ANALYTICAL REPORT

Job Number: 480-181249-1

Job Description: Fort Edward Landfill #558001

Contract Number: C100700

For:
New York State D.E.C.
625 Broadway
4th Floor
Albany, NY 12233

Attention: Mr. Payson Long

Approved for release.
Wyatt B Watson
Project Management Assistant I
3/2/2021 12:44 PM

Designee for
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03/02/2021

cc: Jasmine Mullins
Mr. Jeremy Wyckoff

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Job Number: 480-181249-1

Job Description: Fort Edward Landfill #558001

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Approved for release.
Wyatt B Watson
Project Management Assistant I
3/2/2021 12:44 PM

Designee for
Judy L Stone

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Job Narrative
480-181249-1

Comments
No additional comments.

Receipt
The samples were received on 2/17/2021 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.9º C.

GC/MS VOA
Method 8260C: Internal standard (ISTD) and surrogate responses for the following sample were outside control limits: SB-12C (55-56) (480-181249-2). The sample was re-analyzed and responses were outside control limits.

Method 8260C: Reported analyte concentrations in the following samples are below 200 ug/kg and may be biased low due to the samples not being collected according to 5035-L/5035A-L low-level specifications: SB-12C (32-33) (480-181249-1), SB-12C (55-56) (480-181249-2), SB-12A (13-15) (480-181249-4) and DUP-SB (13-15) (480-181249-6).

Method 8260C: Reported analyte concentrations in the following samples are below 200 ug/kg and may be biased low due to the samples not being collected according to 5035-L/5035A-L low-level specifications: SB-12A (4-6) (480-181249-3), SB-12A (4-6) (480-181249-3[MS]) and SB-12A (4-6) (480-181249-3[MSD]).

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-569920 and analytical batch 480-569897 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The associated samples are impacted: SB-12A (4-6) (480-181249-3[MS]) and SB-12A (4-6) (480-181249-3[MSD]).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8082A: Surrogate recovery was outside acceptance limits for the following matrix spike duplicate (MSD) sample: SB-12A (4-6) (480-181249-3[MSD]). The parent sample's surrogate recovery was within limits. The MSD sample has been qualified and reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010C: The recovery of Post Spike, (480-181249-C-3-A PDS), in batch 480-570189 exhibited results outside the quality control limits for Total Aluminum and Iron. However, the Serial Dilution of this sample was compliant. Therefore, no corrective action was necessary.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

LCMS
Method 537 (modified): The method blank for preparation batch 200-164298 and analytical batch 200-164334 contained Perfluorobutanesulfonic acid (PFBS) above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 537 (modified): The method blank for preparation batch 200-164298 and analytical batch 200-164334 contained Perfluorobutanoic acid (PFBA) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 537 (modified): Method 537 (modified): The “I” qualifier associated with sample SB-12A (13-15) (480-181249-4) is applied because the transition mass ratio for the indicated analyte(s) was outside of the established ratio limits. The qualitative identification has some degree of uncertainty, however analyst judgment was used to positively identify the analyte(s).

Method 537 (modified): The matrix spike (MS) recoveries for preparation batch 200-164298 and analytical batch 200-164334 were outside control limits for 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2). Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: New York State D.E.C.
Job ID: 480-181249-1
Project/Site: Fort Edward Landfill #558001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-181249-1	SB-12C (32-33)	Solid	02/11/21 11:25	02/17/21 10:30	
480-181249-2	SB-12C (55-56)	Solid	02/11/21 15:10	02/17/21 10:30	
480-181249-3	SB-12A (4-6)	Solid	02/12/21 13:45	02/17/21 10:30	
480-181249-4	SB-12A (13-15)	Solid	02/12/21 14:16	02/17/21 10:30	
480-181249-5	EB-20210210	Water	02/10/21 11:00	02/17/21 10:30	
480-181249-6	DUP-SB (13-15)	Solid	02/12/21 14:16	02/17/21 10:30	
480-181249-7	TB-20210210	Water	02/10/21 00:00	02/17/21 10:30	

Detection Summary

Client: New York State D.E.C.
Project/Site: Fort Edward Landfill #558001

Job ID: 480-181249-1

Client Sample ID: SB-12C (32-33)

Lab Sample ID: 480-181249-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	16	J	30	5.0	ug/Kg	1	☼	8260C	Total/NA
Perfluorobutanoic acid (PFBA)	0.31	J B	0.59	0.22	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.027	J	0.23	0.021	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.021	J	0.23	0.016	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	3570		12.1	5.3	mg/Kg	1	☼	6010C	Total/NA
Arsenic	0.80	J	2.4	0.48	mg/Kg	1	☼	6010C	Total/NA
Barium	13.0		0.60	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.20	J	0.24	0.034	mg/Kg	1	☼	6010C	Total/NA
Calcium	2950		60.3	4.0	mg/Kg	1	☼	6010C	Total/NA
Chromium	4.3		0.60	0.24	mg/Kg	1	☼	6010C	Total/NA
Cobalt	2.7		0.60	0.060	mg/Kg	1	☼	6010C	Total/NA
Copper	1.8		1.2	0.25	mg/Kg	1	☼	6010C	Total/NA
Iron	7020		12.1	4.2	mg/Kg	1	☼	6010C	Total/NA
Lead	1.1	J	1.2	0.29	mg/Kg	1	☼	6010C	Total/NA
Magnesium	1230		24.1	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	54.5	B	0.24	0.039	mg/Kg	1	☼	6010C	Total/NA
Nickel	3.4	J	6.0	0.28	mg/Kg	1	☼	6010C	Total/NA
Potassium	426		36.2	24.1	mg/Kg	1	☼	6010C	Total/NA
Sodium	294		169	15.7	mg/Kg	1	☼	6010C	Total/NA
Vanadium	12.6		0.60	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	14.6		2.4	0.77	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: SB-12C (55-56)

Lab Sample ID: 480-181249-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	23	J	39	6.5	ug/Kg	1	☼	8260C	Total/NA
Perfluorobutanoic acid (PFBA)	0.29	J B	0.76	0.29	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	27800		16.2	7.1	mg/Kg	1	☼	6010C	Total/NA
Arsenic	5.4		3.2	0.65	mg/Kg	1	☼	6010C	Total/NA
Barium	222		0.81	0.18	mg/Kg	1	☼	6010C	Total/NA
Beryllium	1.2		0.32	0.045	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.19	J	0.32	0.049	mg/Kg	1	☼	6010C	Total/NA
Calcium	47900		80.9	5.3	mg/Kg	1	☼	6010C	Total/NA
Chromium	41.9		0.81	0.32	mg/Kg	1	☼	6010C	Total/NA
Cobalt	18.6		0.81	0.081	mg/Kg	1	☼	6010C	Total/NA
Copper	29.1		1.6	0.34	mg/Kg	1	☼	6010C	Total/NA
Iron	32900		16.2	5.7	mg/Kg	1	☼	6010C	Total/NA
Lead	15.8		1.6	0.39	mg/Kg	1	☼	6010C	Total/NA
Magnesium	14400		32.4	1.5	mg/Kg	1	☼	6010C	Total/NA
Manganese	702	B	0.32	0.052	mg/Kg	1	☼	6010C	Total/NA
Nickel	48.3		8.1	0.37	mg/Kg	1	☼	6010C	Total/NA
Potassium	7030		48.5	32.4	mg/Kg	1	☼	6010C	Total/NA
Sodium	916		226	21.0	mg/Kg	1	☼	6010C	Total/NA
Vanadium	48.7		0.81	0.18	mg/Kg	1	☼	6010C	Total/NA
Zinc	77.0		3.2	1.0	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: SB-12A (4-6)

Lab Sample ID: 480-181249-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	11	J	31	2.2	ug/Kg	1	☼	8260C	Total/NA
Acetone	42		31	5.2	ug/Kg	1	☼	8260C	Total/NA
Chlorobenzene	2.2	J	6.1	0.81	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB-12A (4-6) (Continued)
Lab Sample ID: 480-181249-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	9.7	B	6.1	2.8	ug/Kg	1	☼	8260C	Total/NA
Toluene	1.2	J	6.1	0.46	ug/Kg	1	☼	8260C	Total/NA
Perfluorooctanoic acid (PFOA)	0.046	J	0.24	0.017	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.28		0.24	0.079	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanesulfonamide (PFOSA)	0.013	J	0.24	0.010	ug/Kg	1	☼	537 (modified)	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.18	J	2.37	0.035	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	4110		12.9	5.7	mg/Kg	1	☼	6010C	Total/NA
Arsenic	1.1	J	2.6	0.51	mg/Kg	1	☼	6010C	Total/NA
Barium	19.1		0.64	0.14	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.21	J	0.26	0.036	mg/Kg	1	☼	6010C	Total/NA
Calcium	3000		64.3	4.2	mg/Kg	1	☼	6010C	Total/NA
Chromium	4.6		0.64	0.26	mg/Kg	1	☼	6010C	Total/NA
Cobalt	2.2		0.64	0.064	mg/Kg	1	☼	6010C	Total/NA
Copper	1.3		1.3	0.27	mg/Kg	1	☼	6010C	Total/NA
Iron	6000		12.9	4.5	mg/Kg	1	☼	6010C	Total/NA
Lead	1.5		1.3	0.31	mg/Kg	1	☼	6010C	Total/NA
Magnesium	1230		25.7	1.2	mg/Kg	1	☼	6010C	Total/NA
Manganese	60.1	B	0.26	0.041	mg/Kg	1	☼	6010C	Total/NA
Nickel	3.4	J	6.4	0.30	mg/Kg	1	☼	6010C	Total/NA
Potassium	408		38.6	25.7	mg/Kg	1	☼	6010C	Total/NA
Sodium	249		180	16.7	mg/Kg	1	☼	6010C	Total/NA
Vanadium	11.1		0.64	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	14.5		2.6	0.82	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: SB-12A (13-15)
Lab Sample ID: 480-181249-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	24	J	30	5.1	ug/Kg	1	☼	8260C	Total/NA
Perfluorobutanoic acid (PFBA)	0.53	J B	0.59	0.23	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.022	J	0.24	0.021	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.033	J	0.24	0.017	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.013	J B	0.24	0.010	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	8340		11.6	5.1	mg/Kg	1	☼	6010C	Total/NA
Arsenic	1.2	J	2.3	0.46	mg/Kg	1	☼	6010C	Total/NA
Barium	50.8		0.58	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.43		0.23	0.032	mg/Kg	1	☼	6010C	Total/NA
Calcium	2860		57.8	3.8	mg/Kg	1	☼	6010C	Total/NA
Chromium	11.1		0.58	0.23	mg/Kg	1	☼	6010C	Total/NA
Cobalt	4.8		0.58	0.058	mg/Kg	1	☼	6010C	Total/NA
Copper	6.0		1.2	0.24	mg/Kg	1	☼	6010C	Total/NA
Iron	12000		11.6	4.0	mg/Kg	1	☼	6010C	Total/NA
Lead	3.1		1.2	0.28	mg/Kg	1	☼	6010C	Total/NA
Magnesium	2610		23.1	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	87.3	B	0.23	0.037	mg/Kg	1	☼	6010C	Total/NA
Nickel	9.9		5.8	0.27	mg/Kg	1	☼	6010C	Total/NA
Potassium	1550		34.7	23.1	mg/Kg	1	☼	6010C	Total/NA
Sodium	337		162	15.0	mg/Kg	1	☼	6010C	Total/NA
Vanadium	22.0		0.58	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	26.4		2.3	0.74	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
Job ID: 480-181249-1
Project/Site: Fort Edward Landfill #558001

Client Sample ID: EB-20210210
Lab Sample ID: 480-181249-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.2	J	10	3.0	ug/L	1		8260C	Total/NA

Client Sample ID: DUP-SB (13-15)
Lab Sample ID: 480-181249-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	16	J	31	5.2	ug/Kg	1	☼	8260C	Total/NA
Perfluorobutanoic acid (PFBA)	0.36	J B	0.58	0.22	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.030	J	0.23	0.021	ug/Kg	1	☼	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.027	J	0.23	0.016	ug/Kg	1	☼	537 (modified)	Total/NA
Aluminum	4290		12.4	5.5	mg/Kg	1	☼	6010C	Total/NA
Arsenic	0.96	J	2.5	0.50	mg/Kg	1	☼	6010C	Total/NA
Barium	20.1		0.62	0.14	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.24	J	0.25	0.035	mg/Kg	1	☼	6010C	Total/NA
Calcium	2630		62.1	4.1	mg/Kg	1	☼	6010C	Total/NA
Chromium	5.0		0.62	0.25	mg/Kg	1	☼	6010C	Total/NA
Cobalt	2.7		0.62	0.062	mg/Kg	1	☼	6010C	Total/NA
Copper	2.5		1.2	0.26	mg/Kg	1	☼	6010C	Total/NA
Iron	7350		12.4	4.4	mg/Kg	1	☼	6010C	Total/NA
Lead	1.1	J	1.2	0.30	mg/Kg	1	☼	6010C	Total/NA
Magnesium	1580		24.9	1.2	mg/Kg	1	☼	6010C	Total/NA
Manganese	51.0	B	0.25	0.040	mg/Kg	1	☼	6010C	Total/NA
Nickel	4.0	J	6.2	0.29	mg/Kg	1	☼	6010C	Total/NA
Potassium	585		37.3	24.9	mg/Kg	1	☼	6010C	Total/NA
Sodium	289		174	16.2	mg/Kg	1	☼	6010C	Total/NA
Vanadium	14.7		0.62	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	18.8		2.5	0.80	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: TB-20210210
Lab Sample ID: 480-181249-7

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: New York State D.E.C.
Job ID: 480-181249-1
Project/Site: Fort Edward Landfill #558001

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL BUR
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3050B	Preparation, Metals	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
3535	Solid-Phase Extraction (SPE)	SW846	TAL BUR
3550C	Ultrasonic Extraction	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
5035A_L	Closed System Purge and Trap	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	TAL BUF
7471B	Preparation, Mercury	SW846	TAL BUF
SHAKE	Shake Extraction with Ultrasonic Bath Extraction	SW846	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = Eurofins TestAmerica, Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Client Sample ID: SB-12C (32-33)
Date Collected: 02/11/21 11:25
Date Received: 02/17/21 10:30

Lab Sample ID: 480-181249-1
Matrix: Solid
Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.9	U	5.9	0.43	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
1,1,2,2-Tetrachloroethane	5.9	U	5.9	0.96	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
1,1,2-Trichloroethane	5.9	U	5.9	0.77	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.9	U	5.9	1.3	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
1,1-Dichloroethane	5.9	U	5.9	0.72	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
1,1-Dichloroethene	5.9	U	5.9	0.72	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
1,2,4-Trichlorobenzene	5.9	U	5.9	0.36	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
1,2-Dibromo-3-Chloropropane	5.9	U	5.9	3.0	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
1,2-Dichlorobenzene	5.9	U	5.9	0.46	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
1,2-Dichloroethane	5.9	U	5.9	0.30	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
1,2-Dichloropropane	5.9	U	5.9	3.0	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
1,3-Dichlorobenzene	5.9	U	5.9	0.30	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
1,4-Dichlorobenzene	5.9	U	5.9	0.83	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
2-Butanone (MEK)	30	U	30	2.2	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
2-Hexanone	30	U	30	3.0	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
4-Methyl-2-pentanone (MIBK)	30	U	30	1.9	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
Acetone	**16**	**J**	30	5.0	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
Benzene	5.9	U	5.9	0.29	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
Bromodichloromethane	5.9	U	5.9	0.79	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
Bromoform	5.9	U	5.9	3.0	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
Bromomethane	5.9	U	5.9	0.53	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
Carbon disulfide	5.9	U	5.9	3.0	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
Carbon tetrachloride	5.9	U	5.9	0.57	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
Chlorobenzene	5.9	U	5.9	0.78	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
Dibromochloromethane	5.9	U	5.9	0.76	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
Chloroethane	5.9	U	5.9	1.3	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
Chloroform	5.9	U	5.9	0.37	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
Chloromethane	5.9	U	5.9	0.36	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
cis-1,2-Dichloroethene	5.9	U	5.9	0.76	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
cis-1,3-Dichloropropene	5.9	U	5.9	0.85	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
Cyclohexane	5.9	U	5.9	0.83	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
Dichlorodifluoromethane	5.9	U	5.9	0.49	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
Ethylbenzene	5.9	U	5.9	0.41	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
1,2-Dibromoethane	5.9	U	5.9	0.76	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
Isopropylbenzene	5.9	U	5.9	0.89	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
Methyl acetate	30	U	30	3.6	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
Methyl tert-butyl ether	5.9	U	5.9	0.58	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
Methylcyclohexane	5.9	U	5.9	0.90	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
Methylene Chloride	5.9	U	5.9	2.7	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
Styrene	5.9	U	5.9	0.30	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
Tetrachloroethene	5.9	U	5.9	0.79	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
Toluene	5.9	U	5.9	0.45	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
trans-1,2-Dichloroethene	5.9	U	5.9	0.61	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
trans-1,3-Dichloropropene	5.9	U	5.9	2.6	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
Trichloroethene	5.9	U	5.9	1.3	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
Trichlorofluoromethane	5.9	U	5.9	0.56	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
Vinyl chloride	5.9	U	5.9	0.72	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1
Xylenes, Total	12	U	12	0.99	ug/Kg	☼	02/17/21 10:30	02/17/21 14:45	1

Client Sample ID: SB-12C (32-33)
Date Collected: 02/11/21 11:25
Date Received: 02/17/21 10:30

Lab Sample ID: 480-181249-1
Matrix: Solid
Percent Solids: 84.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		71 - 125	02/17/21 10:30	02/17/21 14:45	1
1,2-Dichloroethane-d4 (Surr)	97		64 - 126	02/17/21 10:30	02/17/21 14:45	1
4-Bromofluorobenzene (Surr)	109		72 - 126	02/17/21 10:30	02/17/21 14:45	1
Dibromofluoromethane (Surr)	104		60 - 140	02/17/21 10:30	02/17/21 14:45	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.29	U	0.29	0.056	mg/Kg	☼	02/19/21 08:56	02/21/21 18:57	1
PCB-1221	0.29	U	0.29	0.056	mg/Kg	☼	02/19/21 08:56	02/21/21 18:57	1
PCB-1232	0.29	U	0.29	0.056	mg/Kg	☼	02/19/21 08:56	02/21/21 18:57	1
PCB-1242	0.29	U	0.29	0.056	mg/Kg	☼	02/19/21 08:56	02/21/21 18:57	1
PCB-1248	0.29	U	0.29	0.056	mg/Kg	☼	02/19/21 08:56	02/21/21 18:57	1
PCB-1254	0.29	U	0.29	0.13	mg/Kg	☼	02/19/21 08:56	02/21/21 18:57	1
PCB-1260	0.29	U	0.29	0.13	mg/Kg	☼	02/19/21 08:56	02/21/21 18:57	1
PCB-1262	0.29	U	0.29	0.13	mg/Kg	☼	02/19/21 08:56	02/21/21 18:57	1
PCB-1268	0.29	U	0.29	0.13	mg/Kg	☼	02/19/21 08:56	02/21/21 18:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	128		60 - 154	02/19/21 08:56	02/21/21 18:57	1
Tetrachloro-m-xylene	112		60 - 154	02/19/21 08:56	02/21/21 18:57	1
DCB Decachlorobiphenyl	202	*	65 - 174	02/19/21 08:56	02/21/21 18:57	1
DCB Decachlorobiphenyl	112		65 - 174	02/19/21 08:56	02/21/21 18:57	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.31**	**J B**	0.59	0.22	ug/Kg	☼	02/25/21 15:08	02/26/21 13:52	1
Perfluoropentanoic acid (PFPeA)	**0.027**	**J**	0.23	0.021	ug/Kg	☼	02/25/21 15:08	02/26/21 13:52	1
Perfluorohexanoic acid (PFHxA)	0.23	U	0.23	0.028	ug/Kg	☼	02/25/21 15:08	02/26/21 13:52	1
Perfluoroheptanoic acid (PFHpA)	0.23	U	0.23	0.027	ug/Kg	☼	02/25/21 15:08	02/26/21 13:52	1
Perfluorooctanoic acid (PFOA)	**0.021**	**J**	0.23	0.016	ug/Kg	☼	02/25/21 15:08	02/26/21 13:52	1
Perfluorononanoic acid (PFNA)	0.23	U	0.23	0.023	ug/Kg	☼	02/25/21 15:08	02/26/21 13:52	1
Perfluorodecanoic acid (PFDA)	0.23	U	0.23	0.025	ug/Kg	☼	02/25/21 15:08	02/26/21 13:52	1
Perfluoroundecanoic acid (PFUnA)	0.23	U	0.23	0.028	ug/Kg	☼	02/25/21 15:08	02/26/21 13:52	1
Perfluorododecanoic acid (PFDoA)	0.23	U	0.23	0.018	ug/Kg	☼	02/25/21 15:08	02/26/21 13:52	1
Perfluorotridecanoic acid (PFTriA)	0.23	U	0.23	0.015	ug/Kg	☼	02/25/21 15:08	02/26/21 13:52	1
Perfluorotetradecanoic acid (PFTeA)	0.23	U	0.23	0.022	ug/Kg	☼	02/25/21 15:08	02/26/21 13:52	1
Perfluorobutanesulfonic acid (PFBS)	0.23	U	0.23	0.010	ug/Kg	☼	02/25/21 15:08	02/26/21 13:52	1
Perfluorohexanesulfonic acid (PFHxS)	0.23	U	0.23	0.018	ug/Kg	☼	02/25/21 15:08	02/26/21 13:52	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.23	U	0.23	0.018	ug/Kg	☼	02/25/21 15:08	02/26/21 13:52	1
Perfluorooctanesulfonic acid (PFOS)	0.23	U	0.23	0.078	ug/Kg	☼	02/25/21 15:08	02/26/21 13:52	1
Perfluorodecanesulfonic acid (PFDS)	0.23	U	0.23	0.022	ug/Kg	☼	02/25/21 15:08	02/26/21 13:52	1
Perfluorooctanesulfonamide (PFOSA)	0.23	U	0.23	0.010	ug/Kg	☼	02/25/21 15:08	02/26/21 13:52	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.34	U	2.34	0.040	ug/Kg	☼	02/25/21 15:08	02/26/21 13:52	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.34	U	2.34	0.035	ug/Kg	☼	02/25/21 15:08	02/26/21 13:52	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	2.34	U	2.34	0.026	ug/Kg	☼	02/25/21 15:08	02/26/21 13:52	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	2.34	U	2.34	0.034	ug/Kg	☼	02/25/21 15:08	02/26/21 13:52	1

Client Sample ID: SB-12C (32-33)
Date Collected: 02/11/21 11:25
Date Received: 02/17/21 10:30

Lab Sample ID: 480-181249-1
Matrix: Solid
Percent Solids: 84.2

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*98*		*50 - 150*	*02/25/21 15:08*	*02/26/21 13:52*	*1*
13C4 PFHpA	*101*		*50 - 150*	*02/25/21 15:08*	*02/26/21 13:52*	*1*
13C4 PFOA	*102*		*50 - 150*	*02/25/21 15:08*	*02/26/21 13:52*	*1*
13C4 PFOS	*101*		*50 - 150*	*02/25/21 15:08*	*02/26/21 13:52*	*1*
13C5 PFNA	*98*		*50 - 150*	*02/25/21 15:08*	*02/26/21 13:52*	*1*
13C4 PFBA	*42*		*25 - 150*	*02/25/21 15:08*	*02/26/21 13:52*	*1*
13C2 PFHxA	*105*		*50 - 150*	*02/25/21 15:08*	*02/26/21 13:52*	*1*
13C2 PFDA	*93*		*50 - 150*	*02/25/21 15:08*	*02/26/21 13:52*	*1*
13C2 PFUnA	*88*		*50 - 150*	*02/25/21 15:08*	*02/26/21 13:52*	*1*
13C2 PFDoA	*90*		*50 - 150*	*02/25/21 15:08*	*02/26/21 13:52*	*1*
13C8 FOSA	*96*		*25 - 150*	*02/25/21 15:08*	*02/26/21 13:52*	*1*
13C5 PFPeA	*98*		*25 - 150*	*02/25/21 15:08*	*02/26/21 13:52*	*1*
13C2 PFTeDA	*74*		*50 - 150*	*02/25/21 15:08*	*02/26/21 13:52*	*1*
d3-NMeFOSAA	*94*		*50 - 150*	*02/25/21 15:08*	*02/26/21 13:52*	*1*
d5-NEtFOSAA	*86*		*50 - 150*	*02/25/21 15:08*	*02/26/21 13:52*	*1*
M2-6:2 FTS	*104*		*25 - 150*	*02/25/21 15:08*	*02/26/21 13:52*	*1*
M2-8:2 FTS	*118*		*25 - 150*	*02/25/21 15:08*	*02/26/21 13:52*	*1*
13C3 PFBS	*99*		*50 - 150*	*02/25/21 15:08*	*02/26/21 13:52*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3570**		12.1	5.3	mg/Kg	☼	02/18/21 16:33	02/19/21 14:42	1
Antimony	18.1	U	18.1	0.48	mg/Kg	☼	02/18/21 16:33	02/19/21 14:42	1
Arsenic	**0.80**	**J**	2.4	0.48	mg/Kg	☼	02/18/21 16:33	02/19/21 14:42	1
Barium	**13.0**		0.60	0.13	mg/Kg	☼	02/18/21 16:33	02/19/21 14:42	1
Beryllium	**0.20**	**J**	0.24	0.034	mg/Kg	☼	02/18/21 16:33	02/19/21 14:42	1
Cadmium	0.24	U	0.24	0.036	mg/Kg	☼	02/18/21 16:33	02/19/21 14:42	1
Calcium	**2950**		60.3	4.0	mg/Kg	☼	02/18/21 16:33	02/19/21 14:42	1
Chromium	**4.3**		0.60	0.24	mg/Kg	☼	02/18/21 16:33	02/19/21 14:42	1
Cobalt	**2.7**		0.60	0.060	mg/Kg	☼	02/18/21 16:33	02/19/21 14:42	1
Copper	**1.8**		1.2	0.25	mg/Kg	☼	02/18/21 16:33	02/19/21 14:42	1
Iron	**7020**		12.1	4.2	mg/Kg	☼	02/18/21 16:33	02/19/21 14:42	1
Lead	**1.1**	**J**	1.2	0.29	mg/Kg	☼	02/18/21 16:33	02/19/21 14:42	1
Magnesium	**1230**		24.1	1.1	mg/Kg	☼	02/18/21 16:33	02/19/21 14:42	1
Manganese	**54.5**	**B**	0.24	0.039	mg/Kg	☼	02/18/21 16:33	02/19/21 14:42	1
Nickel	**3.4**	**J**	6.0	0.28	mg/Kg	☼	02/18/21 16:33	02/19/21 14:42	1
Potassium	**426**		36.2	24.1	mg/Kg	☼	02/18/21 16:33	02/19/21 14:42	1
Selenium	4.8	U	4.8	0.48	mg/Kg	☼	02/18/21 16:33	02/19/21 14:42	1
Silver	0.72	U	0.72	0.24	mg/Kg	☼	02/18/21 16:33	02/19/21 14:42	1
Sodium	**294**		169	15.7	mg/Kg	☼	02/18/21 16:33	02/19/21 14:42	1
Thallium	7.2	U	7.2	0.36	mg/Kg	☼	02/18/21 16:33	02/19/21 14:42	1
Vanadium	**12.6**		0.60	0.13	mg/Kg	☼	02/18/21 16:33	02/19/21 14:42	1
Zinc	**14.6**		2.4	0.77	mg/Kg	☼	02/18/21 16:33	02/19/21 14:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022	U	0.022	0.0091	mg/Kg	☼	02/24/21 13:29	02/24/21 14:55	1

Client Sample ID: SB-12C (55-56)
Date Collected: 02/11/21 15:10
Date Received: 02/17/21 10:30

Lab Sample ID: 480-181249-2
Matrix: Solid
Percent Solids: 62.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	7.8	U	7.8	0.56	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
1,1,2,2-Tetrachloroethane	7.8	U *	7.8	1.3	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
1,1,2-Trichloroethane	7.8	U *	7.8	1.0	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	7.8	U	7.8	1.8	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
1,1-Dichloroethane	7.8	U	7.8	0.95	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
1,1-Dichloroethene	7.8	U	7.8	0.95	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
1,2,4-Trichlorobenzene	7.8	U *	7.8	0.47	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
1,2-Dibromo-3-Chloropropane	7.8	U *	7.8	3.9	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
1,2-Dichlorobenzene	7.8	U *	7.8	0.61	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
1,2-Dichloroethane	7.8	U	7.8	0.39	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
1,2-Dichloropropane	7.8	U	7.8	3.9	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
1,3-Dichlorobenzene	7.8	U *	7.8	0.40	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
1,4-Dichlorobenzene	7.8	U *	7.8	1.1	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
2-Butanone (MEK)	39	U	39	2.8	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
2-Hexanone	39	U *	39	3.9	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
4-Methyl-2-pentanone (MIBK)	39	U *	39	2.5	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
Acetone	**23**	**J**	39	6.5	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
Benzene	7.8	U	7.8	0.38	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
Bromodichloromethane	7.8	U	7.8	1.0	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
Bromoform	7.8	U *	7.8	3.9	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
Bromomethane	7.8	U	7.8	0.70	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
Carbon disulfide	7.8	U	7.8	3.9	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
Carbon tetrachloride	7.8	U	7.8	0.75	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
Chlorobenzene	7.8	U *	7.8	1.0	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
Dibromochloromethane	7.8	U *	7.8	0.99	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
Chloroethane	7.8	U	7.8	1.8	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
Chloroform	7.8	U	7.8	0.48	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
Chloromethane	7.8	U	7.8	0.47	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
cis-1,2-Dichloroethene	7.8	U	7.8	0.99	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
cis-1,3-Dichloropropene	7.8	U	7.8	1.1	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
Cyclohexane	7.8	U	7.8	1.1	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
Dichlorodifluoromethane	7.8	U	7.8	0.64	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
Ethylbenzene	7.8	U *	7.8	0.54	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
1,2-Dibromoethane	7.8	U *	7.8	1.0	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
Isopropylbenzene	7.8	U *	7.8	1.2	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
Methyl acetate	39	U	39	4.7	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
Methyl tert-butyl ether	7.8	U	7.8	0.76	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
Methylcyclohexane	7.8	U	7.8	1.2	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
Methylene Chloride	7.8	U	7.8	3.6	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
Styrene	7.8	U *	7.8	0.39	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
Tetrachloroethene	7.8	U *	7.8	1.0	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
Toluene	7.8	U *	7.8	0.59	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
trans-1,2-Dichloroethene	7.8	U	7.8	0.80	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
trans-1,3-Dichloropropene	7.8	U *	7.8	3.4	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
Trichloroethene	7.8	U	7.8	1.7	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
Trichlorofluoromethane	7.8	U	7.8	0.73	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
Vinyl chloride	7.8	U	7.8	0.95	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1
Xylenes, Total	16	U	16	1.3	ug/Kg	☼	02/17/21 10:30	02/17/21 15:12	1

Client Sample ID: SB-12C (55-56)
Date Collected: 02/11/21 15:10
Date Received: 02/17/21 10:30

Lab Sample ID: 480-181249-2
Matrix: Solid
Percent Solids: 62.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	140	*	71 - 125	02/17/21 10:30	02/17/21 15:12	1
1,2-Dichloroethane-d4 (Surr)	91		64 - 126	02/17/21 10:30	02/17/21 15:12	1
4-Bromofluorobenzene (Surr)	64	*	72 - 126	02/17/21 10:30	02/17/21 15:12	1
Dibromofluoromethane (Surr)	109		60 - 140	02/17/21 10:30	02/17/21 15:12	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.36	U	0.36	0.071	mg/Kg	☼	02/19/21 08:56	02/21/21 19:10	1
PCB-1221	0.36	U	0.36	0.071	mg/Kg	☼	02/19/21 08:56	02/21/21 19:10	1
PCB-1232	0.36	U	0.36	0.071	mg/Kg	☼	02/19/21 08:56	02/21/21 19:10	1
PCB-1242	0.36	U	0.36	0.071	mg/Kg	☼	02/19/21 08:56	02/21/21 19:10	1
PCB-1248	0.36	U	0.36	0.071	mg/Kg	☼	02/19/21 08:56	02/21/21 19:10	1
PCB-1254	0.36	U	0.36	0.17	mg/Kg	☼	02/19/21 08:56	02/21/21 19:10	1
PCB-1260	0.36	U	0.36	0.17	mg/Kg	☼	02/19/21 08:56	02/21/21 19:10	1
PCB-1262	0.36	U	0.36	0.17	mg/Kg	☼	02/19/21 08:56	02/21/21 19:10	1
PCB-1268	0.36	U	0.36	0.17	mg/Kg	☼	02/19/21 08:56	02/21/21 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	109		60 - 154	02/19/21 08:56	02/21/21 19:10	1
Tetrachloro-m-xylene	106		60 - 154	02/19/21 08:56	02/21/21 19:10	1
DCB Decachlorobiphenyl	179	*	65 - 174	02/19/21 08:56	02/21/21 19:10	1
DCB Decachlorobiphenyl	102		65 - 174	02/19/21 08:56	02/21/21 19:10	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.29**	**J B**	0.76	0.29	ug/Kg	☼	02/25/21 15:08	02/26/21 14:00	1
Perfluoropentanoic acid (PFPeA)	0.30	U	0.30	0.027	ug/Kg	☼	02/25/21 15:08	02/26/21 14:00	1
Perfluorohexanoic acid (PFHxA)	0.30	U	0.30	0.036	ug/Kg	☼	02/25/21 15:08	02/26/21 14:00	1
Perfluoroheptanoic acid (PFHpA)	0.30	U	0.30	0.035	ug/Kg	☼	02/25/21 15:08	02/26/21 14:00	1
Perfluorooctanoic acid (PFOA)	0.30	U	0.30	0.021	ug/Kg	☼	02/25/21 15:08	02/26/21 14:00	1
Perfluorononanoic acid (PFNA)	0.30	U	0.30	0.030	ug/Kg	☼	02/25/21 15:08	02/26/21 14:00	1
Perfluorodecanoic acid (PFDA)	0.30	U	0.30	0.032	ug/Kg	☼	02/25/21 15:08	02/26/21 14:00	1
Perfluoroundecanoic acid (PFUnA)	0.30	U	0.30	0.036	ug/Kg	☼	02/25/21 15:08	02/26/21 14:00	1
Perfluorododecanoic acid (PFDoA)	0.30	U	0.30	0.023	ug/Kg	☼	02/25/21 15:08	02/26/21 14:00	1
Perfluorotridecanoic acid (PFTriA)	0.30	U	0.30	0.020	ug/Kg	☼	02/25/21 15:08	02/26/21 14:00	1
Perfluorotetradecanoic acid (PFTeA)	0.30	U	0.30	0.029	ug/Kg	☼	02/25/21 15:08	02/26/21 14:00	1
Perfluorobutanesulfonic acid (PFBS)	0.30	U	0.30	0.013	ug/Kg	☼	02/25/21 15:08	02/26/21 14:00	1
Perfluorohexanesulfonic acid (PFHxS)	0.30	U	0.30	0.023	ug/Kg	☼	02/25/21 15:08	02/26/21 14:00	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.30	U	0.30	0.023	ug/Kg	☼	02/25/21 15:08	02/26/21 14:00	1
Perfluorooctanesulfonic acid (PFOS)	0.30	U	0.30	0.10	ug/Kg	☼	02/25/21 15:08	02/26/21 14:00	1
Perfluorodecanesulfonic acid (PFDS)	0.30	U	0.30	0.029	ug/Kg	☼	02/25/21 15:08	02/26/21 14:00	1
Perfluorooctanesulfonamide (PFOSA)	0.30	U	0.30	0.013	ug/Kg	☼	02/25/21 15:08	02/26/21 14:00	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.02	U	3.02	0.051	ug/Kg	☼	02/25/21 15:08	02/26/21 14:00	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	3.02	U	3.02	0.045	ug/Kg	☼	02/25/21 15:08	02/26/21 14:00	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	3.02	U	3.02	0.033	ug/Kg	☼	02/25/21 15:08	02/26/21 14:00	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	3.02	U	3.02	0.044	ug/Kg	☼	02/25/21 15:08	02/26/21 14:00	1

Client Sample ID: SB-12C (55-56)
Date Collected: 02/11/21 15:10
Date Received: 02/17/21 10:30

Lab Sample ID: 480-181249-2
Matrix: Solid
Percent Solids: 62.9

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*67*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:00*	*1*
13C4 PFHpA	*82*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:00*	*1*
13C4 PFOA	*77*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:00*	*1*
13C4 PFOS	*70*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:00*	*1*
13C5 PFNA	*77*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:00*	*1*
13C4 PFBA	*79*		*25 - 150*	*02/25/21 15:08*	*02/26/21 14:00*	*1*
13C2 PFHxA	*85*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:00*	*1*
13C2 PFDA	*78*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:00*	*1*
13C2 PFUnA	*77*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:00*	*1*
13C2 PFDoA	*73*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:00*	*1*
13C8 FOSA	*70*		*25 - 150*	*02/25/21 15:08*	*02/26/21 14:00*	*1*
13C5 PFPeA	*79*		*25 - 150*	*02/25/21 15:08*	*02/26/21 14:00*	*1*
13C2 PFTeDA	*62*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:00*	*1*
d3-NMeFOSAA	*72*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:00*	*1*
d5-NEtFOSAA	*74*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:00*	*1*
M2-6:2 FTS	*63*		*25 - 150*	*02/25/21 15:08*	*02/26/21 14:00*	*1*
M2-8:2 FTS	*67*		*25 - 150*	*02/25/21 15:08*	*02/26/21 14:00*	*1*
13C3 PFBS	*69*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:00*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**27800**		16.2	7.1	mg/Kg	☼	02/18/21 16:33	02/19/21 14:46	1
Antimony	24.3	U	24.3	0.65	mg/Kg	☼	02/18/21 16:33	02/19/21 14:46	1
Arsenic	**5.4**		3.2	0.65	mg/Kg	☼	02/18/21 16:33	02/19/21 14:46	1
Barium	**222**		0.81	0.18	mg/Kg	☼	02/18/21 16:33	02/19/21 14:46	1
Beryllium	**1.2**		0.32	0.045	mg/Kg	☼	02/18/21 16:33	02/19/21 14:46	1
Cadmium	**0.19**	**J**	0.32	0.049	mg/Kg	☼	02/18/21 16:33	02/19/21 14:46	1
Calcium	**47900**		80.9	5.3	mg/Kg	☼	02/18/21 16:33	02/19/21 14:46	1
Chromium	**41.9**		0.81	0.32	mg/Kg	☼	02/18/21 16:33	02/19/21 14:46	1
Cobalt	**18.6**		0.81	0.081	mg/Kg	☼	02/18/21 16:33	02/19/21 14:46	1
Copper	**29.1**		1.6	0.34	mg/Kg	☼	02/18/21 16:33	02/19/21 14:46	1
Iron	**32900**		16.2	5.7	mg/Kg	☼	02/18/21 16:33	02/19/21 14:46	1
Lead	**15.8**		1.6	0.39	mg/Kg	☼	02/18/21 16:33	02/19/21 14:46	1
Magnesium	**14400**		32.4	1.5	mg/Kg	☼	02/18/21 16:33	02/19/21 14:46	1
Manganese	**702**	**B**	0.32	0.052	mg/Kg	☼	02/18/21 16:33	02/19/21 14:46	1
Nickel	**48.3**		8.1	0.37	mg/Kg	☼	02/18/21 16:33	02/19/21 14:46	1
Potassium	**7030**		48.5	32.4	mg/Kg	☼	02/18/21 16:33	02/19/21 14:46	1
Selenium	6.5	U	6.5	0.65	mg/Kg	☼	02/18/21 16:33	02/19/21 14:46	1
Silver	0.97	U	0.97	0.32	mg/Kg	☼	02/18/21 16:33	02/19/21 14:46	1
Sodium	**916**		226	21.0	mg/Kg	☼	02/18/21 16:33	02/19/21 14:46	1
Thallium	9.7	U	9.7	0.49	mg/Kg	☼	02/18/21 16:33	02/19/21 14:46	1
Vanadium	**48.7**		0.81	0.18	mg/Kg	☼	02/18/21 16:33	02/19/21 14:46	1
Zinc	**77.0**		3.2	1.0	mg/Kg	☼	02/18/21 16:33	02/19/21 14:46	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.046	U	0.046	0.019	mg/Kg	☼	02/24/21 13:29	02/24/21 14:59	1

Client Sample ID: SB-12A (4-6)
Date Collected: 02/12/21 13:45
Date Received: 02/17/21 10:30

Lab Sample ID: 480-181249-3
Matrix: Solid
Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	6.1	U	6.1	0.45	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
1,1,2,2-Tetrachloroethane	6.1	U	6.1	1.0	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
1,1,2-Trichloroethane	6.1	U	6.1	0.80	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	6.1	U	6.1	1.4	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
1,1-Dichloroethane	6.1	U	6.1	0.75	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
1,1-Dichloroethene	6.1	U	6.1	0.75	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
1,2,4-Trichlorobenzene	6.1	U	6.1	0.37	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
1,2-Dibromo-3-Chloropropane	6.1	U	6.1	3.1	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
1,2-Dichlorobenzene	6.1	U	6.1	0.48	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
1,2-Dichloroethane	6.1	U	6.1	0.31	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
1,2-Dichloropropane	6.1	U	6.1	3.1	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
1,3-Dichlorobenzene	6.1	U	6.1	0.32	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
1,4-Dichlorobenzene	6.1	U	6.1	0.86	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
2-Butanone (MEK)	**11**	**J**	31	2.2	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
2-Hexanone	31	U	31	3.1	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
4-Methyl-2-pentanone (MIBK)	31	U	31	2.0	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
Acetone	**42**		31	5.2	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
Benzene	6.1	U	6.1	0.30	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
Bromodichloromethane	6.1	U	6.1	0.82	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
Bromoform	6.1	U	6.1	3.1	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
Bromomethane	6.1	U	6.1	0.55	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
Carbon disulfide	6.1	U	6.1	3.1	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
Carbon tetrachloride	6.1	U	6.1	0.60	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
Chlorobenzene	**2.2**	**J**	6.1	0.81	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
Dibromochloromethane	6.1	U	6.1	0.79	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
Chloroethane	6.1	U	6.1	1.4	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
Chloroform	6.1	U	6.1	0.38	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
Chloromethane	6.1	U	6.1	0.37	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
cis-1,2-Dichloroethene	6.1	U	6.1	0.79	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
cis-1,3-Dichloropropene	6.1	U	6.1	0.89	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
Cyclohexane	6.1	U	6.1	0.86	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
Dichlorodifluoromethane	6.1	U	6.1	0.51	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
Ethylbenzene	6.1	U	6.1	0.42	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
1,2-Dibromoethane	6.1	U	6.1	0.79	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
Isopropylbenzene	6.1	U	6.1	0.93	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
Methyl acetate	31	U	31	3.7	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
Methyl tert-butyl ether	6.1	U	6.1	0.60	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
Methylcyclohexane	6.1	U	6.1	0.93	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
Methylene Chloride	**9.7**	**B**	6.1	2.8	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
Styrene	6.1	U	6.1	0.31	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
Tetrachloroethene	6.1	U	6.1	0.82	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
Toluene	**1.2**	**J**	6.1	0.46	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
trans-1,2-Dichloroethene	6.1	U	6.1	0.63	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
trans-1,3-Dichloropropene	6.1	U	6.1	2.7	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
Trichloroethene	6.1	U	6.1	1.4	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
Trichlorofluoromethane	6.1	U	6.1	0.58	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
Vinyl chloride	6.1	U	6.1	0.75	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1
Xylenes, Total	12	U	12	1.0	ug/Kg	☼	02/18/21 09:16	02/18/21 11:39	1

Client Sample ID: SB-12A (4-6)
Date Collected: 02/12/21 13:45
Date Received: 02/17/21 10:30

Lab Sample ID: 480-181249-3
Matrix: Solid
Percent Solids: 80.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*98*		*71 - 125*	*02/18/21 09:16*	*02/18/21 11:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*64 - 126*	*02/18/21 09:16*	*02/18/21 11:39*	*1*
4-Bromofluorobenzene (Surr)	*106*		*72 - 126*	*02/18/21 09:16*	*02/18/21 11:39*	*1*
Dibromofluoromethane (Surr)	*111*		*60 - 140*	*02/18/21 09:16*	*02/18/21 11:39*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.30	U	0.30	0.059	mg/Kg	☼	02/19/21 08:56	02/21/21 18:45	1
PCB-1221	0.30	U	0.30	0.059	mg/Kg	☼	02/19/21 08:56	02/21/21 18:45	1
PCB-1232	0.30	U	0.30	0.059	mg/Kg	☼	02/19/21 08:56	02/21/21 18:45	1
PCB-1242	0.30	U	0.30	0.059	mg/Kg	☼	02/19/21 08:56	02/21/21 18:45	1
PCB-1248	0.30	U	0.30	0.059	mg/Kg	☼	02/19/21 08:56	02/21/21 18:45	1
PCB-1254	0.30	U	0.30	0.14	mg/Kg	☼	02/19/21 08:56	02/21/21 18:45	1
PCB-1260	0.30	U	0.30	0.14	mg/Kg	☼	02/19/21 08:56	02/21/21 18:45	1
PCB-1262	0.30	U	0.30	0.14	mg/Kg	☼	02/19/21 08:56	02/21/21 18:45	1
PCB-1268	0.30	U	0.30	0.14	mg/Kg	☼	02/19/21 08:56	02/21/21 18:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*125*		*60 - 154*	*02/19/21 08:56*	*02/21/21 18:45*	*1*
Tetrachloro-m-xylene	*115*		*60 - 154*	*02/19/21 08:56*	*02/21/21 18:45*	*1*
DCB Decachlorobiphenyl	*197*	*	*65 - 174*	*02/19/21 08:56*	*02/21/21 18:45*	*1*
DCB Decachlorobiphenyl	*111*		*65 - 174*	*02/19/21 08:56*	*02/21/21 18:45*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.59	U	0.59	0.22	ug/Kg	☼	02/25/21 15:08	02/26/21 14:09	1
Perfluoropentanoic acid (PFPeA)	0.24	U	0.24	0.021	ug/Kg	☼	02/25/21 15:08	02/26/21 14:09	1
Perfluorohexanoic acid (PFHxA)	0.24	U	0.24	0.028	ug/Kg	☼	02/25/21 15:08	02/26/21 14:09	1
Perfluoroheptanoic acid (PFHpA)	0.24	U	0.24	0.027	ug/Kg	☼	02/25/21 15:08	02/26/21 14:09	1
Perfluorooctanoic acid (PFOA)	**0.046**	**J**	0.24	0.017	ug/Kg	☼	02/25/21 15:08	02/26/21 14:09	1
Perfluorononanoic acid (PFNA)	0.24	U	0.24	0.024	ug/Kg	☼	02/25/21 15:08	02/26/21 14:09	1
Perfluorodecanoic acid (PFDA)	0.24	U	0.24	0.025	ug/Kg	☼	02/25/21 15:08	02/26/21 14:09	1
Perfluoroundecanoic acid (PFUnA)	0.24	U	0.24	0.028	ug/Kg	☼	02/25/21 15:08	02/26/21 14:09	1
Perfluorododecanoic acid (PFDoA)	0.24	U	0.24	0.018	ug/Kg	☼	02/25/21 15:08	02/26/21 14:09	1
Perfluorotridecanoic acid (PFTriA)	0.24	U	0.24	0.015	ug/Kg	☼	02/25/21 15:08	02/26/21 14:09	1
Perfluorotetradecanoic acid (PFTeA)	0.24	U	0.24	0.022	ug/Kg	☼	02/25/21 15:08	02/26/21 14:09	1
Perfluorobutanesulfonic acid (PFBS)	0.24	U	0.24	0.010	ug/Kg	☼	02/25/21 15:08	02/26/21 14:09	1
Perfluorohexanesulfonic acid (PFHxS)	0.24	U	0.24	0.018	ug/Kg	☼	02/25/21 15:08	02/26/21 14:09	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.24	U	0.24	0.018	ug/Kg	☼	02/25/21 15:08	02/26/21 14:09	1
Perfluorooctanesulfonic acid (PFOS)	**0.28**		0.24	0.079	ug/Kg	☼	02/25/21 15:08	02/26/21 14:09	1
Perfluorodecanesulfonic acid (PFDS)	0.24	U	0.24	0.022	ug/Kg	☼	02/25/21 15:08	02/26/21 14:09	1
Perfluorooctanesulfonamide (PFOSA)	**0.013**	**J**	0.24	0.010	ug/Kg	☼	02/25/21 15:08	02/26/21 14:09	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.37	U	2.37	0.040	ug/Kg	☼	02/25/21 15:08	02/26/21 14:09	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	**0.18**	**J**	2.37	0.035	ug/Kg	☼	02/25/21 15:08	02/26/21 14:09	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	2.37	U	2.37	0.026	ug/Kg	☼	02/25/21 15:08	02/26/21 14:09	1

Client Sample ID: SB-12A (4-6)
Date Collected: 02/12/21 13:45
Date Received: 02/17/21 10:30

Lab Sample ID: 480-181249-3
Matrix: Solid
Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	2.37	U	2.37	0.034	ug/Kg	☼	02/25/21 15:08	02/26/21 14:09	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*90*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:09*	*1*
13C4 PFHpA	*102*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:09*	*1*
13C4 PFOA	*98*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:09*	*1*
13C4 PFOS	*91*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:09*	*1*
13C5 PFNA	*98*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:09*	*1*
13C4 PFBA	*89*		*25 - 150*	*02/25/21 15:08*	*02/26/21 14:09*	*1*
13C2 PFHxA	*107*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:09*	*1*
13C2 PFDA	*105*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:09*	*1*
13C2 PFUnA	*102*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:09*	*1*
13C2 PFDoA	*88*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:09*	*1*
13C8 FOSA	*86*		*25 - 150*	*02/25/21 15:08*	*02/26/21 14:09*	*1*
13C5 PFPeA	*93*		*25 - 150*	*02/25/21 15:08*	*02/26/21 14:09*	*1*
13C2 PFTeDA	*77*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:09*	*1*
d3-NMeFOSAA	*78*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:09*	*1*
d5-NEtFOSAA	*99*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:09*	*1*
M2-6:2 FTS	*108*		*25 - 150*	*02/25/21 15:08*	*02/26/21 14:09*	*1*
M2-8:2 FTS	*138*		*25 - 150*	*02/25/21 15:08*	*02/26/21 14:09*	*1*
13C3 PFBS	*89*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:09*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4110**		12.9	5.7	mg/Kg	☼	02/18/21 16:33	02/19/21 14:50	1
Antimony	19.3	U	19.3	0.51	mg/Kg	☼	02/18/21 16:33	02/19/21 14:50	1
Arsenic	**1.1**	**J**	2.6	0.51	mg/Kg	☼	02/18/21 16:33	02/19/21 14:50	1
Barium	**19.1**		0.64	0.14	mg/Kg	☼	02/18/21 16:33	02/19/21 14:50	1
Beryllium	**0.21**	**J**	0.26	0.036	mg/Kg	☼	02/18/21 16:33	02/19/21 14:50	1
Cadmium	0.26	U	0.26	0.039	mg/Kg	☼	02/18/21 16:33	02/19/21 14:50	1
Calcium	**3000**		64.3	4.2	mg/Kg	☼	02/18/21 16:33	02/19/21 14:50	1
Chromium	**4.6**		0.64	0.26	mg/Kg	☼	02/18/21 16:33	02/19/21 14:50	1
Cobalt	**2.2**		0.64	0.064	mg/Kg	☼	02/18/21 16:33	02/19/21 14:50	1
Copper	**1.3**		1.3	0.27	mg/Kg	☼	02/18/21 16:33	02/19/21 14:50	1
Iron	**6000**		12.9	4.5	mg/Kg	☼	02/18/21 16:33	02/19/21 14:50	1
Lead	**1.5**		1.3	0.31	mg/Kg	☼	02/18/21 16:33	02/19/21 14:50	1
Magnesium	**1230**		25.7	1.2	mg/Kg	☼	02/18/21 16:33	02/19/21 14:50	1
Manganese	**60.1**	**B**	0.26	0.041	mg/Kg	☼	02/18/21 16:33	02/19/21 14:50	1
Nickel	**3.4**	**J**	6.4	0.30	mg/Kg	☼	02/18/21 16:33	02/19/21 14:50	1
Potassium	**408**		38.6	25.7	mg/Kg	☼	02/18/21 16:33	02/19/21 14:50	1
Selenium	5.1	U	5.1	0.51	mg/Kg	☼	02/18/21 16:33	02/19/21 14:50	1
Silver	0.77	U	0.77	0.26	mg/Kg	☼	02/18/21 16:33	02/19/21 14:50	1
Sodium	**249**		180	16.7	mg/Kg	☼	02/18/21 16:33	02/19/21 14:50	1
Thallium	7.7	U	7.7	0.39	mg/Kg	☼	02/18/21 16:33	02/19/21 14:50	1
Vanadium	**11.1**		0.64	0.14	mg/Kg	☼	02/18/21 16:33	02/19/21 14:50	1
Zinc	**14.5**		2.6	0.82	mg/Kg	☼	02/18/21 16:33	02/19/21 14:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023	U	0.023	0.0094	mg/Kg	☼	02/24/21 13:29	02/24/21 15:00	1

Client Sample ID: SB-12A (13-15)
Date Collected: 02/12/21 14:16
Date Received: 02/17/21 10:30

Lab Sample ID: 480-181249-4
Matrix: Solid
Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	6.0	U	6.0	0.44	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
1,1,2,2-Tetrachloroethane	6.0	U	6.0	0.98	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
1,1,2-Trichloroethane	6.0	U	6.0	0.79	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	6.0	U	6.0	1.4	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
1,1-Dichloroethane	6.0	U	6.0	0.74	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
1,1-Dichloroethene	6.0	U	6.0	0.74	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
1,2,4-Trichlorobenzene	6.0	U	6.0	0.37	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
1,2-Dibromo-3-Chloropropane	6.0	U	6.0	3.0	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
1,2-Dichlorobenzene	6.0	U	6.0	0.47	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
1,2-Dichloroethane	6.0	U	6.0	0.30	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
1,2-Dichloropropane	6.0	U	6.0	3.0	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
1,3-Dichlorobenzene	6.0	U	6.0	0.31	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
1,4-Dichlorobenzene	6.0	U	6.0	0.85	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
2-Butanone (MEK)	30	U	30	2.2	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
2-Hexanone	30	U	30	3.0	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
4-Methyl-2-pentanone (MIBK)	30	U	30	2.0	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
Acetone	**24**	**J**	30	5.1	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
Benzene	6.0	U	6.0	0.30	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
Bromodichloromethane	6.0	U	6.0	0.81	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
Bromoform	6.0	U	6.0	3.0	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
Bromomethane	6.0	U	6.0	0.54	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
Carbon disulfide	6.0	U	6.0	3.0	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
Carbon tetrachloride	6.0	U	6.0	0.58	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
Chlorobenzene	6.0	U	6.0	0.80	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
Dibromochloromethane	6.0	U	6.0	0.77	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
Chloroethane	6.0	U	6.0	1.4	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
Chloroform	6.0	U	6.0	0.37	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
Chloromethane	6.0	U	6.0	0.36	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
cis-1,2-Dichloroethene	6.0	U	6.0	0.77	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
cis-1,3-Dichloropropene	6.0	U	6.0	0.87	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
Cyclohexane	6.0	U	6.0	0.85	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
Dichlorodifluoromethane	6.0	U	6.0	0.50	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
Ethylbenzene	6.0	U	6.0	0.42	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
1,2-Dibromoethane	6.0	U	6.0	0.78	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
Isopropylbenzene	6.0	U	6.0	0.91	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
Methyl acetate	30	U	30	3.6	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
Methyl tert-butyl ether	6.0	U	6.0	0.59	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
Methylcyclohexane	6.0	U	6.0	0.92	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
Methylene Chloride	6.0	U	6.0	2.8	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
Styrene	6.0	U	6.0	0.30	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
Tetrachloroethene	6.0	U	6.0	0.81	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
Toluene	6.0	U	6.0	0.46	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
trans-1,2-Dichloroethene	6.0	U	6.0	0.62	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
trans-1,3-Dichloropropene	6.0	U	6.0	2.7	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
Trichloroethene	6.0	U	6.0	1.3	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
Trichlorofluoromethane	6.0	U	6.0	0.57	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
Vinyl chloride	6.0	U	6.0	0.74	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1
Xylenes, Total	12	U	12	1.0	ug/Kg	☼	02/17/21 10:30	02/17/21 15:38	1

Client Sample ID: SB-12A (13-15)
Date Collected: 02/12/21 14:16
Date Received: 02/17/21 10:30

Lab Sample ID: 480-181249-4
Matrix: Solid
Percent Solids: 82.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		71 - 125	02/17/21 10:30	02/17/21 15:38	1
1,2-Dichloroethane-d4 (Surr)	97		64 - 126	02/17/21 10:30	02/17/21 15:38	1
4-Bromofluorobenzene (Surr)	108		72 - 126	02/17/21 10:30	02/17/21 15:38	1
Dibromofluoromethane (Surr)	105		60 - 140	02/17/21 10:30	02/17/21 15:38	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.26	U	0.26	0.050	mg/Kg	☼	02/19/21 08:56	02/21/21 19:22	1
PCB-1221	0.26	U	0.26	0.050	mg/Kg	☼	02/19/21 08:56	02/21/21 19:22	1
PCB-1232	0.26	U	0.26	0.050	mg/Kg	☼	02/19/21 08:56	02/21/21 19:22	1
PCB-1242	0.26	U	0.26	0.050	mg/Kg	☼	02/19/21 08:56	02/21/21 19:22	1
PCB-1248	0.26	U	0.26	0.050	mg/Kg	☼	02/19/21 08:56	02/21/21 19:22	1
PCB-1254	0.26	U	0.26	0.12	mg/Kg	☼	02/19/21 08:56	02/21/21 19:22	1
PCB-1260	0.26	U	0.26	0.12	mg/Kg	☼	02/19/21 08:56	02/21/21 19:22	1
PCB-1262	0.26	U	0.26	0.12	mg/Kg	☼	02/19/21 08:56	02/21/21 19:22	1
PCB-1268	0.26	U	0.26	0.12	mg/Kg	☼	02/19/21 08:56	02/21/21 19:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	122		60 - 154	02/19/21 08:56	02/21/21 19:22	1
Tetrachloro-m-xylene	110		60 - 154	02/19/21 08:56	02/21/21 19:22	1
DCB Decachlorobiphenyl	197	*	65 - 174	02/19/21 08:56	02/21/21 19:22	1
DCB Decachlorobiphenyl	110		65 - 174	02/19/21 08:56	02/21/21 19:22	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.53**	**J B**	0.59	0.23	ug/Kg	☼	02/25/21 15:08	02/26/21 14:34	1
Perfluoropentanoic acid (PFPeA)	**0.022**	**J**	0.24	0.021	ug/Kg	☼	02/25/21 15:08	02/26/21 14:34	1
Perfluorohexanoic acid (PFHxA)	0.24	U	0.24	0.029	ug/Kg	☼	02/25/21 15:08	02/26/21 14:34	1
Perfluoroheptanoic acid (PFHpA)	0.24	U	0.24	0.027	ug/Kg	☼	02/25/21 15:08	02/26/21 14:34	1
Perfluorooctanoic acid (PFOA)	**0.033**	**J**	0.24	0.017	ug/Kg	☼	02/25/21 15:08	02/26/21 14:34	1
Perfluorononanoic acid (PFNA)	0.24	U	0.24	0.024	ug/Kg	☼	02/25/21 15:08	02/26/21 14:34	1
Perfluorodecanoic acid (PFDA)	0.24	U	0.24	0.025	ug/Kg	☼	02/25/21 15:08	02/26/21 14:34	1
Perfluoroundecanoic acid (PFUnA)	0.24	U	0.24	0.029	ug/Kg	☼	02/25/21 15:08	02/26/21 14:34	1
Perfluorododecanoic acid (PFDoA)	0.24	U	0.24	0.018	ug/Kg	☼	02/25/21 15:08	02/26/21 14:34	1
Perfluorotridecanoic acid (PFTriA)	0.24	U	0.24	0.015	ug/Kg	☼	02/25/21 15:08	02/26/21 14:34	1
Perfluorotetradecanoic acid (PFTeA)	0.24	U	0.24	0.023	ug/Kg	☼	02/25/21 15:08	02/26/21 14:34	1
Perfluorobutanesulfonic acid (PFBS)	**0.013**	**J B**	0.24	0.010	ug/Kg	☼	02/25/21 15:08	02/26/21 14:34	1
Perfluorohexanesulfonic acid (PFHxS)	0.24	U	0.24	0.018	ug/Kg	☼	02/25/21 15:08	02/26/21 14:34	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.24	U	0.24	0.018	ug/Kg	☼	02/25/21 15:08	02/26/21 14:34	1
Perfluorooctanesulfonic acid (PFOS)	0.24	U	0.24	0.080	ug/Kg	☼	02/25/21 15:08	02/26/21 14:34	1
Perfluorodecanesulfonic acid (PFDS)	0.24	U	0.24	0.023	ug/Kg	☼	02/25/21 15:08	02/26/21 14:34	1
Perfluorooctanesulfonamide (PFOSA)	0.24	U	0.24	0.010	ug/Kg	☼	02/25/21 15:08	02/26/21 14:34	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.38	U	2.38	0.040	ug/Kg	☼	02/25/21 15:08	02/26/21 14:34	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.38	U	2.38	0.036	ug/Kg	☼	02/25/21 15:08	02/26/21 14:34	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	2.38	U	2.38	0.026	ug/Kg	☼	02/25/21 15:08	02/26/21 14:34	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	2.38	U	2.38	0.034	ug/Kg	☼	02/25/21 15:08	02/26/21 14:34	1

Client Sample ID: SB-12A (13-15)
Date Collected: 02/12/21 14:16
Date Received: 02/17/21 10:30

Lab Sample ID: 480-181249-4
Matrix: Solid
Percent Solids: 82.6

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*104*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:34*	*1*
13C4 PFHpA	*99*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:34*	*1*
13C4 PFOA	*99*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:34*	*1*
13C4 PFOS	*105*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:34*	*1*
13C5 PFNA	*95*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:34*	*1*
13C4 PFBA	*39*		*25 - 150*	*02/25/21 15:08*	*02/26/21 14:34*	*1*
13C2 PFHxA	*103*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:34*	*1*
13C2 PFDA	*90*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:34*	*1*
13C2 PFUnA	*88*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:34*	*1*
13C2 PFDoA	*86*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:34*	*1*
13C8 FOSA	*93*		*25 - 150*	*02/25/21 15:08*	*02/26/21 14:34*	*1*
13C5 PFPeA	*94*		*25 - 150*	*02/25/21 15:08*	*02/26/21 14:34*	*1*
13C2 PFTeDA	*76*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:34*	*1*
d3-NMeFOSAA	*92*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:34*	*1*
d5-NEtFOSAA	*93*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:34*	*1*
M2-6:2 FTS	*104*		*25 - 150*	*02/25/21 15:08*	*02/26/21 14:34*	*1*
M2-8:2 FTS	*105*		*25 - 150*	*02/25/21 15:08*	*02/26/21 14:34*	*1*
13C3 PFBS	*96*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:34*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8340**		11.6	5.1	mg/Kg	☼	02/18/21 16:33	02/19/21 15:20	1
Antimony	17.3	U	17.3	0.46	mg/Kg	☼	02/18/21 16:33	02/19/21 15:20	1
Arsenic	**1.2**	**J**	2.3	0.46	mg/Kg	☼	02/18/21 16:33	02/19/21 15:20	1
Barium	**50.8**		0.58	0.13	mg/Kg	☼	02/18/21 16:33	02/19/21 15:20	1
Beryllium	**0.43**		0.23	0.032	mg/Kg	☼	02/18/21 16:33	02/19/21 15:20	1
Cadmium	0.23	U	0.23	0.035	mg/Kg	☼	02/18/21 16:33	02/19/21 15:20	1
Calcium	**2860**		57.8	3.8	mg/Kg	☼	02/18/21 16:33	02/19/21 15:20	1
Chromium	**11.1**		0.58	0.23	mg/Kg	☼	02/18/21 16:33	02/19/21 15:20	1
Cobalt	**4.8**		0.58	0.058	mg/Kg	☼	02/18/21 16:33	02/19/21 15:20	1
Copper	**6.0**		1.2	0.24	mg/Kg	☼	02/18/21 16:33	02/19/21 15:20	1
Iron	**12000**		11.6	4.0	mg/Kg	☼	02/18/21 16:33	02/19/21 15:20	1
Lead	**3.1**		1.2	0.28	mg/Kg	☼	02/18/21 16:33	02/19/21 15:20	1
Magnesium	**2610**		23.1	1.1	mg/Kg	☼	02/18/21 16:33	02/19/21 15:20	1
Manganese	**87.3**	**B**	0.23	0.037	mg/Kg	☼	02/18/21 16:33	02/19/21 15:20	1
Nickel	**9.9**		5.8	0.27	mg/Kg	☼	02/18/21 16:33	02/19/21 15:20	1
Potassium	**1550**		34.7	23.1	mg/Kg	☼	02/18/21 16:33	02/19/21 15:20	1
Selenium	4.6	U	4.6	0.46	mg/Kg	☼	02/18/21 16:33	02/19/21 15:20	1
Silver	0.69	U	0.69	0.23	mg/Kg	☼	02/18/21 16:33	02/19/21 15:20	1
Sodium	**337**		162	15.0	mg/Kg	☼	02/18/21 16:33	02/19/21 15:20	1
Thallium	6.9	U	6.9	0.35	mg/Kg	☼	02/18/21 16:33	02/19/21 15:20	1
Vanadium	**22.0**		0.58	0.13	mg/Kg	☼	02/18/21 16:33	02/19/21 15:20	1
Zinc	**26.4**		2.3	0.74	mg/Kg	☼	02/18/21 16:33	02/19/21 15:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	U	0.016	0.0065	mg/Kg	☼	02/24/21 13:29	02/24/21 15:04	1

Client Sample ID: EB-20210210
Lab Sample ID: 480-181249-5

Date Collected: 02/10/21 11:00
Matrix: Water

Date Received: 02/17/21 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			02/17/21 12:54	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			02/17/21 12:54	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			02/17/21 12:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			02/17/21 12:54	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			02/17/21 12:54	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			02/17/21 12:54	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			02/17/21 12:54	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			02/17/21 12:54	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			02/17/21 12:54	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			02/17/21 12:54	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			02/17/21 12:54	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			02/17/21 12:54	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			02/17/21 12:54	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			02/17/21 12:54	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			02/17/21 12:54	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			02/17/21 12:54	1
Acetone	**3.2**	**J**	10	3.0	ug/L			02/17/21 12:54	1
Benzene	1.0	U	1.0	0.41	ug/L			02/17/21 12:54	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			02/17/21 12:54	1
Bromoform	1.0	U	1.0	0.26	ug/L			02/17/21 12:54	1
Bromomethane	1.0	U	1.0	0.69	ug/L			02/17/21 12:54	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			02/17/21 12:54	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			02/17/21 12:54	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			02/17/21 12:54	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			02/17/21 12:54	1
Chloroethane	1.0	U	1.0	0.32	ug/L			02/17/21 12:54	1
Chloroform	1.0	U	1.0	0.34	ug/L			02/17/21 12:54	1
Chloromethane	1.0	U	1.0	0.35	ug/L			02/17/21 12:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			02/17/21 12:54	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			02/17/21 12:54	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			02/17/21 12:54	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			02/17/21 12:54	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			02/17/21 12:54	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			02/17/21 12:54	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			02/17/21 12:54	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			02/17/21 12:54	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			02/17/21 12:54	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			02/17/21 12:54	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			02/17/21 12:54	1
Styrene	1.0	U	1.0	0.73	ug/L			02/17/21 12:54	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			02/17/21 12:54	1
Toluene	1.0	U	1.0	0.51	ug/L			02/17/21 12:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			02/17/21 12:54	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			02/17/21 12:54	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			02/17/21 12:54	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			02/17/21 12:54	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			02/17/21 12:54	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			02/17/21 12:54	1

Client Sample ID: EB-20210210
Date Collected: 02/10/21 11:00
Date Received: 02/17/21 10:30

Lab Sample ID: 480-181249-5
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*100*		*80 - 120*		*02/17/21 12:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*77 - 120*		*02/17/21 12:54*	*1*
4-Bromofluorobenzene (Surr)	*89*		*73 - 120*		*02/17/21 12:54*	*1*
Dibromofluoromethane (Surr)	*94*		*75 - 123*		*02/17/21 12:54*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.50	U	0.50	0.18	ug/L		02/18/21 08:55	02/18/21 21:12	1
PCB-1221	0.50	U	0.50	0.18	ug/L		02/18/21 08:55	02/18/21 21:12	1
PCB-1232	0.50	U	0.50	0.18	ug/L		02/18/21 08:55	02/18/21 21:12	1
PCB-1242	0.50	U	0.50	0.18	ug/L		02/18/21 08:55	02/18/21 21:12	1
PCB-1248	0.50	U	0.50	0.18	ug/L		02/18/21 08:55	02/18/21 21:12	1
PCB-1254	0.50	U	0.50	0.25	ug/L		02/18/21 08:55	02/18/21 21:12	1
PCB-1260	0.50	U	0.50	0.25	ug/L		02/18/21 08:55	02/18/21 21:12	1
PCB-1262	0.50	U	0.50	0.25	ug/L		02/18/21 08:55	02/18/21 21:12	1
PCB-1268	0.50	U	0.50	0.25	ug/L		02/18/21 08:55	02/18/21 21:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*71*		*39 - 121*	*02/18/21 08:55*	*02/18/21 21:12*	*1*
DCB Decachlorobiphenyl	*42*		*19 - 120*	*02/18/21 08:55*	*02/18/21 21:12*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.37	U	4.37	0.99	ng/L		02/18/21 15:01	02/19/21 16:55	1
Perfluoropentanoic acid (PFPeA)	1.75	U	1.75	0.94	ng/L		02/18/21 15:01	02/19/21 16:55	1
Perfluorohexanoic acid (PFHxA)	1.75	U	1.75	0.73	ng/L		02/18/21 15:01	02/19/21 16:55	1
Perfluoroheptanoic acid (PFHpA)	1.75	U	1.75	0.40	ng/L		02/18/21 15:01	02/19/21 16:55	1
Perfluorooctanoic acid (PFOA)	1.75	U	1.75	0.86	ng/L		02/18/21 15:01	02/19/21 16:55	1
Perfluorononanoic acid (PFNA)	1.75	U	1.75	0.51	ng/L		02/18/21 15:01	02/19/21 16:55	1
Perfluorodecanoic acid (PFDA)	1.75	U	1.75	0.40	ng/L		02/18/21 15:01	02/19/21 16:55	1
Perfluoroundecanoic acid (PFUnA)	1.75	U	1.75	0.64	ng/L		02/18/21 15:01	02/19/21 16:55	1
Perfluorododecanoic acid (PFDoA)	1.75	U	1.75	0.40	ng/L		02/18/21 15:01	02/19/21 16:55	1
Perfluorotridecanoic acid (PFTriA)	1.75	U	1.75	0.38	ng/L		02/18/21 15:01	02/19/21 16:55	1
Perfluorotetradecanoic acid (PFTeA)	1.75	U	1.75	0.52	ng/L		02/18/21 15:01	02/19/21 16:55	1
Perfluorobutanesulfonic acid (PFBS)	1.75	U	1.75	0.55	ng/L		02/18/21 15:01	02/19/21 16:55	1
Perfluorohexanesulfonic acid (PFHxS)	1.75	U	1.75	0.59	ng/L		02/18/21 15:01	02/19/21 16:55	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.75	U	1.75	0.34	ng/L		02/18/21 15:01	02/19/21 16:55	1
Perfluorodecanesulfonic acid (PFDS)	1.75	U	1.75	0.42	ng/L		02/18/21 15:01	02/19/21 16:55	1
Perfluorooctanesulfonic acid (PFOS)	1.75	U	1.75	0.76	ng/L		02/18/21 15:01	02/19/21 16:55	1
Perfluorooctanesulfonamide (FOSA)	1.75	U	1.75	0.50	ng/L		02/18/21 15:01	02/19/21 16:55	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.37	U	4.37	0.69	ng/L		02/18/21 15:01	02/19/21 16:55	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.37	U	4.37	0.81	ng/L		02/18/21 15:01	02/19/21 16:55	1
6:2 FTS	4.37	U	4.37	0.63	ng/L		02/18/21 15:01	02/19/21 16:55	1
8:2 FTS	1.75	U	1.75	0.58	ng/L		02/18/21 15:01	02/19/21 16:55	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	*69*		*25 - 150*	*02/18/21 15:01*	*02/19/21 16:55*	*1*
13C4 PFBA	*109*		*25 - 150*	*02/18/21 15:01*	*02/19/21 16:55*	*1*
13C5 PFPeA	*109*		*25 - 150*	*02/18/21 15:01*	*02/19/21 16:55*	*1*

