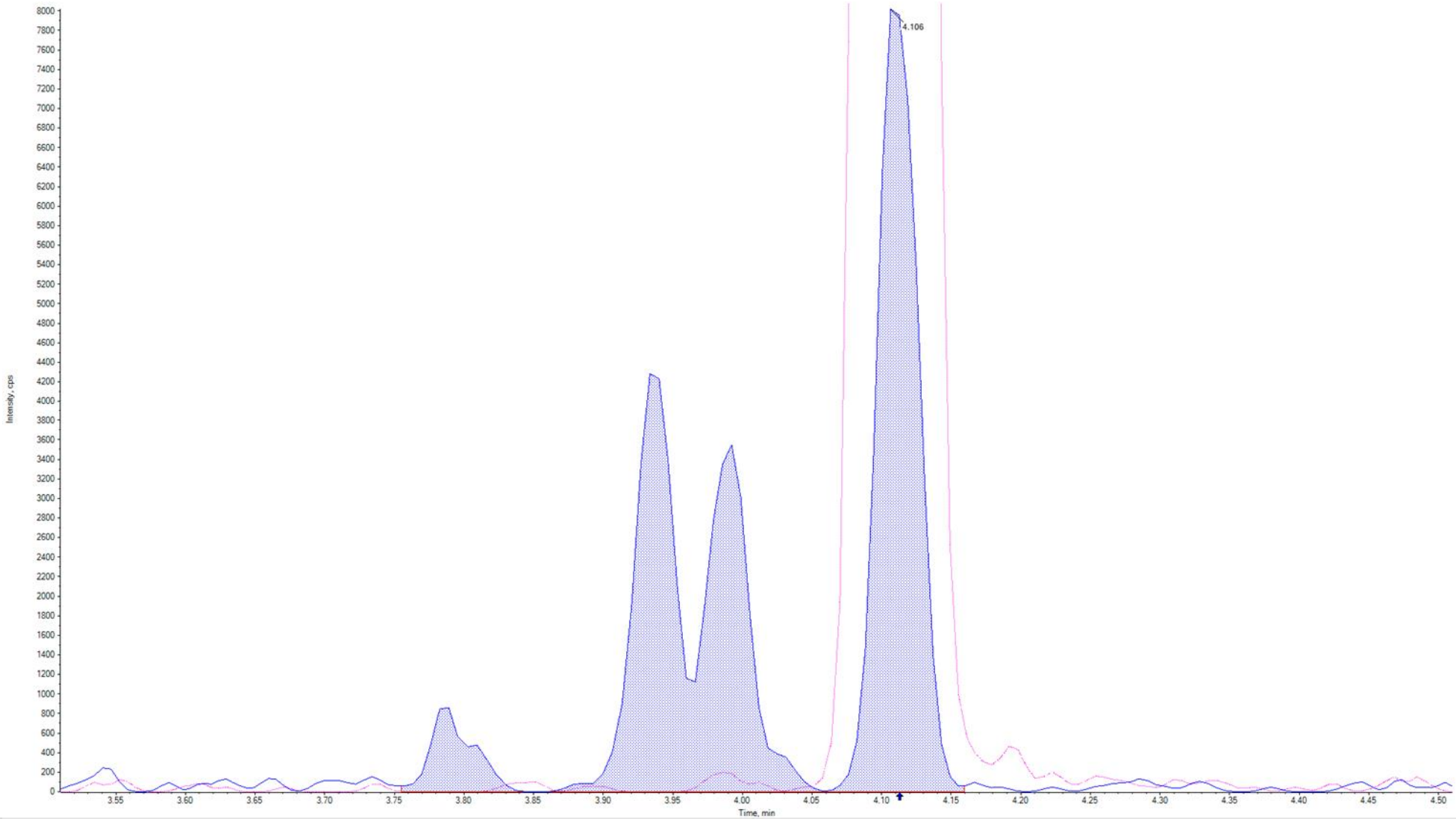
Generated: 12/20/2024 10:43:43 AM

PFOS
Sample: L2470744-13 S/N:124.2 Points Across peak:64



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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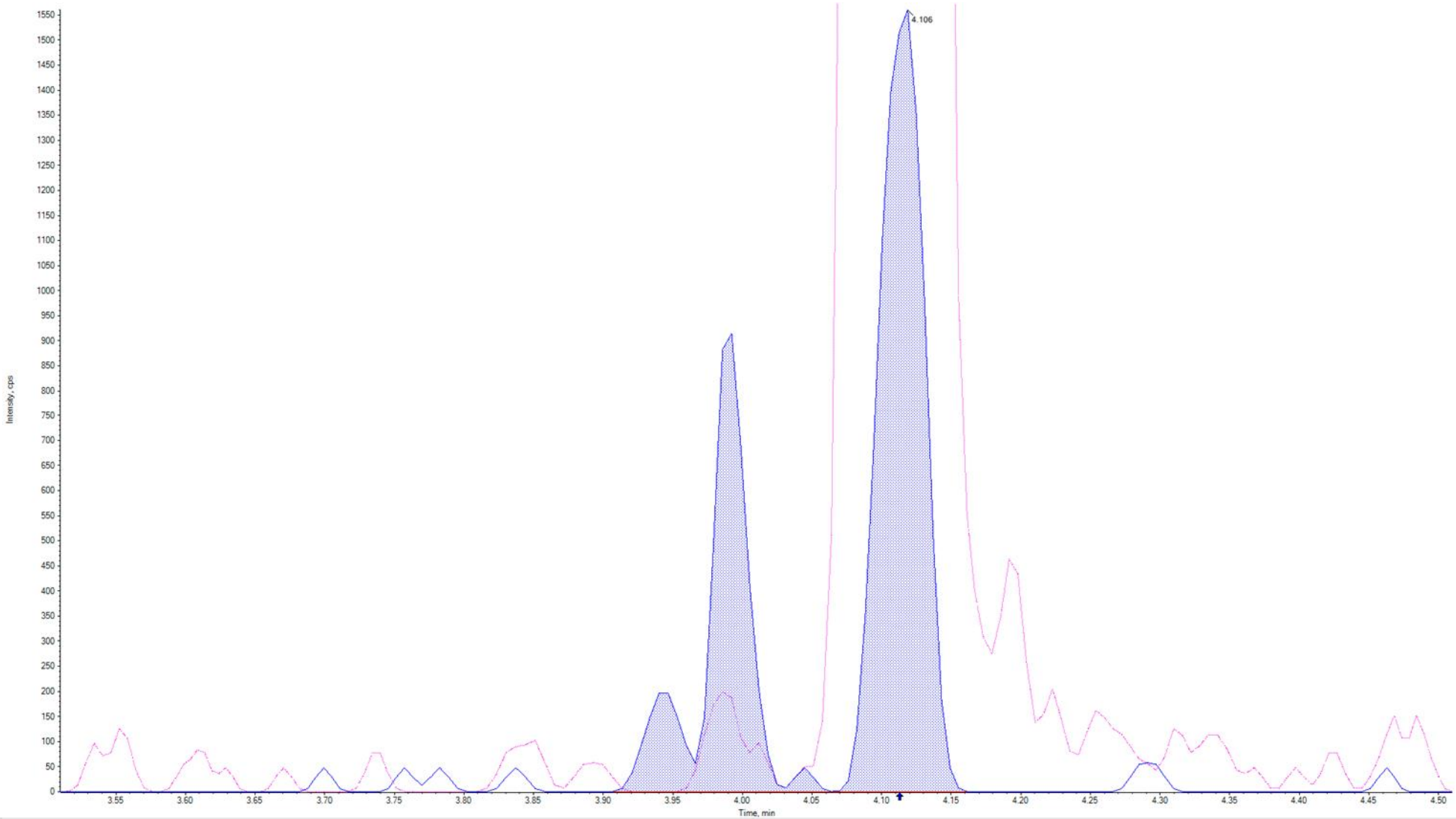
PFOS_2
Sample: L2470744-13 S/N:31.3 Points Across peak:43



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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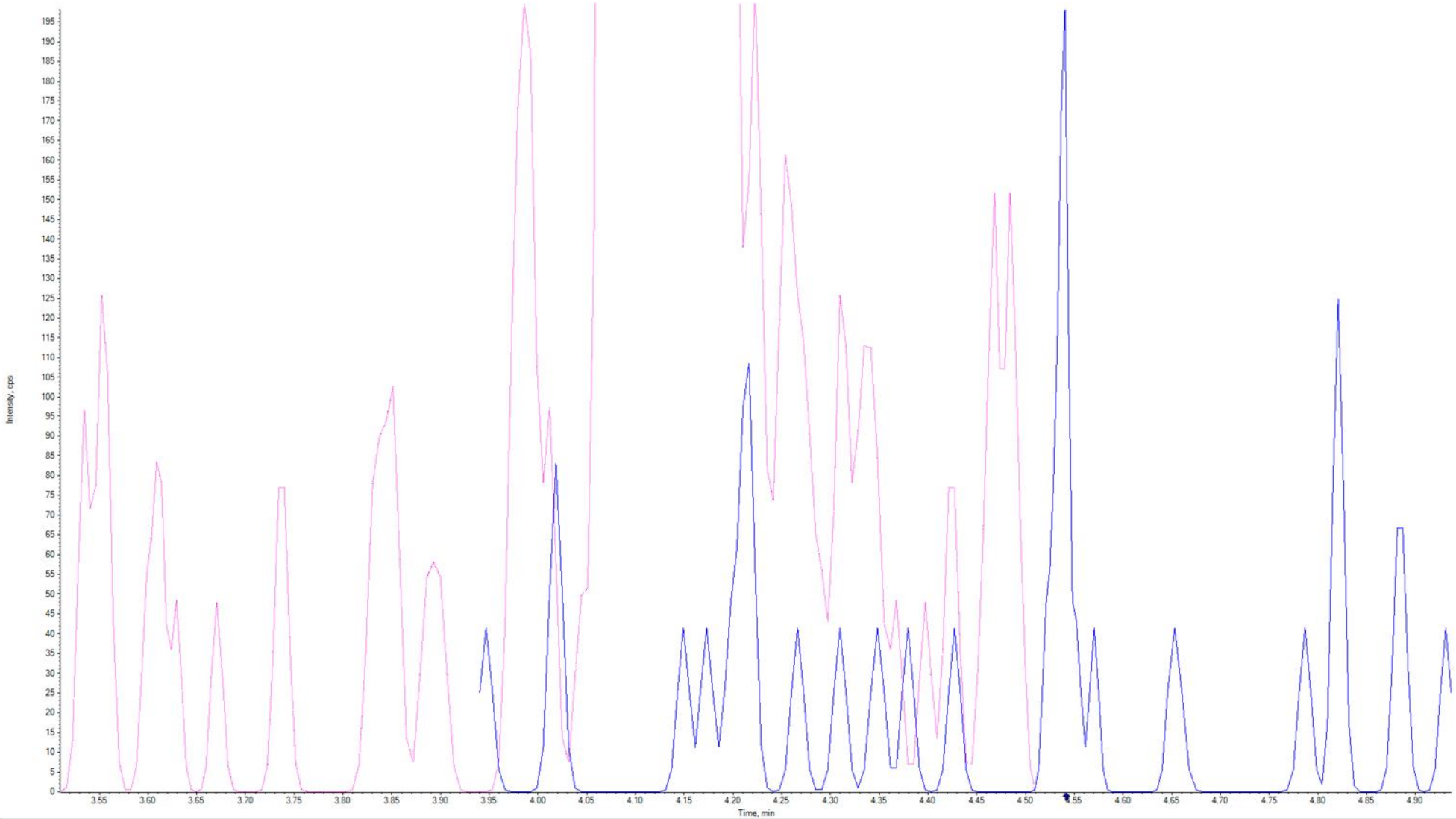
PFNS
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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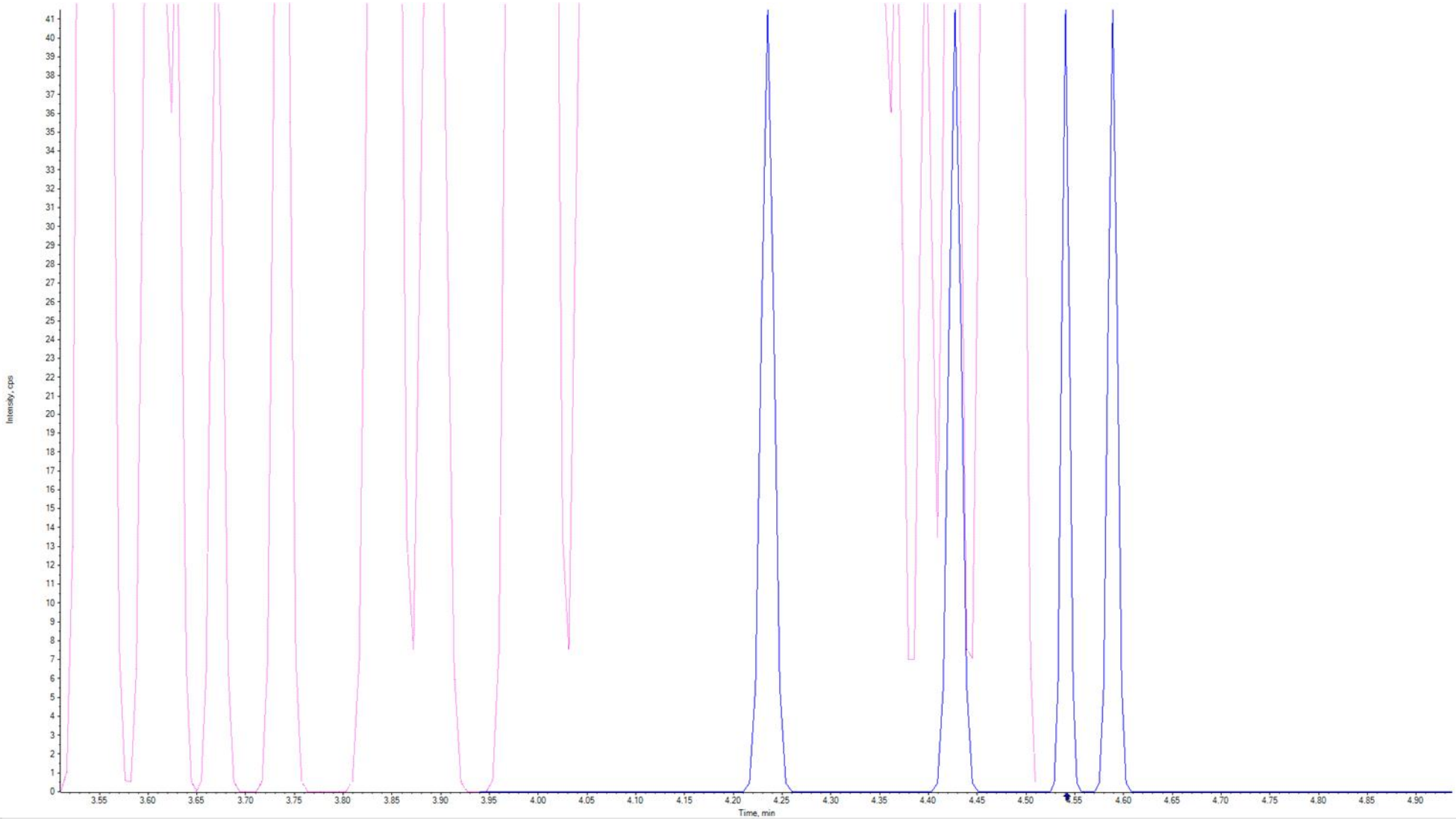
PFNS_2
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



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Alpha Analytical LLC
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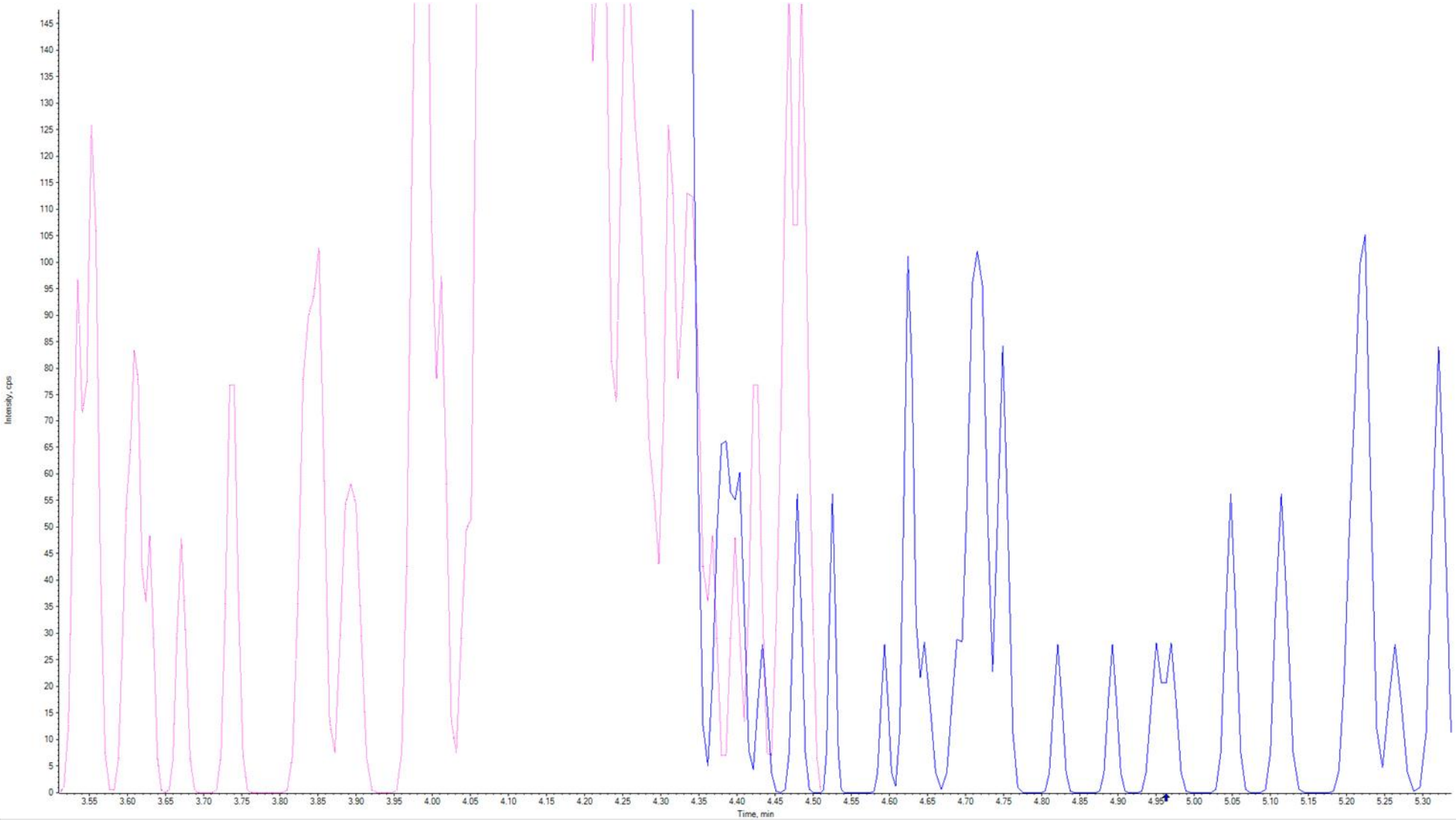
PFDS
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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PFDS_2
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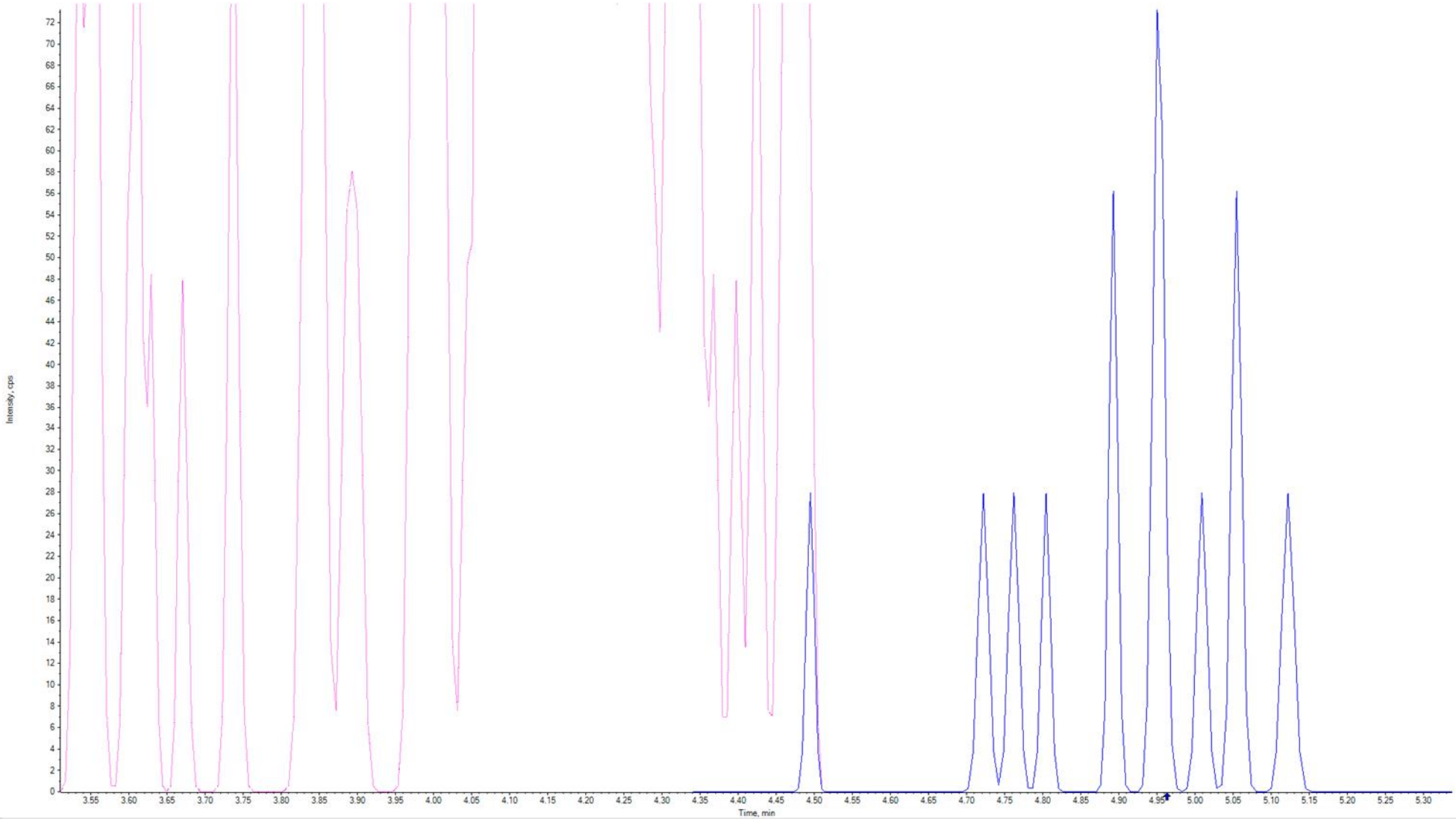

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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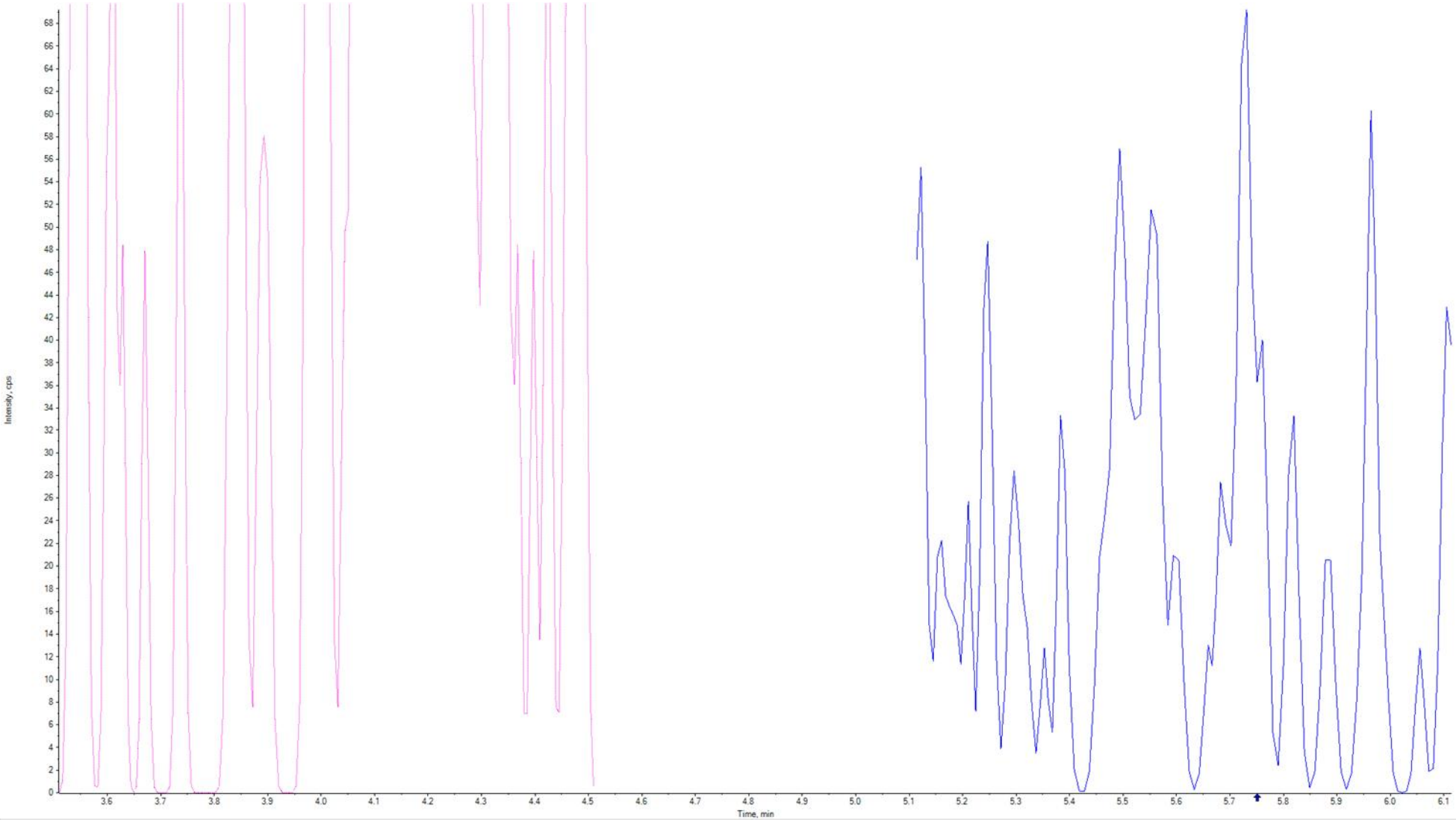
PFDoS
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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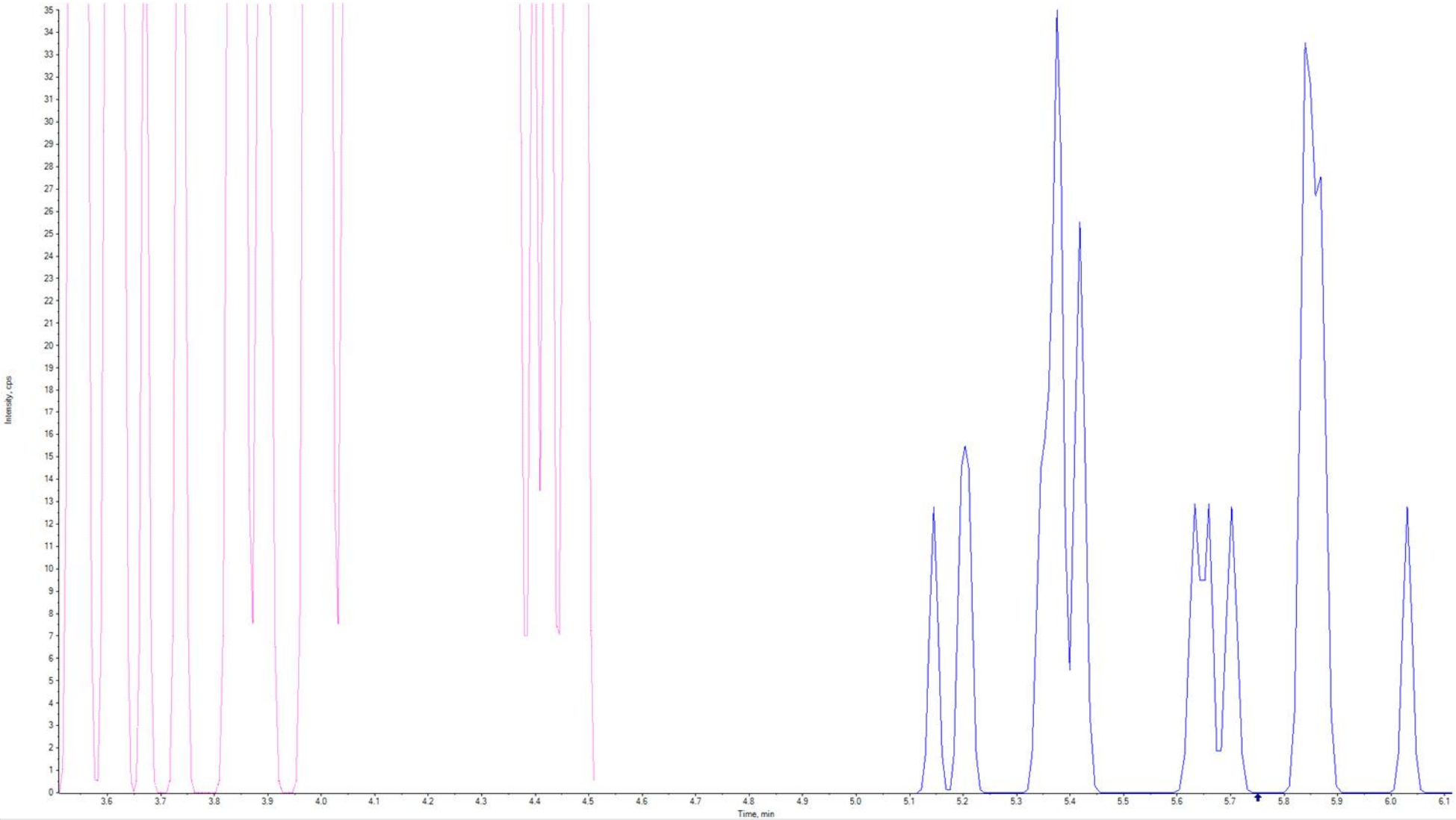
PFDoS_2
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



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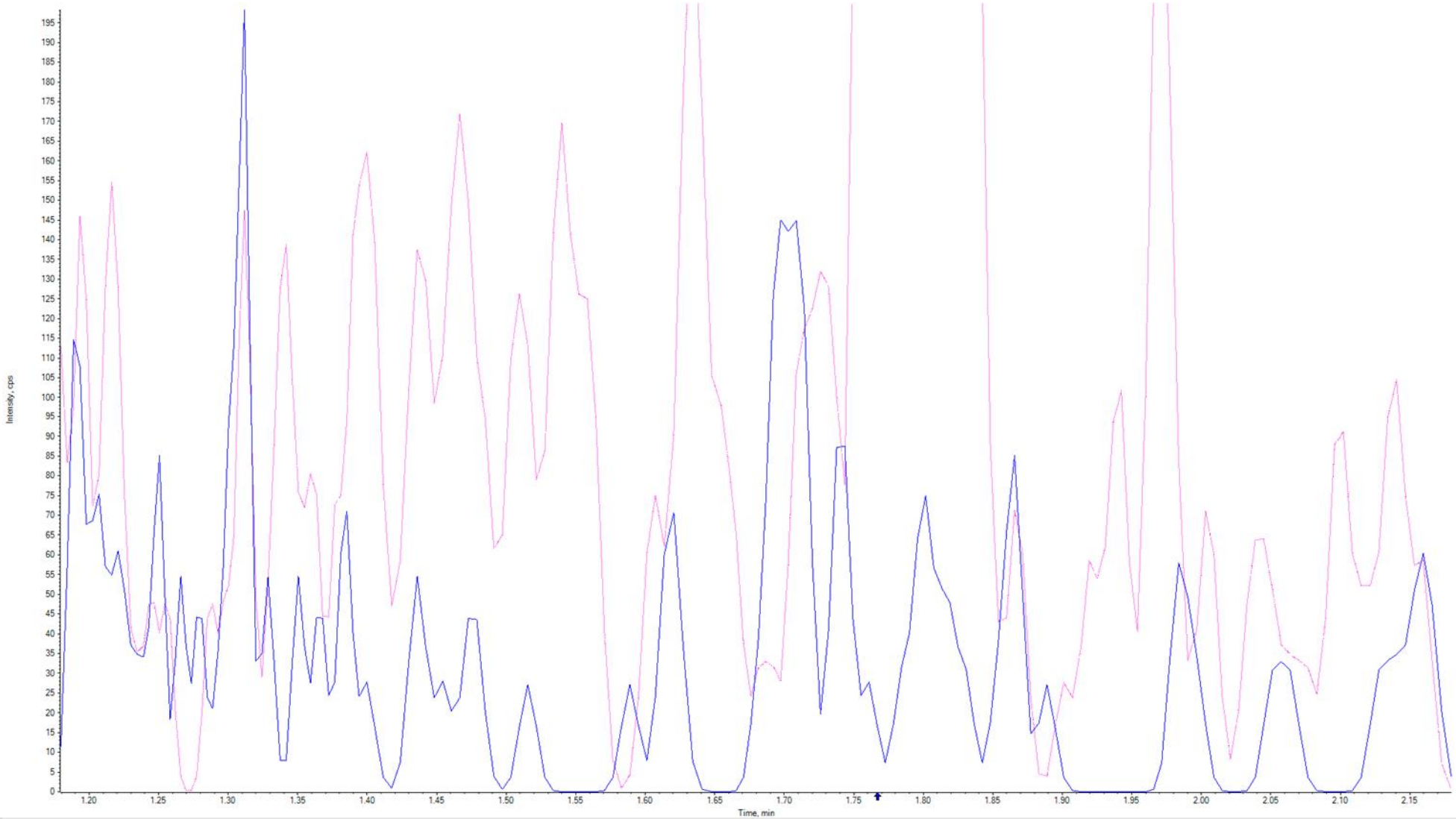
4:2FTS
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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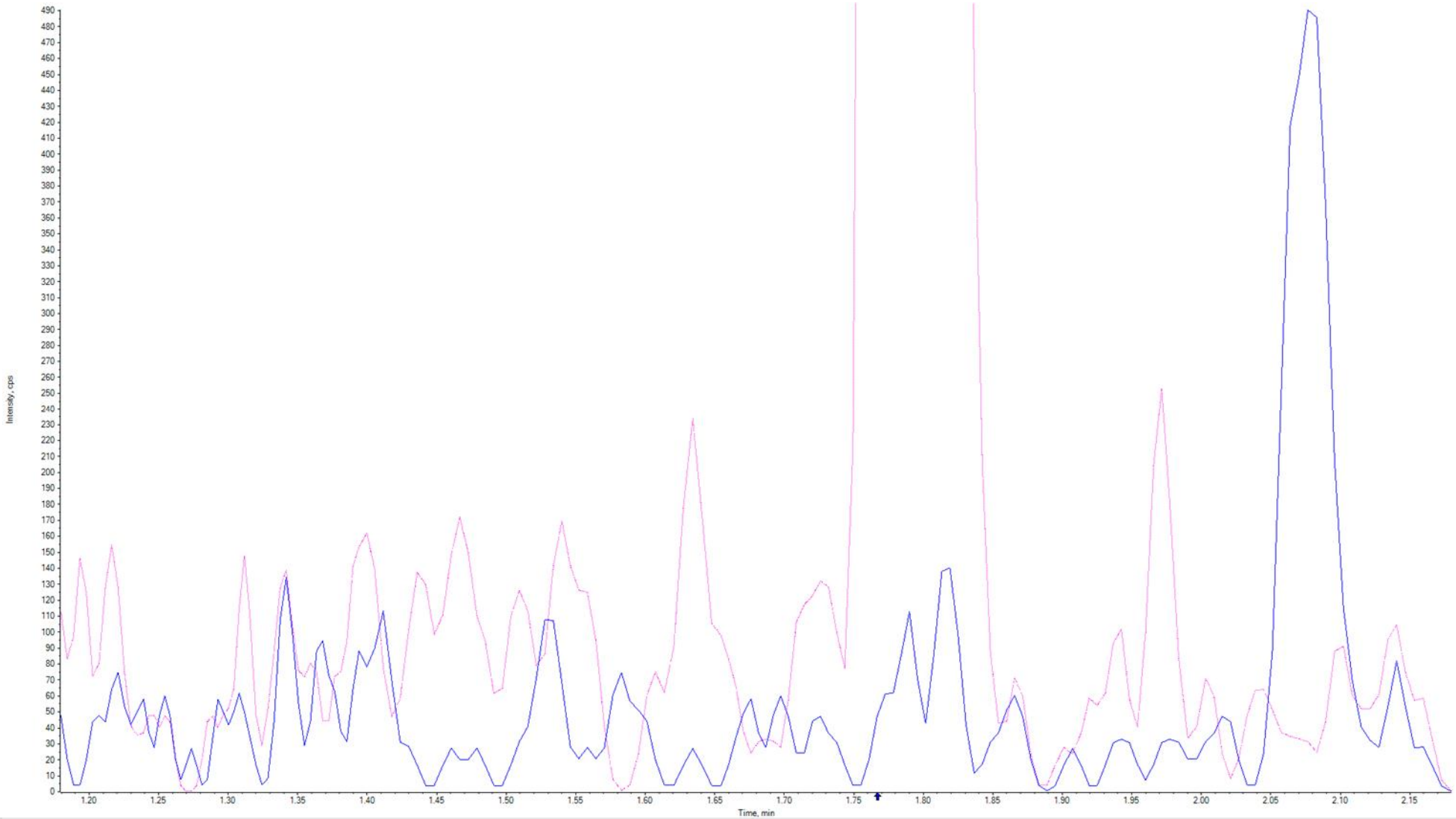
4:2FTS_2
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



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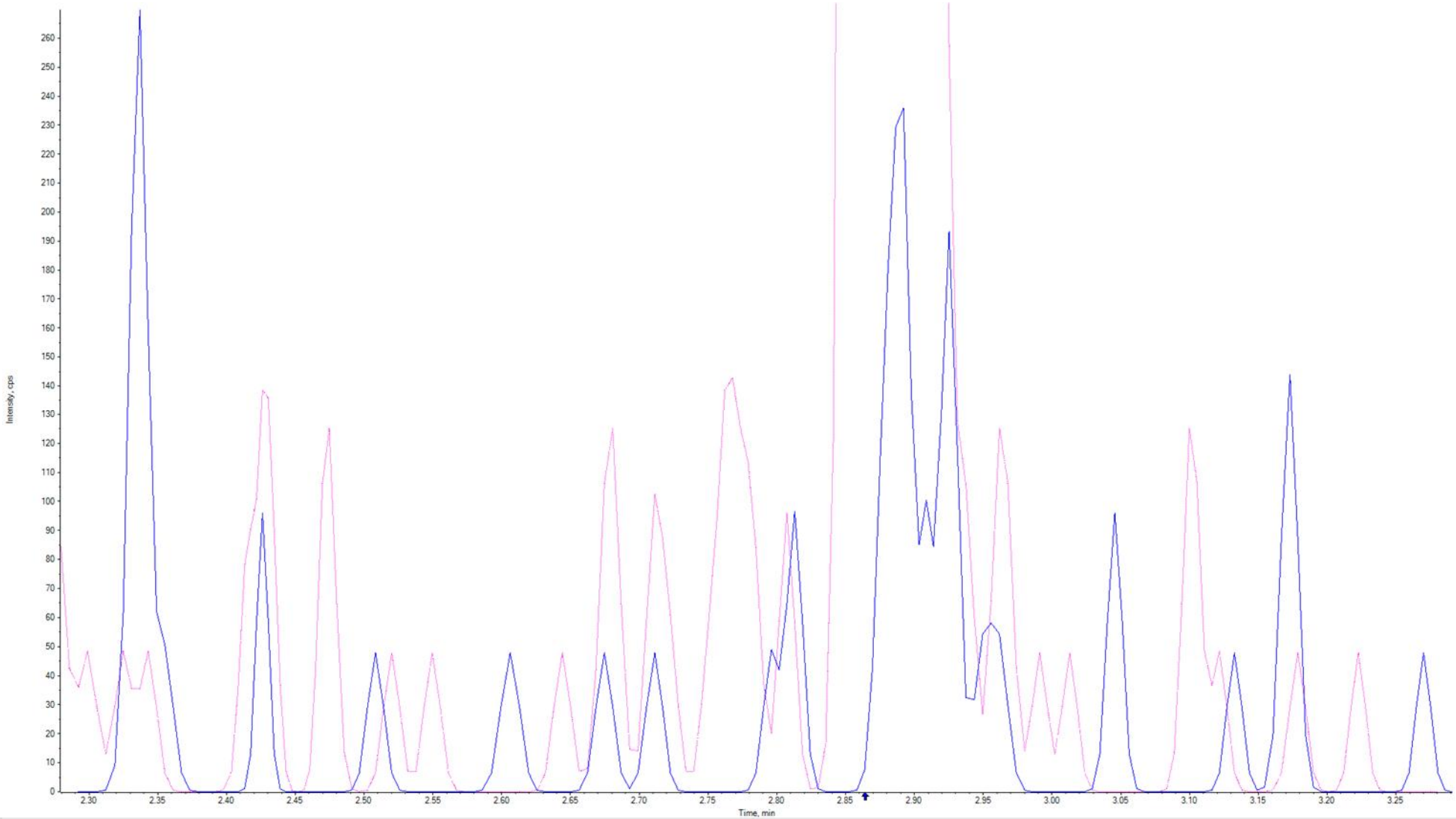
6:2FTS
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



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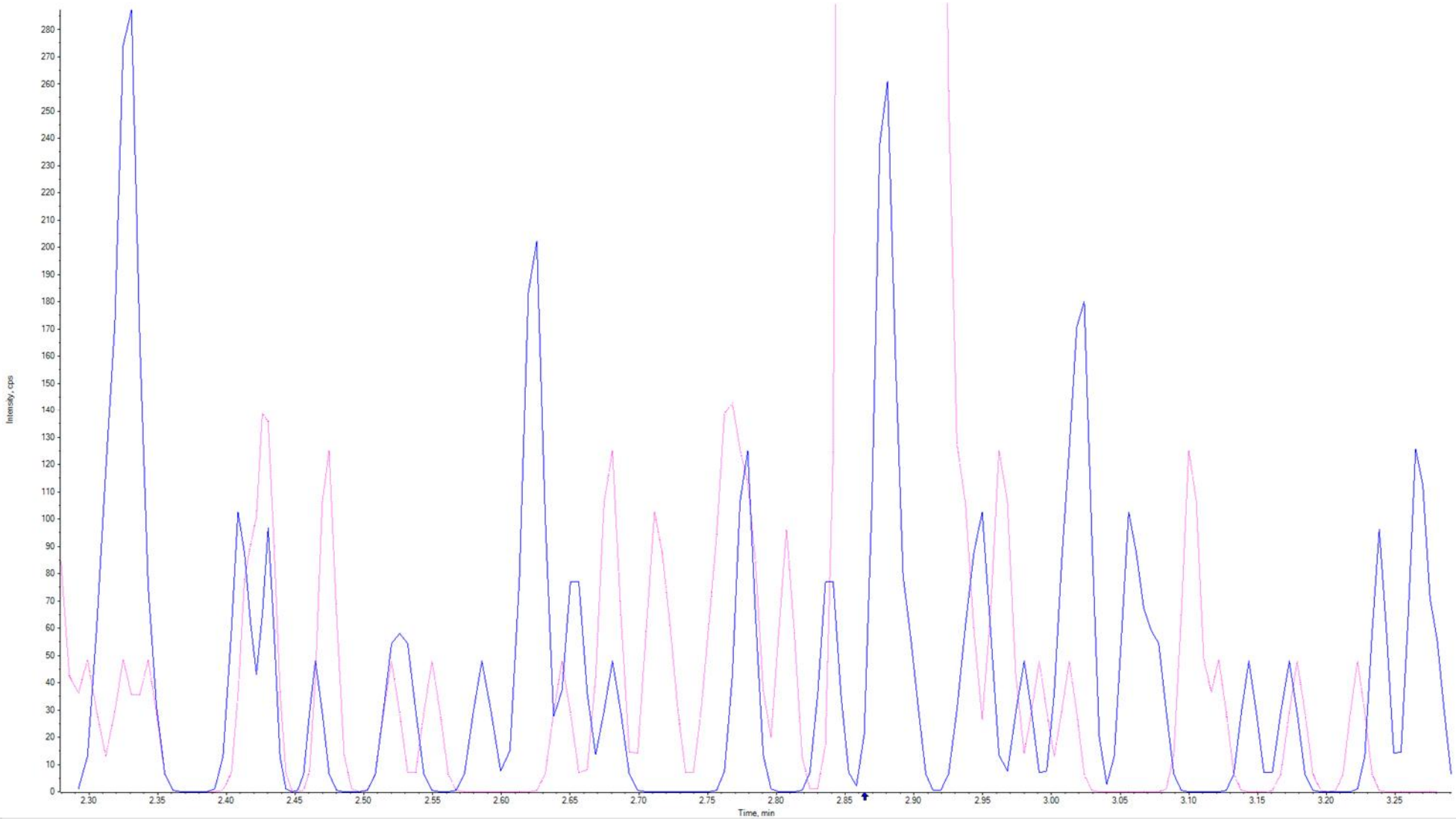
6:2FTS_2
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



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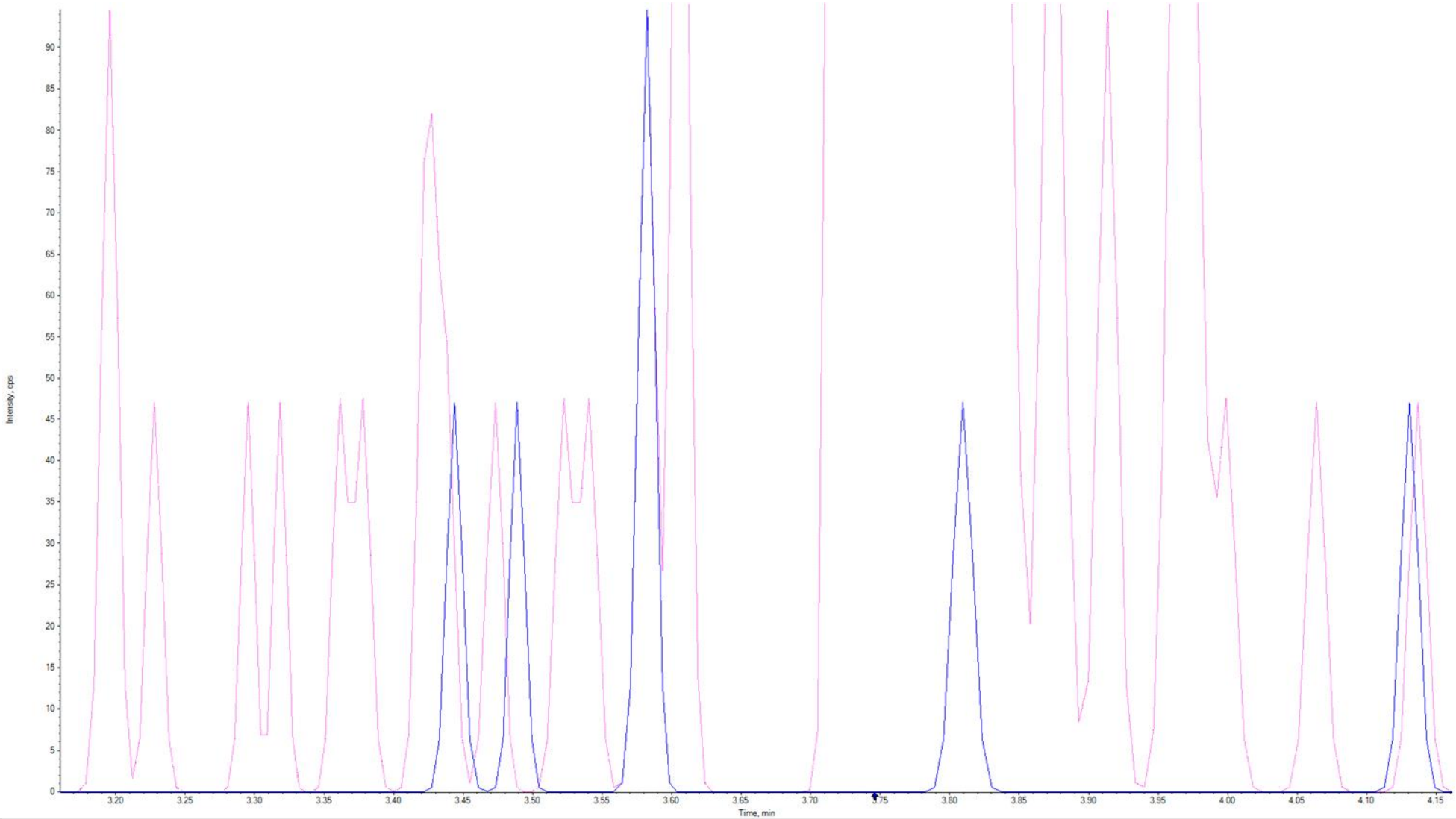
8:2FTS
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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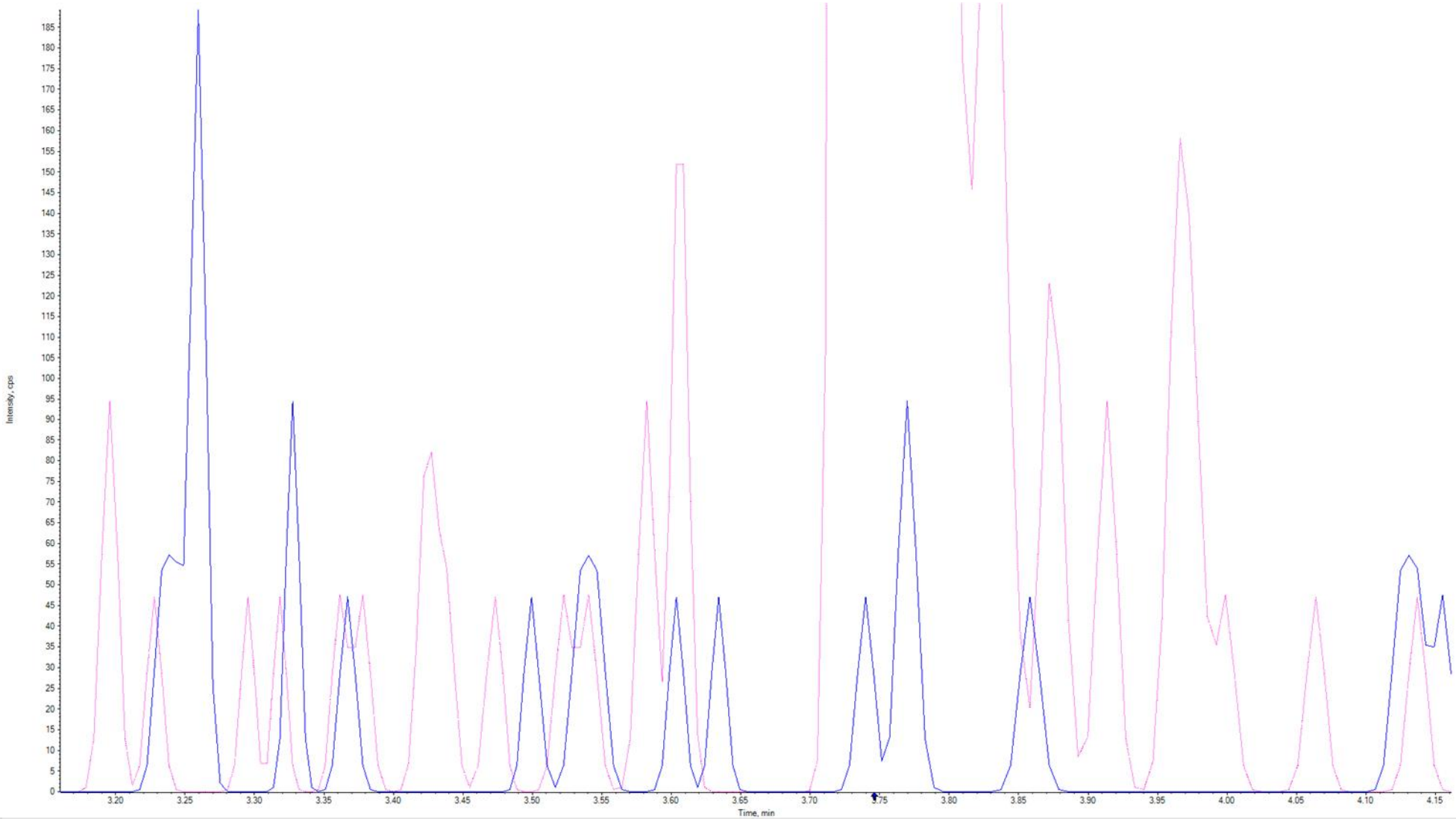
8:2FTS_2
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



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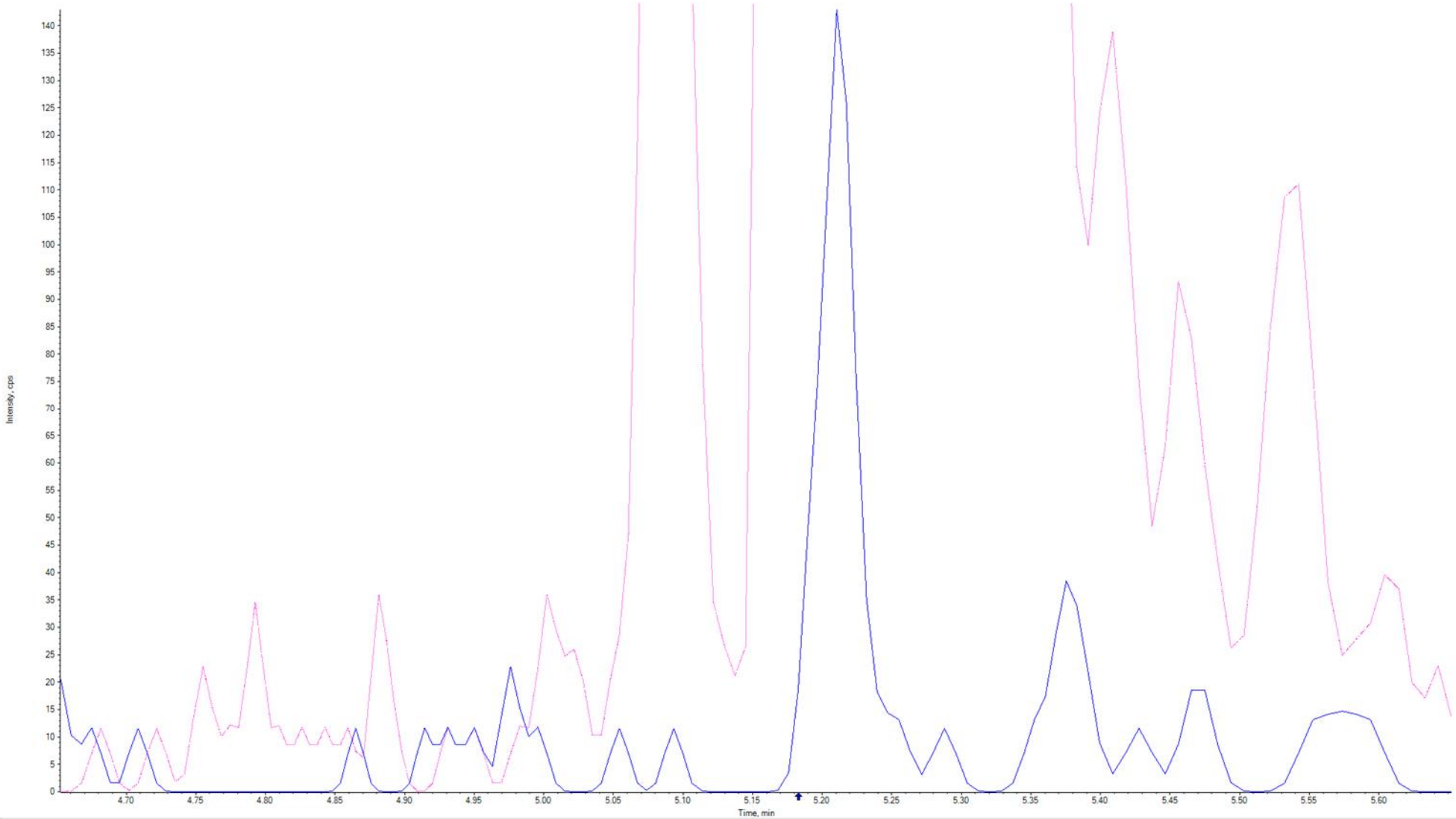
Generated: 12/20/2024 10:43:43 AM

PFOSA
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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PFOSA_2
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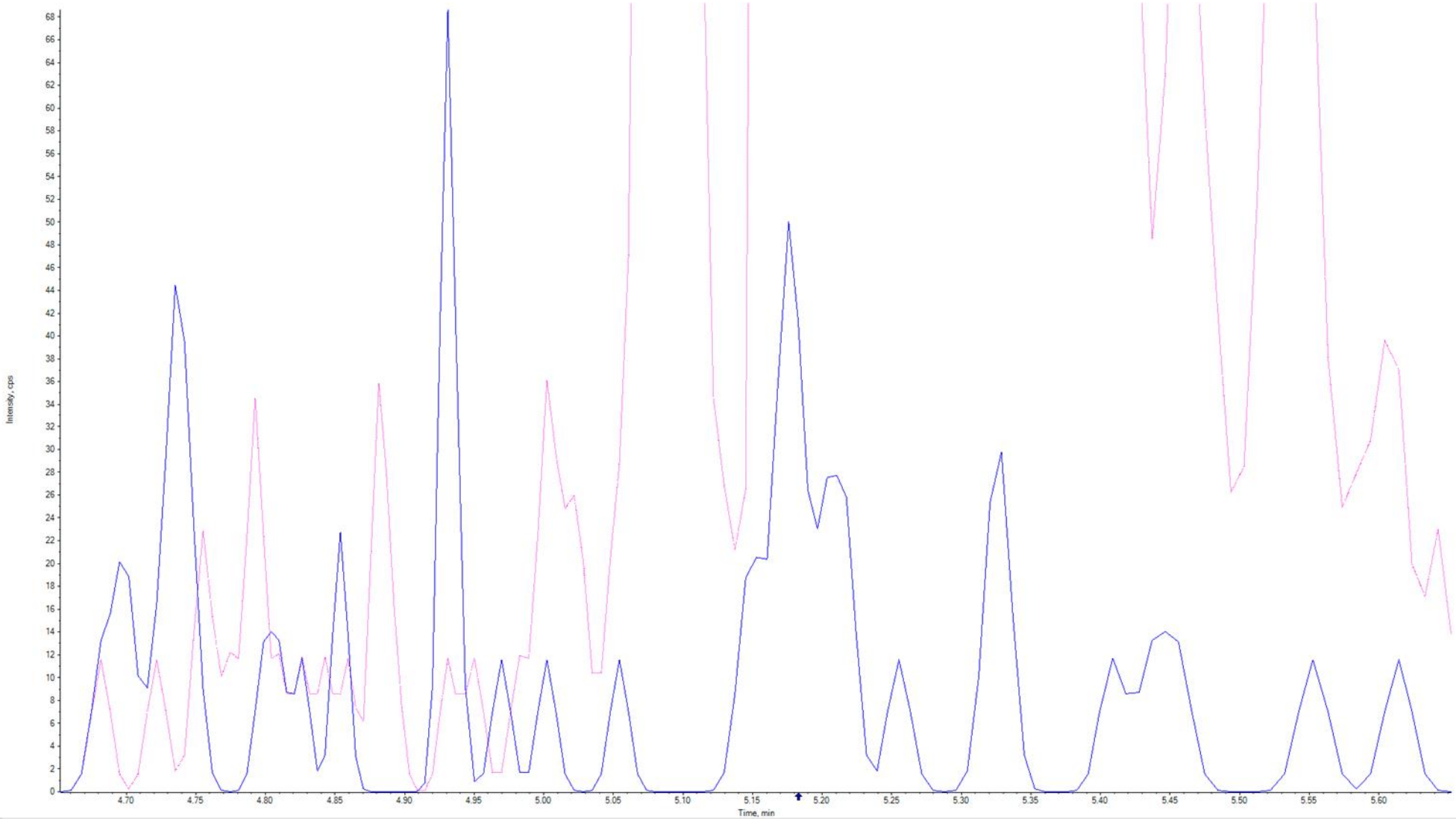

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NMeFOSA
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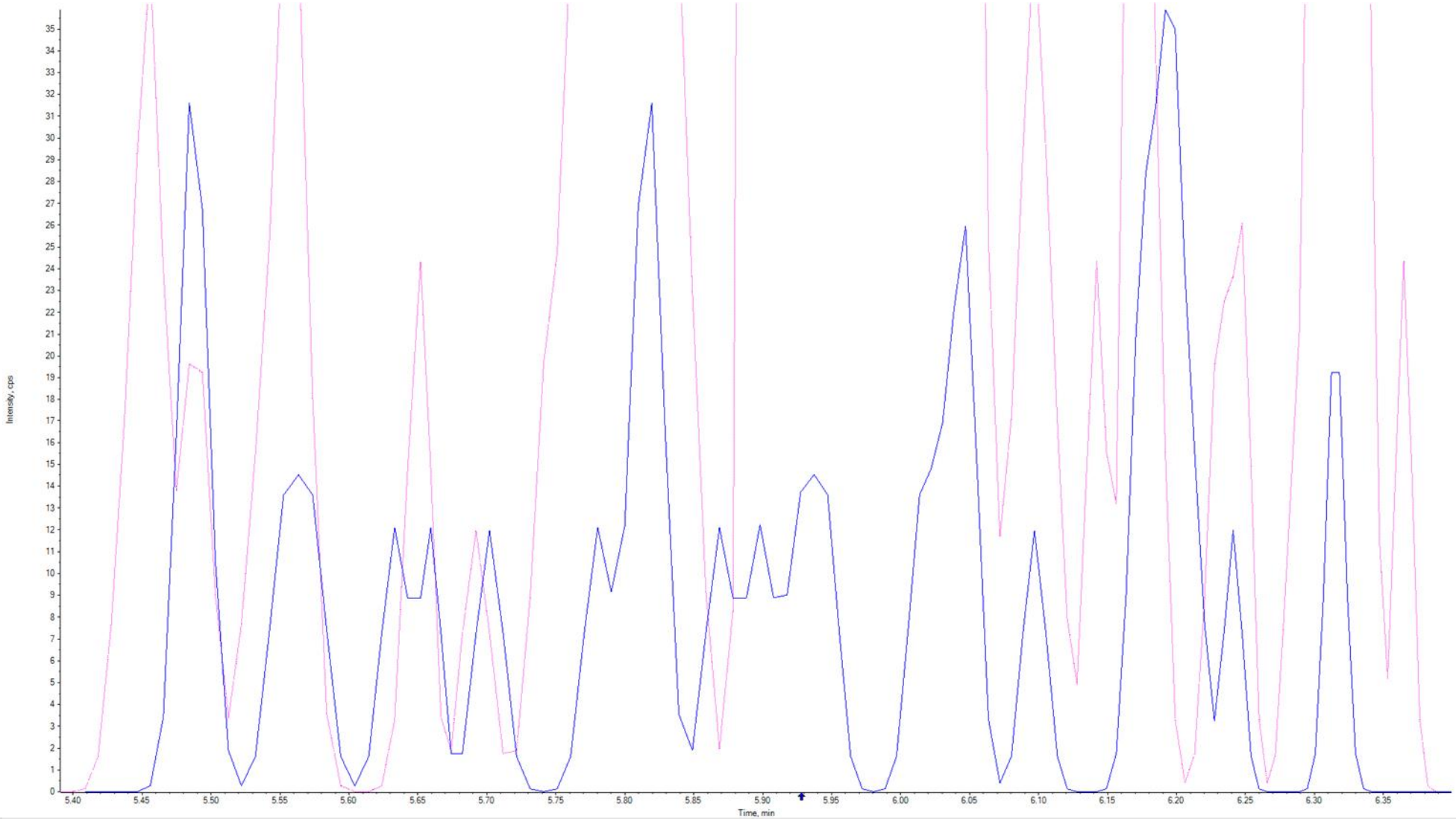

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NMeFOSA_2
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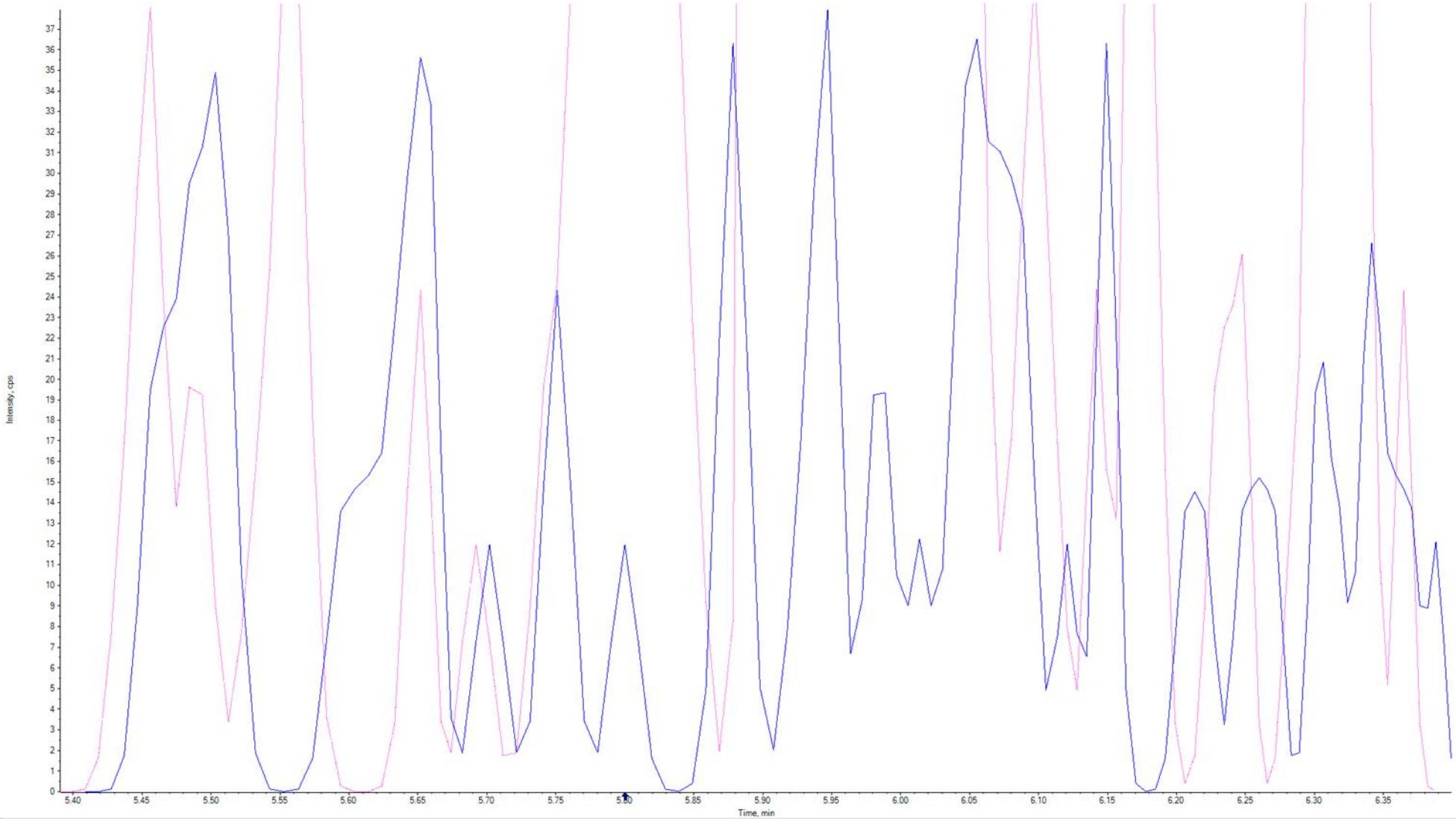

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NEtFOSA
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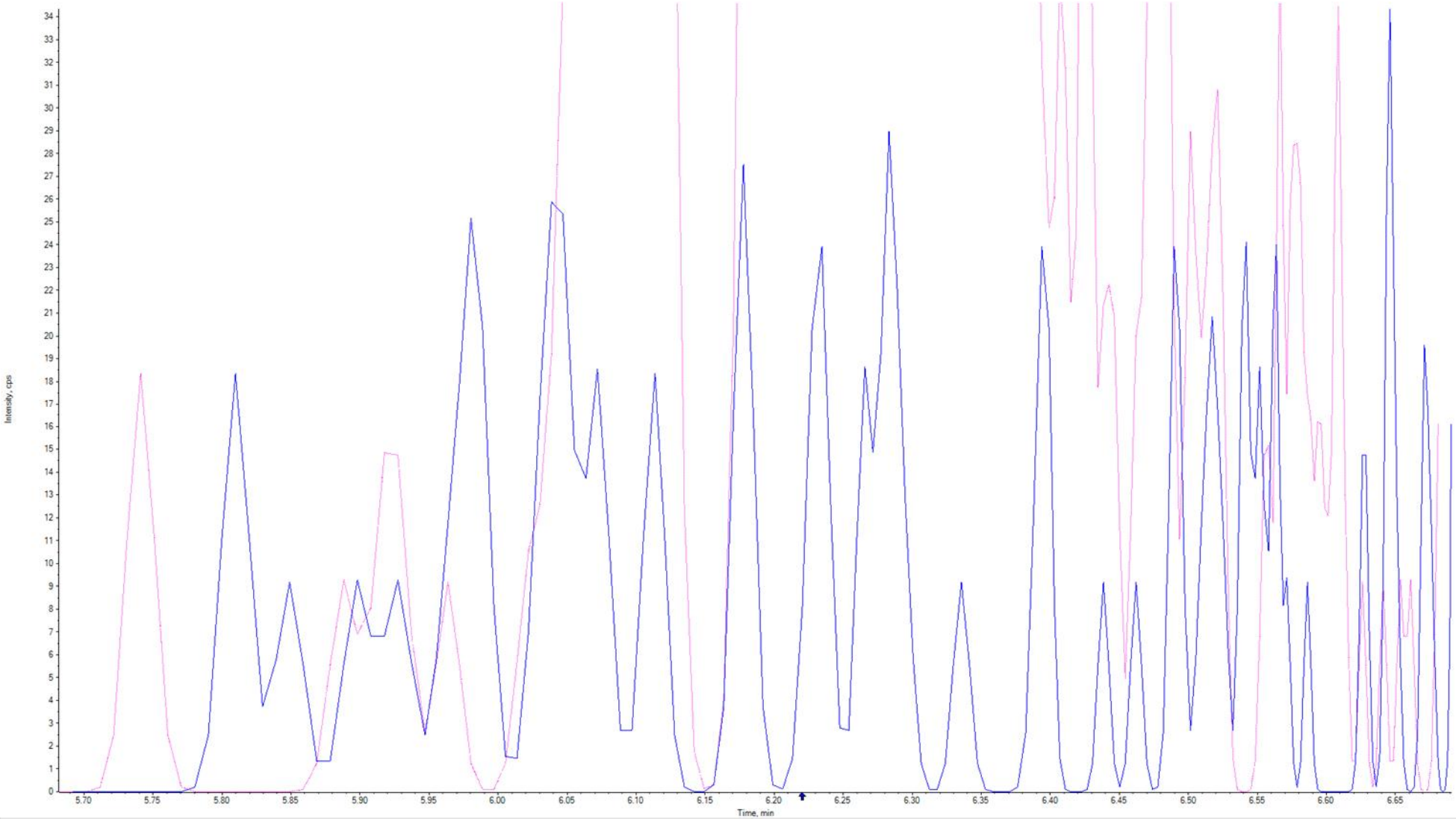

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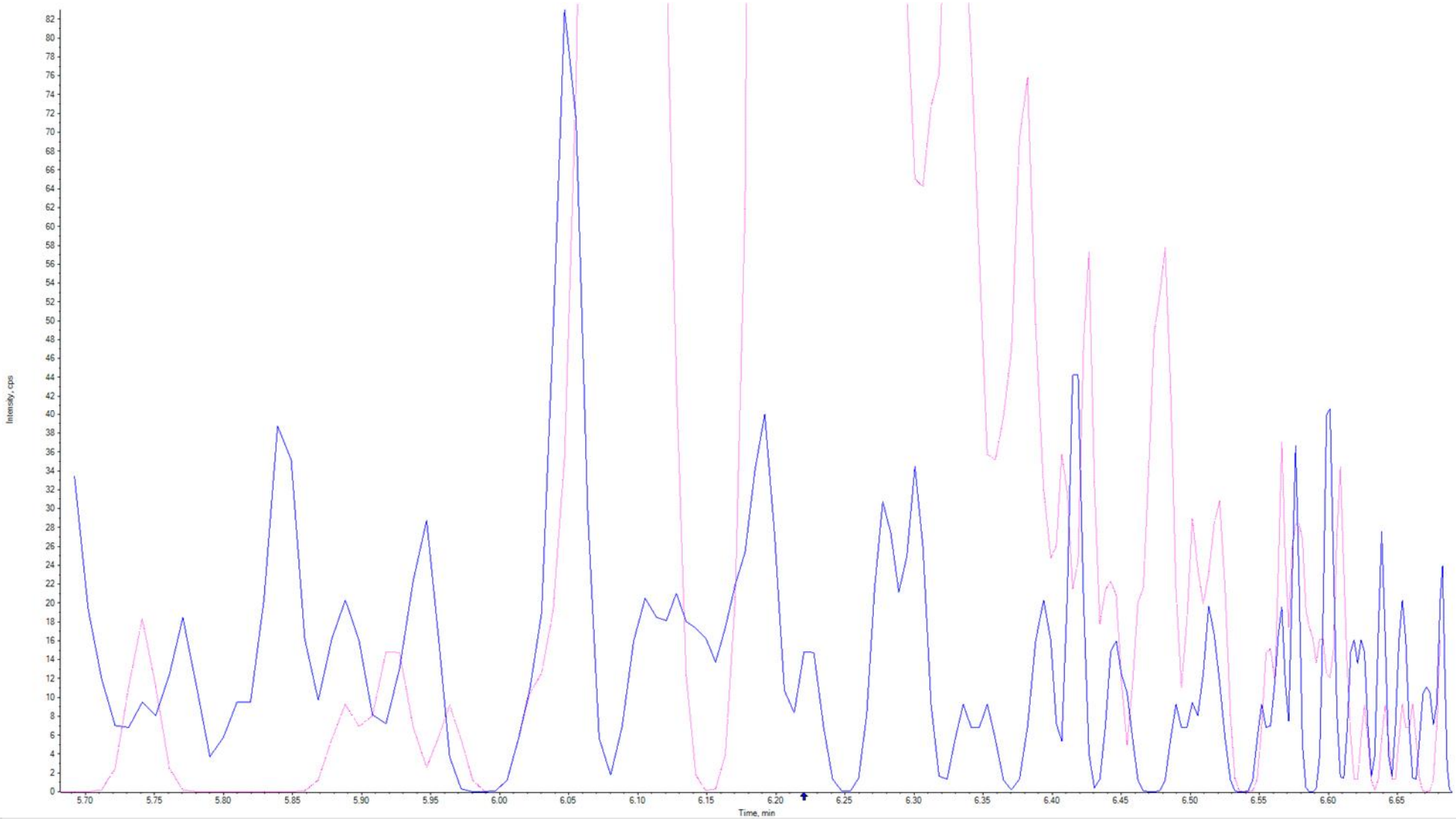

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NMeFOSAA
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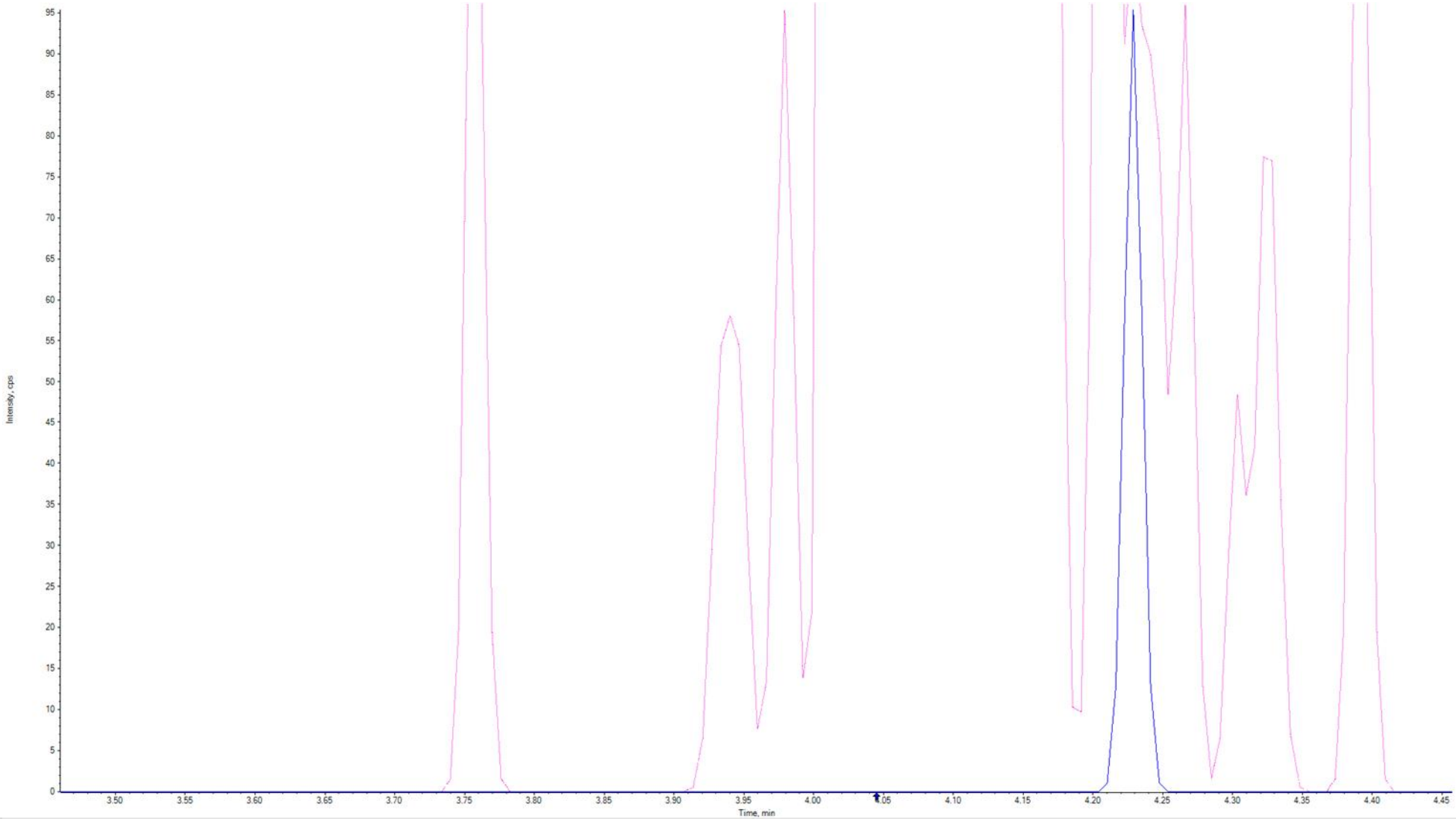

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NMeFOSAA_2
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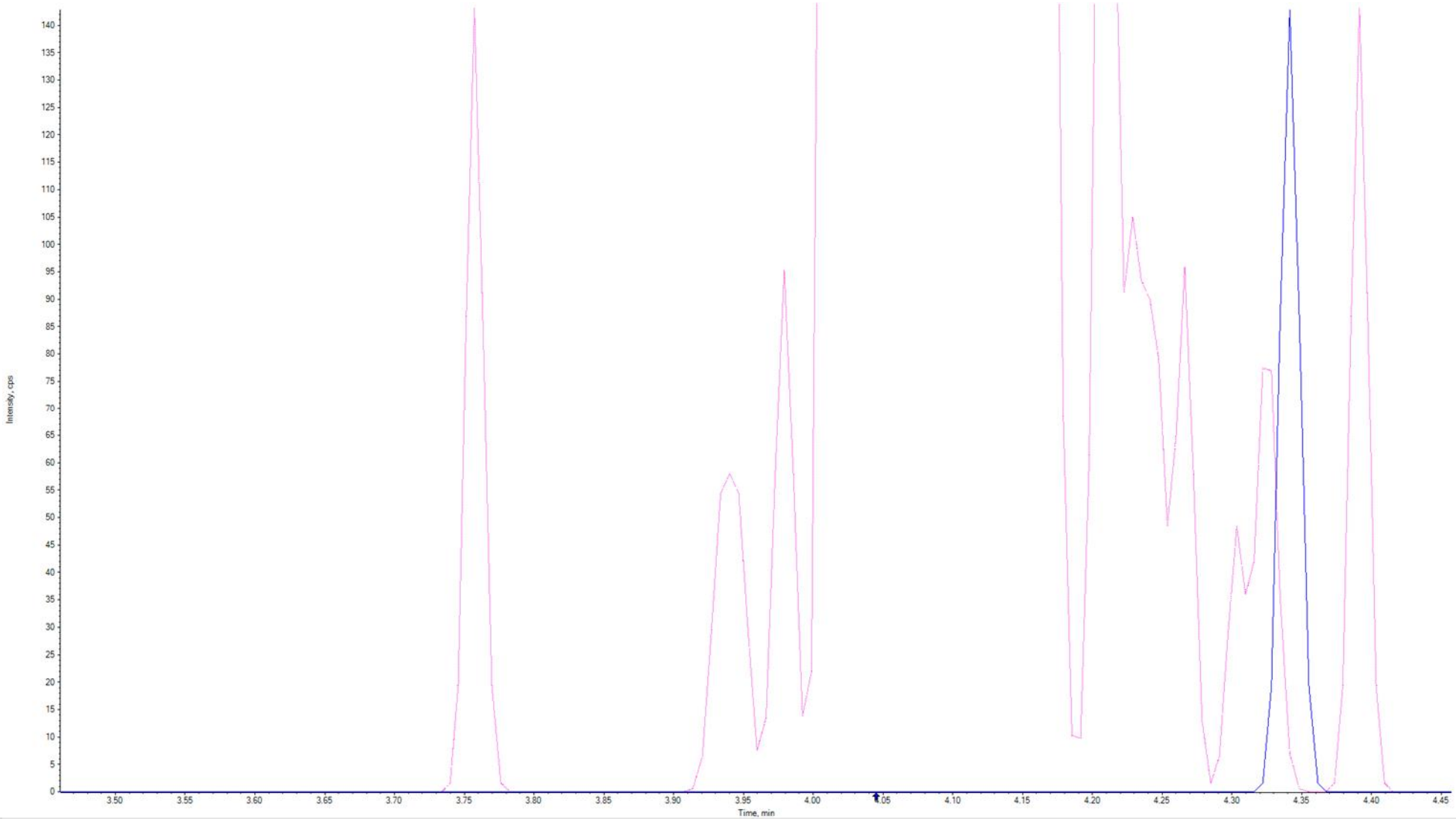

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NEtFOSAA
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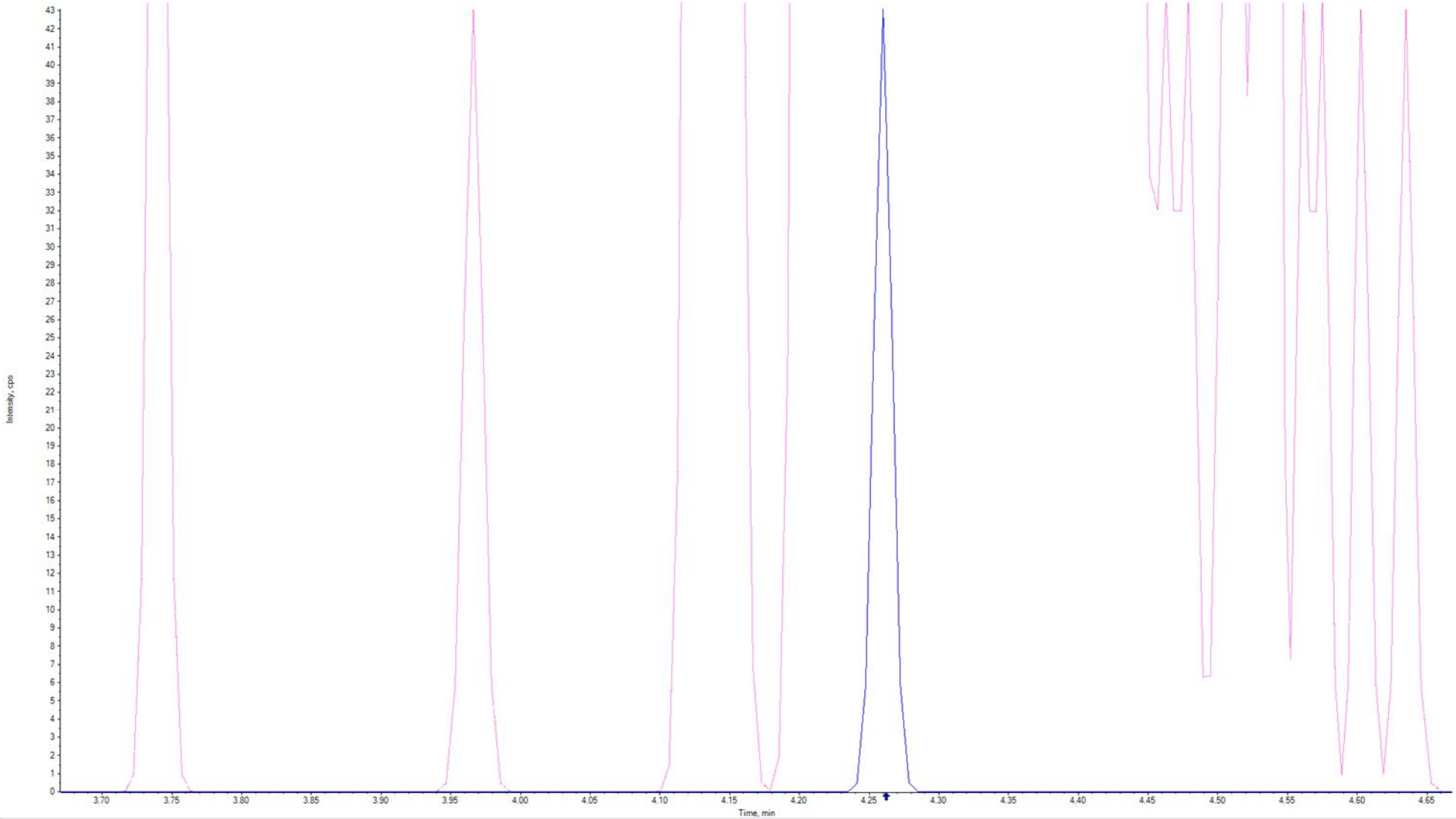

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NEtFOSAA_2
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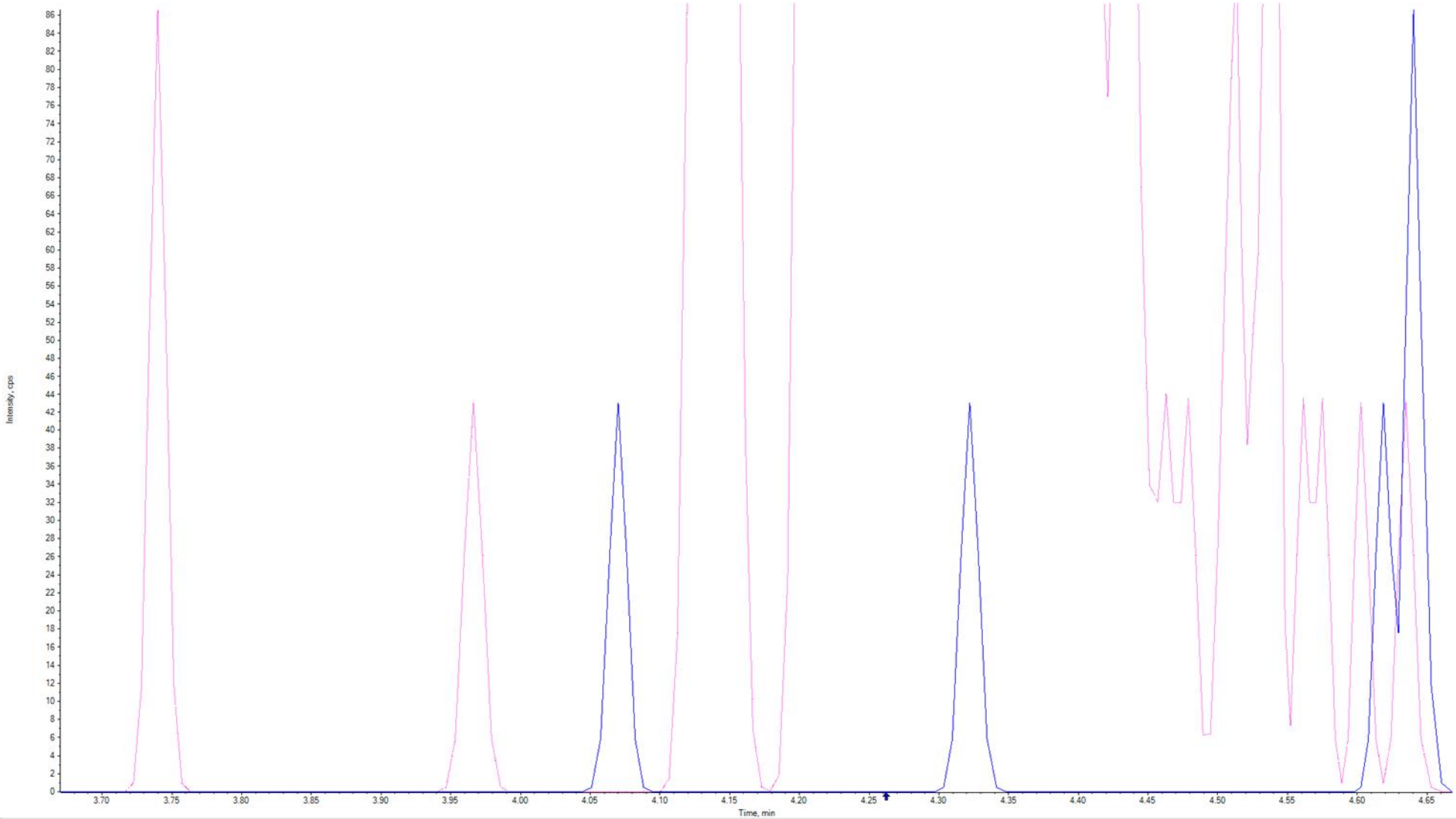

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NMeFOSE
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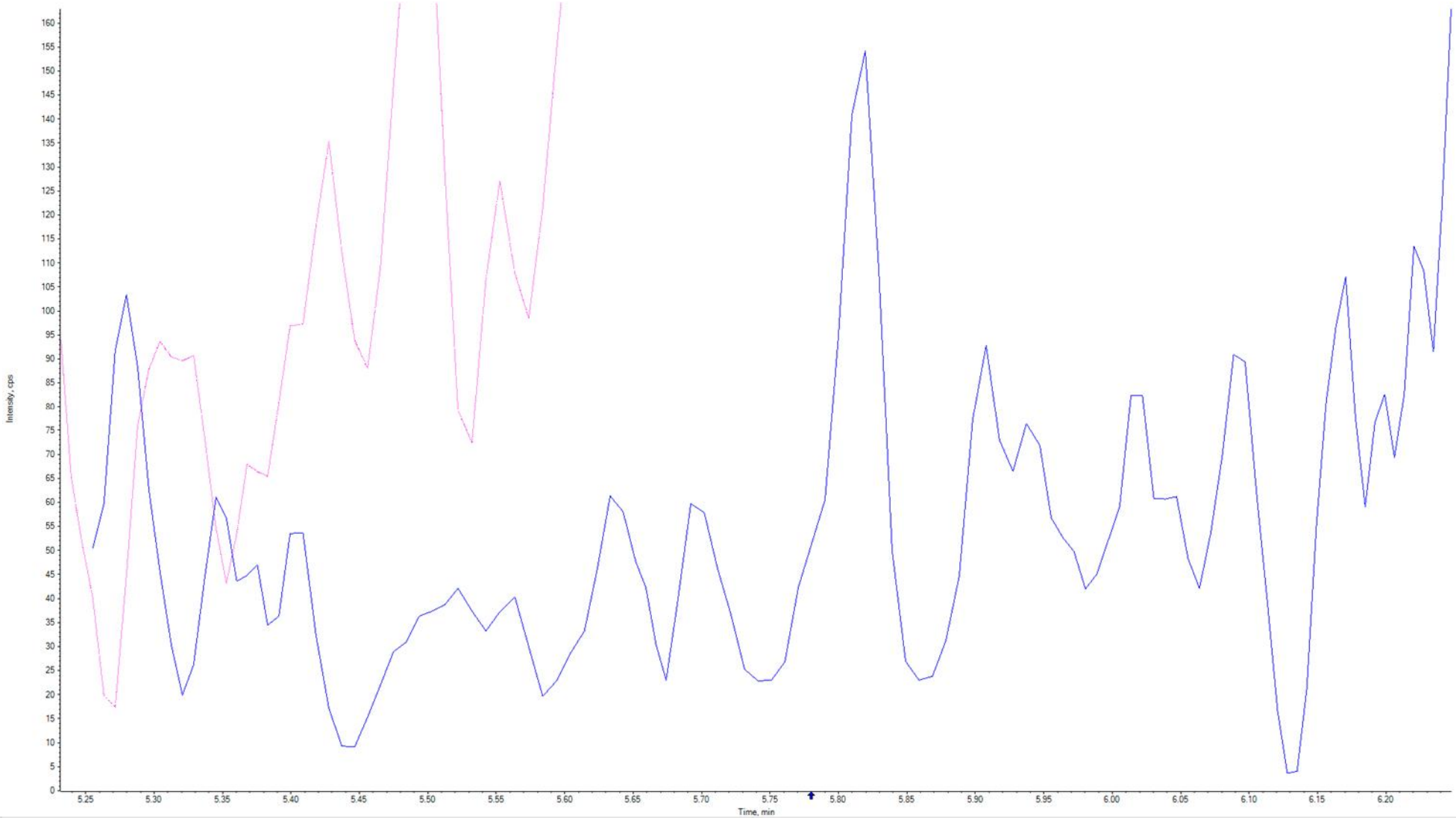

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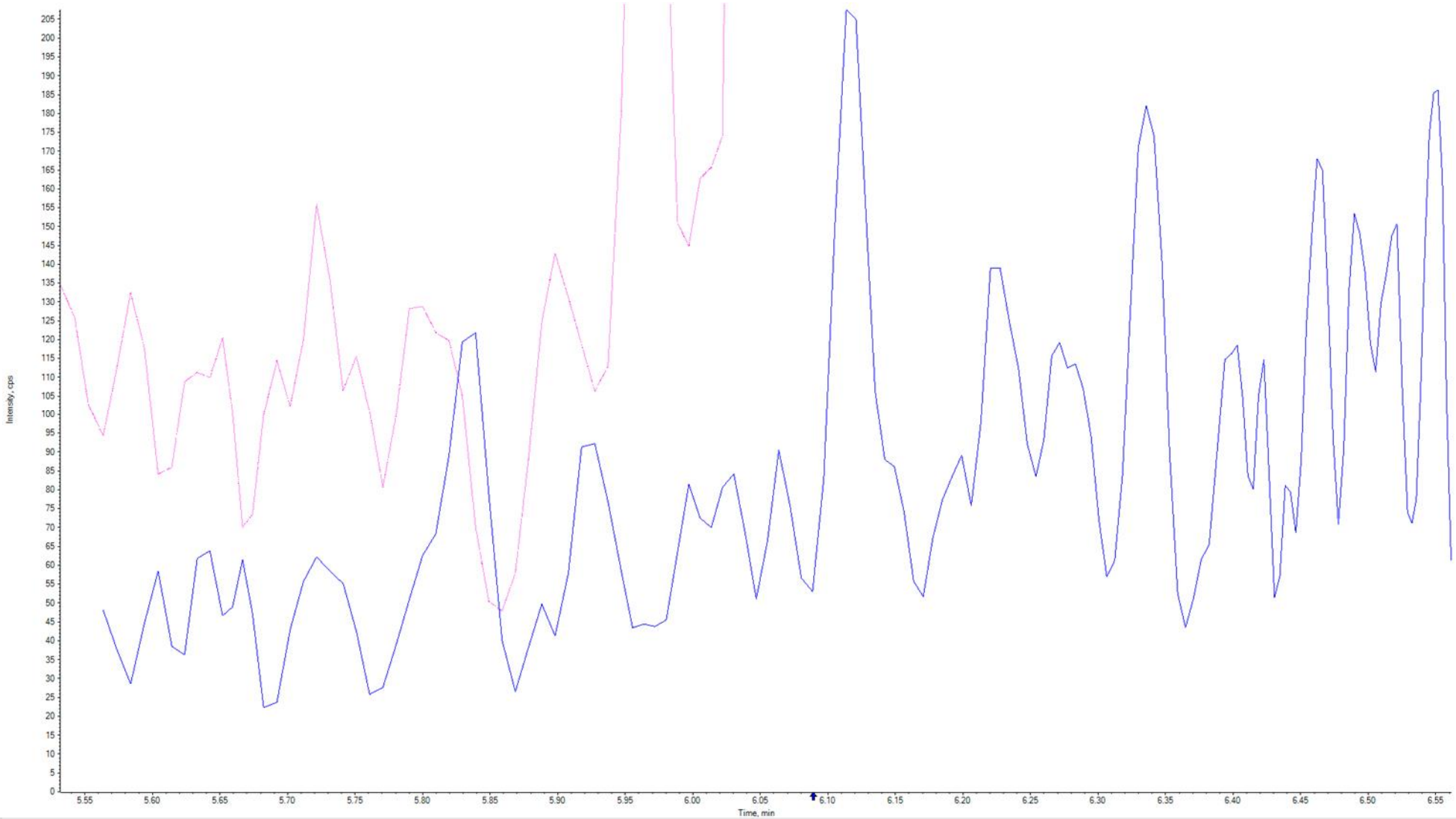

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HFPO-DA
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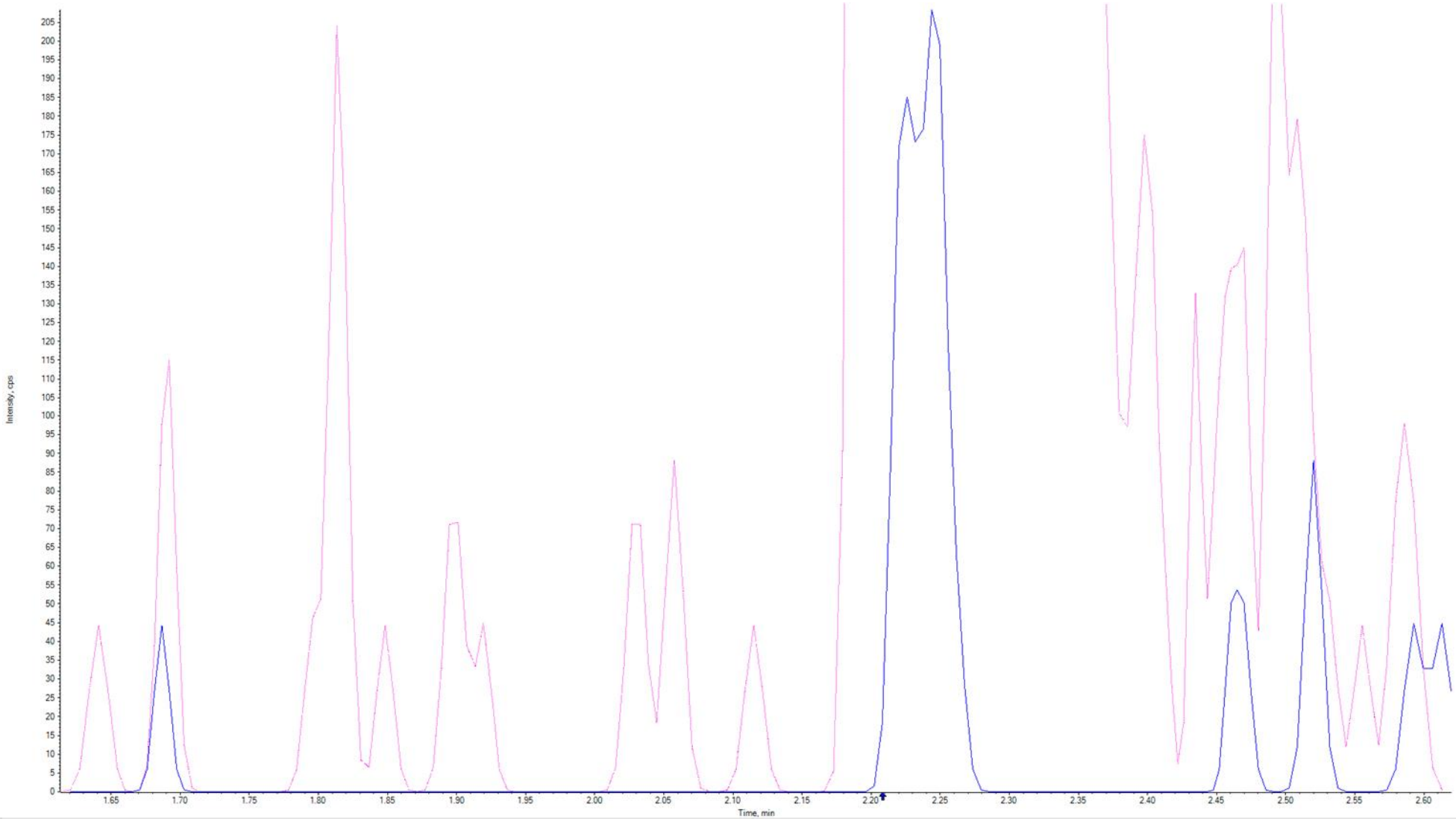

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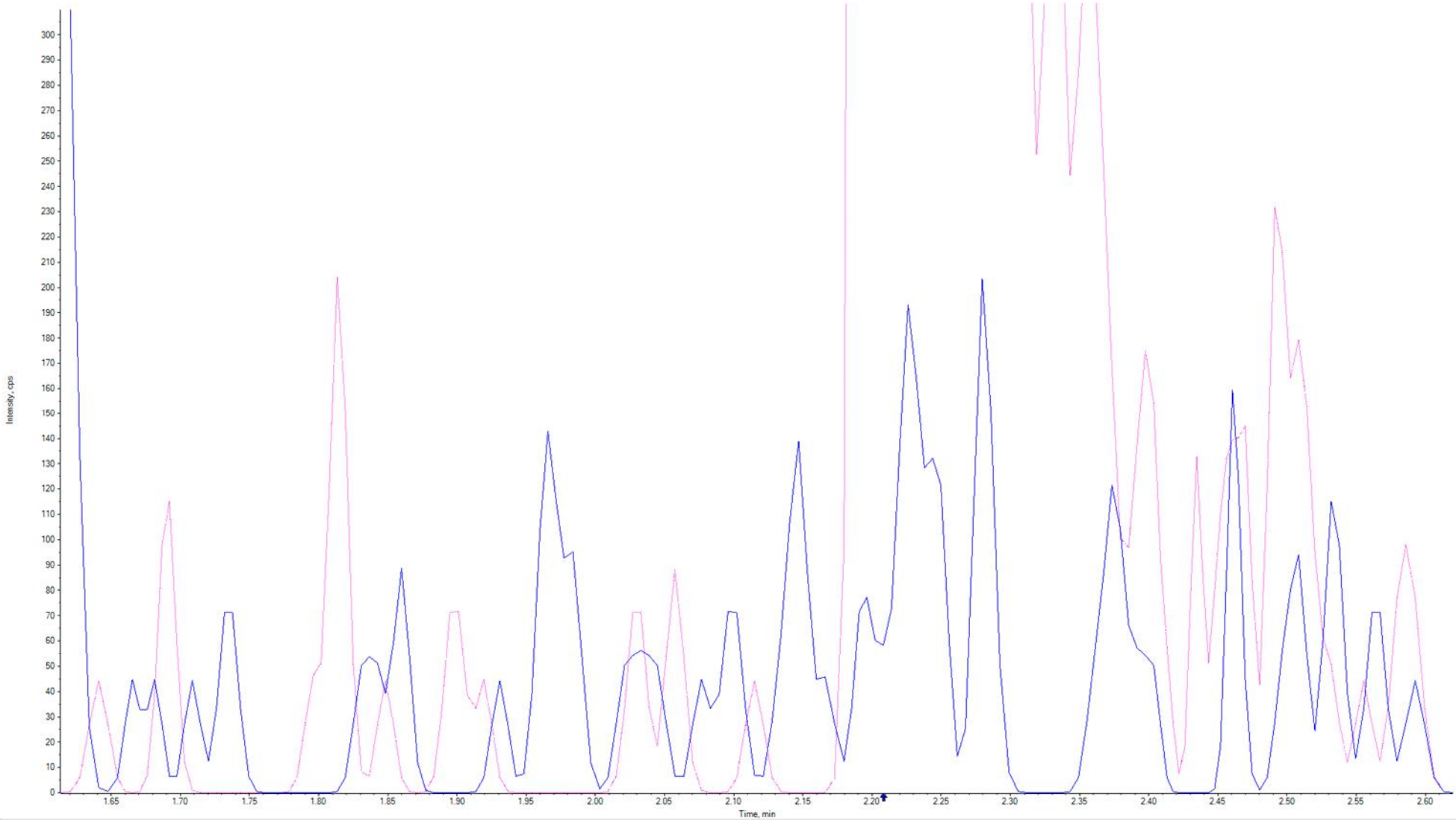
HFPO-DA_2
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



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ADONA
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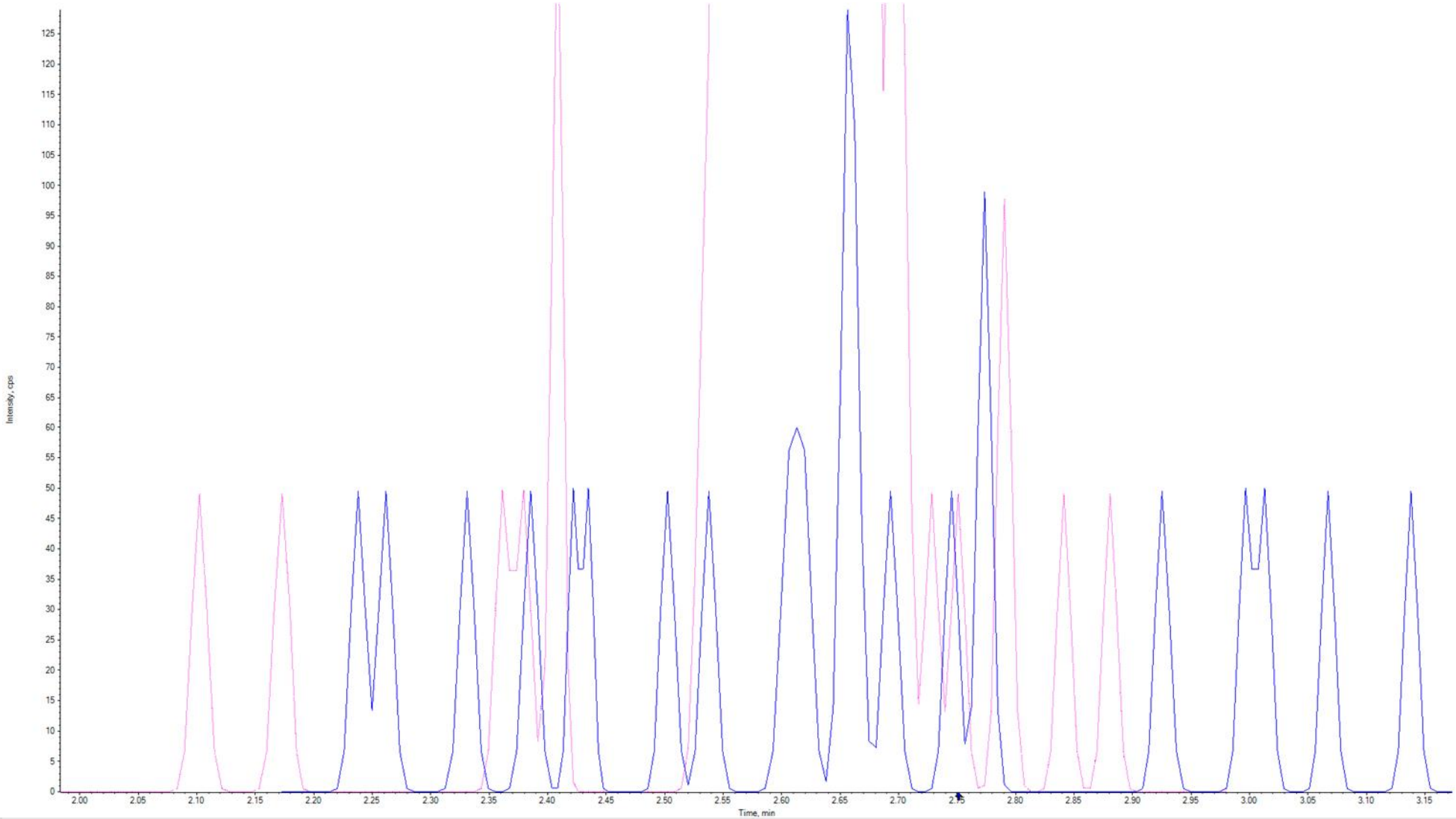

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ADONA_2
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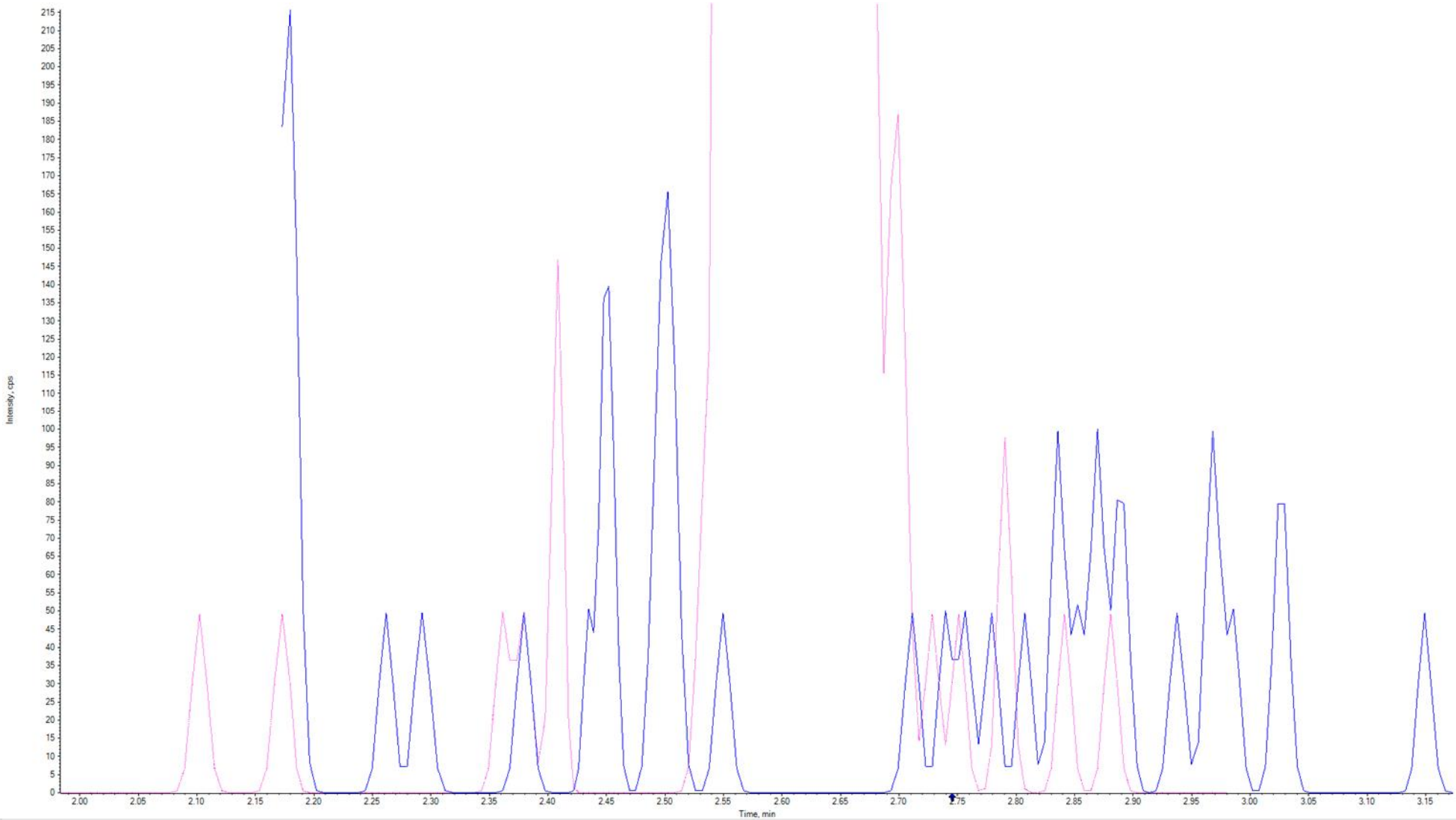

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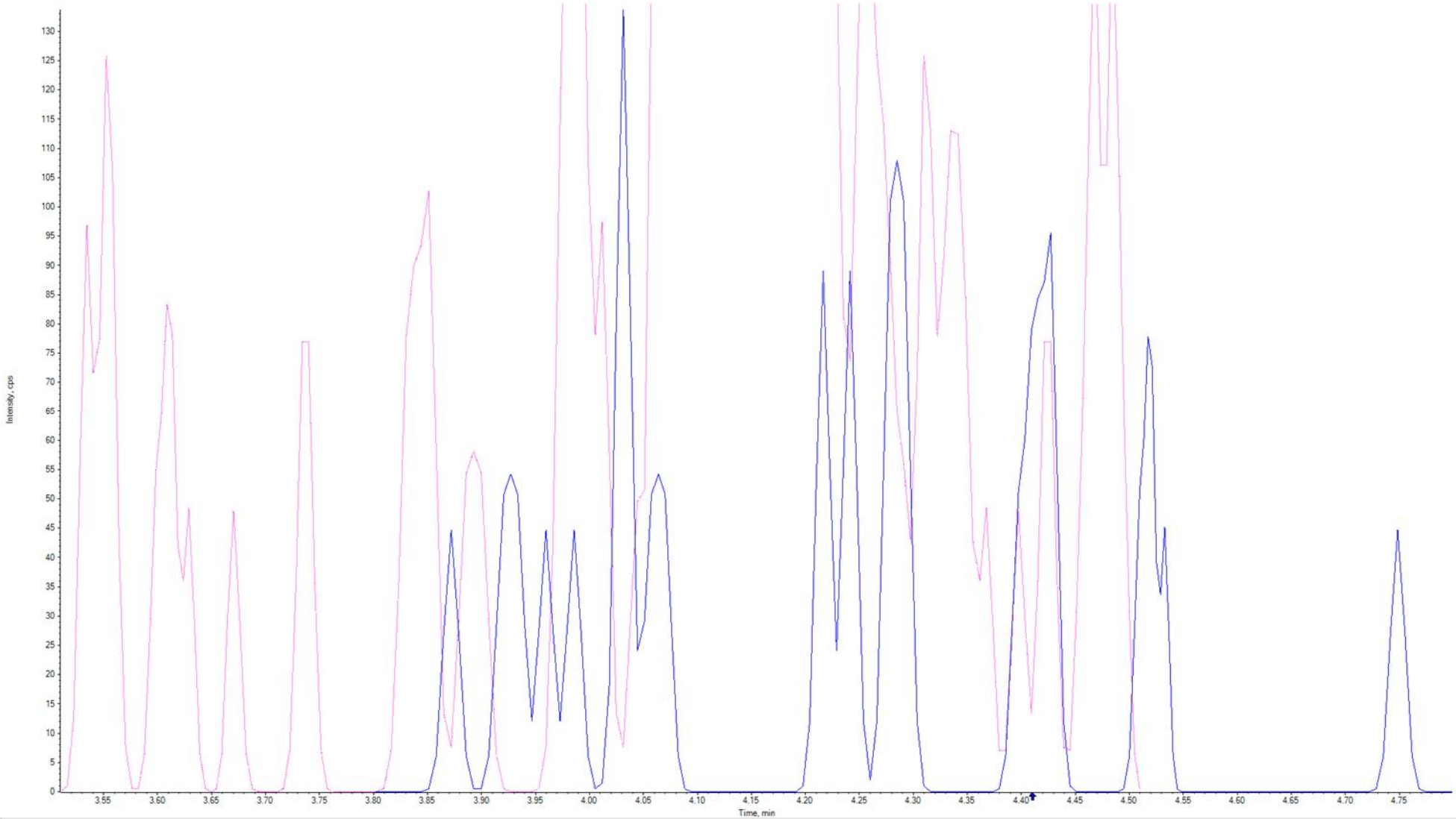
9Cl-PF3ONS
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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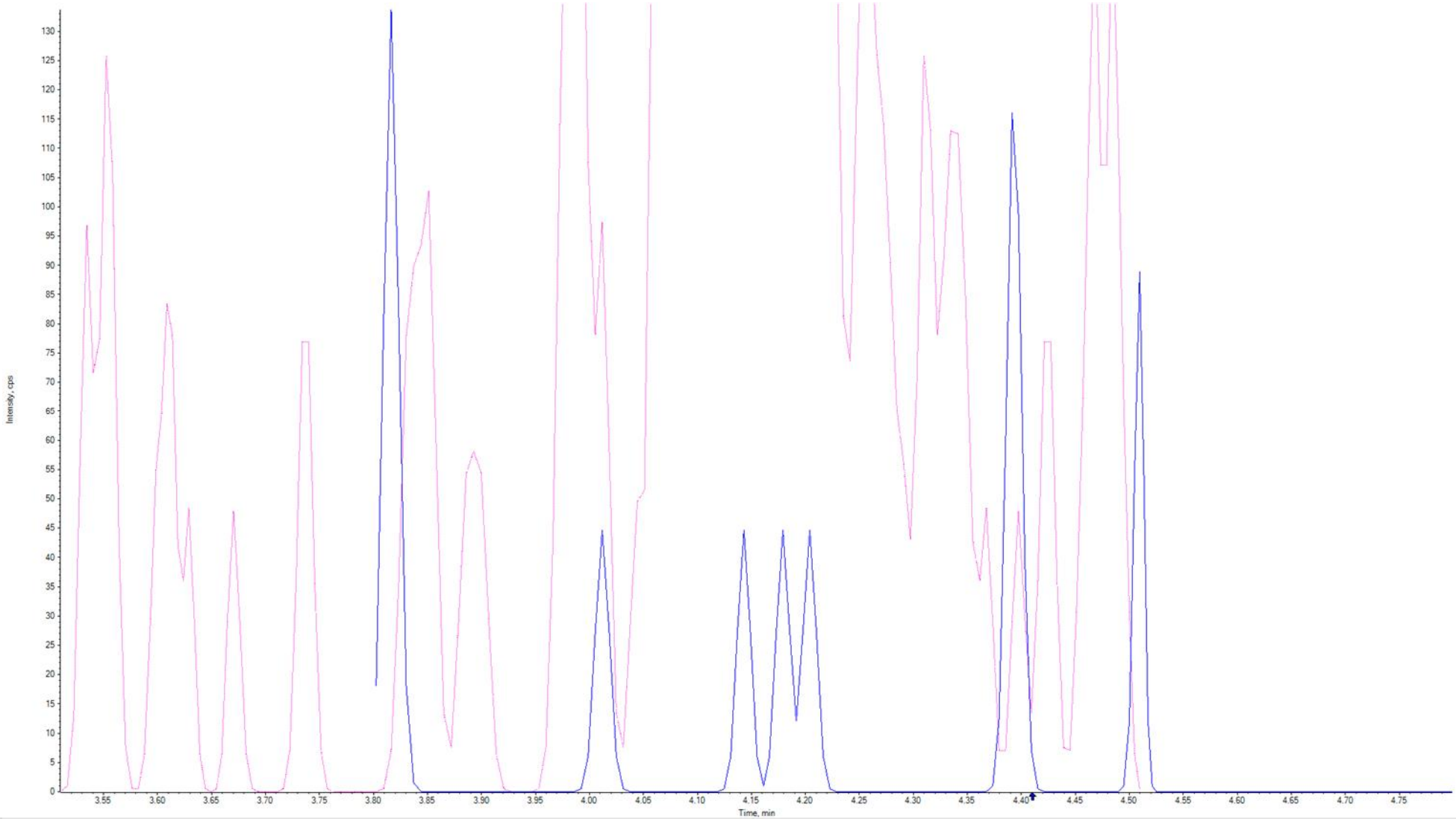
9Cl-PF3ONS_2
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



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11Cl-PF3OUdS
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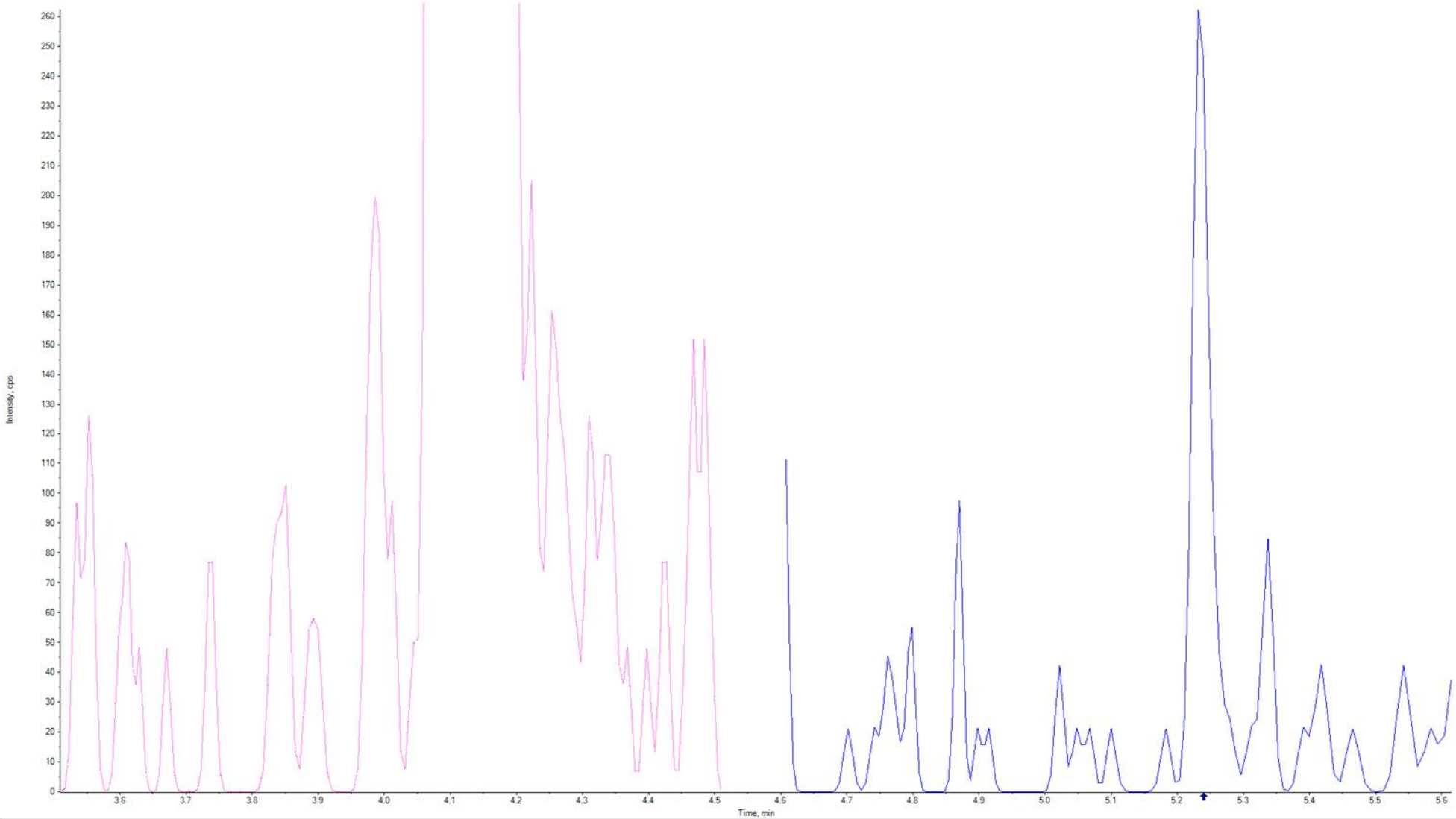

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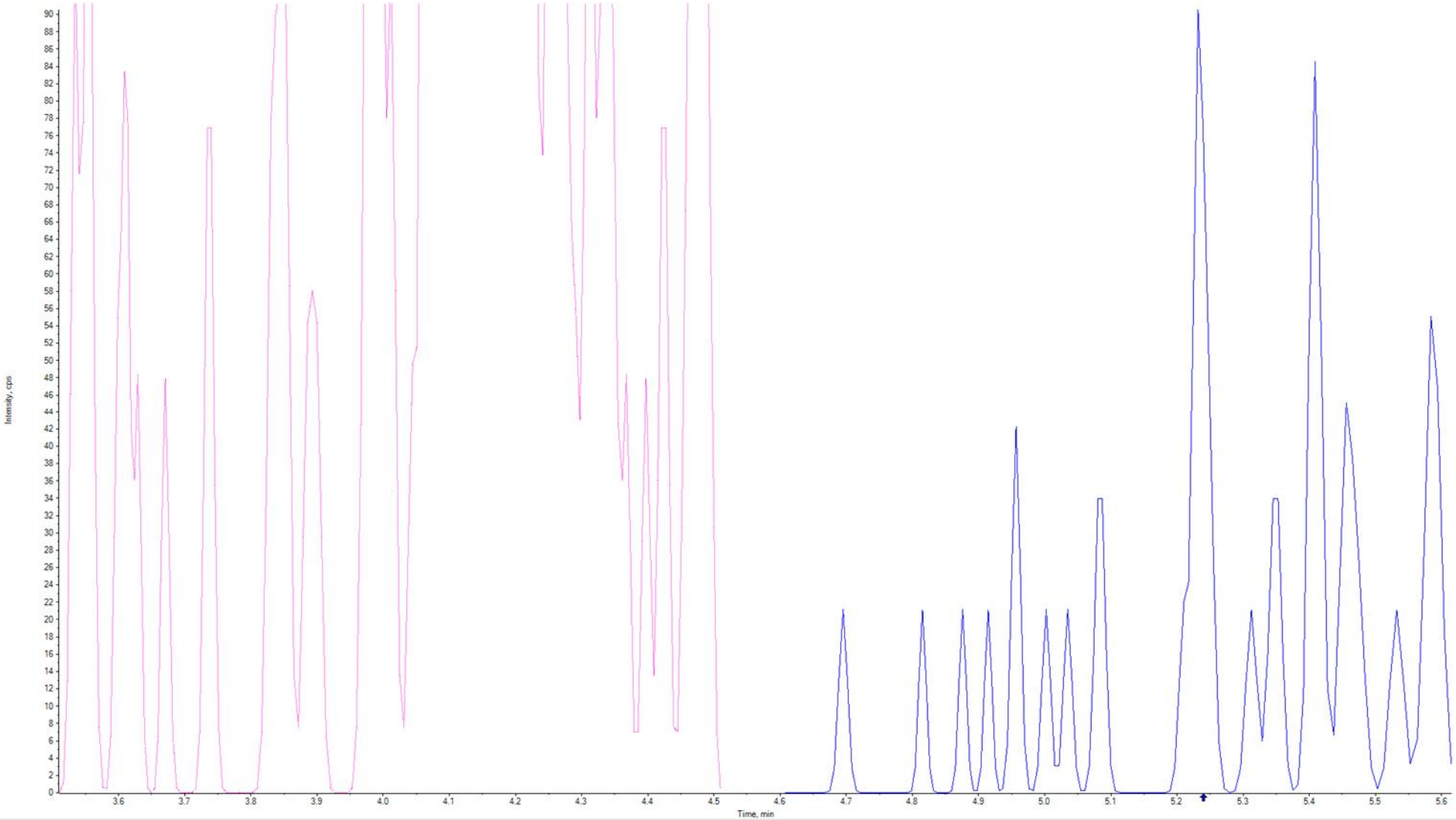

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3:3FTCA
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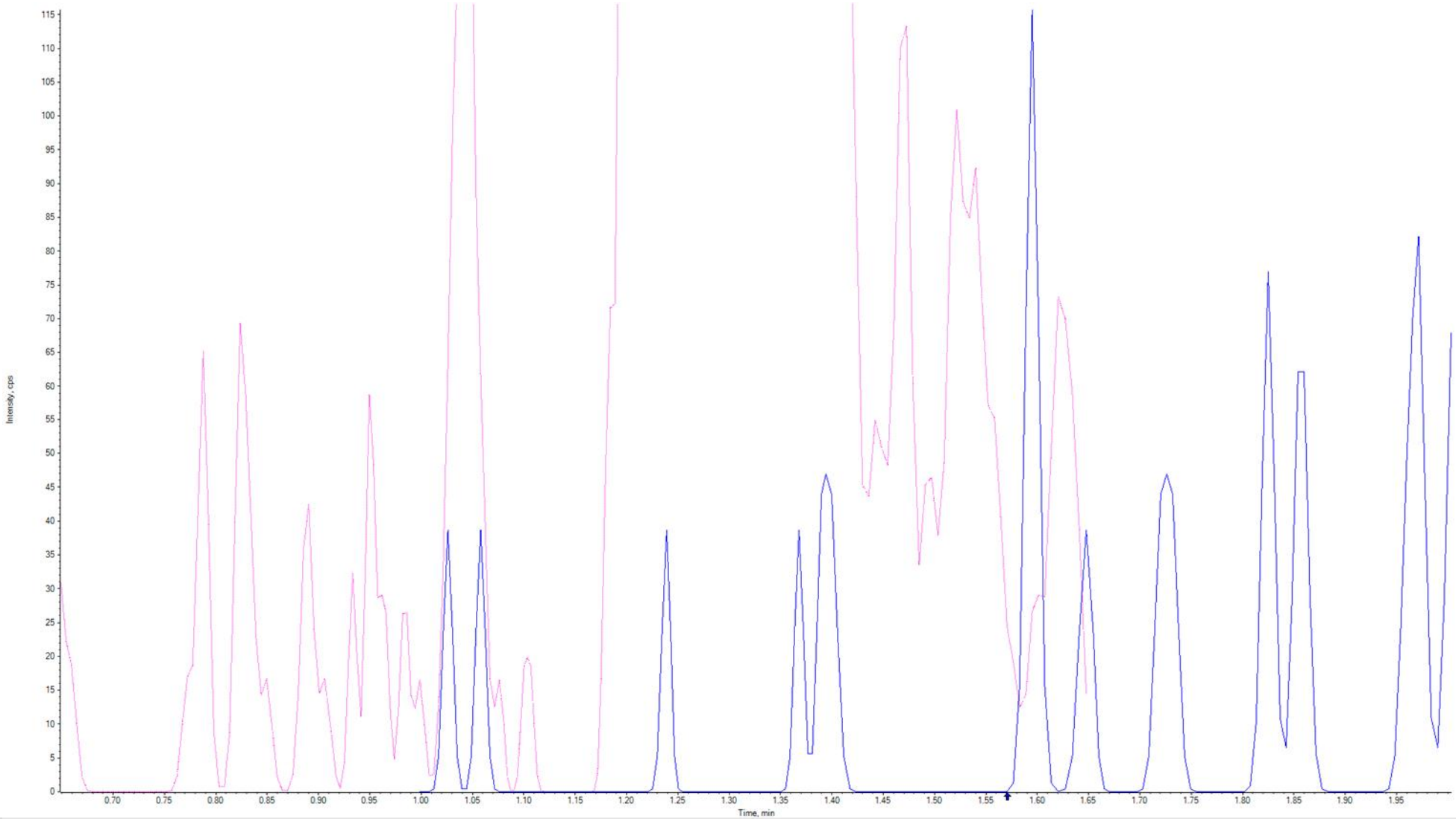

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3:3FTCA_2
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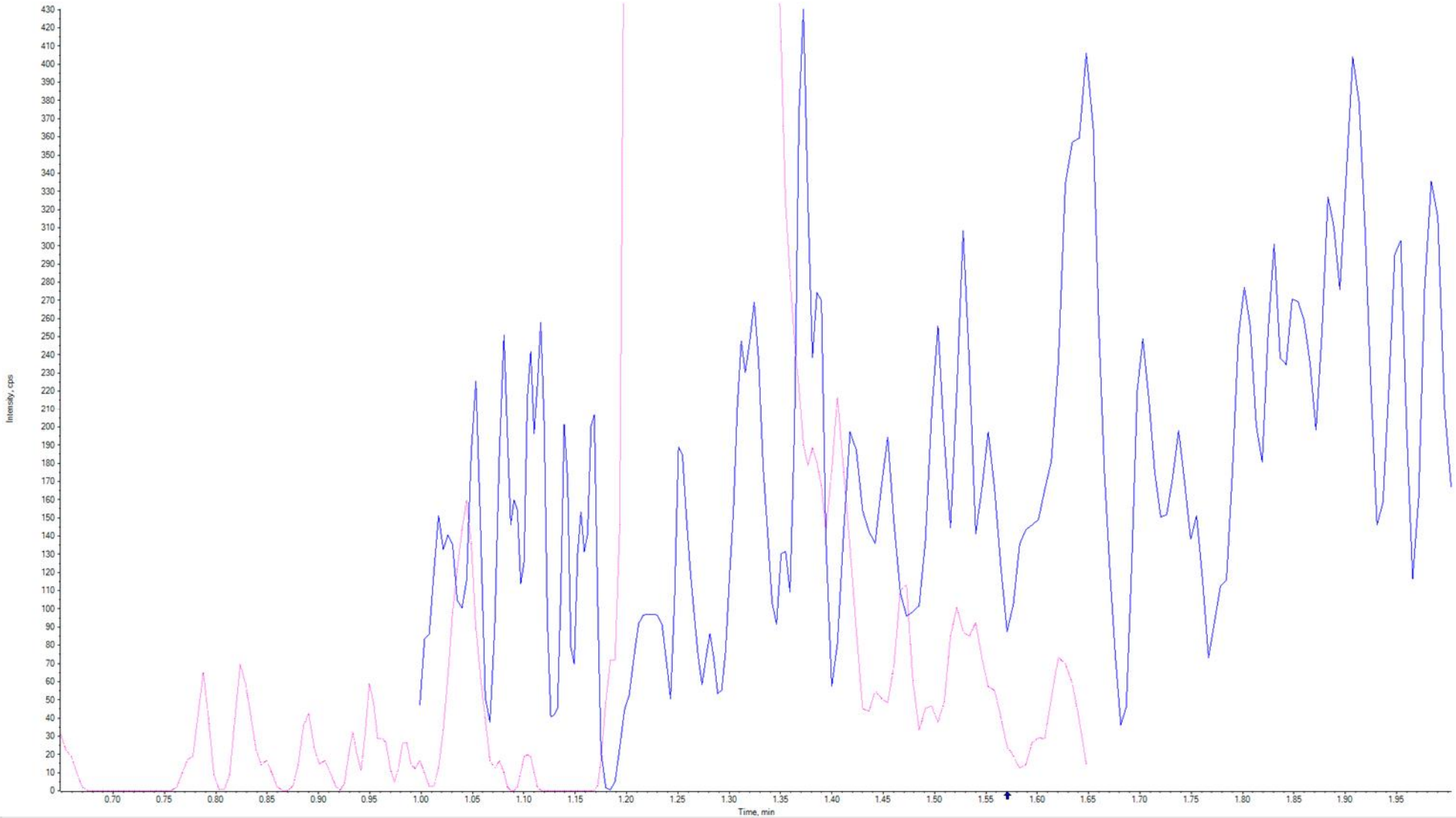

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5:3FTCA
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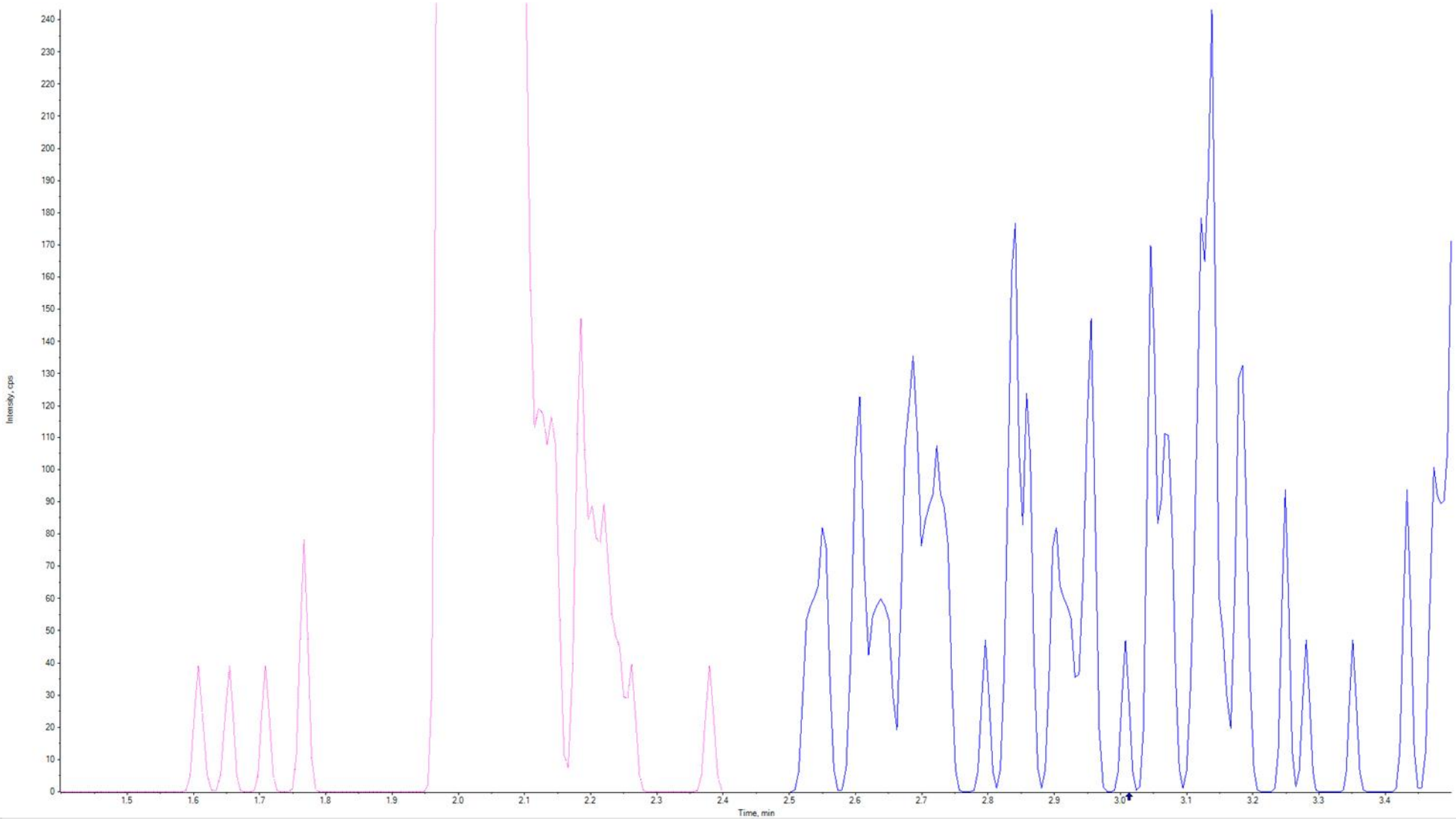

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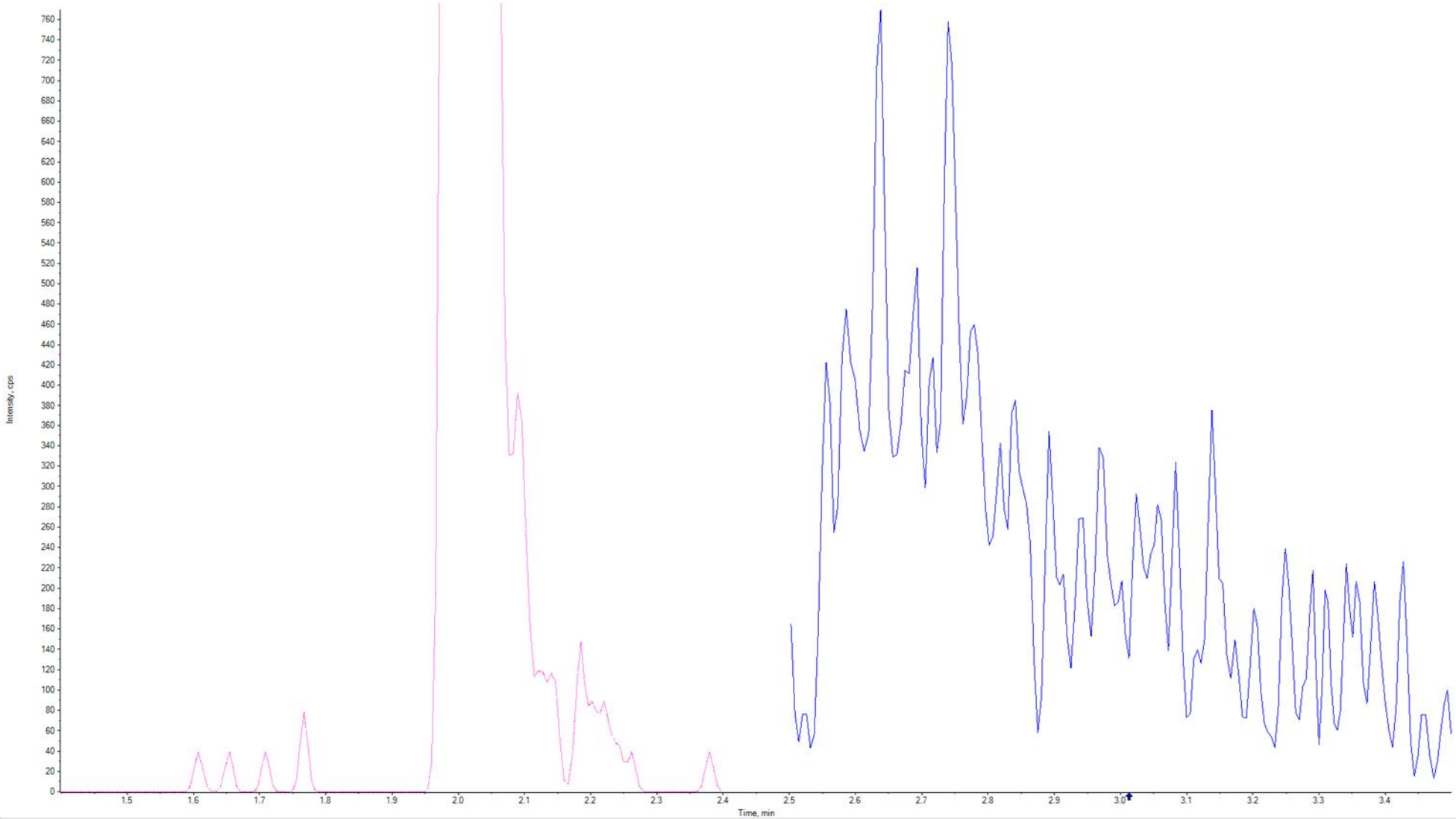
5:3FTCA_2
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



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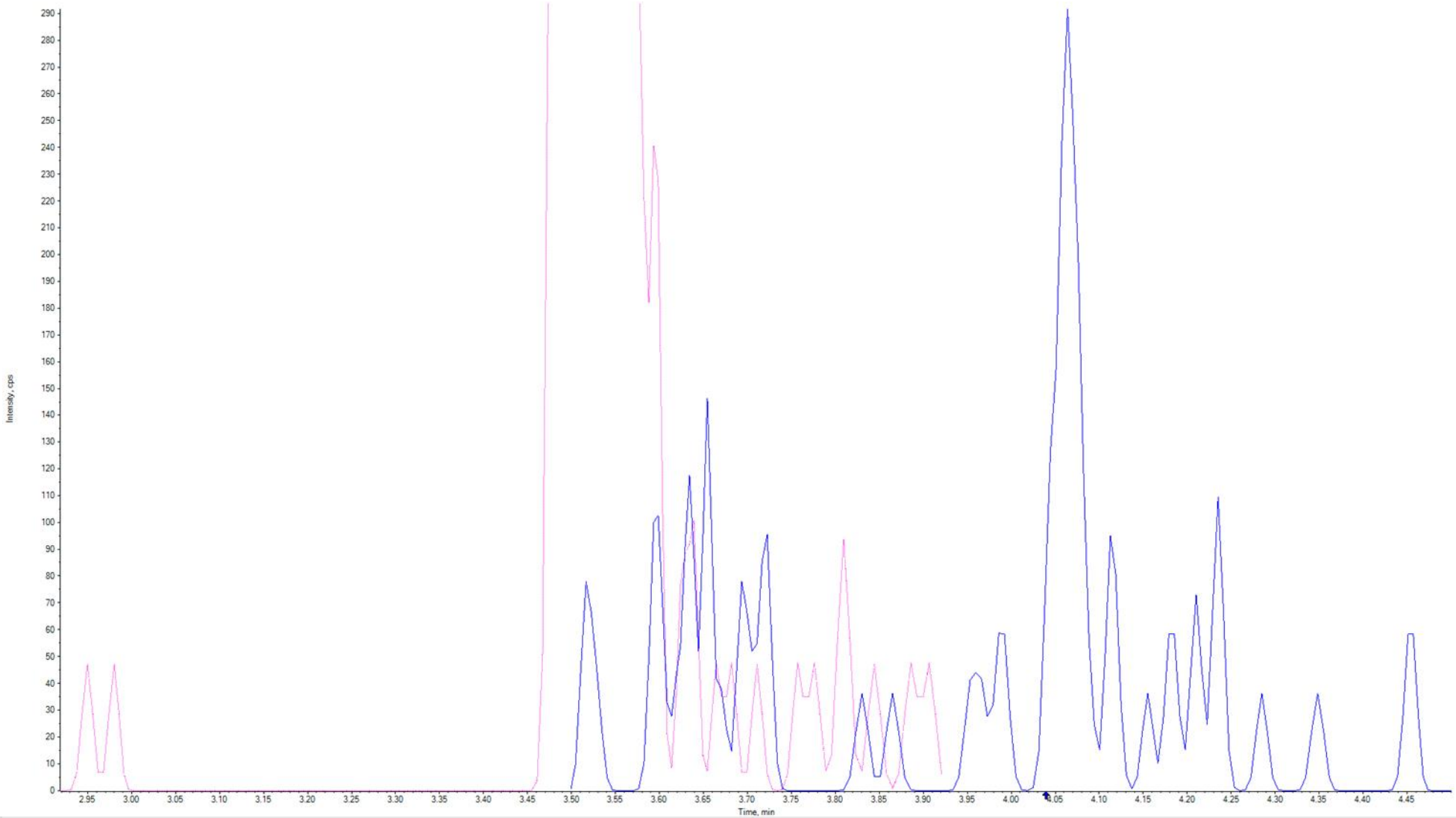
7:3FTCA
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