Client Sample ID: EB-20210210
Lab Sample ID: 480-181249-5

Date Collected: 02/10/21 11:00
Matrix: Water

Date Received: 02/17/21 10:30

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

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFHxA	*110*		*50 - 150*	*02/18/21 15:01*	*02/19/21 16:55*	*1*
13C4 PFHpA	*109*		*50 - 150*	*02/18/21 15:01*	*02/19/21 16:55*	*1*
13C4 PFOA	*104*		*50 - 150*	*02/18/21 15:01*	*02/19/21 16:55*	*1*
13C5 PFNA	*105*		*50 - 150*	*02/18/21 15:01*	*02/19/21 16:55*	*1*
13C2 PFDA	*94*		*50 - 150*	*02/18/21 15:01*	*02/19/21 16:55*	*1*
13C2 PFUnA	*85*		*50 - 150*	*02/18/21 15:01*	*02/19/21 16:55*	*1*
13C2 PFDoA	*74*		*50 - 150*	*02/18/21 15:01*	*02/19/21 16:55*	*1*
13C2 PFTeDA	*69*		*50 - 150*	*02/18/21 15:01*	*02/19/21 16:55*	*1*
13C3 PFBS	*103*		*50 - 150*	*02/18/21 15:01*	*02/19/21 16:55*	*1*
18O2 PFHxS	*102*		*50 - 150*	*02/18/21 15:01*	*02/19/21 16:55*	*1*
13C4 PFOS	*102*		*50 - 150*	*02/18/21 15:01*	*02/19/21 16:55*	*1*
d3-NMeFOSAA	*81*		*50 - 150*	*02/18/21 15:01*	*02/19/21 16:55*	*1*
d5-NEtFOSAA	*75*		*50 - 150*	*02/18/21 15:01*	*02/19/21 16:55*	*1*
M2-6:2 FTS	*104*		*25 - 150*	*02/18/21 15:01*	*02/19/21 16:55*	*1*
M2-8:2 FTS	*104*		*25 - 150*	*02/18/21 15:01*	*02/19/21 16:55*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200	U	200	60.0	ug/L		02/19/21 09:05	02/19/21 15:38	1
Antimony	20.0	U	20.0	6.8	ug/L		02/19/21 09:05	02/19/21 15:38	1
Arsenic	15.0	U	15.0	5.6	ug/L		02/19/21 09:05	02/19/21 15:38	1
Barium	2.0	U	2.0	0.70	ug/L		02/19/21 09:05	02/19/21 15:38	1
Beryllium	2.0	U	2.0	0.30	ug/L		02/19/21 09:05	02/19/21 15:38	1
Cadmium	2.0	U	2.0	0.50	ug/L		02/19/21 09:05	02/19/21 15:38	1
Calcium	500	U	500	100	ug/L		02/19/21 09:05	02/19/21 15:38	1
Chromium	4.0	U	4.0	1.0	ug/L		02/19/21 09:05	02/19/21 15:38	1
Cobalt	4.0	U	4.0	0.63	ug/L		02/19/21 09:05	02/19/21 15:38	1
Copper	10.0	U	10.0	1.6	ug/L		02/19/21 09:05	02/19/21 15:38	1
Iron	50.0	U	50.0	19.3	ug/L		02/19/21 09:05	02/19/21 15:38	1
Lead	10.0	U	10.0	3.0	ug/L		02/19/21 09:05	02/19/21 15:38	1
Magnesium	200	U	200	43.4	ug/L		02/19/21 09:05	02/19/21 15:38	1
Manganese	3.0	U	3.0	0.40	ug/L		02/19/21 09:05	02/19/21 15:38	1
Nickel	10.0	U	10.0	1.3	ug/L		02/19/21 09:05	02/19/21 15:38	1
Potassium	500	U	500	100	ug/L		02/19/21 09:05	02/19/21 15:38	1
Selenium	25.0	U	25.0	8.7	ug/L		02/19/21 09:05	02/19/21 15:38	1
Silver	6.0	U	6.0	1.7	ug/L		02/19/21 09:05	02/19/21 15:38	1
Sodium	1000	U	1000	324	ug/L		02/19/21 09:05	02/19/21 15:38	1
Thallium	20.0	U	20.0	10.2	ug/L		02/19/21 09:05	02/19/21 15:38	1
Vanadium	5.0	U	5.0	1.5	ug/L		02/19/21 09:05	02/19/21 15:38	1
Zinc	10.0	U	10.0	1.5	ug/L		02/19/21 09:05	02/19/21 15:38	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		02/22/21 13:02	02/22/21 16:16	1

Client Sample ID: DUP-SB (13-15)
Date Collected: 02/12/21 14:16
Date Received: 02/17/21 10:30

Lab Sample ID: 480-181249-6
Matrix: Solid
Percent Solids: 80.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	6.2	U	6.2	0.45	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
1,1,2,2-Tetrachloroethane	6.2	U	6.2	1.0	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
1,1,2-Trichloroethane	6.2	U	6.2	0.80	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	6.2	U	6.2	1.4	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
1,1-Dichloroethane	6.2	U	6.2	0.75	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
1,1-Dichloroethene	6.2	U	6.2	0.76	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
1,2,4-Trichlorobenzene	6.2	U	6.2	0.38	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
1,2-Dibromo-3-Chloropropane	6.2	U	6.2	3.1	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
1,2-Dichlorobenzene	6.2	U	6.2	0.48	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
1,2-Dichloroethane	6.2	U	6.2	0.31	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
1,2-Dichloropropane	6.2	U	6.2	3.1	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
1,3-Dichlorobenzene	6.2	U	6.2	0.32	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
1,4-Dichlorobenzene	6.2	U	6.2	0.87	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
2-Butanone (MEK)	31	U	31	2.3	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
2-Hexanone	31	U	31	3.1	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
4-Methyl-2-pentanone (MIBK)	31	U	31	2.0	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
Acetone	**16**	**J**	31	5.2	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
Benzene	6.2	U	6.2	0.30	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
Bromodichloromethane	6.2	U	6.2	0.83	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
Bromoform	6.2	U	6.2	3.1	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
Bromomethane	6.2	U	6.2	0.56	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
Carbon disulfide	6.2	U	6.2	3.1	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
Carbon tetrachloride	6.2	U	6.2	0.60	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
Chlorobenzene	6.2	U	6.2	0.82	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
Dibromochloromethane	6.2	U	6.2	0.79	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
Chloroethane	6.2	U	6.2	1.4	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
Chloroform	6.2	U	6.2	0.38	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
Chloromethane	6.2	U	6.2	0.37	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
cis-1,2-Dichloroethene	6.2	U	6.2	0.79	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
cis-1,3-Dichloropropene	6.2	U	6.2	0.89	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
Cyclohexane	6.2	U	6.2	0.87	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
Dichlorodifluoromethane	6.2	U	6.2	0.51	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
Ethylbenzene	6.2	U	6.2	0.43	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
1,2-Dibromoethane	6.2	U	6.2	0.79	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
Isopropylbenzene	6.2	U	6.2	0.93	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
Methyl acetate	31	U	31	3.7	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
Methyl tert-butyl ether	6.2	U	6.2	0.61	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
Methylcyclohexane	6.2	U	6.2	0.94	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
Methylene Chloride	6.2	U	6.2	2.8	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
Styrene	6.2	U	6.2	0.31	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
Tetrachloroethene	6.2	U	6.2	0.83	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
Toluene	6.2	U	6.2	0.47	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
trans-1,2-Dichloroethene	6.2	U	6.2	0.64	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
trans-1,3-Dichloropropene	6.2	U	6.2	2.7	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
Trichloroethene	6.2	U	6.2	1.4	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
Trichlorofluoromethane	6.2	U	6.2	0.58	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
Vinyl chloride	6.2	U	6.2	0.75	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1
Xylenes, Total	12	U	12	1.0	ug/Kg	☼	02/17/21 10:30	02/17/21 16:04	1

Client Sample ID: DUP-SB (13-15)
Date Collected: 02/12/21 14:16
Date Received: 02/17/21 10:30

Lab Sample ID: 480-181249-6
Matrix: Solid
Percent Solids: 80.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*71 - 125*	*02/17/21 10:30*	*02/17/21 16:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*64 - 126*	*02/17/21 10:30*	*02/17/21 16:04*	*1*
4-Bromofluorobenzene (Surr)	*107*		*72 - 126*	*02/17/21 10:30*	*02/17/21 16:04*	*1*
Dibromofluoromethane (Surr)	*110*		*60 - 140*	*02/17/21 10:30*	*02/17/21 16:04*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.27	U	0.27	0.053	mg/Kg	☼	02/19/21 08:56	02/21/21 19:34	1
PCB-1221	0.27	U	0.27	0.053	mg/Kg	☼	02/19/21 08:56	02/21/21 19:34	1
PCB-1232	0.27	U	0.27	0.053	mg/Kg	☼	02/19/21 08:56	02/21/21 19:34	1
PCB-1242	0.27	U	0.27	0.053	mg/Kg	☼	02/19/21 08:56	02/21/21 19:34	1
PCB-1248	0.27	U	0.27	0.053	mg/Kg	☼	02/19/21 08:56	02/21/21 19:34	1
PCB-1254	0.27	U	0.27	0.13	mg/Kg	☼	02/19/21 08:56	02/21/21 19:34	1
PCB-1260	0.27	U	0.27	0.13	mg/Kg	☼	02/19/21 08:56	02/21/21 19:34	1
PCB-1262	0.27	U	0.27	0.13	mg/Kg	☼	02/19/21 08:56	02/21/21 19:34	1
PCB-1268	0.27	U	0.27	0.13	mg/Kg	☼	02/19/21 08:56	02/21/21 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*121*		*60 - 154*	*02/19/21 08:56*	*02/21/21 19:34*	*1*
Tetrachloro-m-xylene	*109*		*60 - 154*	*02/19/21 08:56*	*02/21/21 19:34*	*1*
DCB Decachlorobiphenyl	*194*	*	*65 - 174*	*02/19/21 08:56*	*02/21/21 19:34*	*1*
DCB Decachlorobiphenyl	*108*		*65 - 174*	*02/19/21 08:56*	*02/21/21 19:34*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**0.36**	**J B**	0.58	0.22	ug/Kg	☼	02/25/21 15:08	02/26/21 14:42	1
Perfluoropentanoic acid (PFPeA)	**0.030**	**J**	0.23	0.021	ug/Kg	☼	02/25/21 15:08	02/26/21 14:42	1
Perfluorohexanoic acid (PFHxA)	0.23	U	0.23	0.028	ug/Kg	☼	02/25/21 15:08	02/26/21 14:42	1
Perfluoroheptanoic acid (PFHpA)	0.23	U	0.23	0.027	ug/Kg	☼	02/25/21 15:08	02/26/21 14:42	1
Perfluorooctanoic acid (PFOA)	**0.027**	**J**	0.23	0.016	ug/Kg	☼	02/25/21 15:08	02/26/21 14:42	1
Perfluorononanoic acid (PFNA)	0.23	U	0.23	0.023	ug/Kg	☼	02/25/21 15:08	02/26/21 14:42	1
Perfluorodecanoic acid (PFDA)	0.23	U	0.23	0.024	ug/Kg	☼	02/25/21 15:08	02/26/21 14:42	1
Perfluoroundecanoic acid (PFUnA)	0.23	U	0.23	0.028	ug/Kg	☼	02/25/21 15:08	02/26/21 14:42	1
Perfluorododecanoic acid (PFDoA)	0.23	U	0.23	0.017	ug/Kg	☼	02/25/21 15:08	02/26/21 14:42	1
Perfluorotridecanoic acid (PFTriA)	0.23	U	0.23	0.015	ug/Kg	☼	02/25/21 15:08	02/26/21 14:42	1
Perfluorotetradecanoic acid (PFTeA)	0.23	U	0.23	0.022	ug/Kg	☼	02/25/21 15:08	02/26/21 14:42	1
Perfluorobutanesulfonic acid (PFBS)	0.23	U	0.23	0.010	ug/Kg	☼	02/25/21 15:08	02/26/21 14:42	1
Perfluorohexanesulfonic acid (PFHxS)	0.23	U	0.23	0.017	ug/Kg	☼	02/25/21 15:08	02/26/21 14:42	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.23	U	0.23	0.017	ug/Kg	☼	02/25/21 15:08	02/26/21 14:42	1
Perfluorooctanesulfonic acid (PFOS)	0.23	U	0.23	0.078	ug/Kg	☼	02/25/21 15:08	02/26/21 14:42	1
Perfluorodecanesulfonic acid (PFDS)	0.23	U	0.23	0.022	ug/Kg	☼	02/25/21 15:08	02/26/21 14:42	1
Perfluorooctanesulfonamide (PFOSA)	0.23	U	0.23	0.010	ug/Kg	☼	02/25/21 15:08	02/26/21 14:42	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.33	U	2.33	0.040	ug/Kg	☼	02/25/21 15:08	02/26/21 14:42	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.33	U	2.33	0.035	ug/Kg	☼	02/25/21 15:08	02/26/21 14:42	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	2.33	U	2.33	0.026	ug/Kg	☼	02/25/21 15:08	02/26/21 14:42	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	2.33	U	2.33	0.034	ug/Kg	☼	02/25/21 15:08	02/26/21 14:42	1

Client Sample ID: DUP-SB (13-15)
Date Collected: 02/12/21 14:16
Date Received: 02/17/21 10:30

Lab Sample ID: 480-181249-6
Matrix: Solid
Percent Solids: 80.6

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*98*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:42*	*1*
13C4 PFHpA	*99*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:42*	*1*
13C4 PFOA	*97*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:42*	*1*
13C4 PFOS	*100*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:42*	*1*
13C5 PFNA	*93*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:42*	*1*
13C4 PFBA	*36*		*25 - 150*	*02/25/21 15:08*	*02/26/21 14:42*	*1*
13C2 PFHxA	*104*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:42*	*1*
13C2 PFDA	*91*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:42*	*1*
13C2 PFUnA	*88*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:42*	*1*
13C2 PFDoA	*88*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:42*	*1*
13C8 FOSA	*104*		*25 - 150*	*02/25/21 15:08*	*02/26/21 14:42*	*1*
13C5 PFPeA	*96*		*25 - 150*	*02/25/21 15:08*	*02/26/21 14:42*	*1*
13C2 PFTeDA	*75*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:42*	*1*
d3-NMeFOSAA	*94*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:42*	*1*
d5-NEtFOSAA	*86*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:42*	*1*
M2-6:2 FTS	*100*		*25 - 150*	*02/25/21 15:08*	*02/26/21 14:42*	*1*
M2-8:2 FTS	*96*		*25 - 150*	*02/25/21 15:08*	*02/26/21 14:42*	*1*
13C3 PFBS	*99*		*50 - 150*	*02/25/21 15:08*	*02/26/21 14:42*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4290**		12.4	5.5	mg/Kg	☼	02/18/21 16:33	02/19/21 15:23	1
Antimony	18.6	U	18.6	0.50	mg/Kg	☼	02/18/21 16:33	02/19/21 15:23	1
Arsenic	**0.96**	**J**	2.5	0.50	mg/Kg	☼	02/18/21 16:33	02/19/21 15:23	1
Barium	**20.1**		0.62	0.14	mg/Kg	☼	02/18/21 16:33	02/19/21 15:23	1
Beryllium	**0.24**	**J**	0.25	0.035	mg/Kg	☼	02/18/21 16:33	02/19/21 15:23	1
Cadmium	0.25	U	0.25	0.037	mg/Kg	☼	02/18/21 16:33	02/19/21 15:23	1
Calcium	**2630**		62.1	4.1	mg/Kg	☼	02/18/21 16:33	02/19/21 15:23	1
Chromium	**5.0**		0.62	0.25	mg/Kg	☼	02/18/21 16:33	02/19/21 15:23	1
Cobalt	**2.7**		0.62	0.062	mg/Kg	☼	02/18/21 16:33	02/19/21 15:23	1
Copper	**2.5**		1.2	0.26	mg/Kg	☼	02/18/21 16:33	02/19/21 15:23	1
Iron	**7350**		12.4	4.4	mg/Kg	☼	02/18/21 16:33	02/19/21 15:23	1
Lead	**1.1**	**J**	1.2	0.30	mg/Kg	☼	02/18/21 16:33	02/19/21 15:23	1
Magnesium	**1580**		24.9	1.2	mg/Kg	☼	02/18/21 16:33	02/19/21 15:23	1
Manganese	**51.0**	**B**	0.25	0.040	mg/Kg	☼	02/18/21 16:33	02/19/21 15:23	1
Nickel	**4.0**	**J**	6.2	0.29	mg/Kg	☼	02/18/21 16:33	02/19/21 15:23	1
Potassium	**585**		37.3	24.9	mg/Kg	☼	02/18/21 16:33	02/19/21 15:23	1
Selenium	5.0	U	5.0	0.50	mg/Kg	☼	02/18/21 16:33	02/19/21 15:23	1
Silver	0.75	U	0.75	0.25	mg/Kg	☼	02/18/21 16:33	02/19/21 15:23	1
Sodium	**289**		174	16.2	mg/Kg	☼	02/18/21 16:33	02/19/21 15:23	1
Thallium	7.5	U	7.5	0.37	mg/Kg	☼	02/18/21 16:33	02/19/21 15:23	1
Vanadium	**14.7**		0.62	0.14	mg/Kg	☼	02/18/21 16:33	02/19/21 15:23	1
Zinc	**18.8**		2.5	0.80	mg/Kg	☼	02/18/21 16:33	02/19/21 15:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023	U	0.023	0.0095	mg/Kg	☼	02/24/21 13:29	02/24/21 15:05	1

Client Sample ID: TB-20210210
Lab Sample ID: 480-181249-7

Date Collected: 02/10/21 00:00
Matrix: Water

Date Received: 02/17/21 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			02/17/21 13:18	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			02/17/21 13:18	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			02/17/21 13:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			02/17/21 13:18	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			02/17/21 13:18	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			02/17/21 13:18	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			02/17/21 13:18	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			02/17/21 13:18	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			02/17/21 13:18	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			02/17/21 13:18	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			02/17/21 13:18	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			02/17/21 13:18	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			02/17/21 13:18	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			02/17/21 13:18	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			02/17/21 13:18	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			02/17/21 13:18	1
Acetone	10	U	10	3.0	ug/L			02/17/21 13:18	1
Benzene	1.0	U	1.0	0.41	ug/L			02/17/21 13:18	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			02/17/21 13:18	1
Bromoform	1.0	U	1.0	0.26	ug/L			02/17/21 13:18	1
Bromomethane	1.0	U	1.0	0.69	ug/L			02/17/21 13:18	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			02/17/21 13:18	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			02/17/21 13:18	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			02/17/21 13:18	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			02/17/21 13:18	1
Chloroethane	1.0	U	1.0	0.32	ug/L			02/17/21 13:18	1
Chloroform	1.0	U	1.0	0.34	ug/L			02/17/21 13:18	1
Chloromethane	1.0	U	1.0	0.35	ug/L			02/17/21 13:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			02/17/21 13:18	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			02/17/21 13:18	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			02/17/21 13:18	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			02/17/21 13:18	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			02/17/21 13:18	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			02/17/21 13:18	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			02/17/21 13:18	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			02/17/21 13:18	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			02/17/21 13:18	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			02/17/21 13:18	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			02/17/21 13:18	1
Styrene	1.0	U	1.0	0.73	ug/L			02/17/21 13:18	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			02/17/21 13:18	1
Toluene	1.0	U	1.0	0.51	ug/L			02/17/21 13:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			02/17/21 13:18	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			02/17/21 13:18	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			02/17/21 13:18	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			02/17/21 13:18	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			02/17/21 13:18	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			02/17/21 13:18	1

Client Sample ID: TB-20210210
Date Collected: 02/10/21 00:00
Date Received: 02/17/21 10:30

Lab Sample ID: 480-181249-7
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 120		02/17/21 13:18	1
1,2-Dichloroethane-d4 (Surr)	95		77 - 120		02/17/21 13:18	1
4-Bromofluorobenzene (Surr)	98		73 - 120		02/17/21 13:18	1
Dibromofluoromethane (Surr)	99		75 - 123		02/17/21 13:18	1

Surrogate Summary

Client: New York State D.E.C.
Job ID: 480-181249-1
Project/Site: Fort Edward Landfill #558001

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(71-125)	(64-126)	(72-126)	(60-140)
480-181249-1	SB-12C (32-33)	98	97	109	104
480-181249-2	SB-12C (55-56)	140 *	91	64 *	109
480-181249-3	SB-12A (4-6)	98	99	106	111
480-181249-3 MS	SB-12A (4-6)	100	86	109	102
480-181249-3 MSD	SB-12A (4-6)	100	87	111	103
480-181249-4	SB-12A (13-15)	100	97	108	105
480-181249-6	DUP-SB (13-15)	99	100	107	110
LCS 480-569843/1-A	Lab Control Sample	99	98	113	105
LCS 480-569920/1-A	Lab Control Sample	97	96	110	101
MB 480-569843/2-A	Method Blank	98	98	111	105
MB 480-569920/2-A	Method Blank	98	99	108	105

Surrogate Legend

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

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(77-120)	(73-120)	(75-123)
480-181249-5	EB-20210210	100	89	89	94
480-181249-7	TB-20210210	101	95	98	99
LCS 480-569749/5	Lab Control Sample	101	92	93	97
MB 480-569749/7	Method Blank	101	94	97	97

Surrogate Legend

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

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(60-154)	(60-154)	(65-174)	(65-174)
480-181249-1	SB-12C (32-33)	112	128	112	202 *
480-181249-2	SB-12C (55-56)	106	109	102	179 *
480-181249-3	SB-12A (4-6)	115	125	111	197 *
480-181249-3 MS	SB-12A (4-6)	117	128	110	199 *
480-181249-3 MSD	SB-12A (4-6)	160 *	185 *	159	283 *
480-181249-4	SB-12A (13-15)	110	122	110	197 *
480-181249-6	DUP-SB (13-15)	109	121	108	194 *
LCS 480-570093/2-A	Lab Control Sample	129	141	127	217 *
MB 480-570093/1-A	Method Blank	133	139	127	219 *

Surrogate Legend

Surrogate Summary

Client: New York State D.E.C. Job ID: 480-181249-1
Project/Site: Fort Edward Landfill #558001

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	TCX1 (39-121)	DCBP1 (19-120)								
480-181249-5	EB-20210210	71	42								
LCS 480-569918/2-A	Lab Control Sample	61	42								
MB 480-569918/1-A	Method Blank	58	42								

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Isotope Dilution Summary

Client: New York State D.E.C.
Project/Site: Fort Edward Landfill #558001

Job ID: 480-181249-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFHxS	C4PFHA	PFOA	PFOS	PFNA	PFBA	PFHxA	PFDA
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)	(25-150)	(50-150)	(50-150)
480-181249-1	SB-12C (32-33)	98	101	102	101	98	42	105	93
480-181249-2	SB-12C (55-56)	67	82	77	70	77	79	85	78
480-181249-3	SB-12A (4-6)	90	102	98	91	98	89	107	105
480-181249-3 MS	SB-12A (4-6)	88	98	95	81	89	84	99	95
480-181249-3 MSD	SB-12A (4-6)	80	89	89	82	92	75	91	89
480-181249-4	SB-12A (13-15)	104	99	99	105	95	39	103	90
480-181249-6	DUP-SB (13-15)	98	99	97	100	93	36	104	91
LCS 200-164298/2-A	Lab Control Sample	106	105	106	108	99	71	108	94
MB 200-164298/1-A	Method Blank	105	111	106	105	100	75	108	96

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFUnA	PFDoA	PFOSA	PFPeA	PFTDA	d3NMFOS	d5NEFOS	M262FTS
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(25-150)	(25-150)	(50-150)	(50-150)	(50-150)	(25-150)
480-181249-1	SB-12C (32-33)	88	90	96	98	74	94	86	104
480-181249-2	SB-12C (55-56)	77	73	70	79	62	72	74	63
480-181249-3	SB-12A (4-6)	102	88	86	93	77	78	99	108
480-181249-3 MS	SB-12A (4-6)	97	87	80	90	76	72	98	104
480-181249-3 MSD	SB-12A (4-6)	94	82	77	85	69	73	87	105
480-181249-4	SB-12A (13-15)	88	86	93	94	76	92	93	104
480-181249-6	DUP-SB (13-15)	88	88	104	96	75	94	86	100
LCS 200-164298/2-A	Lab Control Sample	87	92	97	105	77	90	89	106
MB 200-164298/1-A	Method Blank	90	91	101	103	77	87	93	117

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		M282FTS	C3PFBS						
Lab Sample ID	Client Sample ID	(25-150)	(50-150)						
480-181249-1	SB-12C (32-33)	118	99						
480-181249-2	SB-12C (55-56)	67	69						
480-181249-3	SB-12A (4-6)	138	89						
480-181249-3 MS	SB-12A (4-6)	134	87						
480-181249-3 MSD	SB-12A (4-6)	119	84						
480-181249-4	SB-12A (13-15)	105	96						
480-181249-6	DUP-SB (13-15)	96	99						
LCS 200-164298/2-A	Lab Control Sample	103	106						
MB 200-164298/1-A	Method Blank	102	108						

Surrogate Legend

PFHxS = 18O2 PFHxS
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFOS = 13C4 PFOS
PFNA = 13C5 PFNA
PFBA = 13C4 PFBA
PFHxA = 13C2 PFHxA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFOSA = 13C8 FOSA
PFPeA = 13C5 PFPeA
PFTDA = 13C2 PFTeDA
d3NMFOS = d3-NMeFOSAA

Isotope Dilution Summary

Client: New York State D.E.C. Job ID: 480-181249-1

Project/Site: Fort Edward Landfill #558001

d5NEFOS = d5-NEtFOSAA
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
C3PFBS = 13C3 PFBS

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFOSA	PFBA	PFPeA	PFHxA	C4PFHA	PFOA	PFNA	PFDA
Lab Sample ID	Client Sample ID	(25-150)	(25-150)	(25-150)	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)
480-181249-5	EB-20210210	69	109	109	110	109	104	105	94
LCS 200-164111/2-A	Lab Control Sample	87	116	112	114	110	113	110	106
MB 200-164111/1-A	Method Blank	88	112	110	107	107	106	101	95

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFUnA	PFDoA	PFTDA	C3PFBS	PFHxS	PFOS	d3NMFOS	d5NEFOS
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)
480-181249-5	EB-20210210	85	74	69	103	102	102	81	75
LCS 200-164111/2-A	Lab Control Sample	92	84	87	105	112	111	90	91
MB 200-164111/1-A	Method Blank	84	82	80	106	109	100	93	85

		Percent Isotope Dilution Recovery (Acceptance Limits)	
		M262FTS	M282FTS
Lab Sample ID	Client Sample ID	(25-150)	(25-150)
480-181249-5	EB-20210210	104	104
LCS 200-164111/2-A	Lab Control Sample	110	110
MB 200-164111/1-A	Method Blank	110	106

Surrogate Legend

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

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

Lab Sample ID: MB 480-569749/7
Matrix: Water
Analysis Batch: 569749

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			02/17/21 12:19	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			02/17/21 12:19	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			02/17/21 12:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			02/17/21 12:19	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			02/17/21 12:19	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			02/17/21 12:19	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			02/17/21 12:19	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			02/17/21 12:19	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			02/17/21 12:19	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			02/17/21 12:19	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			02/17/21 12:19	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			02/17/21 12:19	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			02/17/21 12:19	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			02/17/21 12:19	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			02/17/21 12:19	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			02/17/21 12:19	1
Acetone	10	U	10	3.0	ug/L			02/17/21 12:19	1
Benzene	1.0	U	1.0	0.41	ug/L			02/17/21 12:19	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			02/17/21 12:19	1
Bromoform	1.0	U	1.0	0.26	ug/L			02/17/21 12:19	1
Bromomethane	1.0	U	1.0	0.69	ug/L			02/17/21 12:19	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			02/17/21 12:19	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			02/17/21 12:19	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			02/17/21 12:19	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			02/17/21 12:19	1
Chloroethane	1.0	U	1.0	0.32	ug/L			02/17/21 12:19	1
Chloroform	1.0	U	1.0	0.34	ug/L			02/17/21 12:19	1
Chloromethane	1.0	U	1.0	0.35	ug/L			02/17/21 12:19	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			02/17/21 12:19	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			02/17/21 12:19	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			02/17/21 12:19	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			02/17/21 12:19	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			02/17/21 12:19	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			02/17/21 12:19	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			02/17/21 12:19	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			02/17/21 12:19	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			02/17/21 12:19	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			02/17/21 12:19	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			02/17/21 12:19	1
Styrene	1.0	U	1.0	0.73	ug/L			02/17/21 12:19	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			02/17/21 12:19	1
Toluene	1.0	U	1.0	0.51	ug/L			02/17/21 12:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			02/17/21 12:19	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			02/17/21 12:19	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			02/17/21 12:19	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			02/17/21 12:19	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			02/17/21 12:19	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			02/17/21 12:19	1

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

Lab Sample ID: MB 480-569749/7
Matrix: Water
Analysis Batch: 569749

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*101*		*80 - 120*		*02/17/21 12:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*02/17/21 12:19*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*02/17/21 12:19*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*02/17/21 12:19*	*1*

Lab Sample ID: LCS 480-569749/5
Matrix: Water
Analysis Batch: 569749

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	26.0		ug/L		104	73 - 126
1,1,2,2-Tetrachloroethane	25.0	26.5		ug/L		106	76 - 120
1,1,2-Trichloroethane	25.0	26.7		ug/L		107	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	27.0		ug/L		108	61 - 148
1,1-Dichloroethane	25.0	26.7		ug/L		107	77 - 120
1,1-Dichloroethene	25.0	26.9		ug/L		108	66 - 127
1,2,4-Trichlorobenzene	25.0	26.8		ug/L		107	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	24.5		ug/L		98	56 - 134
1,2-Dichlorobenzene	25.0	26.3		ug/L		105	80 - 124
1,2-Dichloroethane	25.0	24.5		ug/L		98	75 - 120
1,2-Dichloropropane	25.0	27.5		ug/L		110	76 - 120
1,3-Dichlorobenzene	25.0	26.2		ug/L		105	77 - 120
1,4-Dichlorobenzene	25.0	25.9		ug/L		104	80 - 120
2-Butanone (MEK)	125	112		ug/L		90	57 - 140
2-Hexanone	125	122		ug/L		98	65 - 127
4-Methyl-2-pentanone (MIBK)	125	123		ug/L		99	71 - 125
Acetone	125	106		ug/L		85	56 - 142
Benzene	25.0	26.6		ug/L		106	71 - 124
Bromodichloromethane	25.0	26.8		ug/L		107	80 - 122
Bromoform	25.0	26.5		ug/L		106	61 - 132
Bromomethane	25.0	27.3		ug/L		109	55 - 144
Carbon disulfide	25.0	28.6		ug/L		115	59 - 134
Carbon tetrachloride	25.0	25.4		ug/L		102	72 - 134
Chlorobenzene	25.0	25.8		ug/L		103	80 - 120
Dibromochloromethane	25.0	26.3		ug/L		105	75 - 125
Chloroethane	25.0	27.8		ug/L		111	69 - 136
Chloroform	25.0	24.4		ug/L		98	73 - 127
Chloromethane	25.0	24.9		ug/L		100	68 - 124
cis-1,2-Dichloroethene	25.0	26.6		ug/L		106	74 - 124
cis-1,3-Dichloropropene	25.0	27.7		ug/L		111	74 - 124
Cyclohexane	25.0	25.8		ug/L		103	59 - 135
Dichlorodifluoromethane	25.0	21.7		ug/L		87	59 - 135
Ethylbenzene	25.0	26.6		ug/L		107	77 - 123
1,2-Dibromoethane	25.0	25.8		ug/L		103	77 - 120
Isopropylbenzene	25.0	27.5		ug/L		110	77 - 122
Methyl acetate	50.0	46.4		ug/L		93	74 - 133
Methyl tert-butyl ether	25.0	26.8		ug/L		107	77 - 120
Methylcyclohexane	25.0	27.5		ug/L		110	68 - 134

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

Lab Sample ID: LCS 480-569749/5
Matrix: Water
Analysis Batch: 569749

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	25.0	26.9		ug/L		108	75 - 124
Styrene	25.0	27.3		ug/L		109	80 - 120
Tetrachloroethene	25.0	26.0		ug/L		104	74 - 122
Toluene	25.0	26.9		ug/L		107	80 - 122
trans-1,2-Dichloroethene	25.0	27.9		ug/L		112	73 - 127
trans-1,3-Dichloropropene	25.0	27.6		ug/L		110	80 - 120
Trichloroethene	25.0	26.8		ug/L		107	74 - 123
Trichlorofluoromethane	25.0	23.9		ug/L		96	62 - 150
Vinyl chloride	25.0	28.4		ug/L		114	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*92*		*77 - 120*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*
Dibromofluoromethane (Surr)	*97*		*75 - 123*

Lab Sample ID: MB 480-569843/2-A
Matrix: Solid
Analysis Batch: 569734

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 569843

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0	0.36	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.81	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
1,1,2-Trichloroethane	5.0	U	5.0	0.65	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1.1	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
1,1-Dichloroethane	5.0	U	5.0	0.61	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
1,1-Dichloroethene	5.0	U	5.0	0.61	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
1,2,4-Trichlorobenzene	5.0	U	5.0	0.30	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.5	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
1,2-Dichlorobenzene	5.0	U	5.0	0.39	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
1,2-Dichloroethane	5.0	U	5.0	0.25	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
1,2-Dichloropropane	5.0	U	5.0	2.5	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
1,3-Dichlorobenzene	5.0	U	5.0	0.26	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
1,4-Dichlorobenzene	5.0	U	5.0	0.70	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
2-Butanone (MEK)	25	U	25	1.8	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
2-Hexanone	25	U	25	2.5	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
4-Methyl-2-pentanone (MIBK)	25	U	25	1.6	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
Acetone	25	U	25	4.2	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
Benzene	5.0	U	5.0	0.25	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
Bromodichloromethane	5.0	U	5.0	0.67	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
Bromoform	5.0	U	5.0	2.5	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
Bromomethane	5.0	U	5.0	0.45	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
Carbon disulfide	5.0	U	5.0	2.5	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
Carbon tetrachloride	5.0	U	5.0	0.48	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
Chlorobenzene	5.0	U	5.0	0.66	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
Dibromochloromethane	5.0	U	5.0	0.64	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
Chloroethane	5.0	U	5.0	1.1	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
Chloroform	5.0	U	5.0	0.31	ug/Kg		02/17/21 10:30	02/17/21 11:58	1

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

Lab Sample ID: MB 480-569843/2-A
Matrix: Solid
Analysis Batch: 569734

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 569843

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	5.0	U	5.0	0.30	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
cis-1,2-Dichloroethene	5.0	U	5.0	0.64	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
cis-1,3-Dichloropropene	5.0	U	5.0	0.72	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
Cyclohexane	5.0	U	5.0	0.70	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
Dichlorodifluoromethane	5.0	U	5.0	0.41	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
Ethylbenzene	5.0	U	5.0	0.35	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
1,2-Dibromoethane	5.0	U	5.0	0.64	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
Isopropylbenzene	5.0	U	5.0	0.75	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
Methyl acetate	25	U	25	3.0	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
Methyl tert-butyl ether	5.0	U	5.0	0.49	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
Methylcyclohexane	5.0	U	5.0	0.76	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
Methylene Chloride	5.0	U	5.0	2.3	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
Styrene	5.0	U	5.0	0.25	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
Tetrachloroethene	5.0	U	5.0	0.67	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
Toluene	5.0	U	5.0	0.38	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
trans-1,2-Dichloroethene	5.0	U	5.0	0.52	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
trans-1,3-Dichloropropene	5.0	U	5.0	2.2	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
Trichloroethene	5.0	U	5.0	1.1	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
Trichlorofluoromethane	5.0	U	5.0	0.47	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
Vinyl chloride	5.0	U	5.0	0.61	ug/Kg		02/17/21 10:30	02/17/21 11:58	1
Xylenes, Total	10	U	10	0.84	ug/Kg		02/17/21 10:30	02/17/21 11:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*71 - 125*	*02/17/21 10:30*	*02/17/21 11:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*64 - 126*	*02/17/21 10:30*	*02/17/21 11:58*	*1*
4-Bromofluorobenzene (Surr)	*111*		*72 - 126*	*02/17/21 10:30*	*02/17/21 11:58*	*1*
Dibromofluoromethane (Surr)	*105*		*60 - 140*	*02/17/21 10:30*	*02/17/21 11:58*	*1*

Lab Sample ID: LCS 480-569843/1-A
Matrix: Solid
Analysis Batch: 569734

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 569843

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	49.9		ug/Kg		100	77 - 121
1,1,2,2-Tetrachloroethane	50.0	49.1		ug/Kg		98	80 - 120
1,1,2-Trichloroethane	50.0	51.8		ug/Kg		104	78 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	58.5		ug/Kg		117	60 - 140
1,1-Dichloroethane	50.0	52.6		ug/Kg		105	73 - 126
1,1-Dichloroethene	50.0	53.8		ug/Kg		108	59 - 125
1,2,4-Trichlorobenzene	50.0	50.3		ug/Kg		101	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	45.9		ug/Kg		92	63 - 124
1,2-Dichlorobenzene	50.0	49.2		ug/Kg		98	75 - 120
1,2-Dichloroethane	50.0	47.2		ug/Kg		94	77 - 122
1,2-Dichloropropane	50.0	55.7		ug/Kg		111	75 - 124
1,3-Dichlorobenzene	50.0	49.0		ug/Kg		98	74 - 120
1,4-Dichlorobenzene	50.0	49.3		ug/Kg		99	73 - 120
2-Butanone (MEK)	250	278		ug/Kg		111	70 - 134
2-Hexanone	250	273		ug/Kg		109	59 - 130

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

Lab Sample ID: LCS 480-569843/1-A
Matrix: Solid
Analysis Batch: 569734

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 569843

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Methyl-2-pentanone (MIBK)	250	264		ug/Kg		106	65 - 133
Acetone	250	258		ug/Kg		103	61 - 137
Benzene	50.0	53.7		ug/Kg		107	79 - 127
Bromodichloromethane	50.0	50.2		ug/Kg		100	80 - 122
Bromoform	50.0	56.4		ug/Kg		113	68 - 126
Bromomethane	50.0	44.9		ug/Kg		90	37 - 149
Carbon disulfide	50.0	54.6		ug/Kg		109	64 - 131
Carbon tetrachloride	50.0	54.7		ug/Kg		109	75 - 135
Chlorobenzene	50.0	54.4		ug/Kg		109	76 - 124
Dibromochloromethane	50.0	54.0		ug/Kg		108	76 - 125
Chloroethane	50.0	46.6		ug/Kg		93	69 - 135
Chloroform	50.0	50.0		ug/Kg		100	80 - 120
Chloromethane	50.0	45.6		ug/Kg		91	63 - 127
cis-1,2-Dichloroethene	50.0	53.2		ug/Kg		106	81 - 120
cis-1,3-Dichloropropene	50.0	56.2		ug/Kg		112	80 - 120
Cyclohexane	50.0	58.3		ug/Kg		117	65 - 120
Dichlorodifluoromethane	50.0	55.0		ug/Kg		110	57 - 142
Ethylbenzene	50.0	51.1		ug/Kg		102	80 - 120
1,2-Dibromoethane	50.0	54.7		ug/Kg		109	78 - 120
Isopropylbenzene	50.0	50.3		ug/Kg		101	72 - 120
Methyl acetate	100	107		ug/Kg		107	55 - 136
Methyl tert-butyl ether	50.0	51.8		ug/Kg		104	63 - 125
Methylcyclohexane	50.0	59.5		ug/Kg		119	60 - 140
Methylene Chloride	50.0	52.6		ug/Kg		105	61 - 127
Styrene	50.0	54.8		ug/Kg		110	80 - 120
Tetrachloroethene	50.0	57.3		ug/Kg		115	74 - 122
Toluene	50.0	50.7		ug/Kg		101	74 - 128
trans-1,2-Dichloroethene	50.0	53.9		ug/Kg		108	78 - 126
trans-1,3-Dichloropropene	50.0	51.3		ug/Kg		103	73 - 123
Trichloroethene	50.0	53.7		ug/Kg		107	77 - 129
Trichlorofluoromethane	50.0	53.3		ug/Kg		107	65 - 146
Vinyl chloride	50.0	48.7		ug/Kg		97	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*71 - 125*
1,2-Dichloroethane-d4 (Surr)	*98*		*64 - 126*
4-Bromofluorobenzene (Surr)	*113*		*72 - 126*
Dibromofluoromethane (Surr)	*105*		*60 - 140*

Lab Sample ID: MB 480-569920/2-A
Matrix: Solid
Analysis Batch: 569897

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 569920

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0	0.36	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.81	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
1,1,2-Trichloroethane	5.0	U	5.0	0.65	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1.1	ug/Kg		02/18/21 09:16	02/18/21 11:12	1

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

Lab Sample ID: MB 480-569920/2-A
Matrix: Solid
Analysis Batch: 569897

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 569920

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	5.0	U	5.0	0.61	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
1,1-Dichloroethene	5.0	U	5.0	0.61	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
1,2,4-Trichlorobenzene	5.0	U	5.0	0.30	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.5	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
1,2-Dichlorobenzene	5.0	U	5.0	0.39	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
1,2-Dichloroethane	5.0	U	5.0	0.25	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
1,2-Dichloropropane	5.0	U	5.0	2.5	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
1,3-Dichlorobenzene	5.0	U	5.0	0.26	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
1,4-Dichlorobenzene	5.0	U	5.0	0.70	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
2-Butanone (MEK)	25	U	25	1.8	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
2-Hexanone	25	U	25	2.5	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
4-Methyl-2-pentanone (MIBK)	25	U	25	1.6	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
Acetone	25	U	25	4.2	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
Benzene	5.0	U	5.0	0.25	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
Bromodichloromethane	5.0	U	5.0	0.67	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
Bromoform	5.0	U	5.0	2.5	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
Bromomethane	5.0	U	5.0	0.45	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
Carbon disulfide	5.0	U	5.0	2.5	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
Carbon tetrachloride	5.0	U	5.0	0.48	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
Chlorobenzene	5.0	U	5.0	0.66	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
Dibromochloromethane	5.0	U	5.0	0.64	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
Chloroethane	5.0	U	5.0	1.1	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
Chloroform	5.0	U	5.0	0.31	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
Chloromethane	5.0	U	5.0	0.30	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
cis-1,2-Dichloroethene	5.0	U	5.0	0.64	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
cis-1,3-Dichloropropene	5.0	U	5.0	0.72	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
Cyclohexane	5.0	U	5.0	0.70	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
Dichlorodifluoromethane	5.0	U	5.0	0.41	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
Ethylbenzene	5.0	U	5.0	0.35	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
1,2-Dibromoethane	5.0	U	5.0	0.64	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
Isopropylbenzene	5.0	U	5.0	0.75	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
Methyl acetate	25	U	25	3.0	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
Methyl tert-butyl ether	5.0	U	5.0	0.49	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
Methylcyclohexane	5.0	U	5.0	0.76	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
Methylene Chloride	4.19	J	5.0	2.3	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
Styrene	5.0	U	5.0	0.25	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
Tetrachloroethene	5.0	U	5.0	0.67	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
Toluene	5.0	U	5.0	0.38	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
trans-1,2-Dichloroethene	5.0	U	5.0	0.52	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
trans-1,3-Dichloropropene	5.0	U	5.0	2.2	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
Trichloroethene	5.0	U	5.0	1.1	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
Trichlorofluoromethane	5.0	U	5.0	0.47	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
Vinyl chloride	5.0	U	5.0	0.61	ug/Kg		02/18/21 09:16	02/18/21 11:12	1
Xylenes, Total	10	U	10	0.84	ug/Kg		02/18/21 09:16	02/18/21 11:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*71 - 125*	*02/18/21 09:16*	*02/18/21 11:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*64 - 126*	*02/18/21 09:16*	*02/18/21 11:12*	*1*

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

Lab Sample ID: MB 480-569920/2-A
Matrix: Solid
Analysis Batch: 569897

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 569920

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*108*		*72 - 126*	*02/18/21 09:16*	*02/18/21 11:12*	*1*
Dibromofluoromethane (Surr)	*105*		*60 - 140*	*02/18/21 09:16*	*02/18/21 11:12*	*1*

Lab Sample ID: LCS 480-569920/1-A
Matrix: Solid
Analysis Batch: 569897

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 569920

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	50.3		ug/Kg		101	77 - 121
1,1,2,2-Tetrachloroethane	50.0	50.5		ug/Kg		101	80 - 120
1,1,2-Trichloroethane	50.0	51.9		ug/Kg		104	78 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	58.9		ug/Kg		118	60 - 140
1,1-Dichloroethane	50.0	51.8		ug/Kg		104	73 - 126
1,1-Dichloroethene	50.0	55.3		ug/Kg		111	59 - 125
1,2,4-Trichlorobenzene	50.0	51.3		ug/Kg		103	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	47.9		ug/Kg		96	63 - 124
1,2-Dichlorobenzene	50.0	50.0		ug/Kg		100	75 - 120
1,2-Dichloroethane	50.0	46.5		ug/Kg		93	77 - 122
1,2-Dichloropropane	50.0	54.0		ug/Kg		108	75 - 124
1,3-Dichlorobenzene	50.0	49.8		ug/Kg		100	74 - 120
1,4-Dichlorobenzene	50.0	49.3		ug/Kg		99	73 - 120
2-Butanone (MEK)	250	282		ug/Kg		113	70 - 134
2-Hexanone	250	272		ug/Kg		109	59 - 130
4-Methyl-2-pentanone (MIBK)	250	268		ug/Kg		107	65 - 133
Acetone	250	261		ug/Kg		105	61 - 137
Benzene	50.0	53.9		ug/Kg		108	79 - 127
Bromodichloromethane	50.0	50.8		ug/Kg		102	80 - 122
Bromoform	50.0	57.0		ug/Kg		114	68 - 126
Bromomethane	50.0	46.6		ug/Kg		93	37 - 149
Carbon disulfide	50.0	55.4		ug/Kg		111	64 - 131
Carbon tetrachloride	50.0	55.5		ug/Kg		111	75 - 135
Chlorobenzene	50.0	53.9		ug/Kg		108	76 - 124
Dibromochloromethane	50.0	53.9		ug/Kg		108	76 - 125
Chloroethane	50.0	45.0		ug/Kg		90	69 - 135
Chloroform	50.0	50.2		ug/Kg		100	80 - 120
Chloromethane	50.0	45.1		ug/Kg		90	63 - 127
cis-1,2-Dichloroethene	50.0	53.2		ug/Kg		106	81 - 120
cis-1,3-Dichloropropene	50.0	55.6		ug/Kg		111	80 - 120
Cyclohexane	50.0	57.6		ug/Kg		115	65 - 120
Dichlorodifluoromethane	50.0	51.7		ug/Kg		103	57 - 142
Ethylbenzene	50.0	51.2		ug/Kg		102	80 - 120
1,2-Dibromoethane	50.0	54.2		ug/Kg		108	78 - 120
Isopropylbenzene	50.0	51.2		ug/Kg		102	72 - 120
Methyl acetate	100	107		ug/Kg		107	55 - 136
Methyl tert-butyl ether	50.0	52.1		ug/Kg		104	63 - 125
Methylcyclohexane	50.0	59.6		ug/Kg		119	60 - 140
Methylene Chloride	50.0	53.6		ug/Kg		107	61 - 127
Styrene	50.0	53.9		ug/Kg		108	80 - 120

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

Lab Sample ID: LCS 480-569920/1-A
Matrix: Solid
Analysis Batch: 569897

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 569920

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	50.0	57.2		ug/Kg		114	74 - 122
Toluene	50.0	51.3		ug/Kg		103	74 - 128
trans-1,2-Dichloroethene	50.0	54.8		ug/Kg		110	78 - 126
trans-1,3-Dichloropropene	50.0	50.3		ug/Kg		101	73 - 123
Trichloroethene	50.0	52.7		ug/Kg		105	77 - 129
Trichlorofluoromethane	50.0	54.6		ug/Kg		109	65 - 146
Vinyl chloride	50.0	49.5		ug/Kg		99	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*71 - 125*
1,2-Dichloroethane-d4 (Surr)	*96*		*64 - 126*
4-Bromofluorobenzene (Surr)	*110*		*72 - 126*
Dibromofluoromethane (Surr)	*101*		*60 - 140*

Lab Sample ID: 480-181249-3 MS
Matrix: Solid
Analysis Batch: 569897

Client Sample ID: SB-12A (4-6)
Prep Type: Total/NA
Prep Batch: 569920

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	6.1	U	62.1	57.7		ug/Kg	☼	93	77 - 121
1,1,2,2-Tetrachloroethane	6.1	U	62.1	40.2	*	ug/Kg	☼	65	80 - 120
1,1,2-Trichloroethane	6.1	U	62.1	48.7		ug/Kg	☼	78	78 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	6.1	U	62.1	64.9		ug/Kg	☼	104	60 - 140
1,1-Dichloroethane	6.1	U	62.1	58.1		ug/Kg	☼	94	73 - 126
1,1-Dichloroethene	6.1	U	62.1	60.8		ug/Kg	☼	98	59 - 125
1,2,4-Trichlorobenzene	6.1	U	62.1	37.6	*	ug/Kg	☼	61	64 - 120
1,2-Dibromo-3-Chloropropane	6.1	U	62.1	34.9	*	ug/Kg	☼	56	63 - 124
1,2-Dichlorobenzene	6.1	U	62.1	47.2		ug/Kg	☼	76	75 - 120
1,2-Dichloroethane	6.1	U	62.1	46.5	*	ug/Kg	☼	75	77 - 122
1,2-Dichloropropane	6.1	U	62.1	57.9		ug/Kg	☼	93	75 - 124
1,3-Dichlorobenzene	6.1	U	62.1	48.3		ug/Kg	☼	78	74 - 120
1,4-Dichlorobenzene	6.1	U	62.1	49.0		ug/Kg	☼	79	73 - 120
2-Butanone (MEK)	11	J	311	208	*	ug/Kg	☼	64	70 - 134
2-Hexanone	31	U	311	199		ug/Kg	☼	64	59 - 130
4-Methyl-2-pentanone (MIBK)	31	U	311	199	*	ug/Kg	☼	64	65 - 133
Acetone	42		311	215	*	ug/Kg	☼	56	61 - 137
Benzene	6.1	U	62.1	59.0		ug/Kg	☼	95	79 - 127
Bromodichloromethane	6.1	U	62.1	52.3		ug/Kg	☼	84	80 - 122
Bromoform	6.1	U	62.1	45.9		ug/Kg	☼	74	68 - 126
Bromomethane	6.1	U	62.1	57.2		ug/Kg	☼	92	37 - 149
Carbon disulfide	6.1	U	62.1	60.0		ug/Kg	☼	97	64 - 131
Carbon tetrachloride	6.1	U	62.1	59.7		ug/Kg	☼	96	75 - 135
Chlorobenzene	2.2	J	62.1	58.9		ug/Kg	☼	91	76 - 124
Dibromochloromethane	6.1	U	62.1	51.5		ug/Kg	☼	83	76 - 125
Chloroethane	6.1	U	62.1	58.4		ug/Kg	☼	94	69 - 135
Chloroform	6.1	U	62.1	55.0		ug/Kg	☼	89	80 - 120
Chloromethane	6.1	U	62.1	57.4		ug/Kg	☼	92	63 - 127
cis-1,2-Dichloroethene	6.1	U	62.1	58.0		ug/Kg	☼	93	80 - 120

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

Lab Sample ID: 480-181249-3 MS
Matrix: Solid
Analysis Batch: 569897

Client Sample ID: SB-12A (4-6)
Prep Type: Total/NA
Prep Batch: 569920

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	6.1	U	62.1	55.0		ug/Kg	☼	89	80 - 120
Cyclohexane	6.1	U	62.1	63.1		ug/Kg	☼	102	65 - 120
Dichlorodifluoromethane	6.1	U	62.1	64.9		ug/Kg	☼	105	57 - 142
Ethylbenzene	6.1	U	62.1	53.9		ug/Kg	☼	87	80 - 120
1,2-Dibromoethane	6.1	U	62.1	48.0	*	ug/Kg	☼	77	78 - 120
Isopropylbenzene	6.1	U	62.1	55.0		ug/Kg	☼	89	72 - 120
Methyl acetate	31	U	124	89.5		ug/Kg	☼	72	55 - 136
Methyl tert-butyl ether	6.1	U	62.1	50.1		ug/Kg	☼	81	63 - 125
Methylcyclohexane	6.1	U	62.1	58.1		ug/Kg	☼	94	60 - 140
Methylene Chloride	9.7	B	62.1	65.6		ug/Kg	☼	90	61 - 127
Styrene	6.1	U	62.1	52.9		ug/Kg	☼	85	80 - 120
Tetrachloroethene	6.1	U	62.1	60.9		ug/Kg	☼	98	74 - 122
Toluene	1.2	J	62.1	56.6		ug/Kg	☼	89	74 - 128
trans-1,2-Dichloroethene	6.1	U	62.1	60.3		ug/Kg	☼	97	78 - 126
trans-1,3-Dichloropropene	6.1	U	62.1	47.7		ug/Kg	☼	77	73 - 123
Trichloroethene	6.1	U	62.1	57.8		ug/Kg	☼	93	77 - 129
Trichlorofluoromethane	6.1	U	62.1	67.1		ug/Kg	☼	108	65 - 146
Vinyl chloride	6.1	U	62.1	60.5		ug/Kg	☼	97	61 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*71 - 125*
1,2-Dichloroethane-d4 (Surr)	*86*		*64 - 126*
4-Bromofluorobenzene (Surr)	*109*		*72 - 126*
Dibromofluoromethane (Surr)	*102*		*60 - 140*

Lab Sample ID: 480-181249-3 MSD
Matrix: Solid
Analysis Batch: 569897

Client Sample ID: SB-12A (4-6)
Prep Type: Total/NA
Prep Batch: 569920

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	6.1	U	62.0	54.1		ug/Kg	☼	87	77 - 121	6	30
1,1,2,2-Tetrachloroethane	6.1	U	62.0	38.2	*	ug/Kg	☼	62	80 - 120	5	30
1,1,2-Trichloroethane	6.1	U	62.0	48.2		ug/Kg	☼	78	78 - 122	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	6.1	U	62.0	61.3		ug/Kg	☼	99	60 - 140	6	30
1,1-Dichloroethane	6.1	U	62.0	55.8		ug/Kg	☼	90	73 - 126	4	30
1,1-Dichloroethene	6.1	U	62.0	58.6		ug/Kg	☼	95	59 - 125	4	30
1,2,4-Trichlorobenzene	6.1	U	62.0	33.8	*	ug/Kg	☼	55	64 - 120	11	30
1,2-Dibromo-3-Chloropropane	6.1	U	62.0	31.8	*	ug/Kg	☼	51	63 - 124	9	30
1,2-Dichlorobenzene	6.1	U	62.0	43.5	*	ug/Kg	☼	70	75 - 120	8	30
1,2-Dichloroethane	6.1	U	62.0	45.1	*	ug/Kg	☼	73	77 - 122	3	30
1,2-Dichloropropane	6.1	U	62.0	55.8		ug/Kg	☼	90	75 - 124	4	30
1,3-Dichlorobenzene	6.1	U	62.0	45.4	*	ug/Kg	☼	73	74 - 120	6	30
1,4-Dichlorobenzene	6.1	U	62.0	44.9		ug/Kg	☼	73	73 - 120	9	30
2-Butanone (MEK)	11	J	310	194	*	ug/Kg	☼	59	70 - 134	7	30
2-Hexanone	31	U	310	188		ug/Kg	☼	61	59 - 130	6	30
4-Methyl-2-pentanone (MIBK)	31	U	310	189	*	ug/Kg	☼	61	65 - 133	5	30
Acetone	42		310	192	*	ug/Kg	☼	49	61 - 137	11	30
Benzene	6.1	U	62.0	56.8		ug/Kg	☼	92	79 - 127	4	30

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

Lab Sample ID: 480-181249-3 MSD
Matrix: Solid
Analysis Batch: 569897

Client Sample ID: SB-12A (4-6)
Prep Type: Total/NA
Prep Batch: 569920

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromodichloromethane	6.1	U	62.0	50.6		ug/Kg	☼	82	80 - 122	3	30
Bromoform	6.1	U	62.0	46.5		ug/Kg	☼	75	68 - 126	1	30
Bromomethane	6.1	U	62.0	53.9		ug/Kg	☼	87	37 - 149	6	30
Carbon disulfide	6.1	U	62.0	56.9		ug/Kg	☼	92	64 - 131	5	30
Carbon tetrachloride	6.1	U	62.0	57.8		ug/Kg	☼	93	75 - 135	3	30
Chlorobenzene	2.2	J	62.0	56.8		ug/Kg	☼	88	76 - 124	4	30
Dibromochloromethane	6.1	U	62.0	49.3		ug/Kg	☼	80	76 - 125	4	30
Chloroethane	6.1	U	62.0	53.4		ug/Kg	☼	86	69 - 135	9	30
Chloroform	6.1	U	62.0	53.4		ug/Kg	☼	86	80 - 120	3	30
Chloromethane	6.1	U	62.0	52.8		ug/Kg	☼	85	63 - 127	8	30
cis-1,2-Dichloroethene	6.1	U	62.0	55.2		ug/Kg	☼	89	80 - 120	5	30
cis-1,3-Dichloropropene	6.1	U	62.0	54.2		ug/Kg	☼	87	80 - 120	1	30
Cyclohexane	6.1	U	62.0	59.2		ug/Kg	☼	96	65 - 120	6	30
Dichlorodifluoromethane	6.1	U	62.0	59.6		ug/Kg	☼	96	57 - 142	9	30
Ethylbenzene	6.1	U	62.0	52.0		ug/Kg	☼	84	80 - 120	4	30
1,2-Dibromoethane	6.1	U	62.0	47.2	*	ug/Kg	☼	76	78 - 120	2	30
Isopropylbenzene	6.1	U	62.0	49.3		ug/Kg	☼	80	72 - 120	11	30
Methyl acetate	31	U	124	86.8		ug/Kg	☼	70	55 - 136	3	30
Methyl tert-butyl ether	6.1	U	62.0	48.0		ug/Kg	☼	77	63 - 125	4	30
Methylcyclohexane	6.1	U	62.0	54.9		ug/Kg	☼	89	60 - 140	6	30
Methylene Chloride	9.7	B	62.0	63.0		ug/Kg	☼	86	61 - 127	4	30
Styrene	6.1	U	62.0	52.2		ug/Kg	☼	84	80 - 120	1	30
Tetrachloroethene	6.1	U	62.0	56.5		ug/Kg	☼	91	74 - 122	7	30
Toluene	1.2	J	62.0	54.4		ug/Kg	☼	86	74 - 128	4	30
trans-1,2-Dichloroethene	6.1	U	62.0	58.4		ug/Kg	☼	94	78 - 126	3	30
trans-1,3-Dichloropropene	6.1	U	62.0	46.4		ug/Kg	☼	75	73 - 123	3	30
Trichloroethene	6.1	U	62.0	55.5		ug/Kg	☼	90	77 - 129	4	30
Trichlorofluoromethane	6.1	U	62.0	63.5		ug/Kg	☼	102	65 - 146	5	30
Vinyl chloride	6.1	U	62.0	56.2		ug/Kg	☼	91	61 - 133	7	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*71 - 125*
1,2-Dichloroethane-d4 (Surr)	*87*		*64 - 126*
4-Bromofluorobenzene (Surr)	*111*		*72 - 126*
Dibromofluoromethane (Surr)	*103*		*60 - 140*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-569918/1-A
Matrix: Water
Analysis Batch: 569989

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 569918

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.50	U	0.50	0.18	ug/L		02/18/21 08:55	02/18/21 17:14	1
PCB-1221	0.50	U	0.50	0.18	ug/L		02/18/21 08:55	02/18/21 17:14	1
PCB-1232	0.50	U	0.50	0.18	ug/L		02/18/21 08:55	02/18/21 17:14	1
PCB-1242	0.50	U	0.50	0.18	ug/L		02/18/21 08:55	02/18/21 17:14	1
PCB-1248	0.50	U	0.50	0.18	ug/L		02/18/21 08:55	02/18/21 17:14	1
PCB-1254	0.50	U	0.50	0.25	ug/L		02/18/21 08:55	02/18/21 17:14	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 480-569918/1-A
Matrix: Water
Analysis Batch: 569989

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 569918

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	0.50	U	0.50	0.25	ug/L		02/18/21 08:55	02/18/21 17:14	1
PCB-1262	0.50	U	0.50	0.25	ug/L		02/18/21 08:55	02/18/21 17:14	1
PCB-1268	0.50	U	0.50	0.25	ug/L		02/18/21 08:55	02/18/21 17:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*58*		*39 - 121*	*02/18/21 08:55*	*02/18/21 17:14*	*1*
DCB Decachlorobiphenyl	*42*		*19 - 120*	*02/18/21 08:55*	*02/18/21 17:14*	*1*

Lab Sample ID: LCS 480-569918/2-A
Matrix: Water
Analysis Batch: 569989

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 569918

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	4.00	2.67		ug/L		67	62 - 130
PCB-1260	4.00	2.88		ug/L		72	56 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*61*		*39 - 121*
DCB Decachlorobiphenyl	*42*		*19 - 120*

Lab Sample ID: MB 480-570093/1-A
Matrix: Solid
Analysis Batch: 570176

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570093

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.23	U	0.23	0.045	mg/Kg		02/19/21 08:56	02/21/21 17:56	1
PCB-1221	0.23	U	0.23	0.045	mg/Kg		02/19/21 08:56	02/21/21 17:56	1
PCB-1232	0.23	U	0.23	0.045	mg/Kg		02/19/21 08:56	02/21/21 17:56	1
PCB-1242	0.23	U	0.23	0.045	mg/Kg		02/19/21 08:56	02/21/21 17:56	1
PCB-1248	0.23	U	0.23	0.045	mg/Kg		02/19/21 08:56	02/21/21 17:56	1
PCB-1254	0.23	U	0.23	0.11	mg/Kg		02/19/21 08:56	02/21/21 17:56	1
PCB-1260	0.23	U	0.23	0.11	mg/Kg		02/19/21 08:56	02/21/21 17:56	1
PCB-1262	0.23	U	0.23	0.11	mg/Kg		02/19/21 08:56	02/21/21 17:56	1
PCB-1268	0.23	U	0.23	0.11	mg/Kg		02/19/21 08:56	02/21/21 17:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*139*		*60 - 154*	*02/19/21 08:56*	*02/21/21 17:56*	*1*
Tetrachloro-m-xylene	*133*		*60 - 154*	*02/19/21 08:56*	*02/21/21 17:56*	*1*
DCB Decachlorobiphenyl	*219*	*	*65 - 174*	*02/19/21 08:56*	*02/21/21 17:56*	*1*
DCB Decachlorobiphenyl	*127*		*65 - 174*	*02/19/21 08:56*	*02/21/21 17:56*	*1*

Lab Sample ID: LCS 480-570093/2-A
Matrix: Solid
Analysis Batch: 570176

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570093

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	2.46	3.02		mg/Kg		122	51 - 185
PCB-1260	2.46	2.98		mg/Kg		121	61 - 184

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	141		60 - 154
Tetrachloro-m-xylene	129		60 - 154
DCB Decachlorobiphenyl	217	*	65 - 174
DCB Decachlorobiphenyl	127		65 - 174

Lab Sample ID: 480-181249-3 MS
Matrix: Solid
Analysis Batch: 570176

Client Sample ID: SB-12A (4-6)
Prep Type: Total/NA
Prep Batch: 570093

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	0.30	U	2.55	3.20		mg/Kg	☼	125	50 - 177
PCB-1260	0.30	U	2.55	3.18		mg/Kg	☼	125	33 - 200

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	128		60 - 154
Tetrachloro-m-xylene	117		60 - 154
DCB Decachlorobiphenyl	199	*	65 - 174
DCB Decachlorobiphenyl	110		65 - 174

Lab Sample ID: 480-181249-3 MSD
Matrix: Solid
Analysis Batch: 570176

Client Sample ID: SB-12A (4-6)
Prep Type: Total/NA
Prep Batch: 570093

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	0.30	U	2.58	4.20		mg/Kg	☼	163	50 - 177	27	50
PCB-1260	0.30	U	2.58	4.18		mg/Kg	☼	162	33 - 200	27	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	185	*	60 - 154
Tetrachloro-m-xylene	160	*	60 - 154
DCB Decachlorobiphenyl	283	*	65 - 174
DCB Decachlorobiphenyl	159		65 - 174

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-164111/1-A
Matrix: Water
Analysis Batch: 164133

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 164111

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.00	U	5.00	1.13	ng/L		02/18/21 15:01	02/19/21 15:57	1
Perfluoropentanoic acid (PFPeA)	2.00	U	2.00	1.08	ng/L		02/18/21 15:01	02/19/21 15:57	1
Perfluorohexanoic acid (PFHxA)	2.00	U	2.00	0.83	ng/L		02/18/21 15:01	02/19/21 15:57	1
Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.46	ng/L		02/18/21 15:01	02/19/21 15:57	1
Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.98	ng/L		02/18/21 15:01	02/19/21 15:57	1
Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.58	ng/L		02/18/21 15:01	02/19/21 15:57	1
Perfluorodecanoic acid (PFDA)	2.00	U	2.00	0.46	ng/L		02/18/21 15:01	02/19/21 15:57	1
Perfluoroundecanoic acid (PFUnA)	2.00	U	2.00	0.73	ng/L		02/18/21 15:01	02/19/21 15:57	1
Perfluorododecanoic acid (PFDoA)	2.00	U	2.00	0.46	ng/L		02/18/21 15:01	02/19/21 15:57	1
Perfluorotridecanoic acid (PFTriA)	2.00	U	2.00	0.43	ng/L		02/18/21 15:01	02/19/21 15:57	1
Perfluorotetradecanoic acid (PFTeA)	2.00	U	2.00	0.59	ng/L		02/18/21 15:01	02/19/21 15:57	1

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

Lab Sample ID: MB 200-164111/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 164133
Prep Batch: 164111

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.63	ng/L		02/18/21 15:01	02/19/21 15:57	1
Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.67	ng/L		02/18/21 15:01	02/19/21 15:57	1
Perfluoroheptanesulfonic Acid (PFHpS)	2.00	U	2.00	0.39	ng/L		02/18/21 15:01	02/19/21 15:57	1
Perfluorodecanesulfonic acid (PFDS)	2.00	U	2.00	0.48	ng/L		02/18/21 15:01	02/19/21 15:57	1
Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	0.87	ng/L		02/18/21 15:01	02/19/21 15:57	1
Perfluorooctanesulfonamide (FOSA)	2.00	U	2.00	0.57	ng/L		02/18/21 15:01	02/19/21 15:57	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	5.00	U	5.00	0.79	ng/L		02/18/21 15:01	02/19/21 15:57	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	5.00	U	5.00	0.93	ng/L		02/18/21 15:01	02/19/21 15:57	1
6:2 FTS	5.00	U	5.00	0.72	ng/L		02/18/21 15:01	02/19/21 15:57	1
8:2 FTS	2.00	U	2.00	0.66	ng/L		02/18/21 15:01	02/19/21 15:57	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFHpA	*107*		*50 - 150*	*02/18/21 15:01*	*02/19/21 15:57*	*1*
13C4 PFOA	*106*		*50 - 150*	*02/18/21 15:01*	*02/19/21 15:57*	*1*
13C5 PFNA	*101*		*50 - 150*	*02/18/21 15:01*	*02/19/21 15:57*	*1*
13C4 PFBA	*112*		*25 - 150*	*02/18/21 15:01*	*02/19/21 15:57*	*1*
13C2 PFHxA	*107*		*50 - 150*	*02/18/21 15:01*	*02/19/21 15:57*	*1*
13C2 PFDA	*95*		*50 - 150*	*02/18/21 15:01*	*02/19/21 15:57*	*1*
13C2 PFUnA	*84*		*50 - 150*	*02/18/21 15:01*	*02/19/21 15:57*	*1*
18O2 PFHxS	*109*		*50 - 150*	*02/18/21 15:01*	*02/19/21 15:57*	*1*
13C2 PFDoA	*82*		*50 - 150*	*02/18/21 15:01*	*02/19/21 15:57*	*1*
13C4 PFOS	*100*		*50 - 150*	*02/18/21 15:01*	*02/19/21 15:57*	*1*
13C8 FOSA	*88*		*25 - 150*	*02/18/21 15:01*	*02/19/21 15:57*	*1*
13C5 PFPeA	*110*		*25 - 150*	*02/18/21 15:01*	*02/19/21 15:57*	*1*
13C2 PFTeDA	*80*		*50 - 150*	*02/18/21 15:01*	*02/19/21 15:57*	*1*
d3-NMeFOSAA	*93*		*50 - 150*	*02/18/21 15:01*	*02/19/21 15:57*	*1*
d5-NEtFOSAA	*85*		*50 - 150*	*02/18/21 15:01*	*02/19/21 15:57*	*1*
M2-6:2 FTS	*110*		*25 - 150*	*02/18/21 15:01*	*02/19/21 15:57*	*1*
13C3 PFBS	*106*		*50 - 150*	*02/18/21 15:01*	*02/19/21 15:57*	*1*
M2-8:2 FTS	*106*		*25 - 150*	*02/18/21 15:01*	*02/19/21 15:57*	*1*

Lab Sample ID: LCS 200-164111/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 164133
Prep Batch: 164111

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	30.71		ng/L		77	50 - 150
Perfluoropentanoic acid (PFPeA)	40.0	31.32		ng/L		78	50 - 150
Perfluorohexanoic acid (PFHxA)	40.0	32.08		ng/L		80	70 - 130
Perfluoroheptanoic acid (PFHpA)	40.0	33.89		ng/L		85	70 - 130
Perfluorooctanoic acid (PFOA)	40.0	33.43		ng/L		84	70 - 130
Perfluorononanoic acid (PFNA)	40.0	34.52		ng/L		86	70 - 130
Perfluorodecanoic acid (PFDA)	40.0	34.25		ng/L		86	70 - 130
Perfluoroundecanoic acid (PFUnA)	40.0	39.11		ng/L		98	70 - 130
Perfluorododecanoic acid (PFDoA)	40.0	35.99		ng/L		90	70 - 130

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

Lab Sample ID: LCS 200-164111/2-A
Matrix: Water
Analysis Batch: 164133

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 164111

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorotridecanoic acid (PFTriA)	40.0	39.25		ng/L		98	70 - 130
Perfluorotetradecanoic acid (PFTeA)	40.0	40.69		ng/L		102	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	30.67		ng/L		87	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	36.4	30.66		ng/L		84	70 - 130
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	32.77		ng/L		86	50 - 150
Perfluorodecanesulfonic acid (PFDS)	38.6	31.63		ng/L		82	50 - 150
Perfluorooctanesulfonic acid (PFOS)	37.1	31.07		ng/L		84	70 - 130
Perfluorooctanesulfonamide (FOSA)	40.0	28.23		ng/L		71	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	35.04		ng/L		88	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	33.32		ng/L		83	70 - 130
6:2 FTS	37.9	30.15		ng/L		80	50 - 150
8:2 FTS	38.3	27.66		ng/L		72	50 - 150