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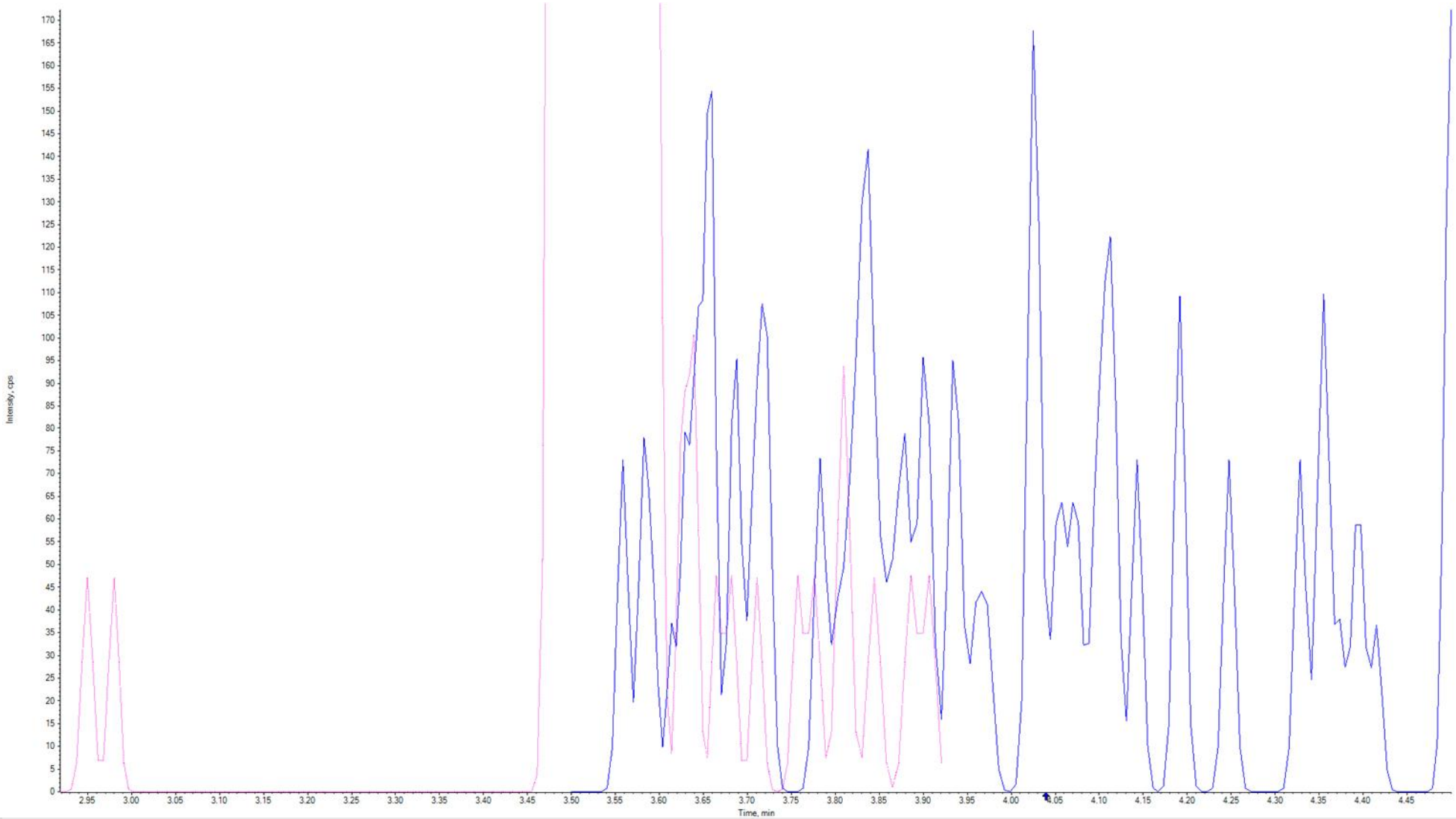

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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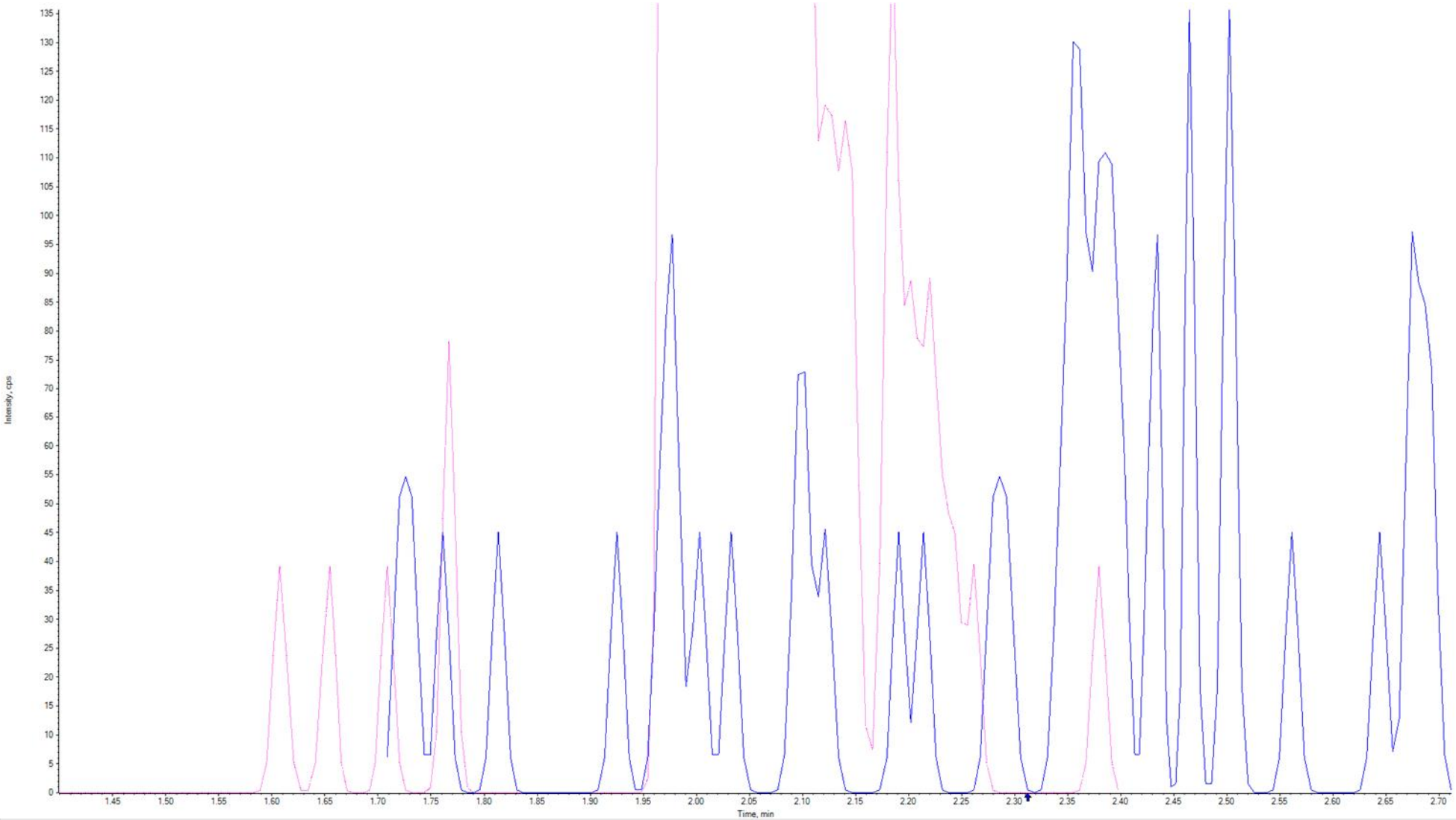
PFEESA
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



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PFEESA_2
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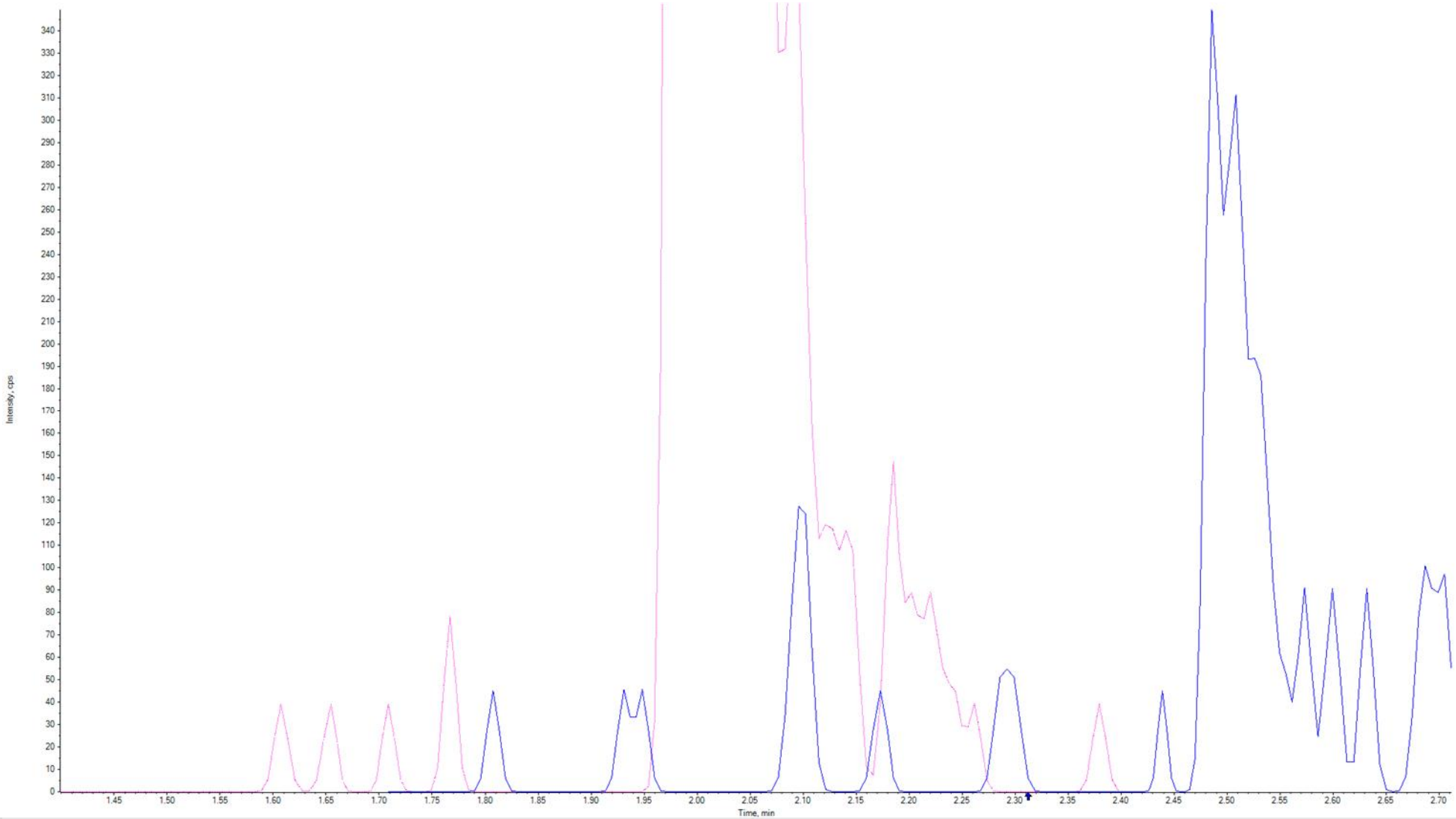

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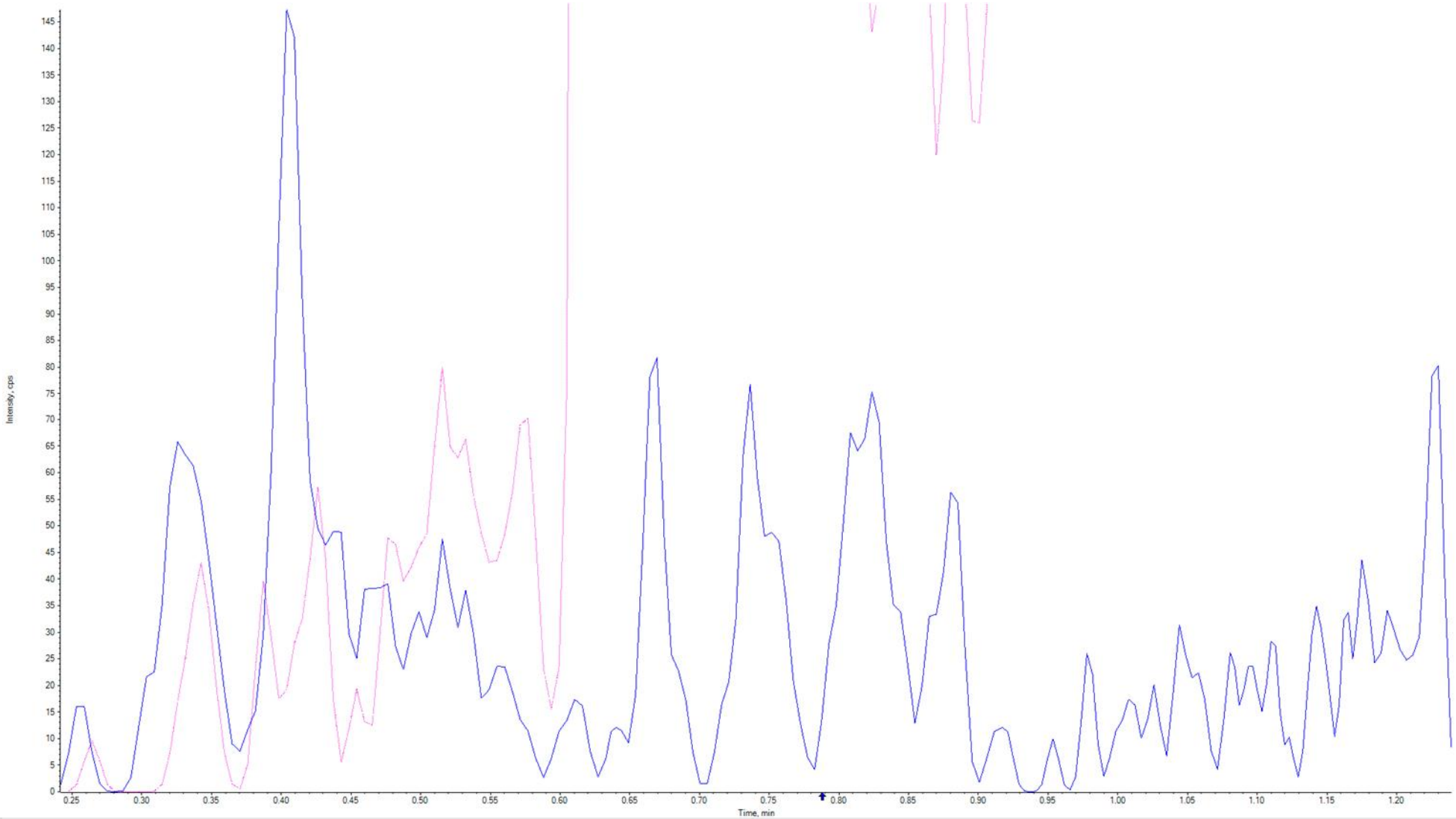
PFMPA
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



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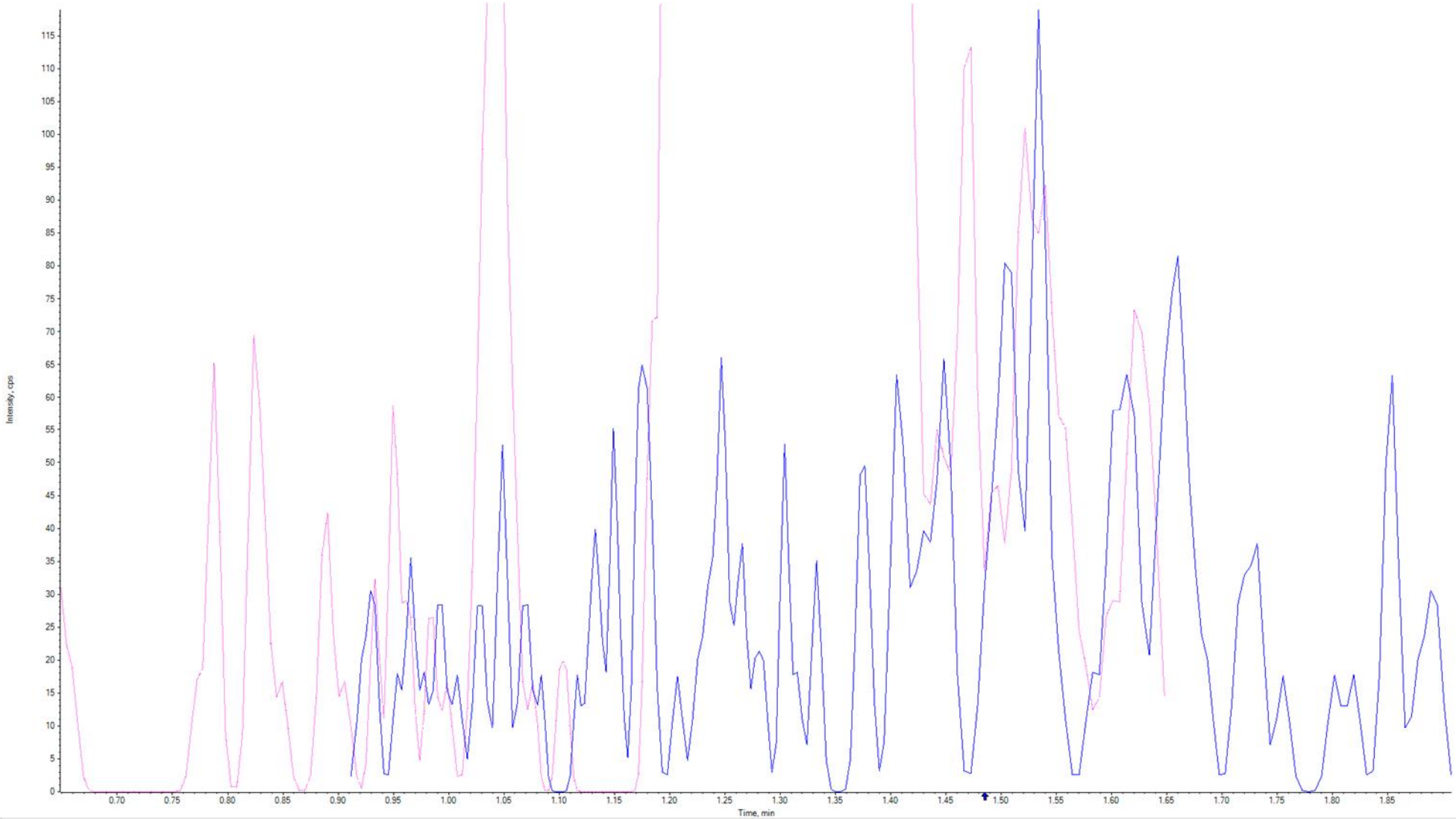
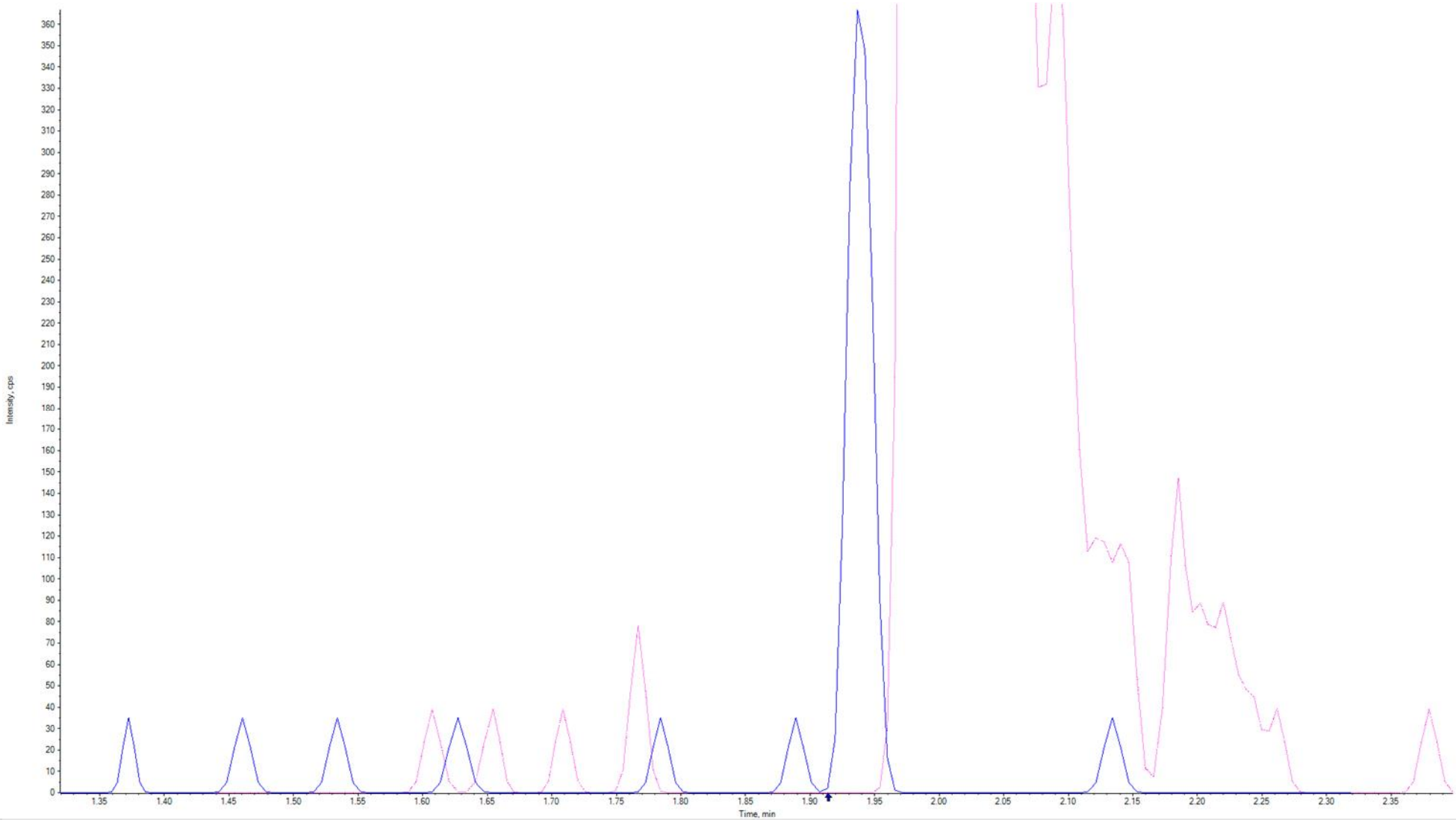
Generated: 12/20/2024 10:43:43 AM

PFMBA
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_40.wiff2_7
Last Altered: 12/20/2024 12:29:45 PM
Generated: 12/20/2024 10:43:43 AM

NFDHA
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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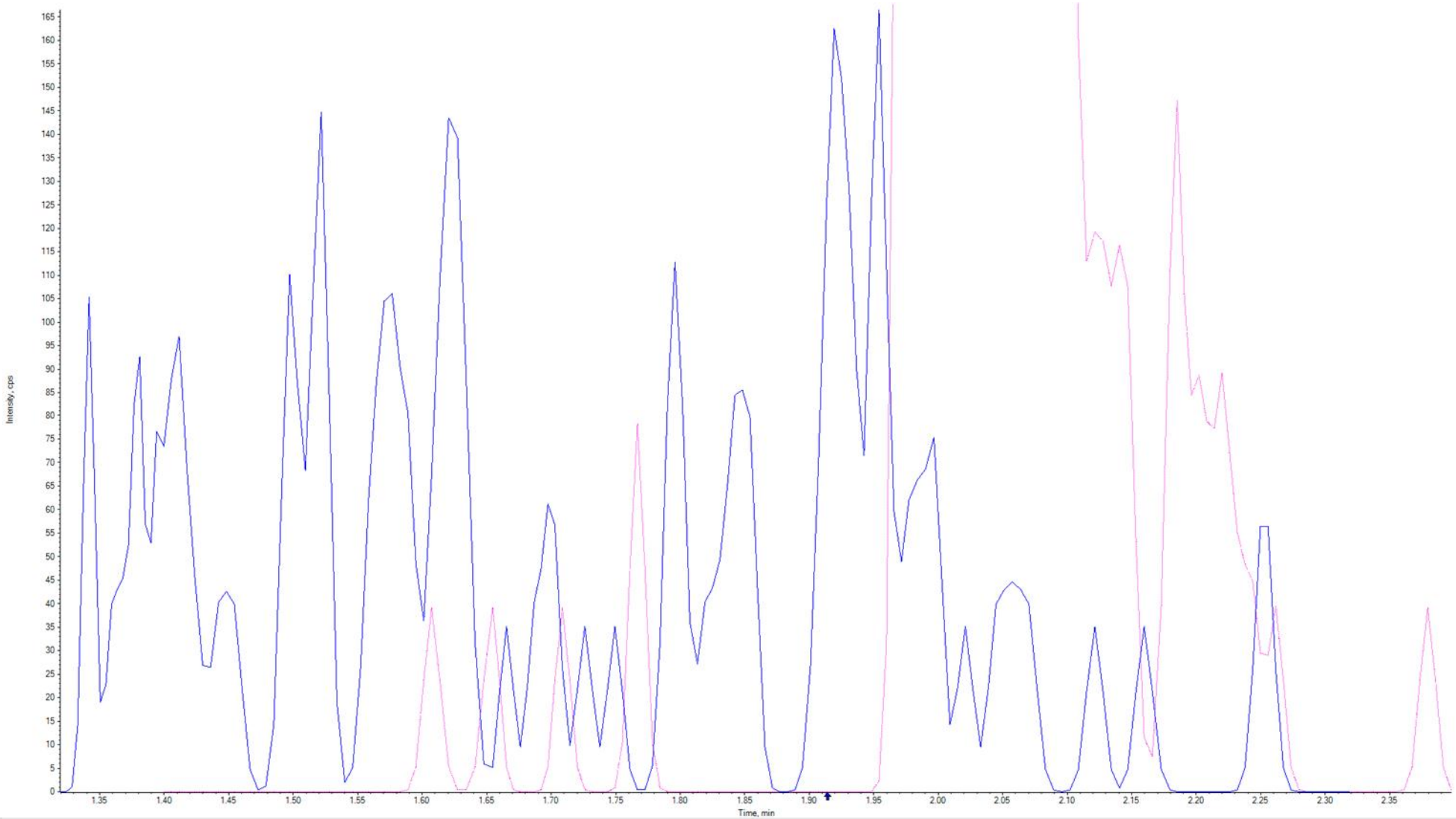
NFDHA_2
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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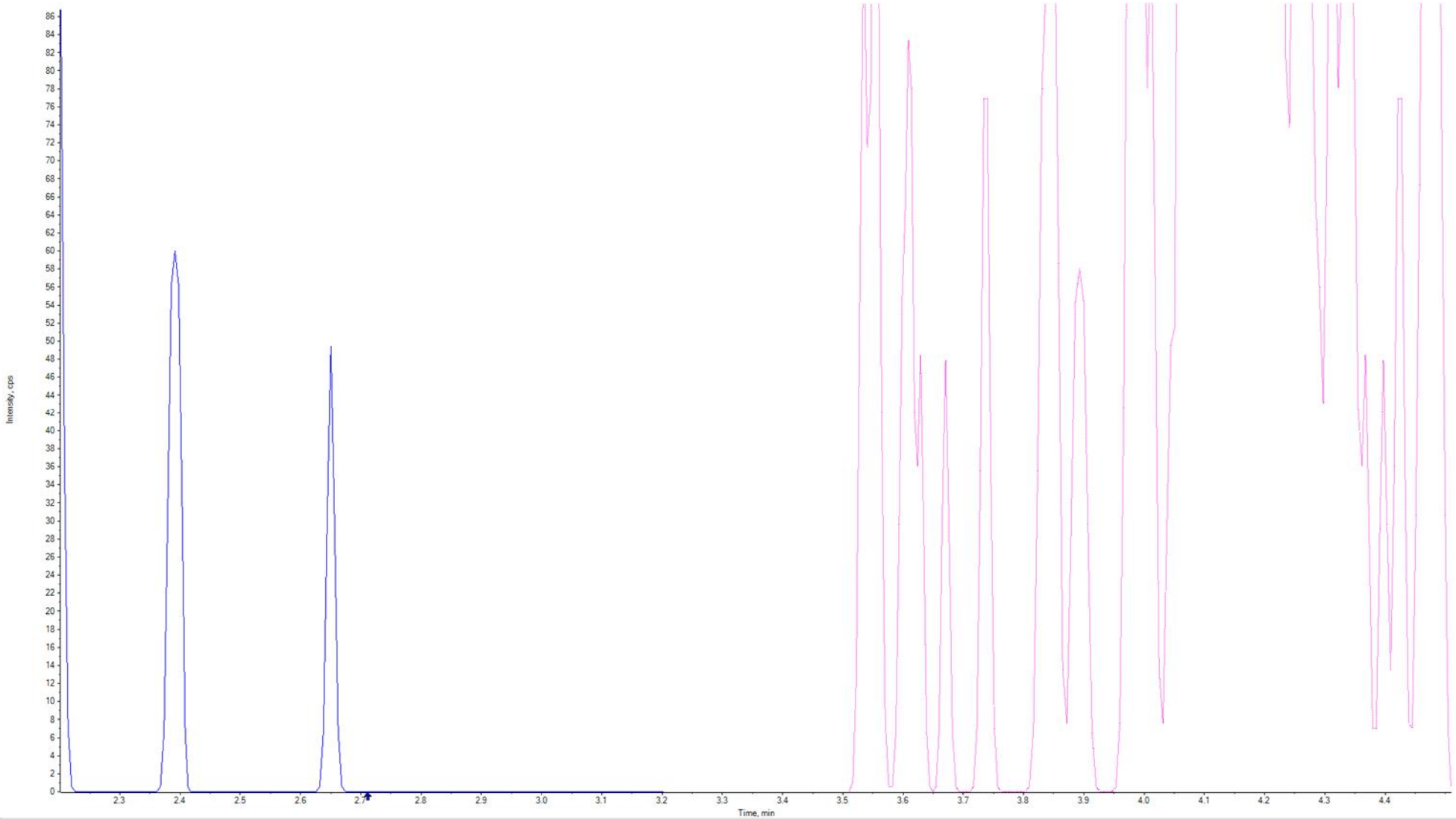
TDCA
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



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Alpha Analytical LLC
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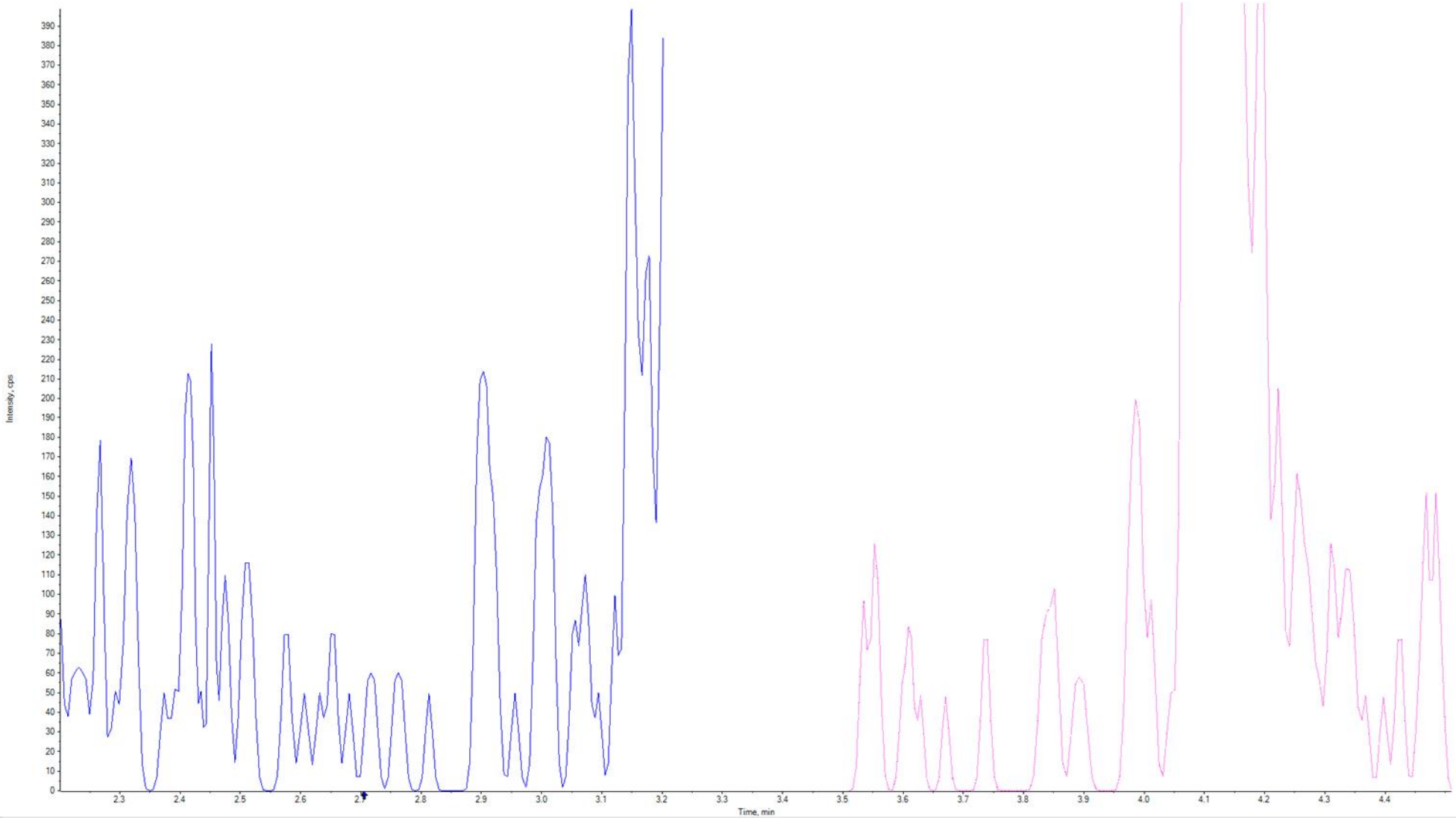
TDCA_2
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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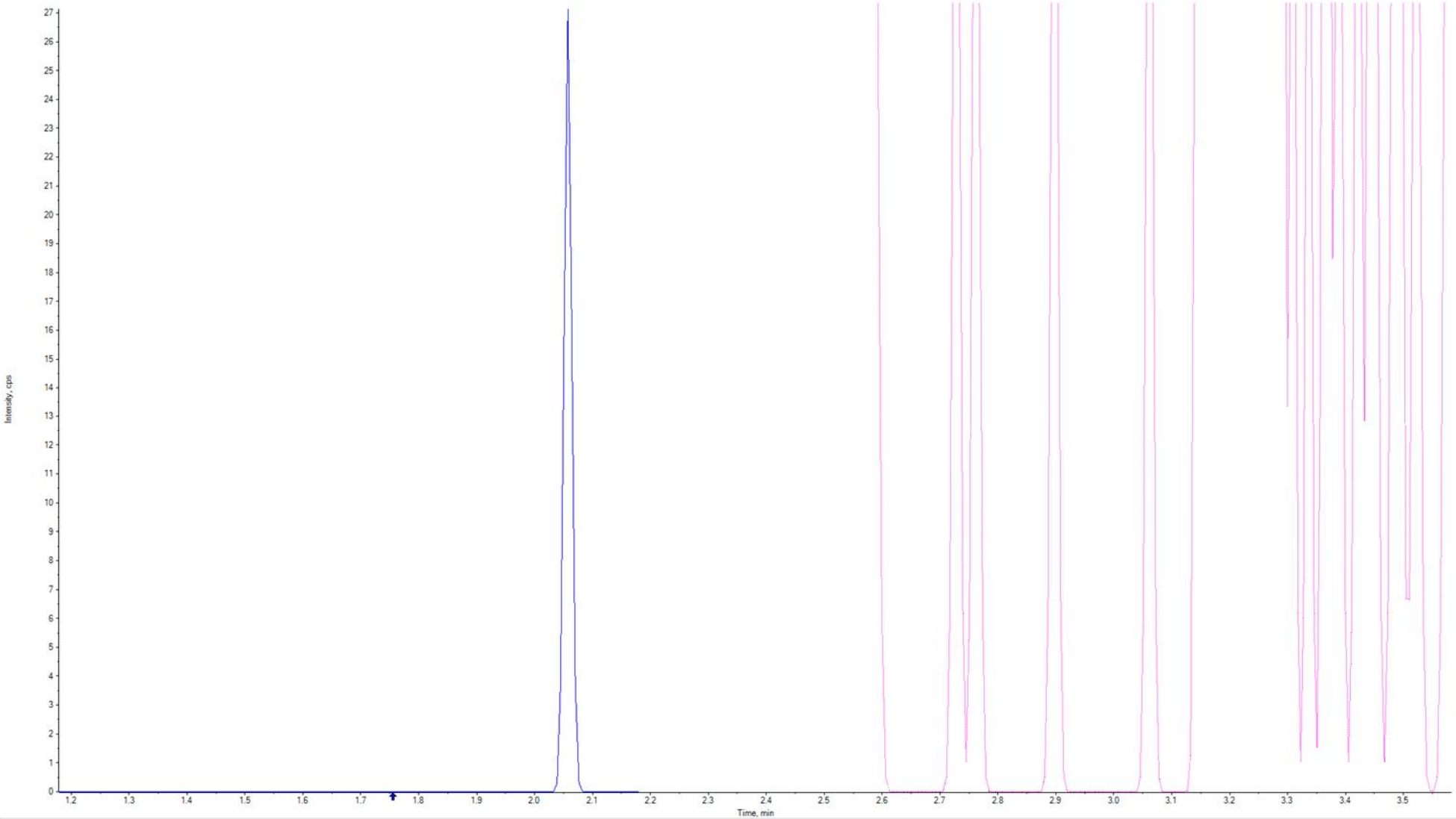
13C2D4-4:2FTS
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



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Alpha Analytical LLC
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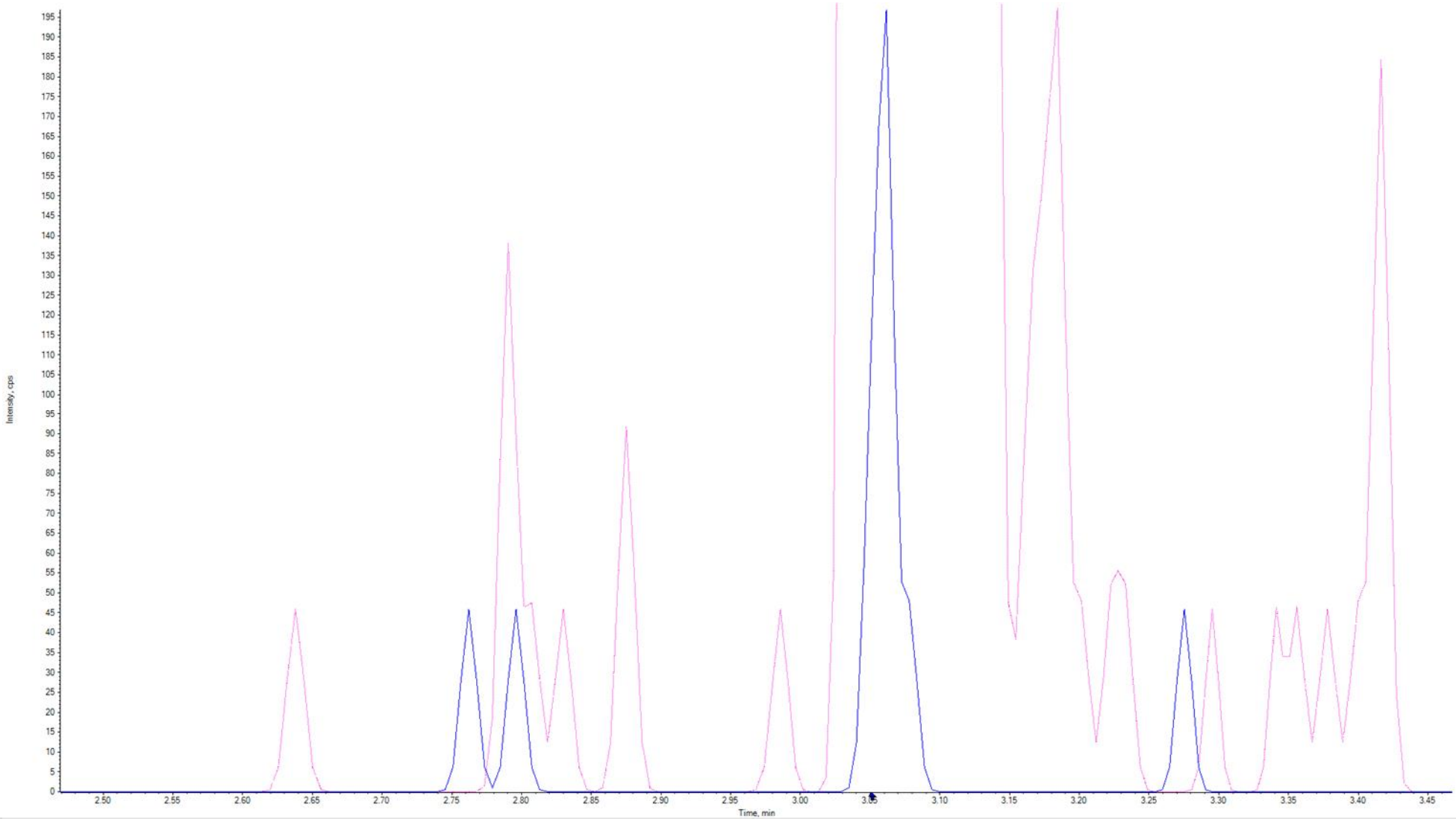
13C2-PFOA
Sample: L2470744-13 S/N:N/A Points Across peak:N/A



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13C4-PFBA
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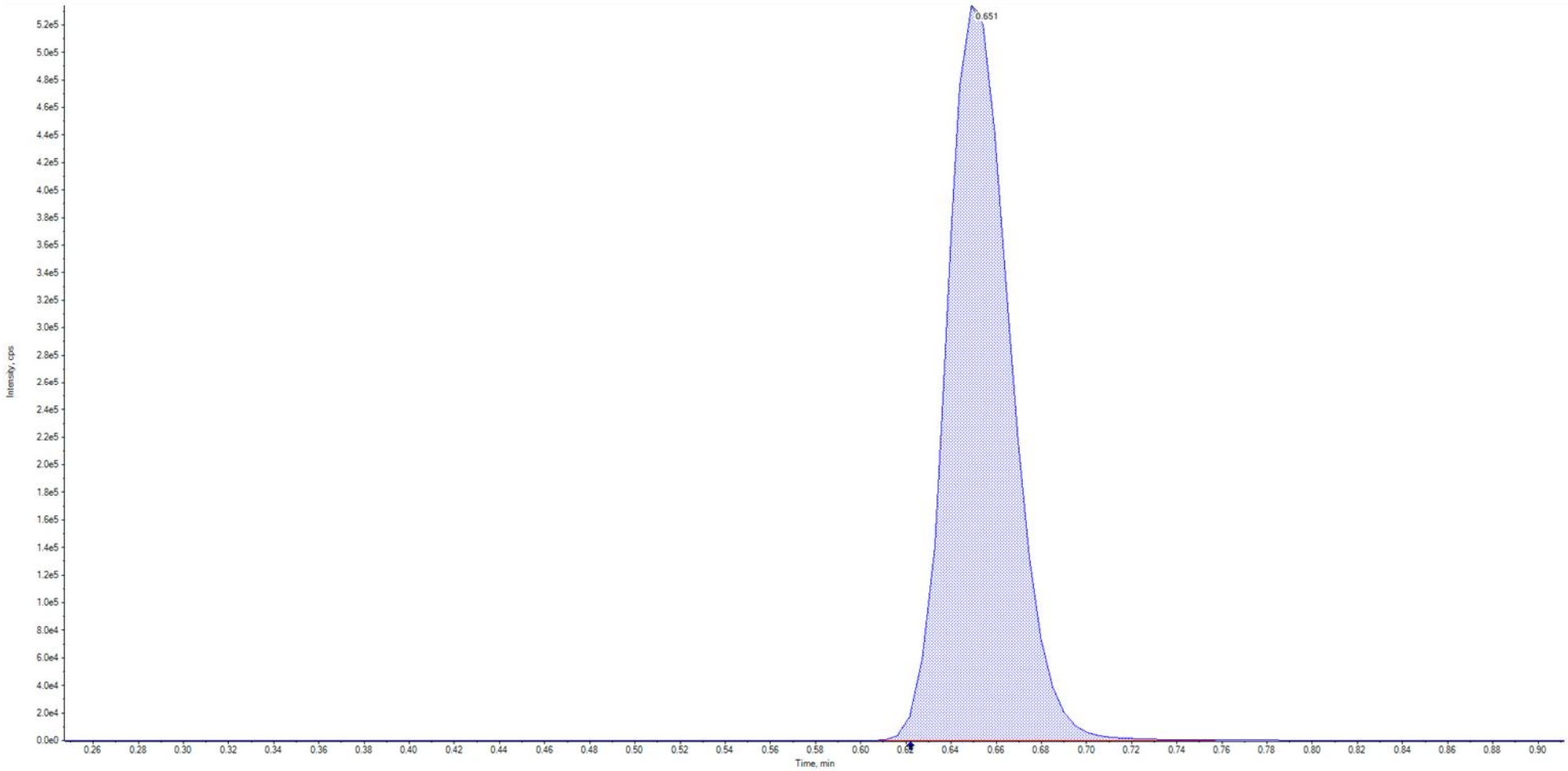

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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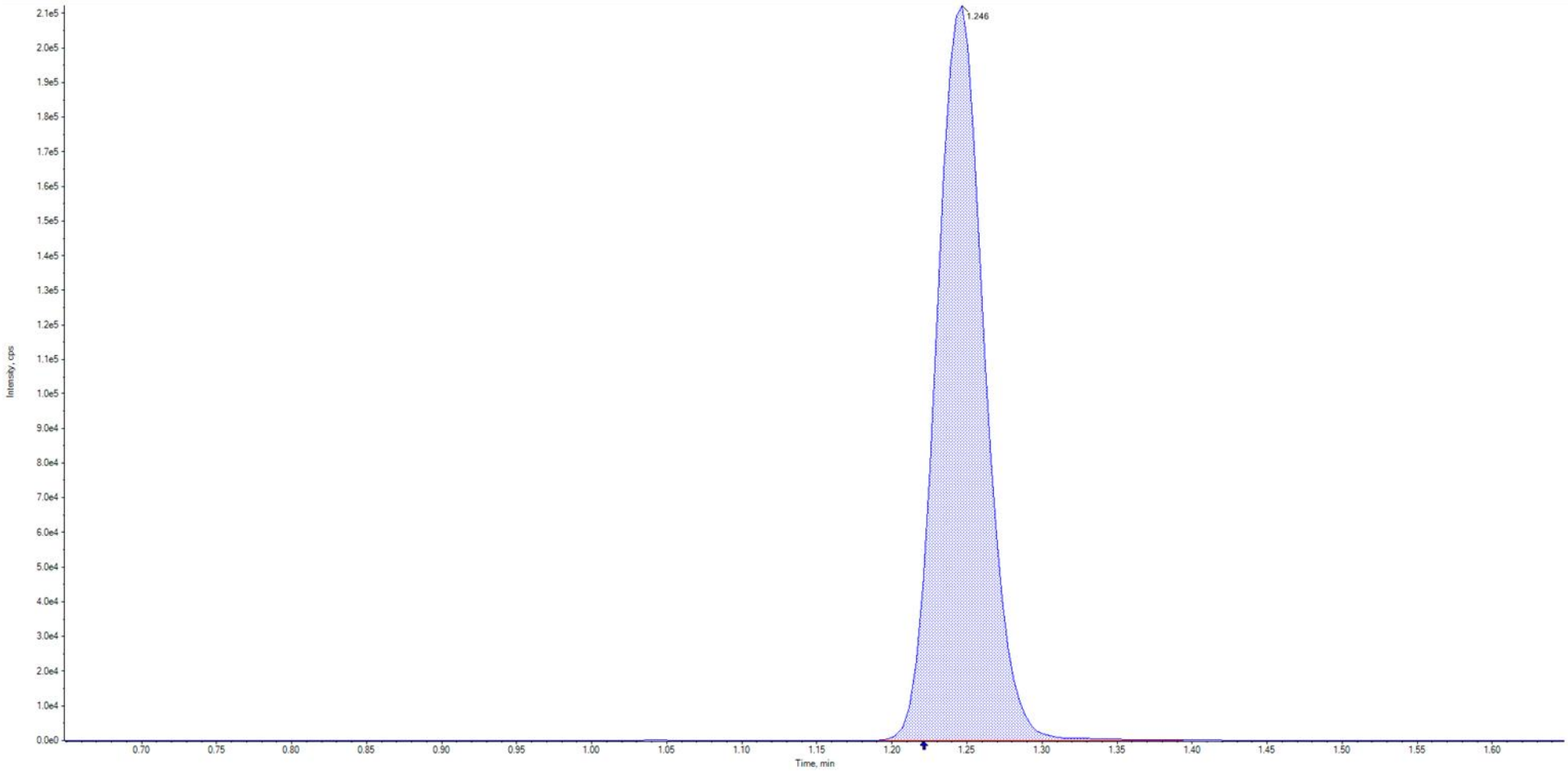
13C5-PFPeA
Sample: L2470744-13



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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13C5-PFHxA
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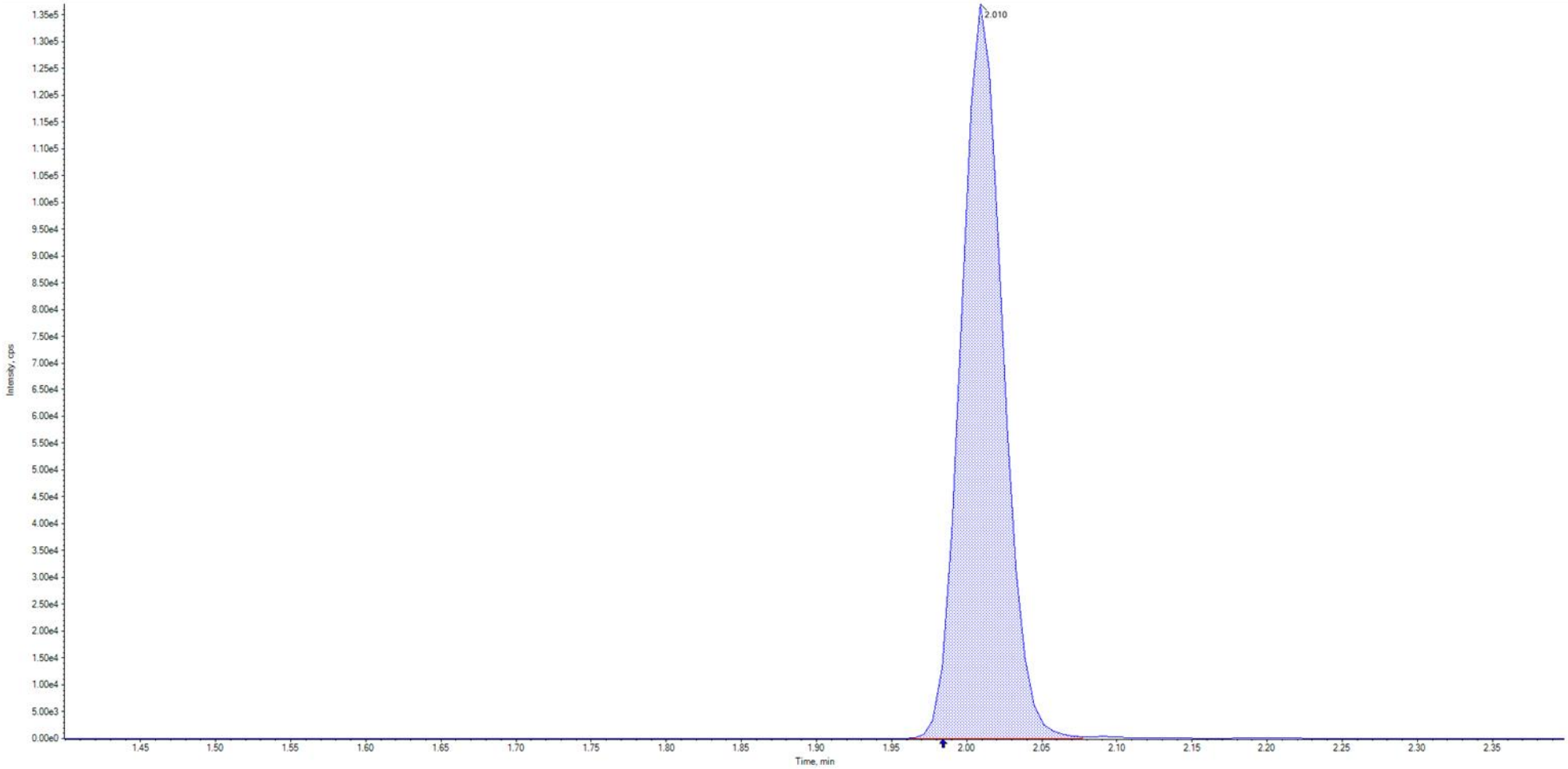

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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13C4-PFHpA
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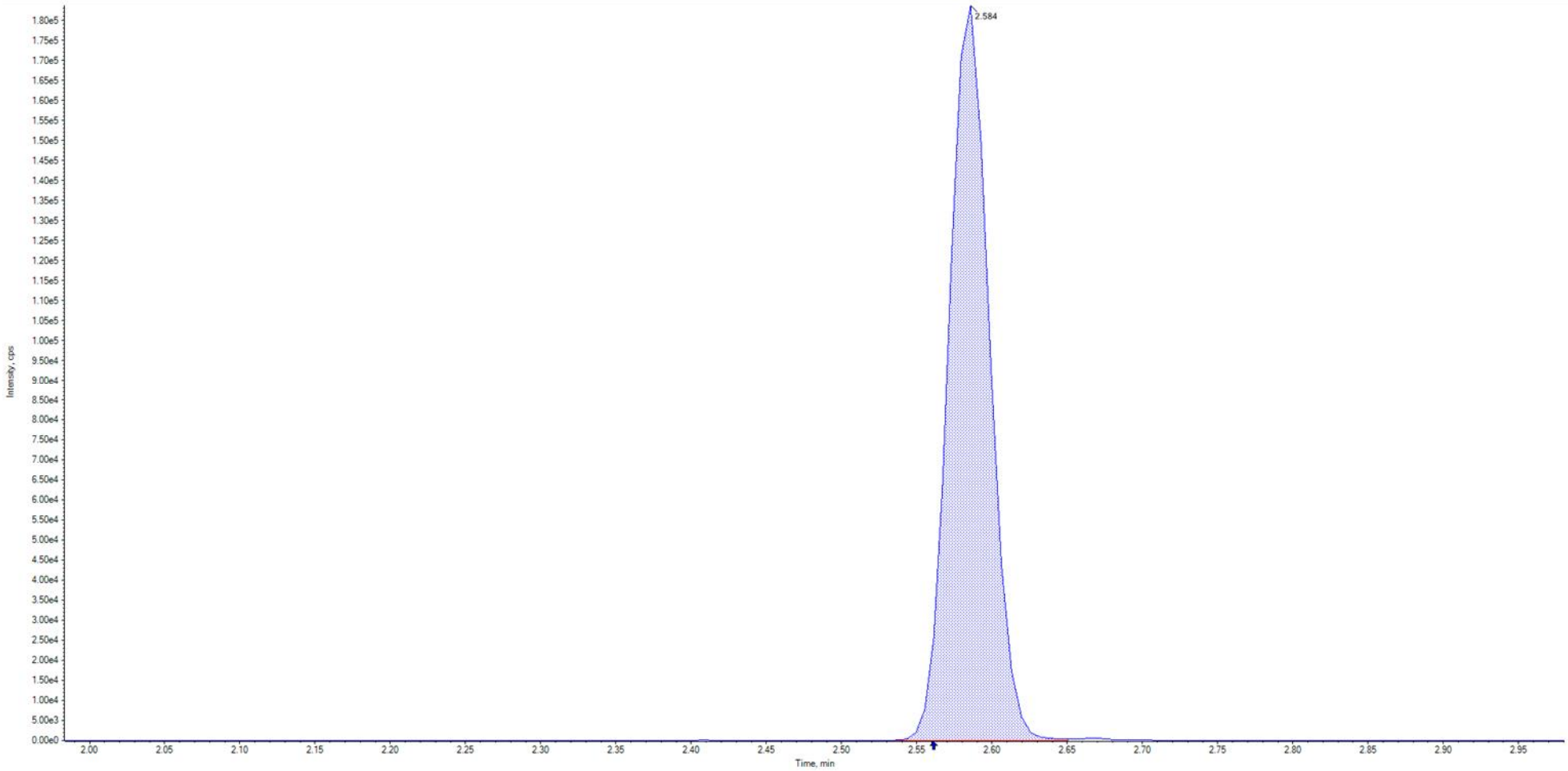

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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13C8-PFOA
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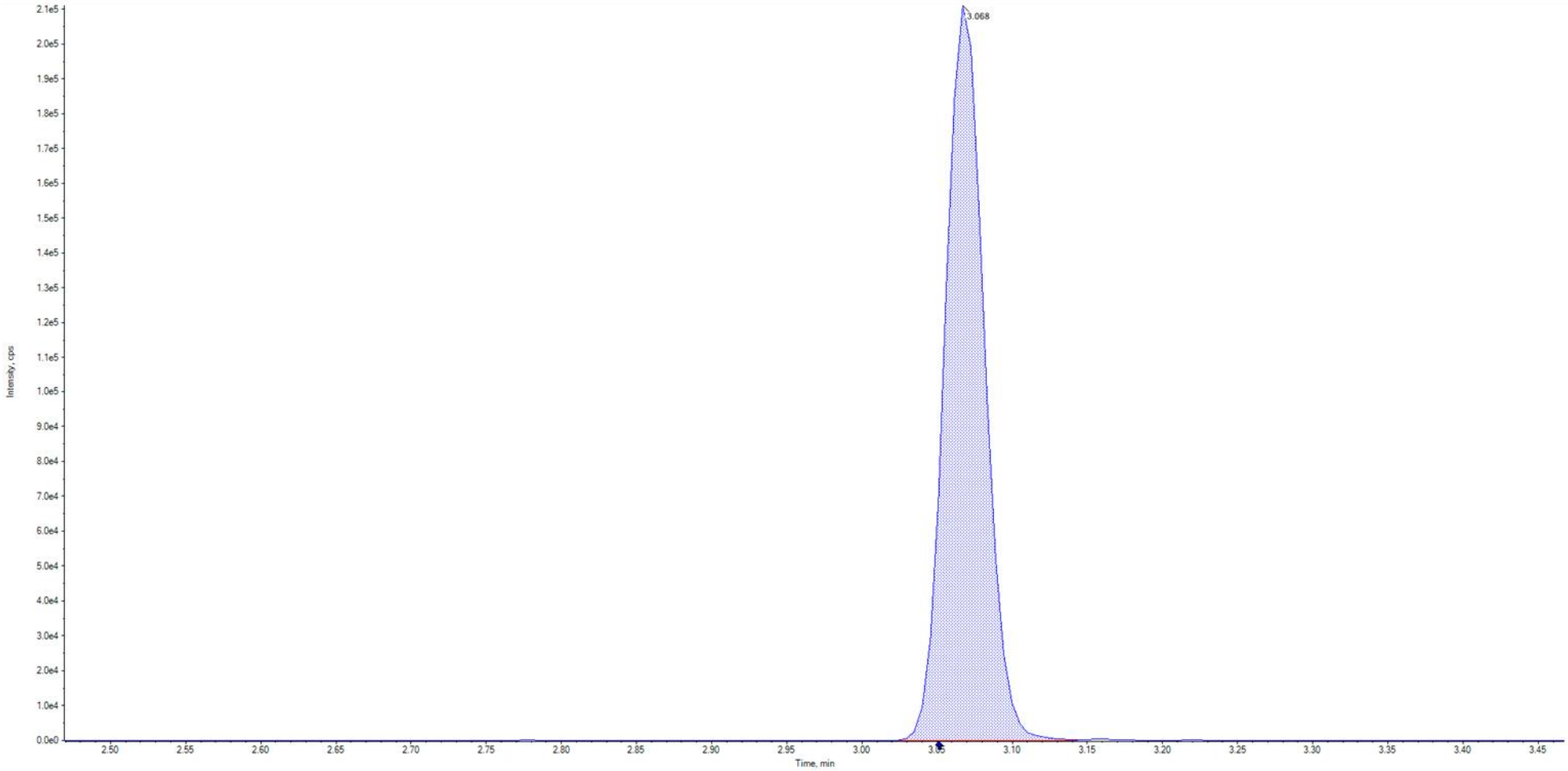

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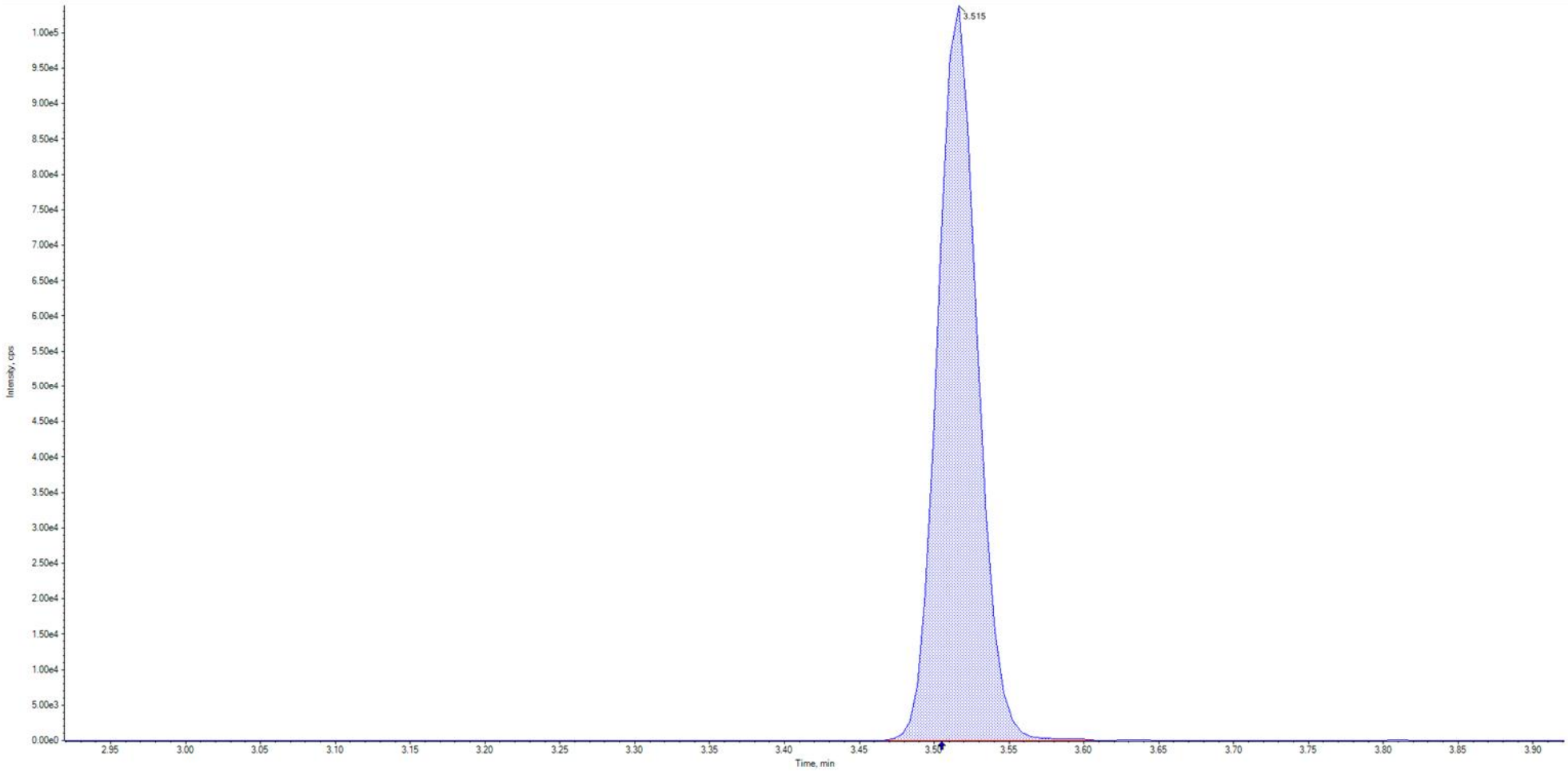
13C9-PFNA
Sample: L2470744-13



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13C6-PFDA
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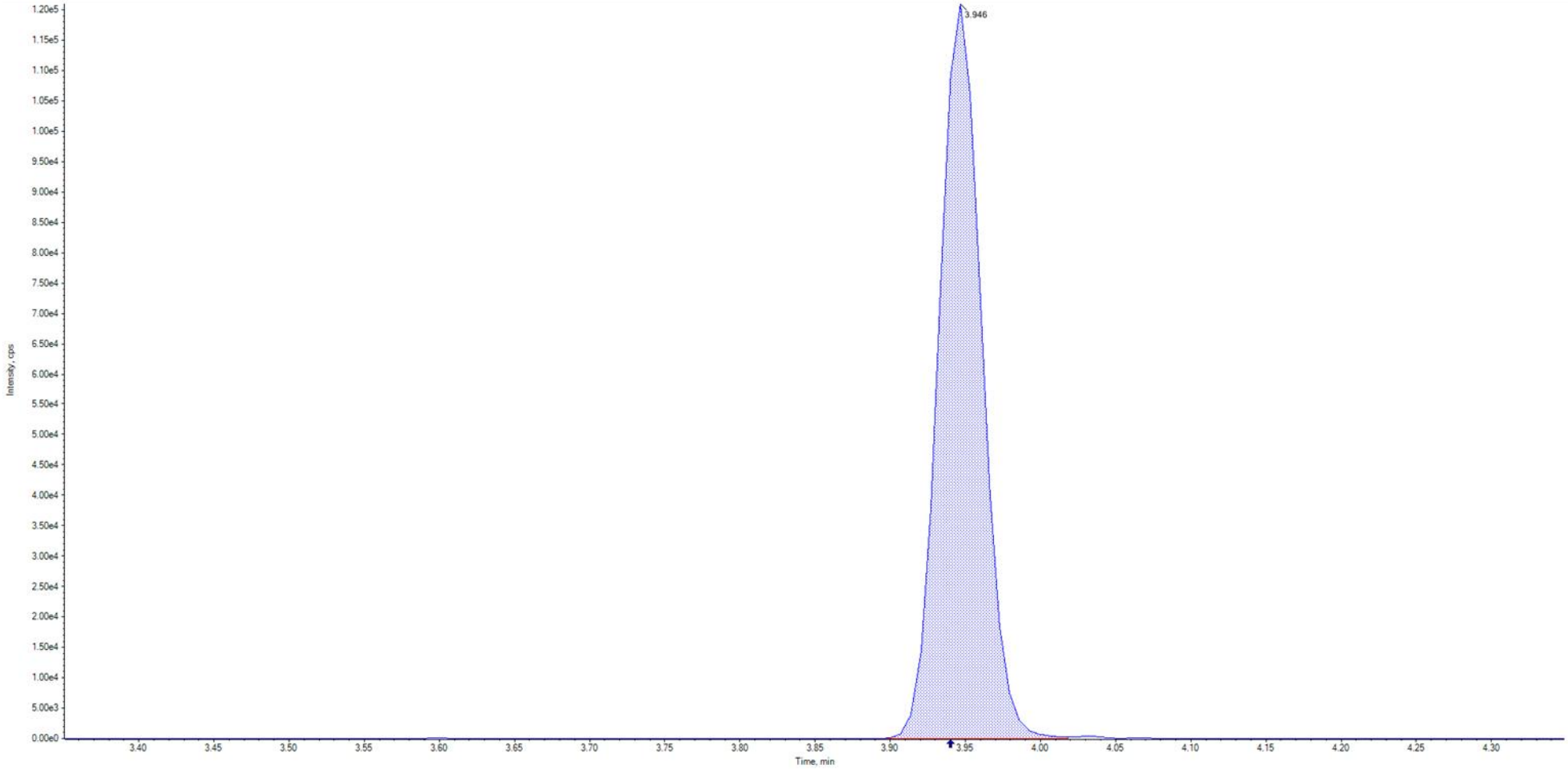

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13C7-PFUnA
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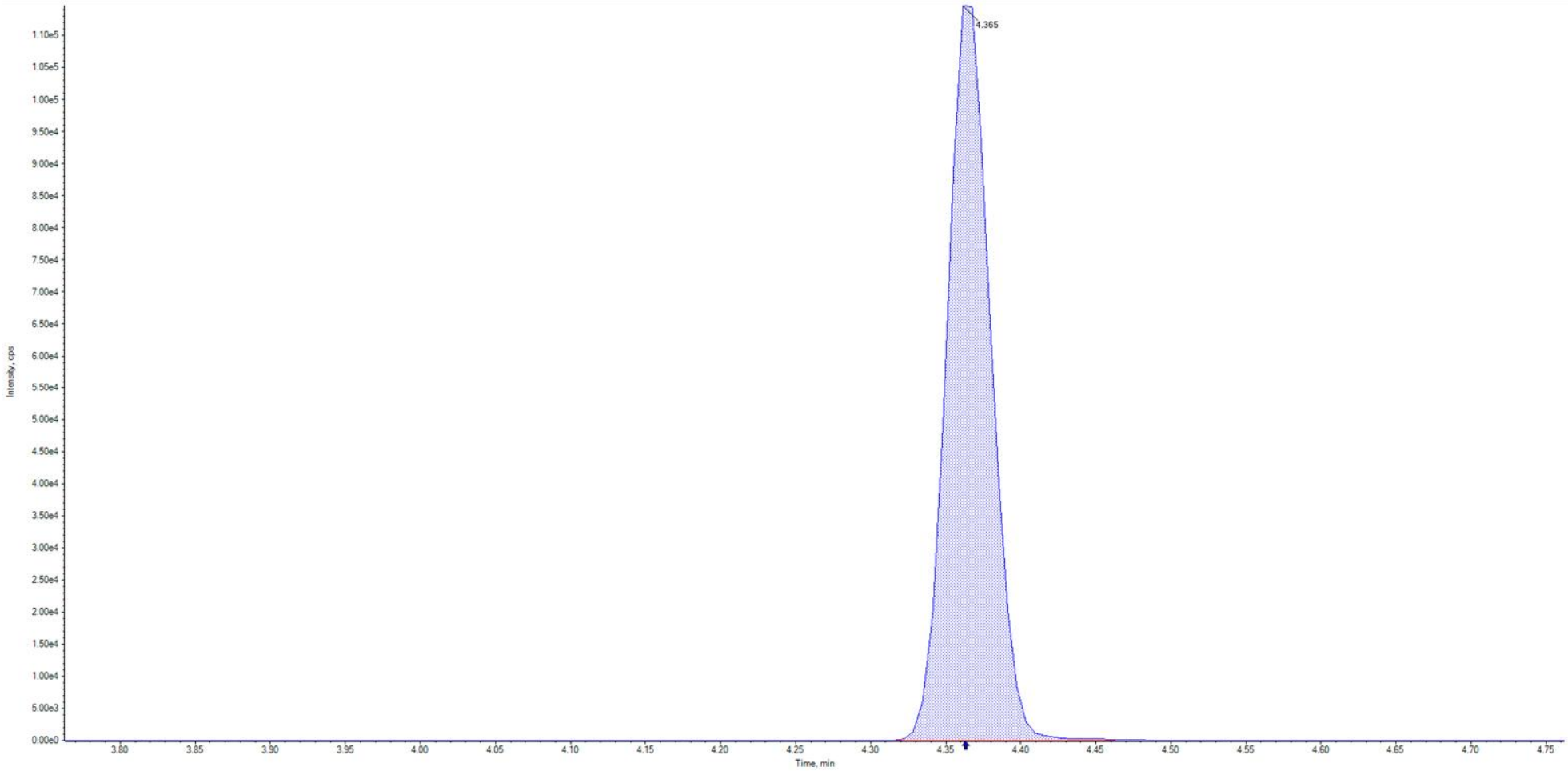

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13C2-PFDoA
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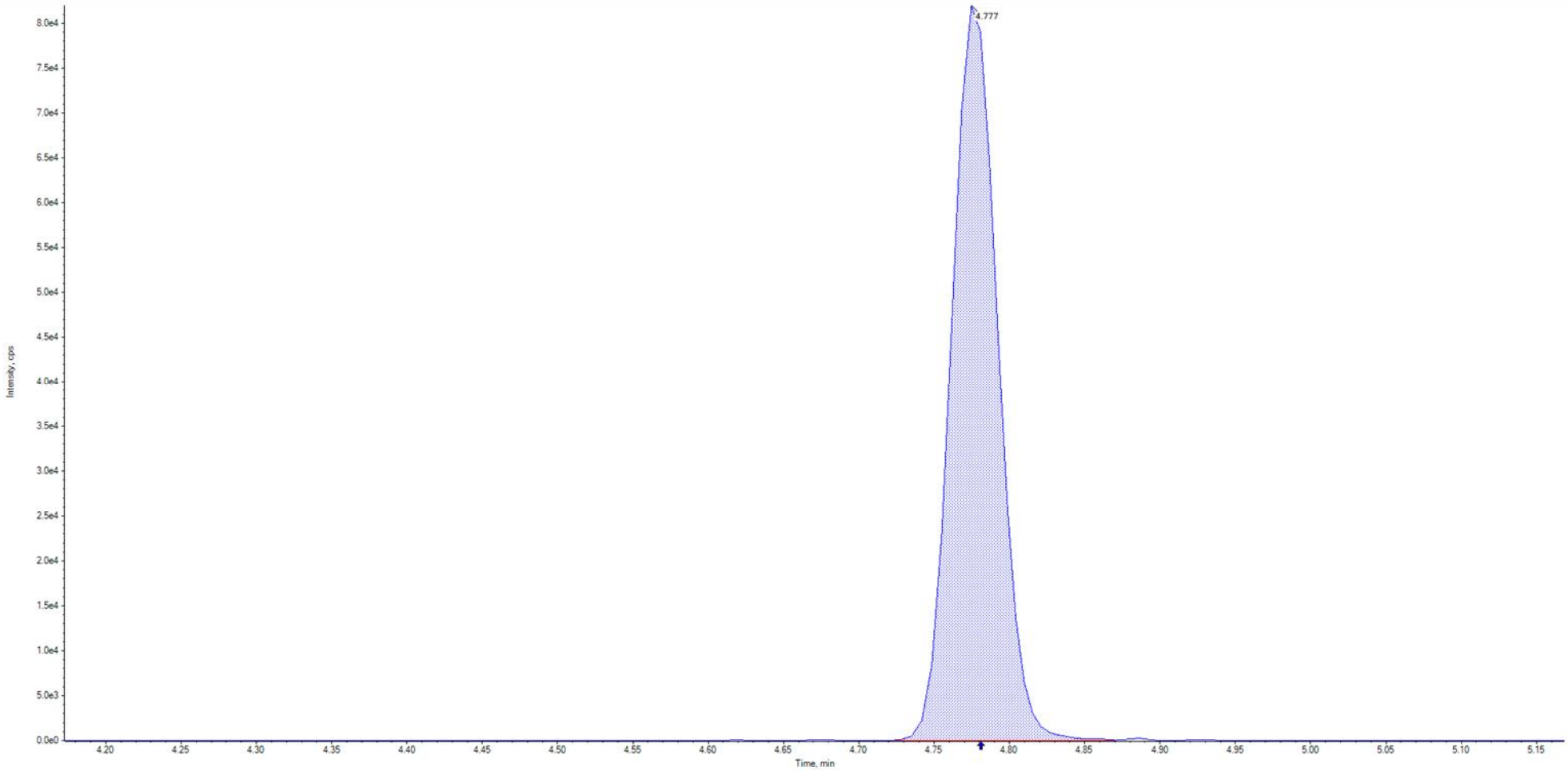

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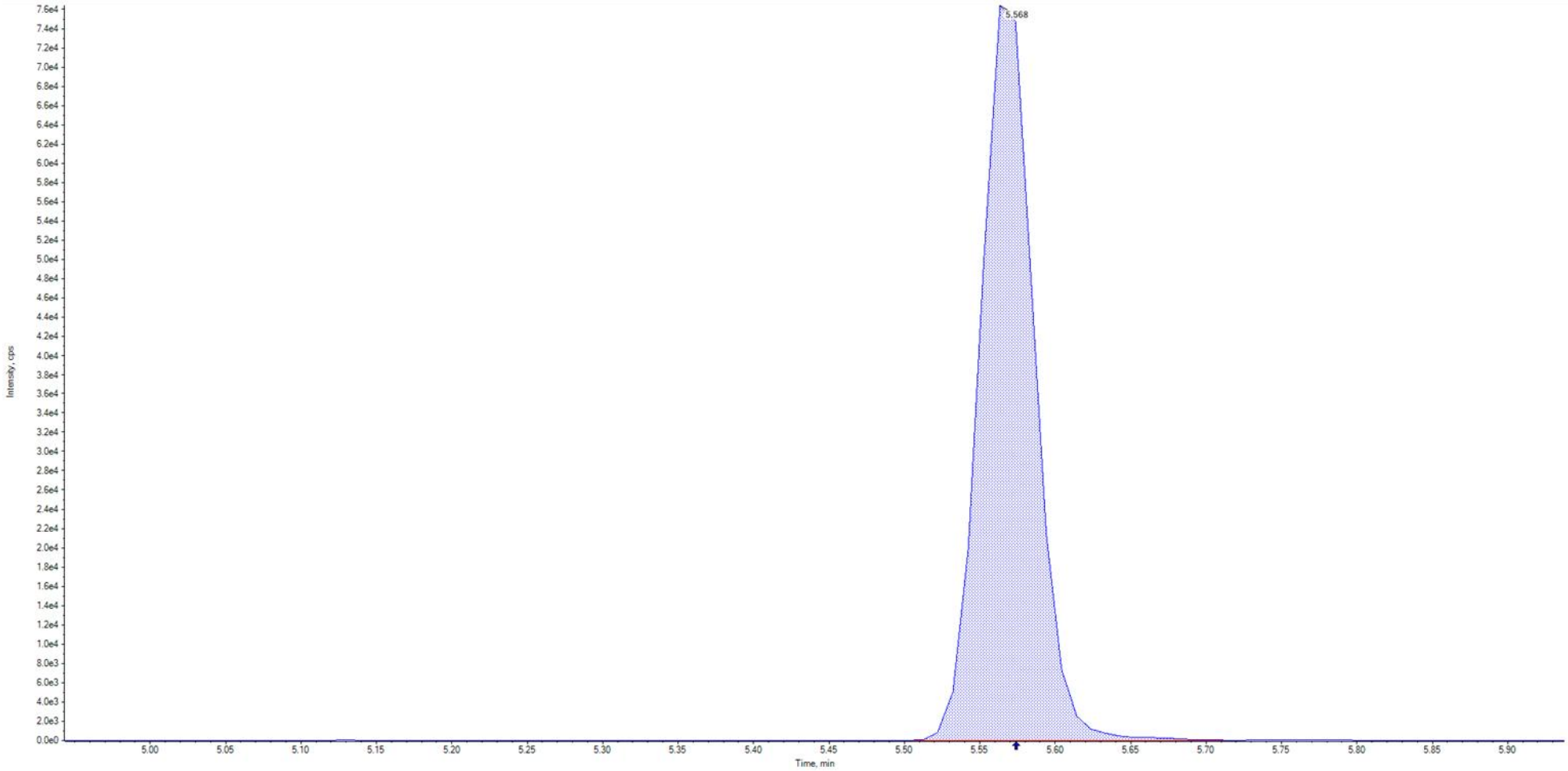
13C2-PFTeDA
Sample: L2470744-13



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Alpha Analytical LLC
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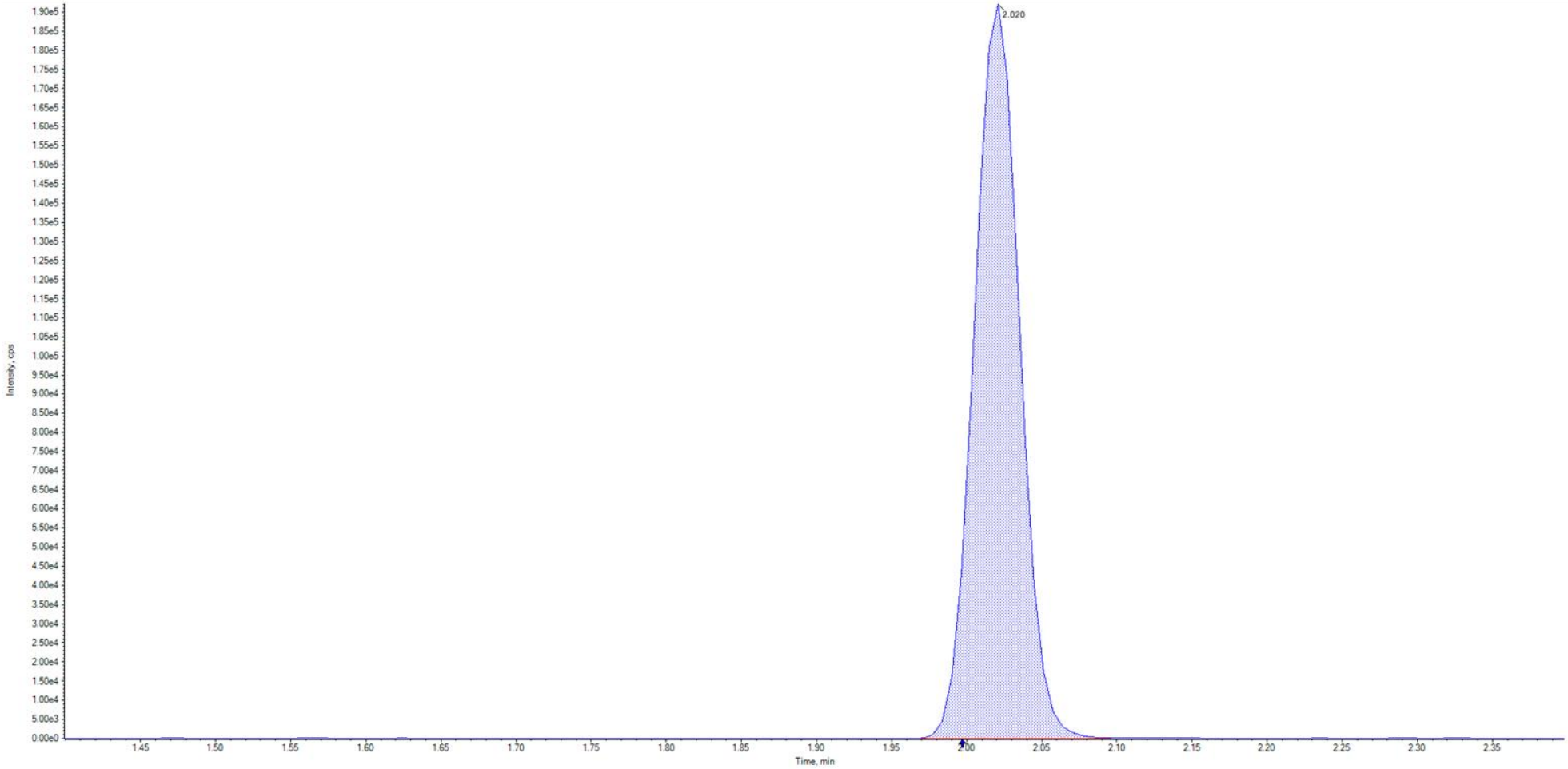
13C3-PFBS
Sample: L2470744-13



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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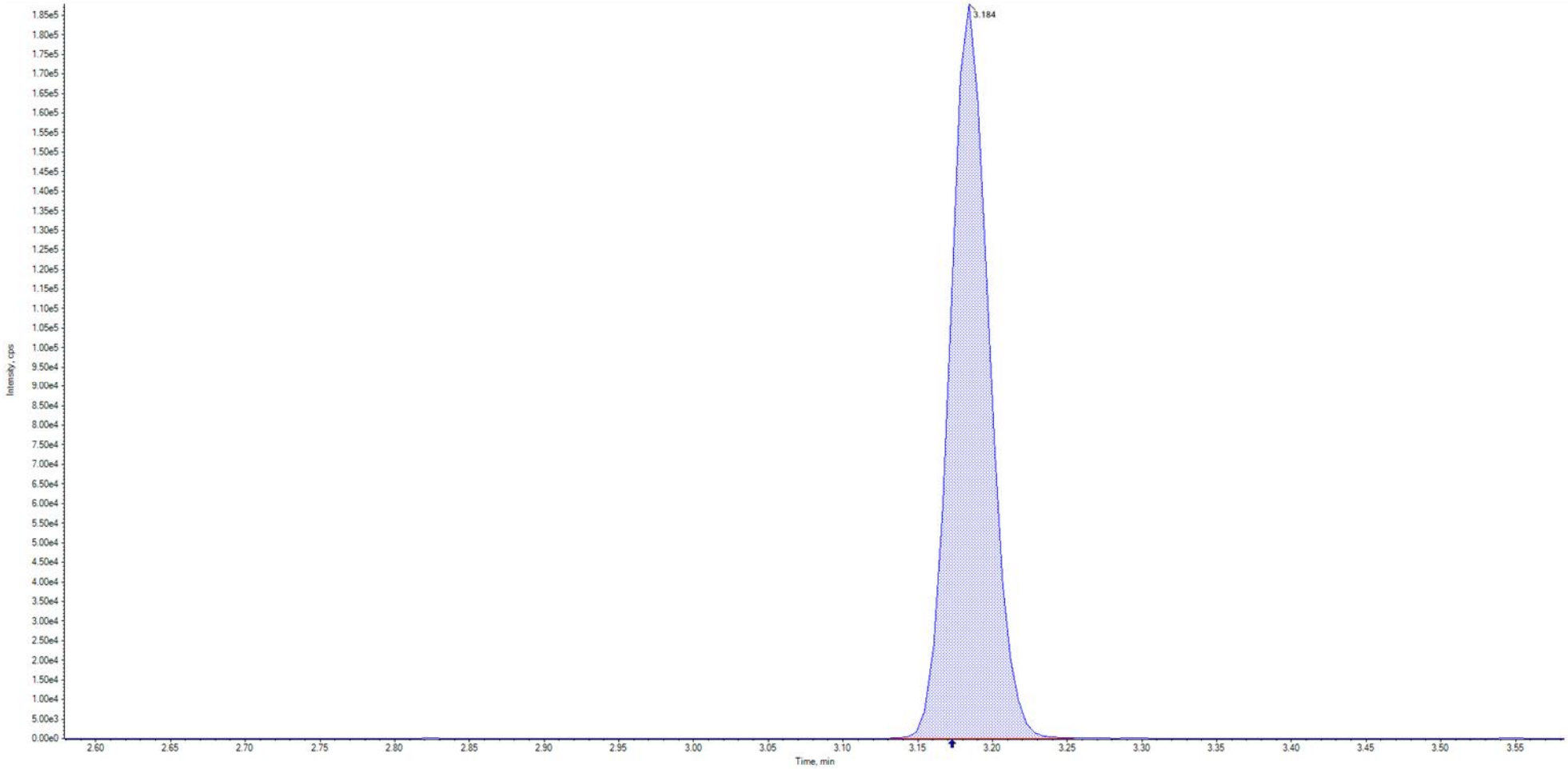
13C3-PFHxS
Sample: L2470744-13



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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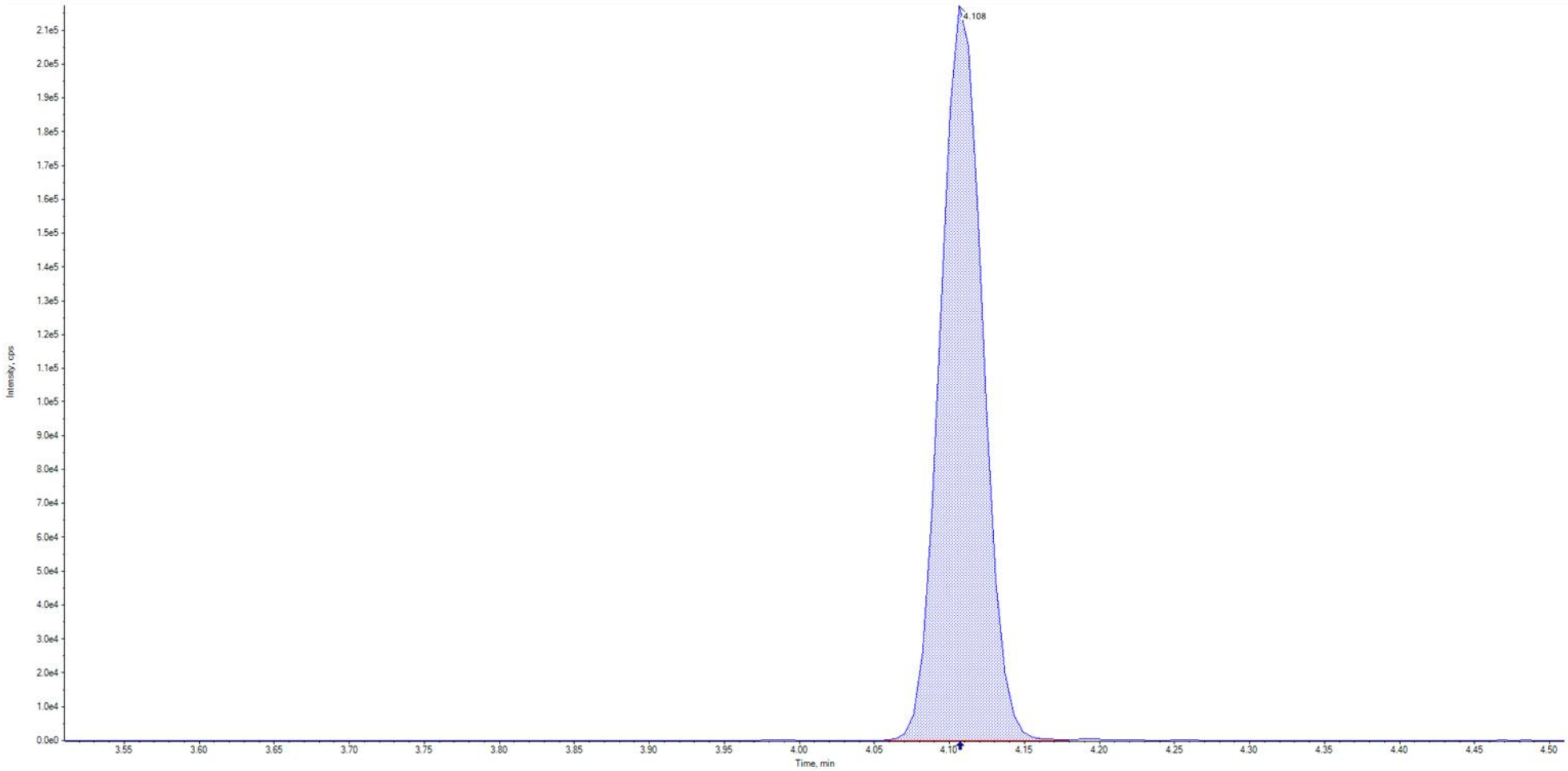
13C8-PFOS
Sample: L2470744-13



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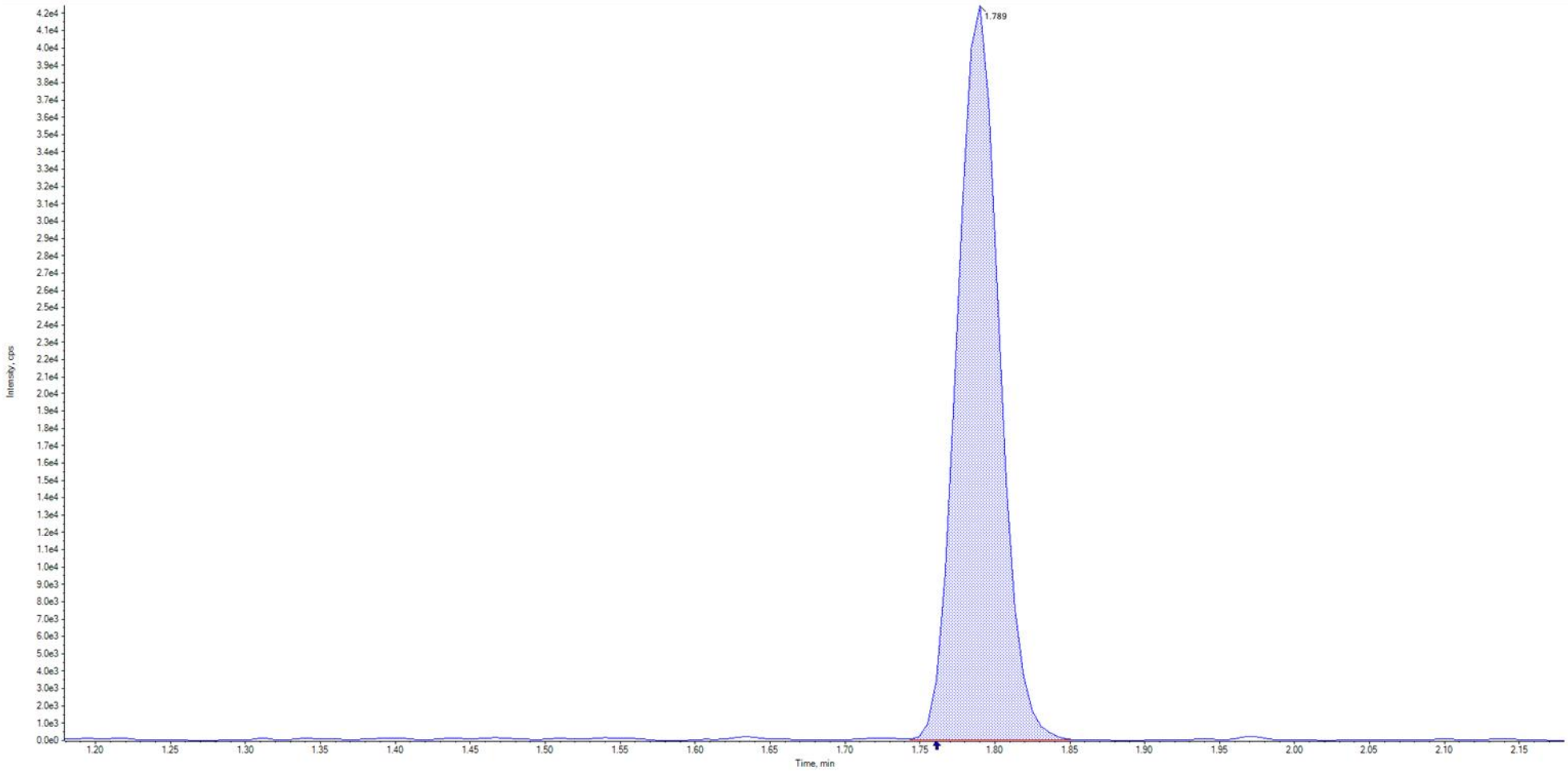
13C2-4:2FTS
Sample: L2470744-13



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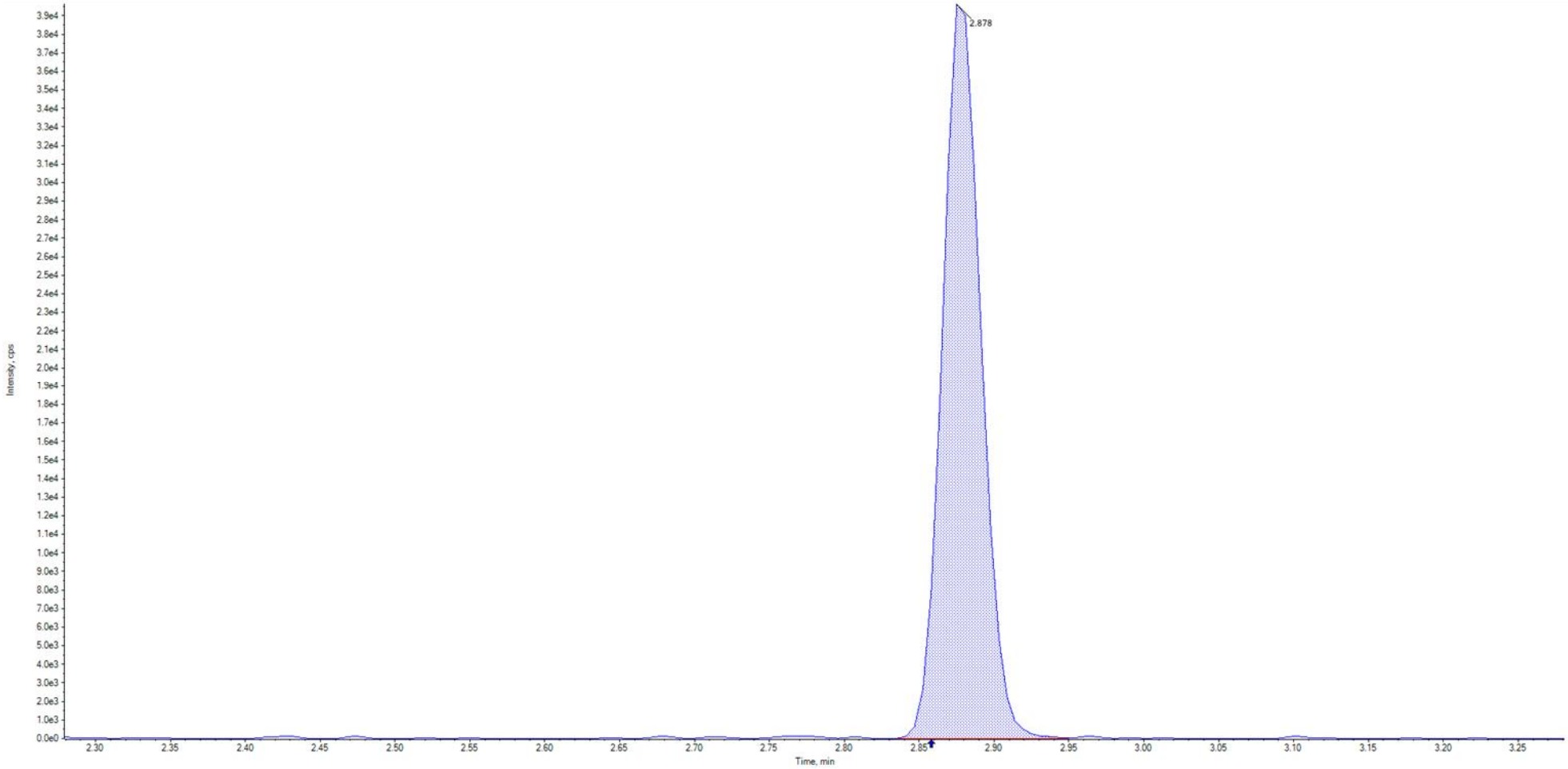
13C2-6:2FTS
Sample: L2470744-13



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Alpha Analytical LLC
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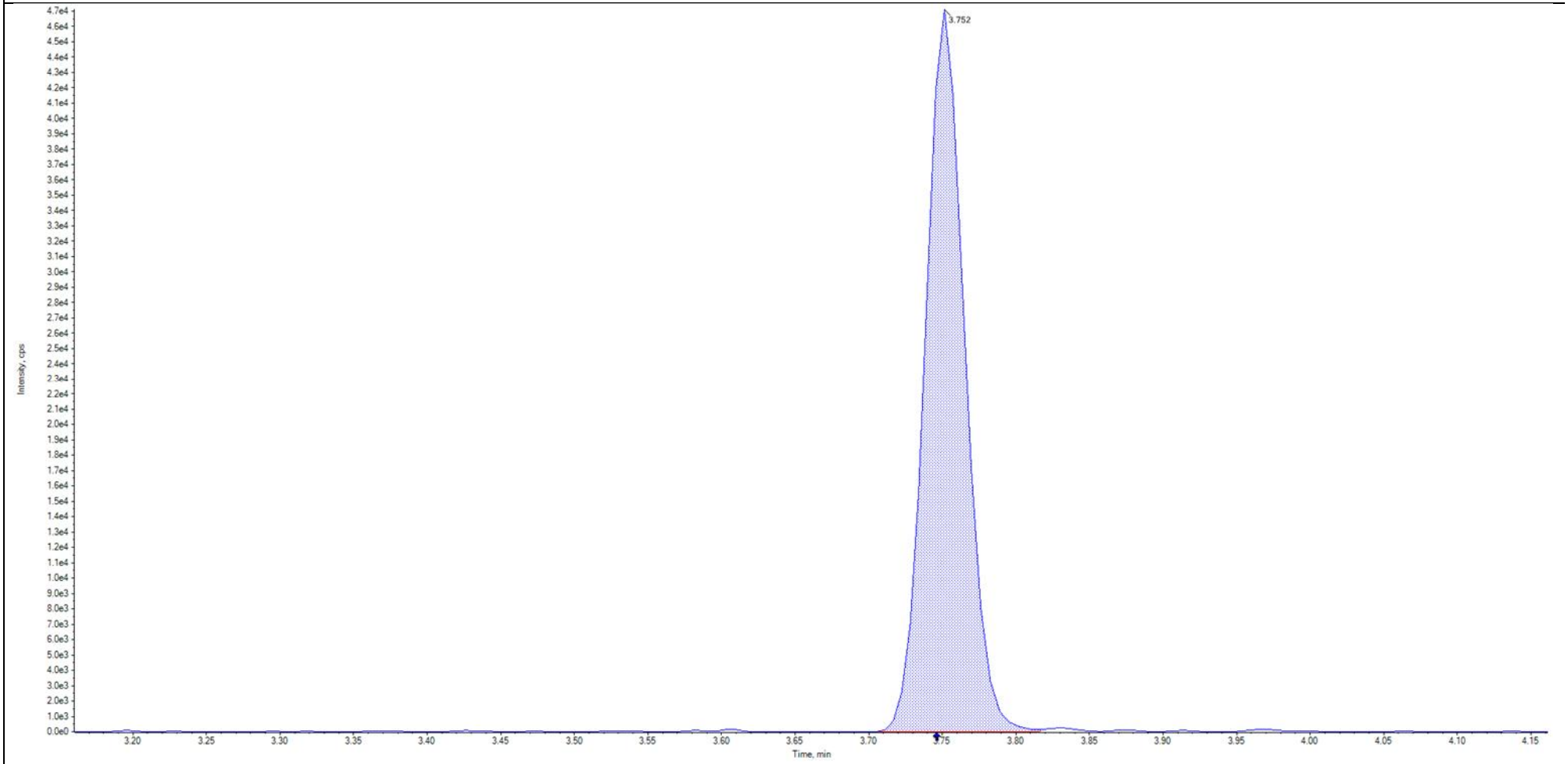
13C2-8:2FTS
Sample: L2470744-13



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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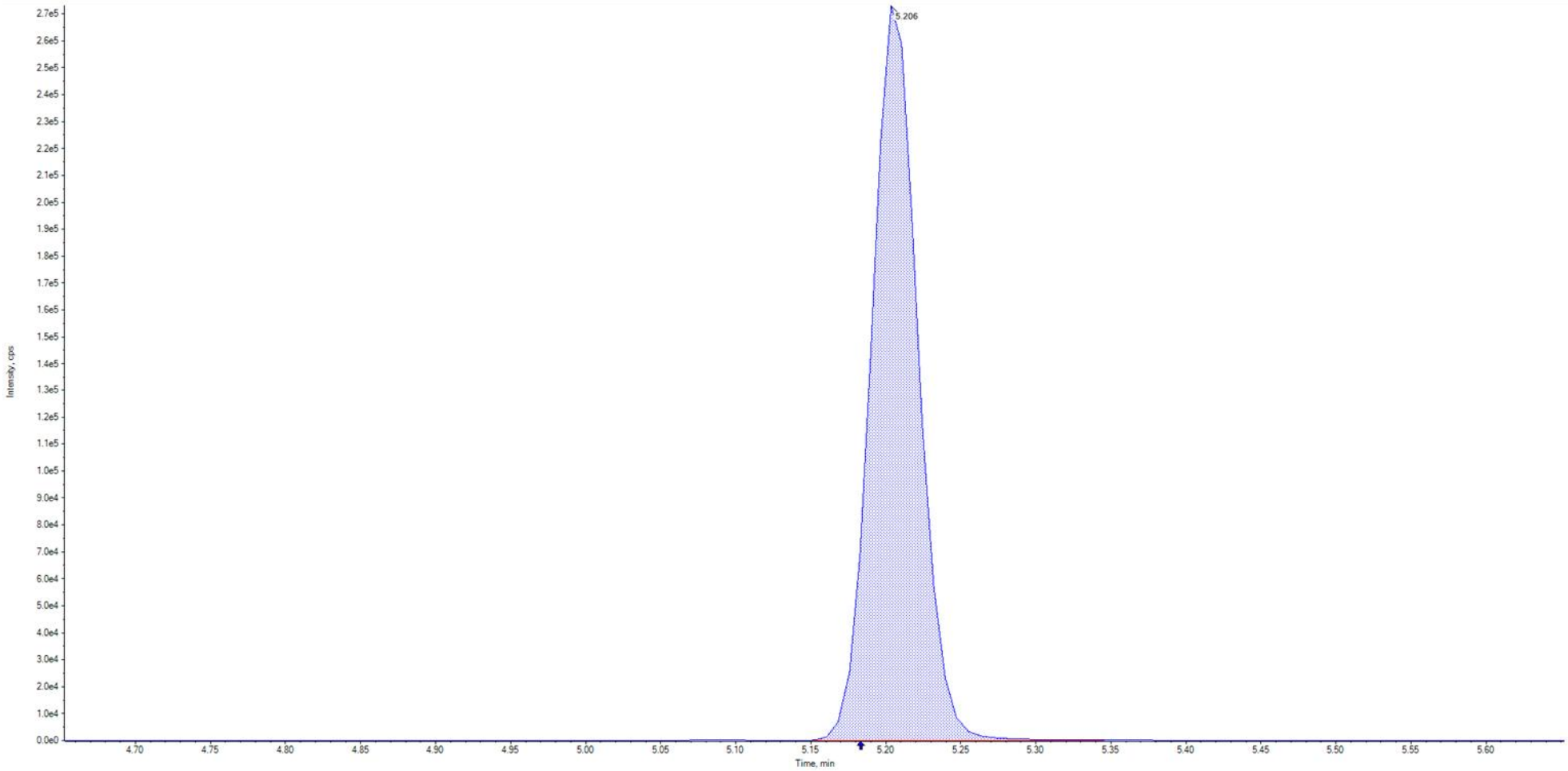
13C8-PFOSA
Sample: L2470744-13



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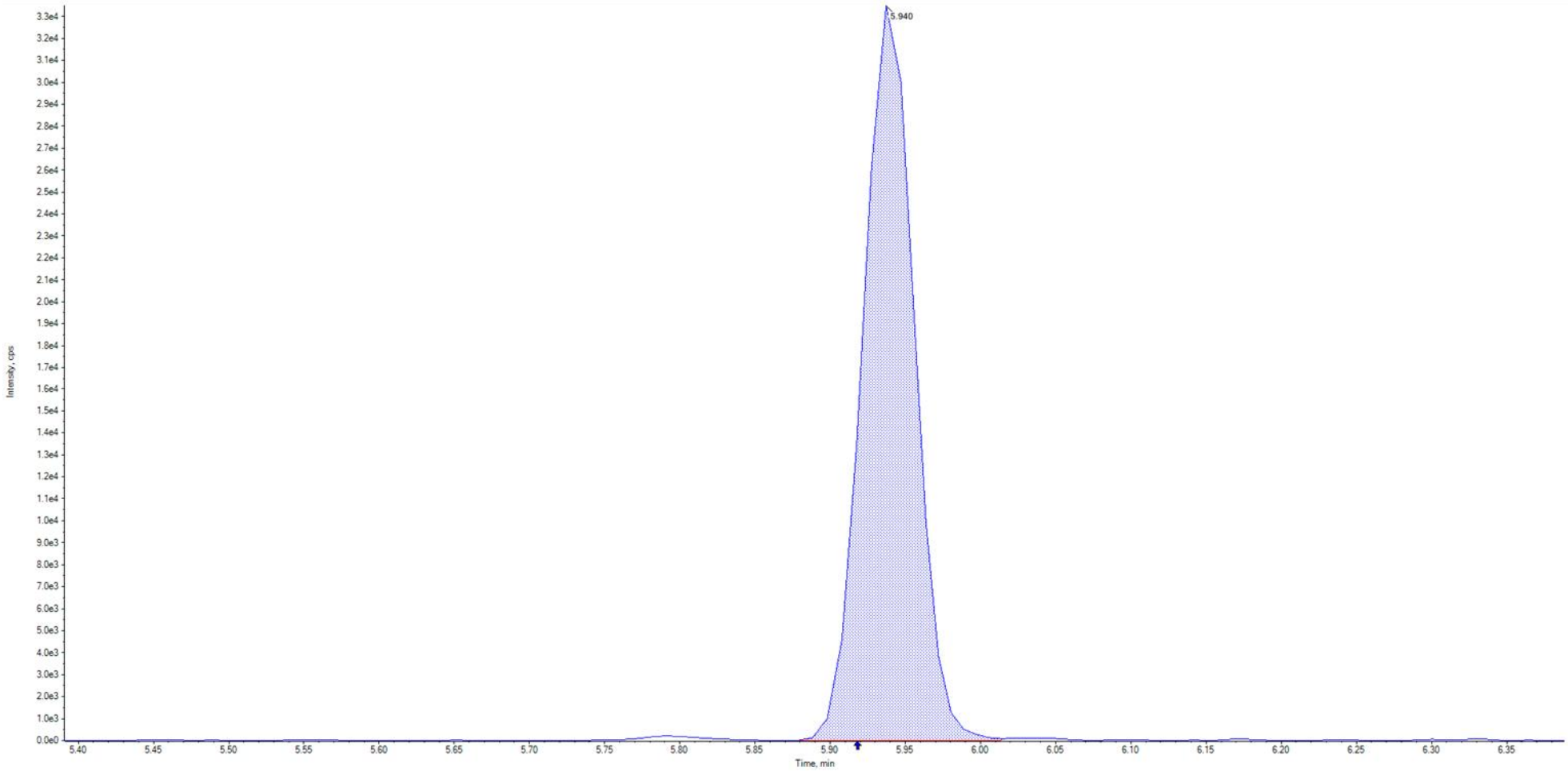
d3-NMeFOSA
Sample: L2470744-13



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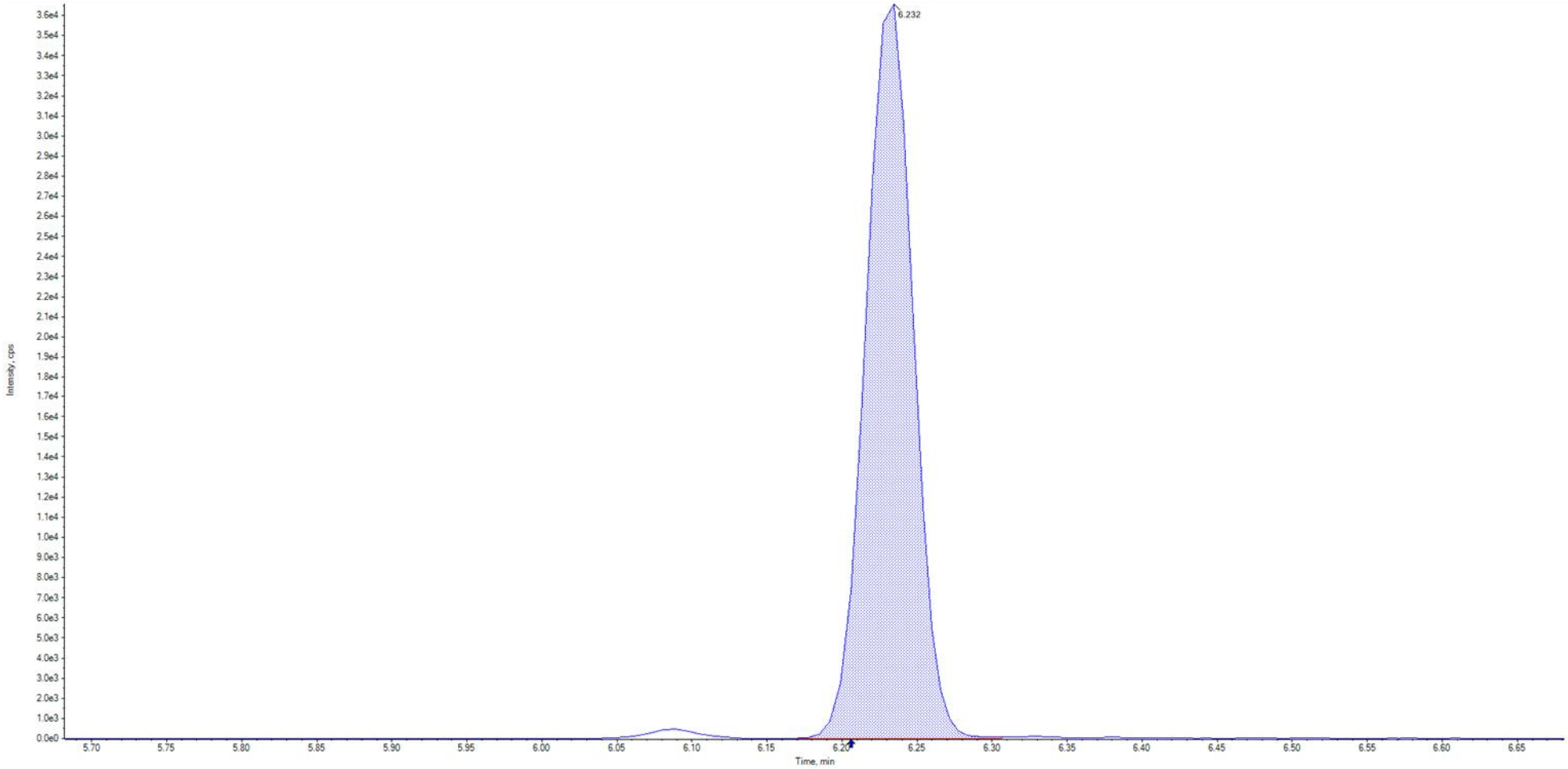
d5-NEtFOSA
Sample: L2470744-13



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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d3-NMeFOSAA
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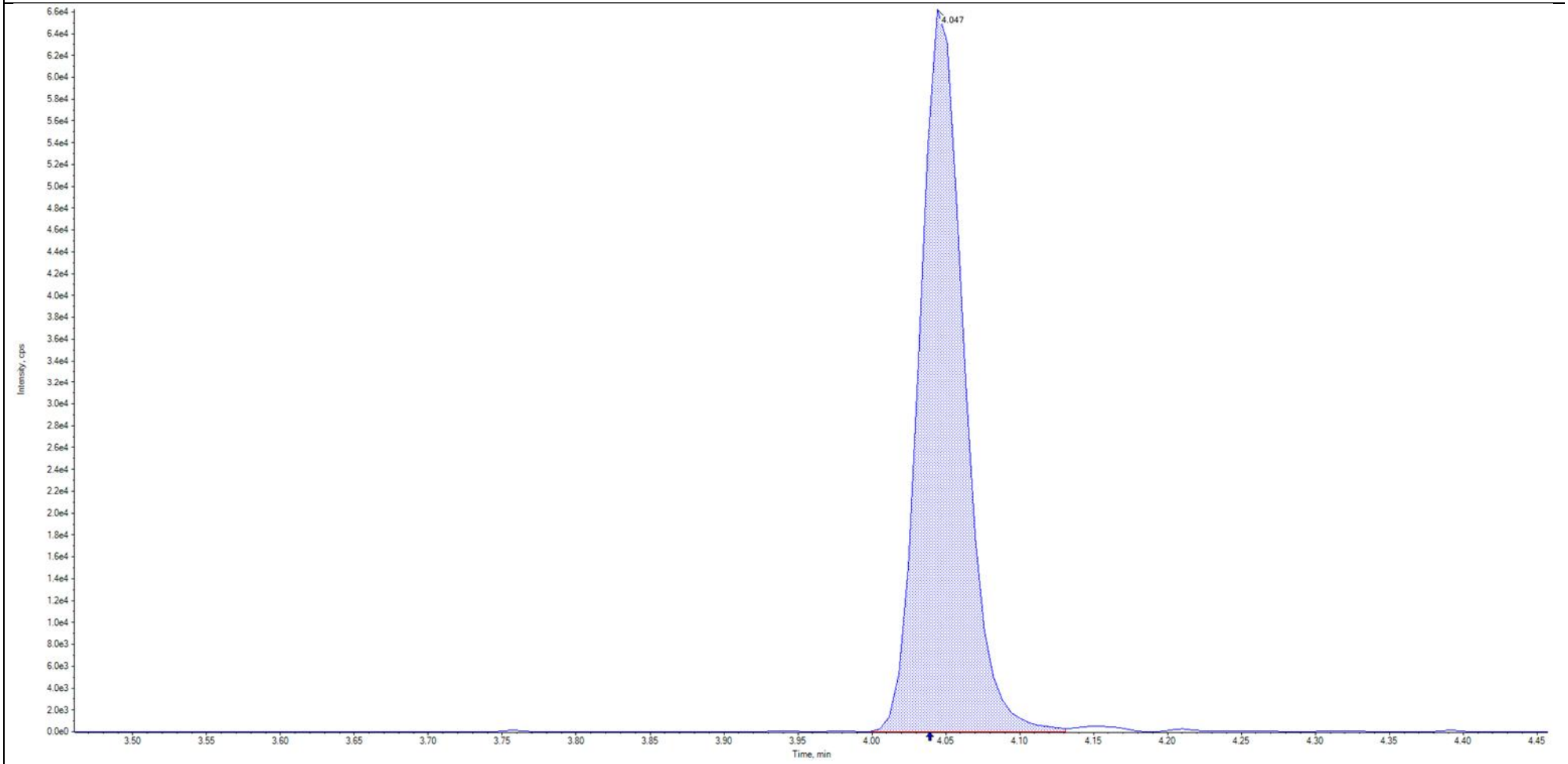

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Generated: 12/20/2024 10:43:43 AM

d5-NEtFOSAA
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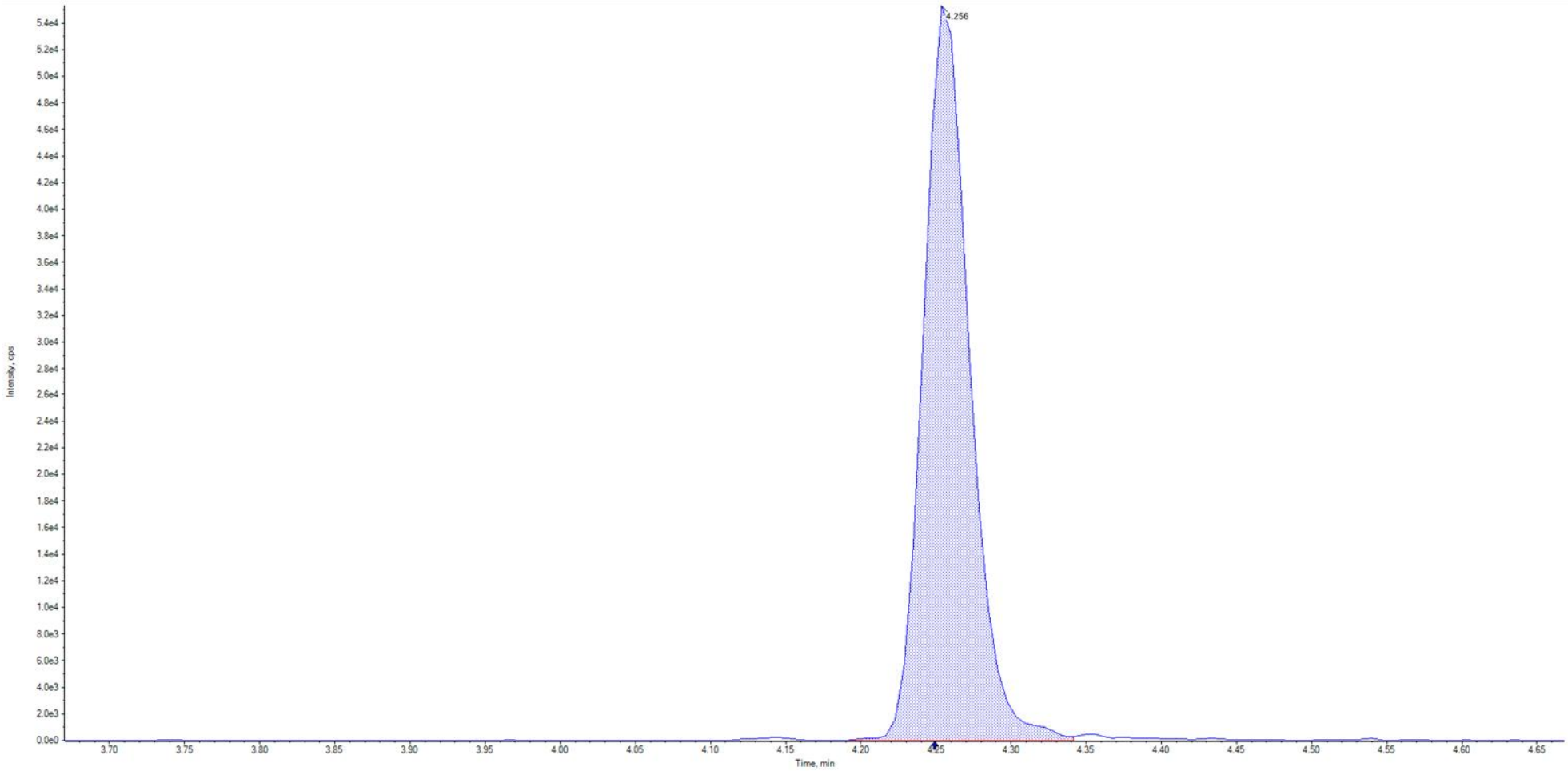

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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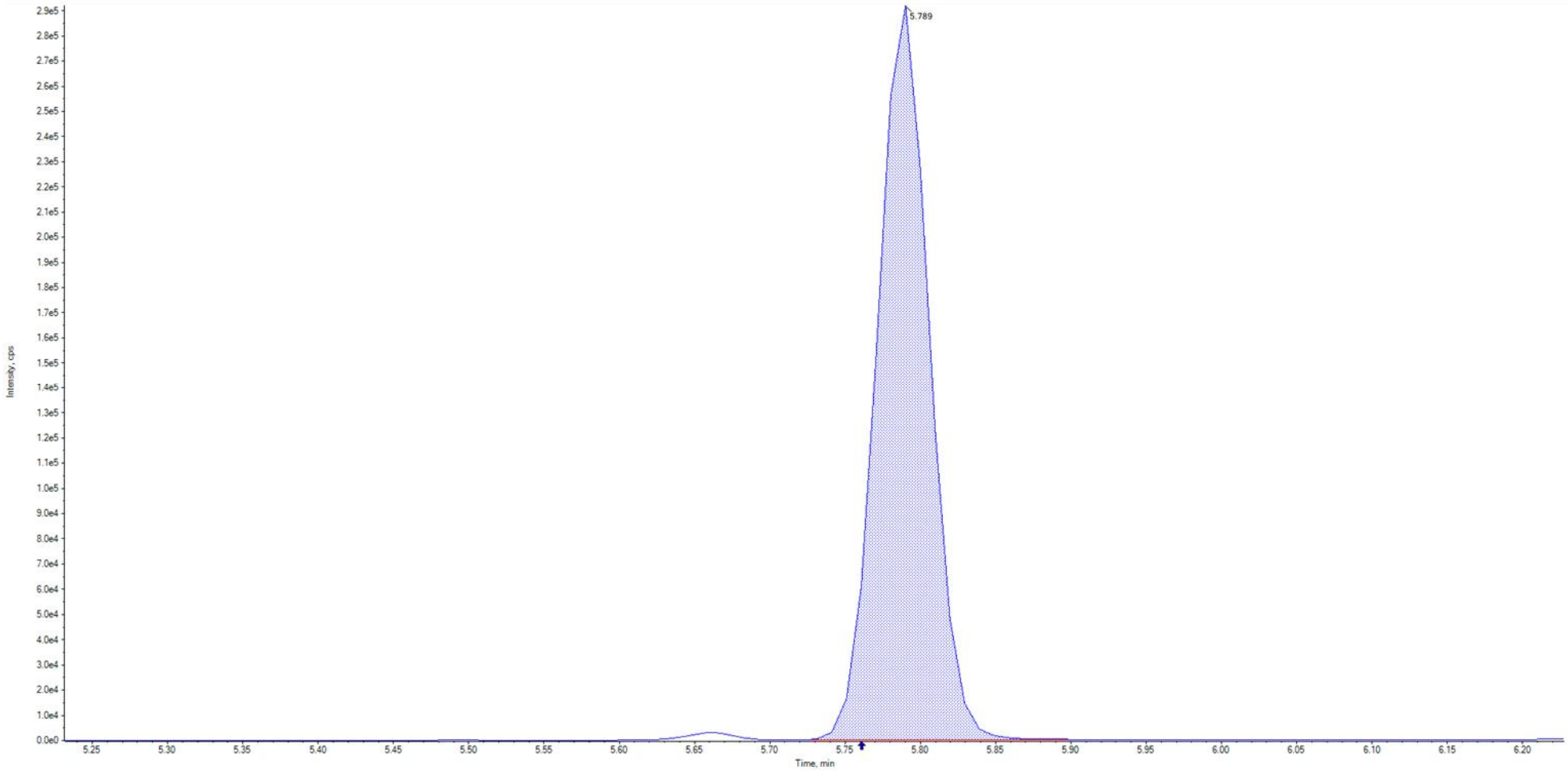
Generated: 12/20/2024 10:43:43 AM

d7-NMeFOSE
Sample: L2470744-13



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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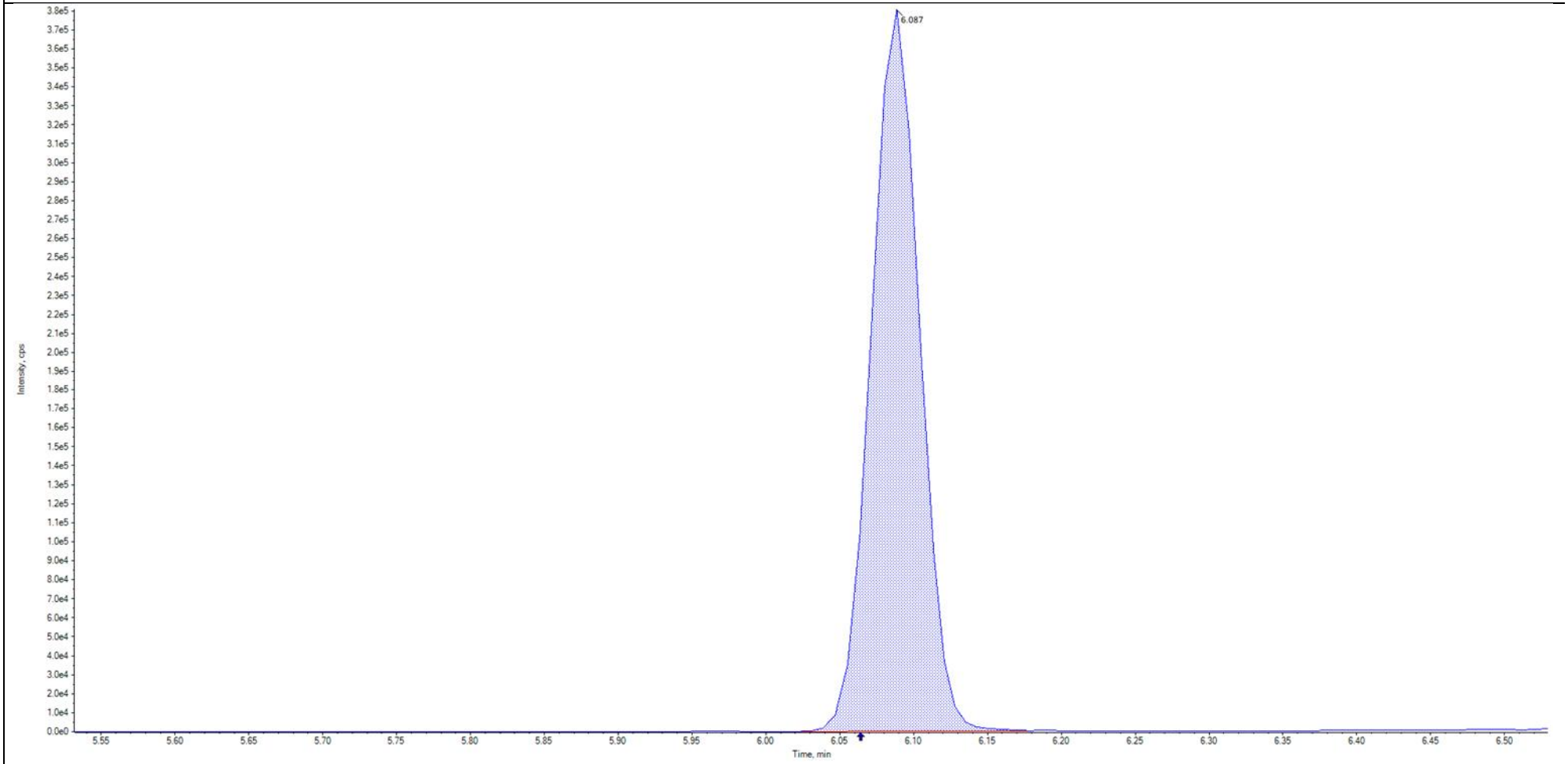
d9-NEtFOSE
Sample: L2470744-13



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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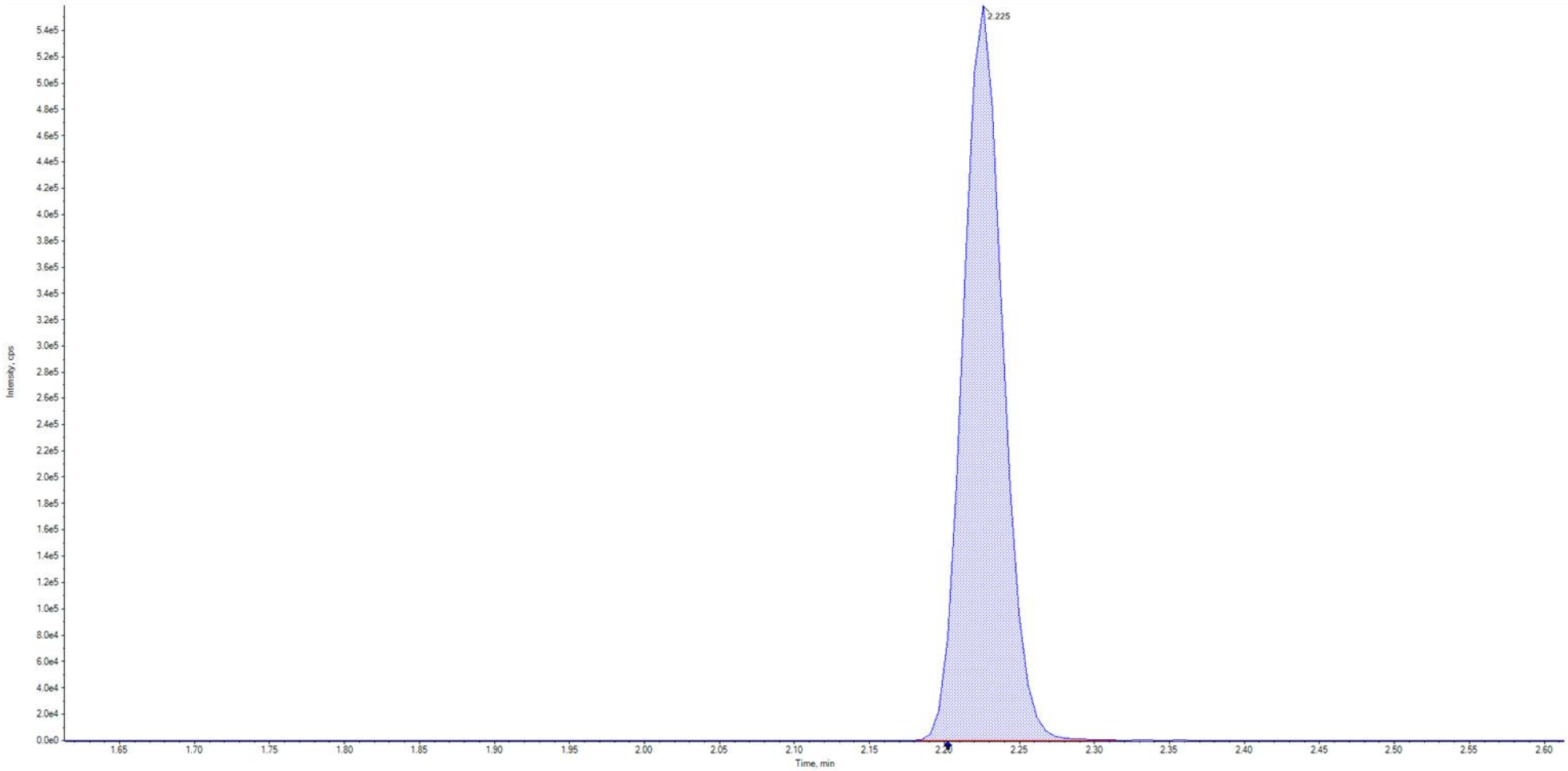
13C3-HFPO-DA
Sample: L2470744-13



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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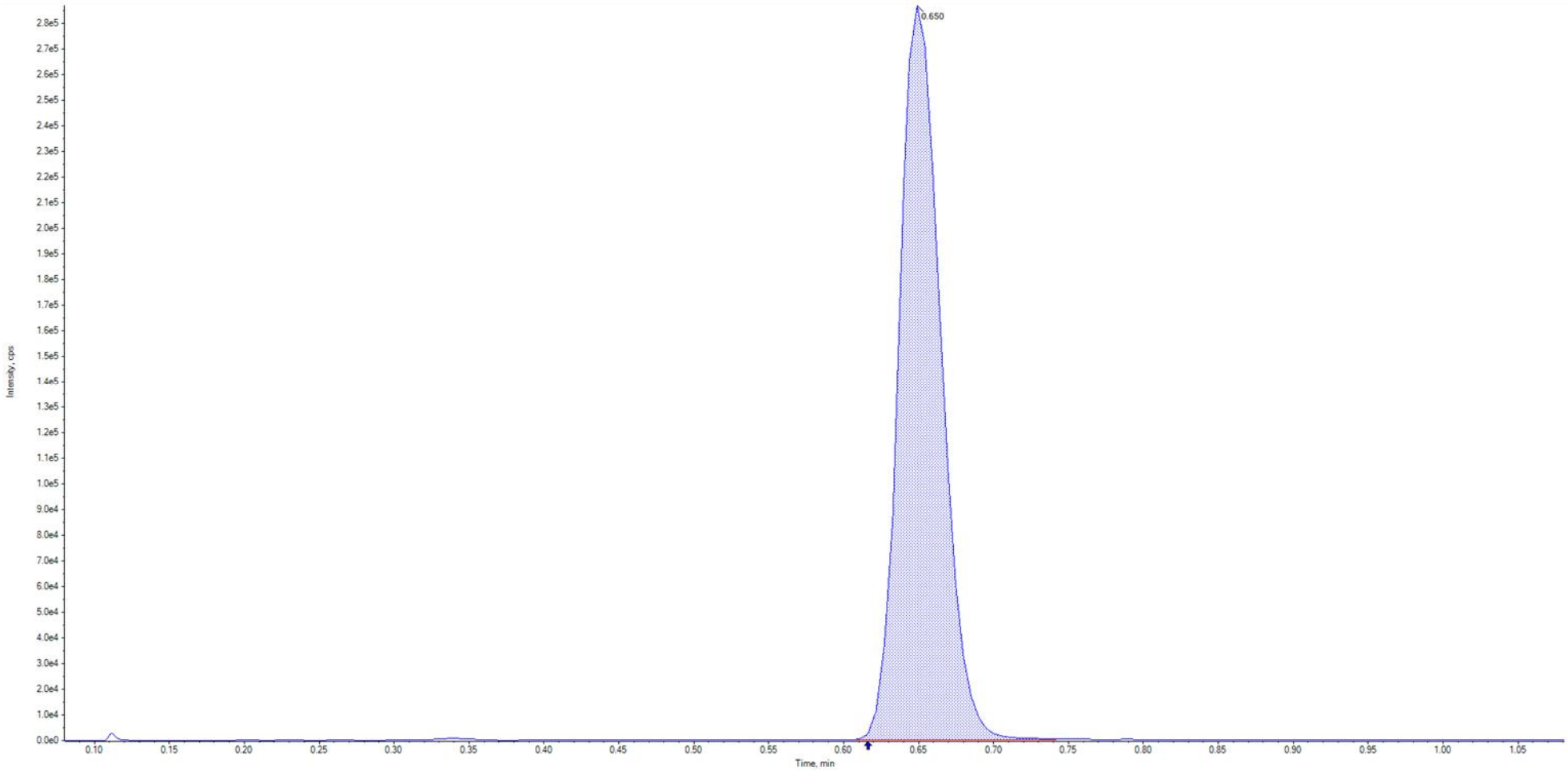
Generated: 12/20/2024 10:43:43 AM

13C3-PFBA
Sample: L2470744-13



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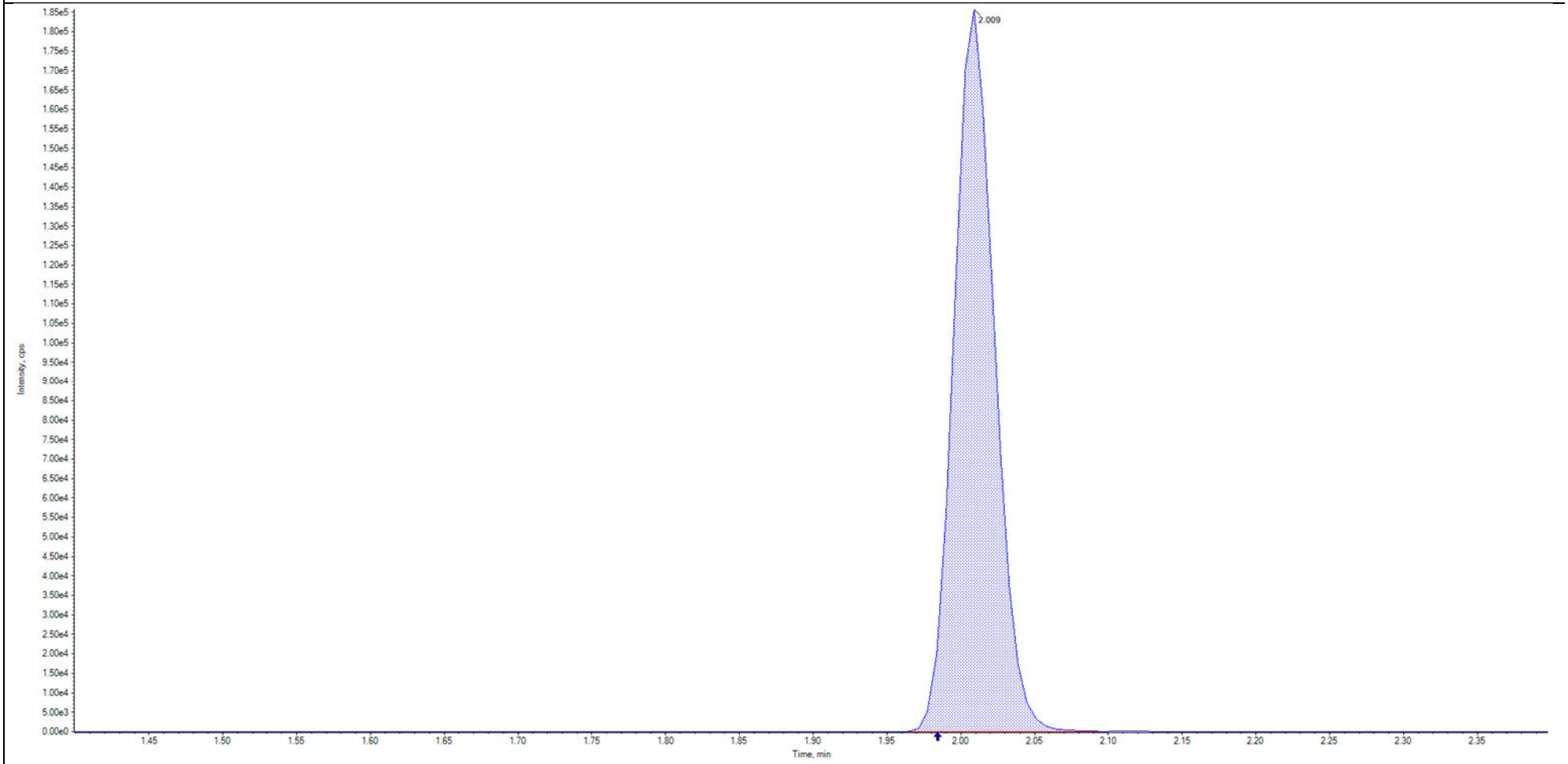
13C2-PFHxA
Sample: L2470744-13



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13C4-PFOA
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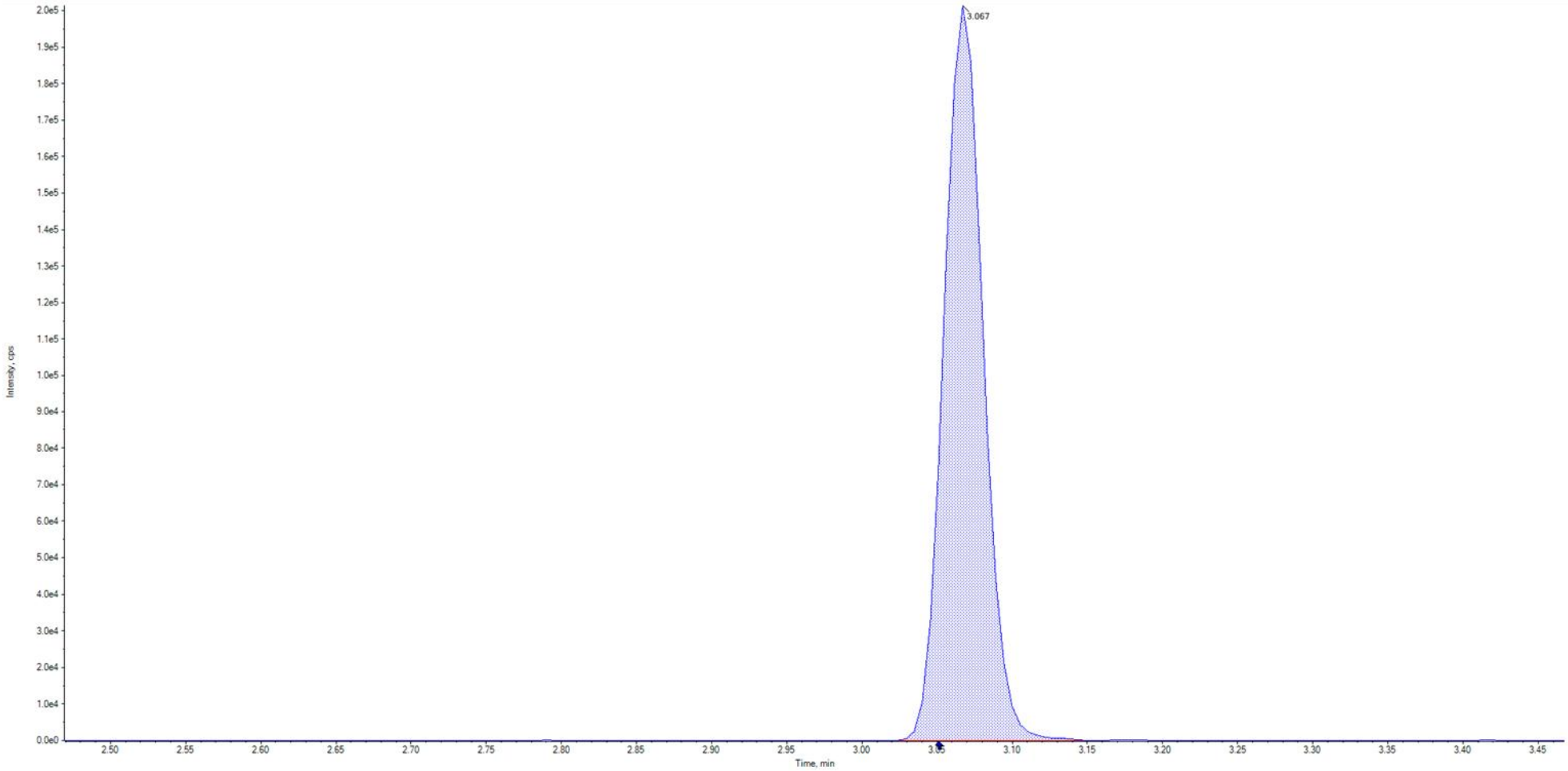

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Alpha Analytical LLC
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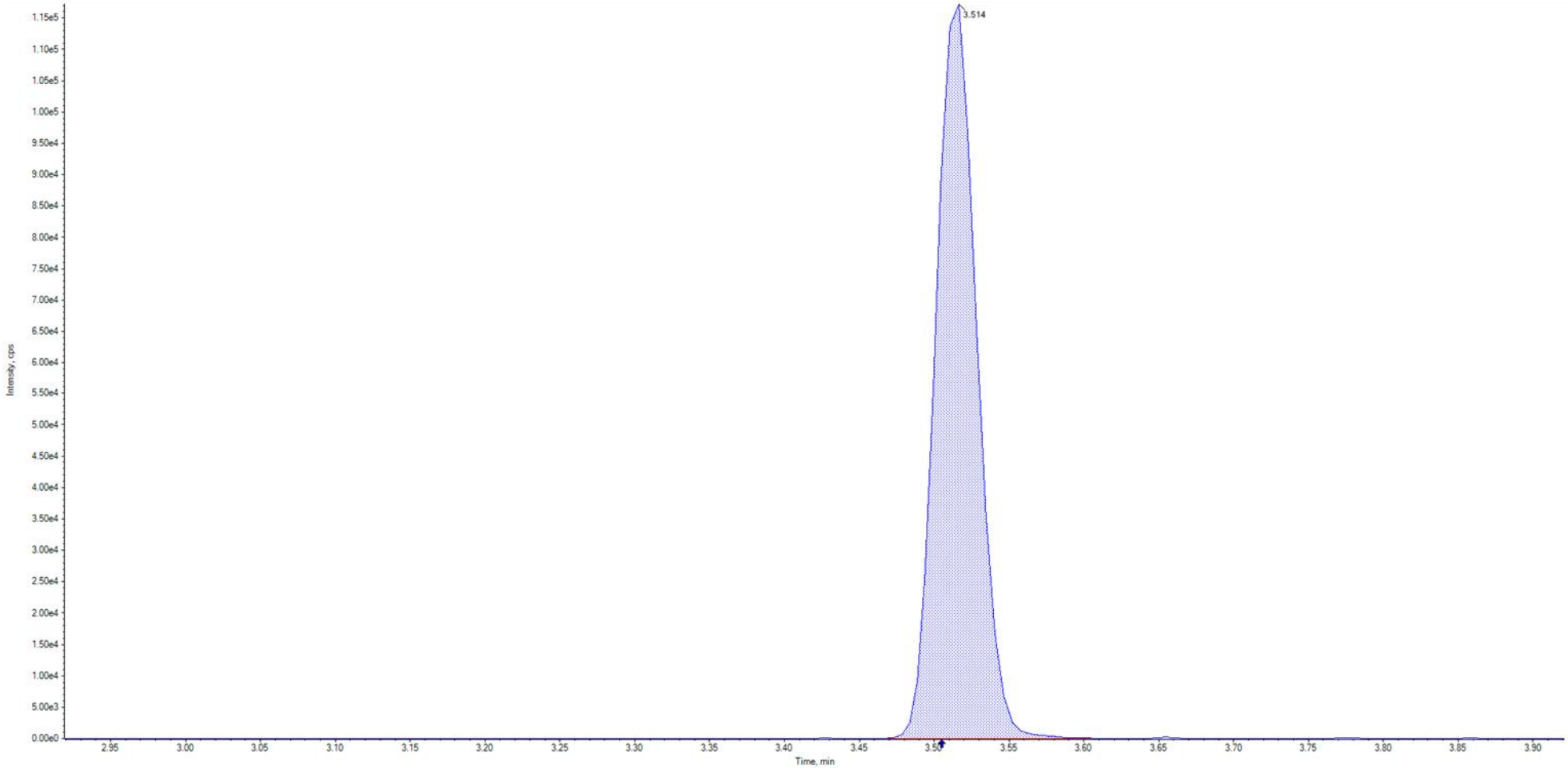
13C5-PFNA
Sample: L2470744-13



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Alpha Analytical LLC
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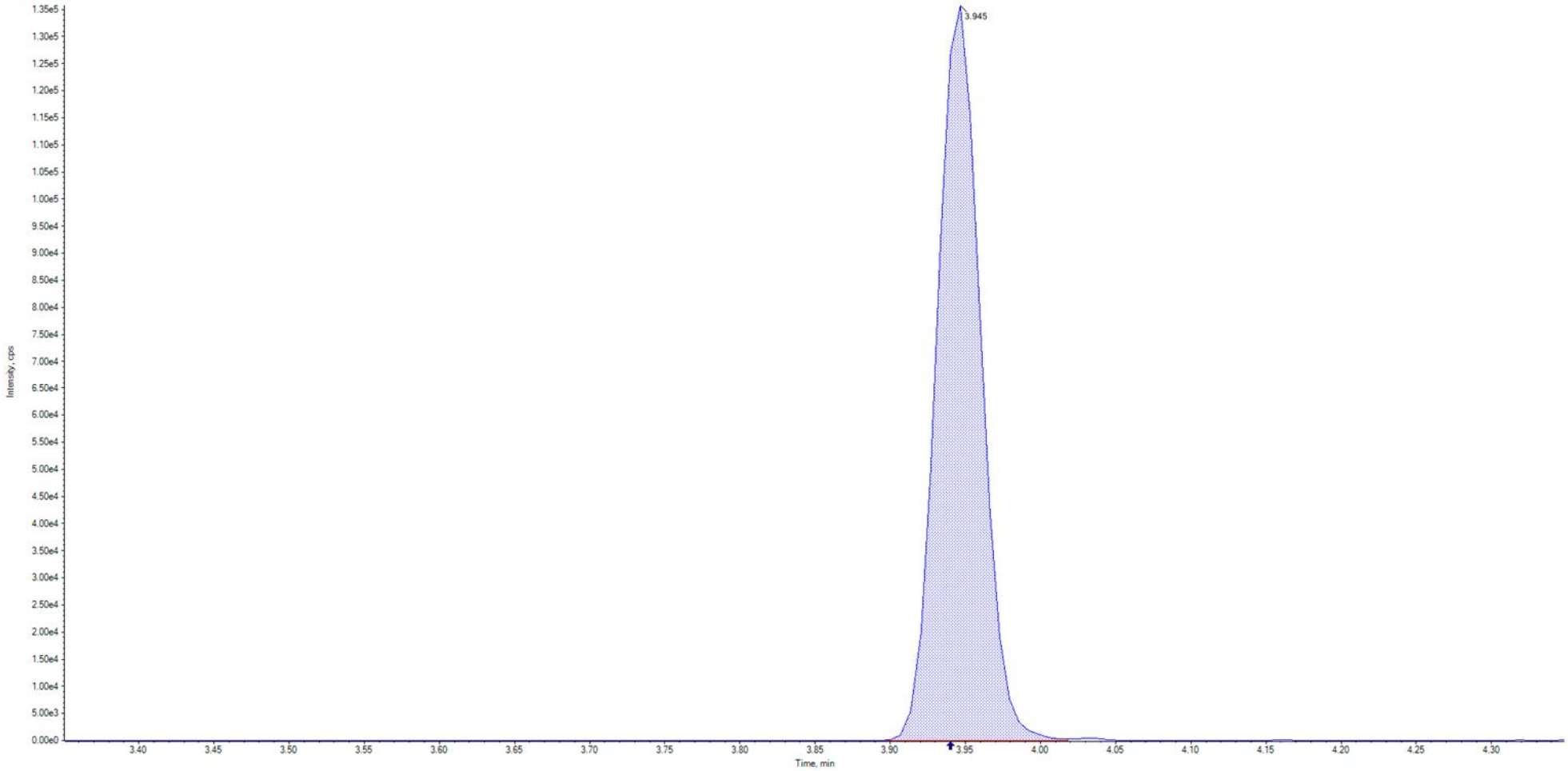
13C2-PFDA
Sample: L2470744-13



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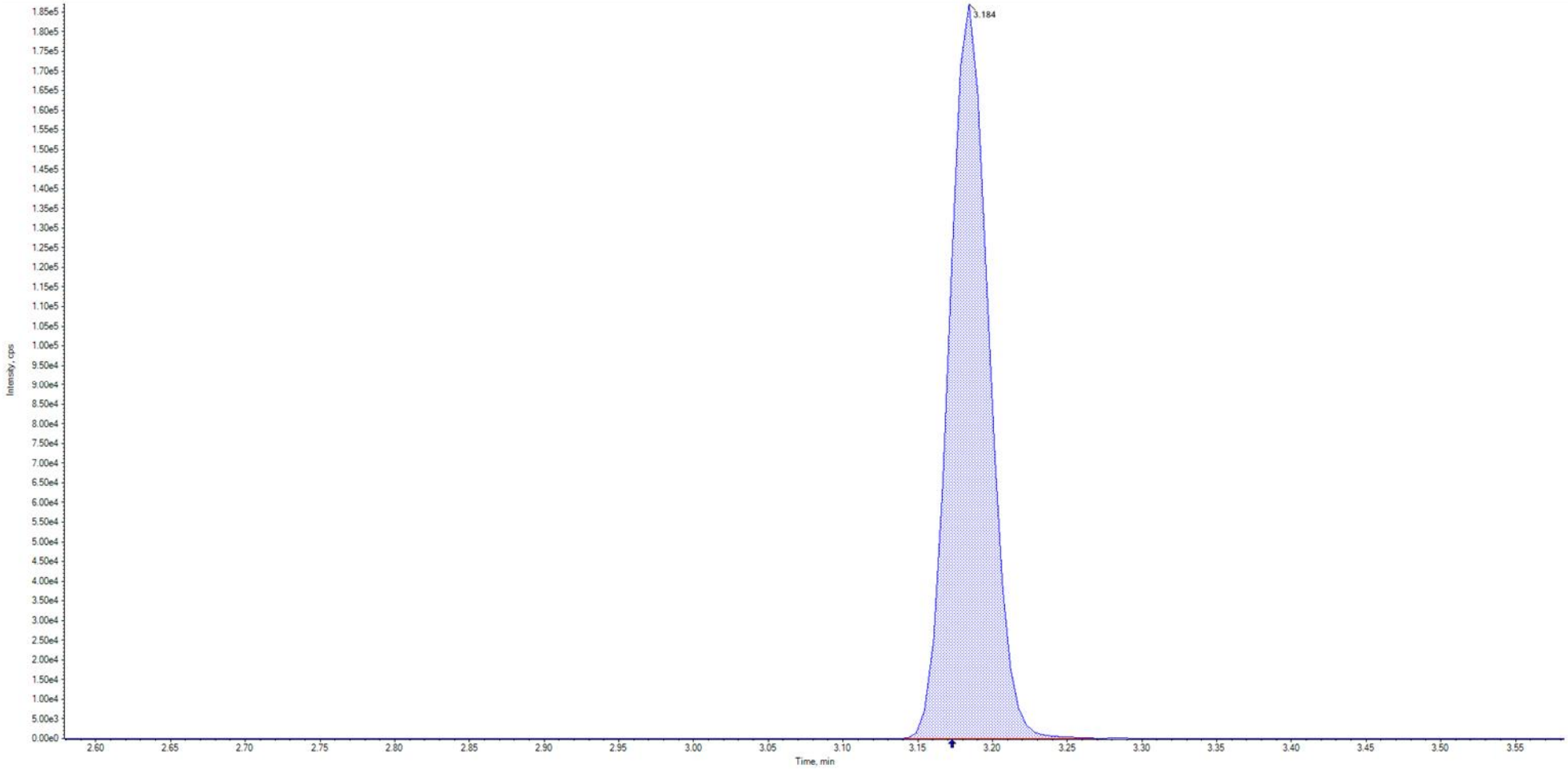
18O2-PFHxS
Sample: L2470744-13



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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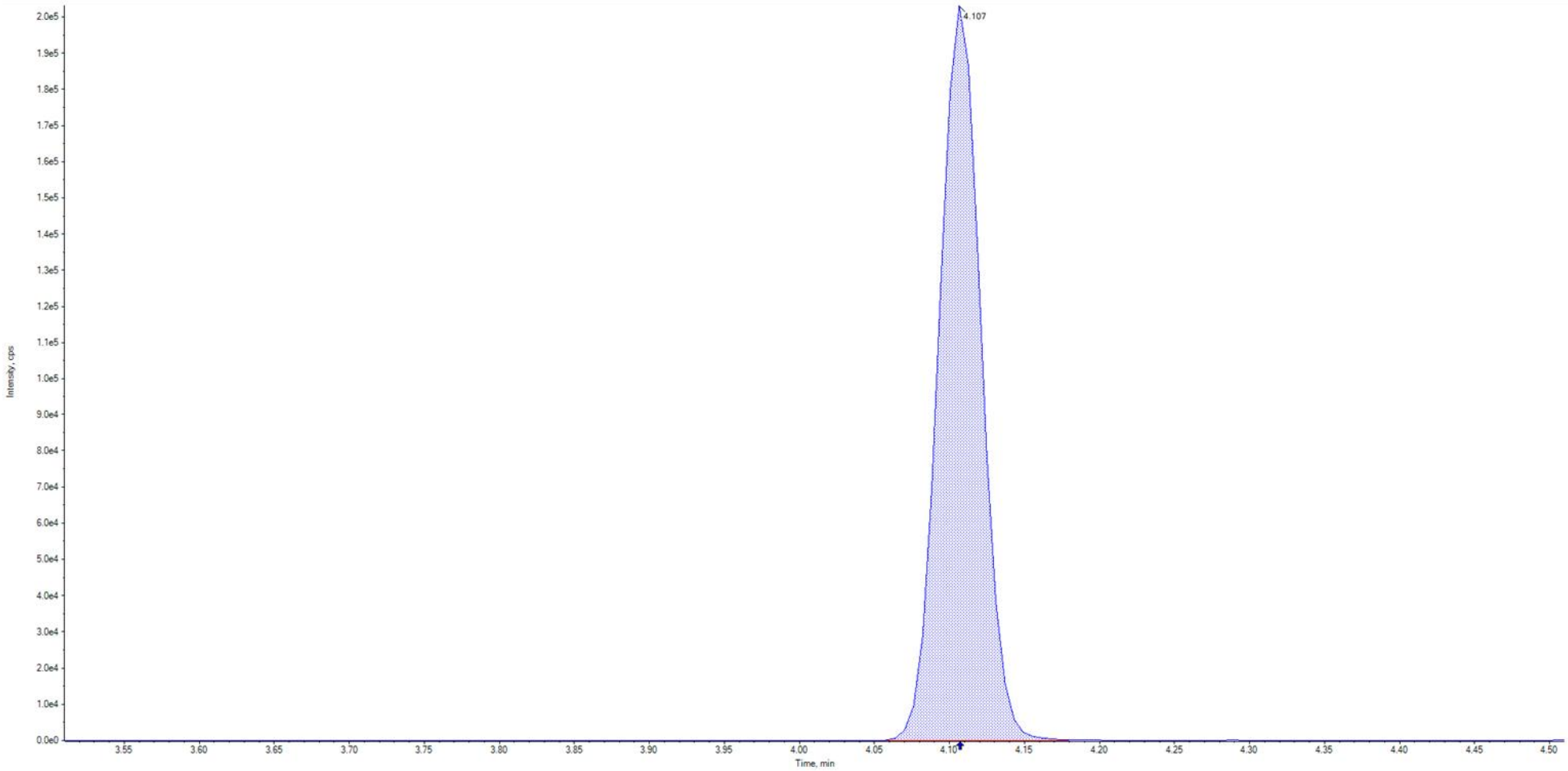
13C4-PFOS
Sample: L2470744-13



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Generated: 12/20/2024 10:43:43 AM

Method: EPA1633F_241217.qmethod
Calibration: 241216_EPA1633_ICAL

ID: L2470744-17
Name: SCI08_241220_41.wiff2
Date & Time: 2024-12-20T11:05:32
Description: WG2011615,WG2010366,ICAL21783
Instrument: SCIEX Triple Quad 5500+
User: LCMS08:AC

LC/MS-MS Method:EPA-1633F

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
1	PFBA	375-22-4	0.62	213.0 / 169.0	30364		0.375	N/A	N/A	N/A	N/A
2	PFPeA	2706-90-3	1.22	263.0 / 219.0	17125		0.212	0.008	0.008	Pass	N/A
3	PFPeA_2	2706-90-3	1.23	263.0 / 68.9	132	M2	0.200	0.008	0.008	Pass	N/A
4	PFHxA	307-24-4	1.99	313.0 / 269.0	18814		0.168	0.083	0.084	Pass	N/A
5	PFHxA_2	307-24-4	1.98	313.0 / 119.0	1560	M2	0.175	0.083	0.084	Pass	N/A
6	PFHpA	375-85-9	2.56	363.1 / 319.0	12143		0.110	0.379	0.404	Pass	N/A
7	PFHpA_2	375-85-9	2.56	363.1 / 169.0	4607		0.098	0.379	0.404	Pass	N/A

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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
8	PFOA	335-67-1	3.05	413.1 / 369.1	26750	M5	0.251	0.464	0.562	Pass	N/A
9	PFOA_2	335-67-1	3.05	413.1 / 169.0	12416	M5	0.223	0.464	0.562	Pass	N/A
10	PFNA	375-95-1	N/A	462.8 / 418.9	N/A		N/A	N/A	0.464	N/A	N/A
11	PFNA_2	375-95-1	N/A	462.8 / 219.0	N/A		N/A	N/A	0.464	N/A	N/A
12	PFDA	335-76-2	3.93	513.1 / 469.1	4134		0.036	0.172	0.264	Pass	N/A
13	PFDA_2	335-76-2	3.93	513.1 / 219.0	712	M2	0.024	0.172	0.264	Pass	N/A
14	PFUnA	2058-94-8	N/A	563.1 / 519.1	N/A		N/A	N/A	0.204	N/A	N/A
15	PFUnA_2	2058-94-8	N/A	563.1 / 269.0	N/A		N/A	N/A	0.204	N/A	N/A
16	PFDoA	307-55-1	N/A	613.1 / 569.1	N/A		N/A	N/A	0.194	N/A	N/A
17	PFDoA_2	307-55-1	N/A	613.1 / 319.0	N/A		N/A	N/A	0.194	N/A	N/A
18	PFTrDA	72629-94-8	N/A	663.1 / 619.1	N/A		N/A	N/A	0.193	N/A	N/A
19	PFTrDA_2	72629-94-8	N/A	663.1 / 169.0	N/A		N/A	N/A	0.193	N/A	N/A
20	PFTeDA	376-06-7	N/A	713.1 / 669.1	N/A		N/A	N/A	0.163	N/A	N/A
21	PFTeDA_2	376-06-7	N/A	713.1 / 169.0	N/A		N/A	N/A	0.163	N/A	N/A
22	PFBS	375-73-5	1.99	299.1 / 80.1	54706		0.324	0.338	0.353	Pass	N/A

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Generated: 12/20/2024 10:43:43 AM

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
23	PFBS_2	375-73-5	1.99	299.1 / 99.1	18508		0.318	0.338	0.353	Pass	N/A
24	PFPeS	2706-91-4	2.64	349.1 / 80.1	4070		0.027	0.258	0.294	Pass	N/A
25	PFPeS_2	2706-91-4	2.64	349.1 / 99.1	1050	M2	0.025	0.258	0.294	Pass	N/A
26	PFHxS	355-46-4	3.16	399.1 / 80.1	14366	M5	0.102	0.319	0.292	Pass	N/A
27	PFHxS_2	355-46-4	3.16	399.1 / 99.1	4584	M5	0.111	0.319	0.292	Pass	N/A
28	PFHpS	375-92-8	N/A	449.1 / 80.1	N/A		N/A	N/A	0.274	N/A	N/A
29	PFHpS_2	375-92-8	N/A	449.1 / 99.1	N/A		N/A	N/A	0.274	N/A	N/A
30	PFOS	1763-23-1	4.09	499.1 / 80.1	26268	M5	0.156	0.140	0.223	Pass	N/A
31	PFOS_2	1763-23-1	4.09	499.1 / 99.1	3687	M5	0.104	0.140	0.223	Pass	N/A
32	PFNS	68259-12-1	N/A	549.1 / 80.1	N/A		N/A	N/A	0.281	N/A	N/A
33	PFNS_2	68259-12-1	N/A	549.1 / 99.1	N/A		N/A	N/A	0.281	N/A	N/A
34	PFDS	335-77-3	N/A	599.1 / 80.1	N/A		N/A	N/A	0.267	N/A	N/A
35	PFDS_2	335-77-3	N/A	599.1 / 99.1	N/A		N/A	N/A	0.267	N/A	N/A
36	PFDoS	79780-39-5	N/A	699.2 / 80.1	N/A		N/A	N/A	0.225	N/A	N/A
37	PFDoS_2	79780-39-5	N/A	699.2 / 99.1	N/A		N/A	N/A	0.225	N/A	N/A

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Generated: 12/20/2024 10:43:43 AM

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
38	4:2FTS	757124-72-4	N/A	327.1 / 307.1	N/A		N/A	N/A	0.637	N/A	N/A
39	4:2FTS_2	757124-72-4	N/A	327.1 / 81.1	N/A		N/A	N/A	0.637	N/A	N/A
40	6:2FTS	27619-97-2	N/A	427.2 / 407.2	N/A		N/A	N/A	0.571	N/A	N/A
41	6:2FTS_2	27619-97-2	N/A	427.2 / 81.1	N/A		N/A	N/A	0.571	N/A	N/A
42	8:2FTS	39108-34-4	N/A	527.2 / 507.2	N/A		N/A	N/A	0.758	N/A	N/A
43	8:2FTS_2	39108-34-4	N/A	527.2 / 81.1	N/A		N/A	N/A	0.758	N/A	N/A
44	PFOSA	754-91-6	N/A	498.1 / 78.1	N/A		N/A	N/A	0.023	N/A	N/A
45	PFOSA_2	754-91-6	N/A	498.1 / 478.0	N/A		N/A	N/A	0.023	N/A	N/A
46	NMeFOSA	31506-32-8	N/A	512.2 / 219.0	N/A		N/A	N/A	1.447	N/A	N/A
47	NMeFOSA_2	31506-32-8	N/A	512.2 / 169.0	N/A		N/A	N/A	1.447	N/A	N/A
48	NEtFOSA	4151-50-2	N/A	526.2 / 219.0	N/A		N/A	N/A	1.299	N/A	N/A
49	NEtFOSA_2	4151-50-2	N/A	526.2 / 169.0	N/A		N/A	N/A	1.299	N/A	N/A
50	NMeFOSAA	2355-31-9	N/A	570.2 / 419.1	N/A		N/A	N/A	0.605	N/A	N/A
51	NMeFOSAA_2	2355-31-9	N/A	570.2 / 483.0	N/A		N/A	N/A	0.605	N/A	N/A
52	NEtFOSAA	2991-50-6	N/A	584.2 / 419.1	N/A		N/A	N/A	0.518	N/A	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
53	NEtFOSAA_2	2991-50-6	N/A	584.2 / 526.2	N/A		N/A	N/A	0.518	N/A	N/A
54	NMeFOSE	24448-09-7	N/A	616.1 / 58.9	N/A		N/A	N/A	N/A	N/A	N/A
55	NEtFOSE	1691-99-2	N/A	630.0 / 58.9	N/A		N/A	N/A	N/A	N/A	N/A
56	HFPO-DA	13252-13-6	N/A	285.0 / 169.0	N/A		N/A	N/A	0.474	N/A	N/A
57	HFPO-DA_2	13252-13-6	N/A	285.0 / 184.9	N/A		N/A	N/A	0.474	N/A	N/A
58	ADONA	919005-14-4	N/A	376.9 / 251.0	N/A		N/A	N/A	0.740	N/A	N/A
59	ADONA_2	919005-14-4	N/A	376.9 / 84.8	N/A		N/A	N/A	0.740	N/A	N/A
60	9Cl-PF3ONS	756426-58-1	N/A	530.8 / 351.1	N/A		N/A	N/A	0.340	N/A	N/A
61	9Cl-PF3ONS_2	756426-58-1	N/A	532.8 / 353.0	N/A		N/A	N/A	0.340	N/A	N/A
62	11Cl-PF3OUdS	763051-92-9	N/A	630.9 / 451.0	N/A		N/A	N/A	0.328	N/A	N/A
63	11Cl-PF3OUdS_2	763051-92-9	N/A	632.9 / 452.9	N/A		N/A	N/A	0.328	N/A	N/A
64	3:3FTCA	356-02-5	N/A	241.1 / 177.1	N/A		N/A	N/A	0.996	N/A	N/A
65	3:3FTCA_2	356-02-5	N/A	241.1 / 117.0	N/A		N/A	N/A	0.996	N/A	N/A
66	5:3FTCA	914637-49-3	N/A	341.1 / 237.1	N/A		N/A	N/A	1.037	N/A	N/A
67	5:3FTCA_2	914637-49-3	N/A	341.1 / 217.0	N/A		N/A	N/A	1.037	N/A	N/A

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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
68	7:3FTCA	812-70-4	N/A	441.1 / 316.9	N/A		N/A	N/A	1.181	N/A	N/A
69	7:3FTCA_2	812-70-4	N/A	441.1 / 337.1	N/A		N/A	N/A	1.181	N/A	N/A
70	PFEESA	113507-82-7	N/A	315.1 / 135.0	N/A		N/A	N/A	0.078	N/A	N/A
71	PFEESA_2	113507-82-7	N/A	315.1 / 82.9	N/A		N/A	N/A	0.078	N/A	N/A
72	PFMPA	377-73-1	N/A	229.0 / 85.0	N/A		N/A	N/A	N/A	N/A	N/A
73	PFMBA	863090-89-5	N/A	279.0 / 85.0	N/A		N/A	N/A	N/A	N/A	N/A
74	NFDHA	151772-58-6	N/A	295.0 / 201.0	N/A		N/A	N/A	0.765	N/A	N/A
75	NFDHA_2	151772-58-6	N/A	295.0 / 84.9	N/A		N/A	N/A	0.765	N/A	N/A
76	TDCA	516-50-7	N/A	499.1 / 124.1	N/A		N/A	N/A	5.845	N/A	N/A
77	TDCA_2	516-50-7	N/A	499.1 / 79.9	N/A		N/A	N/A	5.845	N/A	N/A
78	13C2D4-4:2FTS	Surr	N/A	333.2 / 312.1	N/A		N/A	N/A	N/A	N/A	N/A
79	13C2-PFOA	Surr	N/A	415.0 / 370.0	N/A		N/A	N/A	N/A	N/A	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C4-PFBA	EIS	0.62	217.0 / 172.0	979825		9.084	NA	NA	NA	90.8

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Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
13C5-PFPeA	EIS	1.21	268.0 / 223.0	447842		4.798	NA	NA	NA	96.0
13C5-PFHxA	EIS	1.98	318.0 / 273.0	263667		2.281	NA	NA	NA	91.2
13C4-PFHpA	EIS	2.56	367.0 / 322.0	325620		2.232	NA	NA	NA	89.3
13C8-PFOA	EIS	3.04	420.8 / 376.0	382696		2.320	NA	NA	NA	92.8
13C9-PFNA	EIS	3.49	472.0 / 427.0	180567		1.124	NA	NA	NA	90.0
13C6-PFDA	EIS	3.92	519.0 / 474.0	224015		1.085	NA	NA	NA	86.8
13C7-PFUnA	EIS	4.34	570.0 / 525.0	207898		0.948	NA	NA	NA	75.9

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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C2-PFDoA	EIS	4.75	615.1 / 570.0	197281		1.093	NA	NA	NA	87.5
	13C2-PFTeDA	EIS	5.54	715.1 / 670.1	183444		0.866	NA	NA	NA	69.2
	13C3-PFBS	EIS	1.99	302.1 / 80.1	417150		2.504	NA	NA	NA	107.5
	13C3-PFHxS	EIS	3.16	402.1 / 80.1	344568		2.438	NA	NA	NA	102.9
	13C8-PFOS	EIS	4.08	507.1 / 80.1	395789		2.320	NA	NA	NA	96.7
	13C2-4:2FTS	EIS	1.76	329.1 / 81.1	83165		5.292	NA	NA	NA	112.8
	13C2-6:2FTS	EIS	2.85	429.2 / 81.1	68501		4.573	NA	NA	NA	96.1
	13C2-8:2FTS	EIS	3.73	529.2 / 81.1	78302		3.708	NA	NA	NA	77.3

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Generated: 12/20/2024 10:43:43 AM

Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
13C8-PFOSA	EIS	5.18	506.1 / 78.1	548941		2.240	NA	NA	NA	89.6
d3-NMeFOSA	EIS	5.91	515.2 / 219.0	76256		1.986	NA	NA	NA	79.4
d5-NEtFOSA	EIS	6.20	531.2 / 219.0	76583		2.015	NA	NA	NA	80.6
d3-NMeFOSAA	EIS	4.02	573.2 / 419.1	125365		4.084	NA	NA	NA	81.7
d5-NEtFOSAA	EIS	4.23	589.3 / 419.1	111041		4.315	NA	NA	NA	86.3
d7-NMeFOSE	EIS	5.76	623.2 / 58.9	648587	M4	23.532	NA	NA	NA	94.1
d9-NEtFOSE	EIS	6.06	639.2 / 58.9	802620		23.542	NA	NA	NA	94.2

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_41.wiff2_8
Last Altered: 12/20/2024 12:41:04 PM
Generated: 12/20/2024 10:43:43 AM

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C3-HFPO-DA	EIS	2.20	287.0 / 169.0	1009904		9.520	NA	NA	NA	95.2
	13C3-PFBA	NIS	0.62	216.0 / 172.0	473506		4.798	NA	NA	NA	96.0
	13C2-PFHxA	NIS	1.98	315.0 / 270.0	309097		2.260	NA	NA	NA	90.4
	13C4-PFOA	NIS	3.04	417.0 / 372.0	319989		2.192	NA	NA	NA	87.7
	13C5-PFNA	NIS	3.49	468.0 / 423.0	202153		1.089	NA	NA	NA	87.1
	13C2-PFDA	NIS	3.92	515.1 / 470.1	247824		1.088	NA	NA	NA	87.1
	18O2-PFHxS	NIS	3.16	403.1 / 84.1	290974		1.903	NA	NA	NA	80.3
	13C4-PFOS	NIS	4.08	503.1 / 80.1	313498		1.843	NA	NA	NA	76.8

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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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Last Altered: 12/20/2024 12:41:04 PM
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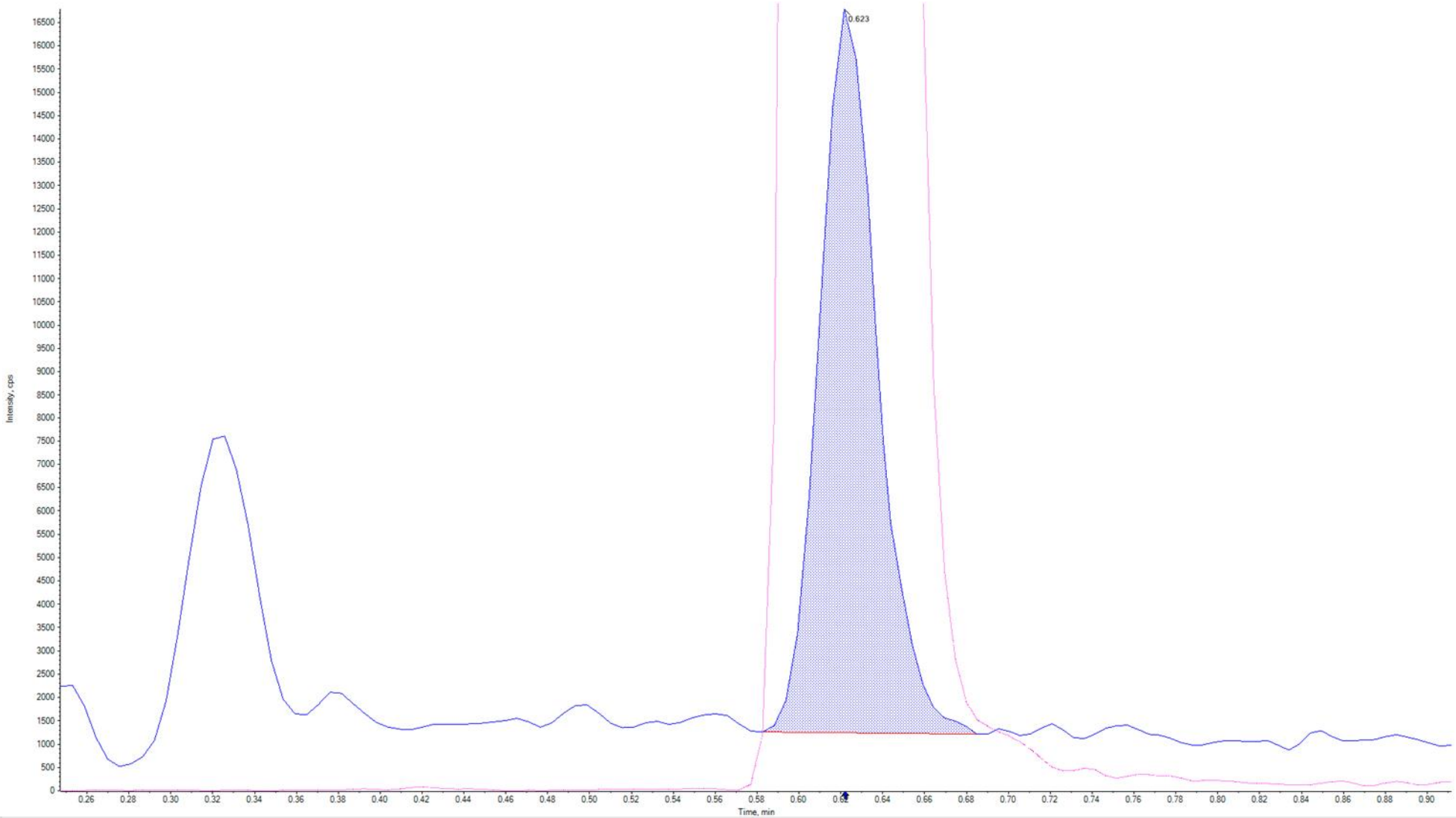
PFBA
Sample: L2470744-17 S/N:117.0 Points Across peak:22



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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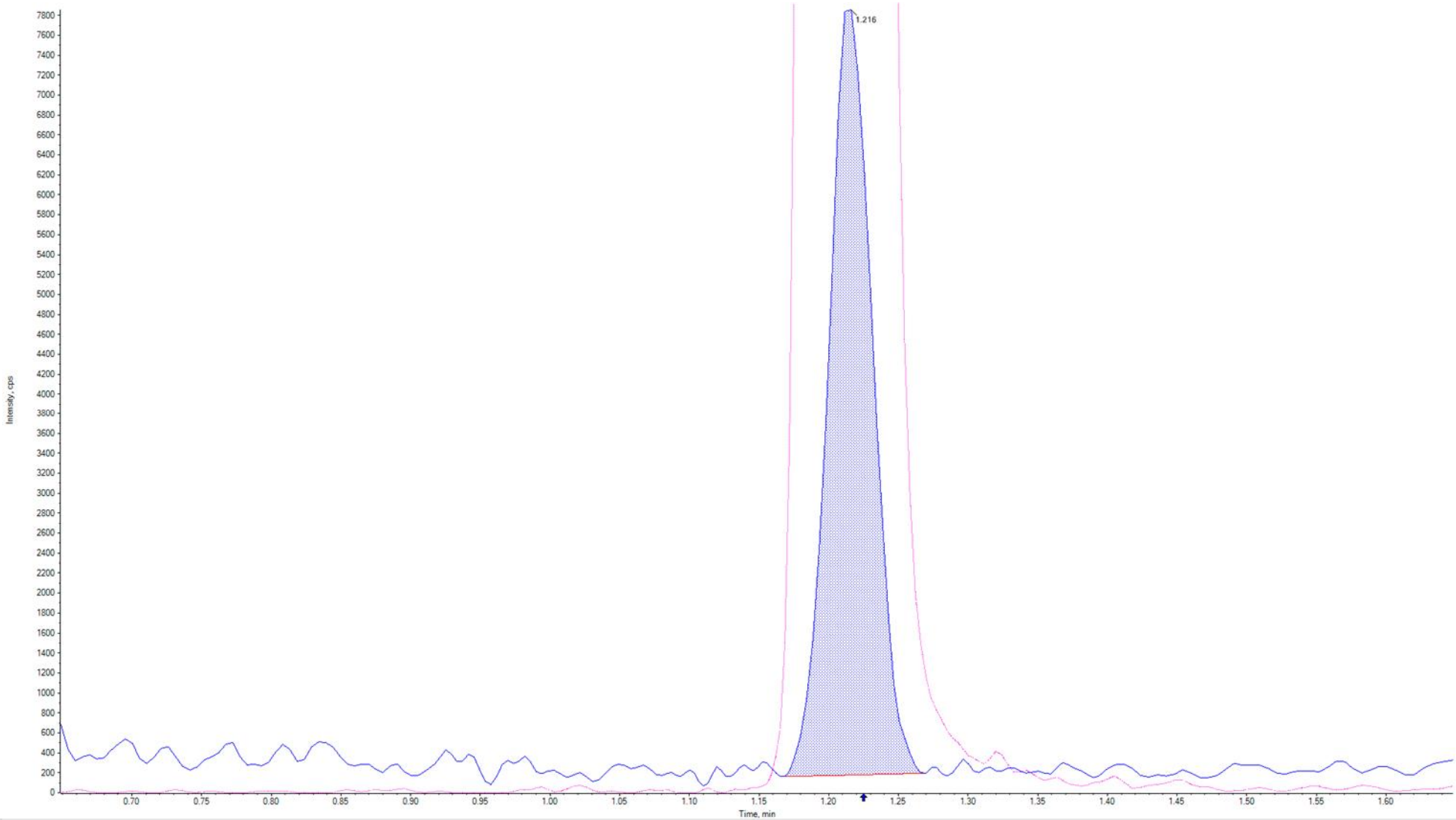
PFPeA
Sample: L2470744-17 S/N:285.2 Points Across peak:25



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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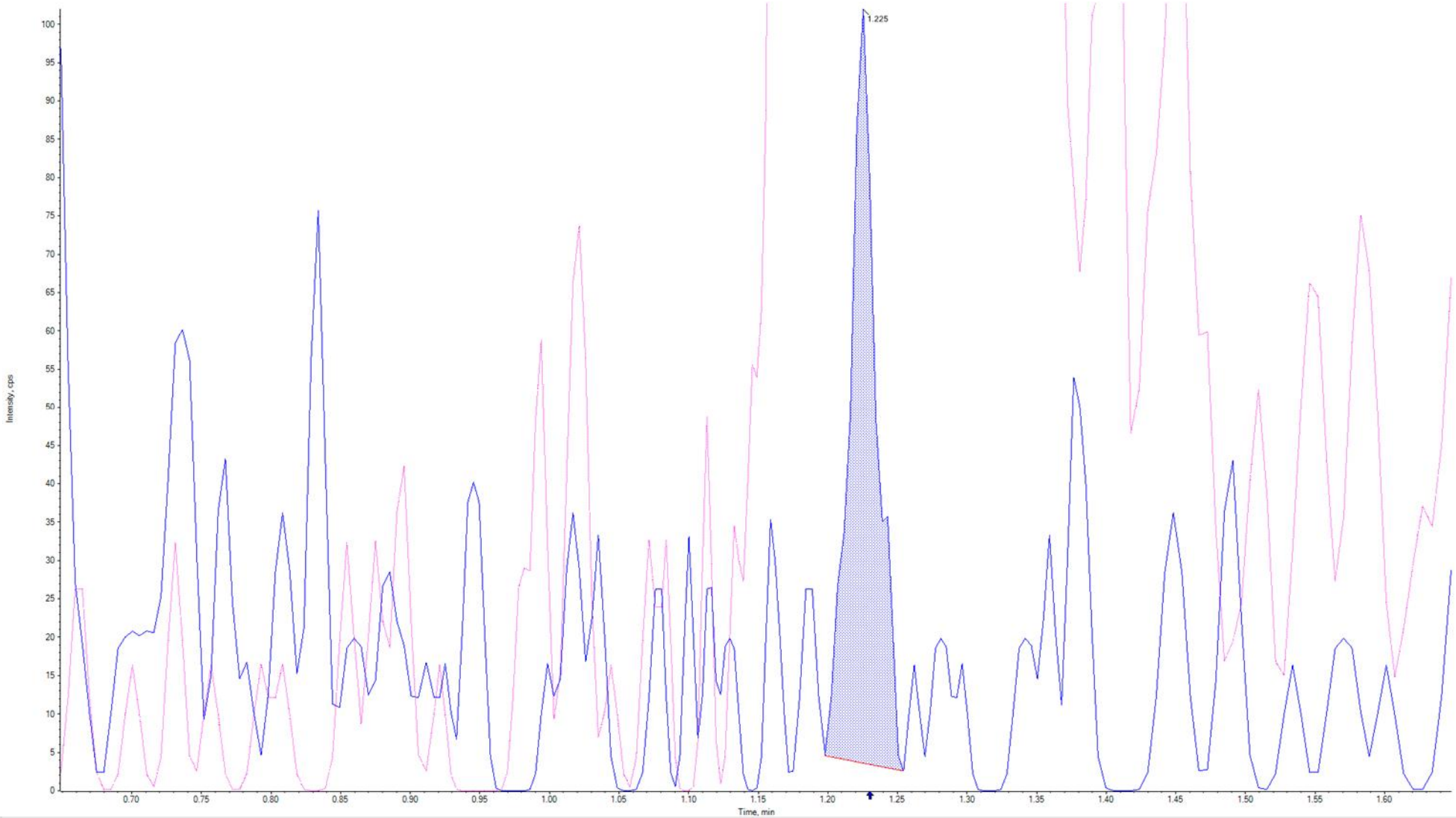
PFPeA_2
Sample: L2470744-17 S/N:5.9 Points Across peak:14



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Alpha Analytical LLC
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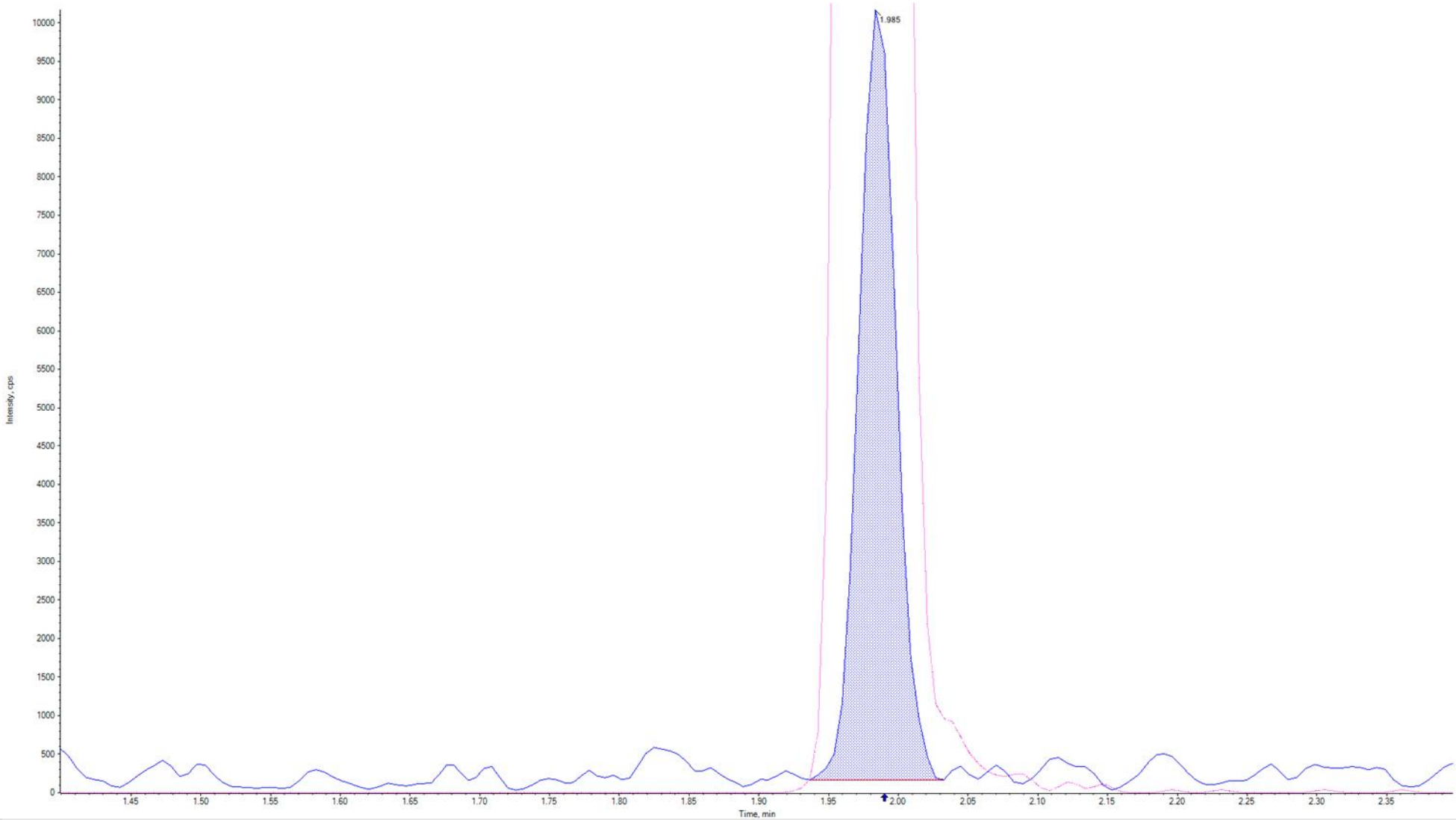
PFHxA
Sample: L2470744-17 S/N:250.7 Points Across peak:17



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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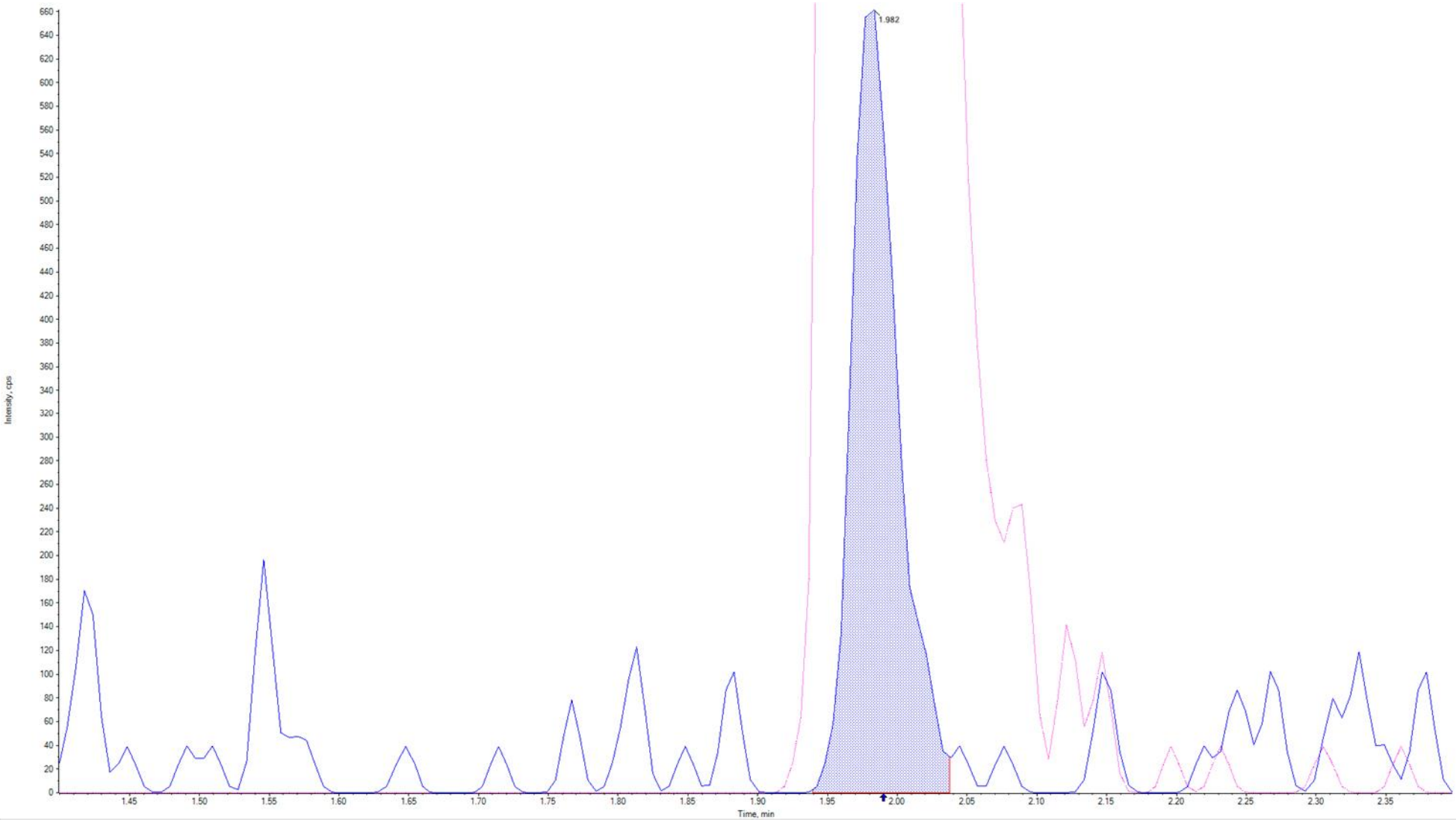
PFHxA_2
Sample: L2470744-17 S/N:16.6 Points Across peak:18



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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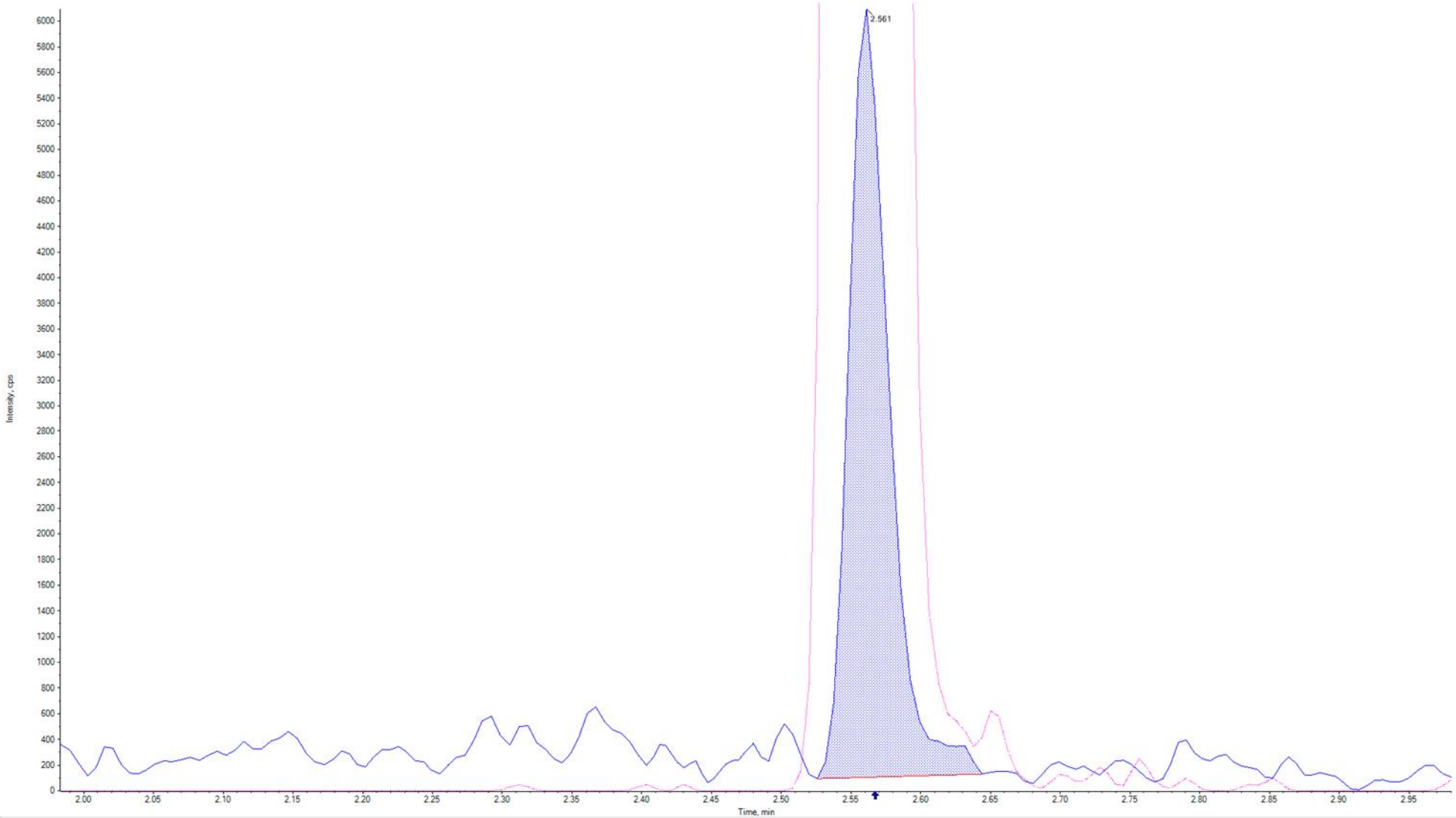
PFHpA
Sample: L2470744-17 S/N:120.1 Points Across peak:20



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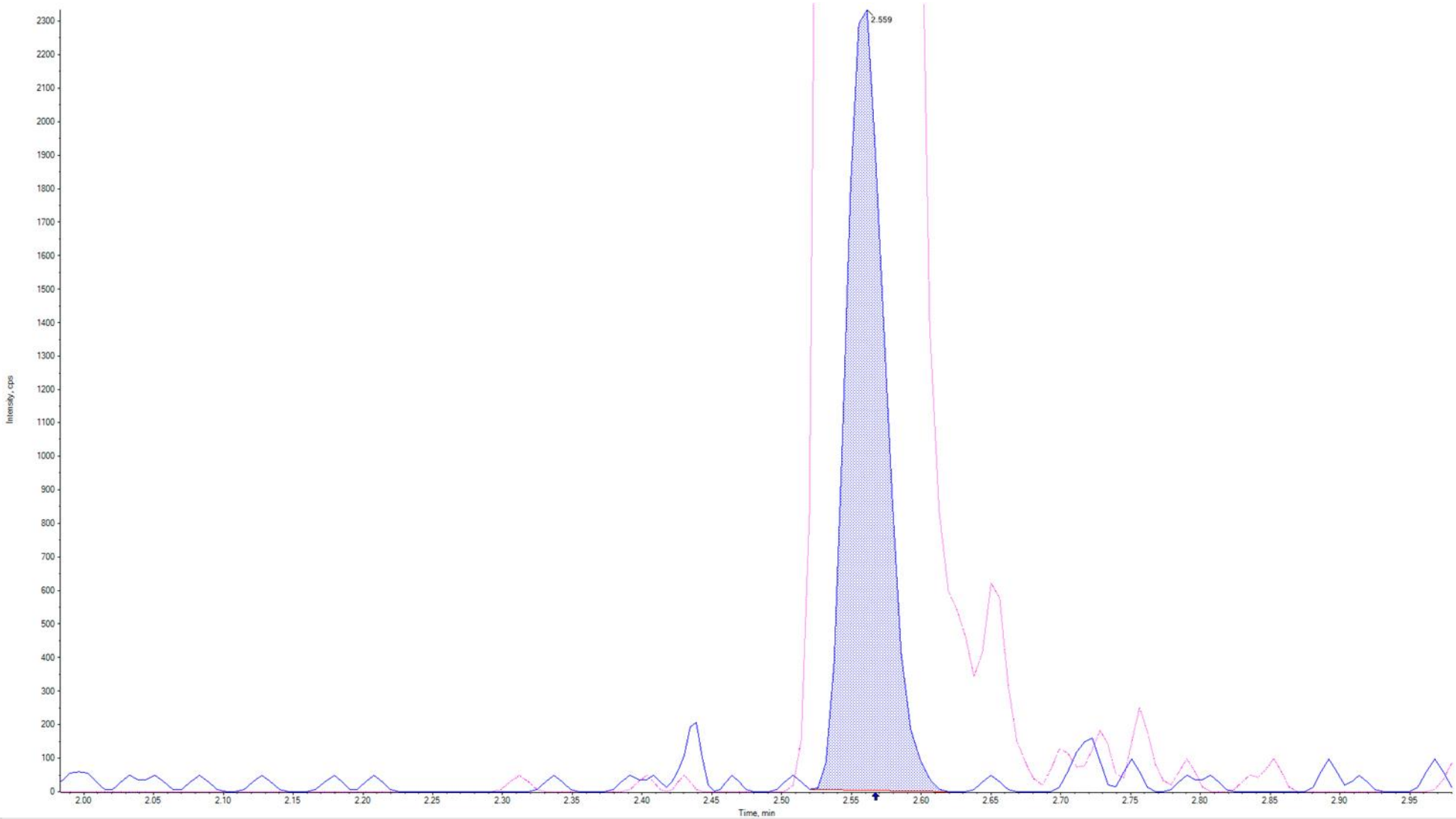
PFHpA_2
Sample: L2470744-17 S/N:46.7 Points Across peak:18



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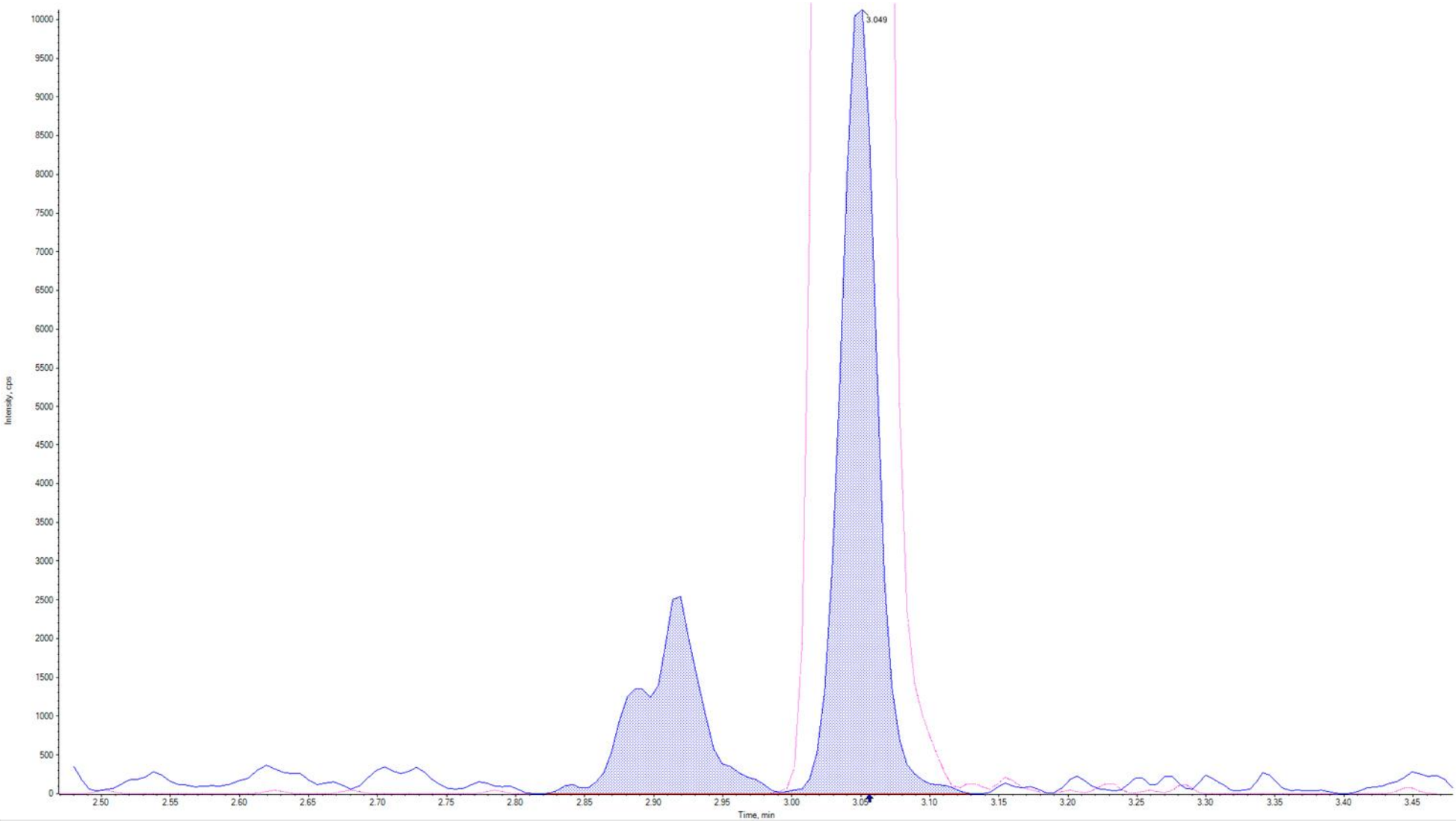
PFOA
Sample: L2470744-17 S/N:157.1 Points Across peak:57



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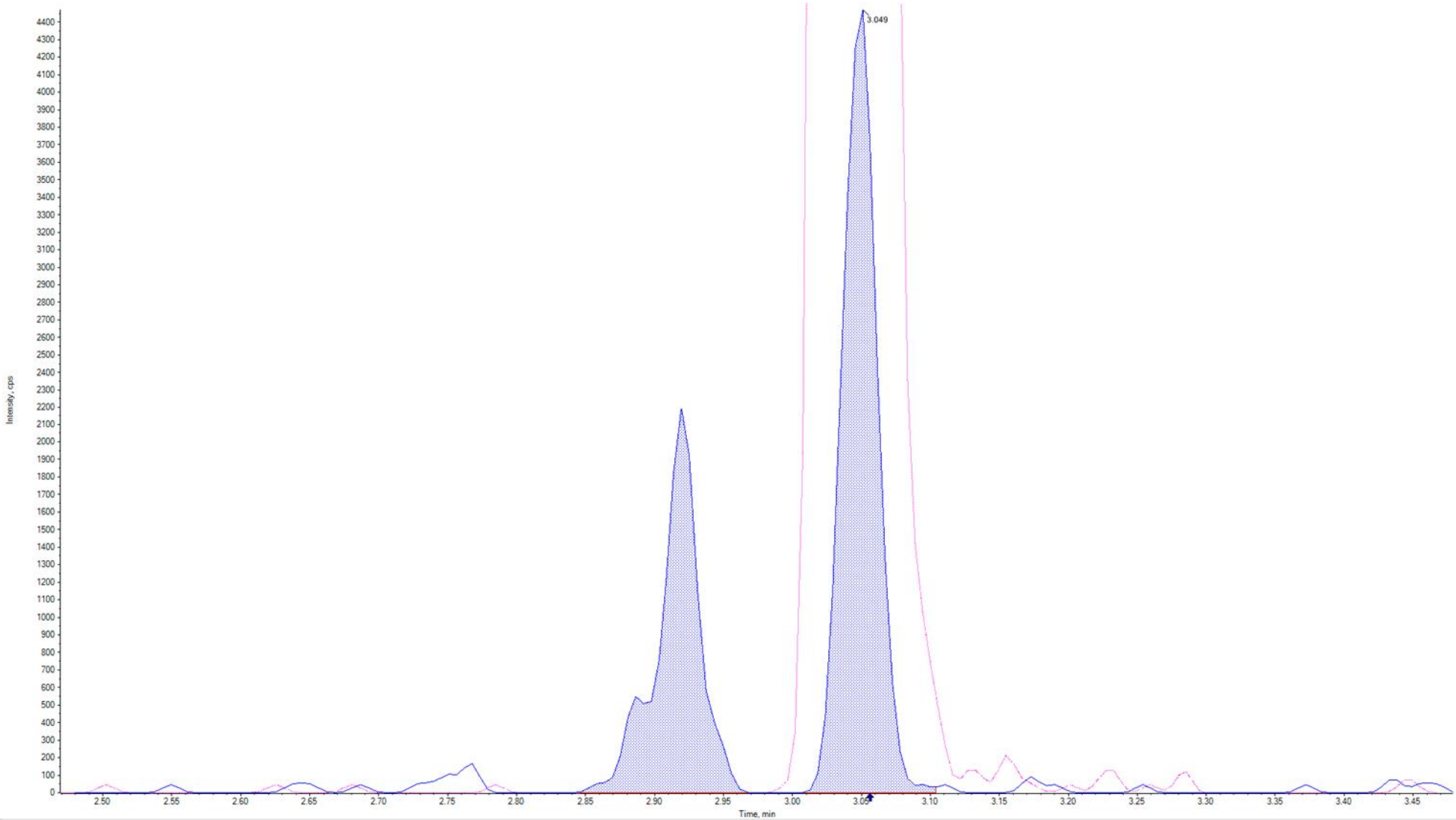
PFOA_2
Sample: L2470744-17 S/N:100.8 Points Across peak:48



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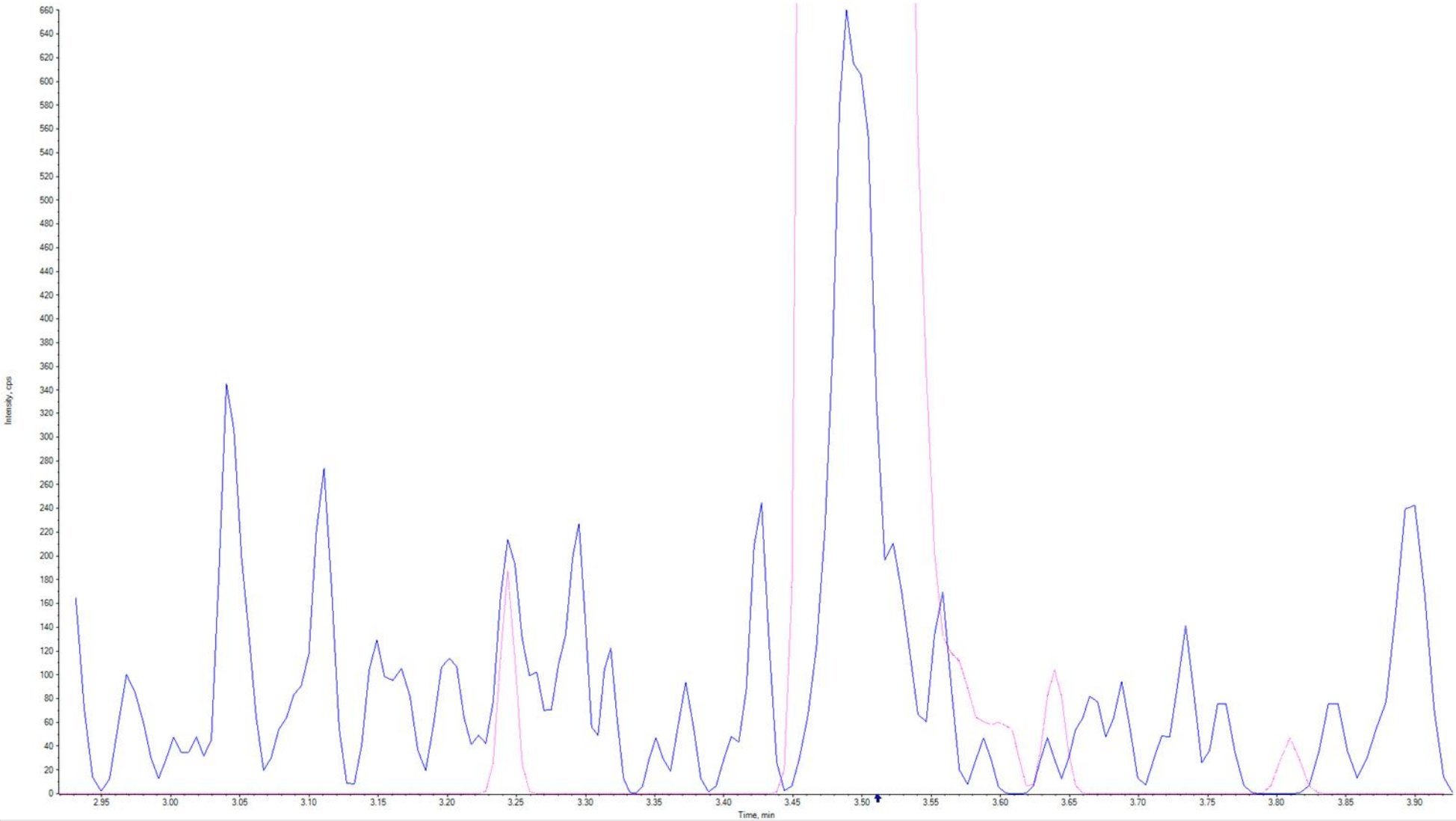
PFNA
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



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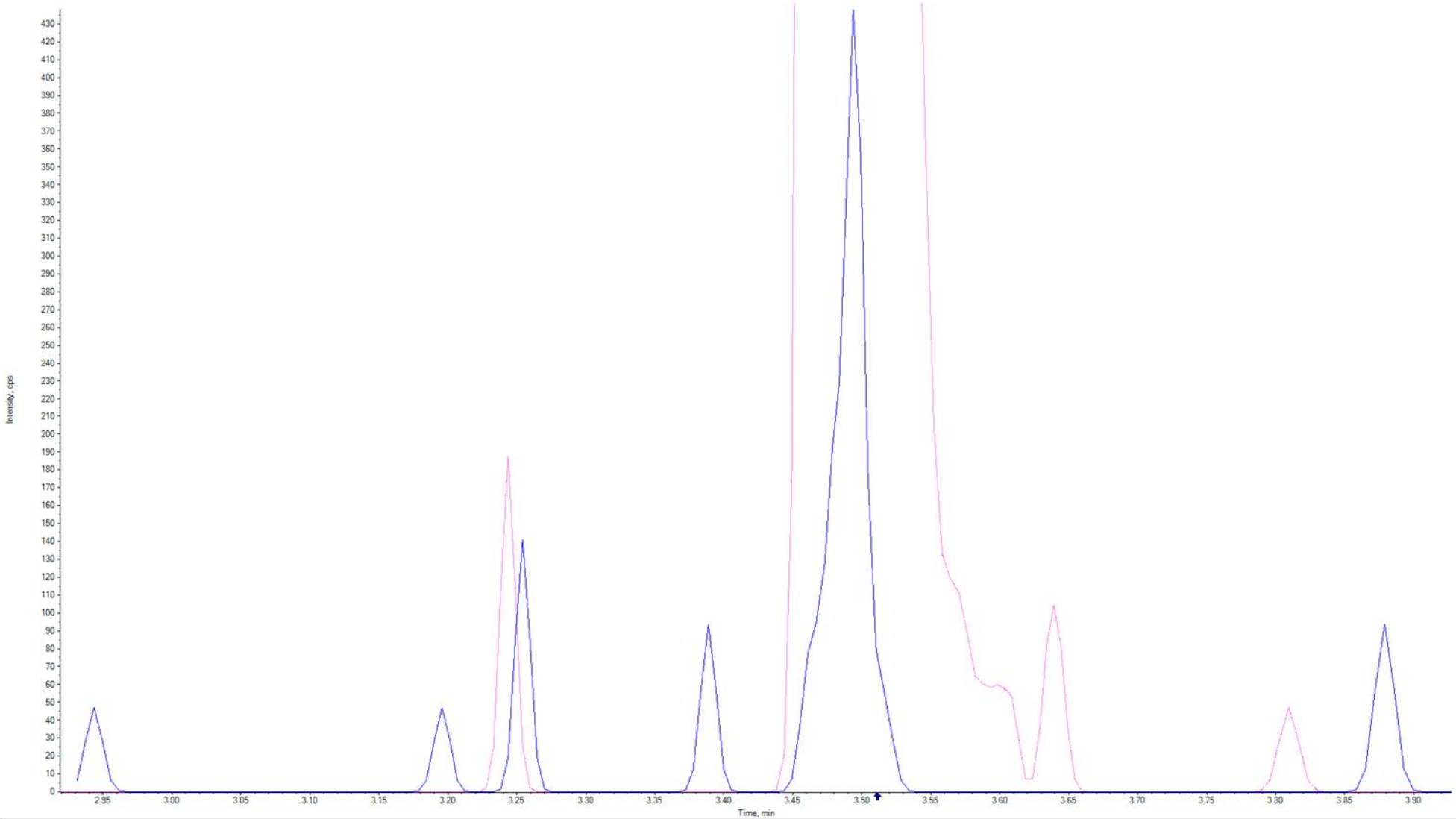
PFNA_2
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



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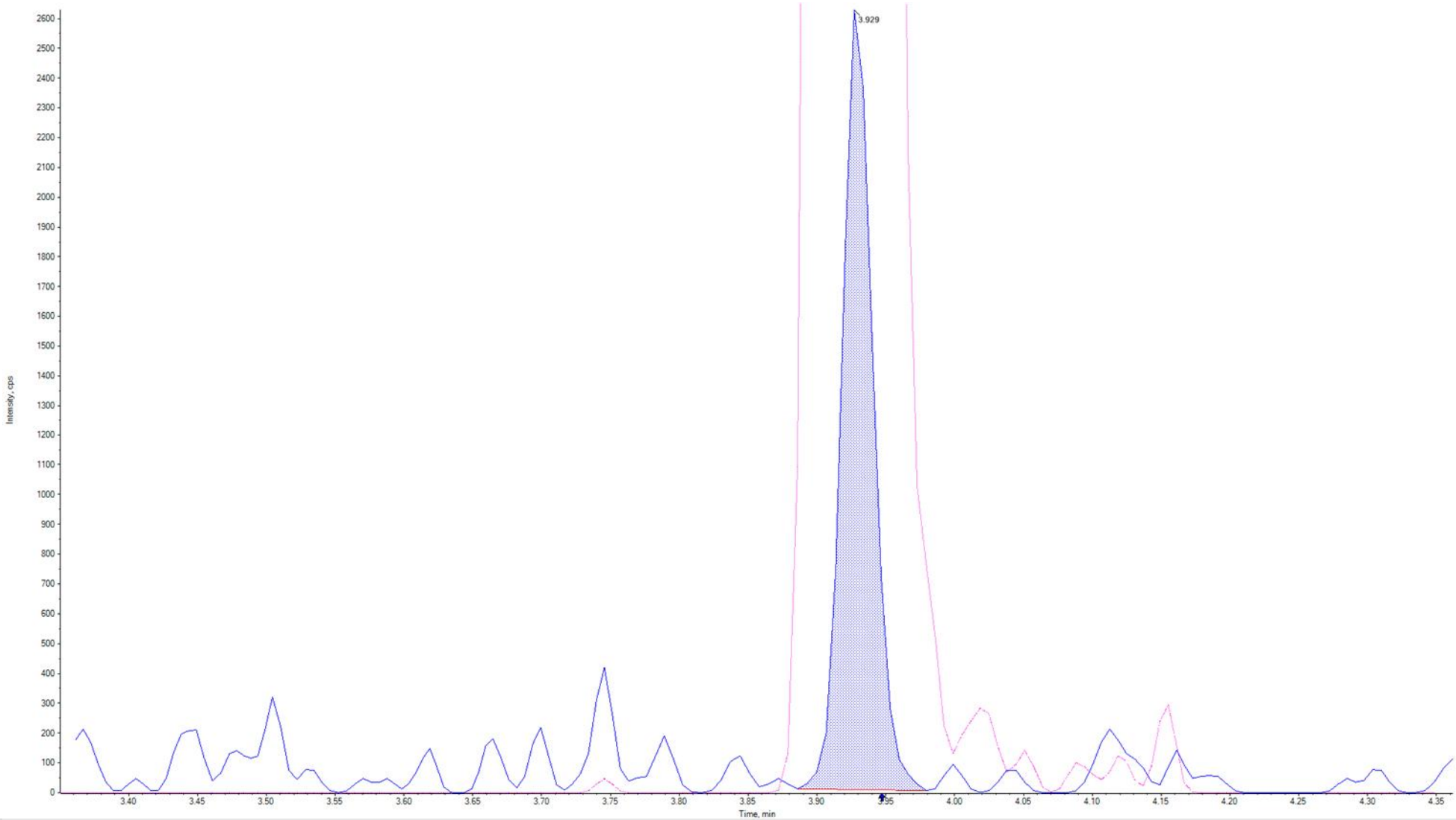
PFDA
Sample: L2470744-17 S/N:52.5 Points Across peak:15



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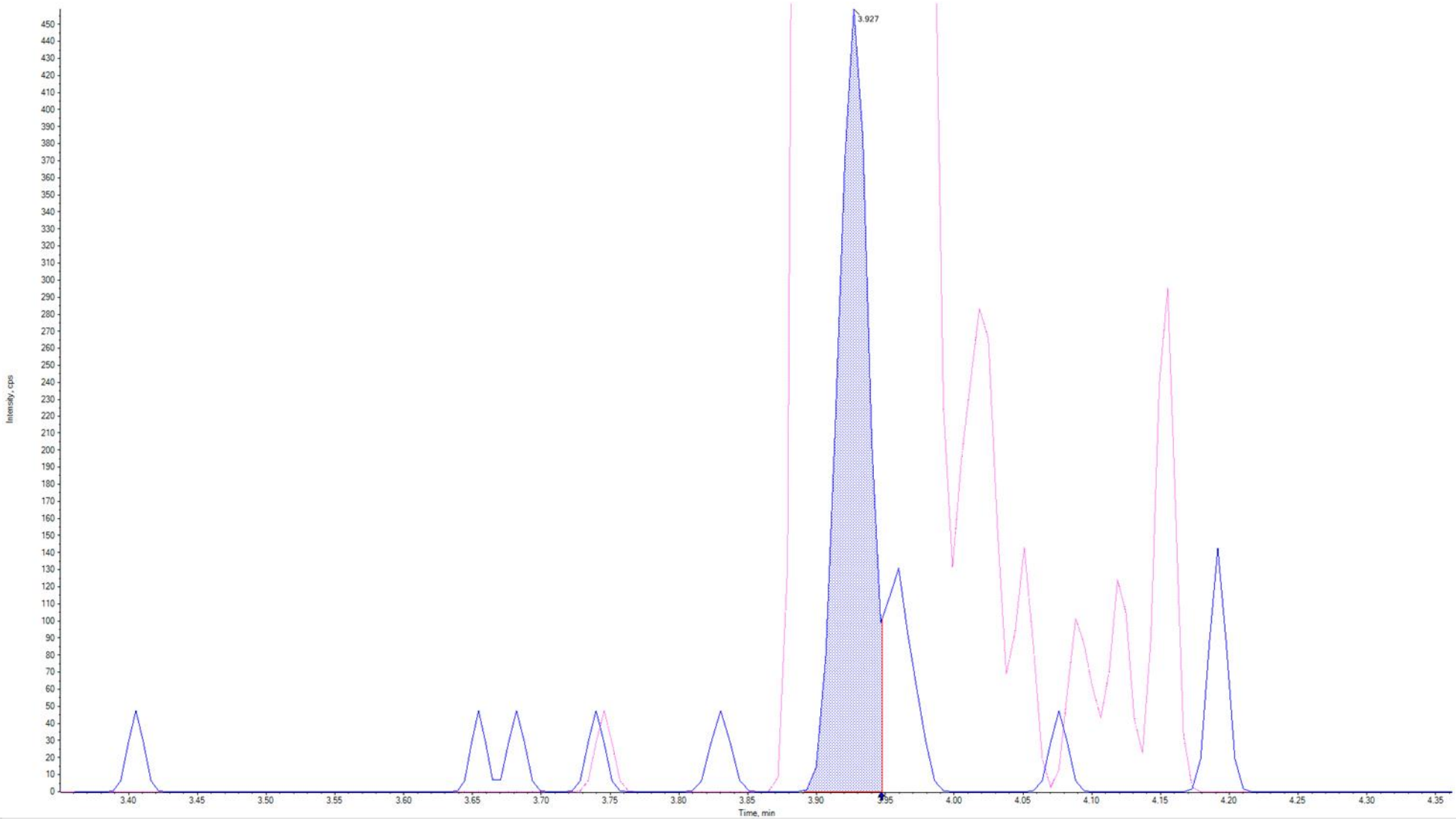
PFDA_2
Sample: L2470744-17 S/N:9.2 Points Across peak:11



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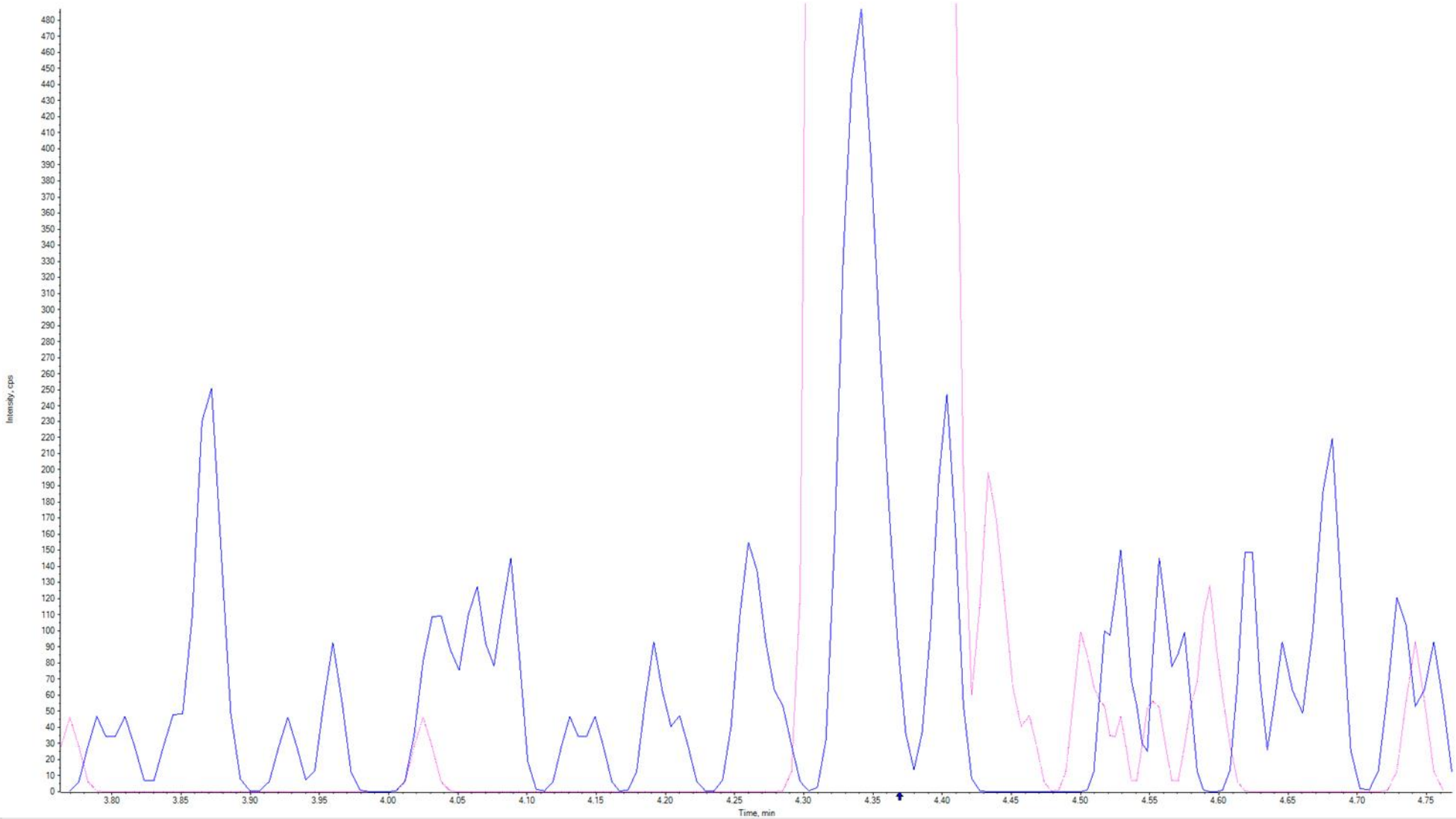
PFUnA
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



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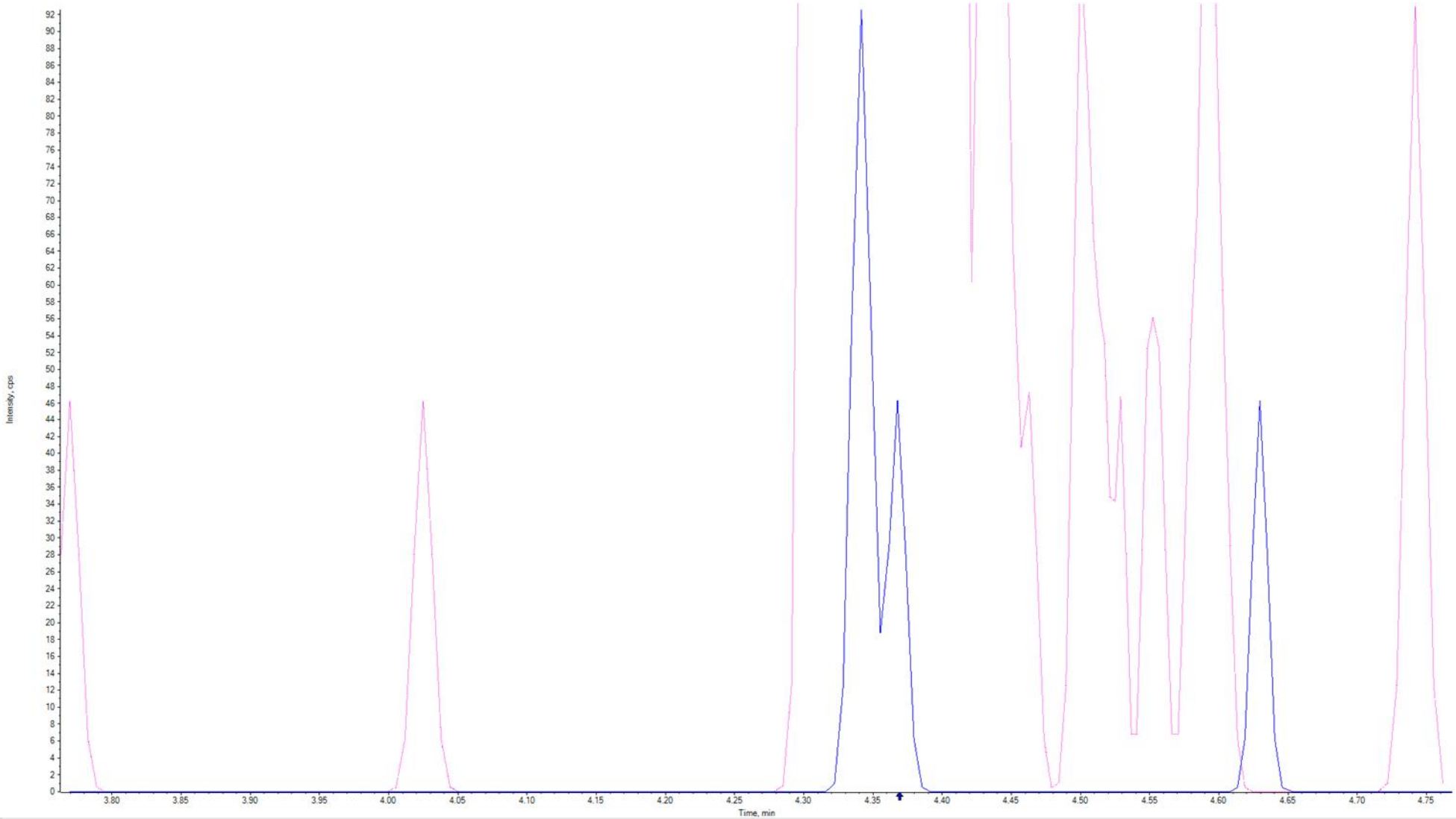
PFUnA_2
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



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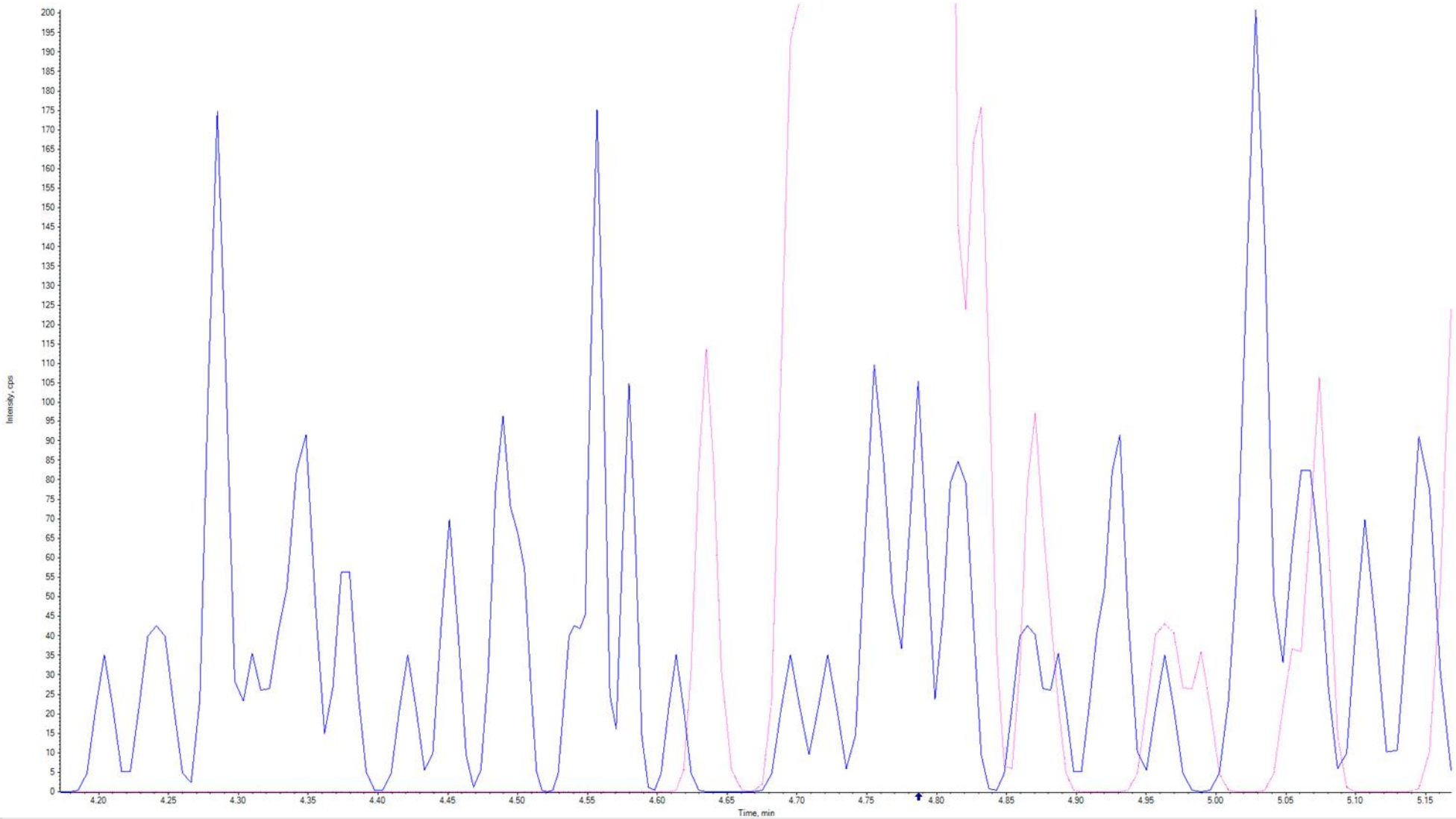
PFDoA
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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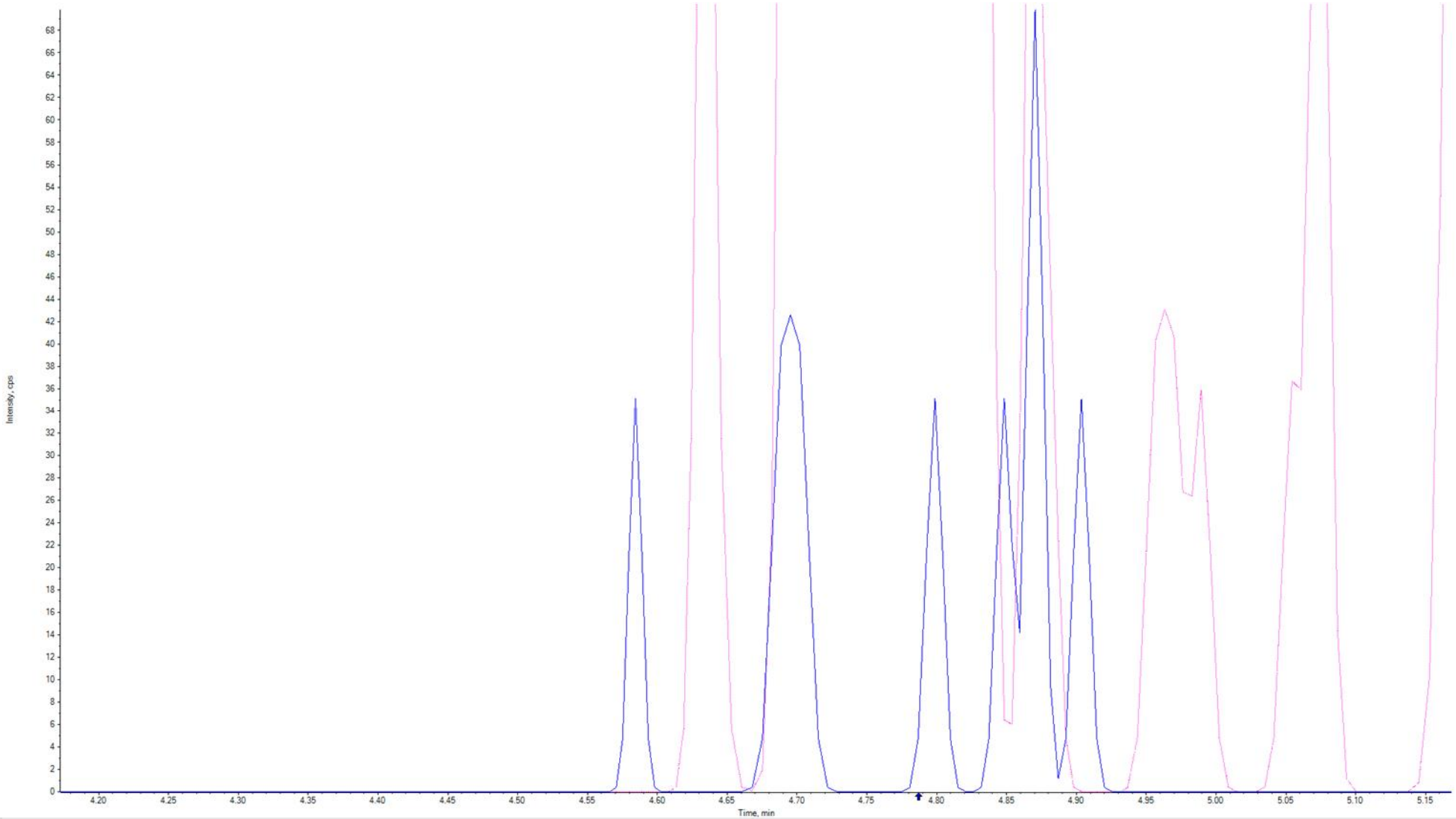
PFDoA_2
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



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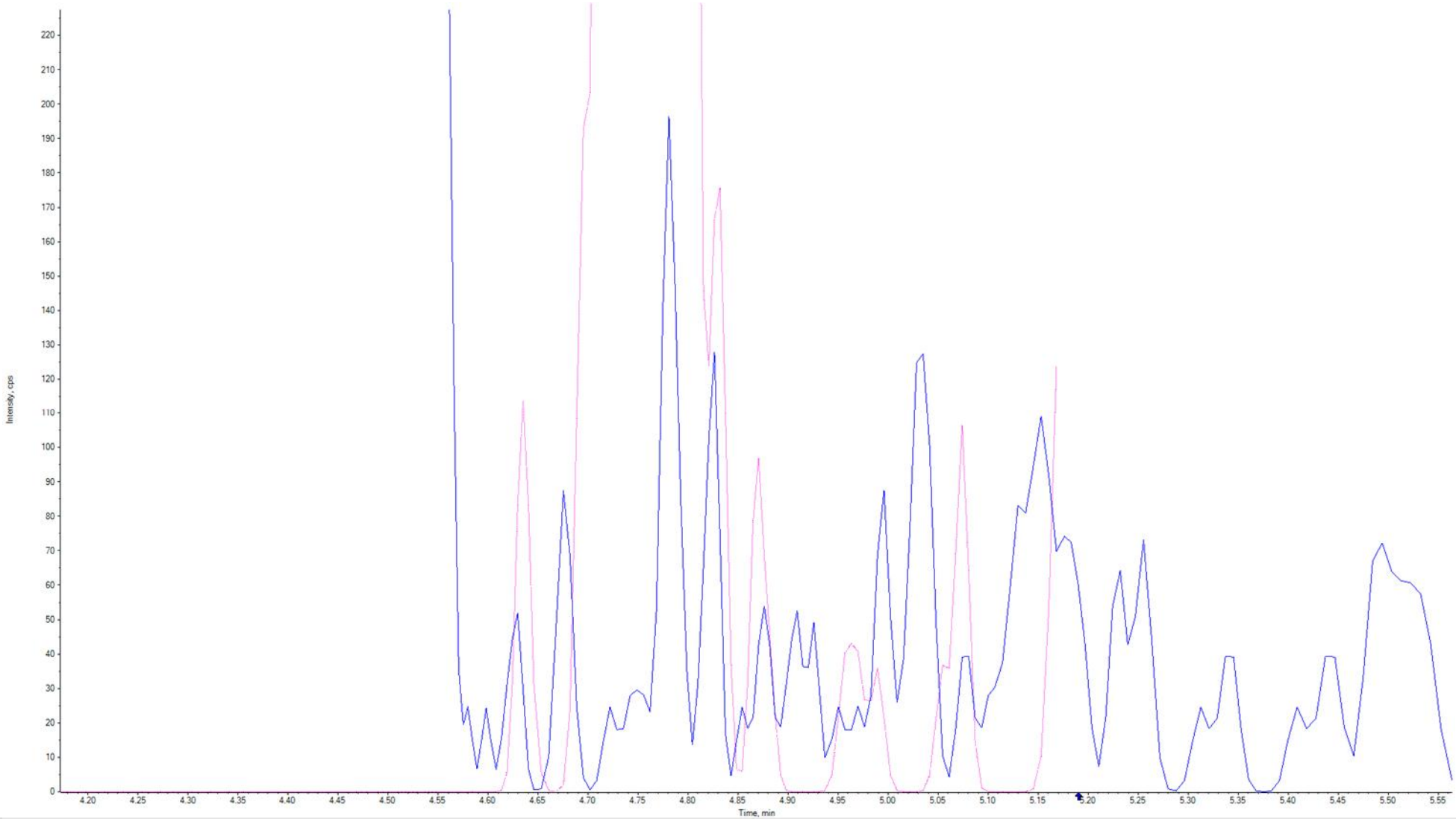
PFTrDA
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



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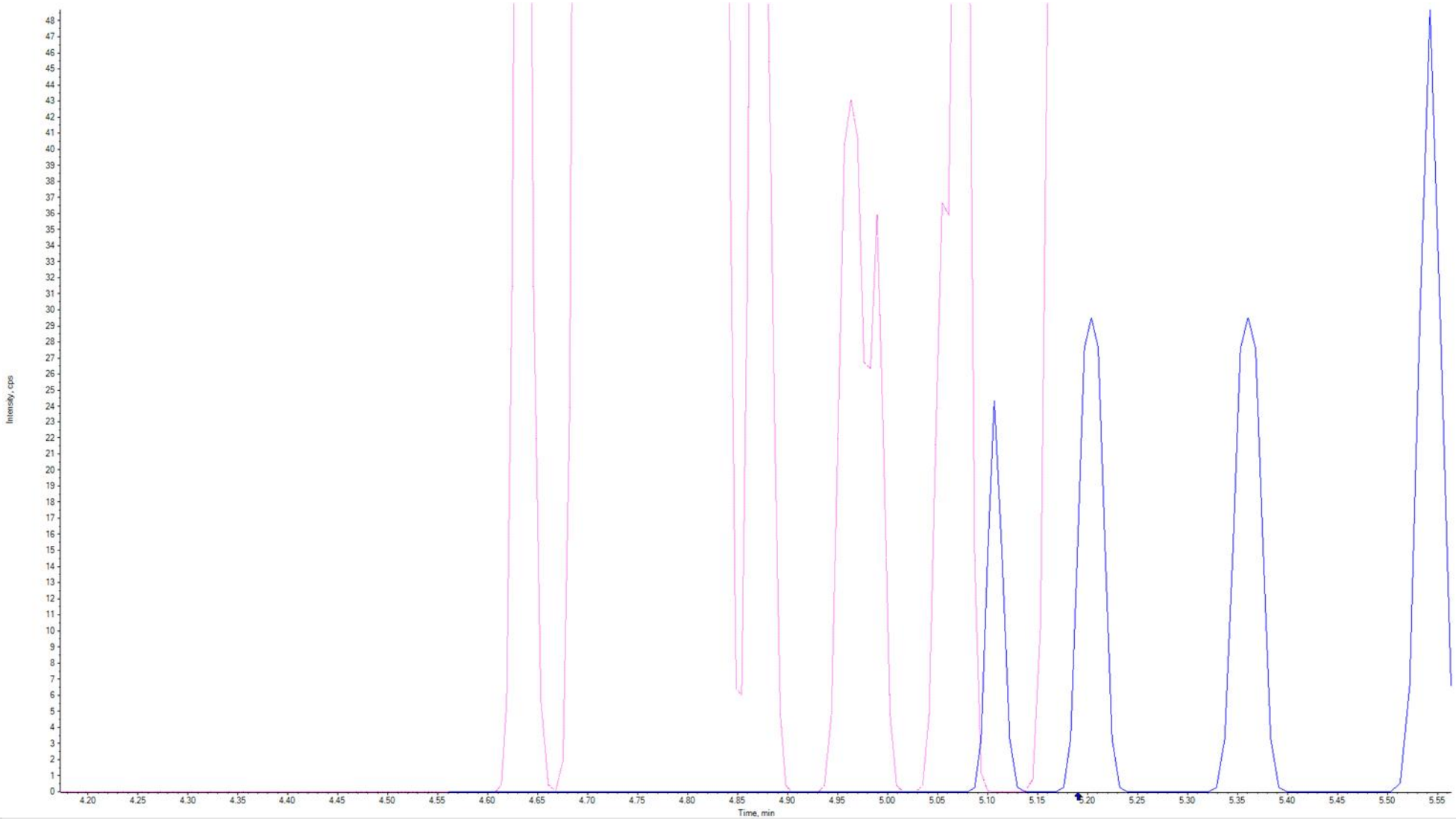
PFTrDA_2
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



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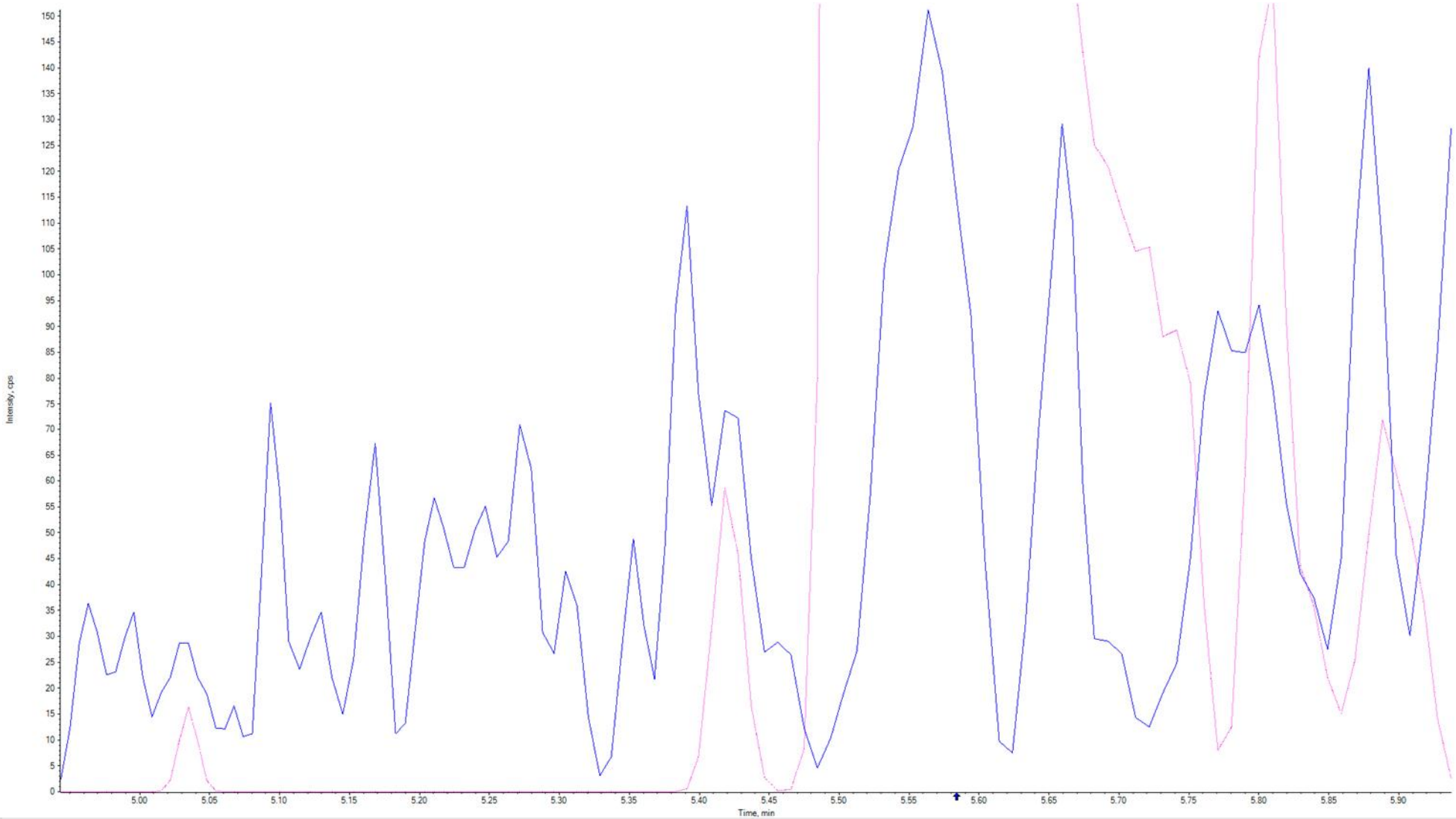
PFTeDA
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



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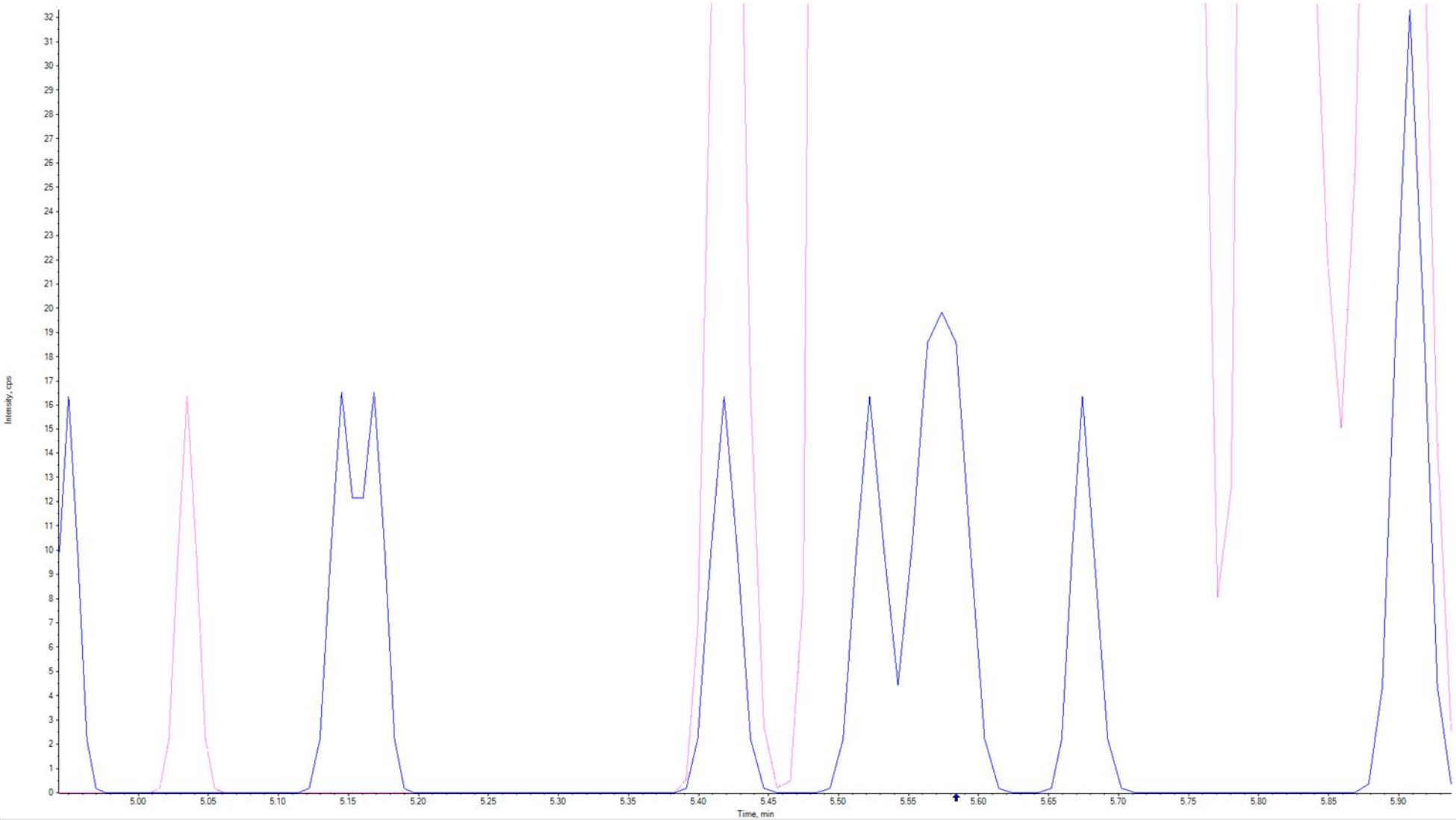
PFTeDA_2
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



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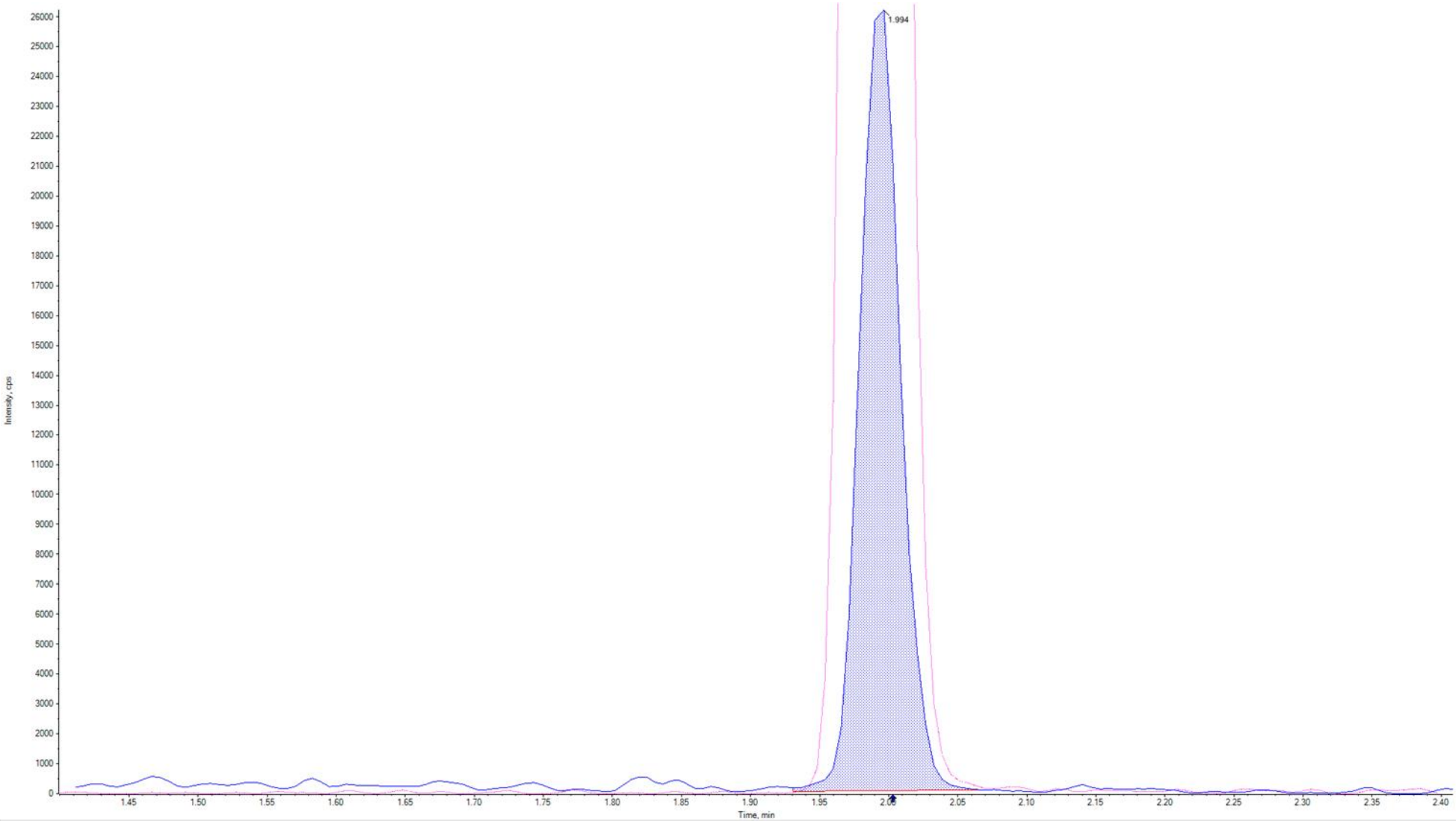
PFBS
Sample: L2470744-17 S/N:654.9 Points Across peak:24



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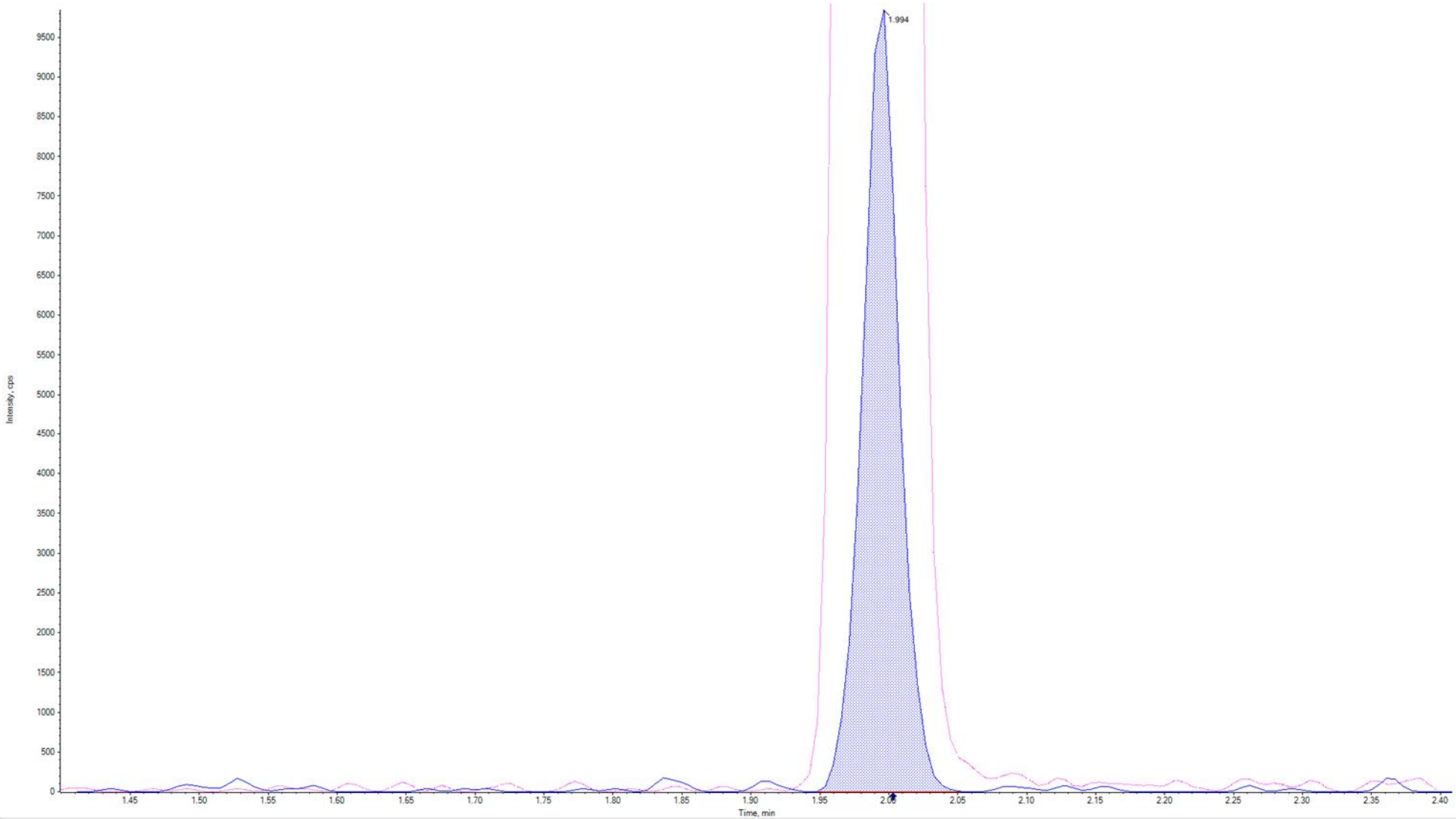
PFBS_2
Sample: L2470744-17 S/N:246.7 Points Across peak:20



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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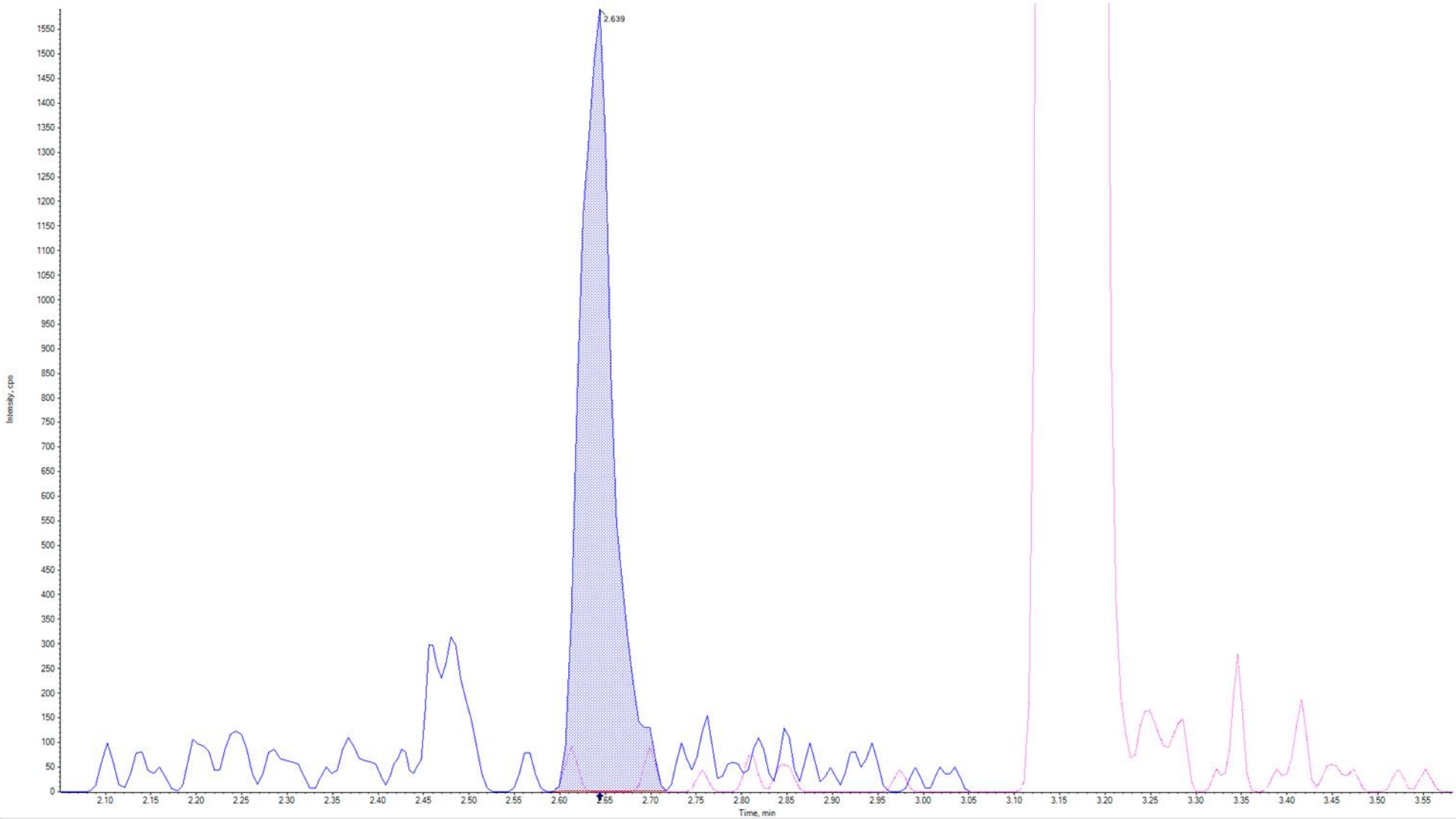
PFPeS
Sample: L2470744-17 S/N:31.9 Points Across peak:22



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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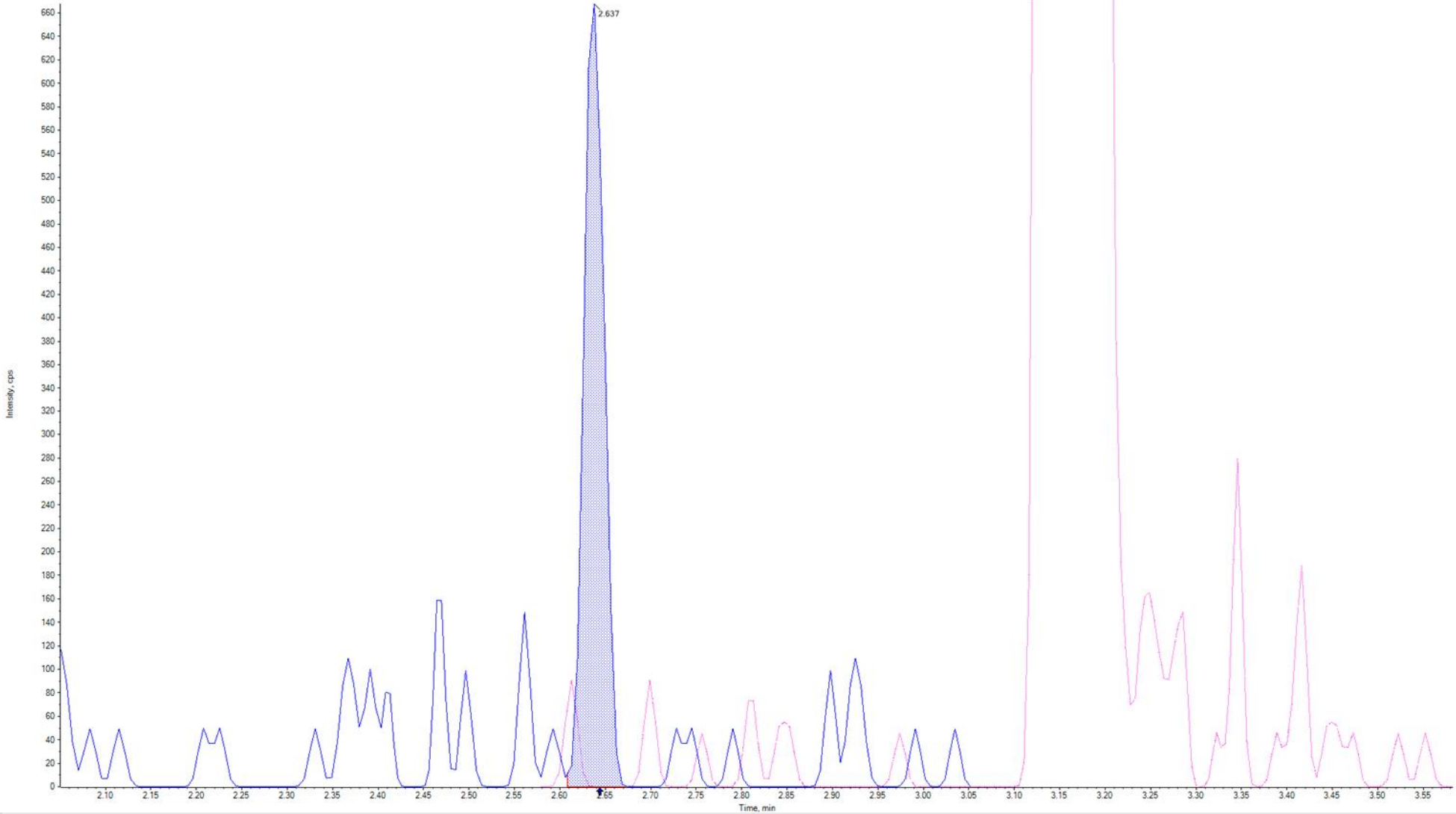
PFPeS_2
Sample: L2470744-17 S/N:13.4 Points Across peak:12



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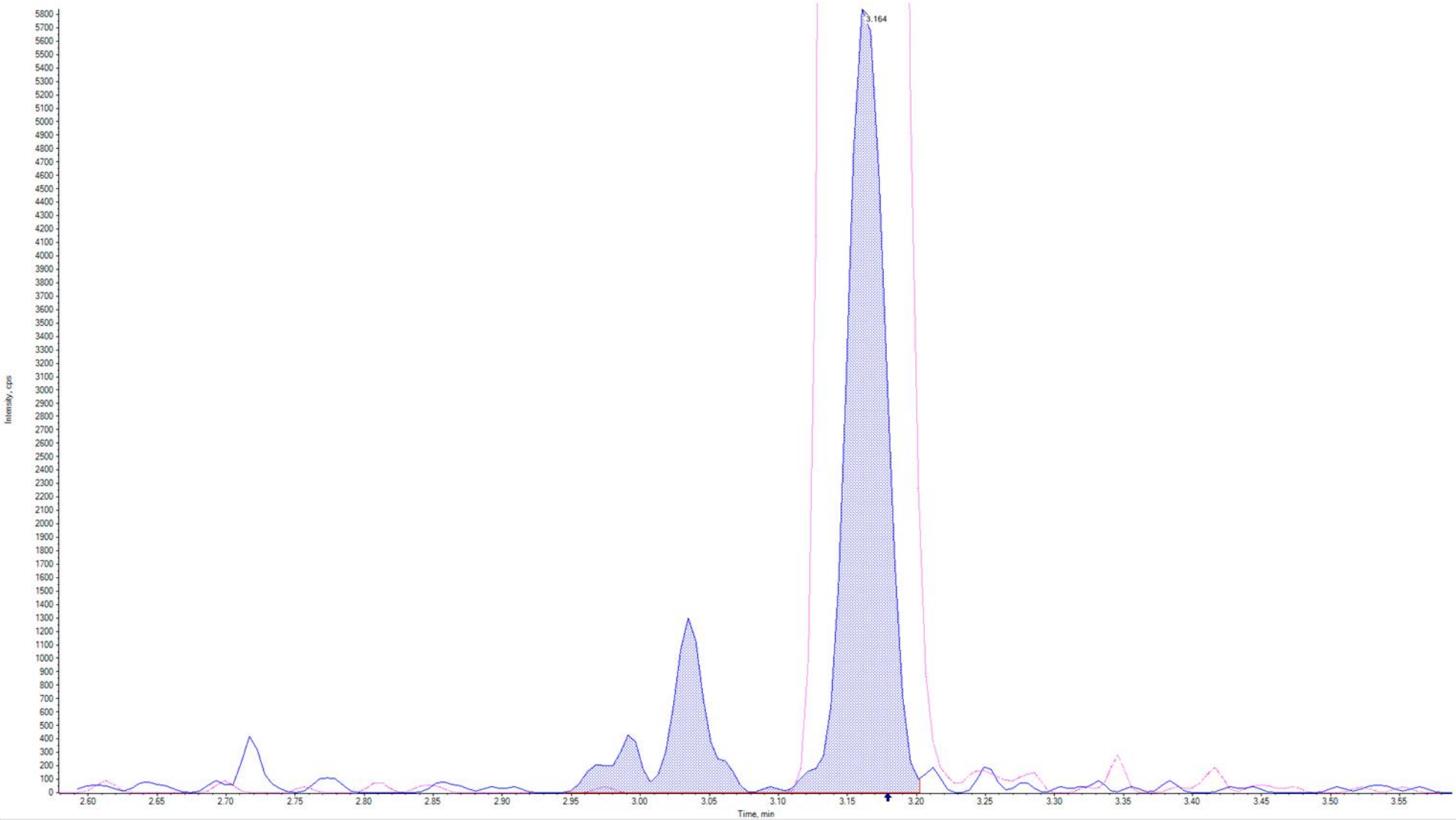
PFHxS
Sample: L2470744-17 S/N:131.7 Points Across peak:48



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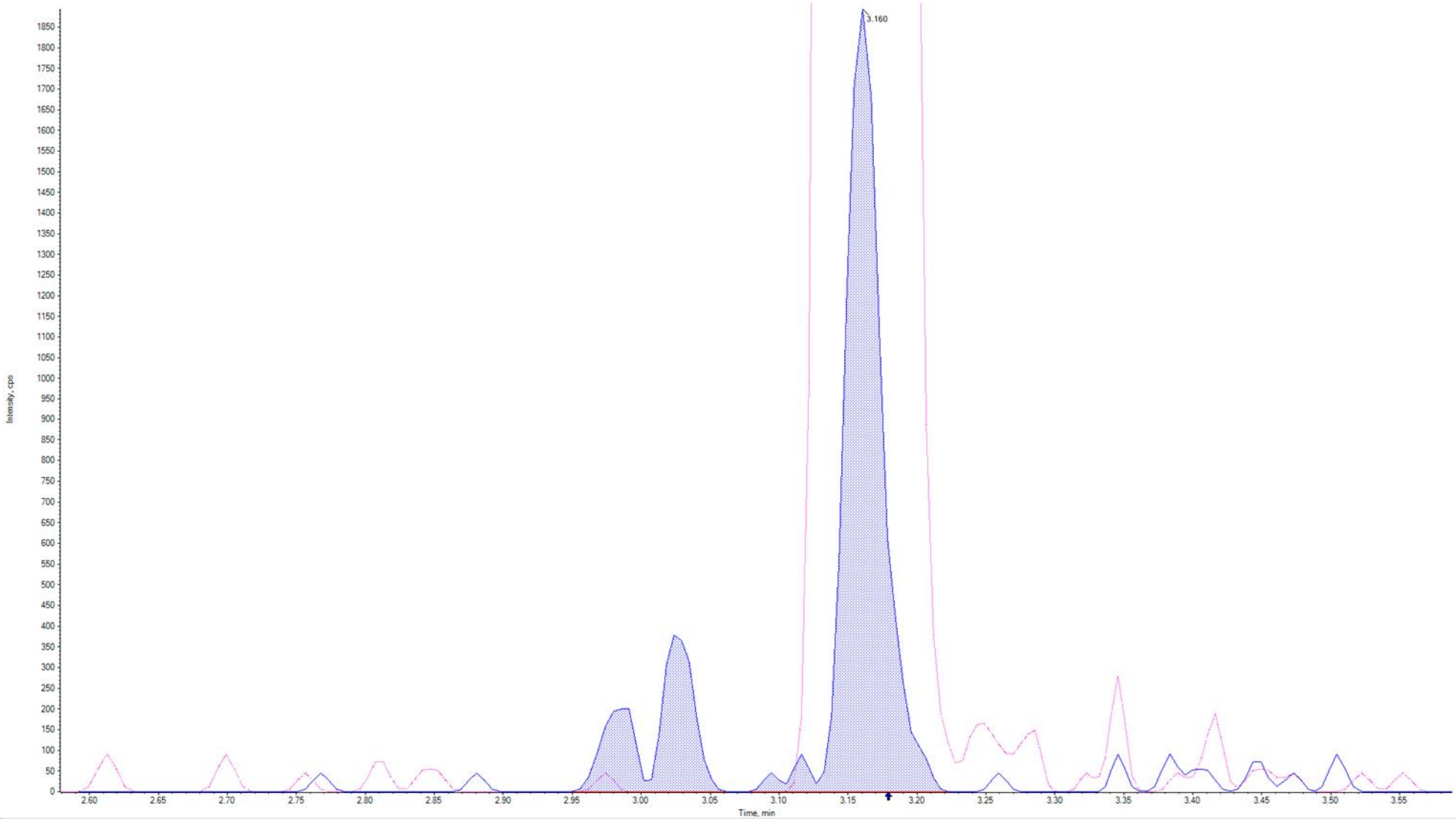
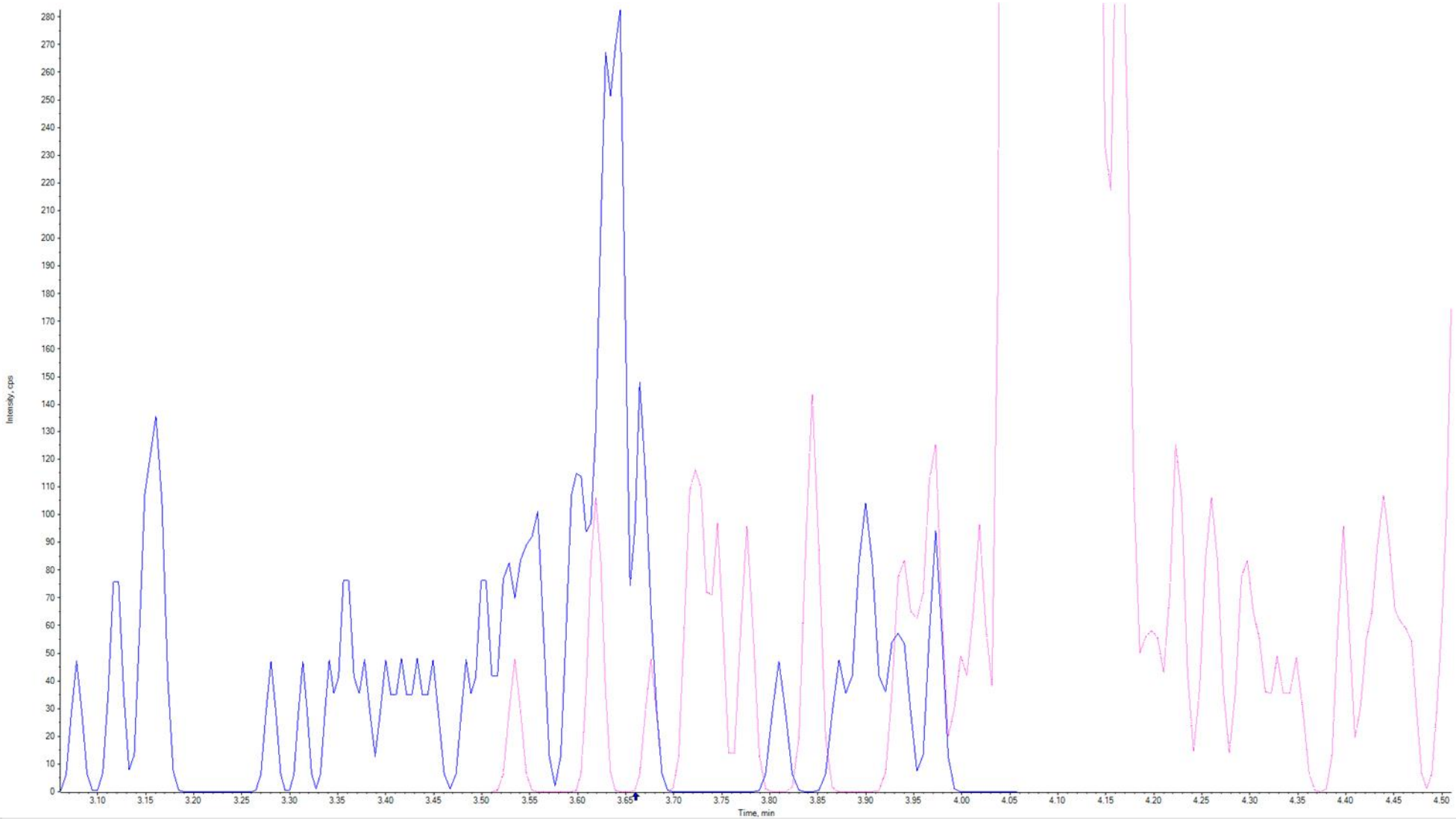
Generated: 12/20/2024 10:43:43 AM

PFHxS_2
Sample: L2470744-17 S/N:42.7 Points Across peak:51



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_41.wiff2_8
Last Altered: 12/20/2024 12:41:04 PM
Generated: 12/20/2024 10:43:43 AM

PFHpS
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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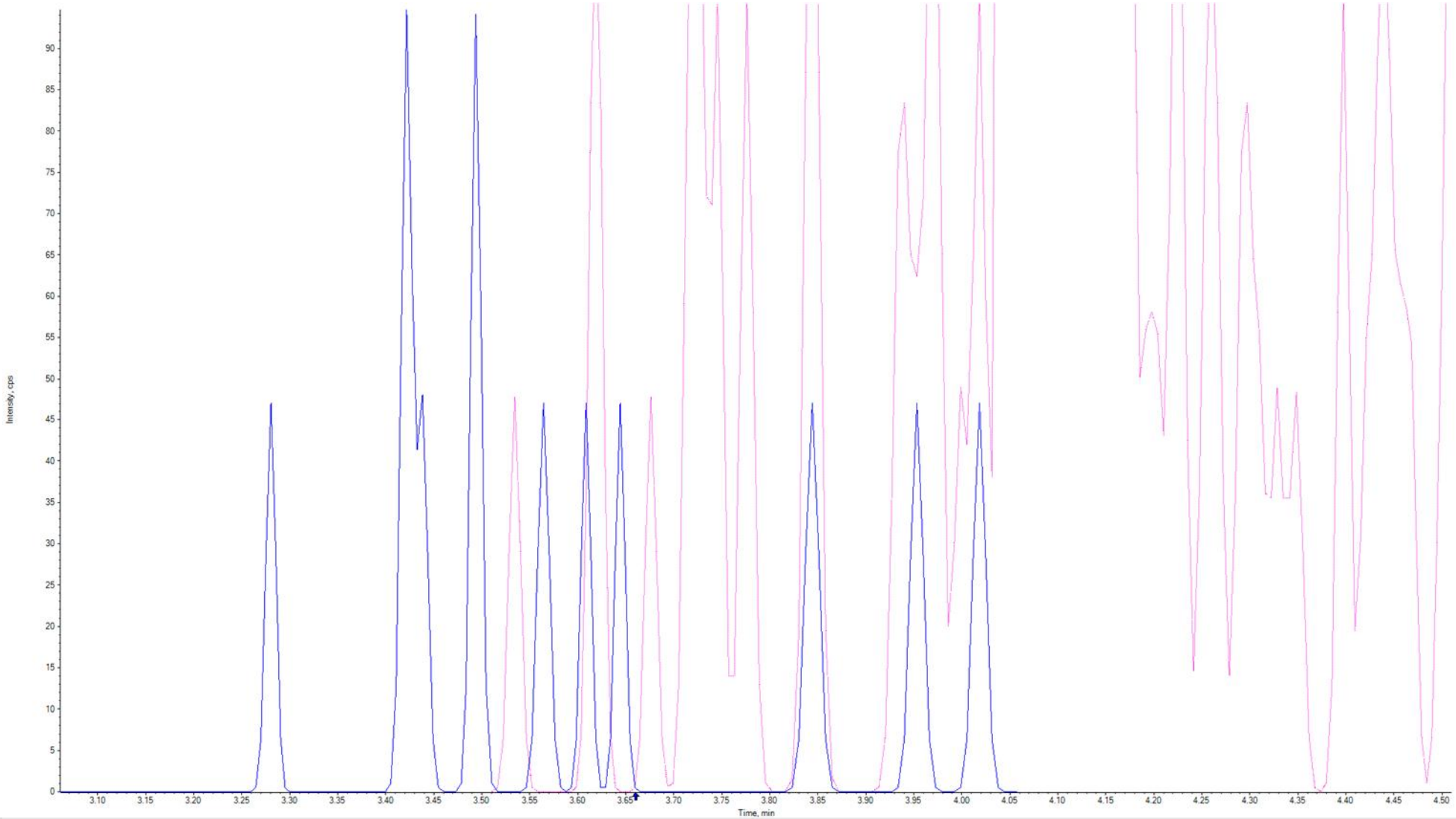
Last Altered: 12/20/2024 12:41:04 PM
Generated: 12/20/2024 10:43:43 AM

PFHpS_2
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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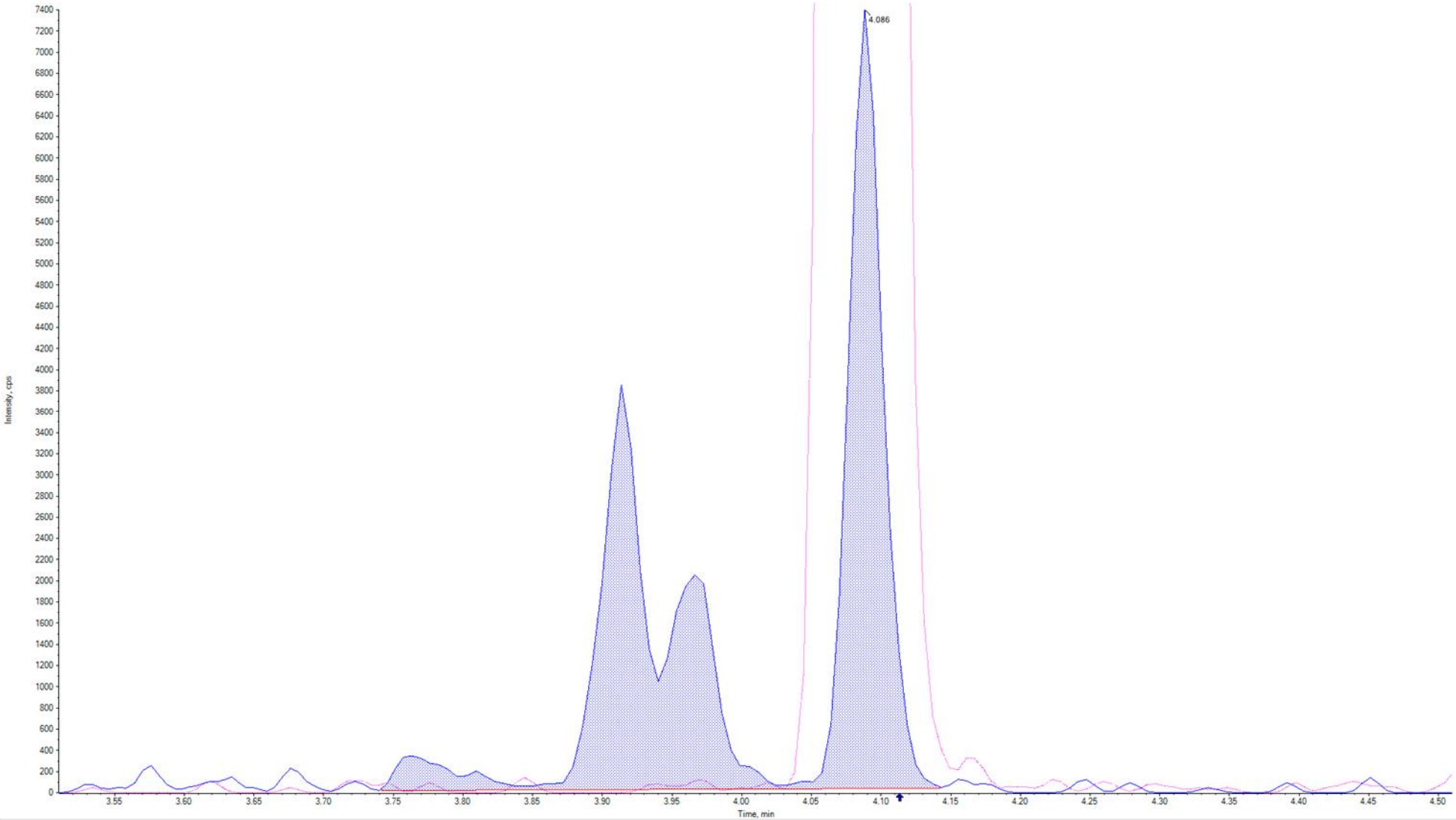
Last Altered: 12/20/2024 12:41:04 PM
Generated: 12/20/2024 10:43:43 AM

PFOS
Sample: L2470744-17 S/N:115.4 Points Across peak:63



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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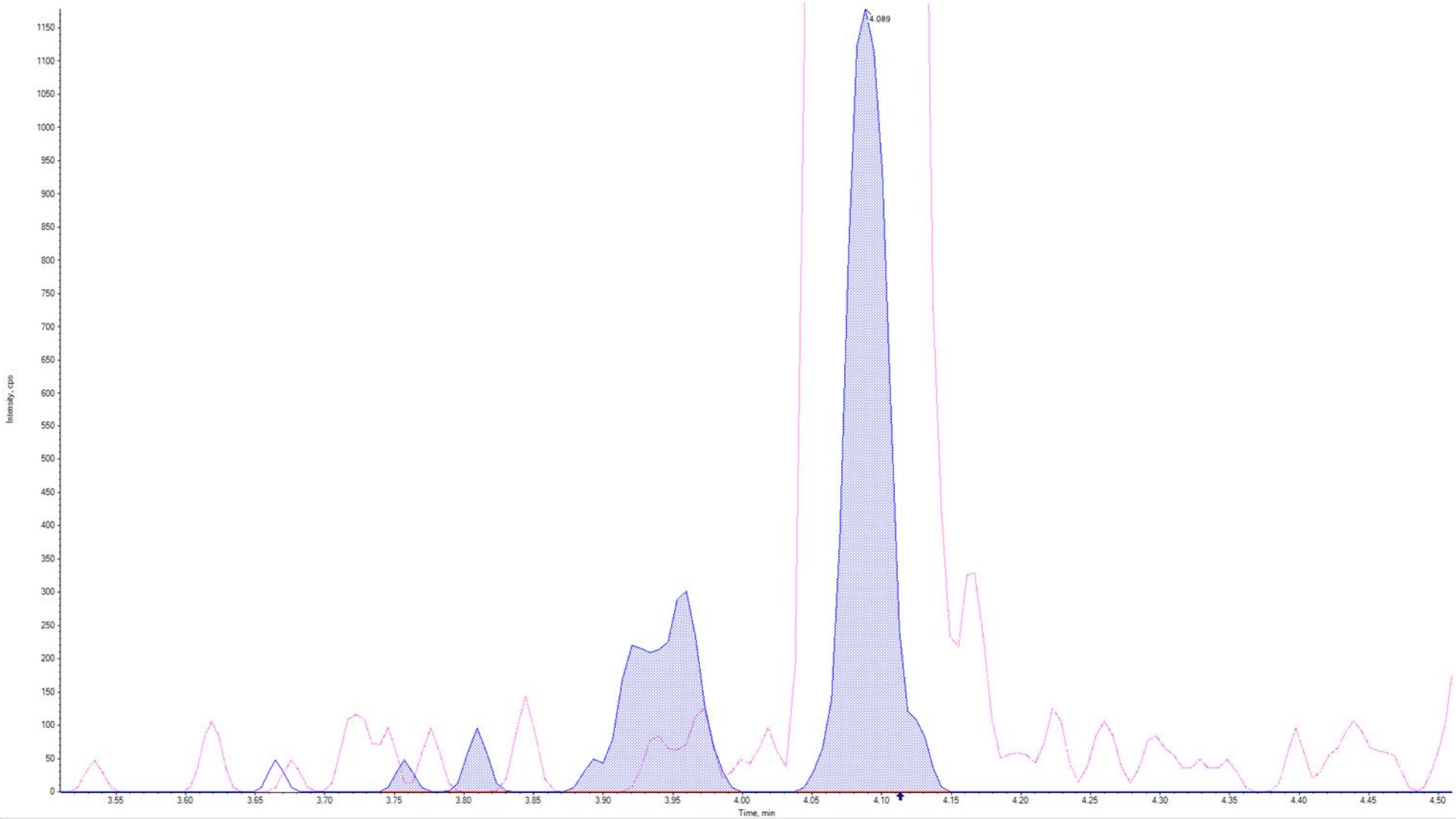
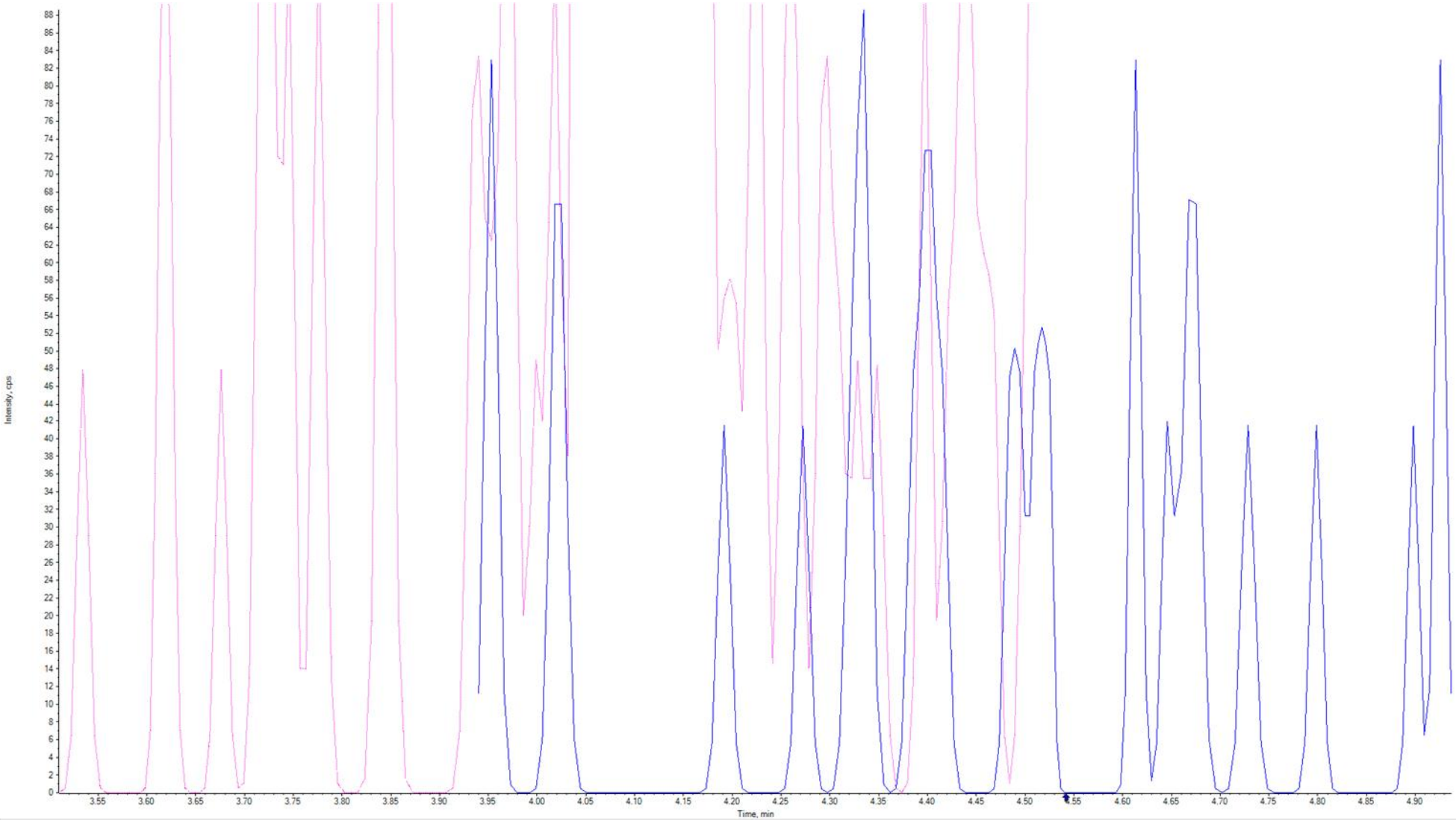
Last Altered: 12/20/2024 12:41:04 PM
Generated: 12/20/2024 10:43:43 AM