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFHpA	*110*		*50 - 150*
13C4 PFOA	*113*		*50 - 150*
13C5 PFNA	*110*		*50 - 150*
13C4 PFBA	*116*		*25 - 150*
13C2 PFHxA	*114*		*50 - 150*
13C2 PFDA	*106*		*50 - 150*
13C2 PFUnA	*92*		*50 - 150*
18O2 PFHxS	*112*		*50 - 150*
13C2 PFDoA	*84*		*50 - 150*
13C4 PFOS	*111*		*50 - 150*
13C8 FOSA	*87*		*25 - 150*
13C5 PFPeA	*112*		*25 - 150*
13C2 PFTeDA	*87*		*50 - 150*
d3-NMeFOSAA	*90*		*50 - 150*
d5-NEtFOSAA	*91*		*50 - 150*
M2-6:2 FTS	*110*		*25 - 150*
13C3 PFBS	*105*		*50 - 150*
M2-8:2 FTS	*110*		*25 - 150*

Lab Sample ID: MB 200-164298/1-A
Matrix: Solid
Analysis Batch: 164334

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 164298

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.255	J	0.50	0.19	ug/Kg		02/25/21 15:08	02/26/21 13:11	1
Perfluoropentanoic acid (PFPeA)	0.20	U	0.20	0.018	ug/Kg		02/25/21 15:08	02/26/21 13:11	1
Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.024	ug/Kg		02/25/21 15:08	02/26/21 13:11	1

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

Lab Sample ID: MB 200-164298/1-A
Matrix: Solid
Analysis Batch: 164334

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 164298

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.023	ug/Kg		02/25/21 15:08	02/26/21 13:11	1
Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.014	ug/Kg		02/25/21 15:08	02/26/21 13:11	1
Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.020	ug/Kg		02/25/21 15:08	02/26/21 13:11	1
Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.021	ug/Kg		02/25/21 15:08	02/26/21 13:11	1
Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.024	ug/Kg		02/25/21 15:08	02/26/21 13:11	1
Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.015	ug/Kg		02/25/21 15:08	02/26/21 13:11	1
Perfluorotridecanoic acid (PFTriA)	0.20	U	0.20	0.013	ug/Kg		02/25/21 15:08	02/26/21 13:11	1
Perfluorotetradecanoic acid (PFTeA)	0.20	U	0.20	0.019	ug/Kg		02/25/21 15:08	02/26/21 13:11	1
Perfluorobutanesulfonic acid (PFBS)	0.00992	J	0.20	0.0088	ug/Kg		02/25/21 15:08	02/26/21 13:11	1
Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.015	ug/Kg		02/25/21 15:08	02/26/21 13:11	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.20	U	0.20	0.015	ug/Kg		02/25/21 15:08	02/26/21 13:11	1
Perfluorodecanesulfonic acid (PFDS)	0.20	U	0.20	0.019	ug/Kg		02/25/21 15:08	02/26/21 13:11	1
Perfluorooctanesulfonic acid (PFOS)	0.20	U	0.20	0.067	ug/Kg		02/25/21 15:08	02/26/21 13:11	1
Perfluorooctanesulfonamide (PFOSA)	0.20	U	0.20	0.0088	ug/Kg		02/25/21 15:08	02/26/21 13:11	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	U	2.00	0.034	ug/Kg		02/25/21 15:08	02/26/21 13:11	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	U	2.00	0.030	ug/Kg		02/25/21 15:08	02/26/21 13:11	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	2.00	U	2.00	0.022	ug/Kg		02/25/21 15:08	02/26/21 13:11	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	2.00	U	2.00	0.029	ug/Kg		02/25/21 15:08	02/26/21 13:11	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFHpA	*111*		*50 - 150*	*02/25/21 15:08*	*02/26/21 13:11*	*1*
13C4 PFOA	*106*		*50 - 150*	*02/25/21 15:08*	*02/26/21 13:11*	*1*
13C5 PFNA	*100*		*50 - 150*	*02/25/21 15:08*	*02/26/21 13:11*	*1*
13C4 PFBA	*75*		*25 - 150*	*02/25/21 15:08*	*02/26/21 13:11*	*1*
13C2 PFHxA	*108*		*50 - 150*	*02/25/21 15:08*	*02/26/21 13:11*	*1*
13C2 PFDA	*96*		*50 - 150*	*02/25/21 15:08*	*02/26/21 13:11*	*1*
13C2 PFUnA	*90*		*50 - 150*	*02/25/21 15:08*	*02/26/21 13:11*	*1*
18O2 PFHxS	*105*		*50 - 150*	*02/25/21 15:08*	*02/26/21 13:11*	*1*
13C2 PFDoA	*91*		*50 - 150*	*02/25/21 15:08*	*02/26/21 13:11*	*1*
13C4 PFOS	*105*		*50 - 150*	*02/25/21 15:08*	*02/26/21 13:11*	*1*
13C8 FOSA	*101*		*25 - 150*	*02/25/21 15:08*	*02/26/21 13:11*	*1*
13C5 PFPeA	*103*		*25 - 150*	*02/25/21 15:08*	*02/26/21 13:11*	*1*
13C2 PFTeDA	*77*		*50 - 150*	*02/25/21 15:08*	*02/26/21 13:11*	*1*
d3-NMeFOSAA	*87*		*50 - 150*	*02/25/21 15:08*	*02/26/21 13:11*	*1*
d5-NEtFOSAA	*93*		*50 - 150*	*02/25/21 15:08*	*02/26/21 13:11*	*1*
M2-6:2 FTS	*117*		*25 - 150*	*02/25/21 15:08*	*02/26/21 13:11*	*1*
13C3 PFBS	*108*		*50 - 150*	*02/25/21 15:08*	*02/26/21 13:11*	*1*
M2-8:2 FTS	*102*		*25 - 150*	*02/25/21 15:08*	*02/26/21 13:11*	*1*

Lab Sample ID: LCS 200-164298/2-A
Matrix: Solid
Analysis Batch: 164334

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 164298

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	2.00	2.062		ug/Kg		103	70 - 130

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

Lab Sample ID: LCS 200-164298/2-A
Matrix: Solid
Analysis Batch: 164334

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 164298

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluoropentanoic acid (PFPeA)			2.00	1.839		ug/Kg		92	70 - 130		
Perfluorohexanoic acid (PFHxA)			2.00	1.887		ug/Kg		94	70 - 130		
Perfluoroheptanoic acid (PFHpA)			2.00	1.910		ug/Kg		96	70 - 130		
Perfluorooctanoic acid (PFOA)			2.00	1.845		ug/Kg		92	70 - 130		
Perfluorononanoic acid (PFNA)			2.00	1.938		ug/Kg		97	70 - 130		
Perfluorodecanoic acid (PFDA)			2.00	1.913		ug/Kg		96	70 - 130		
Perfluoroundecanoic acid (PFUnA)			2.00	2.042		ug/Kg		102	70 - 130		
Perfluorododecanoic acid (PFDoA)			2.00	1.766		ug/Kg		88	70 - 130		
Perfluorotridecanoic acid (PFTriA)			2.00	1.930		ug/Kg		96	70 - 130		
Perfluorotetradecanoic acid (PFTeA)			2.00	2.153		ug/Kg		108	70 - 130		
Perfluorobutanesulfonic acid (PFBS)			1.77	1.740		ug/Kg		98	70 - 130		
Perfluorohexanesulfonic acid (PFHxS)			1.82	1.707		ug/Kg		94	70 - 130		
Perfluoroheptanesulfonic Acid (PFHpS)			1.90	1.779		ug/Kg		93	70 - 130		
Perfluorodecanesulfonic acid (PFDS)			1.93	1.835		ug/Kg		95	70 - 130		
Perfluorooctanesulfonic acid (PFOS)			1.86	1.804		ug/Kg		97	70 - 130		
Perfluorooctanesulfonamide (PFOSA)			2.00	1.916		ug/Kg		96	70 - 130		
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)			2.00	2.011		ug/Kg		101	70 - 130		
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)			2.00	2.036		ug/Kg		102	70 - 130		
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)			1.90	1.797	J	ug/Kg		95	70 - 130		
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)			1.92	1.592	J	ug/Kg		83	70 - 130		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFHpA	*105*		*50 - 150*
13C4 PFOA	*106*		*50 - 150*
13C5 PFNA	*99*		*50 - 150*
13C4 PFBA	*71*		*25 - 150*
13C2 PFHxA	*108*		*50 - 150*
13C2 PFDA	*94*		*50 - 150*
13C2 PFUnA	*87*		*50 - 150*
18O2 PFHxS	*106*		*50 - 150*
13C2 PFDoA	*92*		*50 - 150*
13C4 PFOS	*108*		*50 - 150*
13C8 FOSA	*97*		*25 - 150*
13C5 PFPeA	*105*		*25 - 150*
13C2 PFTeDA	*77*		*50 - 150*
d3-NMeFOSAA	*90*		*50 - 150*
d5-NEtFOSAA	*89*		*50 - 150*
M2-6:2 FTS	*106*		*25 - 150*

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

Lab Sample ID: LCS 200-164298/2-A
Matrix: Solid
Analysis Batch: 164334

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 164298

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C3 PFBS	106		50 - 150
M2-8:2 FTS	103		25 - 150

Lab Sample ID: 480-181249-3 MS
Matrix: Solid
Analysis Batch: 164334

Client Sample ID: SB-12A (4-6)
Prep Type: Total/NA
Prep Batch: 164298

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	0.59	U	2.43	2.528		ug/Kg	☼	104	70 - 130
Perfluoropentanoic acid (PFPeA)	0.24	U	2.43	2.223		ug/Kg	☼	92	70 - 130
Perfluorohexanoic acid (PFHxA)	0.24	U	2.43	2.326		ug/Kg	☼	96	70 - 130
Perfluoroheptanoic acid (PFHpA)	0.24	U	2.43	2.381		ug/Kg	☼	98	70 - 130
Perfluorooctanoic acid (PFOA)	0.046	J	2.43	2.342		ug/Kg	☼	95	70 - 130
Perfluorononanoic acid (PFNA)	0.24	U	2.43	2.365		ug/Kg	☼	97	70 - 130
Perfluorodecanoic acid (PFDA)	0.24	U	2.43	2.338		ug/Kg	☼	96	70 - 130
Perfluoroundecanoic acid (PFUnA)	0.24	U	2.43	2.384		ug/Kg	☼	98	70 - 130
Perfluorododecanoic acid (PFDoA)	0.24	U	2.43	2.094		ug/Kg	☼	86	70 - 130
Perfluorotridecanoic acid (PFTriA)	0.24	U	2.43	2.235		ug/Kg	☼	92	70 - 130
Perfluorotetradecanoic acid (PFTeA)	0.24	U	2.43	2.826		ug/Kg	☼	116	70 - 130
Perfluorobutanesulfonic acid (PFBS)	0.24	U	2.15	2.054		ug/Kg	☼	96	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	0.24	U	2.21	2.100		ug/Kg	☼	95	70 - 130
Perfluoroheptanesulfonic Acid (PFHpS)	0.24	U	2.31	2.457		ug/Kg	☼	106	70 - 130
Perfluorooctanesulfonic acid (PFOS)	0.28		2.25	2.643		ug/Kg	☼	105	70 - 130
Perfluorodecanesulfonic acid (PFDS)	0.24	U	2.34	2.468		ug/Kg	☼	105	70 - 130
Perfluorooctanesulfonamide (PFOSA)	0.013	J	2.43	2.428		ug/Kg	☼	100	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.37	U	2.43	2.708		ug/Kg	☼	112	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.18	J	2.43	2.375	J	ug/Kg	☼	91	70 - 130
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	2.37	U	2.30	2.138	J	ug/Kg	☼	93	70 - 130
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	2.37	U	2.32	1.550	J *	ug/Kg	☼	67	70 - 130

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
18O2 PFHxS	88		50 - 150
13C4 PFHpA	98		50 - 150
13C4 PFOA	95		50 - 150
13C4 PFOS	81		50 - 150
13C5 PFNA	89		50 - 150
13C4 PFBA	84		25 - 150
13C2 PFHxA	99		50 - 150

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

Lab Sample ID: 480-181249-3 MS
Matrix: Solid
Analysis Batch: 164334

Client Sample ID: SB-12A (4-6)
Prep Type: Total/NA
Prep Batch: 164298

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C2 PFDA	95		50 - 150
13C2 PFUnA	97		50 - 150
13C2 PFDoA	87		50 - 150
13C8 FOSA	80		25 - 150
13C5 PFPeA	90		25 - 150
13C2 PFTeDA	76		50 - 150
d3-NMeFOSAA	72		50 - 150
d5-NEtFOSAA	98		50 - 150
M2-6:2 FTS	104		25 - 150
M2-8:2 FTS	134		25 - 150
13C3 PFBS	87		50 - 150

Lab Sample ID: 480-181249-3 MSD
Matrix: Solid
Analysis Batch: 164334

Client Sample ID: SB-12A (4-6)
Prep Type: Total/NA
Prep Batch: 164298

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	0.59	U	2.42	2.671		ug/Kg	☼	111	70 - 130	6	20
Perfluoropentanoic acid (PFPeA)	0.24	U	2.42	2.174		ug/Kg	☼	90	70 - 130	2	20
Perfluorohexanoic acid (PFHxA)	0.24	U	2.42	2.349		ug/Kg	☼	97	70 - 130	1	20
Perfluoroheptanoic acid (PFHpA)	0.24	U	2.42	2.473		ug/Kg	☼	102	70 - 130	4	20
Perfluorooctanoic acid (PFOA)	0.046	J	2.42	2.440		ug/Kg	☼	99	70 - 130	4	20
Perfluorononanoic acid (PFNA)	0.24	U	2.42	2.356		ug/Kg	☼	97	70 - 130	0	20
Perfluorodecanoic acid (PFDA)	0.24	U	2.42	2.522		ug/Kg	☼	104	70 - 130	8	20
Perfluoroundecanoic acid (PFUnA)	0.24	U	2.42	2.518		ug/Kg	☼	104	70 - 130	5	20
Perfluorododecanoic acid (PFDoA)	0.24	U	2.42	2.263		ug/Kg	☼	94	70 - 130	8	20
Perfluorotridecanoic acid (PFTriA)	0.24	U	2.42	2.327		ug/Kg	☼	96	70 - 130	4	20
Perfluorotetradecanoic acid (PFTeA)	0.24	U	2.42	2.703		ug/Kg	☼	112	70 - 130	4	20
Perfluorobutanesulfonic acid (PFBS)	0.24	U	2.14	1.966		ug/Kg	☼	92	70 - 130	4	20
Perfluorohexanesulfonic acid (PFHxS)	0.24	U	2.20	2.205		ug/Kg	☼	100	70 - 130	5	20
Perfluoroheptanesulfonic Acid (PFHpS)	0.24	U	2.30	2.372		ug/Kg	☼	103	70 - 130	4	20
Perfluorooctanesulfonic acid (PFOS)	0.28		2.24	2.429		ug/Kg	☼	96	70 - 130	8	20
Perfluorodecanesulfonic acid (PFDS)	0.24	U	2.33	2.317		ug/Kg	☼	99	70 - 130	6	20
Perfluorooctanesulfonamide (PFOSA)	0.013	J	2.42	2.429		ug/Kg	☼	100	70 - 130	0	20
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.37	U	2.42	2.700		ug/Kg	☼	112	70 - 130	0	20
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.18	J	2.42	2.681		ug/Kg	☼	104	70 - 130	12	20
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	2.37	U	2.29	2.023	J	ug/Kg	☼	88	70 - 130	6	20
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	2.37	U	2.32	1.901	J	ug/Kg	☼	82	70 - 130	20	20

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

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
18O2 PFHxS	80		50 - 150
13C4 PFHpA	89		50 - 150
13C4 PFOA	89		50 - 150
13C4 PFOS	82		50 - 150
13C5 PFNA	92		50 - 150
13C4 PFBA	75		25 - 150
13C2 PFHxA	91		50 - 150
13C2 PFDA	89		50 - 150
13C2 PFUnA	94		50 - 150
13C2 PFDoA	82		50 - 150
13C8 FOSA	77		25 - 150
13C5 PFPeA	85		25 - 150
13C2 PFTeDA	69		50 - 150
d3-NMeFOSAA	73		50 - 150
d5-NEtFOSAA	87		50 - 150
M2-6:2 FTS	105		25 - 150
M2-8:2 FTS	119		25 - 150
13C3 PFBS	84		50 - 150

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-570015/1-A
Matrix: Water
Analysis Batch: 570190

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570015

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200	U	200	60.0	ug/L		02/19/21 09:05	02/19/21 15:31	1
Antimony	20.0	U	20.0	6.8	ug/L		02/19/21 09:05	02/19/21 15:31	1
Arsenic	15.0	U	15.0	5.6	ug/L		02/19/21 09:05	02/19/21 15:31	1
Barium	2.0	U	2.0	0.70	ug/L		02/19/21 09:05	02/19/21 15:31	1
Beryllium	2.0	U	2.0	0.30	ug/L		02/19/21 09:05	02/19/21 15:31	1
Cadmium	2.0	U	2.0	0.50	ug/L		02/19/21 09:05	02/19/21 15:31	1
Calcium	500	U	500	100	ug/L		02/19/21 09:05	02/19/21 15:31	1
Chromium	4.0	U	4.0	1.0	ug/L		02/19/21 09:05	02/19/21 15:31	1
Cobalt	4.0	U	4.0	0.63	ug/L		02/19/21 09:05	02/19/21 15:31	1
Copper	10.0	U	10.0	1.6	ug/L		02/19/21 09:05	02/19/21 15:31	1
Iron	50.0	U	50.0	19.3	ug/L		02/19/21 09:05	02/19/21 15:31	1
Lead	10.0	U	10.0	3.0	ug/L		02/19/21 09:05	02/19/21 15:31	1
Magnesium	200	U	200	43.4	ug/L		02/19/21 09:05	02/19/21 15:31	1
Manganese	1.34	J	3.0	0.40	ug/L		02/19/21 09:05	02/19/21 15:31	1
Nickel	10.0	U	10.0	1.3	ug/L		02/19/21 09:05	02/19/21 15:31	1
Potassium	500	U	500	100	ug/L		02/19/21 09:05	02/19/21 15:31	1
Selenium	25.0	U	25.0	8.7	ug/L		02/19/21 09:05	02/19/21 15:31	1
Silver	6.0	U	6.0	1.7	ug/L		02/19/21 09:05	02/19/21 15:31	1
Sodium	1000	U	1000	324	ug/L		02/19/21 09:05	02/19/21 15:31	1
Thallium	20.0	U	20.0	10.2	ug/L		02/19/21 09:05	02/19/21 15:31	1
Vanadium	5.0	U	5.0	1.5	ug/L		02/19/21 09:05	02/19/21 15:31	1
Zinc	10.0	U	10.0	1.5	ug/L		02/19/21 09:05	02/19/21 15:31	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-570015/2-A
Matrix: Water
Analysis Batch: 570190

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570015

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10000	9804		ug/L		98	80 - 120
Antimony	200	200.3		ug/L		100	80 - 120
Arsenic	200	205.3		ug/L		103	80 - 120
Barium	200	215.2		ug/L		108	80 - 120
Beryllium	200	209.3		ug/L		105	80 - 120
Cadmium	200	202.4		ug/L		101	80 - 120
Calcium	10000	9992		ug/L		100	80 - 120
Chromium	200	193.4		ug/L		97	80 - 120
Cobalt	200	194.7		ug/L		97	80 - 120
Copper	200	203.7		ug/L		102	80 - 120
Iron	10000	9508		ug/L		95	80 - 120
Lead	200	200.1		ug/L		100	80 - 120
Magnesium	10000	9759		ug/L		98	80 - 120
Manganese	200	196.2		ug/L		98	80 - 120
Nickel	200	193.5		ug/L		97	80 - 120
Potassium	10000	9680		ug/L		97	80 - 120
Selenium	200	200.0		ug/L		100	80 - 120
Silver	50.0	47.54		ug/L		95	80 - 120
Sodium	10000	9567		ug/L		96	80 - 120
Thallium	200	201.4		ug/L		101	80 - 120
Vanadium	200	196.6		ug/L		98	80 - 120
Zinc	200	195.7		ug/L		98	80 - 120

Lab Sample ID: MB 480-570033/1-A
Matrix: Solid
Analysis Batch: 570189

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570033

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9.6	U	9.6	4.2	mg/Kg		02/18/21 16:33	02/19/21 14:31	1
Antimony	14.5	U	14.5	0.39	mg/Kg		02/18/21 16:33	02/19/21 14:31	1
Arsenic	1.9	U	1.9	0.39	mg/Kg		02/18/21 16:33	02/19/21 14:31	1
Barium	0.48	U	0.48	0.11	mg/Kg		02/18/21 16:33	02/19/21 14:31	1
Beryllium	0.19	U	0.19	0.027	mg/Kg		02/18/21 16:33	02/19/21 14:31	1
Cadmium	0.19	U	0.19	0.029	mg/Kg		02/18/21 16:33	02/19/21 14:31	1
Calcium	48.2	U	48.2	3.2	mg/Kg		02/18/21 16:33	02/19/21 14:31	1
Chromium	0.48	U	0.48	0.19	mg/Kg		02/18/21 16:33	02/19/21 14:31	1
Cobalt	0.48	U	0.48	0.048	mg/Kg		02/18/21 16:33	02/19/21 14:31	1
Copper	0.96	U	0.96	0.20	mg/Kg		02/18/21 16:33	02/19/21 14:31	1
Iron	9.6	U	9.6	3.4	mg/Kg		02/18/21 16:33	02/19/21 14:31	1
Lead	0.96	U	0.96	0.23	mg/Kg		02/18/21 16:33	02/19/21 14:31	1
Magnesium	19.3	U	19.3	0.89	mg/Kg		02/18/21 16:33	02/19/21 14:31	1
Manganese	0.0791	J	0.19	0.031	mg/Kg		02/18/21 16:33	02/19/21 14:31	1
Nickel	4.8	U	4.8	0.22	mg/Kg		02/18/21 16:33	02/19/21 14:31	1
Potassium	28.9	U	28.9	19.3	mg/Kg		02/18/21 16:33	02/19/21 14:31	1
Selenium	3.9	U	3.9	0.39	mg/Kg		02/18/21 16:33	02/19/21 14:31	1
Silver	0.58	U	0.58	0.19	mg/Kg		02/18/21 16:33	02/19/21 14:31	1
Sodium	135	U	135	12.5	mg/Kg		02/18/21 16:33	02/19/21 14:31	1
Thallium	5.8	U	5.8	0.29	mg/Kg		02/18/21 16:33	02/19/21 14:31	1
Vanadium	0.48	U	0.48	0.11	mg/Kg		02/18/21 16:33	02/19/21 14:31	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-570033/1-A
Matrix: Solid
Analysis Batch: 570189

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570033

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	1.9	U	1.9	0.62	mg/Kg		02/18/21 16:33	02/19/21 14:31	1

Lab Sample ID: LCSSRM 480-570033/2-A
Matrix: Solid
Analysis Batch: 570189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570033

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8190	8839		mg/Kg		107.9	50.1 - 150.2
Antimony	110	80.94		mg/Kg		73.6	22.2 - 254.5
Arsenic	162	148.5		mg/Kg		91.7	70.4 - 130.2
Barium	138	123.9		mg/Kg		89.8	74.6 - 124.6
Beryllium	157	144.4		mg/Kg		92.0	75.2 - 125.5
Cadmium	135	124.5		mg/Kg		92.2	74.8 - 124.4
Calcium	4790	4271		mg/Kg		89.2	72.7 - 127.3
Chromium	117	104.9		mg/Kg		89.7	70.1 - 129.9
Cobalt	92.6	95.00		mg/Kg		102.6	75.1 - 125.3
Copper	143	128.9		mg/Kg		90.1	74.8 - 124.5
Iron	15100	12460		mg/Kg		82.5	37.2 - 162.9
Lead	77.6	82.38		mg/Kg		106.2	68.8 - 131.4
Magnesium	2320	2160		mg/Kg		93.1	62.1 - 137.9
Manganese	319	273.1		mg/Kg		85.6	74.9 - 125.1
Nickel	79.9	81.83		mg/Kg		102.4	70.0 - 130.2
Potassium	2050	1988		mg/Kg		97.0	59.5 - 141.0
Selenium	172	159.3		mg/Kg		92.6	68.0 - 132.6
Silver	24.7	21.66		mg/Kg		87.7	67.2 - 133.2
Sodium	137	134.3	J	mg/Kg		98.0	35.8 - 164.2
Thallium	88.0	92.79		mg/Kg		105.4	66.0 - 134.1
Vanadium	99.9	91.26		mg/Kg		91.3	67.4 - 132.1
Zinc	312	264.9		mg/Kg		84.9	69.9 - 129.8

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-181249-3 MS
Matrix: Solid
Analysis Batch: 570189

Client Sample ID: SB-12A (4-6)
Prep Type: Total/NA
Prep Batch: 570033

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	4110		2560	9616	N	mg/Kg	☼	215	75 - 125
Antimony	19.3	U	51.3	39.44		mg/Kg	☼	77	75 - 125
Arsenic	1.1	J	51.3	45.70		mg/Kg	☼	87	75 - 125
Barium	19.1		51.3	71.84		mg/Kg	☼	103	75 - 125
Beryllium	0.21	J	51.3	45.36		mg/Kg	☼	88	75 - 125
Cadmium	0.26	U	51.3	44.50		mg/Kg	☼	87	75 - 125
Calcium	3000		2560	6806	N	mg/Kg	☼	148	75 - 125
Chromium	4.6		51.3	49.26		mg/Kg	☼	87	75 - 125
Cobalt	2.2		51.3	53.26		mg/Kg	☼	100	75 - 125
Copper	1.3		51.3	46.28		mg/Kg	☼	88	75 - 125
Iron	6000		2560	10060	N	mg/Kg	☼	159	75 - 125
Lead	1.5		51.3	52.68		mg/Kg	☼	100	75 - 125
Magnesium	1230		2560	4018		mg/Kg	☼	109	75 - 125
Manganese	60.1	B	51.3	143.1	N	mg/Kg	☼	162	75 - 125
Nickel	3.4	J	51.3	54.03		mg/Kg	☼	99	75 - 125
Potassium	408		2560	3143		mg/Kg	☼	107	75 - 125
Selenium	5.1	U	51.3	44.53		mg/Kg	☼	87	75 - 125
Silver	0.77	U	12.8	10.84		mg/Kg	☼	85	75 - 125
Sodium	249		2570	3012		mg/Kg	☼	108	75 - 125
Thallium	7.7	U	51.3	50.81		mg/Kg	☼	99	75 - 125
Vanadium	11.1		51.3	59.56		mg/Kg	☼	95	75 - 125
Zinc	14.5		51.3	61.94		mg/Kg	☼	93	75 - 125

Lab Sample ID: 480-181249-3 MSD
Matrix: Solid
Analysis Batch: 570189

Client Sample ID: SB-12A (4-6)
Prep Type: Total/NA
Prep Batch: 570033

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	4110		2670	12980	N	mg/Kg	☼	333	75 - 125	30	20
Antimony	19.3	U	53.3	39.28	N	mg/Kg	☼	74	75 - 125	0	20
Arsenic	1.1	J	53.3	48.84		mg/Kg	☼	90	75 - 125	7	20
Barium	19.1		53.3	96.16	N	mg/Kg	☼	145	75 - 125	29	20
Beryllium	0.21	J	53.3	48.13		mg/Kg	☼	90	75 - 125	6	20
Cadmium	0.26	U	53.3	46.80		mg/Kg	☼	88	75 - 125	5	20
Calcium	3000		2670	7227	N	mg/Kg	☼	158	75 - 125	6	20
Chromium	4.6		53.3	56.22		mg/Kg	☼	97	75 - 125	13	20
Cobalt	2.2		53.3	56.57		mg/Kg	☼	102	75 - 125	6	20
Copper	1.3		53.3	49.90		mg/Kg	☼	91	75 - 125	8	20
Iron	6000		2670	13090	N	mg/Kg	☼	266	75 - 125	26	20
Lead	1.5		53.3	56.37		mg/Kg	☼	103	75 - 125	7	20
Magnesium	1230		2670	4790	N	mg/Kg	☼	133	75 - 125	18	20
Manganese	60.1	B	53.3	170.4	N	mg/Kg	☼	207	75 - 125	17	20
Nickel	3.4	J	53.3	58.47		mg/Kg	☼	103	75 - 125	8	20
Potassium	408		2670	4230	N	mg/Kg	☼	143	75 - 125	29	20
Selenium	5.1	U	53.3	46.68		mg/Kg	☼	88	75 - 125	5	20
Silver	0.77	U	13.3	11.37		mg/Kg	☼	85	75 - 125	5	20
Sodium	249		2670	3145		mg/Kg	☼	108	75 - 125	4	20
Thallium	7.7	U	53.3	53.06		mg/Kg	☼	100	75 - 125	4	20
Vanadium	11.1		53.3	68.55		mg/Kg	☼	108	75 - 125	14	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-181249-3 MSD
Matrix: Solid
Analysis Batch: 570189

Client Sample ID: SB-12A (4-6)
Prep Type: Total/NA
Prep Batch: 570033

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Zinc	14.5		53.3	70.02		mg/Kg	☼	104	75 - 125	12	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-570214/1-A
Matrix: Water
Analysis Batch: 570241

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570214

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		02/22/21 13:02	02/22/21 16:05	1

Lab Sample ID: LCS 480-570214/2-A
Matrix: Water
Analysis Batch: 570241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570214

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	6.67	6.87		ug/L		103	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-570452/1-A
Matrix: Solid
Analysis Batch: 570474

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570452

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	U	0.016	0.0063	mg/Kg		02/24/21 13:29	02/24/21 14:43	1

Lab Sample ID: LCSSRM 480-570452/2-A ^10
Matrix: Solid
Analysis Batch: 570474

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570452

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	27.2	30.03		mg/Kg		110.4	59.9 - 140.1

Lab Sample ID: 480-181249-3 MS
Matrix: Solid
Analysis Batch: 570474

Client Sample ID: SB-12A (4-6)
Prep Type: Total/NA
Prep Batch: 570452

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.023	U	0.307	0.338		mg/Kg	☼	110	80 - 120

Lab Sample ID: 480-181249-3 MSD
Matrix: Solid
Analysis Batch: 570474

Client Sample ID: SB-12A (4-6)
Prep Type: Total/NA
Prep Batch: 570452

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.023	U	0.380	0.430	N	mg/Kg	☼	113	80 - 120	24	20

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
*	Surrogate is outside acceptance limits.
*	MS or MSD is outside acceptance limits.
B	The analyte was found in an associated blank, as well as in the sample.
J	Indicates an estimated value.
U	Analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*	Surrogate is outside acceptance limits.
U	Analyzed for but not detected.

LCMS

Qualifier	Qualifier Description
*	MS or MSD is outside acceptance limits.
B	The analyte was found in an associated blank, as well as in the sample.
J	Indicates an estimated value.
U	Analyzed for but not detected.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Sample result is greater than the MDL but below the CRDL
N	Spiked sample recovery is not within control limits.
N	PDS exceeds control limits
U	Indicates analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Analysis Batch: 569734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181249-1	SB-12C (32-33)	Total/NA	Solid	8260C	569843
480-181249-2	SB-12C (55-56)	Total/NA	Solid	8260C	569843
480-181249-4	SB-12A (13-15)	Total/NA	Solid	8260C	569843
480-181249-6	DUP-SB (13-15)	Total/NA	Solid	8260C	569843
MB 480-569843/2-A	Method Blank	Total/NA	Solid	8260C	569843
LCS 480-569843/1-A	Lab Control Sample	Total/NA	Solid	8260C	569843

Analysis Batch: 569749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181249-5	EB-20210210	Total/NA	Water	8260C	
480-181249-7	TB-20210210	Total/NA	Water	8260C	
MB 480-569749/7	Method Blank	Total/NA	Water	8260C	
LCS 480-569749/5	Lab Control Sample	Total/NA	Water	8260C	

Prep Batch: 569843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181249-1	SB-12C (32-33)	Total/NA	Solid	5035A_L	
480-181249-2	SB-12C (55-56)	Total/NA	Solid	5035A_L	
480-181249-4	SB-12A (13-15)	Total/NA	Solid	5035A_L	
480-181249-6	DUP-SB (13-15)	Total/NA	Solid	5035A_L	
MB 480-569843/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-569843/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

Analysis Batch: 569897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181249-3	SB-12A (4-6)	Total/NA	Solid	8260C	569920
MB 480-569920/2-A	Method Blank	Total/NA	Solid	8260C	569920
LCS 480-569920/1-A	Lab Control Sample	Total/NA	Solid	8260C	569920
480-181249-3 MS	SB-12A (4-6)	Total/NA	Solid	8260C	569920
480-181249-3 MSD	SB-12A (4-6)	Total/NA	Solid	8260C	569920

Prep Batch: 569920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181249-3	SB-12A (4-6)	Total/NA	Solid	5035A_L	
MB 480-569920/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-569920/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
480-181249-3 MS	SB-12A (4-6)	Total/NA	Solid	5035A_L	
480-181249-3 MSD	SB-12A (4-6)	Total/NA	Solid	5035A_L	

GC Semi VOA

Prep Batch: 569918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181249-5	EB-20210210	Total/NA	Water	3510C	
MB 480-569918/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-569918/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 569989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181249-5	EB-20210210	Total/NA	Water	8082A	569918
MB 480-569918/1-A	Method Blank	Total/NA	Water	8082A	569918

GC Semi VOA (Continued)

Analysis Batch: 569989 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-569918/2-A	Lab Control Sample	Total/NA	Water	8082A	569918

Prep Batch: 570093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181249-1	SB-12C (32-33)	Total/NA	Solid	3550C	
480-181249-2	SB-12C (55-56)	Total/NA	Solid	3550C	
480-181249-3	SB-12A (4-6)	Total/NA	Solid	3550C	
480-181249-4	SB-12A (13-15)	Total/NA	Solid	3550C	
480-181249-6	DUP-SB (13-15)	Total/NA	Solid	3550C	
MB 480-570093/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-570093/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-181249-3 MS	SB-12A (4-6)	Total/NA	Solid	3550C	
480-181249-3 MSD	SB-12A (4-6)	Total/NA	Solid	3550C	

Analysis Batch: 570176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181249-1	SB-12C (32-33)	Total/NA	Solid	8082A	570093
480-181249-2	SB-12C (55-56)	Total/NA	Solid	8082A	570093
480-181249-3	SB-12A (4-6)	Total/NA	Solid	8082A	570093
480-181249-4	SB-12A (13-15)	Total/NA	Solid	8082A	570093
480-181249-6	DUP-SB (13-15)	Total/NA	Solid	8082A	570093
MB 480-570093/1-A	Method Blank	Total/NA	Solid	8082A	570093
LCS 480-570093/2-A	Lab Control Sample	Total/NA	Solid	8082A	570093
480-181249-3 MS	SB-12A (4-6)	Total/NA	Solid	8082A	570093
480-181249-3 MSD	SB-12A (4-6)	Total/NA	Solid	8082A	570093

LCMS

Prep Batch: 164111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181249-5	EB-20210210	Total/NA	Water	3535	
MB 200-164111/1-A	Method Blank	Total/NA	Water	3535	
LCS 200-164111/2-A	Lab Control Sample	Total/NA	Water	3535	

Analysis Batch: 164133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181249-5	EB-20210210	Total/NA	Water	537 (modified)	164111
MB 200-164111/1-A	Method Blank	Total/NA	Water	537 (modified)	164111
LCS 200-164111/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	164111

Prep Batch: 164298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181249-1	SB-12C (32-33)	Total/NA	Solid	SHAKE	
480-181249-2	SB-12C (55-56)	Total/NA	Solid	SHAKE	
480-181249-3	SB-12A (4-6)	Total/NA	Solid	SHAKE	
480-181249-4	SB-12A (13-15)	Total/NA	Solid	SHAKE	
480-181249-6	DUP-SB (13-15)	Total/NA	Solid	SHAKE	
MB 200-164298/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 200-164298/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
480-181249-3 MS	SB-12A (4-6)	Total/NA	Solid	SHAKE	
480-181249-3 MSD	SB-12A (4-6)	Total/NA	Solid	SHAKE	

LCMS

Analysis Batch: 164334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181249-1	SB-12C (32-33)	Total/NA	Solid	537 (modified)	164298
480-181249-2	SB-12C (55-56)	Total/NA	Solid	537 (modified)	164298
480-181249-3	SB-12A (4-6)	Total/NA	Solid	537 (modified)	164298
480-181249-4	SB-12A (13-15)	Total/NA	Solid	537 (modified)	164298
480-181249-6	DUP-SB (13-15)	Total/NA	Solid	537 (modified)	164298
MB 200-164298/1-A	Method Blank	Total/NA	Solid	537 (modified)	164298
LCS 200-164298/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	164298
480-181249-3 MS	SB-12A (4-6)	Total/NA	Solid	537 (modified)	164298
480-181249-3 MSD	SB-12A (4-6)	Total/NA	Solid	537 (modified)	164298

Metals

Prep Batch: 570015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181249-5	EB-20210210	Total/NA	Water	3005A	
MB 480-570015/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-570015/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 570033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181249-1	SB-12C (32-33)	Total/NA	Solid	3050B	
480-181249-2	SB-12C (55-56)	Total/NA	Solid	3050B	
480-181249-3	SB-12A (4-6)	Total/NA	Solid	3050B	
480-181249-4	SB-12A (13-15)	Total/NA	Solid	3050B	
480-181249-6	DUP-SB (13-15)	Total/NA	Solid	3050B	
MB 480-570033/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-570033/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-181249-3 MS	SB-12A (4-6)	Total/NA	Solid	3050B	
480-181249-3 MSD	SB-12A (4-6)	Total/NA	Solid	3050B	

Analysis Batch: 570189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181249-1	SB-12C (32-33)	Total/NA	Solid	6010C	570033
480-181249-2	SB-12C (55-56)	Total/NA	Solid	6010C	570033
480-181249-3	SB-12A (4-6)	Total/NA	Solid	6010C	570033
480-181249-4	SB-12A (13-15)	Total/NA	Solid	6010C	570033
480-181249-6	DUP-SB (13-15)	Total/NA	Solid	6010C	570033
MB 480-570033/1-A	Method Blank	Total/NA	Solid	6010C	570033
LCSSRM 480-570033/2-A	Lab Control Sample	Total/NA	Solid	6010C	570033
480-181249-3 MS	SB-12A (4-6)	Total/NA	Solid	6010C	570033
480-181249-3 MSD	SB-12A (4-6)	Total/NA	Solid	6010C	570033

Analysis Batch: 570190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181249-5	EB-20210210	Total/NA	Water	6010C	570015
MB 480-570015/1-A	Method Blank	Total/NA	Water	6010C	570015
LCS 480-570015/2-A	Lab Control Sample	Total/NA	Water	6010C	570015

Prep Batch: 570214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181249-5	EB-20210210	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 570214 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-570214/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-570214/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 570241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181249-5	EB-20210210	Total/NA	Water	7470A	570214
MB 480-570214/1-A	Method Blank	Total/NA	Water	7470A	570214
LCS 480-570214/2-A	Lab Control Sample	Total/NA	Water	7470A	570214

Prep Batch: 570452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181249-1	SB-12C (32-33)	Total/NA	Solid	7471B	
480-181249-2	SB-12C (55-56)	Total/NA	Solid	7471B	
480-181249-3	SB-12A (4-6)	Total/NA	Solid	7471B	
480-181249-4	SB-12A (13-15)	Total/NA	Solid	7471B	
480-181249-6	DUP-SB (13-15)	Total/NA	Solid	7471B	
MB 480-570452/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-570452/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	
480-181249-3 MS	SB-12A (4-6)	Total/NA	Solid	7471B	
480-181249-3 MSD	SB-12A (4-6)	Total/NA	Solid	7471B	

Analysis Batch: 570474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181249-1	SB-12C (32-33)	Total/NA	Solid	7471B	570452
480-181249-2	SB-12C (55-56)	Total/NA	Solid	7471B	570452
480-181249-3	SB-12A (4-6)	Total/NA	Solid	7471B	570452
480-181249-4	SB-12A (13-15)	Total/NA	Solid	7471B	570452
480-181249-6	DUP-SB (13-15)	Total/NA	Solid	7471B	570452
MB 480-570452/1-A	Method Blank	Total/NA	Solid	7471B	570452
LCSSRM 480-570452/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	570452
480-181249-3 MS	SB-12A (4-6)	Total/NA	Solid	7471B	570452
480-181249-3 MSD	SB-12A (4-6)	Total/NA	Solid	7471B	570452

General Chemistry

Analysis Batch: 569852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181249-1	SB-12C (32-33)	Total/NA	Solid	Moisture	
480-181249-2	SB-12C (55-56)	Total/NA	Solid	Moisture	
480-181249-3	SB-12A (4-6)	Total/NA	Solid	Moisture	
480-181249-4	SB-12A (13-15)	Total/NA	Solid	Moisture	
480-181249-6	DUP-SB (13-15)	Total/NA	Solid	Moisture	
480-181249-3 MS	SB-12A (4-6)	Total/NA	Solid	Moisture	
480-181249-3 MSD	SB-12A (4-6)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: New York State D.E.C.
Job ID: 480-181249-1
Project/Site: Fort Edward Landfill #558001

Client Sample ID: SB-12C (32-33)
Lab Sample ID: 480-181249-1
Date Collected: 02/11/21 11:25
Matrix: Solid
Date Received: 02/17/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	569852	02/17/21 14:48	IMZ	TAL BUF

Client Sample ID: SB-12C (32-33)
Lab Sample ID: 480-181249-1
Date Collected: 02/11/21 11:25
Matrix: Solid
Date Received: 02/17/21 10:30
Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			569843	02/17/21 10:30	WJD	TAL BUF
Total/NA	Analysis	8260C		1	569734	02/17/21 14:45	CDC	TAL BUF
Total/NA	Prep	3550C			570093	02/19/21 08:56	VXF	TAL BUF
Total/NA	Analysis	8082A		1	570176	02/21/21 18:57	NC	TAL BUF
Total/NA	Prep	SHAKE			164298	02/25/21 15:08	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	164334	02/26/21 13:52	ND	TAL BUR
Total/NA	Prep	3050B			570033	02/18/21 16:33	ADM	TAL BUF
Total/NA	Analysis	6010C		1	570189	02/19/21 14:42	AMH	TAL BUF
Total/NA	Prep	7471B			570452	02/24/21 13:29	BMB	TAL BUF
Total/NA	Analysis	7471B		1	570474	02/24/21 14:55	BMB	TAL BUF

Client Sample ID: SB-12C (55-56)
Lab Sample ID: 480-181249-2
Date Collected: 02/11/21 15:10
Matrix: Solid
Date Received: 02/17/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	569852	02/17/21 14:48	IMZ	TAL BUF

Client Sample ID: SB-12C (55-56)
Lab Sample ID: 480-181249-2
Date Collected: 02/11/21 15:10
Matrix: Solid
Date Received: 02/17/21 10:30
Percent Solids: 62.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			569843	02/17/21 10:30	WJD	TAL BUF
Total/NA	Analysis	8260C		1	569734	02/17/21 15:12	CDC	TAL BUF
Total/NA	Prep	3550C			570093	02/19/21 08:56	VXF	TAL BUF
Total/NA	Analysis	8082A		1	570176	02/21/21 19:10	NC	TAL BUF
Total/NA	Prep	SHAKE			164298	02/25/21 15:08	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	164334	02/26/21 14:00	ND	TAL BUR
Total/NA	Prep	3050B			570033	02/18/21 16:33	ADM	TAL BUF
Total/NA	Analysis	6010C		1	570189	02/19/21 14:46	AMH	TAL BUF
Total/NA	Prep	7471B			570452	02/24/21 13:29	BMB	TAL BUF
Total/NA	Analysis	7471B		1	570474	02/24/21 14:59	BMB	TAL BUF

Client Sample ID: SB-12A (4-6)
Lab Sample ID: 480-181249-3
Date Collected: 02/12/21 13:45
Matrix: Solid
Date Received: 02/17/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	569852	02/17/21 14:48	IMZ	TAL BUF

Client Sample ID: SB-12A (4-6)
Lab Sample ID: 480-181249-3
Date Collected: 02/12/21 13:45
Matrix: Solid
Date Received: 02/17/21 10:30
Percent Solids: 80.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			569920	02/18/21 09:16	WJD	TAL BUF
Total/NA	Analysis	8260C		1	569897	02/18/21 11:39	CDC	TAL BUF
Total/NA	Prep	3550C			570093	02/19/21 08:56	VXF	TAL BUF
Total/NA	Analysis	8082A		1	570176	02/21/21 18:45	NC	TAL BUF
Total/NA	Prep	SHAKE			164298	02/25/21 15:08	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	164334	02/26/21 14:09	ND	TAL BUR
Total/NA	Prep	3050B			570033	02/18/21 16:33	ADM	TAL BUF
Total/NA	Analysis	6010C		1	570189	02/19/21 14:50	AMH	TAL BUF
Total/NA	Prep	7471B			570452	02/24/21 13:29	BMB	TAL BUF
Total/NA	Analysis	7471B		1	570474	02/24/21 15:00	BMB	TAL BUF

Client Sample ID: SB-12A (13-15)
Lab Sample ID: 480-181249-4
Date Collected: 02/12/21 14:16
Matrix: Solid
Date Received: 02/17/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	569852	02/17/21 14:48	IMZ	TAL BUF

Client Sample ID: SB-12A (13-15)
Lab Sample ID: 480-181249-4
Date Collected: 02/12/21 14:16
Matrix: Solid
Date Received: 02/17/21 10:30
Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			569843	02/17/21 10:30	WJD	TAL BUF
Total/NA	Analysis	8260C		1	569734	02/17/21 15:38	CDC	TAL BUF
Total/NA	Prep	3550C			570093	02/19/21 08:56	VXF	TAL BUF
Total/NA	Analysis	8082A		1	570176	02/21/21 19:22	NC	TAL BUF
Total/NA	Prep	SHAKE			164298	02/25/21 15:08	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	164334	02/26/21 14:34	ND	TAL BUR
Total/NA	Prep	3050B			570033	02/18/21 16:33	ADM	TAL BUF
Total/NA	Analysis	6010C		1	570189	02/19/21 15:20	AMH	TAL BUF
Total/NA	Prep	7471B			570452	02/24/21 13:29	BMB	TAL BUF
Total/NA	Analysis	7471B		1	570474	02/24/21 15:04	BMB	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Job ID: 480-181249-1
Project/Site: Fort Edward Landfill #558001

Client Sample ID: EB-20210210
Lab Sample ID: 480-181249-5
Date Collected: 02/10/21 11:00
Matrix: Water
Date Received: 02/17/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	569749	02/17/21 12:54	CRL	TAL BUF
Total/NA	Prep	3510C			569918	02/18/21 08:55	JMP	TAL BUF
Total/NA	Analysis	8082A		1	569989	02/18/21 21:12	NC	TAL BUF
Total/NA	Prep	3535			164111	02/18/21 15:01	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	164133	02/19/21 16:55	ND	TAL BUR
Total/NA	Prep	3005A			570015	02/19/21 09:05	ADM	TAL BUF
Total/NA	Analysis	6010C		1	570190	02/19/21 15:38	AMH	TAL BUF
Total/NA	Prep	7470A			570214	02/22/21 13:02	BMB	TAL BUF
Total/NA	Analysis	7470A		1	570241	02/22/21 16:16	BMB	TAL BUF

Client Sample ID: DUP-SB (13-15)
Lab Sample ID: 480-181249-6
Date Collected: 02/12/21 14:16
Matrix: Solid
Date Received: 02/17/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	569852	02/17/21 14:48	IMZ	TAL BUF

Client Sample ID: DUP-SB (13-15)
Lab Sample ID: 480-181249-6
Date Collected: 02/12/21 14:16
Matrix: Solid
Date Received: 02/17/21 10:30
Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			569843	02/17/21 10:30	WJD	TAL BUF
Total/NA	Analysis	8260C		1	569734	02/17/21 16:04	CDC	TAL BUF
Total/NA	Prep	3550C			570093	02/19/21 08:56	VXF	TAL BUF
Total/NA	Analysis	8082A		1	570176	02/21/21 19:34	NC	TAL BUF
Total/NA	Prep	SHAKE			164298	02/25/21 15:08	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	164334	02/26/21 14:42	ND	TAL BUR
Total/NA	Prep	3050B			570033	02/18/21 16:33	ADM	TAL BUF
Total/NA	Analysis	6010C		1	570189	02/19/21 15:23	AMH	TAL BUF
Total/NA	Prep	7471B			570452	02/24/21 13:29	BMB	TAL BUF
Total/NA	Analysis	7471B		1	570474	02/24/21 15:05	BMB	TAL BUF

Client Sample ID: TB-20210210
Lab Sample ID: 480-181249-7
Date Collected: 02/10/21 00:00
Matrix: Water
Date Received: 02/17/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	569749	02/17/21 13:18	CRL	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = Eurofins TestAmerica, Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: New York State D.E.C. Job ID: 480-181249-1
Project/Site: Fort Edward Landfill #558001

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins TestAmerica, Burlington

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10391	04-01-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
537 (modified)	3535	Water	6:2 FTS
537 (modified)	3535	Water	8:2 FTS
537 (modified)	3535	Water	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)
537 (modified)	3535	Water	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)
537 (modified)	3535	Water	Perfluorobutanesulfonic acid (PFBS)
537 (modified)	3535	Water	Perfluorobutanoic acid (PFBA)
537 (modified)	3535	Water	Perfluorodecanesulfonic acid (PFDS)
537 (modified)	3535	Water	Perfluorodecanoic acid (PFDA)
537 (modified)	3535	Water	Perfluorododecanoic acid (PFDoA)
537 (modified)	3535	Water	Perfluoroheptanesulfonic Acid (PFHpS)
537 (modified)	3535	Water	Perfluoroheptanoic acid (PFHpA)
537 (modified)	3535	Water	Perfluorohexanesulfonic acid (PFHxS)
537 (modified)	3535	Water	Perfluorohexanoic acid (PFHxA)
537 (modified)	3535	Water	Perfluorononanoic acid (PFNA)
537 (modified)	3535	Water	Perfluorooctanesulfonamide (FOSA)
537 (modified)	3535	Water	Perfluorooctanesulfonic acid (PFOS)
537 (modified)	3535	Water	Perfluorooctanoic acid (PFOA)
537 (modified)	3535	Water	Perfluoropentanoic acid (PFPeA)
537 (modified)	3535	Water	Perfluorotetradecanoic acid (PFTeA)
537 (modified)	3535	Water	Perfluorotridecanoic acid (PFTriA)
537 (modified)	3535	Water	Perfluoroundecanoic acid (PFUnA)
537 (modified)	SHAKE	Solid	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)
537 (modified)	SHAKE	Solid	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)
537 (modified)	SHAKE	Solid	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)
537 (modified)	SHAKE	Solid	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)
537 (modified)	SHAKE	Solid	Perfluorobutanesulfonic acid (PFBS)
537 (modified)	SHAKE	Solid	Perfluorobutanoic acid (PFBA)
537 (modified)	SHAKE	Solid	Perfluorodecanesulfonic acid (PFDS)
537 (modified)	SHAKE	Solid	Perfluorodecanoic acid (PFDA)
537 (modified)	SHAKE	Solid	Perfluorododecanoic acid (PFDoA)

Laboratory: Eurofins TestAmerica, Burlington (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10391	04-01-21

537 (modified)	SHAKE	Solid	Perfluoroheptanesulfonic Acid (PFHpS)
537 (modified)	SHAKE	Solid	Perfluoroheptanoic acid (PFHpA)
537 (modified)	SHAKE	Solid	Perfluorohexanesulfonic acid (PFHxS)
537 (modified)	SHAKE	Solid	Perfluorohexanoic acid (PFHxA)
537 (modified)	SHAKE	Solid	Perfluorononanoic acid (PFNA)
537 (modified)	SHAKE	Solid	Perfluorooctanesulfonamide (PFOSA)
537 (modified)	SHAKE	Solid	Perfluorooctanesulfonic acid (PFOS)
537 (modified)	SHAKE	Solid	Perfluorooctanoic acid (PFOA)
537 (modified)	SHAKE	Solid	Perfluoropentanoic acid (PFPeA)
537 (modified)	SHAKE	Solid	Perfluorotetradecanoic acid (PFTeA)
537 (modified)	SHAKE	Solid	Perfluorotridecanoic acid (PFTriA)
537 (modified)	SHAKE	Solid	Perfluoroundecanoic acid (PFUnA)

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): ZB-624 (30) ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
SB-12C (32-33)	480-181249-1	104	97	98	109
SB-12C (55-56)	480-181249-2	109	91	140 *	64 *
SB-12A (4-6)	480-181249-3	111	99	98	106
SB-12A (13-15)	480-181249-4	105	97	100	108
DUP-SB (13-15)	480-181249-6	110	100	99	107
	MB 480-569843/2-A	105	98	98	111
	MB 480-569920/2-A	105	99	98	108
	LCS 480-569843/1-A	105	98	99	113
	LCS 480-569920/1-A	101	96	97	110
SB-12A (4-6) MS	480-181249-3 MS	102	86	100	109
SB-12A (4-6) MSD	480-181249-3 MSD	103	87	100	111

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	60-140
DCA = 1,2-Dichloroethane-d4 (Surr)	64-126
TOL = Toluene-d8 (Surr)	71-125
BFB = 4-Bromofluorobenzene (Surr)	72-126

Column to be used to flag recovery values

FORM II 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): ZB-624 (30) ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
EB-20210210	480-181249-5	94	89	100	89
TB-20210210	480-181249-7	99	95	101	98
	MB 480-569749/7	97	94	101	97
	LCS 480-569749/5	97	92	101	93

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	75-123
DCA = 1,2-Dichloroethane-d4 (Surr)	77-120
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	73-120

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Matrix: Water Level: Low Lab File ID: L6302.D

Lab ID: LCS 480-569749/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	26.0	104	73-126	
1,1,2,2-Tetrachloroethane	25.0	26.5	106	76-120	
1,1,2-Trichloroethane	25.0	26.7	107	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	27.0	108	61-148	
1,1-Dichloroethane	25.0	26.7	107	77-120	
1,1-Dichloroethene	25.0	26.9	108	66-127	
1,2,4-Trichlorobenzene	25.0	26.8	107	79-122	
1,2-Dibromo-3-Chloropropane	25.0	24.5	98	56-134	
1,2-Dichlorobenzene	25.0	26.3	105	80-124	
1,2-Dichloroethane	25.0	24.5	98	75-120	
1,2-Dichloropropane	25.0	27.5	110	76-120	
1,3-Dichlorobenzene	25.0	26.2	105	77-120	
1,4-Dichlorobenzene	25.0	25.9	104	80-120	
2-Butanone (MEK)	125	112	90	57-140	
2-Hexanone	125	122	98	65-127	
4-Methyl-2-pentanone (MIBK)	125	123	99	71-125	
Acetone	125	106	85	56-142	
Benzene	25.0	26.6	106	71-124	
Bromodichloromethane	25.0	26.8	107	80-122	
Bromoform	25.0	26.5	106	61-132	
Bromomethane	25.0	27.3	109	55-144	
Carbon disulfide	25.0	28.6	115	59-134	
Carbon tetrachloride	25.0	25.4	102	72-134	
Chlorobenzene	25.0	25.8	103	80-120	
Dibromochloromethane	25.0	26.3	105	75-125	
Chloroethane	25.0	27.8	111	69-136	
Chloroform	25.0	24.4	98	73-127	
Chloromethane	25.0	24.9	100	68-124	
cis-1,2-Dichloroethene	25.0	26.6	106	74-124	
cis-1,3-Dichloropropene	25.0	27.7	111	74-124	
Cyclohexane	25.0	25.8	103	59-135	
Dichlorodifluoromethane	25.0	21.7	87	59-135	
Ethylbenzene	25.0	26.6	107	77-123	
1,2-Dibromoethane	25.0	25.8	103	77-120	
Isopropylbenzene	25.0	27.5	110	77-122	
Methyl acetate	50.0	46.4	93	74-133	
Methyl tert-butyl ether	25.0	26.8	107	77-120	
Methylcyclohexane	25.0	27.5	110	68-134	
Methylene Chloride	25.0	26.9	108	75-124	
Styrene	25.0	27.3	109	80-120	
Tetrachloroethene	25.0	26.0	104	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Matrix: Water Level: Low Lab File ID: L6302.D

Lab ID: LCS 480-569749/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	26.9	107	80-122	
trans-1,2-Dichloroethene	25.0	27.9	112	73-127	
trans-1,3-Dichloropropene	25.0	27.6	110	80-120	
Trichloroethene	25.0	26.8	107	74-123	
Trichlorofluoromethane	25.0	23.9	96	62-150	
Vinyl chloride	25.0	28.4	114	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F0659.D

Lab ID: LCS 480-569843/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	50.0	49.9	100	77-121	
1,1,2,2-Tetrachloroethane	50.0	49.1	98	80-120	
1,1,2-Trichloroethane	50.0	51.8	104	78-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	58.5	117	60-140	
1,1-Dichloroethane	50.0	52.6	105	73-126	
1,1-Dichloroethene	50.0	53.8	108	59-125	
1,2,4-Trichlorobenzene	50.0	50.3	101	64-120	
1,2-Dibromo-3-Chloropropane	50.0	45.9	92	63-124	
1,2-Dichlorobenzene	50.0	49.2	98	75-120	
1,2-Dichloroethane	50.0	47.2	94	77-122	
1,2-Dichloropropane	50.0	55.7	111	75-124	
1,3-Dichlorobenzene	50.0	49.0	98	74-120	
1,4-Dichlorobenzene	50.0	49.3	99	73-120	
2-Butanone (MEK)	250	278	111	70-134	
2-Hexanone	250	273	109	59-130	
4-Methyl-2-pentanone (MIBK)	250	264	106	65-133	
Acetone	250	258	103	61-137	
Benzene	50.0	53.7	107	79-127	
Bromodichloromethane	50.0	50.2	100	80-122	
Bromoform	50.0	56.4	113	68-126	
Bromomethane	50.0	44.9	90	37-149	
Carbon disulfide	50.0	54.6	109	64-131	
Carbon tetrachloride	50.0	54.7	109	75-135	
Chlorobenzene	50.0	54.4	109	76-124	
Dibromochloromethane	50.0	54.0	108	76-125	
Chloroethane	50.0	46.6	93	69-135	
Chloroform	50.0	50.0	100	80-120	
Chloromethane	50.0	45.6	91	63-127	
cis-1,2-Dichloroethene	50.0	53.2	106	81-120	
cis-1,3-Dichloropropene	50.0	56.2	112	80-120	
Cyclohexane	50.0	58.3	117	65-120	
Dichlorodifluoromethane	50.0	55.0	110	57-142	
Ethylbenzene	50.0	51.1	102	80-120	
1,2-Dibromoethane	50.0	54.7	109	78-120	
Isopropylbenzene	50.0	50.3	101	72-120	
Methyl acetate	100	107	107	55-136	
Methyl tert-butyl ether	50.0	51.8	104	63-125	
Methylcyclohexane	50.0	59.5	119	60-140	
Methylene Chloride	50.0	52.6	105	61-127	
Styrene	50.0	54.8	110	80-120	
Tetrachloroethene	50.0	57.3	115	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F0659.D

Lab ID: LCS 480-569843/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Toluene	50.0	50.7	101	74-128	
trans-1,2-Dichloroethene	50.0	53.9	108	78-126	
trans-1,3-Dichloropropene	50.0	51.3	103	73-123	
Trichloroethene	50.0	53.7	107	77-129	
Trichlorofluoromethane	50.0	53.3	107	65-146	
Vinyl chloride	50.0	48.7	97	61-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F0687.D

Lab ID: LCS 480-569920/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	50.0	50.3	101	77-121	
1,1,2,2-Tetrachloroethane	50.0	50.5	101	80-120	
1,1,2-Trichloroethane	50.0	51.9	104	78-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	58.9	118	60-140	
1,1-Dichloroethane	50.0	51.8	104	73-126	
1,1-Dichloroethene	50.0	55.3	111	59-125	
1,2,4-Trichlorobenzene	50.0	51.3	103	64-120	
1,2-Dibromo-3-Chloropropane	50.0	47.9	96	63-124	
1,2-Dichlorobenzene	50.0	50.0	100	75-120	
1,2-Dichloroethane	50.0	46.5	93	77-122	
1,2-Dichloropropane	50.0	54.0	108	75-124	
1,3-Dichlorobenzene	50.0	49.8	100	74-120	
1,4-Dichlorobenzene	50.0	49.3	99	73-120	
2-Butanone (MEK)	250	282	113	70-134	
2-Hexanone	250	272	109	59-130	
4-Methyl-2-pentanone (MIBK)	250	268	107	65-133	
Acetone	250	261	105	61-137	
Benzene	50.0	53.9	108	79-127	
Bromodichloromethane	50.0	50.8	102	80-122	
Bromoform	50.0	57.0	114	68-126	
Bromomethane	50.0	46.6	93	37-149	
Carbon disulfide	50.0	55.4	111	64-131	
Carbon tetrachloride	50.0	55.5	111	75-135	
Chlorobenzene	50.0	53.9	108	76-124	
Dibromochloromethane	50.0	53.9	108	76-125	
Chloroethane	50.0	45.0	90	69-135	
Chloroform	50.0	50.2	100	80-120	
Chloromethane	50.0	45.1	90	63-127	
cis-1,2-Dichloroethene	50.0	53.2	106	81-120	
cis-1,3-Dichloropropene	50.0	55.6	111	80-120	
Cyclohexane	50.0	57.6	115	65-120	
Dichlorodifluoromethane	50.0	51.7	103	57-142	
Ethylbenzene	50.0	51.2	102	80-120	
1,2-Dibromoethane	50.0	54.2	108	78-120	
Isopropylbenzene	50.0	51.2	102	72-120	
Methyl acetate	100	107	107	55-136	
Methyl tert-butyl ether	50.0	52.1	104	63-125	
Methylcyclohexane	50.0	59.6	119	60-140	
Methylene Chloride	50.0	53.6	107	61-127	
Styrene	50.0	53.9	108	80-120	
Tetrachloroethene	50.0	57.2	114	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F0687.D

Lab ID: LCS 480-569920/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Toluene	50.0	51.3	103	74-128	
trans-1,2-Dichloroethene	50.0	54.8	110	78-126	
trans-1,3-Dichloropropene	50.0	50.3	101	73-123	
Trichloroethene	50.0	52.7	105	77-129	
Trichlorofluoromethane	50.0	54.6	109	65-146	
Vinyl chloride	50.0	49.5	99	61-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F0691.D

Lab ID: 480-181249-3 MS Client ID: SB-12A (4-6) MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	62.1	6.1 U	57.7	93	77-121	
1,1,2,2-Tetrachloroethane	62.1	6.1 U	40.2	65	80-120	*
1,1,2-Trichloroethane	62.1	6.1 U	48.7	78	78-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	62.1	6.1 U	64.9	104	60-140	
1,1-Dichloroethane	62.1	6.1 U	58.1	94	73-126	
1,1-Dichloroethene	62.1	6.1 U	60.8	98	59-125	
1,2,4-Trichlorobenzene	62.1	6.1 U	37.6	61	64-120	*
1,2-Dibromo-3-Chloropropane	62.1	6.1 U	34.9	56	63-124	*
1,2-Dichlorobenzene	62.1	6.1 U	47.2	76	75-120	
1,2-Dichloroethane	62.1	6.1 U	46.5	75	77-122	*
1,2-Dichloropropane	62.1	6.1 U	57.9	93	75-124	
1,3-Dichlorobenzene	62.1	6.1 U	48.3	78	74-120	
1,4-Dichlorobenzene	62.1	6.1 U	49.0	79	73-120	
2-Butanone (MEK)	311	11 J	208	64	70-134	*
2-Hexanone	311	31 U	199	64	59-130	
4-Methyl-2-pentanone (MIBK)	311	31 U	199	64	65-133	*
Acetone	311	42	215	56	61-137	*
Benzene	62.1	6.1 U	59.0	95	79-127	
Bromodichloromethane	62.1	6.1 U	52.3	84	80-122	
Bromoform	62.1	6.1 U	45.9	74	68-126	
Bromomethane	62.1	6.1 U	57.2	92	37-149	
Carbon disulfide	62.1	6.1 U	60.0	97	64-131	
Carbon tetrachloride	62.1	6.1 U	59.7	96	75-135	
Chlorobenzene	62.1	2.2 J	58.9	91	76-124	
Dibromochloromethane	62.1	6.1 U	51.5	83	76-125	
Chloroethane	62.1	6.1 U	58.4	94	69-135	
Chloroform	62.1	6.1 U	55.0	89	80-120	
Chloromethane	62.1	6.1 U	57.4	92	63-127	
cis-1,2-Dichloroethene	62.1	6.1 U	58.0	93	80-120	
cis-1,3-Dichloropropene	62.1	6.1 U	55.0	89	80-120	
Cyclohexane	62.1	6.1 U	63.1	102	65-120	
Dichlorodifluoromethane	62.1	6.1 U	64.9	105	57-142	
Ethylbenzene	62.1	6.1 U	53.9	87	80-120	
1,2-Dibromoethane	62.1	6.1 U	48.0	77	78-120	*
Isopropylbenzene	62.1	6.1 U	55.0	89	72-120	
Methyl acetate	124	31 U	89.5	72	55-136	
Methyl tert-butyl ether	62.1	6.1 U	50.1	81	63-125	
Methylcyclohexane	62.1	6.1 U	58.1	94	60-140	
Methylene Chloride	62.1	9.7	65.6	90	61-127	
Styrene	62.1	6.1 U	52.9	85	80-120	
Tetrachloroethene	62.1	6.1 U	60.9	98	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F0691.D

Lab ID: 480-181249-3 MS Client ID: SB-12A (4-6) MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Toluene	62.1	1.2 J	56.6	89	74-128	
trans-1,2-Dichloroethene	62.1	6.1 U	60.3	97	78-126	
trans-1,3-Dichloropropene	62.1	6.1 U	47.7	77	73-123	
Trichloroethene	62.1	6.1 U	57.8	93	77-129	
Trichlorofluoromethane	62.1	6.1 U	67.1	108	65-146	
Vinyl chloride	62.1	6.1 U	60.5	97	61-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F0692.D

Lab ID: 480-181249-3 MSD Client ID: SB-12A (4-6) MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	62.0	54.1	87	6	30	77-121	
1,1,2,2-Tetrachloroethane	62.0	38.2	62	5	30	80-120	*
1,1,2-Trichloroethane	62.0	48.2	78	1	30	78-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	62.0	61.3	99	6	30	60-140	
1,1-Dichloroethane	62.0	55.8	90	4	30	73-126	
1,1-Dichloroethene	62.0	58.6	95	4	30	59-125	
1,2,4-Trichlorobenzene	62.0	33.8	55	11	30	64-120	*
1,2-Dibromo-3-Chloropropane	62.0	31.8	51	9	30	63-124	*
1,2-Dichlorobenzene	62.0	43.5	70	8	30	75-120	*
1,2-Dichloroethane	62.0	45.1	73	3	30	77-122	*
1,2-Dichloropropane	62.0	55.8	90	4	30	75-124	
1,3-Dichlorobenzene	62.0	45.4	73	6	30	74-120	*
1,4-Dichlorobenzene	62.0	44.9	73	9	30	73-120	
2-Butanone (MEK)	310	194	59	7	30	70-134	*
2-Hexanone	310	188	61	6	30	59-130	
4-Methyl-2-pentanone (MIBK)	310	189	61	5	30	65-133	*
Acetone	310	192	49	11	30	61-137	*
Benzene	62.0	56.8	92	4	30	79-127	
Bromodichloromethane	62.0	50.6	82	3	30	80-122	
Bromoform	62.0	46.5	75	1	30	68-126	
Bromomethane	62.0	53.9	87	6	30	37-149	
Carbon disulfide	62.0	56.9	92	5	30	64-131	
Carbon tetrachloride	62.0	57.8	93	3	30	75-135	
Chlorobenzene	62.0	56.8	88	4	30	76-124	
Dibromochloromethane	62.0	49.3	80	4	30	76-125	
Chloroethane	62.0	53.4	86	9	30	69-135	
Chloroform	62.0	53.4	86	3	30	80-120	
Chloromethane	62.0	52.8	85	8	30	63-127	
cis-1,2-Dichloroethene	62.0	55.2	89	5	30	80-120	
cis-1,3-Dichloropropene	62.0	54.2	87	1	30	80-120	
Cyclohexane	62.0	59.2	96	6	30	65-120	
Dichlorodifluoromethane	62.0	59.6	96	9	30	57-142	
Ethylbenzene	62.0	52.0	84	4	30	80-120	
1,2-Dibromoethane	62.0	47.2	76	2	30	78-120	*
Isopropylbenzene	62.0	49.3	80	11	30	72-120	
Methyl acetate	124	86.8	70	3	30	55-136	
Methyl tert-butyl ether	62.0	48.0	77	4	30	63-125	
Methylcyclohexane	62.0	54.9	89	6	30	60-140	
Methylene Chloride	62.0	63.0	86	4	30	61-127	
Styrene	62.0	52.2	84	1	30	80-120	
Tetrachloroethene	62.0	56.5	91	7	30	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F0692.D

Lab ID: 480-181249-3 MSD Client ID: SB-12A (4-6) MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Toluene	62.0	54.4	86	4	30	74-128	
trans-1,2-Dichloroethene	62.0	58.4	94	3	30	78-126	
trans-1,3-Dichloropropene	62.0	46.4	75	3	30	73-123	
Trichloroethene	62.0	55.5	90	4	30	77-129	
Trichlorofluoromethane	62.0	63.5	102	5	30	65-146	
Vinyl chloride	62.0	56.2	91	7	30	61-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab File ID: F0662.D Lab Sample ID: MB 480-569843/2-A

Matrix: Solid Heated Purge:(Y/N) Y

Instrument ID: HP5973F Date Analyzed: 02/17/2021 11:58

GC Column: ZB-624 (30) VOA ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-569843/1-A	F0659.D	02/17/2021 10:38
SB-12C (32-33)	480-181249-1	F0664.D	02/17/2021 14:45
SB-12C (55-56)	480-181249-2	F0665.D	02/17/2021 15:12
SB-12A (13-15)	480-181249-4	F0666.D	02/17/2021 15:38
DUP-SB (13-15)	480-181249-6	F0667.D	02/17/2021 16:04

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab File ID: L6304.D Lab Sample ID: MB 480-569749/7

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: HP5977L Date Analyzed: 02/17/2021 12:19

GC Column: ZB-624 (30) VOA ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-569749/5	L6302.D	02/17/2021 11:29
EB-20210210	480-181249-5	L6305.D	02/17/2021 12:54
TB-20210210	480-181249-7	L6306.D	02/17/2021 13:18

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab File ID: F0689.D Lab Sample ID: MB 480-569920/2-A

Matrix: Solid Heated Purge:(Y/N) Y

Instrument ID: HP5973F Date Analyzed: 02/18/2021 11:12

GC Column: ZB-624 (30) VOA ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-569920/1-A	F0687.D	02/18/2021 10:19
SB-12A (4-6)	480-181249-3	F0690.D	02/18/2021 11:39
SB-12A (4-6) MS	480-181249-3 MS	F0691.D	02/18/2021 12:05
SB-12A (4-6) MSD	480-181249-3 MSD	F0692.D	02/18/2021 12:31

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab File ID: F0407.D BFB Injection Date: 02/04/2021

Instrument ID: HP5973F BFB Injection Time: 12:02

Analysis Batch No.: 568392

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	24.2	
75	30.0 - 60.0 % of mass 95	57.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.6	
173	Less than 2.0 % of mass 174	0.8	(0.9) 1
174	Greater than 50% of mass 95	87.0	
175	5.0 - 9.0 % of mass 174	6.7	(7.7) 1
176	95.0 - 101.0 % of mass 174	87.6	(100.6) 1
177	5.0 - 9.0 % of mass 176	5.4	(6.2) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-568392/4	F0409.D	02/04/2021	12:55
	IC 480-568392/5	F0410.D	02/04/2021	13:21
	IC 480-568392/6	F0411.D	02/04/2021	13:48
	IC 480-568392/7	F0412.D	02/04/2021	14:14
	ICIS 480-568392/8	F0413.D	02/04/2021	14:41
	IC 480-568392/9	F0414.D	02/04/2021	15:07
	IC 480-568392/10	F0415.D	02/04/2021	15:34
	ICV 480-568392/22	F0427.D	02/04/2021	20:52

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab File ID: F0656.D BFB Injection Date: 02/17/2021