PFOS_2
Sample: L2470744-17 S/N:23.6 Points Across peak:67



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_41.wiff2_8
Last Altered: 12/20/2024 12:41:04 PM
Generated: 12/20/2024 10:43:43 AM

PFNS
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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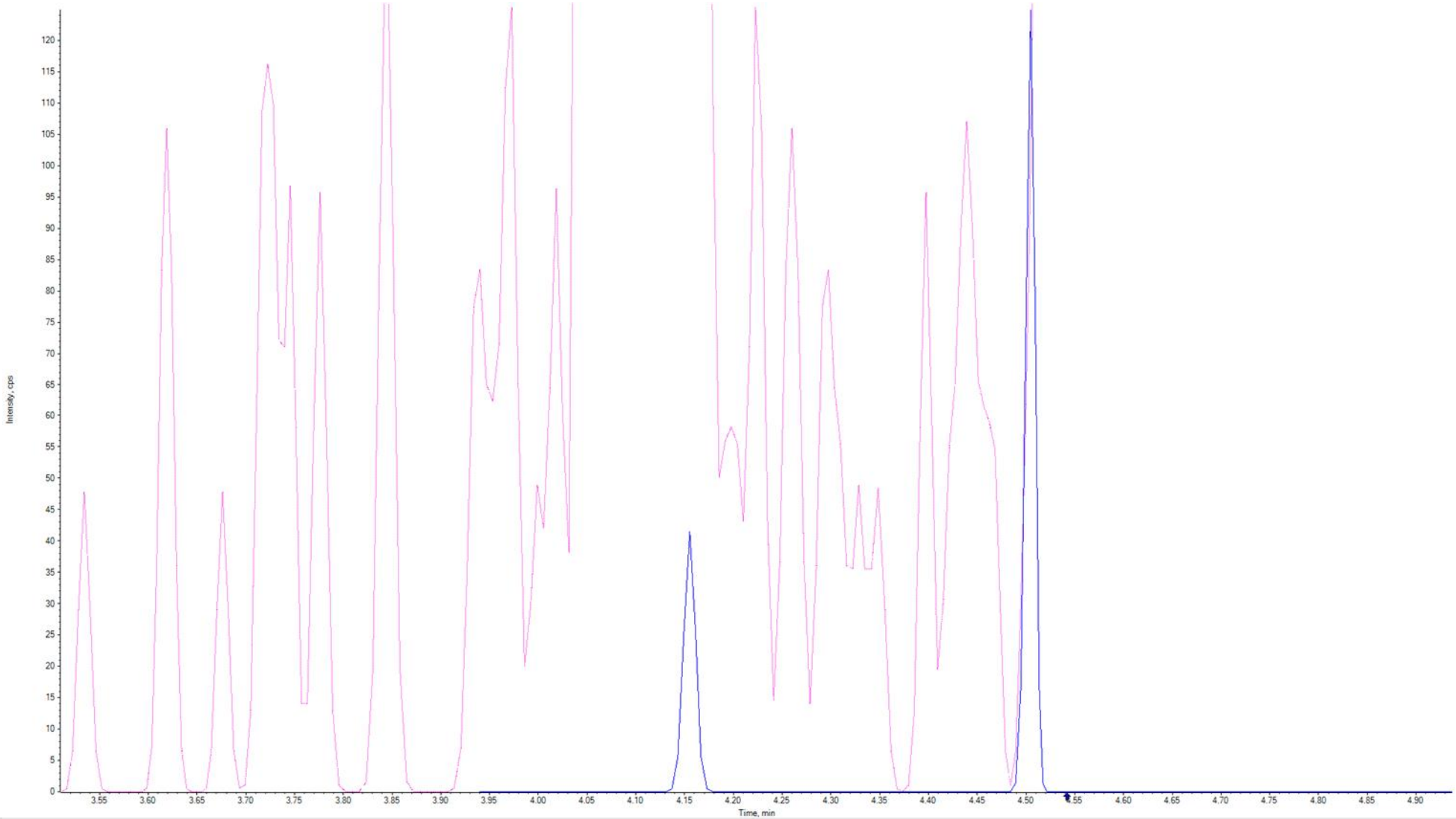
Last Altered: 12/20/2024 12:41:04 PM
Generated: 12/20/2024 10:43:43 AM

PFNS_2
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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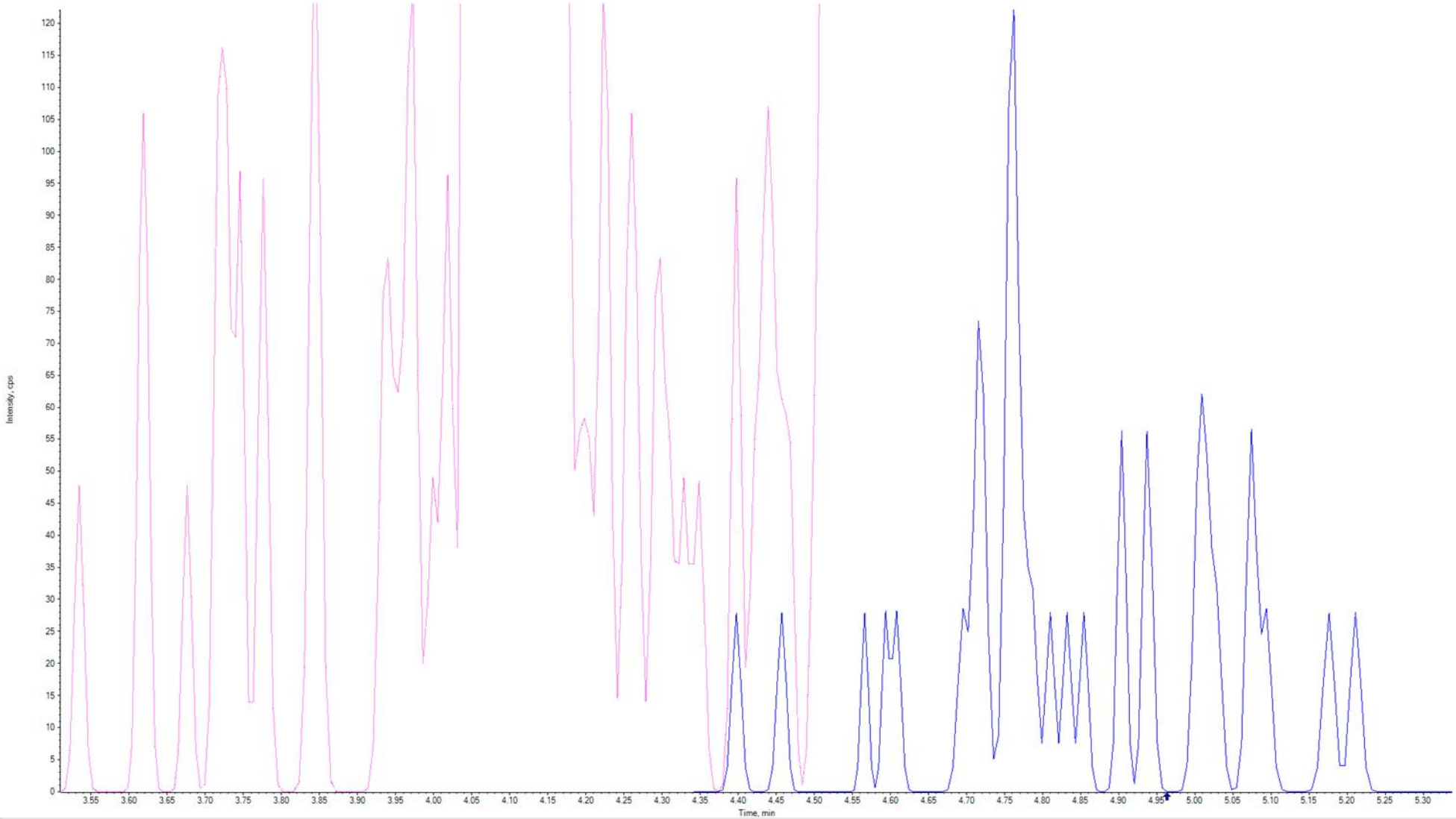
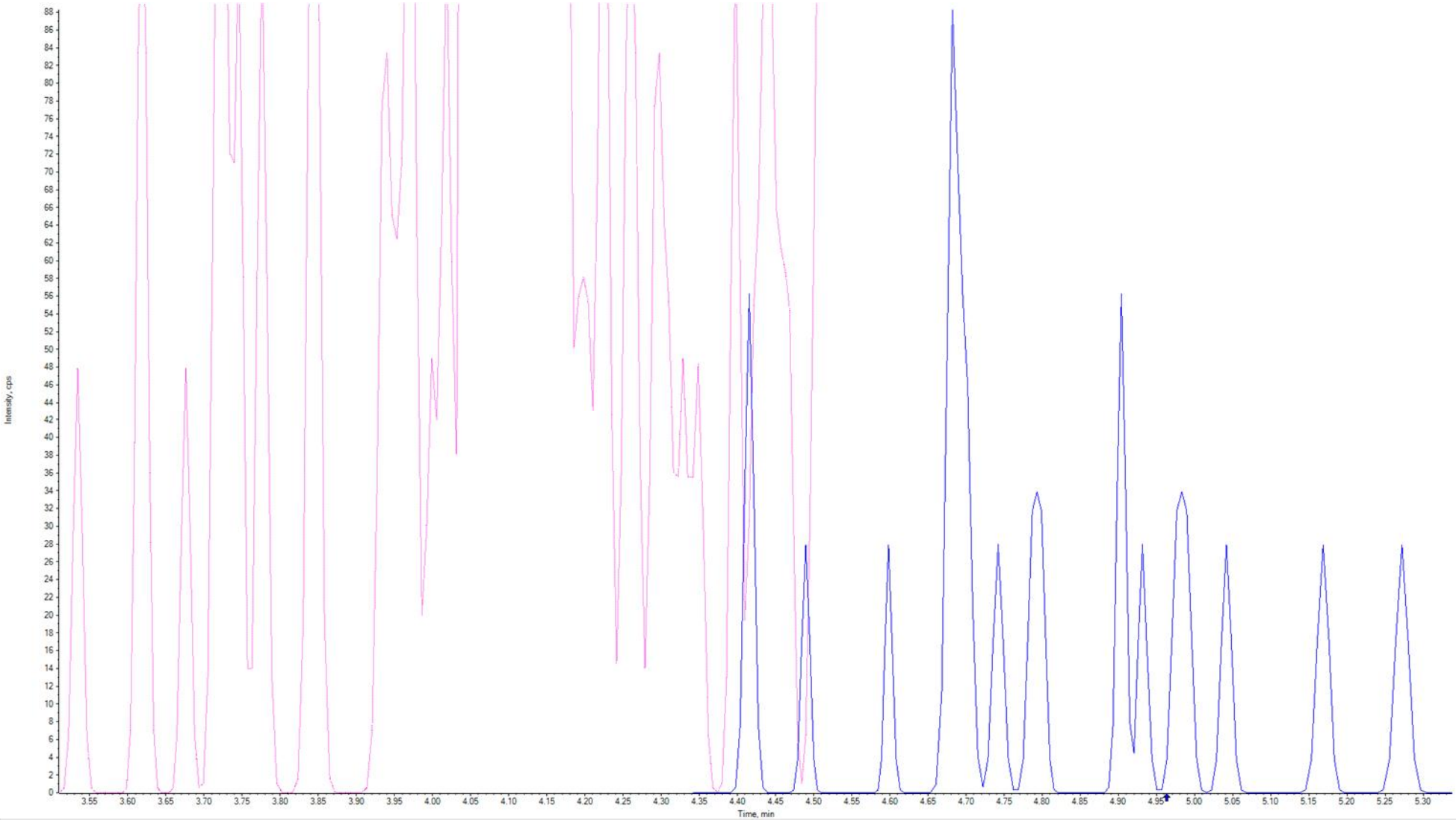
Last Altered: 12/20/2024 12:41:04 PM
Generated: 12/20/2024 10:43:43 AM

PFDS
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_41.wiff2_8
Last Altered: 12/20/2024 12:41:04 PM
Generated: 12/20/2024 10:43:43 AM

PFDS_2
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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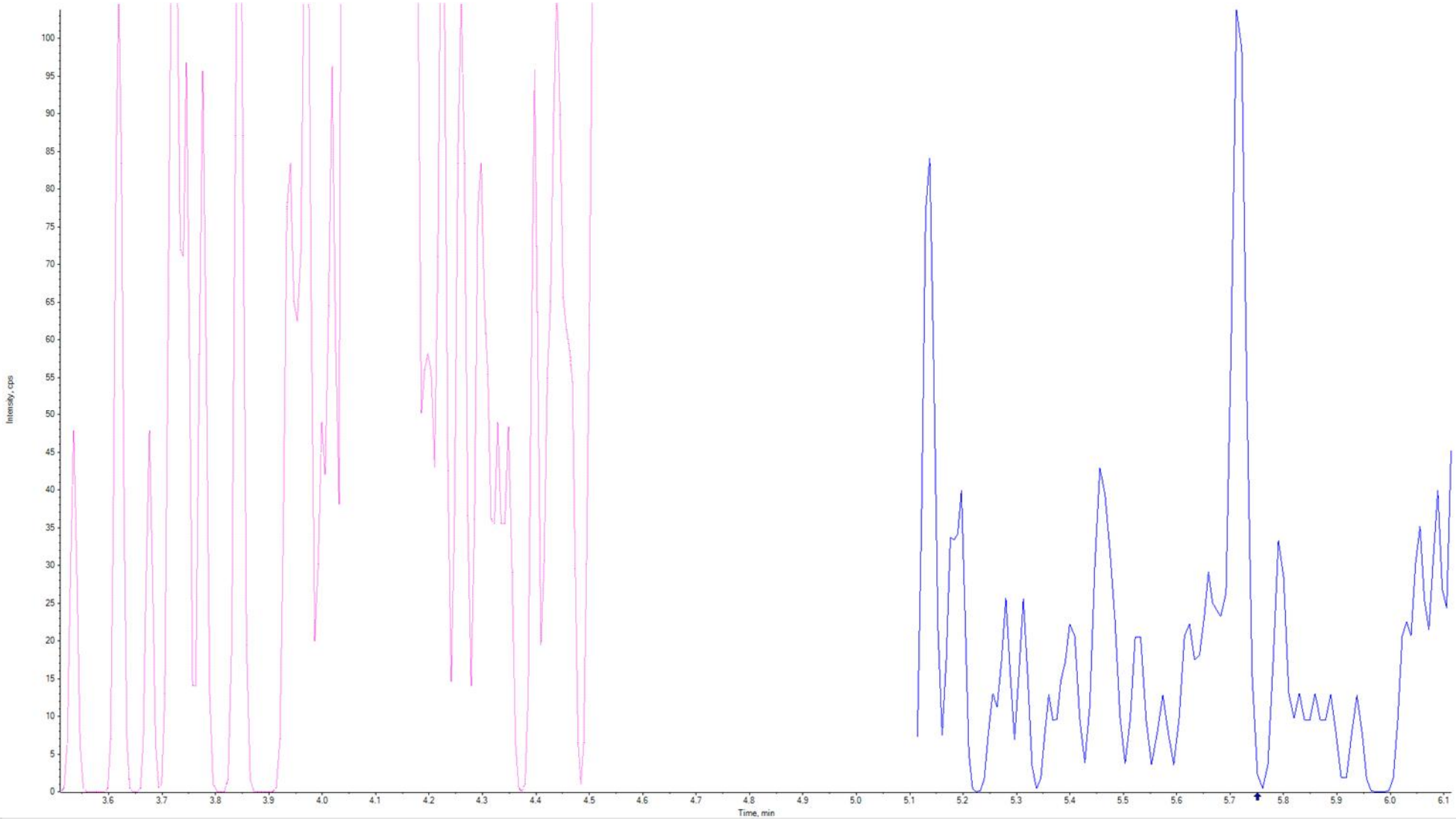
Last Altered: 12/20/2024 12:41:04 PM
Generated: 12/20/2024 10:43:43 AM

PFDoS
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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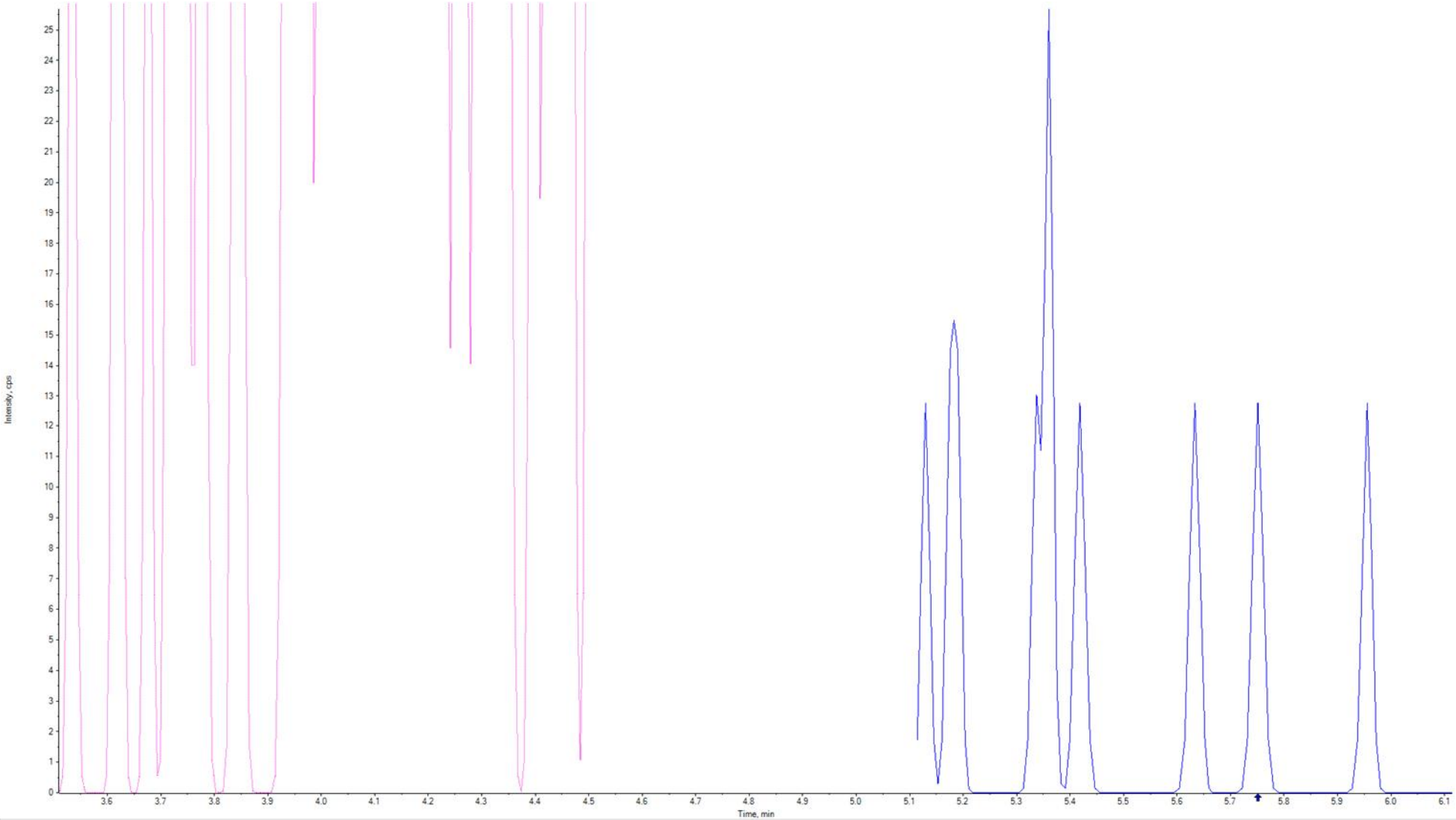
Last Altered: 12/20/2024 12:41:04 PM
Generated: 12/20/2024 10:43:43 AM

PFDoS_2
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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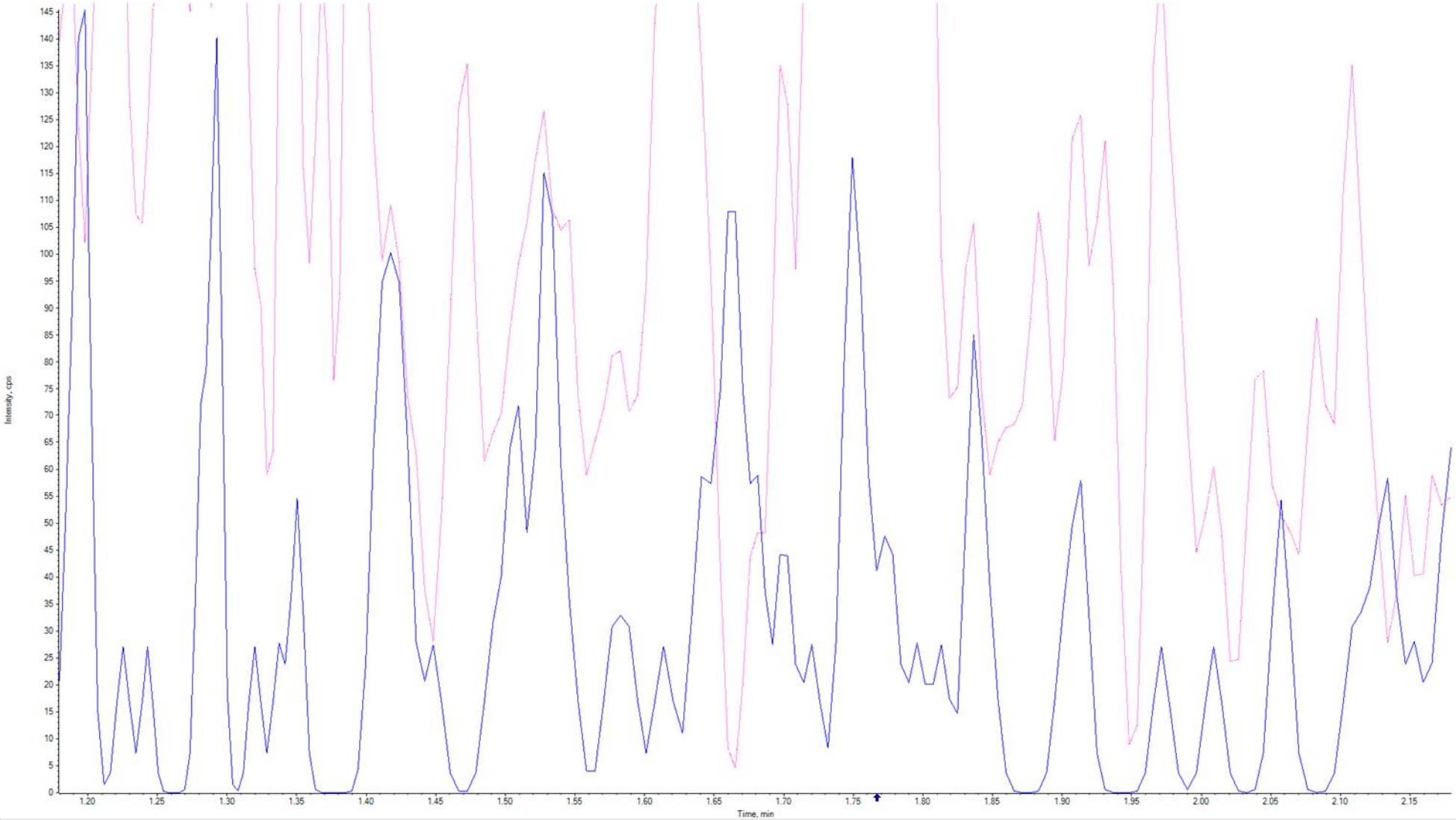
Last Altered: 12/20/2024 12:41:04 PM
Generated: 12/20/2024 10:43:43 AM

4:2FTS
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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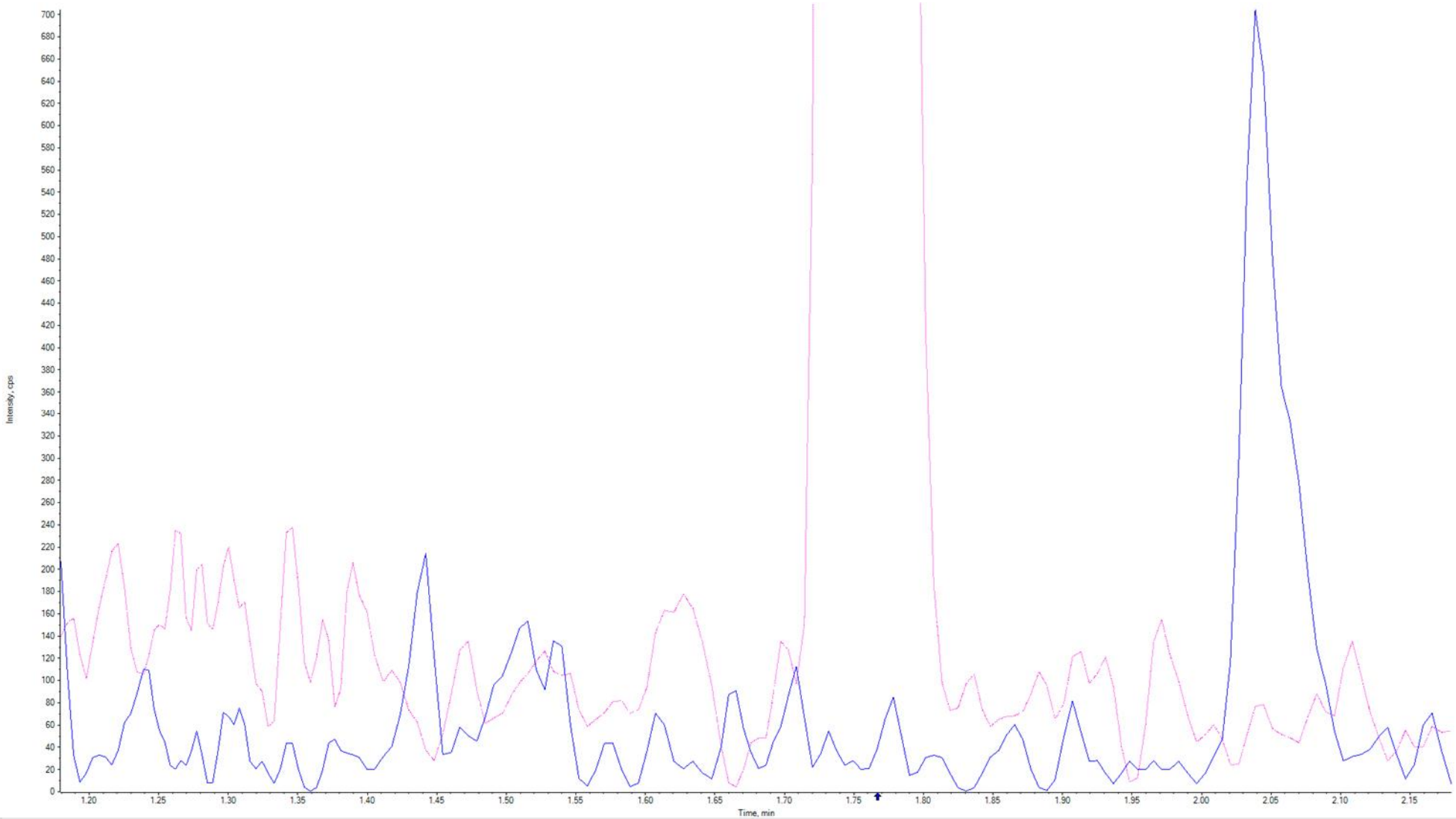
Last Altered: 12/20/2024 12:41:04 PM
Generated: 12/20/2024 10:43:43 AM

4:2FTS_2
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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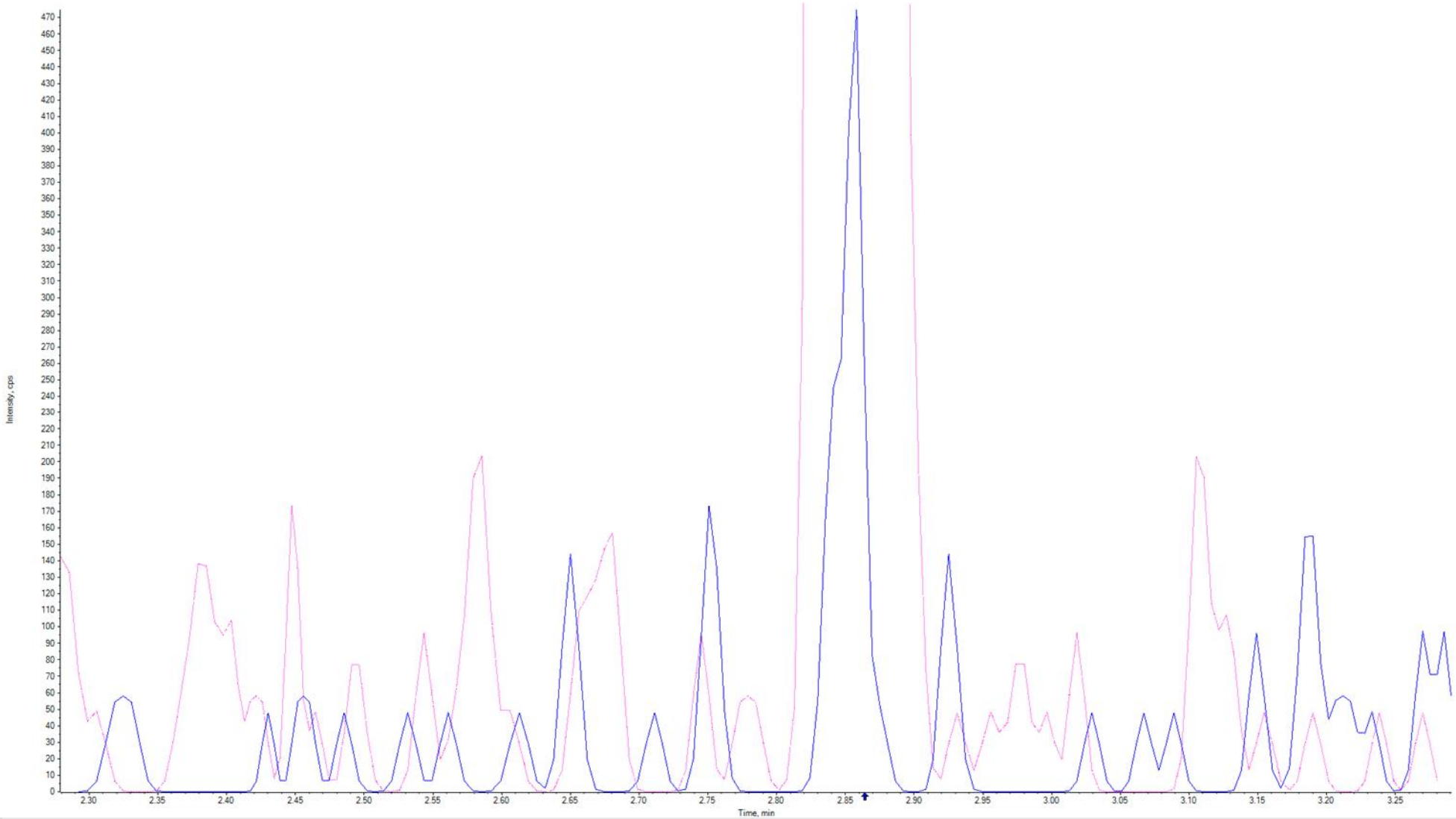
Last Altered: 12/20/2024 12:41:04 PM
Generated: 12/20/2024 10:43:43 AM

6:2FTS
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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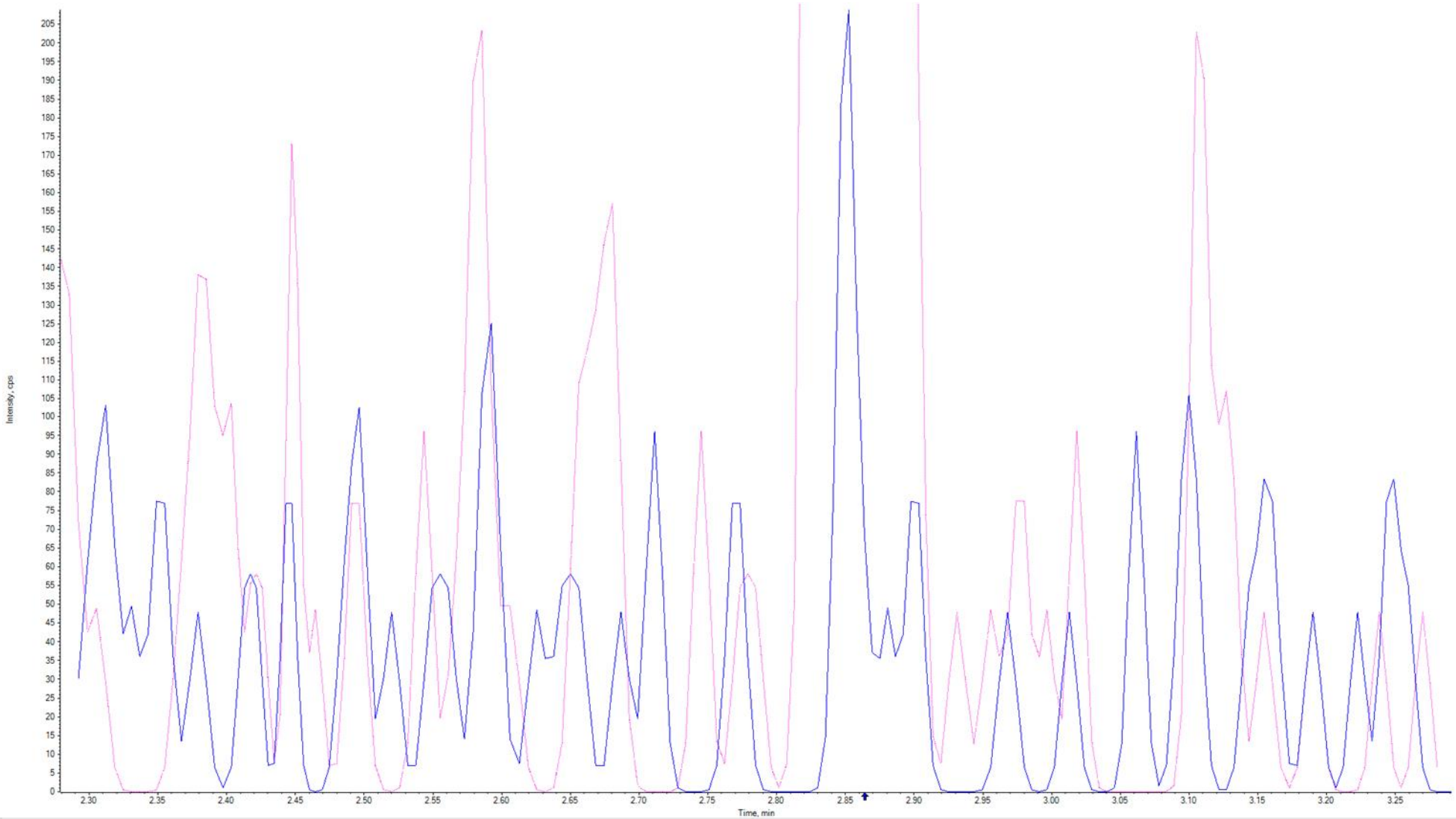
6:2FTS_2
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 12/20/2024 12:41:04 PM
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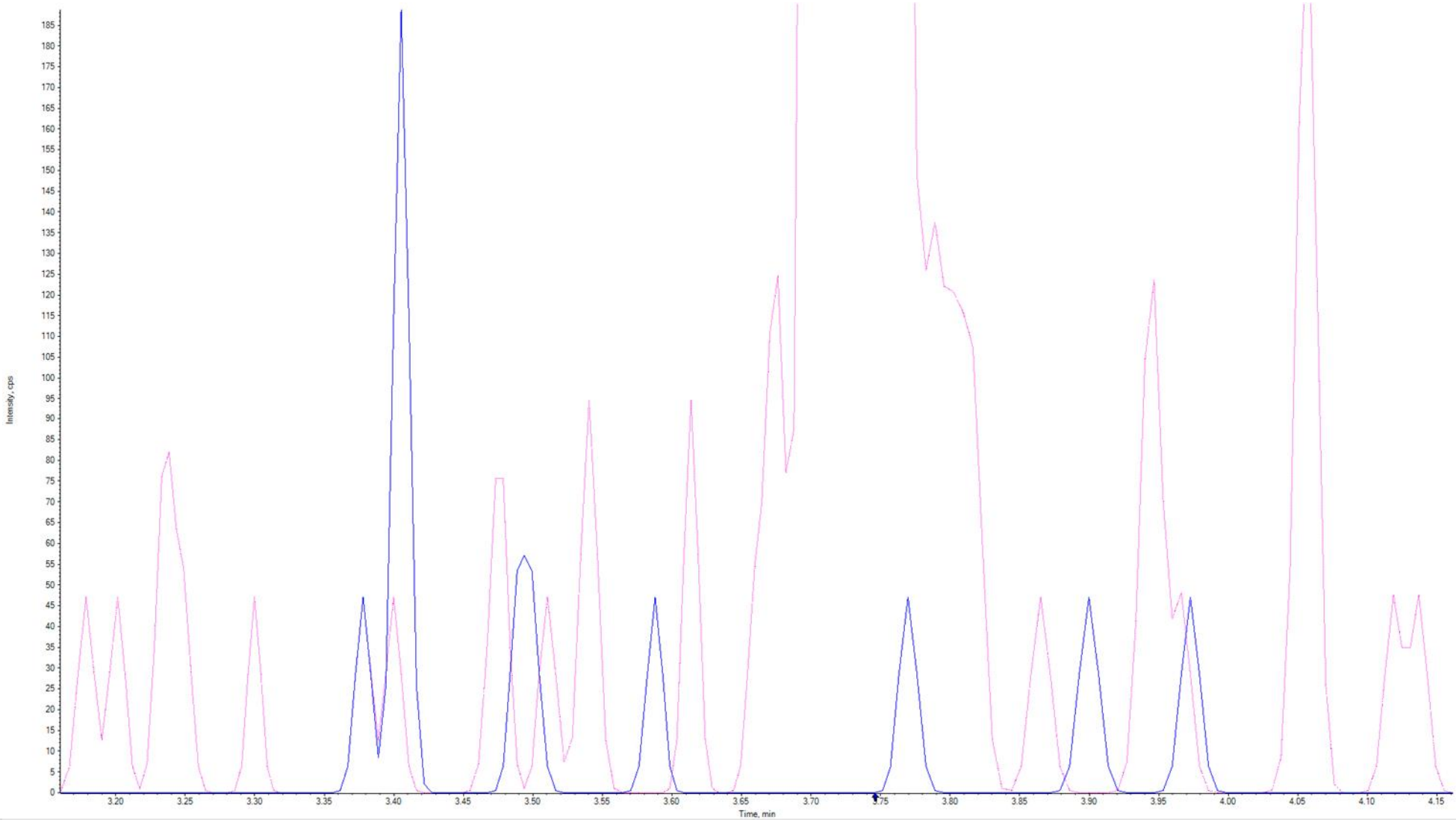
8:2FTS
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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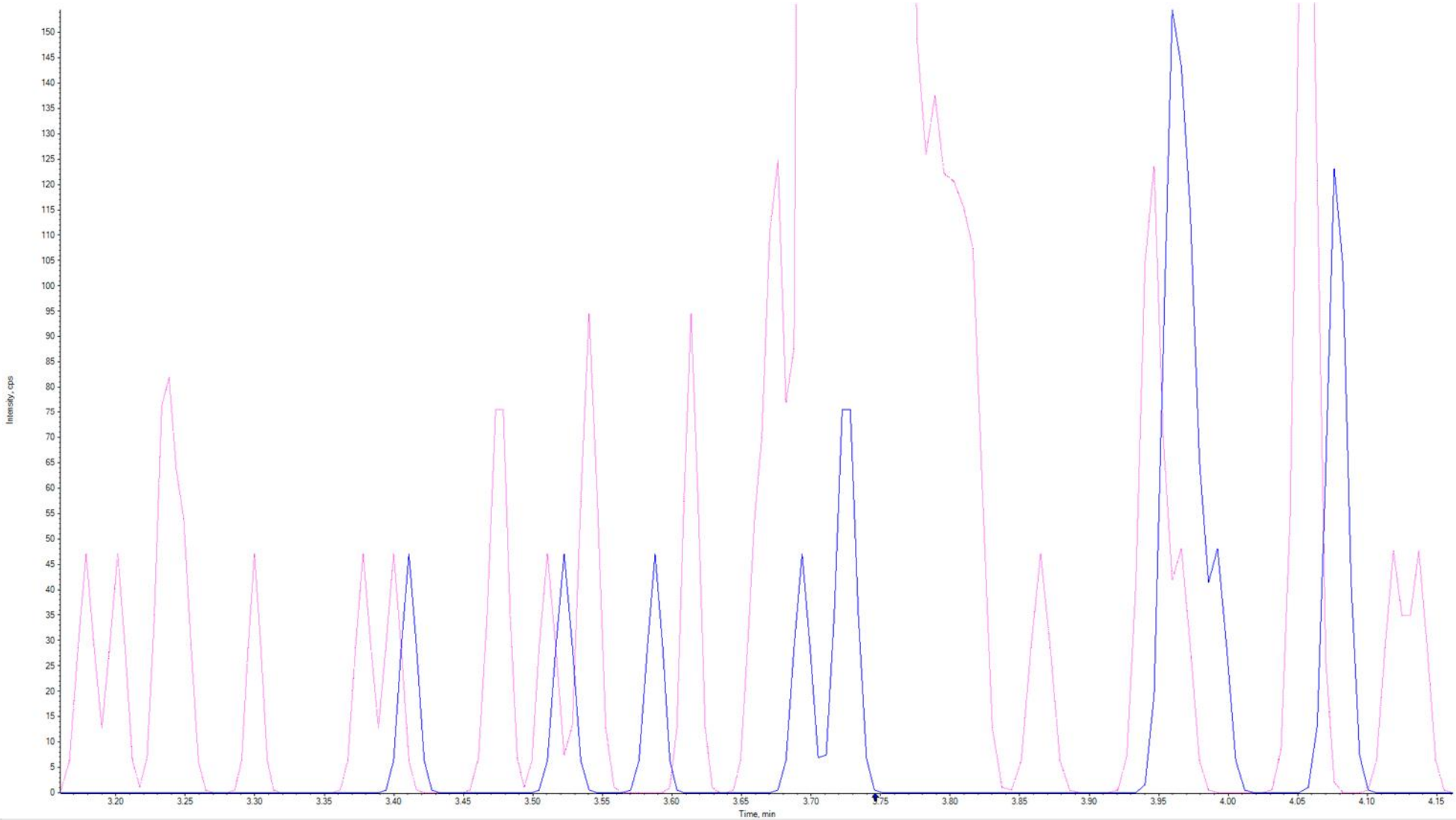
Generated: 12/20/2024 10:43:43 AM

8:2FTS_2
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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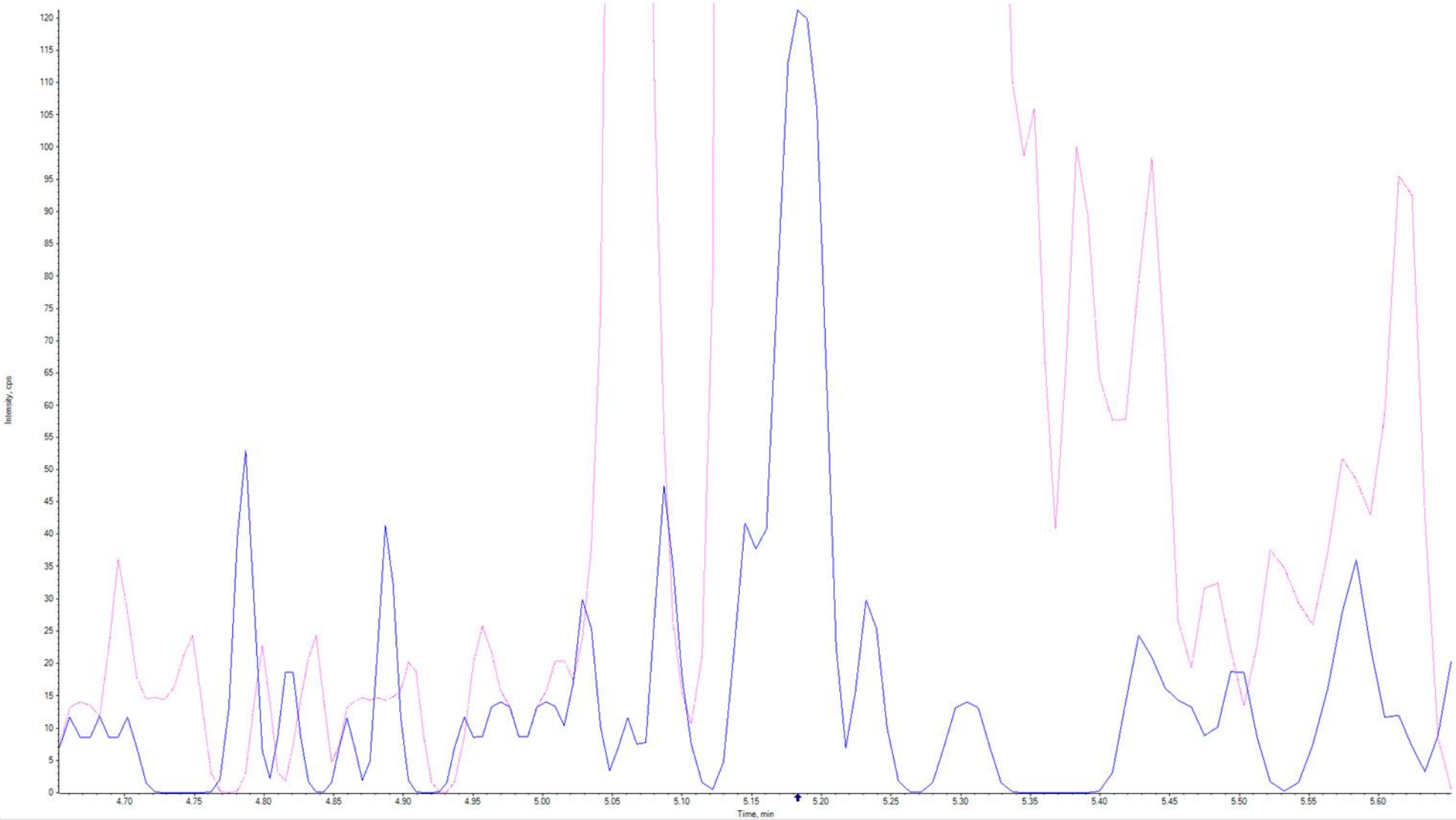
PFOSA
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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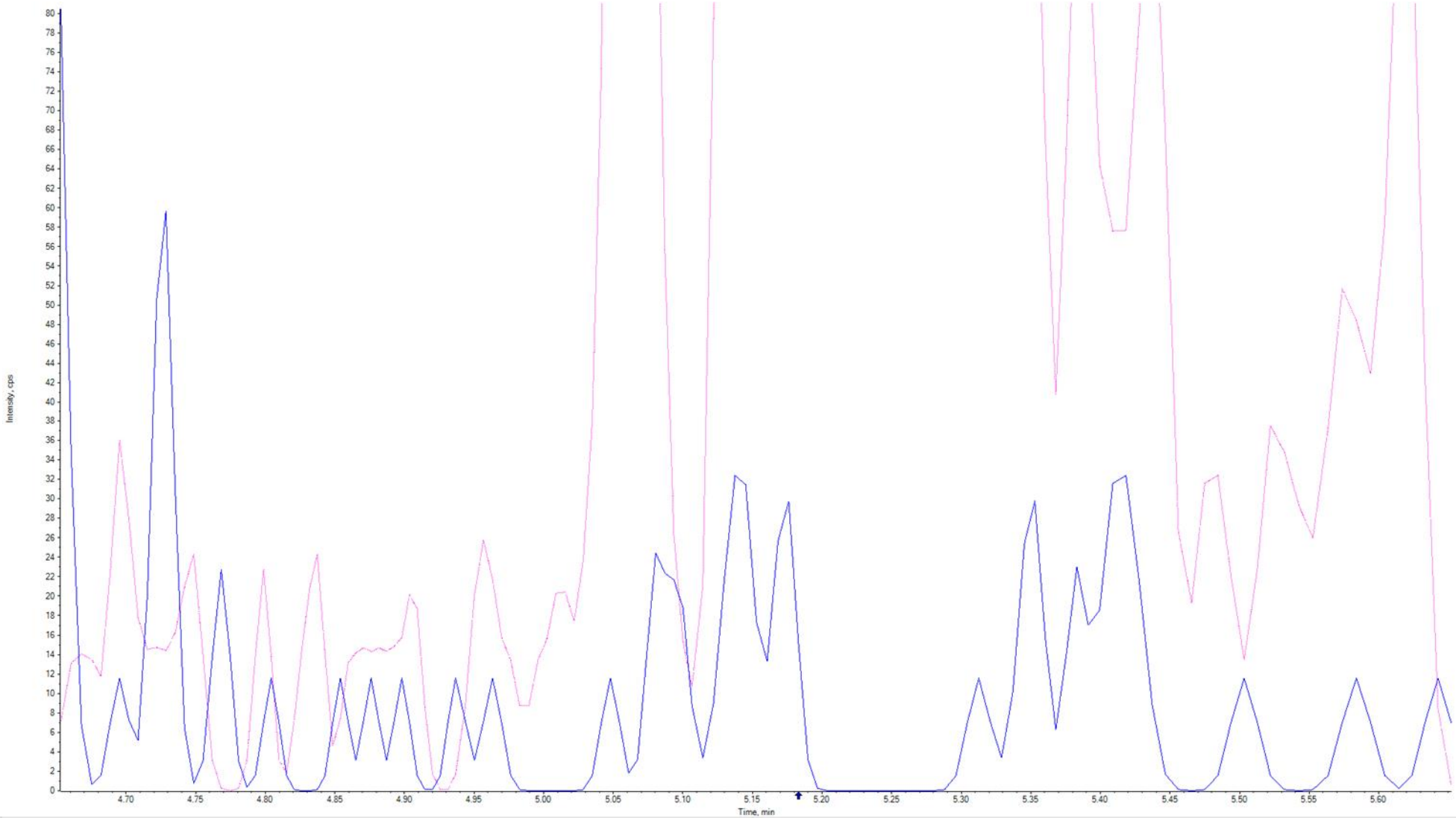
PFOSA_2
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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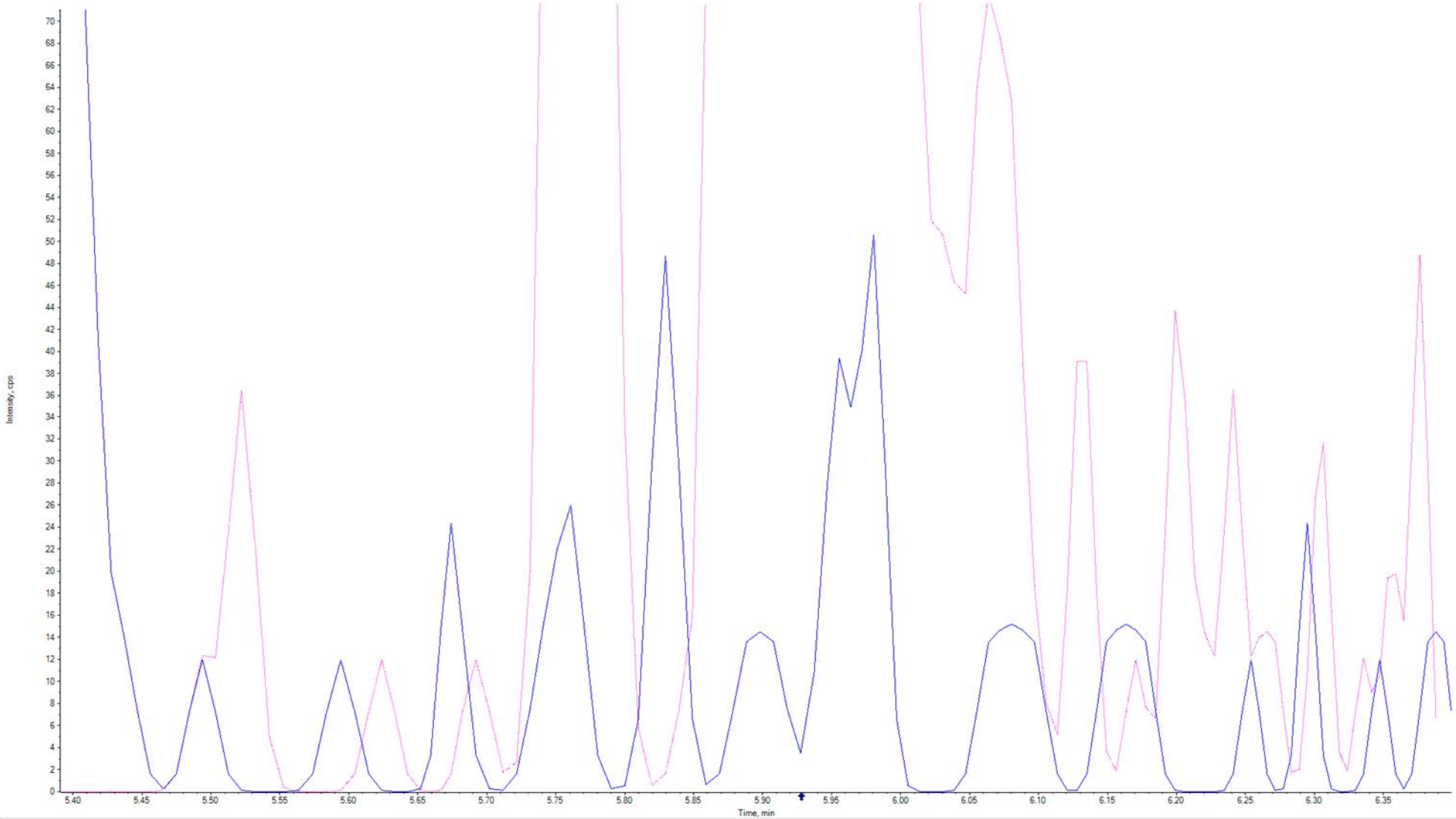
NMeFOSA
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



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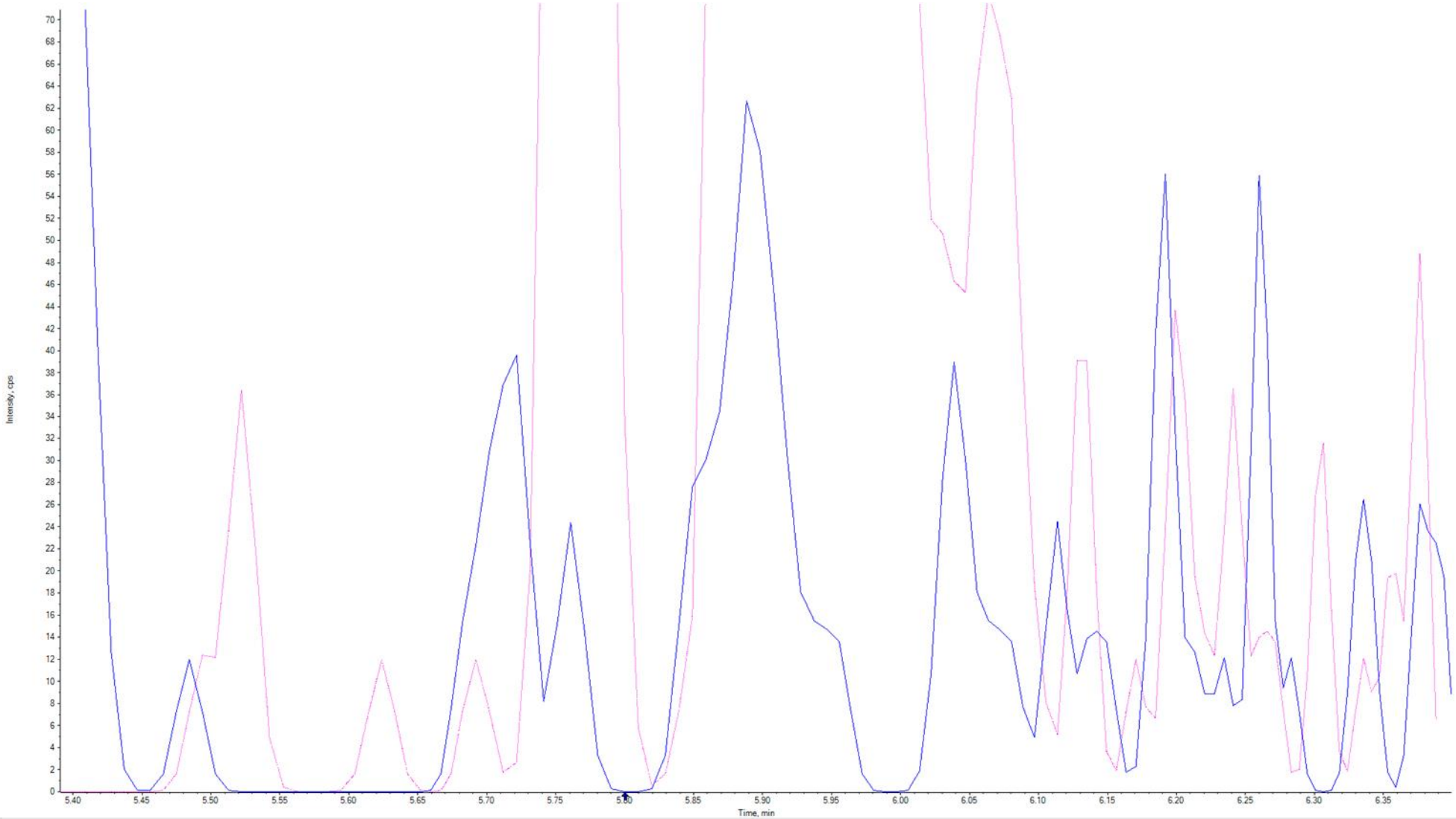
NMeFOSA_2
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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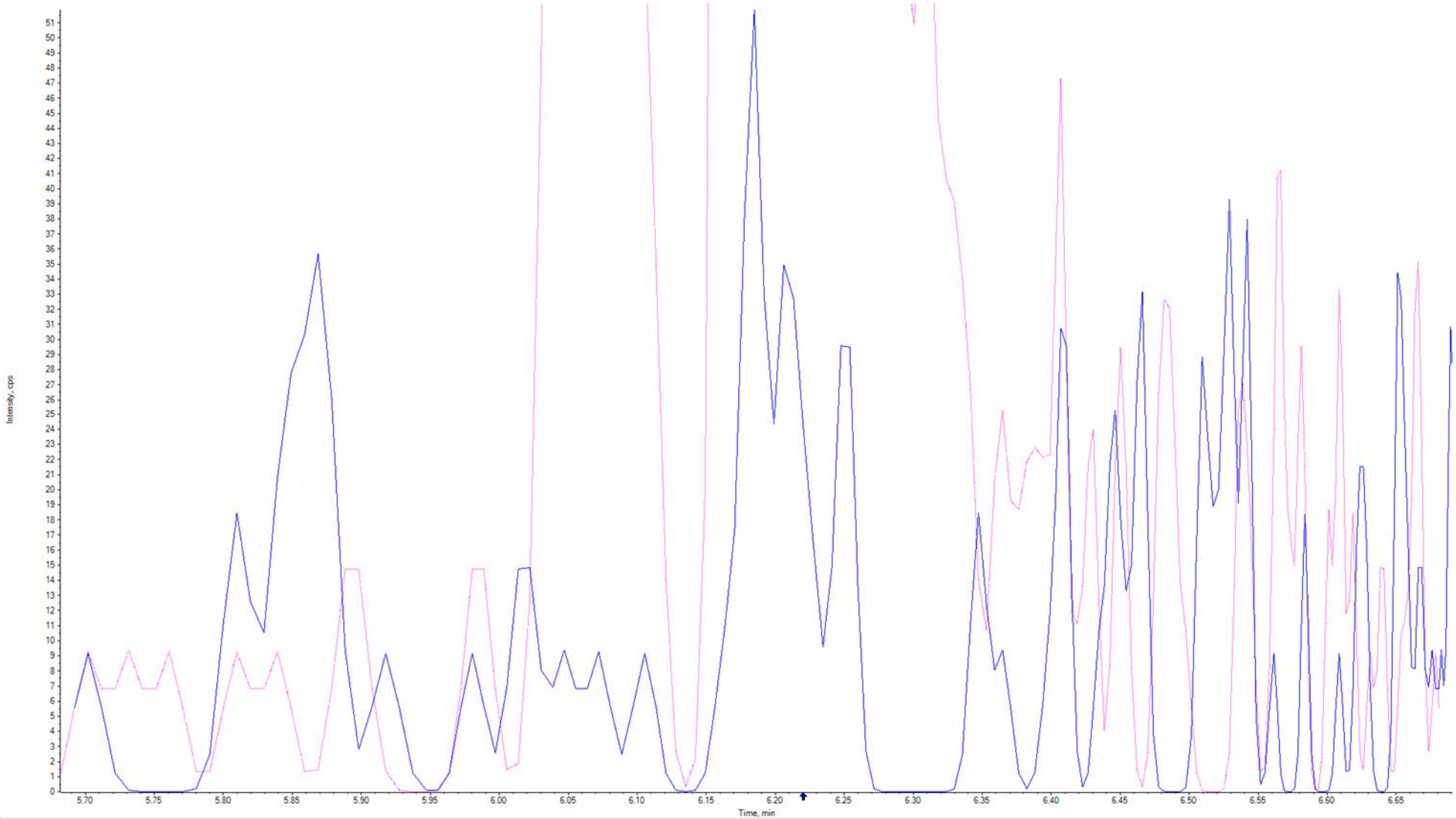
Generated: 12/20/2024 10:43:43 AM

NEtFOSA
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



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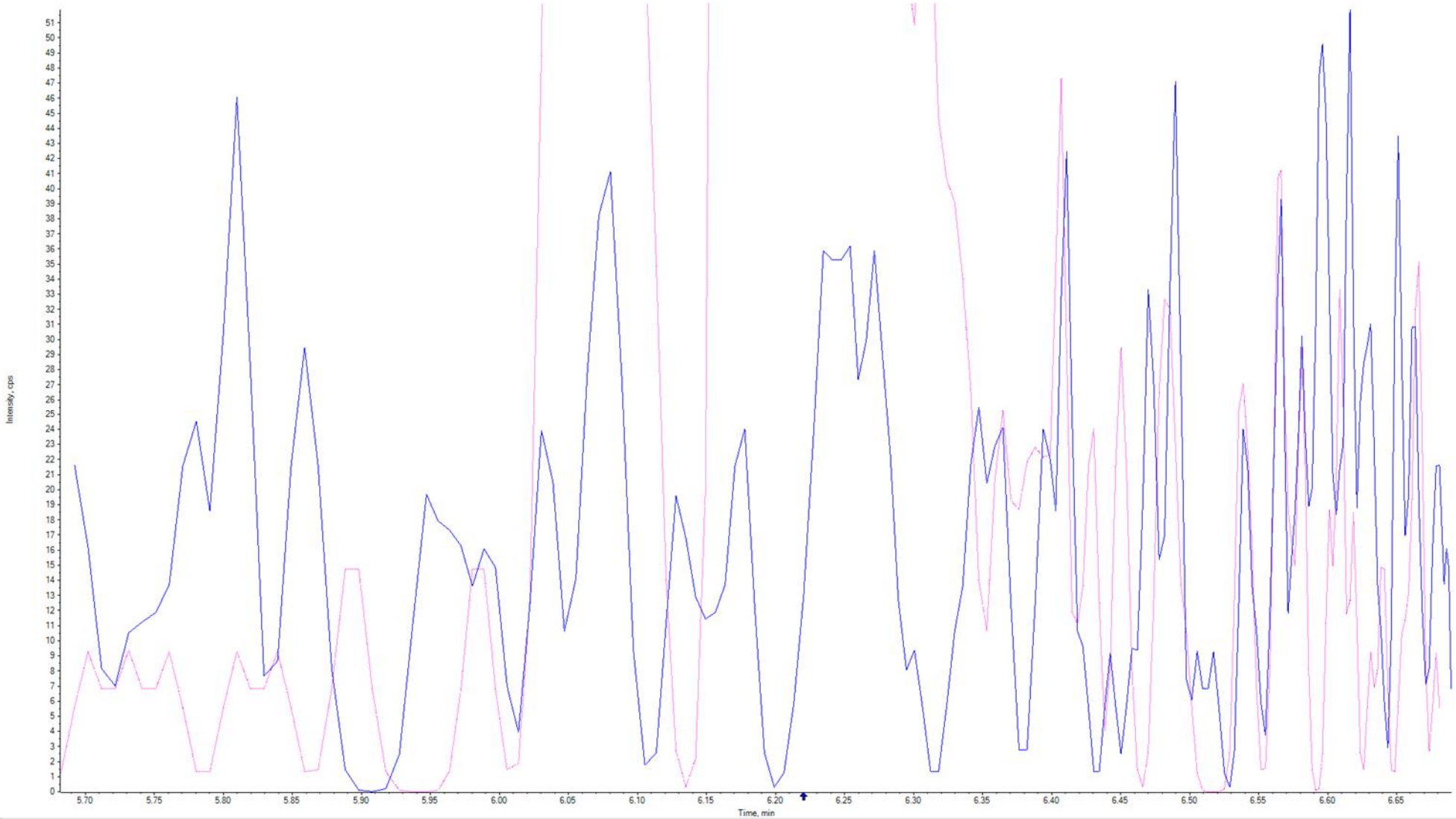
NEtFOSA_2
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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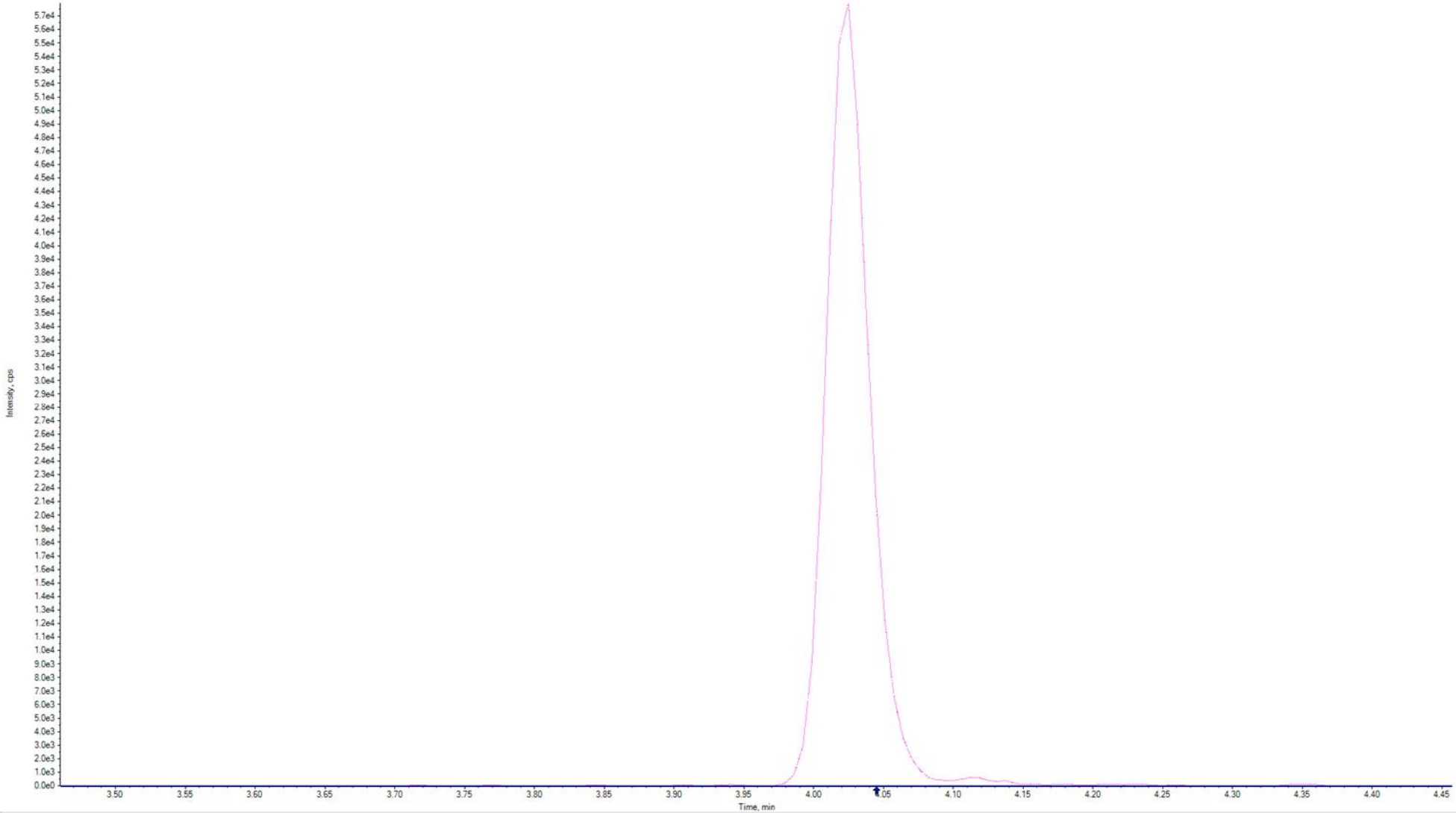
Generated: 12/20/2024 10:43:43 AM

NMeFOSAA
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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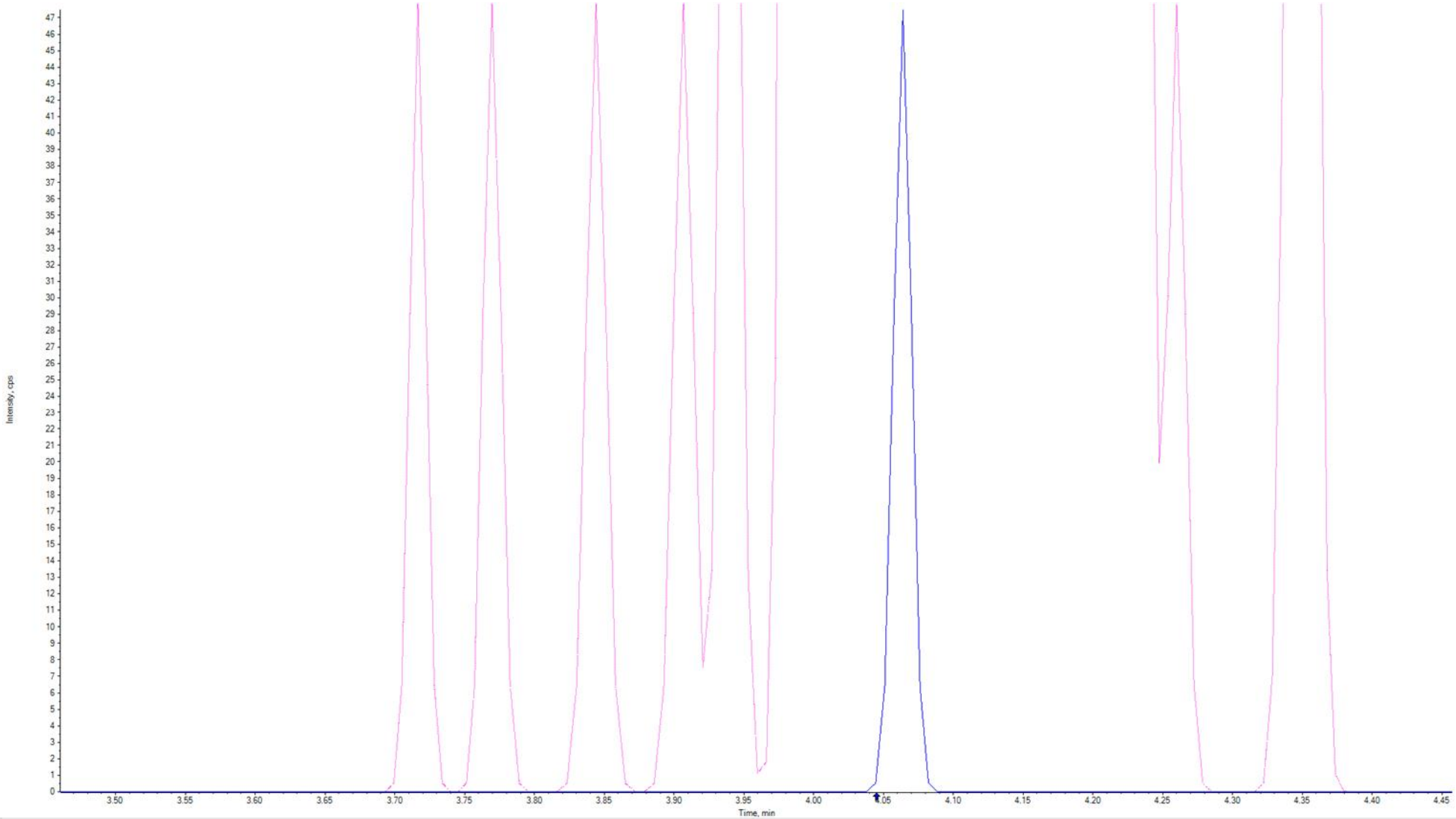
Last Altered: 12/20/2024 12:41:04 PM
Generated: 12/20/2024 10:43:43 AM

NMeFOSAA_2
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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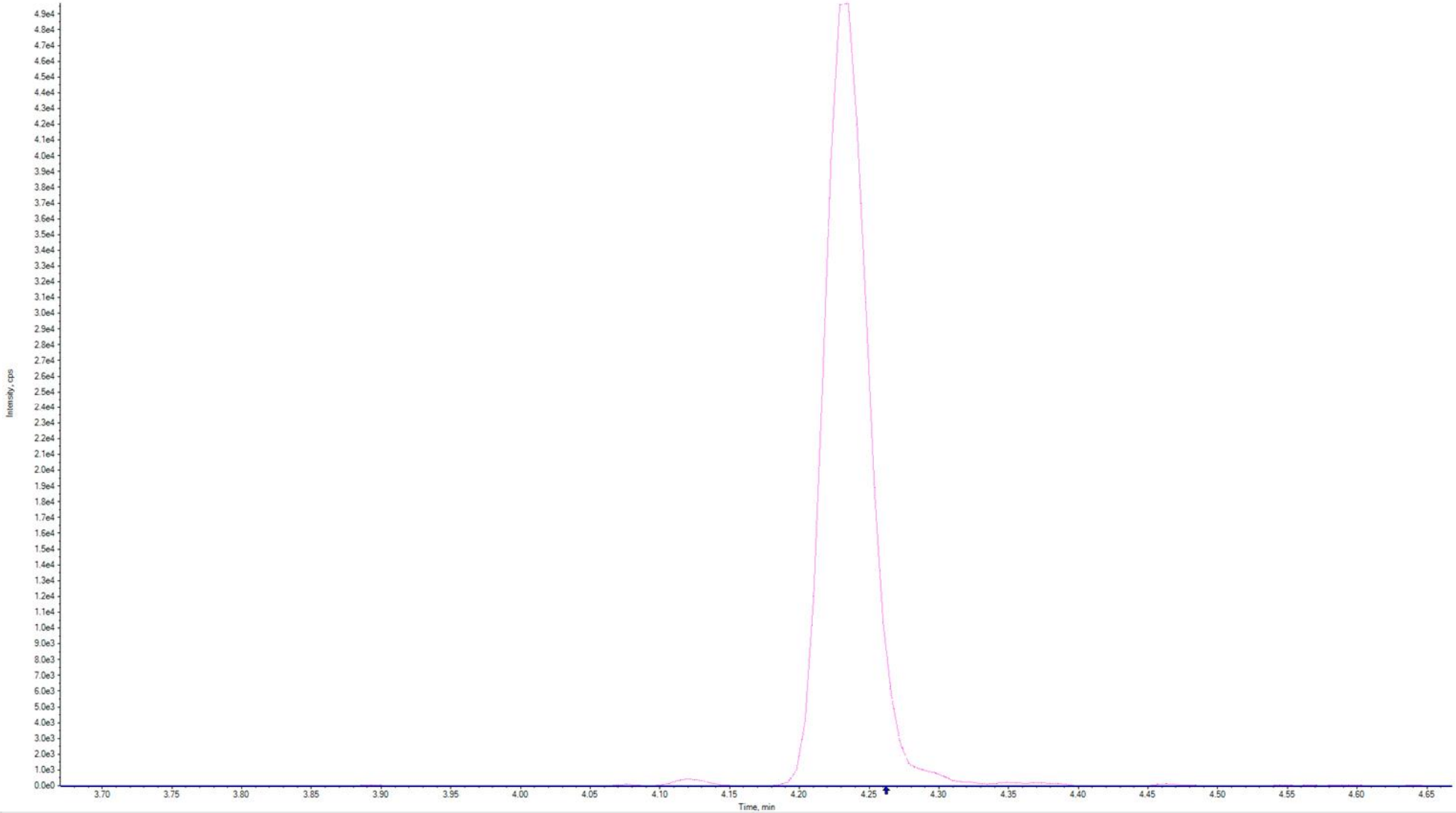
Last Altered: 12/20/2024 12:41:04 PM
Generated: 12/20/2024 10:43:43 AM

NEtFOSAA
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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Last Altered: 12/20/2024 12:41:04 PM
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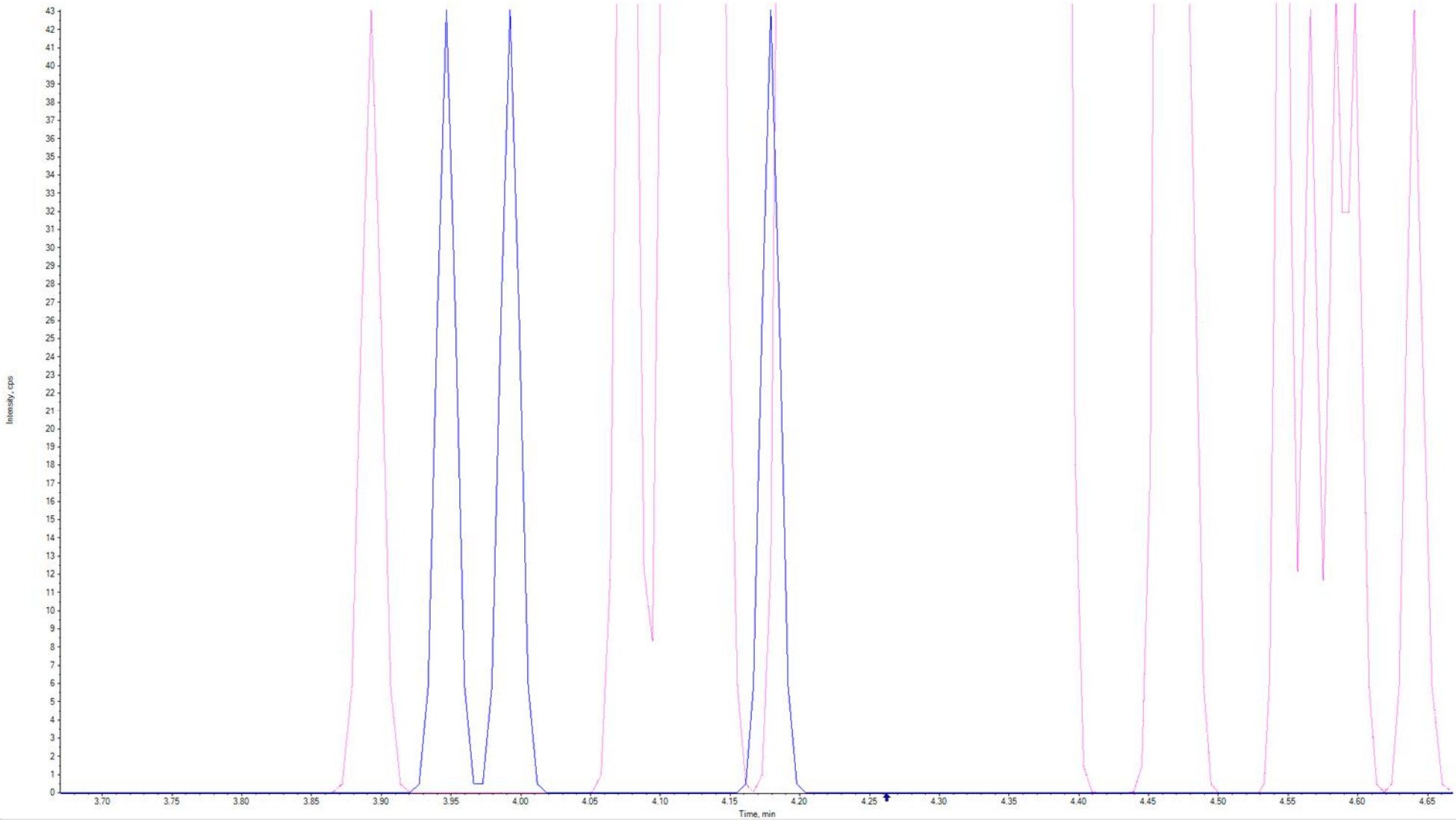
NEtFOSAA_2
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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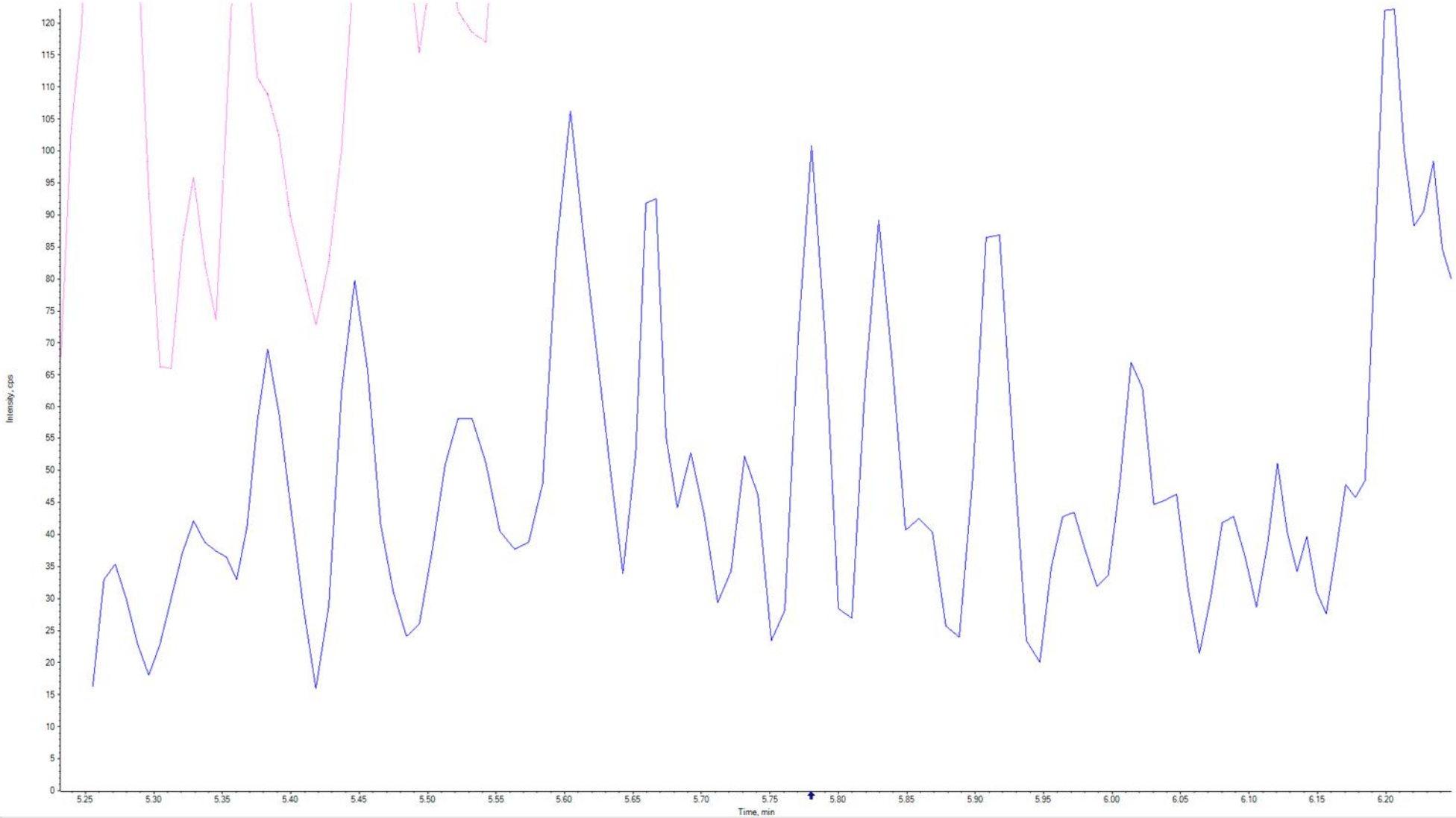
Last Altered: 12/20/2024 12:41:04 PM
Generated: 12/20/2024 10:43:43 AM

NMeFOSE
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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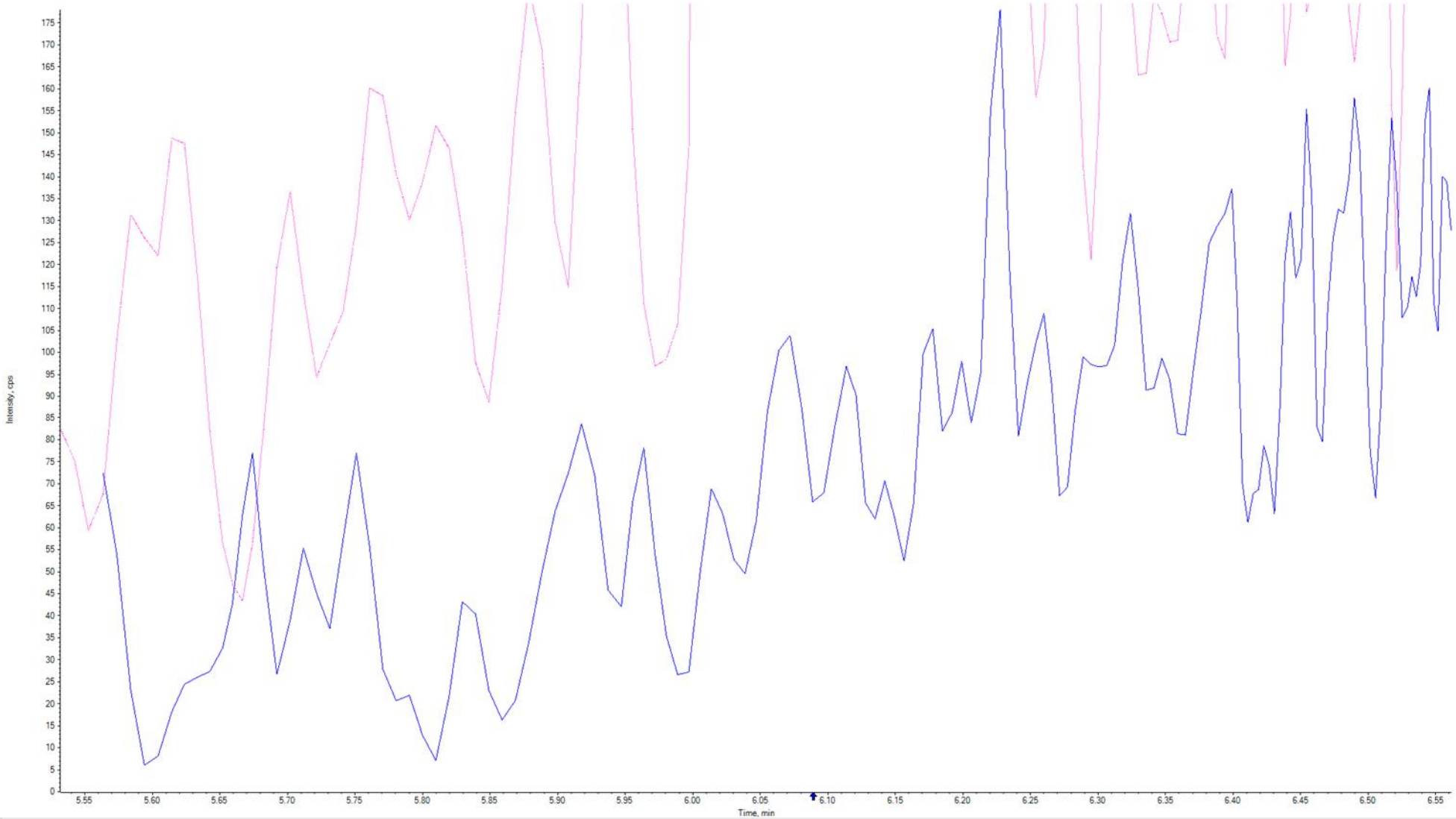
NEtFOSE
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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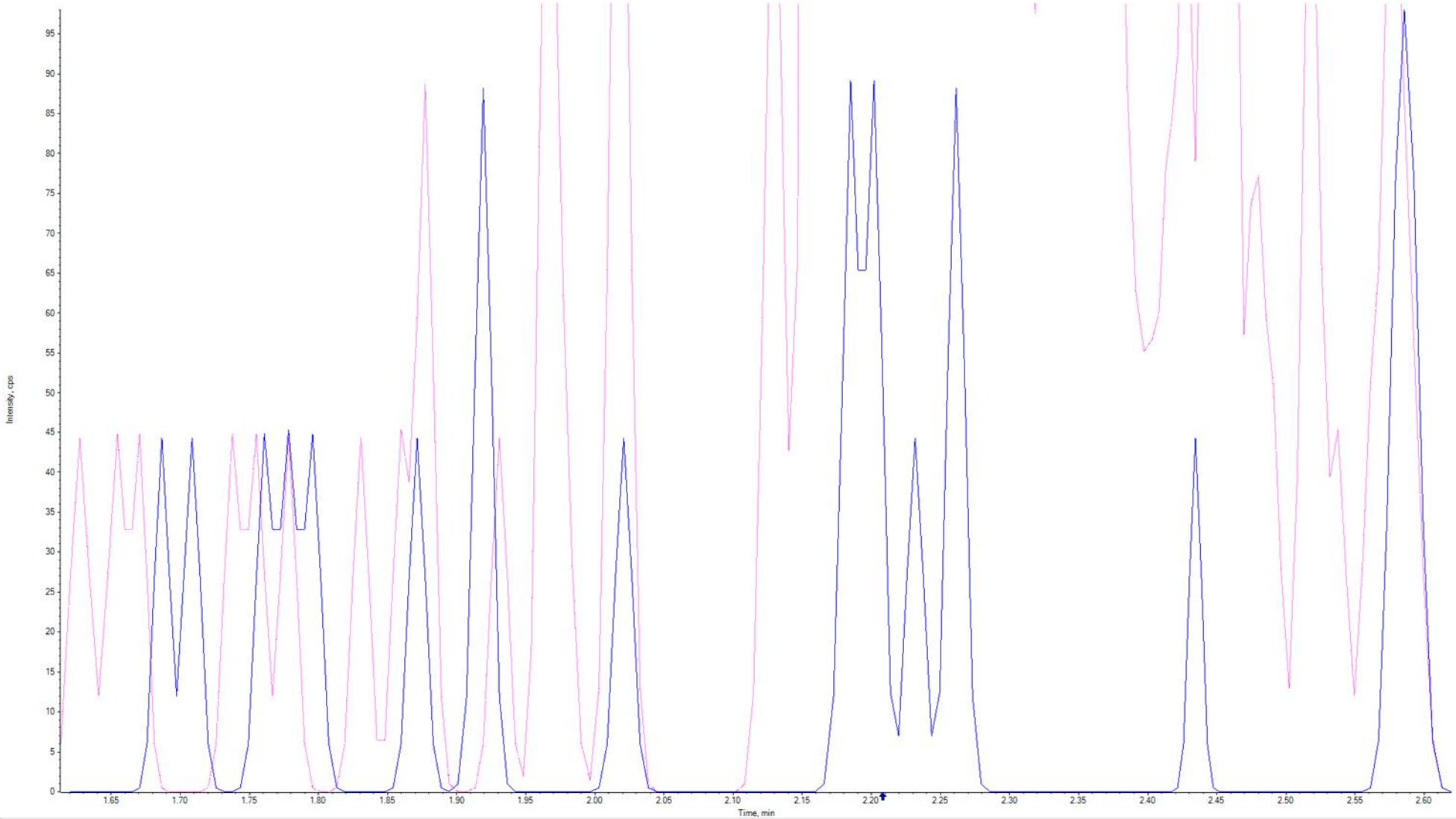
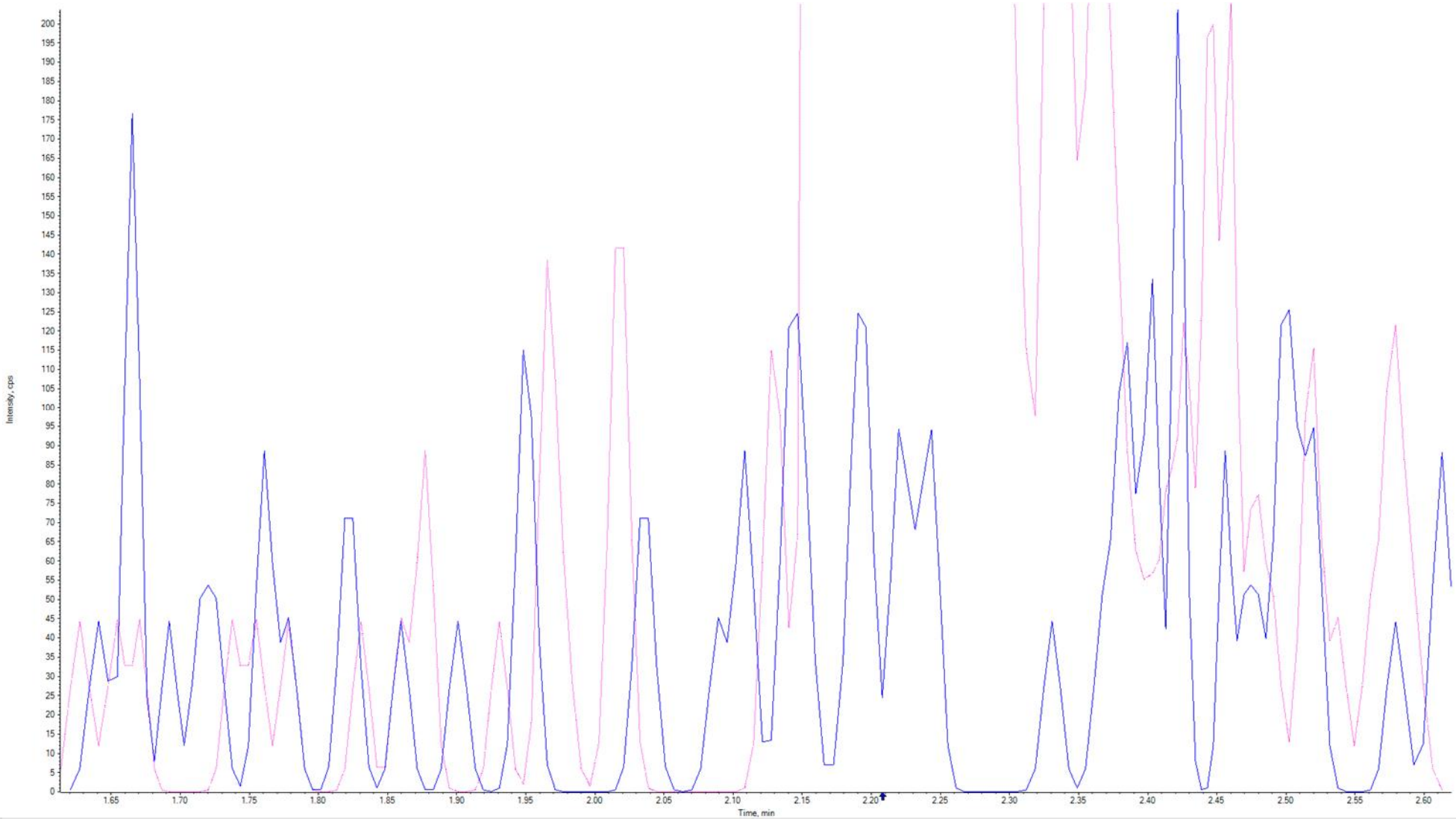
Last Altered: 12/20/2024 12:41:04 PM
Generated: 12/20/2024 10:43:43 AM

HFPO-DA
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_41.wiff2_8
Last Altered: 12/20/2024 12:41:04 PM
Generated: 12/20/2024 10:43:43 AM

HFPO-DA_2
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_41.wiff2_8
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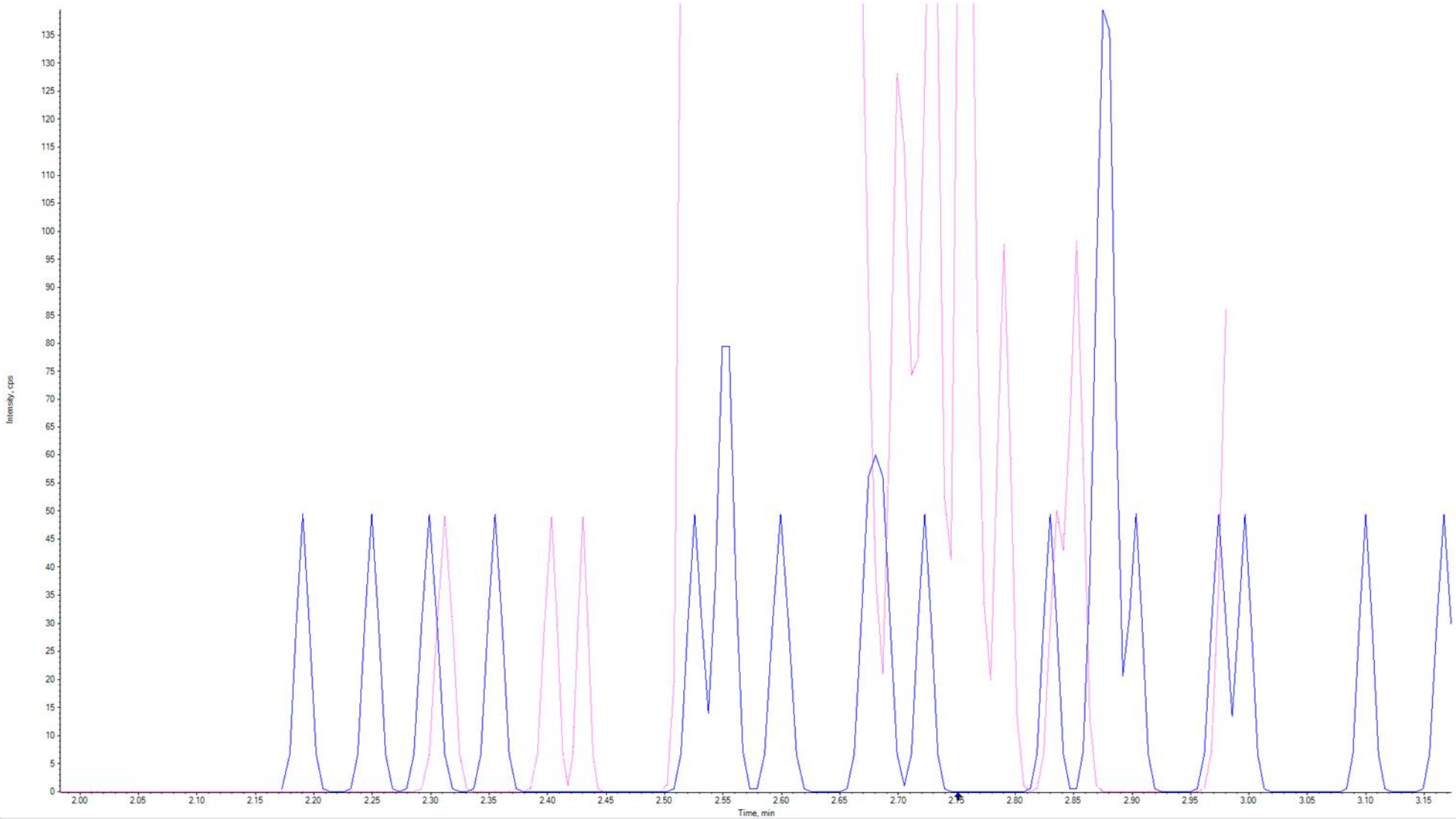
ADONA
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_41.wiff2_8
Last Altered: 12/20/2024 12:41:04 PM
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ADONA_2
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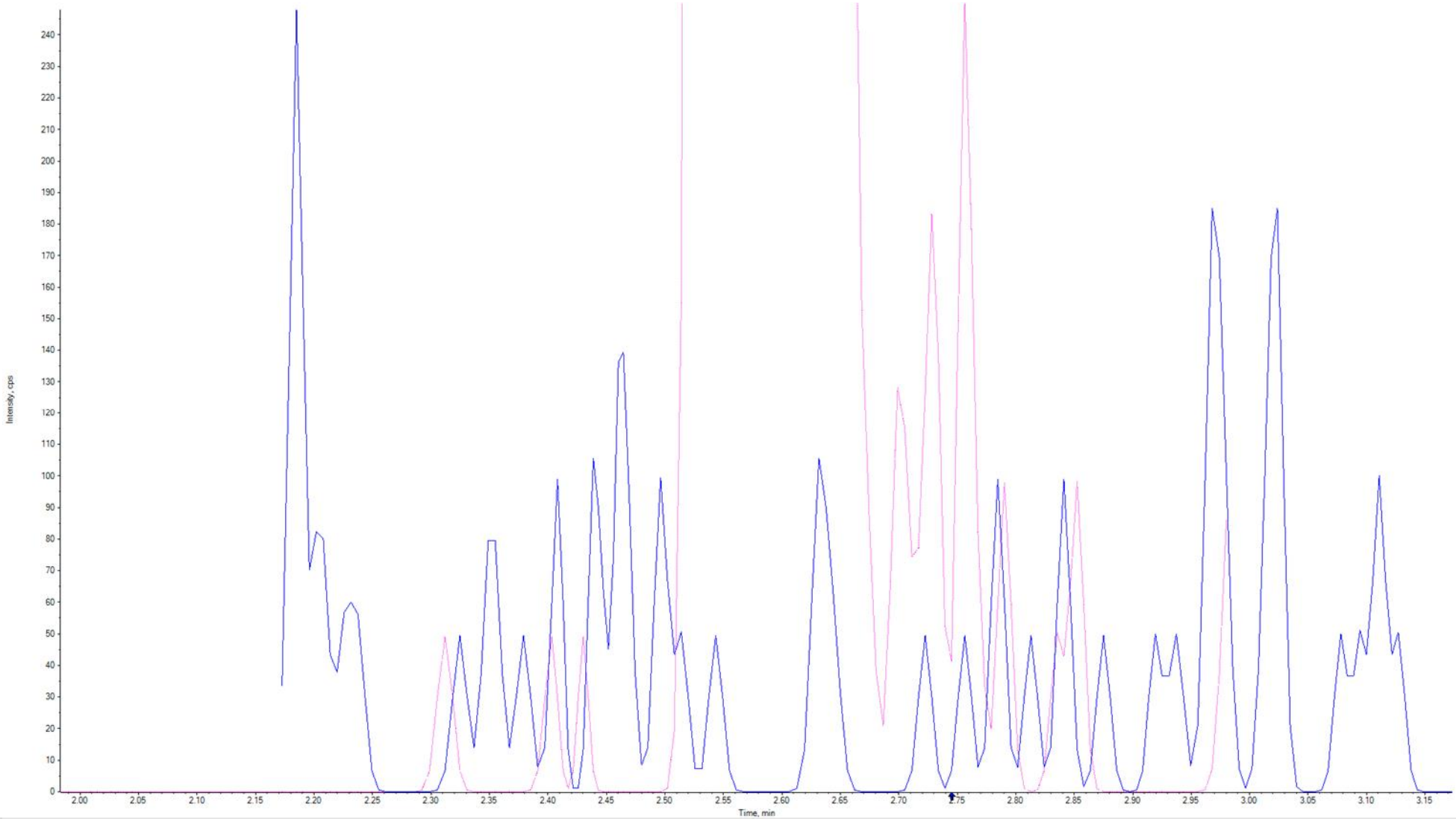

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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9Cl-PF3ONS
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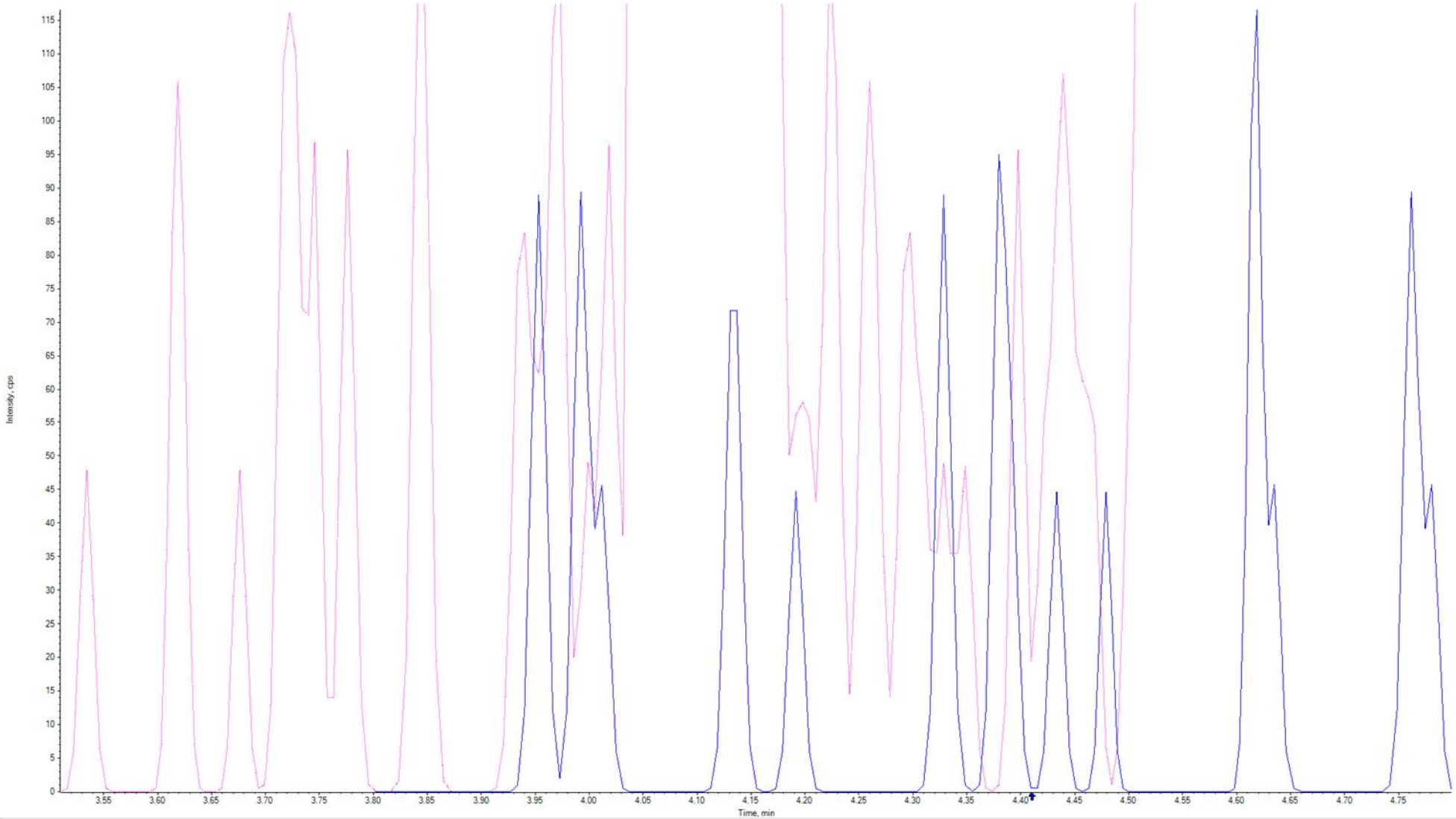

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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9Cl-PF3ONS_2
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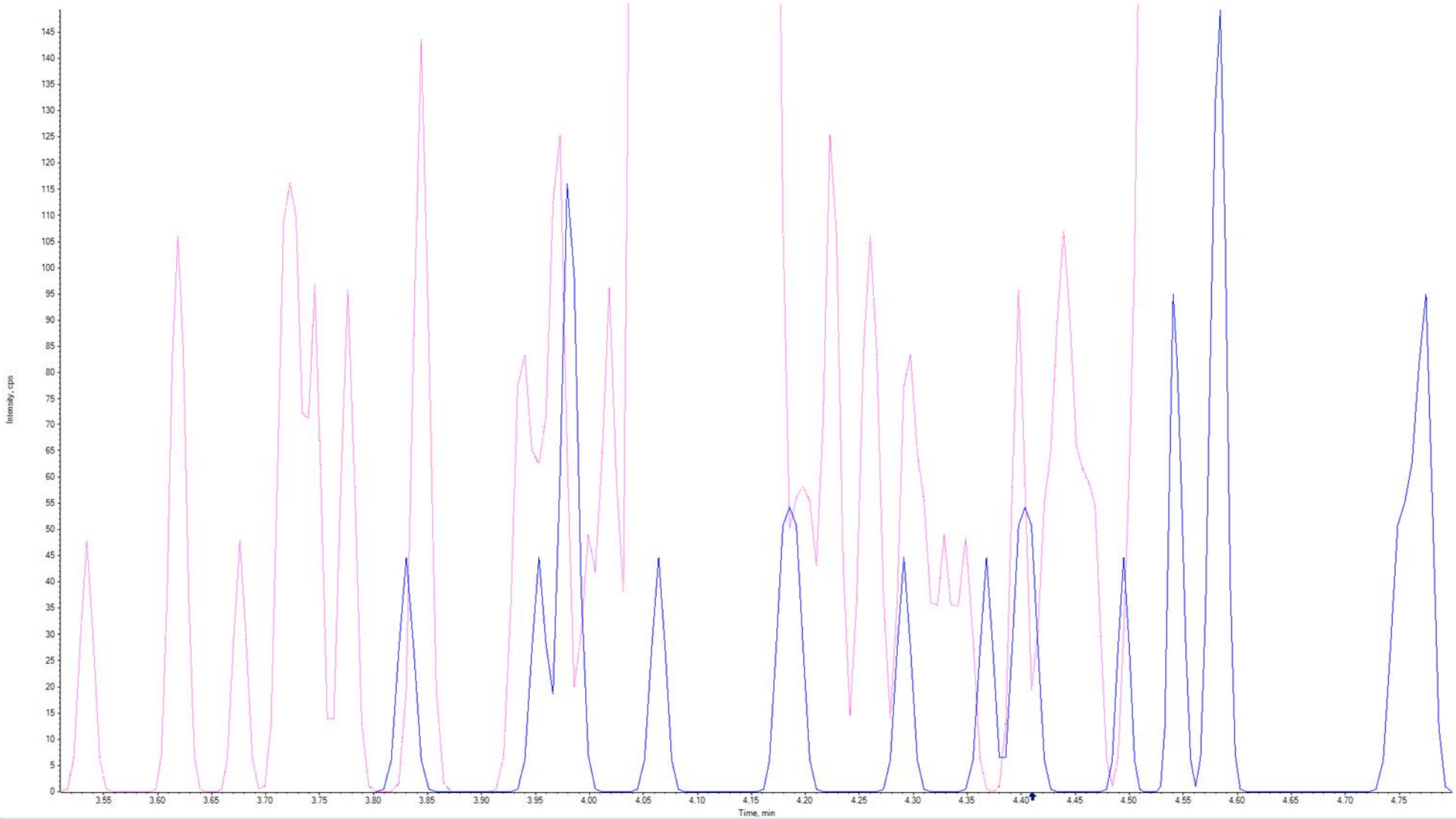

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Alpha Analytical LLC
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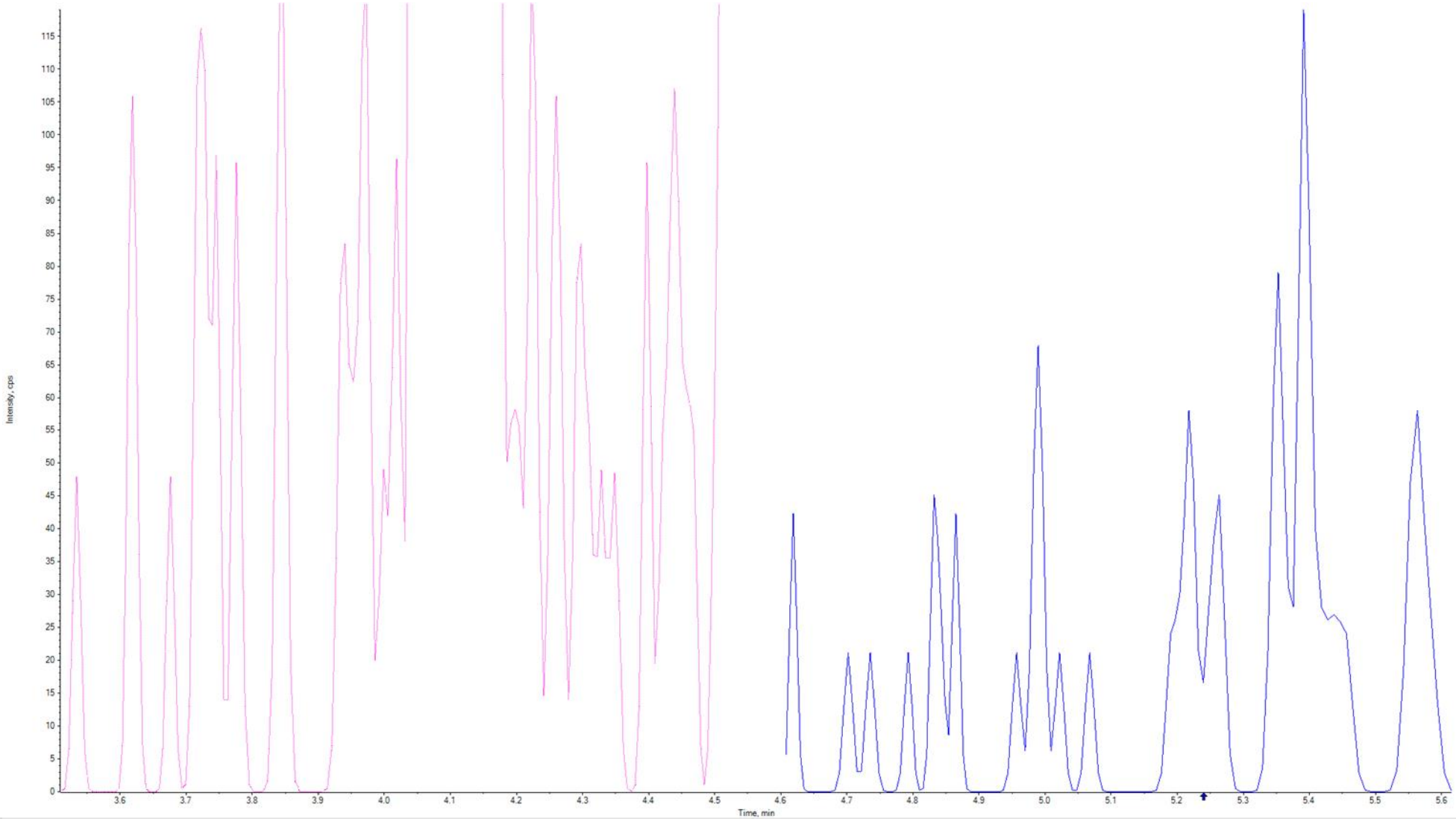
11Cl-PF3OUdS
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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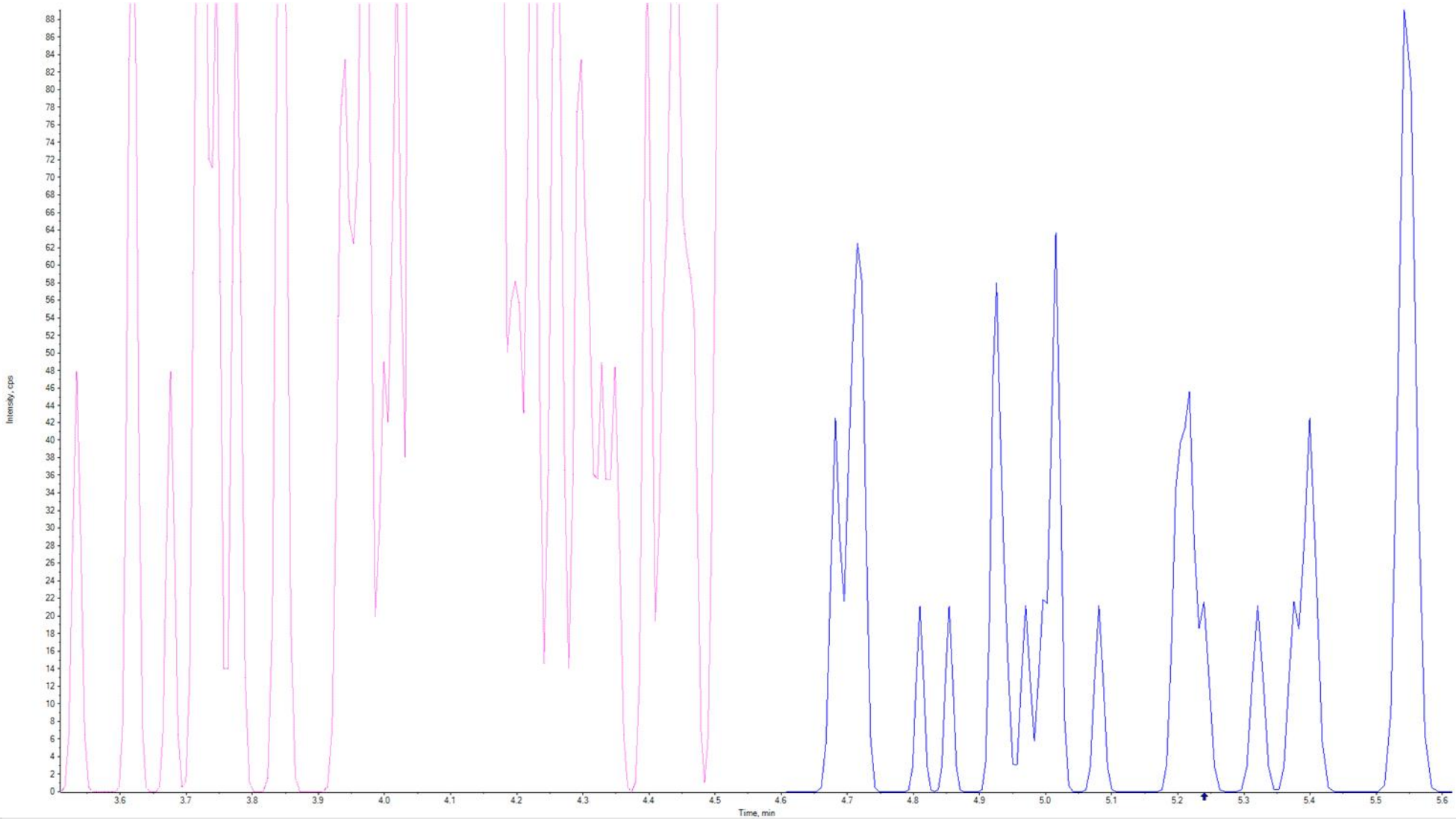
11Cl-PF3OUdS_2
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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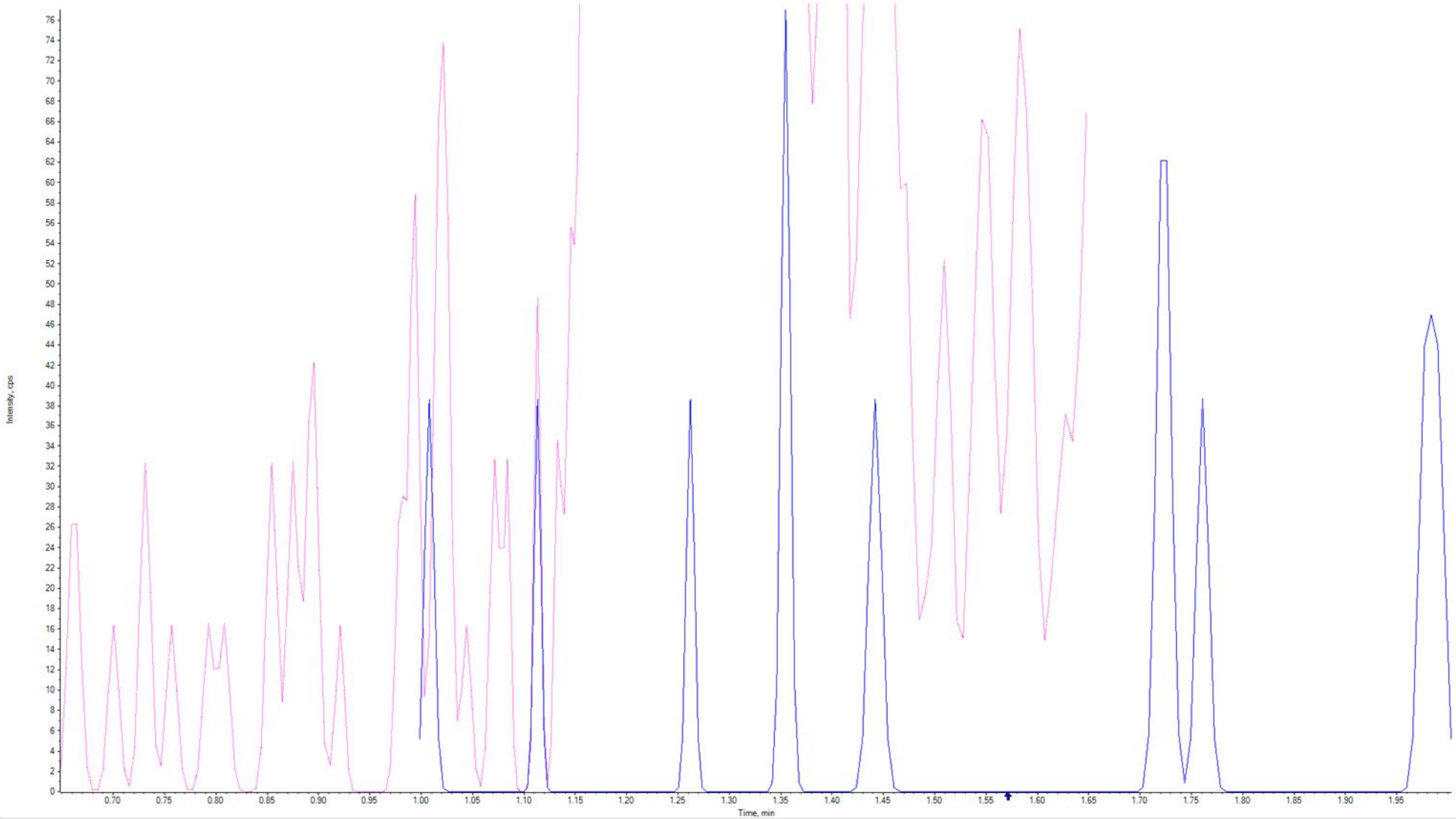
Generated: 12/20/2024 10:43:43 AM

3:3FTCA
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Generated: 12/20/2024 10:43:43 AM

3:3FTCA_2
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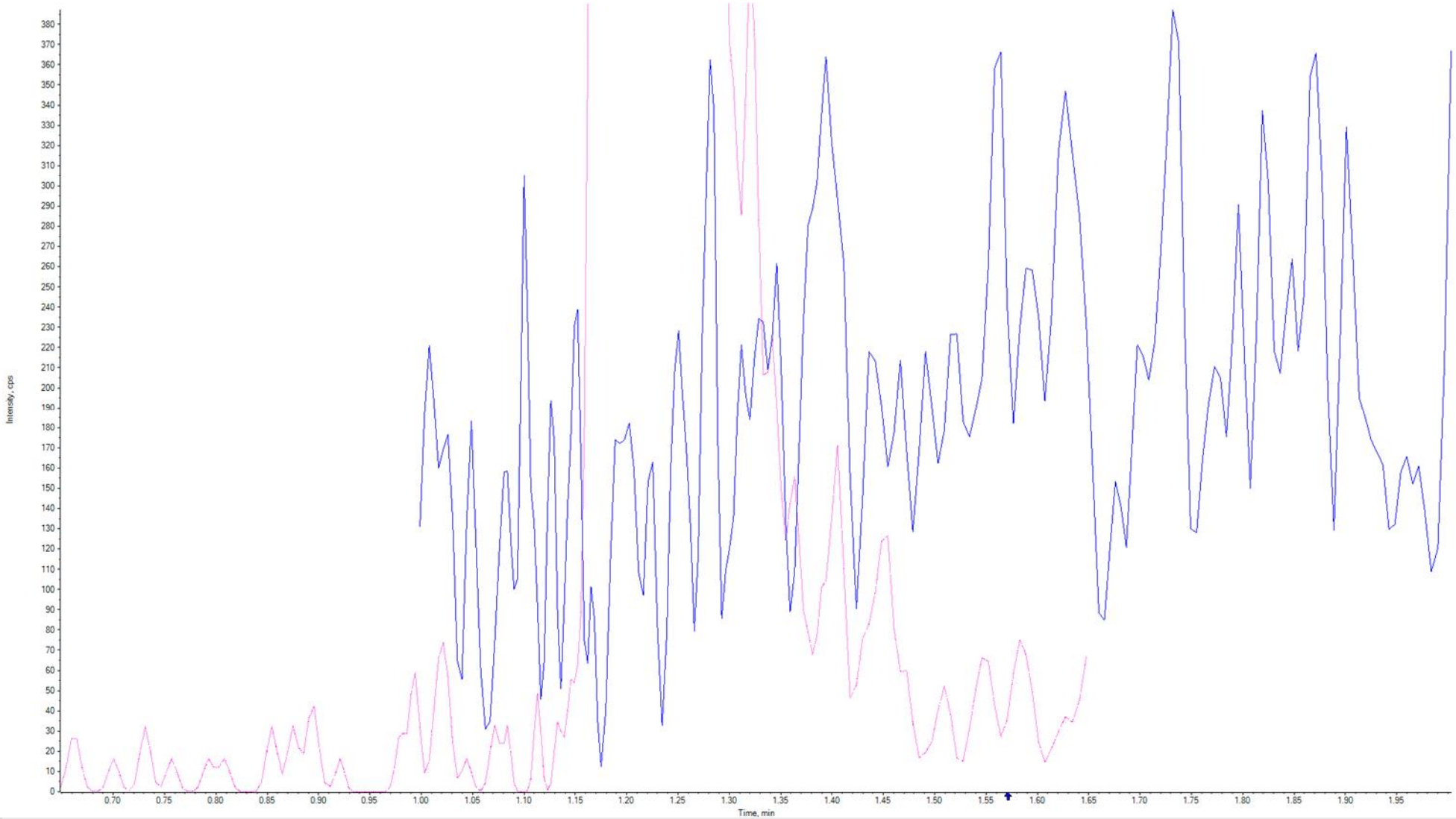

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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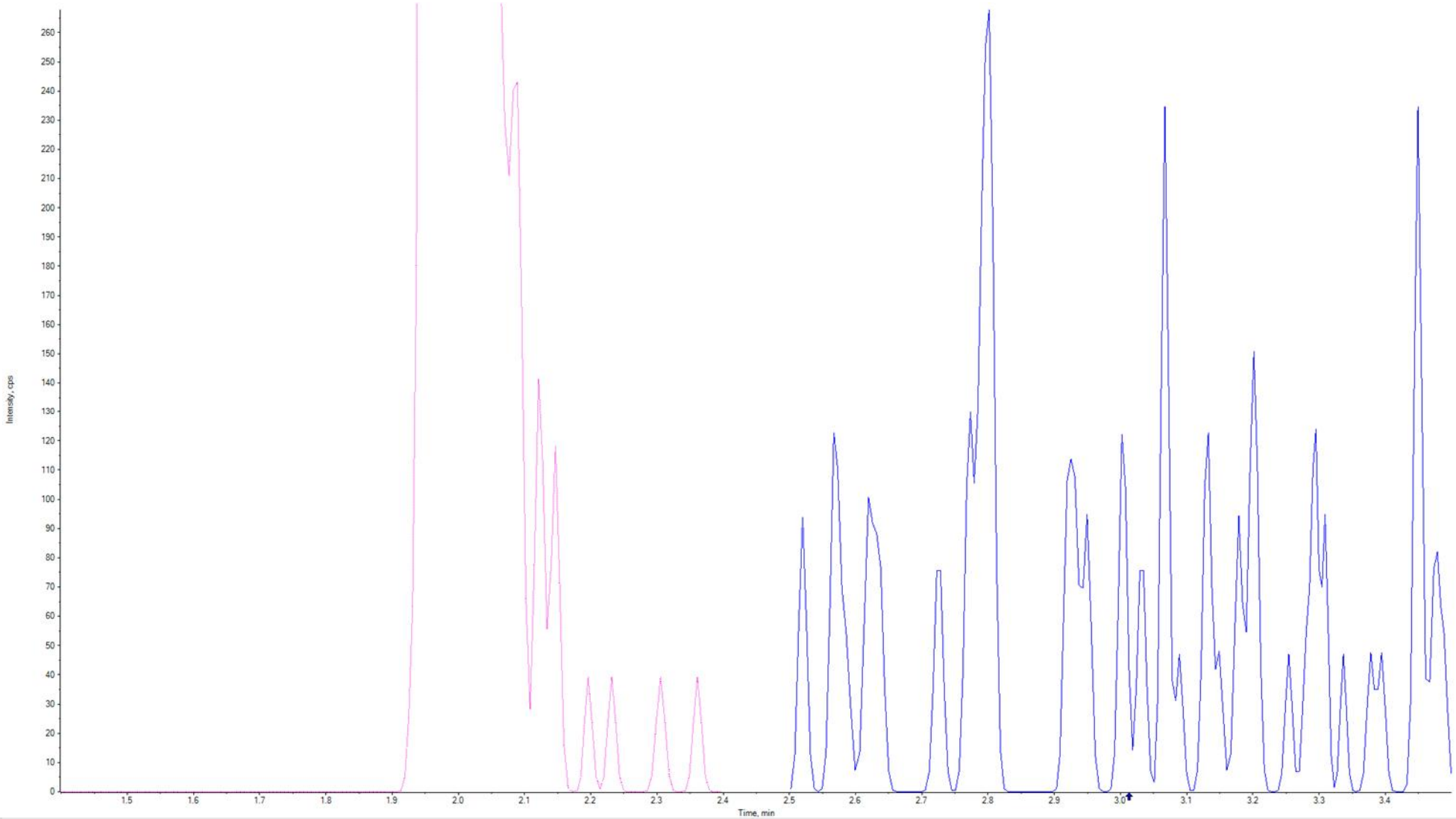
Last Altered: 12/20/2024 12:41:04 PM
Generated: 12/20/2024 10:43:43 AM

5:3FTCA
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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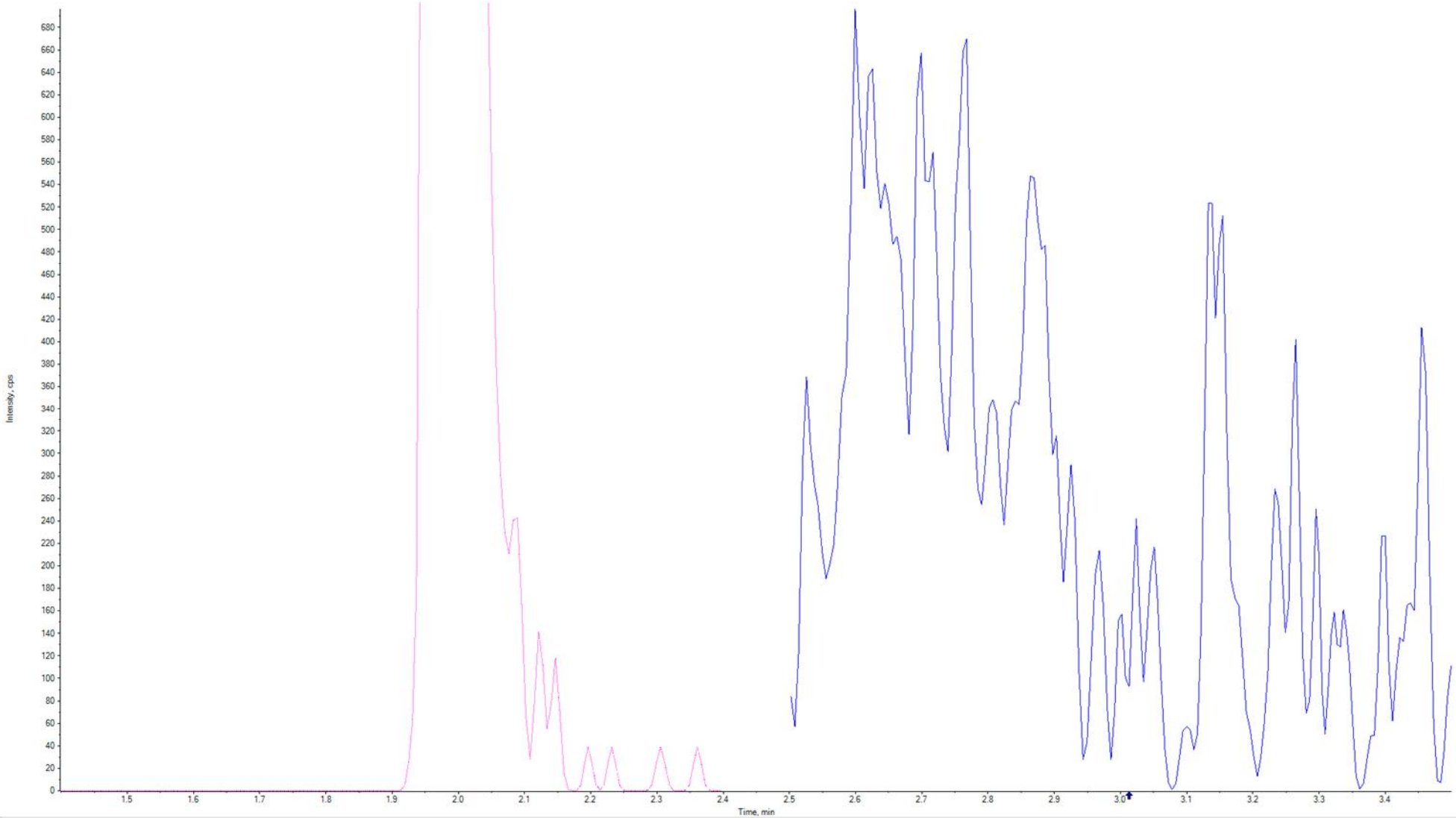
Generated: 12/20/2024 10:43:43 AM

5:3FTCA_2
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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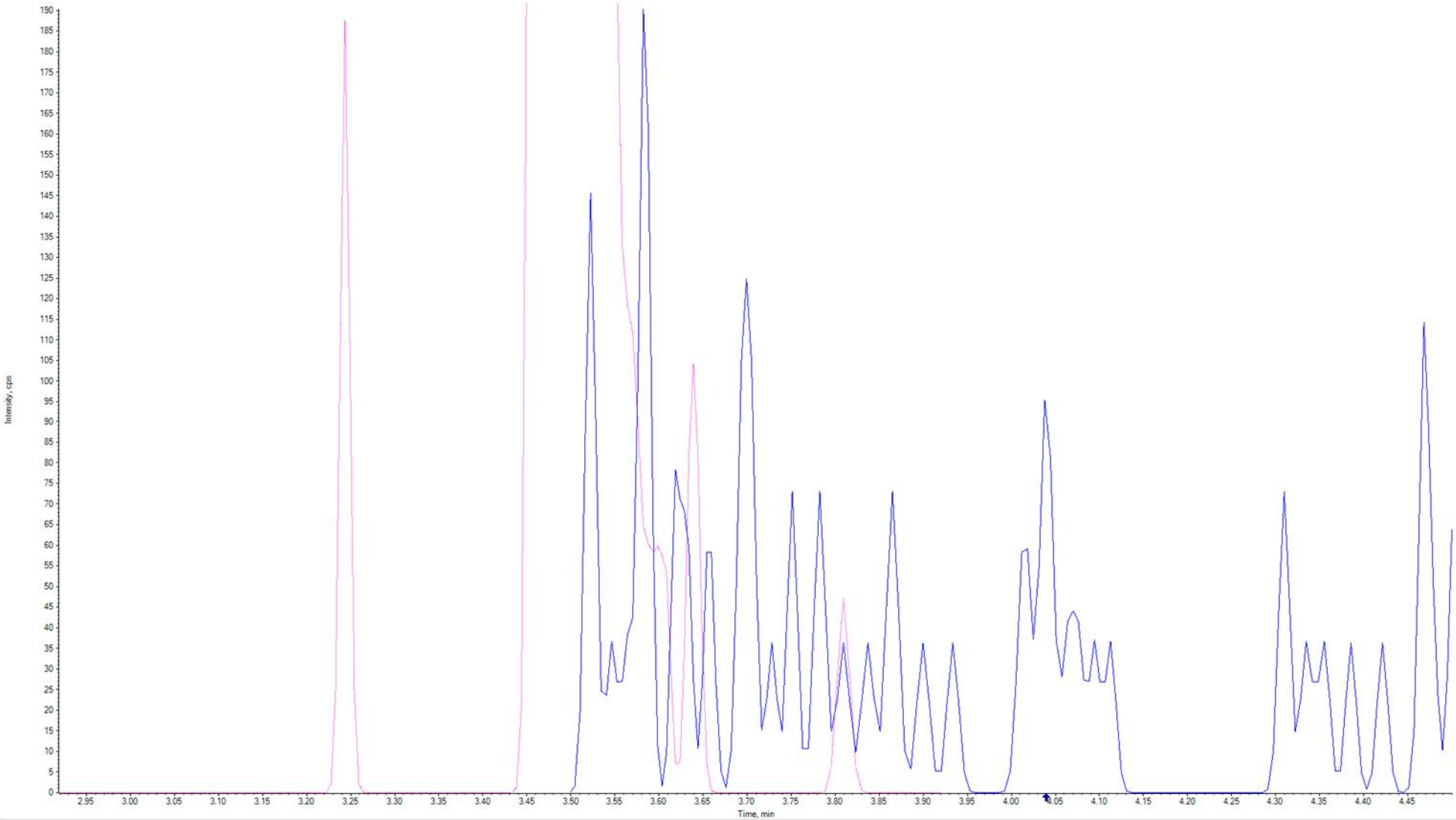
7:3FTCA
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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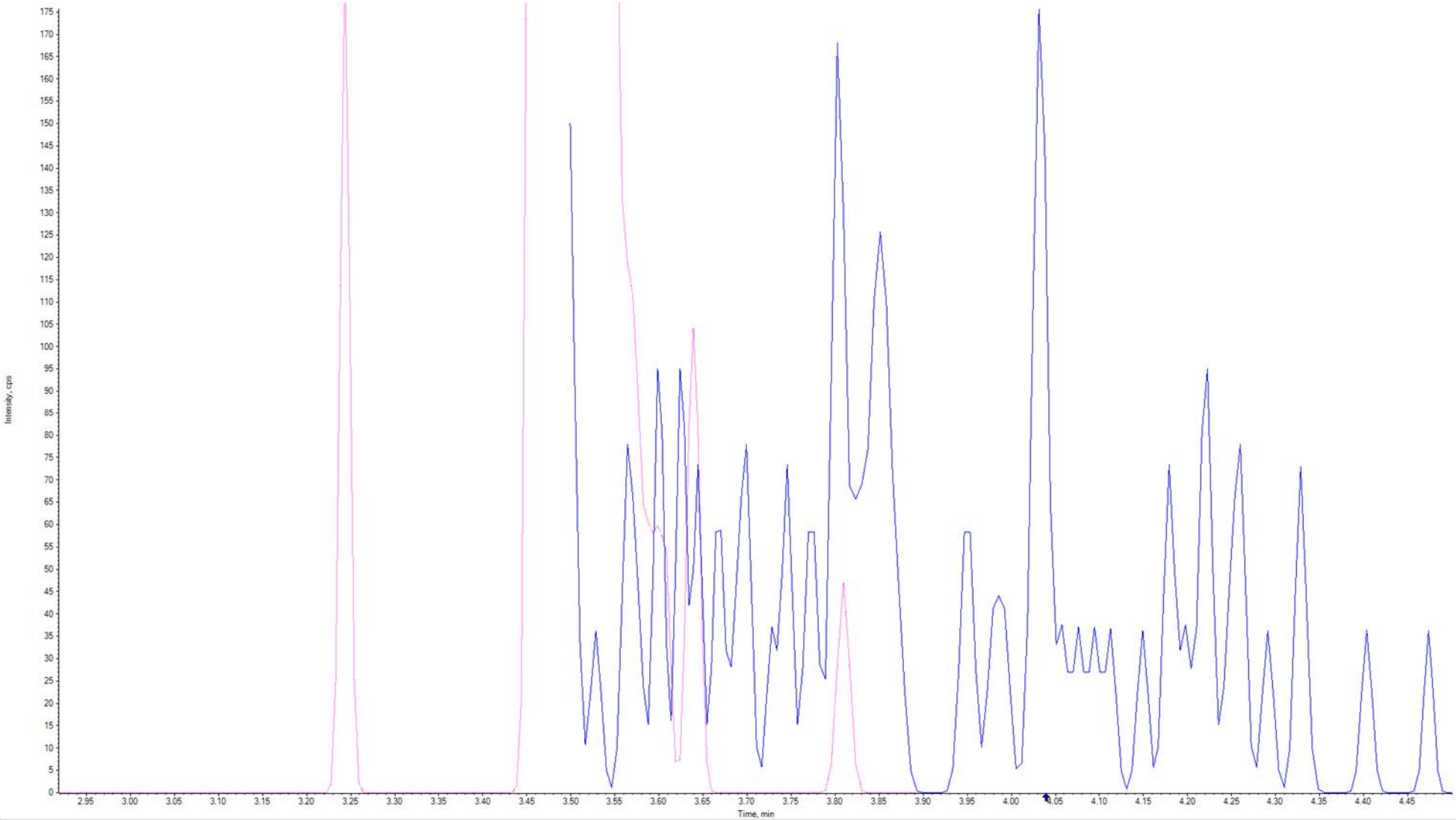
7:3FTCA_2
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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Last Altered: 12/20/2024 12:41:04 PM
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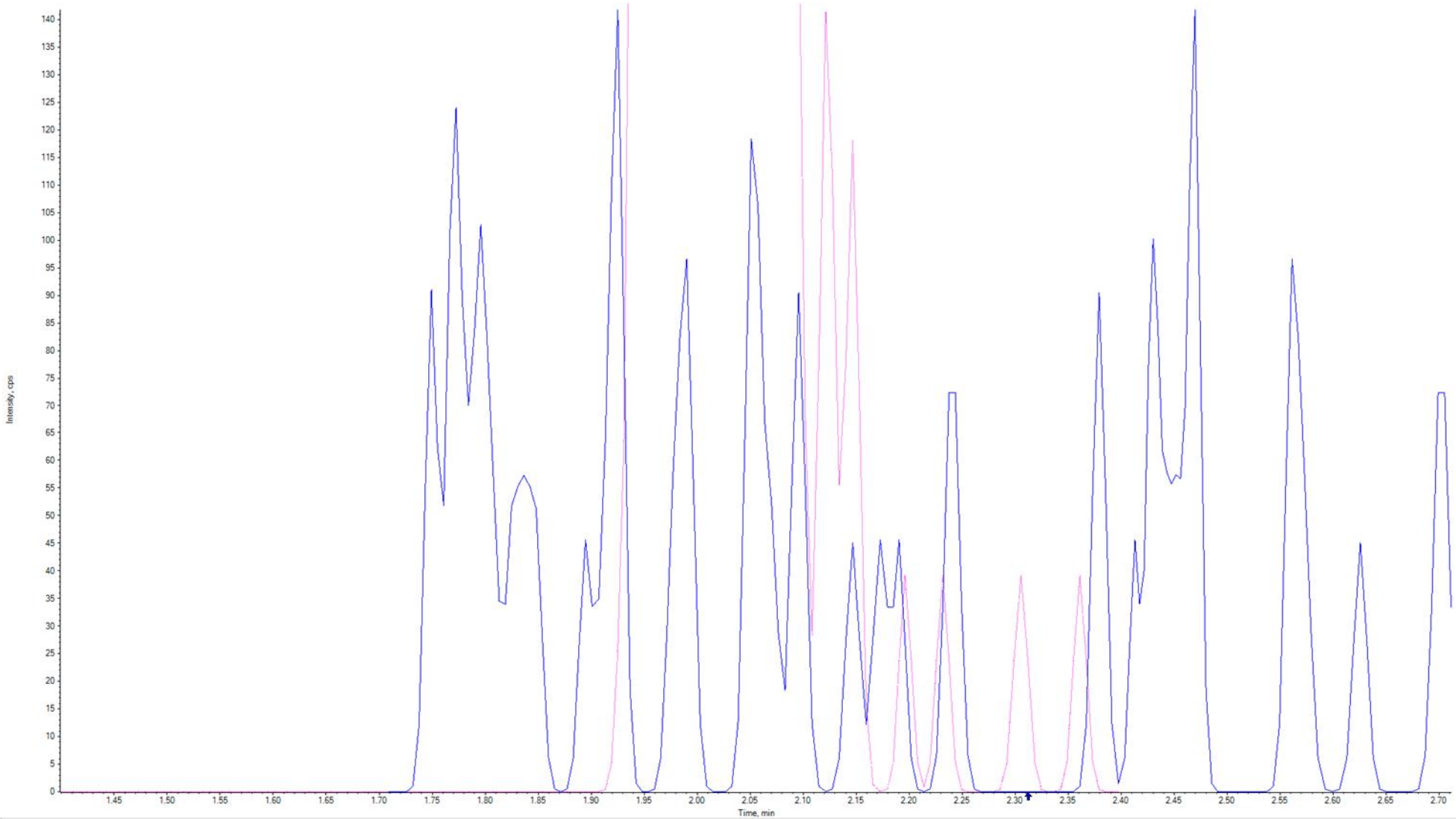
PFEESA
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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PFEESA_2
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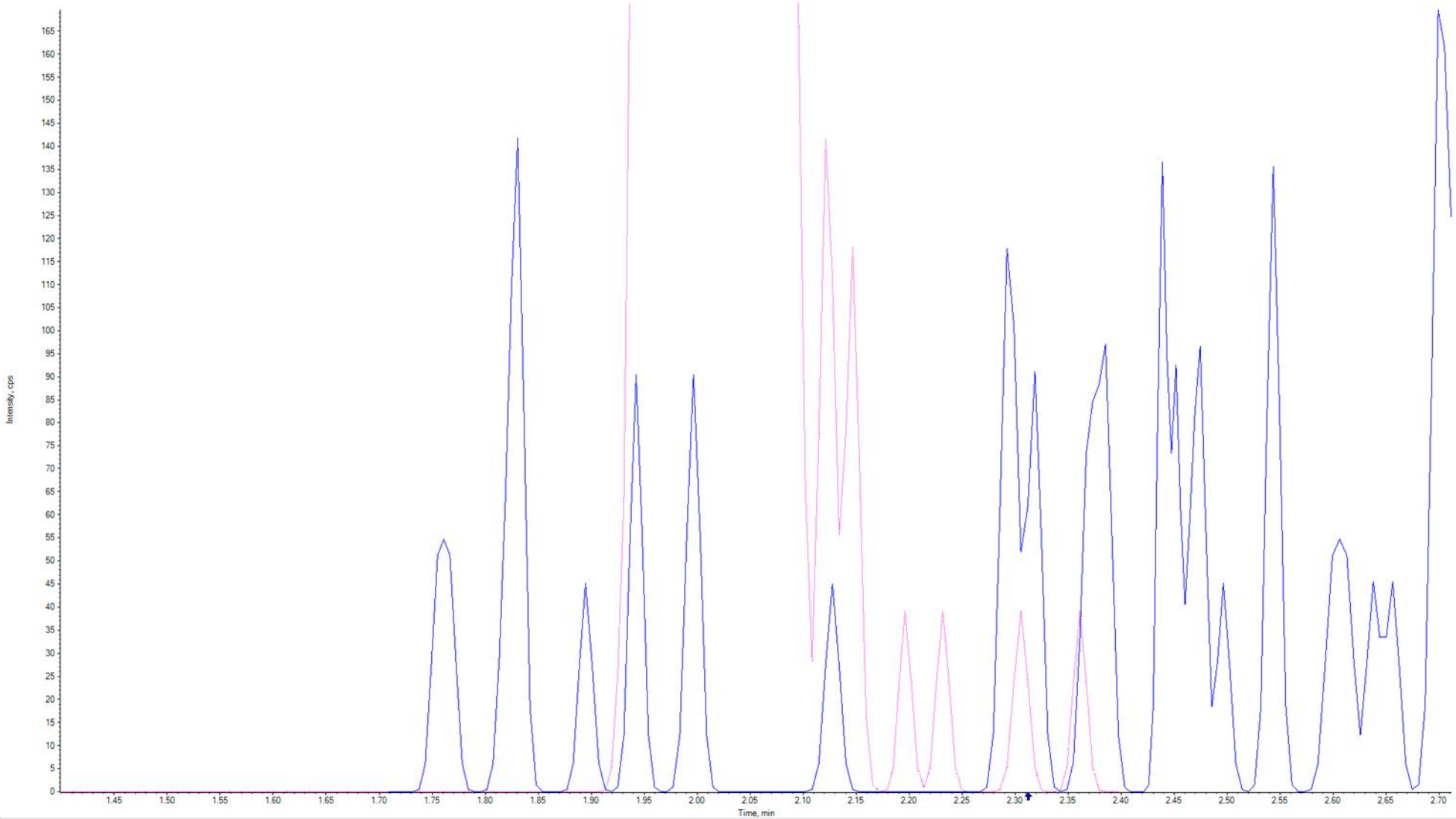

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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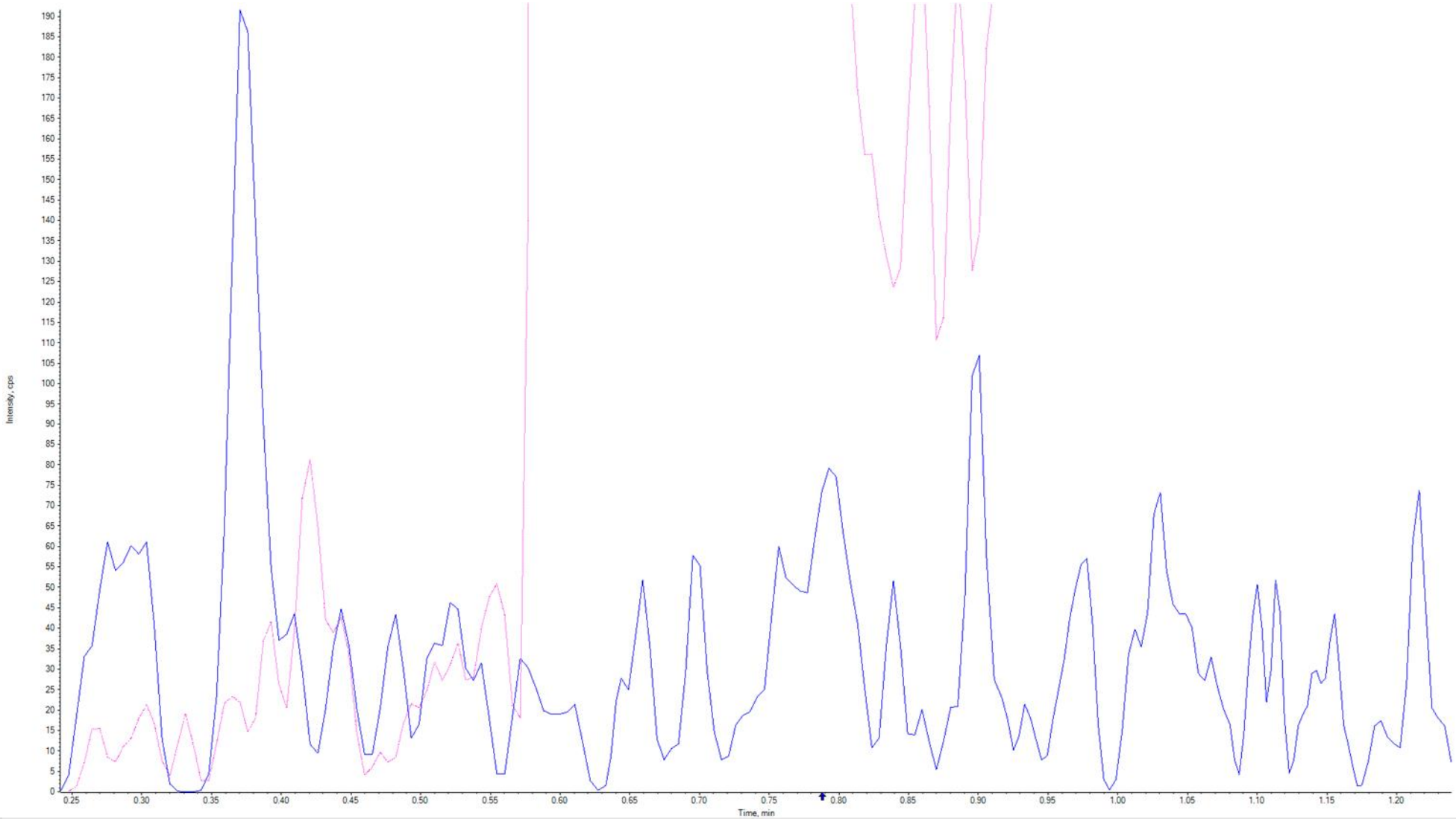
PFMPA
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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PFMBA
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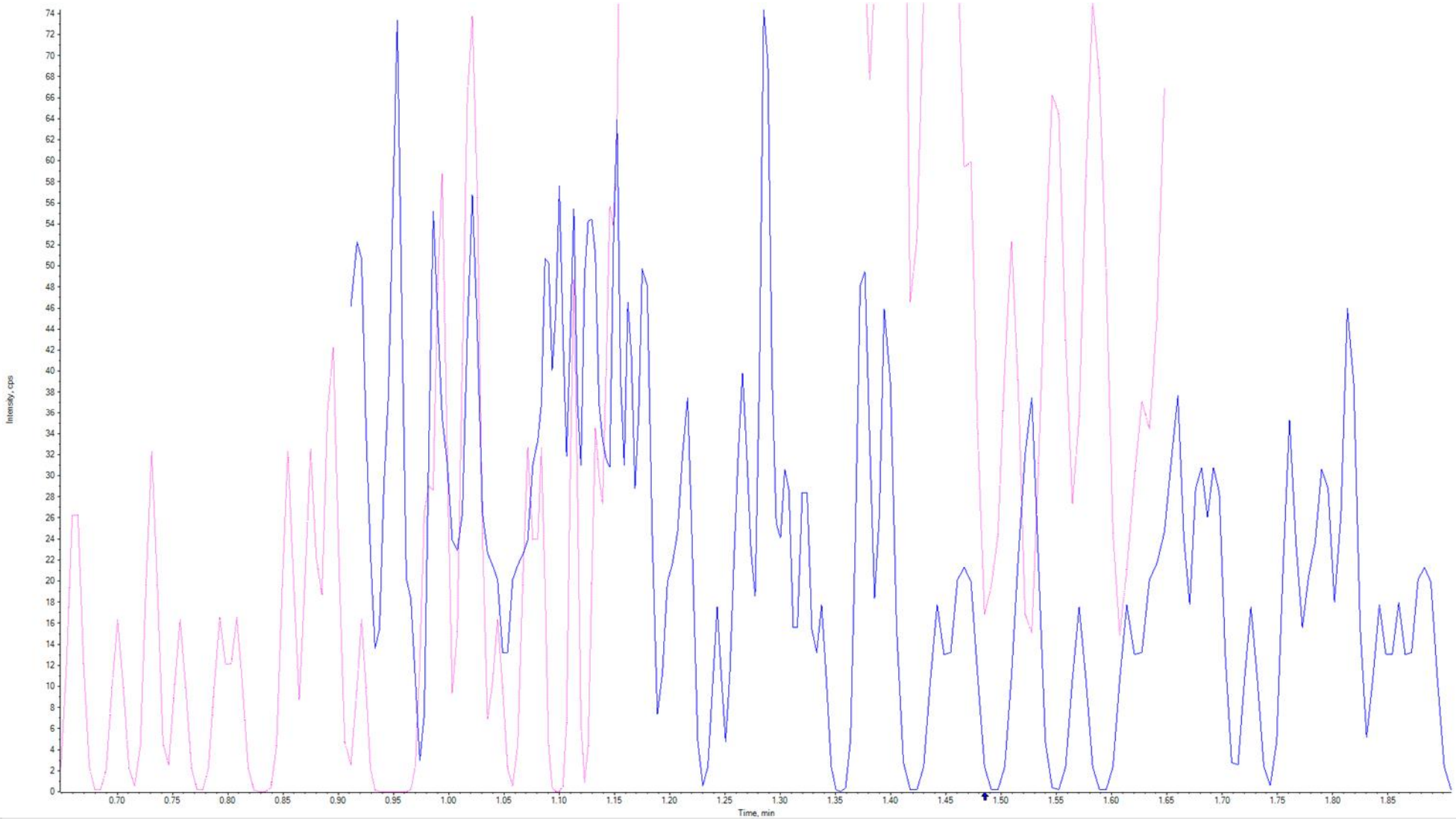

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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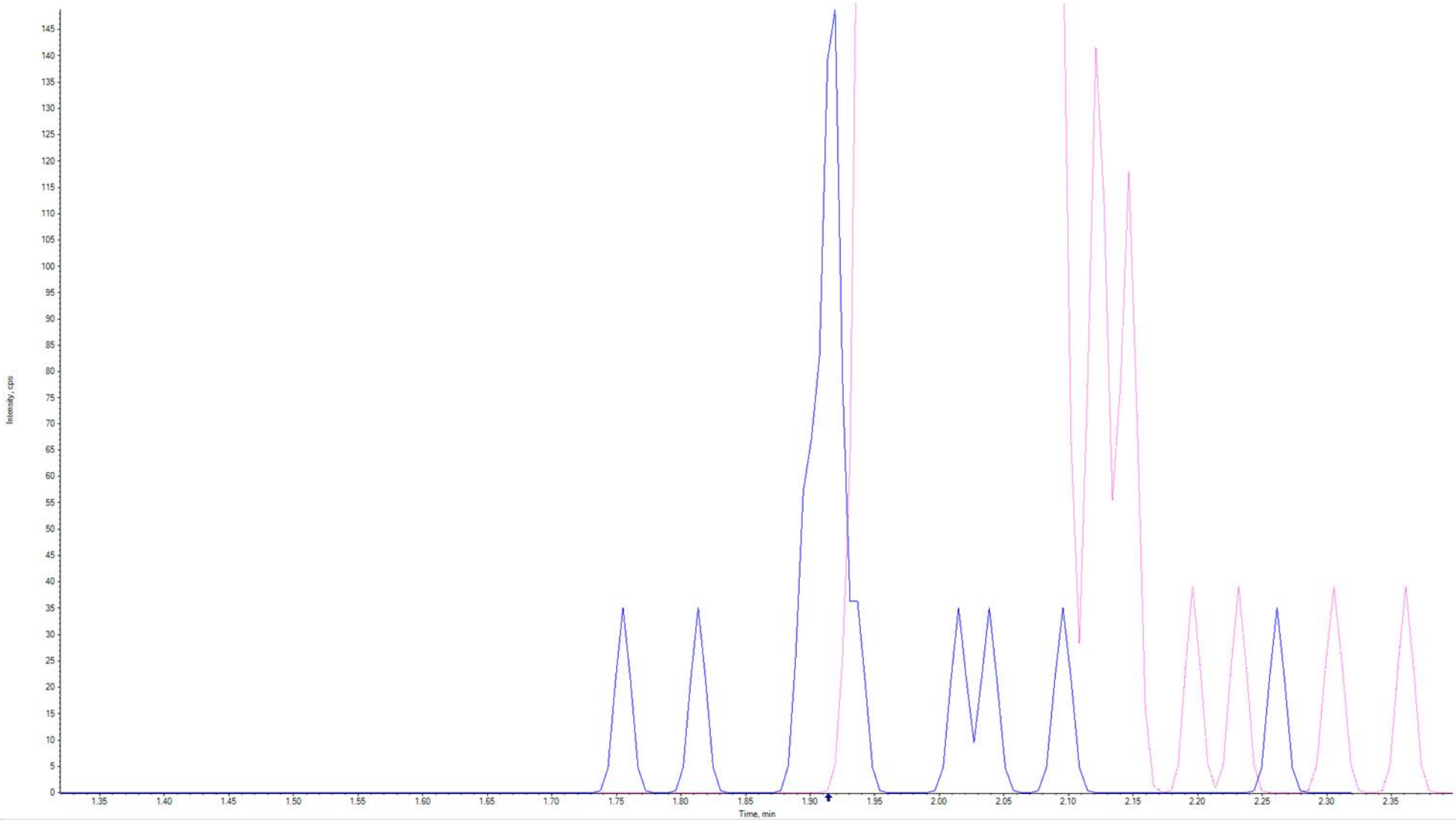
NFDHA
Sample: L2470744-17 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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NFDHA_2
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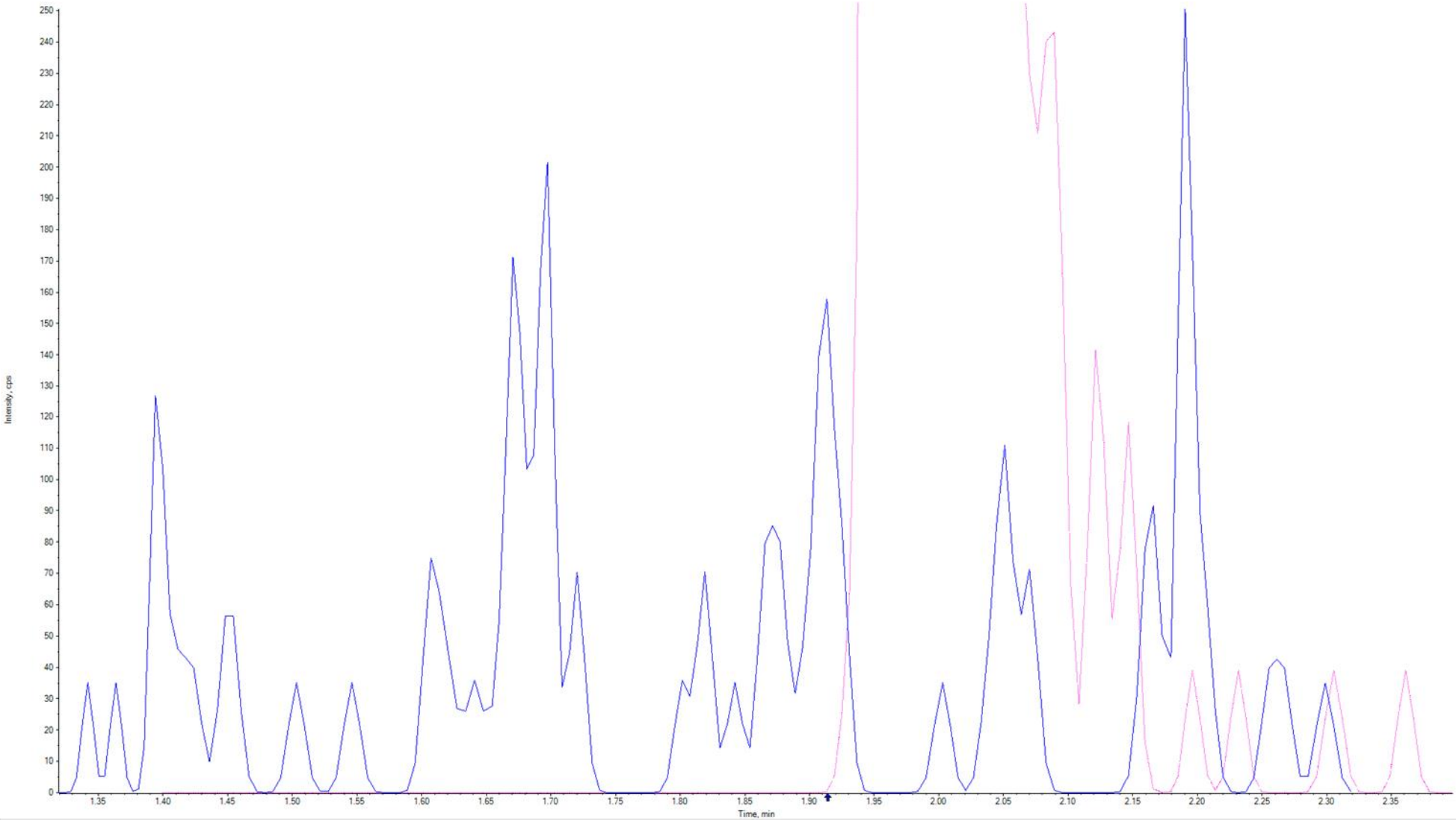

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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TDCA
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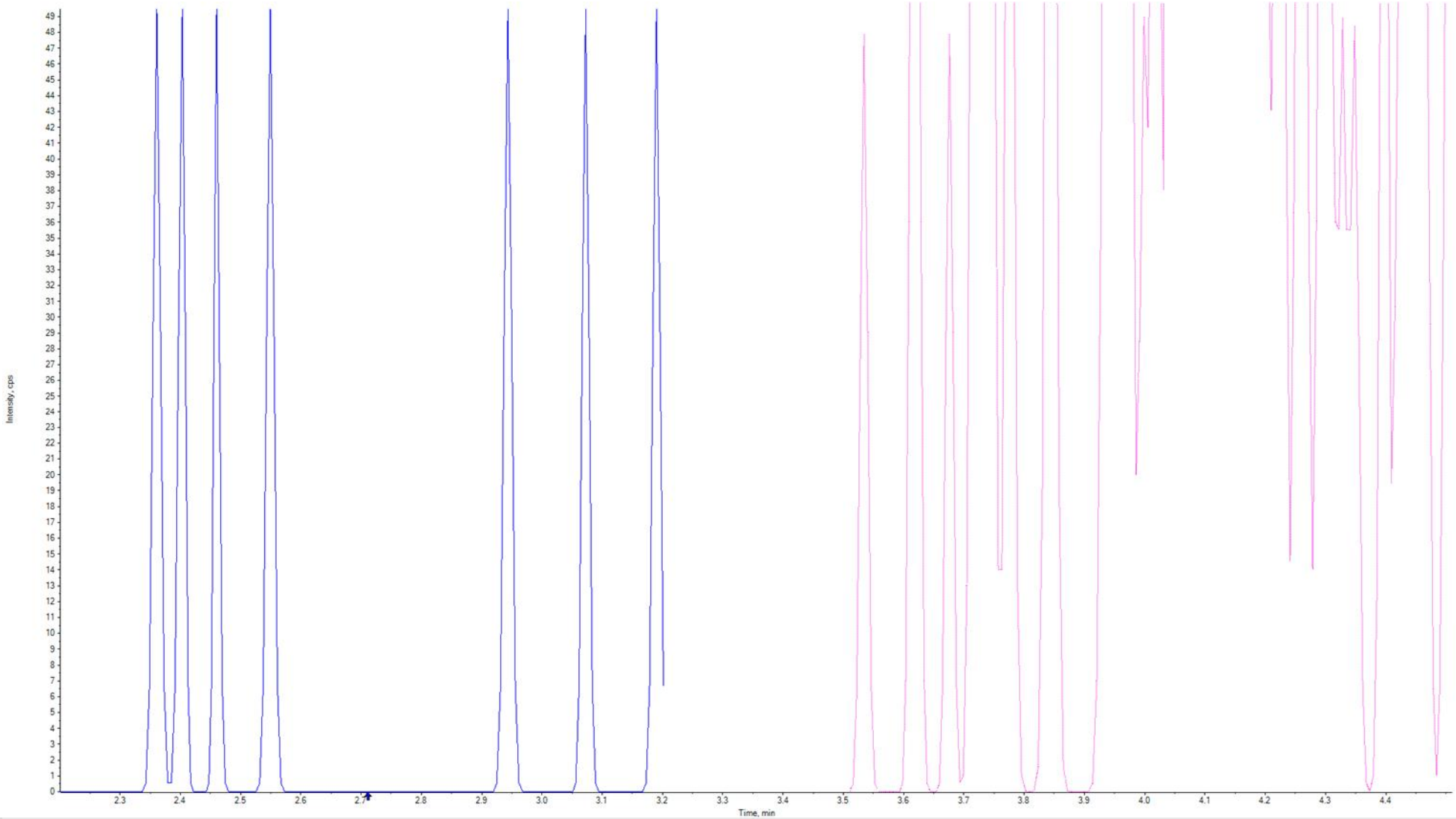

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TDCA_2
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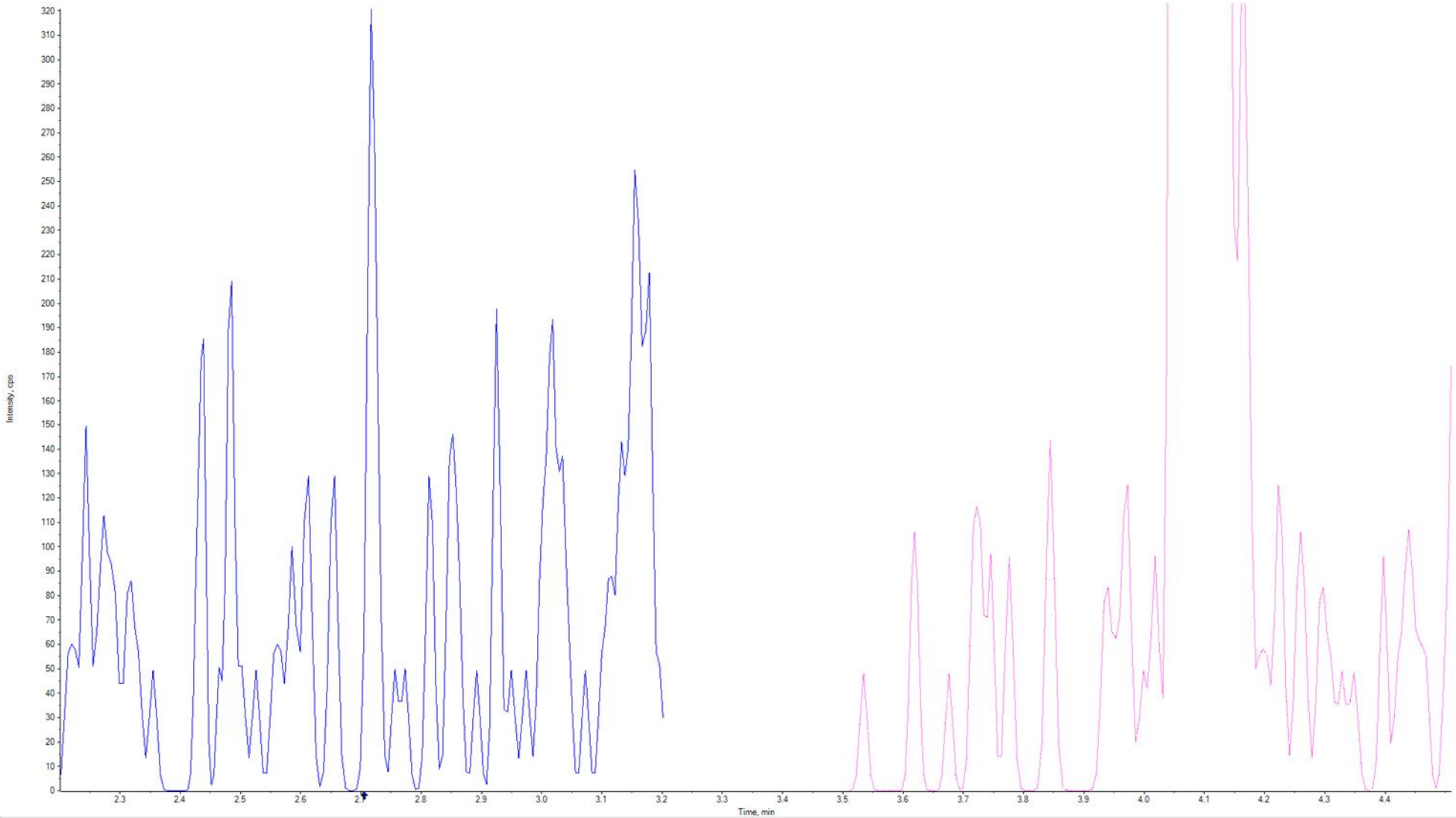

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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13C2D4-4:2FTS
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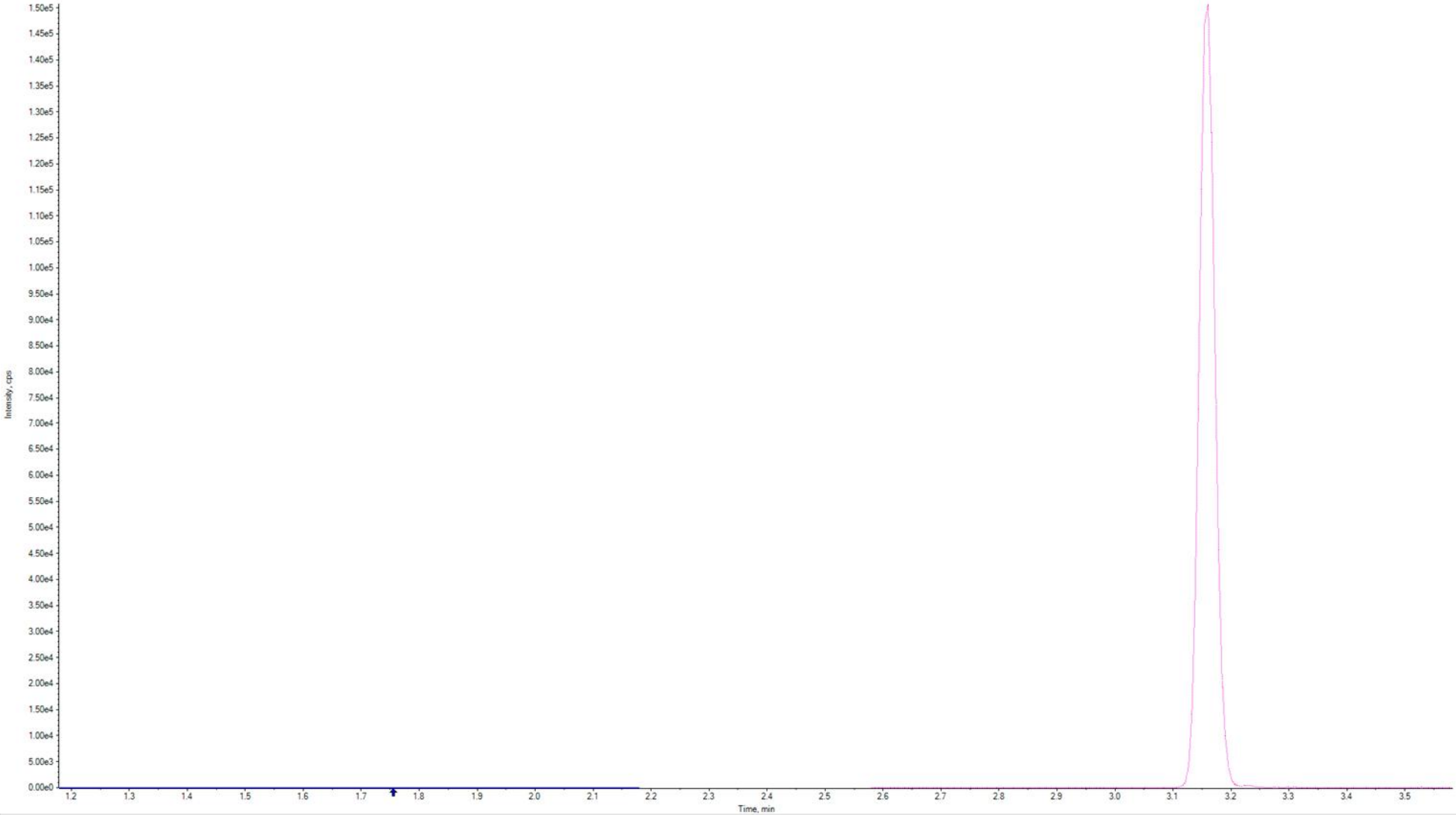

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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13C2-PFOA
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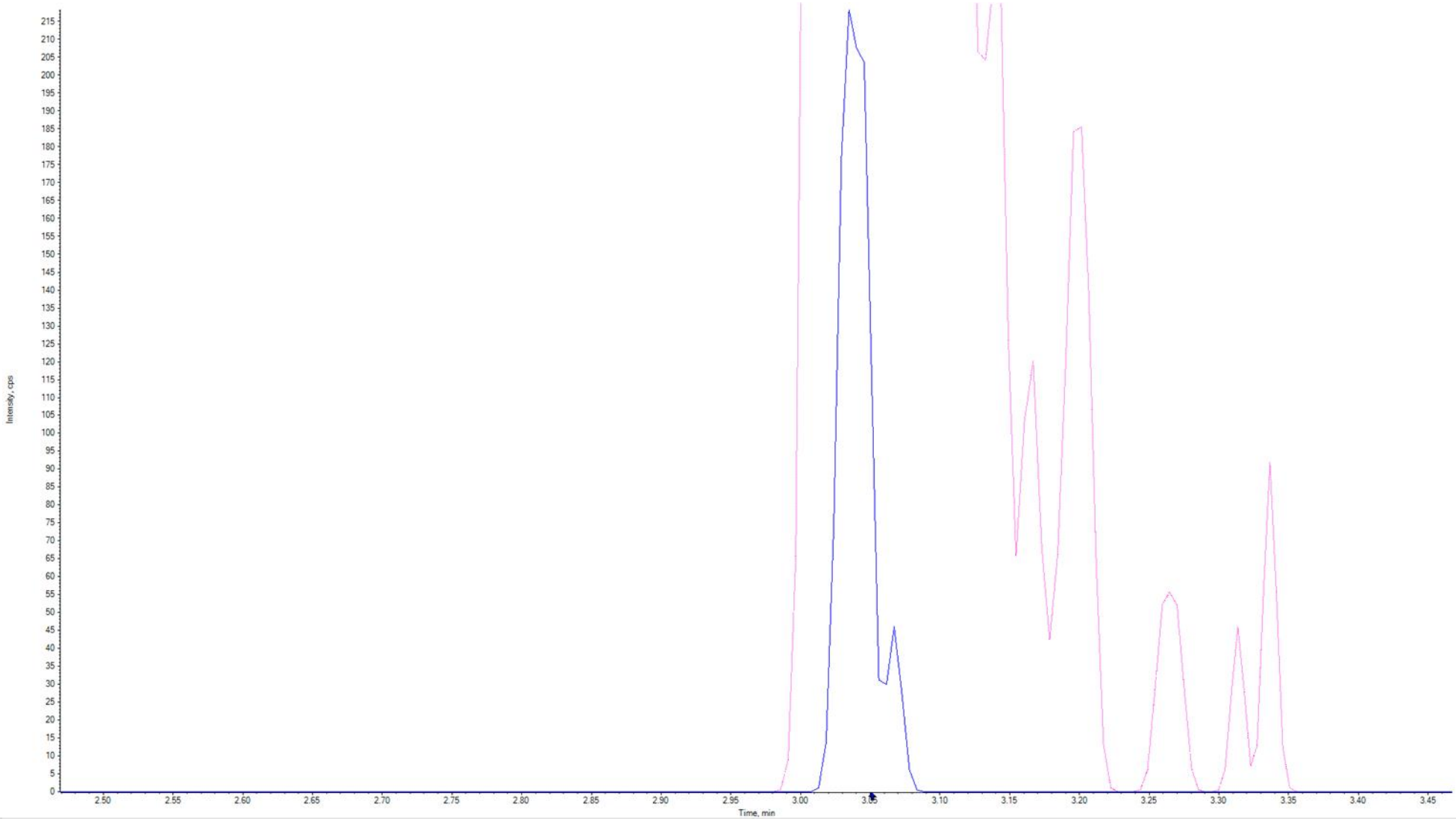

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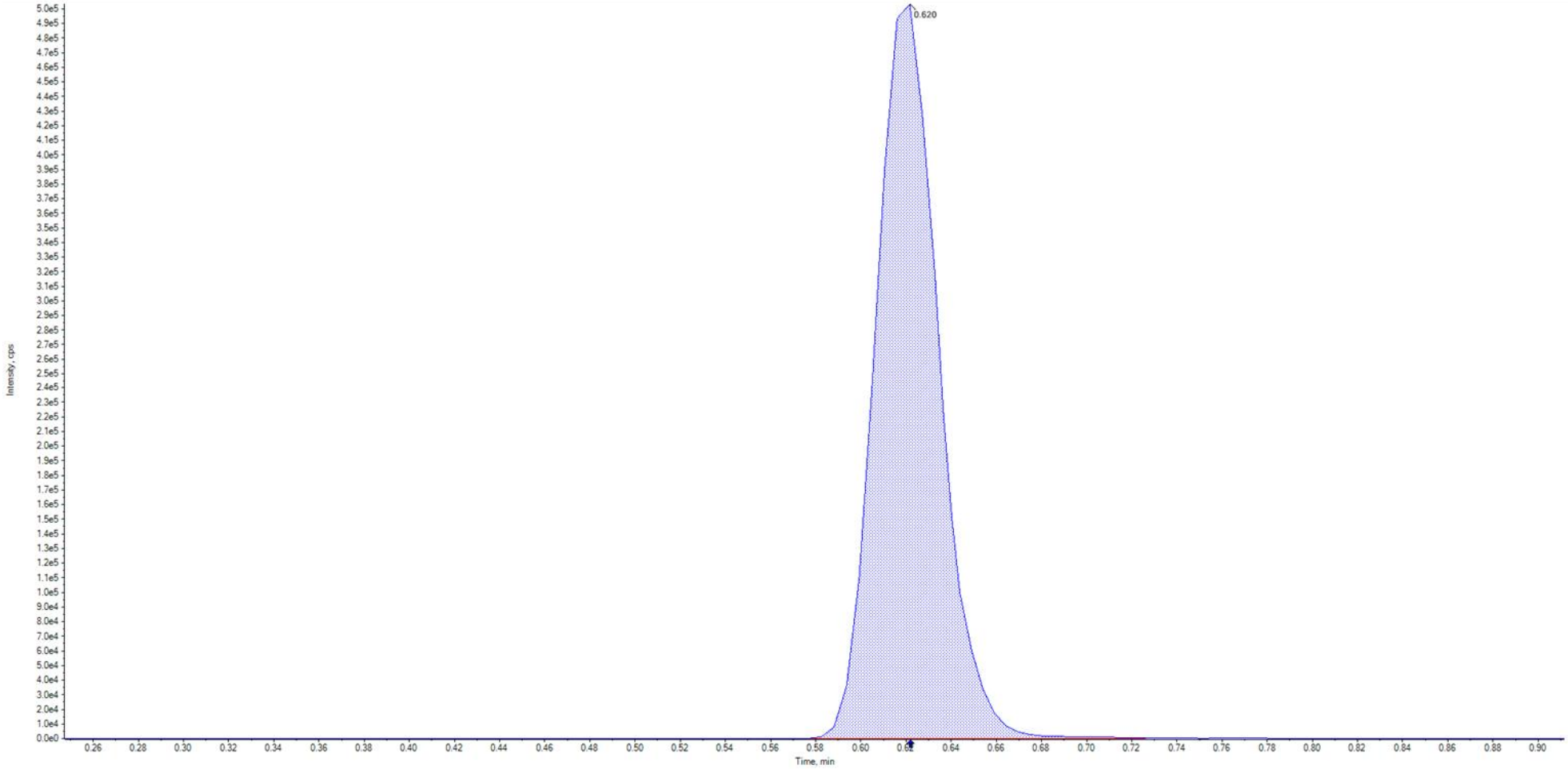
13C4-PFBA
Sample: L2470744-17



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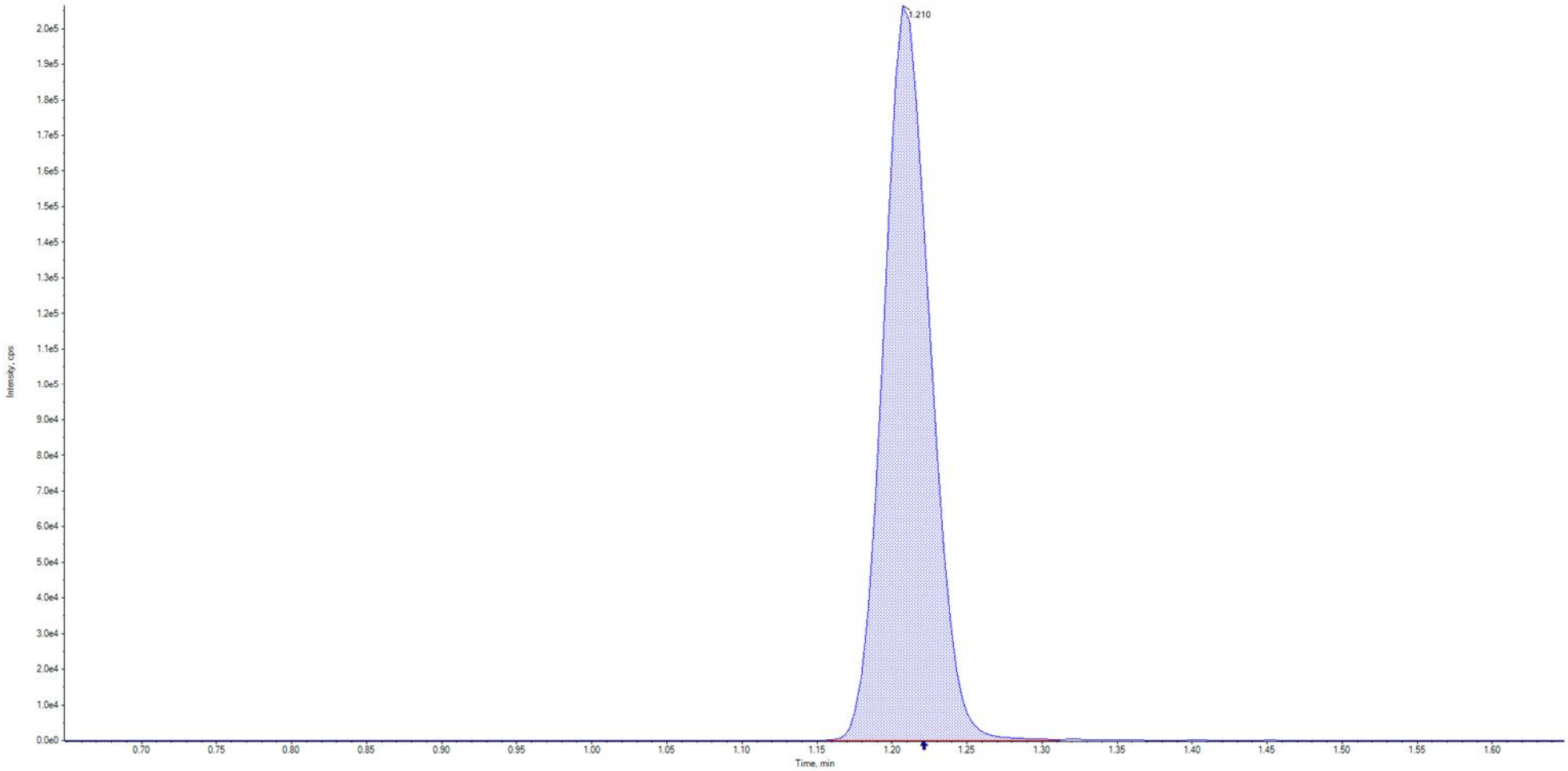
13C5-PFPeA
Sample: L2470744-17



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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13C5-PFHxA
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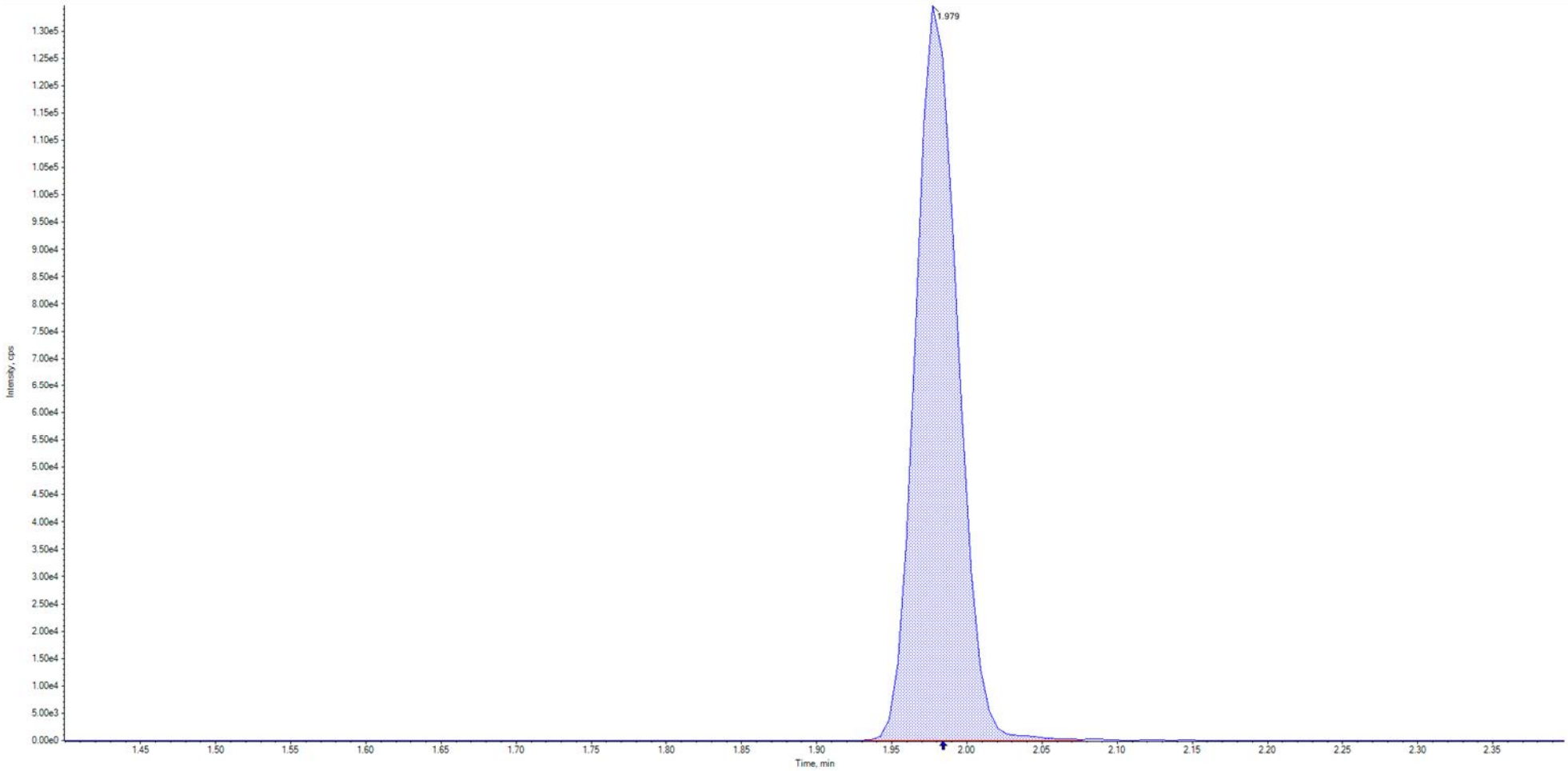

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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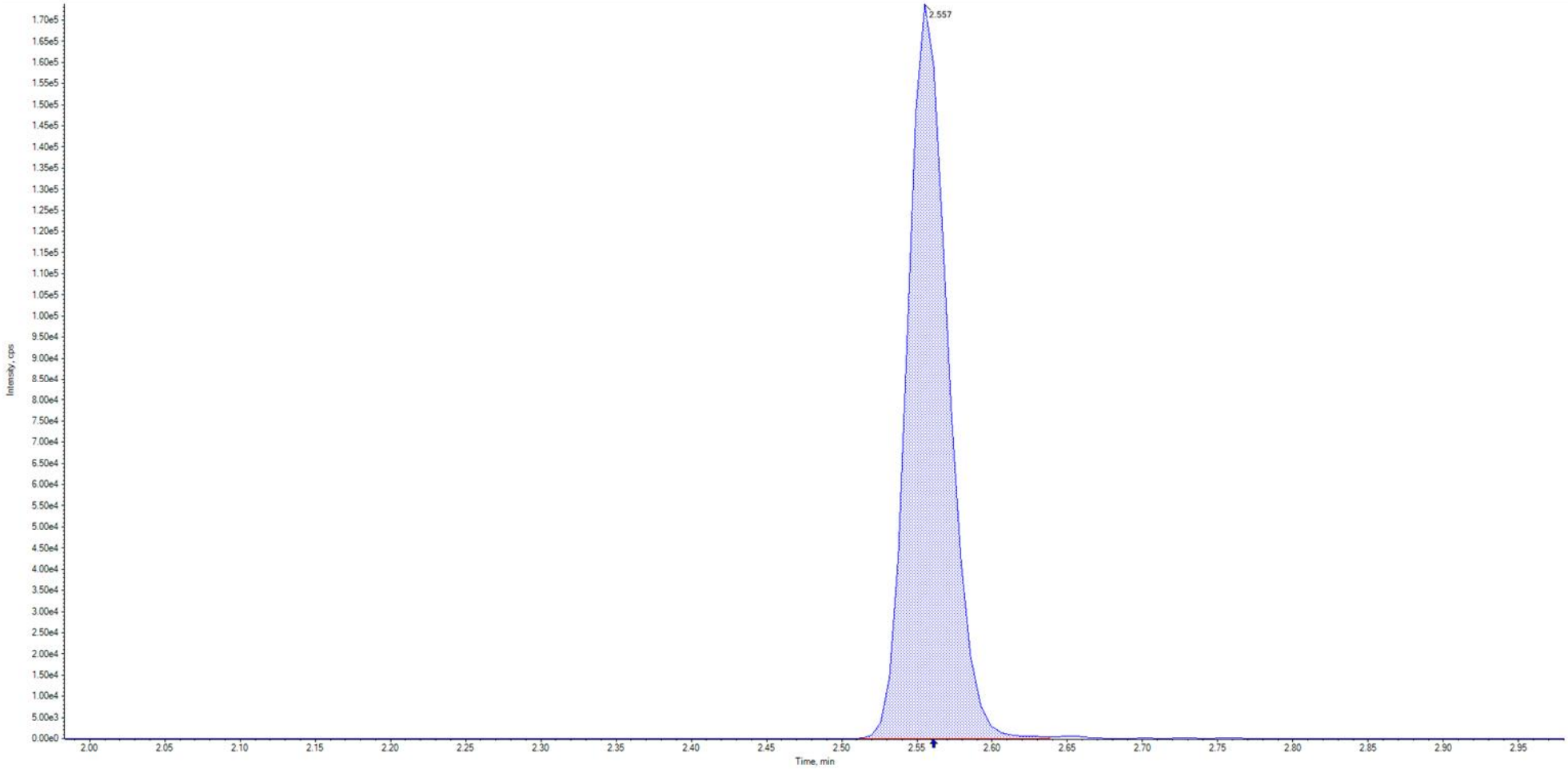
13C4-PFHpA
Sample: L2470744-17



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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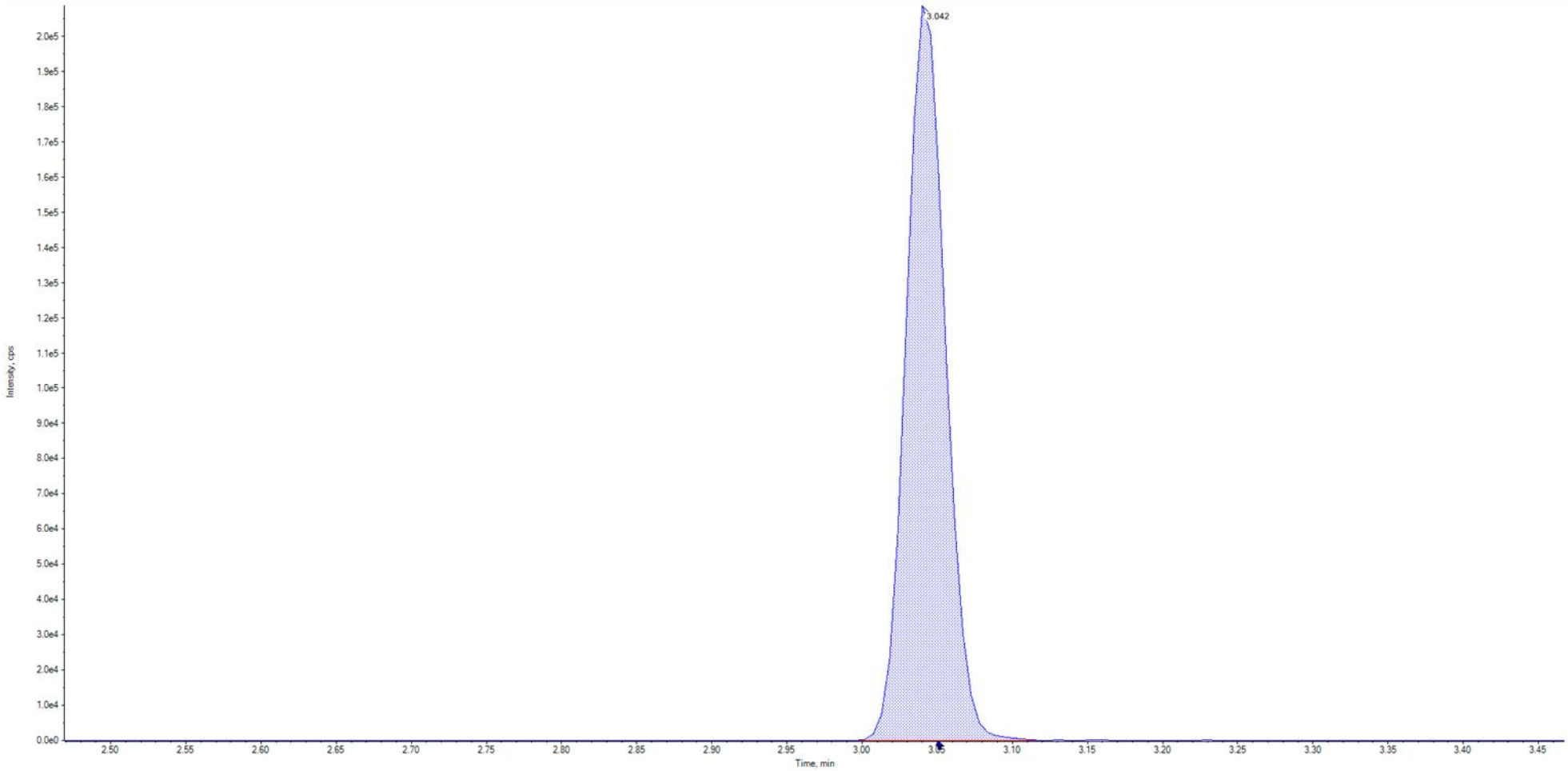
Generated: 12/20/2024 10:43:43 AM

13C8-PFOA
Sample: L2470744-17



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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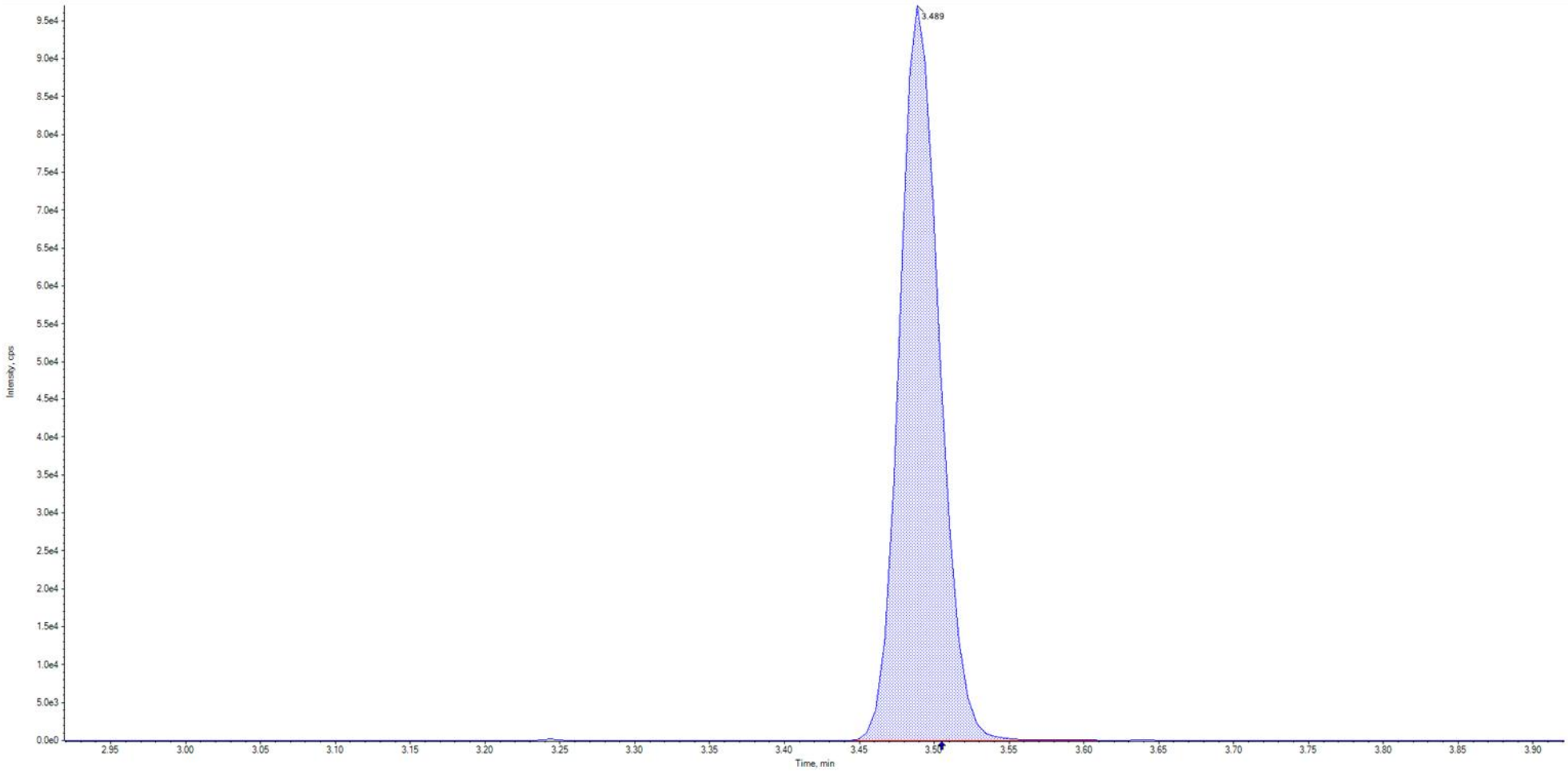
13C9-PFNA
Sample: L2470744-17



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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13C6-PFDA
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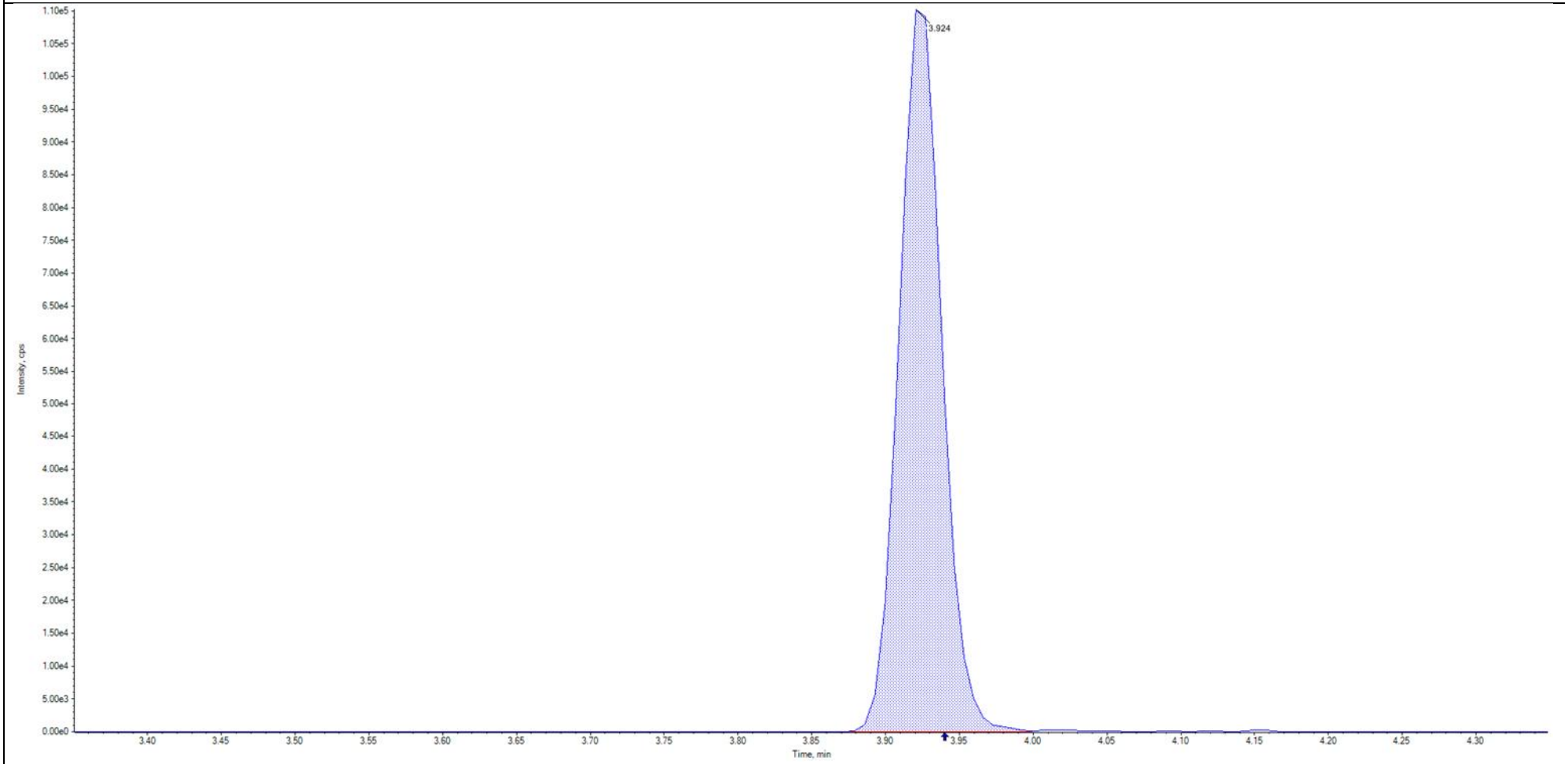
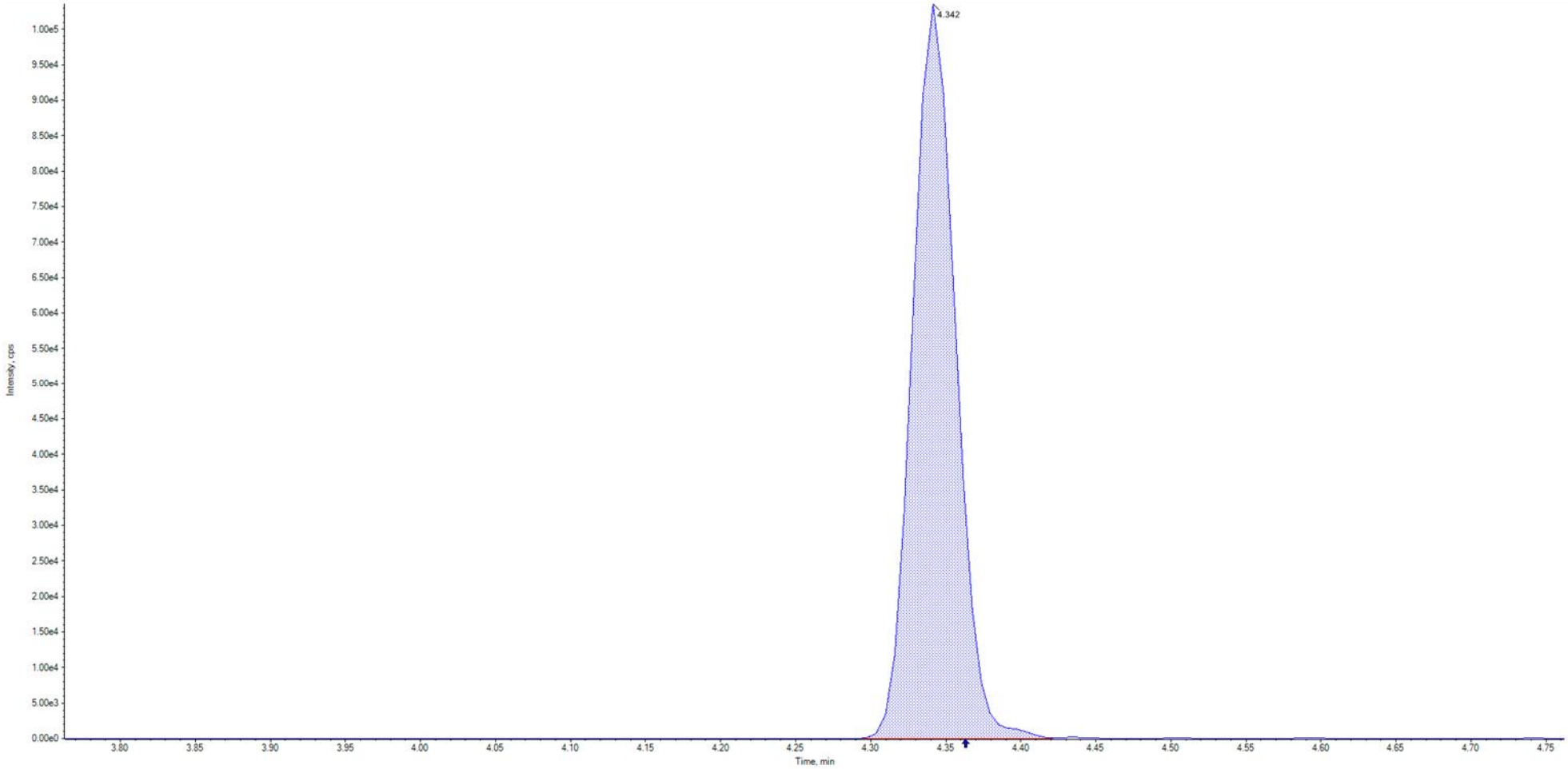


Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_41.wiff2_8
Last Altered: 12/20/2024 12:41:04 PM
Generated: 12/20/2024 10:43:43 AM

13C7-PFUnA
Sample: L2470744-17



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_41.wiff2_8
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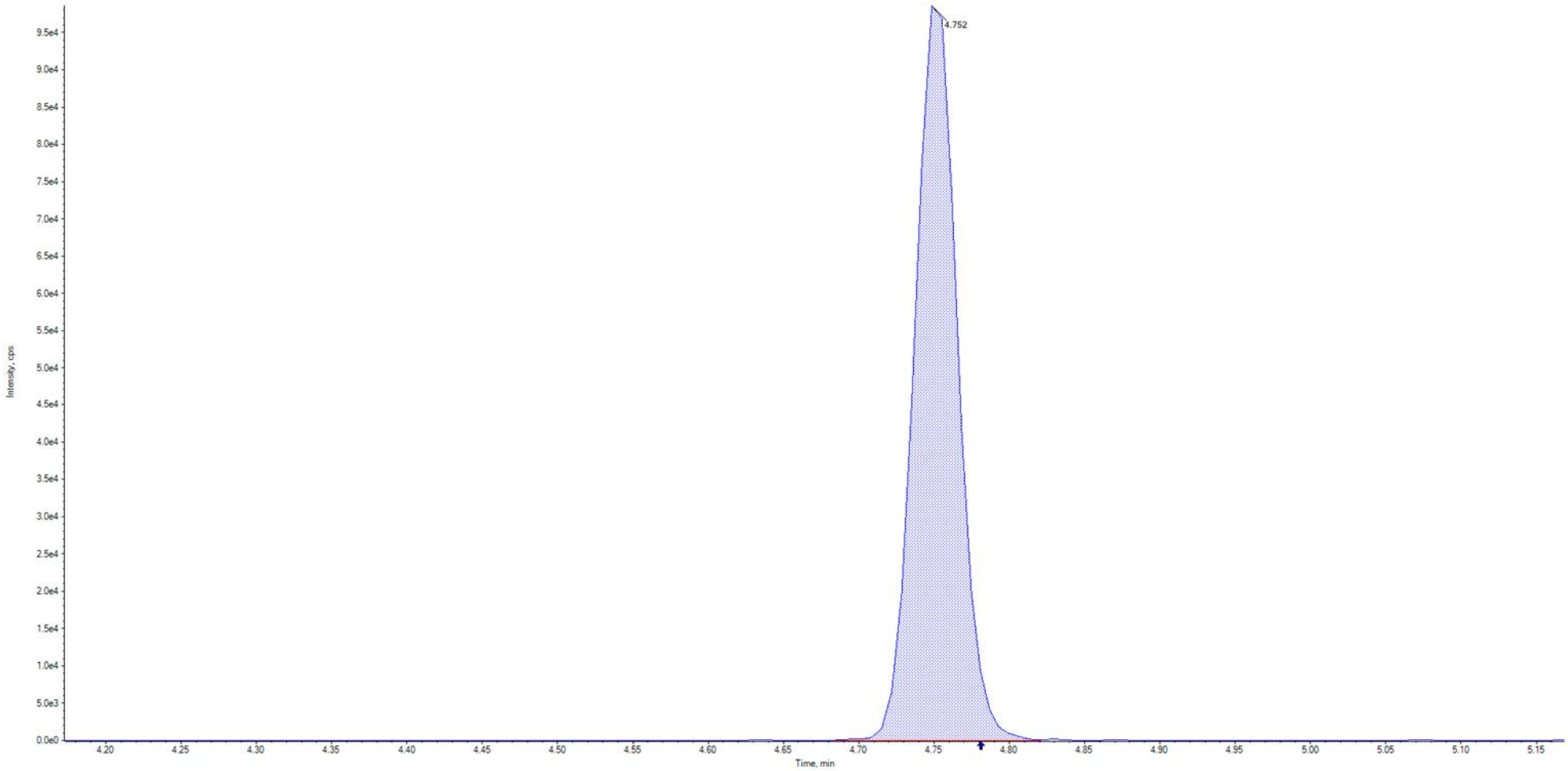
Generated: 12/20/2024 10:43:43 AM

13C2-PFDoA
Sample: L2470744-17



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_41.wiff2_8
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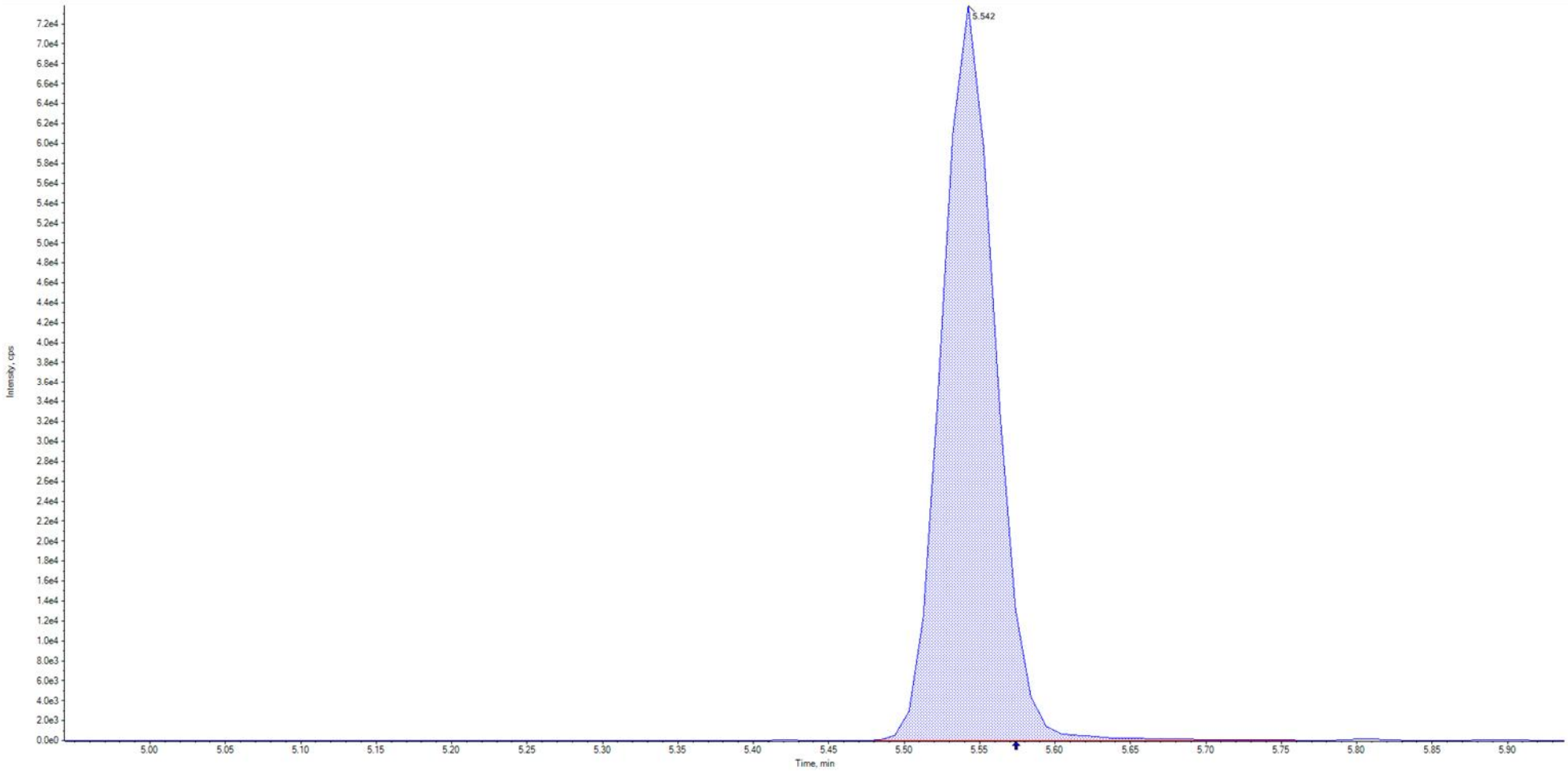
13C2-PFTeDA
Sample: L2470744-17



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_41.wiff2_8
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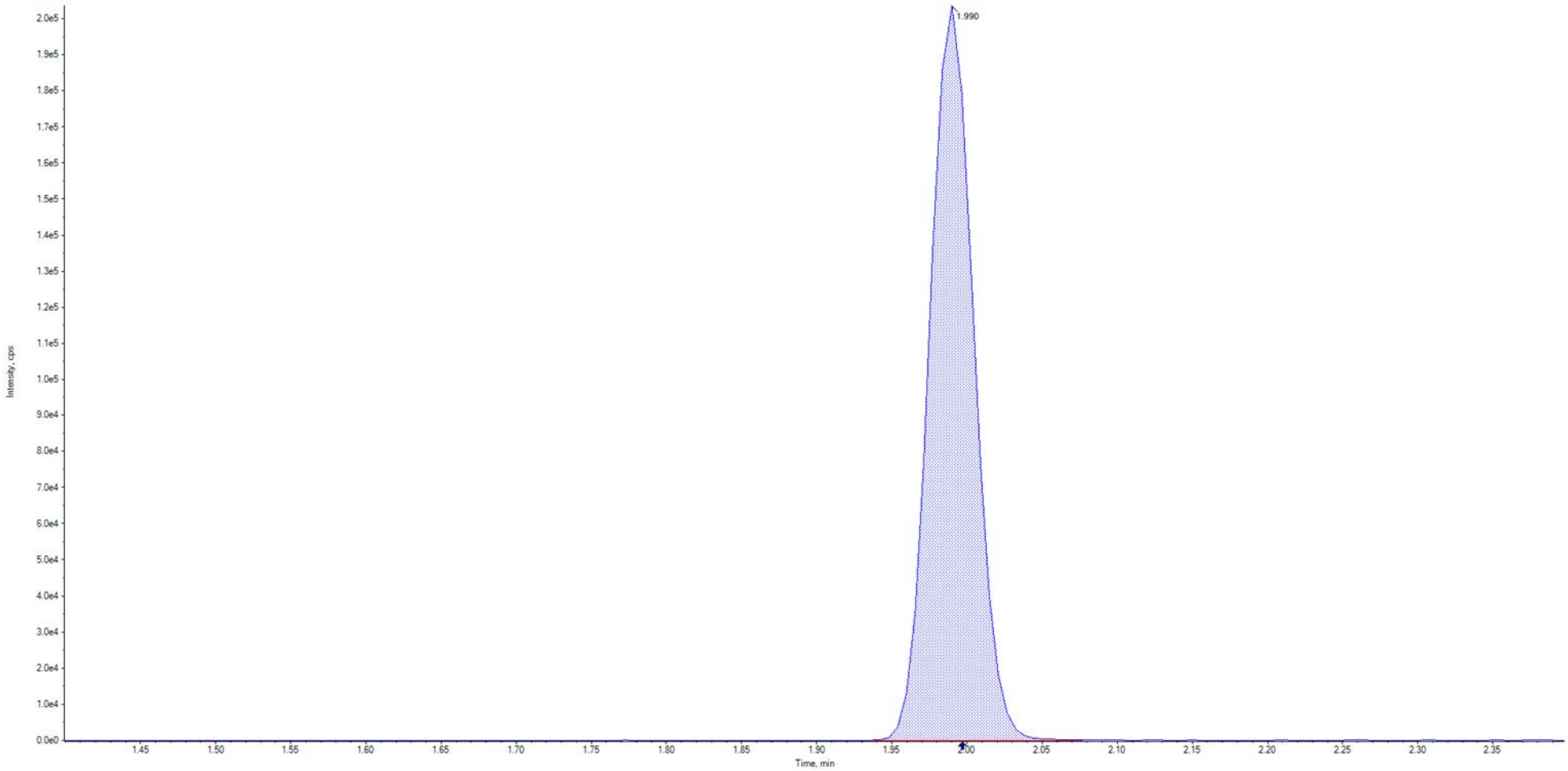
13C3-PFBS
Sample: L2470744-17



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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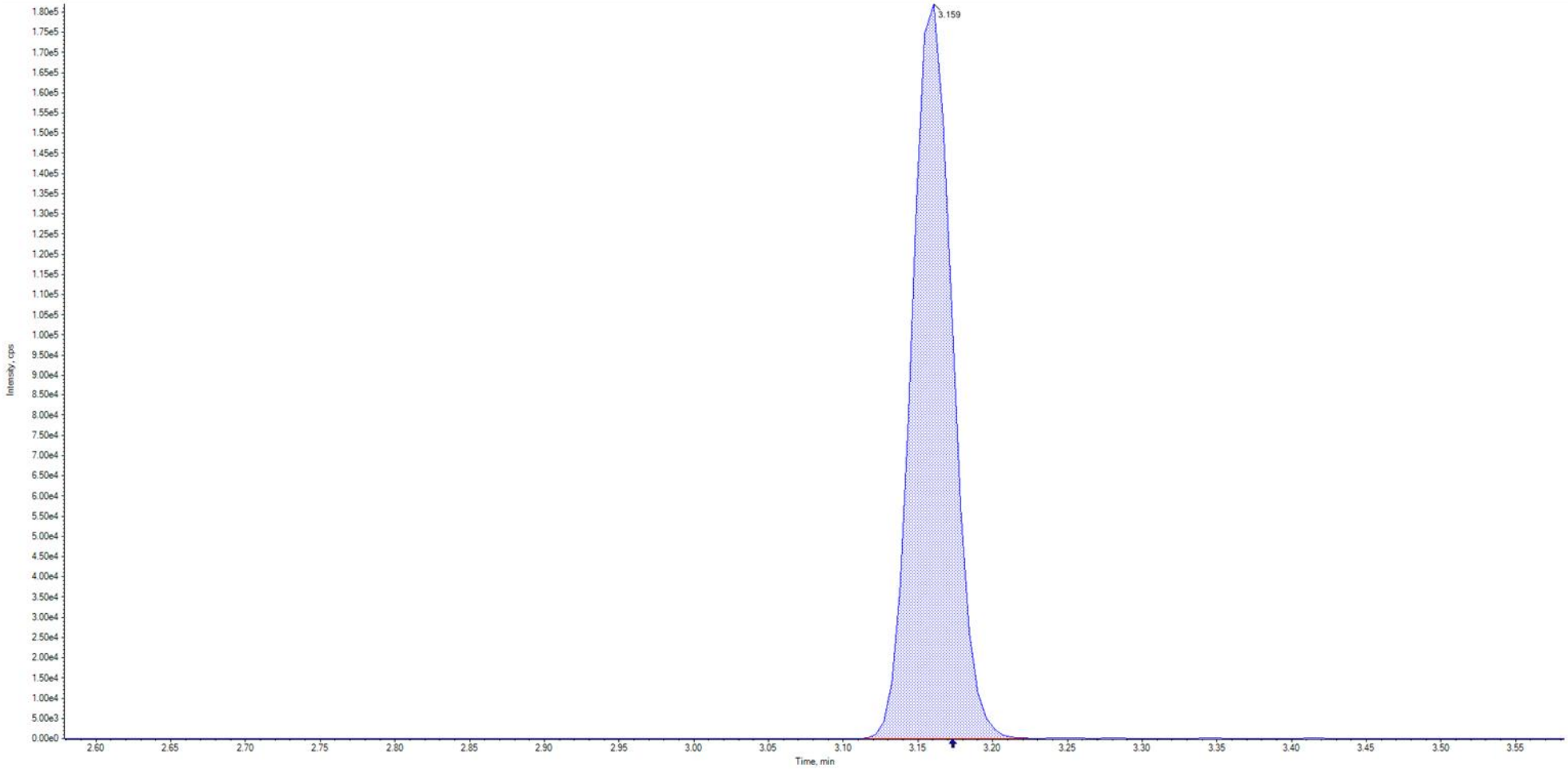
13C3-PFHxS
Sample: L2470744-17



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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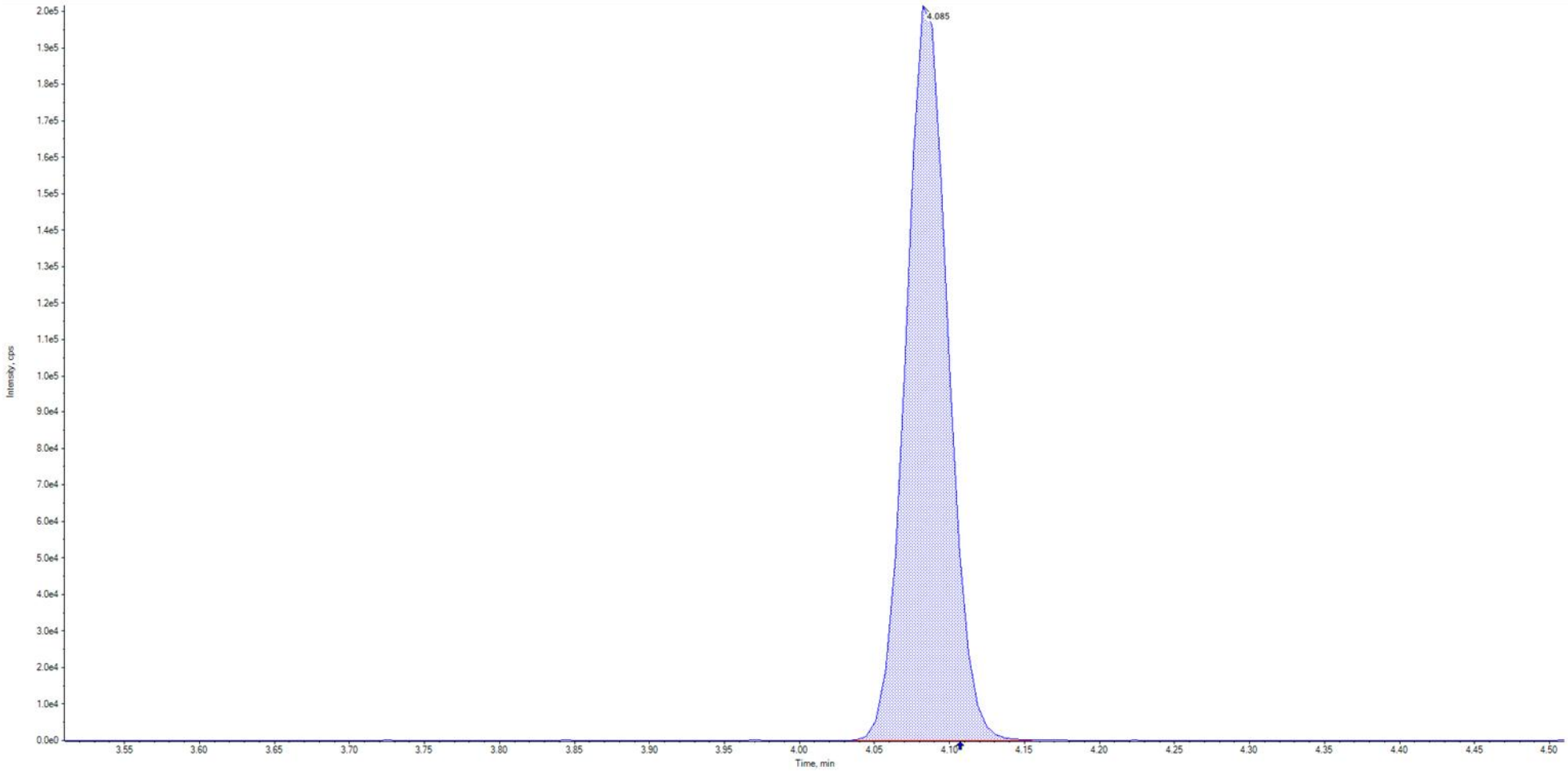
13C8-PFOS
Sample: L2470744-17



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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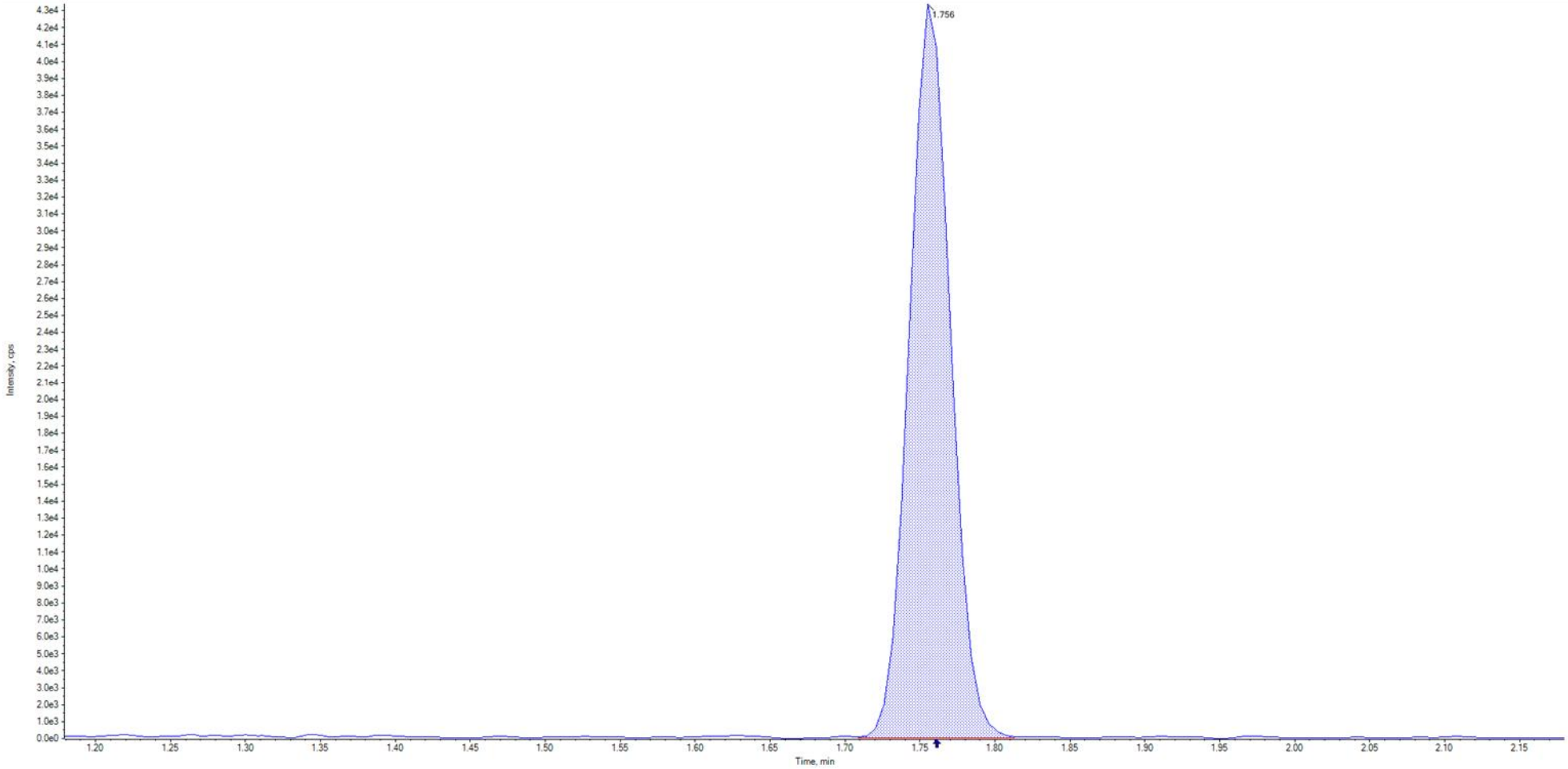
Generated: 12/20/2024 10:43:43 AM

13C2-4:2FTS
Sample: L2470744-17



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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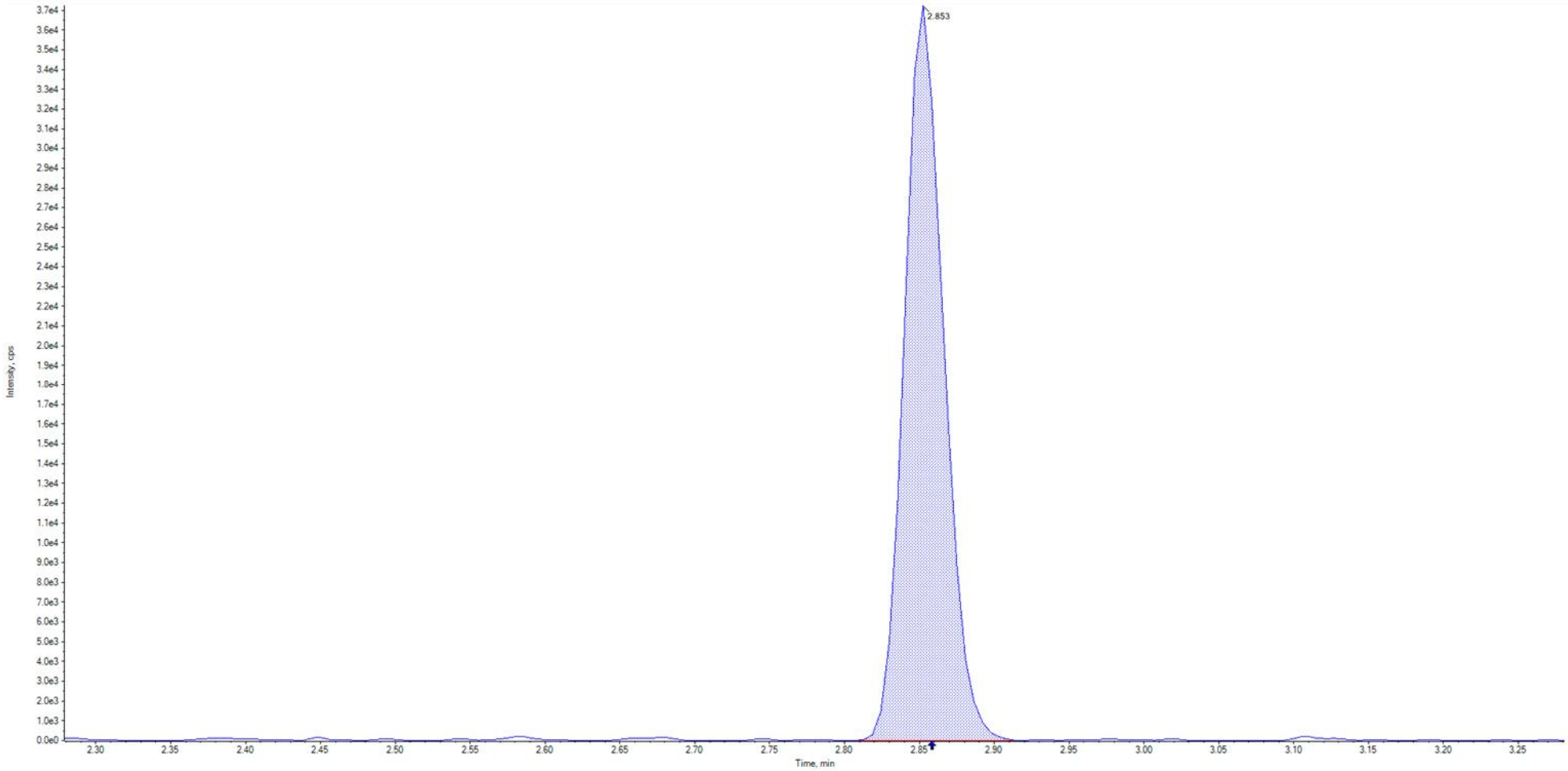
13C2-6:2FTS
Sample: L2470744-17



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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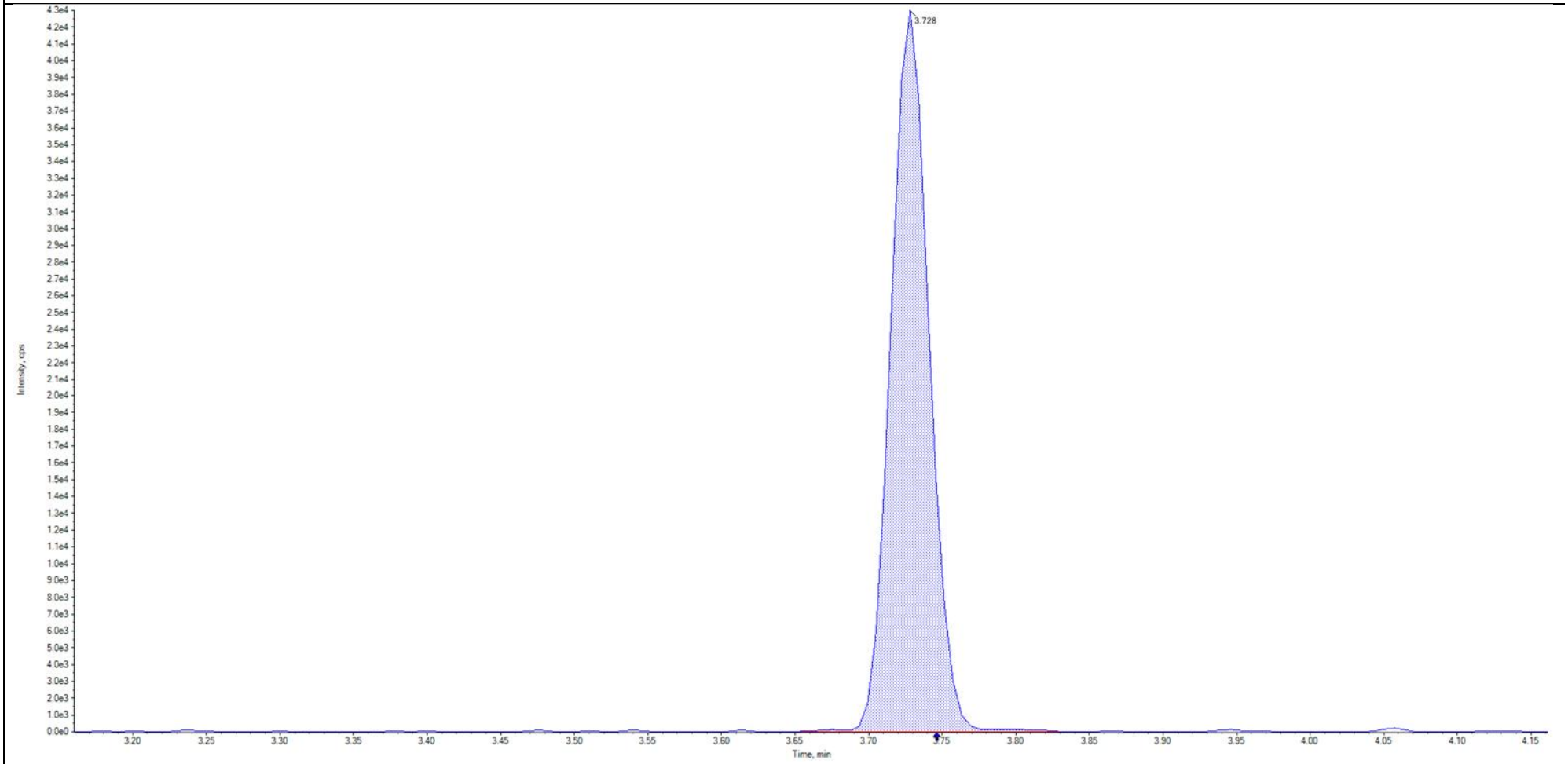
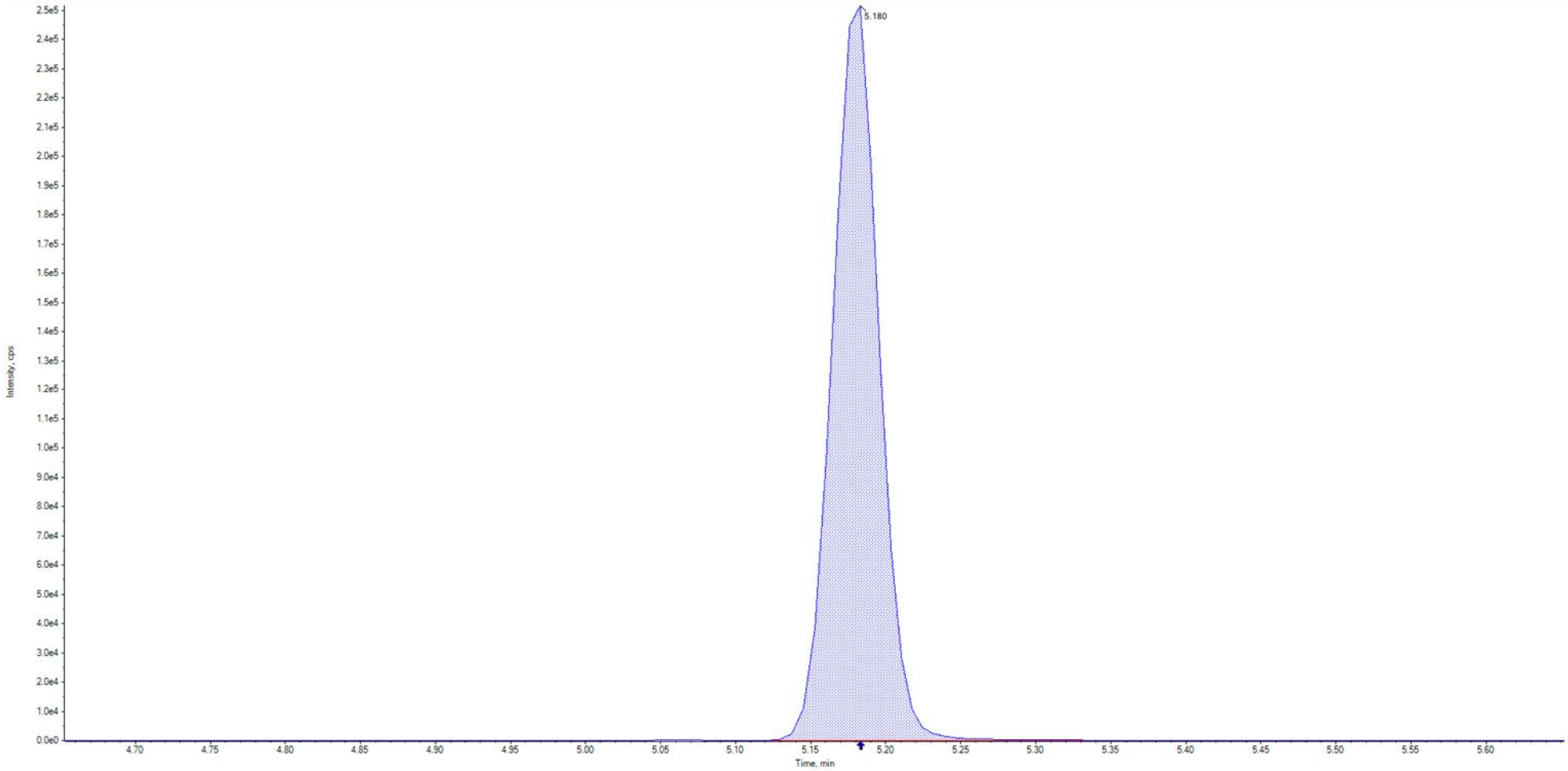
13C2-8:2FTS
Sample: L2470744-17



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_41.wiff2_8
Last Altered: 12/20/2024 12:41:04 PM
Generated: 12/20/2024 10:43:43 AM

13C8-PFOSA
Sample: L2470744-17



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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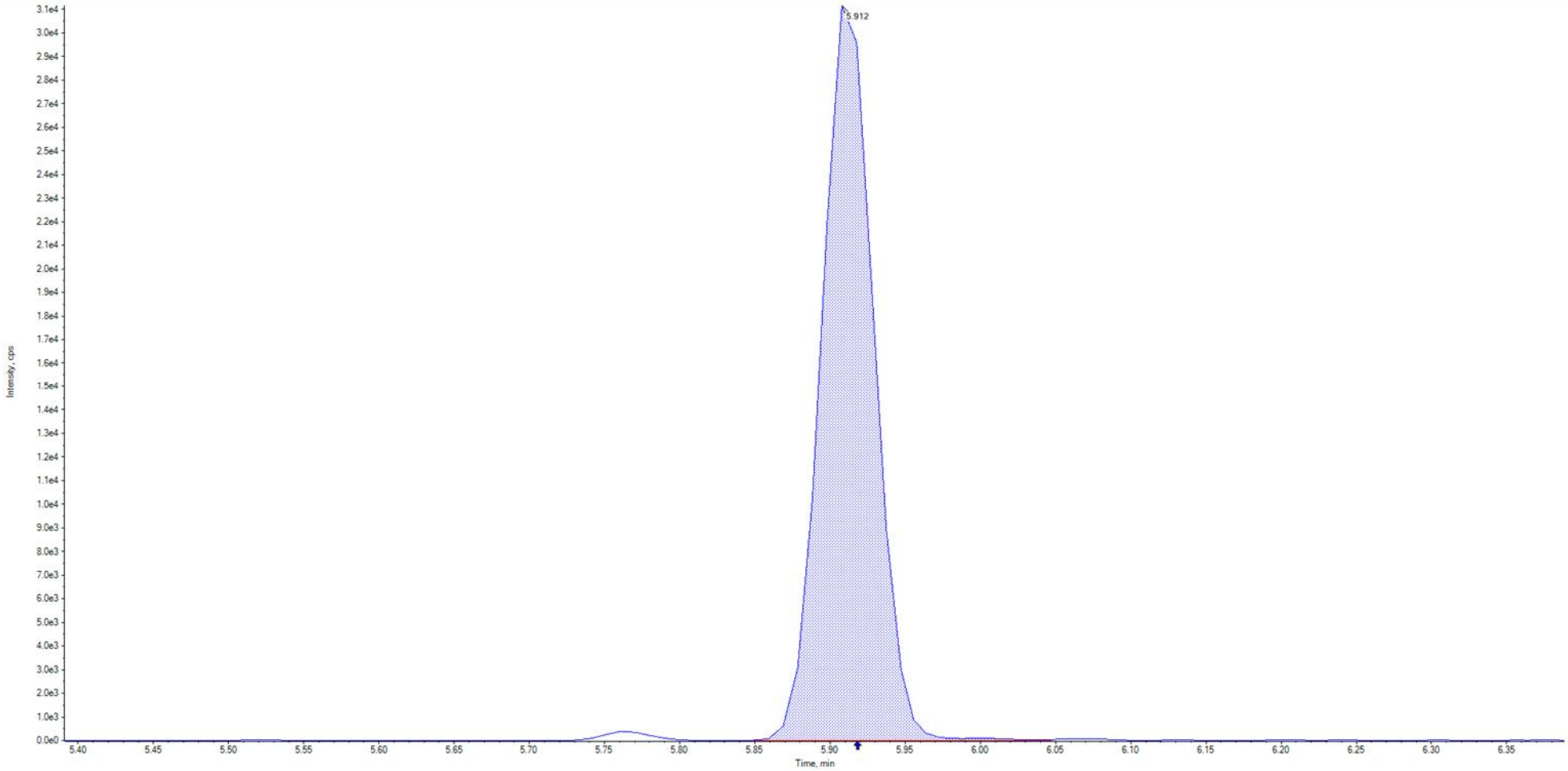
Generated: 12/20/2024 10:43:43 AM

d3-NMeFOSA
Sample: L2470744-17



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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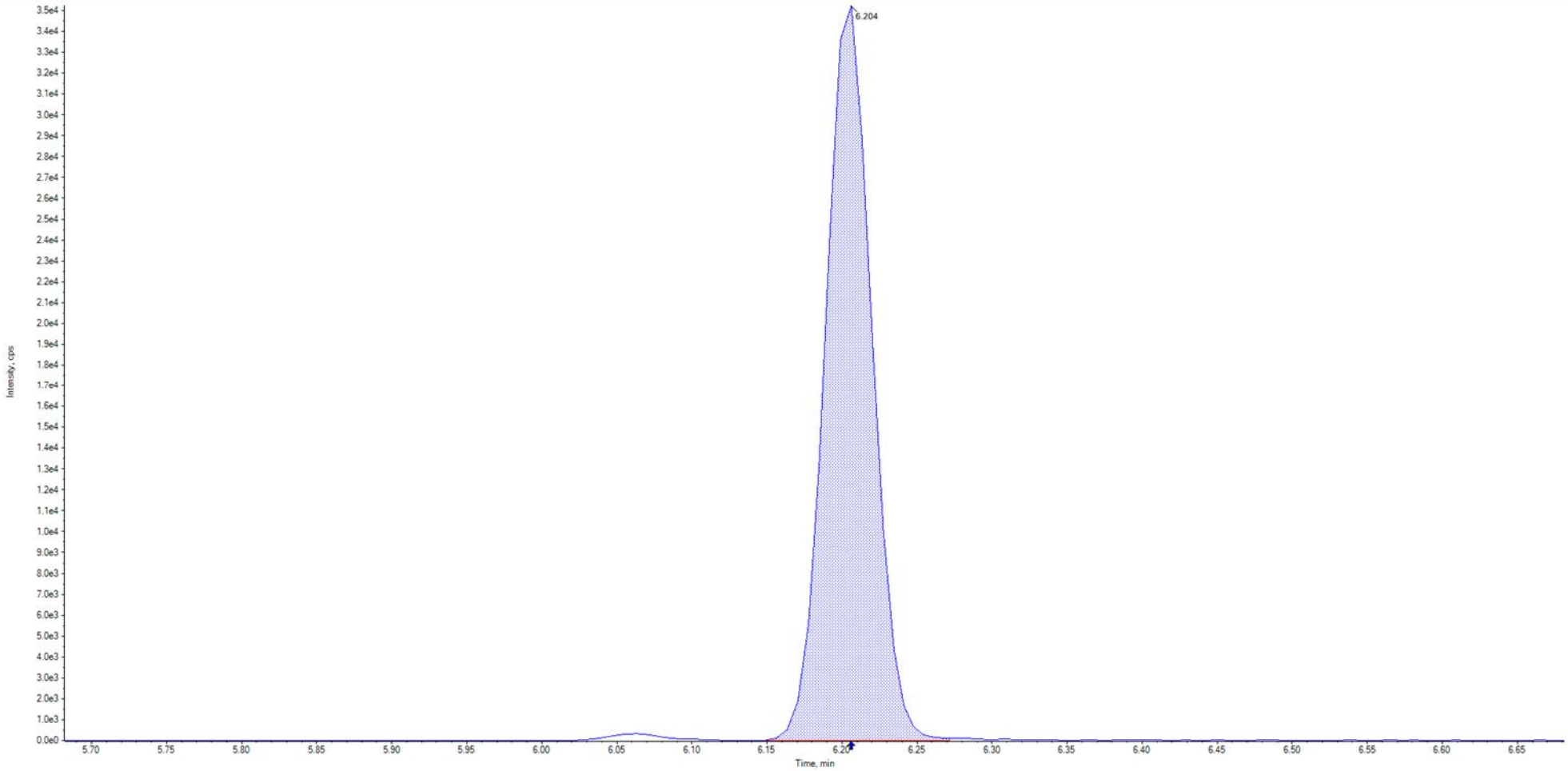
Generated: 12/20/2024 10:43:43 AM

d5-NEtFOSA
Sample: L2470744-17



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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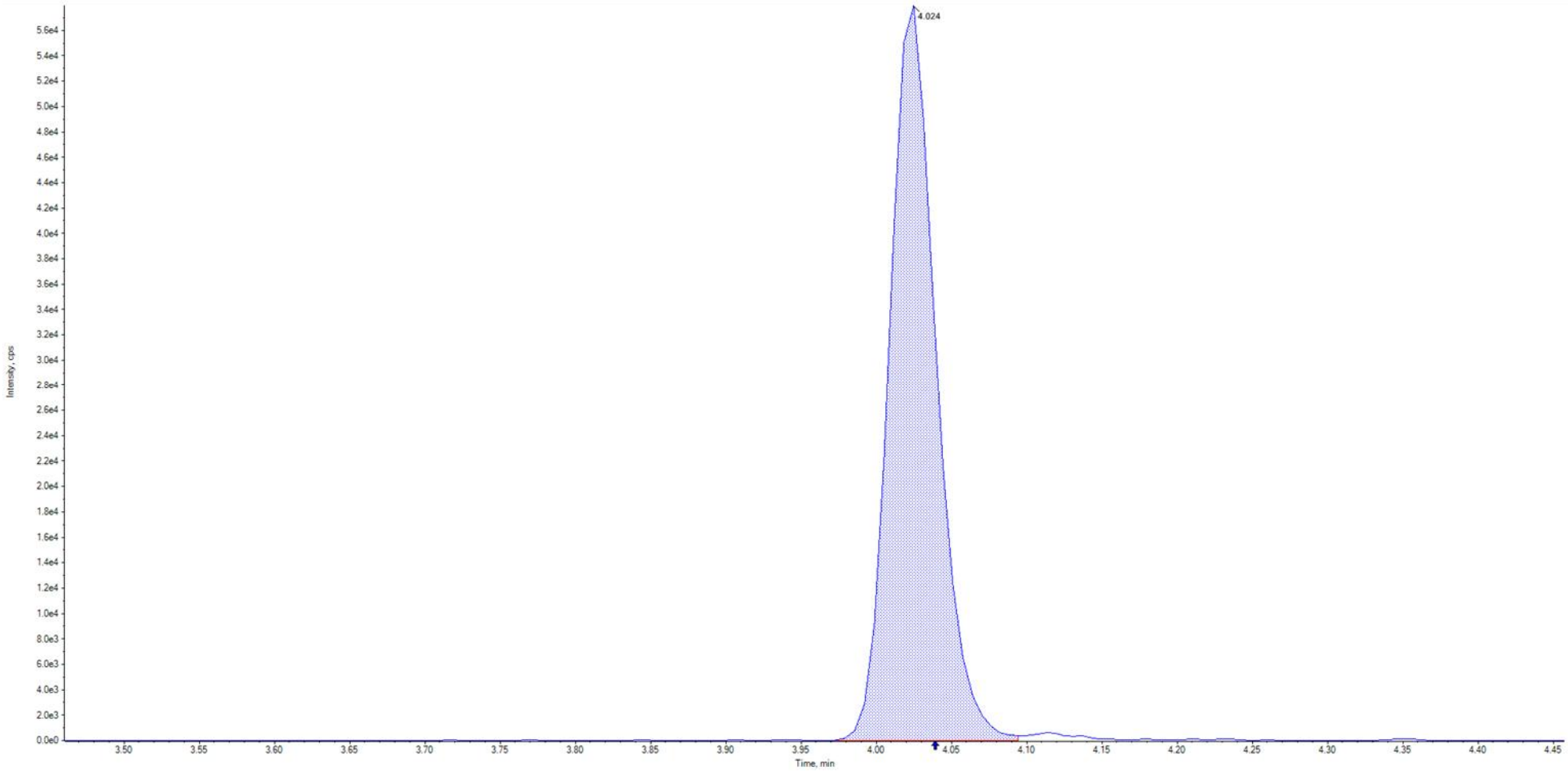
d3-NMeFOSAA
Sample: L2470744-17



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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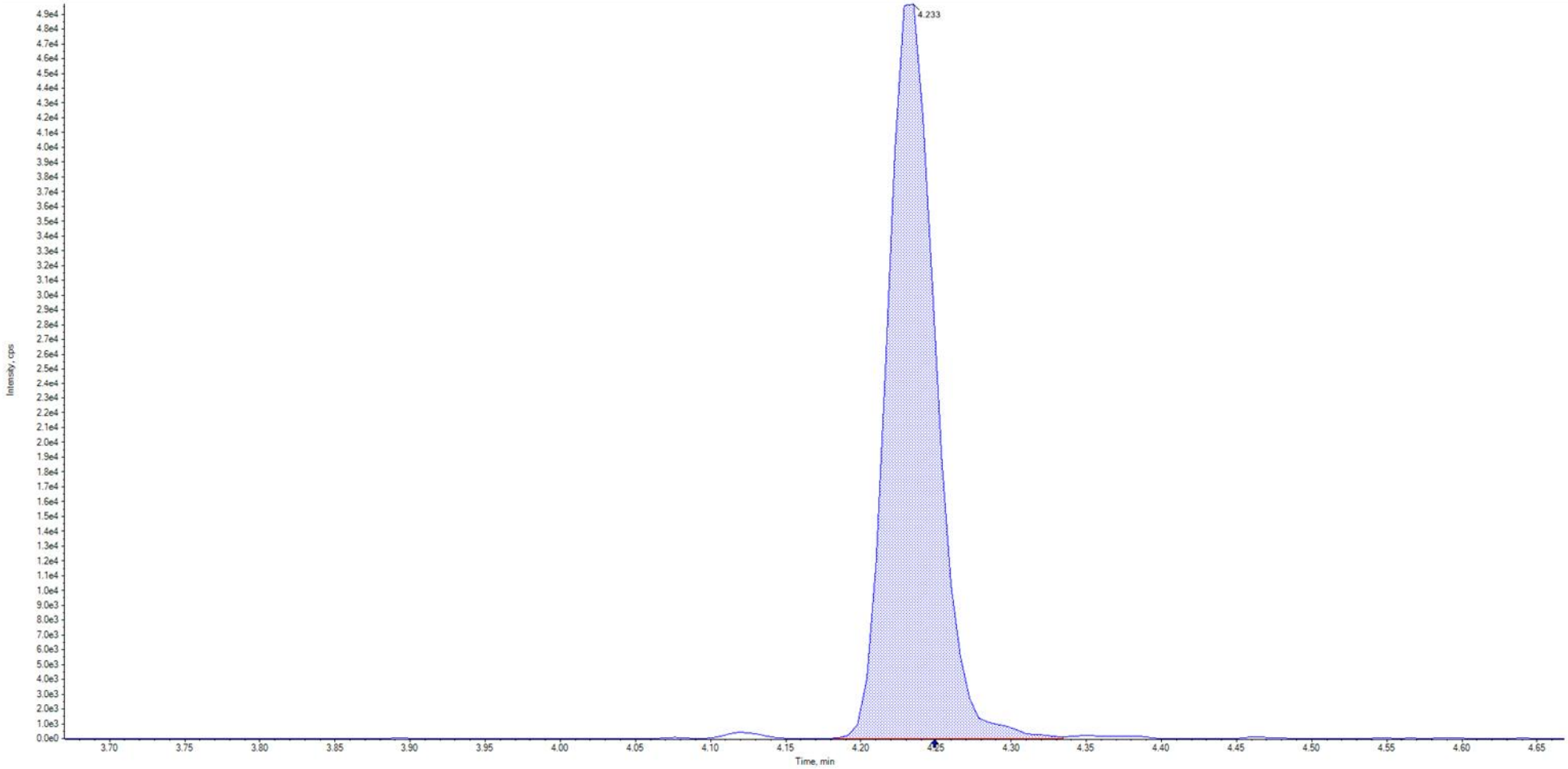
d5-NEtFOSAA
Sample: L2470744-17



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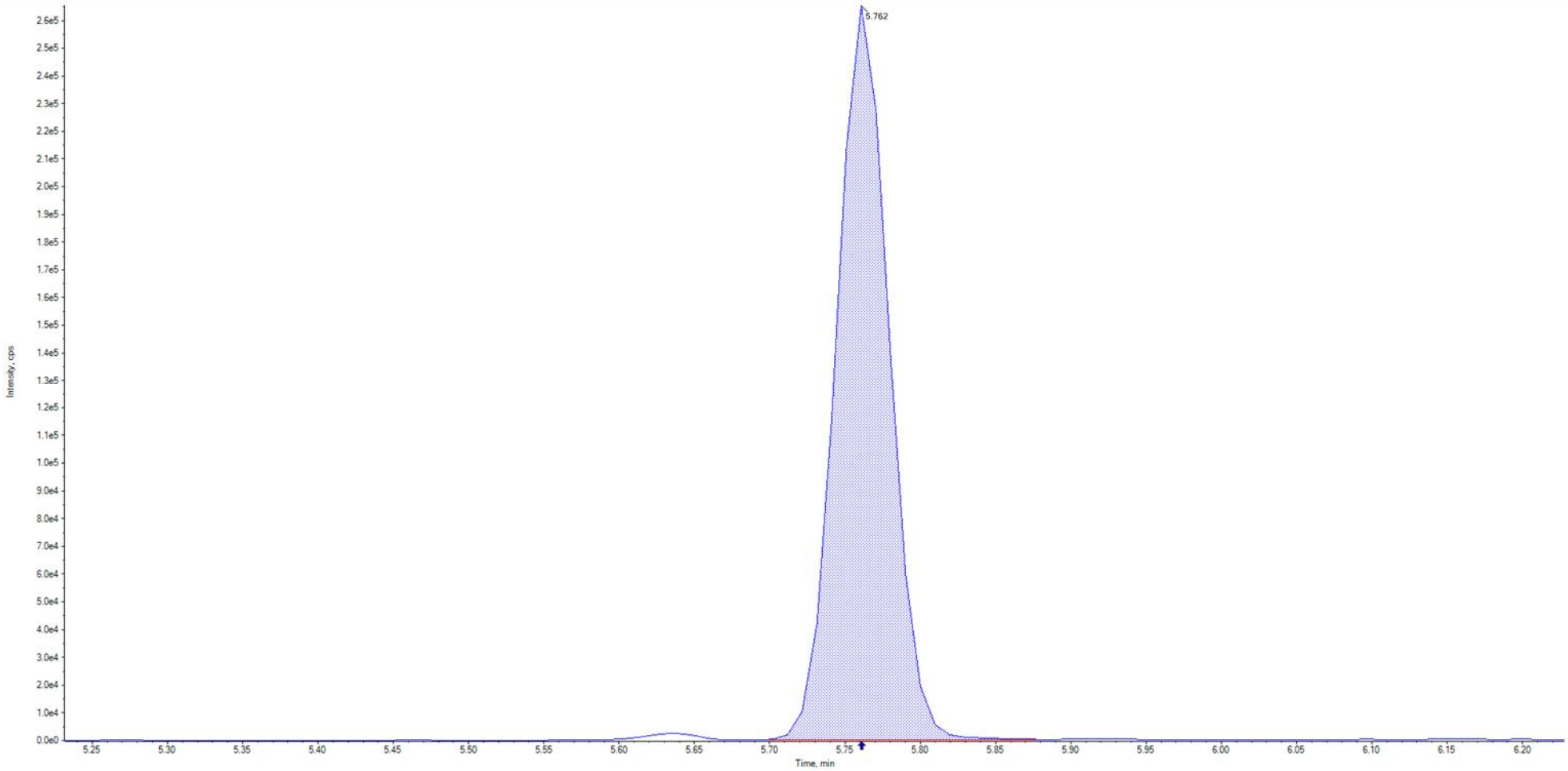
d7-NMeFOSE
Sample: L2470744-17



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Alpha Analytical LLC
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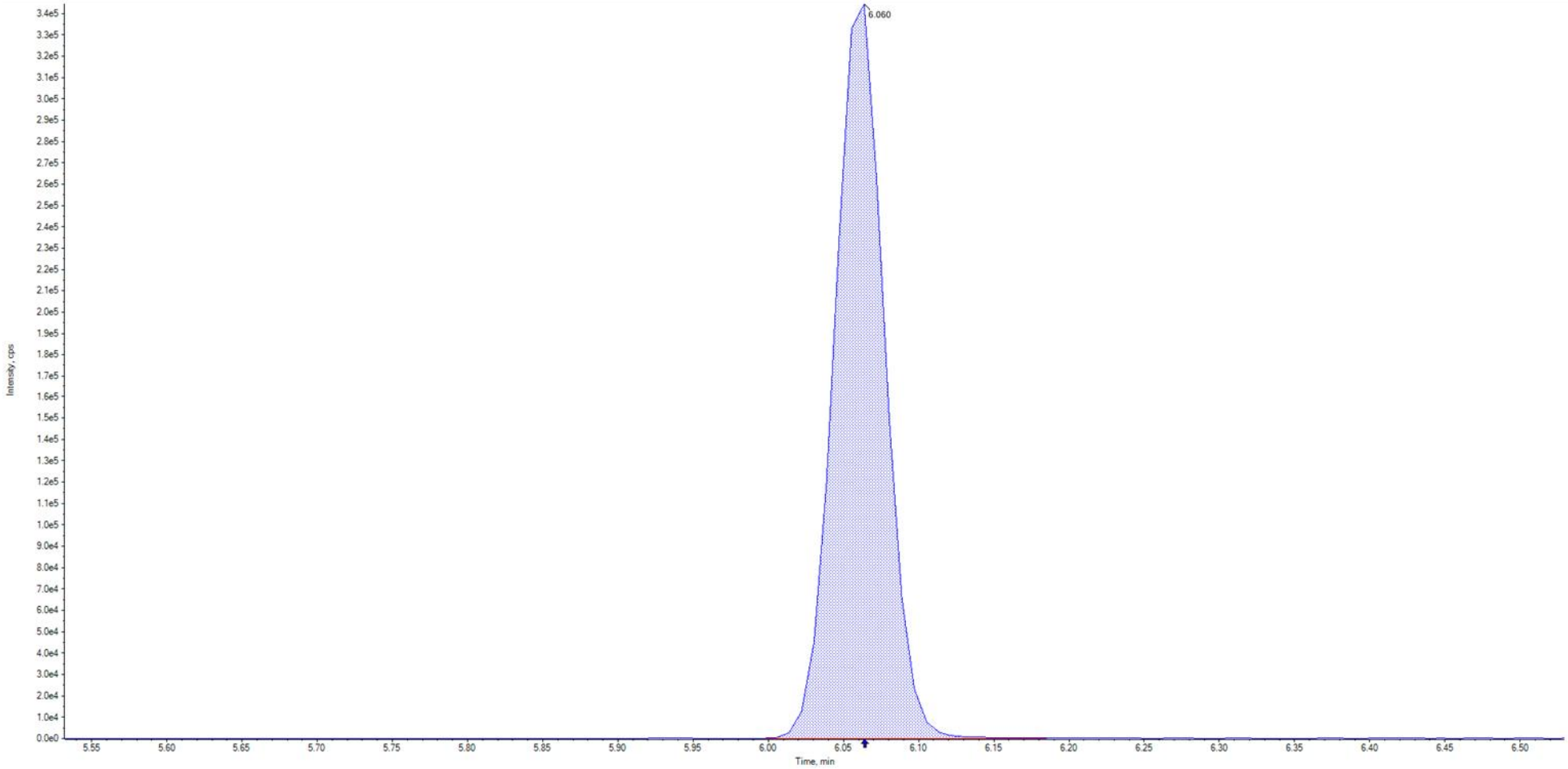
d9-NEtFOSE
Sample: L2470744-17



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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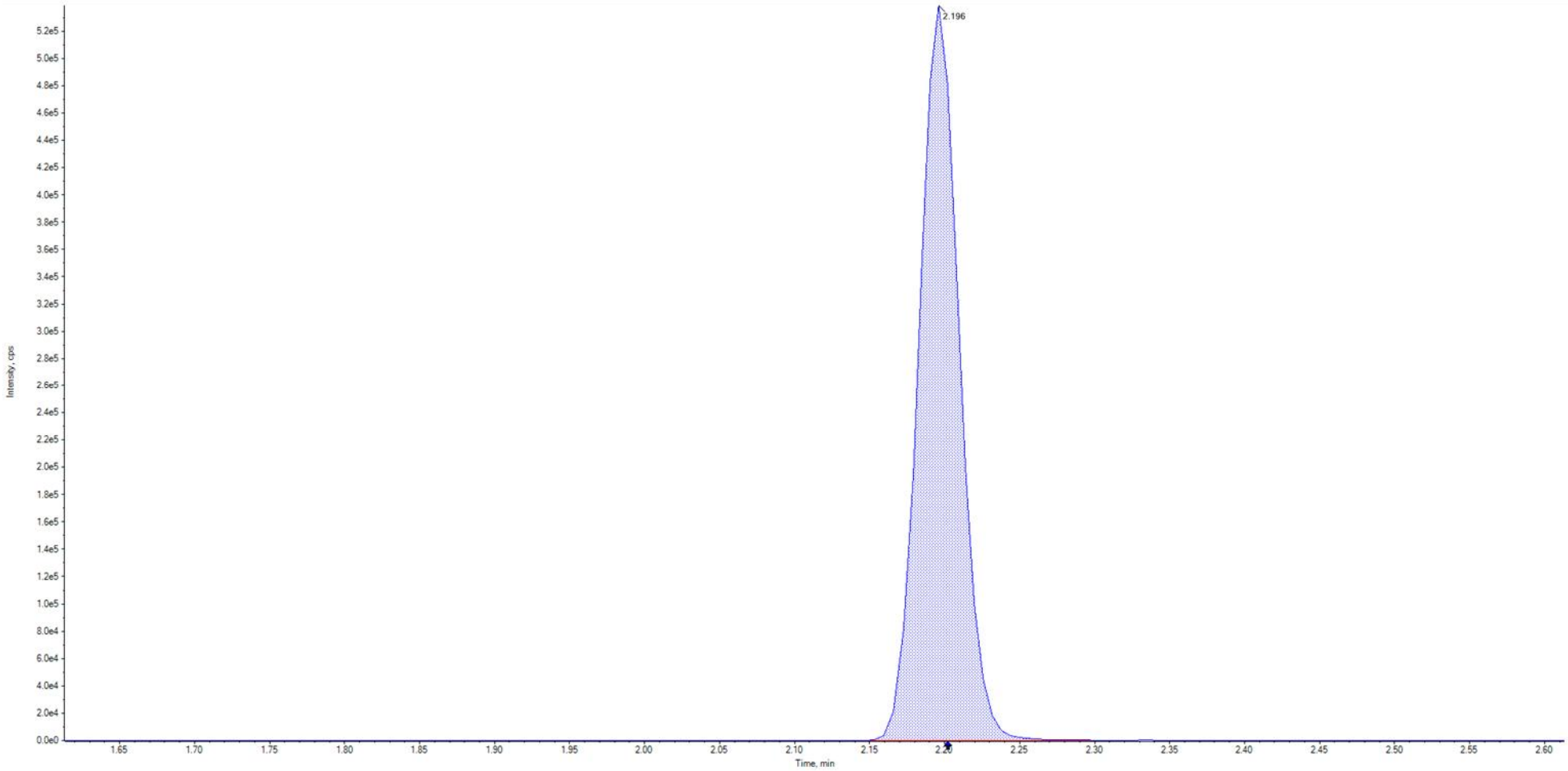
13C3-HFPO-DA
Sample: L2470744-17



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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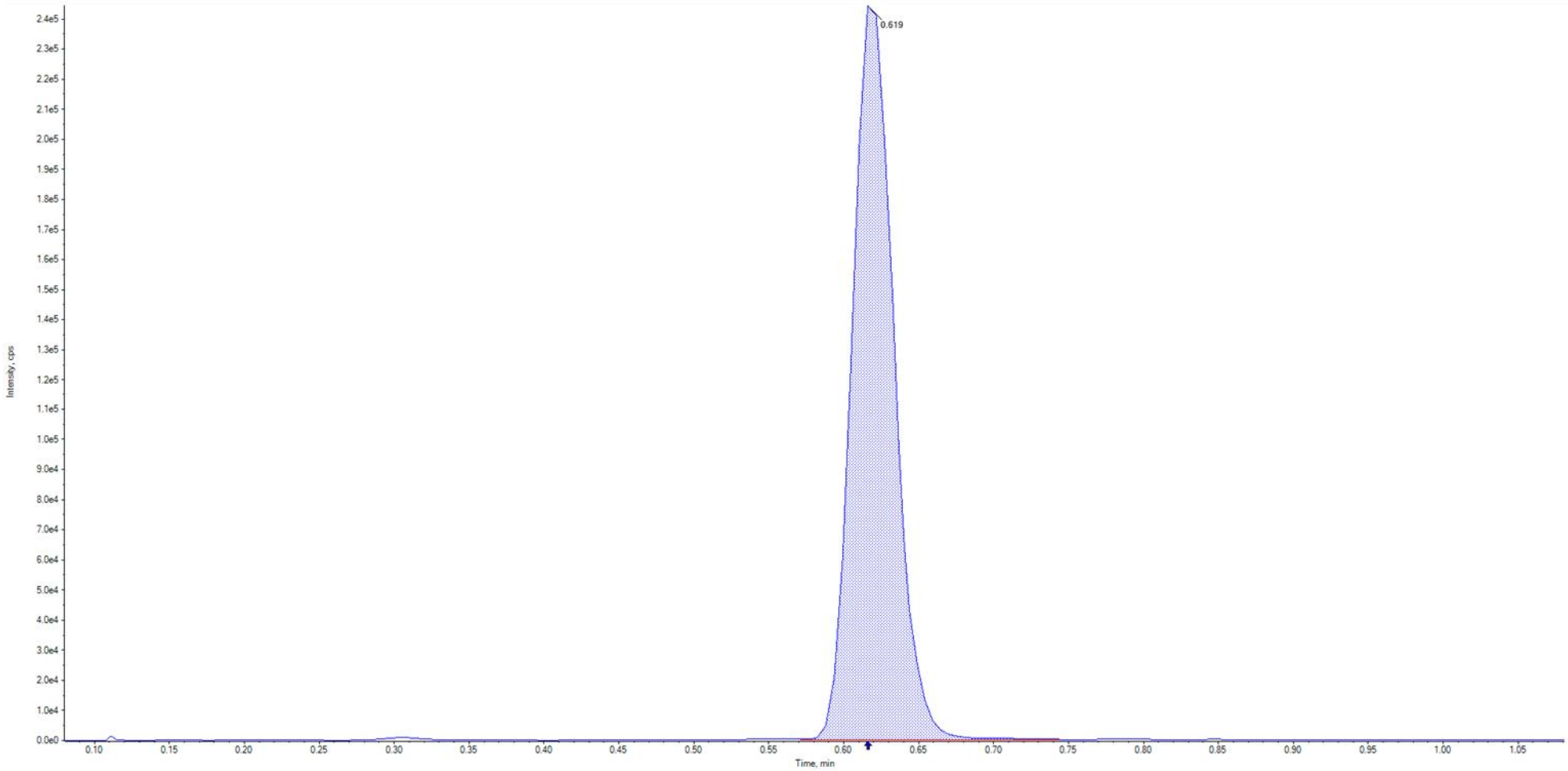
13C3-PFBA
Sample: L2470744-17



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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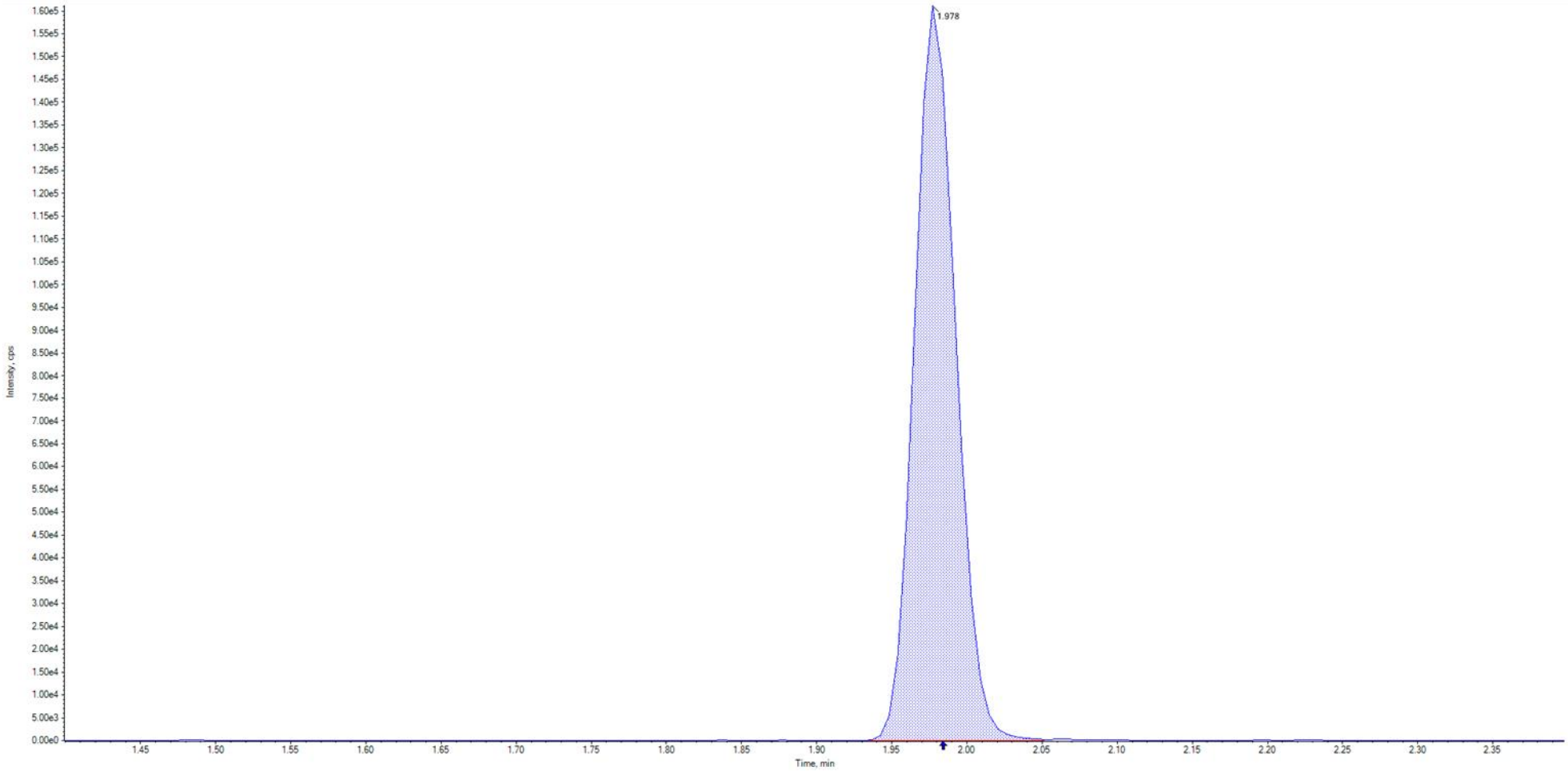
13C2-PFHxA
Sample: L2470744-17



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Alpha Analytical LLC
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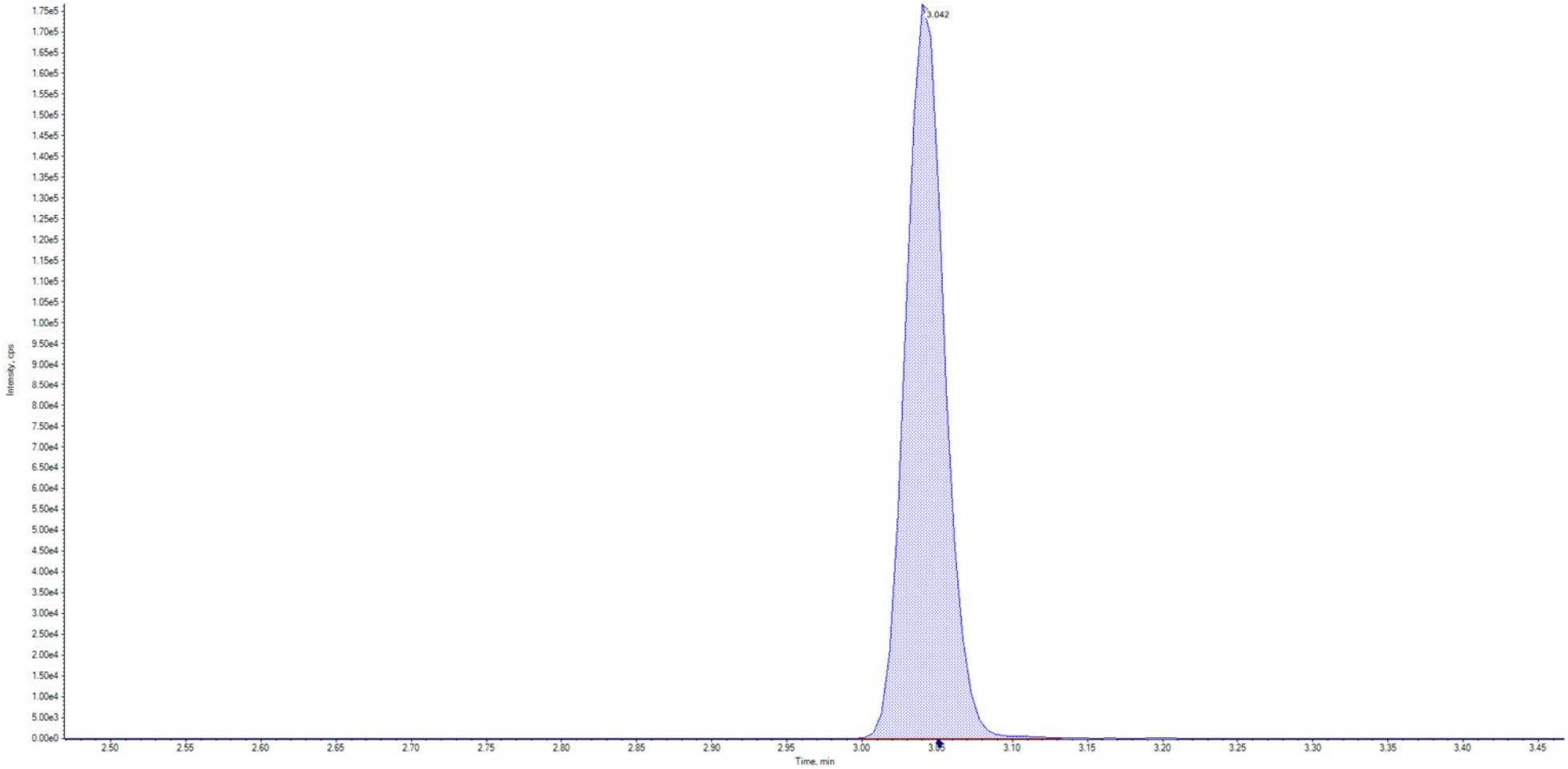
13C4-PFOA
Sample: L2470744-17



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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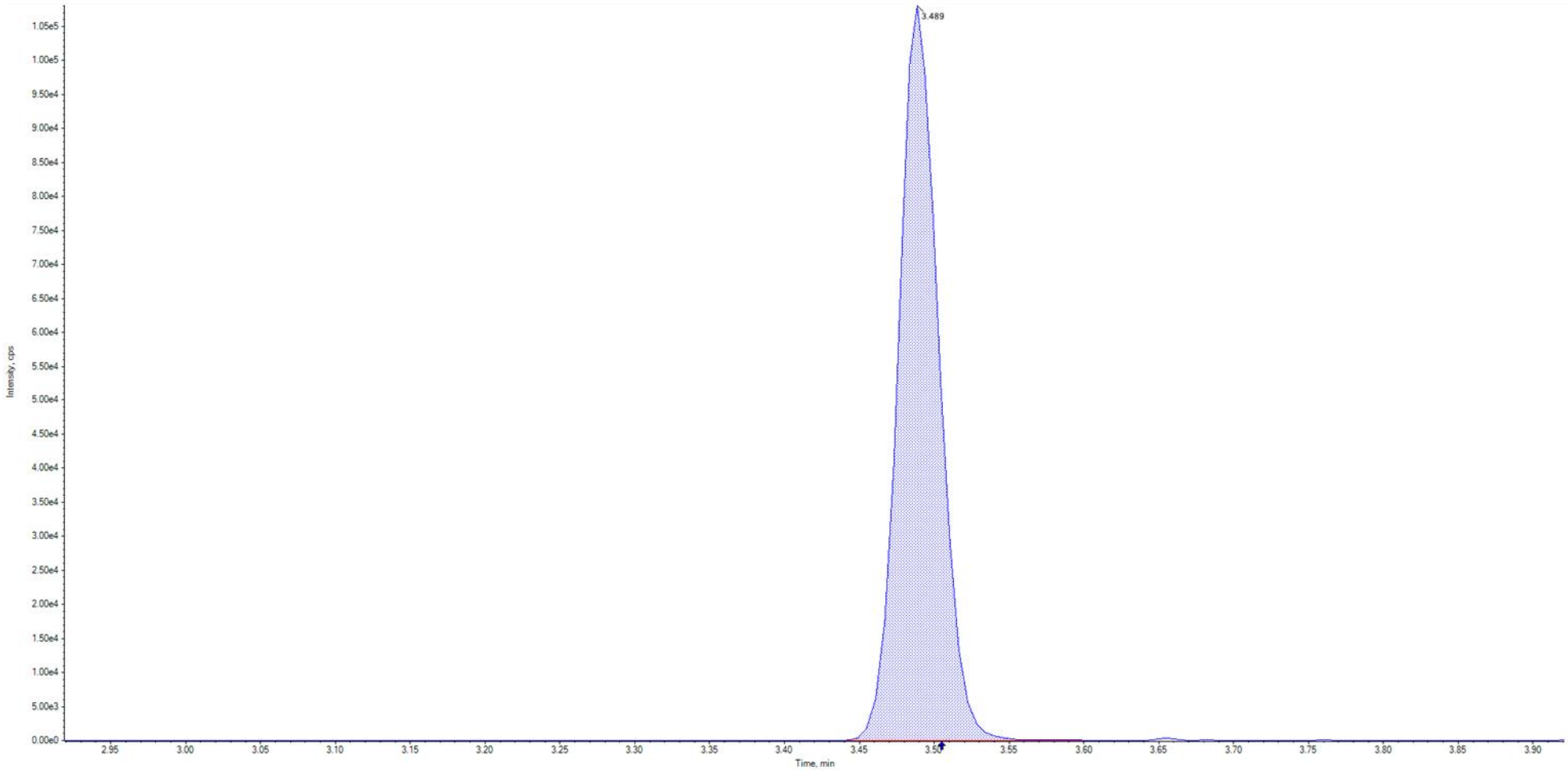
13C5-PFNA
Sample: L2470744-17



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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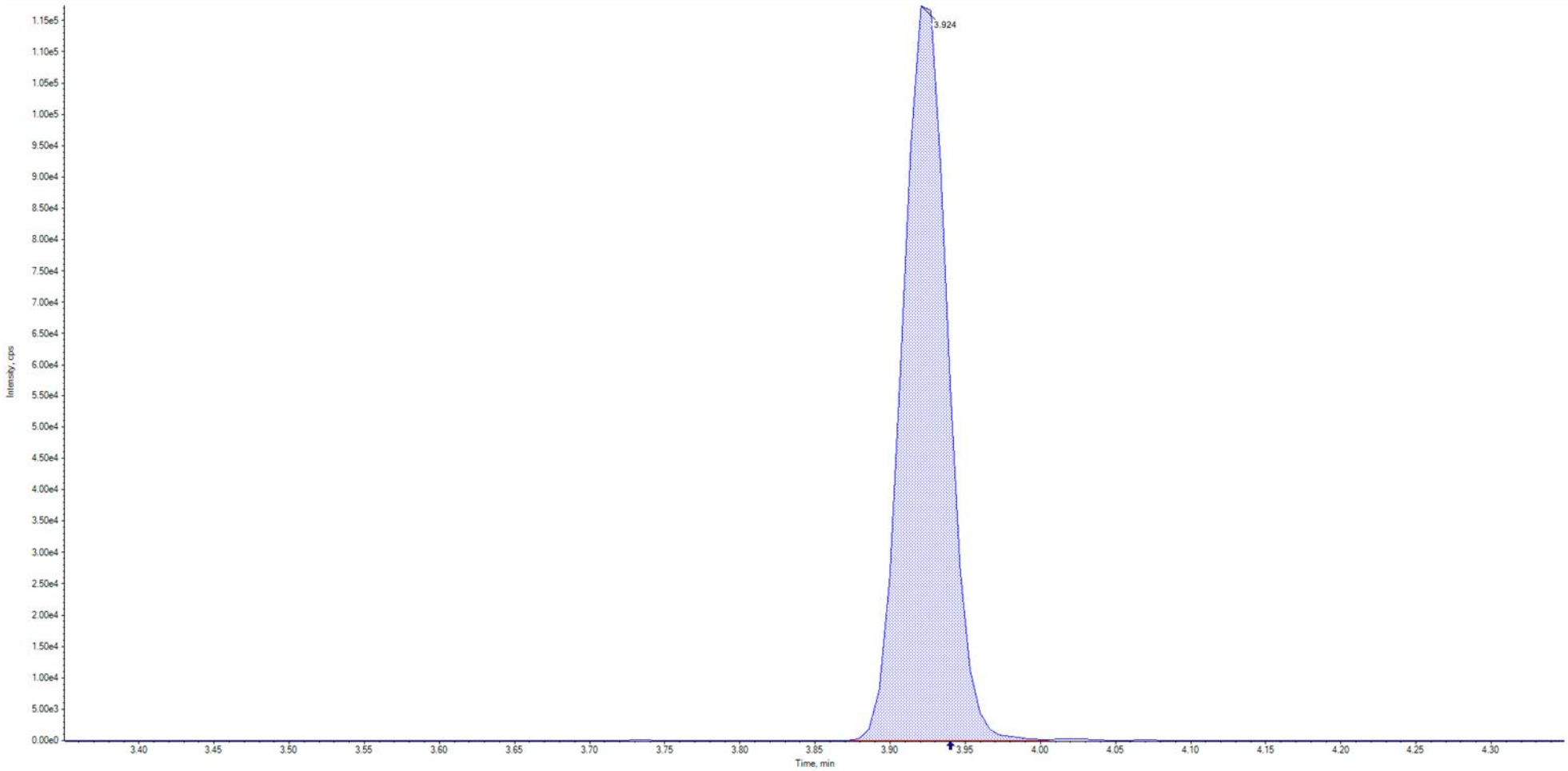
13C2-PFDA
Sample: L2470744-17