Instrument ID: HP5973F BFB Injection Time: 09:14

Analysis Batch No.: 569734

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.2	
75	30.0 - 60.0 % of mass 95	51.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.4	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	91.3	
175	5.0 - 9.0 % of mass 174	6.7	(7.4) 1
176	95.0 - 101.0 % of mass 174	91.9	(100.6) 1
177	5.0 - 9.0 % of mass 176	7.3	(7.9) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-569734/3	F0657.D	02/17/2021	9:41
	LCS 480-569843/1-A	F0659.D	02/17/2021	10:38
	MB 480-569843/2-A	F0662.D	02/17/2021	11:58
SB-12C (32-33)	480-181249-1	F0664.D	02/17/2021	14:45
SB-12C (55-56)	480-181249-2	F0665.D	02/17/2021	15:12
SB-12A (13-15)	480-181249-4	F0666.D	02/17/2021	15:38
DUP-SB (13-15)	480-181249-6	F0667.D	02/17/2021	16:04

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab File ID: F0684.D BFB Injection Date: 02/18/2021

Instrument ID: HP5973F BFB Injection Time: 08:58

Analysis Batch No.: 569897

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.0	
75	30.0 - 60.0 % of mass 95	52.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.5	
173	Less than 2.0 % of mass 174	0.5	(0.6) 1
174	Greater than 50% of mass 95	93.2	
175	5.0 - 9.0 % of mass 174	6.5	(6.9) 1
176	95.0 - 101.0 % of mass 174	91.0	(97.6) 1
177	5.0 - 9.0 % of mass 176	5.9	(6.5) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-569897/3	F0685.D	02/18/2021	9:26
	LCS 480-569920/1-A	F0687.D	02/18/2021	10:19
	MB 480-569920/2-A	F0689.D	02/18/2021	11:12
SB-12A (4-6)	480-181249-3	F0690.D	02/18/2021	11:39
SB-12A (4-6) MS	480-181249-3 MS	F0691.D	02/18/2021	12:05
SB-12A (4-6) MSD	480-181249-3 MSD	F0692.D	02/18/2021	12:31

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab File ID: L5847.D BFB Injection Date: 01/18/2021

Instrument ID: HP5977L BFB Injection Time: 14:17

Analysis Batch No.: 566434

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.2	
75	30.0 - 60.0 % of mass 95	51.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.2	(0.2) 1
174	Greater than 50% of mass 95	83.5	
175	5.0 - 9.0 % of mass 174	6.5	(7.8) 1
176	95.0 - 101.0 % of mass 174	80.1	(95.9) 1
177	5.0 - 9.0 % of mass 176	5.3	(6.6) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-566434/5	L5849.D	01/18/2021	15:08
	IC 480-566434/6	L5850.D	01/18/2021	15:32
	IC 480-566434/7	L5851.D	01/18/2021	15:57
	IC 480-566434/8	L5852.D	01/18/2021	16:22
	IC 480-566434/9	L5853.D	01/18/2021	16:47
	ICIS 480-566434/10	L5854.D	01/18/2021	17:12
	IC 480-566434/11	L5855.D	01/18/2021	17:37
	IC 480-566434/12	L5856.D	01/18/2021	18:02
	ICV 480-566434/26	L5870.D	01/18/2021	23:50

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab File ID: L6299.D BFB Injection Date: 02/17/2021

Instrument ID: HP5977L BFB Injection Time: 10:11

Analysis Batch No.: 569749

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.7	
75	30.0 - 60.0 % of mass 95	50.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	82.0	
175	5.0 - 9.0 % of mass 174	6.5	(7.9) 1
176	95.0 - 101.0 % of mass 174	80.6	(98.3) 1
177	5.0 - 9.0 % of mass 176	5.0	(6.3) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-569749/3	L6300.D	02/17/2021	10:39
	LCS 480-569749/5	L6302.D	02/17/2021	11:29
	MB 480-569749/7	L6304.D	02/17/2021	12:19
EB-20210210	480-181249-5	L6305.D	02/17/2021	12:54
TB-20210210	480-181249-7	L6306.D	02/17/2021	13:18

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Sample No.: ICIS 480-568392/8 Date Analyzed: 02/04/2021 14:41

Instrument ID: HP5973F GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Lab File ID (Standard): F0413.D Heated Purge: (Y/N) Y

Calibration ID: 40978

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		238157	5.55	480230	8.39	435464	10.70
UPPER LIMIT		476314	6.05	960460	8.89	870928	11.20
LOWER LIMIT		119079	5.05	240115	7.89	217732	10.20
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-569734/3		213999	5.54	443758	8.38	422011	10.70
CCVIS 480-569897/3		212604	5.54	450349	8.38	425094	10.70

FB = Fluorobenzene (IS)
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Sample No.: CCVIS 480-569734/3 Date Analyzed: 02/17/2021 09:41

Instrument ID: HP5973F GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Lab File ID (Standard): F0657.D Heated Purge: (Y/N) Y

Calibration ID: 40981

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		213999	5.54	443758	8.38	422011	10.70
UPPER LIMIT		427998	6.04	887516	8.88	844022	11.20
LOWER LIMIT		107000	5.04	221879	7.88	211006	10.20
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-569843/1-A		210288	5.55	446703	8.38	436890	10.70
MB 480-569843/2-A		201862	5.55	417419	8.38	405398	10.70
480-181249-1	SB-12C (32-33)	227123	5.55	482236	8.38	454666	10.70
480-181249-2	SB-12C (55-56)	168675	5.55	209715*	8.38	69512*	10.70
480-181249-4	SB-12A (13-15)	199740	5.55	418643	8.38	393513	10.70
480-181249-6	DUP-SB (13-15)	187560	5.55	376342	8.38	366005	10.70

FB = Fluorobenzene (IS)
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Sample No.: CCVIS 480-569897/3 Date Analyzed: 02/18/2021 09:26

Instrument ID: HP5973F GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Lab File ID (Standard): F0685.D Heated Purge: (Y/N) Y

Calibration ID: 40981

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		212604	5.54	450349	8.38	425094	10.70
UPPER LIMIT		425208	6.04	900698	8.88	850188	11.20
LOWER LIMIT		106302	5.04	225175	7.88	212547	10.20
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-569920/1-A		211965	5.55	443594	8.38	421921	10.70
MB 480-569920/2-A		192051	5.55	399686	8.38	383351	10.70
480-181249-3	SB-12A (4-6)	188232	5.55	392916	8.38	365635	10.70
480-181249-3 MS	SB-12A (4-6) MS	201663	5.55	426563	8.38	389738	10.70
480-181249-3 MSD	SB-12A (4-6) MSD	207860	5.55	443193	8.38	431540	10.70

FB = Fluorobenzene (IS)
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Sample No.: ICIS 480-566434/10 Date Analyzed: 01/18/2021 17:12

Instrument ID: HP5977L GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Lab File ID (Standard): L5854.D Heated Purge: (Y/N) N

Calibration ID: 40928

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		123376	6.49	524041	9.44	307844	11.74
UPPER LIMIT		246752	6.99	1048082	9.94	615688	12.24
LOWER LIMIT		61688	5.99	262021	8.94	153922	11.24
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 480-566434/26		122084	6.49	539469	9.45	316847	11.74
CCVIS 480-569749/3		139687	6.48	587878	9.44	315961	11.74

FB = Fluorobenzene (IS)
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Sample No.: CCVIS 480-569749/3 Date Analyzed: 02/17/2021 10:39

Instrument ID: HP5977L GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Lab File ID (Standard): L6300.D Heated Purge: (Y/N) N

Calibration ID: 40931

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		139687	6.48	587878	9.44	315961	11.74
UPPER LIMIT		279374	6.98	1175756	9.94	631922	12.24
LOWER LIMIT		69844	5.98	293939	8.94	157981	11.24
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-569749/5		126271	6.49	531875	9.44	297336	11.74
MB 480-569749/7		134693	6.49	572164	9.44	314811	11.74
480-181249-5	EB-20210210	150582	6.48	625025	9.44	337916	11.74
480-181249-7	TB-20210210	134095	6.48	574108	9.44	315348	11.74

FB = Fluorobenzene (IS)
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12C (32-33) Lab Sample ID: 480-181249-1

Matrix: Solid Lab File ID: F0664.D

Analysis Method: 8260C Date Collected: 02/11/2021 11:25

Sample wt/vol: 5.02(g) Date Analyzed: 02/17/2021 14:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 15.8 Level: (low/med) Low

Analysis Batch No.: 569734 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	5.9	U	5.9	0.43
79-34-5	1,1,2,2-Tetrachloroethane	5.9	U	5.9	0.96
79-00-5	1,1,2-Trichloroethane	5.9	U	5.9	0.77
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.9	U	5.9	1.3
75-34-3	1,1-Dichloroethane	5.9	U	5.9	0.72
75-35-4	1,1-Dichloroethene	5.9	U	5.9	0.72
120-82-1	1,2,4-Trichlorobenzene	5.9	U	5.9	0.36
96-12-8	1,2-Dibromo-3-Chloropropane	5.9	U	5.9	3.0
95-50-1	1,2-Dichlorobenzene	5.9	U	5.9	0.46
107-06-2	1,2-Dichloroethane	5.9	U	5.9	0.30
78-87-5	1,2-Dichloropropane	5.9	U	5.9	3.0
541-73-1	1,3-Dichlorobenzene	5.9	U	5.9	0.30
106-46-7	1,4-Dichlorobenzene	5.9	U	5.9	0.83
78-93-3	2-Butanone (MEK)	30	U	30	2.2
591-78-6	2-Hexanone	30	U	30	3.0
108-10-1	4-Methyl-2-pentanone (MIBK)	30	U	30	1.9
67-64-1	Acetone	16	J	30	5.0
71-43-2	Benzene	5.9	U	5.9	0.29
75-27-4	Bromodichloromethane	5.9	U	5.9	0.79
75-25-2	Bromoform	5.9	U	5.9	3.0
74-83-9	Bromomethane	5.9	U	5.9	0.53
75-15-0	Carbon disulfide	5.9	U	5.9	3.0
56-23-5	Carbon tetrachloride	5.9	U	5.9	0.57
108-90-7	Chlorobenzene	5.9	U	5.9	0.78
124-48-1	Dibromochloromethane	5.9	U	5.9	0.76
75-00-3	Chloroethane	5.9	U	5.9	1.3
67-66-3	Chloroform	5.9	U	5.9	0.37
74-87-3	Chloromethane	5.9	U	5.9	0.36
156-59-2	cis-1,2-Dichloroethene	5.9	U	5.9	0.76
10061-01-5	cis-1,3-Dichloropropene	5.9	U	5.9	0.85
110-82-7	Cyclohexane	5.9	U	5.9	0.83
75-71-8	Dichlorodifluoromethane	5.9	U	5.9	0.49
100-41-4	Ethylbenzene	5.9	U	5.9	0.41
106-93-4	1,2-Dibromoethane	5.9	U	5.9	0.76
98-82-8	Isopropylbenzene	5.9	U	5.9	0.89

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12C (32-33) Lab Sample ID: 480-181249-1

Matrix: Solid Lab File ID: F0664.D

Analysis Method: 8260C Date Collected: 02/11/2021 11:25

Sample wt/vol: 5.02(g) Date Analyzed: 02/17/2021 14:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 15.8 Level: (low/med) Low

Analysis Batch No.: 569734 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	30	U	30	3.6
1634-04-4	Methyl tert-butyl ether	5.9	U	5.9	0.58
108-87-2	Methylcyclohexane	5.9	U	5.9	0.90
75-09-2	Methylene Chloride	5.9	U	5.9	2.7
100-42-5	Styrene	5.9	U	5.9	0.30
127-18-4	Tetrachloroethene	5.9	U	5.9	0.79
108-88-3	Toluene	5.9	U	5.9	0.45
156-60-5	trans-1,2-Dichloroethene	5.9	U	5.9	0.61
10061-02-6	trans-1,3-Dichloropropene	5.9	U	5.9	2.6
79-01-6	Trichloroethene	5.9	U	5.9	1.3
75-69-4	Trichlorofluoromethane	5.9	U	5.9	0.56
75-01-4	Vinyl chloride	5.9	U	5.9	0.72
1330-20-7	Xylenes, Total	12	U	12	0.99

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	98		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		64-126
460-00-4	4-Bromofluorobenzene (Surr)	109		72-126
1868-53-7	Dibromofluoromethane (Surr)	104		60-140

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210217-96701.b\F0664.D
Lims ID: 480-181249-B-1-A
Client ID: SB-12C (32-33)
Sample Type: Client
Inject. Date: 17-Feb-2021 14:45:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-181249-B-1-A
Misc. Info.: 480-0096701-010
Operator ID: WD Instrument ID: HP5973F

Method: \\chromfs\Buffalo\ChromData\HP5973F\20210217-96701.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 17-Feb-2021 14:11:55 Calib Date: 04-Feb-2021 19:06:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0423.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1657

First Level Reviewer: dahnw Date: 17-Feb-2021 16:13:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.545	5.539	0.006	98	227123	50.0	
* 2 Chlorobenzene-d5	82	8.380	8.380	0.000	87	482236	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.698	10.703	-0.005	95	454666	50.0	
$ 154 Dibromofluoromethane (Surr)	113	4.997	5.003	0.000	93	295974	52.1	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.289	5.289	0.000	99	173873	48.7	
$ 5 Toluene-d8 (Surr)	98	6.938	6.938	0.000	94	1106955	48.8	
$ 6 4-Bromofluorobenzene (Surr)	174	9.597	9.596	0.001	90	369648	54.5	
10 Dichlorodifluoromethane	85		1.961				ND	
12 Chloromethane	50		2.156				ND	
13 Vinyl chloride	62		2.259				ND	
14 Bromomethane	94		2.564				ND	
15 Chloroethane	64		2.637				ND	
17 Trichlorofluoromethane	101		2.831				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.227				ND	
22 1,1-Dichloroethene	96		3.251				ND	
23 Acetone	43	3.282	3.282	0.000	97	34139	13.9	
26 Carbon disulfide	76		3.464				ND	
27 Methyl acetate	43		3.513				ND	
30 Methylene Chloride	84	3.629	3.628	0.001	98	16637	0.6358	
32 Methyl tert-butyl ether	73		3.799				ND	
34 trans-1,2-Dichloroethene	96		3.829				ND	
39 1,1-Dichloroethane	63		4.164				ND	
43 2-Butanone (MEK)	43		4.596				ND	
45 cis-1,2-Dichloroethene	96		4.620				ND	
50 Chloroform	83		4.857				ND	
51 1,1,1-Trichloroethane	97		5.021				ND	
52 Cyclohexane	56		5.064				ND	
55 Carbon tetrachloride	117		5.155				ND	
57 Benzene	78		5.332				ND	
58 1,2-Dichloroethane	62		5.350				ND	
62 Trichloroethene	95		5.855				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
64 Methylcyclohexane	83		6.007				ND	
65 1,2-Dichloropropane	63		6.068				ND	
68 Dichlorobromomethane	83		6.299				ND	
72 cis-1,3-Dichloropropene	75		6.694				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.786				ND	
74 Toluene	92		6.999				ND	
77 trans-1,3-Dichloropropene	75		7.205				ND	
79 1,1,2-Trichloroethane	83		7.400				ND	
81 Tetrachloroethene	166		7.534				ND	
80 2-Hexanone	43		7.583				ND	
83 Chlorodibromomethane	129		7.814				ND	
84 Ethylene Dibromide	107		7.948				ND	
87 Chlorobenzene	112		8.416				ND	
88 Ethylbenzene	91		8.483				ND	
90 m-Xylene & p-Xylene	106		8.599				ND	
91 o-Xylene	106		9.031				ND	
92 Styrene	104		9.049				ND	
95 Bromoform	173		9.304				ND	
94 Isopropylbenzene	105		9.396				ND	
97 1,1,2,2-Tetrachloroethane	83		9.736				ND	
111 1,3-Dichlorobenzene	146		10.643				ND	
113 1,4-Dichlorobenzene	146		10.722				ND	
116 1,2-Dichlorobenzene	146		11.062				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.732				ND	
119 1,2,4-Trichlorobenzene	180		12.395				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

F 8260 IS/SS_00117 Amount Added: 1.00 Units: uL Run Reagent

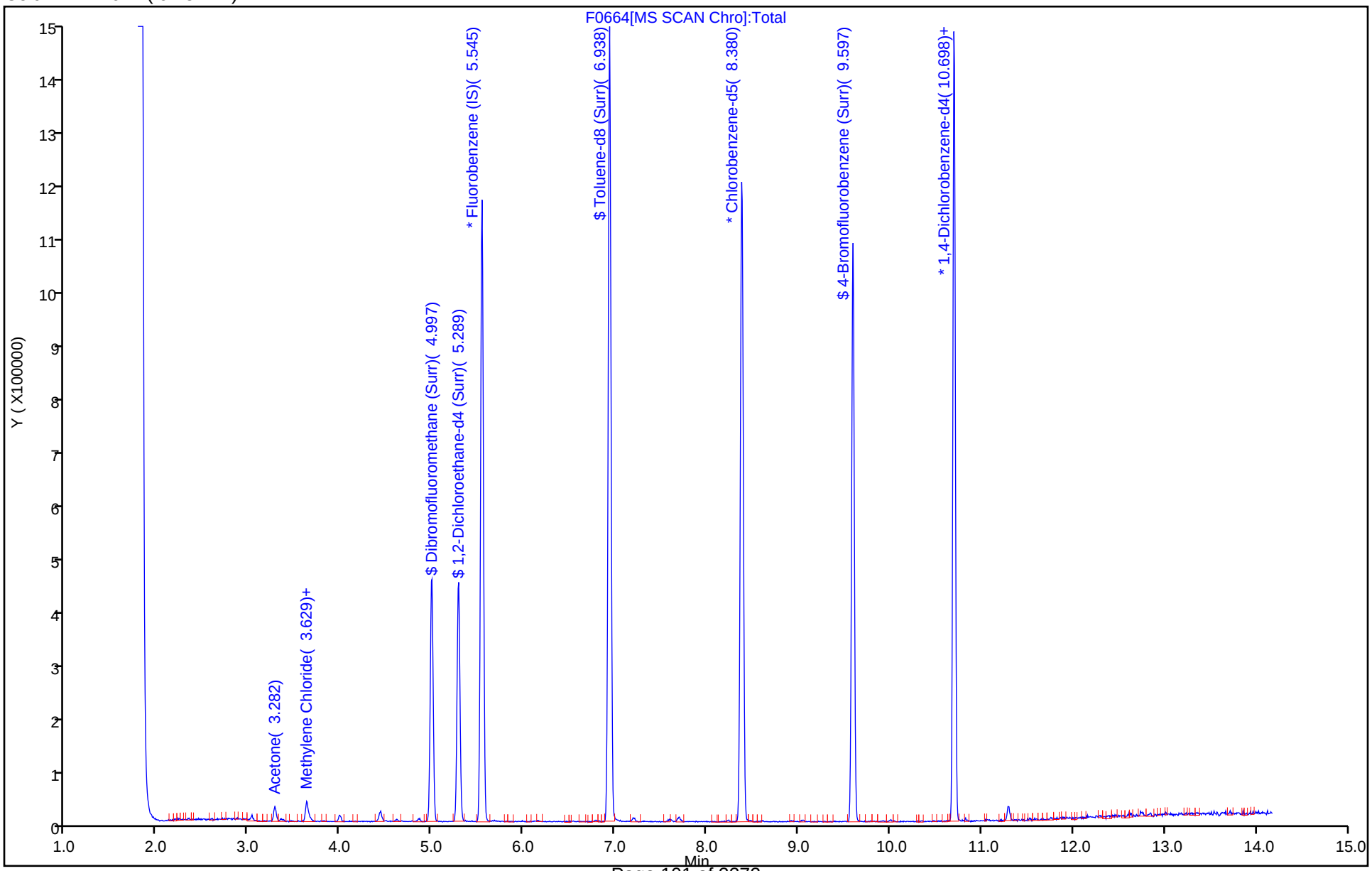
Report Date: 17-Feb-2021 16:13:22 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210217-96701.b\F0664.D

Injection Date:	17-Feb-2021 14:45:30	Instrument ID:	HP5973F	Operator ID:	WD
Lims ID:	480-181249-B-1-A	Lab Sample ID:	480-181249-1	Worklist Smp#:	10
Client ID:	SB-12C (32-33)				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)

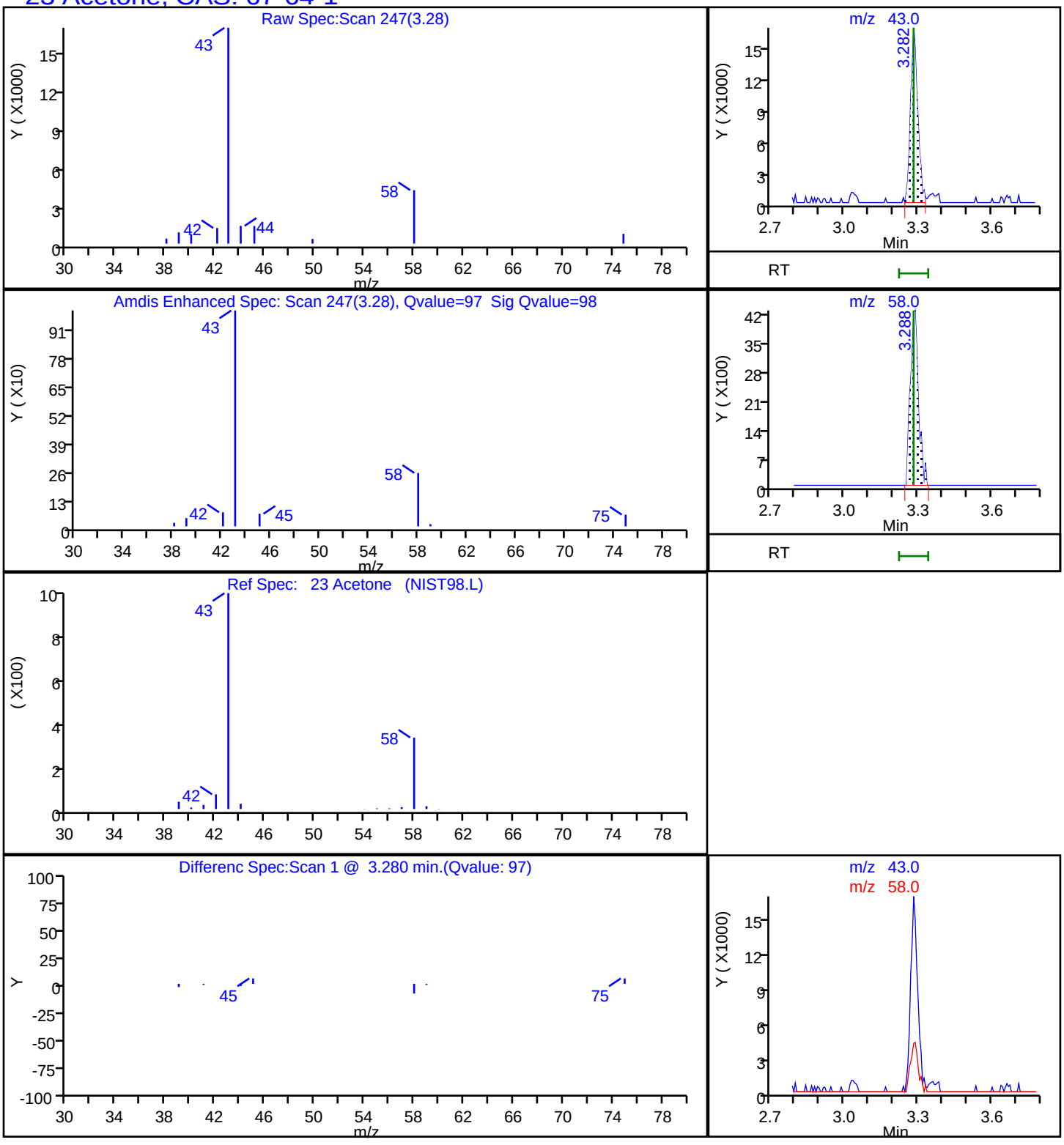


Report Date: 17-Feb-2021 16:13:22 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973F\20210217-96701.b\F0664.D				
Injection Date:	17-Feb-2021 14:45:30	Instrument ID:	HP5973F		
Lims ID:	480-181249-B-1-A	Lab Sample ID:	480-181249-1		
Client ID:	SB-12C (32-33)				
Operator ID:	WD	ALS Bottle#:	10	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12C (55-56) | Lab Sample ID: 480-181249-2

Matrix: Solid | Lab File ID: F0665.D

Analysis Method: 8260C | Date Collected: 02/11/2021 15:10

Sample wt/vol: 5.12(g) | Date Analyzed: 02/17/2021 15:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 37.1 | Level: (low/med) Low

Analysis Batch No.: 569734 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	7.8	U	7.8	0.56
79-34-5	1,1,2,2-Tetrachloroethane	7.8	U *	7.8	1.3
79-00-5	1,1,2-Trichloroethane	7.8	U *	7.8	1.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7.8	U	7.8	1.8
75-34-3	1,1-Dichloroethane	7.8	U	7.8	0.95
75-35-4	1,1-Dichloroethene	7.8	U	7.8	0.95
120-82-1	1,2,4-Trichlorobenzene	7.8	U *	7.8	0.47
96-12-8	1,2-Dibromo-3-Chloropropane	7.8	U *	7.8	3.9
95-50-1	1,2-Dichlorobenzene	7.8	U *	7.8	0.61
107-06-2	1,2-Dichloroethane	7.8	U	7.8	0.39
78-87-5	1,2-Dichloropropane	7.8	U	7.8	3.9
541-73-1	1,3-Dichlorobenzene	7.8	U *	7.8	0.40
106-46-7	1,4-Dichlorobenzene	7.8	U *	7.8	1.1
78-93-3	2-Butanone (MEK)	39	U	39	2.8
591-78-6	2-Hexanone	39	U *	39	3.9
108-10-1	4-Methyl-2-pentanone (MIBK)	39	U *	39	2.5
67-64-1	Acetone	23	J	39	6.5
71-43-2	Benzene	7.8	U	7.8	0.38
75-27-4	Bromodichloromethane	7.8	U	7.8	1.0
75-25-2	Bromoform	7.8	U *	7.8	3.9
74-83-9	Bromomethane	7.8	U	7.8	0.70
75-15-0	Carbon disulfide	7.8	U	7.8	3.9
56-23-5	Carbon tetrachloride	7.8	U	7.8	0.75
108-90-7	Chlorobenzene	7.8	U *	7.8	1.0
124-48-1	Dibromochloromethane	7.8	U *	7.8	0.99
75-00-3	Chloroethane	7.8	U	7.8	1.8
67-66-3	Chloroform	7.8	U	7.8	0.48
74-87-3	Chloromethane	7.8	U	7.8	0.47
156-59-2	cis-1,2-Dichloroethene	7.8	U	7.8	0.99
10061-01-5	cis-1,3-Dichloropropene	7.8	U	7.8	1.1
110-82-7	Cyclohexane	7.8	U	7.8	1.1
75-71-8	Dichlorodifluoromethane	7.8	U	7.8	0.64
100-41-4	Ethylbenzene	7.8	U *	7.8	0.54
106-93-4	1,2-Dibromoethane	7.8	U *	7.8	1.0
98-82-8	Isopropylbenzene	7.8	U *	7.8	1.2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12C (55-56) Lab Sample ID: 480-181249-2

Matrix: Solid Lab File ID: F0665.D

Analysis Method: 8260C Date Collected: 02/11/2021 15:10

Sample wt/vol: 5.12(g) Date Analyzed: 02/17/2021 15:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 37.1 Level: (low/med) Low

Analysis Batch No.: 569734 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	39	U	39	4.7
1634-04-4	Methyl tert-butyl ether	7.8	U	7.8	0.76
108-87-2	Methylcyclohexane	7.8	U	7.8	1.2
75-09-2	Methylene Chloride	7.8	U	7.8	3.6
100-42-5	Styrene	7.8	U *	7.8	0.39
127-18-4	Tetrachloroethene	7.8	U *	7.8	1.0
108-88-3	Toluene	7.8	U *	7.8	0.59
156-60-5	trans-1,2-Dichloroethene	7.8	U	7.8	0.80
10061-02-6	trans-1,3-Dichloropropene	7.8	U *	7.8	3.4
79-01-6	Trichloroethene	7.8	U	7.8	1.7
75-69-4	Trichlorofluoromethane	7.8	U	7.8	0.73
75-01-4	Vinyl chloride	7.8	U	7.8	0.95
1330-20-7	Xylenes, Total	16	U	16	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	140	*	71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		64-126
460-00-4	4-Bromofluorobenzene (Surr)	64	*	72-126
1868-53-7	Dibromofluoromethane (Surr)	109		60-140

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210217-96701.b\F0665.D
Lims ID: 480-181249-C-2-A
Client ID: SB-12C (55-56)
Sample Type: Client
Inject. Date: 17-Feb-2021 15:12:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-181249-C-2-A
Misc. Info.: 480-0096701-011
Operator ID: WD Instrument ID: HP5973F

Method: \\chromfs\Buffalo\ChromData\HP5973F\20210217-96701.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 17-Feb-2021 14:11:55 Calib Date: 04-Feb-2021 19:06:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0423.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1657

First Level Reviewer: dahnw Date: 17-Feb-2021 16:13:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.545	5.539	0.006	98	168675	50.0	
* 2 Chlorobenzene-d5	82	8.380	8.380	0.000	88	209715	50.0	s
* 3 1,4-Dichlorobenzene-d4	152	10.704	10.703	0.001	96	69512	50.0	s
$ 154 Dibromofluoromethane (Surr)	113	4.991	5.003	-0.006	92	230406	54.6	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.283	5.289	-0.006	98	120895	45.6	
$ 5 Toluene-d8 (Surr)	98	6.938	6.938	0.000	94	691562	70.1	
$ 6 4-Bromofluorobenzene (Surr)	174	9.596	9.596	0.000	89	94078	31.9	
10 Dichlorodifluoromethane	85		1.961				ND	
12 Chloromethane	50		2.156				ND	
13 Vinyl chloride	62		2.259				ND	
14 Bromomethane	94		2.564				ND	
15 Chloroethane	64		2.637				ND	
17 Trichlorofluoromethane	101		2.831				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.227				ND	
22 1,1-Dichloroethene	96		3.251				ND	
23 Acetone	43	3.282	3.282	0.000	100	26517	14.5	
26 Carbon disulfide	76	3.470	3.464	0.006	98	6002	0.4233	
27 Methyl acetate	43		3.513				ND	
30 Methylene Chloride	84	3.628	3.628	0.000	96	13284	0.8120	
32 Methyl tert-butyl ether	73		3.799				ND	
34 trans-1,2-Dichloroethene	96		3.829				ND	
39 1,1-Dichloroethane	63		4.164				ND	
43 2-Butanone (MEK)	43		4.596				ND	
45 cis-1,2-Dichloroethene	96		4.620				ND	
50 Chloroform	83		4.857				ND	
51 1,1,1-Trichloroethane	97		5.021				ND	
52 Cyclohexane	56		5.064				ND	
55 Carbon tetrachloride	117		5.155				ND	
57 Benzene	78		5.332				ND	
58 1,2-Dichloroethane	62		5.350				ND	
62 Trichloroethene	95		5.855				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
64 Methylcyclohexane	83		6.007				ND	
65 1,2-Dichloropropane	63		6.068				ND	
68 Dichlorobromomethane	83		6.299				ND	
72 cis-1,3-Dichloropropene	75		6.694				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.786				ND	
74 Toluene	92		6.999				ND	
77 trans-1,3-Dichloropropene	75		7.205				ND	
79 1,1,2-Trichloroethane	83		7.400				ND	
81 Tetrachloroethene	166		7.534				ND	
80 2-Hexanone	43		7.583				ND	
83 Chlorodibromomethane	129		7.814				ND	
84 Ethylene Dibromide	107		7.948				ND	
87 Chlorobenzene	112		8.416				ND	
88 Ethylbenzene	91		8.483				ND	
90 m-Xylene & p-Xylene	106		8.599				ND	
91 o-Xylene	106		9.031				ND	
92 Styrene	104		9.049				ND	
95 Bromoform	173		9.304				ND	
94 Isopropylbenzene	105		9.396				ND	
97 1,1,2,2-Tetrachloroethane	83		9.736				ND	
111 1,3-Dichlorobenzene	146		10.643				ND	
113 1,4-Dichlorobenzene	146		10.722				ND	
116 1,2-Dichlorobenzene	146		11.062				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.732				ND	
119 1,2,4-Trichlorobenzene	180		12.395				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

s - Failed ISTD Recovery Test

Reagents:

F 8260 IS/SS_00117 Amount Added: 1.00 Units: uL Run Reagent

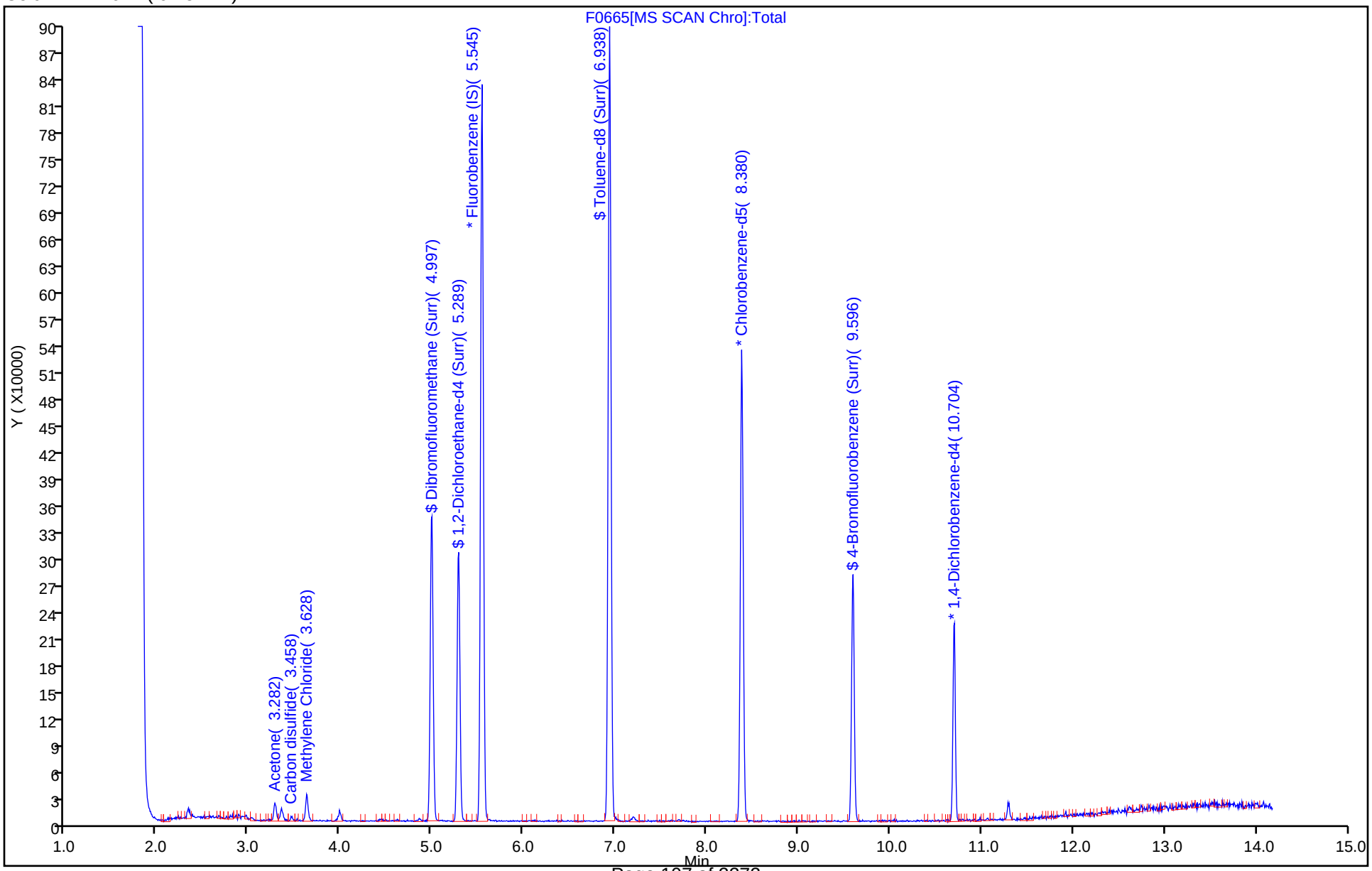
Report Date: 17-Feb-2021 16:13:49 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210217-96701.b\F0665.D

Injection Date:	17-Feb-2021 15:12:30	Instrument ID:	HP5973F	Operator ID:	WD
Lims ID:	480-181249-C-2-A	Lab Sample ID:	480-181249-2	Worklist Smp#:	11
Client ID:	SB-12C (55-56)				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)

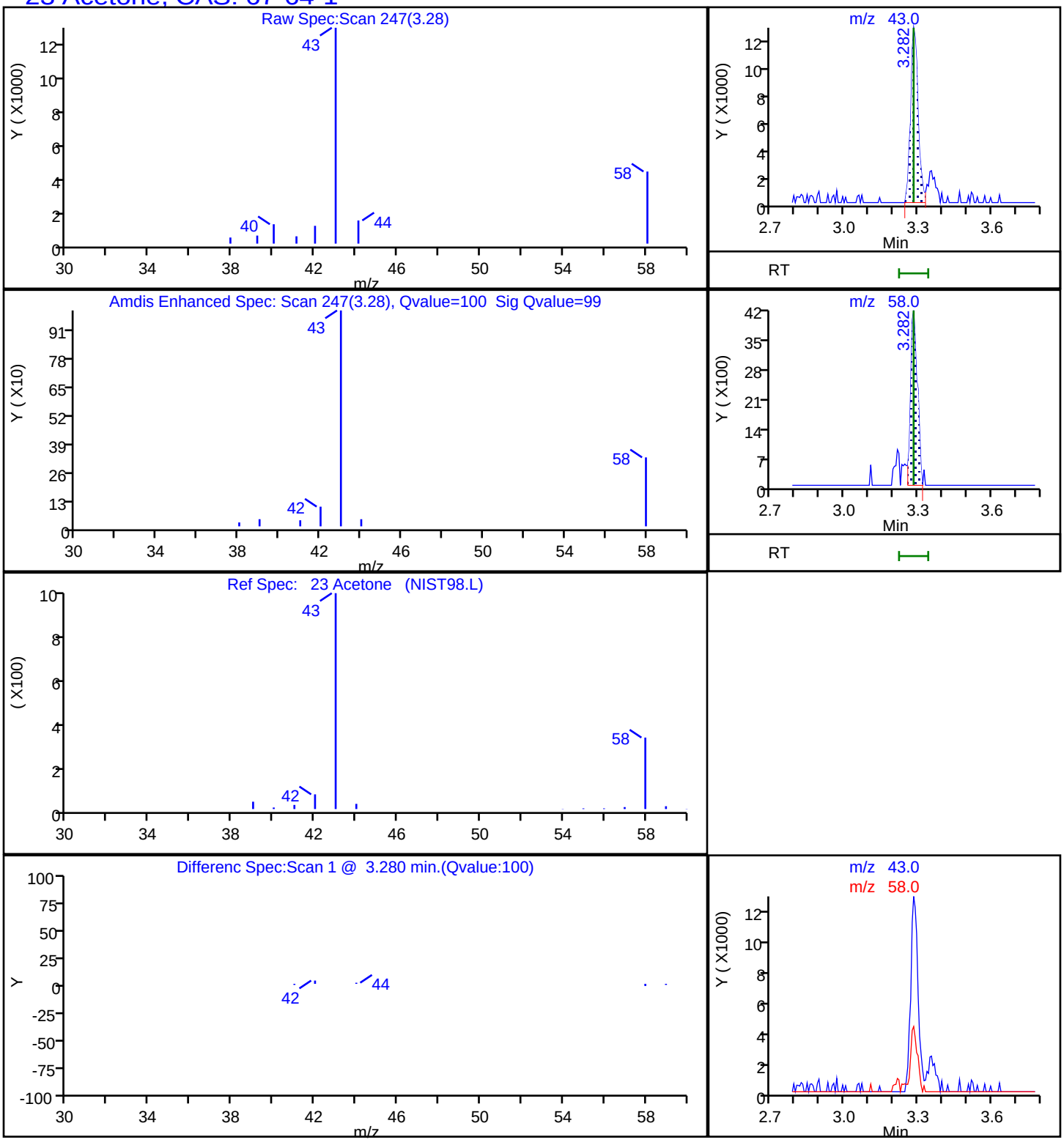


Report Date: 17-Feb-2021 16:13:49 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973F\20210217-96701.b\F0665.D				
Injection Date:	17-Feb-2021 15:12:30	Instrument ID:	HP5973F		
Lims ID:	480-181249-C-2-A	Lab Sample ID:	480-181249-2		
Client ID:	SB-12C (55-56)				
Operator ID:	WD	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12A (4-6) | Lab Sample ID: 480-181249-3

Matrix: Solid | Lab File ID: F0690.D

Analysis Method: 8260C | Date Collected: 02/12/2021 13:45

Sample wt/vol: 5.08(g) | Date Analyzed: 02/18/2021 11:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 19.9 | Level: (low/med) Low

Analysis Batch No.: 569897 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	6.1	U	6.1	0.45
79-34-5	1,1,2,2-Tetrachloroethane	6.1	U	6.1	1.0
79-00-5	1,1,2-Trichloroethane	6.1	U	6.1	0.80
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.1	U	6.1	1.4
75-34-3	1,1-Dichloroethane	6.1	U	6.1	0.75
75-35-4	1,1-Dichloroethene	6.1	U	6.1	0.75
120-82-1	1,2,4-Trichlorobenzene	6.1	U	6.1	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	6.1	U	6.1	3.1
95-50-1	1,2-Dichlorobenzene	6.1	U	6.1	0.48
107-06-2	1,2-Dichloroethane	6.1	U	6.1	0.31
78-87-5	1,2-Dichloropropane	6.1	U	6.1	3.1
541-73-1	1,3-Dichlorobenzene	6.1	U	6.1	0.32
106-46-7	1,4-Dichlorobenzene	6.1	U	6.1	0.86
78-93-3	2-Butanone (MEK)	11	J	31	2.2
591-78-6	2-Hexanone	31	U	31	3.1
108-10-1	4-Methyl-2-pentanone (MIBK)	31	U	31	2.0
67-64-1	Acetone	42		31	5.2
71-43-2	Benzene	6.1	U	6.1	0.30
75-27-4	Bromodichloromethane	6.1	U	6.1	0.82
75-25-2	Bromoform	6.1	U	6.1	3.1
74-83-9	Bromomethane	6.1	U	6.1	0.55
75-15-0	Carbon disulfide	6.1	U	6.1	3.1
56-23-5	Carbon tetrachloride	6.1	U	6.1	0.60
108-90-7	Chlorobenzene	2.2	J	6.1	0.81
124-48-1	Dibromochloromethane	6.1	U	6.1	0.79
75-00-3	Chloroethane	6.1	U	6.1	1.4
67-66-3	Chloroform	6.1	U	6.1	0.38
74-87-3	Chloromethane	6.1	U	6.1	0.37
156-59-2	cis-1,2-Dichloroethene	6.1	U	6.1	0.79
10061-01-5	cis-1,3-Dichloropropene	6.1	U	6.1	0.89
110-82-7	Cyclohexane	6.1	U	6.1	0.86
75-71-8	Dichlorodifluoromethane	6.1	U	6.1	0.51
100-41-4	Ethylbenzene	6.1	U	6.1	0.42
106-93-4	1,2-Dibromoethane	6.1	U	6.1	0.79
98-82-8	Isopropylbenzene	6.1	U	6.1	0.93

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12A (4-6) Lab Sample ID: 480-181249-3

Matrix: Solid Lab File ID: F0690.D

Analysis Method: 8260C Date Collected: 02/12/2021 13:45

Sample wt/vol: 5.08(g) Date Analyzed: 02/18/2021 11:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 19.9 Level: (low/med) Low

Analysis Batch No.: 569897 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	31	U	31	3.7
1634-04-4	Methyl tert-butyl ether	6.1	U	6.1	0.60
108-87-2	Methylcyclohexane	6.1	U	6.1	0.93
75-09-2	Methylene Chloride	9.7	B	6.1	2.8
100-42-5	Styrene	6.1	U	6.1	0.31
127-18-4	Tetrachloroethene	6.1	U	6.1	0.82
108-88-3	Toluene	1.2	J	6.1	0.46
156-60-5	trans-1,2-Dichloroethene	6.1	U	6.1	0.63
10061-02-6	trans-1,3-Dichloropropene	6.1	U	6.1	2.7
79-01-6	Trichloroethene	6.1	U	6.1	1.4
75-69-4	Trichlorofluoromethane	6.1	U	6.1	0.58
75-01-4	Vinyl chloride	6.1	U	6.1	0.75
1330-20-7	Xylenes, Total	12	U	12	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	98		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		64-126
460-00-4	4-Bromofluorobenzene (Surr)	106		72-126
1868-53-7	Dibromofluoromethane (Surr)	111		60-140

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210218-96726.b\F0690.D
Lims ID: 480-181249-B-3-E
Client ID: SB-12A (4-6)
Sample Type: Client
Inject. Date: 18-Feb-2021 11:39:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-181249-B-3-E
Misc. Info.: 480-0096726-008
Operator ID: WD Instrument ID: HP5973F

Method: \\chromfs\Buffalo\ChromData\HP5973F\20210218-96726.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Feb-2021 15:26:24 Calib Date: 04-Feb-2021 19:06:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0423.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1659

First Level Reviewer: dahnw Date: 18-Feb-2021 12:28:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.545	5.545	0.000	98	188232	50.0	
* 2 Chlorobenzene-d5	82	8.380	8.386	-0.006	87	392916	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.704	10.704	0.000	95	365635	50.0	
$ 154 Dibromofluoromethane (Surr)	113	4.997	4.997	0.000	93	261943	55.7	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.289	5.289	0.000	99	145848	49.3	
$ 5 Toluene-d8 (Surr)	98	6.938	6.933	0.000	94	907954	49.1	
$ 6 4-Bromofluorobenzene (Surr)	174	9.597	9.589	0.001	91	293807	53.2	
10 Dichlorodifluoromethane	85		1.967				ND	
12 Chloromethane	50		2.162				ND	
13 Vinyl chloride	62		2.266				ND	
14 Bromomethane	94		2.564				ND	
15 Chloroethane	64		2.643				ND	
17 Trichlorofluoromethane	101		2.831				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.227				ND	
22 1,1-Dichloroethene	96		3.245				ND	
23 Acetone	43	3.282	3.282	0.000	99	68896	33.8	
26 Carbon disulfide	76		3.464				ND	
27 Methyl acetate	43		3.519				ND	
30 Methylene Chloride	84	3.635	3.628	0.007	98	56664	7.93	
32 Methyl tert-butyl ether	73		3.799				ND	
34 trans-1,2-Dichloroethene	96		3.829				ND	
39 1,1-Dichloroethane	63		4.164				ND	
43 2-Butanone (MEK)	43	4.602	4.602	0.000	97	26882	8.79	
45 cis-1,2-Dichloroethene	96		4.620				ND	
50 Chloroform	83		4.857				ND	
51 1,1,1-Trichloroethane	97		5.021				ND	
52 Cyclohexane	56		5.064				ND	
55 Carbon tetrachloride	117		5.155				ND	
57 Benzene	78		5.332				ND	7
58 1,2-Dichloroethane	62		5.350				ND	
62 Trichloroethene	95		5.855				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
64 Methylcyclohexane	83		6.013				ND	
65 1,2-Dichloropropane	63		6.068				ND	
68 Dichlorobromomethane	83		6.305				ND	
72 cis-1,3-Dichloropropene	75		6.694				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.792				ND	
74 Toluene	92	6.999	6.993	0.000	95	14844	0.9647	
77 trans-1,3-Dichloropropene	75		7.205				ND	
79 1,1,2-Trichloroethane	83		7.400				ND	
81 Tetrachloroethene	166		7.534				ND	
80 2-Hexanone	43		7.583				ND	
83 Chlorodibromomethane	129		7.808				ND	
84 Ethylene Dibromide	107		7.948				ND	
87 Chlorobenzene	112	8.410	8.404	0.000	96	29433	1.82	a
88 Ethylbenzene	91		8.483				ND	
90 m-Xylene & p-Xylene	106		8.599				ND	
91 o-Xylene	106		9.031				ND	
92 Styrene	104		9.049				ND	
95 Bromoform	173		9.304				ND	
94 Isopropylbenzene	105	9.402	9.402	0.000	88	10716	0.3738	
97 1,1,2,2-Tetrachloroethane	83		9.736				ND	
111 1,3-Dichlorobenzene	146		10.643				ND	
113 1,4-Dichlorobenzene	146	10.722	10.722	0.000	83	5807	0.4168	
116 1,2-Dichlorobenzene	146	11.069	11.062	0.007	90	3707	0.2832	
117 1,2-Dibromo-3-Chloropropane	75		11.732				ND	
119 1,2,4-Trichlorobenzene	180		12.395				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

a - User Assigned ID

Reagents:

F 8260 IS/SS_00117 Amount Added: 1.00 Units: uL Run Reagent

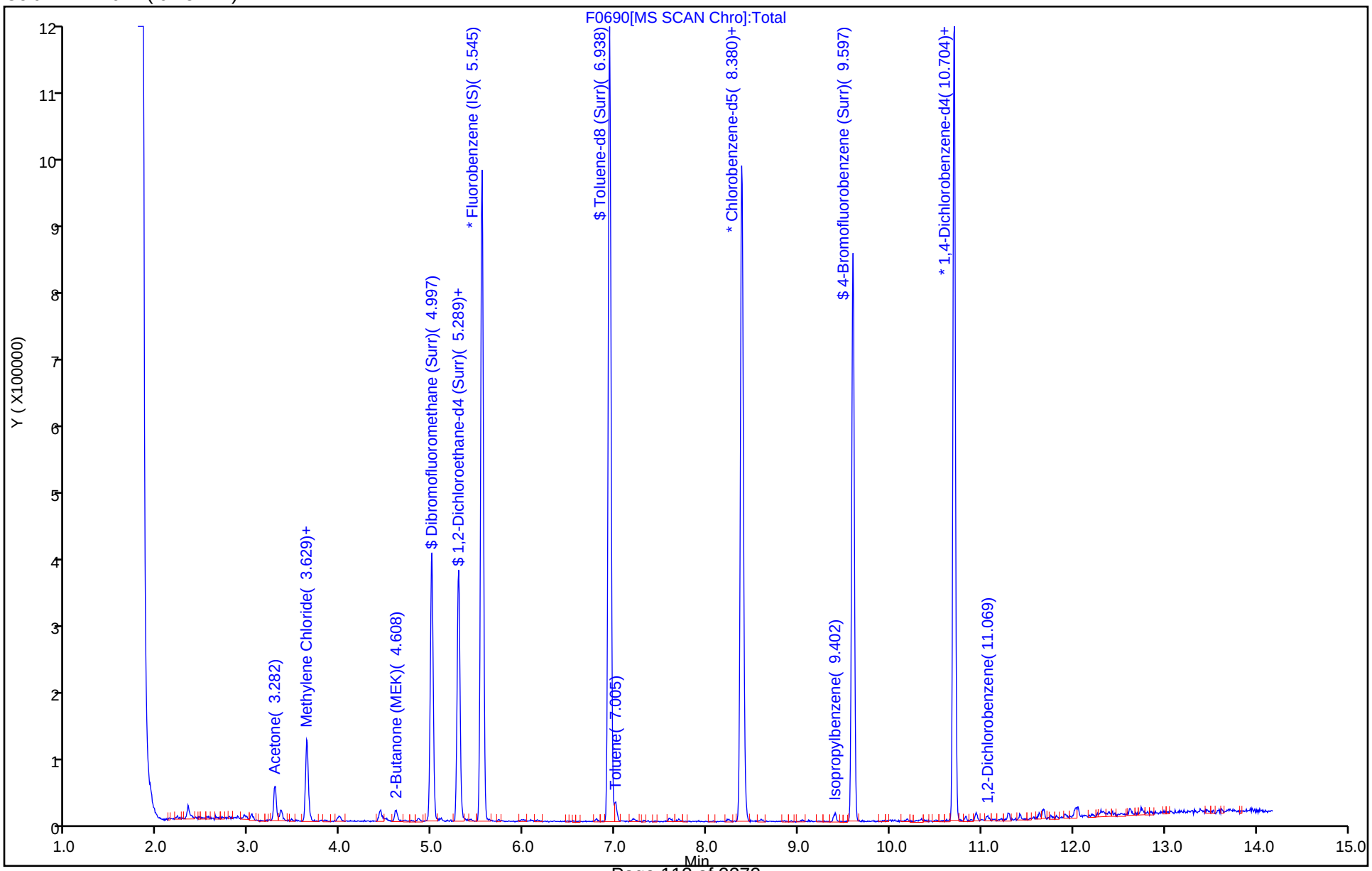
Report Date: 18-Feb-2021 17:40:50 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210218-96726.b\F0690.D

Injection Date:	18-Feb-2021 11:39:30	Instrument ID:	HP5973F	Operator ID:	WD
Lims ID:	480-181249-B-3-E	Lab Sample ID:	480-181249-3	Worklist Smp#:	8
Client ID:	SB-12A (4-6)				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)

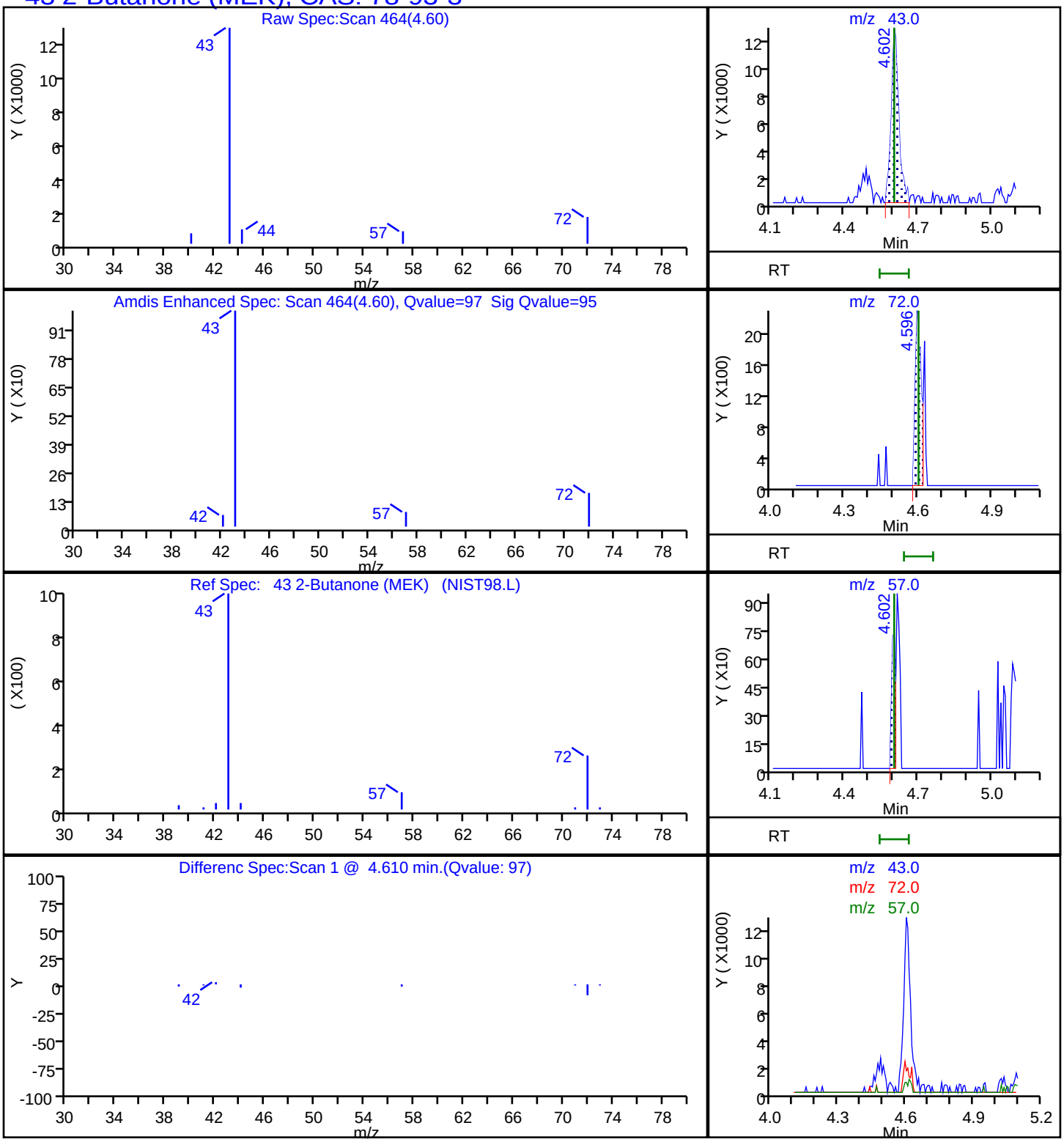


Report Date: 18-Feb-2021 17:40:50 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973F\20210218-96726.b\F0690.D				
Injection Date:	18-Feb-2021 11:39:30	Instrument ID:	HP5973F		
Lims ID:	480-181249-B-3-E	Lab Sample ID:	480-181249-3		
Client ID:	SB-12A (4-6)				
Operator ID:	WD	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

43 2-Butanone (MEK), CAS: 78-93-3

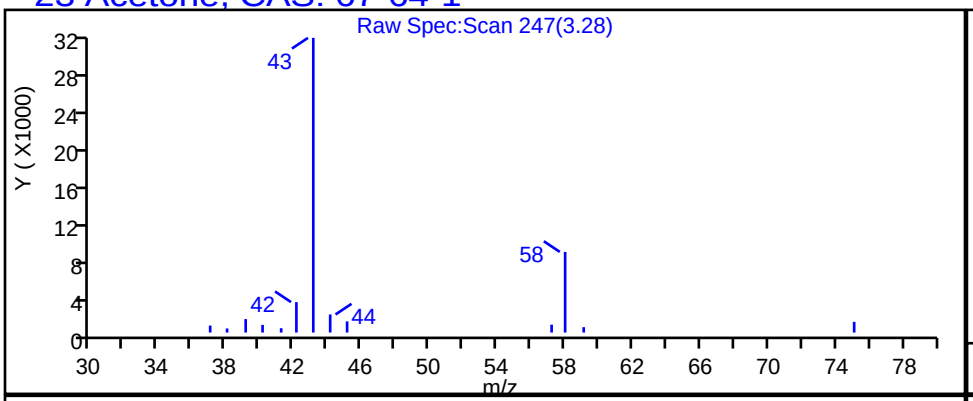


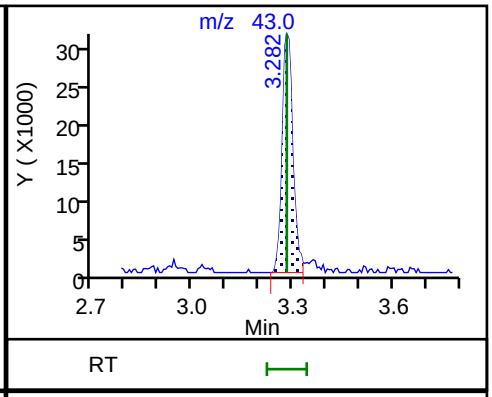
Report Date: 18-Feb-2021 17:40:50 Chrom Revision: 2.3 05-Feb-2021 00:13:28

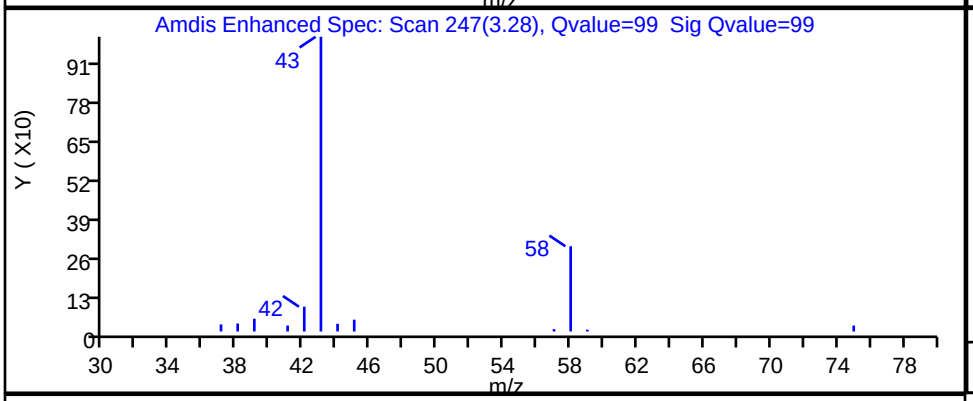
Eurofins TestAmerica, Buffalo

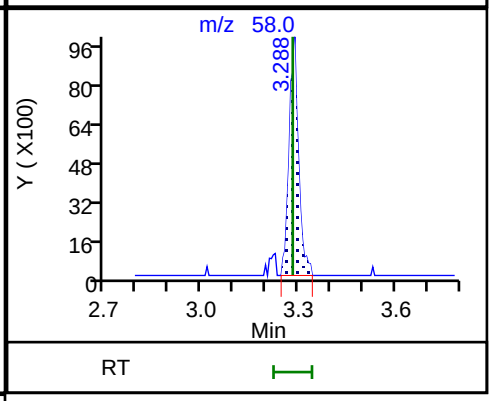
Data File:	\\chromfs\Buffalo\ChromData\HP5973F\20210218-96726.b\F0690.D				
Injection Date:	18-Feb-2021 11:39:30	Instrument ID:	HP5973F		
Lims ID:	480-181249-B-3-E	Lab Sample ID:	480-181249-3		
Client ID:	SB-12A (4-6)				
Operator ID:	WD	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

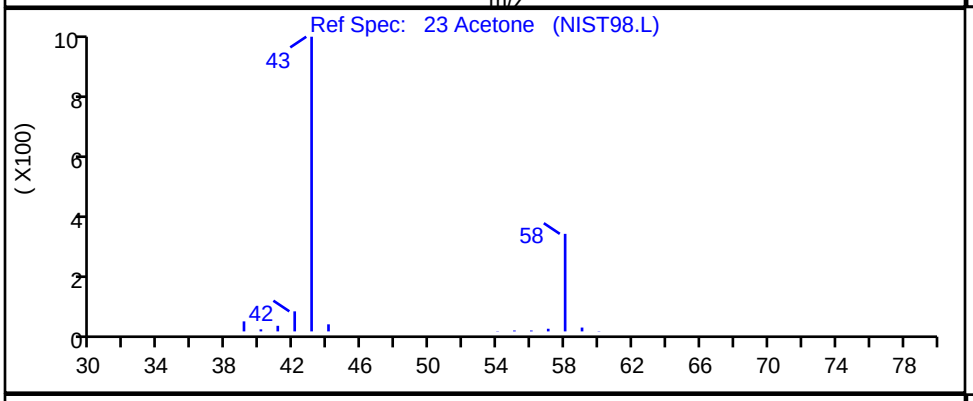
23 Acetone, CAS: 67-64-1

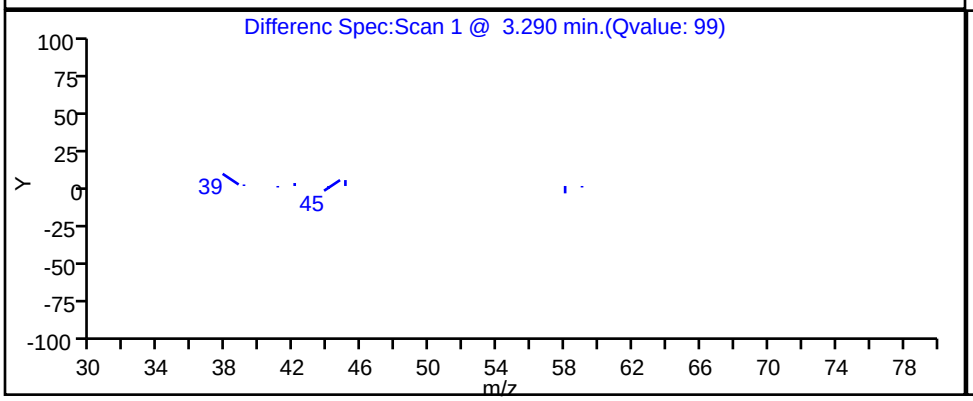


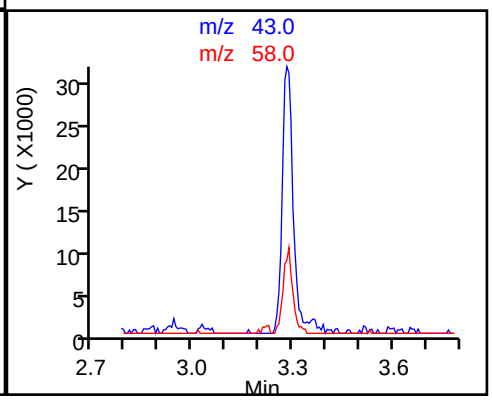










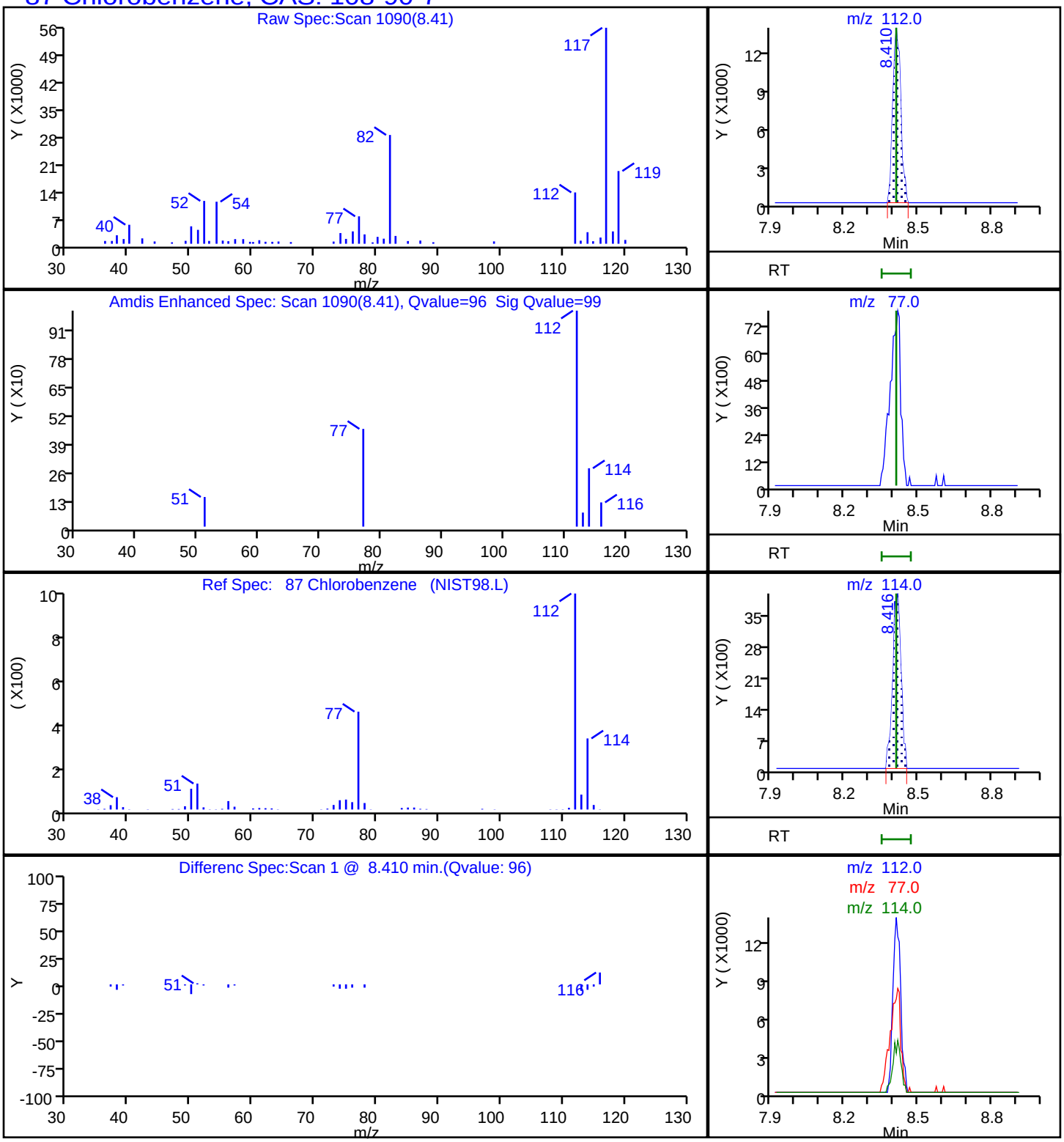


Report Date: 18-Feb-2021 17:40:50 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973F\20210218-96726.b\F0690.D				
Injection Date:	18-Feb-2021 11:39:30	Instrument ID:	HP5973F		
Lims ID:	480-181249-B-3-E	Lab Sample ID:	480-181249-3		
Client ID:	SB-12A (4-6)				
Operator ID:	WD	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

87 Chlorobenzene, CAS: 108-90-7



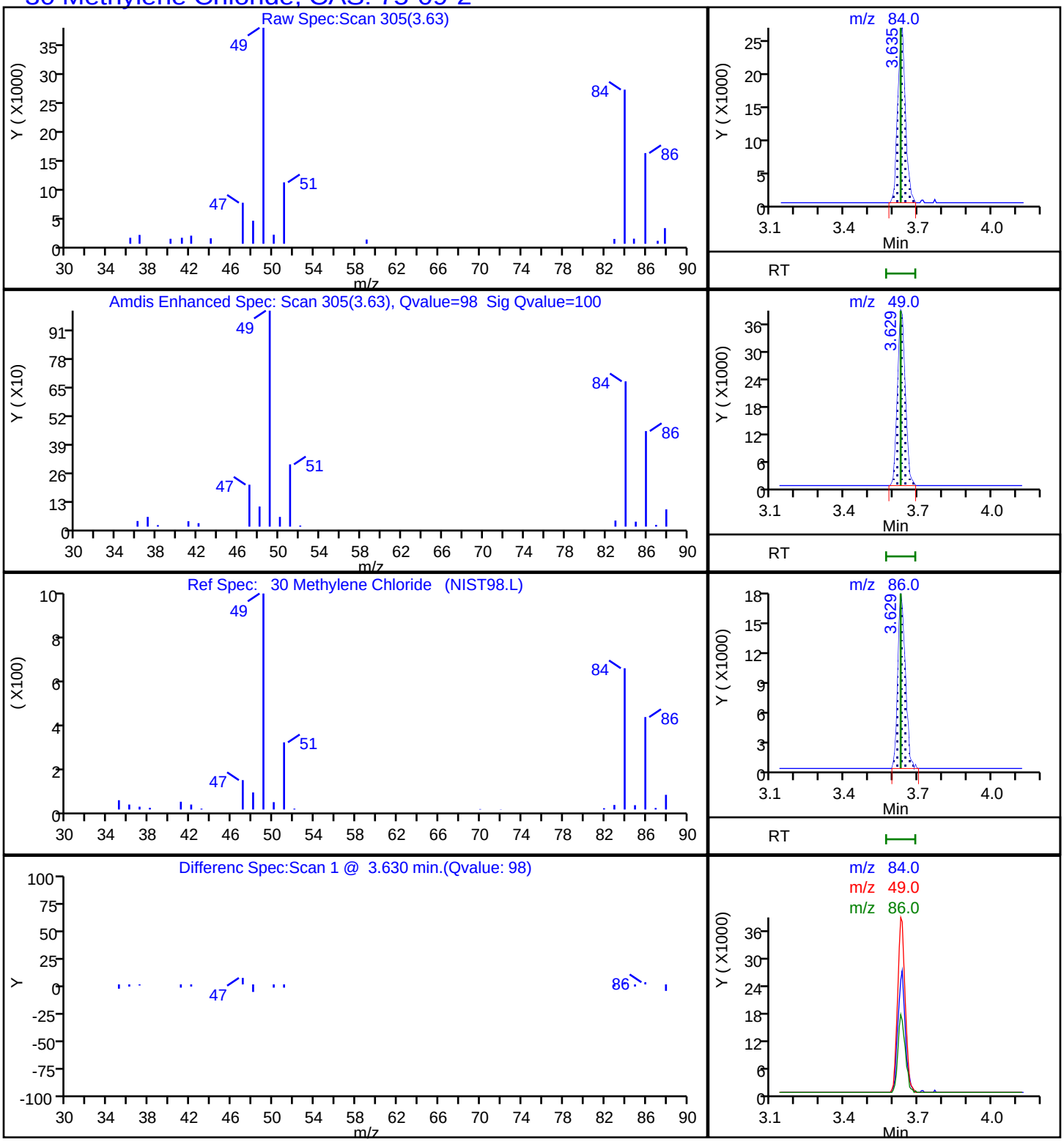
Report Date: 18-Feb-2021 17:40:50 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210218-96726.b\F0690.D

Injection Date:	18-Feb-2021 11:39:30	Instrument ID:	HP5973F		
Lims ID:	480-181249-B-3-E	Lab Sample ID:	480-181249-3		
Client ID:	SB-12A (4-6)				
Operator ID:	WD	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2



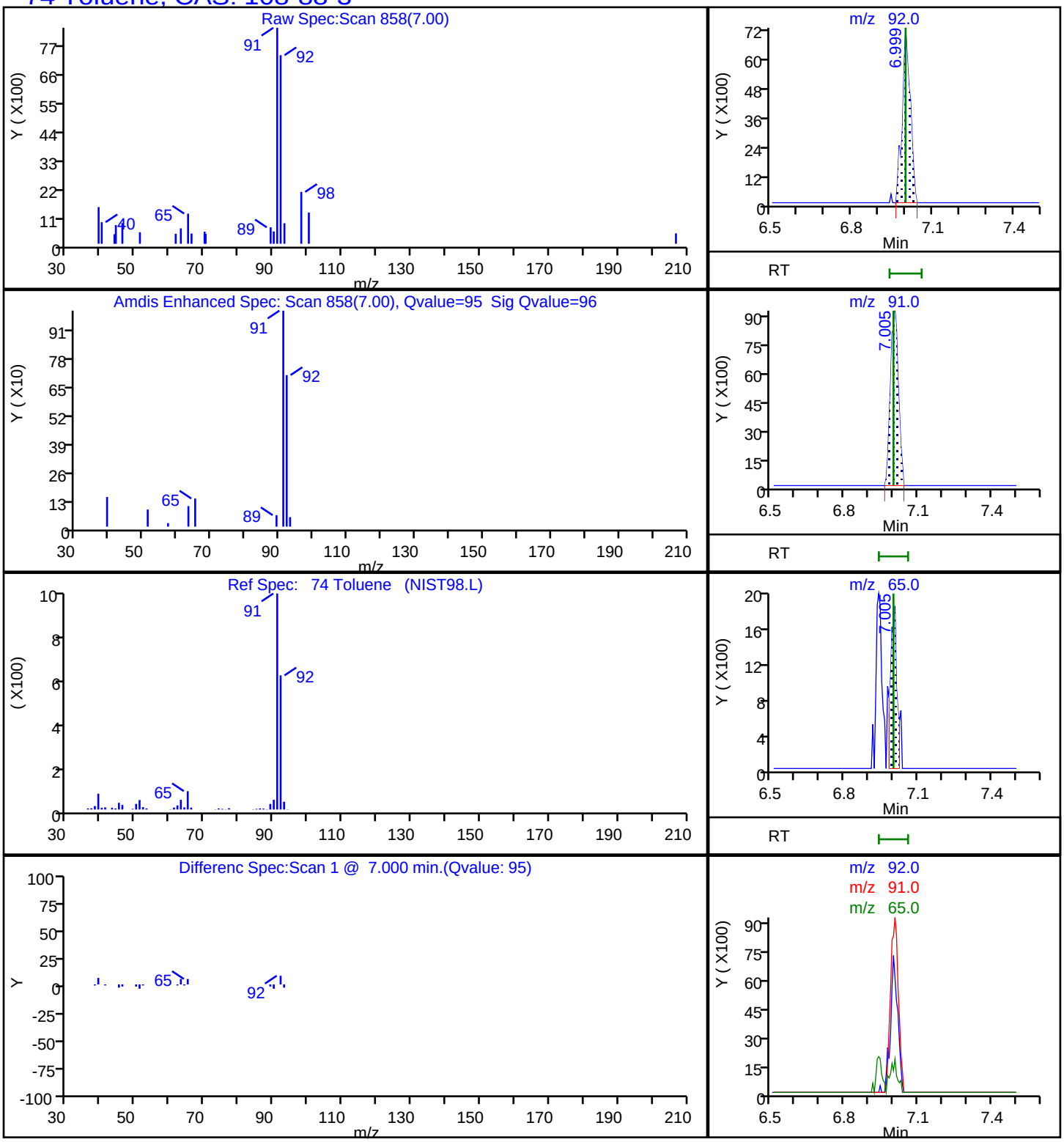
Report Date: 18-Feb-2021 17:40:50 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210218-96726.b\F0690.D

Injection Date:	18-Feb-2021 11:39:30	Instrument ID:	HP5973F
Lims ID:	480-181249-B-3-E	Lab Sample ID:	480-181249-3
Client ID:	SB-12A (4-6)		
Operator ID:	WD	ALS Bottle#:	8 Worklist Smp#: 8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

74 Toluene, CAS: 108-88-3



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

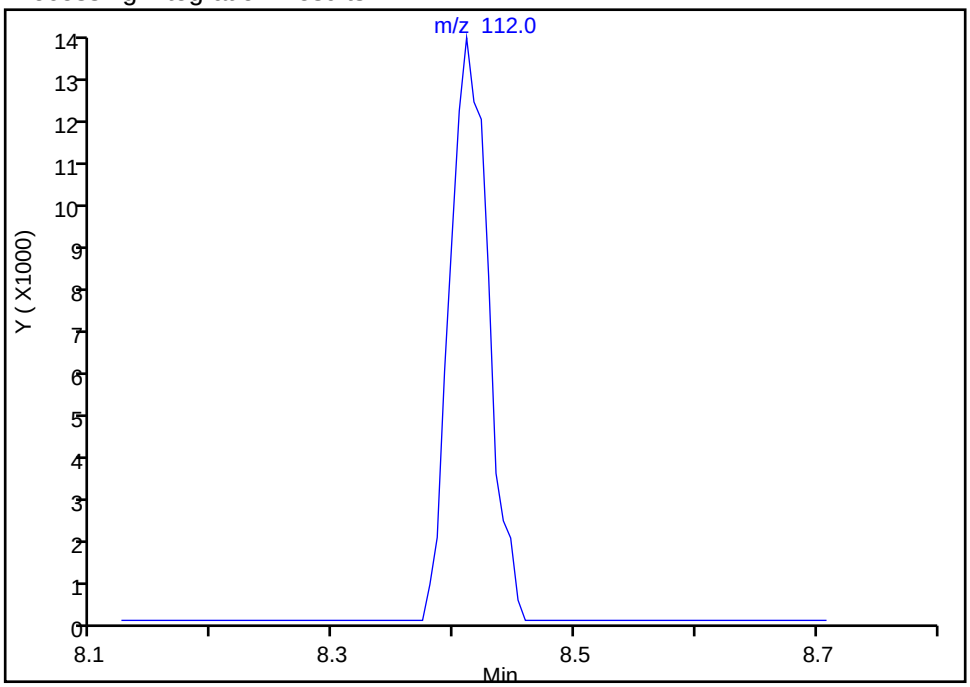
Data File:	\\chromfs\Buffalo\ChromData\HP5973F\20210218-96726.b\F0690.D				
Injection Date:	18-Feb-2021 11:39:30	Instrument ID:	HP5973F		
Lims ID:	480-181249-B-3-E	Lab Sample ID:	480-181249-3		
Client ID:	SB-12A (4-6)				
Operator ID:	WD	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

87 Chlorobenzene, CAS: 108-90-7

Signal: 1

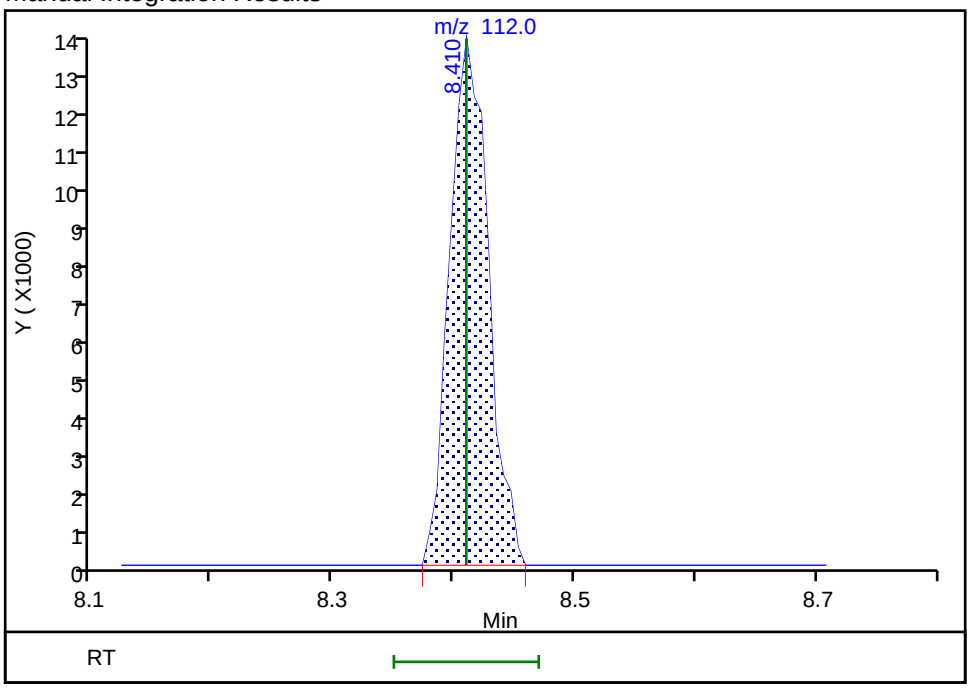
Not Detected
Expected RT: 8.41

Processing Integration Results



Manual Integration Results

RT: 8.41
Area: 29433
Amount: 1.819572
Amount Units: ug/kg



Reviewer: dahnw, 18-Feb-2021 12:28:45
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12A (13-15) | Lab Sample ID: 480-181249-4

Matrix: Solid | Lab File ID: F0666.D

Analysis Method: 8260C | Date Collected: 02/12/2021 14:16

Sample wt/vol: 5.01(g) | Date Analyzed: 02/17/2021 15:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 17.4 | Level: (low/med) Low

Analysis Batch No.: 569734 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	6.0	U	6.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	6.0	U	6.0	0.98
79-00-5	1,1,2-Trichloroethane	6.0	U	6.0	0.79
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.0	U	6.0	1.4
75-34-3	1,1-Dichloroethane	6.0	U	6.0	0.74
75-35-4	1,1-Dichloroethene	6.0	U	6.0	0.74
120-82-1	1,2,4-Trichlorobenzene	6.0	U	6.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	6.0	U	6.0	3.0
95-50-1	1,2-Dichlorobenzene	6.0	U	6.0	0.47
107-06-2	1,2-Dichloroethane	6.0	U	6.0	0.30
78-87-5	1,2-Dichloropropane	6.0	U	6.0	3.0
541-73-1	1,3-Dichlorobenzene	6.0	U	6.0	0.31
106-46-7	1,4-Dichlorobenzene	6.0	U	6.0	0.85
78-93-3	2-Butanone (MEK)	30	U	30	2.2
591-78-6	2-Hexanone	30	U	30	3.0
108-10-1	4-Methyl-2-pentanone (MIBK)	30	U	30	2.0
67-64-1	Acetone	24	J	30	5.1
71-43-2	Benzene	6.0	U	6.0	0.30
75-27-4	Bromodichloromethane	6.0	U	6.0	0.81
75-25-2	Bromoform	6.0	U	6.0	3.0
74-83-9	Bromomethane	6.0	U	6.0	0.54
75-15-0	Carbon disulfide	6.0	U	6.0	3.0
56-23-5	Carbon tetrachloride	6.0	U	6.0	0.58
108-90-7	Chlorobenzene	6.0	U	6.0	0.80
124-48-1	Dibromochloromethane	6.0	U	6.0	0.77
75-00-3	Chloroethane	6.0	U	6.0	1.4
67-66-3	Chloroform	6.0	U	6.0	0.37
74-87-3	Chloromethane	6.0	U	6.0	0.36
156-59-2	cis-1,2-Dichloroethene	6.0	U	6.0	0.77
10061-01-5	cis-1,3-Dichloropropene	6.0	U	6.0	0.87
110-82-7	Cyclohexane	6.0	U	6.0	0.85
75-71-8	Dichlorodifluoromethane	6.0	U	6.0	0.50
100-41-4	Ethylbenzene	6.0	U	6.0	0.42
106-93-4	1,2-Dibromoethane	6.0	U	6.0	0.78
98-82-8	Isopropylbenzene	6.0	U	6.0	0.91

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12A (13-15) Lab Sample ID: 480-181249-4

Matrix: Solid Lab File ID: F0666.D

Analysis Method: 8260C Date Collected: 02/12/2021 14:16

Sample wt/vol: 5.01(g) Date Analyzed: 02/17/2021 15:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 17.4 Level: (low/med) Low

Analysis Batch No.: 569734 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	30	U	30	3.6
1634-04-4	Methyl tert-butyl ether	6.0	U	6.0	0.59
108-87-2	Methylcyclohexane	6.0	U	6.0	0.92
75-09-2	Methylene Chloride	6.0	U	6.0	2.8
100-42-5	Styrene	6.0	U	6.0	0.30
127-18-4	Tetrachloroethene	6.0	U	6.0	0.81
108-88-3	Toluene	6.0	U	6.0	0.46
156-60-5	trans-1,2-Dichloroethene	6.0	U	6.0	0.62
10061-02-6	trans-1,3-Dichloropropene	6.0	U	6.0	2.7
79-01-6	Trichloroethene	6.0	U	6.0	1.3
75-69-4	Trichlorofluoromethane	6.0	U	6.0	0.57
75-01-4	Vinyl chloride	6.0	U	6.0	0.74
1330-20-7	Xylenes, Total	12	U	12	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		64-126
460-00-4	4-Bromofluorobenzene (Surr)	108		72-126
1868-53-7	Dibromofluoromethane (Surr)	105		60-140

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210217-96701.b\F0666.D
Lims ID: 480-181249-B-4-A
Client ID: SB-12A (13-15)
Sample Type: Client
Inject. Date: 17-Feb-2021 15:38:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-181249-B-4-A
Misc. Info.: 480-0096701-012
Operator ID: WD Instrument ID: HP5973F

Method: \\chromfs\Buffalo\ChromData\HP5973F\20210217-96701.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 17-Feb-2021 14:11:55 Calib Date: 04-Feb-2021 19:06:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0423.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1657

First Level Reviewer: dahnw Date: 17-Feb-2021 16:14:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.545	5.539	0.006	98	199740	50.0	
* 2 Chlorobenzene-d5	82	8.380	8.380	0.000	87	418643	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.704	10.703	0.001	95	393513	50.0	
$ 154 Dibromofluoromethane (Surr)	113	4.991	5.003	-0.006	93	261097	52.3	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.289	5.289	0.000	98	152944	48.7	
$ 5 Toluene-d8 (Surr)	98	6.938	6.938	0.000	94	983151	49.9	
$ 6 4-Bromofluorobenzene (Surr)	174	9.596	9.596	0.000	91	319099	54.2	
10 Dichlorodifluoromethane	85		1.961				ND	
12 Chloromethane	50		2.156				ND	
13 Vinyl chloride	62		2.259				ND	
14 Bromomethane	94		2.564				ND	
15 Chloroethane	64		2.637				ND	
17 Trichlorofluoromethane	101		2.831				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.227				ND	
22 1,1-Dichloroethene	96		3.251				ND	
23 Acetone	43	3.288	3.282	0.006	96	42786	19.8	
26 Carbon disulfide	76	3.464	3.464	0.000	99	6383	0.3801	
27 Methyl acetate	43		3.513				ND	
30 Methylene Chloride	84	3.628	3.628	0.000	95	16643	0.9582	
32 Methyl tert-butyl ether	73		3.799				ND	
34 trans-1,2-Dichloroethene	96		3.829				ND	
39 1,1-Dichloroethane	63		4.164				ND	
43 2-Butanone (MEK)	43		4.596				ND	
45 cis-1,2-Dichloroethene	96		4.620				ND	
50 Chloroform	83		4.857				ND	
51 1,1,1-Trichloroethane	97		5.021				ND	
52 Cyclohexane	56		5.064				ND	
55 Carbon tetrachloride	117		5.155				ND	
57 Benzene	78		5.332				ND	
58 1,2-Dichloroethane	62		5.350				ND	
62 Trichloroethene	95		5.855				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
64 Methylcyclohexane	83		6.007				ND	
65 1,2-Dichloropropane	63		6.068				ND	
68 Dichlorobromomethane	83		6.299				ND	
72 cis-1,3-Dichloropropene	75		6.694				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.786				ND	
74 Toluene	92		6.999				ND	
77 trans-1,3-Dichloropropene	75		7.205				ND	
79 1,1,2-Trichloroethane	83		7.400				ND	
81 Tetrachloroethene	166		7.534				ND	
80 2-Hexanone	43		7.583				ND	
83 Chlorodibromomethane	129		7.814				ND	
84 Ethylene Dibromide	107		7.948				ND	
87 Chlorobenzene	112		8.416				ND	
88 Ethylbenzene	91		8.483				ND	
90 m-Xylene & p-Xylene	106		8.599				ND	
91 o-Xylene	106		9.031				ND	
92 Styrene	104		9.049				ND	
95 Bromoform	173		9.304				ND	
94 Isopropylbenzene	105		9.396				ND	
97 1,1,2,2-Tetrachloroethane	83		9.736				ND	
111 1,3-Dichlorobenzene	146		10.643				ND	
113 1,4-Dichlorobenzene	146		10.722				ND	7
116 1,2-Dichlorobenzene	146		11.062				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.732				ND	
119 1,2,4-Trichlorobenzene	180		12.395				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

F 8260 IS/SS_00117 Amount Added: 1.00 Units: uL Run Reagent

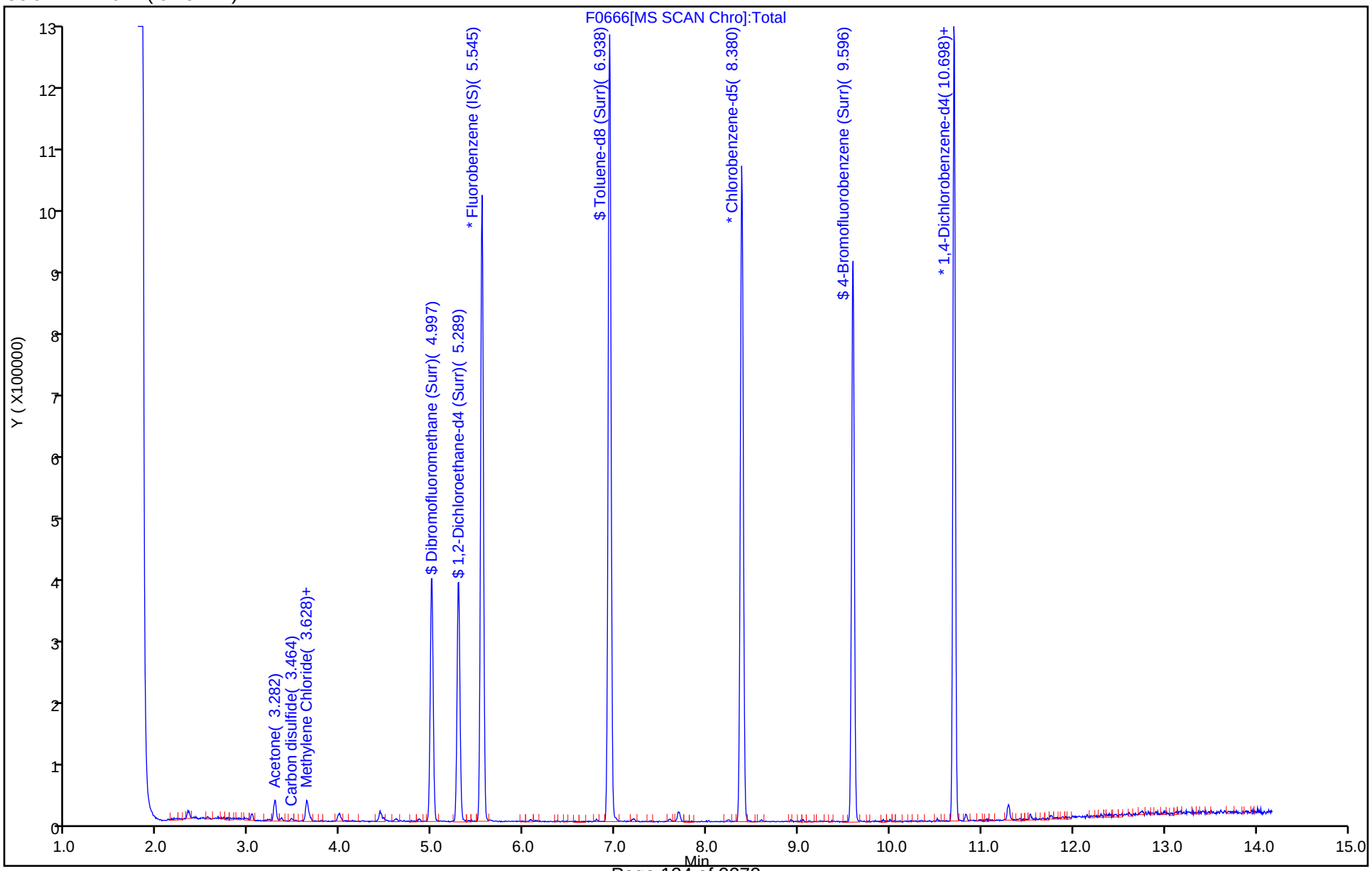
Report Date: 17-Feb-2021 16:14:51 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210217-96701.b\F0666.D

Injection Date:	17-Feb-2021 15:38:30	Instrument ID:	HP5973F	Operator ID:	WD
Lims ID:	480-181249-B-4-A	Lab Sample ID:	480-181249-4	Worklist Smp#:	12
Client ID:	SB-12A (13-15)				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



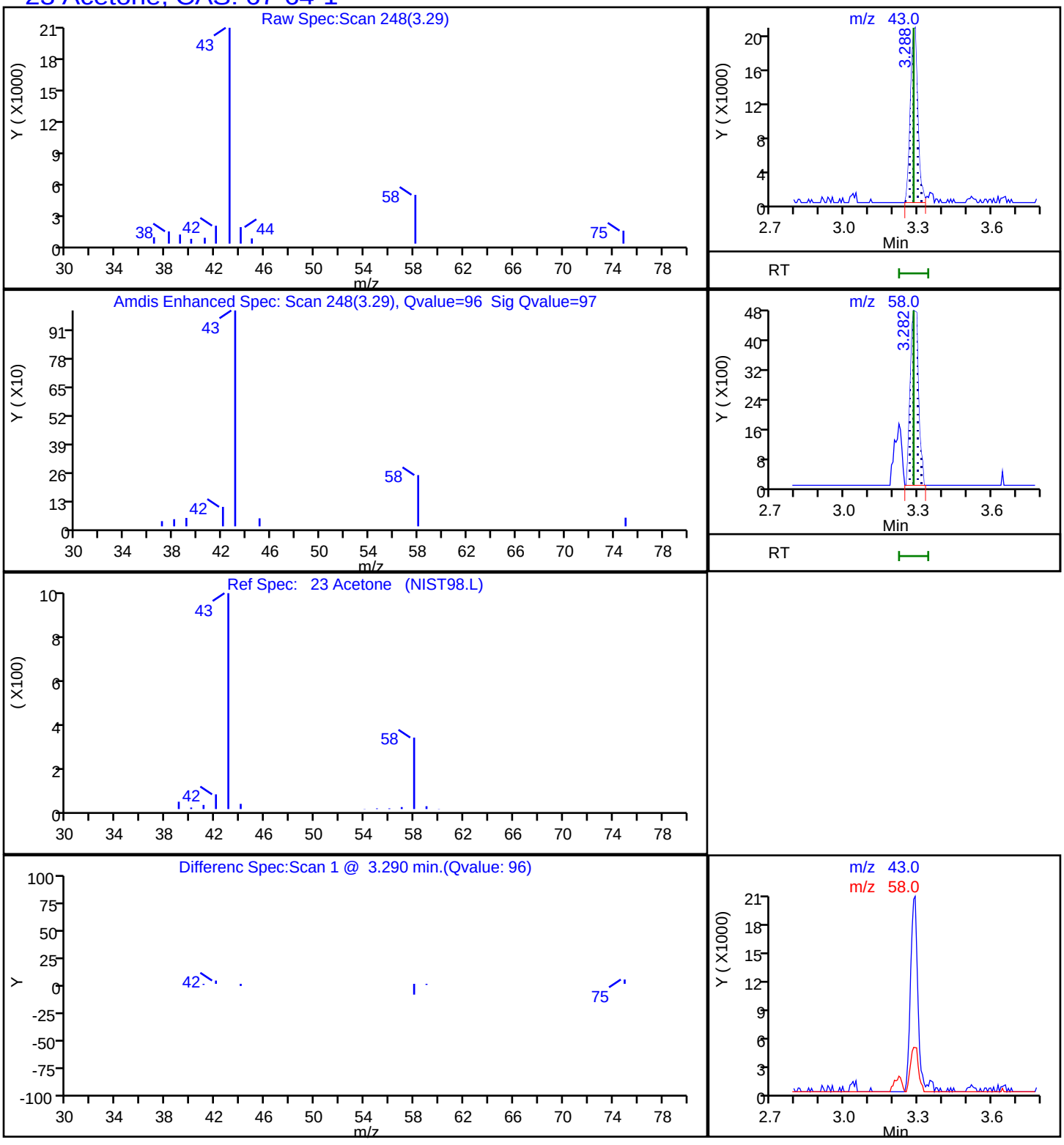
Report Date: 17-Feb-2021 16:14:51 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210217-96701.b\F0666.D

Injection Date:	17-Feb-2021 15:38:30	Instrument ID:	HP5973F		
Lims ID:	480-181249-B-4-A	Lab Sample ID:	480-181249-4		
Client ID:	SB-12A (13-15)				
Operator ID:	WD	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-181249-1

SDG No.:

Client Sample ID: EB-20210210 | Lab Sample ID: 480-181249-5

Matrix: Water | Lab File ID: L6305.D

Analysis Method: 8260C | Date Collected: 02/10/2021 11:00

Sample wt/vol: 5(mL) | Date Analyzed: 02/17/2021 12:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 569749 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.79
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.78
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	10	U	10	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	3.2	J	10	3.0
71-43-2	Benzene	1.0	U	1.0	0.41
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-25-2	Bromoform	1.0	U	1.0	0.26
74-83-9	Bromomethane	1.0	U	1.0	0.69
75-15-0	Carbon disulfide	1.0	U	1.0	0.19
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.75
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.34
74-87-3	Chloromethane	1.0	U	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
110-82-7	Cyclohexane	1.0	U	1.0	0.18
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: EB-20210210 Lab Sample ID: 480-181249-5

Matrix: Water Lab File ID: L6305.D

Analysis Method: 8260C Date Collected: 02/10/2021 11:00

Sample wt/vol: 5(mL) Date Analyzed: 02/17/2021 12:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 569749 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		77-120
460-00-4	4-Bromofluorobenzene (Surr)	89		73-120
1868-53-7	Dibromofluoromethane (Surr)	94		75-123

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210217-96706.b\L6305.D
Lims ID: 480-181249-D-5
Client ID: EB-02210210
Sample Type: Client
Inject. Date: 17-Feb-2021 12:54:25 ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-181249-D-5
Misc. Info.: 480-0096706-008
Operator ID: OI Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20210217-96706.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Feb-2021 08:53:35 Calib Date: 18-Jan-2021 22:35:42
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5867.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1615

First Level Reviewer: lapointec Date: 18-Feb-2021 08:53:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.482	6.482	0.000	99	150582	25.0	
* 2 Chlorobenzene-d5	117	9.443	9.443	0.000	86	625025	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.736	11.736	0.000	96	337916	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.910	5.909	0.000	93	197499	23.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.228	6.225	0.003	98	225599	22.3	
$ 6 Toluene-d8 (Surr)	98	7.948	7.945	0.003	94	738795	24.9	
$ 7 4-Bromofluorobenzene (Surr)	174	10.652	10.652	0.000	99	241998	22.1	
10 Dichlorodifluoromethane	85		2.170				ND	
13 Chloromethane	50		2.434				ND	
14 Vinyl chloride	62		2.559				ND	
18 Bromomethane	94		2.958				ND	
19 Chloroethane	64		3.054				ND	
21 Trichlorofluoromethane	101		3.299				ND	
29 112TCTFE	101		3.807				ND	
30 1,1-Dichloroethene	96		3.836				ND	
31 Acetone	43	3.939	3.932	0.007	96	10384	3.17	
35 Carbon disulfide	76		4.080				ND	
38 Methyl acetate	43		4.209				ND	U
39 Methylene Chloride	84		4.334				ND	7
41 Methyl tert-butyl ether	73		4.514				ND	
42 trans-1,2-Dichloroethene	96		4.556				ND	
50 1,1-Dichloroethane	63		4.955				ND	
58 cis-1,2-Dichloroethene	96		5.479				ND	
57 2-Butanone (MEK)	43		5.479				ND	U
62 Chloroform	83		5.759				ND	7
64 1,1,1-Trichloroethane	97		5.900				ND	
65 Cyclohexane	56		5.919				ND	
66 Carbon tetrachloride	117		6.038				ND	
70 Benzene	78		6.244				ND	
72 1,2-Dichloroethane	62		6.296				ND	
75 Trichloroethene	95		6.810				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
76 Methylcyclohexane	83		6.942				ND	
77 1,2-Dichloropropane	63		7.054				ND	
83 Dichlorobromomethane	83		7.318				ND	
85 cis-1,3-Dichloropropene	75		7.714				ND	
87 4-Methyl-2-pentanone (MIBK)	43		7.820				ND	
88 Toluene	92		8.013				ND	
91 trans-1,3-Dichloropropene	75		8.257				ND	
93 1,1,2-Trichloroethane	83		8.463				ND	
94 Tetrachloroethene	166		8.550				ND	
96 2-Hexanone	43		8.640				ND	
98 Chlorodibromomethane	129		8.884				ND	
101 Ethylene Dibromide	107		9.019				ND	
103 Chlorobenzene	112		9.476				ND	
104 Ethylbenzene	91		9.533				ND	
106 m-Xylene & p-Xylene	106		9.646				ND	
107 o-Xylene	106		10.086				ND	
109 Styrene	104		10.109				ND	
110 Bromoform	173		10.389				ND	
111 Isopropylbenzene	105		10.437				ND	
112 1,1,2,2-Tetrachloroethane	83		10.810				ND	
124 1,3-Dichlorobenzene	146		11.678				ND	
126 1,4-Dichlorobenzene	146		11.755				ND	
128 1,2-Dichlorobenzene	146		12.099				ND	
129 1,2-Dibromo-3-Chloropropane	75		12.775				ND	
130 1,2,4-Trichlorobenzene	180		13.440				ND	
S 143 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

L_8260_SURR_00023	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00024	Amount Added:	2.00	Units: uL	Run Reagent

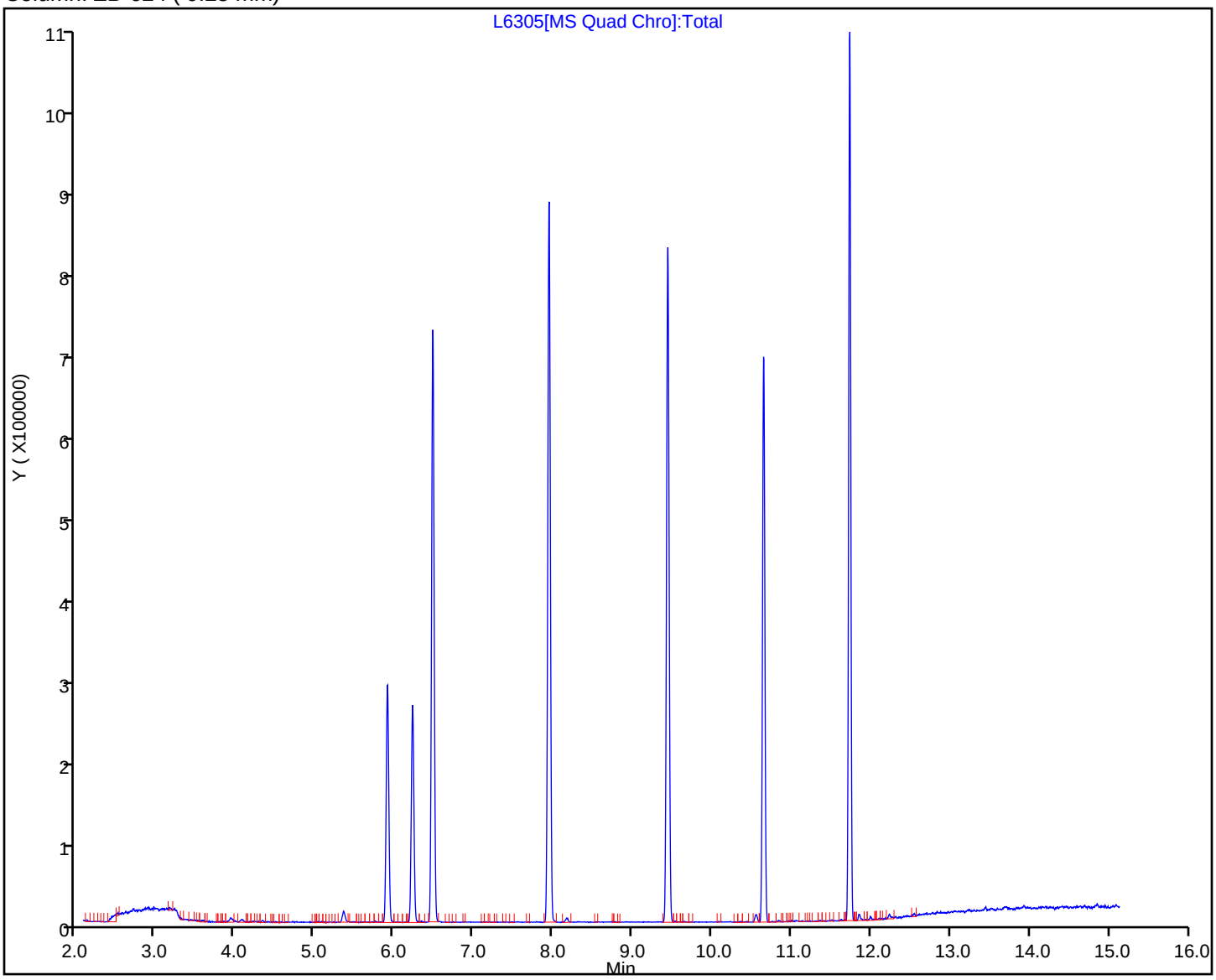
Report Date: 18-Feb-2021 08:53:35 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210217-96706.b\L6305.D

Injection Date:	17-Feb-2021 12:54:25	Instrument ID:	HP5977L		
Lims ID:	480-181249-D-5	Lab Sample ID:	480-181249-5		
Client ID:	EB-02210210				
Operator ID:	OI	ALS Bottle#:	0	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



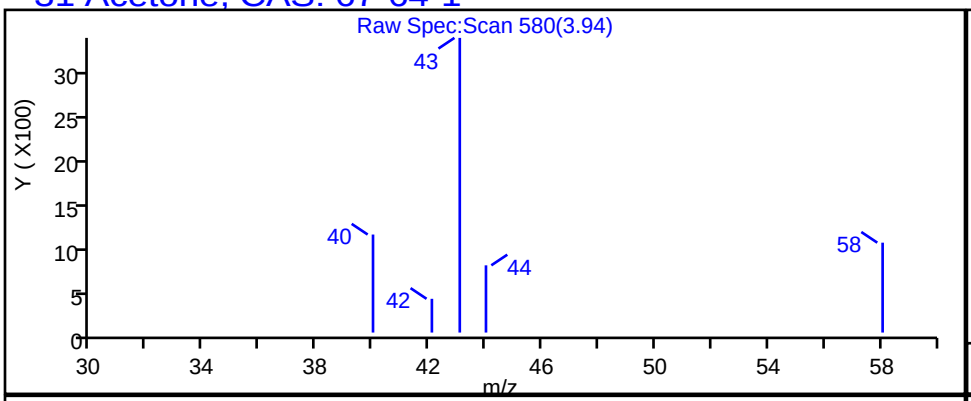
Report Date: 18-Feb-2021 08:53:35 Chrom Revision: 2.3 05-Feb-2021 00:13:28

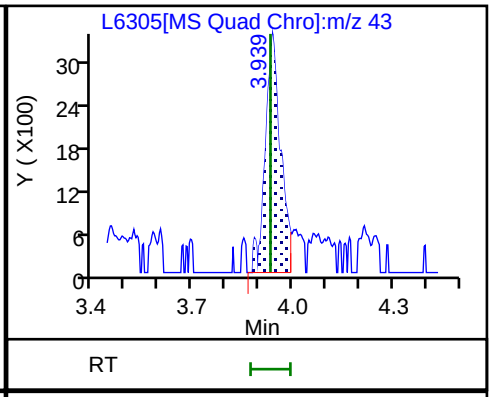
Eurofins TestAmerica, Buffalo

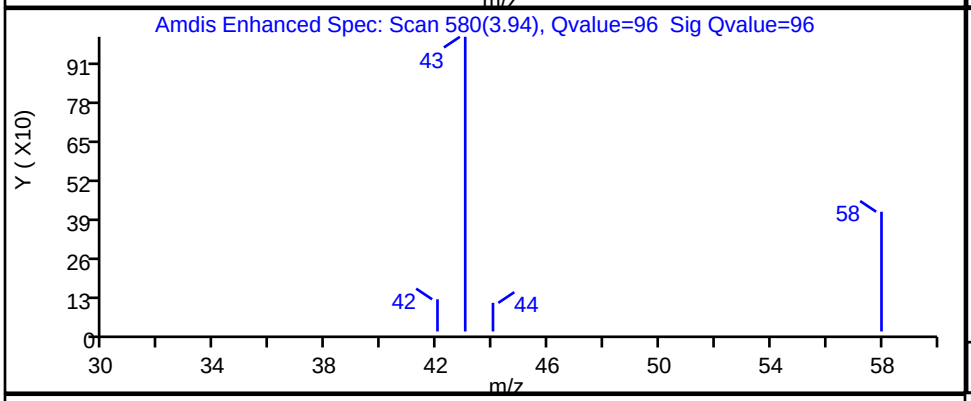
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210217-96706.b\L6305.D

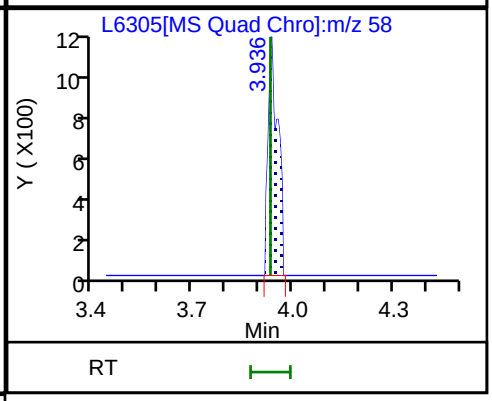
Injection Date:	17-Feb-2021 12:54:25	Instrument ID:	HP5977L		
Lims ID:	480-181249-D-5	Lab Sample ID:	480-181249-5		
Client ID:	EB-02210210				
Operator ID:	OI	ALS Bottle#:	0	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

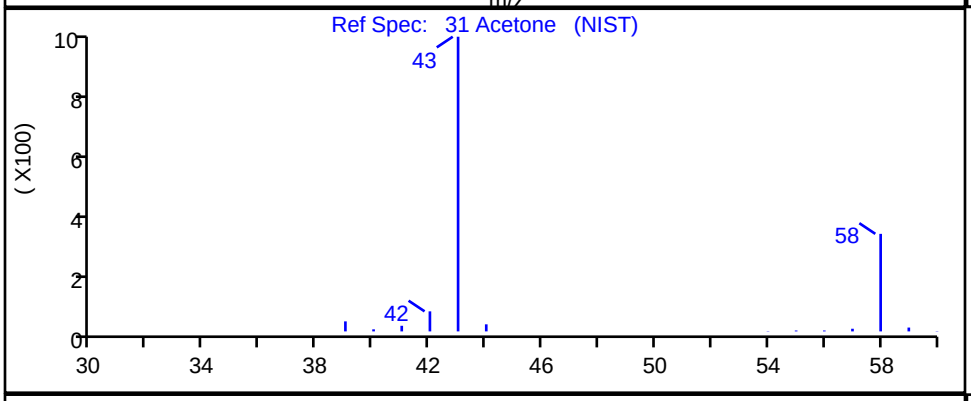
31 Acetone, CAS: 67-64-1

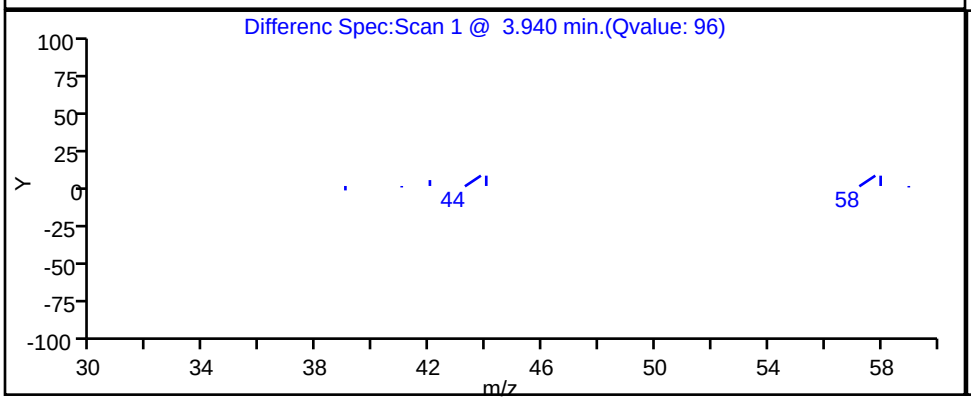


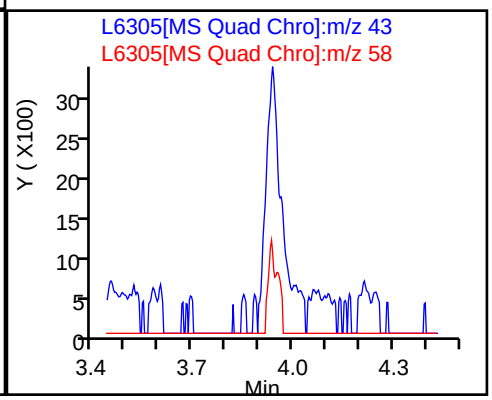












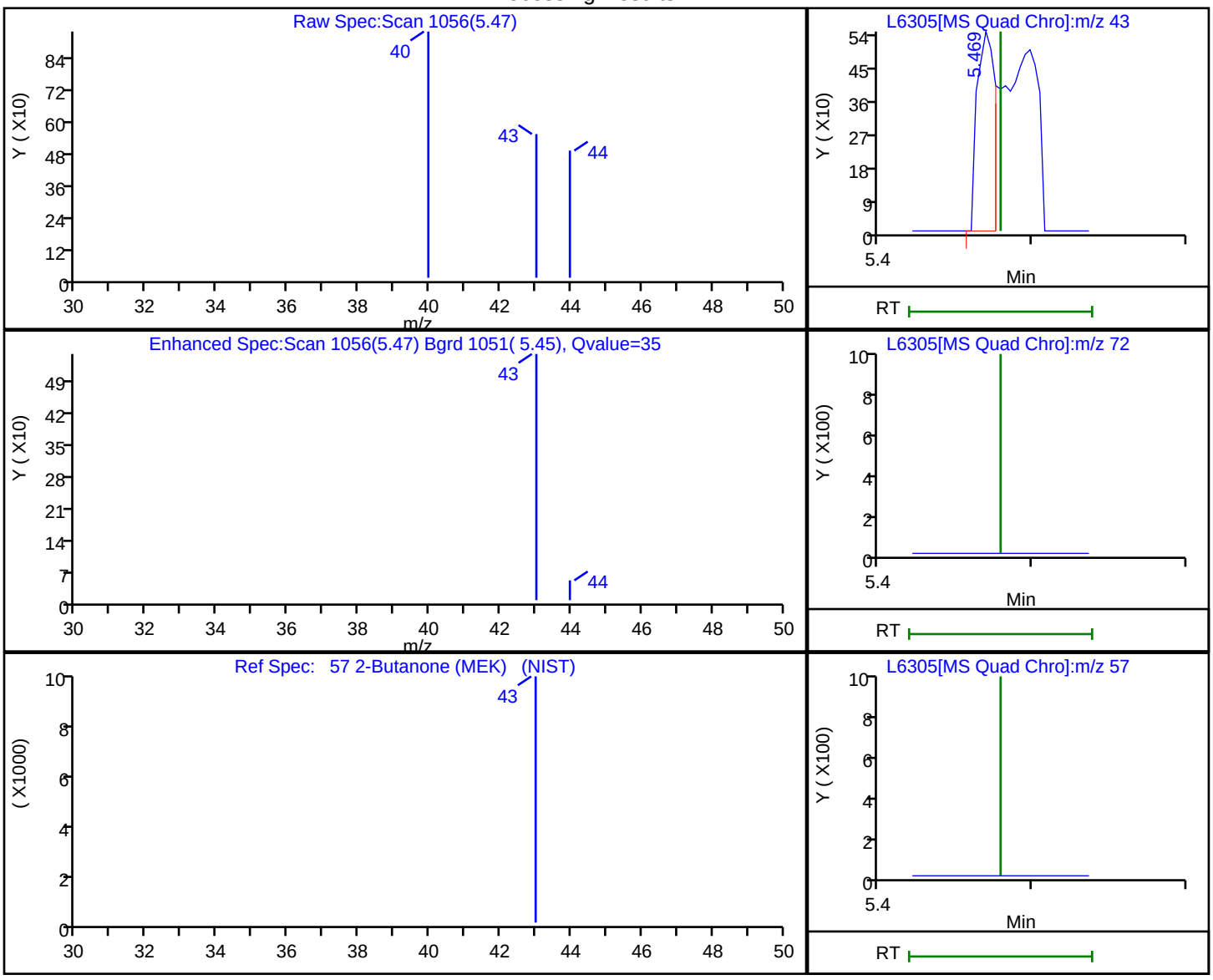
User Disabled Compound Report

Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20210217-96706.b\L6305.D				
Injection Date:	17-Feb-2021 12:54:25	Instrument ID:	HP5977L		
Lims ID:	480-181249-D-5	Lab Sample ID:	480-181249-5		
Client ID:	EB-02210210				
Operator ID:	OI	ALS Bottle#:	0	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

57 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
5.47	43.00	444	0.089910
5.48	72.00	0	
5.48	57.00	0	

Reviewer: lapointec, 18-Feb-2021 08:52:29

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

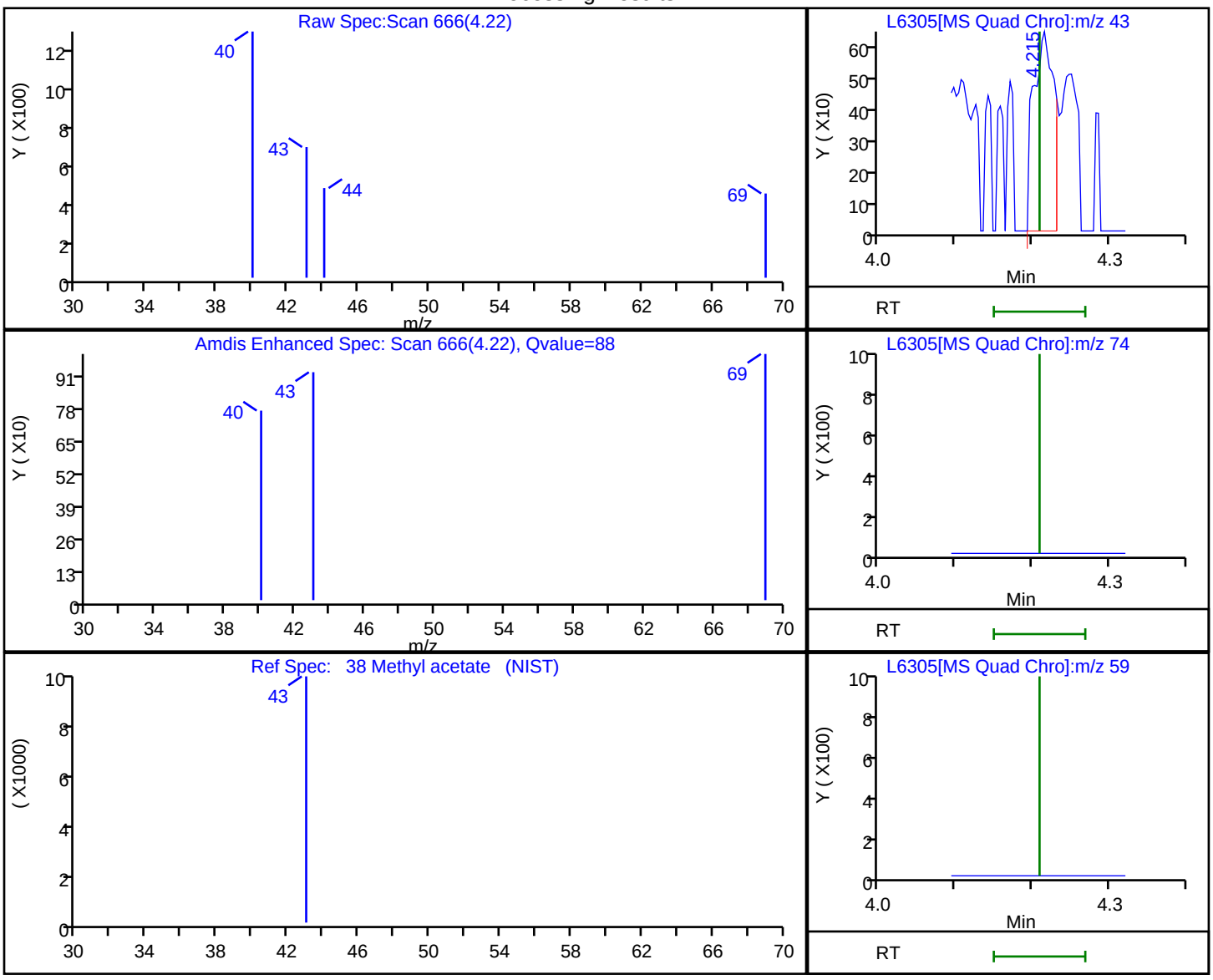
User Disabled Compound Report

Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20210217-96706.b\L6305.D				
Injection Date:	17-Feb-2021 12:54:25	Instrument ID:	HP5977L		
Lims ID:	480-181249-D-5	Lab Sample ID:	480-181249-5		
Client ID:	EB-02210210				
Operator ID:	OI	ALS Bottle#:	0	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

38 Methyl acetate, CAS: 79-20-9

Processing Results



RT	Mass	Response	Amount
4.22	43.00	1191	0.163071
4.21	74.00	0	
4.21	59.00	0	

Reviewer: lapointec, 18-Feb-2021 08:52:23

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-181249-1

SDG No.:

Client Sample ID: DUP-SB (13-15) | Lab Sample ID: 480-181249-6

Matrix: Solid | Lab File ID: F0667.D

Analysis Method: 8260C | Date Collected: 02/12/2021 14:16

Sample wt/vol: 5.02(g) | Date Analyzed: 02/17/2021 16:04

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 19.4 | Level: (low/med) Low

Analysis Batch No.: 569734 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	6.2	U	6.2	0.45
79-34-5	1,1,2,2-Tetrachloroethane	6.2	U	6.2	1.0
79-00-5	1,1,2-Trichloroethane	6.2	U	6.2	0.80
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.2	U	6.2	1.4
75-34-3	1,1-Dichloroethane	6.2	U	6.2	0.75
75-35-4	1,1-Dichloroethene	6.2	U	6.2	0.76
120-82-1	1,2,4-Trichlorobenzene	6.2	U	6.2	0.38
96-12-8	1,2-Dibromo-3-Chloropropane	6.2	U	6.2	3.1
95-50-1	1,2-Dichlorobenzene	6.2	U	6.2	0.48
107-06-2	1,2-Dichloroethane	6.2	U	6.2	0.31
78-87-5	1,2-Dichloropropane	6.2	U	6.2	3.1
541-73-1	1,3-Dichlorobenzene	6.2	U	6.2	0.32
106-46-7	1,4-Dichlorobenzene	6.2	U	6.2	0.87
78-93-3	2-Butanone (MEK)	31	U	31	2.3
591-78-6	2-Hexanone	31	U	31	3.1
108-10-1	4-Methyl-2-pentanone (MIBK)	31	U	31	2.0
67-64-1	Acetone	16	J	31	5.2
71-43-2	Benzene	6.2	U	6.2	0.30
75-27-4	Bromodichloromethane	6.2	U	6.2	0.83
75-25-2	Bromoform	6.2	U	6.2	3.1
74-83-9	Bromomethane	6.2	U	6.2	0.56
75-15-0	Carbon disulfide	6.2	U	6.2	3.1
56-23-5	Carbon tetrachloride	6.2	U	6.2	0.60
108-90-7	Chlorobenzene	6.2	U	6.2	0.82
124-48-1	Dibromochloromethane	6.2	U	6.2	0.79
75-00-3	Chloroethane	6.2	U	6.2	1.4
67-66-3	Chloroform	6.2	U	6.2	0.38
74-87-3	Chloromethane	6.2	U	6.2	0.37
156-59-2	cis-1,2-Dichloroethene	6.2	U	6.2	0.79
10061-01-5	cis-1,3-Dichloropropene	6.2	U	6.2	0.89
110-82-7	Cyclohexane	6.2	U	6.2	0.87
75-71-8	Dichlorodifluoromethane	6.2	U	6.2	0.51
100-41-4	Ethylbenzene	6.2	U	6.2	0.43
106-93-4	1,2-Dibromoethane	6.2	U	6.2	0.79
98-82-8	Isopropylbenzene	6.2	U	6.2	0.93

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: DUP-SB (13-15) Lab Sample ID: 480-181249-6

Matrix: Solid Lab File ID: F0667.D

Analysis Method: 8260C Date Collected: 02/12/2021 14:16

Sample wt/vol: 5.02(g) Date Analyzed: 02/17/2021 16:04

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 19.4 Level: (low/med) Low

Analysis Batch No.: 569734 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	31	U	31	3.7
1634-04-4	Methyl tert-butyl ether	6.2	U	6.2	0.61
108-87-2	Methylcyclohexane	6.2	U	6.2	0.94
75-09-2	Methylene Chloride	6.2	U	6.2	2.8
100-42-5	Styrene	6.2	U	6.2	0.31
127-18-4	Tetrachloroethene	6.2	U	6.2	0.83
108-88-3	Toluene	6.2	U	6.2	0.47
156-60-5	trans-1,2-Dichloroethene	6.2	U	6.2	0.64
10061-02-6	trans-1,3-Dichloropropene	6.2	U	6.2	2.7
79-01-6	Trichloroethene	6.2	U	6.2	1.4
75-69-4	Trichlorofluoromethane	6.2	U	6.2	0.58
75-01-4	Vinyl chloride	6.2	U	6.2	0.75
1330-20-7	Xylenes, Total	12	U	12	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		64-126
460-00-4	4-Bromofluorobenzene (Surr)	107		72-126
1868-53-7	Dibromofluoromethane (Surr)	110		60-140

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210217-96701.b\F0667.D
Lims ID: 480-181249-B-6-A
Client ID: DUP-SB (13-15)
Sample Type: Client
Inject. Date: 17-Feb-2021 16:04:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-181249-B-6-A
Misc. Info.: 480-0096701-013
Operator ID: WD Instrument ID: HP5973F

Method: \\chromfs\Buffalo\ChromData\HP5973F\20210217-96701.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 17-Feb-2021 14:17:44 Calib Date: 04-Feb-2021 19:06:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0423.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1657

First Level Reviewer: dahnw Date: 17-Feb-2021 16:19:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.545	5.539	0.006	98	187560	50.0	
* 2 Chlorobenzene-d5	82	8.380	8.380	0.000	88	376342	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.704	10.703	0.001	96	366005	50.0	
$ 154 Dibromofluoromethane (Surr)	113	4.991	5.003	-0.006	93	258701	55.2	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.289	5.289	0.000	99	147507	50.0	
$ 5 Toluene-d8 (Surr)	98	6.938	6.938	0.000	93	874547	49.4	
$ 6 4-Bromofluorobenzene (Surr)	174	9.597	9.597	0.001	90	282767	53.4	
10 Dichlorodifluoromethane	85		1.961				ND	
12 Chloromethane	50		2.156				ND	
13 Vinyl chloride	62		2.259				ND	
14 Bromomethane	94		2.564				ND	
15 Chloroethane	64		2.637				ND	
17 Trichlorofluoromethane	101		2.831				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.227				ND	
22 1,1-Dichloroethene	96		3.251				ND	
23 Acetone	43	3.282	3.282	0.000	98	26153	12.9	
26 Carbon disulfide	76		3.464				ND	
27 Methyl acetate	43		3.513				ND	
30 Methylene Chloride	84	3.629	3.628	0.001	97	16010	1.02	
32 Methyl tert-butyl ether	73		3.799				ND	
34 trans-1,2-Dichloroethene	96		3.829				ND	
39 1,1-Dichloroethane	63		4.164				ND	
43 2-Butanone (MEK)	43		4.596				ND	
45 cis-1,2-Dichloroethene	96		4.620				ND	
50 Chloroform	83		4.857				ND	
51 1,1,1-Trichloroethane	97		5.021				ND	
52 Cyclohexane	56		5.064				ND	
55 Carbon tetrachloride	117		5.155				ND	
57 Benzene	78		5.332				ND	
58 1,2-Dichloroethane	62		5.350				ND	
62 Trichloroethene	95		5.855				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
64 Methylcyclohexane	83		6.007				ND	
65 1,2-Dichloropropane	63		6.068				ND	
68 Dichlorobromomethane	83		6.299				ND	
72 cis-1,3-Dichloropropene	75		6.694				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.786				ND	
74 Toluene	92		6.999				ND	
77 trans-1,3-Dichloropropene	75		7.205				ND	
79 1,1,2-Trichloroethane	83		7.400				ND	
81 Tetrachloroethene	166		7.534				ND	
80 2-Hexanone	43		7.583				ND	
83 Chlorodibromomethane	129		7.814				ND	
84 Ethylene Dibromide	107		7.948				ND	
87 Chlorobenzene	112		8.416				ND	
88 Ethylbenzene	91		8.483				ND	
90 m-Xylene & p-Xylene	106		8.599				ND	
91 o-Xylene	106		9.031				ND	
92 Styrene	104		9.049				ND	
95 Bromoform	173		9.304				ND	
94 Isopropylbenzene	105		9.396				ND	
97 1,1,2,2-Tetrachloroethane	83		9.736				ND	
111 1,3-Dichlorobenzene	146		10.643				ND	
113 1,4-Dichlorobenzene	146		10.722				ND	
116 1,2-Dichlorobenzene	146		11.062				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.732				ND	
119 1,2,4-Trichlorobenzene	180		12.395				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

F 8260 IS/SS_00117 Amount Added: 1.00 Units: uL Run Reagent

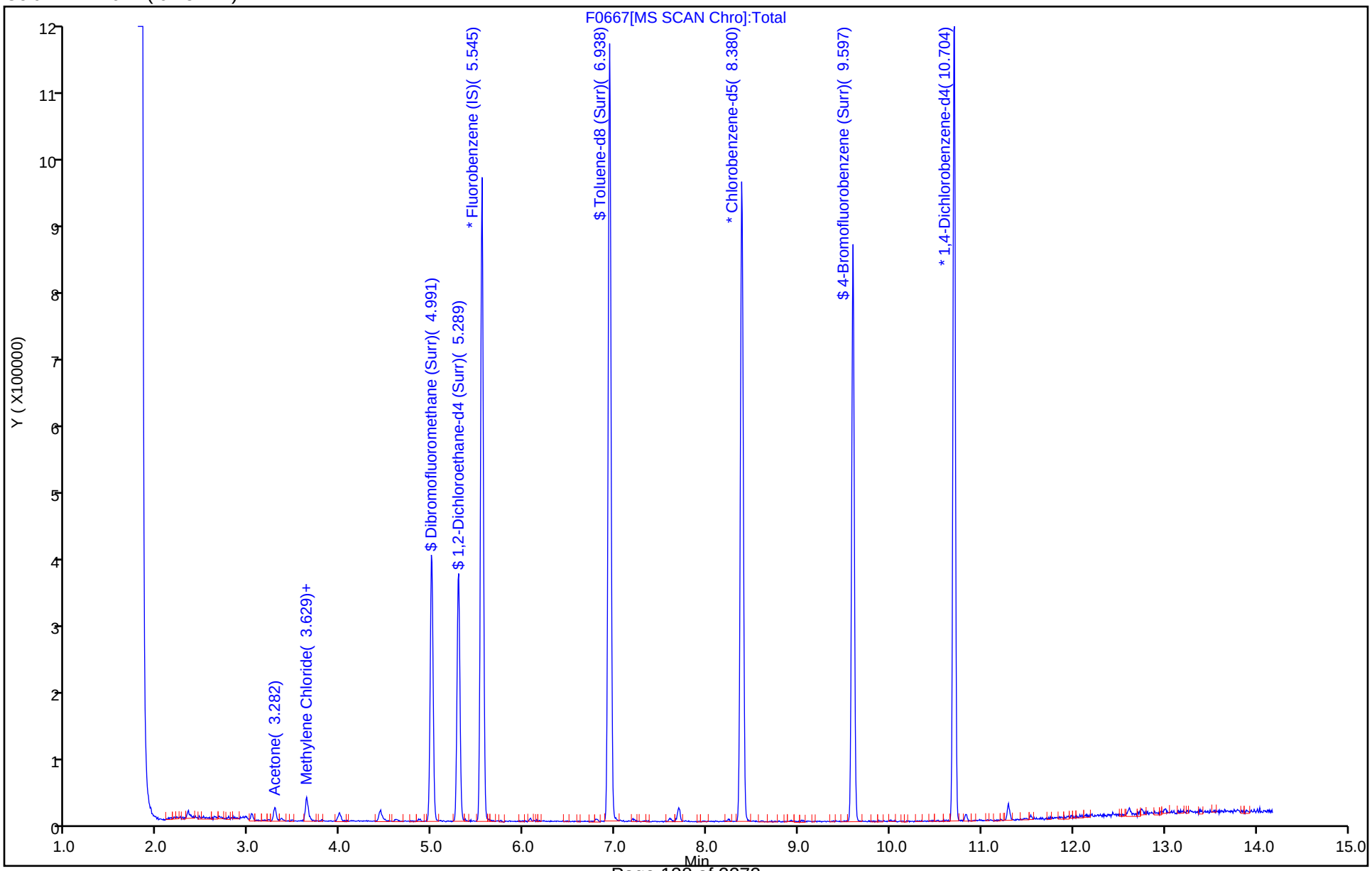
Report Date: 17-Feb-2021 16:19:58 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210217-96701.b\F0667.D

Injection Date:	17-Feb-2021 16:04:30	Instrument ID:	HP5973F	Operator ID:	WD
Lims ID:	480-181249-B-6-A	Lab Sample ID:	480-181249-6	Worklist Smp#:	13
Client ID:	DUP-SB (13-15)				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)

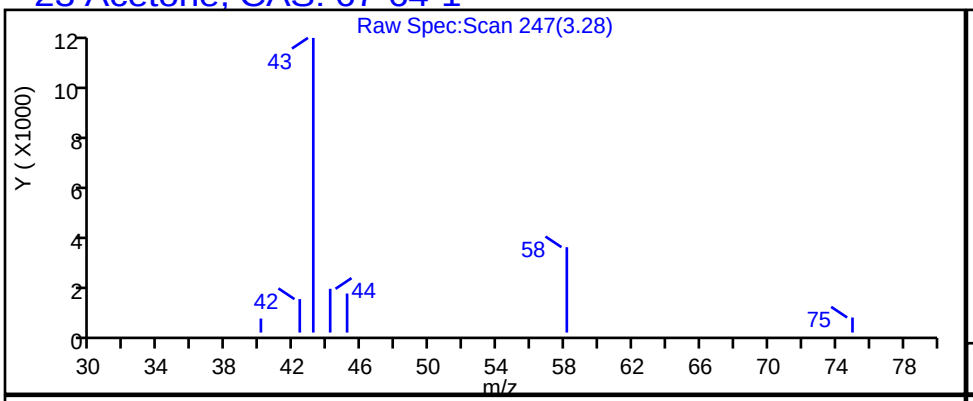


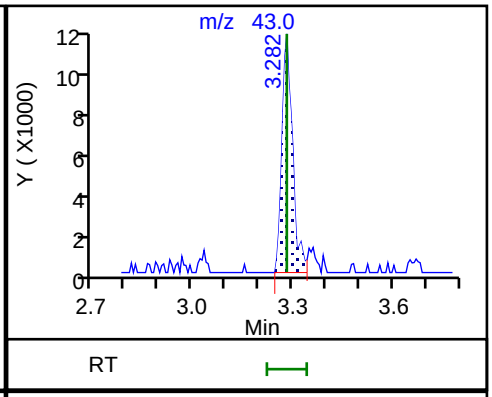
Report Date: 17-Feb-2021 16:19:58 Chrom Revision: 2.3 05-Feb-2021 00:13:28

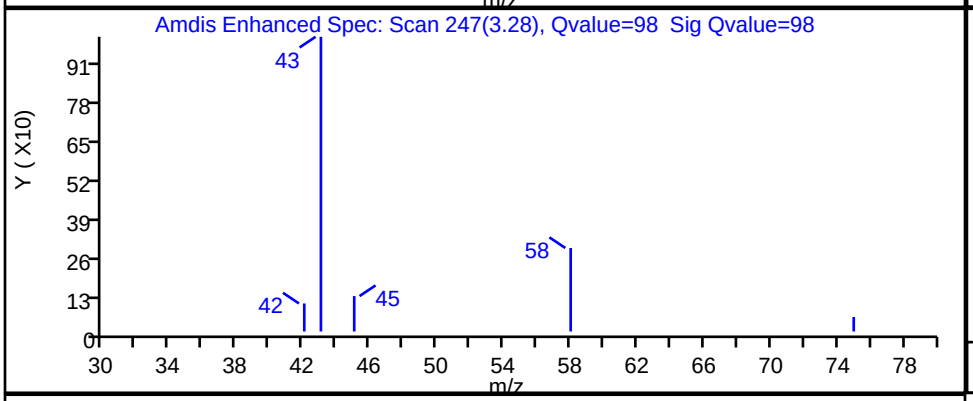
Eurofins TestAmerica, Buffalo

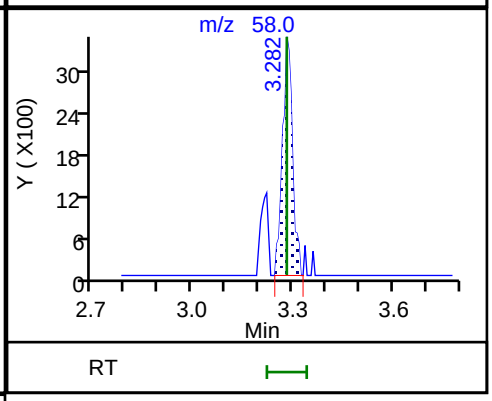
Data File:	\\chromfs\Buffalo\ChromData\HP5973F\20210217-96701.b\F0667.D				
Injection Date:	17-Feb-2021 16:04:30	Instrument ID:	HP5973F		
Lims ID:	480-181249-B-6-A	Lab Sample ID:	480-181249-6		
Client ID:	DUP-SB (13-15)				
Operator ID:	WD	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

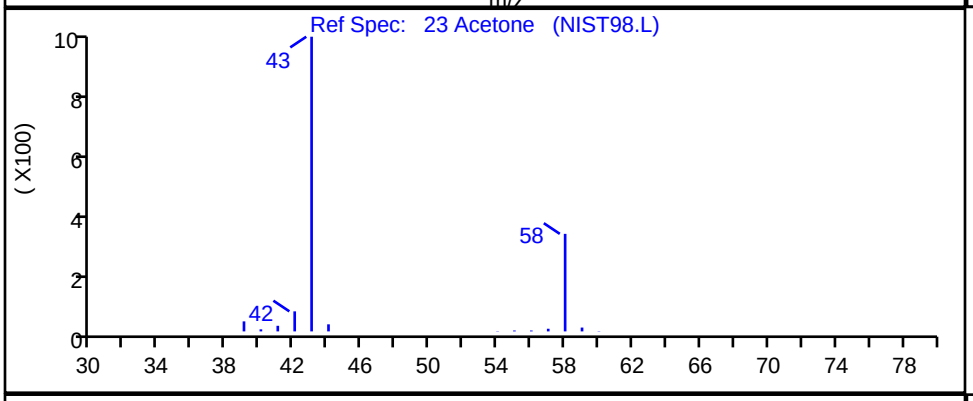
23 Acetone, CAS: 67-64-1

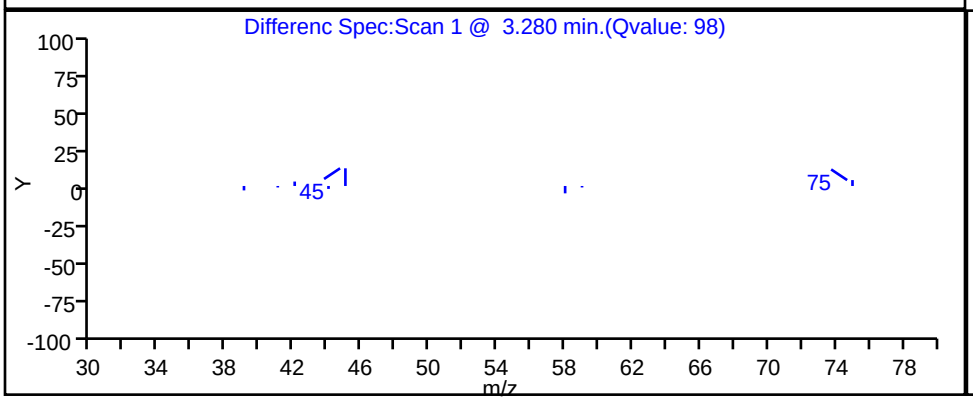


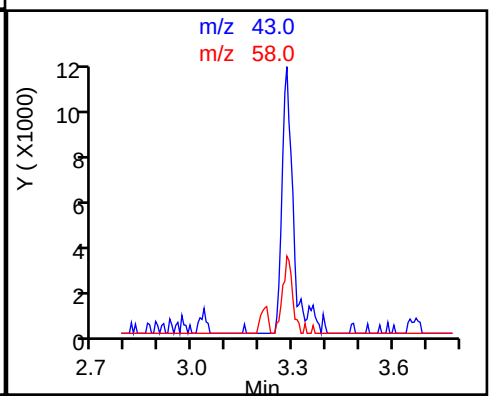












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: TB-20210210 Lab Sample ID: 480-181249-7

Matrix: Water Lab File ID: L6306.D

Analysis Method: 8260C Date Collected: 02/10/2021 00:00

Sample wt/vol: 5(mL) Date Analyzed: 02/17/2021 13:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 569749 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.79
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.78
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	10	U	10	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	10	U	10	3.0
71-43-2	Benzene	1.0	U	1.0	0.41
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-25-2	Bromoform	1.0	U	1.0	0.26
74-83-9	Bromomethane	1.0	U	1.0	0.69
75-15-0	Carbon disulfide	1.0	U	1.0	0.19
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.75
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.34
74-87-3	Chloromethane	1.0	U	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
110-82-7	Cyclohexane	1.0	U	1.0	0.18
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: TB-20210210 Lab Sample ID: 480-181249-7