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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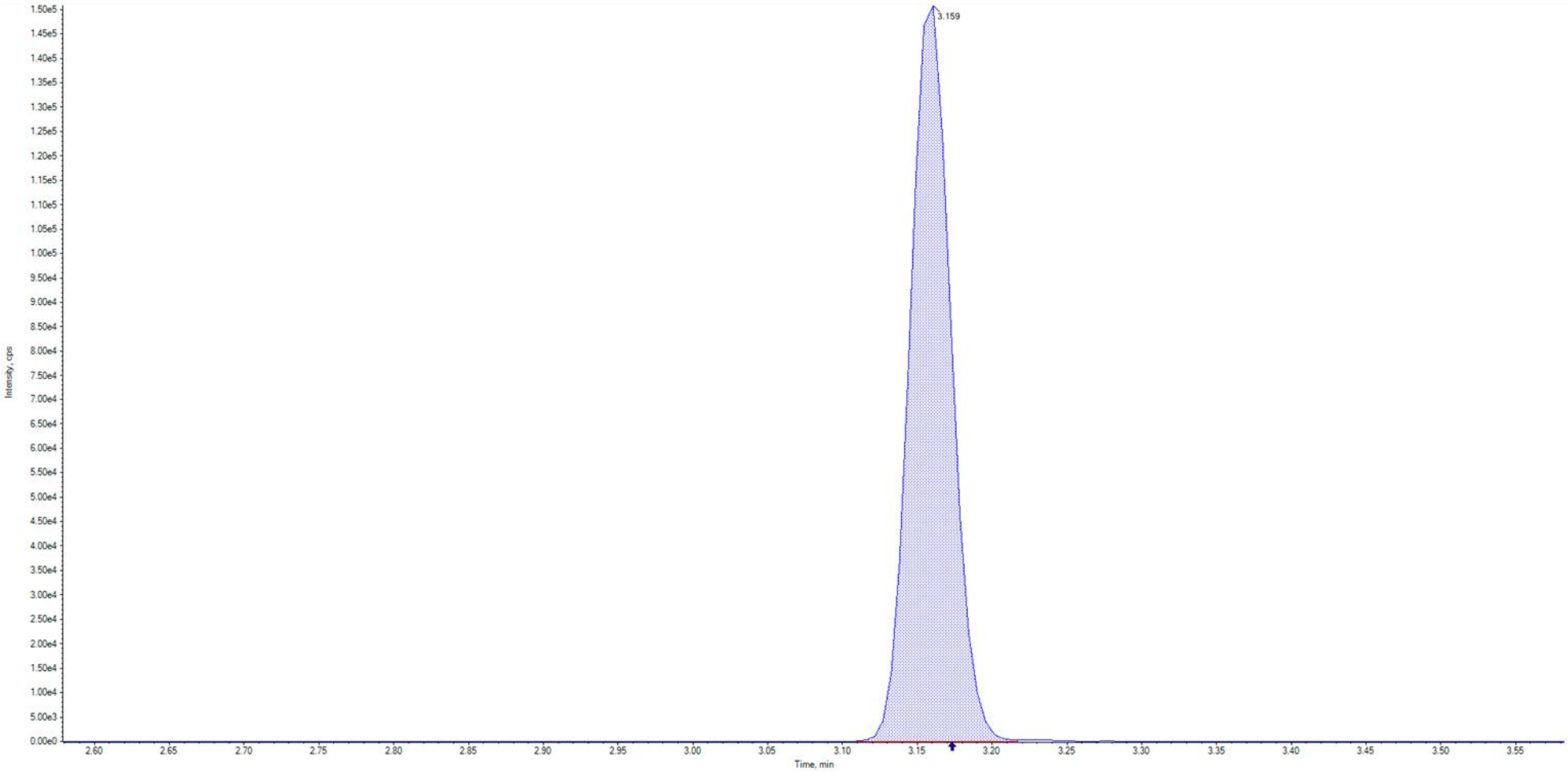
18O2-PFHxS
Sample: L2470744-17



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Alpha Analytical LLC
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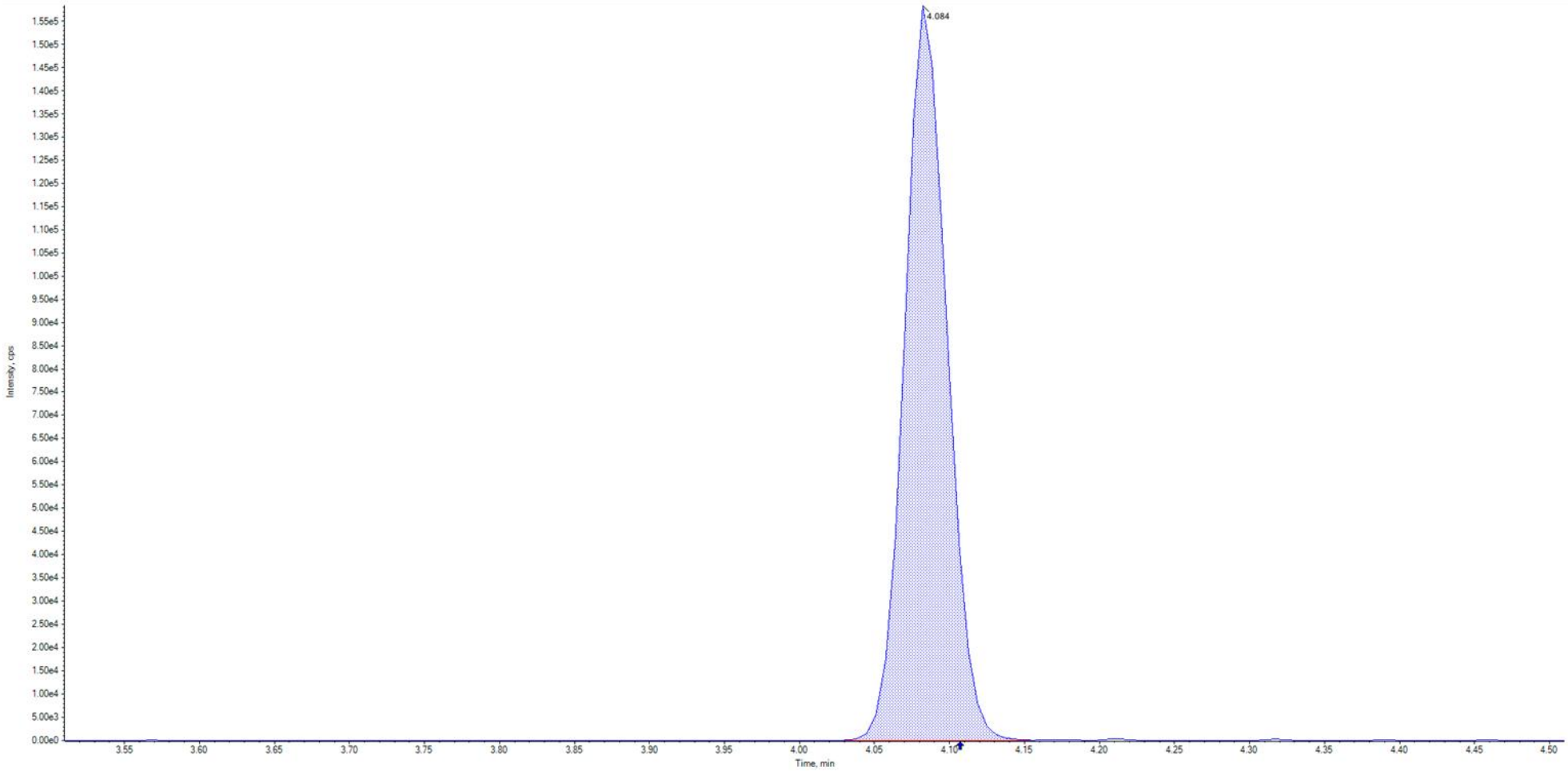
13C4-PFOS
Sample: L2470744-17



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_41.wiff2_8
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Generated: 12/20/2024 10:43:43 AM

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_42.wiff2_9
Last Altered: 12/20/2024 12:41:04 PM
Generated: 12/20/2024 10:43:43 AM

Method: EPA1633F_241217.qmethod
Calibration: 241216_EPA1633_ICAL

ID: L2470744-20
Name: SCI08_241220_42.wiff2
Date & Time: 2024-12-20T11:14:28
Description: WG2011615,WG2010366,ICAL21783
Instrument: SCIEX Triple Quad 5500+
User: LCMS08:AC

LC/MS-MS Method:EPA-1633F

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
1	PFBA	375-22-4	N/A	213.0 / 169.0	N/A		N/A	N/A	N/A	N/A	N/A
2	PFPeA	2706-90-3	N/A	263.0 / 219.0	N/A		N/A	N/A	0.008	N/A	N/A
3	PFPeA_2	2706-90-3	N/A	263.0 / 68.9	N/A		N/A	N/A	0.008	N/A	N/A
4	PFHxA	307-24-4	N/A	313.0 / 269.0	N/A		N/A	N/A	0.084	N/A	N/A
5	PFHxA_2	307-24-4	N/A	313.0 / 119.0	N/A		N/A	N/A	0.084	N/A	N/A
6	PFHpA	375-85-9	N/A	363.1 / 319.0	N/A		N/A	N/A	0.404	N/A	N/A
7	PFHpA_2	375-85-9	N/A	363.1 / 169.0	N/A		N/A	N/A	0.404	N/A	N/A

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_42.wiff2_9
Last Altered: 12/20/2024 12:41:04 PM
Generated: 12/20/2024 10:43:43 AM

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
8	PFOA	335-67-1	N/A	413.1 / 369.1	N/A		N/A	N/A	0.562	N/A	N/A
9	PFOA_2	335-67-1	N/A	413.1 / 169.0	N/A		N/A	N/A	0.562	N/A	N/A
10	PFNA	375-95-1	N/A	462.8 / 418.9	N/A		N/A	N/A	0.464	N/A	N/A
11	PFNA_2	375-95-1	N/A	462.8 / 219.0	N/A		N/A	N/A	0.464	N/A	N/A
12	PFDA	335-76-2	N/A	513.1 / 469.1	N/A		N/A	N/A	0.264	N/A	N/A
13	PFDA_2	335-76-2	N/A	513.1 / 219.0	N/A		N/A	N/A	0.264	N/A	N/A
14	PFUnA	2058-94-8	N/A	563.1 / 519.1	N/A		N/A	N/A	0.204	N/A	N/A
15	PFUnA_2	2058-94-8	N/A	563.1 / 269.0	N/A		N/A	N/A	0.204	N/A	N/A
16	PFDoA	307-55-1	N/A	613.1 / 569.1	N/A		N/A	N/A	0.194	N/A	N/A
17	PFDoA_2	307-55-1	N/A	613.1 / 319.0	N/A		N/A	N/A	0.194	N/A	N/A
18	PFTrDA	72629-94-8	N/A	663.1 / 619.1	N/A		N/A	N/A	0.193	N/A	N/A
19	PFTrDA_2	72629-94-8	N/A	663.1 / 169.0	N/A		N/A	N/A	0.193	N/A	N/A
20	PFTeDA	376-06-7	N/A	713.1 / 669.1	N/A		N/A	N/A	0.163	N/A	N/A
21	PFTeDA_2	376-06-7	N/A	713.1 / 169.0	N/A		N/A	N/A	0.163	N/A	N/A
22	PFBS	375-73-5	N/A	299.1 / 80.1	N/A		N/A	N/A	0.353	N/A	N/A

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_42.wiff2_9
Last Altered: 12/20/2024 12:41:04 PM
Generated: 12/20/2024 10:43:43 AM

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
23	PFBS_2	375-73-5	N/A	299.1 / 99.1	N/A		N/A	N/A	0.353	N/A	N/A
24	PFPeS	2706-91-4	N/A	349.1 / 80.1	N/A		N/A	N/A	0.294	N/A	N/A
25	PFPeS_2	2706-91-4	N/A	349.1 / 99.1	N/A		N/A	N/A	0.294	N/A	N/A
26	PFHxS	355-46-4	N/A	399.1 / 80.1	N/A		N/A	N/A	0.292	N/A	N/A
27	PFHxS_2	355-46-4	N/A	399.1 / 99.1	N/A		N/A	N/A	0.292	N/A	N/A
28	PFHpS	375-92-8	N/A	449.1 / 80.1	N/A		N/A	N/A	0.274	N/A	N/A
29	PFHpS_2	375-92-8	N/A	449.1 / 99.1	N/A		N/A	N/A	0.274	N/A	N/A
30	PFOS	1763-23-1	N/A	499.1 / 80.1	N/A		N/A	N/A	0.223	N/A	N/A
31	PFOS_2	1763-23-1	N/A	499.1 / 99.1	N/A		N/A	N/A	0.223	N/A	N/A
32	PFNS	68259-12-1	N/A	549.1 / 80.1	N/A		N/A	N/A	0.281	N/A	N/A
33	PFNS_2	68259-12-1	N/A	549.1 / 99.1	N/A		N/A	N/A	0.281	N/A	N/A
34	PFDS	335-77-3	N/A	599.1 / 80.1	N/A		N/A	N/A	0.267	N/A	N/A
35	PFDS_2	335-77-3	N/A	599.1 / 99.1	N/A		N/A	N/A	0.267	N/A	N/A
36	PFDoS	79780-39-5	N/A	699.2 / 80.1	N/A		N/A	N/A	0.225	N/A	N/A
37	PFDoS_2	79780-39-5	N/A	699.2 / 99.1	N/A		N/A	N/A	0.225	N/A	N/A

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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
38	4:2FTS	757124-72-4	N/A	327.1 / 307.1	N/A		N/A	N/A	0.637	N/A	N/A
39	4:2FTS_2	757124-72-4	N/A	327.1 / 81.1	N/A		N/A	N/A	0.637	N/A	N/A
40	6:2FTS	27619-97-2	N/A	427.2 / 407.2	N/A		N/A	N/A	0.571	N/A	N/A
41	6:2FTS_2	27619-97-2	N/A	427.2 / 81.1	N/A		N/A	N/A	0.571	N/A	N/A
42	8:2FTS	39108-34-4	N/A	527.2 / 507.2	N/A		N/A	N/A	0.758	N/A	N/A
43	8:2FTS_2	39108-34-4	N/A	527.2 / 81.1	N/A		N/A	N/A	0.758	N/A	N/A
44	PFOSA	754-91-6	N/A	498.1 / 78.1	N/A		N/A	N/A	0.023	N/A	N/A
45	PFOSA_2	754-91-6	N/A	498.1 / 478.0	N/A		N/A	N/A	0.023	N/A	N/A
46	NMeFOSA	31506-32-8	N/A	512.2 / 219.0	N/A		N/A	N/A	1.447	N/A	N/A
47	NMeFOSA_2	31506-32-8	N/A	512.2 / 169.0	N/A		N/A	N/A	1.447	N/A	N/A
48	NEtFOSA	4151-50-2	N/A	526.2 / 219.0	N/A		N/A	N/A	1.299	N/A	N/A
49	NEtFOSA_2	4151-50-2	N/A	526.2 / 169.0	N/A		N/A	N/A	1.299	N/A	N/A
50	NMeFOSAA	2355-31-9	N/A	570.2 / 419.1	N/A		N/A	N/A	0.605	N/A	N/A
51	NMeFOSAA_2	2355-31-9	N/A	570.2 / 483.0	N/A		N/A	N/A	0.605	N/A	N/A
52	NEtFOSAA	2991-50-6	N/A	584.2 / 419.1	N/A		N/A	N/A	0.518	N/A	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
53	NEtFOSAA_2	2991-50-6	N/A	584.2 / 526.2	N/A		N/A	N/A	0.518	N/A	N/A
54	NMeFOSE	24448-09-7	N/A	616.1 / 58.9	N/A		N/A	N/A	N/A	N/A	N/A
55	NEtFOSE	1691-99-2	N/A	630.0 / 58.9	N/A		N/A	N/A	N/A	N/A	N/A
56	HFPO-DA	13252-13-6	N/A	285.0 / 169.0	N/A		N/A	N/A	0.474	N/A	N/A
57	HFPO-DA_2	13252-13-6	N/A	285.0 / 184.9	N/A		N/A	N/A	0.474	N/A	N/A
58	ADONA	919005-14-4	N/A	376.9 / 251.0	N/A		N/A	N/A	0.740	N/A	N/A
59	ADONA_2	919005-14-4	N/A	376.9 / 84.8	N/A		N/A	N/A	0.740	N/A	N/A
60	9Cl-PF3ONS	756426-58-1	N/A	530.8 / 351.1	N/A		N/A	N/A	0.340	N/A	N/A
61	9Cl-PF3ONS_2	756426-58-1	N/A	532.8 / 353.0	N/A		N/A	N/A	0.340	N/A	N/A
62	11Cl-PF3OUdS	763051-92-9	N/A	630.9 / 451.0	N/A		N/A	N/A	0.328	N/A	N/A
63	11Cl-PF3OUdS_2	763051-92-9	N/A	632.9 / 452.9	N/A		N/A	N/A	0.328	N/A	N/A
64	3:3FTCA	356-02-5	N/A	241.1 / 177.1	N/A		N/A	N/A	0.996	N/A	N/A
65	3:3FTCA_2	356-02-5	N/A	241.1 / 117.0	N/A		N/A	N/A	0.996	N/A	N/A
66	5:3FTCA	914637-49-3	N/A	341.1 / 237.1	N/A		N/A	N/A	1.037	N/A	N/A
67	5:3FTCA_2	914637-49-3	N/A	341.1 / 217.0	N/A		N/A	N/A	1.037	N/A	N/A

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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
68	7:3FTCA	812-70-4	N/A	441.1 / 316.9	N/A		N/A	N/A	1.181	N/A	N/A
69	7:3FTCA_2	812-70-4	N/A	441.1 / 337.1	N/A		N/A	N/A	1.181	N/A	N/A
70	PFEESA	113507-82-7	N/A	315.1 / 135.0	N/A		N/A	N/A	0.078	N/A	N/A
71	PFEESA_2	113507-82-7	N/A	315.1 / 82.9	N/A		N/A	N/A	0.078	N/A	N/A
72	PFMPA	377-73-1	N/A	229.0 / 85.0	N/A		N/A	N/A	N/A	N/A	N/A
73	PFMBA	863090-89-5	N/A	279.0 / 85.0	N/A		N/A	N/A	N/A	N/A	N/A
74	NFDHA	151772-58-6	N/A	295.0 / 201.0	N/A		N/A	N/A	0.765	N/A	N/A
75	NFDHA_2	151772-58-6	N/A	295.0 / 84.9	N/A		N/A	N/A	0.765	N/A	N/A
76	TDCA	516-50-7	N/A	499.1 / 124.1	N/A		N/A	N/A	5.845	N/A	N/A
77	TDCA_2	516-50-7	N/A	499.1 / 79.9	N/A		N/A	N/A	5.845	N/A	N/A
78	13C2D4-4:2FTS	Surr	N/A	333.2 / 312.1	N/A		N/A	N/A	N/A	N/A	N/A
79	13C2-PFOA	Surr	N/A	415.0 / 370.0	N/A		N/A	N/A	N/A	N/A	N/A

	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C4-PFBA	EIS	0.62	217.0 / 172.0	952954		9.508	NA	NA	NA	95.1

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Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
13C5-PFPeA	EIS	1.21	268.0 / 223.0	411022		5.065	NA	NA	NA	101.3
13C5-PFHxA	EIS	1.98	318.0 / 273.0	235368		2.342	NA	NA	NA	93.7
13C4-PFHpA	EIS	2.56	367.0 / 322.0	297225		2.344	NA	NA	NA	93.7
13C8-PFOA	EIS	3.04	420.8 / 376.0	328041		2.273	NA	NA	NA	90.9
13C9-PFNA	EIS	3.49	472.0 / 427.0	159642		1.181	NA	NA	NA	94.5
13C6-PFDA	EIS	3.92	519.0 / 474.0	206221		1.121	NA	NA	NA	89.7
13C7-PFUnA	EIS	4.34	570.0 / 525.0	198839		1.017	NA	NA	NA	81.4

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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C2-PFDoA	EIS	4.75	615.1 / 570.0	179423		1.116	NA	NA	NA	89.3
	13C2-PFTeDA	EIS	5.54	715.1 / 670.1	166948		0.884	NA	NA	NA	70.7
	13C3-PFBS	EIS	1.99	302.1 / 80.1	350236		2.293	NA	NA	NA	98.4
	13C3-PFHxS	EIS	3.16	402.1 / 80.1	287221		2.217	NA	NA	NA	93.5
	13C8-PFOS	EIS	4.09	507.1 / 80.1	356498		2.046	NA	NA	NA	85.2
	13C2-4:2FTS	EIS	1.76	329.1 / 81.1	62850		4.362	NA	NA	NA	93.0
	13C2-6:2FTS	EIS	2.85	429.2 / 81.1	62403		4.544	NA	NA	NA	95.5
	13C2-8:2FTS	EIS	3.73	529.2 / 81.1	71306		3.683	NA	NA	NA	76.7

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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C8-PFOSA	EIS	5.18	506.1 / 78.1	512101		2.046	NA	NA	NA	81.8
	d3-NMeFOSA	EIS	5.91	515.2 / 219.0	73608		1.876	NA	NA	NA	75.0
	d5-NEtFOSA	EIS	6.21	531.2 / 219.0	74383		1.915	NA	NA	NA	76.6
	d3-NMeFOSAA	EIS	4.02	573.2 / 419.1	119682		3.816	NA	NA	NA	76.3
	d5-NEtFOSAA	EIS	4.23	589.3 / 419.1	104235		3.965	NA	NA	NA	79.3
	d7-NMeFOSE	EIS	5.76	623.2 / 58.9	636399		22.601	NA	NA	NA	90.4
	d9-NEtFOSE	EIS	6.06	639.2 / 58.9	800096		22.971	NA	NA	NA	91.9

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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec
	13C3-HFPO-DA	EIS	2.20	287.0 / 169.0	948269		10.283	NA	NA	NA	102.8
	13C3-PFBA	NIS	0.62	216.0 / 172.0	439956		4.458	NA	NA	NA	89.2
	13C2-PFHxA	NIS	1.98	315.0 / 270.0	268691		1.964	NA	NA	NA	78.6
	13C4-PFOA	NIS	3.04	417.0 / 372.0	279854		1.917	NA	NA	NA	76.7
	13C5-PFNA	NIS	3.49	468.0 / 423.0	170157		0.917	NA	NA	NA	73.3
	13C2-PFDA	NIS	3.92	515.1 / 470.1	220905		0.970	NA	NA	NA	77.6
	18O2-PFHxS	NIS	3.16	403.1 / 84.1	266769		1.744	NA	NA	NA	73.6
	13C4-PFOS	NIS	4.08	503.1 / 80.1	320276		1.883	NA	NA	NA	78.5

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	Analyte Name	CAS	RT	Trace	Area	M Flag	Conc (ng/mL)	Ion Ratio	Expected Ratio	Ion Q	%Rec

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PFBA
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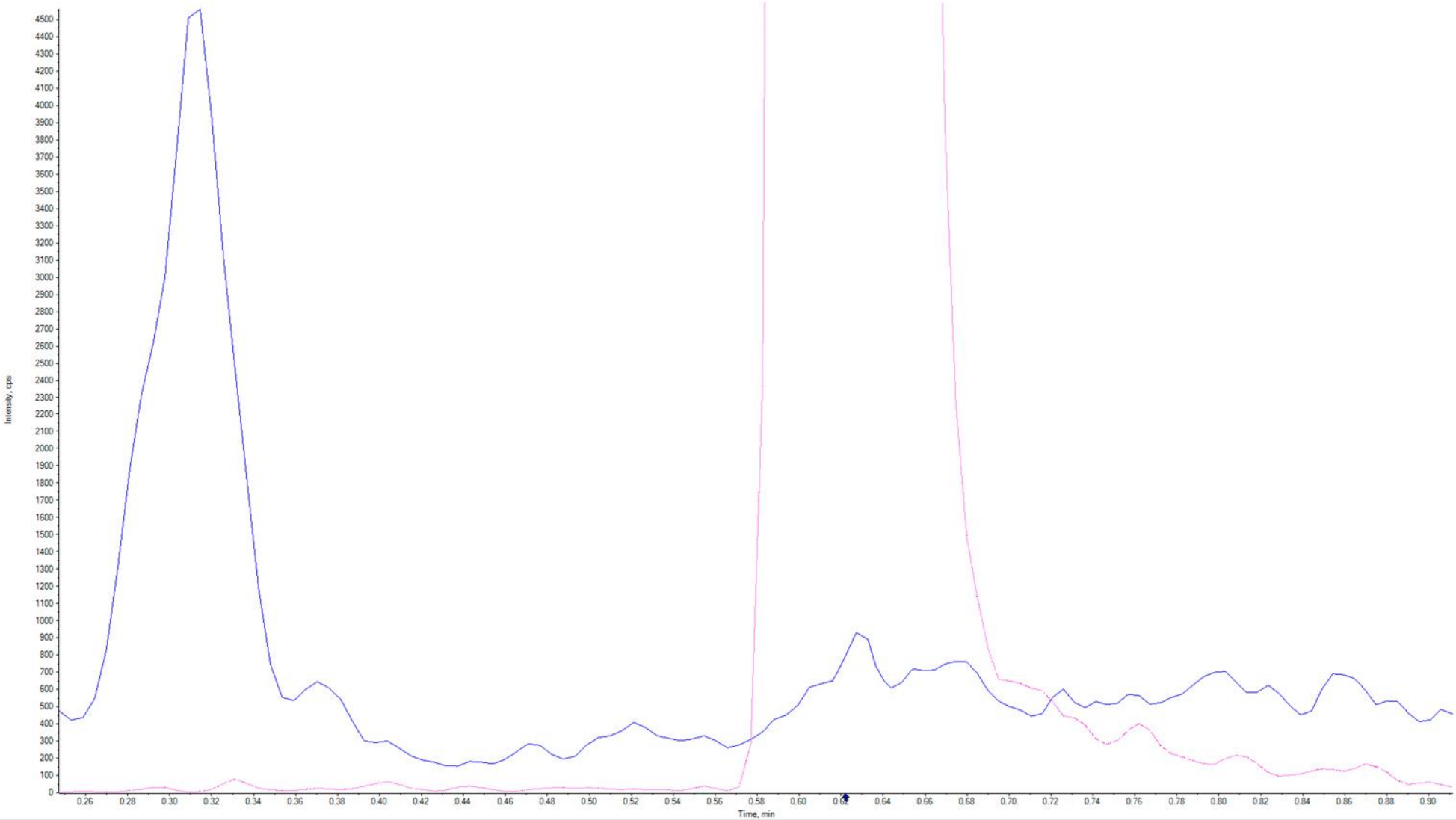

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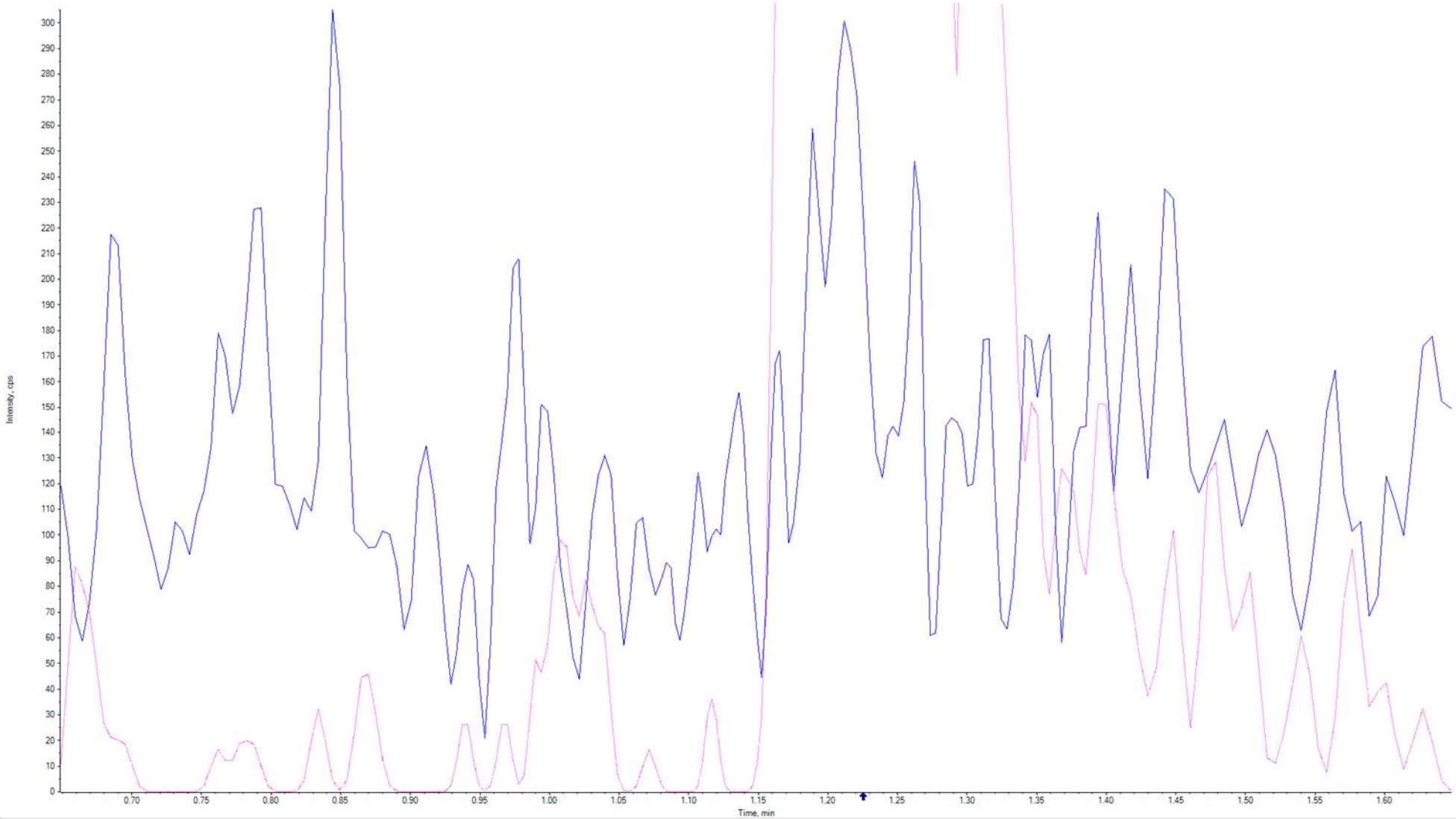
PFPeA
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



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PFPeA_2
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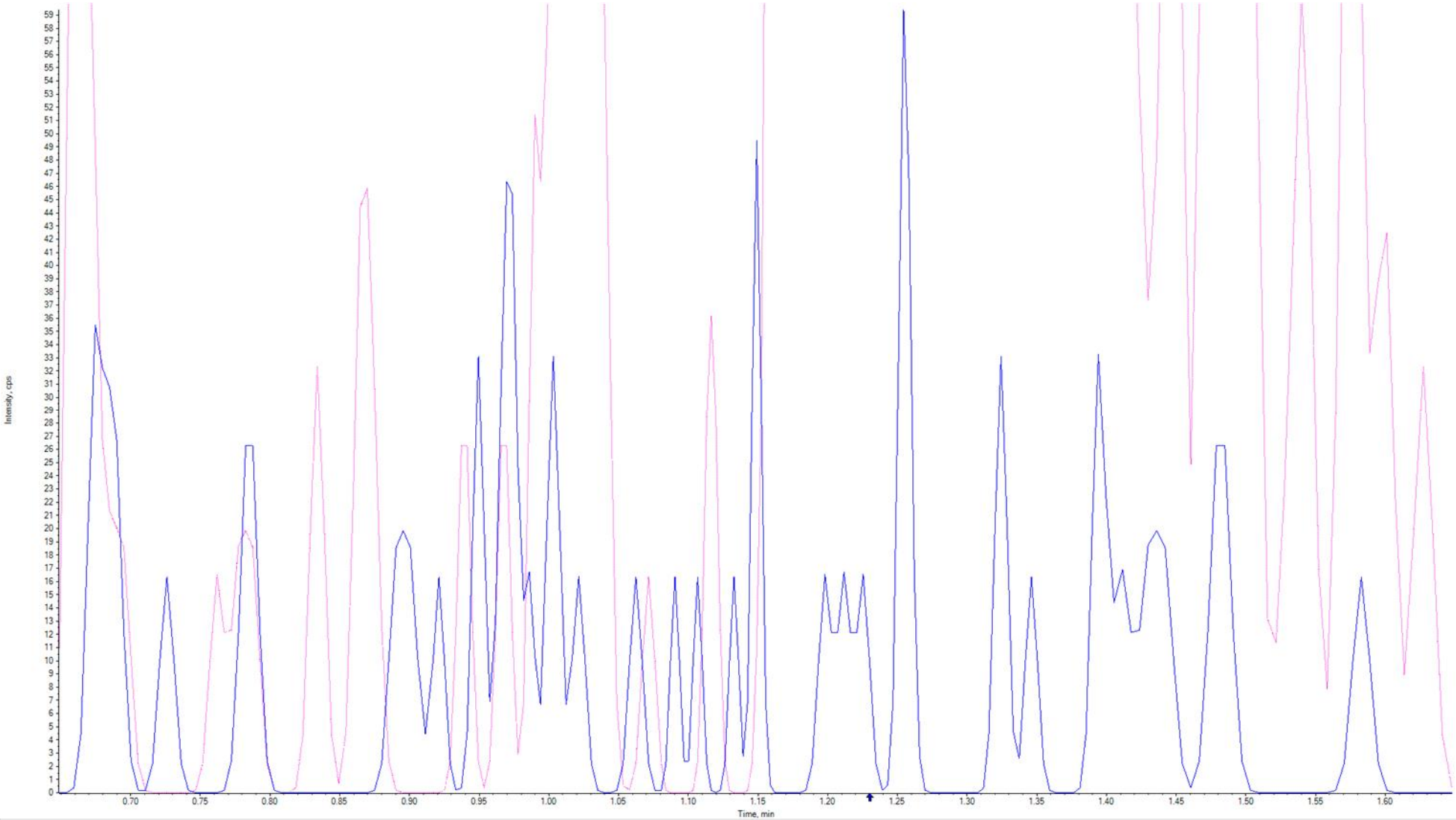

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PFHxA
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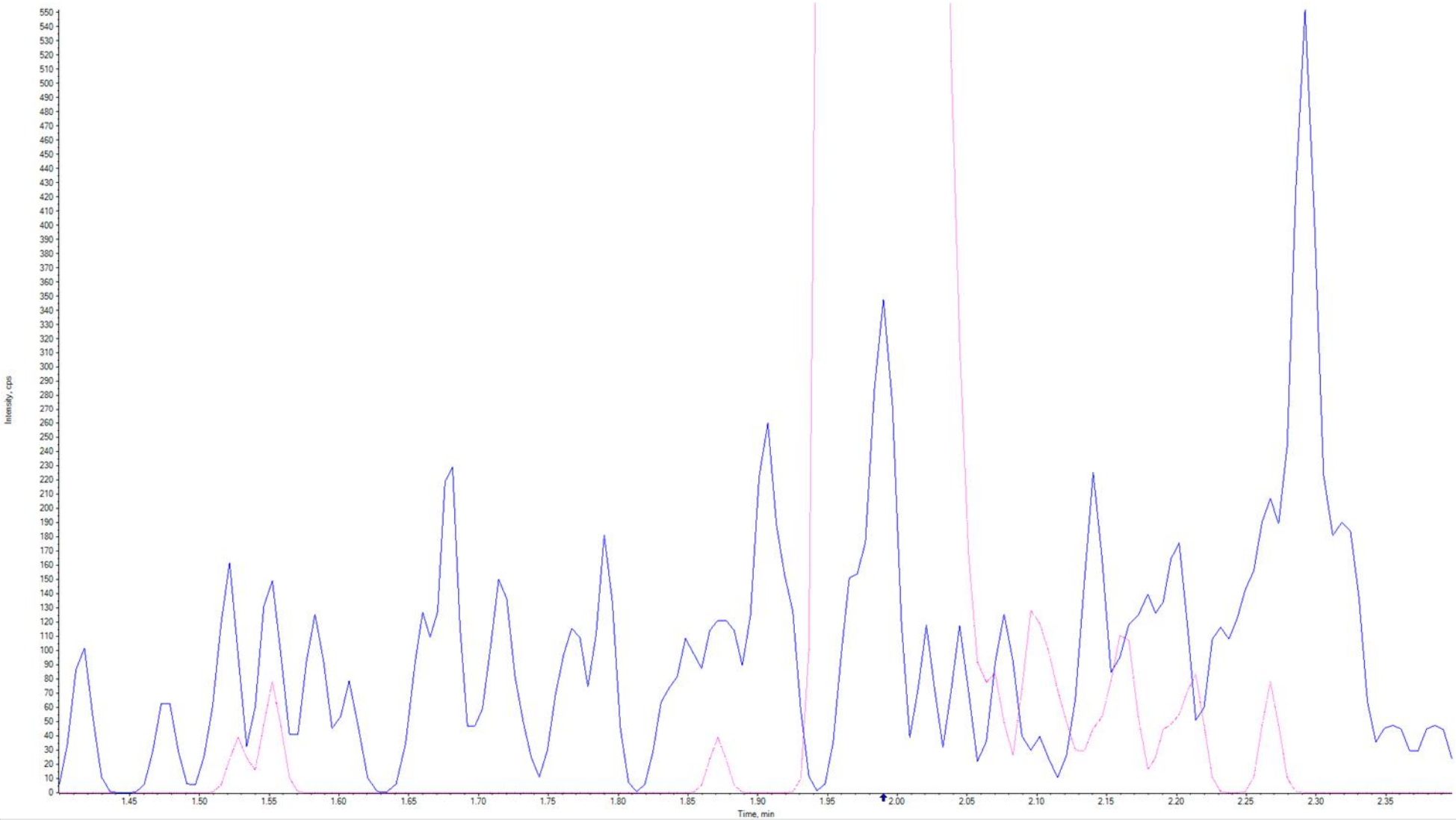

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PFHxA_2
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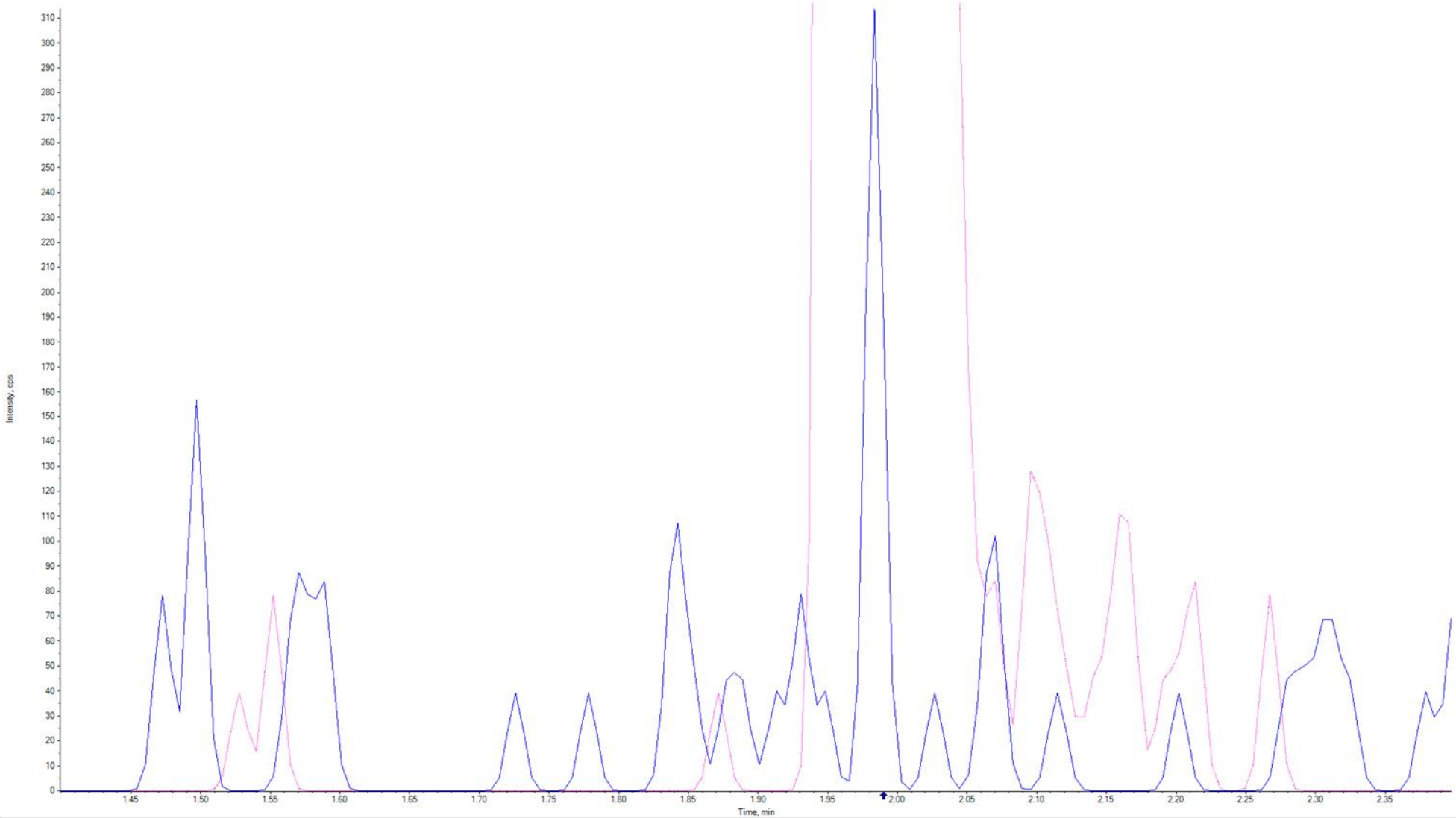

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PFHpA
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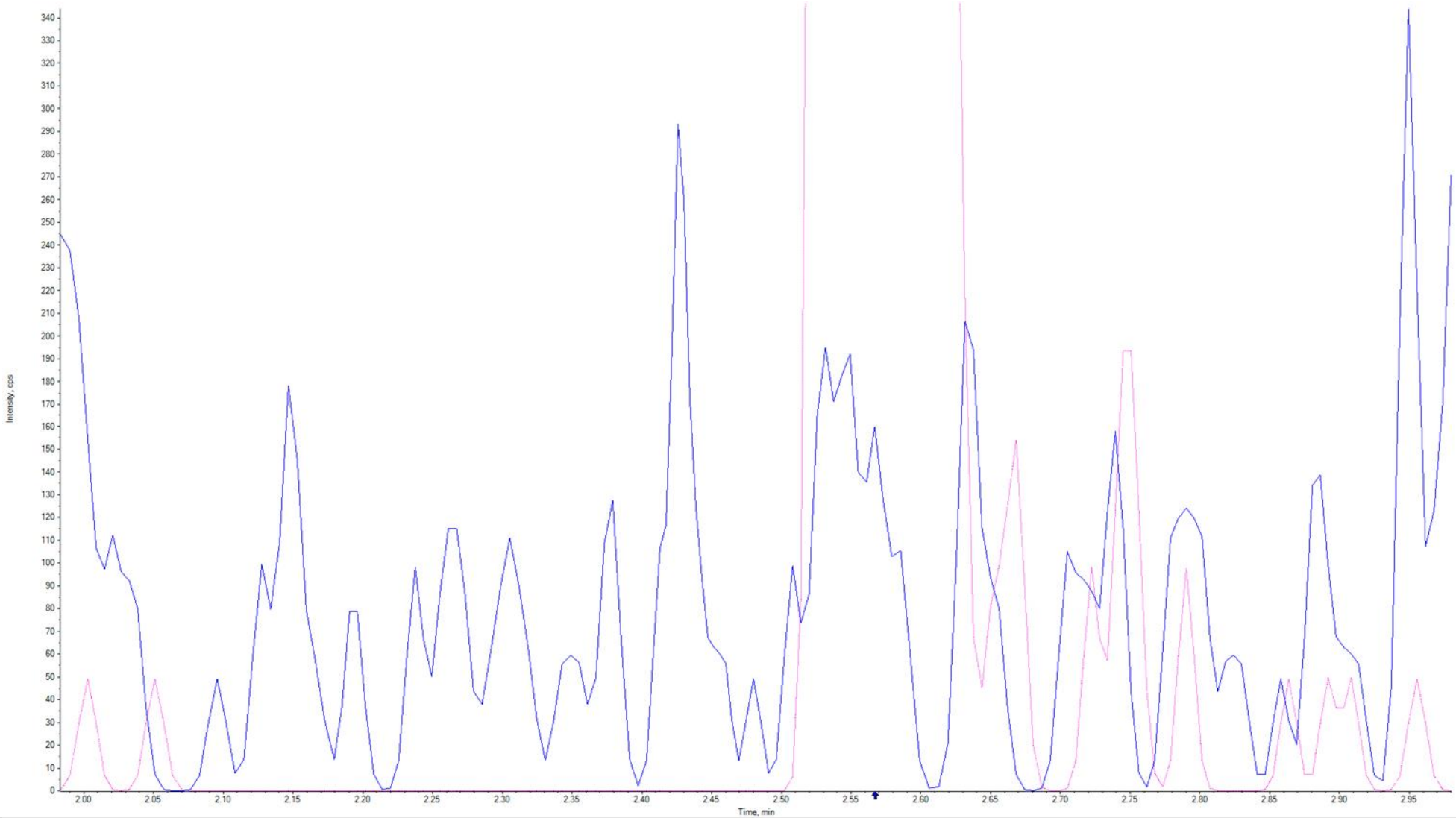

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PFHpA_2
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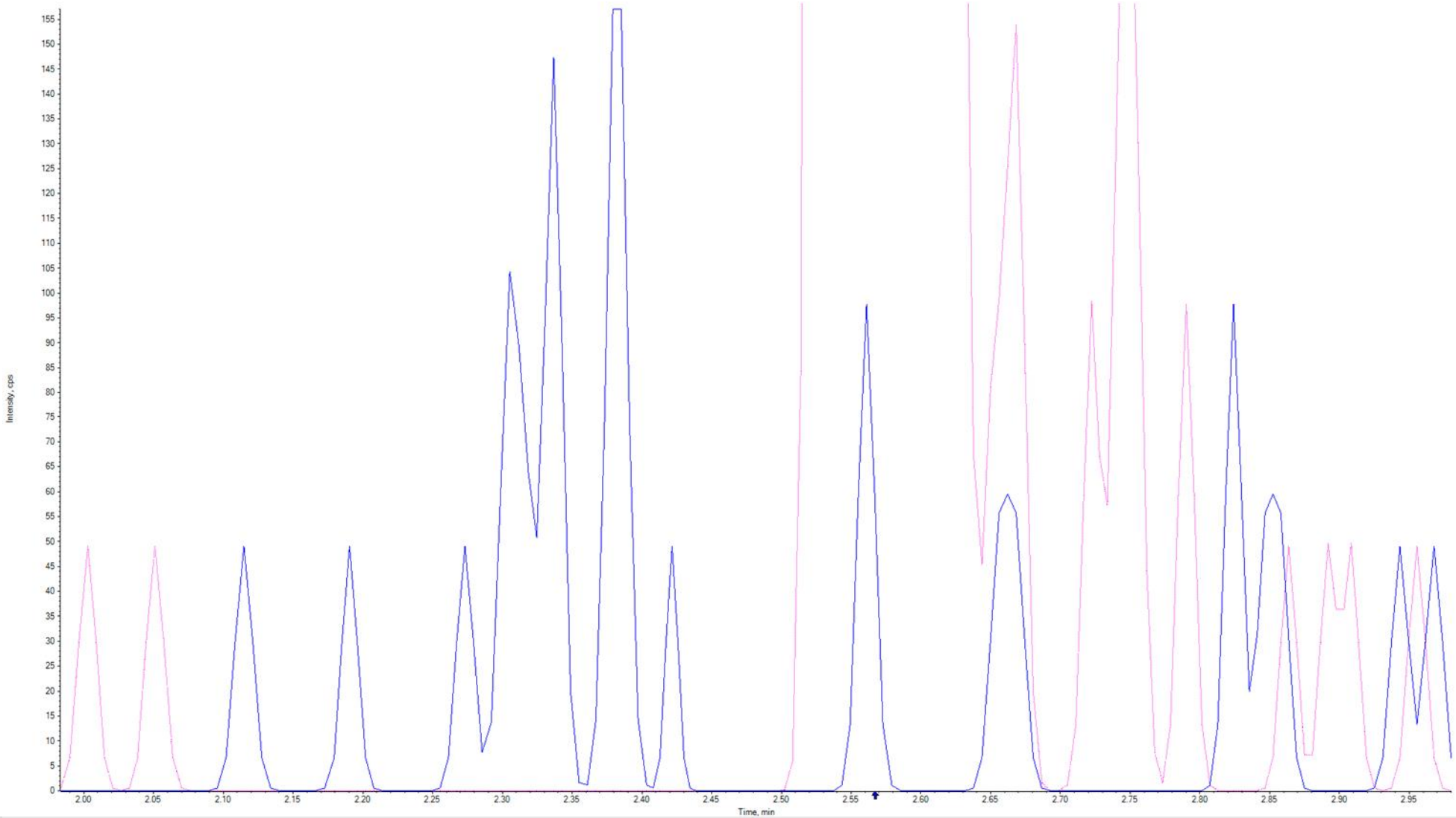

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PFOA
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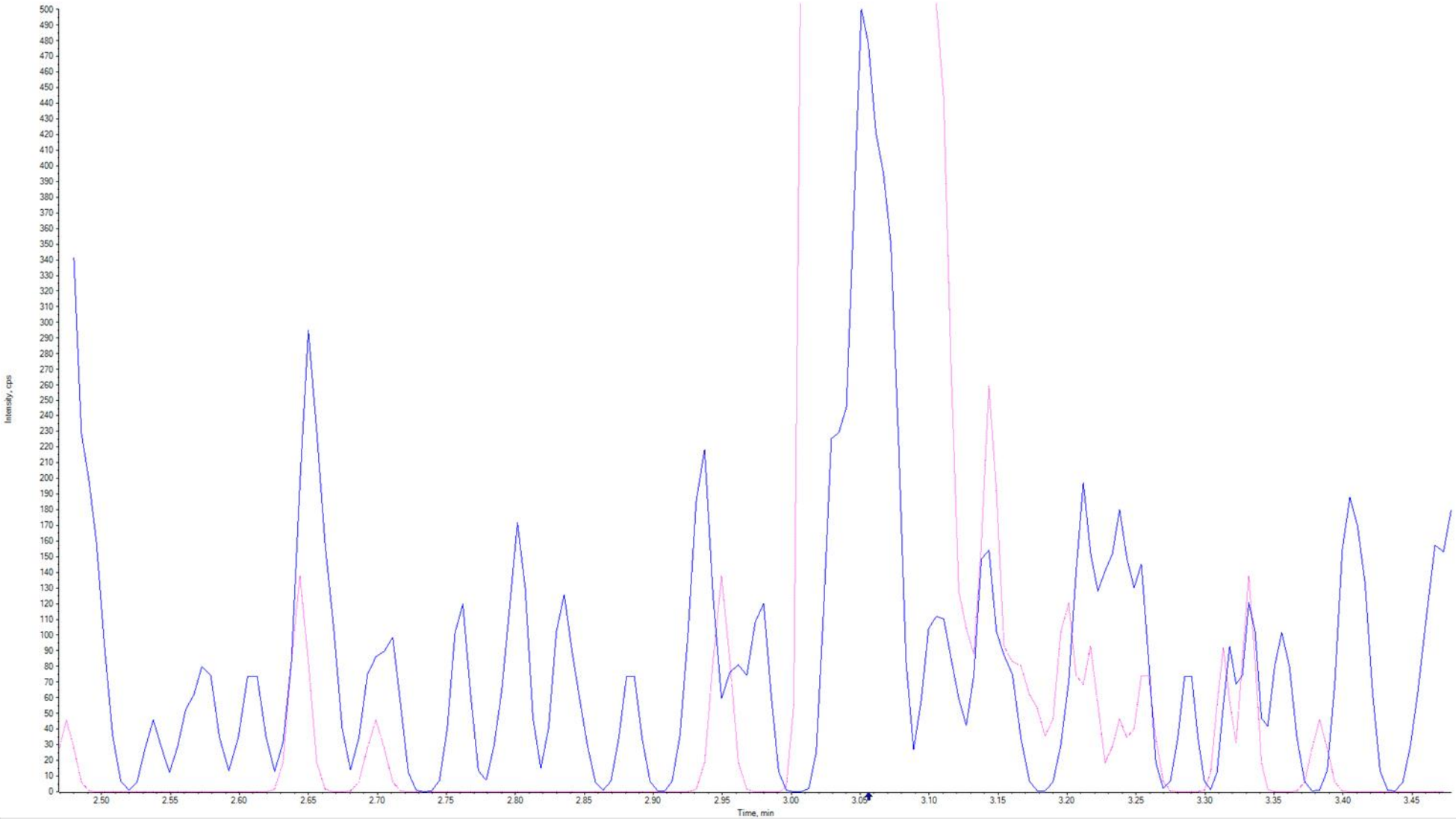

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PFOA_2
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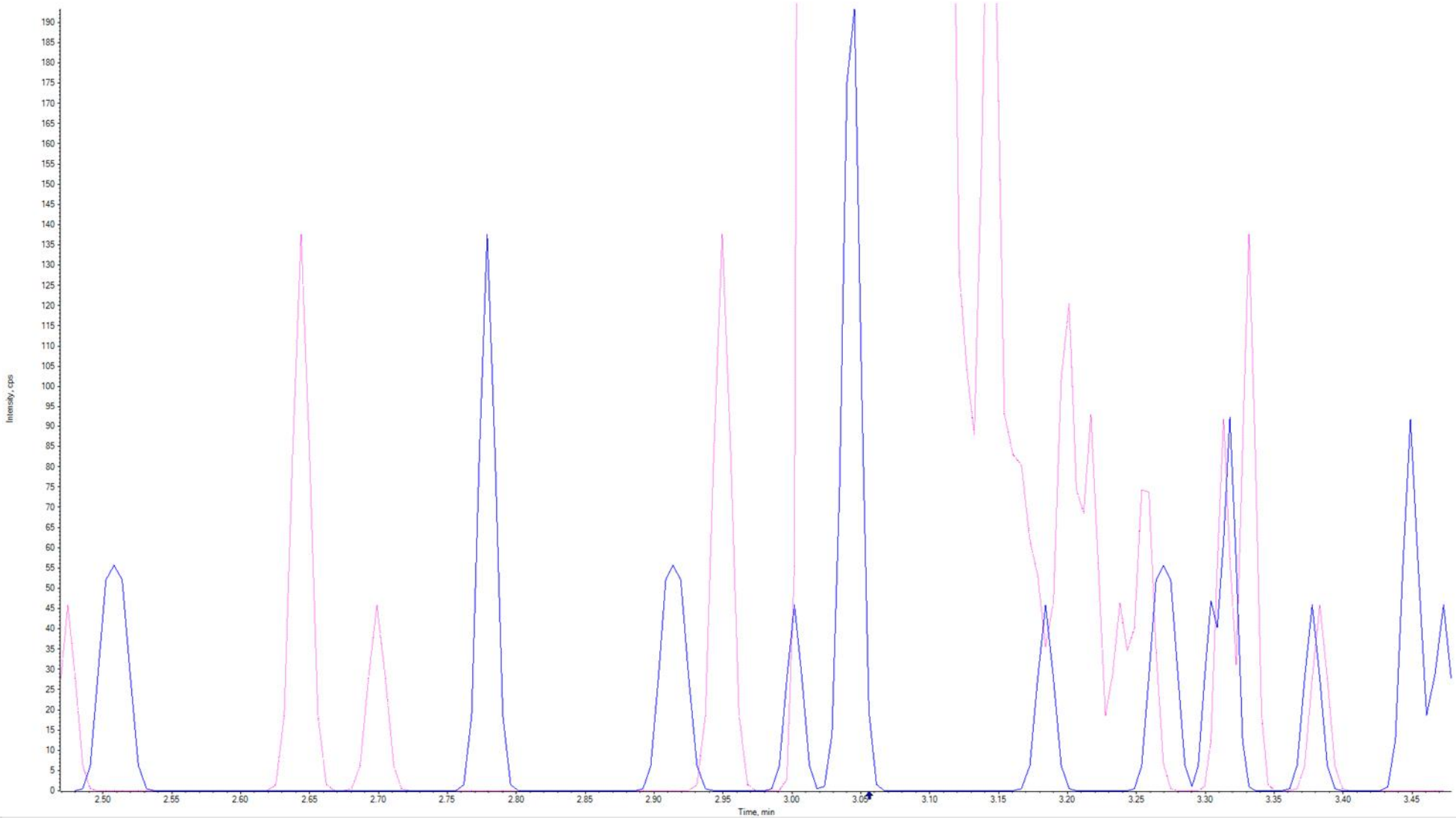

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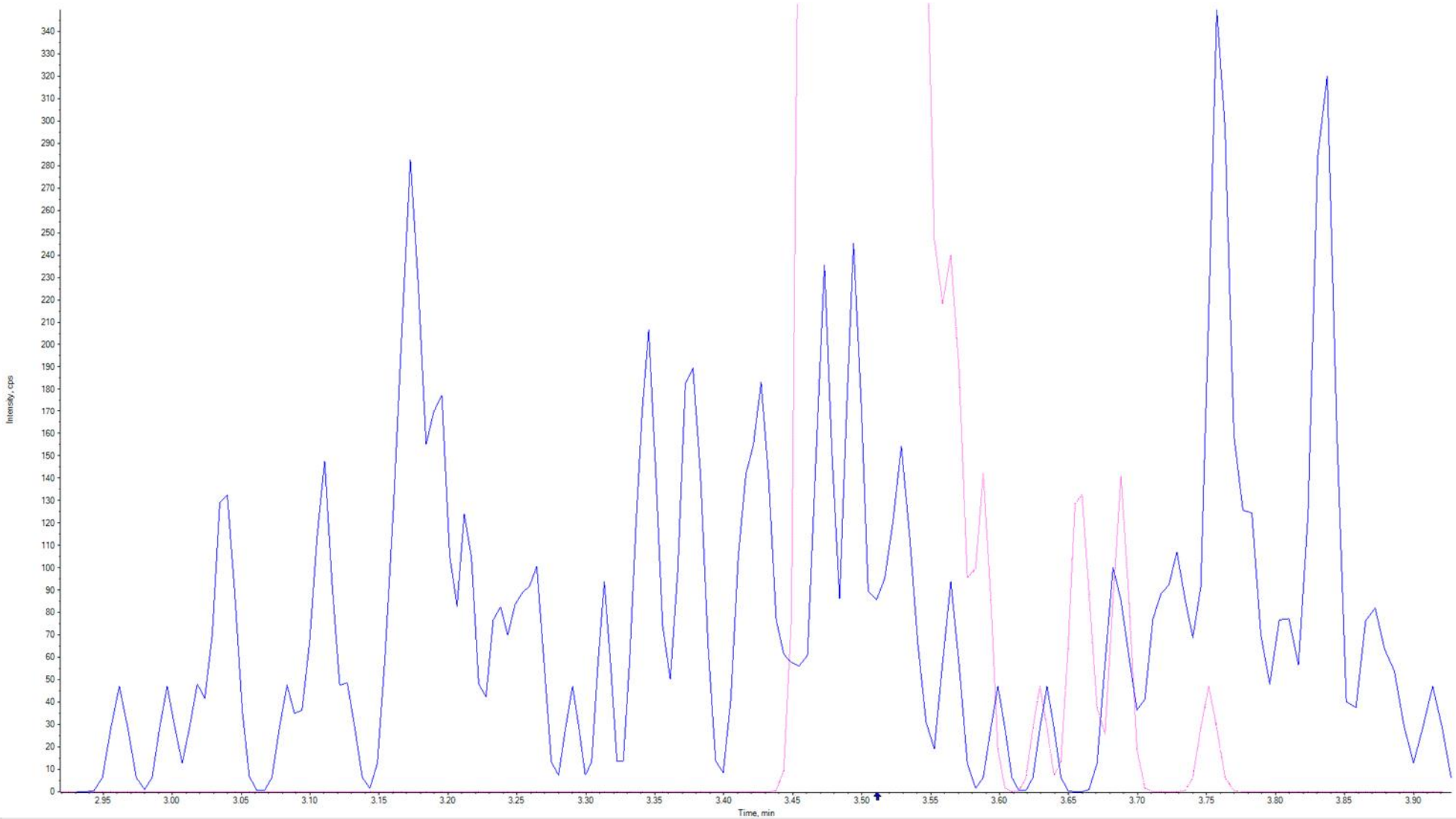
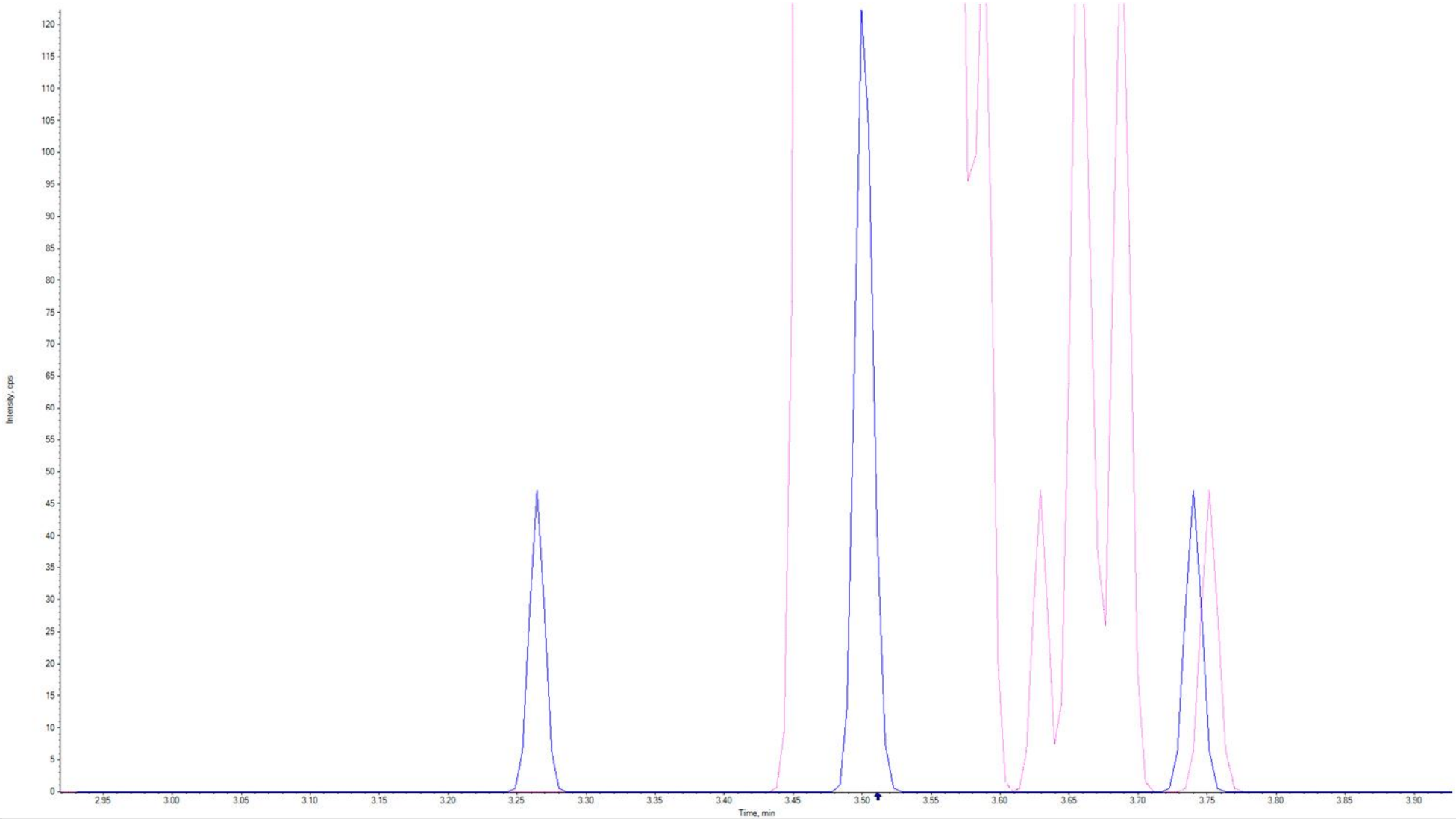
PFNA
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
Dataset: D:\SCIEX OS Data\PFAS\Data\241220\SCI08_241220_42.wiff2_9
Last Altered: 12/20/2024 12:41:04 PM
Generated: 12/20/2024 10:43:43 AM

PFNA_2
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



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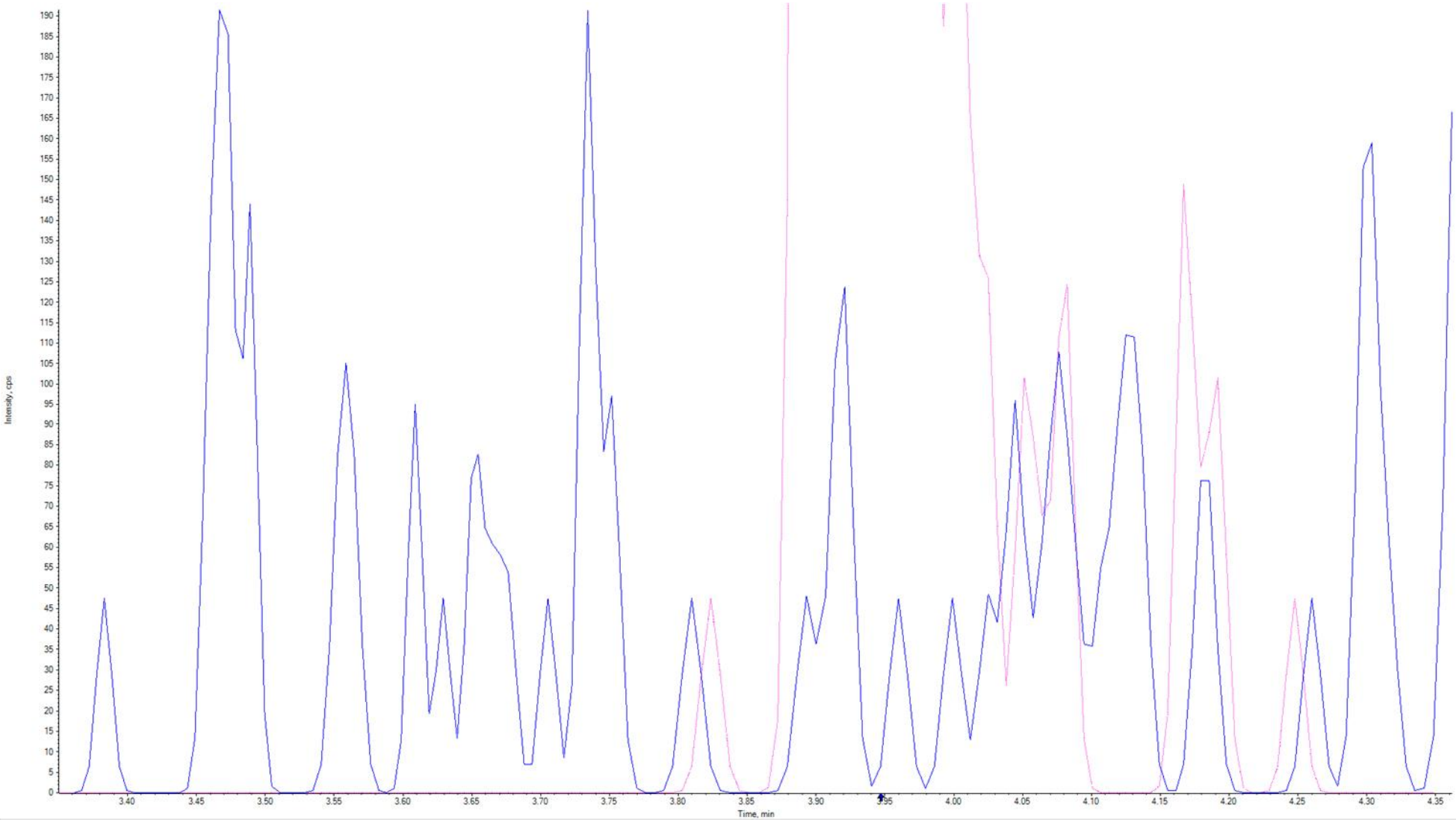
PFDA
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



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Alpha Analytical LLC
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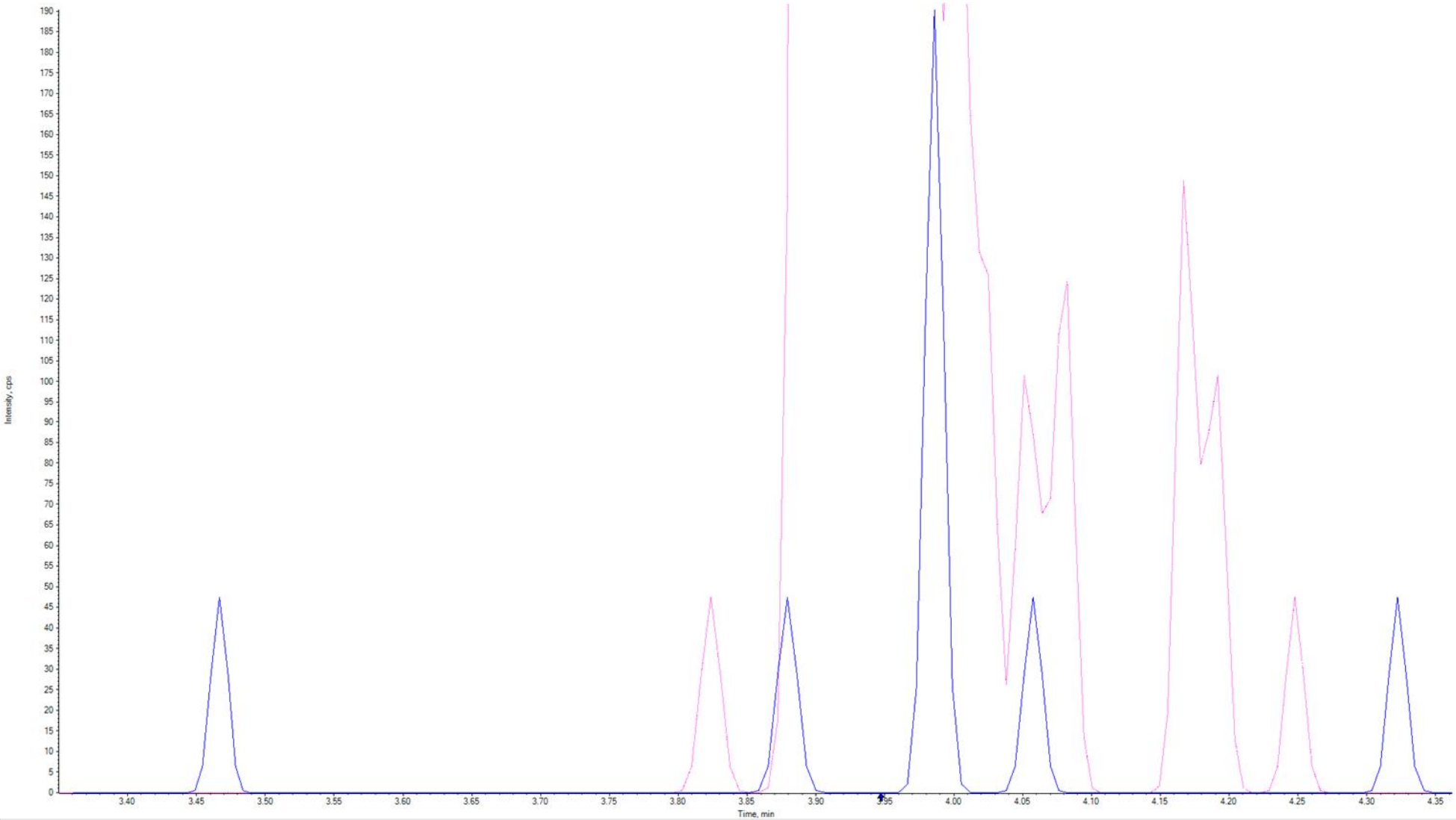
PFDA_2
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



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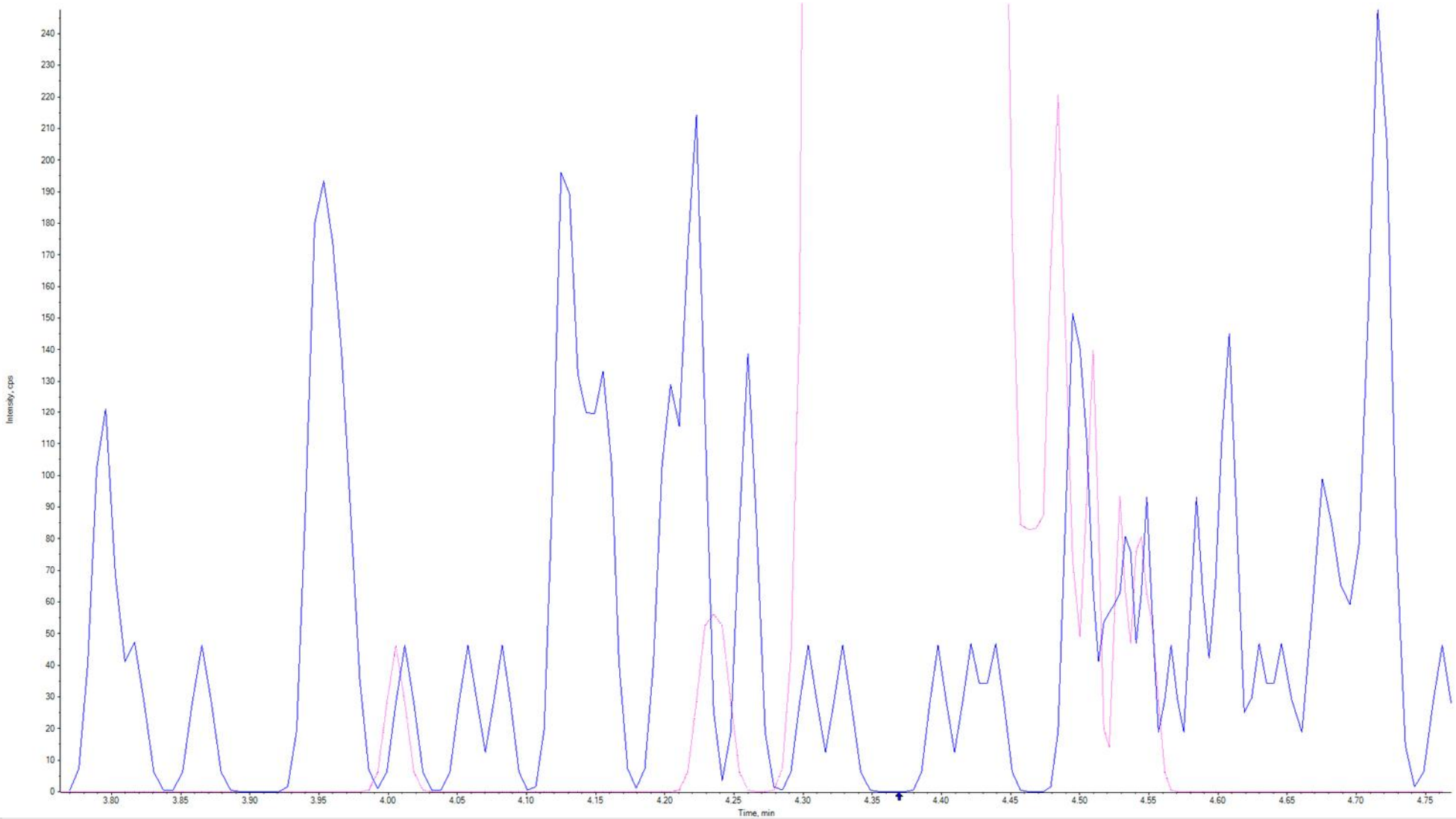
PFUnA
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



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Alpha Analytical LLC
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PFUnA_2
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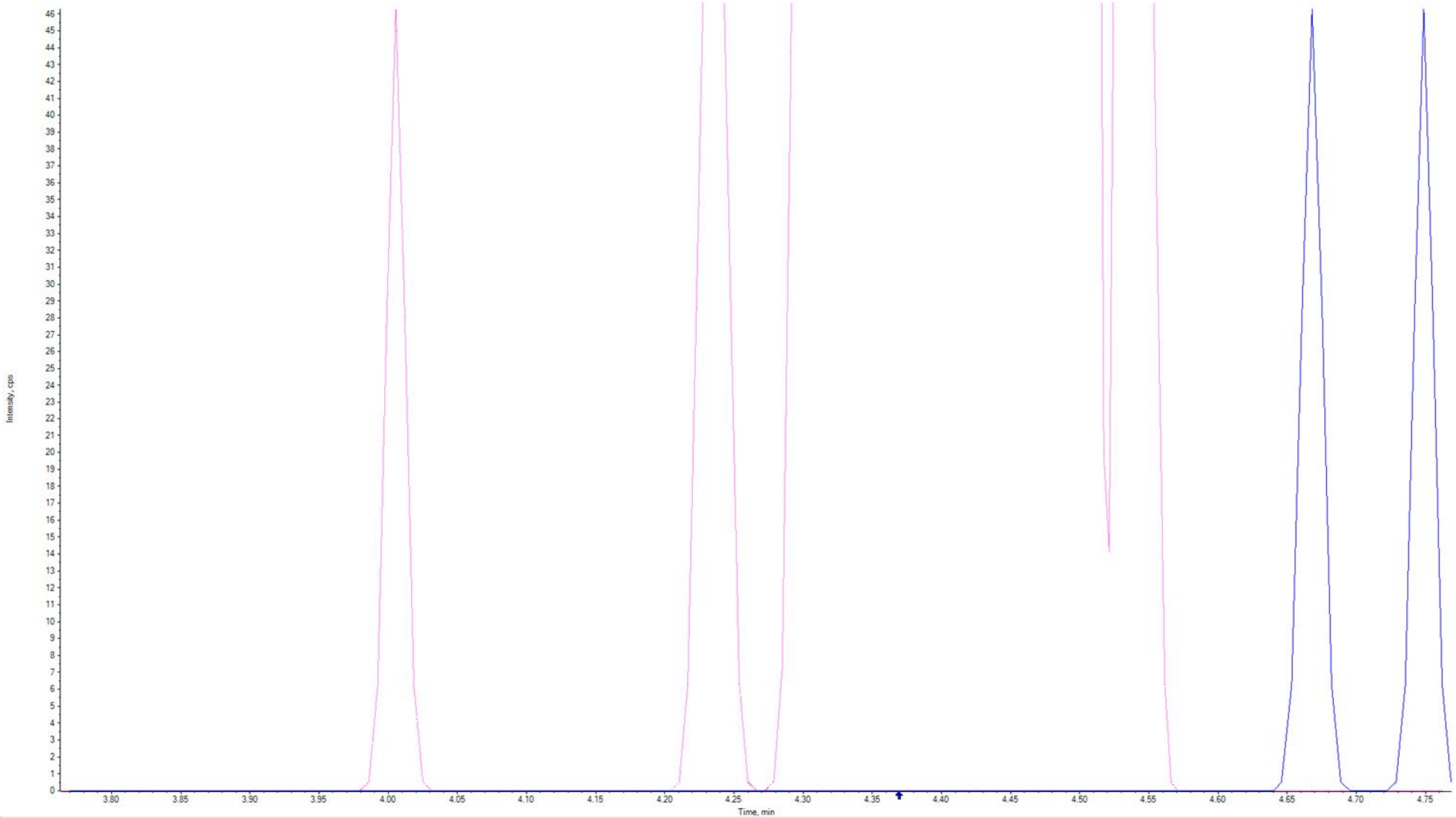

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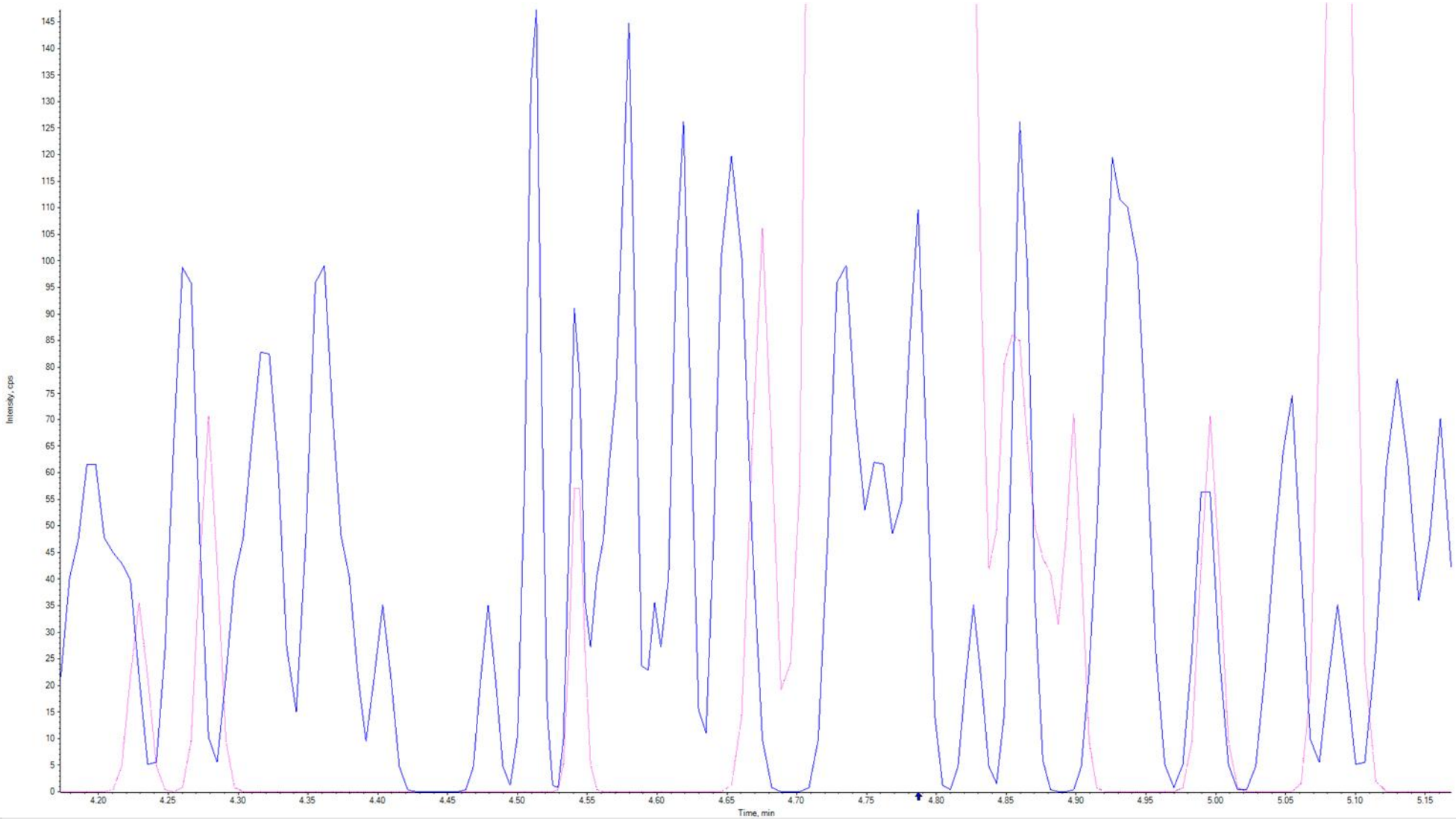
PFDoA
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



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Alpha Analytical LLC
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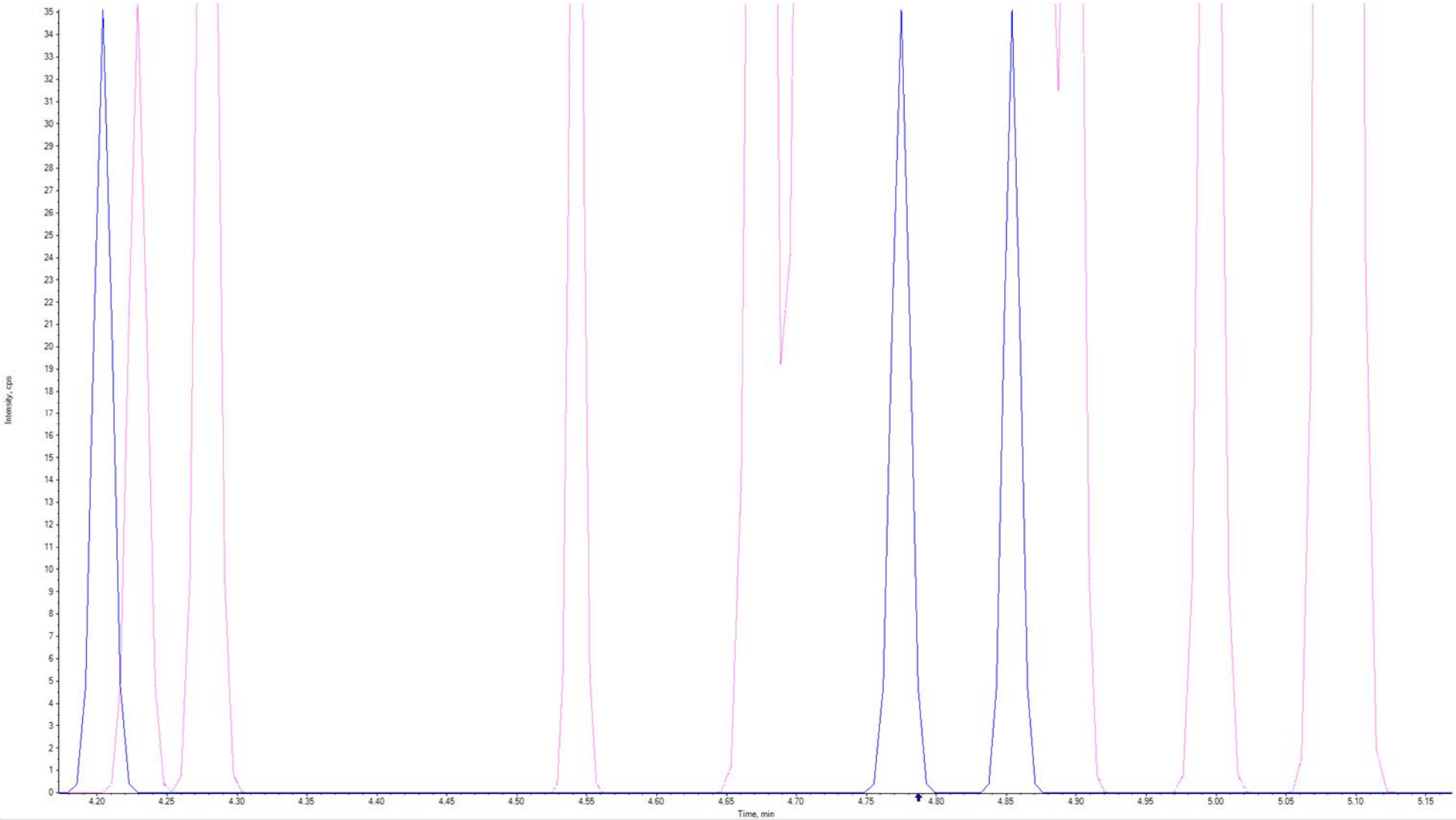
PFDoA_2
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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PFTrDA
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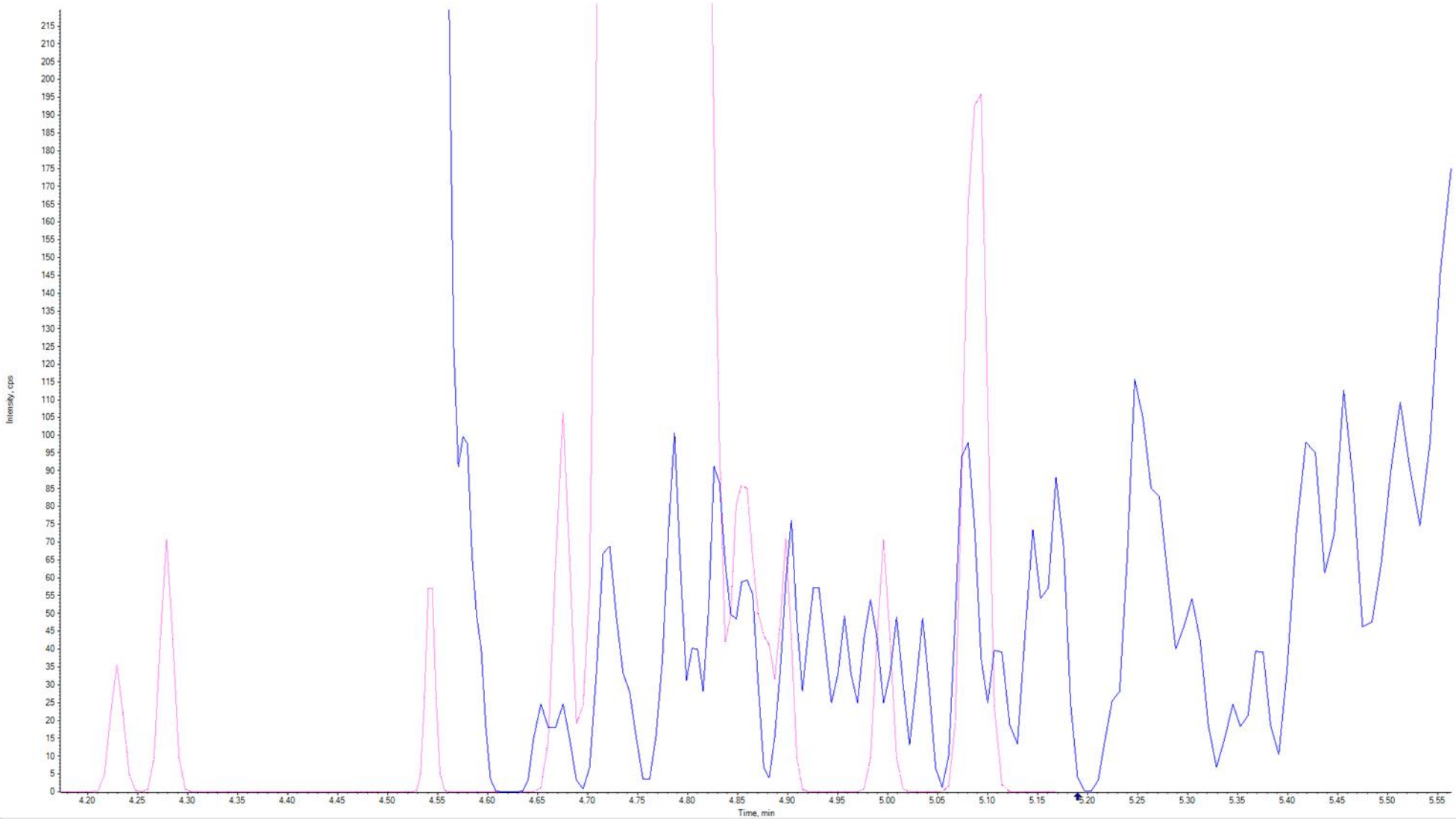

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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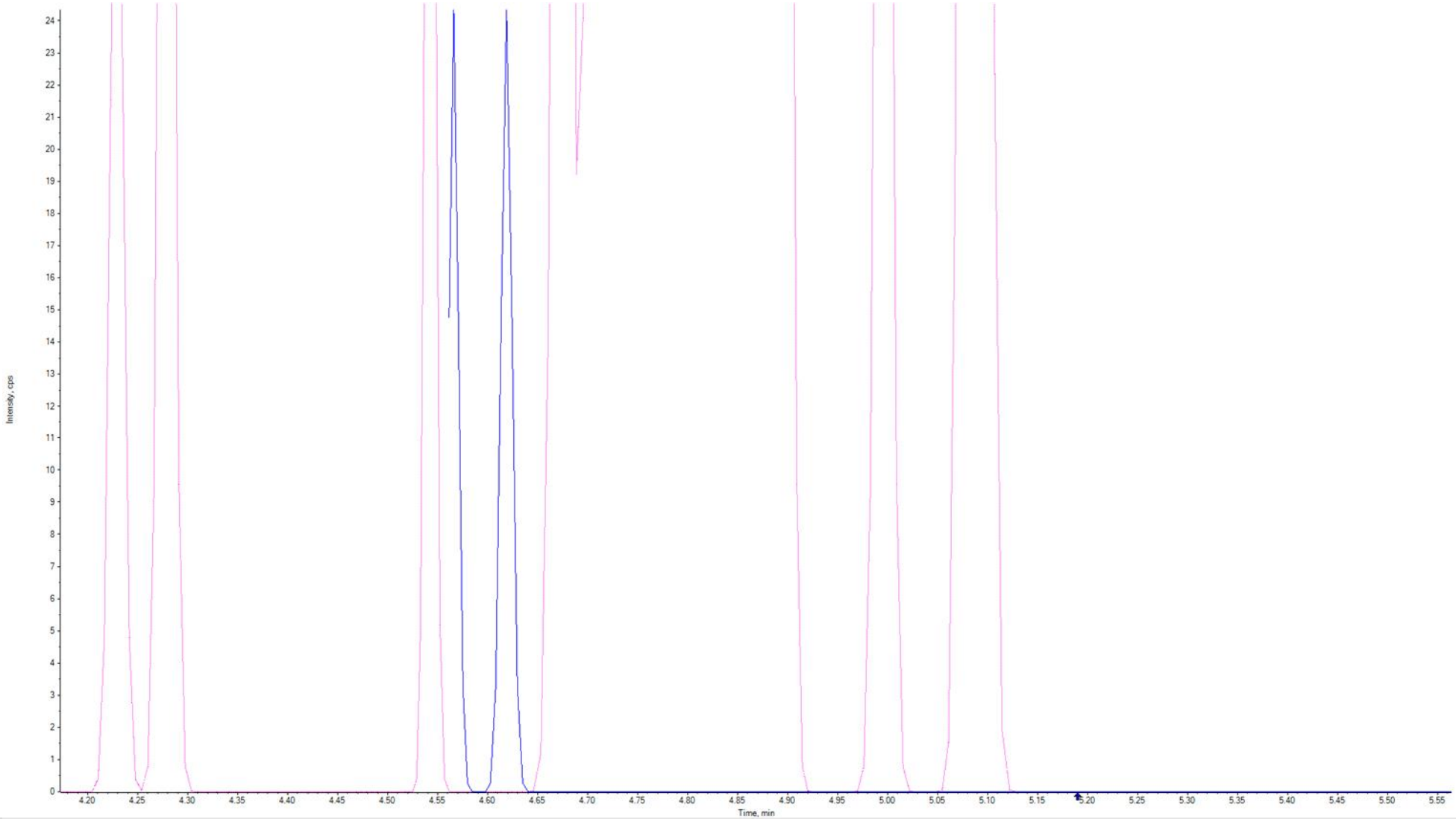
Last Altered: 12/20/2024 12:41:04 PM
Generated: 12/20/2024 10:43:43 AM

PFTrDA_2
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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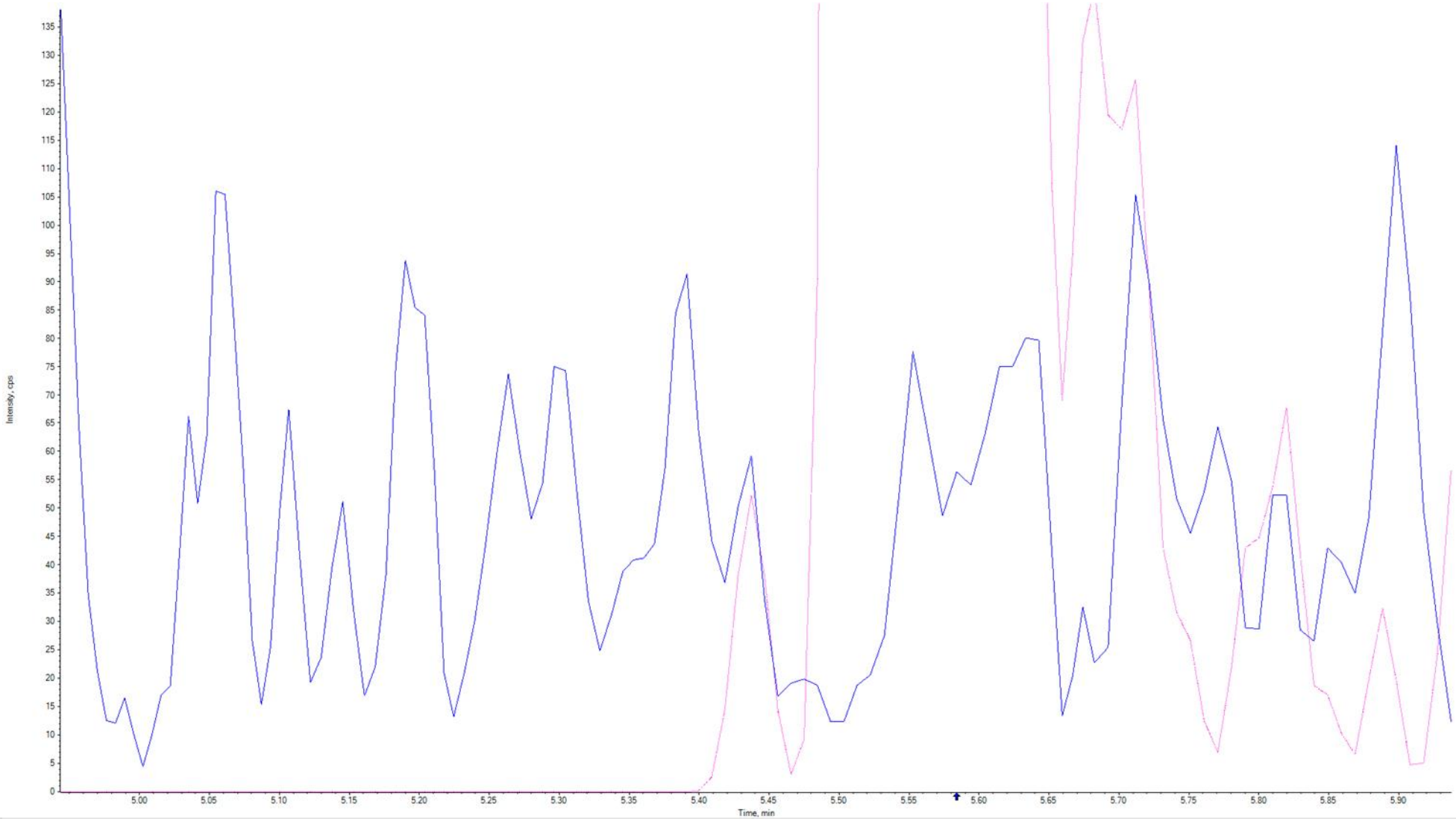
Last Altered: 12/20/2024 12:41:04 PM
Generated: 12/20/2024 10:43:43 AM

PFTeDA
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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PFTeDA_2
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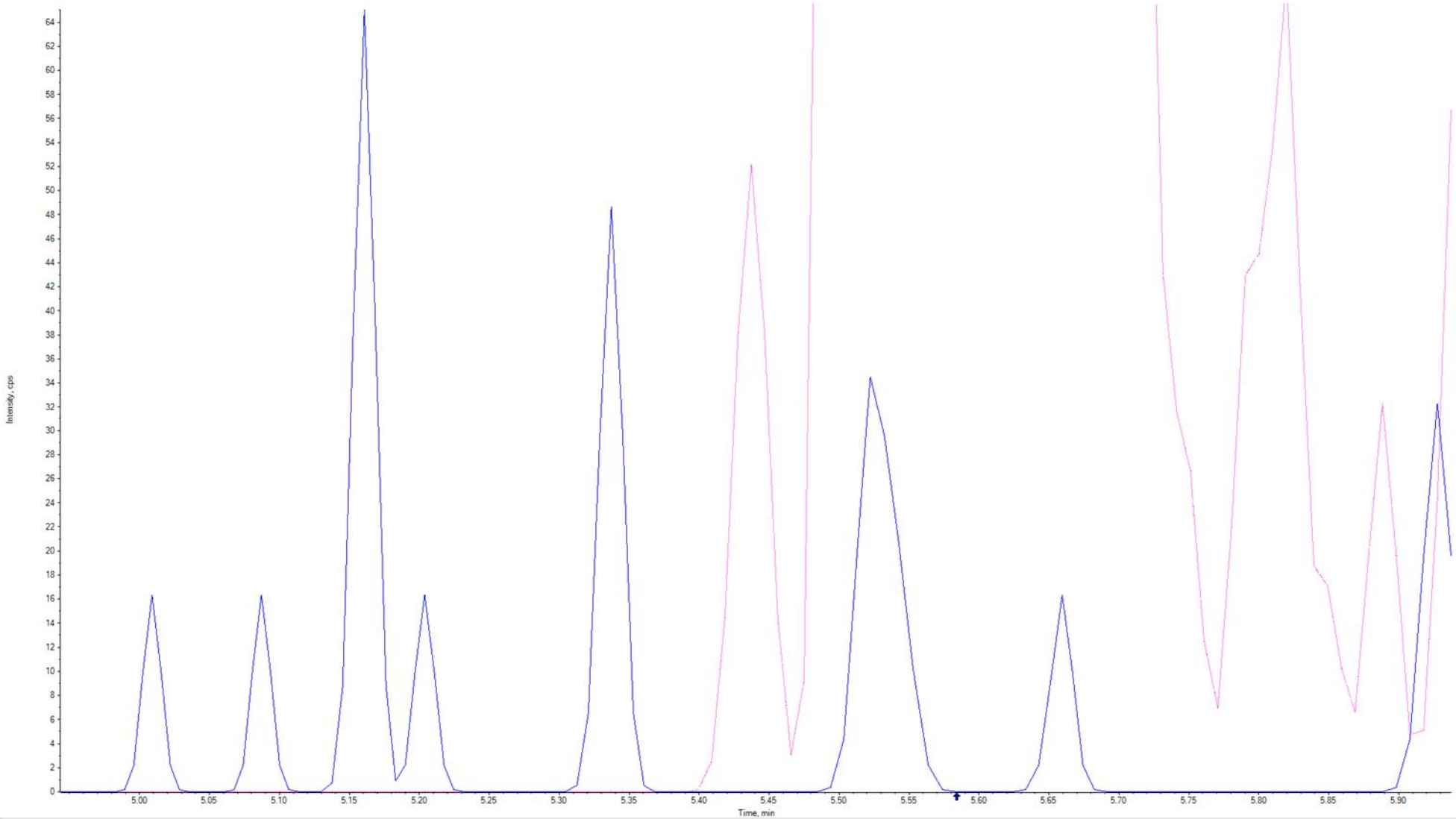

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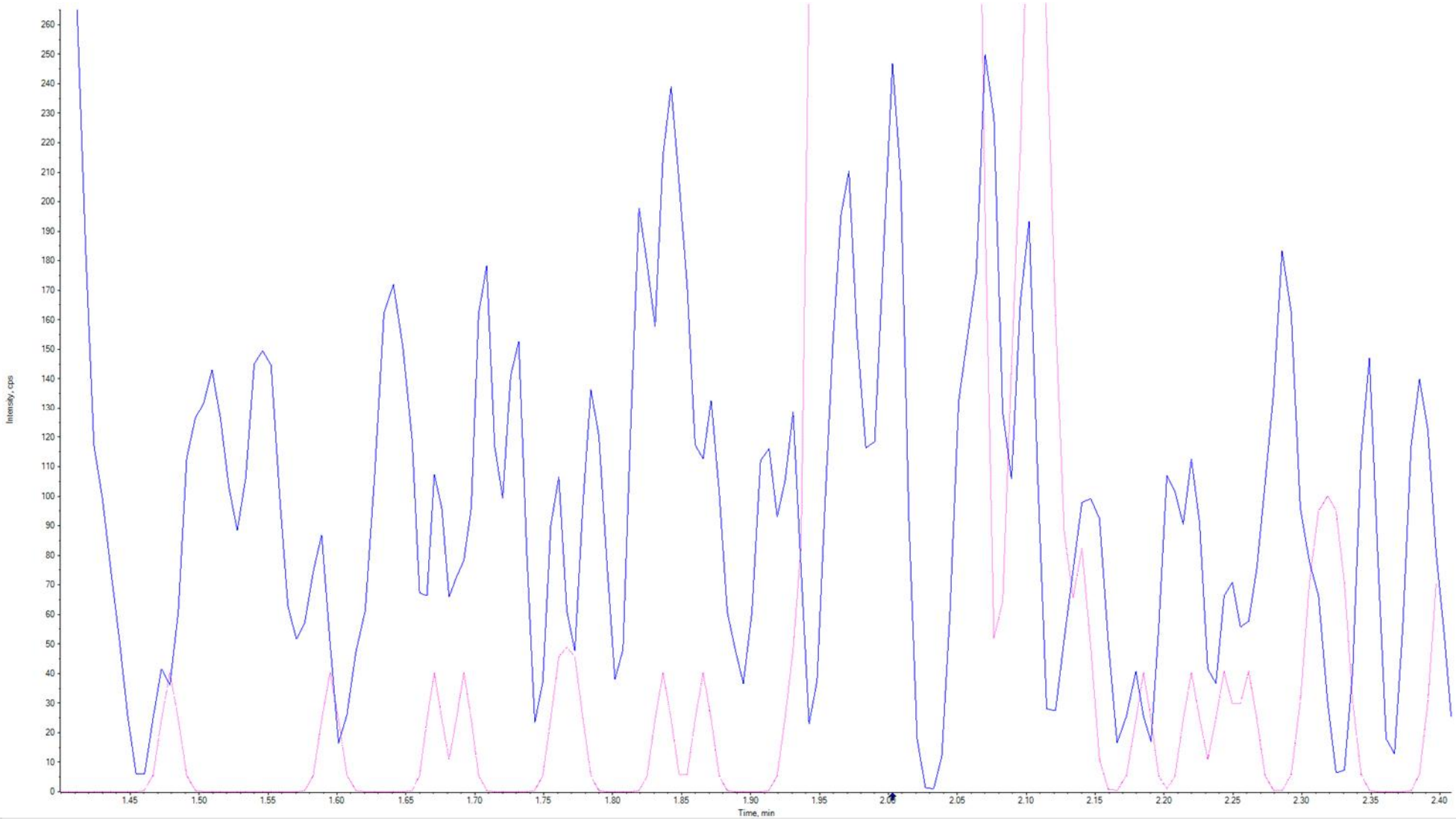
PFBS
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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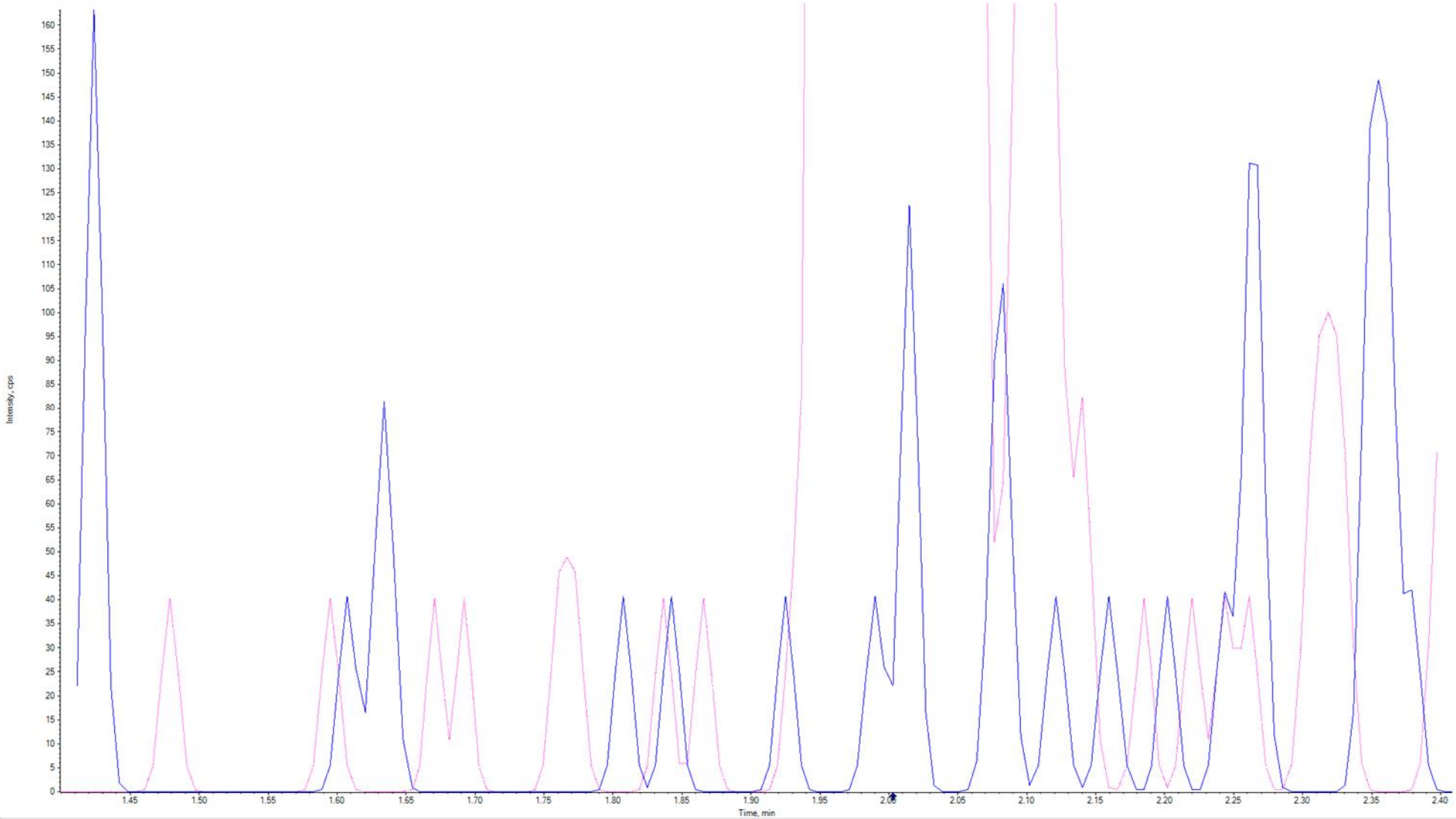
PFBS_2
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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PFPeS
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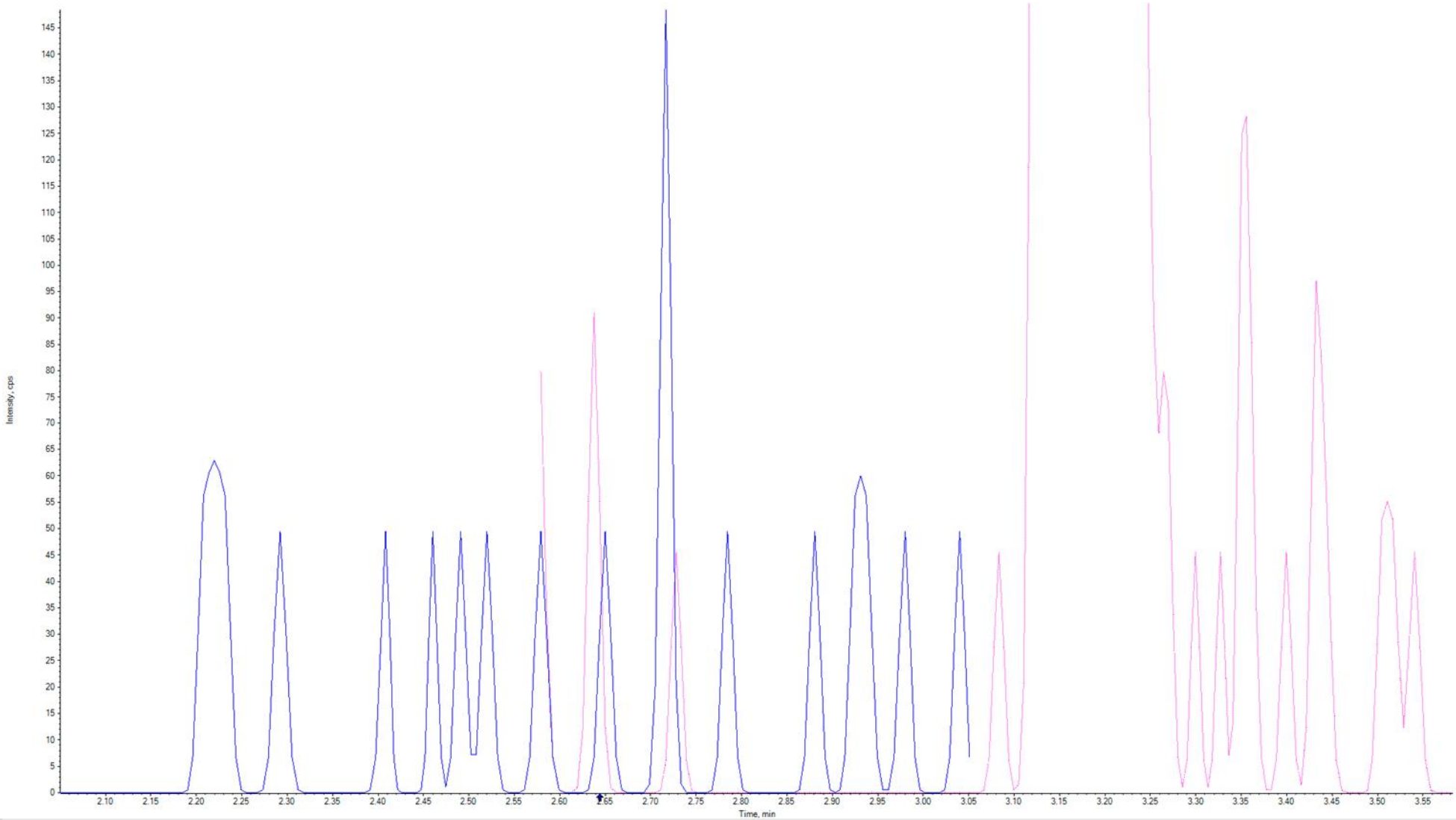

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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PFPeS_2
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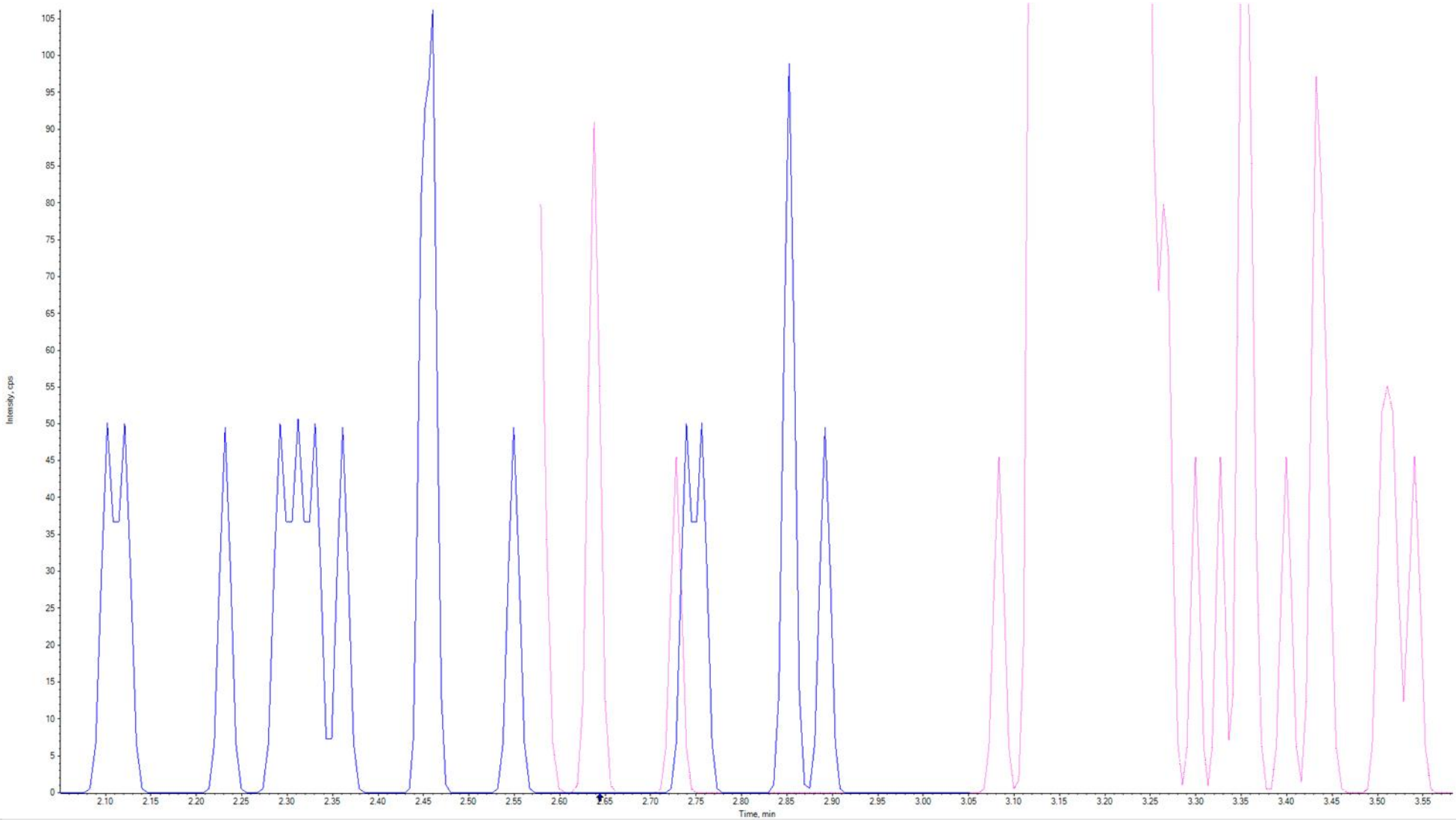

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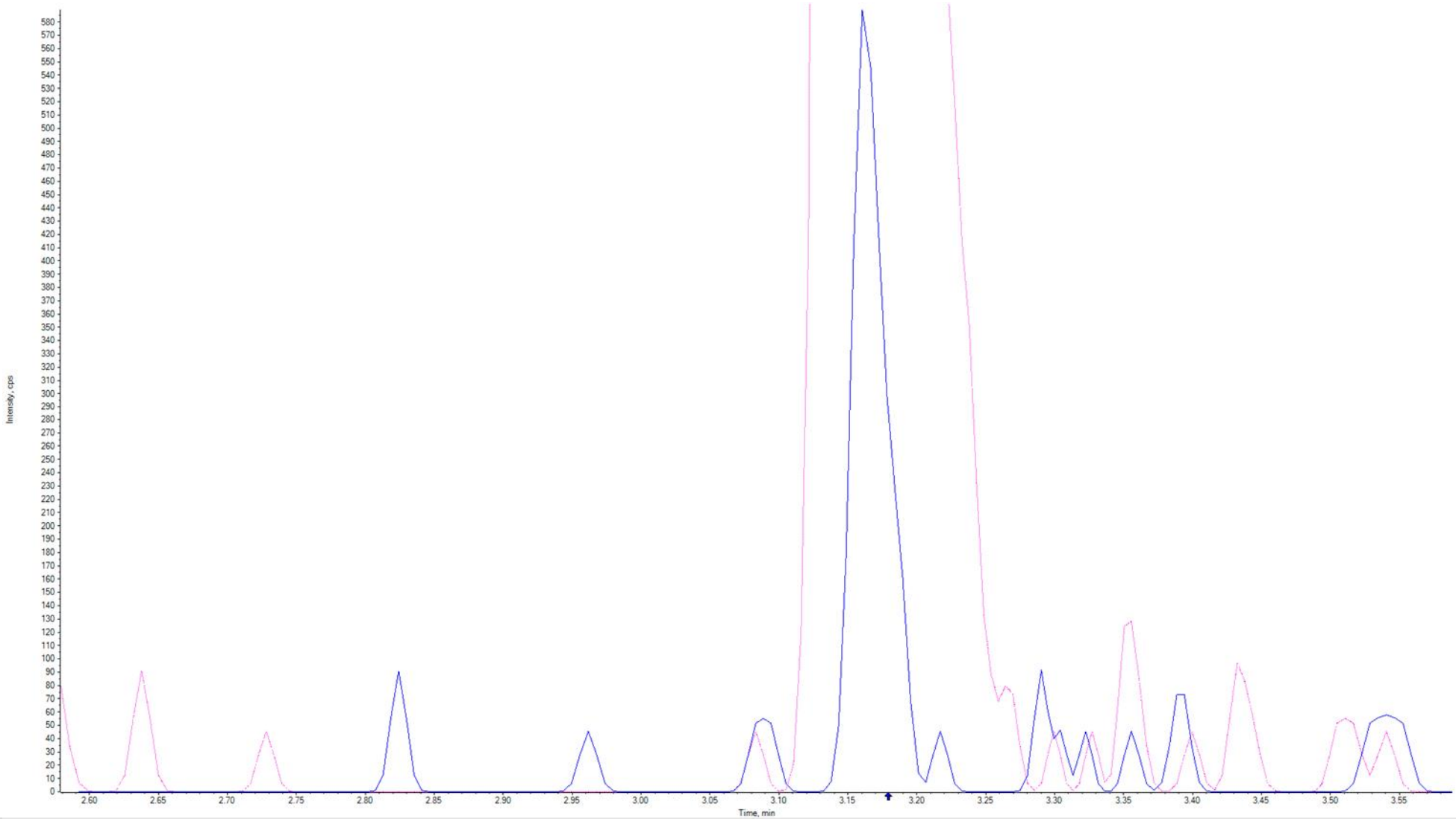
PFHxS
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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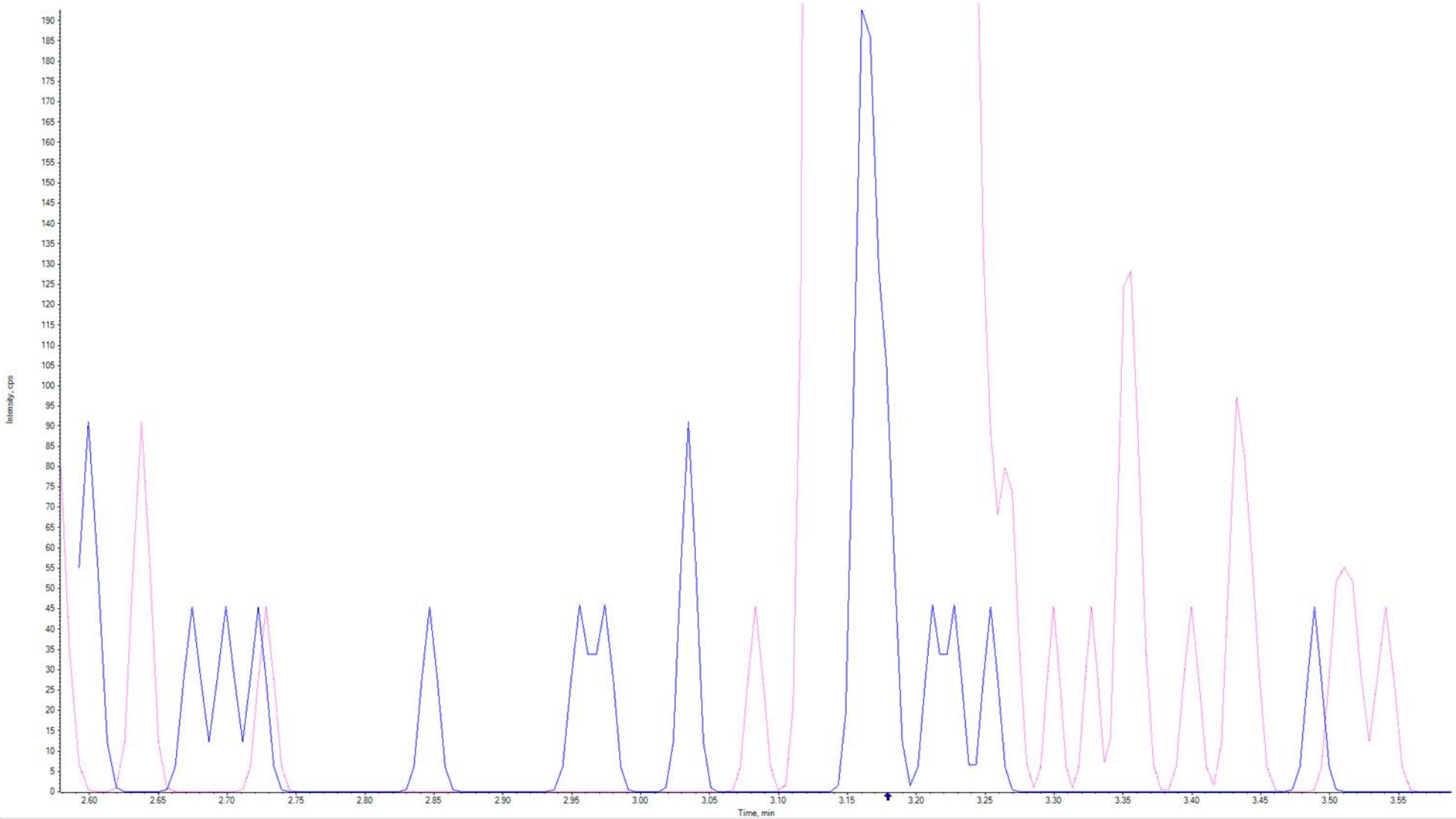
PFHxS_2
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



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PFHpS
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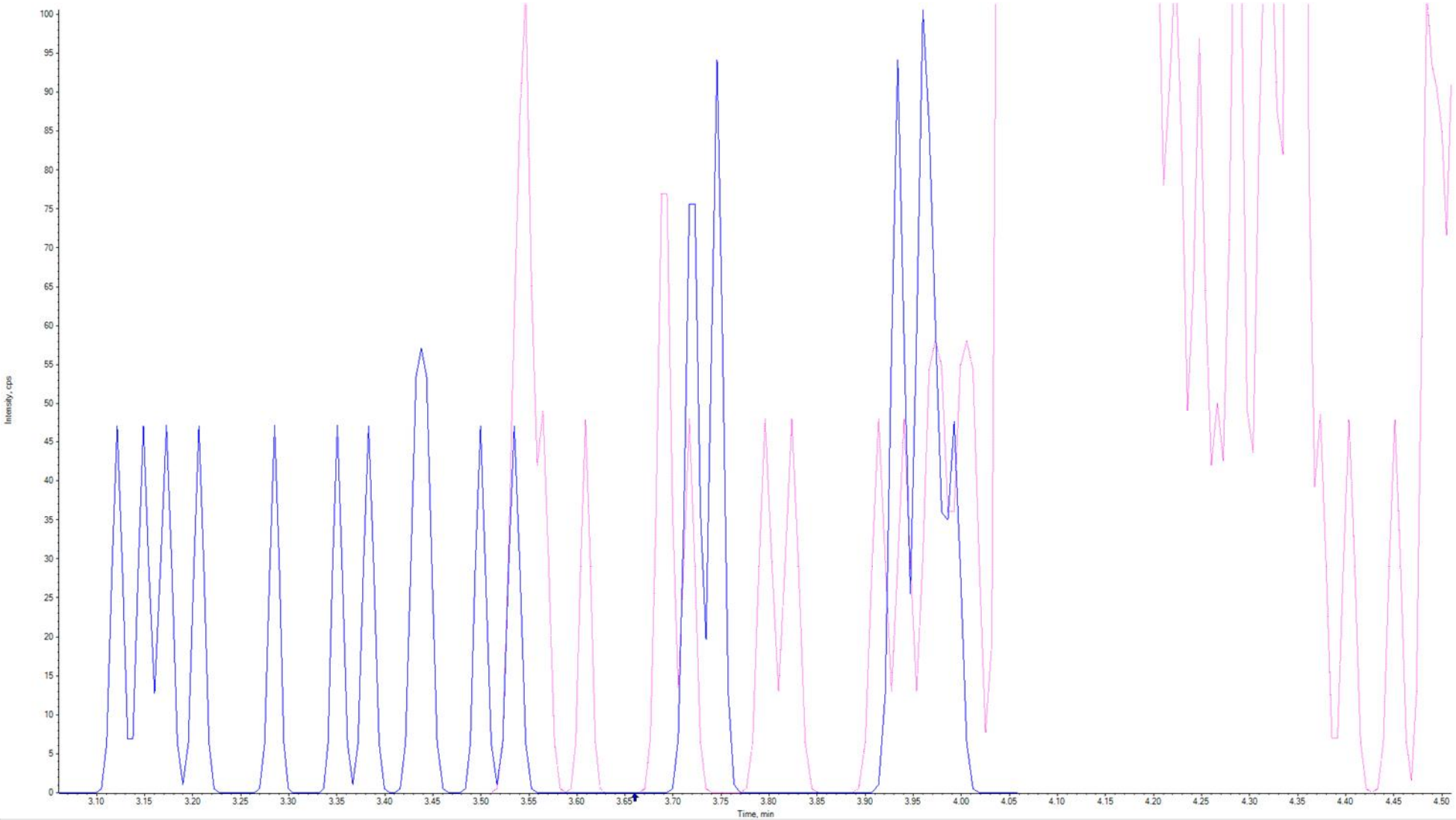

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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PFHpS_2
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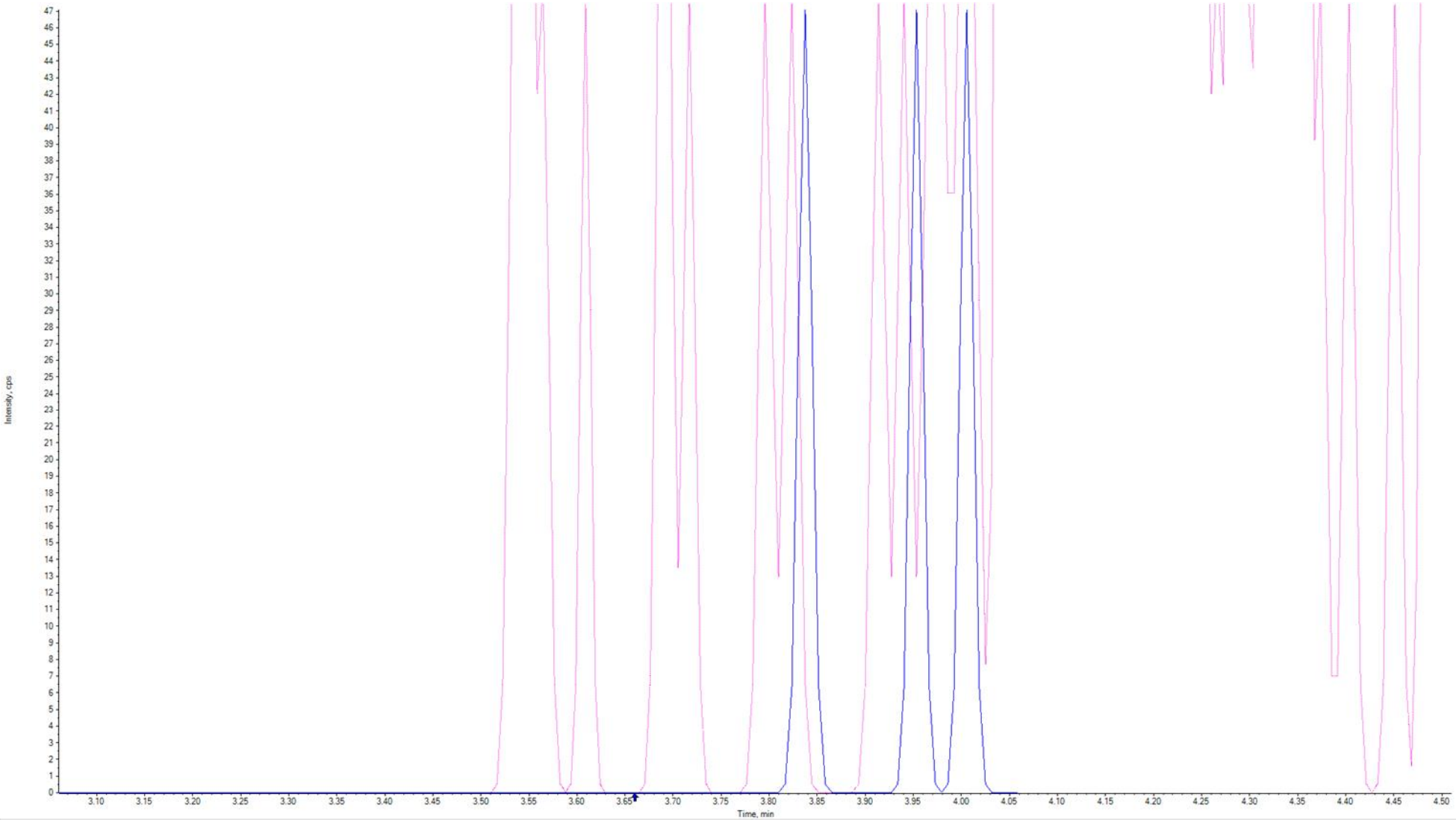

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PFOS
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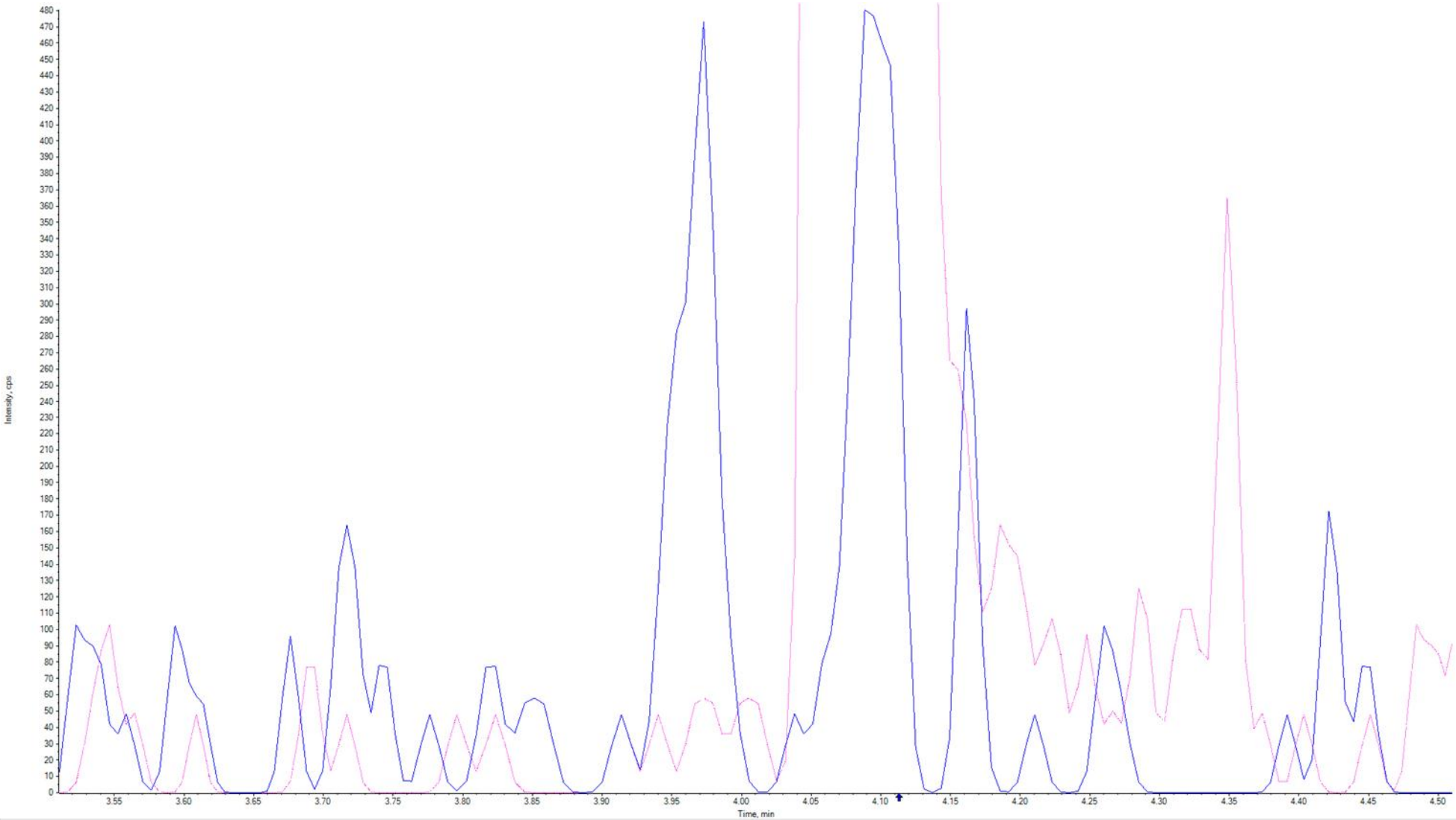

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PFOS_2
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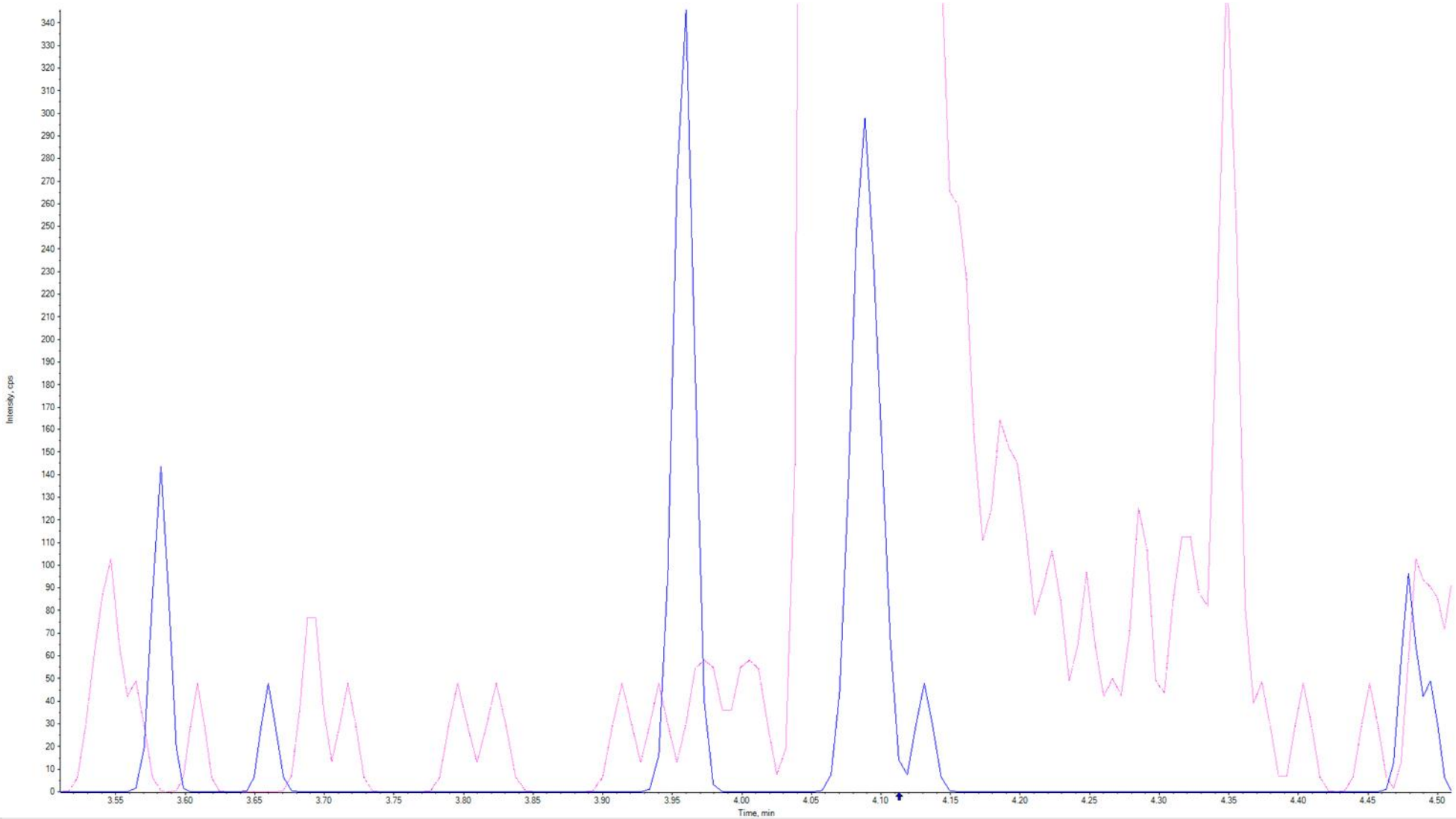

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PFNS
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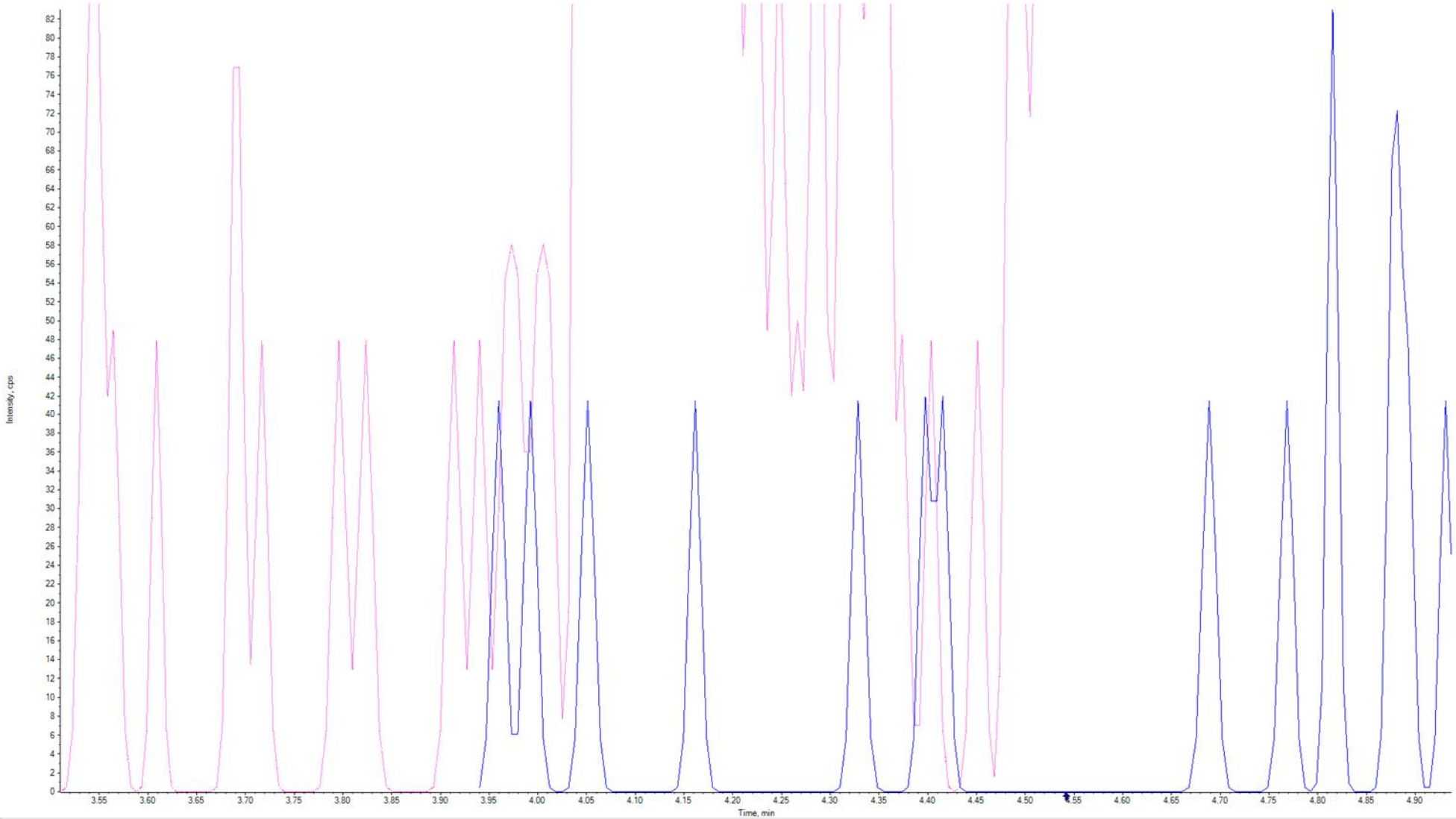

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PFNS_2
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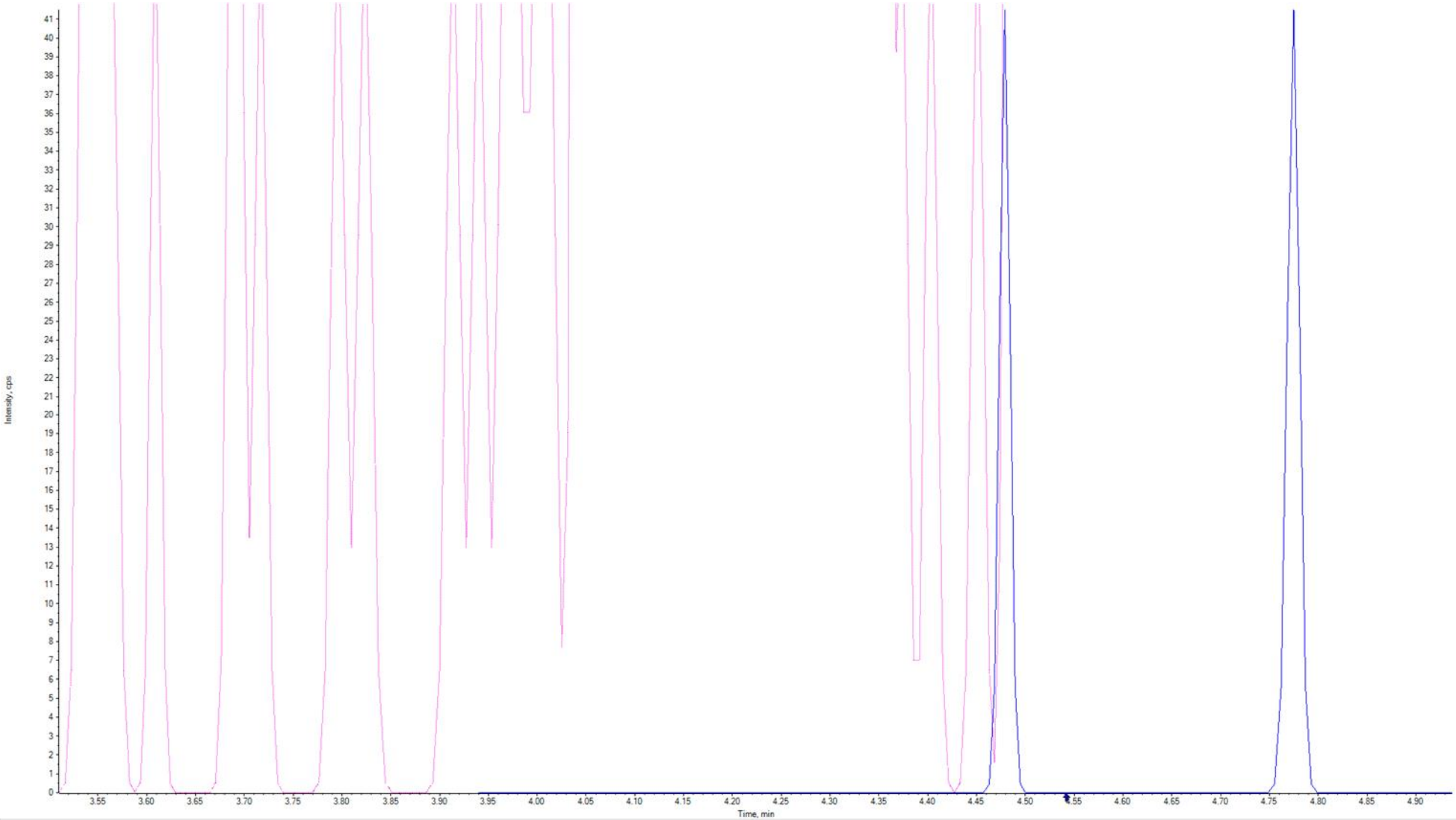