Matrix: Water Lab File ID: L6306.D

Analysis Method: 8260C Date Collected: 02/10/2021 00:00

Sample wt/vol: 5(mL) Date Analyzed: 02/17/2021 13:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 569749 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		77-120
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
1868-53-7	Dibromofluoromethane (Surr)	99		75-123

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210217-96706.b\L6306.D
Lims ID: 480-181249-A-7
Client ID: TB-20210210
Sample Type: Client
Inject. Date: 17-Feb-2021 13:18:48 ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-181249-A-7
Misc. Info.: 480-0096706-009
Operator ID: OI Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20210217-96706.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Feb-2021 08:55:19 Calib Date: 18-Jan-2021 22:35:42
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5867.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1615

First Level Reviewer: lapointec Date: 18-Feb-2021 08:55:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.482	6.482	0.000	99	134095	25.0	
* 2 Chlorobenzene-d5	117	9.443	9.443	0.000	86	574108	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.736	11.736	0.000	96	315348	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.913	5.909	0.003	93	184490	24.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.228	6.225	0.003	97	213681	23.7	
$ 6 Toluene-d8 (Surr)	98	7.948	7.945	0.003	93	684746	25.1	
$ 7 4-Bromofluorobenzene (Surr)	174	10.652	10.652	0.000	98	246023	24.5	
10 Dichlorodifluoromethane	85		2.170				ND	
13 Chloromethane	50		2.434				ND	
14 Vinyl chloride	62		2.559				ND	
18 Bromomethane	94		2.958				ND	
19 Chloroethane	64		3.054				ND	
21 Trichlorofluoromethane	101		3.299				ND	
29 112TCTFE	101		3.807				ND	
30 1,1-Dichloroethene	96		3.836				ND	
31 Acetone	43		3.932				ND	U
35 Carbon disulfide	76		4.080				ND	
38 Methyl acetate	43		4.209				ND	U
39 Methylene Chloride	84		4.334				ND	U
41 Methyl tert-butyl ether	73		4.514				ND	
42 trans-1,2-Dichloroethene	96		4.556				ND	
50 1,1-Dichloroethane	63		4.955				ND	
58 cis-1,2-Dichloroethene	96		5.479				ND	
57 2-Butanone (MEK)	43		5.479				ND	
62 Chloroform	83	5.758	5.759	-0.001	61	1607	0.1023	
64 1,1,1-Trichloroethane	97		5.900				ND	
65 Cyclohexane	56		5.919				ND	
66 Carbon tetrachloride	117		6.038				ND	
70 Benzene	78		6.244				ND	
72 1,2-Dichloroethane	62		6.296				ND	
75 Trichloroethene	95		6.810				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
76 Methylcyclohexane	83		6.942				ND	
77 1,2-Dichloropropane	63		7.054				ND	
83 Dichlorobromomethane	83		7.318				ND	
85 cis-1,3-Dichloropropene	75		7.714				ND	
87 4-Methyl-2-pentanone (MIBK)	43		7.820				ND	
88 Toluene	92		8.013				ND	
91 trans-1,3-Dichloropropene	75		8.257				ND	
93 1,1,2-Trichloroethane	83		8.463				ND	
94 Tetrachloroethene	166		8.550				ND	
96 2-Hexanone	43		8.640				ND	
98 Chlorodibromomethane	129		8.884				ND	
101 Ethylene Dibromide	107		9.019				ND	
103 Chlorobenzene	112		9.476				ND	
104 Ethylbenzene	91		9.533				ND	
106 m-Xylene & p-Xylene	106		9.646				ND	
107 o-Xylene	106		10.086				ND	
109 Styrene	104		10.109				ND	
110 Bromoform	173		10.389				ND	
111 Isopropylbenzene	105		10.437				ND	
112 1,1,2,2-Tetrachloroethane	83		10.810				ND	
124 1,3-Dichlorobenzene	146		11.678				ND	U
126 1,4-Dichlorobenzene	146		11.755				ND	
128 1,2-Dichlorobenzene	146		12.099				ND	
129 1,2-Dibromo-3-Chloropropane	75		12.775				ND	
130 1,2,4-Trichlorobenzene	180		13.440				ND	
S 143 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

L_8260_SURR_00023	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00024	Amount Added:	2.00	Units: uL	Run Reagent

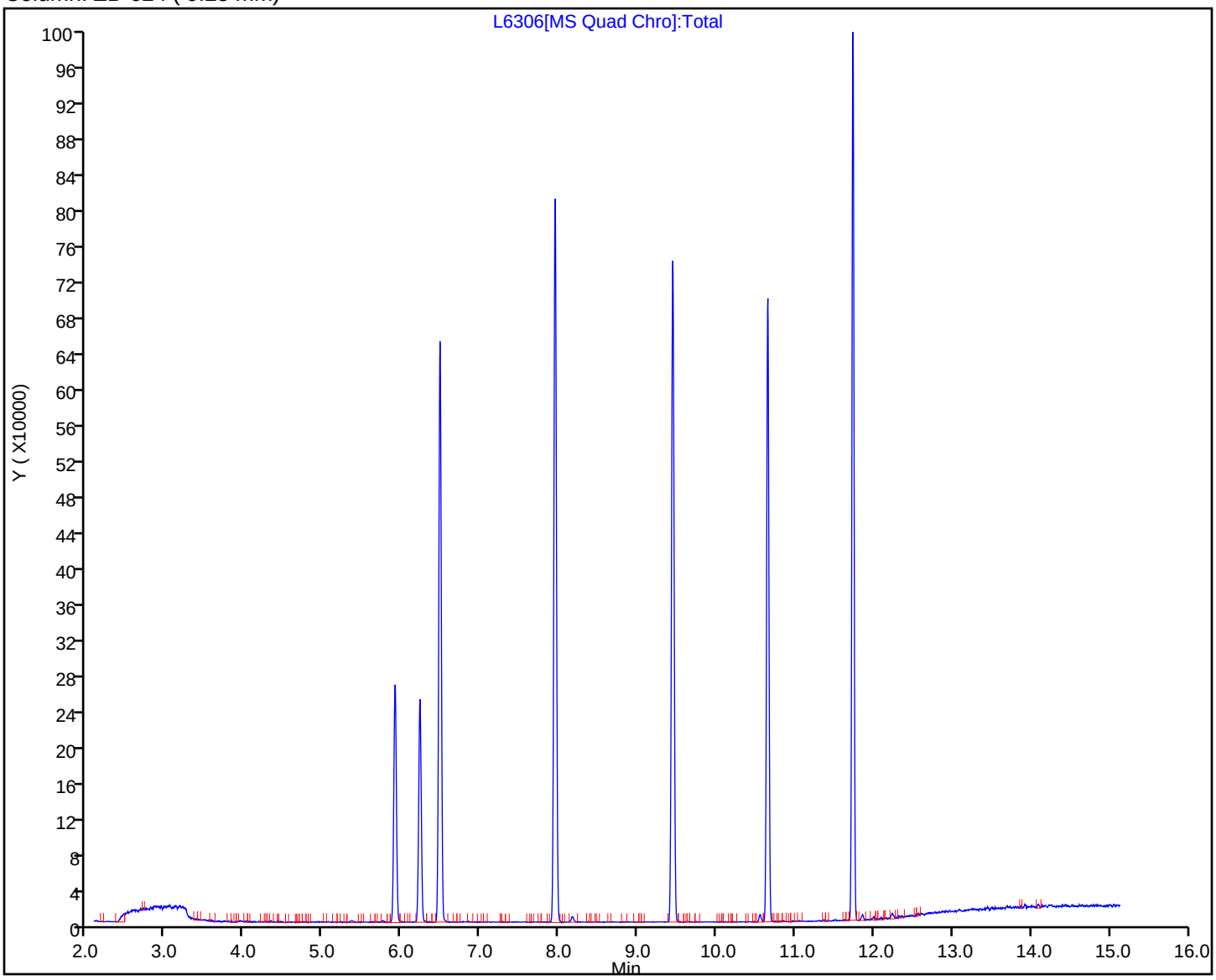
Report Date: 18-Feb-2021 08:55:20 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210217-96706.b\L6306.D

Injection Date:	17-Feb-2021 13:18:48	Instrument ID:	HP5977L		
Lims ID:	480-181249-A-7	Lab Sample ID:	480-181249-7		
Client ID:	TB-20210210				
Operator ID:	OI	ALS Bottle#:	0	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



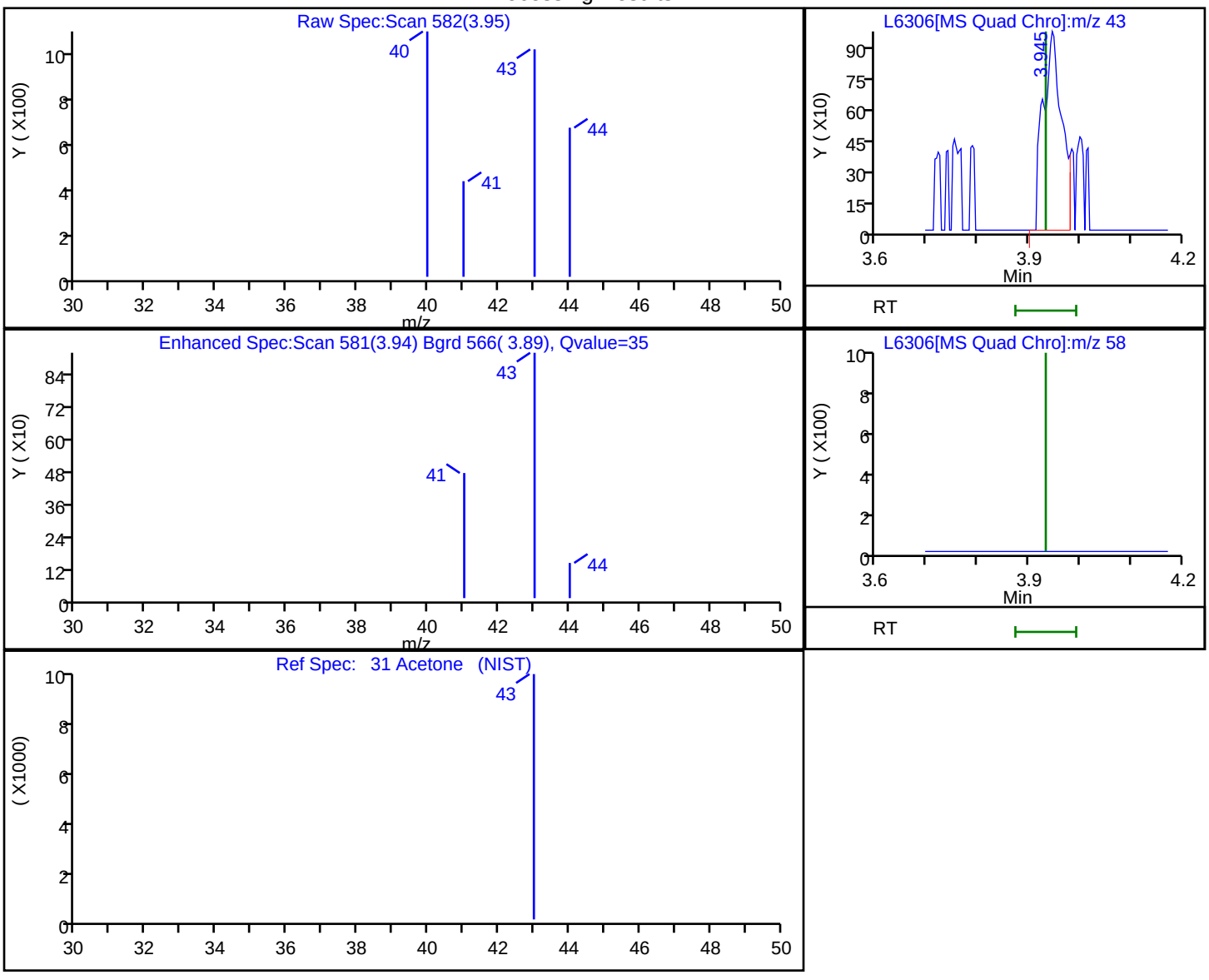
User Disabled Compound Report

Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20210217-96706.b\L6306.D				
Injection Date:	17-Feb-2021 13:18:48	Instrument ID:	HP5977L		
Lims ID:	480-181249-A-7	Lab Sample ID:	480-181249-7		
Client ID:	TB-20210210				
Operator ID:	OI	ALS Bottle#:	0	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

31 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.95	43.00	2516	0.861469
3.93	58.00	0	

Reviewer: lapointec, 18-Feb-2021 08:53:51

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

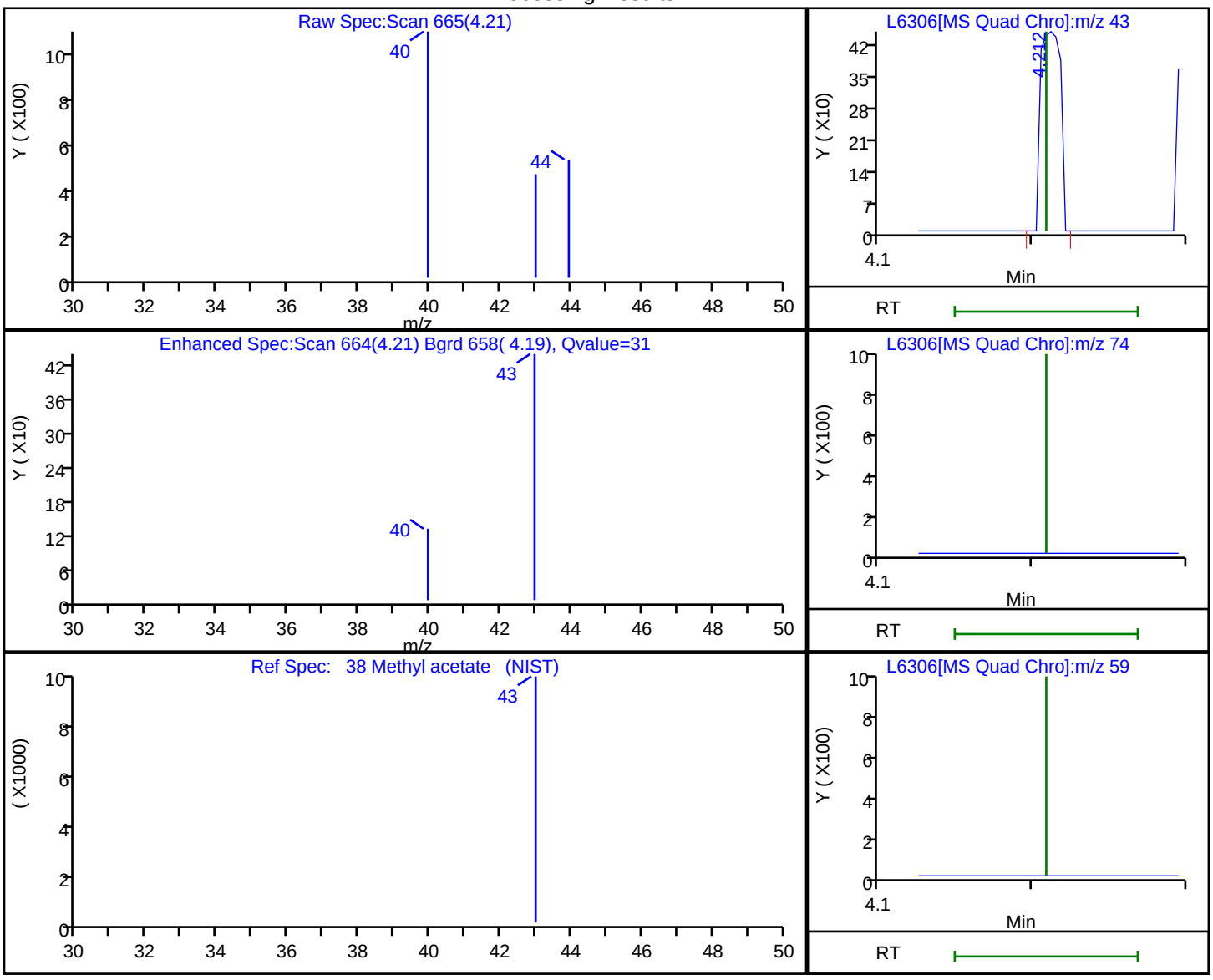
User Disabled Compound Report

Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20210217-96706.b\L6306.D				
Injection Date:	17-Feb-2021 13:18:48	Instrument ID:	HP5977L		
Lims ID:	480-181249-A-7	Lab Sample ID:	480-181249-7		
Client ID:	TB-20210210				
Operator ID:	OI	ALS Bottle#:	0	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

38 Methyl acetate, CAS: 79-20-9

Processing Results



RT	Mass	Response	Amount
4.21	43.00	404	0.062116
4.21	74.00	0	
4.21	59.00	0	

Reviewer: lapointec, 18-Feb-2021 08:53:54

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

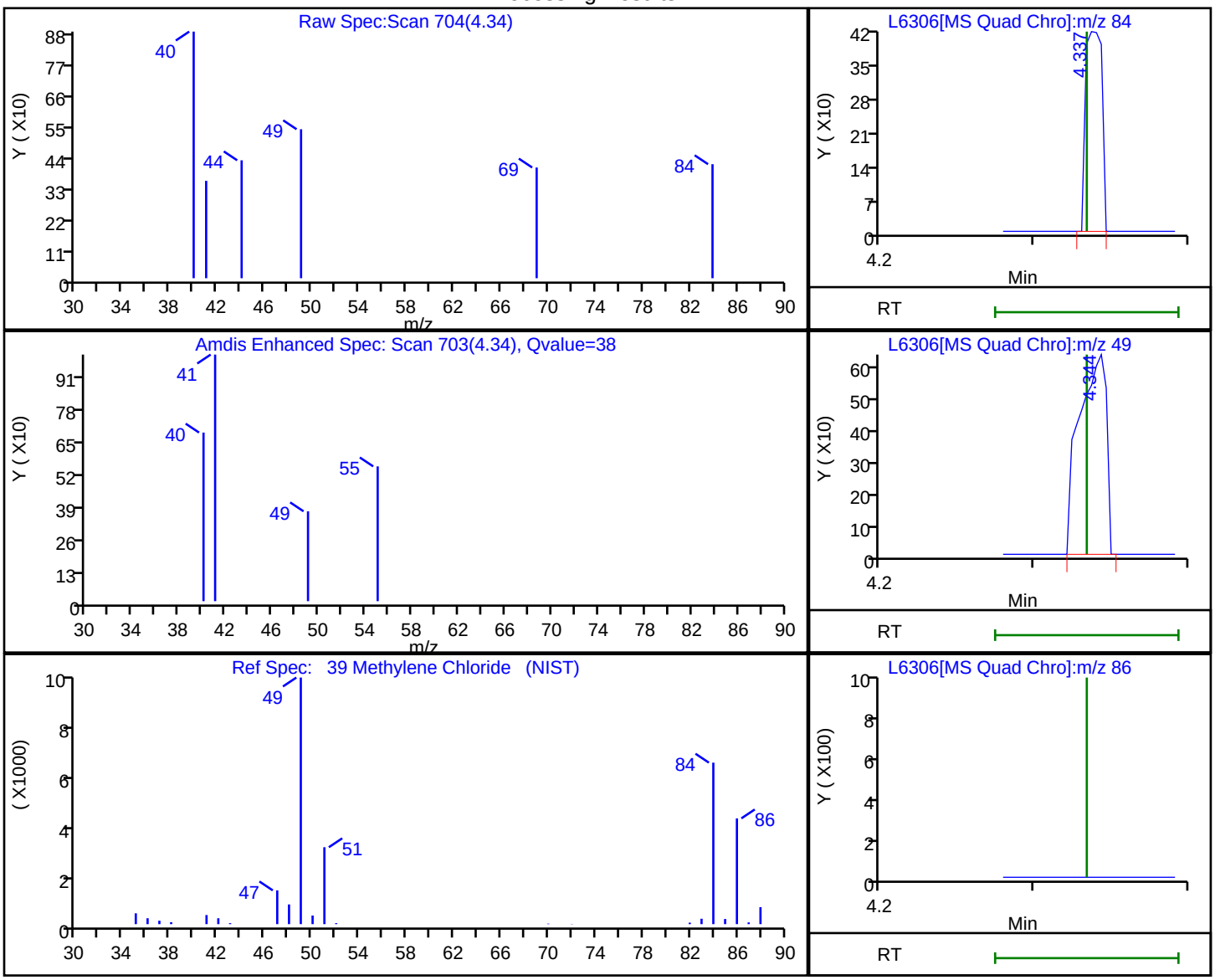
User Disabled Compound Report

Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20210217-96706.b\L6306.D				
Injection Date:	17-Feb-2021 13:18:48	Instrument ID:	HP5977L		
Lims ID:	480-181249-A-7	Lab Sample ID:	480-181249-7		
Client ID:	TB-20210210				
Operator ID:	OI	ALS Bottle#:	0	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

39 Methylene Chloride, CAS: 75-09-2

Processing Results



RT	Mass	Response	Amount
4.34	84.00	307	-0.346096
4.34	49.00	780	
4.33	86.00	0	

Reviewer: lapointec, 18-Feb-2021 08:53:57

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 568392

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 02/04/2021 12:55 Calibration End Date: 02/04/2021 15:34 Calibration ID: 40978

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-568392/4	F0409.D
Level 2	IC 480-568392/5	F0410.D
Level 3	IC 480-568392/6	F0411.D
Level 4	IC 480-568392/7	F0412.D
Level 5	ICIS 480-568392/8	F0413.D
Level 6	IC 480-568392/9	F0414.D
Level 7	IC 480-568392/10	F0415.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	1.2109 1.3906	1.4883 1.4284	1.3149	1.3161	1.2146	Ave		1.3377			0.1000	7.8		20.0			
Chloromethane	1.9961 1.6468	2.0502 1.7066	1.7174	1.7133	1.6618	Ave		1.7846			0.1000	9.3		20.0			
Vinyl chloride	1.7421 1.4629	1.7103 1.5139	1.5244	1.4742	1.4369	Ave		1.5521			0.1000	7.9		20.0			
Butadiene	1.6971 1.5047	1.7261 1.5205	1.6114	1.5640	1.4462	Ave		1.5814				6.5		20.0			
Bromomethane	1.1408 0.8954	1.1762 0.9387	0.9893	0.9271	0.9270	Ave		0.9992			0.1000	11.3		20.0			
Chloroethane	1.0118 0.8112	1.0429 0.8339	0.8688	0.8667	0.8428	Ave		0.8969			0.1000	10.2		20.0			
Dichlorofluoromethane	2.5286 2.0342	2.5444 2.1097	2.1406	2.1583	2.0875	Ave		2.2290				9.6		20.0			
Trichlorofluoromethane	1.8523 1.8660	2.0337 1.8922	1.9459	1.8646	1.7378	Ave		1.8847			0.1000	4.8		20.0			
Ethyl ether	1.3743 1.4115	1.4489 1.4727	1.4753	1.3250	1.4448	Ave		1.4218				3.9		20.0			
Acrolein	0.1666 0.1591	0.1602 0.1699	0.1741	0.1422	0.1623	Ave		0.1620				6.4		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2249 1.1947	0.8383 1.1677	1.2414	1.0414	1.1172	Ave		1.1179			0.1000	12.6		20.0			
1,1-Dichloroethene	1.2632 1.1993	1.2182 1.2216	1.2310	1.0278	1.2072	Ave		1.1955			0.1000	6.4		20.0			
Acetone	0.5909 0.5175	0.5464 0.5390	0.5409	0.5068	0.5432	Ave		0.5407			0.1000	4.9		20.0			
Iodomethane	2.1805 2.2893	2.2700 2.4076	2.4932	2.1161	2.3498	Ave		2.3009				5.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 568392

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 02/04/2021 12:55 Calibration End Date: 02/04/2021 15:34 Calibration ID: 40978

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	4.1464 4.3399	3.9787 4.5377	4.5014	3.7056	4.2145	Ave		4.2035			0.1000	7.0		20.0			
Methyl acetate	1.2129 1.2911	1.2257 1.4186	1.2710	1.1834	1.3178	Ave		1.2744			0.1000	6.2		20.0			
Allyl chloride	2.9064 2.8589	2.7631 2.9891	2.9668	2.5587	2.9544	Ave		2.8568				5.3		20.0			
Methylene Chloride	2.6498 1.5513	2.1860 1.6018	1.8448	1.5781	1.6155	Lin1	2.6697	1.5616			0.1000				0.9990		0.9900
2-Methyl-2-propanol	0.1618 0.1781	0.1602 0.1879	0.1654	0.1560	0.1831	Ave		0.1703				7.3		20.0			
Methyl tert-butyl ether	4.4578 4.6135	4.3594 4.8720	4.6809	4.0798	4.5083	Ave		4.5102			0.1000	5.6		20.0			
Acrylonitrile	0.5622 0.6228	0.5503 0.6822	0.5815	0.5308	0.6199	Ave		0.5928				8.8		20.0			
trans-1,2-Dichloroethene	1.4107 1.5025	1.3987 1.5585	1.5483	1.3501	1.5608	Ave		1.4757			0.1000	5.9		20.0			
Hexane	+++++ 2.3450	2.0449 2.3272	2.4873	1.8384	2.1599	Ave		2.2004				10.7		20.0			
Vinyl acetate	3.6311 3.9686	3.4875 4.2412	3.8311	3.4875	3.9953	Ave		3.8061				7.5		20.0			
1,1-Dichloroethane	2.7345 2.8644	2.8207 2.9431	2.9316	2.5411	2.9244	Ave		2.8228			0.2000	5.1		20.0			
2-Butanone (MEK)	0.8005 0.8368	0.7426 0.9483	0.7757	0.7401	0.8418	Ave		0.8123			0.1000	8.9		20.0			
2,2-Dichloropropane	1.9449 1.8485	1.9538 1.7827	2.1295	1.7910	1.9126	Ave		1.9090				6.3		20.0			
cis-1,2-Dichloroethene	1.7182 1.6467	1.6920 1.7323	1.7067	1.4971	1.7347	Ave		1.6754			0.1000	5.0		20.0			
Chlorobromomethane	0.7043 0.8127	0.8215 0.8611	0.7966	0.7448	0.8258	Ave		0.7953				6.7		20.0			
Tetrahydrofuran	0.5756 0.5634	0.5519 0.6141	0.5224	0.5032	0.5612	Ave		0.5560				6.5		20.0			
Chloroform	2.9596 2.8616	2.9623 2.9864	3.0892	2.6220	2.9786	Ave		2.9228			0.2000	5.1		20.0			
1,1,1-Trichloroethane	2.5976 2.4060	2.4271 2.4390	2.5729	2.1452	2.4662	Ave		2.4363			0.1000	6.1		20.0			
Cyclohexane	2.5469 2.6506	2.0105 2.7009	2.5932	2.1771	2.5074	Ave		2.4552			0.1000	10.6		20.0			
1,1-Dichloropropene	2.0427 2.1818	1.9445 2.2184	2.2157	1.8887	2.1731	Ave		2.0950				6.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 568392

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 02/04/2021 12:55 Calibration End Date: 02/04/2021 15:34 Calibration ID: 40978

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon tetrachloride	2.1218 2.1132	1.9098 2.1410	2.2473	1.8036	2.1021	Ave		2.0627			0.1000	7.4		20.0			
Isobutyl alcohol	0.0710 0.0941	0.0666 +++++	0.0786	0.0706	0.0900	Ave		0.0785				14.4		20.0			
Benzene	6.1551 6.3722	6.1992 6.8213	6.4199	5.6147	6.4554	Ave		6.2911			0.5000	5.9		20.0			
1,2-Dichloroethane	2.5962 2.4789	2.6473 2.5843	2.6736	2.3711	2.5598	Ave		2.5587			0.1000	4.1		20.0			
n-Heptane	2.4833 2.6910	1.9161 2.7763	2.6006	2.1225	2.5473	Ave		2.4481				12.8		20.0			
Trichloroethene	1.6194 1.5662	1.5555 1.6235	1.6403	1.4177	1.6015	Ave		1.5749			0.2000	4.8		20.0			
Methylcyclohexane	2.4411 2.6173	1.8854 2.6380	2.4583	2.0991	2.4222	Ave		2.3659			0.1000	11.7		20.0			
1,2-Dichloropropane	1.3610 1.5556	1.4372 1.6355	1.6226	1.4127	1.5700	Ave		1.5135			0.1000	7.2		20.0			
1,4-Dioxane	+++++ 0.0080	0.0066 0.0083	0.0062	0.0074	0.0080	Ave		0.0074				11.4		20.0			
Dibromomethane	0.9185 0.9466	0.9138 1.0098	0.9969	0.8753	0.9539	Ave		0.9450			0.1000	5.0		20.0			
Bromodichloromethane	2.2022 2.2068	2.1196 2.3579	2.1722	1.9571	2.2298	Ave		2.1779			0.2000	5.6		20.0			
2-Chloroethyl vinyl ether	0.6493 0.8400	0.6552 0.9358	0.6978	0.6484	0.8168	Ave		0.7490				15.3		20.0			
cis-1,3-Dichloropropene	2.3200 2.7127	2.2221 2.8807	2.5136	2.2685	2.6975	Ave		2.5164			0.2000	10.1		20.0			
4-Methyl-2-pentanone (MIBK)	0.7222 0.8767	0.7197 0.9740	0.8223	0.7443	0.8647	Ave		0.8177			0.1000	11.6		20.0			
Toluene	1.8928 1.9572	1.9423 2.0391	2.1173	1.7615	1.9962	Ave		1.9581			0.4000	5.8		20.0			
trans-1,3-Dichloropropene	1.1316 1.2424	1.0781 1.3258	1.2241	1.0697	1.2355	Ave		1.1868			0.1000	8.0		20.0			
Ethyl methacrylate	0.8483 0.9848	0.7411 1.0736	0.9190	0.7899	0.9514	Ave		0.9012				12.8		20.0			
1,1,2-Trichloroethane	0.4408 0.5318	0.5077 0.5629	0.5396	0.4631	0.5312	Ave		0.5110			0.1000	8.6		20.0			
Tetrachloroethene	0.7663 0.7824	0.7440 0.7981	0.7964	0.6935	0.7964	Ave		0.7682			0.2000	5.0		20.0			
1,3-Dichloropropane	1.0102 1.1574	1.0621 1.2318	1.1744	1.0213	1.1777	Ave		1.1193				7.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 568392

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 02/04/2021 12:55 Calibration End Date: 02/04/2021 15:34 Calibration ID: 40978

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Hexanone	0.4894 0.6055	0.4705 0.6739	0.5531	0.5074	0.5887	Ave		0.5555			0.1000	13.1		20.0			
Dibromochloromethane	0.6469 0.7600	0.6538 0.8154	0.7265	0.6661	0.7685	Ave		0.7196			0.1000	9.1		20.0			
1,2-Dibromoethane	0.5594 0.6388	0.5918 0.6949	0.6458	0.5794	0.6521	Ave		0.6232				7.7		20.0			
Chlorobenzene	2.0151 2.0757	1.9878 2.1910	2.1410	1.8505	2.1479	Ave		2.0584			0.5000	5.7		20.0			
Ethylbenzene	3.4045 3.6293	3.4934 3.8460	3.7255	3.1601	3.6945	Ave		3.5648			0.1000	6.5		20.0			
1,1,1,2-Tetrachloroethane	0.7716 0.7951	0.7383 0.8268	0.8216	0.7229	0.8388	Ave		0.7879				5.7		20.0			
m,p-Xylene	1.3526 1.3665	1.3644 1.4547	1.4369	1.2094	1.4107	Ave		1.3708			0.1000	5.9		20.0			
o-Xylene	1.2507 1.3536	1.2689 1.4106	1.4398	1.2066	1.4104	Ave		1.3344			0.3000	6.9		20.0			
Styrene	2.1185 2.3482	2.0632 2.5175	2.2774	2.0208	2.4109	Ave		2.2509			0.3000	8.4		20.0			
Bromoform	0.4453 0.5031	0.4091 0.5487	0.4592	0.4016	0.4877	Ave		0.4650			0.1000	11.3		20.0			
Isopropylbenzene	3.7338 4.0370	3.8260 4.1255	4.1478	3.4987	4.0714	Ave		3.9200			0.1000	6.2		20.0			
1,1,2,2-Tetrachloroethane	0.8239 0.9042	0.8275 0.9712	0.8751	0.7979	0.9292	Ave		0.8756			0.3000	7.2		20.0			
Bromobenzene	0.9475 0.9989	0.9898 1.0388	1.0196	0.9022	1.0075	Ave		0.9863				4.7		20.0			
trans-1,4-Dichloro-2-butene	0.2937 0.3342	0.2974 0.3661	0.3347	0.2865	0.3380	Ave		0.3215				9.1		20.0			
1,2,3-Trichloropropane	0.2569 0.2817	0.2778 0.2975	0.3100	0.2612	0.2858	Ave		0.2816				6.7		20.0			
N-Propylbenzene	4.4038 4.7246	4.4722 4.9021	4.7929	4.1079	4.7605	Ave		4.5949				6.1		20.0			
2-Chlorotoluene	0.9038 0.9086	0.9150 0.9210	0.9215	0.8285	0.9480	Ave		0.9066				4.1		20.0			
1,3,5-Trimethylbenzene	3.1441 3.4506	3.3648 3.4815	3.5031	3.0695	3.5059	Ave		3.3599				5.4		20.0			
4-Chlorotoluene	0.8626 0.9193	0.9610 0.9606	0.9915	0.8307	0.9364	Ave		0.9231				6.2		20.0			
tert-Butylbenzene	0.6549 0.7292	0.6922 0.7295	0.7533	0.6418	0.7539	Ave		0.7078				6.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 568392

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 02/04/2021 12:55 Calibration End Date: 02/04/2021 15:34 Calibration ID: 40978

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	3.0919 3.4780	3.2356 3.5165	3.5708	3.0497	3.5778	Ave		3.3600				6.8		20.0			
sec-Butylbenzene	3.8029 4.2855	3.8458 4.2198	4.3405	3.6605	4.3129	Ave		4.0668				7.0		20.0			
4-Isopropyltoluene	3.2957 3.7663	3.3726 3.6439	3.7176	3.2066	3.7318	Ave		3.5335				6.6		20.0			
1,3-Dichlorobenzene	1.8079 1.8914	1.9139 1.9522	1.9742	1.7180	1.9106	Ave		1.8812			0.6000	4.7		20.0			
1,4-Dichlorobenzene	1.9706 1.9035	1.9206 1.9774	1.9726	1.6874	1.9049	Ave		1.9053			0.5000	5.3		20.0			
n-Butylbenzene	2.8942 3.2716	2.9919 3.1624	3.2372	2.7928	3.2792	Ave		3.0899				6.4		20.0			
1,2-Dichlorobenzene	1.6910 1.8001	1.8351 1.8543	1.8387	1.6469	1.8656	Ave		1.7902			0.4000	4.8		20.0			
1,2-Dibromo-3-Chloropropane	0.1822 0.1857	0.1798 0.2012	0.1771	0.1607	0.1861	Ave		0.1818			0.0500	6.7		20.0			
1,2,4-Trichlorobenzene	1.2356 1.3112	1.3474 1.3055	1.3469	1.1572	1.3078	Ave		1.2874			0.2000	5.3		20.0			
Hexachlorobutadiene	0.6754 0.7313	0.6645 0.7012	0.7346	0.6193	0.7427	Ave		0.6956				6.5		20.0			
Naphthalene	2.4583 3.0192	2.5880 3.2821	2.7509	2.4928	2.8433	Ave		2.7764				10.8		20.0			
1,2,3-Trichlorobenzene	1.2032 1.2681	1.2125 1.2863	1.2391	1.0954	1.2065	Ave		1.2159				5.1		20.0			
Dibromofluoromethane (Surr)	1.2762 1.2089	1.2508 1.2351	1.2474	1.2700	1.2605	Ave		1.2498				1.8		20.0			
1,2-Dichloroethane-d4 (Surr)	0.8086 0.7676	0.7982 0.7844	0.7740	0.7857	0.7843	Ave		0.7861				1.8		20.0			
Toluene-d8 (Surr)	2.3445 2.3013	2.3541 2.3527	2.3839	2.3611	2.3777	Ave		2.3536				1.1		20.0			
4-Bromofluorobenzene (Surr)	0.6874 0.7111	0.6888 0.7065	0.7171	0.7070	0.7053	Ave		0.7033				1.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 568392

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 02/04/2021 12:55 Calibration End Date: 02/04/2021 15:34 Calibration ID: 40978

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-568392/4	F0409.D
Level 2	IC 480-568392/5	F0410.D
Level 3	IC 480-568392/6	F0411.D
Level 4	IC 480-568392/7	F0412.D
Level 5	ICIS 480-568392/8	F0413.D
Level 6	IC 480-568392/9	F0414.D
Level 7	IC 480-568392/10	F0415.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	13111 673608	32637 1410528	58868	119425	289259	2.50 100	5.00 200	10.0	20.0	50.0
Chloromethane	FB	Ave	21612 797704	44957 1685321	76888	155468	395775	2.50 100	5.00 200	10.0	20.0	50.0
Vinyl chloride	FB	Ave	18862 708644	37505 1494995	68244	133771	342209	2.50 100	5.00 200	10.0	20.0	50.0
Butadiene	FB	Ave	18375 728849	37851 1501509	72142	141928	344428	2.50 100	5.00 200	10.0	20.0	50.0
Bromomethane	FB	Ave	12352 433732	25793 926982	44292	84127	220775	2.50 100	5.00 200	10.0	20.0	50.0
Chloroethane	FB	Ave	10955 392936	22870 823453	38895	78648	200715	2.50 100	5.00 200	10.0	20.0	50.0
Dichlorofluoromethane	FB	Ave	27377 985376	55794 2083375	95832	195850	497144	2.50 100	5.00 200	10.0	20.0	50.0
Trichlorofluoromethane	FB	Ave	20055 903888	44596 1868546	87117	169205	413880	2.50 100	5.00 200	10.0	20.0	50.0
Ethyl ether	FB	Ave	14880 683738	31772 1454315	66048	120237	344087	2.50 100	5.00 200	10.0	20.0	50.0
Acrolein	FB	Ave	9017 385229	17561 839097	38977	64497	193261	12.5 500	25.0 1000	50.0	100	250
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	13262 578693	18382 1153091	55577	94500	266074	2.50 100	5.00 200	10.0	20.0	50.0
1,1-Dichloroethene	FB	Ave	13677 580954	26714 1206324	55111	93264	287510	2.50 100	5.00 200	10.0	20.0	50.0
Acetone	FB	Ave	31988 1253480	59906 2661125	121072	229934	646787	12.5 500	25.0 1000	50.0	100	250
Iodomethane	FB	Ave	23609 1108929	49778 2377542	111620	192027	559627	2.50 100	5.00 200	10.0	20.0	50.0
Carbon disulfide	FB	Ave	44894 2102249	87246 4481098	201524	336264	1003719	2.50 100	5.00 200	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 568392

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 02/04/2021 12:55 Calibration End Date: 02/04/2021 15:34 Calibration ID: 40978

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Methyl acetate	FB	Ave	26265 1250849	53754 2801869	113802	214769	627666	5.00 200	10.0 400	20.0	40.0	100
Allyl chloride	FB	Ave	31468 1384825	60591 2951778	132821	232190	703610	2.50 100	5.00 200	10.0	20.0	50.0
Methylene Chloride	FB	Lin1	28690 751463	47935 1581765	82588	143202	384737	2.50 100	5.00 200	10.0	20.0	50.0
2-Methyl-2-propanol	FB	Ave	17522 862553	35123 1855305	74044	141528	435999	25.0 1000	50.0 2000	100	200	500
Methyl tert-butyl ether	FB	Ave	48265 2234779	95595 4811202	209558	370223	1073681	2.50 100	5.00 200	10.0	20.0	50.0
Acrylonitrile	FB	Ave	60868 3016791	120678 6736494	260320	481670	1476322	25.0 1000	50.0 2000	100	200	500
trans-1,2-Dichloroethene	FB	Ave	15274 727794	30671 1539035	69318	122512	371718	2.50 100	5.00 200	10.0	20.0	50.0
Hexane	FB	Ave	+++++ 1135891	44841 2298156	111353	166826	514401	+++++ 100	5.00 200	10.0	20.0	50.0
Vinyl acetate	FB	Ave	78629 3844737	152951 8376569	343032	632950	1903033	5.00 200	10.0 400	20.0	40.0	100
1,1-Dichloroethane	FB	Ave	29607 1387492	61853 2906380	131244	230593	696468	2.50 100	5.00 200	10.0	20.0	50.0
2-Butanone (MEK)	FB	Ave	43336 2026736	81423 4682318	173642	335796	1002372	12.5 500	25.0 1000	50.0	100	250
2,2-Dichloropropane	FB	Ave	21058 895411	42844 1760463	95338	162523	455505	2.50 100	5.00 200	10.0	20.0	50.0
cis-1,2-Dichloroethene	FB	Ave	18603 797656	37103 1710707	76409	135856	413134	2.50 100	5.00 200	10.0	20.0	50.0
Chlorobromomethane	FB	Ave	7626 393677	18015 850398	35661	67589	196679	2.50 100	5.00 200	10.0	20.0	50.0
Tetrahydrofuran	FB	Ave	12464 545773	24203 1212956	46778	91323	267295	5.00 200	10.0 400	20.0	40.0	100
Chloroform	FB	Ave	32044 1386156	64958 2949163	138300	237932	709380	2.50 100	5.00 200	10.0	20.0	50.0
1,1,1-Trichloroethane	FB	Ave	28125 1165442	53222 2408552	115187	194662	587344	2.50 100	5.00 200	10.0	20.0	50.0
Cyclohexane	FB	Ave	27576 1283932	44088 2667147	116094	197558	597159	2.50 100	5.00 200	10.0	20.0	50.0
1,1-Dichloropropene	FB	Ave	22117 1056864	42639 2190719	99193	171386	517548	2.50 100	5.00 200	10.0	20.0	50.0
Carbon tetrachloride	FB	Ave	22973 1023635	41878 2114234	100610	163667	500635	2.50 100	5.00 200	10.0	20.0	50.0
Isobutyl alcohol	FB	Ave	19216 1138992	36492 +++++	87978	160136	535643	62.5 2500	125 +++++	250	500	1250

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 568392

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 02/04/2021 12:55 Calibration End Date: 02/04/2021 15:34 Calibration ID: 40978

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzene	FB	Ave	66642 3086682	135938 6736156	287415	509505	1537401	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dichloroethane	FB	Ave	28109 1200752	58052 2552003	119693	215162	609623	2.50 100	5.00 200	10.0	20.0	50.0
n-Heptane	FB	Ave	26887 1303487	42018 2741625	116425	192601	606668	2.50 100	5.00 200	10.0	20.0	50.0
Trichloroethene	FB	Ave	17533 758654	34109 1603283	73437	128649	381413	2.50 100	5.00 200	10.0	20.0	50.0
Methylcyclohexane	FB	Ave	26430 1267807	41344 2605051	110054	190483	576865	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dichloropropane	FB	Ave	14736 753537	31516 1615042	72642	128196	373903	2.50 100	5.00 200	10.0	20.0	50.0
1,4-Dioxane	CBNZd5	Ave	+++++ 158430	5753 335992	10935	27145	76894	+++++ 2000	100 4000	200	400	1000
Dibromomethane	FB	Ave	9945 458523	20039 997194	44631	79433	227188	2.50 100	5.00 200	10.0	20.0	50.0
Bromodichloromethane	FB	Ave	23844 1068953	46480 2328435	97247	177597	531040	2.50 100	5.00 200	10.0	20.0	50.0
2-Chloroethyl vinyl ether	FB	Ave	7030 406877	14367 924153	31240	58838	194535	2.50 100	5.00 200	10.0	20.0	50.0
cis-1,3-Dichloropropene	FB	Ave	25119 1314000	48727 2844708	112534	205855	642418	2.50 100	5.00 200	10.0	20.0	50.0
4-Methyl-2-pentanone (MIBK)	CBNZd5	Ave	80458 4338663	156584 9895836	363764	681306	2076211	12.5 500	25.0 1000	50.0	100	250
Toluene	CBNZd5	Ave	42172 1937262	84522 4143261	187321	322472	958631	2.50 100	5.00 200	10.0	20.0	50.0
trans-1,3-Dichloropropene	CBNZd5	Ave	25213 1229753	46915 2694029	108303	195829	593331	2.50 100	5.00 200	10.0	20.0	50.0
Ethyl methacrylate	CBNZd5	Ave	18900 974730	32250 2181589	81307	144605	456871	2.50 100	5.00 200	10.0	20.0	50.0
1,1,2-Trichloroethane	CBNZd5	Ave	9820 526430	22092 1143821	47740	84767	255098	2.50 100	5.00 200	10.0	20.0	50.0
Tetrachloroethene	CBNZd5	Ave	17073 774451	32378 1621759	70461	126957	382452	2.50 100	5.00 200	10.0	20.0	50.0
1,3-Dichloropropane	CBNZd5	Ave	22508	46217	103904	186957	565585	2.50	5.00	10.0	20.0	50.0

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 568392

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 02/04/2021 12:55 Calibration End Date: 02/04/2021 15:34 Calibration ID: 40978

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
			1145622	2502916				100	200			
2-Hexanone	CBNZd5	Ave	54516 2996615	102367 6846283	244676	464406	1413576	12.5 500	25.0 1000	50.0	100	250
Dibromochloromethane	CBNZd5	Ave	14413 752249	28450 1656831	64272	121938	369046	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dibromoethane	CBNZd5	Ave	12463 632263	25753 1411996	57135	106061	313181	2.50 100	5.00 200	10.0	20.0	50.0
Chlorobenzene	CBNZd5	Ave	44896 2054517	86502 4451962	189416	338765	1031505	2.50 100	5.00 200	10.0	20.0	50.0
Ethylbenzene	CBNZd5	Ave	75853 3592343	152018 7814797	329605	578487	1774212	2.50 100	5.00 200	10.0	20.0	50.0
1,1,1,2-Tetrachloroethane	CBNZd5	Ave	17191 786968	32127 1680085	72686	132330	402837	2.50 100	5.00 200	10.0	20.0	50.0
m,p-Xylene	CBNZd5	Ave	30137 1352542	59374 2955967	127130	221393	677455	2.50 100	5.00 200	10.0	20.0	50.0
o-Xylene	CBNZd5	Ave	27866 1339770	55219 2866326	127384	220886	677295	2.50 100	5.00 200	10.0	20.0	50.0
Styrene	CBNZd5	Ave	47200 2324231	89783 5115375	201489	369926	1157791	2.50 100	5.00 200	10.0	20.0	50.0
Bromoform	CBNZd5	Ave	9921 497992	17801 1115009	40630	73526	234211	2.50 100	5.00 200	10.0	20.0	50.0
Isopropylbenzene	DCBd4	Ave	73293 3565914	146224 7591759	329844	567633	1772947	2.50 100	5.00 200	10.0	20.0	50.0
1,1,2,2-Tetrachloroethane	DCBd4	Ave	16172 798724	31624 1787142	69588	129457	404651	2.50 100	5.00 200	10.0	20.0	50.0
Bromobenzene	DCBd4	Ave	18598 882321	37827 1911666	81081	146379	438743	2.50 100	5.00 200	10.0	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd4	Ave	5766 295173	11368 673694	26615	46490	147177	2.50 100	5.00 200	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd4	Ave	5043 248792	10617 547423	24652	42378	124466	2.50 100	5.00 200	10.0	20.0	50.0
N-Propylbenzene	DCBd4	Ave	86445 4173278	170919 9020933	381144	666481	2073043	2.50 100	5.00 200	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 568392

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 02/04/2021 12:55 Calibration End Date: 02/04/2021 15:34 Calibration ID: 40978

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
2-Chlorotoluene	DCBd4	Ave	17741 802560	34969 1694857	73278	134420	412828	2.50 100	5.00 200	10.0	20.0	50.0
1,3,5-Trimethylbenzene	DCBd4	Ave	61718 3047939	128596 6406660	278576	498009	1526699	2.50 100	5.00 200	10.0	20.0	50.0
4-Chlorotoluene	DCBd4	Ave	16933 811989	36727 1767631	78843	134775	407785	2.50 100	5.00 200	10.0	20.0	50.0
tert-Butylbenzene	DCBd4	Ave	12856 644067	26456 1342348	59903	104126	328275	2.50 100	5.00 200	10.0	20.0	50.0
1,2,4-Trimethylbenzene	DCBd4	Ave	60693 3072125	123657 6471050	283957	494795	1558017	2.50 100	5.00 200	10.0	20.0	50.0
sec-Butylbenzene	DCBd4	Ave	74649 3785396	146979 7765348	345161	593895	1878107	2.50 100	5.00 200	10.0	20.0	50.0
4-Isopropyltoluene	DCBd4	Ave	64692 3326768	128894 6705555	295632	520250	1625078	2.50 100	5.00 200	10.0	20.0	50.0
1,3-Dichlorobenzene	DCBd4	Ave	35489 1670701	73146 3592365	156995	278730	832011	2.50 100	5.00 200	10.0	20.0	50.0
1,4-Dichlorobenzene	DCBd4	Ave	38682 1681386	73402 3638795	156863	273762	829504	2.50 100	5.00 200	10.0	20.0	50.0
n-Butylbenzene	DCBd4	Ave	56811 2889840	114346 5819463	257429	453112	1427965	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dichlorobenzene	DCBd4	Ave	33194 1590030	70133 3412308	146213	267191	812416	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	3577 164057	6871 370199	14081	26079	81052	2.50 100	5.00 200	10.0	20.0	50.0
1,2,4-Trichlorobenzene	DCBd4	Ave	24254 1158156	51495 2402448	107105	187740	569496	2.50 100	5.00 200	10.0	20.0	50.0
Hexachlorobutadiene	DCBd4	Ave	13257 645982	25396 1290389	58419	100469	323429	2.50 100	5.00 200	10.0	20.0	50.0
Naphthalene	DCBd4	Ave	48256 2666866	98907 6039717	218756	404432	1238152	2.50 100	5.00 200	10.0	20.0	50.0
1,2,3-Trichlorobenzene	DCBd4	Ave	23619 1120157	46339 2367060	98539	177727	525366	2.50 100	5.00 200	10.0	20.0	50.0
Dibromofluoromethane (Surr)	FB	Ave	276348 292801	274272 304916	279215	288116	300200	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	175103 185913	175032 193658	173266	178246	186775	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBNZd5	Ave	1044704 1138928	1024419 1195117	1054529	1080559	1141839	50.0 50.0	50.0 50.0	50.0	50.0	50.0
4-Bromofluorobenzene (Surr)	CBNZd5	Ave	306309 351944	299744 358908	317221	323554	338698	50.0 50.0	50.0 50.0	50.0	50.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 568392

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 02/04/2021 12:55 Calibration End Date: 02/04/2021 15:34 Calibration ID: 40978

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 568392

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 02/04/2021 12:55 Calibration End Date: 02/04/2021 15:34 Calibration ID: 40978

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-568392/4	F0409.D
Level 2	IC 480-568392/5	F0410.D
Level 3	IC 480-568392/6	F0411.D
Level 4	IC 480-568392/7	F0412.D
Level 5	ICIS 480-568392/8	F0413.D
Level 6	IC 480-568392/9	F0414.D
Level 7	IC 480-568392/10	F0415.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane	-9.5						30					
Chloromethane	11.9						30					
Vinyl chloride	12.2						30					
Butadiene	7.3						30					
Bromomethane	14.2						30					
Chloroethane	12.8						30					
Dichlorofluoromethane	13.4						30					
Trichlorofluoromethane	-1.7						30					
Ethyl ether	-3.3						30					
Acrolein	2.8						30					
1,1,2-Trichloro-1,2,2-trifluoroethane	9.6						30					
1,1-Dichloroethene	5.7						30					
Acetone	9.3						30					
Iodomethane	-5.2						30					
Carbon disulfide	-1.4						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 568392

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 02/04/2021 12:55 Calibration End Date: 02/04/2021 15:34 Calibration ID: 40978

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Methyl acetate	-4.8						30					
Allyl chloride	1.7						30					
Methylene Chloride	1.3						30					
2-Methyl-2-propanol	-5.0						30					
Methyl tert-butyl ether	-1.2						30					
Acrylonitrile	-5.2						30					
trans-1,2-Dichloroethene	-4.4						30					
Hexane	+++++	-7.1						30				
Vinyl acetate	-4.6						30					
1,1-Dichloroethane	-3.1						30					
2-Butanone (MEK)	-1.4						30					
2,2-Dichloropropane	1.9						30					
cis-1,2-Dichloroethene	2.6						30					
Chlorobromomethane	-11.4						30					
Tetrahydrofuran	3.5						30					
Chloroform	1.3						30					
1,1,1-Trichloroethane	6.6						30					
Cyclohexane	3.7						30					
1,1-Dichloropropene	-2.5						30					
Carbon tetrachloride	2.9						30					
Isobutyl alcohol	-9.5 +++++						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 568392

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 02/04/2021 12:55 Calibration End Date: 02/04/2021 15:34 Calibration ID: 40978

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Benzene	-2.2						30					
1,2-Dichloroethane	1.5						30					
n-Heptane	1.4						30					
Trichloroethene	2.8						30					
Methylcyclohexane	3.2						30					
1,2-Dichloropropane	-10.1						30					
1,4-Dioxane	+++++	-10.8						30				
Dibromomethane	-2.8						30					
Bromodichloromethane	1.1						30					
2-Chloroethyl vinyl ether	-13.3						30					
cis-1,3-Dichloropropene	-7.8						30					
4-Methyl-2-pentanone (MIBK)	-11.7						30					
Toluene	-3.3						30					
trans-1,3-Dichloropropene	-4.6						30					
Ethyl methacrylate	-5.9						30					
1,1,2-Trichloroethane	-13.7						30					
Tetrachloroethene	-0.2						30					
1,3-Dichloropropane	-9.7						30					
2-Hexanone	-11.9						30					
Dibromochloromethane	-10.1						30					
1,2-Dibromoethane	-10.2						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 568392

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 02/04/2021 12:55 Calibration End Date: 02/04/2021 15:34 Calibration ID: 40978

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Chlorobenzene	-2.1						30					
Ethylbenzene	-4.5						30					
1,1,1,2-Tetrachloroethane	-2.1						30					
m,p-Xylene	-1.3						30					
o-Xylene	-6.3						30					
Styrene	-5.9						30					
Bromoform	-4.2						30					
Isopropylbenzene	-4.8						30					
1,1,2,2-Tetrachloroethane	-5.9						30					
Bromobenzene	-3.9						30					
trans-1,4-Dichloro-2-butene	-8.6						30					
1,2,3-Trichloropropane	-8.8						30					
N-Propylbenzene	-4.2						30					
2-Chlorotoluene	-0.3						30					
1,3,5-Trimethylbenzene	-6.4						30					
4-Chlorotoluene	-6.6						30					
tert-Butylbenzene	-7.5						30					
1,2,4-Trimethylbenzene	-8.0						30					
sec-Butylbenzene	-6.5						30					
4-Isopropyltoluene	-6.7						30					
1,3-Dichlorobenzene	-3.9						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 568392

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 02/04/2021 12:55 Calibration End Date: 02/04/2021 15:34 Calibration ID: 40978

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
1,4-Dichlorobenzene	3.4						30					
n-Butylbenzene	-6.3						30					
1,2-Dichlorobenzene	-5.5						30					
1,2-Dibromo-3-Chloropropane	0.2						30					
1,2,4-Trichlorobenzene	-4.0						30					
Hexachlorobutadiene	-2.9						30					
Naphthalene	-11.5						30					
1,2,3-Trichlorobenzene	-1.0						30					
Dibromofluoromethane (Surr)	2.1						30					
1,2-Dichloroethane-d4 (Surr)	2.9						30					
Toluene-d8 (Surr)	-0.4						30					
4-Bromofluorobenzene (Surr)	-2.3						30					

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0409.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 04-Feb-2021 12:55:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 480-0096467-004
Operator ID: WD Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 05-Feb-2021 09:49:05 Calib Date: 04-Feb-2021 19:06:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0423.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1680

First Level Reviewer: dahnw Date: 05-Feb-2021 09:06:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.545	5.551	-0.006	98	216543	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.386	8.386	0.000	89	445604	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.704	10.704	0.000	96	392590	50.0	50.0	
$ 154 Dibromofluoromethane (Surr)	113	4.997	4.991	0.006	92	276348	50.0	51.1	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.289	5.283	0.006	97	175103	50.0	51.4	
$ 5 Toluene-d8 (Surr)	98	6.938	6.938	0.000	95	1044704	50.0	49.8	
$ 6 4-Bromofluorobenzene (Surr)	174	9.596	9.603	-0.007	87	306309	50.0	48.9	
10 Dichlorodifluoromethane	85	1.968	1.968	0.000	96	13111	2.50	2.26	M
12 Chloromethane	50	2.162	2.156	0.006	98	21612	2.50	2.80	M
13 Vinyl chloride	62	2.253	2.260	-0.007	72	18862	2.50	2.81	
151 Butadiene	54	2.272	2.272	0.000	96	18375	2.50	2.68	
14 Bromomethane	94	2.558	2.564	-0.006	89	12352	2.50	2.85	
15 Chloroethane	64	2.637	2.637	0.000	98	10955	2.50	2.82	
16 Dichlorofluoromethane	67	2.783	2.783	0.000	97	27377	2.50	2.84	
17 Trichlorofluoromethane	101	2.837	2.825	0.012	98	20055	2.50	2.46	
18 Ethyl ether	59	3.032	3.026	0.006	92	14880	2.50	2.42	
20 Acrolein	56	3.178	3.172	0.006	98	9017	12.5	12.8	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.227	3.227	0.000	90	13262	2.50	2.74	
22 1,1-Dichloroethene	96	3.245	3.245	0.000	96	13677	2.50	2.64	
23 Acetone	43	3.282	3.282	0.000	98	31988	12.5	13.7	
25 Iodomethane	142	3.403	3.397	0.006	100	23609	2.50	2.37	
26 Carbon disulfide	76	3.464	3.464	0.000	99	44894	2.50	2.47	
27 Methyl acetate	43	3.519	3.513	0.006	80	26265	5.00	4.76	
28 3-Chloro-1-propene	41	3.525	3.525	0.000	86	31468	2.50	2.54	
30 Methylene Chloride	84	3.628	3.628	0.000	94	28690	2.50	2.53	
31 2-Methyl-2-propanol	59	3.659	3.659	0.000	97	17522	25.0	23.8	
32 Methyl tert-butyl ether	73	3.793	3.793	0.000	98	48265	2.50	2.47	
33 Acrylonitrile	53	3.823	3.817	0.006	98	60868	25.0	23.7	
34 trans-1,2-Dichloroethene	96	3.829	3.829	0.000	94	15274	2.50	2.39	
35 Hexane	57	3.993	3.993	0.000	93	29730	2.50	3.12	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	4.152	4.152	0.000	98	78629	5.00	4.77	
39 1,1-Dichloroethane	63	4.158	4.164	-0.006	97	29607	2.50	2.42	
43 2-Butanone (MEK)	43	4.608	4.602	0.006	93	43336	12.5	12.3	
44 2,2-Dichloropropane	77	4.620	4.614	0.006	65	21058	2.50	2.55	
45 cis-1,2-Dichloroethene	96	4.620	4.620	0.000	85	18603	2.50	2.56	
48 Chlorobromomethane	128	4.827	4.821	0.006	95	7626	2.50	2.21	
49 Tetrahydrofuran	42	4.845	4.845	0.000	90	12464	5.00	5.18	
50 Chloroform	83	4.863	4.863	0.000	94	32044	2.50	2.53	
51 1,1,1-Trichloroethane	97	5.015	5.016	-0.001	97	28125	2.50	2.67	
52 Cyclohexane	56	5.064	5.064	0.000	96	27576	2.50	2.59	
54 1,1-Dichloropropene	75	5.149	5.143	0.006	82	22117	2.50	2.44	
55 Carbon tetrachloride	117	5.155	5.155	0.000	93	22973	2.50	2.57	
53 Isobutyl alcohol	43	5.161	5.162	-0.001	74	19216	62.5	56.5	
57 Benzene	78	5.332	5.332	0.000	96	66642	2.50	2.45	
58 1,2-Dichloroethane	62	5.350	5.350	0.000	94	28109	2.50	2.54	
59 n-Heptane	43	5.441	5.447	-0.006	93	26887	2.50	2.54	
62 Trichloroethene	95	5.855	5.855	0.000	92	17533	2.50	2.57	
64 Methylcyclohexane	83	6.013	6.013	0.000	92	26430	2.50	2.58	
65 1,2-Dichloropropane	63	6.074	6.068	0.006	80	14736	2.50	2.25	
66 1,4-Dioxane	88	6.177	6.165	0.012	31	2081	50.0	31.5	
67 Dibromomethane	93	6.190	6.190	0.000	90	9945	2.50	2.43	M
68 Dichlorobromomethane	83	6.305	6.305	0.000	96	23844	2.50	2.53	
69 2-Chloroethyl vinyl ether	63	6.530	6.518	0.012	88	7030	2.50	2.17	
72 cis-1,3-Dichloropropene	75	6.694	6.695	-0.001	89	25119	2.50	2.30	
73 4-Methyl-2-pentanone (MIBK)	43	6.792	6.792	0.000	97	80458	12.5	11.0	
74 Toluene	92	7.005	7.005	0.000	98	42172	2.50	2.42	
77 trans-1,3-Dichloropropene	75	7.212	7.206	0.006	95	25213	2.50	2.38	
75 Ethyl methacrylate	69	7.218	7.218	0.000	68	18900	2.50	2.35	
79 1,1,2-Trichloroethane	83	7.406	7.400	0.006	93	9820	2.50	2.16	M
81 Tetrachloroethene	166	7.534	7.540	-0.006	91	17073	2.50	2.49	
82 1,3-Dichloropropane	76	7.564	7.571	-0.007	95	22508	2.50	2.26	
80 2-Hexanone	43	7.589	7.583	0.006	96	54516	12.5	11.0	
83 Chlorodibromomethane	129	7.814	7.814	0.000	87	14413	2.50	2.25	
84 Ethylene Dibromide	107	7.948	7.948	0.000	93	12463	2.50	2.24	
87 Chlorobenzene	112	8.410	8.416	-0.006	92	44896	2.50	2.45	
89 1,1,1,2-Tetrachloroethane	131	8.483	8.489	-0.006	45	17191	2.50	2.45	
88 Ethylbenzene	91	8.483	8.489	-0.006	99	75853	2.50	2.39	
90 m-Xylene & p-Xylene	106	8.599	8.605	-0.006	99	30137	2.50	2.47	
91 o-Xylene	106	9.037	9.031	0.006	96	27866	2.50	2.34	
92 Styrene	104	9.049	9.049	0.000	91	47200	2.50	2.35	
95 Bromoform	173	9.304	9.311	-0.007	92	9921	2.50	2.39	a
94 Isopropylbenzene	105	9.402	9.402	0.000	96	73293	2.50	2.38	
97 1,1,2,2-Tetrachloroethane	83	9.742	9.736	0.006	95	16172	2.50	2.35	
101 Bromobenzene	156	9.767	9.767	0.000	93	18598	2.50	2.40	
98 trans-1,4-Dichloro-2-butene	53	9.785	9.785	0.000	69	5766	2.50	2.28	
100 1,2,3-Trichloropropane	110	9.797	9.791	0.006	87	5043	2.50	2.28	
99 N-Propylbenzene	91	9.809	9.815	-0.006	99	86445	2.50	2.40	
103 2-Chlorotoluene	126	9.931	9.937	-0.006	97	17741	2.50	2.49	
102 1,3,5-Trimethylbenzene	105	9.980	9.980	0.000	92	61718	2.50	2.34	
105 4-Chlorotoluene	126	10.047	10.041	0.006	99	16933	2.50	2.34	M
106 tert-Butylbenzene	134	10.296	10.296	0.000	92	12856	2.50	2.31	
107 1,2,4-Trimethylbenzene	105	10.345	10.345	0.000	95	60693	2.50	2.30	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.497	10.497	0.000	95	74649	2.50	2.34	
110 4-Isopropyltoluene	119	10.624	10.619	0.006	96	64692	2.50	2.33	
111 1,3-Dichlorobenzene	146	10.649	10.643	0.006	95	35489	2.50	2.40	
113 1,4-Dichlorobenzene	146	10.722	10.722	0.000	94	38682	2.50	2.59	
115 n-Butylbenzene	91	10.989	10.990	-0.001	97	56811	2.50	2.34	
116 1,2-Dichlorobenzene	146	11.069	11.069	0.000	94	33194	2.50	2.36	
117 1,2-Dibromo-3-Chloropropane	75	11.732	11.732	0.000	69	3577	2.50	2.51	
119 1,2,4-Trichlorobenzene	180	12.395	12.395	0.000	93	24254	2.50	2.40	
120 Hexachlorobutadiene	225	12.504	12.504	0.000	95	13257	2.50	2.43	
121 Naphthalene	128	12.632	12.626	0.006	98	48256	2.50	2.21	
122 1,2,3-Trichlorobenzene	180	12.851	12.845	0.006	94	23619	2.50	2.47	
S 123 Total BTEX	1				0			12.1	
S 124 Xylenes, Total	1				0			4.81	
S 125 1,2-Dichloroethene, Total	1				0			4.95	
S 126 1,3-Dichloropropene, Total	1				0			4.69	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00202	Amount Added:	2.50	Units: uL	
GAS CORP mix_00440	Amount Added:	2.50	Units: uL	
F 8260 IS/SS_00117	Amount Added:	1.00	Units: uL	Run Reagent

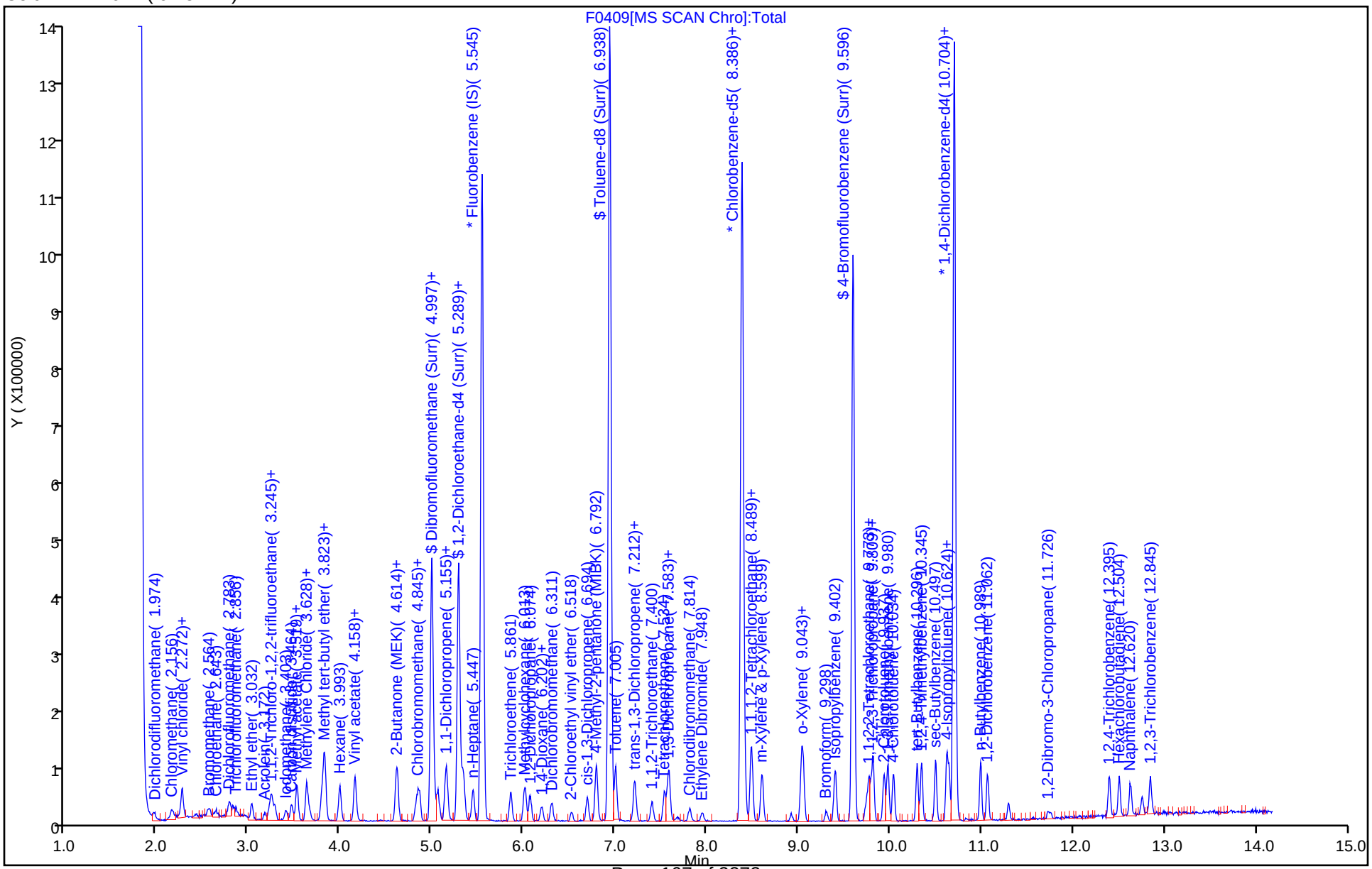
Report Date: 05-Feb-2021 09:49:08 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0409.D

Injection Date:	04-Feb-2021 12:55:30	Instrument ID:	HP5973F	Operator ID:	WD
Lims ID:	IC			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Eurofins TestAmerica, Buffalo

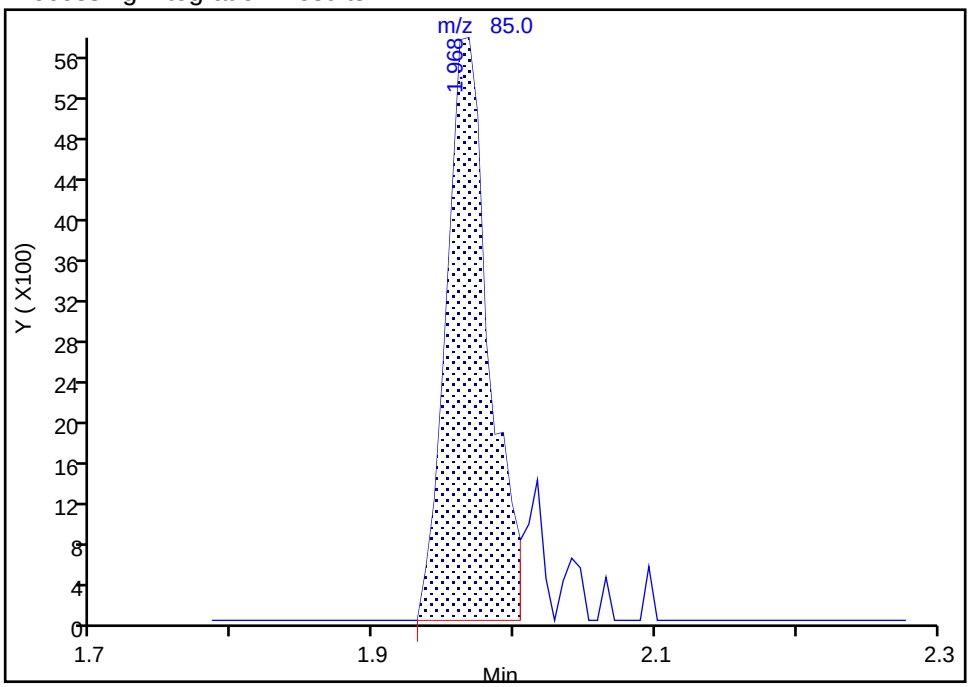
Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0409.D
Injection Date: 04-Feb-2021 12:55:30 Instrument ID: HP5973F
Lims ID: IC
Client ID:
Operator ID: WD ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

10 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

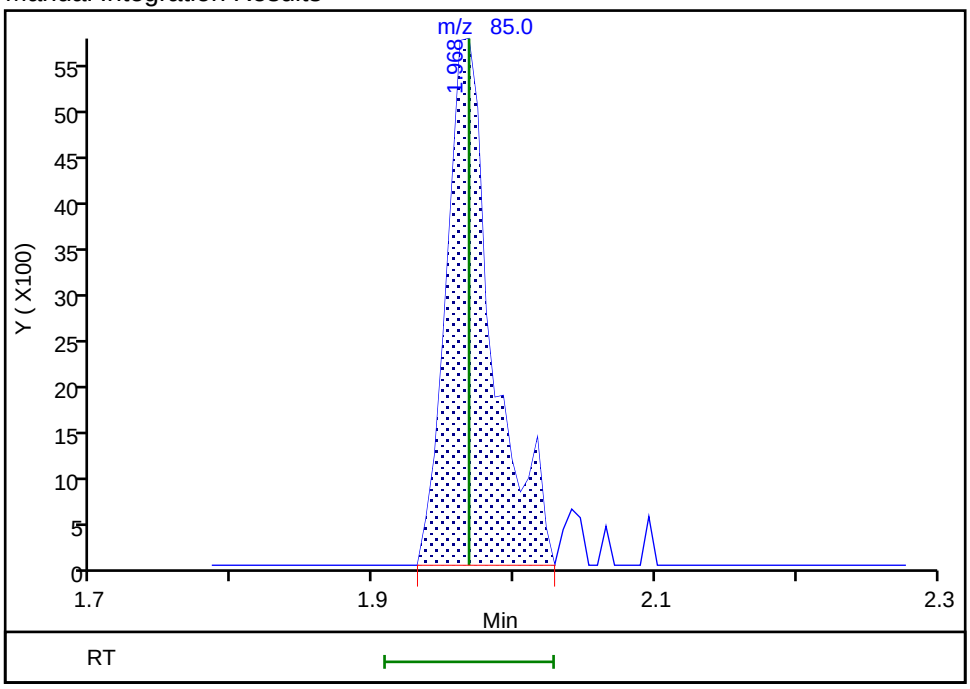
Processing Integration Results

RT: 1.97
Area: 12108
Amount: 2.110872
Amount Units: ug/kg



Manual Integration Results

RT: 1.97
Area: 13111
Amount: 2.263119
Amount Units: ug/kg



Reviewer: dahnw, 05-Feb-2021 09:04:58
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

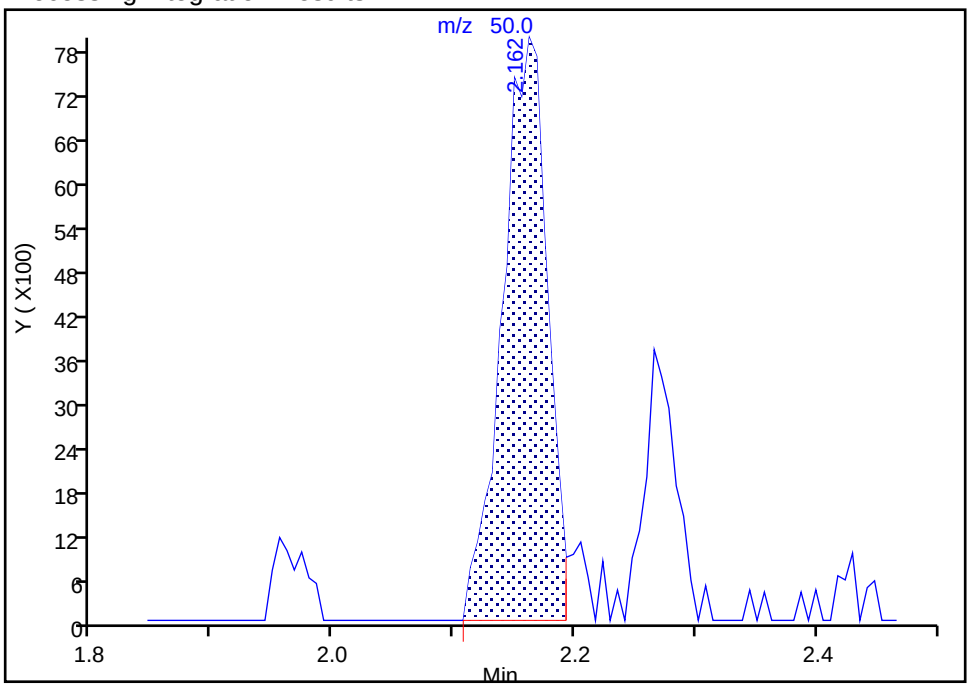
Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0409.D
Injection Date: 04-Feb-2021 12:55:30 Instrument ID: HP5973F
Lims ID: IC
Client ID:
Operator ID: WD ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

12 Chloromethane, CAS: 74-87-3

Signal: 1

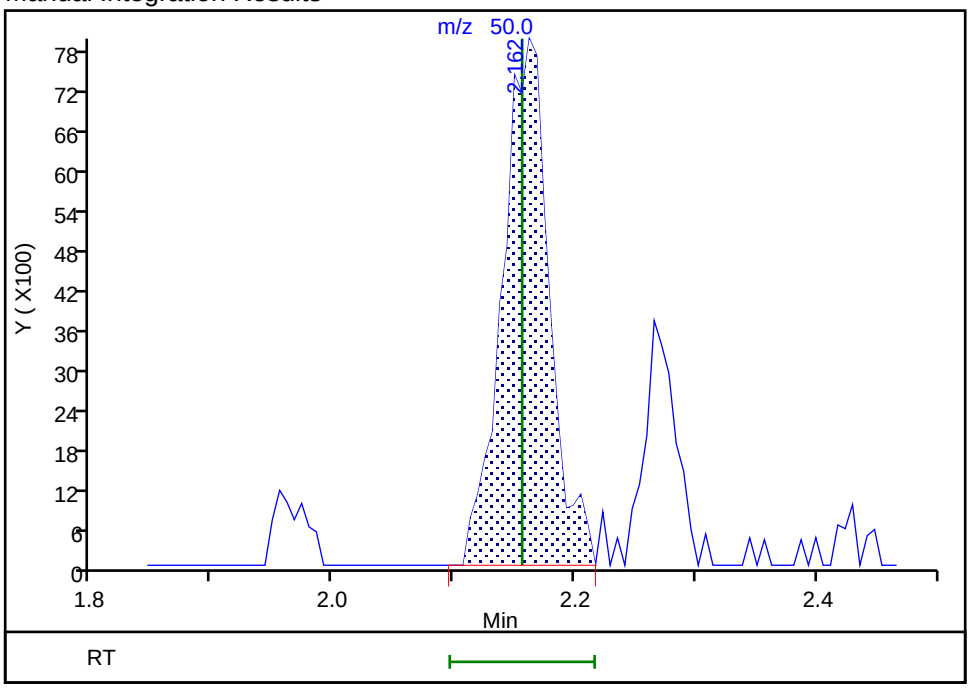
Processing Integration Results

RT: 2.16
Area: 20674
Amount: 2.693594
Amount Units: ug/kg



Manual Integration Results

RT: 2.16
Area: 21612
Amount: 2.796277
Amount Units: ug/kg



Reviewer: dahnw, 05-Feb-2021 09:05:07
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

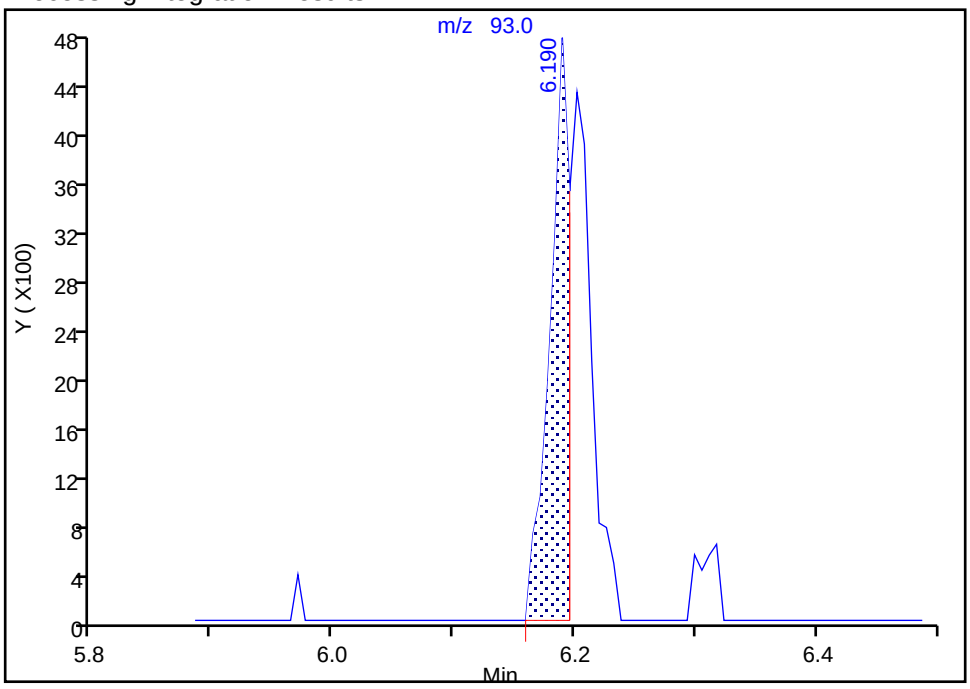
Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0409.D
Injection Date: 04-Feb-2021 12:55:30 Instrument ID: HP5973F
Lims ID: IC
Client ID:
Operator ID: WD ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

67 Dibromomethane, CAS: 74-95-3

Signal: 1

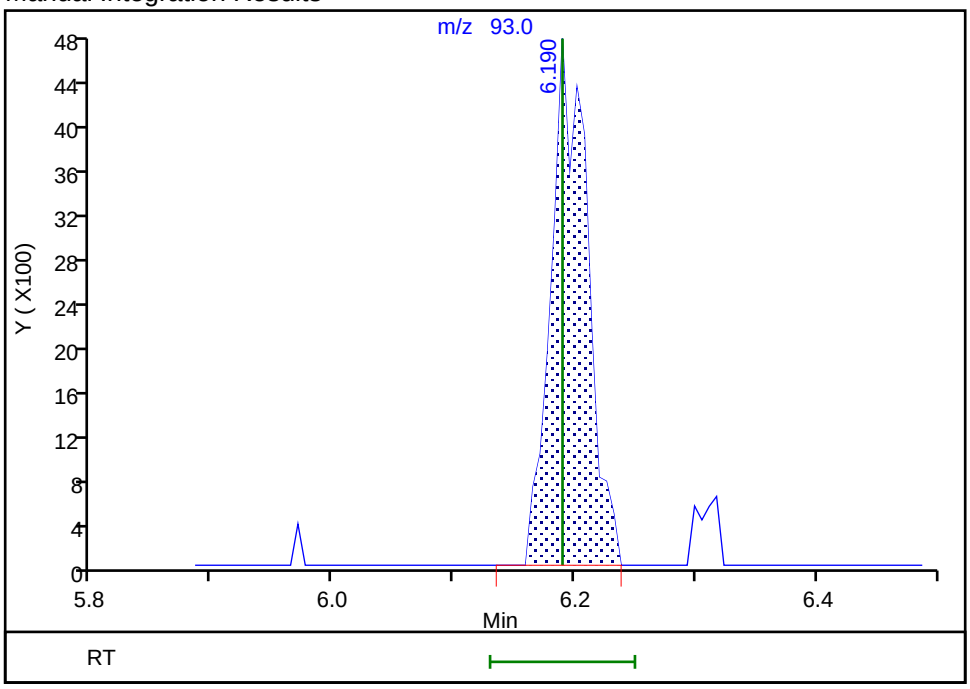
Processing Integration Results

RT: 6.19
Area: 5468
Amount: 2.223068
Amount Units: ug/kg



Manual Integration Results

RT: 6.19
Area: 9945
Amount: 2.429977
Amount Units: ug/kg



Reviewer: dahnw, 05-Feb-2021 09:05:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

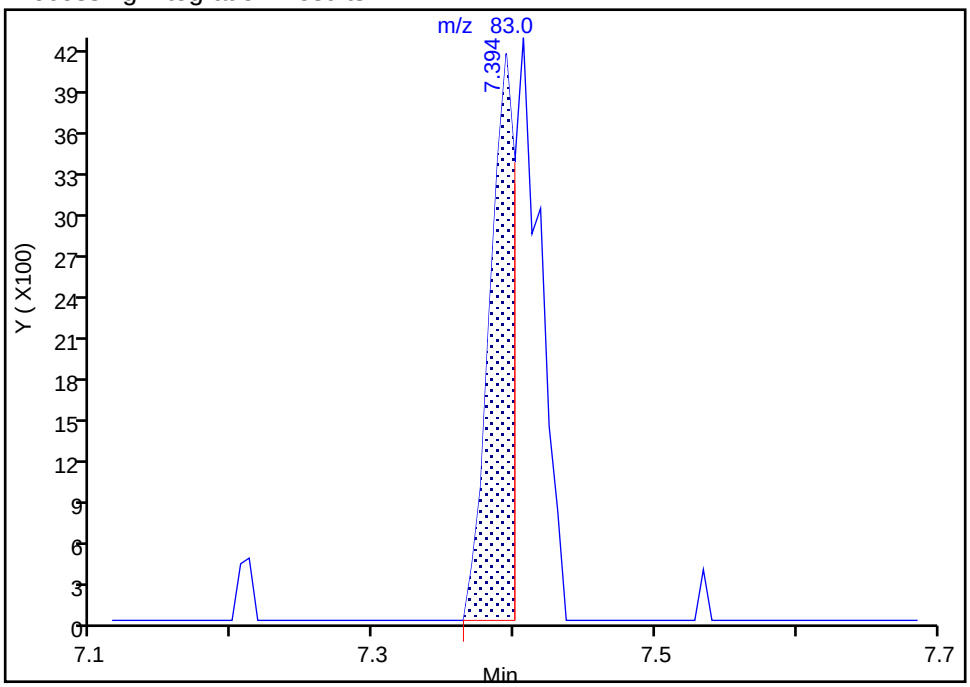
Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0409.D
Injection Date: 04-Feb-2021 12:55:30 Instrument ID: HP5973F
Lims ID: IC
Client ID:
Operator ID: WD ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

79 1,1,2-Trichloroethane, CAS: 79-00-5

Signal: 1

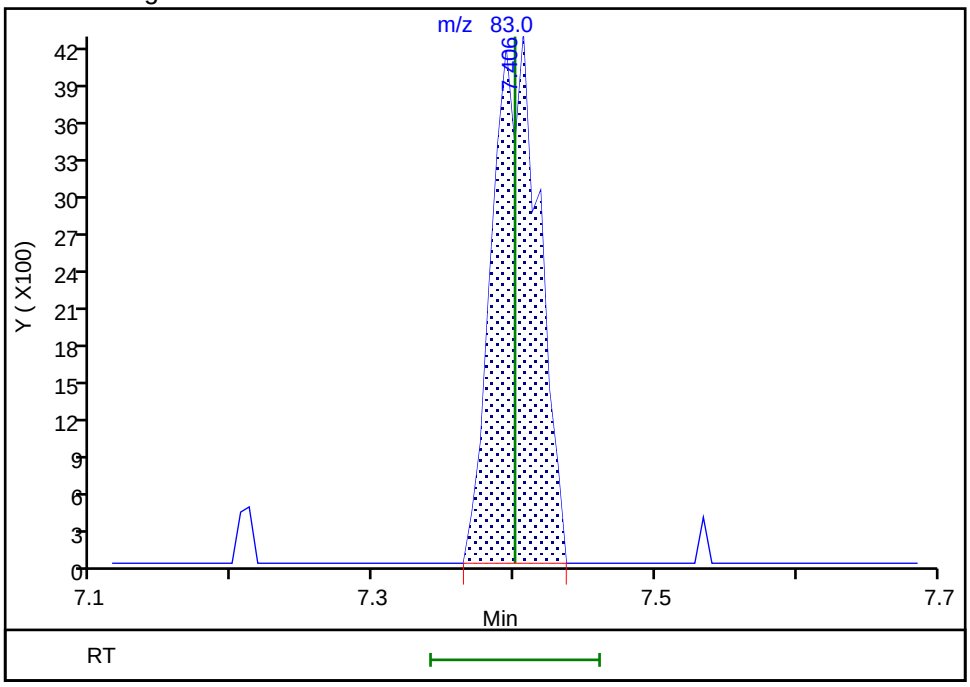
Processing Integration Results

RT: 7.39
Area: 5307
Amount: 2.230231
Amount Units: ug/kg



Manual Integration Results

RT: 7.41
Area: 9820
Amount: 2.156281
Amount Units: ug/kg



Reviewer: dahnw, 05-Feb-2021 09:05:44
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

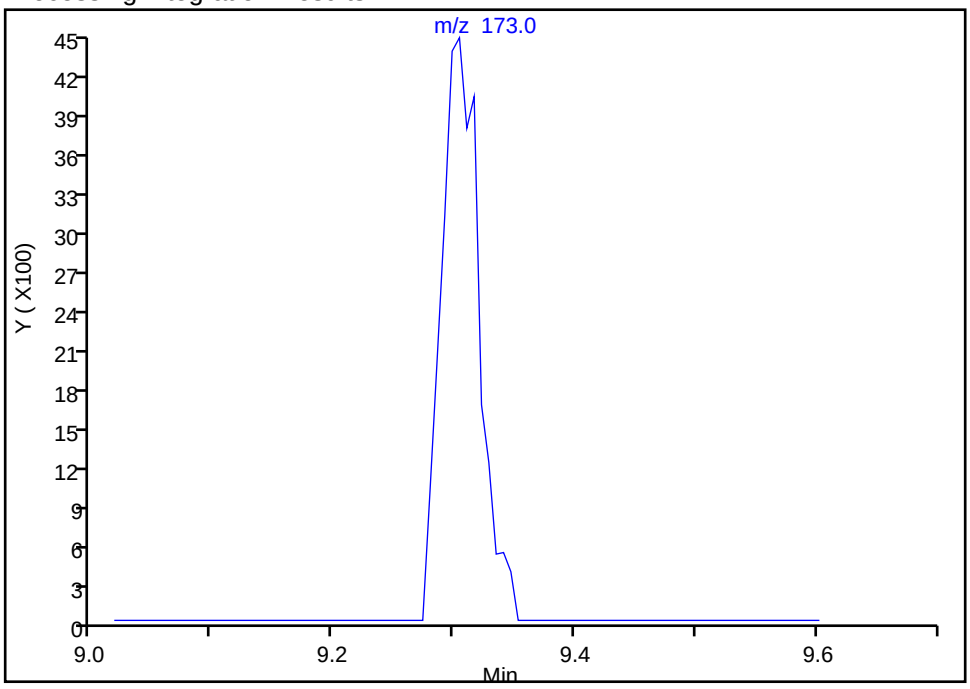
Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0409.D
Injection Date: 04-Feb-2021 12:55:30 Instrument ID: HP5973F
Lims ID: IC
Client ID:
Operator ID: WD ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

95 Bromoform, CAS: 75-25-2

Signal: 1

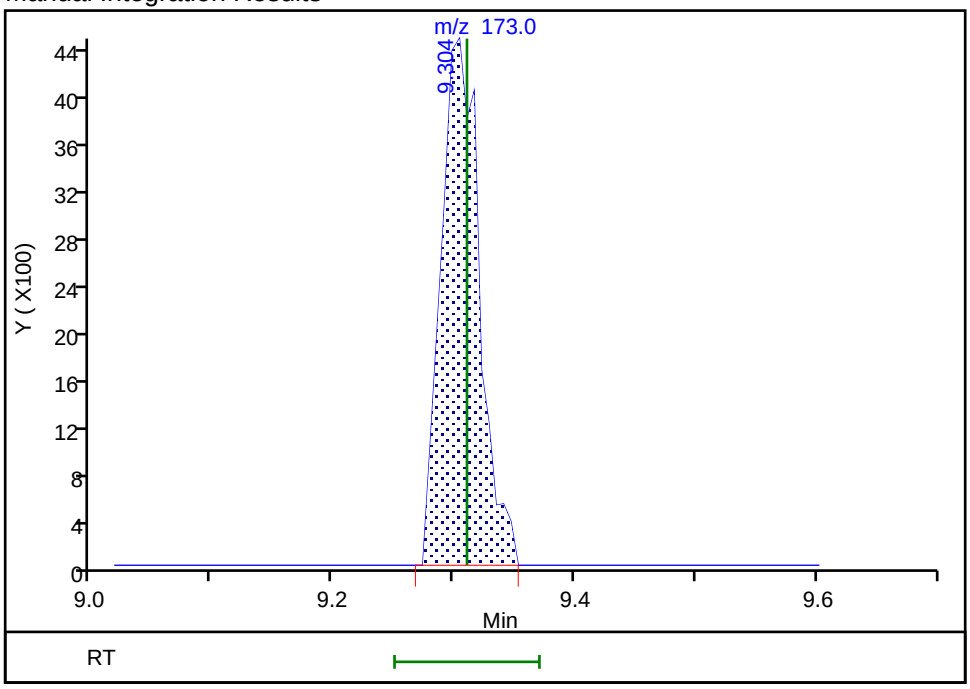
Not Detected
Expected RT: 9.31

Processing Integration Results



Manual Integration Results

RT: 9.30
Area: 9921
Amount: 2.394141
Amount Units: ug/kg



Reviewer: dahnw, 05-Feb-2021 09:05:55
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

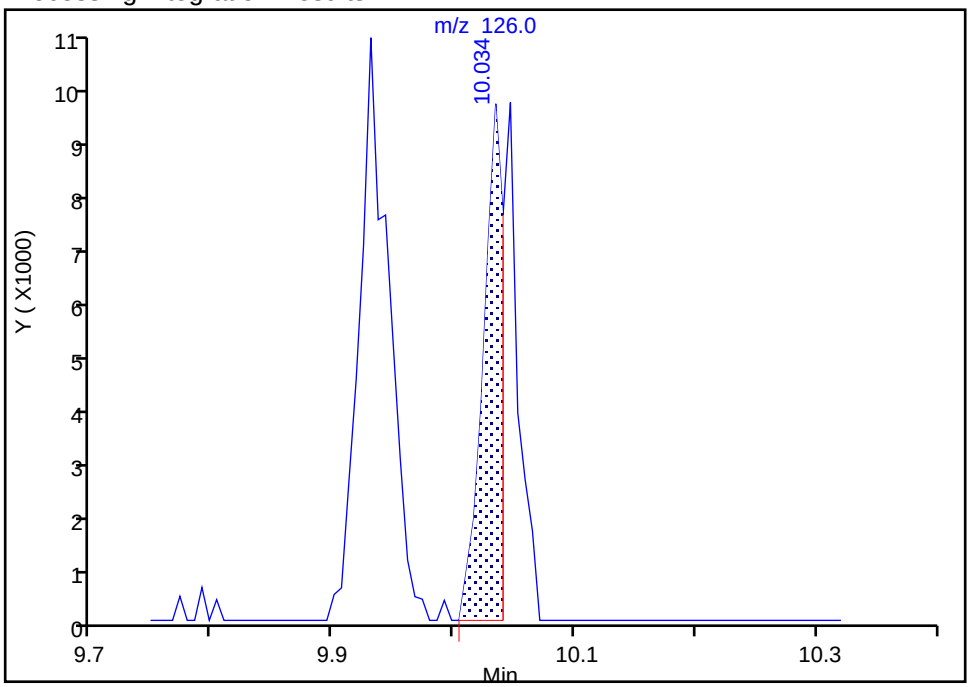
Data File:	\\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0409.D				
Injection Date:	04-Feb-2021 12:55:30	Instrument ID:	HP5973F		
Lims ID:	IC				
Client ID:					
Operator ID:	WD	ALS Bottle#:	4	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

105 4-Chlorotoluene, CAS: 106-43-4

Signal: 1

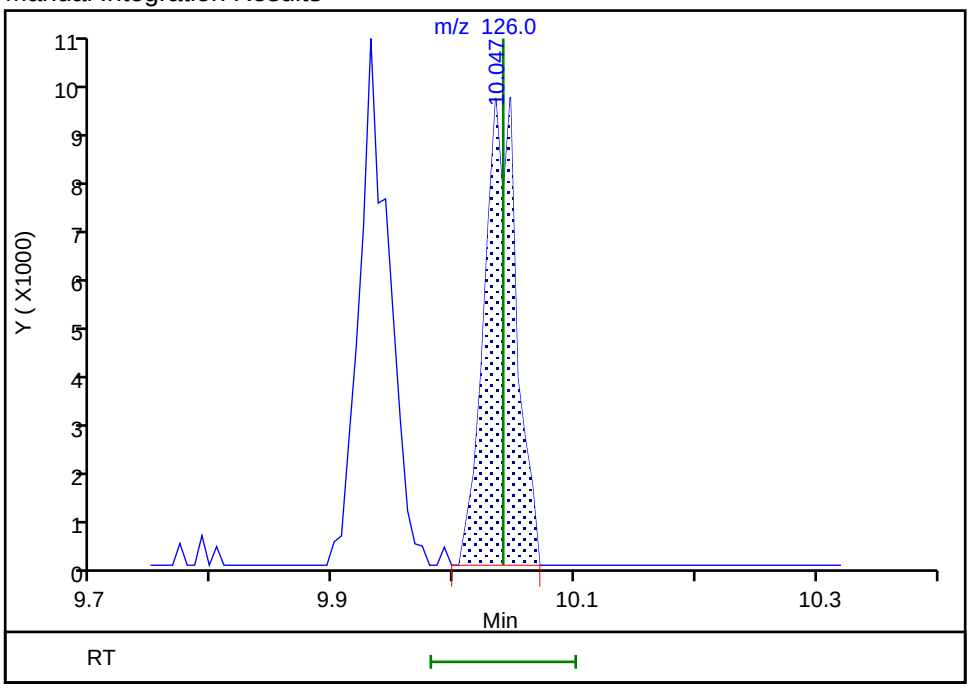
Processing Integration Results

RT: 10.03
Area: 10765
Amount: 2.114772
Amount Units: ug/kg



Manual Integration Results

RT: 10.05
Area: 16933
Amount: 2.336111
Amount Units: ug/kg



Reviewer: dahnw, 05-Feb-2021 09:06:03

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0410.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 04-Feb-2021 13:21:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 2
Misc. Info.: 480-0096467-005
Operator ID: WD Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 05-Feb-2021 09:49:13 Calib Date: 04-Feb-2021 19:06:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0423.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1680

First Level Reviewer: dahnw Date: 05-Feb-2021 09:06:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.545	5.551	-0.006	98	219284	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.380	8.386	-0.006	90	435159	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.704	10.704	0.000	97	382182	50.0	50.0	
$ 154 Dibromofluoromethane (Surr)	113	4.997	4.991	0.006	93	274272	50.0	50.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.289	5.283	0.006	97	175032	50.0	50.8	
$ 5 Toluene-d8 (Surr)	98	6.938	6.938	0.000	95	1024419	50.0	50.0	
$ 6 4-Bromofluorobenzene (Surr)	174	9.602	9.603	-0.001	90	299744	50.0	49.0	
10 Dichlorodifluoromethane	85	1.968	1.968	0.000	95	32637	5.00	5.56	
12 Chloromethane	50	2.162	2.156	0.006	99	44957	5.00	5.74	
13 Vinyl chloride	62	2.260	2.260	0.000	96	37505	5.00	5.51	
151 Butadiene	54	2.272	2.272	0.000	97	37851	5.00	5.46	
14 Bromomethane	94	2.570	2.564	0.006	93	25793	5.00	5.89	
15 Chloroethane	64	2.643	2.637	0.006	95	22870	5.00	5.81	
16 Dichlorofluoromethane	67	2.789	2.783	0.006	98	55794	5.00	5.71	
17 Trichlorofluoromethane	101	2.838	2.825	0.013	94	44596	5.00	5.40	
18 Ethyl ether	59	3.032	3.026	0.006	93	31772	5.00	5.10	
20 Acrolein	56	3.166	3.172	-0.006	94	17561	25.0	24.7	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.227	3.227	0.000	81	18382	5.00	3.75	
22 1,1-Dichloroethene	96	3.245	3.245	0.000	95	26714	5.00	5.10	
23 Acetone	43	3.282	3.282	0.000	98	59906	25.0	25.3	
25 Iodomethane	142	3.403	3.397	0.006	99	49778	5.00	4.93	
26 Carbon disulfide	76	3.470	3.464	0.006	99	87246	5.00	4.73	
27 Methyl acetate	43	3.519	3.513	0.006	90	53754	10.0	9.62	
28 3-Chloro-1-propene	41	3.525	3.525	0.000	84	60591	5.00	4.84	
30 Methylene Chloride	84	3.628	3.628	0.000	98	47935	5.00	5.29	
31 2-Methyl-2-propanol	59	3.665	3.659	0.006	97	35123	50.0	47.0	
32 Methyl tert-butyl ether	73	3.799	3.793	0.006	97	95595	5.00	4.83	
33 Acrylonitrile	53	3.823	3.817	0.006	100	120678	50.0	46.4	
34 trans-1,2-Dichloroethene	96	3.835	3.829	0.006	92	30671	5.00	4.74	
35 Hexane	57	3.993	3.993	0.000	93	44841	5.00	4.65	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	4.152	4.152	0.000	98	152951	10.0	9.16	
39 1,1-Dichloroethane	63	4.164	4.164	0.000	61	61853	5.00	5.00	
43 2-Butanone (MEK)	43	4.602	4.602	0.000	98	81423	25.0	22.9	
44 2,2-Dichloropropane	77	4.620	4.614	0.006	68	42844	5.00	5.12	
45 cis-1,2-Dichloroethene	96	4.626	4.620	0.006	83	37103	5.00	5.05	
48 Chlorobromomethane	128	4.827	4.821	0.006	96	18015	5.00	5.17	
49 Tetrahydrofuran	42	4.851	4.845	0.006	64	24203	10.0	9.93	
50 Chloroform	83	4.857	4.863	-0.006	94	64958	5.00	5.07	
51 1,1,1-Trichloroethane	97	5.015	5.016	-0.001	86	53222	5.00	4.98	
52 Cyclohexane	56	5.064	5.064	0.000	92	44088	5.00	4.09	
54 1,1-Dichloropropene	75	5.149	5.143	0.006	83	42639	5.00	4.64	
55 Carbon tetrachloride	117	5.155	5.155	0.000	90	41878	5.00	4.63	
53 Isobutyl alcohol	43	5.168	5.162	0.006	87	36492	125.0	106.0	
57 Benzene	78	5.326	5.332	-0.006	97	135938	5.00	4.93	
58 1,2-Dichloroethane	62	5.356	5.350	0.006	97	58052	5.00	5.17	
59 n-Heptane	43	5.447	5.447	0.000	94	42018	5.00	3.91	
62 Trichloroethene	95	5.855	5.855	0.000	95	34109	5.00	4.94	
64 Methylcyclohexane	83	6.013	6.013	0.000	93	41344	5.00	3.98	
65 1,2-Dichloropropane	63	6.074	6.068	0.006	86	31516	5.00	4.75	
66 1,4-Dioxane	88	6.159	6.165	-0.006	27	5753	100.0	89.2	M
67 Dibromomethane	93	6.196	6.190	0.006	93	20039	5.00	4.84	
68 Dichlorobromomethane	83	6.305	6.305	0.000	95	46480	5.00	4.87	
69 2-Chloroethyl vinyl ether	63	6.524	6.518	0.006	93	14367	5.00	4.37	
72 cis-1,3-Dichloropropene	75	6.695	6.695	-0.001	87	48727	5.00	4.42	
73 4-Methyl-2-pentanone (MIBK)	43	6.792	6.792	0.000	98	156584	25.0	22.0	
74 Toluene	92	7.005	7.005	0.000	98	84522	5.00	4.96	
77 trans-1,3-Dichloropropene	75	7.212	7.206	0.006	91	46915	5.00	4.54	
75 Ethyl methacrylate	69	7.218	7.218	0.000	70	32250	5.00	4.11	
79 1,1,2-Trichloroethane	83	7.400	7.400	0.000	94	22092	5.00	4.97	
81 Tetrachloroethene	166	7.534	7.540	-0.006	93	32378	5.00	4.84	
82 1,3-Dichloropropane	76	7.577	7.571	0.006	96	46217	5.00	4.74	
80 2-Hexanone	43	7.589	7.583	0.006	96	102367	25.0	21.2	
83 Chlorodibromomethane	129	7.820	7.814	0.006	89	28450	5.00	4.54	
84 Ethylene Dibromide	107	7.948	7.948	0.000	97	25753	5.00	4.75	
87 Chlorobenzene	112	8.416	8.416	0.000	93	86502	5.00	4.83	
89 1,1,1,2-Tetrachloroethane	131	8.489	8.489	0.000	45	32127	5.00	4.69	
88 Ethylbenzene	91	8.489	8.489	0.000	99	152018	5.00	4.90	
90 m-Xylene & p-Xylene	106	8.599	8.605	-0.006	99	59374	5.00	4.98	
91 o-Xylene	106	9.037	9.031	0.006	97	55219	5.00	4.75	
92 Styrene	104	9.055	9.049	0.006	96	89783	5.00	4.58	
95 Bromoform	173	9.310	9.311	-0.001	91	17801	5.00	4.40	
94 Isopropylbenzene	105	9.402	9.402	0.000	96	146224	5.00	4.88	
97 1,1,2,2-Tetrachloroethane	83	9.730	9.736	-0.006	95	31624	5.00	4.73	
101 Bromobenzene	156	9.767	9.767	0.000	94	37827	5.00	5.02	
98 trans-1,4-Dichloro-2-butene	53	9.785	9.785	0.000	70	11368	5.00	4.63	
100 1,2,3-Trichloropropane	110	9.785	9.791	-0.006	80	10617	5.00	4.93	
99 N-Propylbenzene	91	9.815	9.815	0.000	99	170919	5.00	4.87	
103 2-Chlorotoluene	126	9.931	9.937	-0.006	95	34969	5.00	5.05	
102 1,3,5-Trimethylbenzene	105	9.974	9.980	-0.006	93	128596	5.00	5.01	
105 4-Chlorotoluene	126	10.034	10.041	-0.007	99	36727	5.00	5.20	
106 tert-Butylbenzene	134	10.296	10.296	0.000	91	26456	5.00	4.89	
107 1,2,4-Trimethylbenzene	105	10.345	10.345	0.000	96	123657	5.00	4.81	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.497	10.497	0.000	95	146979	5.00	4.73	
110 4-Isopropyltoluene	119	10.625	10.619	0.006	97	128894	5.00	4.77	
111 1,3-Dichlorobenzene	146	10.649	10.643	0.006	96	73146	5.00	5.09	
113 1,4-Dichlorobenzene	146	10.722	10.722	0.000	95	73402	5.00	5.04	
115 n-Butylbenzene	91	10.990	10.990	0.000	97	114346	5.00	4.84	
116 1,2-Dichlorobenzene	146	11.069	11.069	0.000	97	70133	5.00	5.13	
117 1,2-Dibromo-3-Chloropropane	75	11.732	11.732	0.000	73	6871	5.00	4.94	
119 1,2,4-Trichlorobenzene	180	12.401	12.395	0.006	93	51495	5.00	5.23	
120 Hexachlorobutadiene	225	12.504	12.504	0.000	96	25396	5.00	4.78	
121 Naphthalene	128	12.632	12.626	0.006	98	98907	5.00	4.66	
122 1,2,3-Trichlorobenzene	180	12.845	12.845	0.000	95	46339	5.00	4.99	
S 123 Total BTEX	1				0			24.5	
S 124 Xylenes, Total	1				0			9.73	
S 125 1,2-Dichloroethene, Total	1				0			9.79	
S 126 1,3-Dichloropropene, Total	1				0			8.96	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00202	Amount Added:	5.00	Units: uL	
GAS CORP mix_00440	Amount Added:	5.00	Units: uL	
F 8260 IS/SS_00117	Amount Added:	1.00	Units: uL	Run Reagent

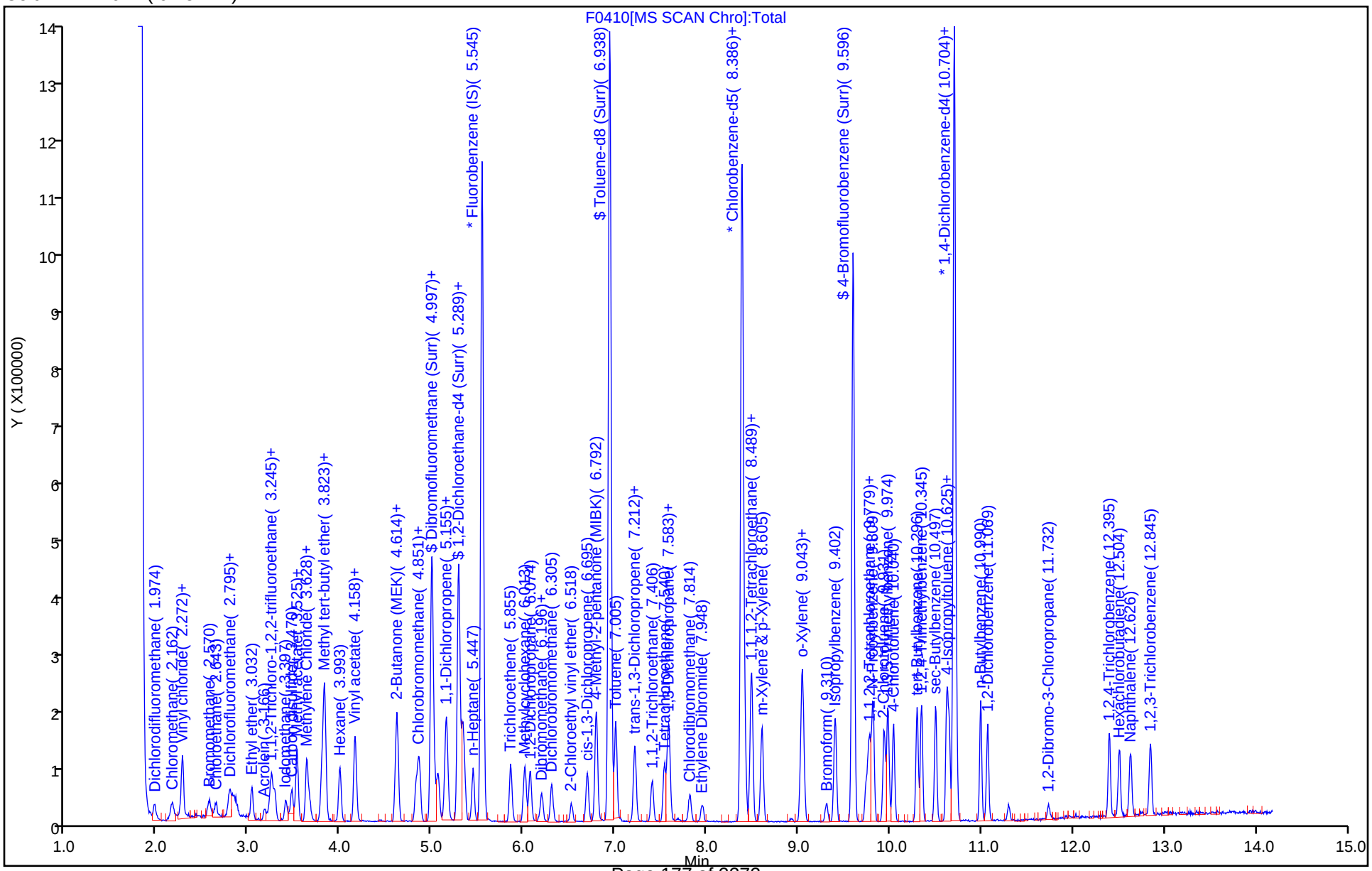
Report Date: 05-Feb-2021 09:49:15 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0410.D

Injection Date:	04-Feb-2021 13:21:30	Instrument ID:	HP5973F	Operator ID:	WD
Lims ID:	IC 2			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

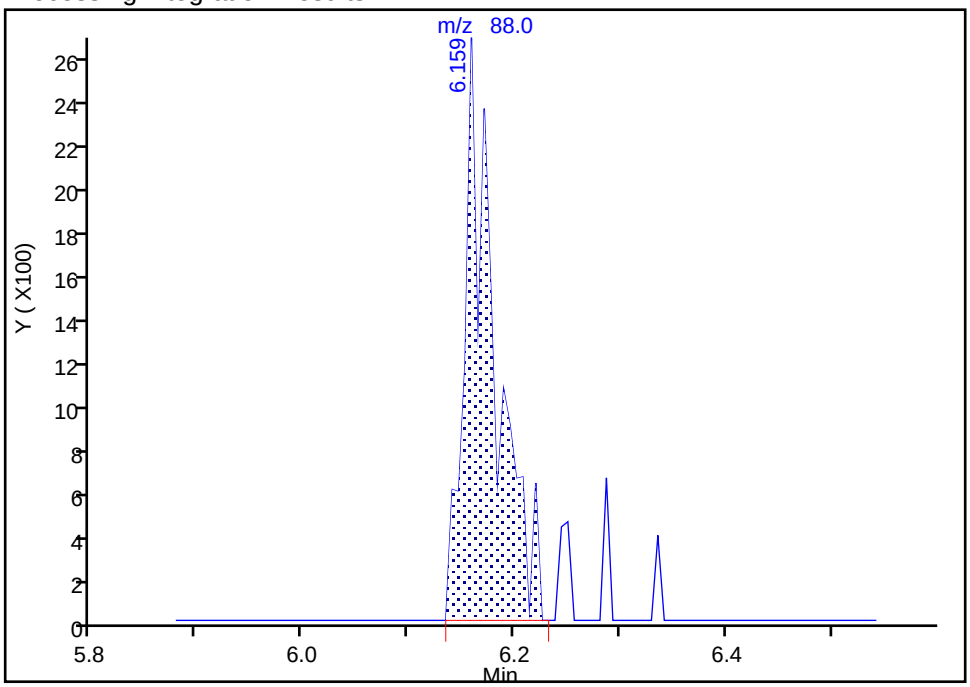
Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0410.D
Injection Date: 04-Feb-2021 13:21:30 Instrument ID: HP5973F
Lims ID: IC 2
Client ID:
Operator ID: WD ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

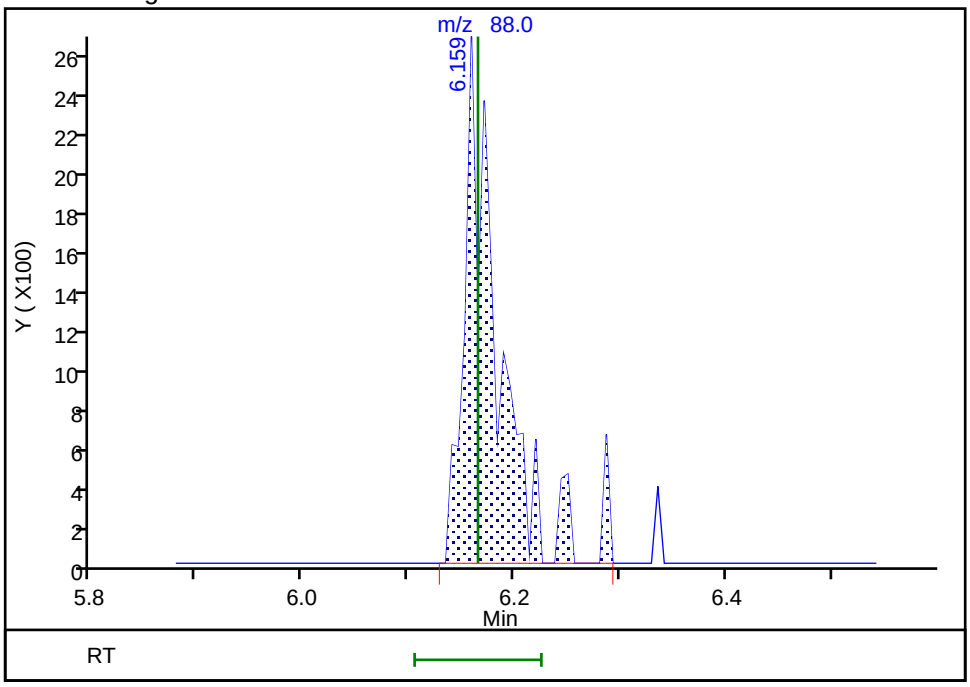
Processing Integration Results

RT: 6.16
Area: 5207
Amount: 91.574584
Amount Units: ug/kg



Manual Integration Results

RT: 6.16
Area: 5753
Amount: 89.164646
Amount Units: ug/kg



Reviewer: dahnw, 05-Feb-2021 09:06:42
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0411.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 04-Feb-2021 13:48:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 3
Misc. Info.: 480-0096467-006
Operator ID: WD Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 05-Feb-2021 09:49:20 Calib Date: 04-Feb-2021 19:06:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0423.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1680

First Level Reviewer: dahnw Date: 05-Feb-2021 09:07:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.545	5.551	-0.006	98	223846	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.386	8.386	0.000	89	442361	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.704	10.704	0.000	97	397609	50.0	50.0	
$ 154 Dibromofluoromethane (Surr)	113	4.991	4.991	0.000	93	279215	50.0	49.9	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.289	5.283	0.006	99	173266	50.0	49.2	
$ 5 Toluene-d8 (Surr)	98	6.938	6.938	0.000	95	1054529	50.0	50.6	
$ 6 4-Bromofluorobenzene (Surr)	174	9.602	9.603	-0.001	91	317221	50.0	51.0	
10 Dichlorodifluoromethane	85	1.967	1.968	-0.001	98	58868	10.0	9.83	
12 Chloromethane	50	2.156	2.156	0.000	99	76888	10.0	9.62	
13 Vinyl chloride	62	2.253	2.260	-0.007	96	68244	10.0	9.82	
151 Butadiene	54	2.272	2.272	0.000	96	72142	10.0	10.2	
14 Bromomethane	94	2.558	2.564	-0.006	91	44292	10.0	9.90	
15 Chloroethane	64	2.637	2.637	0.000	99	38895	10.0	9.69	
16 Dichlorofluoromethane	67	2.789	2.783	0.006	97	95832	10.0	9.60	
17 Trichlorofluoromethane	101	2.831	2.825	0.006	98	87117	10.0	10.3	
18 Ethyl ether	59	3.032	3.026	0.006	92	66048	10.0	10.4	
20 Acrolein	56	3.172	3.172	0.000	99	38977	50.0	53.7	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.227	3.227	0.000	93	55577	10.0	11.1	
22 1,1-Dichloroethene	96	3.251	3.245	0.006	94	55111	10.0	10.3	
23 Acetone	43	3.282	3.282	0.000	97	121072	50.0	50.0	
25 Iodomethane	142	3.403	3.397	0.006	99	111620	10.0	10.8	
26 Carbon disulfide	76	3.464	3.464	0.000	100	201524	10.0	10.7	
27 Methyl acetate	43	3.519	3.513	0.006	88	113802	20.0	19.9	
28 3-Chloro-1-propene	41	3.525	3.525	0.000	82	132821	10.0	10.4	
30 Methylene Chloride	84	3.628	3.628	0.000	97	82588	10.0	10.1	
31 2-Methyl-2-propanol	59	3.659	3.659	0.000	98	74044	100.0	97.1	
32 Methyl tert-butyl ether	73	3.799	3.793	0.006	97	209558	10.0	10.4	
33 Acrylonitrile	53	3.817	3.817	0.000	98	260320	100.0	98.1	
34 trans-1,2-Dichloroethene	96	3.835	3.829	0.006	85	69318	10.0	10.5	
35 Hexane	57	3.993	3.993	0.000	93	111353	10.0	11.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	4.151	4.152	-0.001	97	343032	20.0	20.1	
39 1,1-Dichloroethane	63	4.164	4.164	0.000	97	131244	10.0	10.4	
43 2-Butanone (MEK)	43	4.602	4.602	0.000	98	173642	50.0	47.8	
44 2,2-Dichloropropane	77	4.614	4.614	0.000	68	95338	10.0	11.2	
45 cis-1,2-Dichloroethene	96	4.620	4.620	0.000	85	76409	10.0	10.2	
48 Chlorobromomethane	128	4.827	4.821	0.006	95	35661	10.0	10.0	
49 Tetrahydrofuran	42	4.851	4.845	0.006	87	46778	20.0	18.8	
50 Chloroform	83	4.863	4.863	0.000	95	138300	10.0	10.6	
51 1,1,1-Trichloroethane	97	5.021	5.016	0.005	98	115187	10.0	10.6	
52 Cyclohexane	56	5.064	5.064	0.000	94	116094	10.0	10.6	
54 1,1-Dichloropropene	75	5.149	5.143	0.006	93	99193	10.0	10.6	
55 Carbon tetrachloride	117	5.161	5.155	0.006	93	100610	10.0	10.9	
53 Isobutyl alcohol	43	5.161	5.162	-0.001	95	87978	250.0	250.5	
57 Benzene	78	5.332	5.332	0.000	98	287415	10.0	10.2	
58 1,2-Dichloroethane	62	5.350	5.350	0.000	97	119693	10.0	10.4	
59 n-Heptane	43	5.447	5.447	0.000	95	116425	10.0	10.6	
62 Trichloroethene	95	5.861	5.855	0.006	93	73437	10.0	10.4	
64 Methylcyclohexane	83	6.013	6.013	0.000	96	110054	10.0	10.4	
65 1,2-Dichloropropane	63	6.074	6.068	0.006	91	72642	10.0	10.7	
66 1,4-Dioxane	88	6.171	6.165	0.006	92	10935	200.0	166.7	
67 Dibromomethane	93	6.196	6.190	0.006	94	44631	10.0	10.5	
68 Dichlorobromomethane	83	6.305	6.305	0.000	97	97247	10.0	9.97	
69 2-Chloroethyl vinyl ether	63	6.518	6.518	0.000	92	31240	10.0	9.32	
72 cis-1,3-Dichloropropene	75	6.694	6.695	-0.001	91	112534	10.0	9.99	
73 4-Methyl-2-pentanone (MIBK)	43	6.792	6.792	0.000	99	363764	50.0	50.3	
74 Toluene	92	7.005	7.005	0.000	98	187321	10.0	10.8	
77 trans-1,3-Dichloropropene	75	7.205	7.206	-0.001	98	108303	10.0	10.3	
75 Ethyl methacrylate	69	7.218	7.218	0.000	91	81307	10.0	10.2	
79 1,1,2-Trichloroethane	83	7.400	7.400	0.000	95	47740	10.0	10.6	
81 Tetrachloroethene	166	7.540	7.540	0.000	93	70461	10.0	10.4	
82 1,3-Dichloropropane	76	7.570	7.571	-0.001	95	103904	10.0	10.5	
80 2-Hexanone	43	7.583	7.583	0.000	98	244676	50.0	49.8	
83 Chlorodibromomethane	129	7.808	7.814	-0.006	91	64272	10.0	10.1	
84 Ethylene Dibromide	107	7.948	7.948	0.000	98	57135	10.0	10.4	
87 Chlorobenzene	112	8.416	8.416	0.000	93	189416	10.0	10.4	
89 1,1,1,2-Tetrachloroethane	131	8.489	8.489	0.000	45	72686	10.0	10.4	
88 Ethylbenzene	91	8.489	8.489	0.000	98	329605	10.0	10.5	
90 m-Xylene & p-Xylene	106	8.605	8.605	0.000	99	127130	10.0	10.5	
91 o-Xylene	106	9.031	9.031	0.000	97	127384	10.0	10.8	
92 Styrene	104	9.055	9.049	0.006	95	201489	10.0	10.1	
95 Bromoform	173	9.310	9.311	-0.001	93	40630	10.0	9.88	
94 Isopropylbenzene	105	9.402	9.402	0.000	96	329844	10.0	10.6	
97 1,1,2,2-Tetrachloroethane	83	9.736	9.736	0.000	95	69588	10.0	10.0	
101 Bromobenzene	156	9.773	9.767	0.006	92	81081	10.0	10.3	
98 trans-1,4-Dichloro-2-butene	53	9.785	9.785	0.000	72	26615	10.0	10.4	
100 1,2,3-Trichloropropane	110	9.797	9.791	0.006	85	24652	10.0	11.0	
99 N-Propylbenzene	91	9.815	9.815	0.000	98	381144	10.0	10.4	
103 2-Chlorotoluene	126	9.937	9.937	0.000	95	73278	10.0	10.2	
102 1,3,5-Trimethylbenzene	105	9.980	9.980	0.000	94	278576	10.0	10.4	
105 4-Chlorotoluene	126	10.034	10.041	-0.007	98	78843	10.0	10.7	
106 tert-Butylbenzene	134	10.296	10.296	0.000	92	59903	10.0	10.6	
107 1,2,4-Trimethylbenzene	105	10.345	10.345	0.000	96	283957	10.0	10.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.503	10.497	0.006	95	345161	10.0	10.7	
110 4-Isopropyltoluene	119	10.624	10.619	0.006	96	295632	10.0	10.5	
111 1,3-Dichlorobenzene	146	10.649	10.643	0.006	96	156995	10.0	10.5	
113 1,4-Dichlorobenzene	146	10.722	10.722	0.000	93	156863	10.0	10.4	
115 n-Butylbenzene	91	10.989	10.990	-0.001	98	257429	10.0	10.5	
116 1,2-Dichlorobenzene	146	11.069	11.069	0.000	95	146213	10.0	10.3	
117 1,2-Dibromo-3-Chloropropane	75	11.732	11.732	0.000	78	14081	10.0	9.74	
119 1,2,4-Trichlorobenzene	180	12.401	12.395	0.006	93	107105	10.0	10.5	
120 Hexachlorobutadiene	225	12.504	12.504	0.000	97	58419	10.0	10.6	
121 Naphthalene	128	12.626	12.626	0.000	98	218756	10.0	9.91	
122 1,2,3-Trichlorobenzene	180	12.845	12.845	0.000	94	98539	10.0	10.2	
S 123 Total BTEX	1				0			52.7	
S 124 Xylenes, Total	1				0			21.3	
S 125 1,2-Dichloroethene, Total	1				0			20.7	
S 126 1,3-Dichloropropene, Total	1				0			20.3	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00202	Amount Added: 10.00	Units: uL	
GAS CORP mix_00440	Amount Added: 10.00	Units: uL	
F 8260 IS/SS_00117	Amount Added: 1.00	Units: uL	Run Reagent

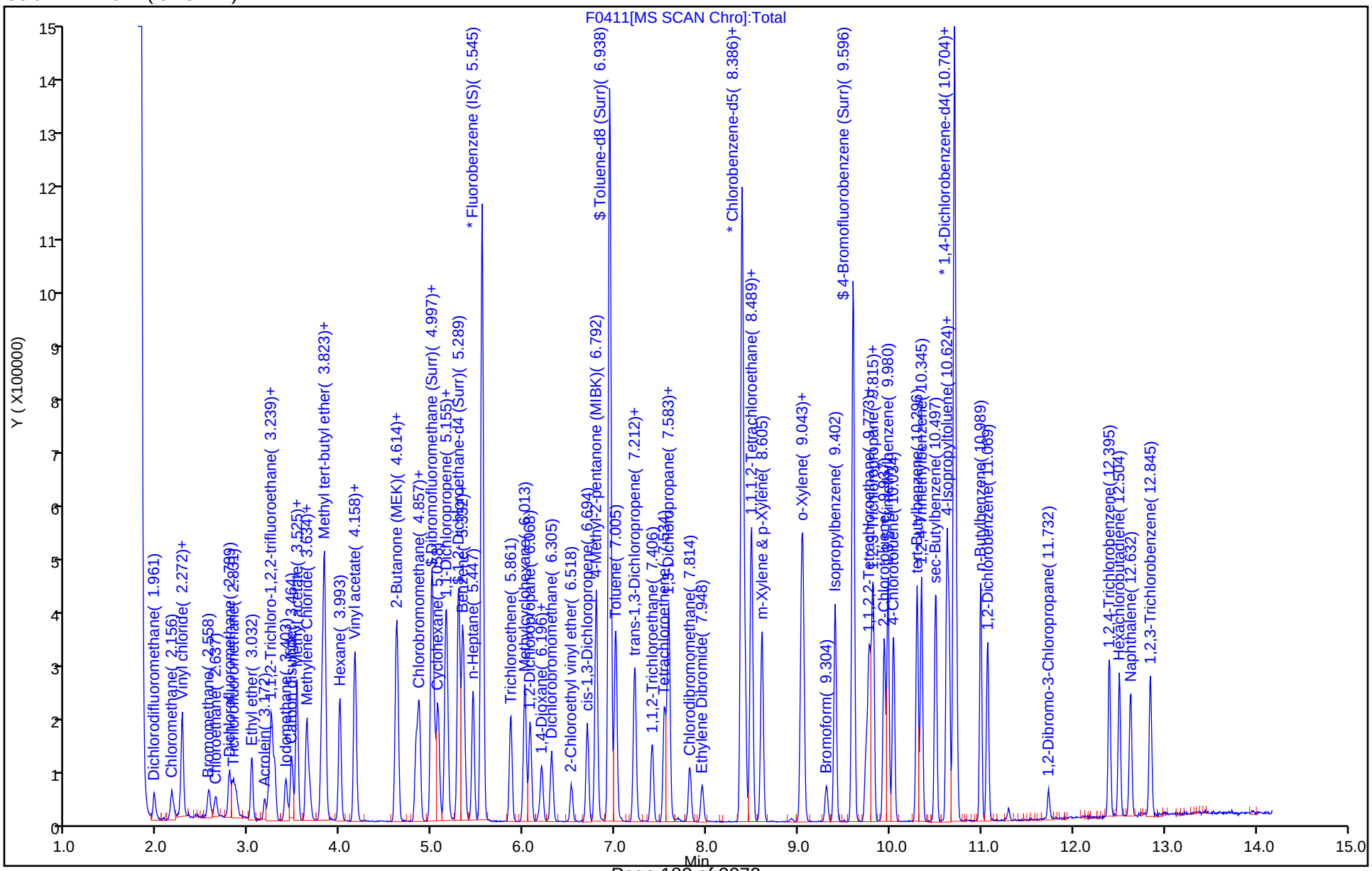
Report Date: 05-Feb-2021 09:49:22 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0411.D

Injection Date:	04-Feb-2021 13:48:30	Instrument ID:	HP5973F	Operator ID:	WD
Lims ID:	IC 3			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0412.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 04-Feb-2021 14:14:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 4
Misc. Info.: 480-0096467-007
Operator ID: WD Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 05-Feb-2021 09:49:27 Calib Date: 04-Feb-2021 19:06:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0423.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1680

First Level Reviewer: dahnw Date: 05-Feb-2021 09:08:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.545	5.551	-0.006	98	226861	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.380	8.386	-0.006	88	457655	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.704	10.704	0.000	96	405607	50.0	50.0	
$ 154 Dibromofluoromethane (Surr)	113	4.997	4.991	0.006	93	288116	50.0	50.8	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.289	5.283	0.006	97	178246	50.0	50.0	
$ 5 Toluene-d8 (Surr)	98	6.938	6.938	0.000	95	1080559	50.0	50.2	
$ 6 4-Bromofluorobenzene (Surr)	174	9.596	9.603	-0.007	88	323554	50.0	50.3	
10 Dichlorodifluoromethane	85	1.968	1.968	0.000	98	119425	20.0	19.7	
12 Chloromethane	50	2.156	2.156	0.000	99	155468	20.0	19.2	
13 Vinyl chloride	62	2.260	2.260	0.000	98	133771	20.0	19.0	
151 Butadiene	54	2.272	2.272	0.000	97	141928	20.0	19.8	
14 Bromomethane	94	2.564	2.564	0.000	92	84127	20.0	18.6	
15 Chloroethane	64	2.637	2.637	0.000	98	78648	20.0	19.3	
16 Dichlorofluoromethane	67	2.789	2.783	0.006	97	195850	20.0	19.4	
17 Trichlorofluoromethane	101	2.831	2.825	0.006	97	169205	20.0	19.8	
18 Ethyl ether	59	3.026	3.026	0.000	97	120237	20.0	18.6	
20 Acrolein	56	3.166	3.172	-0.006	97	64497	100.0	87.7	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.227	3.227	0.000	94	94500	20.0	18.6	
22 1,1-Dichloroethene	96	3.245	3.245	0.000	94	93264	20.0	17.2	
23 Acetone	43	3.282	3.282	0.000	97	229934	100.0	93.7	
25 Iodomethane	142	3.397	3.397	0.000	99	192027	20.0	18.4	
26 Carbon disulfide	76	3.464	3.464	0.000	99	336264	20.0	17.6	
27 Methyl acetate	43	3.513	3.513	0.000	99	214769	40.0	37.1	
28 3-Chloro-1-propene	41	3.525	3.525	0.000	86	232190	20.0	17.9	
30 Methylene Chloride	84	3.628	3.628	0.000	97	143202	20.0	18.5	
31 2-Methyl-2-propanol	59	3.665	3.659	0.006	97	141528	200.0	183.1	
32 Methyl tert-butyl ether	73	3.793	3.793	0.000	97	370223	20.0	18.1	
33 Acrylonitrile	53	3.823	3.817	0.006	99	481670	200.0	179.1	
34 trans-1,2-Dichloroethene	96	3.829	3.829	0.000	95	122512	20.0	18.3	
35 Hexane	57	3.993	3.993	0.000	95	166826	20.0	16.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	4.152	4.152	0.000	98	632950	40.0	36.7	
39 1,1-Dichloroethane	63	4.164	4.164	0.000	97	230593	20.0	18.0	
43 2-Butanone (MEK)	43	4.602	4.602	0.000	98	335796	100.0	91.1	
44 2,2-Dichloropropane	77	4.614	4.614	0.000	65	162523	20.0	18.8	
45 cis-1,2-Dichloroethene	96	4.614	4.620	-0.006	88	135856	20.0	17.9	
48 Chlorobromomethane	128	4.827	4.821	0.006	97	67589	20.0	18.7	
49 Tetrahydrofuran	42	4.851	4.845	0.006	90	91323	40.0	36.2	
50 Chloroform	83	4.857	4.863	-0.006	95	237932	20.0	17.9	
51 1,1,1-Trichloroethane	97	5.028	5.016	0.012	98	194662	20.0	17.6	
52 Cyclohexane	56	5.064	5.064	0.000	95	197558	20.0	17.7	
54 1,1-Dichloropropene	75	5.143	5.143	0.000	94	171386	20.0	18.0	
55 Carbon tetrachloride	117	5.155	5.155	0.000	91	163667	20.0	17.5	
53 Isobutyl alcohol	43	5.161	5.162	-0.001	90	160136	500.0	449.8	
57 Benzene	78	5.332	5.332	0.000	98	509505	20.0	17.8	
58 1,2-Dichloroethane	62	5.356	5.350	0.006	98	215162	20.0	18.5	
59 n-Heptane	43	5.447	5.447	0.000	92	192601	20.0	17.3	
62 Trichloroethene	95	5.855	5.855	0.000	96	128649	20.0	18.0	
64 Methylcyclohexane	83	6.013	6.013	0.000	93	190483	20.0	17.7	
65 1,2-Dichloropropane	63	6.074	6.068	0.006	89	128196	20.0	18.7	
66 1,4-Dioxane	88	6.171	6.165	0.006	28	27145	400.0	400.0	M
67 Dibromomethane	93	6.202	6.190	0.012	95	79433	20.0	18.5	
68 Dichlorobromomethane	83	6.299	6.305	-0.006	98	177597	20.0	18.0	
69 2-Chloroethyl vinyl ether	63	6.524	6.518	0.006	92	58838	20.0	17.3	
72 cis-1,3-Dichloropropene	75	6.694	6.695	-0.001	90	205855	20.0	18.0	
73 4-Methyl-2-pentanone (MIBK)	43	6.792	6.792	0.000	99	681306	100.0	91.0	
74 Toluene	92	7.005	7.005	0.000	98	322472	20.0	18.0	
77 trans-1,3-Dichloropropene	75	7.206	7.206	0.000	99	195829	20.0	18.0	
75 Ethyl methacrylate	69	7.218	7.218	0.000	91	144605	20.0	17.5	
79 1,1,2-Trichloroethane	83	7.400	7.400	0.000	95	84767	20.0	18.1	
81 Tetrachloroethene	166	7.540	7.540	0.000	93	126957	20.0	18.1	
82 1,3-Dichloropropane	76	7.571	7.571	0.000	97	186957	20.0	18.2	
80 2-Hexanone	43	7.583	7.583	0.000	98	464406	100.0	91.3	
83 Chlorodibromomethane	129	7.814	7.814	0.000	90	121938	20.0	18.5	
84 Ethylene Dibromide	107	7.942	7.948	-0.006	96	106061	20.0	18.6	
87 Chlorobenzene	112	8.410	8.416	-0.006	92	338765	20.0	18.0	
89 1,1,1,2-Tetrachloroethane	131	8.489	8.489	0.000	46	132330	20.0	18.4	
88 Ethylbenzene	91	8.483	8.489	-0.006	99	578487	20.0	17.7	
90 m-Xylene & p-Xylene	106	8.605	8.605	0.000	99	221393	20.0	17.6	
91 o-Xylene	106	9.037	9.031	0.006	98	220886	20.0	18.1	
92 Styrene	104	9.055	9.049	0.006	95	369926	20.0	18.0	
95 Bromoform	173	9.304	9.311	-0.007	94	73526	20.0	17.3	
94 Isopropylbenzene	105	9.402	9.402	0.000	96	567633	20.0	17.9	
97 1,1,2,2-Tetrachloroethane	83	9.736	9.736	0.000	96	129457	20.0	18.2	
101 Bromobenzene	156	9.773	9.767	0.006	94	146379	20.0	18.3	
98 trans-1,4-Dichloro-2-butene	53	9.785	9.785	0.000	73	46490	20.0	17.8	
100 1,2,3-Trichloropropane	110	9.791	9.791	0.000	85	42378	20.0	18.6	
99 N-Propylbenzene	91	9.815	9.815	0.000	98	666481	20.0	17.9	
103 2-Chlorotoluene	126	9.937	9.937	0.000	95	134420	20.0	18.3	
102 1,3,5-Trimethylbenzene	105	9.974	9.980	-0.006	94	498009	20.0	18.3	
105 4-Chlorotoluene	126	10.040	10.041	-0.001	98	134775	20.0	18.0	
106 tert-Butylbenzene	134	10.296	10.296	0.000	94	104126	20.0	18.1	
107 1,2,4-Trimethylbenzene	105	10.345	10.345	0.000	96	494795	20.0	18.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.497	10.497	0.000	95	593895	20.0	18.0	
110 4-Isopropyltoluene	119	10.618	10.619	0.000	97	520250	20.0	18.1	
111 1,3-Dichlorobenzene	146	10.643	10.643	0.000	97	278730	20.0	18.3	
113 1,4-Dichlorobenzene	146	10.722	10.722	0.000	94	273762	20.0	17.7	
115 n-Butylbenzene	91	10.989	10.990	-0.001	98	453112	20.0	18.1	
116 1,2-Dichlorobenzene	146	11.069	11.069	0.000	96	267191	20.0	18.4	
117 1,2-Dibromo-3-Chloropropane	75	11.732	11.732	0.000	82	26079	20.0	17.7	
119 1,2,4-Trichlorobenzene	180	12.395	12.395	0.000	94	187740	20.0	18.0	
120 Hexachlorobutadiene	225	12.504	12.504	0.000	96	100469	20.0	17.8	
121 Naphthalene	128	12.626	12.626	0.000	97	404432	20.0	18.0	
122 1,2,3-Trichlorobenzene	180	12.845	12.845	0.000	95	177727	20.0	18.0	
S 123 Total BTEX	1				0			89.3	
S 124 Xylenes, Total	1				0			35.7	
S 125 1,2-Dichloroethene, Total	1				0			36.2	
S 126 1,3-Dichloropropene, Total	1				0			36.1	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00202	Amount Added: 10.00	Units: uL	
GAS CORP mix_00440	Amount Added: 10.00	Units: uL	
F 8260 IS/SS_00117	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 05-Feb-2021 09:49:30 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0412.D

Injection Date: 04-Feb-2021 14:14:30 Instrument ID: HP5973F Operator ID: WD

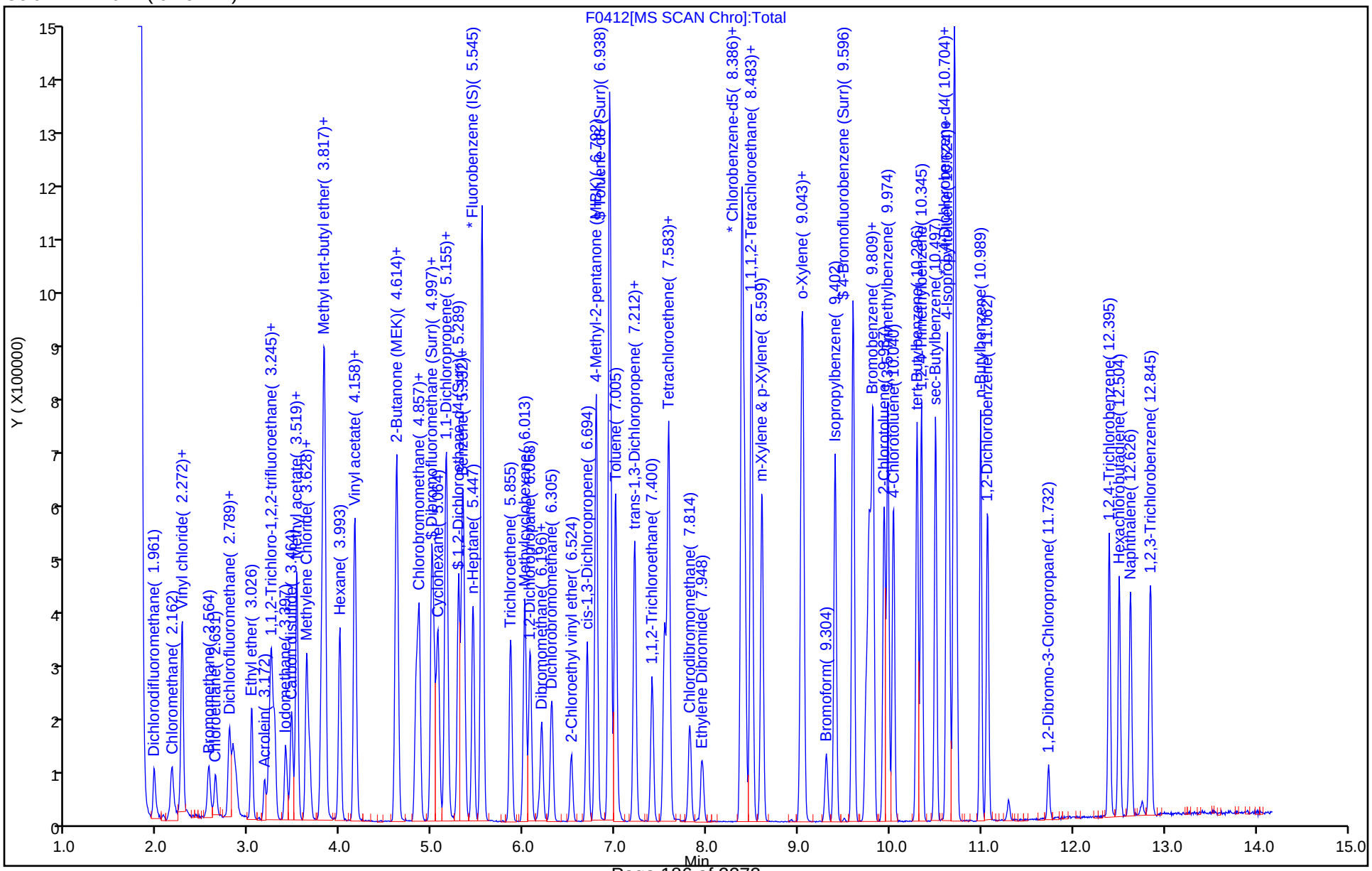
Lims ID: IC 4 Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 7