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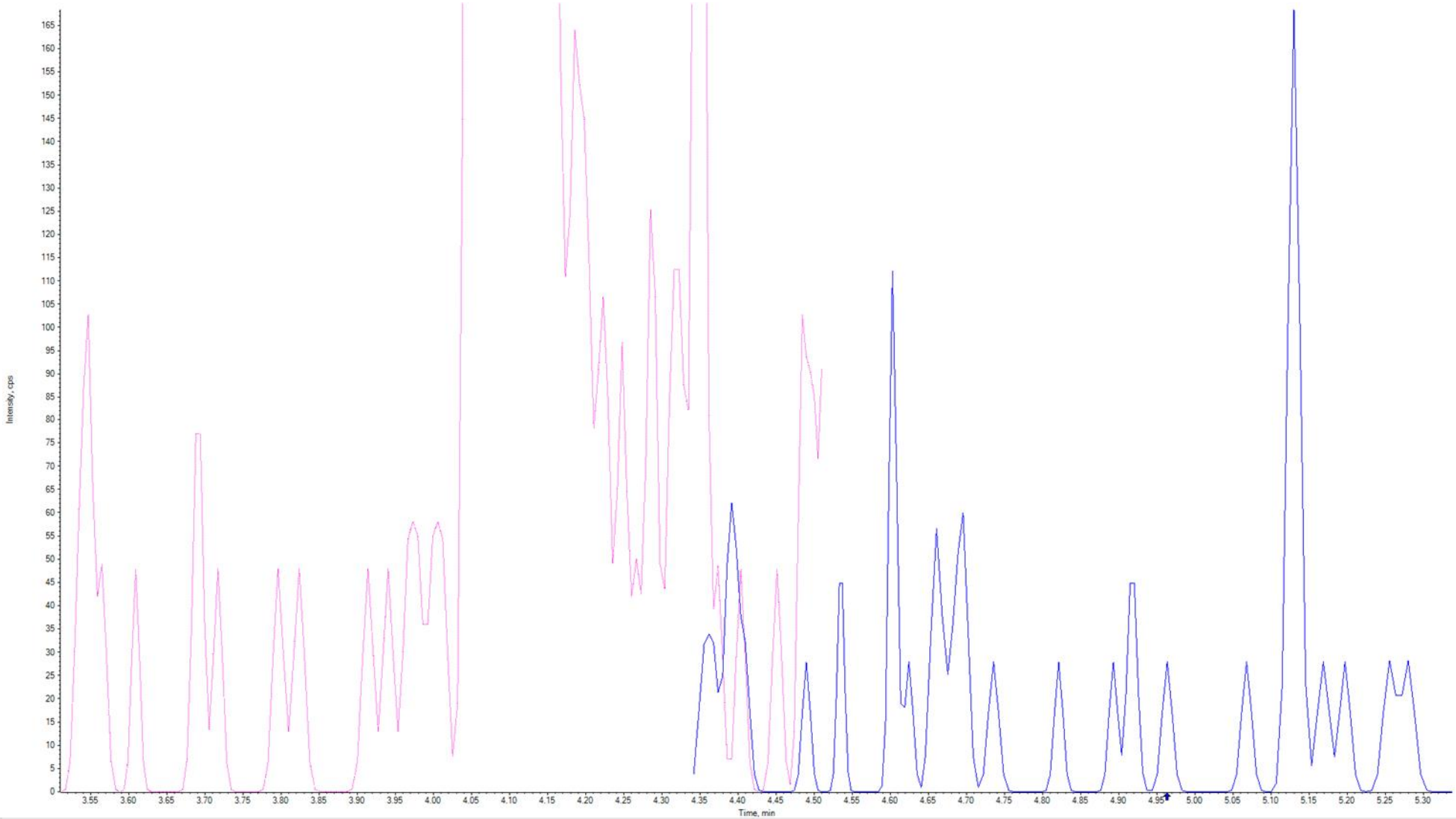
PFDS
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



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PFDS_2
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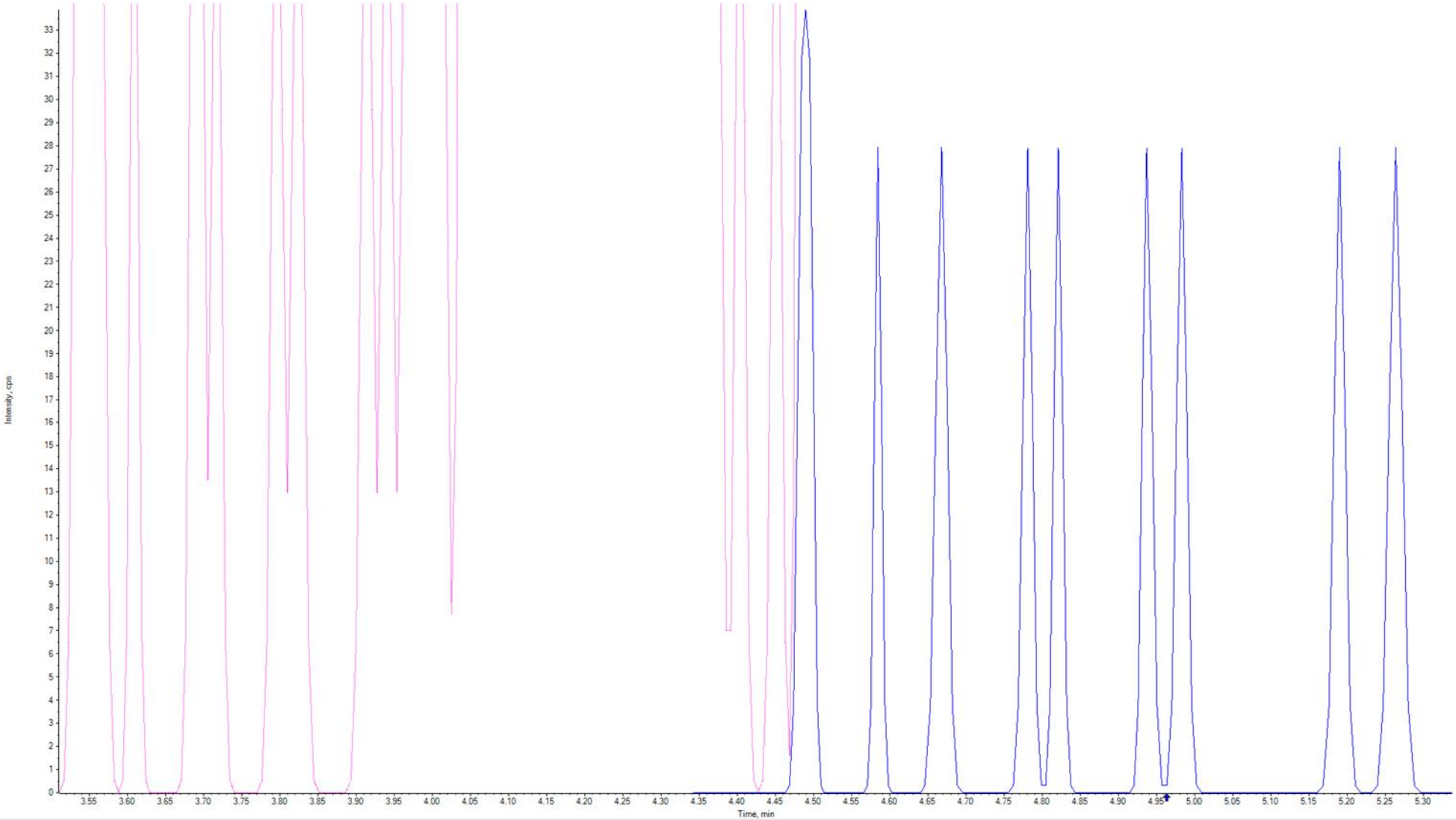

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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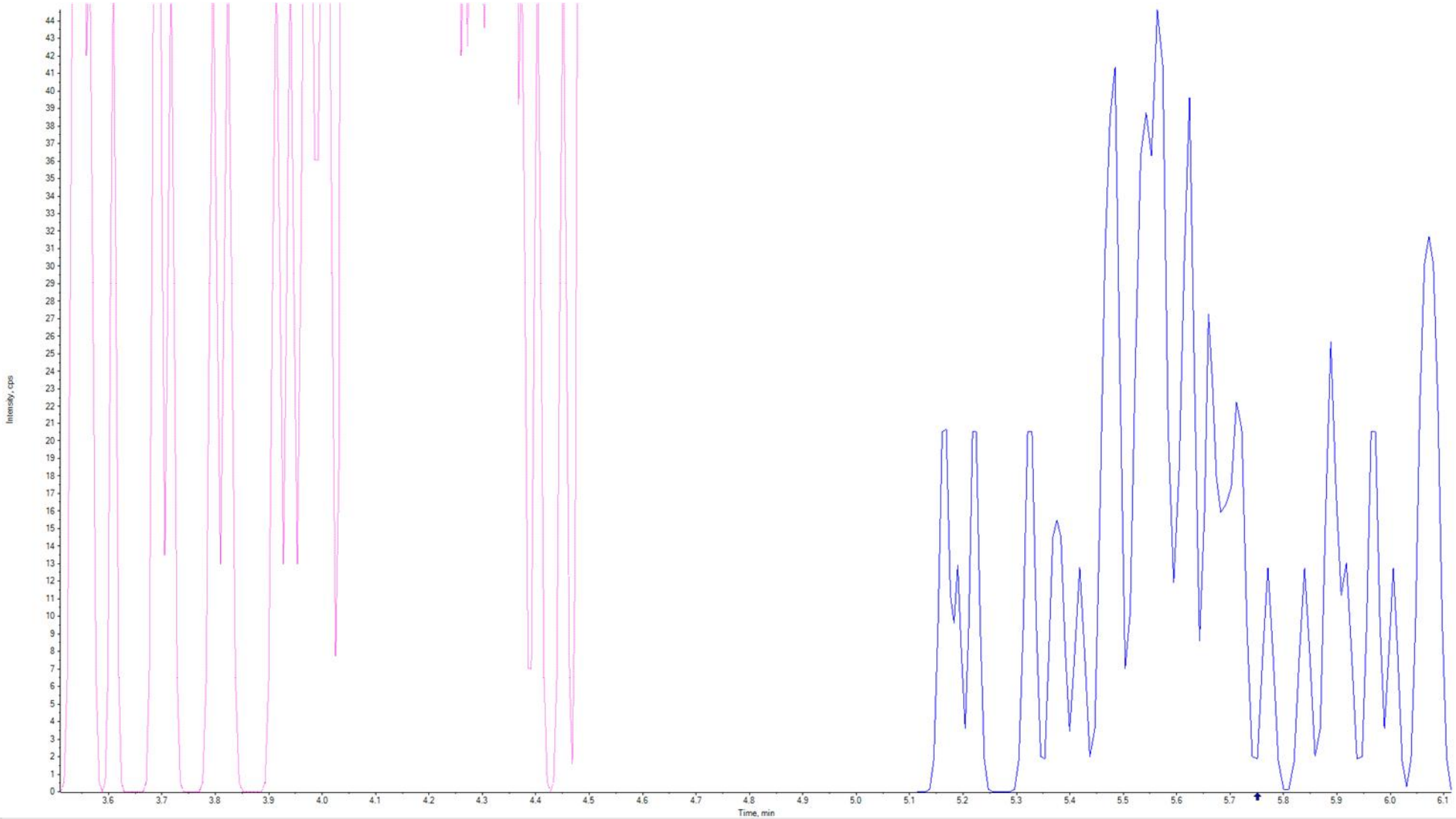
PFDoS
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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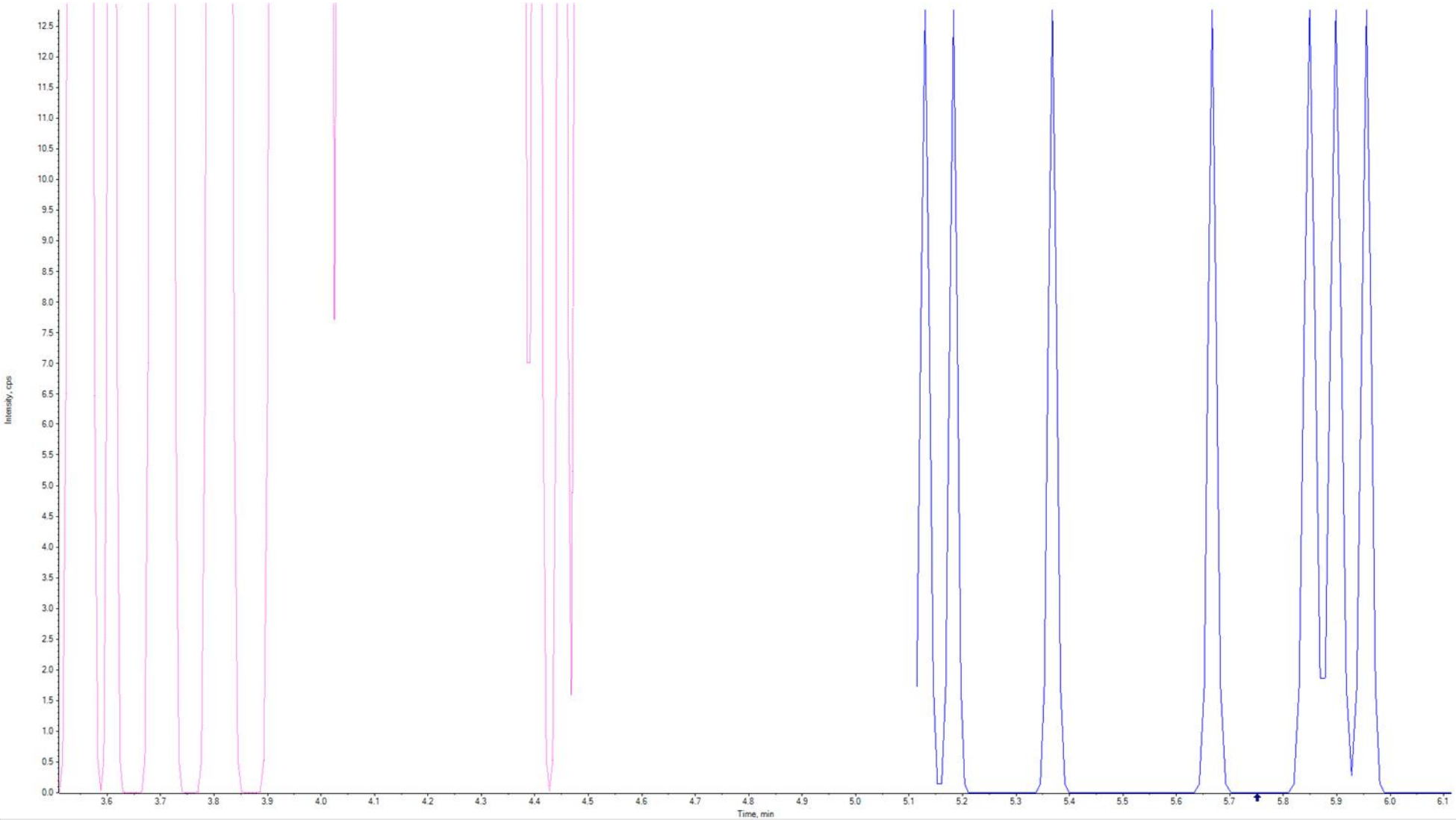
PFDoS_2
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



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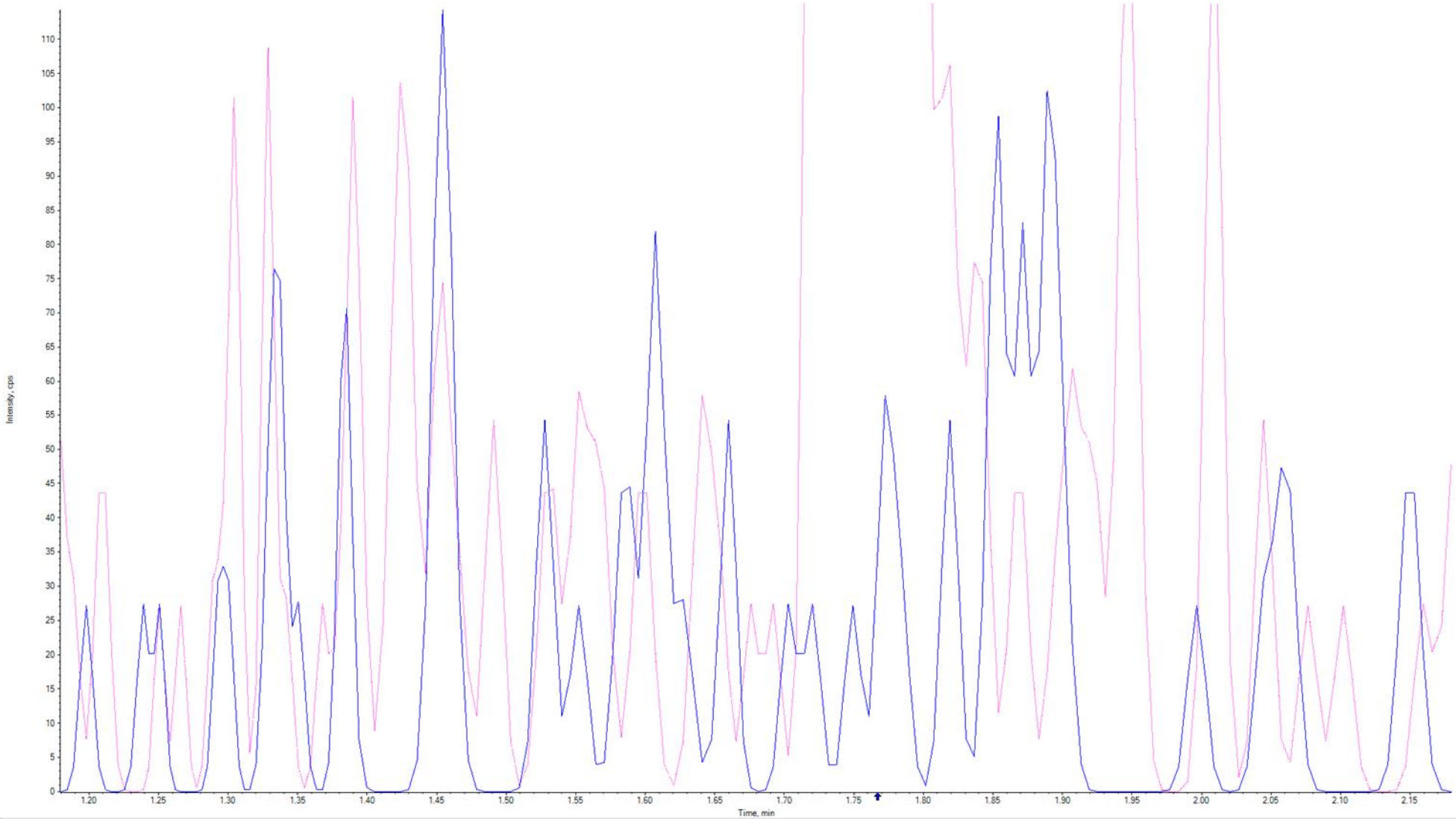
4:2FTS
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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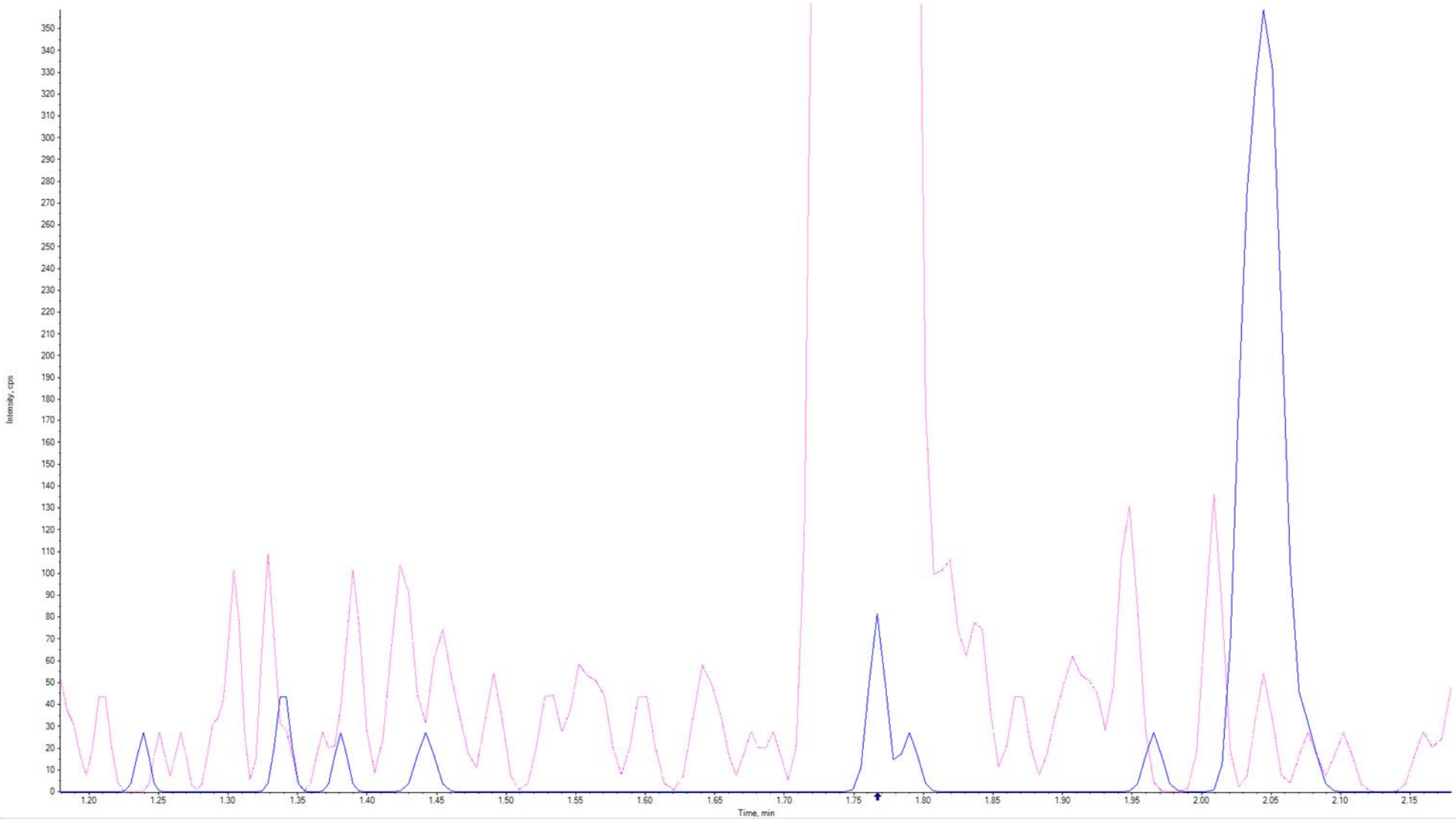
Last Altered: 12/20/2024 12:41:04 PM
Generated: 12/20/2024 10:43:43 AM

4:2FTS_2
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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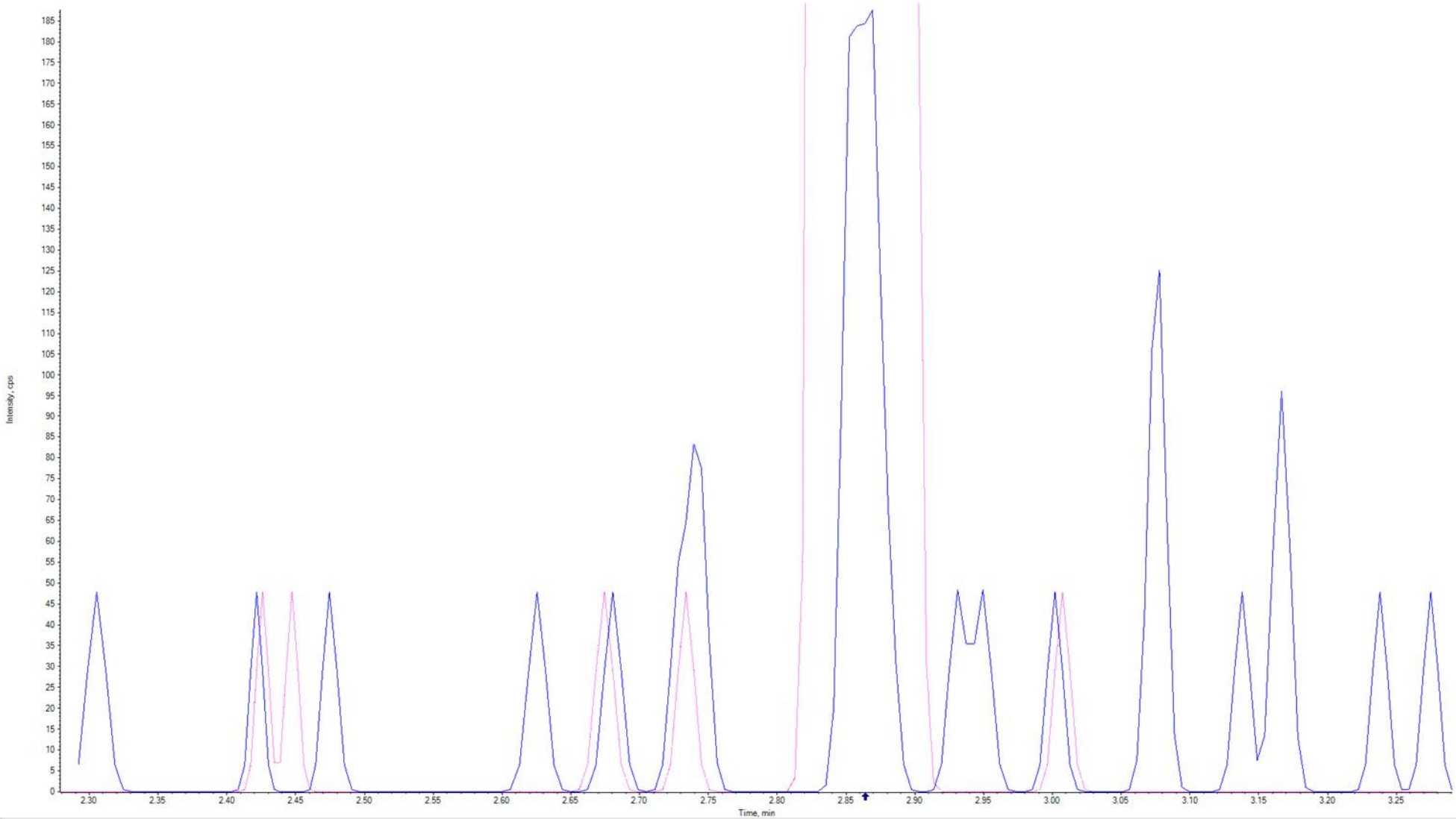
Generated: 12/20/2024 10:43:43 AM

6:2FTS
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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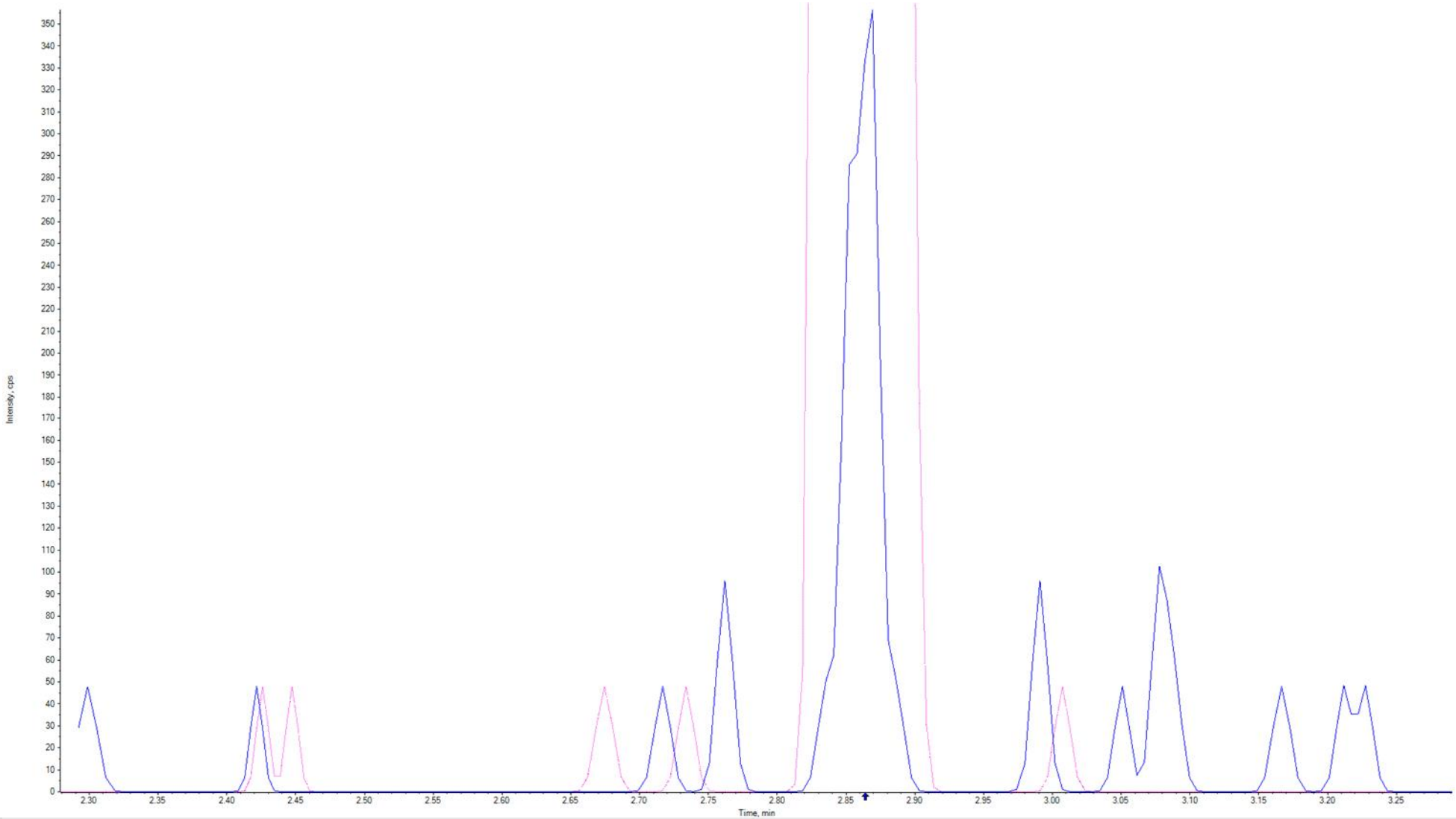
Last Altered: 12/20/2024 12:41:04 PM
Generated: 12/20/2024 10:43:43 AM

6:2FTS_2
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Last Altered: 12/20/2024 12:41:04 PM
Generated: 12/20/2024 10:43:43 AM

8:2FTS
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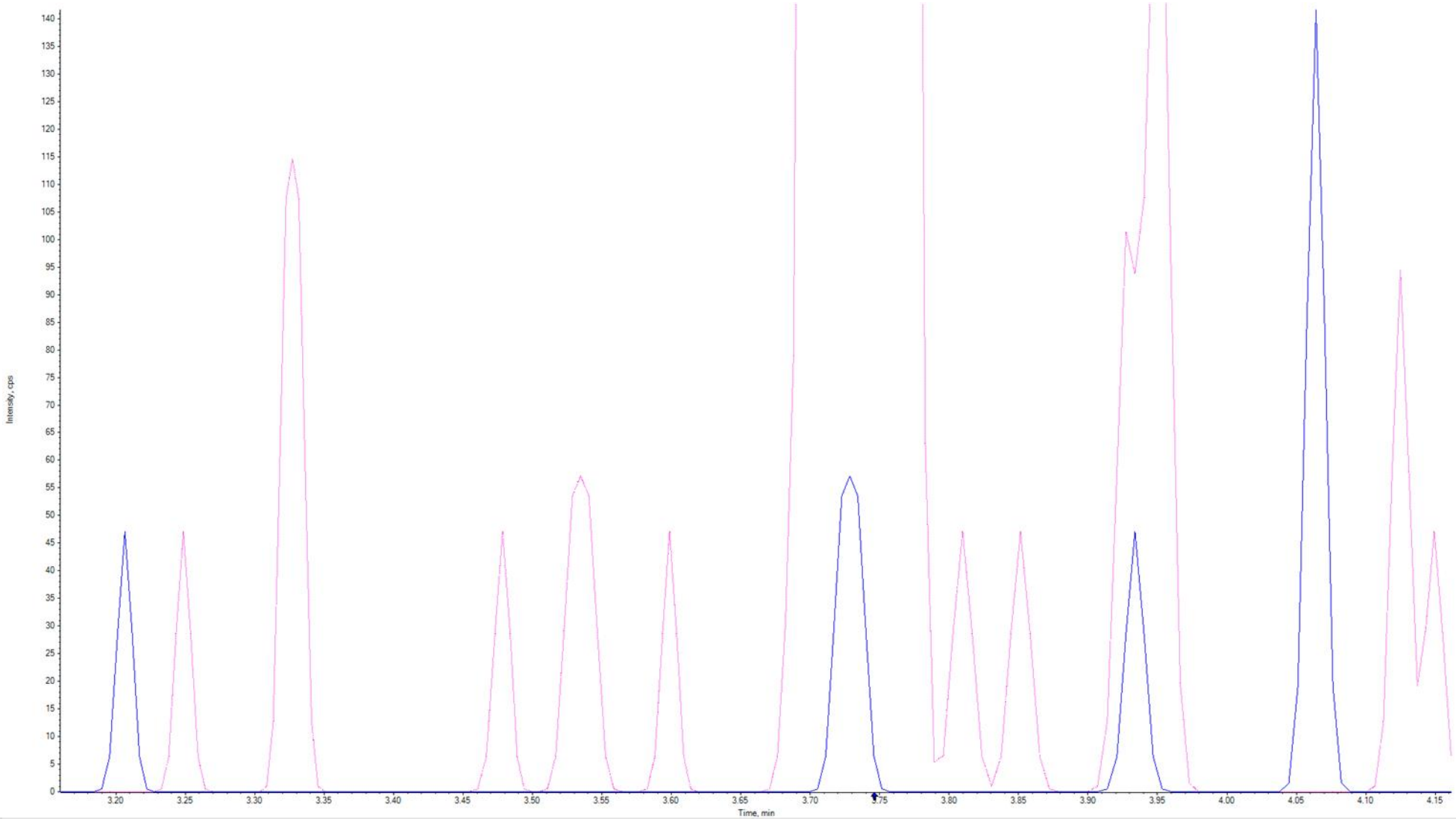

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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8:2FTS_2
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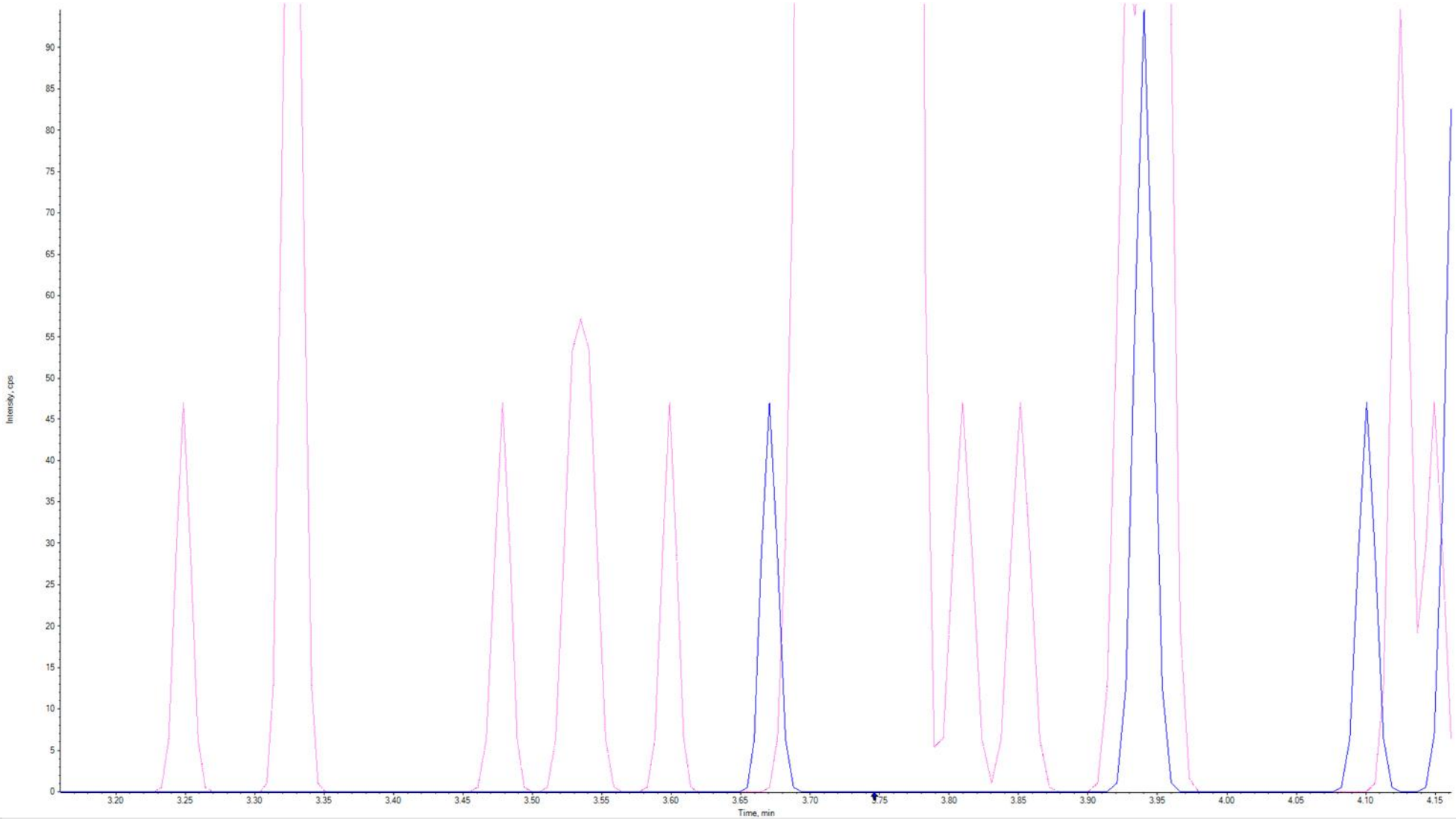

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Alpha Analytical LLC
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PFOSA
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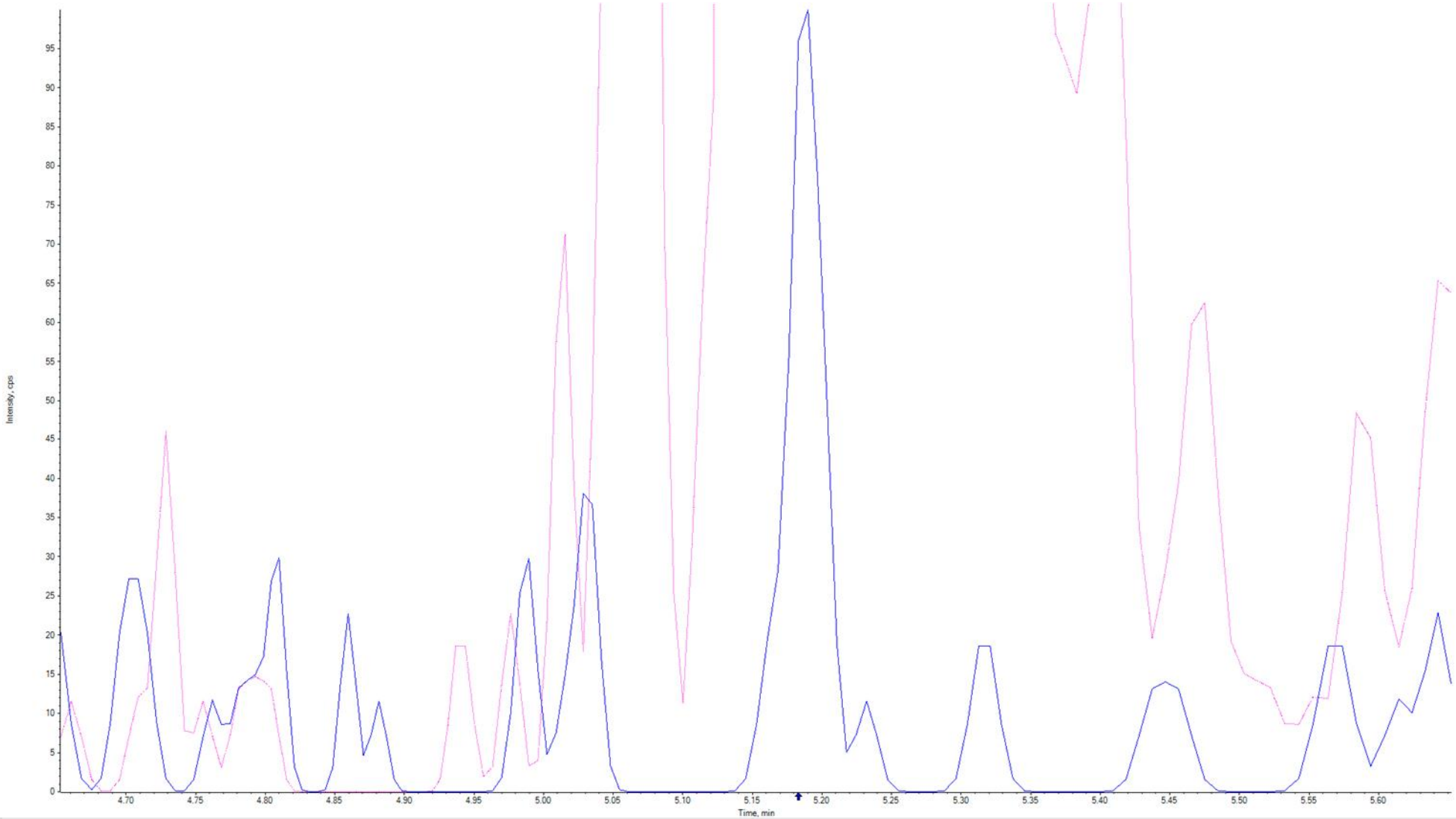

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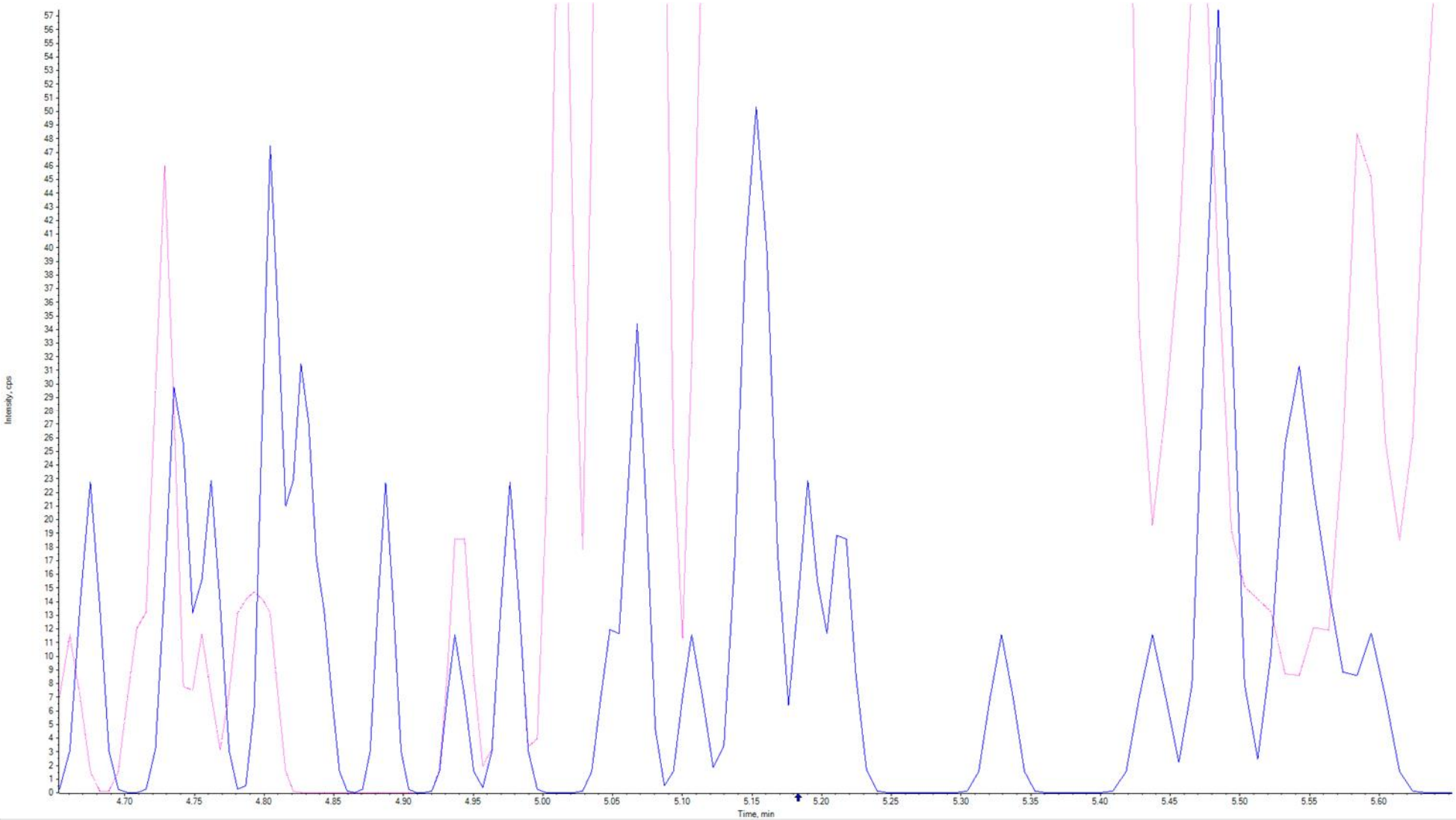
PFOSA_2
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



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Alpha Analytical LLC
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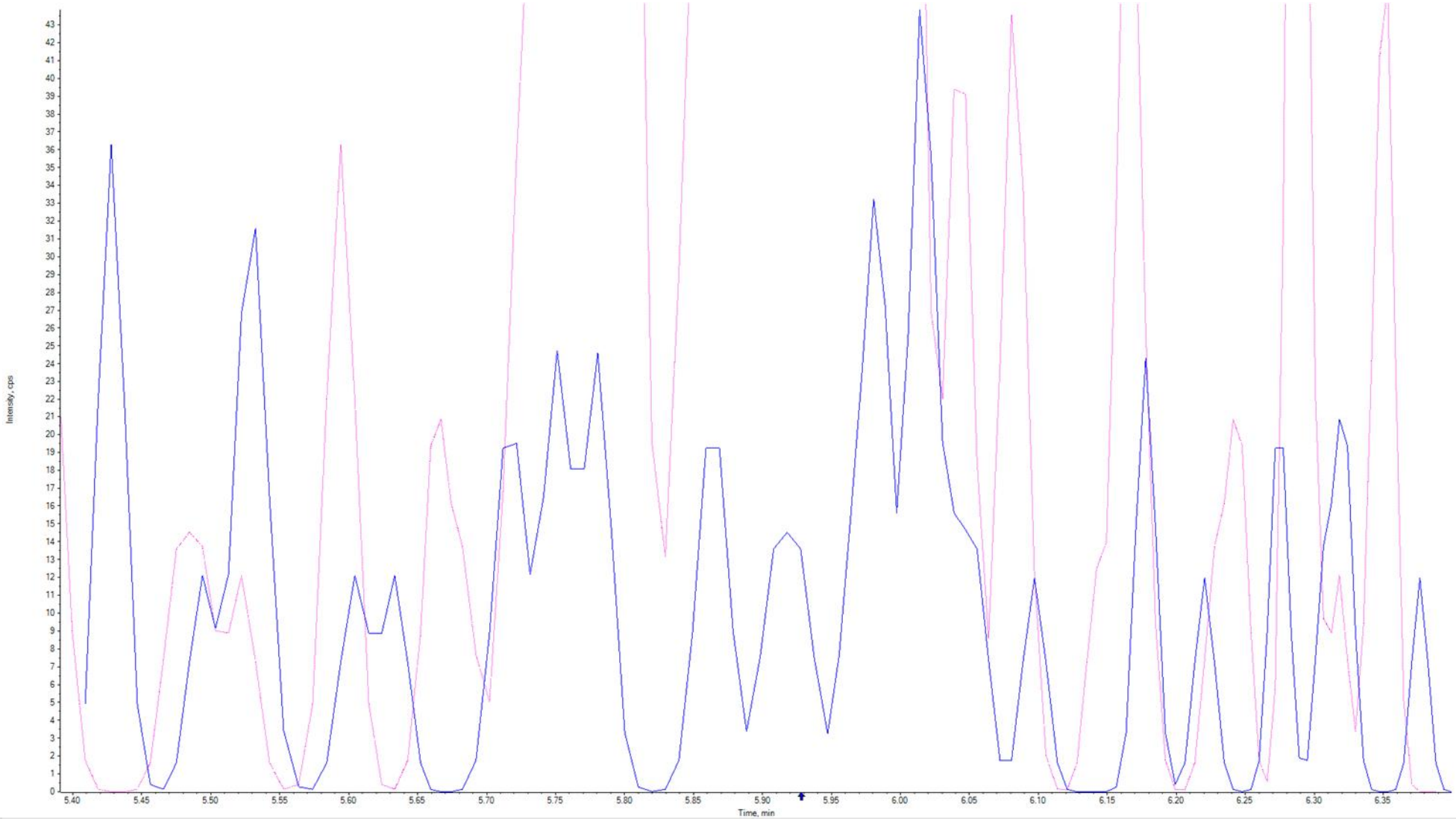
NMeFOSA
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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NMeFOSA_2
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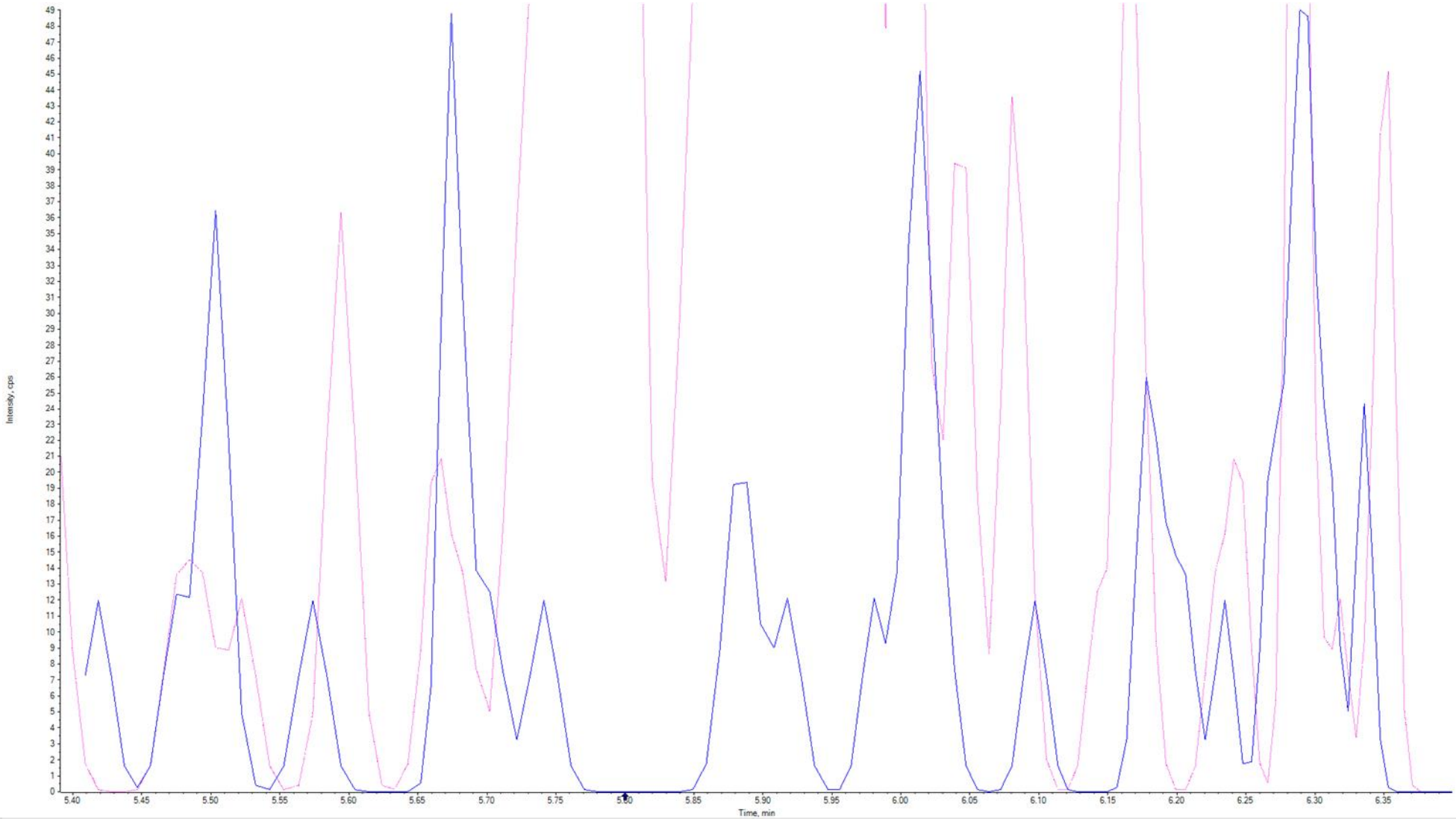

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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Generated: 12/20/2024 10:43:43 AM

NEtFOSA
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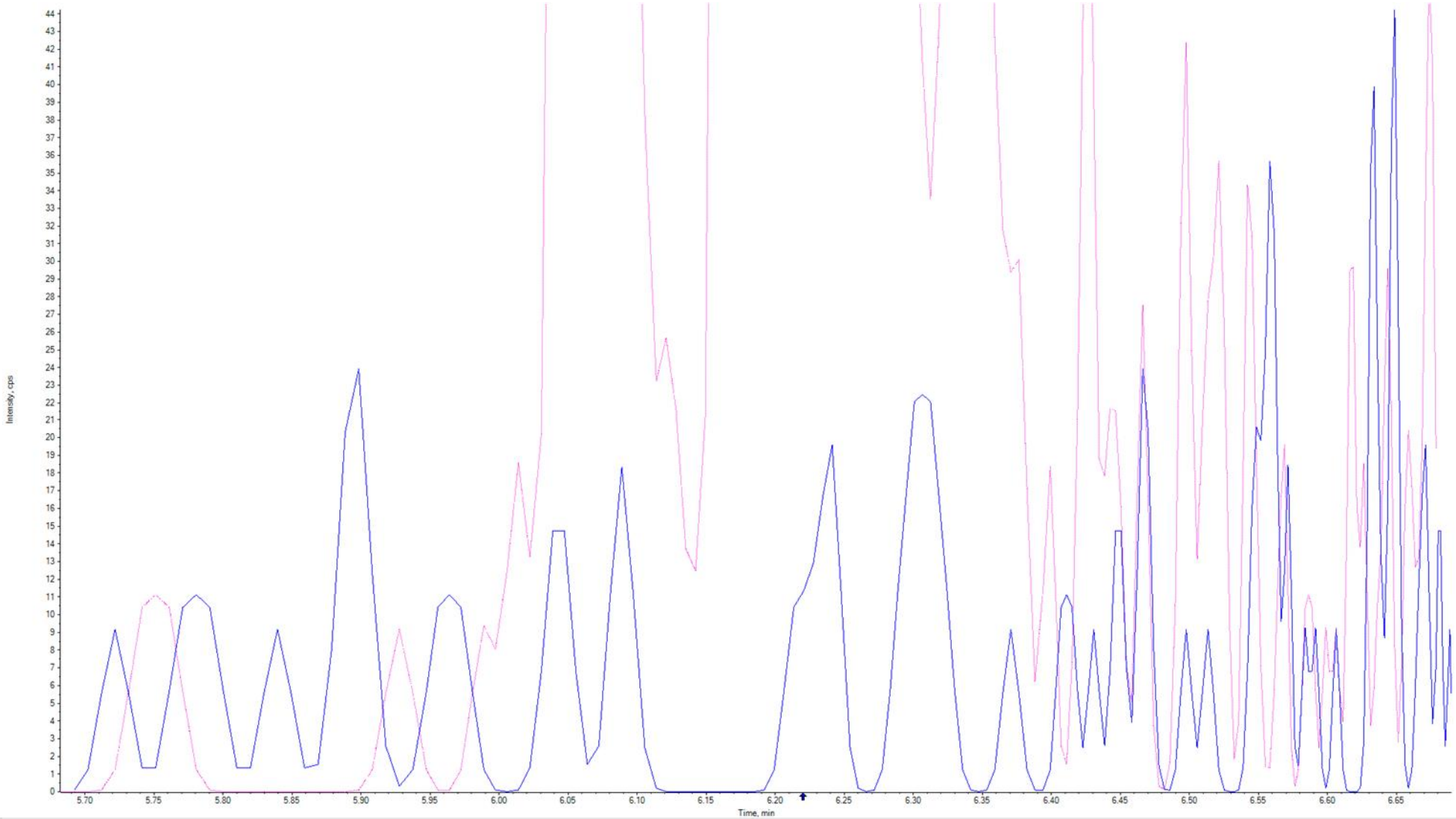

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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NEtFOSA_2
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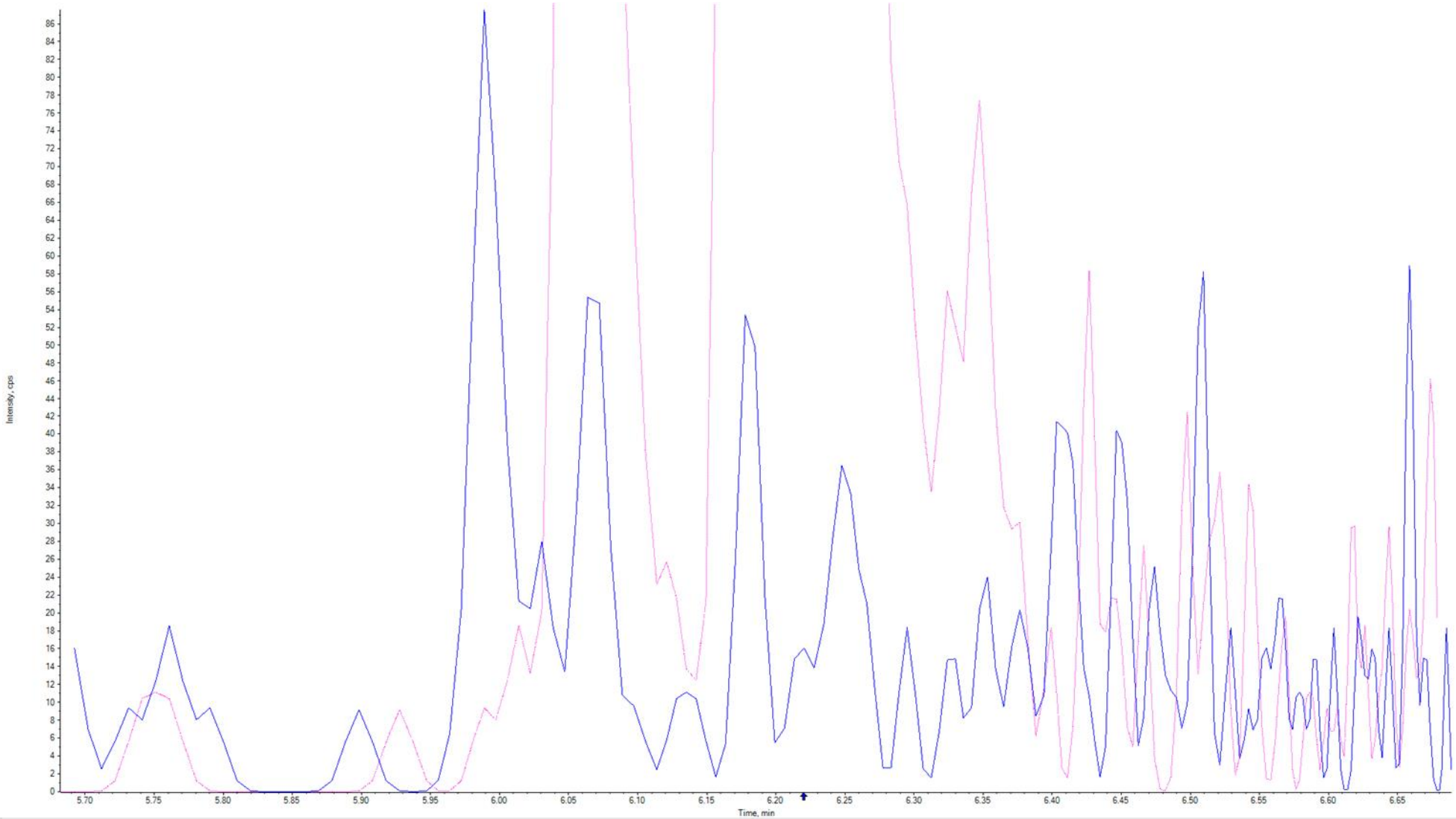

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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NMeFOSAA
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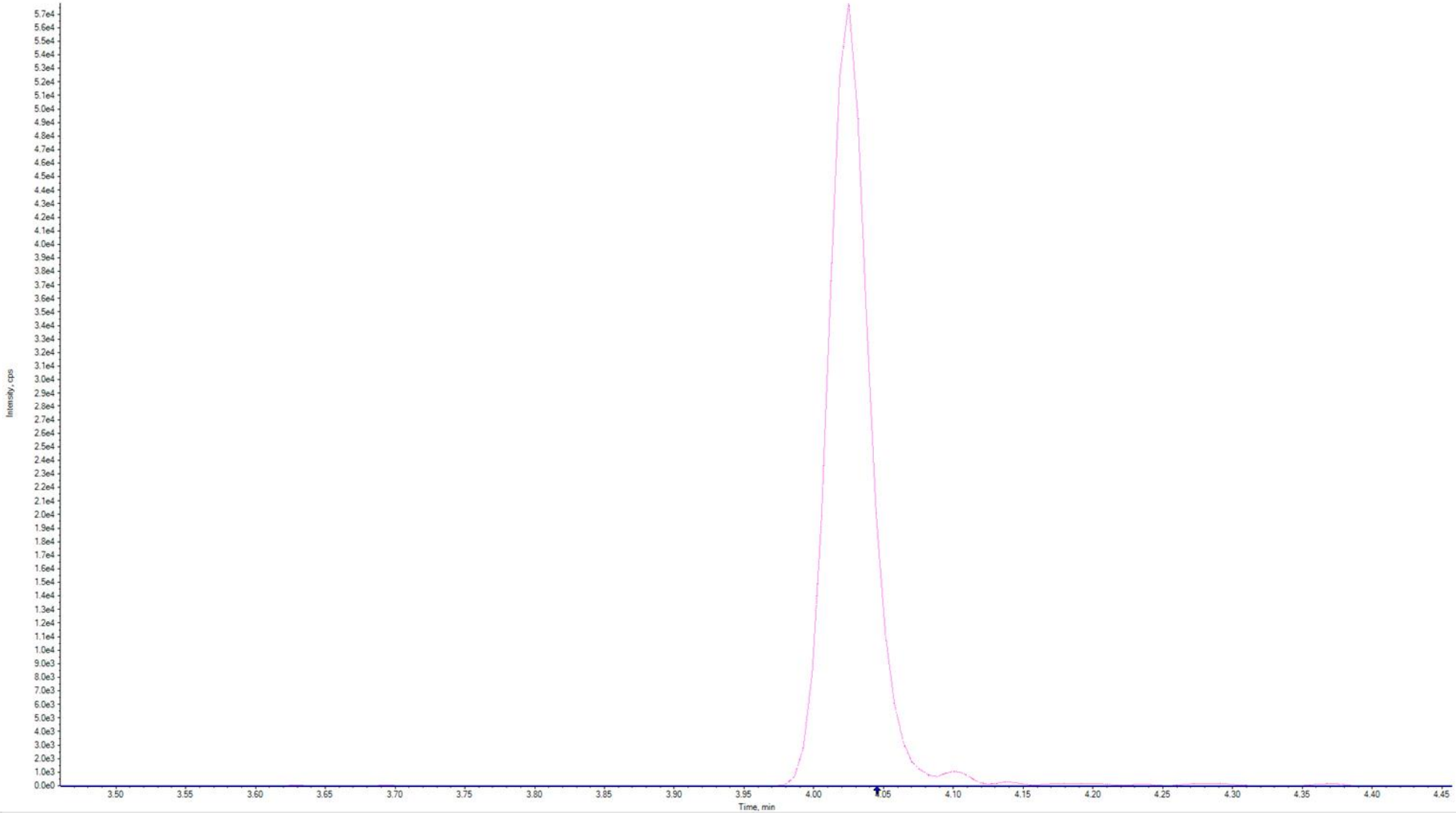

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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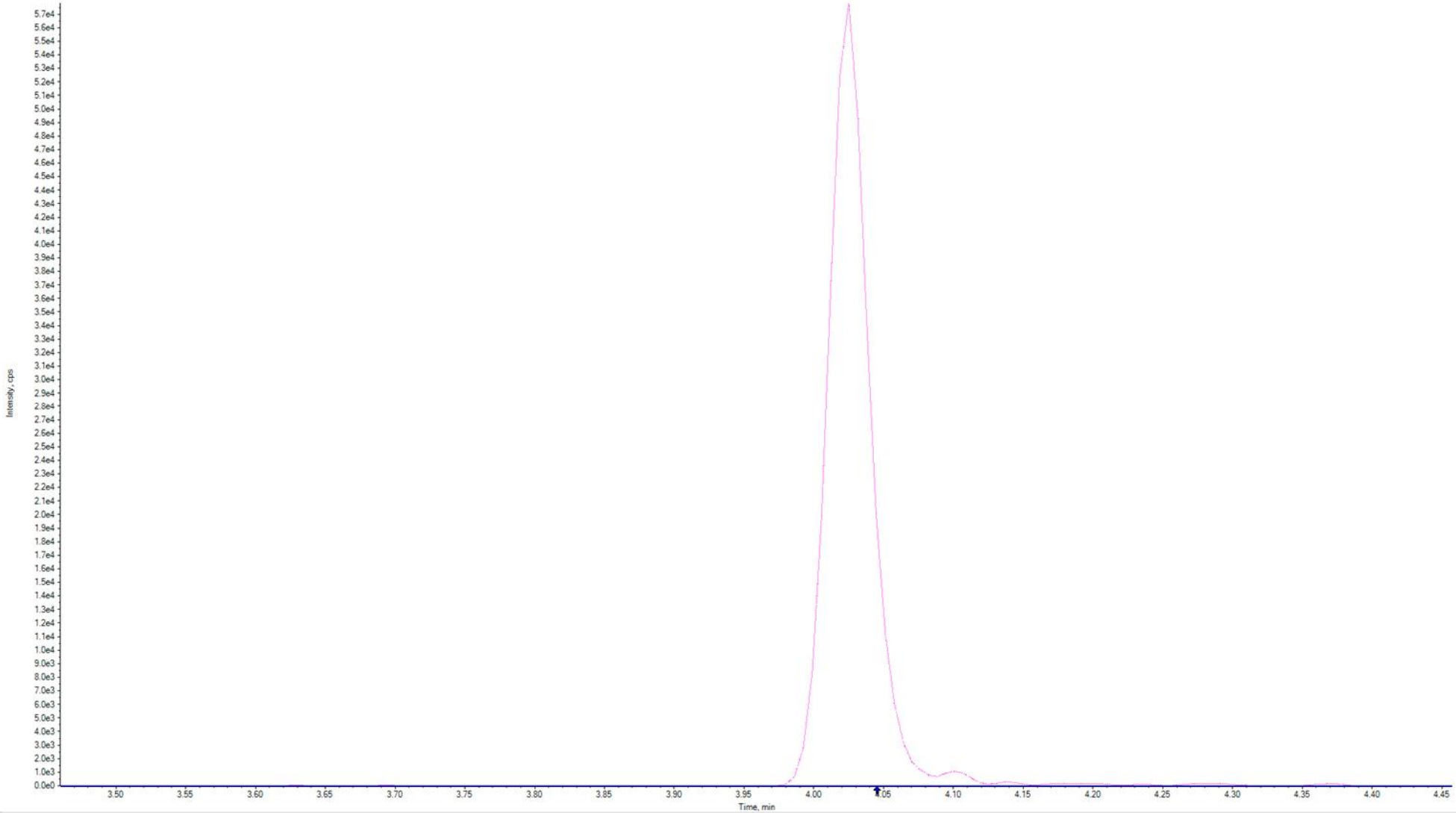

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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NEtFOSAA
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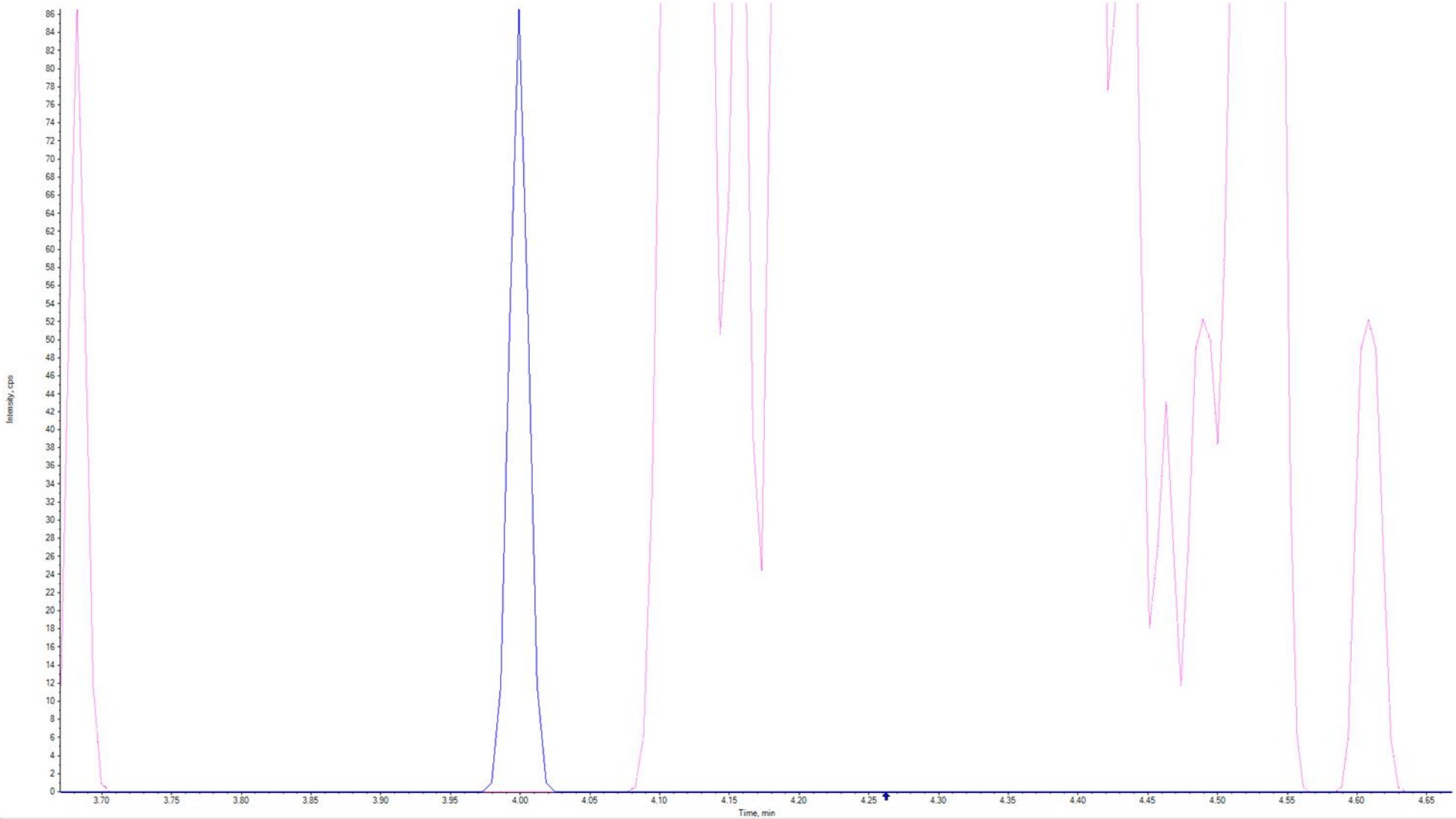

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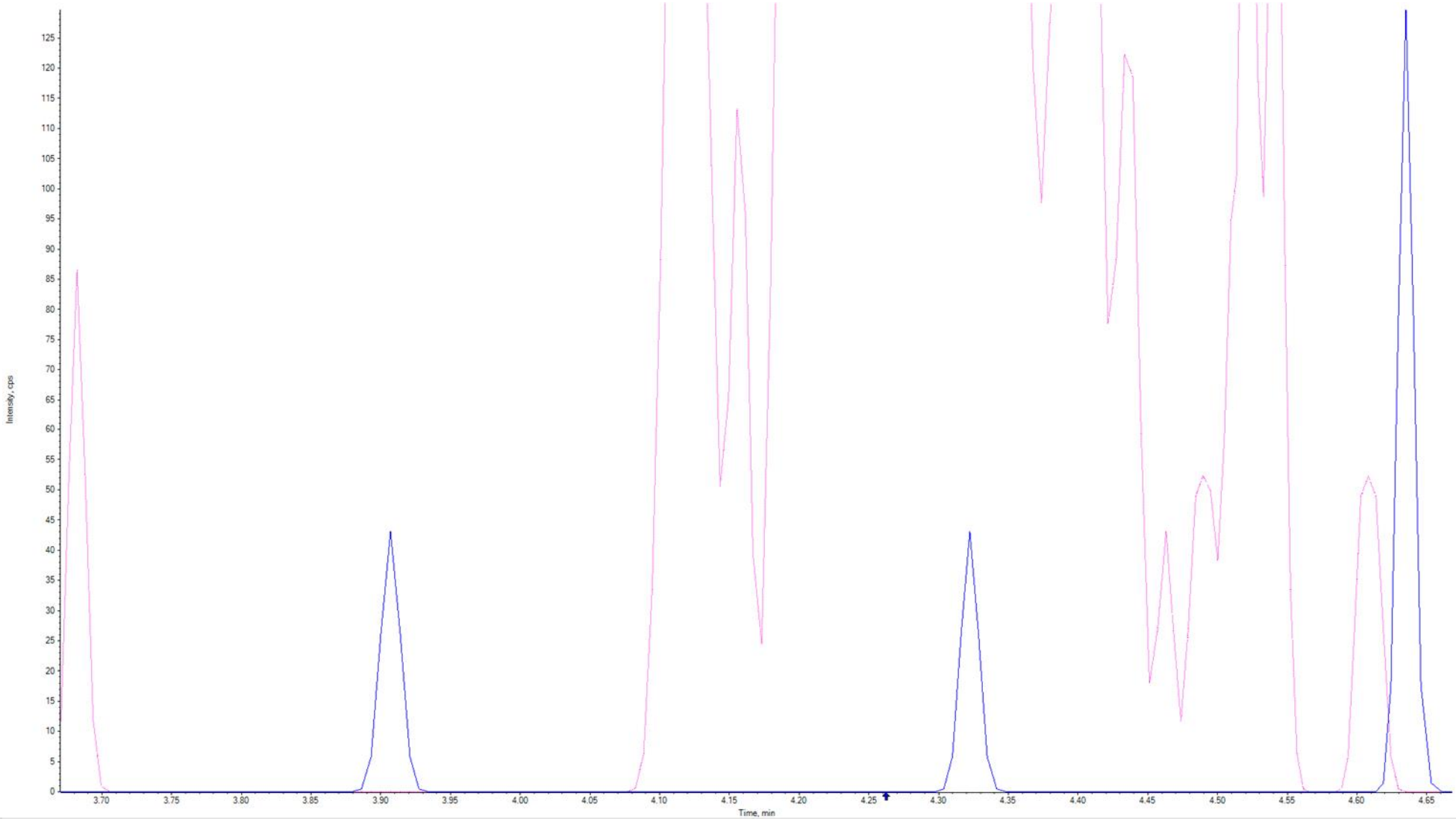
NEtFOSAA_2
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



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NMeFOSE
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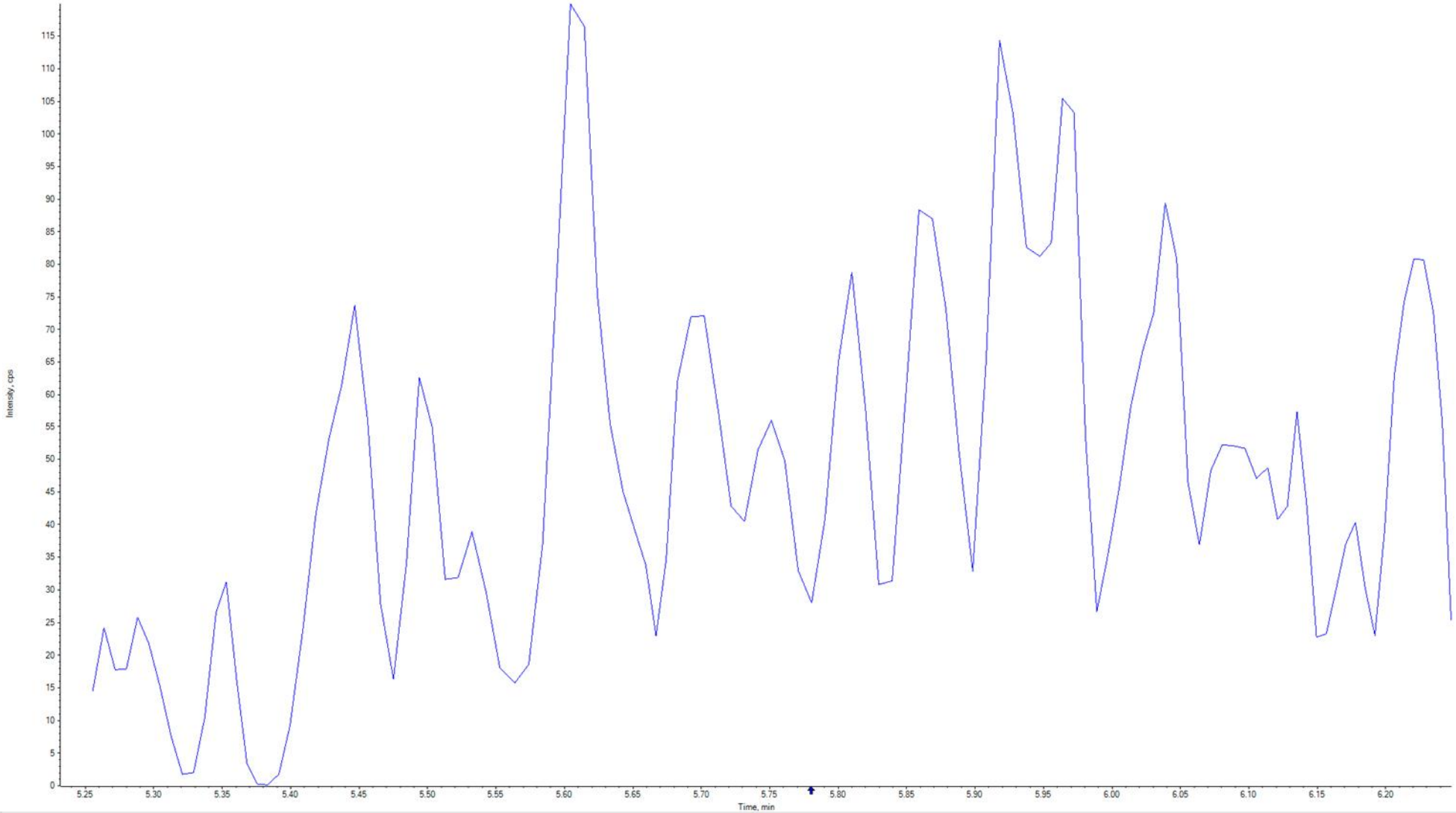

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NEtFOSE
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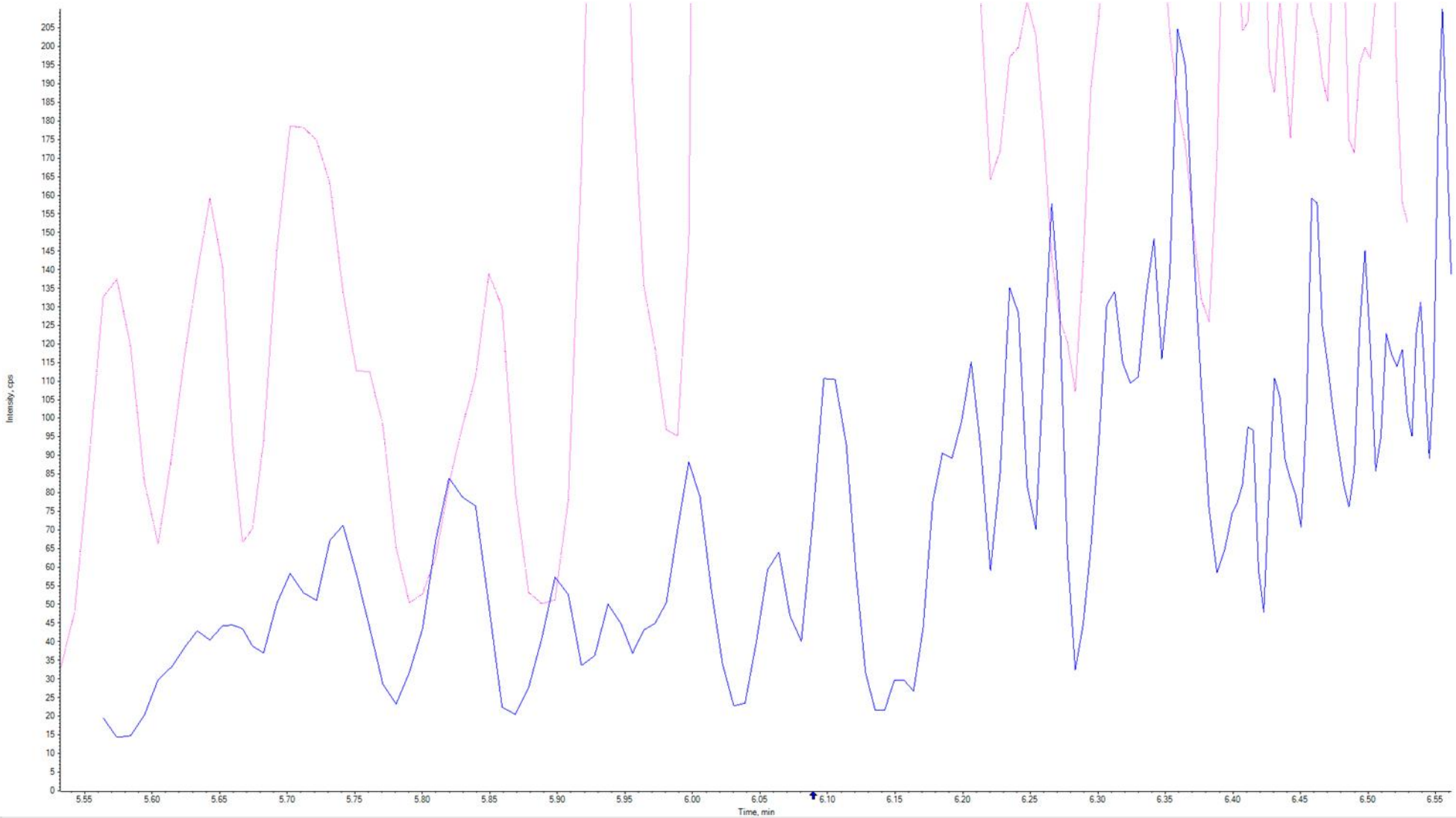

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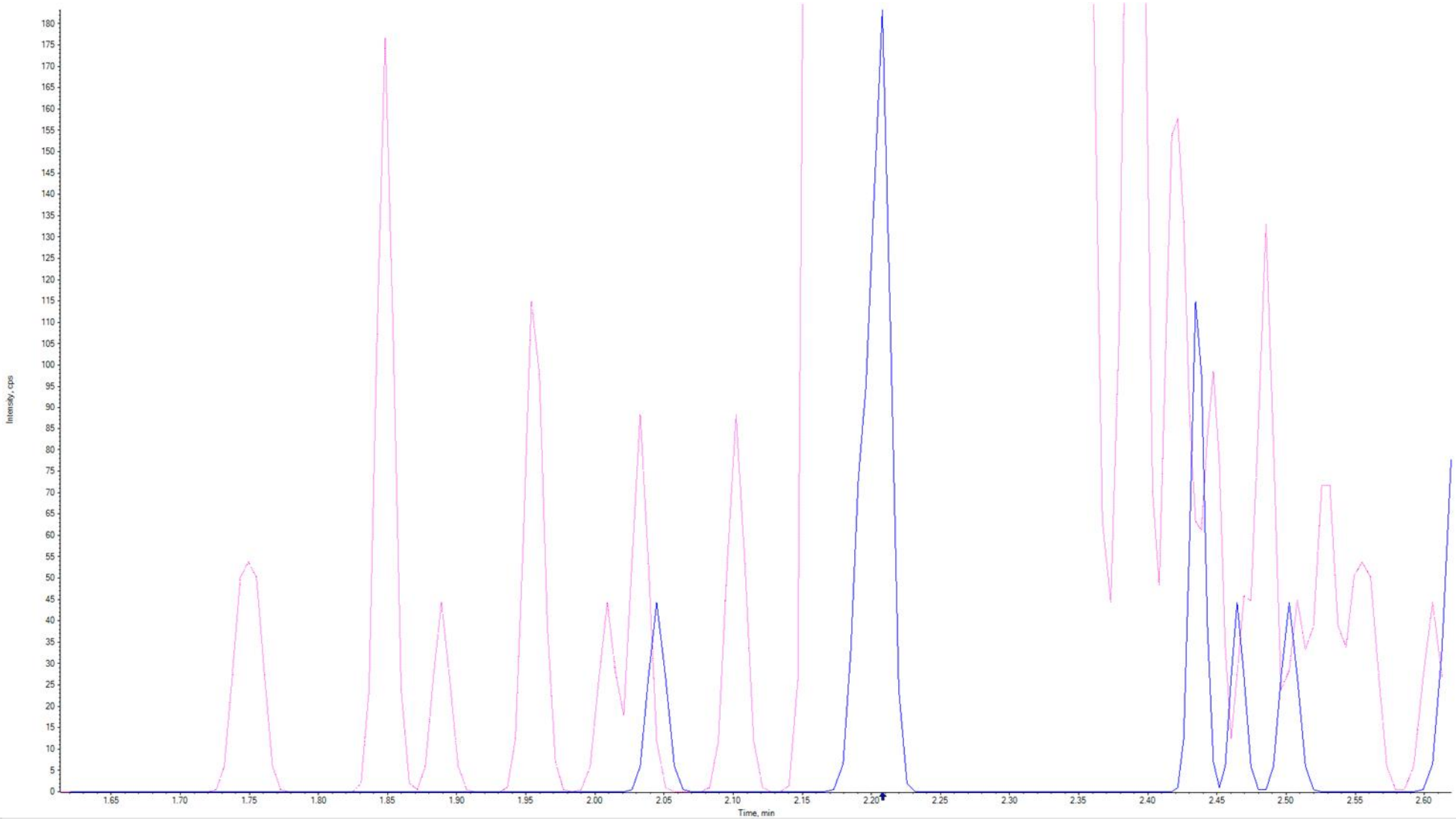
HFPO-DA
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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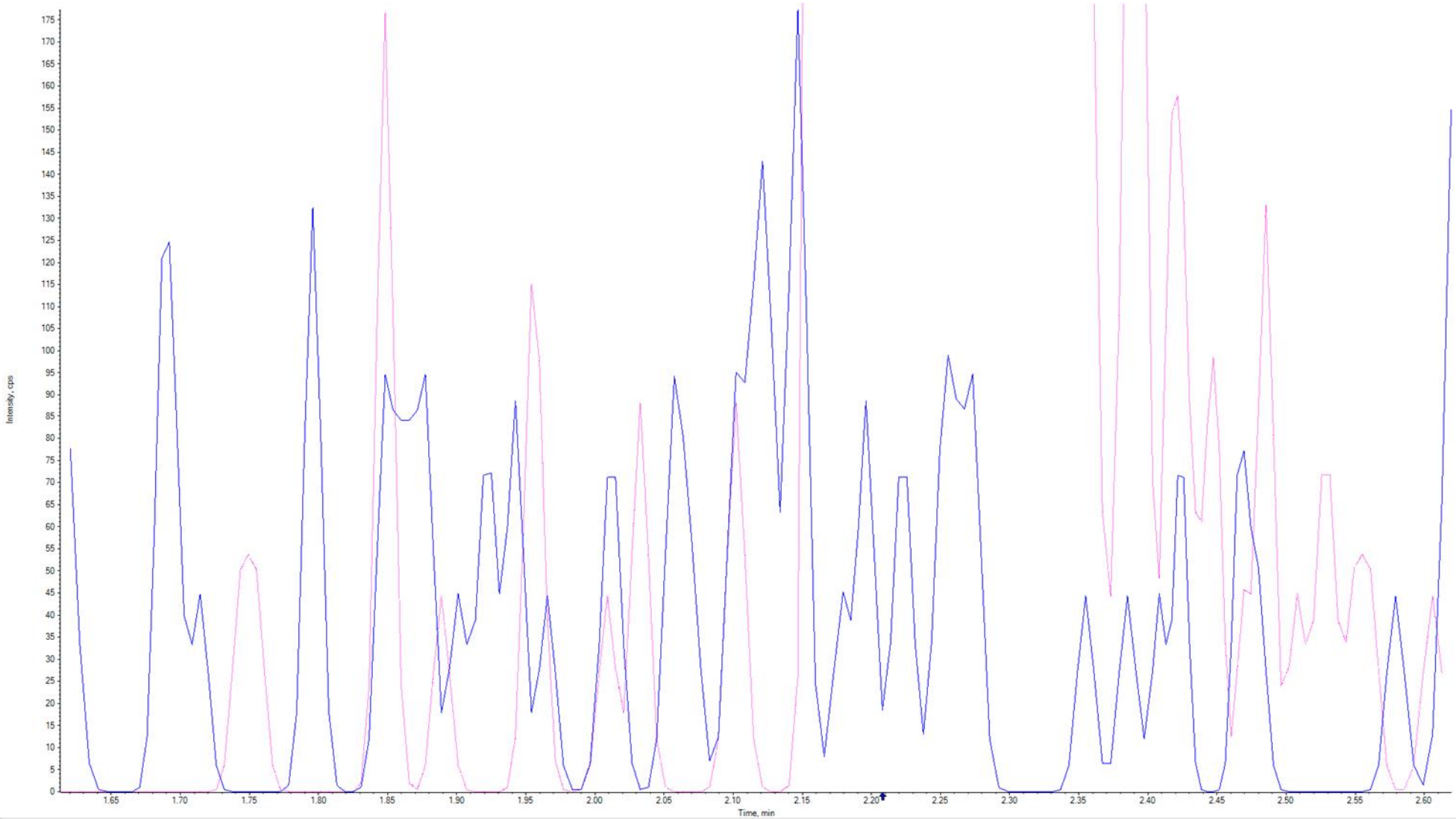
HFPO-DA_2
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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ADONA
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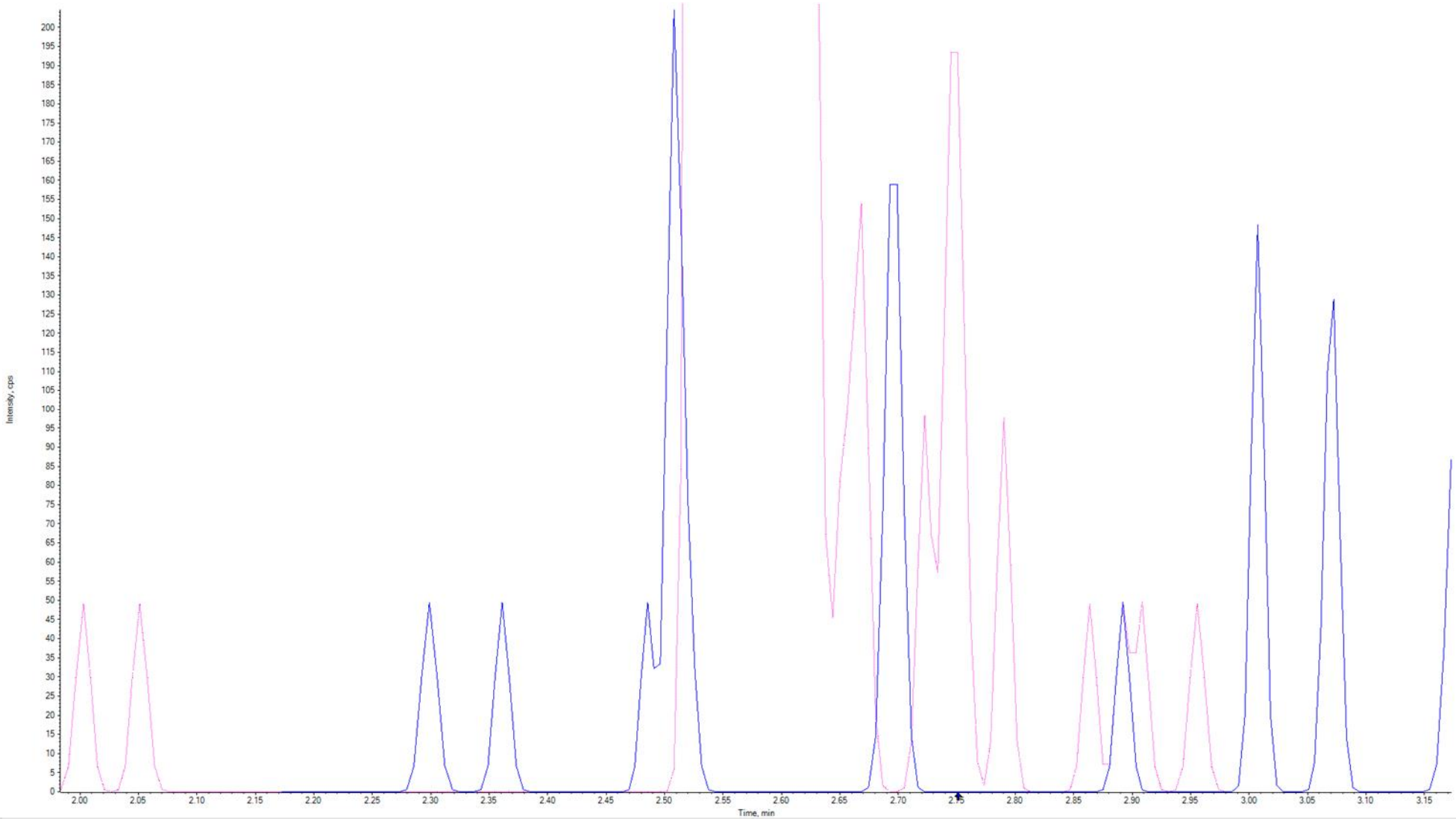

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ADONA_2
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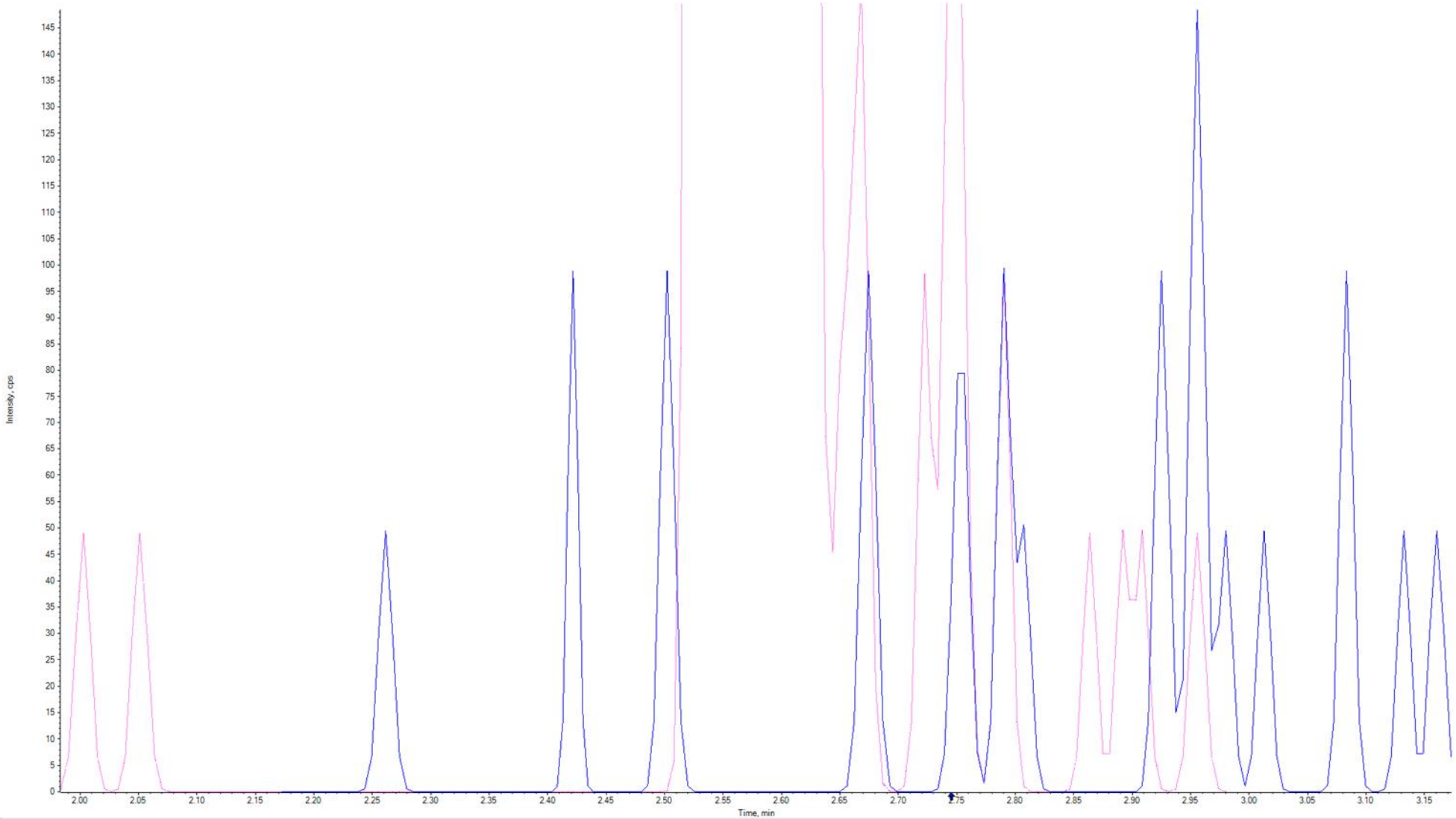

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9Cl-PF3ONS
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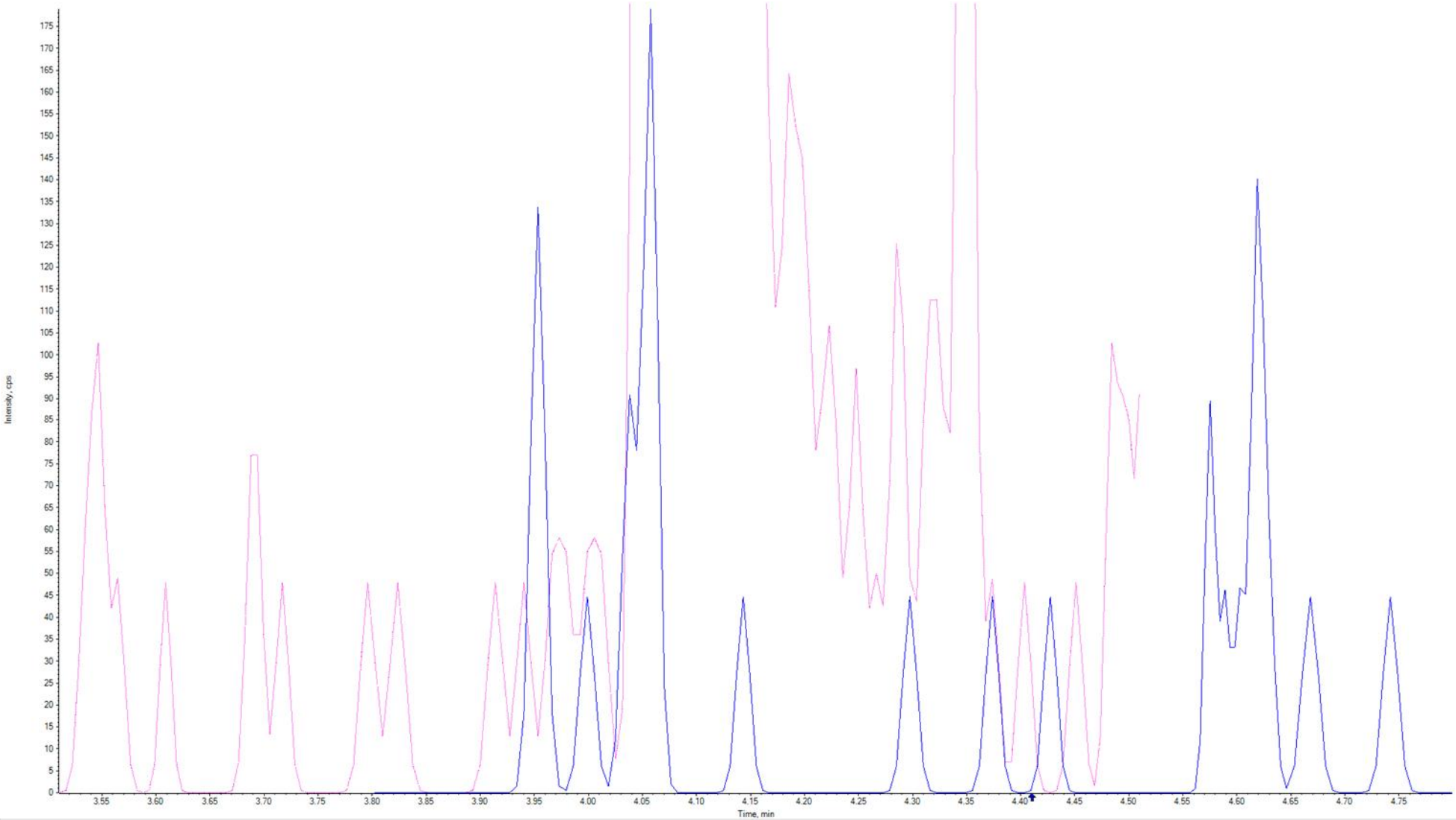

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Alpha Analytical LLC
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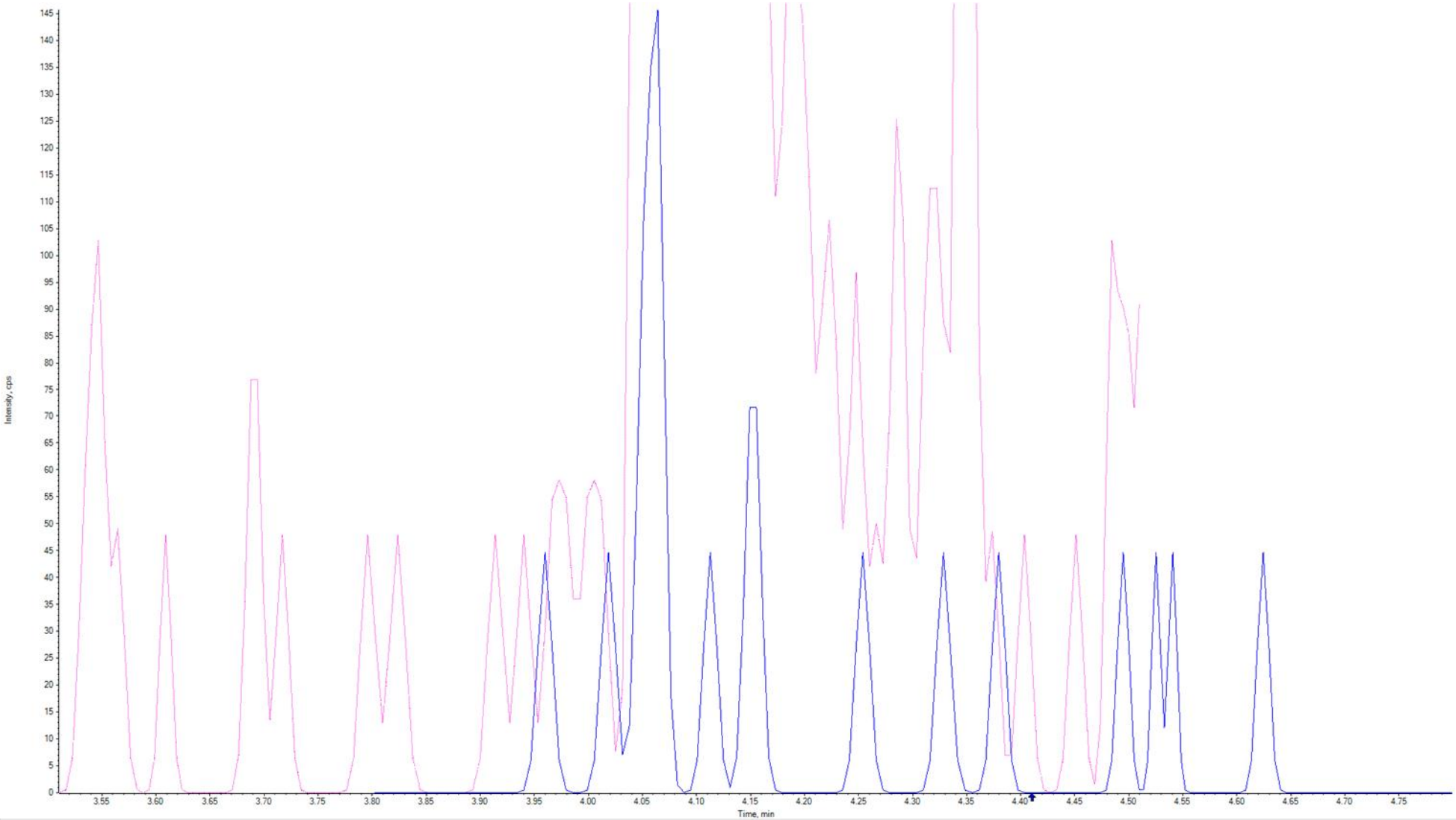
9Cl-PF3ONS_2
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



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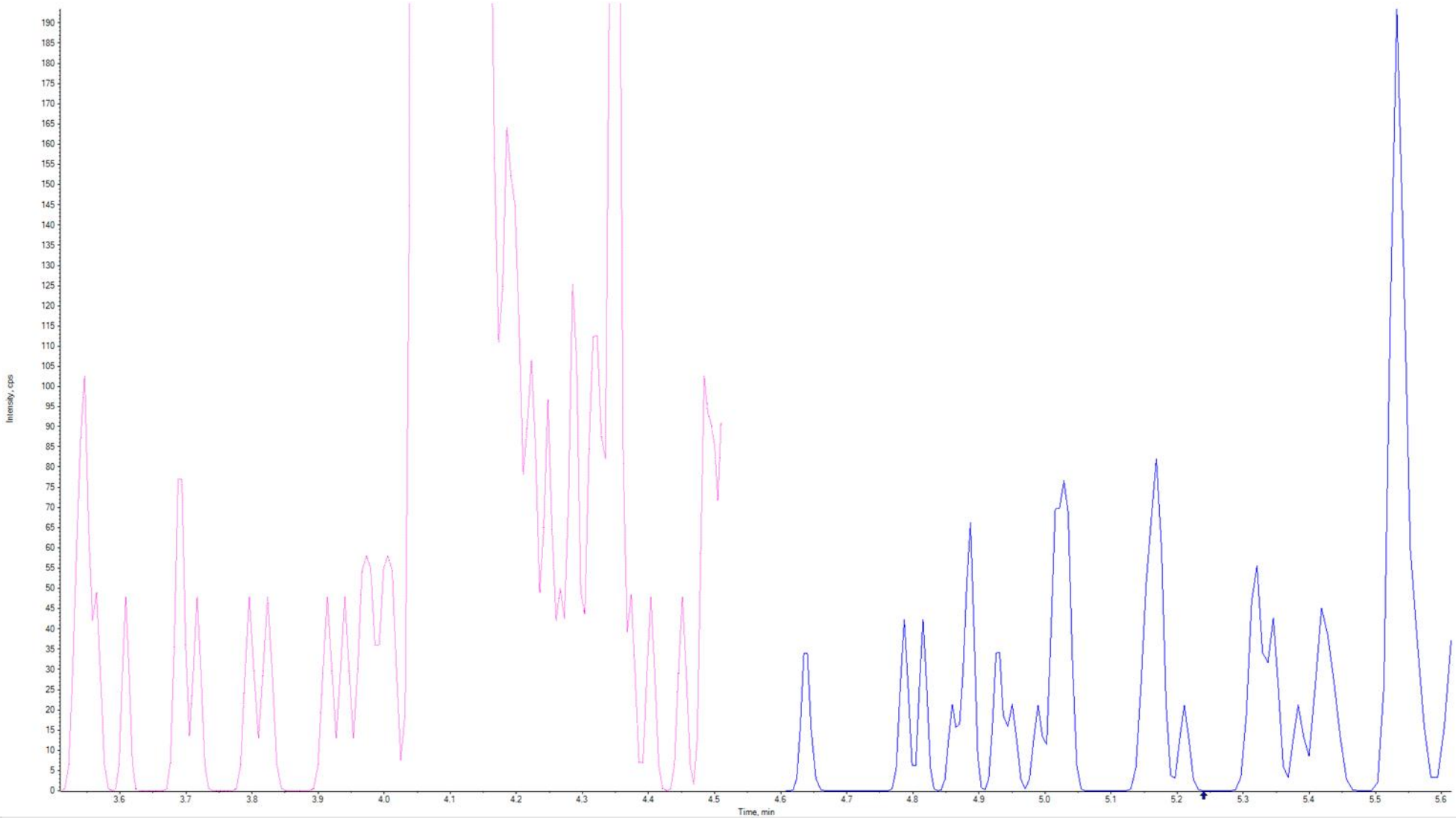
11Cl-PF3OUdS
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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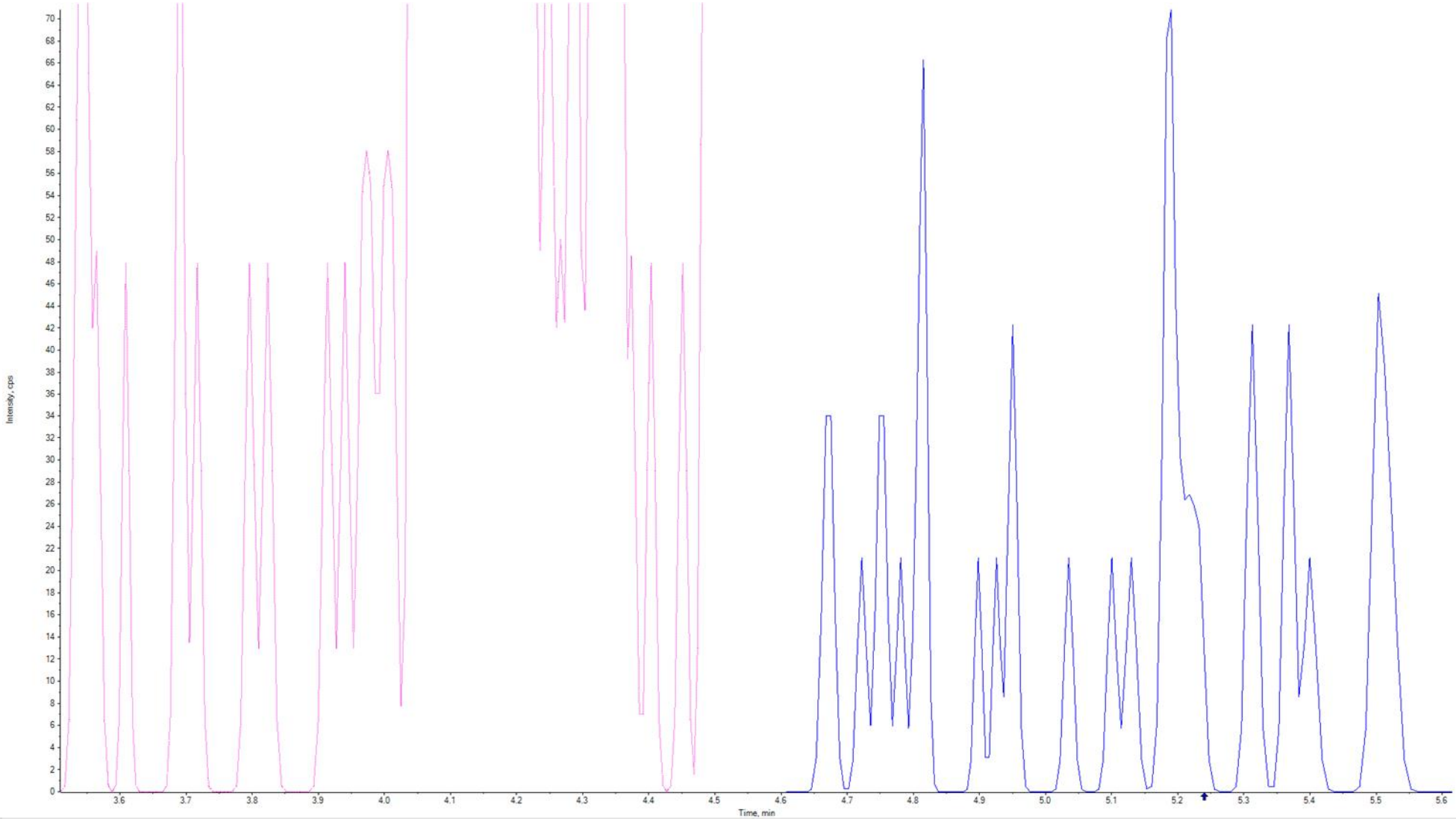
11Cl-PF3OUdS_2
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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Last Altered: 12/20/2024 12:41:04 PM
Generated: 12/20/2024 10:43:43 AM

3:3FTCA
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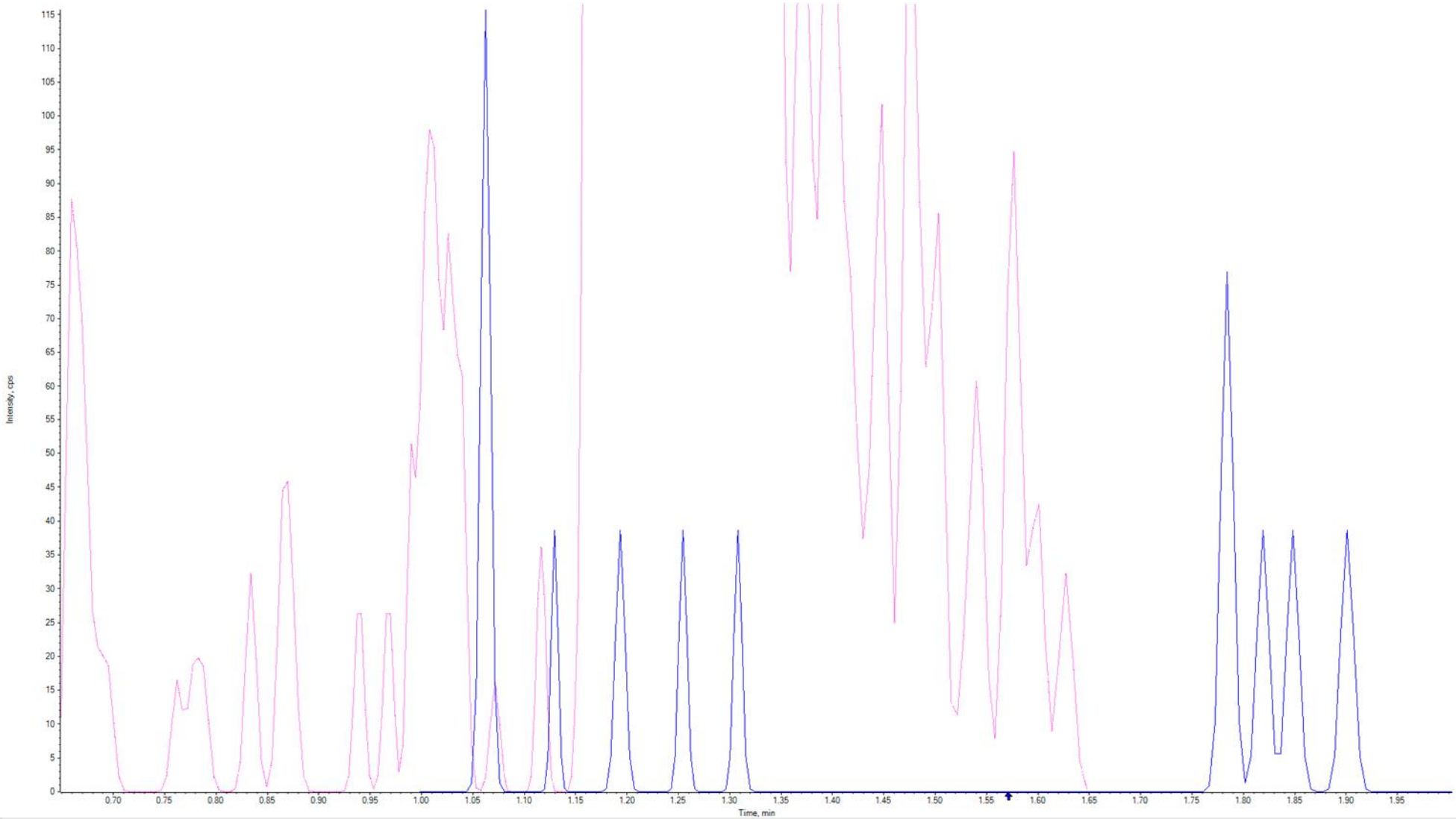

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3:3FTCA_2
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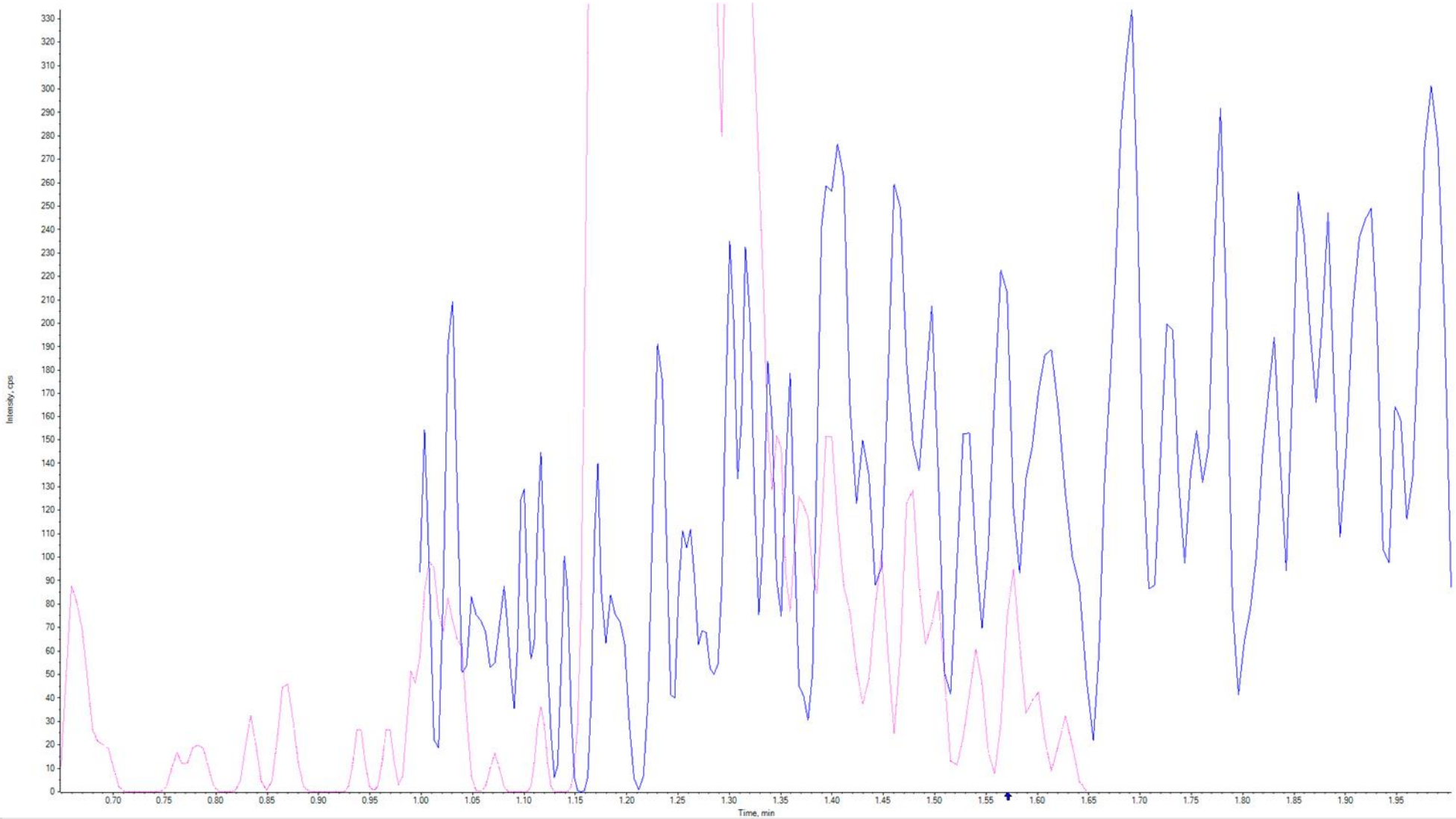

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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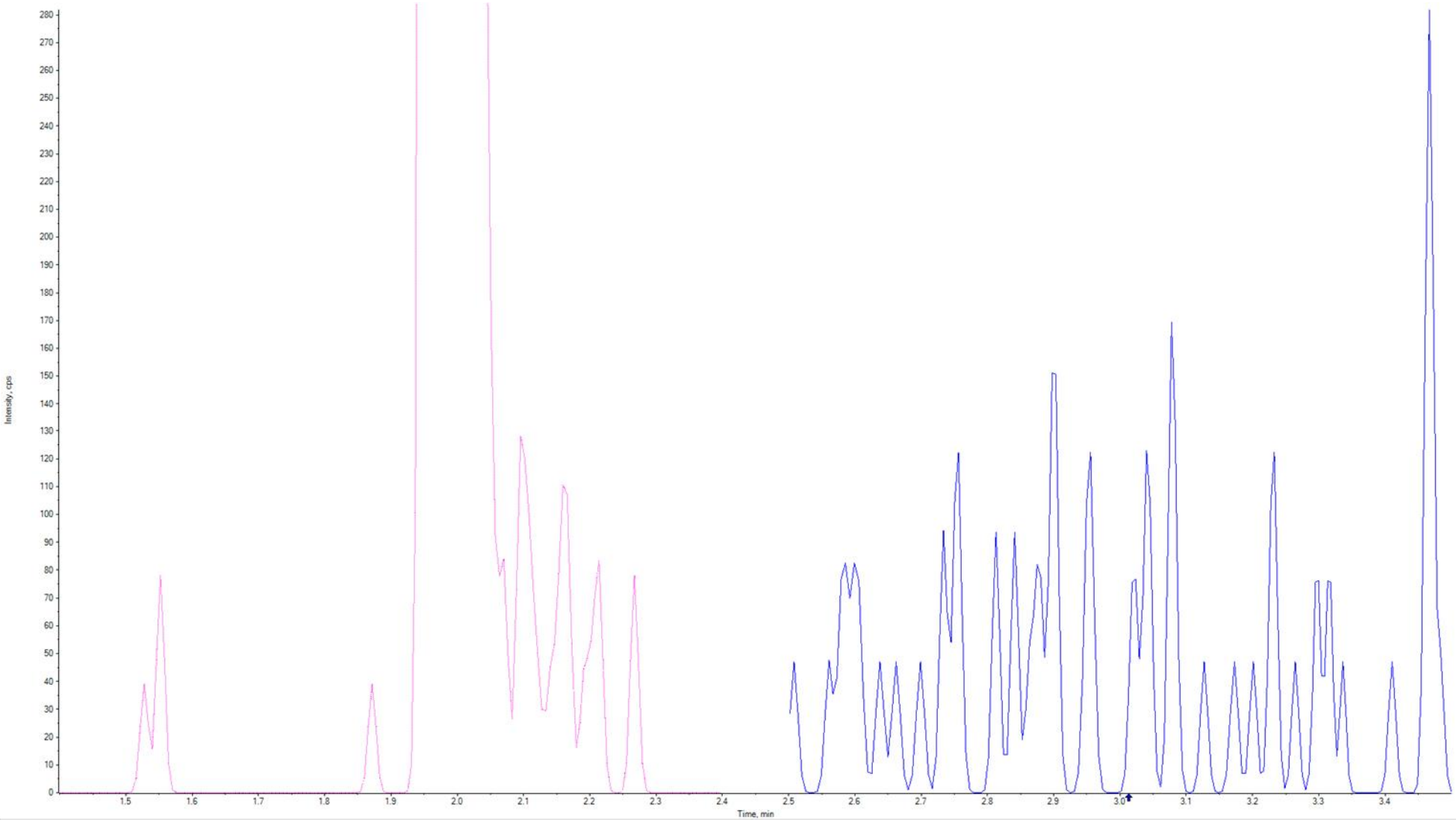
Last Altered: 12/20/2024 12:41:04 PM
Generated: 12/20/2024 10:43:43 AM

5:3FTCA
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



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Last Altered: 12/20/2024 12:41:04 PM
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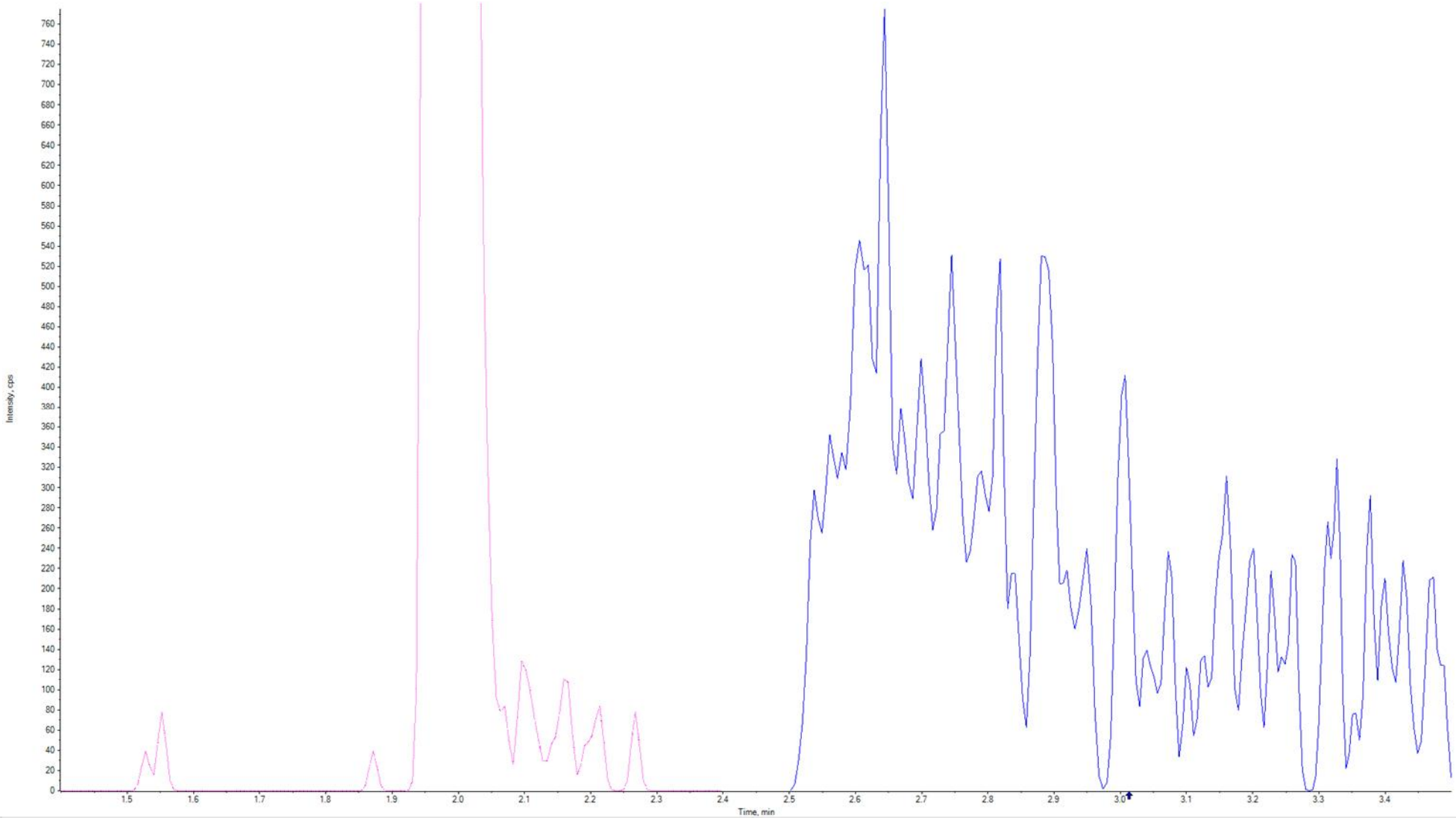
5:3FTCA_2
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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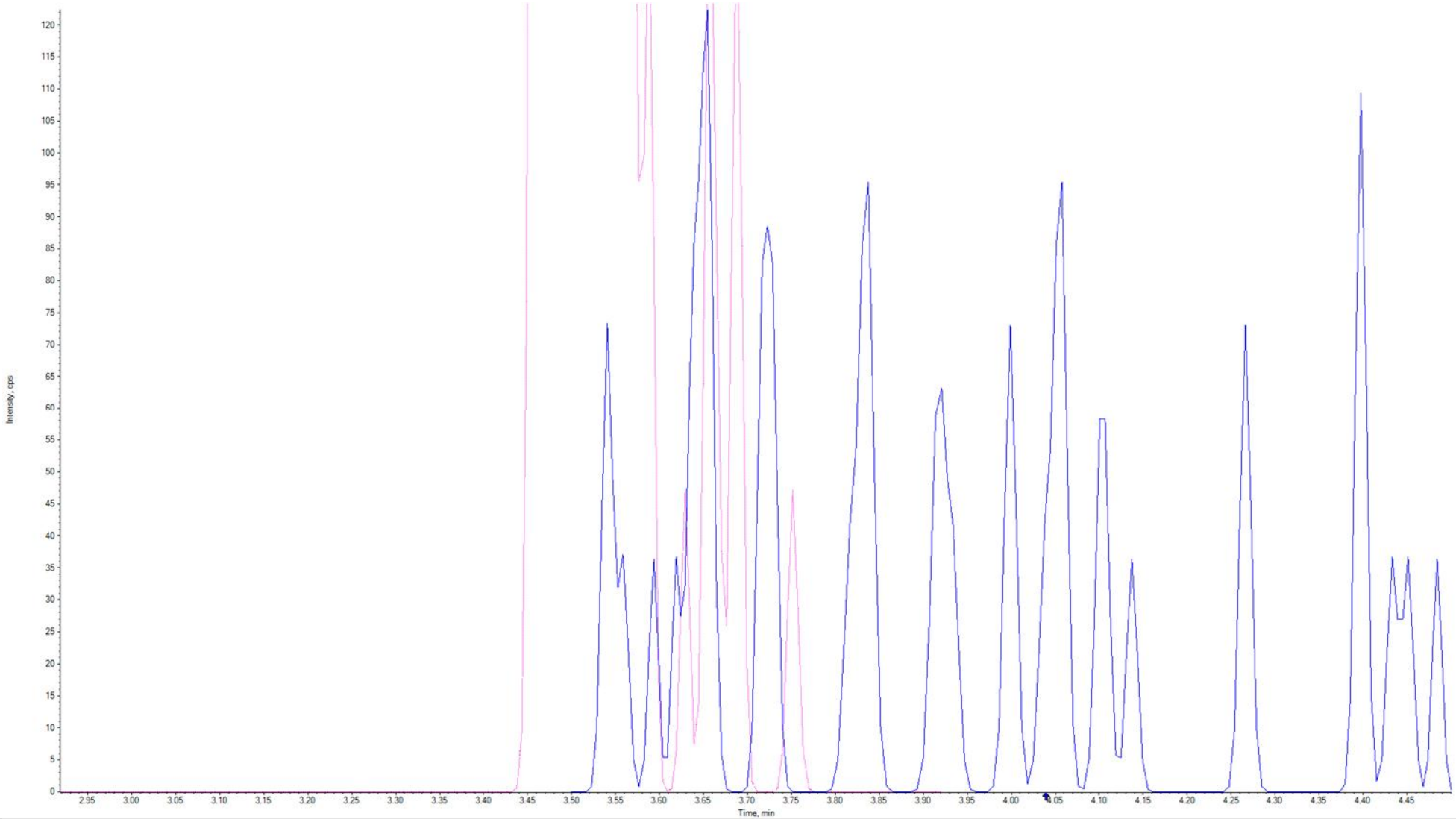
Last Altered: 12/20/2024 12:41:04 PM
Generated: 12/20/2024 10:43:43 AM

7:3FTCA
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
Alpha Analytical LLC
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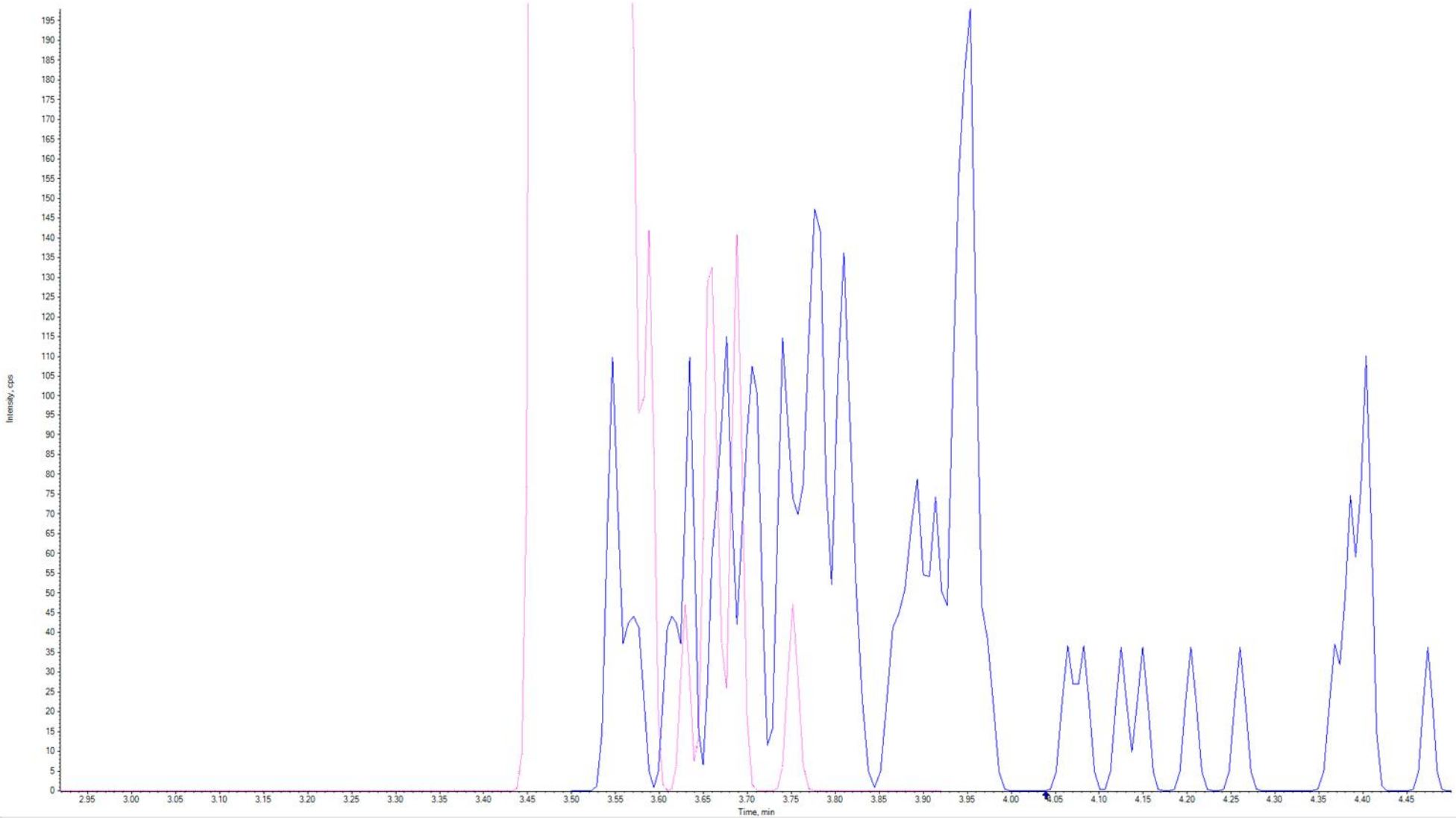
Last Altered: 12/20/2024 12:41:04 PM
Generated: 12/20/2024 10:43:43 AM

7:3FTCA_2
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



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Alpha Analytical LLC
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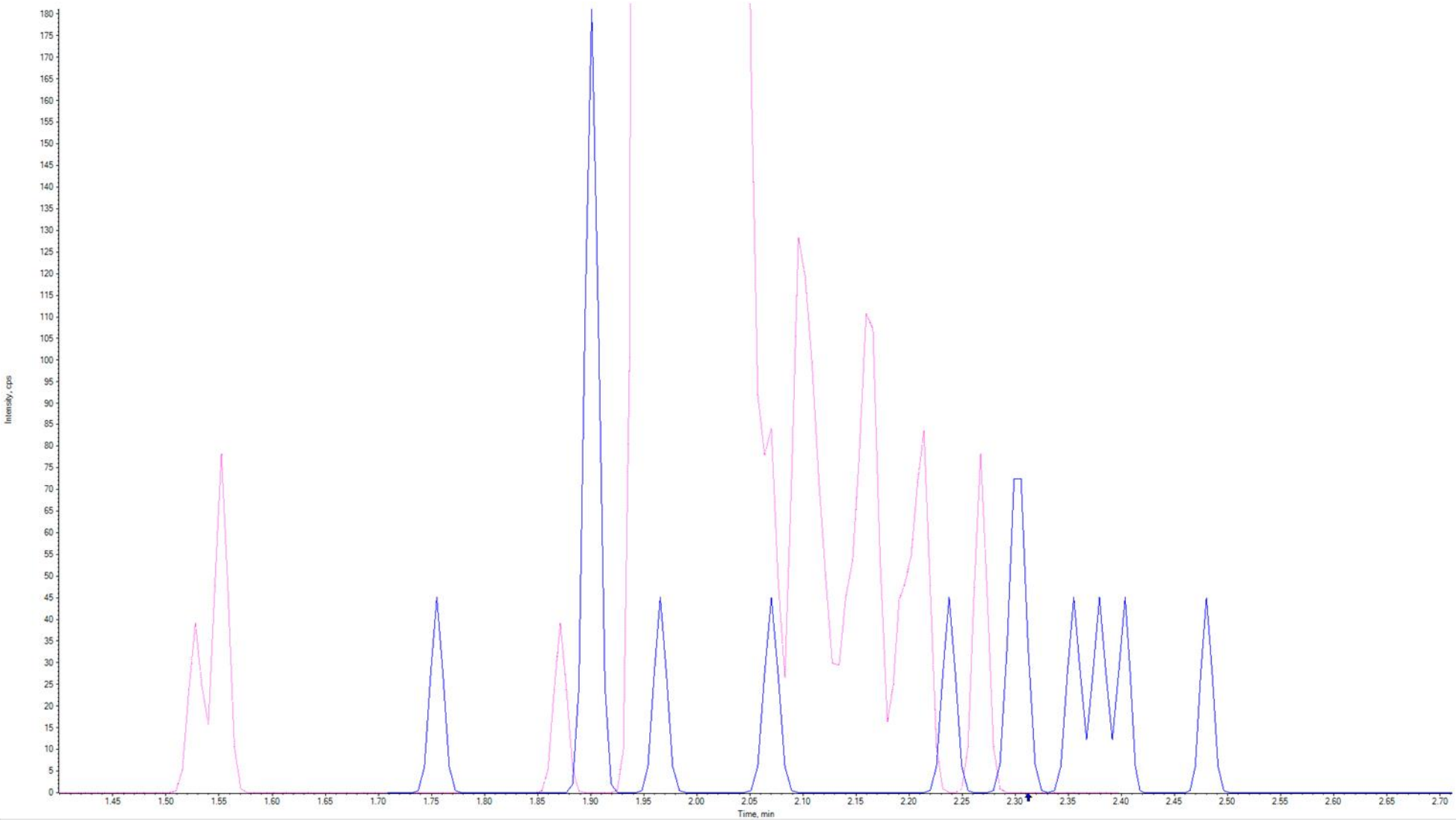
Last Altered: 12/20/2024 12:41:04 PM
Generated: 12/20/2024 10:43:43 AM

PFEESA
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



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PFEESA_2
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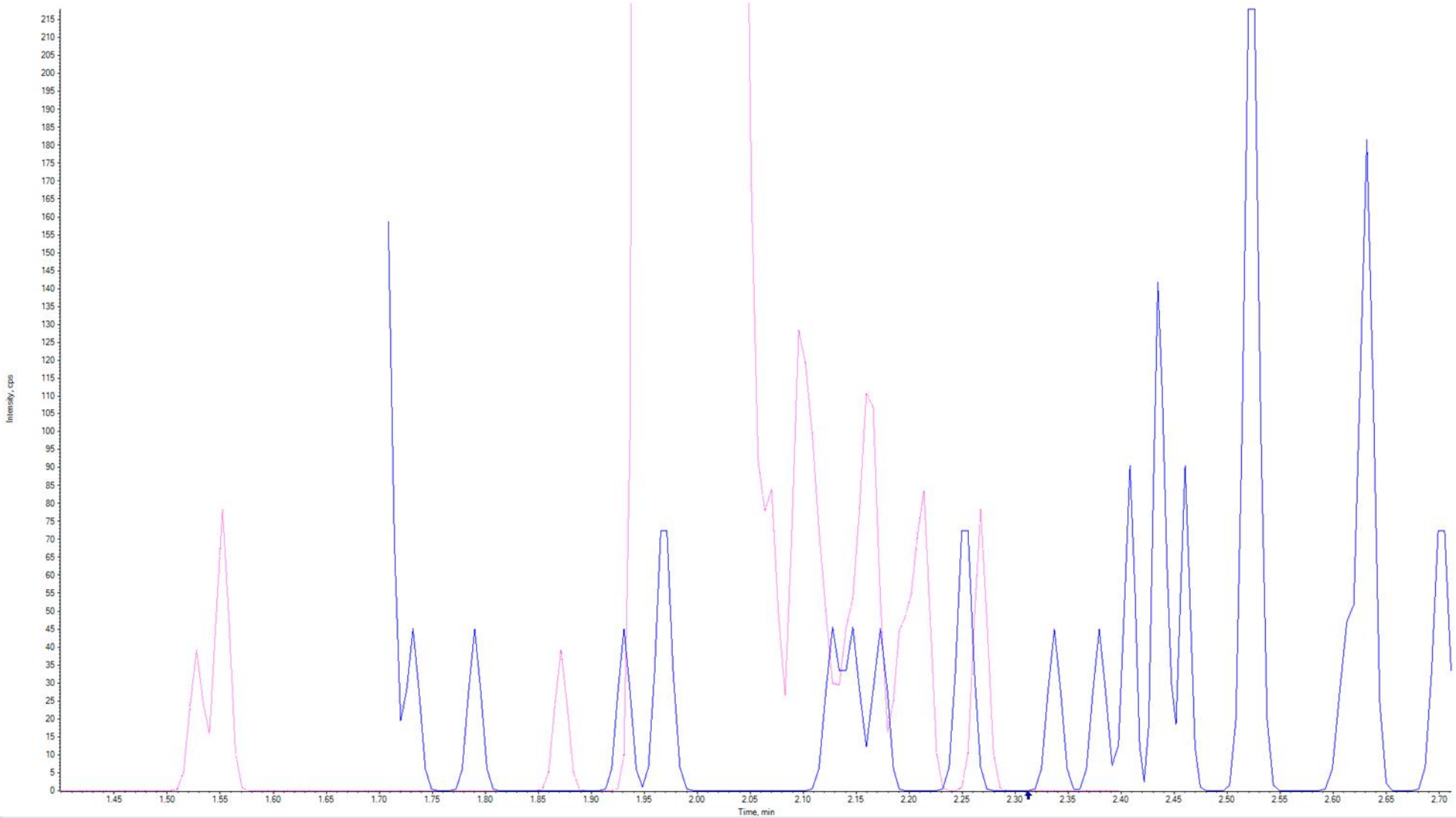

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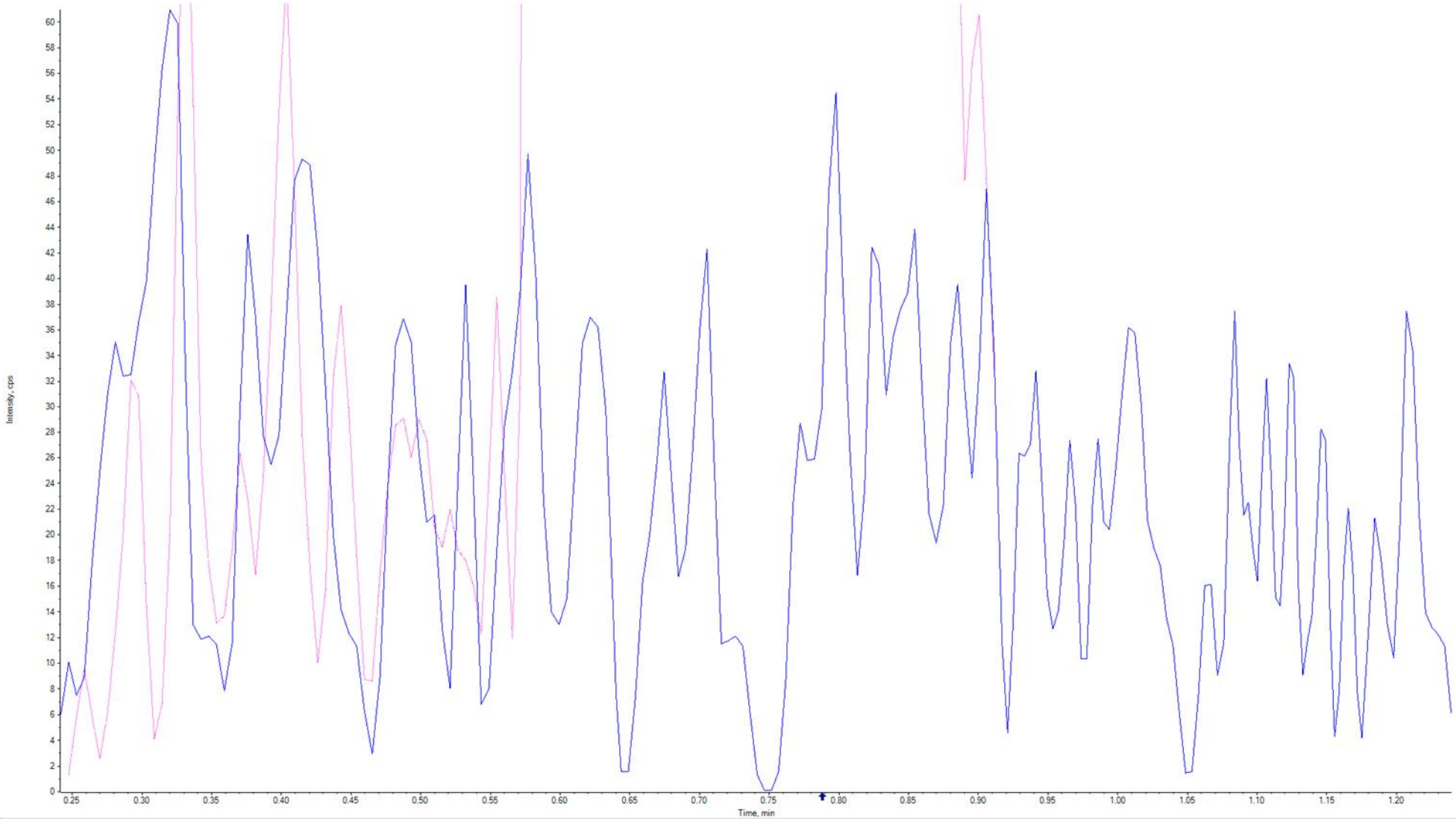
PFMPA
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



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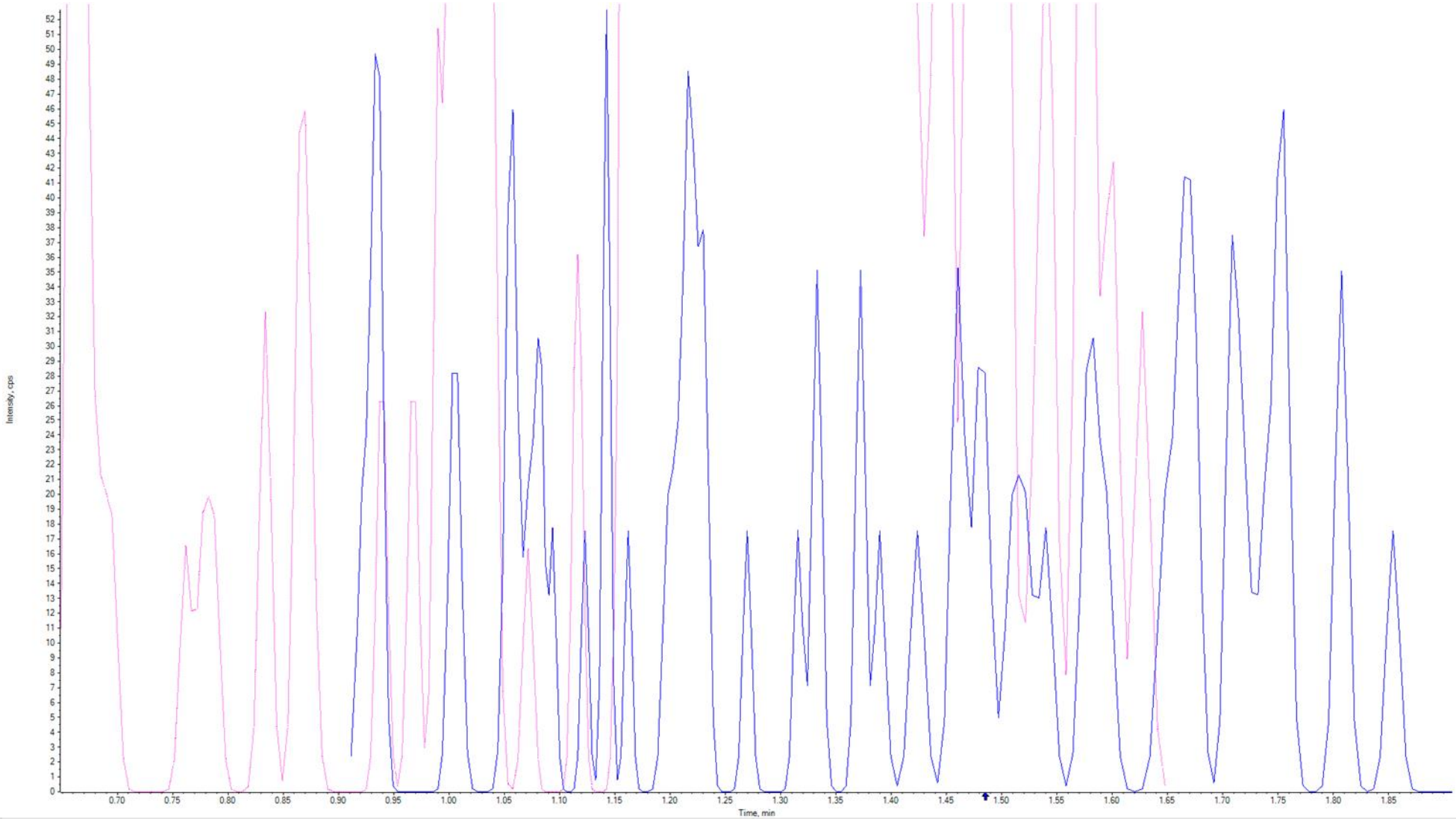
PFMBA
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



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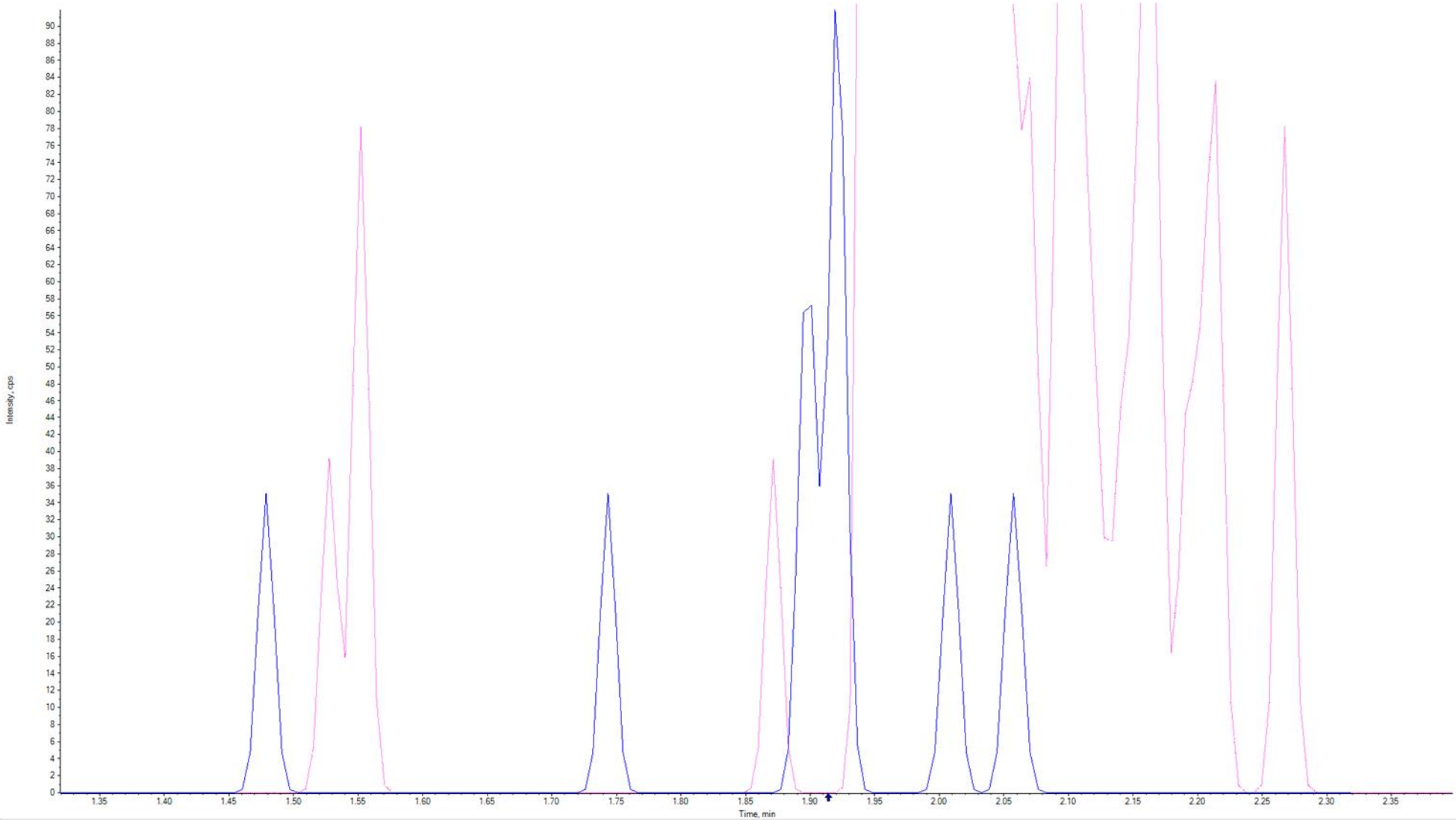
NFDHA
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



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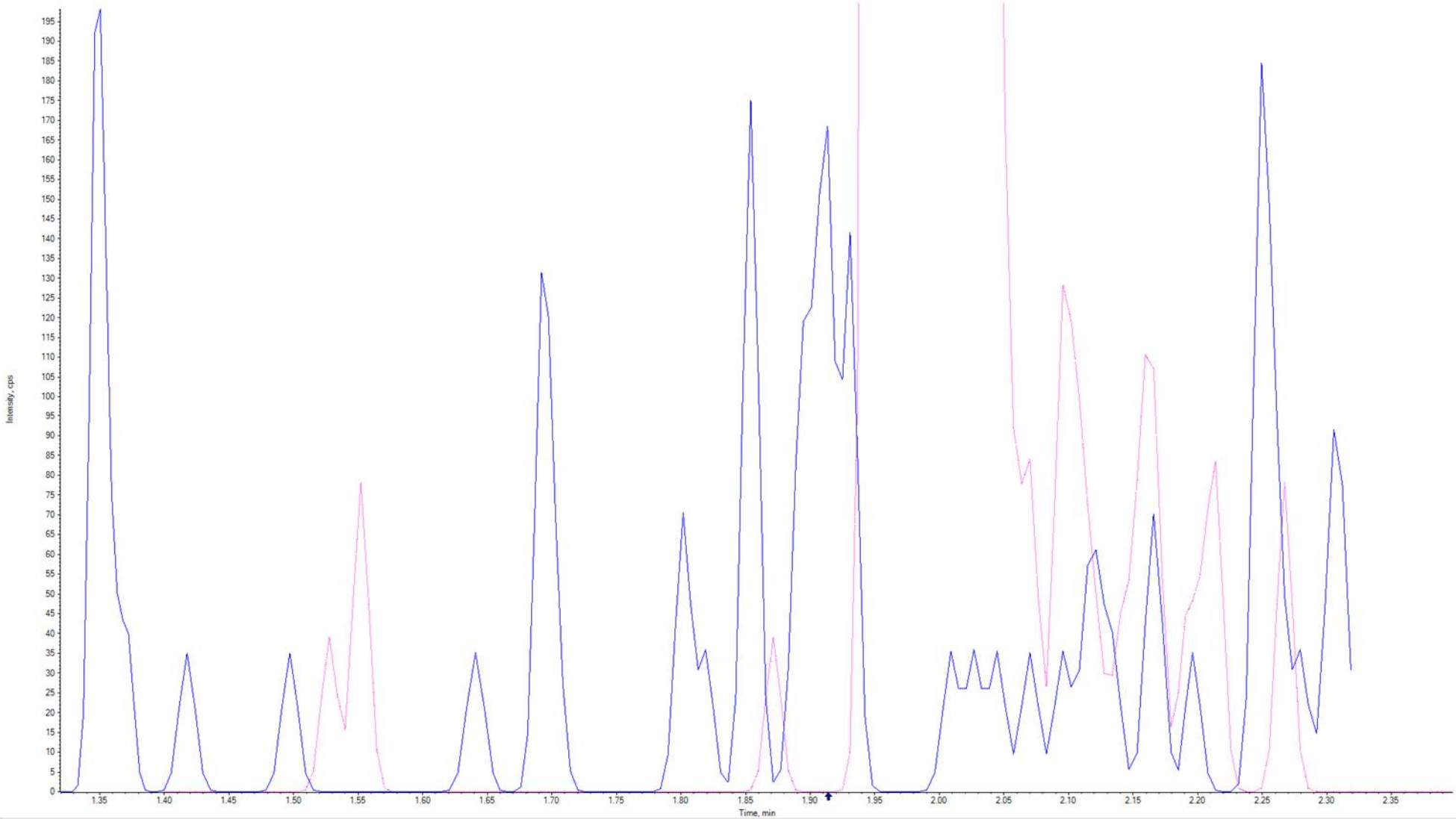
NFDHA_2
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



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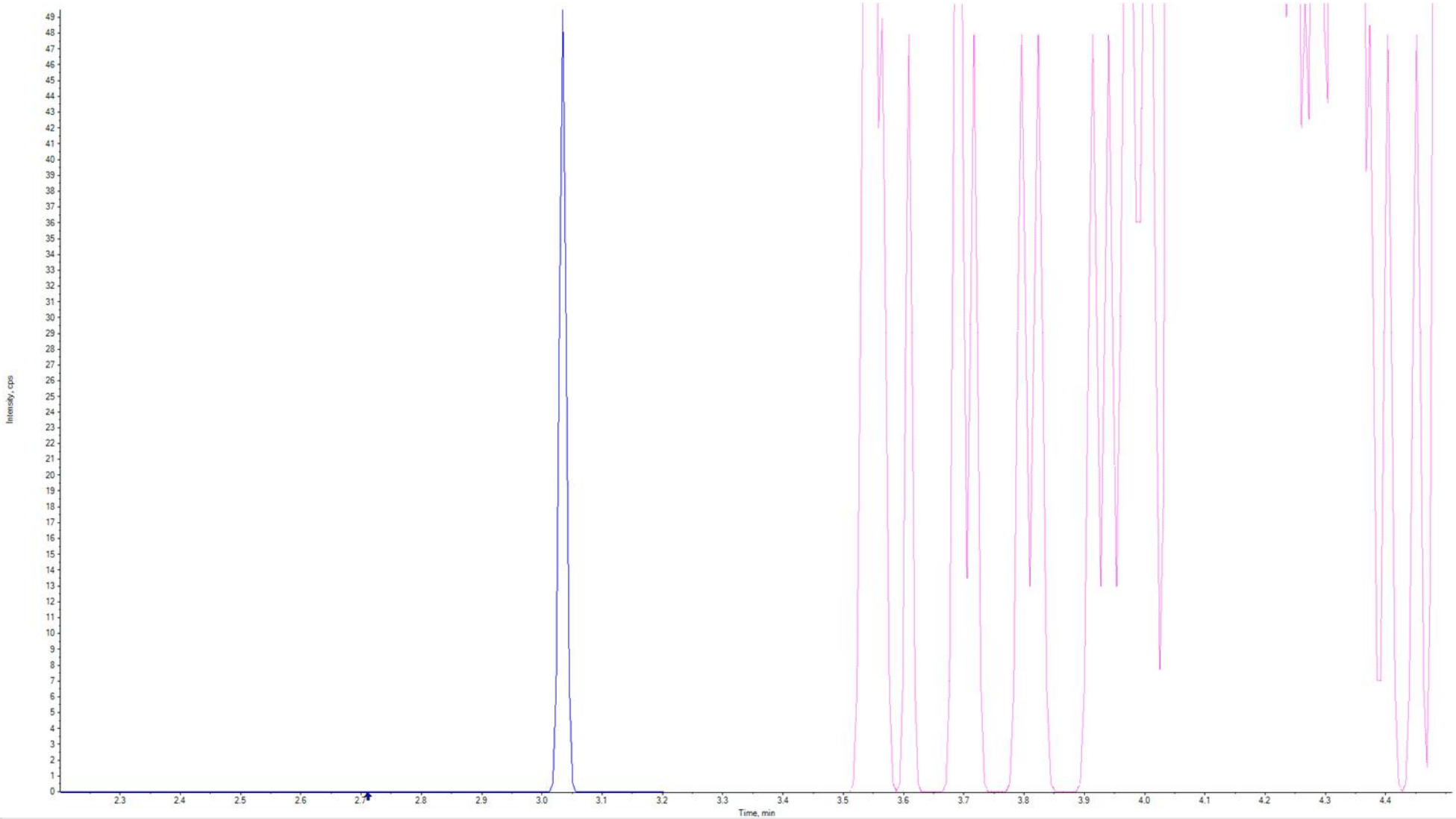
TDCA
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



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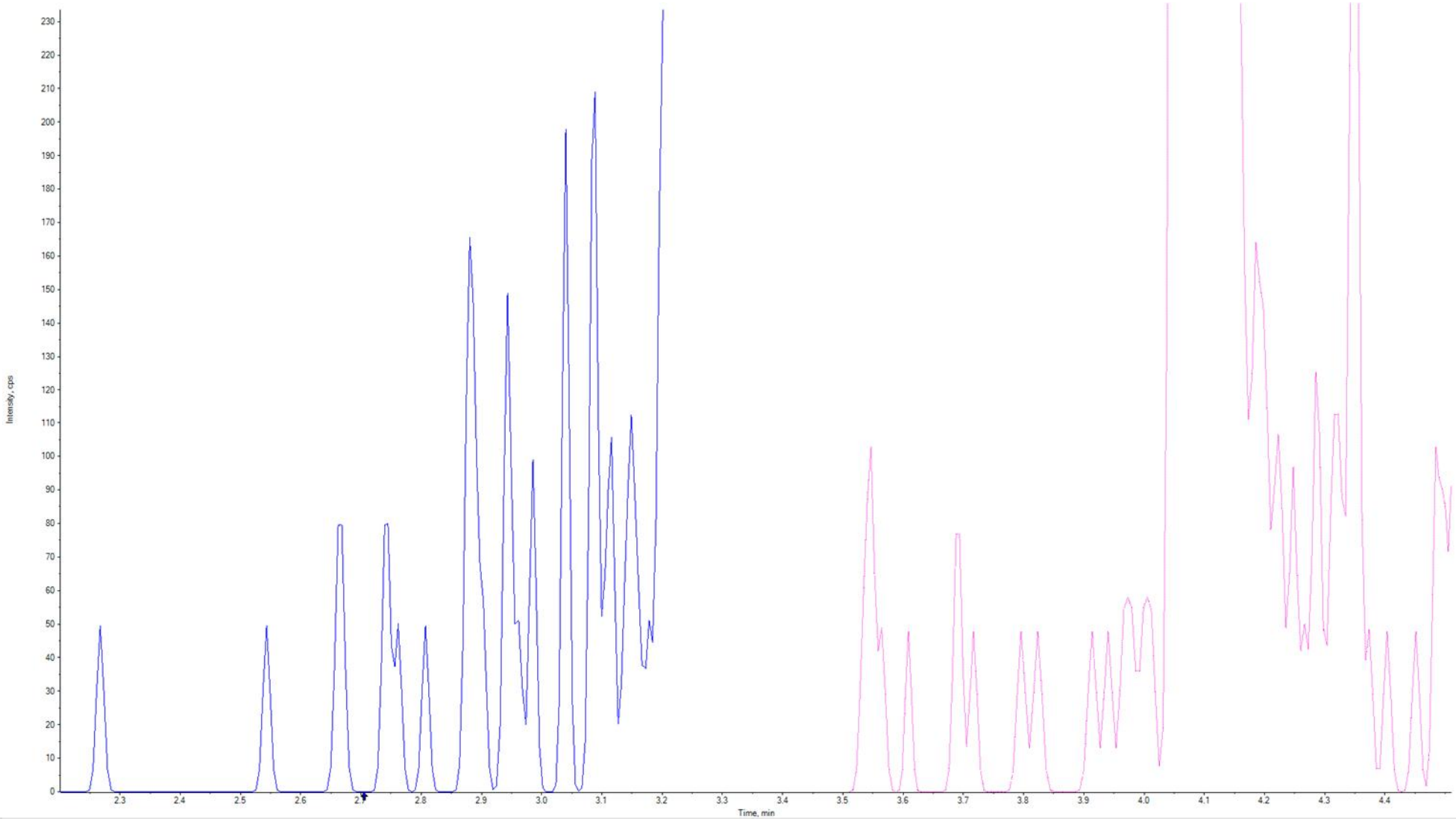
TDCA_2
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



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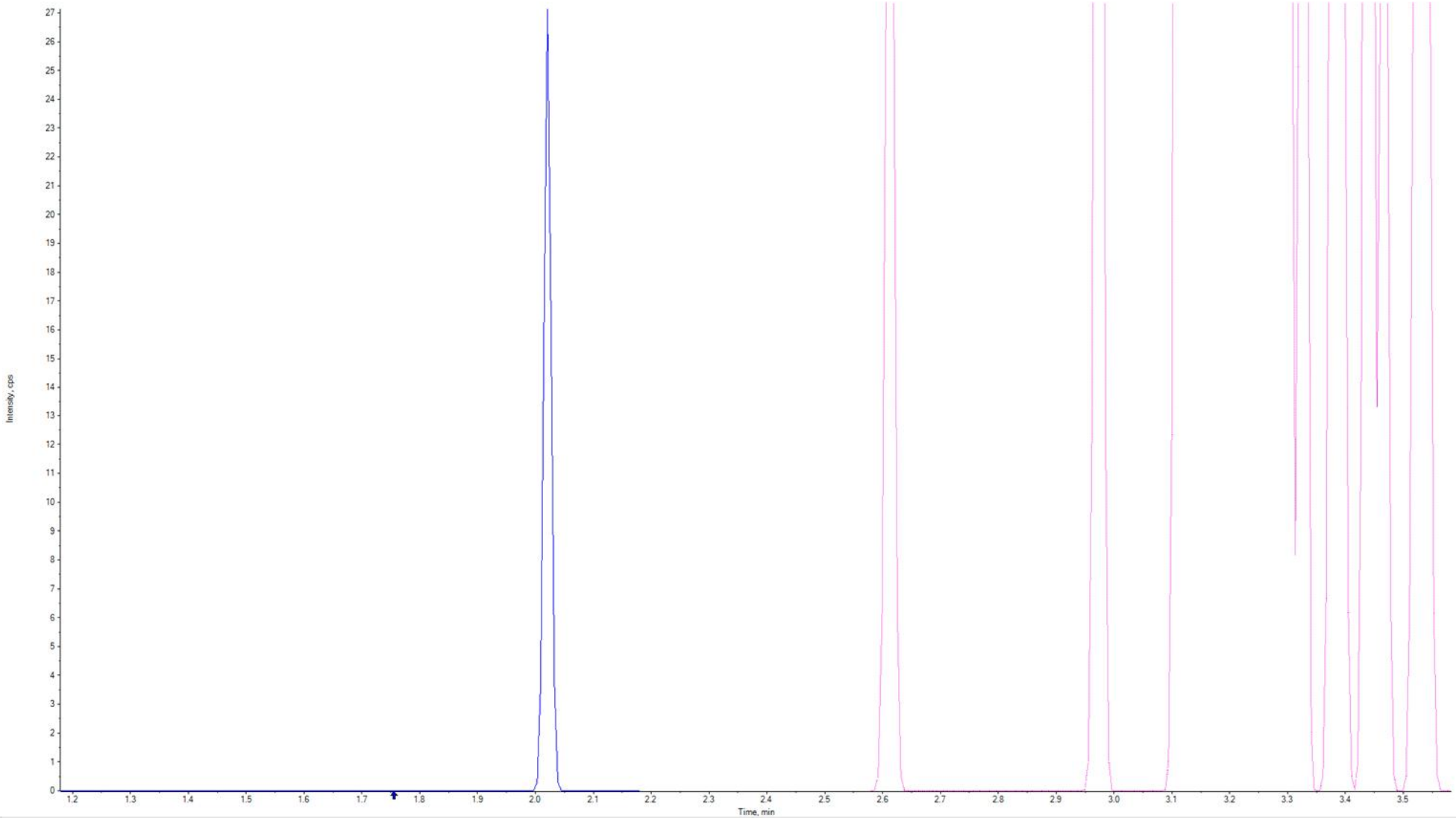
13C2D4-4:2FTS
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



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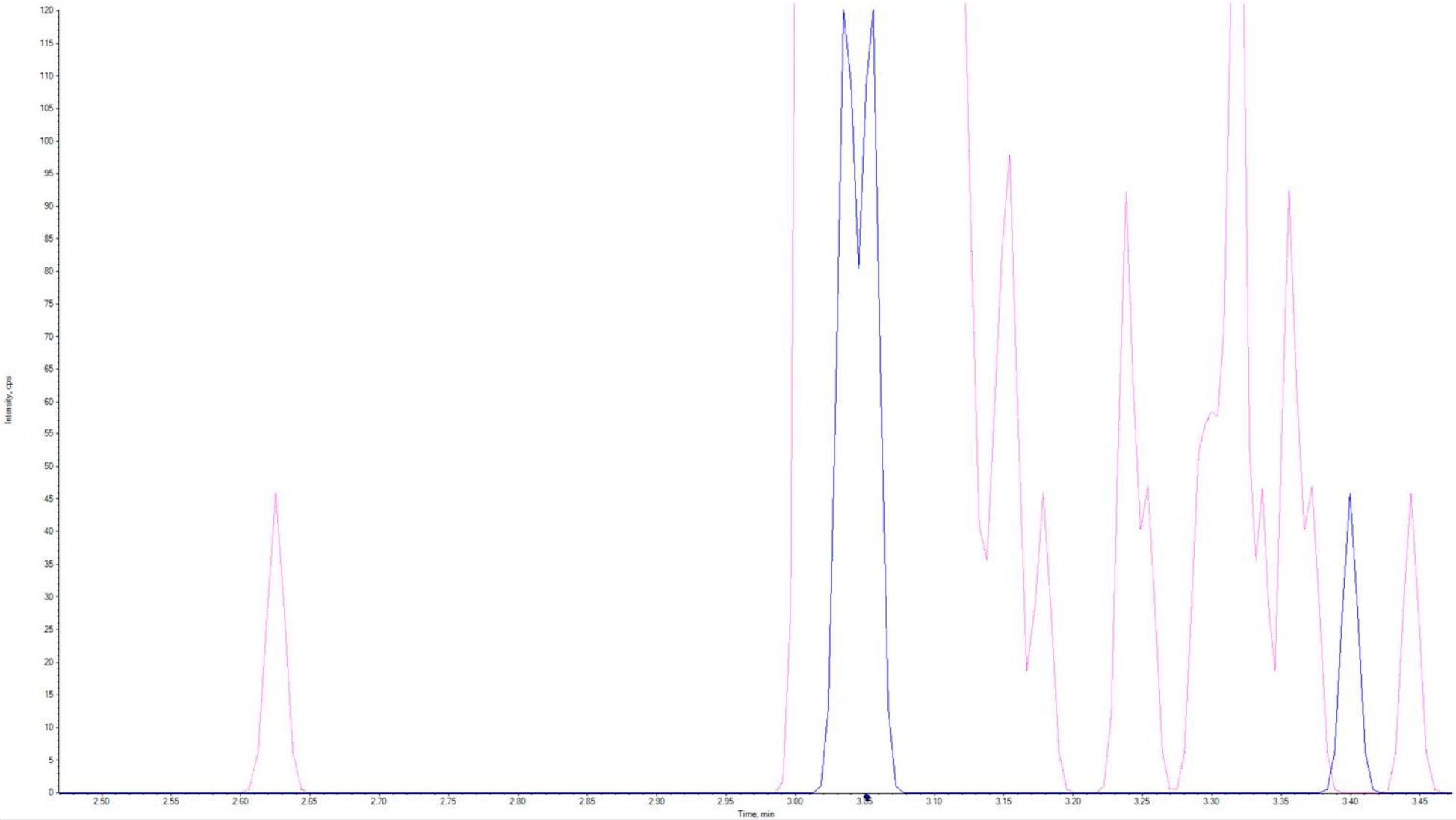
13C2-PFOA
Sample: L2470744-20 S/N:N/A Points Across peak:N/A



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13C4-PFBA
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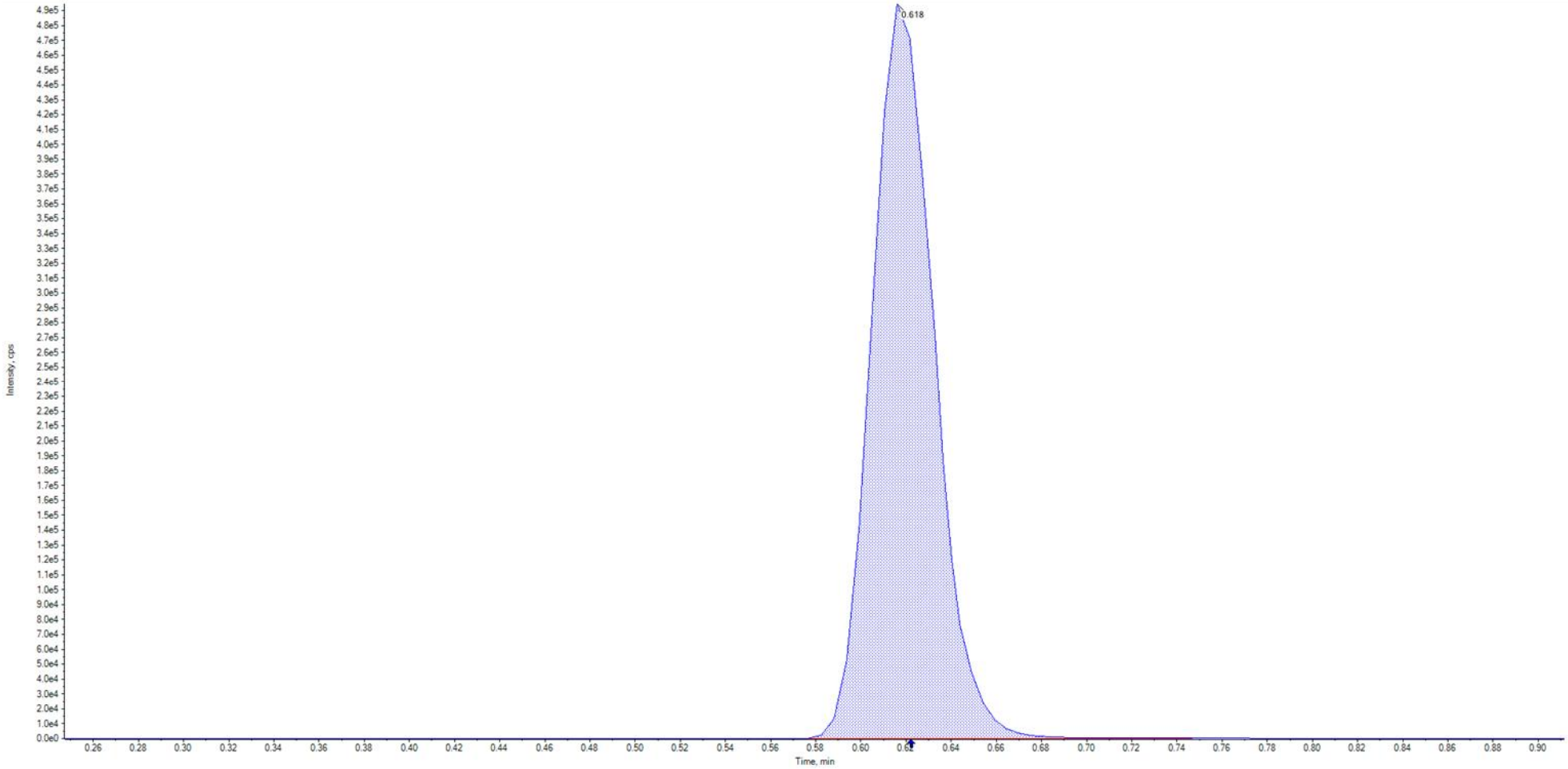

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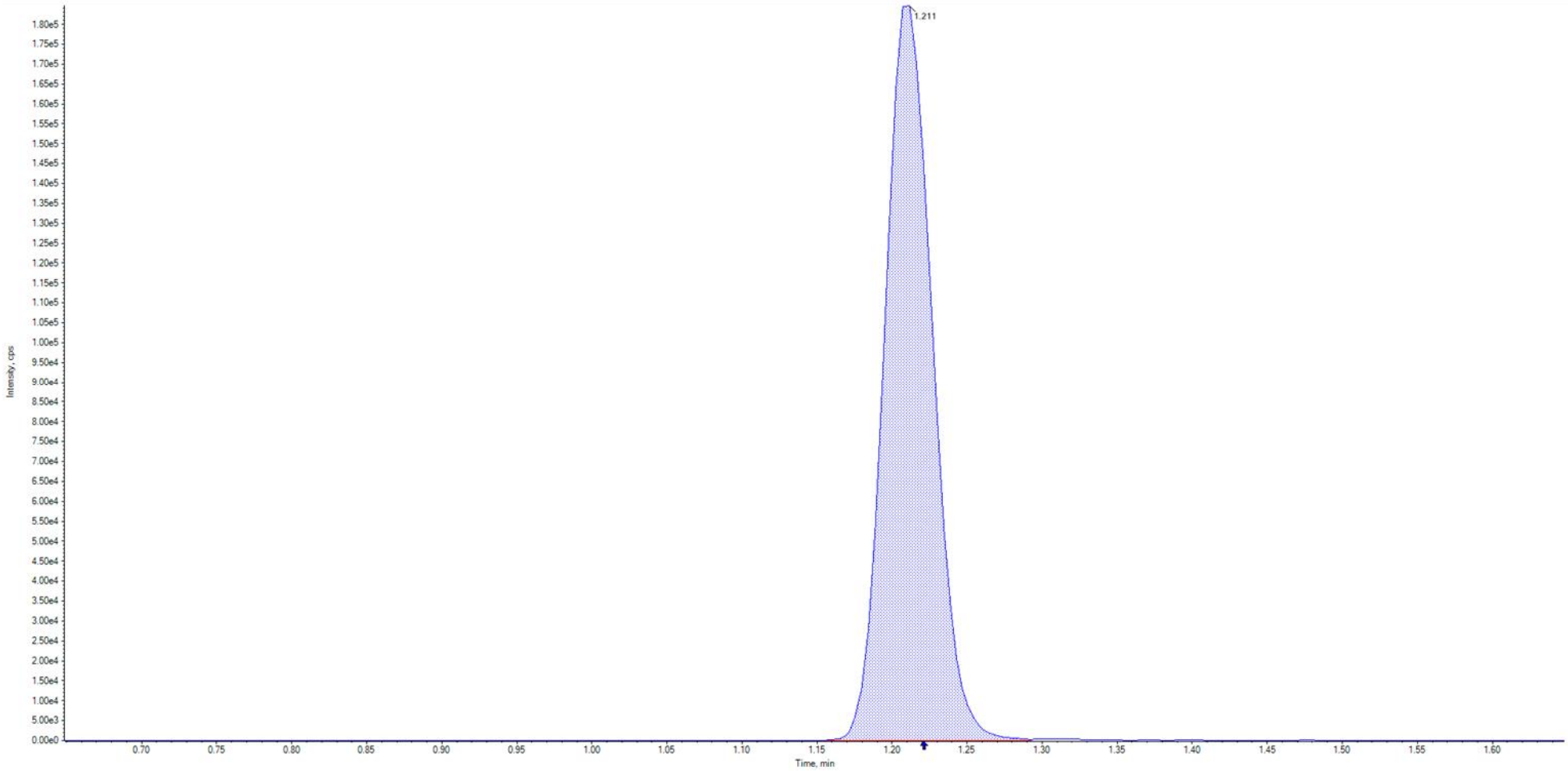
13C5-PFPeA
Sample: L2470744-20



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13C5-PFHxA
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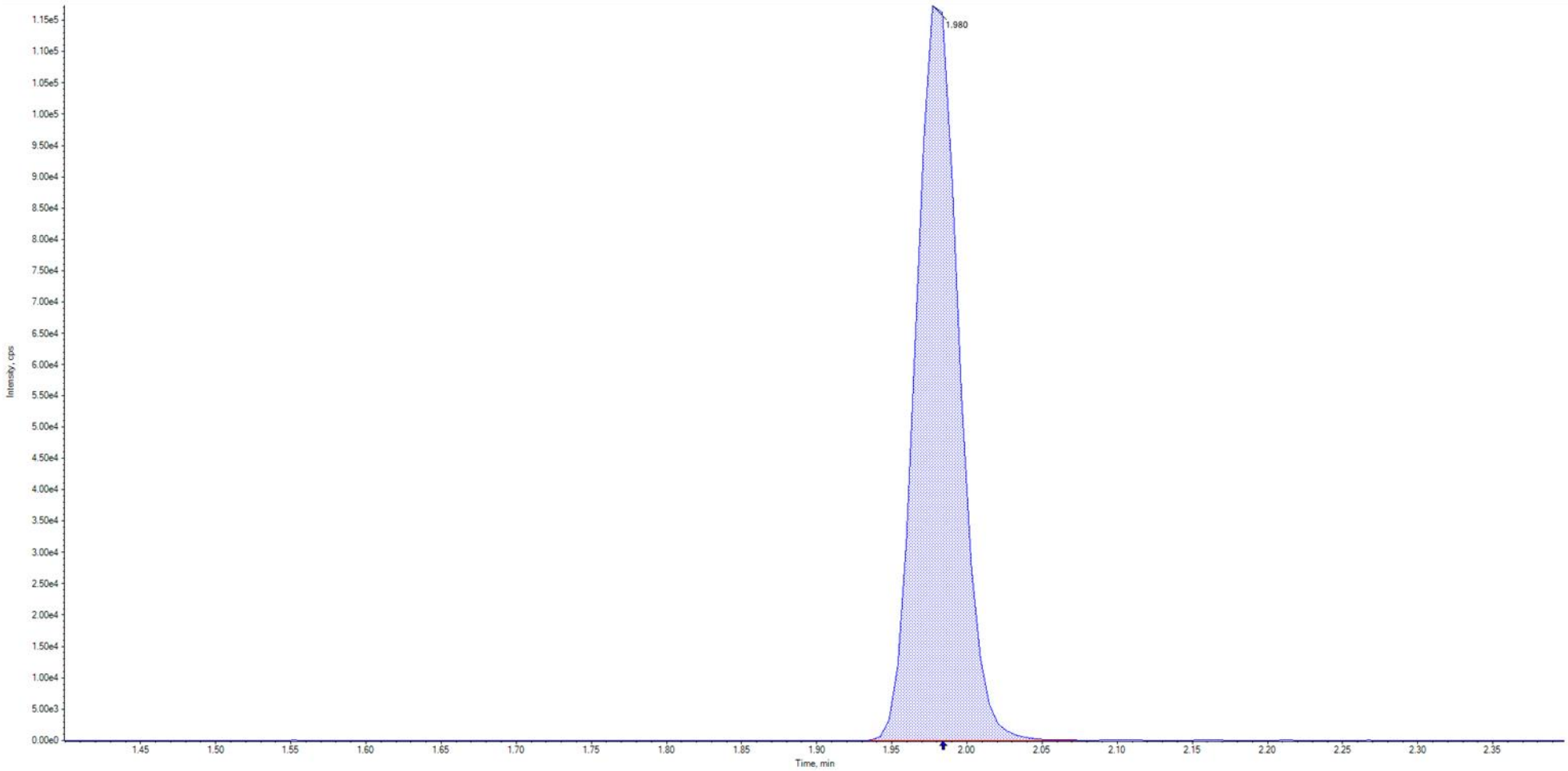

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13C4-PFHpA
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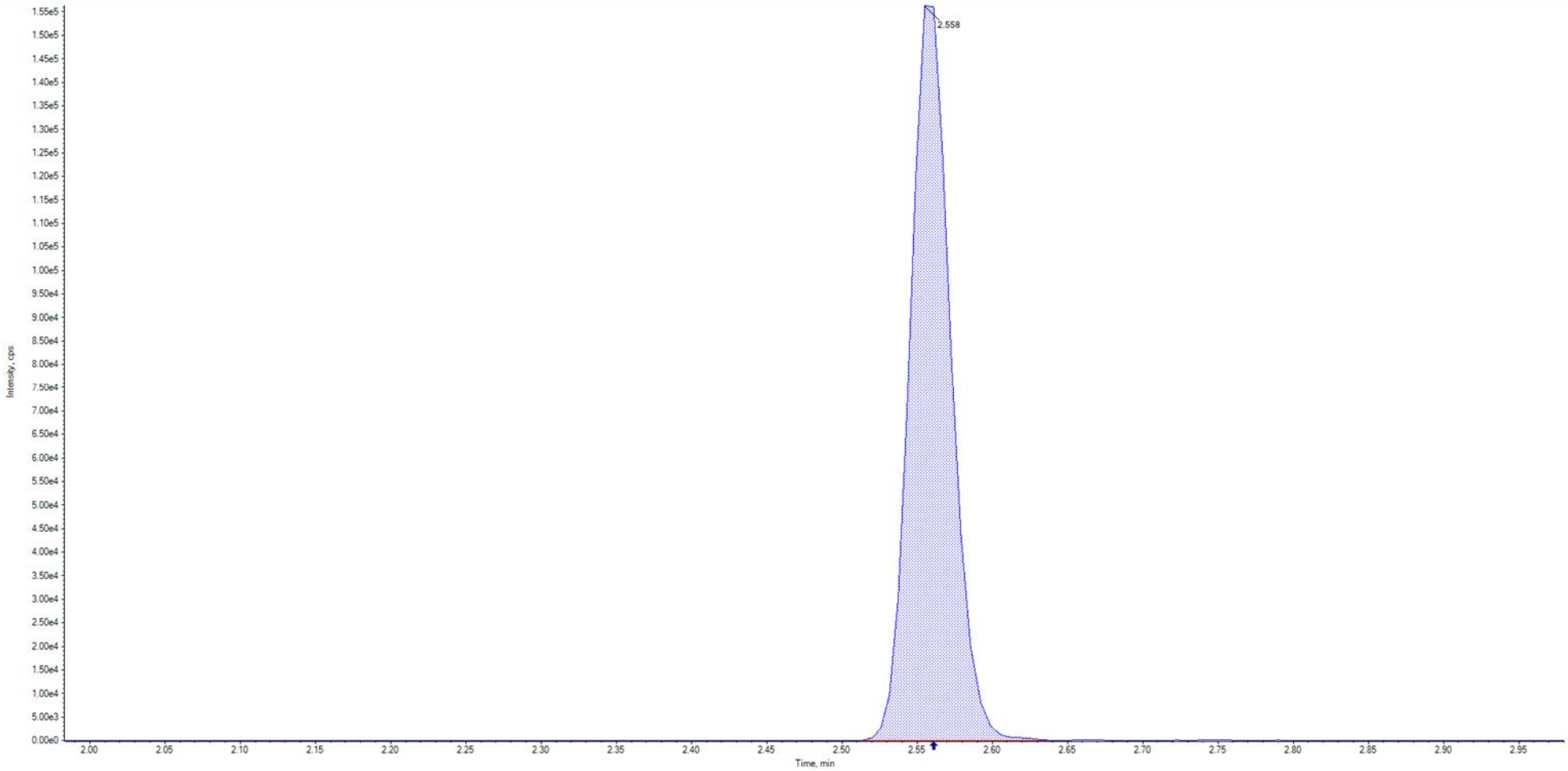

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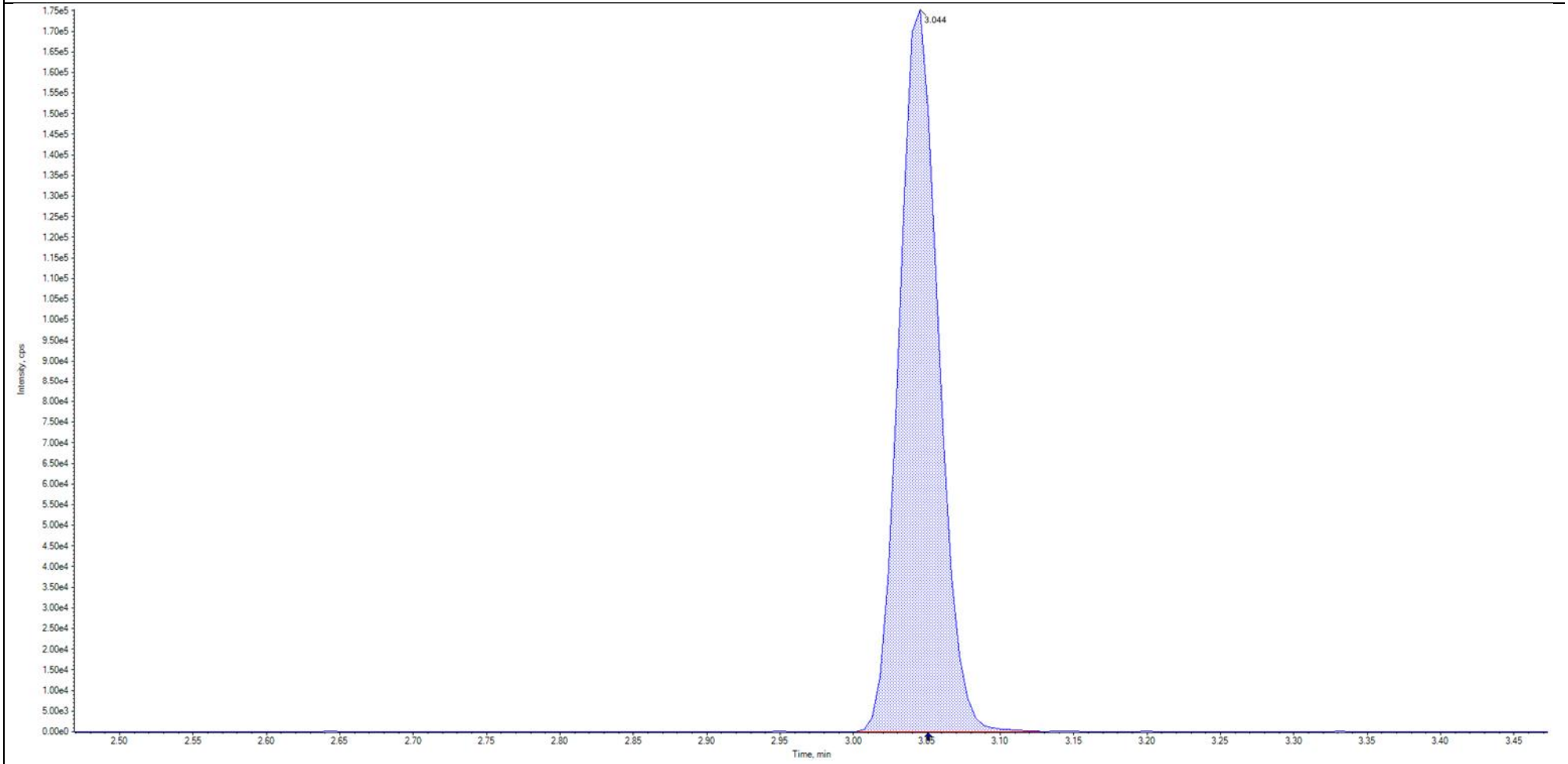
13C8-PFOA
Sample: L2470744-20



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13C9-PFNA
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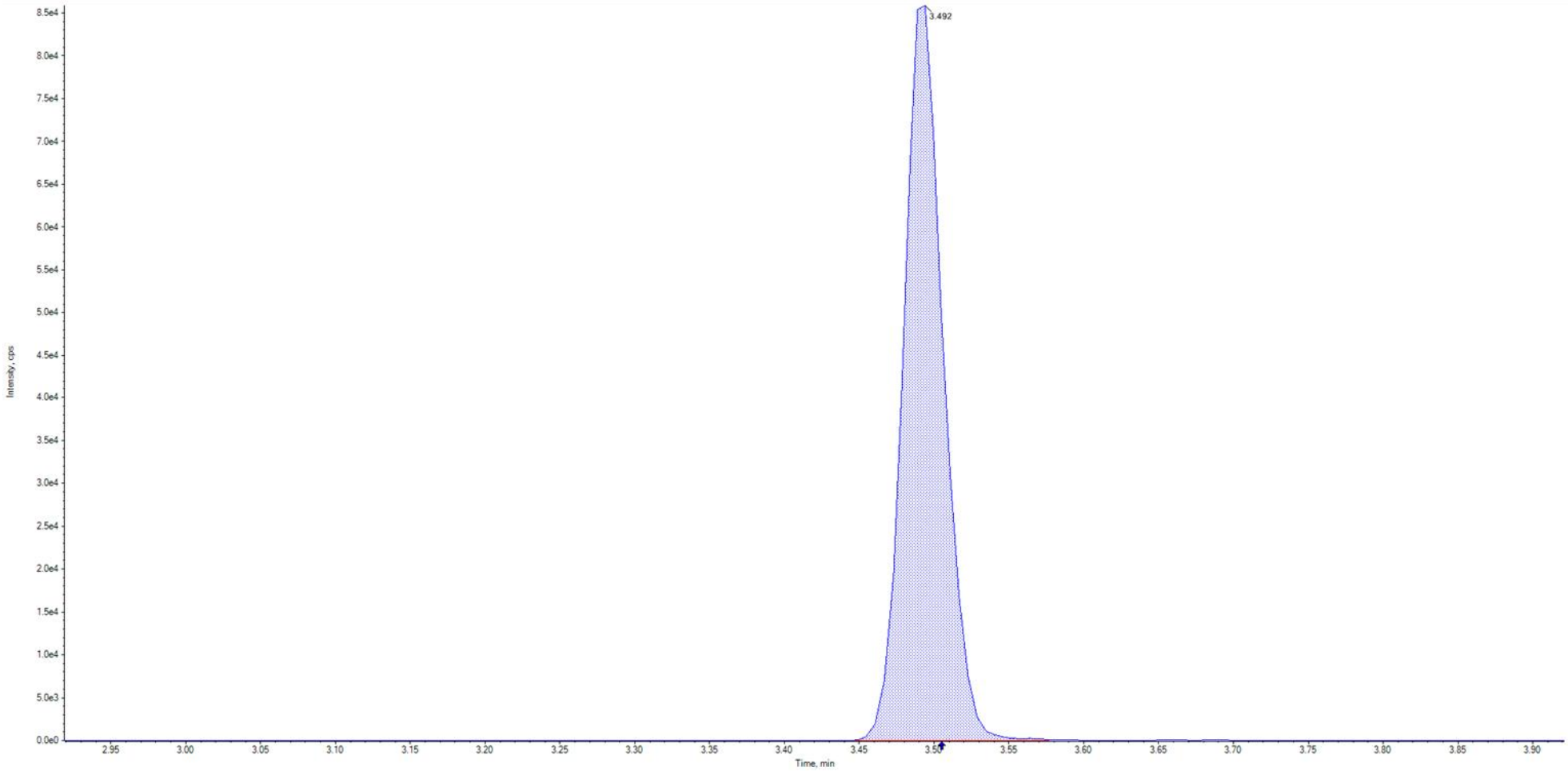

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13C6-PFDA
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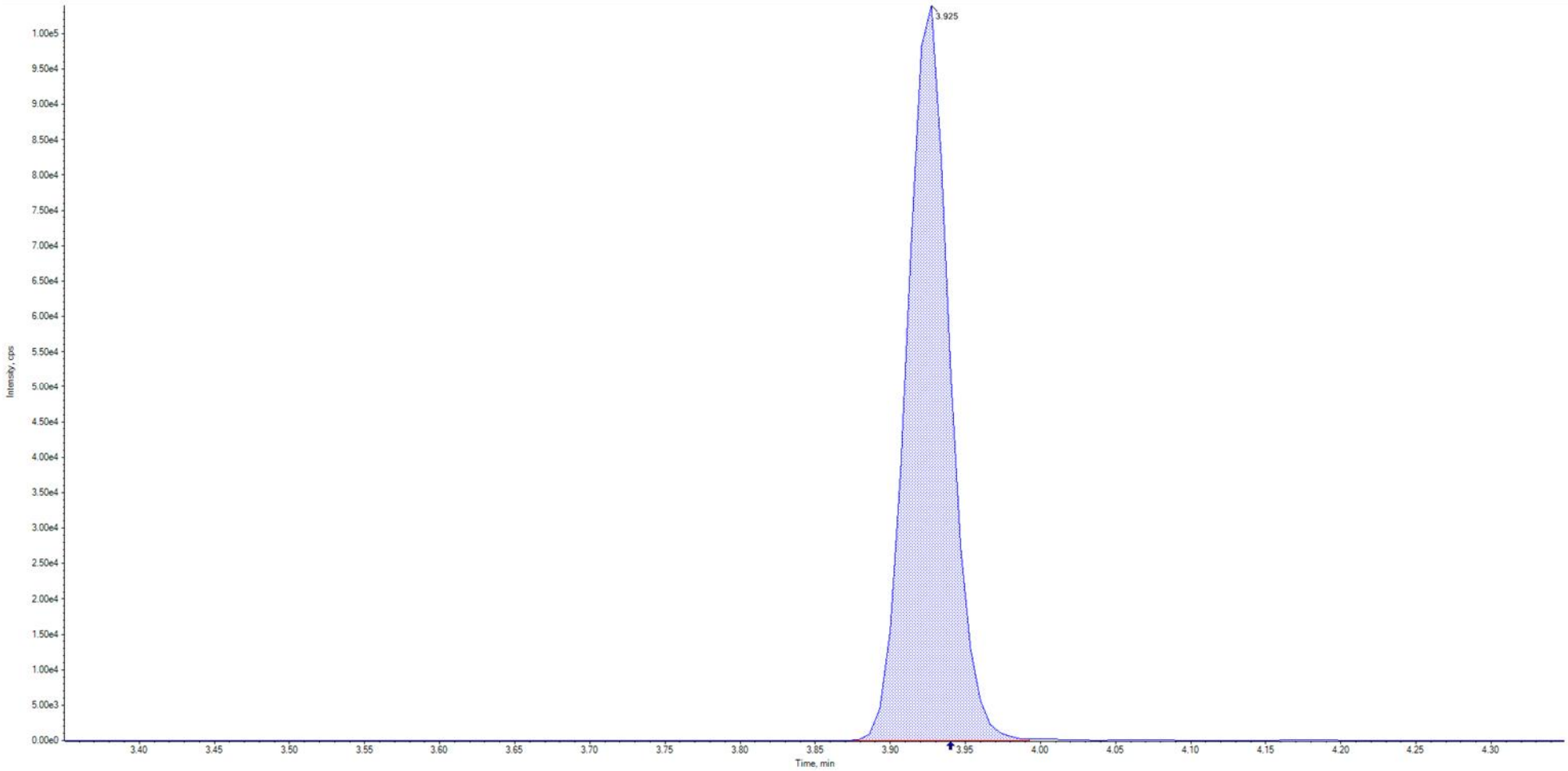

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13C7-PFUnA
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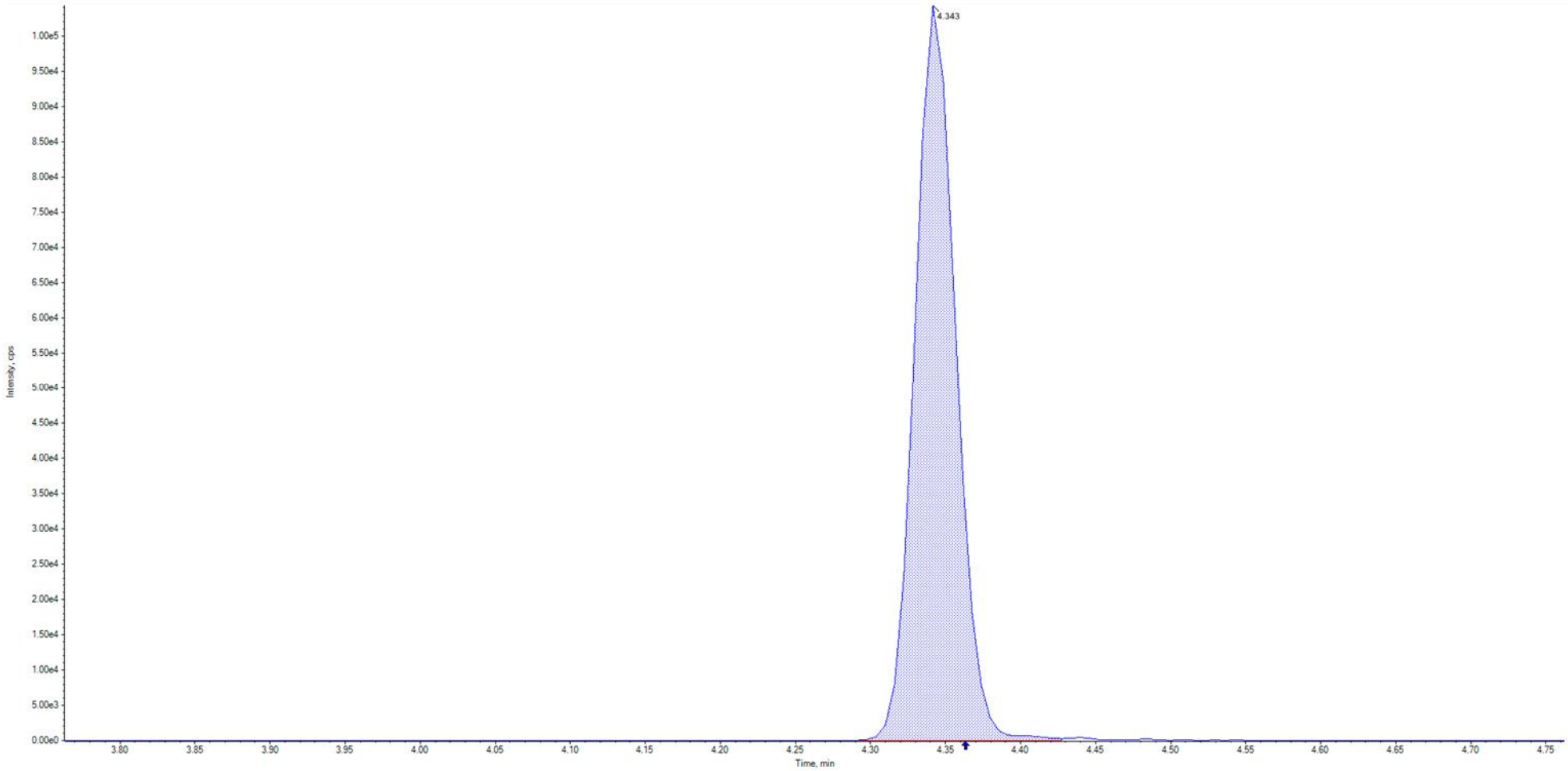

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13C2-PFDoA
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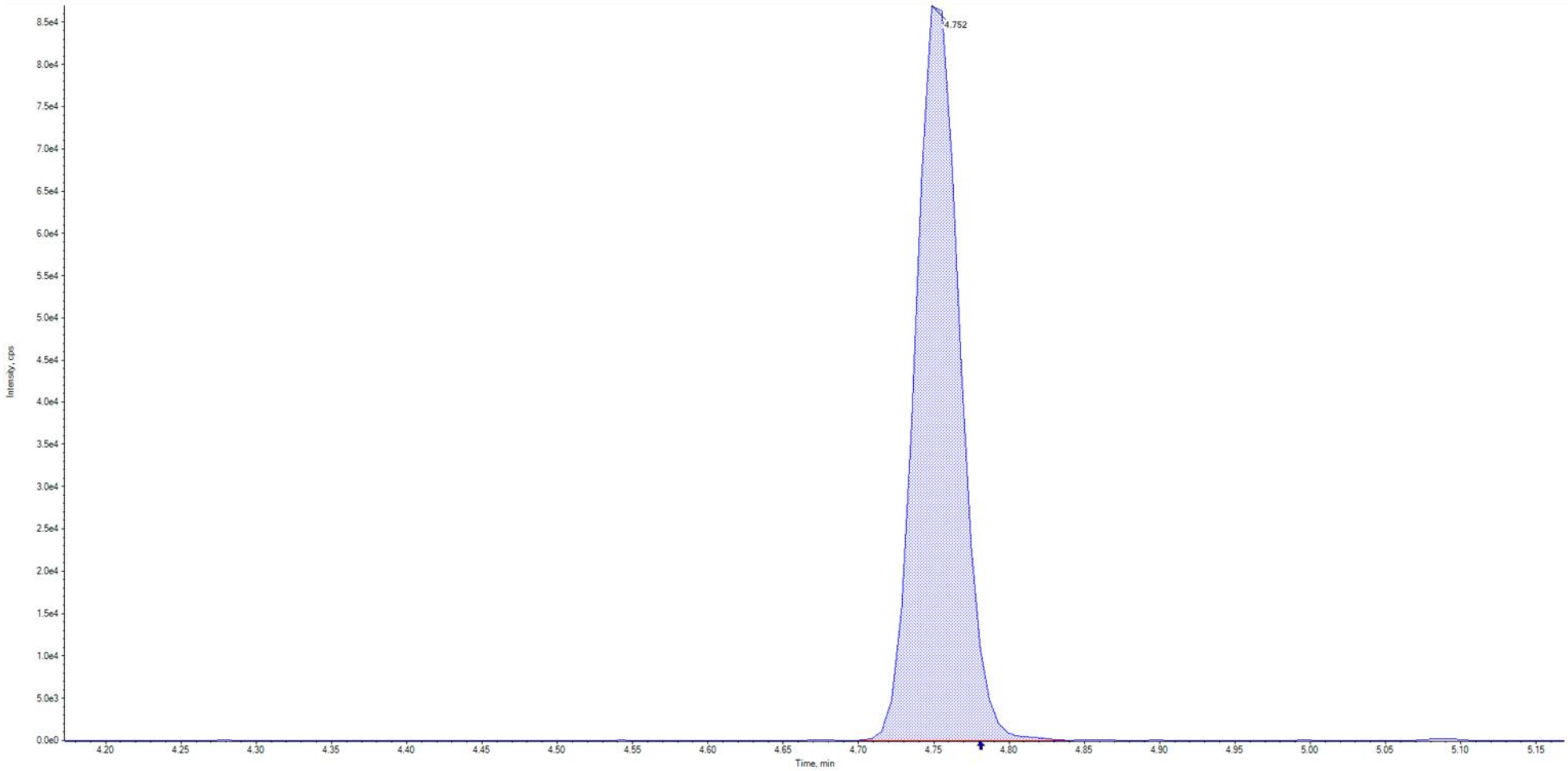

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13C2-PFTeDA
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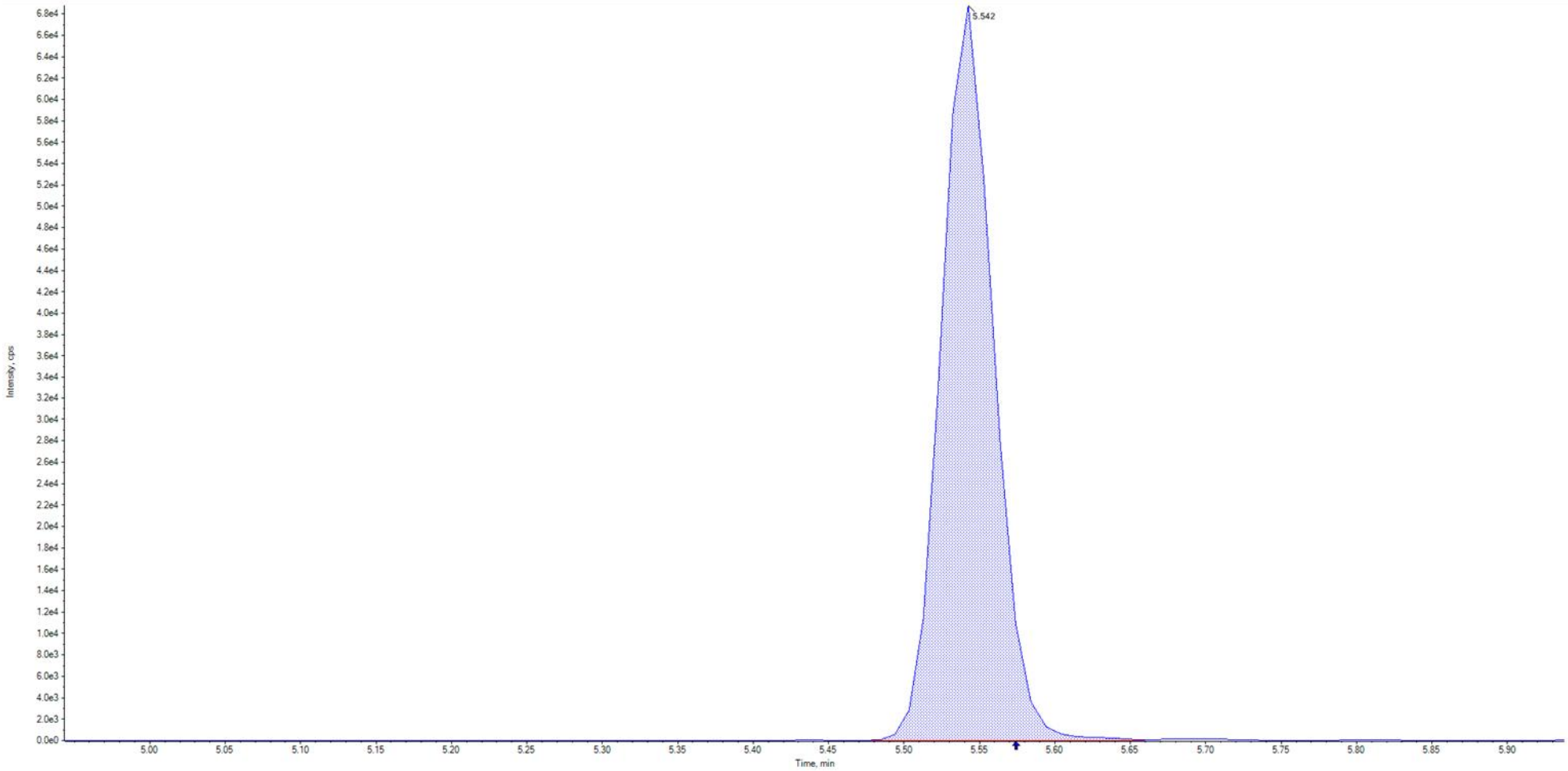

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13C3-PFBS
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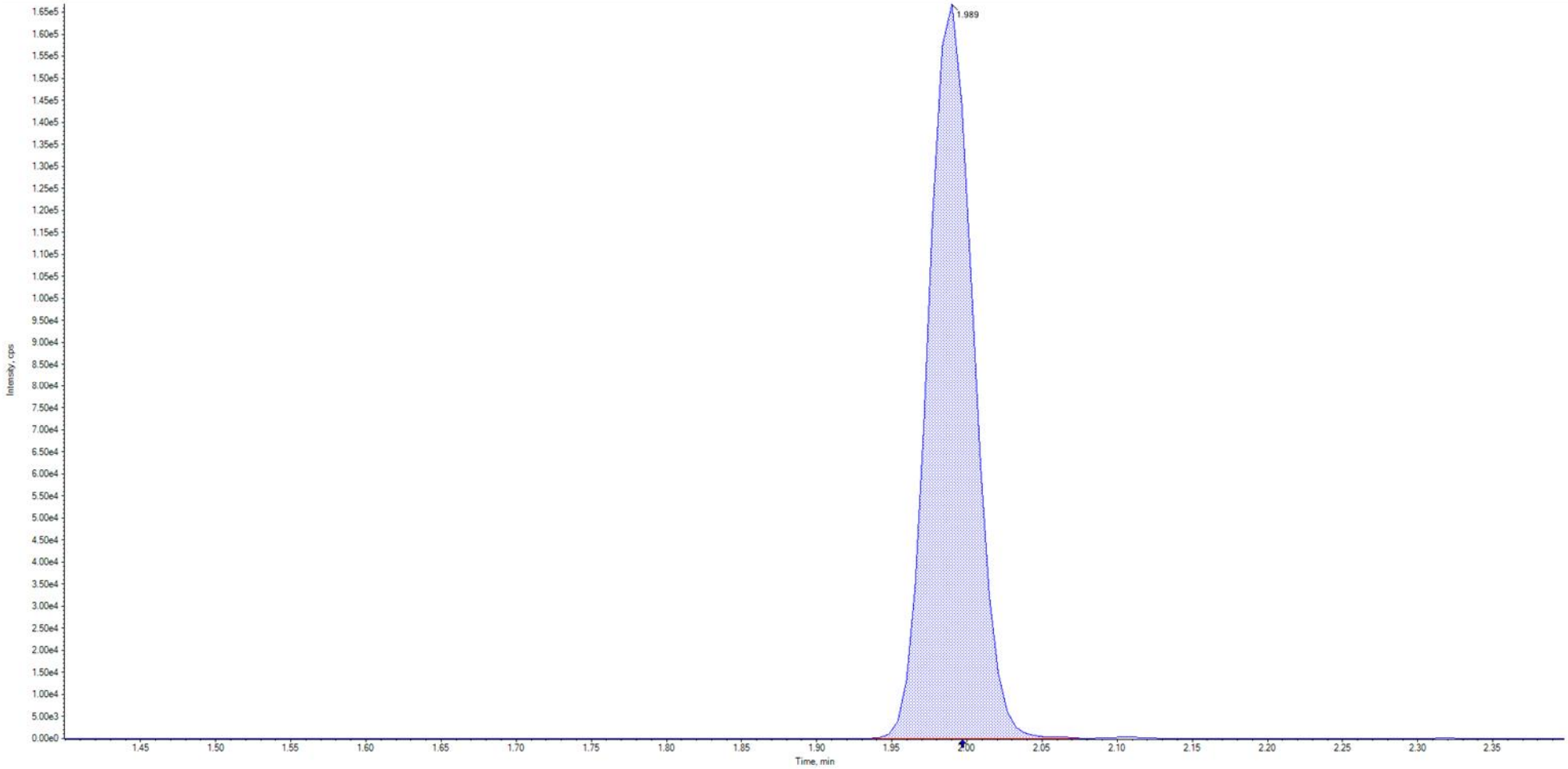

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13C3-PFHxS
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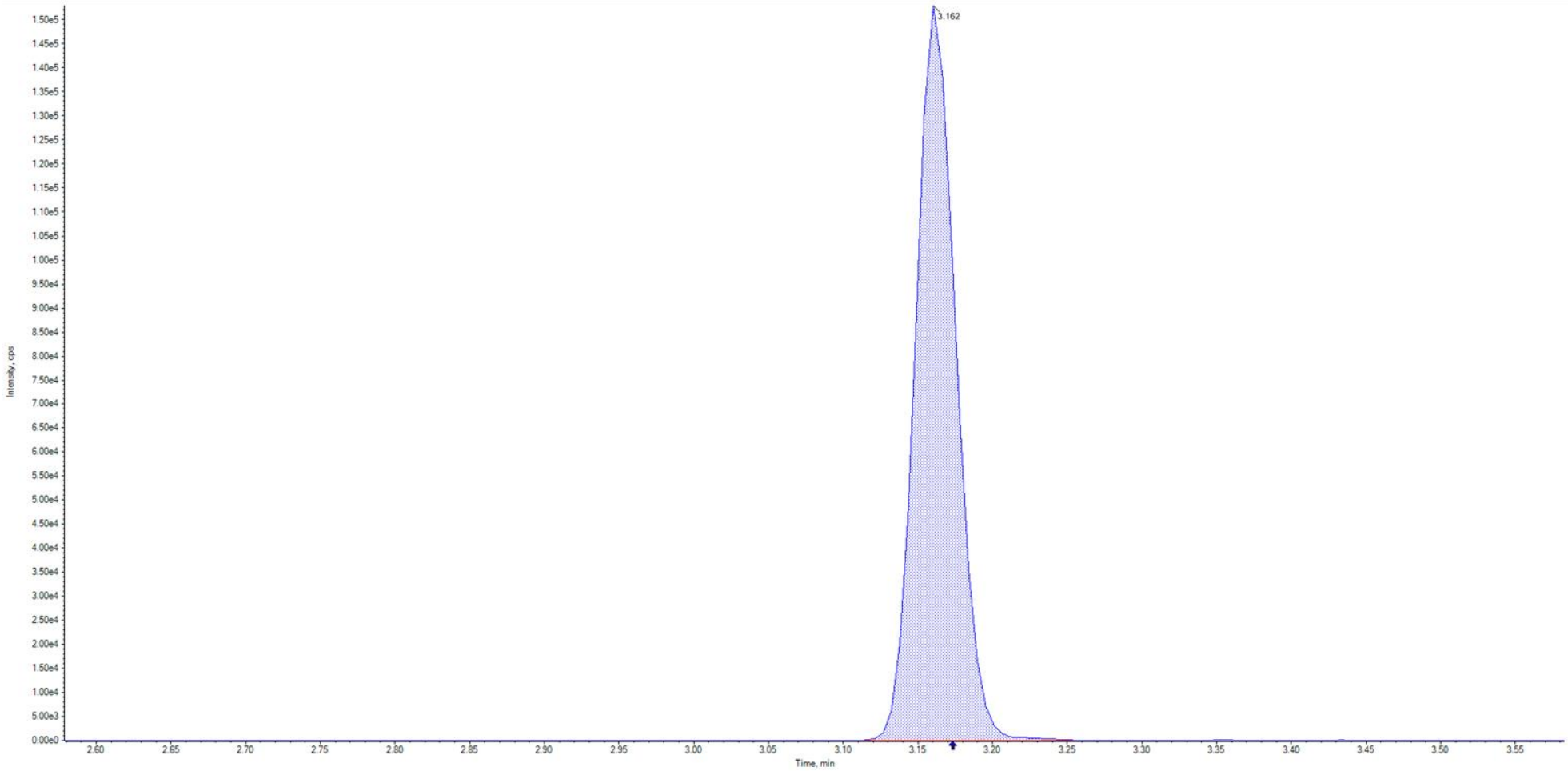

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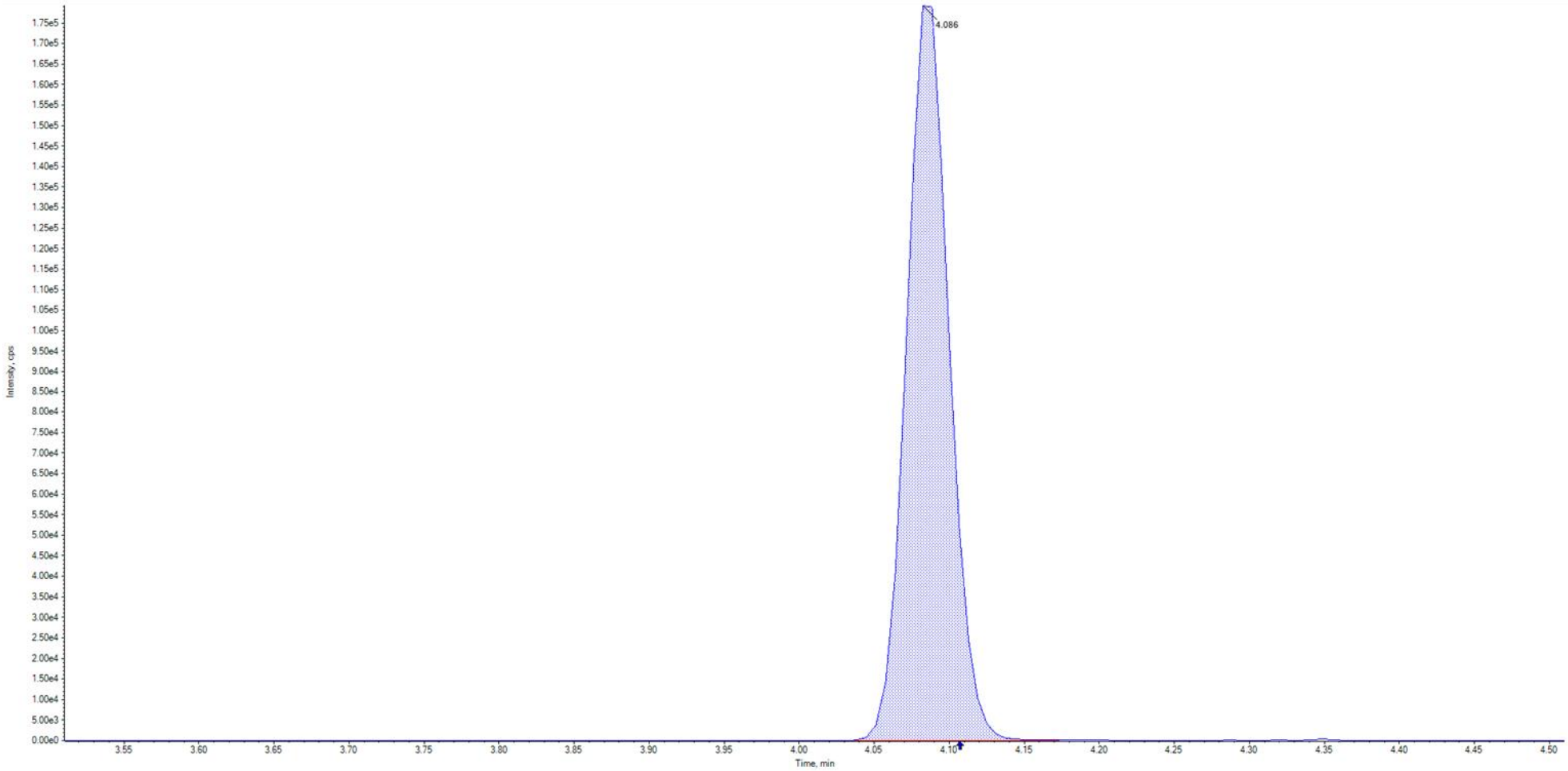
13C8-PFOS
Sample: L2470744-20



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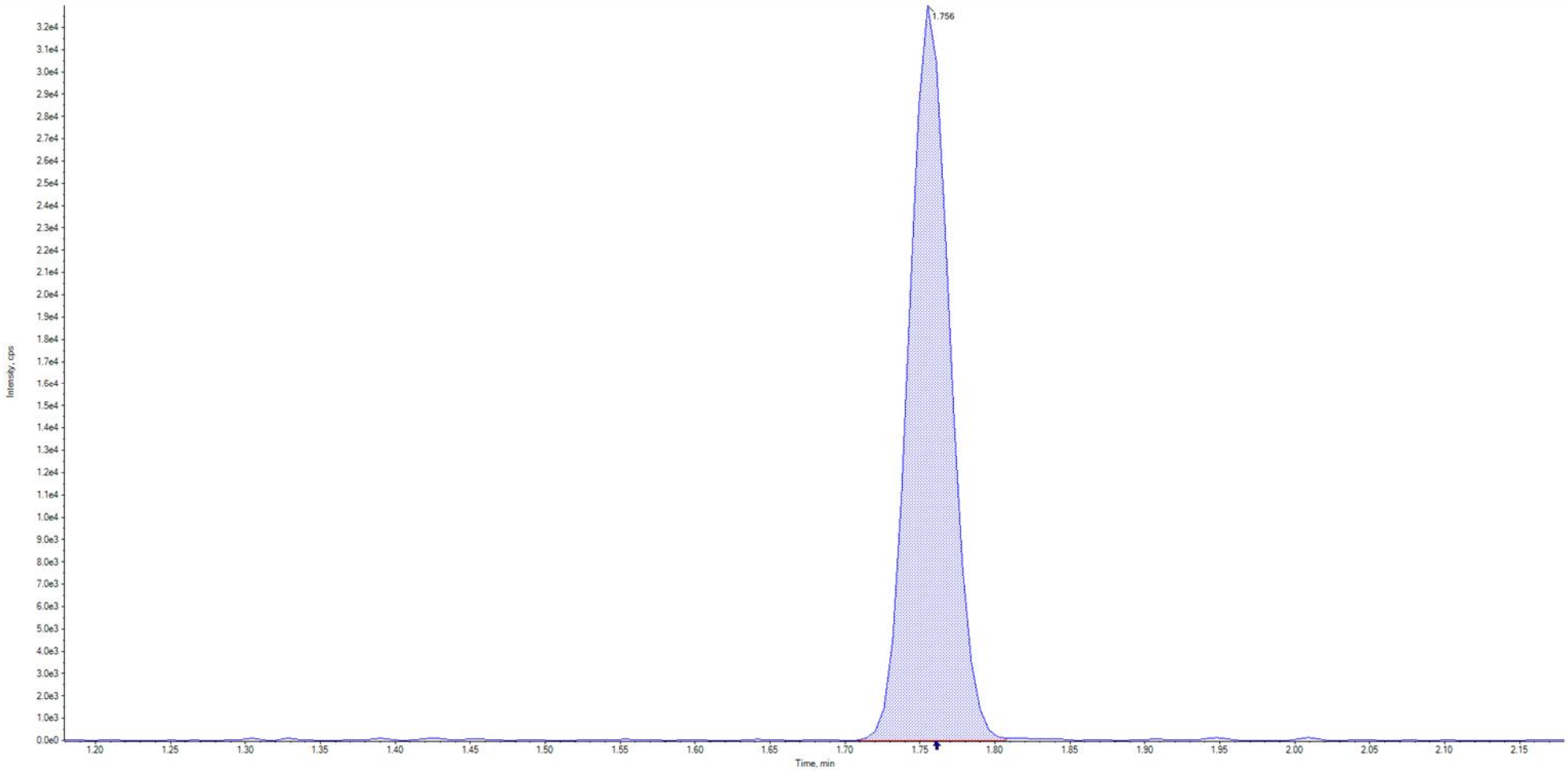
13C2-4:2FTS
Sample: L2470744-20



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13C2-6:2FTS
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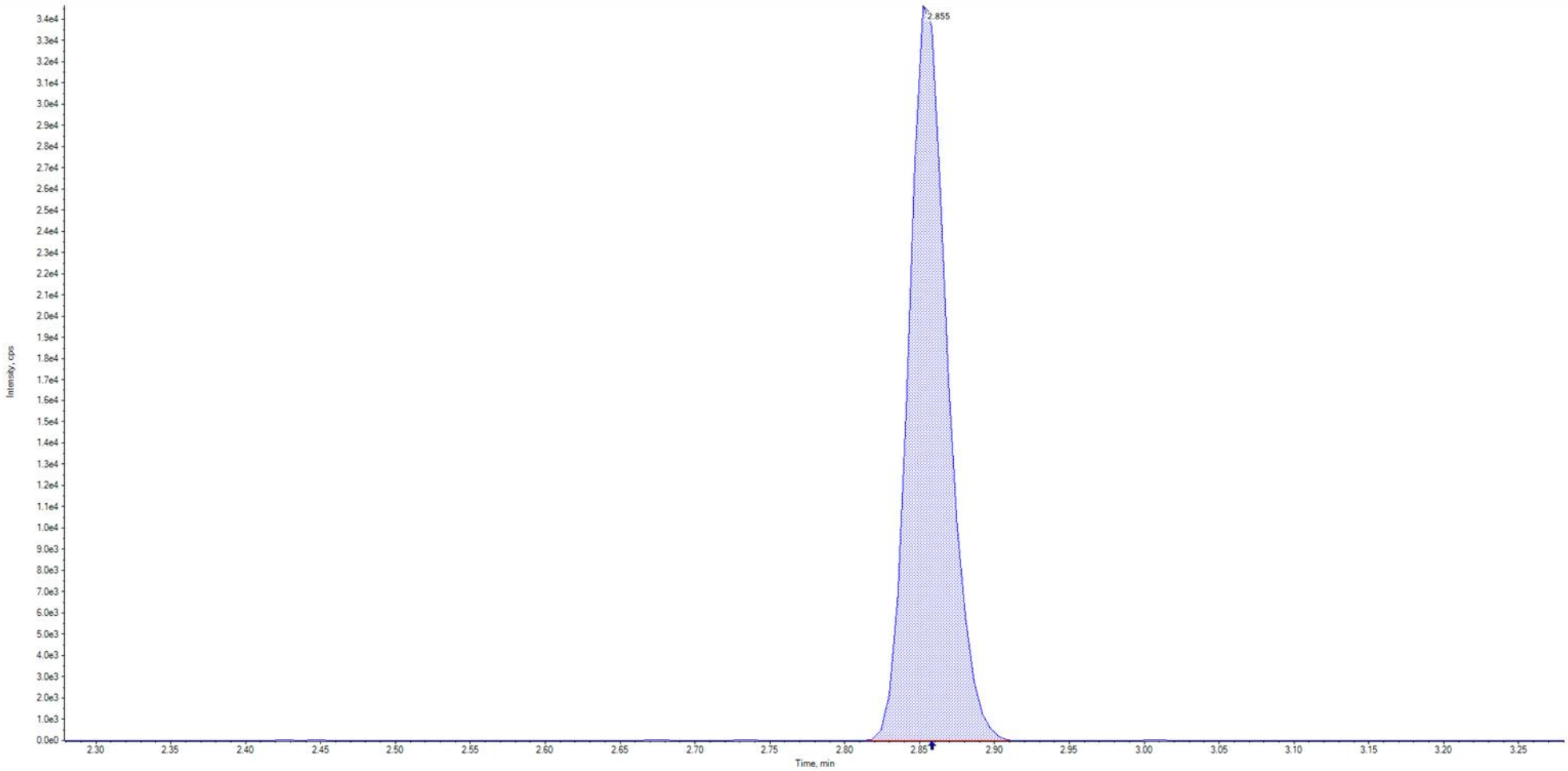

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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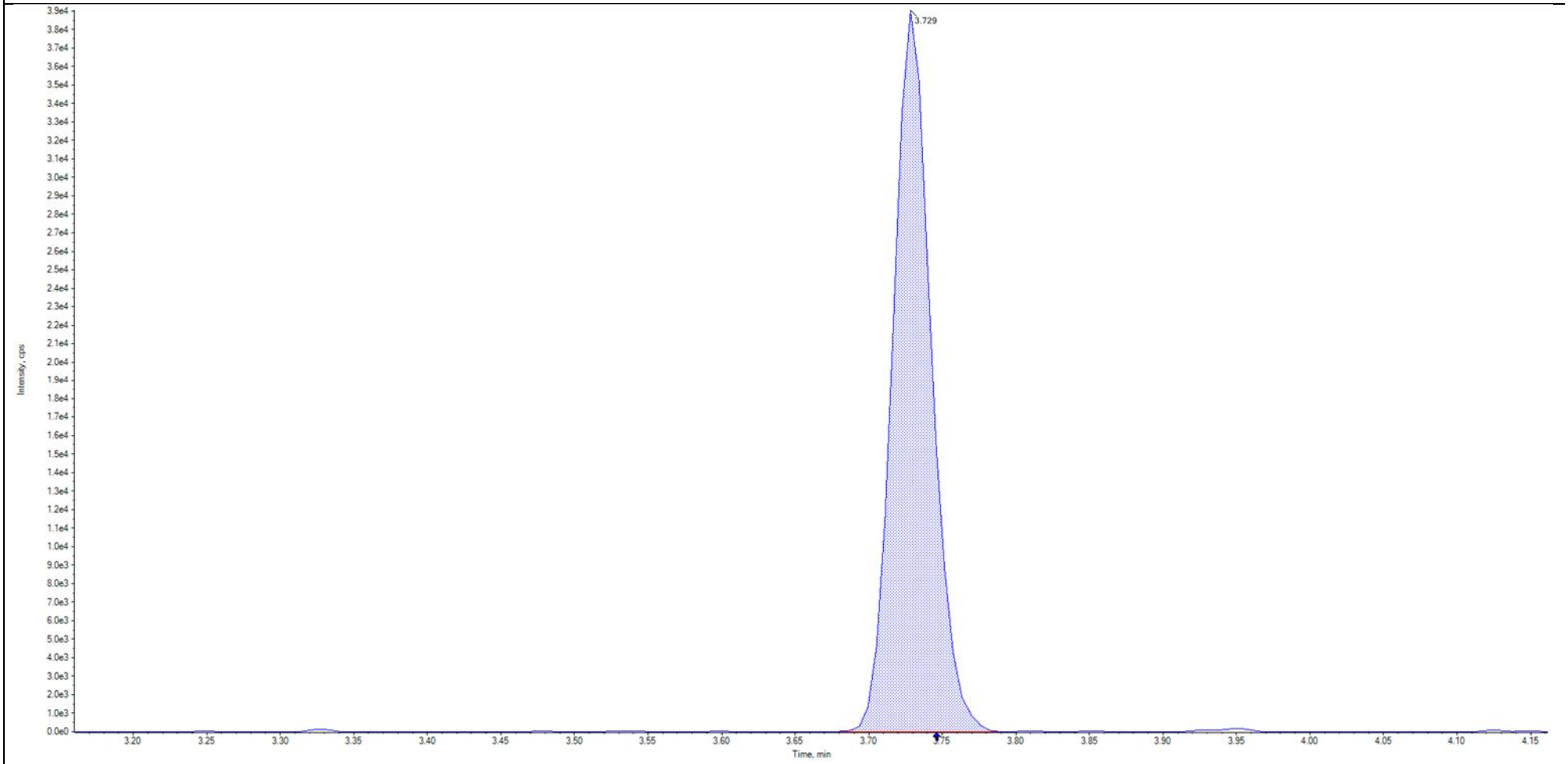
13C2-8:2FTS
Sample: L2470744-20



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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13C8-PFOSA
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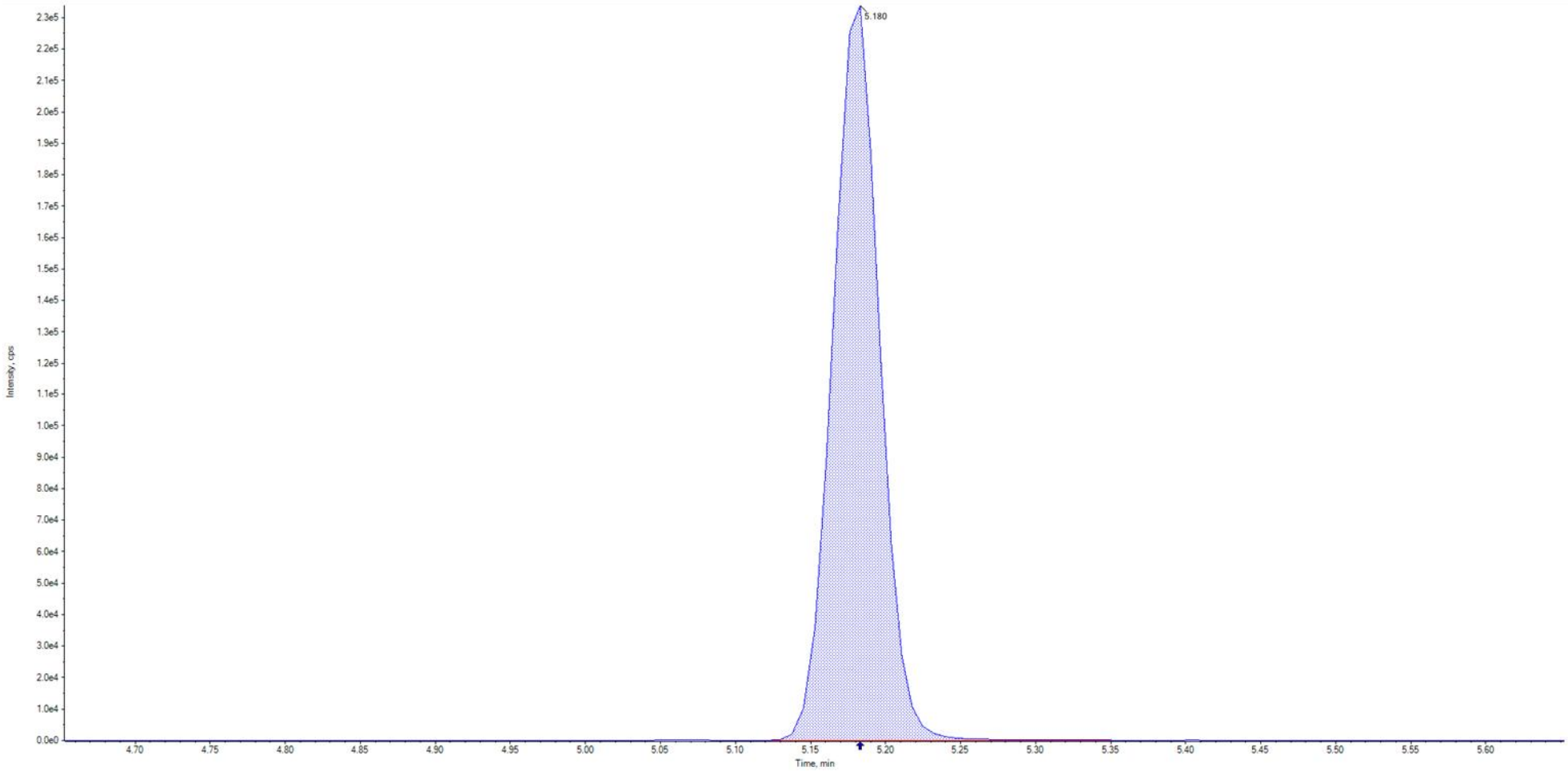

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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d3-NMeFOSA
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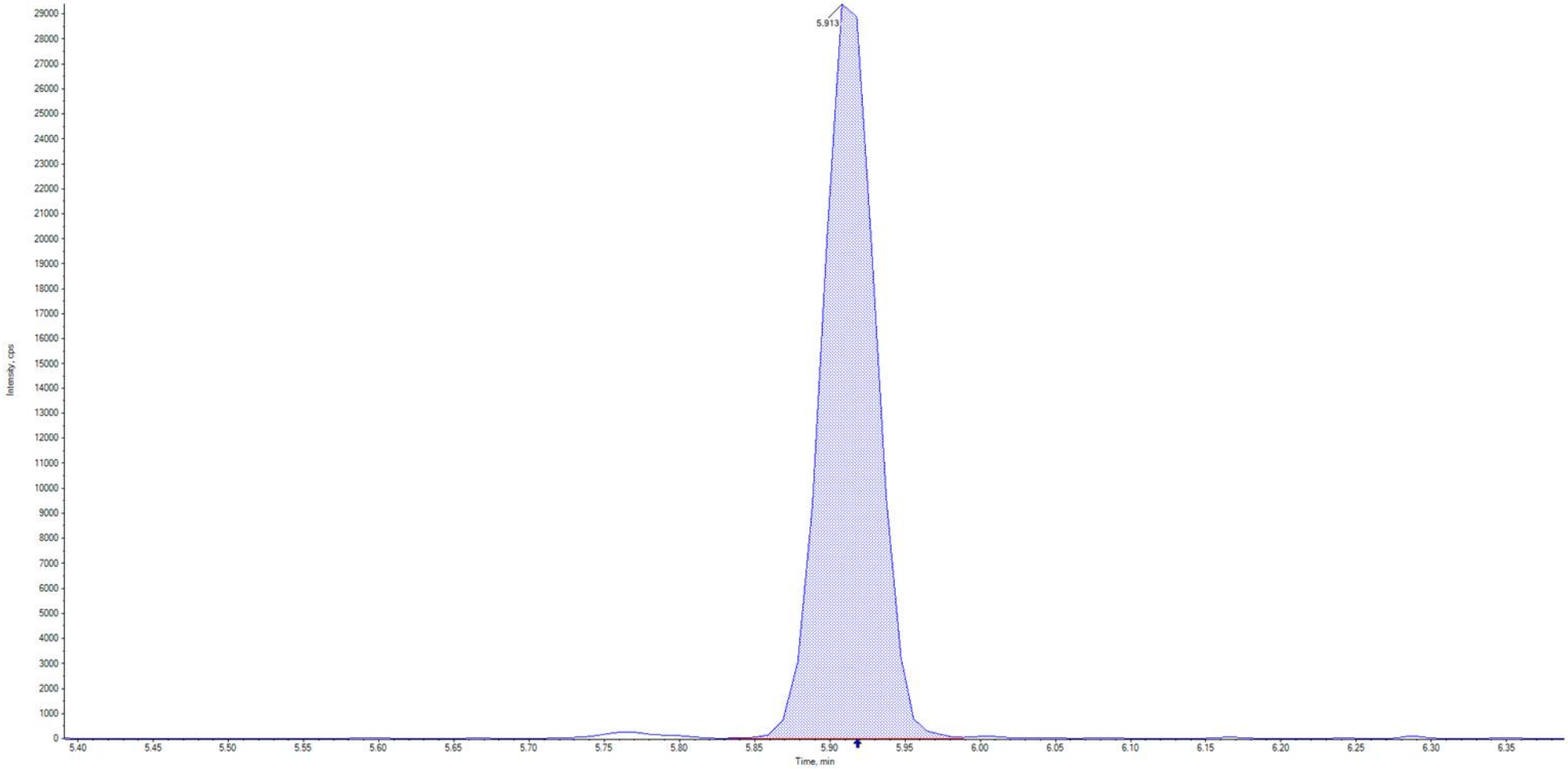

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d5-NEtFOSA
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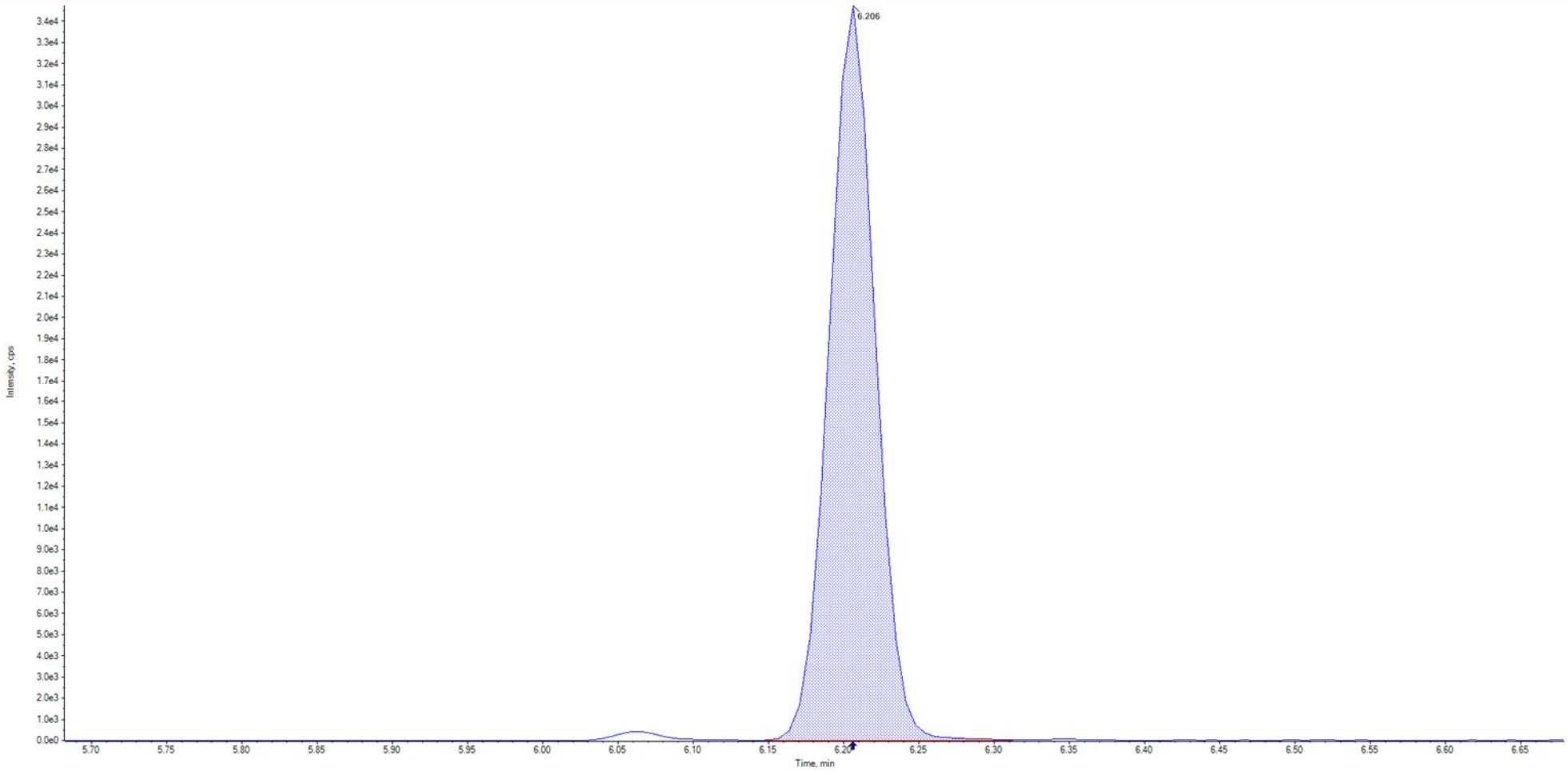

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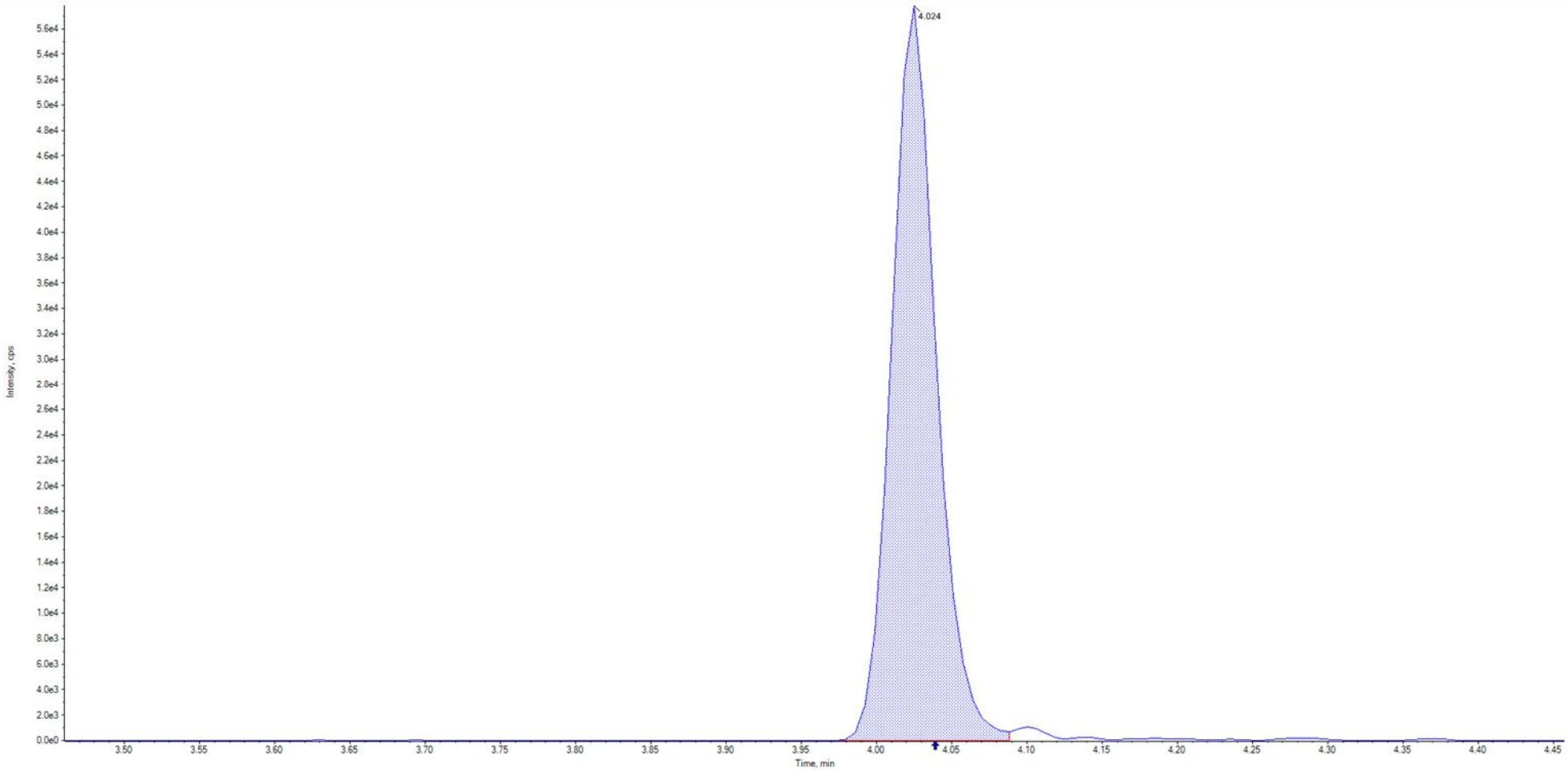
d3-NMeFOSAA
Sample: L2470744-20



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Alpha Analytical LLC
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d5-NEtFOSAA
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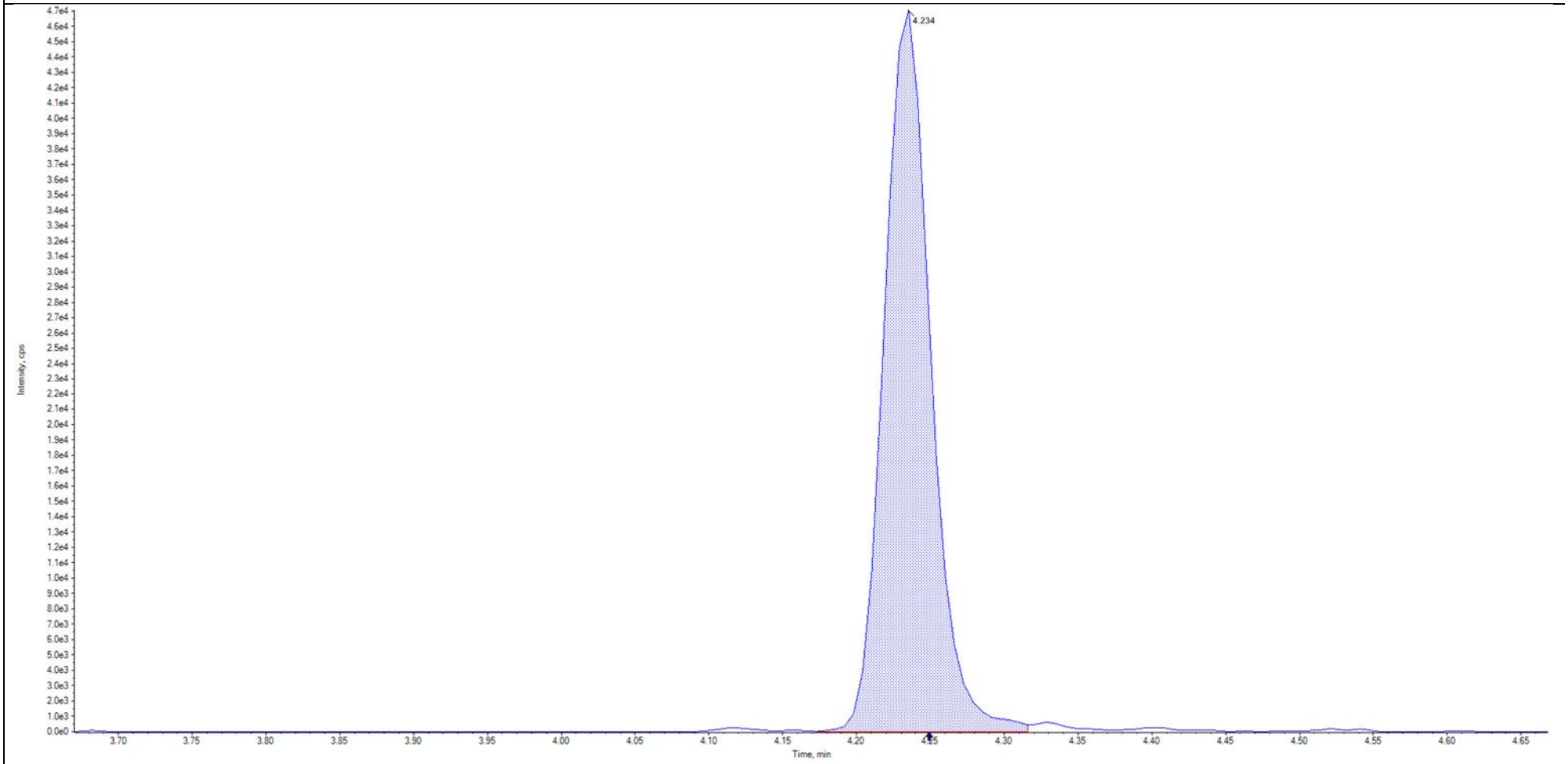

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d7-NMeFOSE
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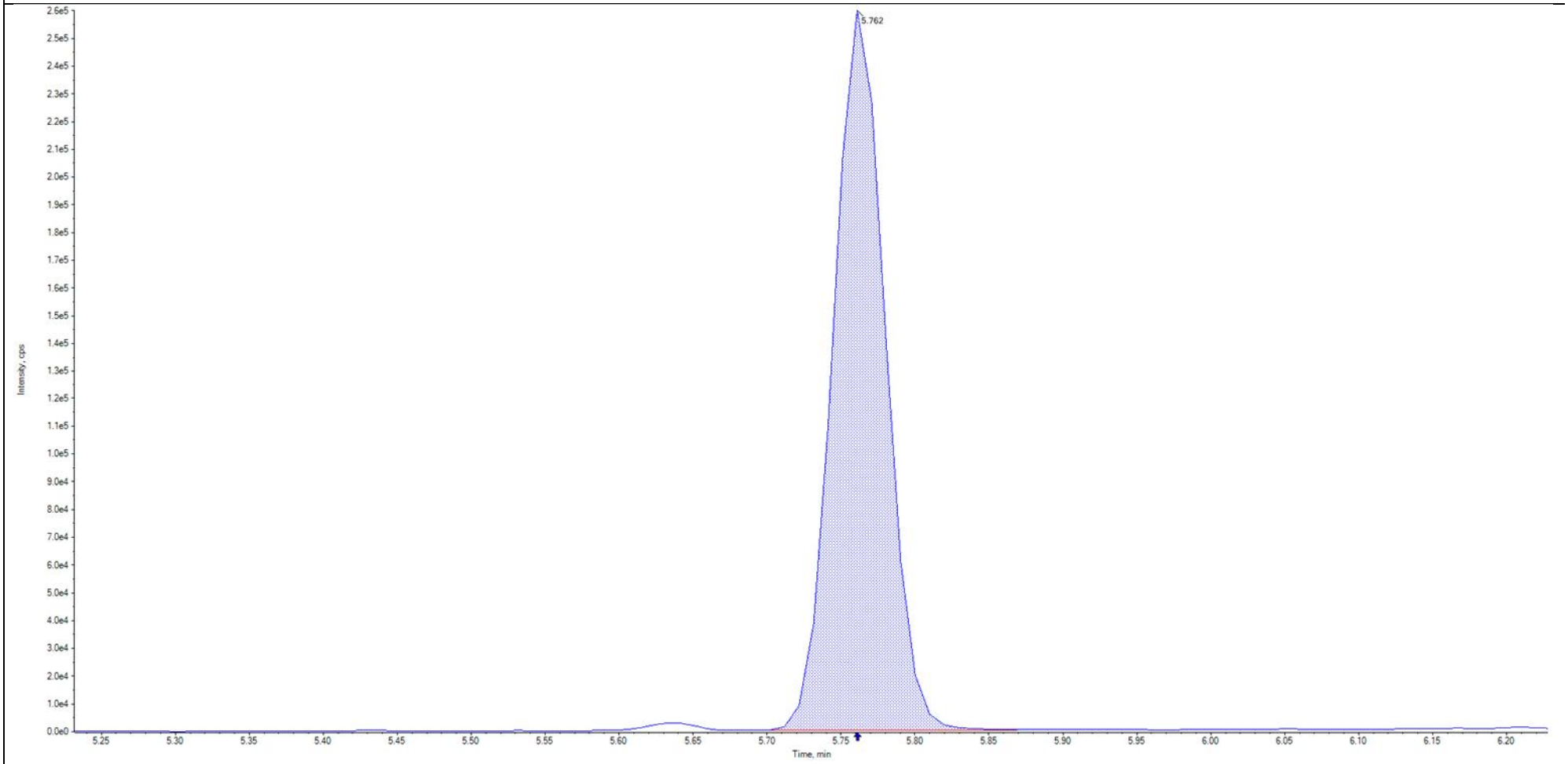

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d9-NEtFOSE
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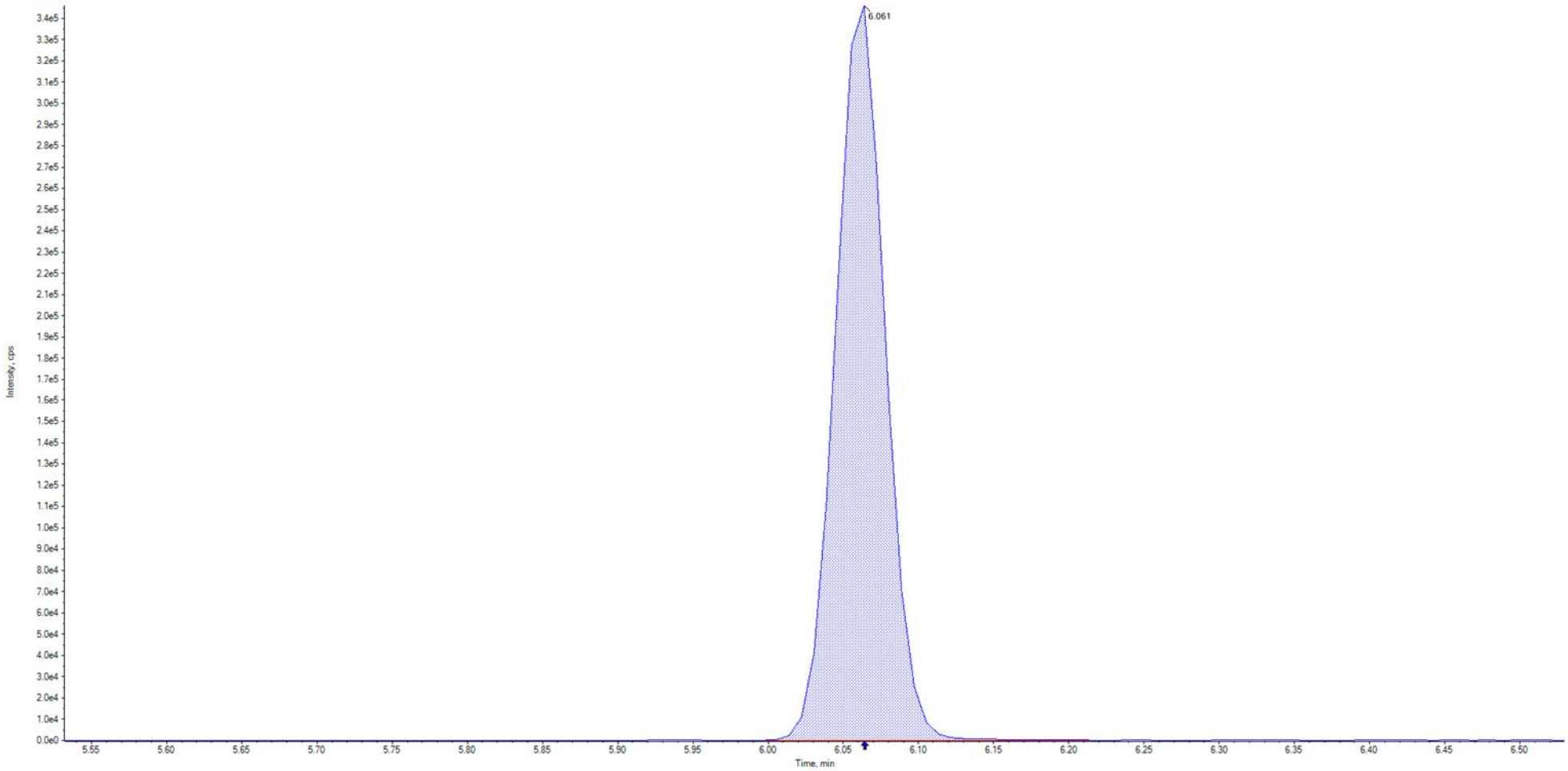

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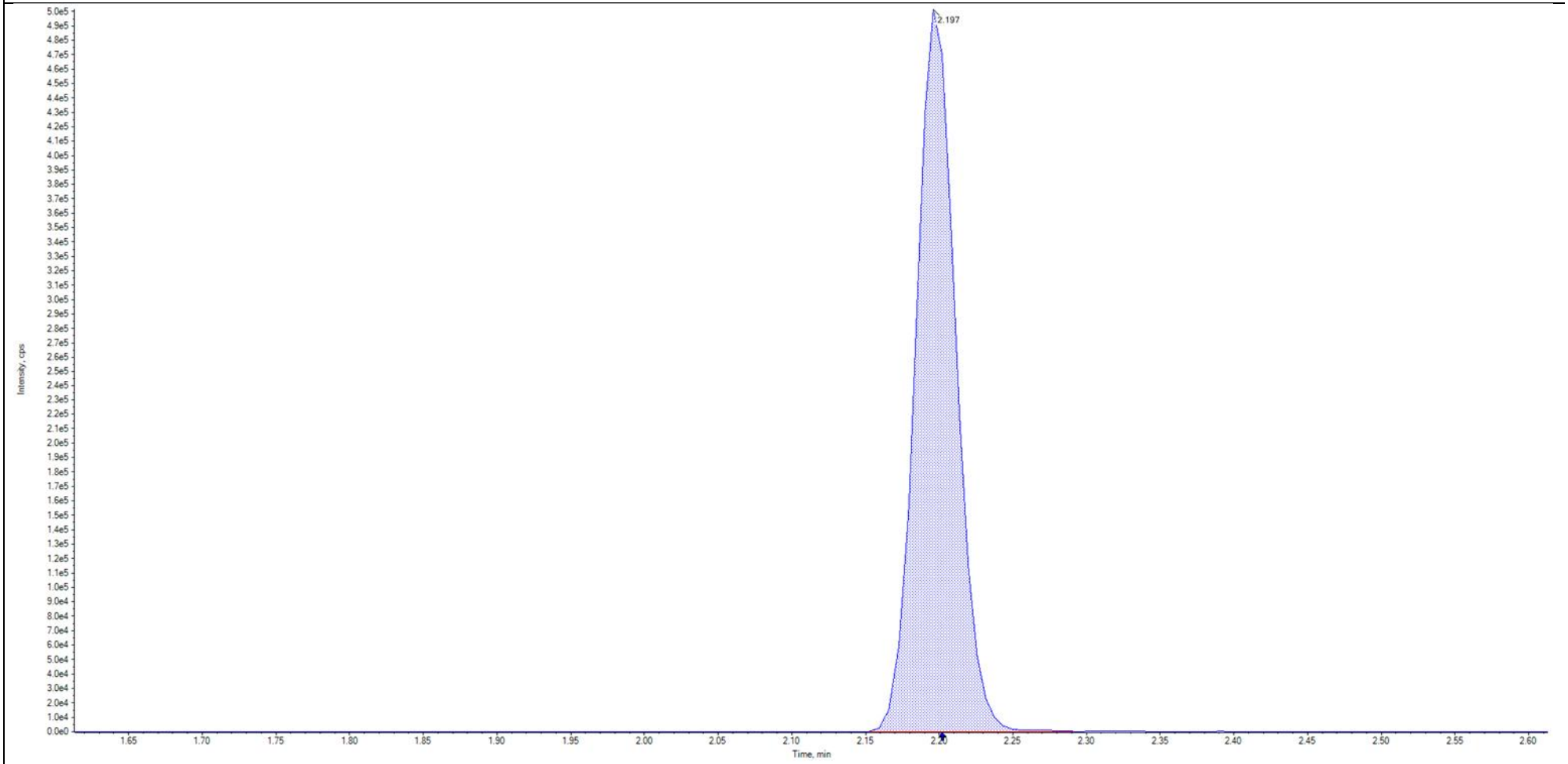
13C3-HFPO-DA
Sample: L2470744-20



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13C3-PFBA
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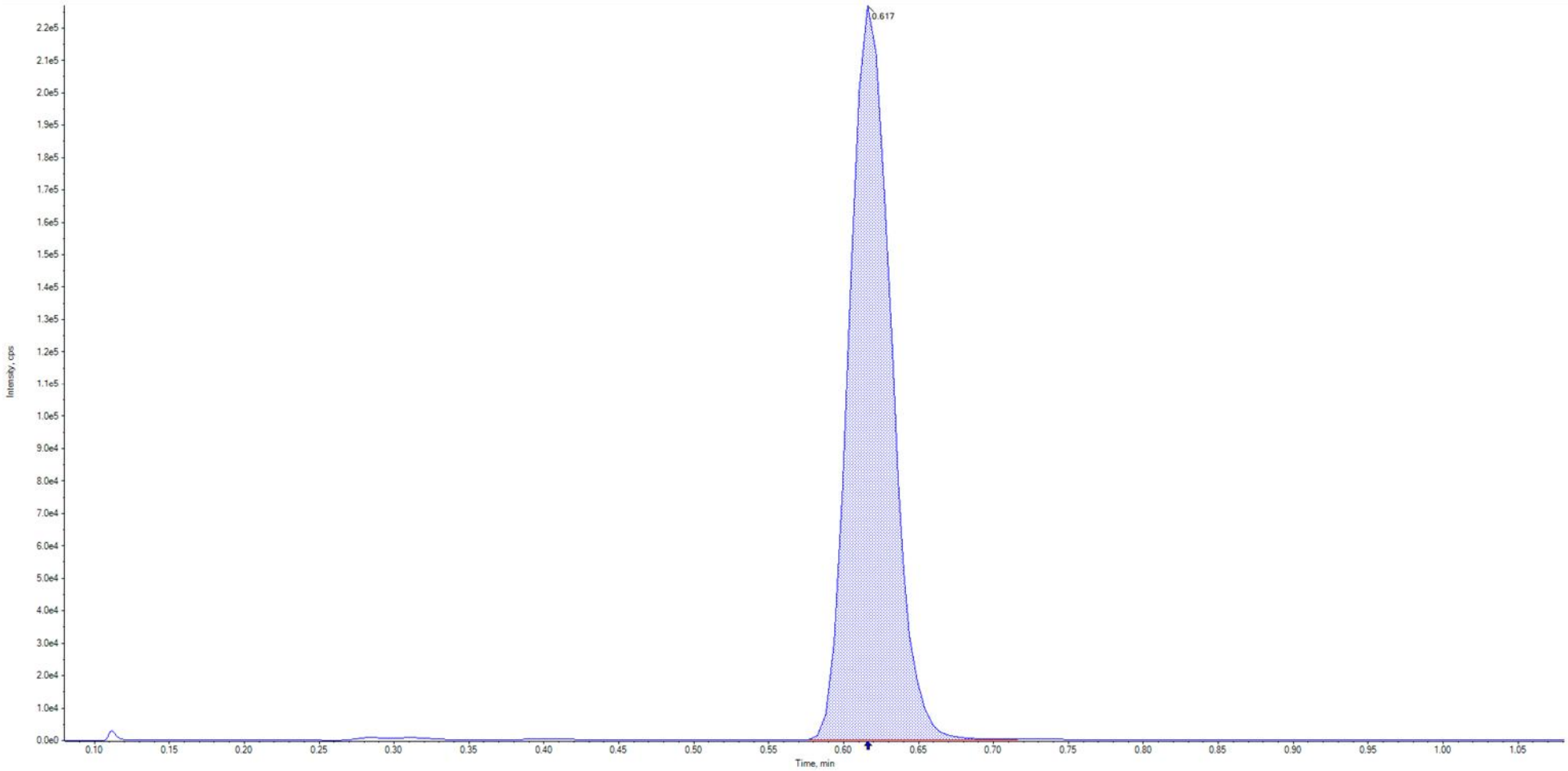

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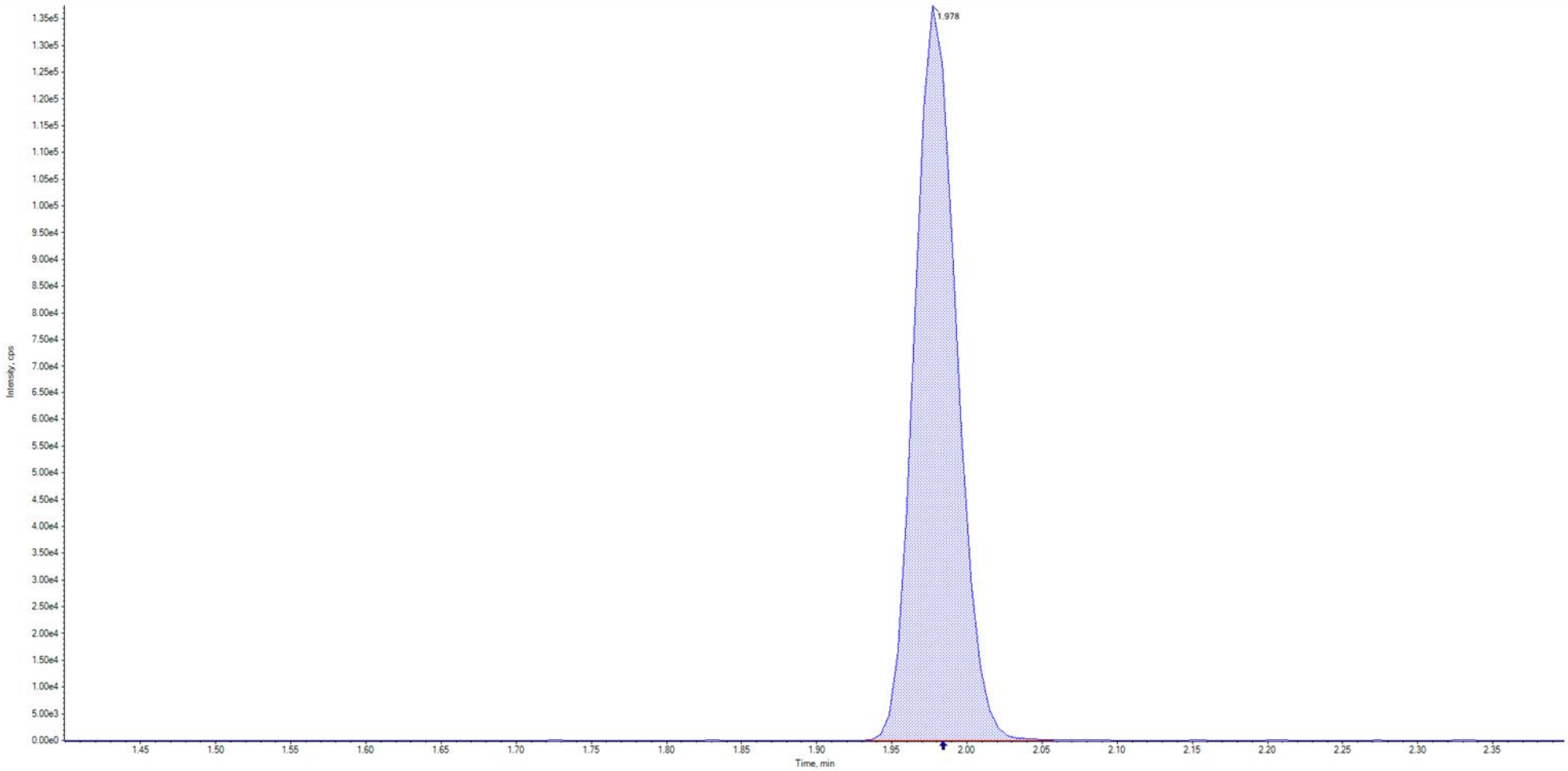
13C2-PFHxA
Sample: L2470744-20



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13C4-PFOA
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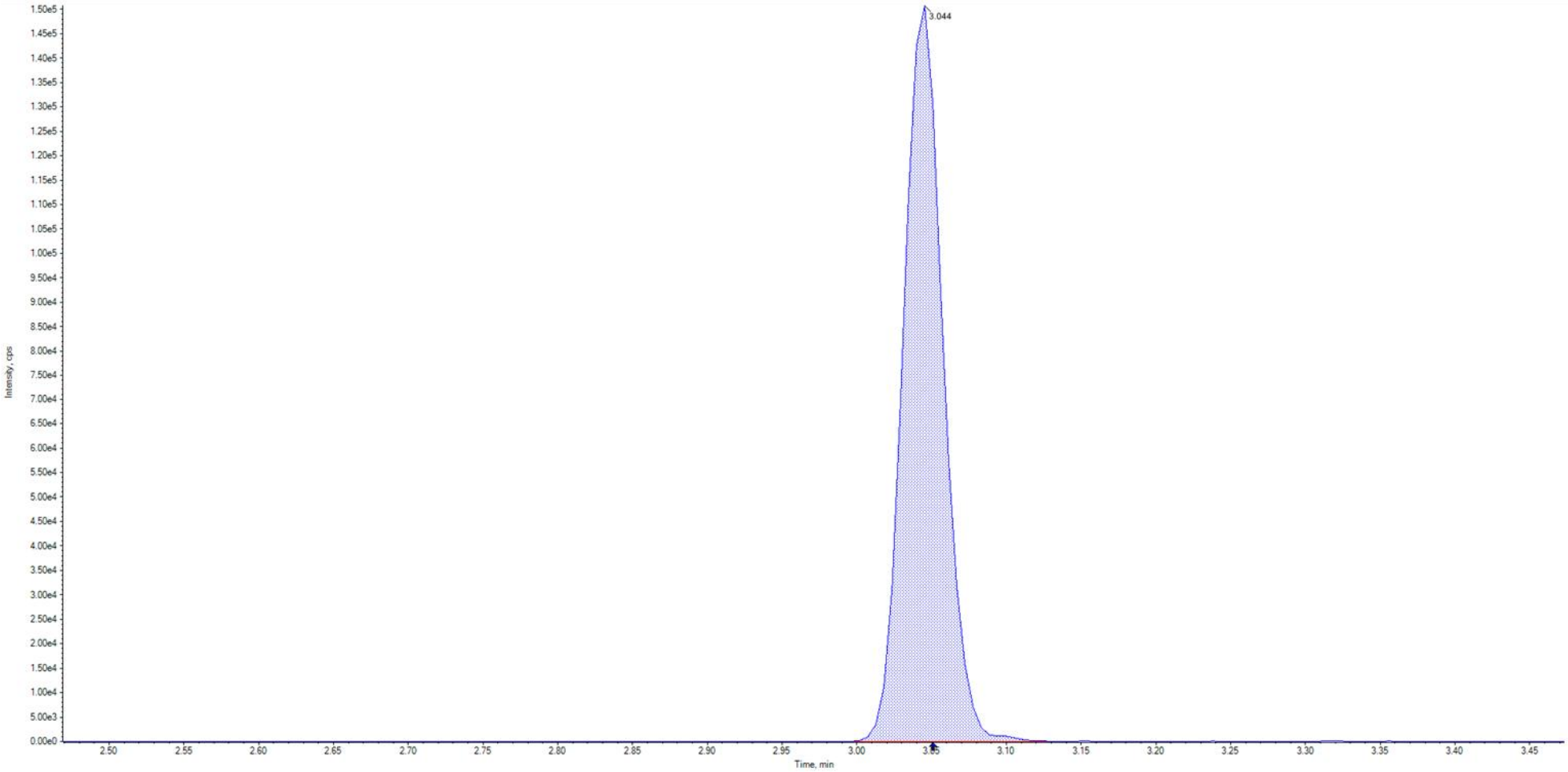

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13C5-PFNA
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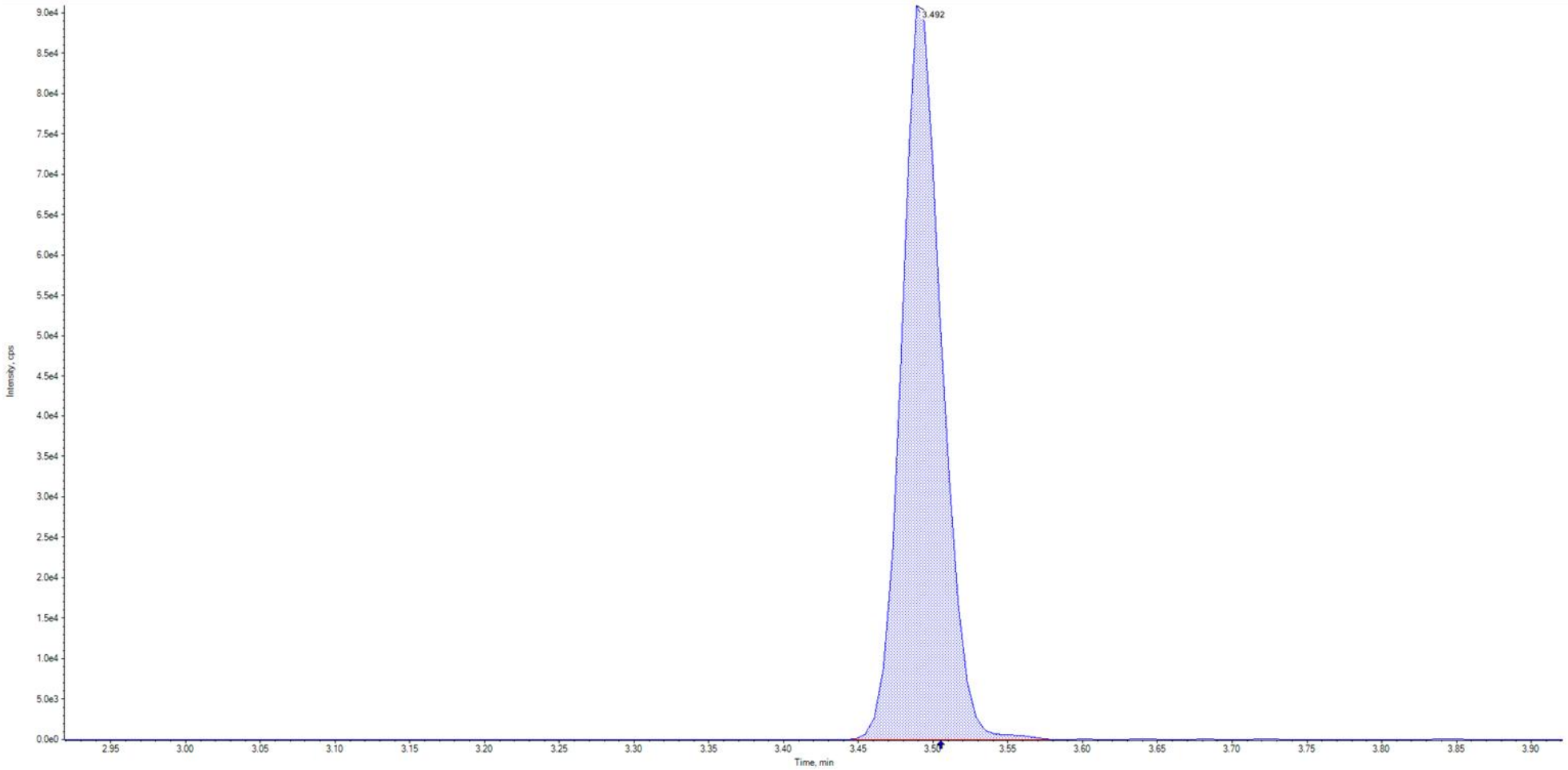

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13C2-PFDA
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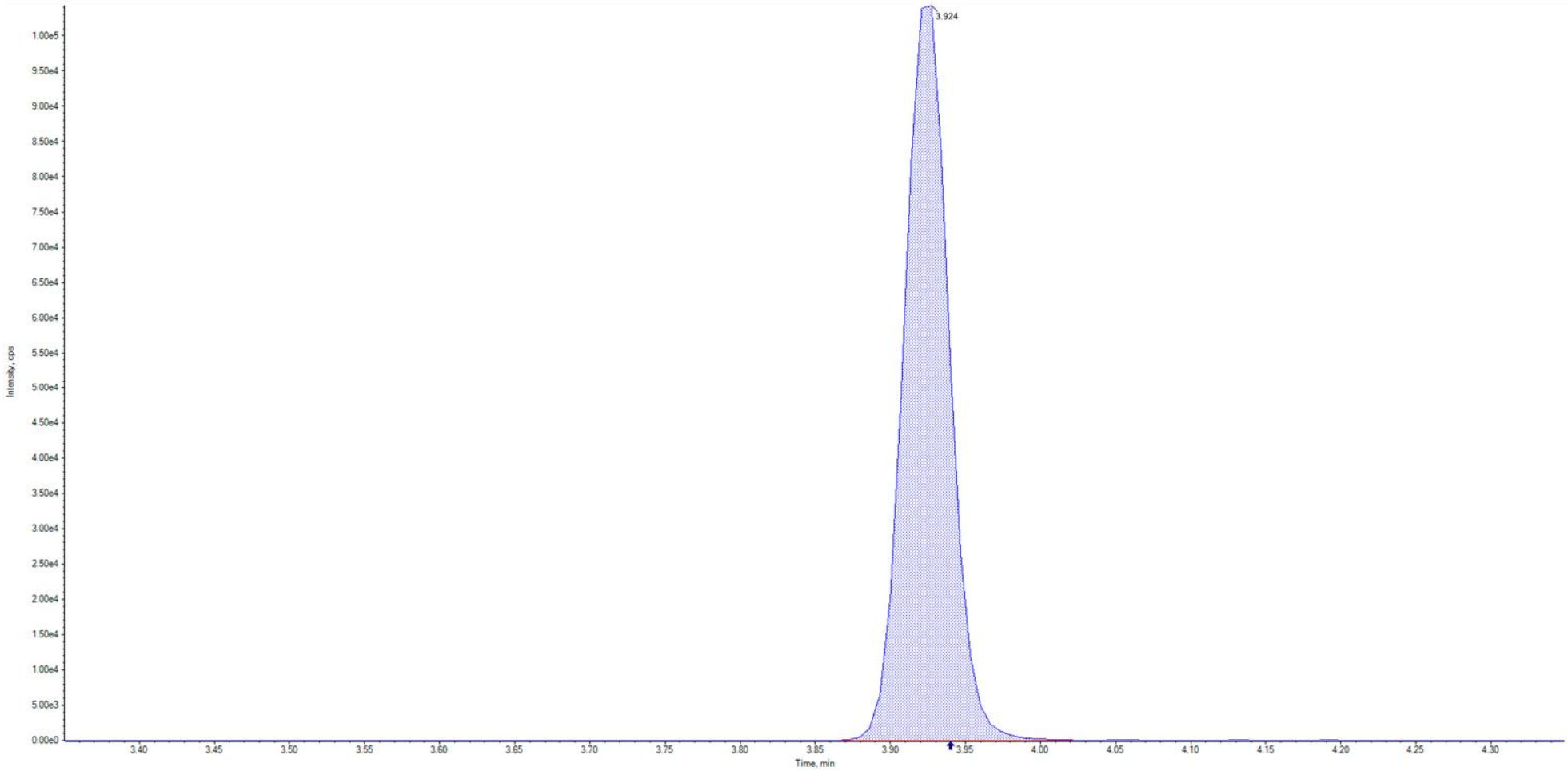

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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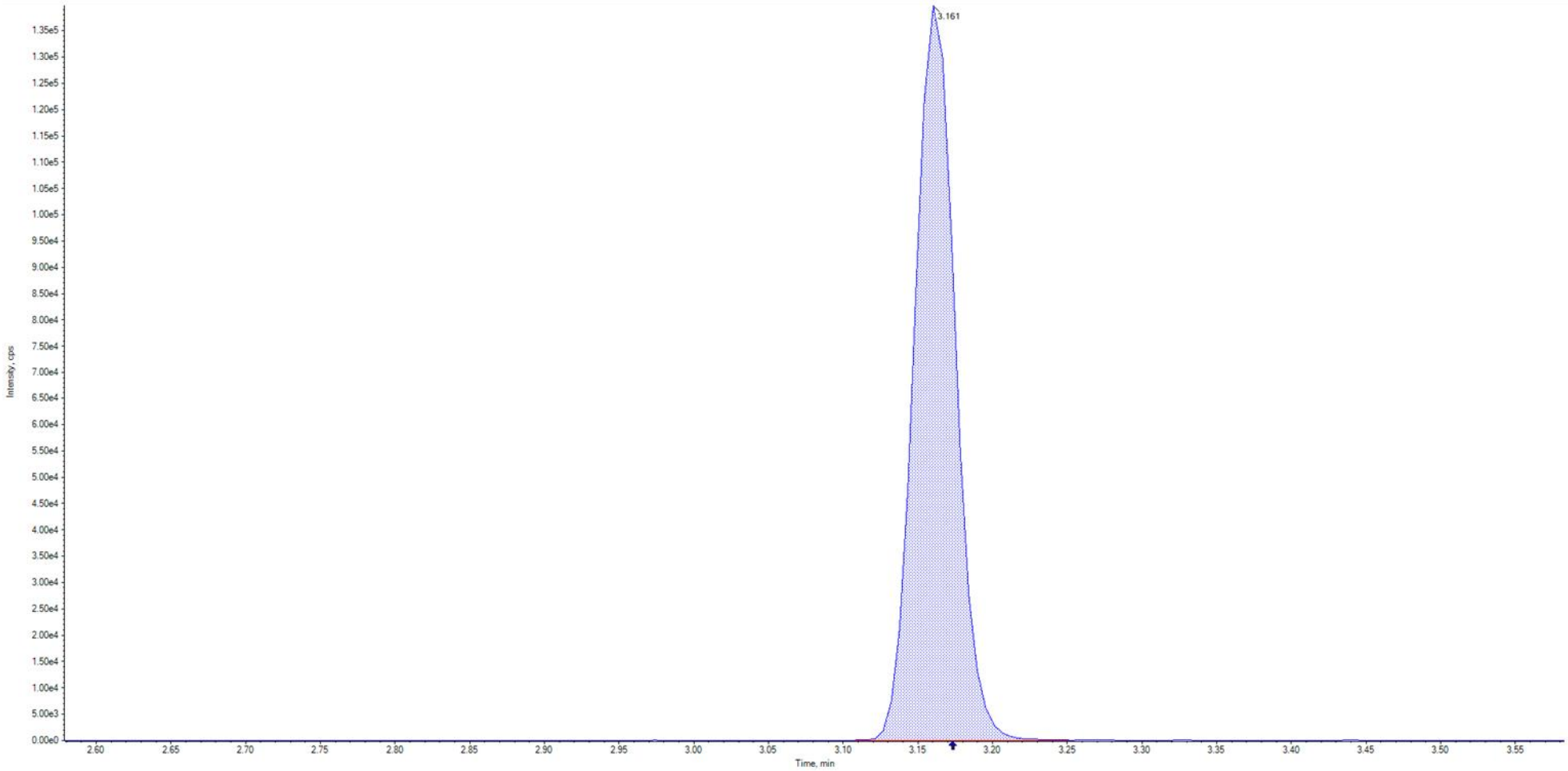
18O2-PFHxS
Sample: L2470744-20



Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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13C4-PFOS
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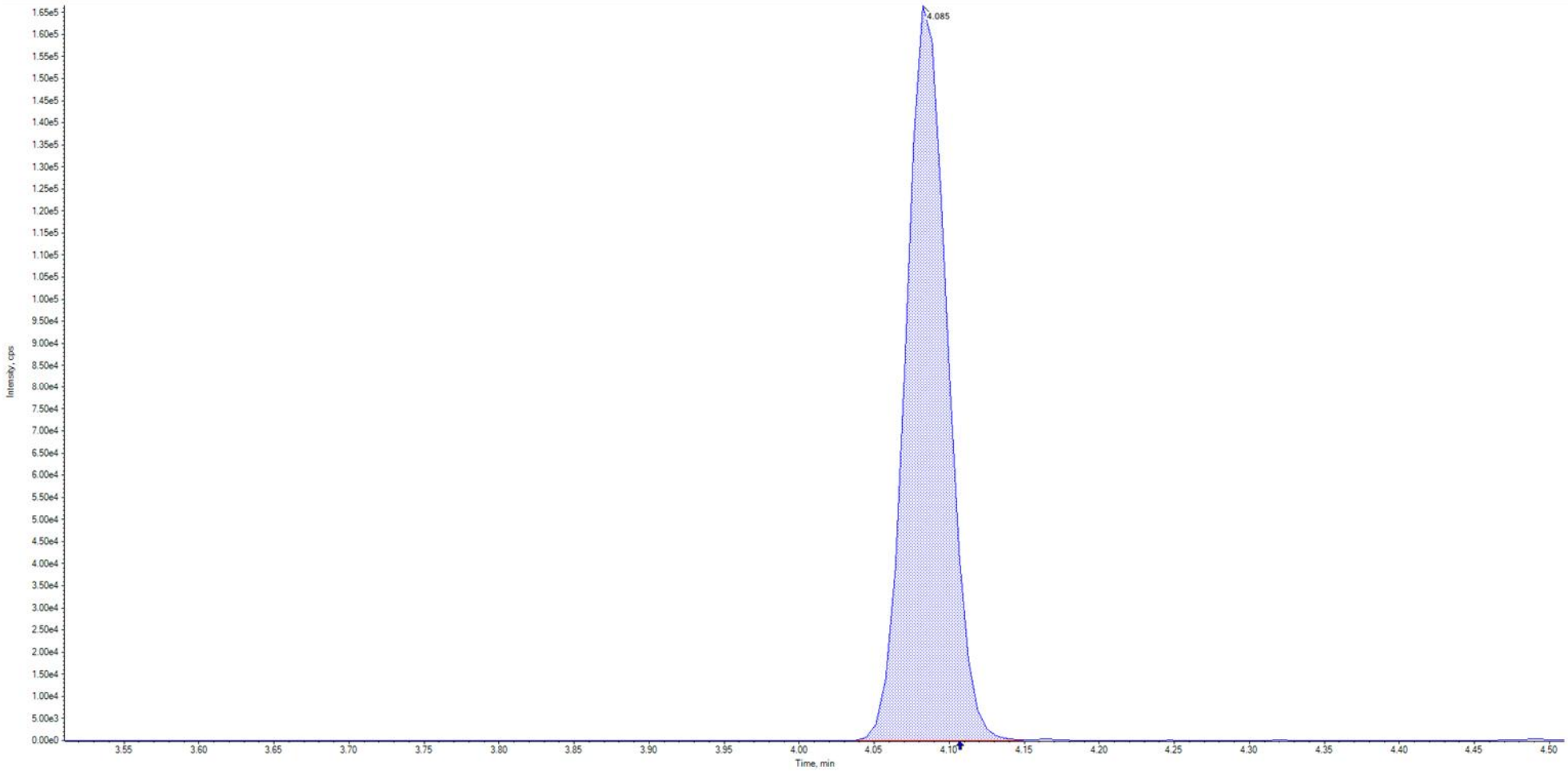

Quantify Sample Summary Report SCIEX OS Version 3.3.0.12027
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