Method: F-8260 SOIL Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

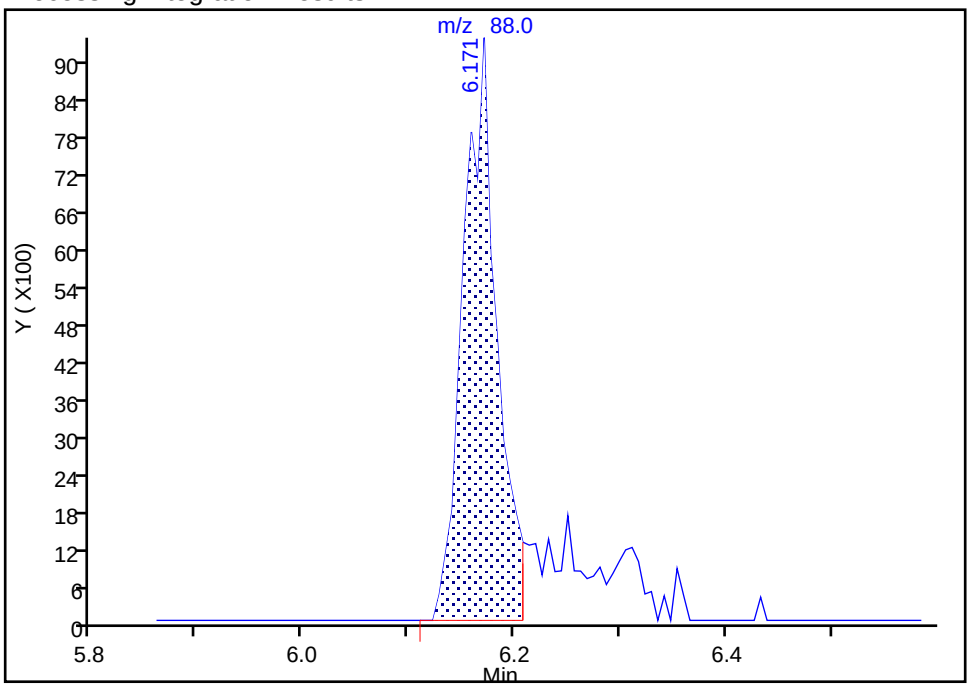
Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0412.D
Injection Date: 04-Feb-2021 14:14:30 Instrument ID: HP5973F
Lims ID: IC 4
Client ID:
Operator ID: WD ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

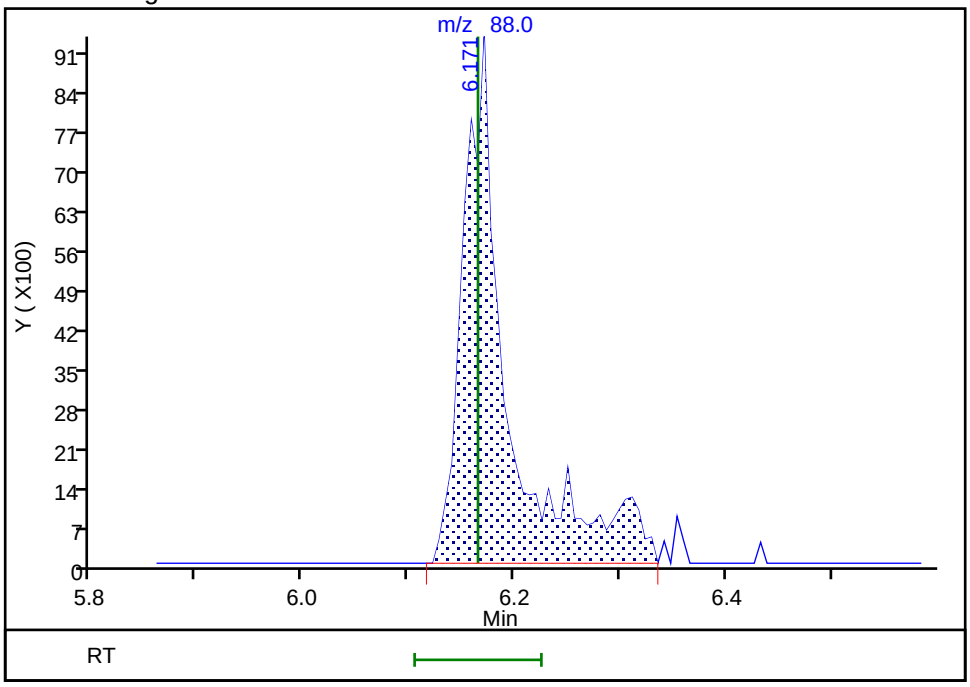
Processing Integration Results

RT: 6.17
Area: 20594
Amount: 339.7198
Amount Units: ug/kg



Manual Integration Results

RT: 6.17
Area: 27145
Amount: 400.0349
Amount Units: ug/kg



Reviewer: dahnw, 05-Feb-2021 09:07:57
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0413.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 04-Feb-2021 14:41:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS 5
Misc. Info.: 480-0096467-008
Operator ID: WD Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 05-Feb-2021 09:49:35 Calib Date: 04-Feb-2021 19:06:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0423.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1680

First Level Reviewer: dahnw Date: 05-Feb-2021 09:01:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.545	5.545	0.000	98	238157	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.386	8.386	0.000	88	480230	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.704	10.704	0.000	95	435464	50.0	50.0	
$ 154 Dibromofluoromethane (Surr)	113	4.991	4.991	0.000	92	300200	50.0	50.4	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.283	5.283	0.000	98	186775	50.0	49.9	
$ 5 Toluene-d8 (Surr)	98	6.938	6.938	0.000	94	1141839	50.0	50.5	
$ 6 4-Bromofluorobenzene (Surr)	174	9.603	9.603	0.000	89	338698	50.0	50.1	
10 Dichlorodifluoromethane	85	1.968	1.968	0.000	99	289259	50.0	45.4	
12 Chloromethane	50	2.156	2.156	0.000	99	395775	50.0	46.6	
13 Vinyl chloride	62	2.260	2.260	0.000	98	342209	50.0	46.3	
151 Butadiene	54	2.272	2.272	0.000	95	344428	50.0	45.7	
14 Bromomethane	94	2.564	2.564	0.000	91	220775	50.0	46.4	
15 Chloroethane	64	2.637	2.637	0.000	99	200715	50.0	47.0	
16 Dichlorofluoromethane	67	2.783	2.783	0.000	97	497144	50.0	46.8	
17 Trichlorofluoromethane	101	2.825	2.825	0.000	97	413880	50.0	46.1	
18 Ethyl ether	59	3.026	3.026	0.000	94	344087	50.0	50.8	
20 Acrolein	56	3.172	3.172	0.000	99	193261	250.0	250.4	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.227	3.227	0.000	94	266074	50.0	50.0	
22 1,1-Dichloroethene	96	3.245	3.245	0.000	94	287510	50.0	50.5	
23 Acetone	43	3.282	3.282	0.000	98	646787	250.0	251.2	
25 Iodomethane	142	3.397	3.397	0.000	100	559627	50.0	51.1	
26 Carbon disulfide	76	3.464	3.464	0.000	100	1003719	50.0	50.1	
27 Methyl acetate	43	3.513	3.513	0.000	99	627666	100.0	103.4	
28 3-Chloro-1-propene	41	3.525	3.525	0.000	86	703610	50.0	51.7	
30 Methylene Chloride	84	3.628	3.628	0.000	98	384737	50.0	50.0	
31 2-Methyl-2-propanol	59	3.659	3.659	0.000	98	435999	500.0	537.4	
32 Methyl tert-butyl ether	73	3.793	3.793	0.000	98	1073681	50.0	50.0	
33 Acrylonitrile	53	3.817	3.817	0.000	99	1476322	500.0	522.8	
34 trans-1,2-Dichloroethene	96	3.829	3.829	0.000	95	371718	50.0	52.9	
35 Hexane	57	3.993	3.993	0.000	95	514401	50.0	49.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	4.152	4.152	0.000	97	1903033	100.0	105.0	
39 1,1-Dichloroethane	63	4.164	4.164	0.000	97	696468	50.0	51.8	
43 2-Butanone (MEK)	43	4.602	4.602	0.000	99	1002372	250.0	259.1	
44 2,2-Dichloropropane	77	4.614	4.614	0.000	92	455505	50.0	50.1	
45 cis-1,2-Dichloroethene	96	4.620	4.620	0.000	85	413134	50.0	51.8	
48 Chlorobromomethane	128	4.821	4.821	0.000	96	196679	50.0	51.9	
49 Tetrahydrofuran	42	4.845	4.845	0.000	90	267295	100.0	100.9	
50 Chloroform	83	4.863	4.863	0.000	95	709380	50.0	51.0	
51 1,1,1-Trichloroethane	97	5.016	5.016	0.000	98	587344	50.0	50.6	
52 Cyclohexane	56	5.064	5.064	0.000	95	597159	50.0	51.1	
54 1,1-Dichloropropene	75	5.143	5.143	0.000	95	517548	50.0	51.9	
55 Carbon tetrachloride	117	5.155	5.155	0.000	91	500635	50.0	51.0	
53 Isobutyl alcohol	43	5.162	5.162	0.000	93	535643	1250.0	1433.3	
57 Benzene	78	5.332	5.332	0.000	98	1537401	50.0	51.3	
58 1,2-Dichloroethane	62	5.350	5.350	0.000	98	609623	50.0	50.0	
59 n-Heptane	43	5.447	5.447	0.000	96	606668	50.0	52.0	
62 Trichloroethene	95	5.855	5.855	0.000	96	381413	50.0	50.8	
64 Methylcyclohexane	83	6.013	6.013	0.000	94	576865	50.0	51.2	
65 1,2-Dichloropropane	63	6.068	6.068	0.000	91	373903	50.0	51.9	
66 1,4-Dioxane	88	6.165	6.165	0.000	94	76894	1000.0	1079.9	
67 Dibromomethane	93	6.190	6.190	0.000	94	227188	50.0	50.5	
68 Dichlorobromomethane	83	6.305	6.305	0.000	98	531040	50.0	51.2	
69 2-Chloroethyl vinyl ether	63	6.518	6.518	0.000	94	194535	50.0	54.5	
72 cis-1,3-Dichloropropene	75	6.695	6.695	0.000	92	642418	50.0	53.6	
73 4-Methyl-2-pentanone (MIBK)	43	6.792	6.792	0.000	99	2076211	250.0	264.4	
74 Toluene	92	7.005	7.005	0.000	98	958631	50.0	51.0	
77 trans-1,3-Dichloropropene	75	7.206	7.206	0.000	98	593331	50.0	52.1	
75 Ethyl methacrylate	69	7.218	7.218	0.000	93	456871	50.0	52.8	
79 1,1,2-Trichloroethane	83	7.400	7.400	0.000	94	255098	50.0	52.0	
81 Tetrachloroethene	166	7.540	7.540	0.000	95	382452	50.0	51.8	
82 1,3-Dichloropropane	76	7.571	7.571	0.000	97	565585	50.0	52.6	
80 2-Hexanone	43	7.583	7.583	0.000	97	1413576	250.0	265.0	
83 Chlorodibromomethane	129	7.814	7.814	0.000	90	369046	50.0	53.4	
84 Ethylene Dibromide	107	7.948	7.948	0.000	98	313181	50.0	52.3	
87 Chlorobenzene	112	8.416	8.416	0.000	93	1031505	50.0	52.2	
89 1,1,1,2-Tetrachloroethane	131	8.489	8.489	0.000	45	402837	50.0	53.2	
88 Ethylbenzene	91	8.489	8.489	0.000	99	1774212	50.0	51.8	
90 m-Xylene & p-Xylene	106	8.605	8.605	0.000	99	677455	50.0	51.5	
91 o-Xylene	106	9.031	9.031	0.000	98	677295	50.0	52.8	
92 Styrene	104	9.049	9.049	0.000	95	1157791	50.0	53.6	
95 Bromoform	173	9.311	9.311	0.000	96	234211	50.0	52.4	
94 Isopropylbenzene	105	9.402	9.402	0.000	96	1772947	50.0	51.9	
97 1,1,2,2-Tetrachloroethane	83	9.736	9.736	0.000	95	404651	50.0	53.1	
101 Bromobenzene	156	9.767	9.767	0.000	96	438743	50.0	51.1	
98 trans-1,4-Dichloro-2-butene	53	9.785	9.785	0.000	71	147177	50.0	52.6	
100 1,2,3-Trichloropropane	110	9.791	9.791	0.000	84	124466	50.0	50.8	
99 N-Propylbenzene	91	9.815	9.815	0.000	98	2073043	50.0	51.8	
103 2-Chlorotoluene	126	9.937	9.937	0.000	96	412828	50.0	52.3	
102 1,3,5-Trimethylbenzene	105	9.980	9.980	0.000	93	1526699	50.0	52.2	
105 4-Chlorotoluene	126	10.041	10.041	0.000	99	407785	50.0	50.7	
106 tert-Butylbenzene	134	10.296	10.296	0.000	92	328275	50.0	53.3	
107 1,2,4-Trimethylbenzene	105	10.345	10.345	0.000	96	1558017	50.0	53.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.497	10.497	0.000	95	1878107	50.0	53.0	
110 4-Isopropyltoluene	119	10.619	10.619	0.000	97	1625078	50.0	52.8	
111 1,3-Dichlorobenzene	146	10.643	10.643	0.000	97	832011	50.0	50.8	
113 1,4-Dichlorobenzene	146	10.722	10.722	0.000	93	829504	50.0	50.0	
115 n-Butylbenzene	91	10.990	10.990	0.000	98	1427965	50.0	53.1	
116 1,2-Dichlorobenzene	146	11.069	11.069	0.000	97	812416	50.0	52.1	
117 1,2-Dibromo-3-Chloropropane	75	11.732	11.732	0.000	78	81052	50.0	51.2	
119 1,2,4-Trichlorobenzene	180	12.395	12.395	0.000	94	569496	50.0	50.8	
120 Hexachlorobutadiene	225	12.504	12.504	0.000	96	323429	50.0	53.4	
121 Naphthalene	128	12.626	12.626	0.000	98	1238152	50.0	51.2	
122 1,2,3-Trichlorobenzene	180	12.845	12.845	0.000	95	525366	50.0	49.6	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00202	Amount Added: 25.00	Units: uL	
GAS CORP mix_00440	Amount Added: 25.00	Units: uL	
F 8260 IS/SS_00117	Amount Added: 1.00	Units: uL	Run Reagent

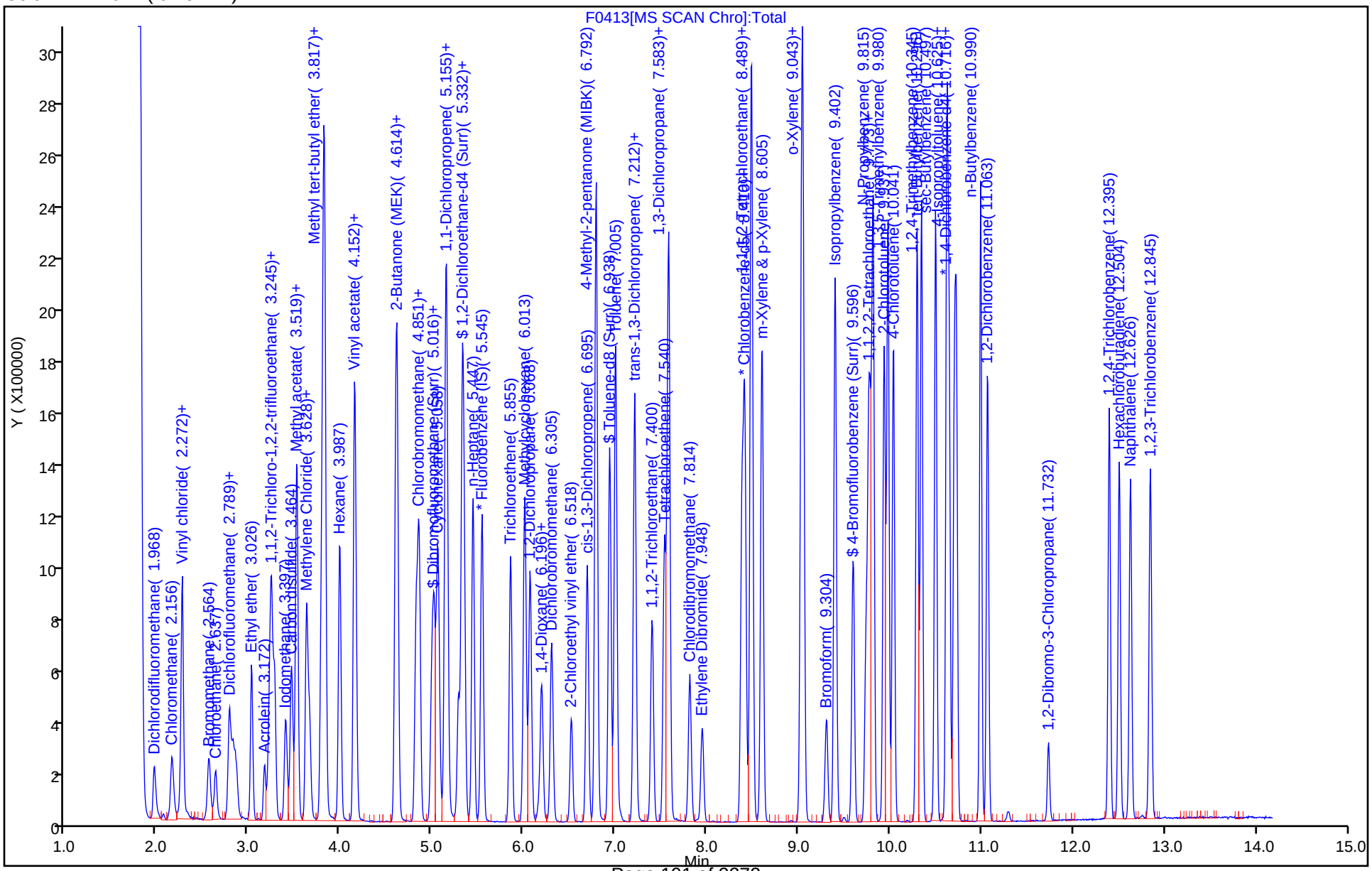
Report Date: 05-Feb-2021 09:49:37 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0413.D

Injection Date:	04-Feb-2021 14:41:30	Instrument ID:	HP5973F	Operator ID:	WD
Lims ID:	ICIS 5			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0414.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 04-Feb-2021 15:07:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 6
Misc. Info.: 480-0096467-009
Operator ID: WD Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 05-Feb-2021 09:49:42 Calib Date: 04-Feb-2021 19:06:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0423.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1680

First Level Reviewer: dahnw Date: 05-Feb-2021 09:08:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.545	5.545	0.000	98	242198	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.386	8.386	0.000	87	494905	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.704	10.704	0.000	95	441654	50.0	50.0	
$ 154 Dibromofluoromethane (Surr)	113	4.997	4.991	0.006	93	292801	50.0	48.4	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.289	5.283	0.006	99	185913	50.0	48.8	
$ 5 Toluene-d8 (Surr)	98	6.938	6.938	0.000	94	1138928	50.0	48.9	
$ 6 4-Bromofluorobenzene (Surr)	174	9.596	9.603	-0.007	90	351944	50.0	50.6	
10 Dichlorodifluoromethane	85	1.968	1.968	0.000	99	673608	100.0	104.0	
12 Chloromethane	50	2.156	2.156	0.000	99	797704	100.0	92.3	
13 Vinyl chloride	62	2.260	2.260	0.000	98	708644	100.0	94.3	
151 Butadiene	54	2.272	2.272	0.000	95	728849	100.0	95.1	
14 Bromomethane	94	2.558	2.564	-0.006	92	433732	100.0	89.6	
15 Chloroethane	64	2.631	2.637	-0.006	99	392936	100.0	90.4	
16 Dichlorofluoromethane	67	2.783	2.783	0.000	97	985376	100.0	91.3	
17 Trichlorofluoromethane	101	2.825	2.825	0.000	98	903888	100.0	99.0	
18 Ethyl ether	59	3.032	3.026	0.006	95	683738	100.0	99.3	
20 Acrolein	56	3.172	3.172	0.000	99	385229	500.0	490.8	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.221	3.227	-0.006	93	578693	100.0	106.9	
22 1,1-Dichloroethene	96	3.251	3.245	0.006	94	580954	100.0	100.3	
23 Acetone	43	3.282	3.282	0.000	98	1253480	500.0	478.6	
25 Iodomethane	142	3.403	3.397	0.006	100	1108929	100.0	99.5	
26 Carbon disulfide	76	3.464	3.464	0.000	100	2102249	100.0	103.2	
27 Methyl acetate	43	3.513	3.513	0.000	98	1250849	200.0	202.6	
28 3-Chloro-1-propene	41	3.525	3.525	0.000	88	1384825	100.0	100.1	
30 Methylene Chloride	84	3.628	3.628	0.000	98	751463	100.0	97.6	
31 2-Methyl-2-propanol	59	3.659	3.659	0.000	99	862553	1000.0	1045.4	
32 Methyl tert-butyl ether	73	3.799	3.793	0.006	97	2234779	100.0	102.3	
33 Acrylonitrile	53	3.817	3.817	0.000	99	3016791	1000.0	1050.6	
34 trans-1,2-Dichloroethene	96	3.829	3.829	0.000	94	727794	100.0	101.8	
35 Hexane	57	3.993	3.993	0.000	95	1135891	100.0	106.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	4.152	4.152	0.000	97	3844737	200.0	208.5	
39 1,1-Dichloroethane	63	4.164	4.164	0.000	97	1387492	100.0	101.5	
43 2-Butanone (MEK)	43	4.602	4.602	0.000	99	2026736	500.0	515.1	
44 2,2-Dichloropropane	77	4.614	4.614	0.000	94	895411	100.0	96.8	
45 cis-1,2-Dichloroethene	96	4.620	4.620	0.000	85	797656	100.0	98.3	
48 Chlorobromomethane	128	4.827	4.821	0.006	97	393677	100.0	102.2	
49 Tetrahydrofuran	42	4.845	4.845	0.000	91	545773	200.0	202.7	
50 Chloroform	83	4.863	4.863	0.000	95	1386156	100.0	97.9	
51 1,1,1-Trichloroethane	97	5.022	5.016	0.006	98	1165442	100.0	98.8	
52 Cyclohexane	56	5.064	5.064	0.000	94	1283932	100.0	108.0	
54 1,1-Dichloropropene	75	5.143	5.143	0.000	92	1056864	100.0	104.1	
55 Carbon tetrachloride	117	5.155	5.155	0.000	91	1023635	100.0	102.5	
53 Isobutyl alcohol	43	5.162	5.162	0.000	94	1138992	2500.0	2996.8	
57 Benzene	78	5.332	5.332	0.000	97	3086682	100.0	101.3	
58 1,2-Dichloroethane	62	5.350	5.350	0.000	97	1200752	100.0	96.9	
59 n-Heptane	43	5.447	5.447	0.000	95	1303487	100.0	109.9	
62 Trichloroethene	95	5.855	5.855	0.000	96	758654	100.0	99.4	
64 Methylcyclohexane	83	6.013	6.013	0.000	95	1267807	100.0	110.6	
65 1,2-Dichloropropane	63	6.068	6.068	0.000	91	753537	100.0	102.8	
66 1,4-Dioxane	88	6.165	6.165	0.000	94	158430	2000.0	2159.0	M
67 Dibromomethane	93	6.196	6.190	0.006	96	458523	100.0	100.2	
68 Dichlorobromomethane	83	6.305	6.305	0.000	98	1068953	100.0	101.3	
69 2-Chloroethyl vinyl ether	63	6.518	6.518	0.000	94	406877	100.0	112.1	
72 cis-1,3-Dichloropropene	75	6.695	6.695	0.000	92	1314000	100.0	107.8	
73 4-Methyl-2-pentanone (MIBK)	43	6.792	6.792	0.000	99	4338663	500.0	536.1	
74 Toluene	92	7.005	7.005	0.000	98	1937262	100.0	100.0	
77 trans-1,3-Dichloropropene	75	7.206	7.206	0.000	98	1229753	100.0	104.7	
75 Ethyl methacrylate	69	7.218	7.218	0.000	96	974730	100.0	109.3	
79 1,1,2-Trichloroethane	83	7.400	7.400	0.000	93	526430	100.0	104.1	
81 Tetrachloroethene	166	7.540	7.540	0.000	97	774451	100.0	101.9	
82 1,3-Dichloropropane	76	7.571	7.571	0.000	97	1145622	100.0	103.4	
80 2-Hexanone	43	7.583	7.583	0.000	99	2996615	500.0	545.0	
83 Chlorodibromomethane	129	7.814	7.814	0.000	90	752249	100.0	105.6	
84 Ethylene Dibromide	107	7.948	7.948	0.000	99	632263	100.0	102.5	
87 Chlorobenzene	112	8.416	8.416	0.000	93	2054517	100.0	100.8	
89 1,1,1,2-Tetrachloroethane	131	8.489	8.489	0.000	46	786968	100.0	100.9	
88 Ethylbenzene	91	8.489	8.489	0.000	99	3592343	100.0	101.8	
90 m-Xylene & p-Xylene	106	8.599	8.605	-0.006	99	1352542	100.0	99.7	
91 o-Xylene	106	9.037	9.031	0.006	97	1339770	100.0	101.4	
92 Styrene	104	9.055	9.049	0.006	95	2324231	100.0	104.3	
95 Bromoform	173	9.304	9.311	-0.007	96	497992	100.0	108.2	
94 Isopropylbenzene	105	9.402	9.402	0.000	96	3565914	100.0	103.0	
97 1,1,2,2-Tetrachloroethane	83	9.736	9.736	0.000	95	798724	100.0	103.3	
101 Bromobenzene	156	9.767	9.767	0.000	94	882321	100.0	101.3	
98 trans-1,4-Dichloro-2-butene	53	9.785	9.785	0.000	76	295173	100.0	103.9	
100 1,2,3-Trichloropropane	110	9.797	9.791	0.006	83	248792	100.0	100.0	
99 N-Propylbenzene	91	9.815	9.815	0.000	98	4173278	100.0	102.8	
103 2-Chlorotoluene	126	9.937	9.937	0.000	96	802560	100.0	100.2	
102 1,3,5-Trimethylbenzene	105	9.980	9.980	0.000	94	3047939	100.0	102.7	
105 4-Chlorotoluene	126	10.041	10.041	0.000	98	811989	100.0	99.6	
106 tert-Butylbenzene	134	10.296	10.296	0.000	92	644067	100.0	103.0	
107 1,2,4-Trimethylbenzene	105	10.345	10.345	0.000	95	3072125	100.0	103.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.497	10.497	0.000	95	3785396	100.0	105.4	
110 4-Isopropyltoluene	119	10.625	10.619	0.007	97	3326768	100.0	106.6	
111 1,3-Dichlorobenzene	146	10.649	10.643	0.006	98	1670701	100.0	100.5	
113 1,4-Dichlorobenzene	146	10.728	10.722	0.006	94	1681386	100.0	99.9	
115 n-Butylbenzene	91	10.990	10.990	0.000	98	2889840	100.0	105.9	
116 1,2-Dichlorobenzene	146	11.069	11.069	0.000	97	1590030	100.0	100.6	
117 1,2-Dibromo-3-Chloropropane	75	11.732	11.732	0.000	83	164057	100.0	102.1	
119 1,2,4-Trichlorobenzene	180	12.395	12.395	0.000	94	1158156	100.0	101.8	
120 Hexachlorobutadiene	225	12.504	12.504	0.000	97	645982	100.0	105.1	
121 Naphthalene	128	12.626	12.626	0.000	97	2666866	100.0	108.7	
122 1,2,3-Trichlorobenzene	180	12.845	12.845	0.000	96	1120157	100.0	104.3	
S 123 Total BTEX	1				0			504.2	
S 124 Xylenes, Total	1				0			201.1	
S 125 1,2-Dichloroethene, Total	1				0			200.1	
S 126 1,3-Dichloropropene, Total	1				0			212.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00202	Amount Added: 50.00	Units: uL	
GAS CORP mix_00440	Amount Added: 50.00	Units: uL	
F 8260 IS/SS_00117	Amount Added: 1.00	Units: uL	Run Reagent

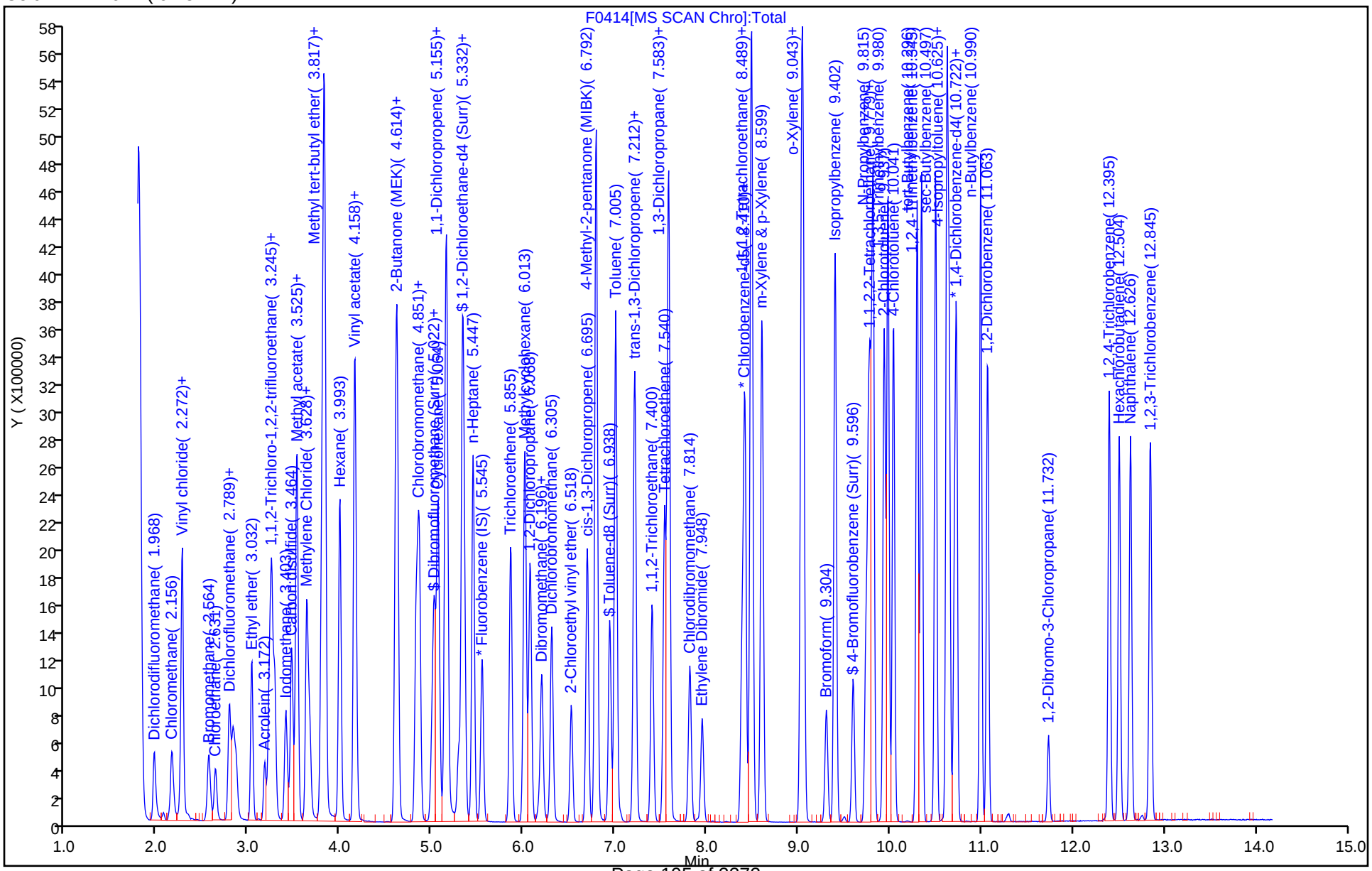
Report Date: 05-Feb-2021 09:49:45 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0414.D

Injection Date:	04-Feb-2021 15:07:30	Instrument ID:	HP5973F	Operator ID:	WD
Lims ID:	IC 6			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

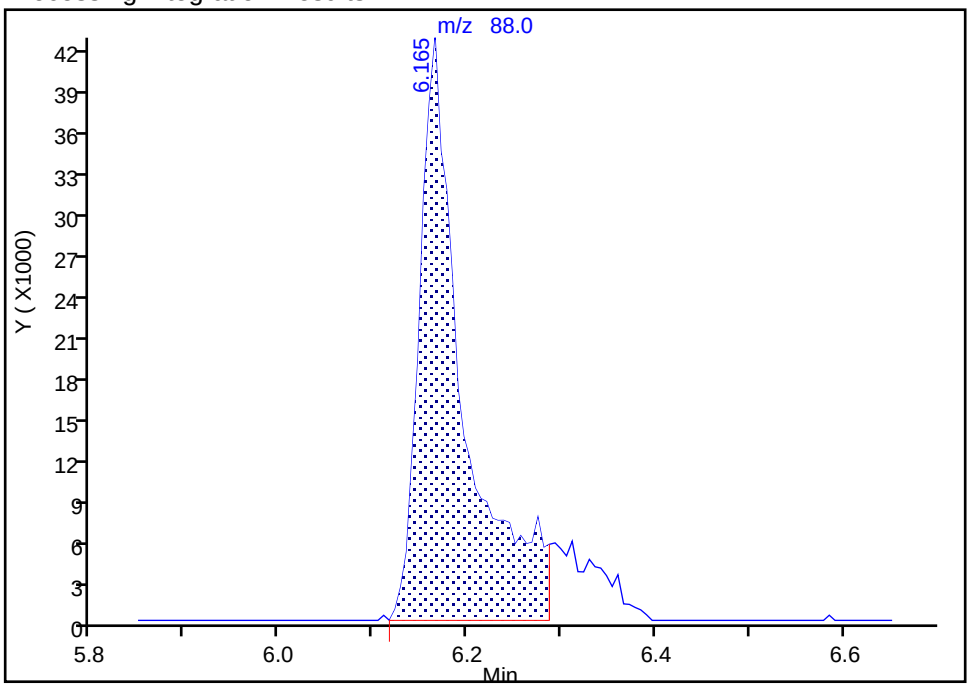
Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0414.D
Injection Date: 04-Feb-2021 15:07:30 Instrument ID: HP5973F
Lims ID: IC 6
Client ID:
Operator ID: WD ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

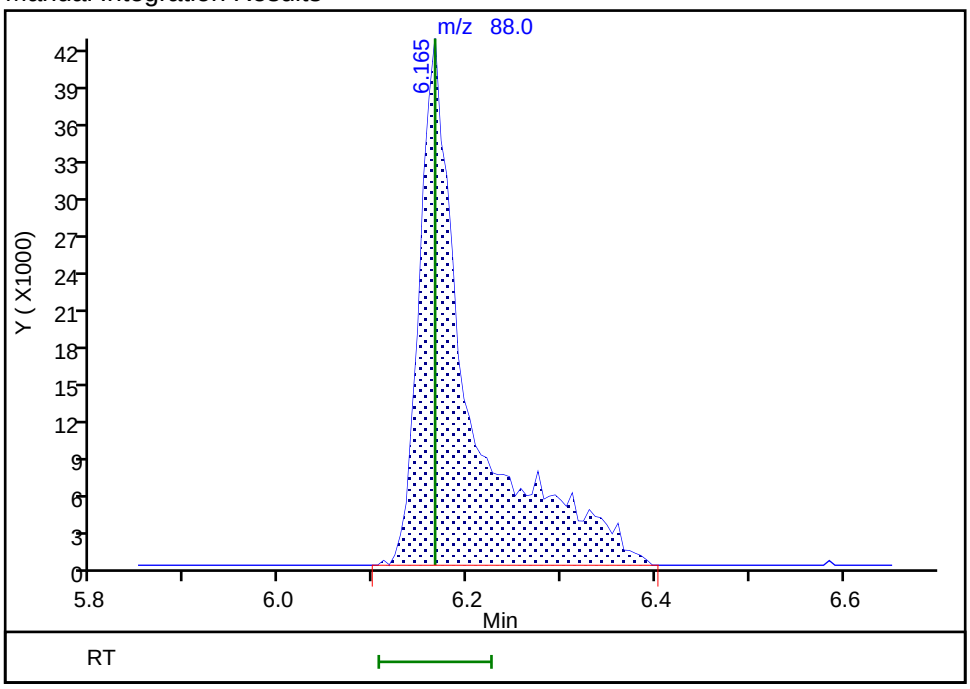
Processing Integration Results

RT: 6.17
Area: 138611
Amount: 1788.5728
Amount Units: ug/kg



Manual Integration Results

RT: 6.17
Area: 158430
Amount: 2159.0459
Amount Units: ug/kg



Reviewer: dahnw, 05-Feb-2021 09:08:47
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0415.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 04-Feb-2021 15:34:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 7
Misc. Info.: 480-0096467-010
Operator ID: WD Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 05-Feb-2021 09:49:50 Calib Date: 04-Feb-2021 19:06:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0423.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1680

First Level Reviewer: dahnw Date: 05-Feb-2021 09:09:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.545	5.545	0.000	98	246880	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.386	8.386	0.000	88	507986	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.704	10.704	0.000	95	460051	50.0	50.0	
$ 154 Dibromofluoromethane (Surr)	113	4.997	4.991	0.006	93	304916	50.0	49.4	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.289	5.283	0.006	99	193658	50.0	49.9	
$ 5 Toluene-d8 (Surr)	98	6.938	6.938	0.000	94	1195117	50.0	50.0	
$ 6 4-Bromofluorobenzene (Surr)	174	9.596	9.603	-0.007	89	358908	50.0	50.2	
10 Dichlorodifluoromethane	85	1.962	1.968	-0.006	99	1410528	200.0	213.6	
12 Chloromethane	50	2.156	2.156	0.000	99	1685321	200.0	191.3	
13 Vinyl chloride	62	2.260	2.260	0.000	98	1494995	200.0	195.1	
151 Butadiene	54	2.272	2.272	0.000	95	1501509	200.0	192.3	
14 Bromomethane	94	2.558	2.564	-0.006	92	926982	200.0	187.9	
15 Chloroethane	64	2.637	2.637	0.000	99	823453	200.0	185.9	
16 Dichlorofluoromethane	67	2.783	2.783	0.000	97	2083375	200.0	189.3	
17 Trichlorofluoromethane	101	2.825	2.825	0.000	98	1868546	200.0	200.8	
18 Ethyl ether	59	3.026	3.026	0.000	95	1454315	200.0	207.2	
20 Acrolein	56	3.172	3.172	0.000	100	839097	1000.0	1048.7	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.227	3.227	0.000	93	1153091	200.0	208.9	
22 1,1-Dichloroethene	96	3.251	3.245	0.006	94	1206324	200.0	204.4	
23 Acetone	43	3.282	3.282	0.000	98	2661125	1000.0	996.9	
25 Iodomethane	142	3.403	3.397	0.006	99	2377542	200.0	209.3	
26 Carbon disulfide	76	3.464	3.464	0.000	100	4481098	200.0	215.9	
27 Methyl acetate	43	3.513	3.513	0.000	98	2801869	400.0	445.3	
28 3-Chloro-1-propene	41	3.525	3.525	0.000	88	2951778	200.0	209.3	
30 Methylene Chloride	84	3.628	3.628	0.000	98	1581765	200.0	203.4	
31 2-Methyl-2-propanol	59	3.659	3.659	0.000	99	1855305	2000.0	2205.9	
32 Methyl tert-butyl ether	73	3.793	3.793	0.000	96	4811202	200.0	216.0	
33 Acrylonitrile	53	3.817	3.817	0.000	99	6736494	2000.0	2301.5	
34 trans-1,2-Dichloroethene	96	3.829	3.829	0.000	95	1539035	200.0	211.2	
35 Hexane	57	3.993	3.993	0.000	95	2298156	200.0	211.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	4.152	4.152	0.000	97	8376569	400.0	445.7	
39 1,1-Dichloroethane	63	4.164	4.164	0.000	97	2906380	200.0	208.5	
43 2-Butanone (MEK)	43	4.602	4.602	0.000	99	4682318	1000.0	1167.5	
44 2,2-Dichloropropane	77	4.614	4.614	0.000	91	1760463	200.0	186.8	
45 cis-1,2-Dichloroethene	96	4.620	4.620	0.000	85	1710707	200.0	206.8	
48 Chlorobromomethane	128	4.827	4.821	0.006	97	850398	200.0	216.6	
49 Tetrahydrofuran	42	4.845	4.845	0.000	89	1212956	400.0	441.9	
50 Chloroform	83	4.857	4.863	-0.006	94	2949163	200.0	204.4	
51 1,1,1-Trichloroethane	97	5.022	5.016	0.006	98	2408552	200.0	200.2	
52 Cyclohexane	56	5.064	5.064	0.000	94	2667147	200.0	220.0	
54 1,1-Dichloropropene	75	5.143	5.143	0.000	97	2190719	200.0	211.8	
55 Carbon tetrachloride	117	5.155	5.155	0.000	96	2114234	200.0	207.6	
53 Isobutyl alcohol	43	5.162	5.162	0.000	94	2651594	5000.0	6844.4	
57 Benzene	78	5.332	5.332	0.000	97	6736156	200.0	216.9	
58 1,2-Dichloroethane	62	5.350	5.350	0.000	97	2552003	200.0	202.0	
59 n-Heptane	43	5.447	5.447	0.000	95	2741625	200.0	226.8	
62 Trichloroethene	95	5.855	5.855	0.000	96	1603283	200.0	206.2	
64 Methylcyclohexane	83	6.013	6.013	0.000	95	2605051	200.0	223.0	
65 1,2-Dichloropropane	63	6.068	6.068	0.000	92	1615042	200.0	216.1	
66 1,4-Dioxane	88	6.165	6.165	0.000	97	335992	4000.0	4460.9	
67 Dibromomethane	93	6.196	6.190	0.006	96	997194	200.0	213.7	
68 Dichlorobromomethane	83	6.305	6.305	0.000	98	2328435	200.0	216.5	
69 2-Chloroethyl vinyl ether	63	6.518	6.518	0.000	94	924153	200.0	249.9	
72 cis-1,3-Dichloropropene	75	6.695	6.695	0.000	92	2844708	200.0	228.9	
73 4-Methyl-2-pentanone (MIBK)	43	6.792	6.792	0.000	99	9895836	1000.0	1191.2	
74 Toluene	92	7.005	7.005	0.000	98	4143261	200.0	208.3	
77 trans-1,3-Dichloropropene	75	7.206	7.206	0.000	97	2694029	200.0	223.4	
75 Ethyl methacrylate	69	7.218	7.218	0.000	91	2181589	200.0	238.3	
79 1,1,2-Trichloroethane	83	7.400	7.400	0.000	93	1143821	200.0	220.3	
81 Tetrachloroethene	166	7.540	7.540	0.000	96	1621759	200.0	207.8	
82 1,3-Dichloropropane	76	7.571	7.571	0.000	96	2502916	200.0	220.1	
80 2-Hexanone	43	7.589	7.583	0.006	99	6846283	1000.0	1213.1	
83 Chlorodibromomethane	129	7.814	7.814	0.000	90	1656831	200.0	226.6	
84 Ethylene Dibromide	107	7.948	7.948	0.000	99	1411996	200.0	223.0	
87 Chlorobenzene	112	8.416	8.416	0.000	93	4451962	200.0	212.9	
89 1,1,1,2-Tetrachloroethane	131	8.489	8.489	0.000	78	1680085	200.0	209.9	
88 Ethylbenzene	91	8.489	8.489	0.000	99	7814797	200.0	215.8	
90 m-Xylene & p-Xylene	106	8.605	8.605	0.000	99	2955967	200.0	212.3	
91 o-Xylene	106	9.037	9.031	0.006	98	2866326	200.0	211.4	
92 Styrene	104	9.049	9.049	0.000	94	5115375	200.0	223.7	
95 Bromoform	173	9.304	9.311	-0.007	96	1115009	200.0	236.0	
94 Isopropylbenzene	105	9.402	9.402	0.000	95	7591759	200.0	210.5	
97 1,1,2,2-Tetrachloroethane	83	9.736	9.736	0.000	95	1787142	200.0	221.8	
101 Bromobenzene	156	9.767	9.767	0.000	96	1911666	200.0	210.6	
98 trans-1,4-Dichloro-2-butene	53	9.785	9.785	0.000	77	673694	200.0	227.7	
100 1,2,3-Trichloropropane	110	9.797	9.791	0.006	84	547423	200.0	211.3	
99 N-Propylbenzene	91	9.815	9.815	0.000	99	9020933	200.0	213.4	
103 2-Chlorotoluene	126	9.937	9.937	0.000	96	1694857	200.0	203.2	
102 1,3,5-Trimethylbenzene	105	9.980	9.980	0.000	93	6406660	200.0	207.2	
105 4-Chlorotoluene	126	10.041	10.041	0.000	98	1767631	200.0	208.1	
106 tert-Butylbenzene	134	10.296	10.296	0.000	92	1342348	200.0	206.1	
107 1,2,4-Trimethylbenzene	105	10.345	10.345	0.000	95	6471050	200.0	209.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.503	10.497	0.006	94	7765348	200.0	207.5	
110 4-Isopropyltoluene	119	10.625	10.619	0.007	97	6705555	200.0	206.3	
111 1,3-Dichlorobenzene	146	10.649	10.643	0.006	98	3592365	200.0	207.5	
113 1,4-Dichlorobenzene	146	10.728	10.722	0.006	95	3638795	200.0	207.6	
115 n-Butylbenzene	91	10.990	10.990	0.000	98	5819463	200.0	204.7	
116 1,2-Dichlorobenzene	146	11.069	11.069	0.000	97	3412308	200.0	207.2	
117 1,2-Dibromo-3-Chloropropane	75	11.732	11.732	0.000	85	370199	200.0	221.3	
119 1,2,4-Trichlorobenzene	180	12.395	12.395	0.000	94	2402448	200.0	202.8	
120 Hexachlorobutadiene	225	12.504	12.504	0.000	96	1290389	200.0	201.6	
121 Naphthalene	128	12.626	12.626	0.000	97	6039717	200.0	236.4	
122 1,2,3-Trichlorobenzene	180	12.845	12.845	0.000	96	2367060	200.0	211.6	
S 123 Total BTEX	1				0			1064.6	
S 124 Xylenes, Total	1				0			423.7	
S 125 1,2-Dichloroethene, Total	1				0			418.0	
S 126 1,3-Dichloropropene, Total	1				0			452.4	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00202	Amount Added: 100.00	Units: uL	
GAS CORP mix_00440	Amount Added: 100.00	Units: uL	
F 8260 IS/SS_00117	Amount Added: 1.00	Units: uL	Run Reagent

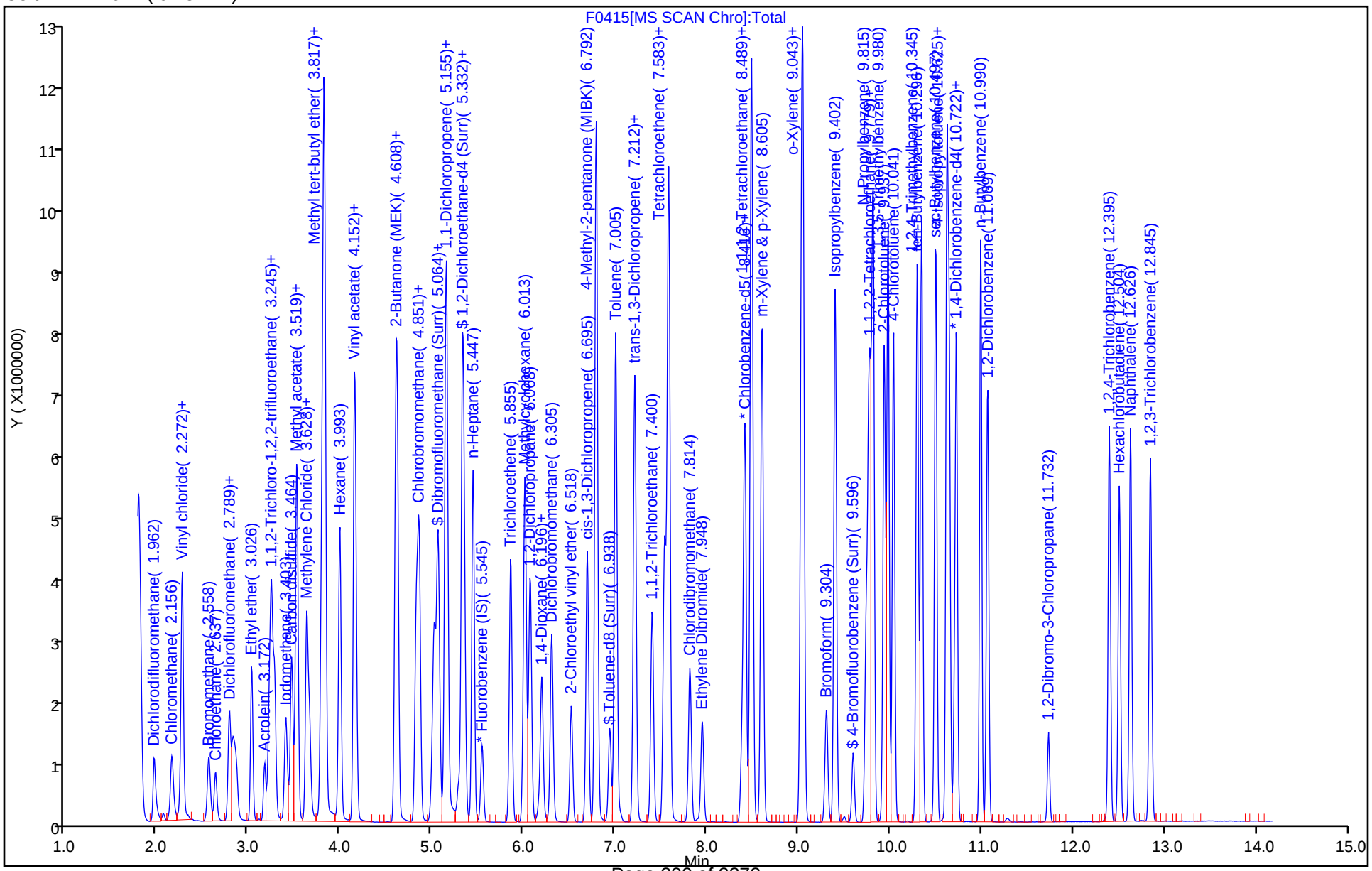
Report Date: 05-Feb-2021 09:49:53 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0415.D

Injection Date:	04-Feb-2021 15:34:30	Instrument ID:	HP5973F	Operator ID:	WD
Lims ID:	IC 7			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Calibration / Dichlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

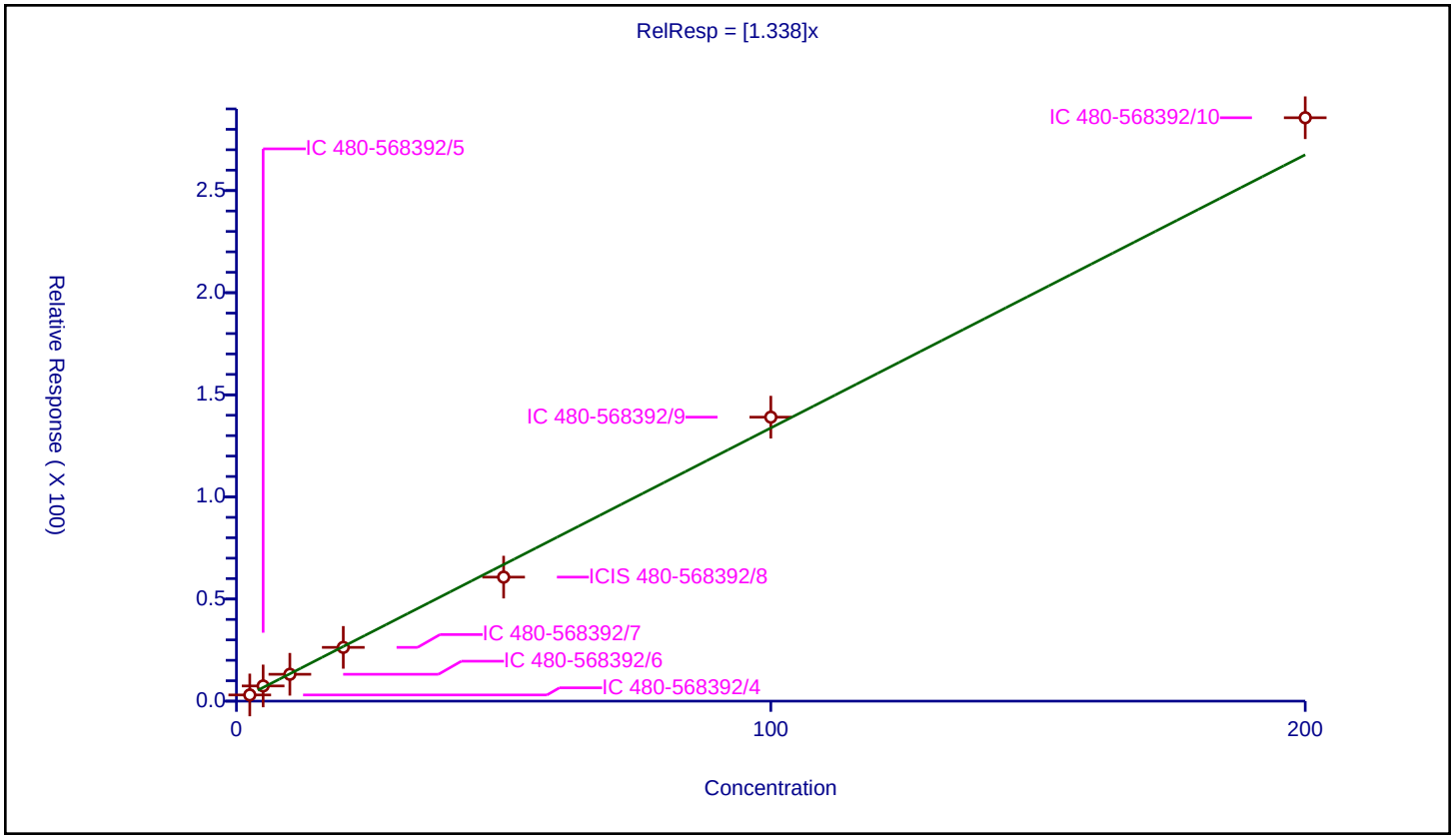
Curve Coefficients

Intercept:	0
Slope:	1.338

Error Coefficients

Standard Error:	651000
Relative Standard Error:	7.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	3.027343	50.0	216543.0	1.210937	Y
2	IC 480-568392/5	5.0	7.441719	50.0	219284.0	1.488344	Y
3	IC 480-568392/6	10.0	13.149219	50.0	223846.0	1.314922	Y
4	IC 480-568392/7	20.0	26.321183	50.0	226861.0	1.316059	Y
5	ICIS 480-568392/8	50.0	60.728637	50.0	238157.0	1.214573	Y
6	IC 480-568392/9	100.0	139.061429	50.0	242198.0	1.390614	Y
7	IC 480-568392/10	200.0	285.670771	50.0	246880.0	1.428354	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

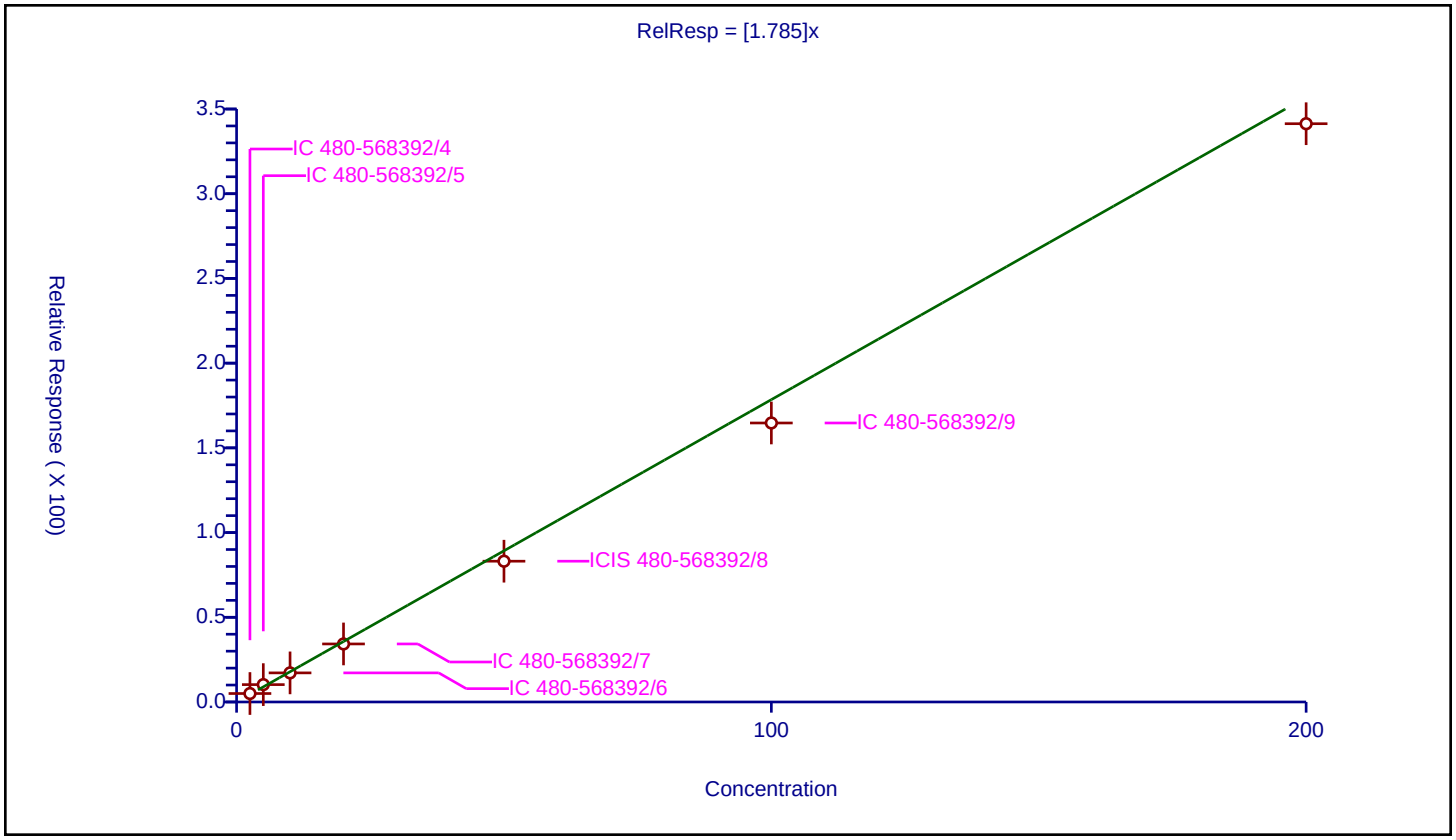
Curve Coefficients

Intercept:	0
Slope:	1.785

Error Coefficients

Standard Error:	781000
Relative Standard Error:	9.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	4.990233	50.0	216543.0	1.996093	Y
2	IC 480-568392/5	5.0	10.250862	50.0	219284.0	2.050172	Y
3	IC 480-568392/6	10.0	17.174307	50.0	223846.0	1.717431	Y
4	IC 480-568392/7	20.0	34.265035	50.0	226861.0	1.713252	Y
5	ICIS 480-568392/8	50.0	83.091196	50.0	238157.0	1.661824	Y
6	IC 480-568392/9	100.0	164.680138	50.0	242198.0	1.646801	Y
7	IC 480-568392/10	200.0	341.323923	50.0	246880.0	1.70662	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

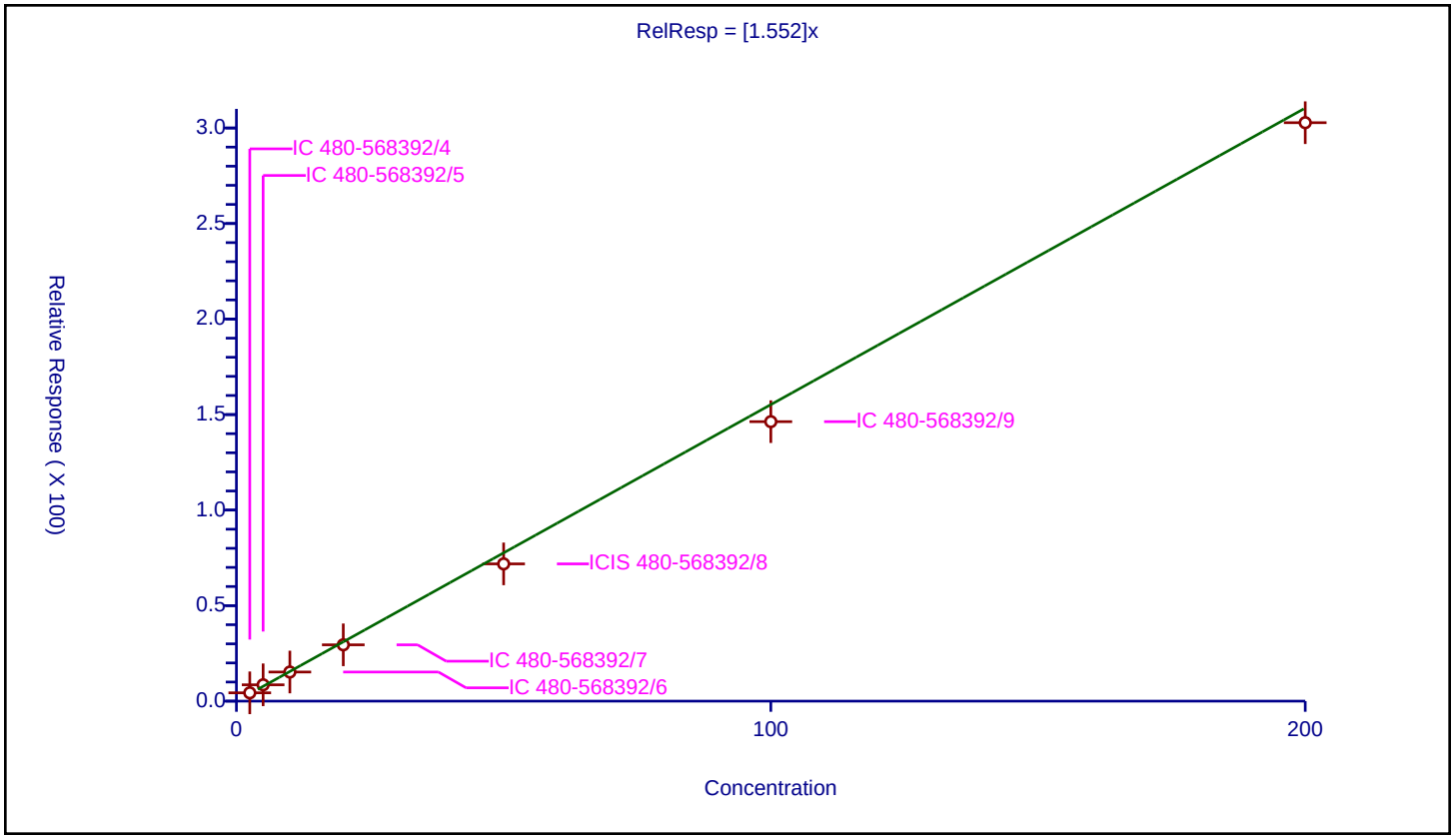
Curve Coefficients

Intercept:	0
Slope:	1.552

Error Coefficients

Standard Error:	693000
Relative Standard Error:	7.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	4.355255	50.0	216543.0	1.742102	Y
2	IC 480-568392/5	5.0	8.551696	50.0	219284.0	1.710339	Y
3	IC 480-568392/6	10.0	15.243516	50.0	223846.0	1.524352	Y
4	IC 480-568392/7	20.0	29.483031	50.0	226861.0	1.474152	Y
5	ICIS 480-568392/8	50.0	71.845253	50.0	238157.0	1.436905	Y
6	IC 480-568392/9	100.0	146.294354	50.0	242198.0	1.462944	Y
7	IC 480-568392/10	200.0	302.777665	50.0	246880.0	1.513888	Y



Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

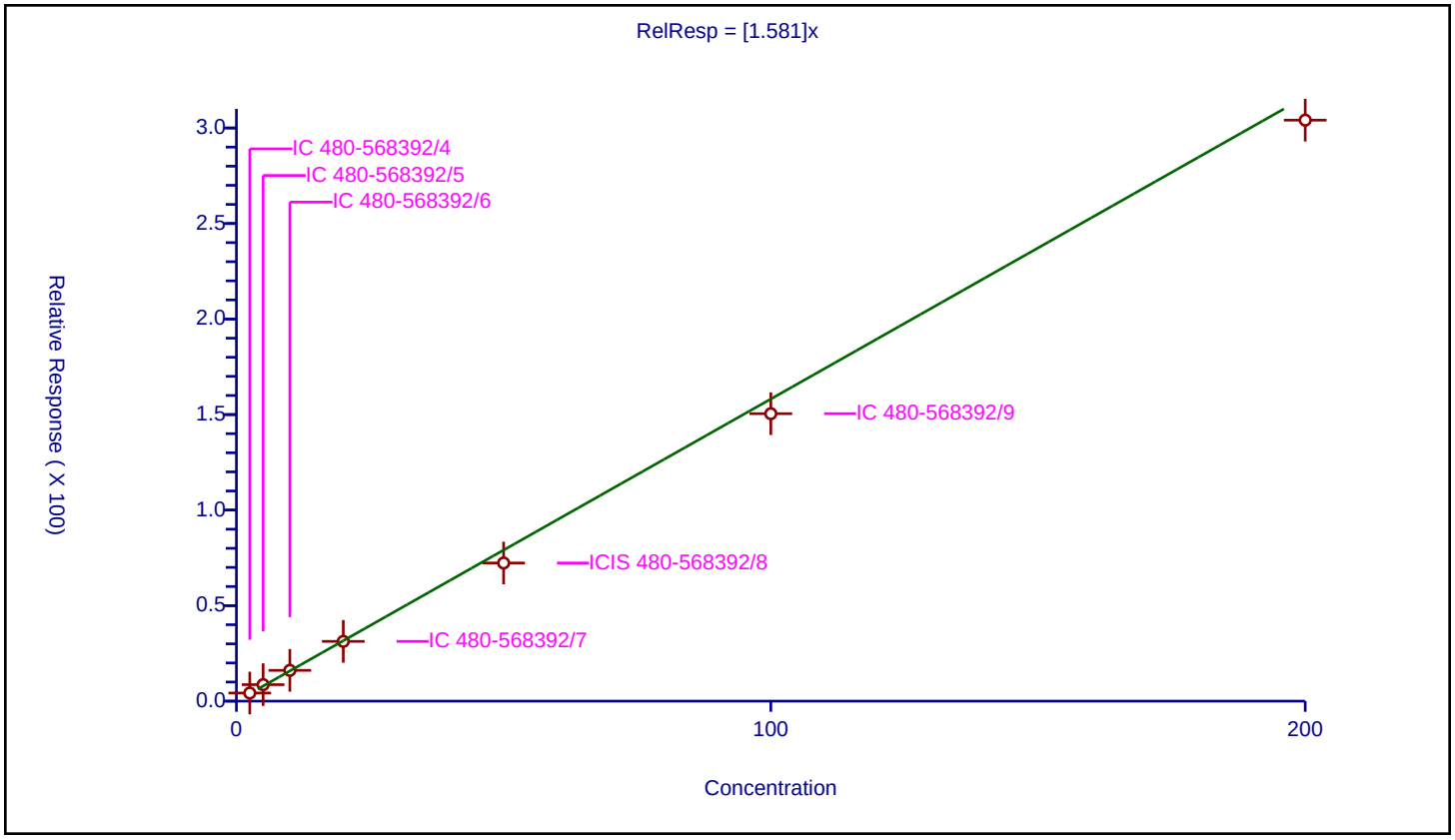
Curve Coefficients

Intercept:	0
Slope:	1.581

Error Coefficients

Standard Error:	699000
Relative Standard Error:	6.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	4.242806	50.0	216543.0	1.697123	Y
2	IC 480-568392/5	5.0	8.630589	50.0	219284.0	1.726118	Y
3	IC 480-568392/6	10.0	16.114204	50.0	223846.0	1.61142	Y
4	IC 480-568392/7	20.0	31.280828	50.0	226861.0	1.564041	Y
5	ICIS 480-568392/8	50.0	72.311122	50.0	238157.0	1.446222	Y
6	IC 480-568392/9	100.0	150.465528	50.0	242198.0	1.504655	Y
7	IC 480-568392/10	200.0	304.09693	50.0	246880.0	1.520485	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

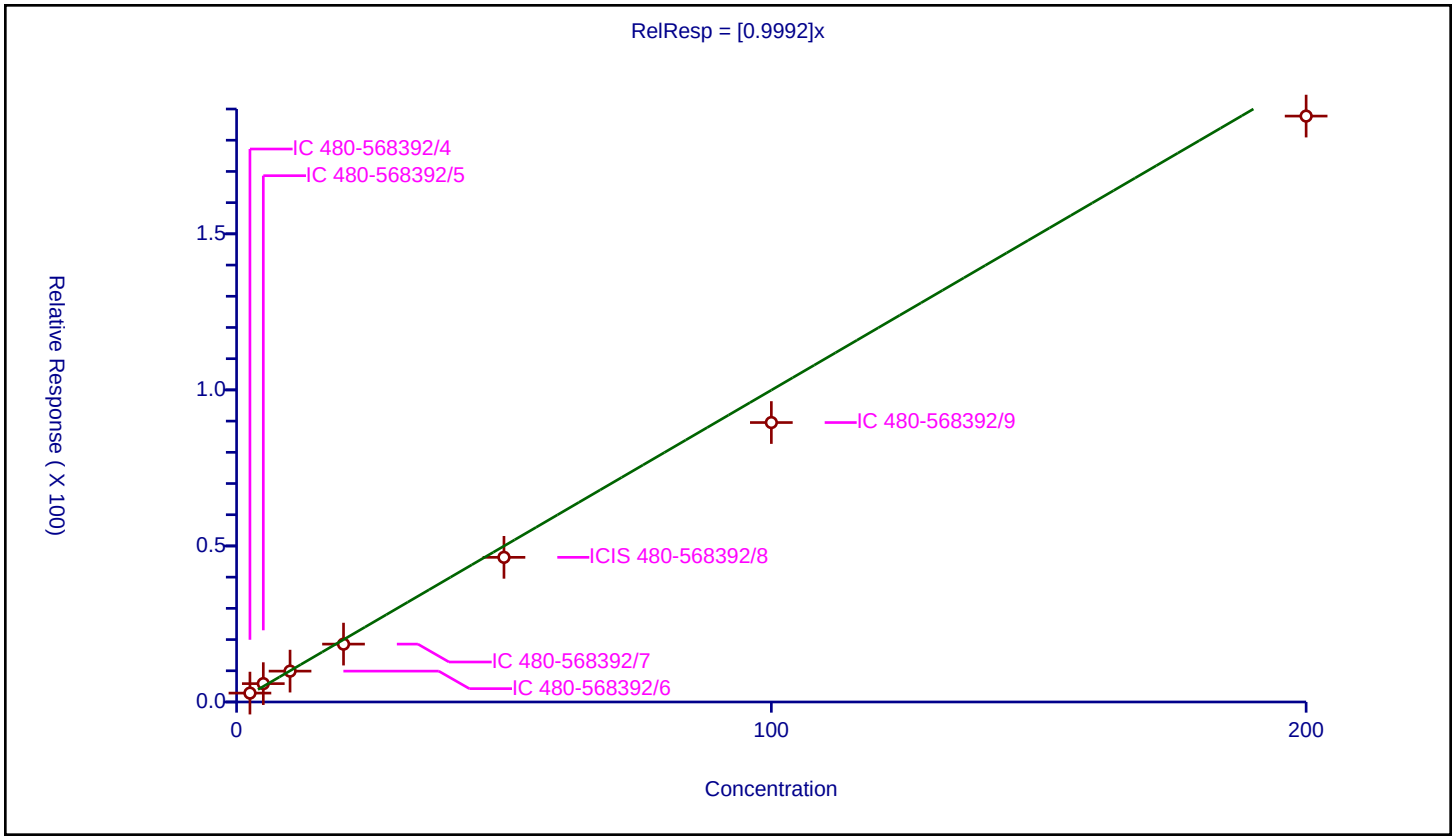
Curve Coefficients

Intercept:	0
Slope:	0.9992

Error Coefficients

Standard Error:	429000
Relative Standard Error:	11.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	2.852089	50.0	216543.0	1.140836	Y
2	IC 480-568392/5	5.0	5.881186	50.0	219284.0	1.176237	Y
3	IC 480-568392/6	10.0	9.893409	50.0	223846.0	0.989341	Y
4	IC 480-568392/7	20.0	18.54153	50.0	226861.0	0.927076	Y
5	ICIS 480-568392/8	50.0	46.350727	50.0	238157.0	0.927015	Y
6	IC 480-568392/9	100.0	89.540789	50.0	242198.0	0.895408	Y
7	IC 480-568392/10	200.0	187.739388	50.0	246880.0	0.938697	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

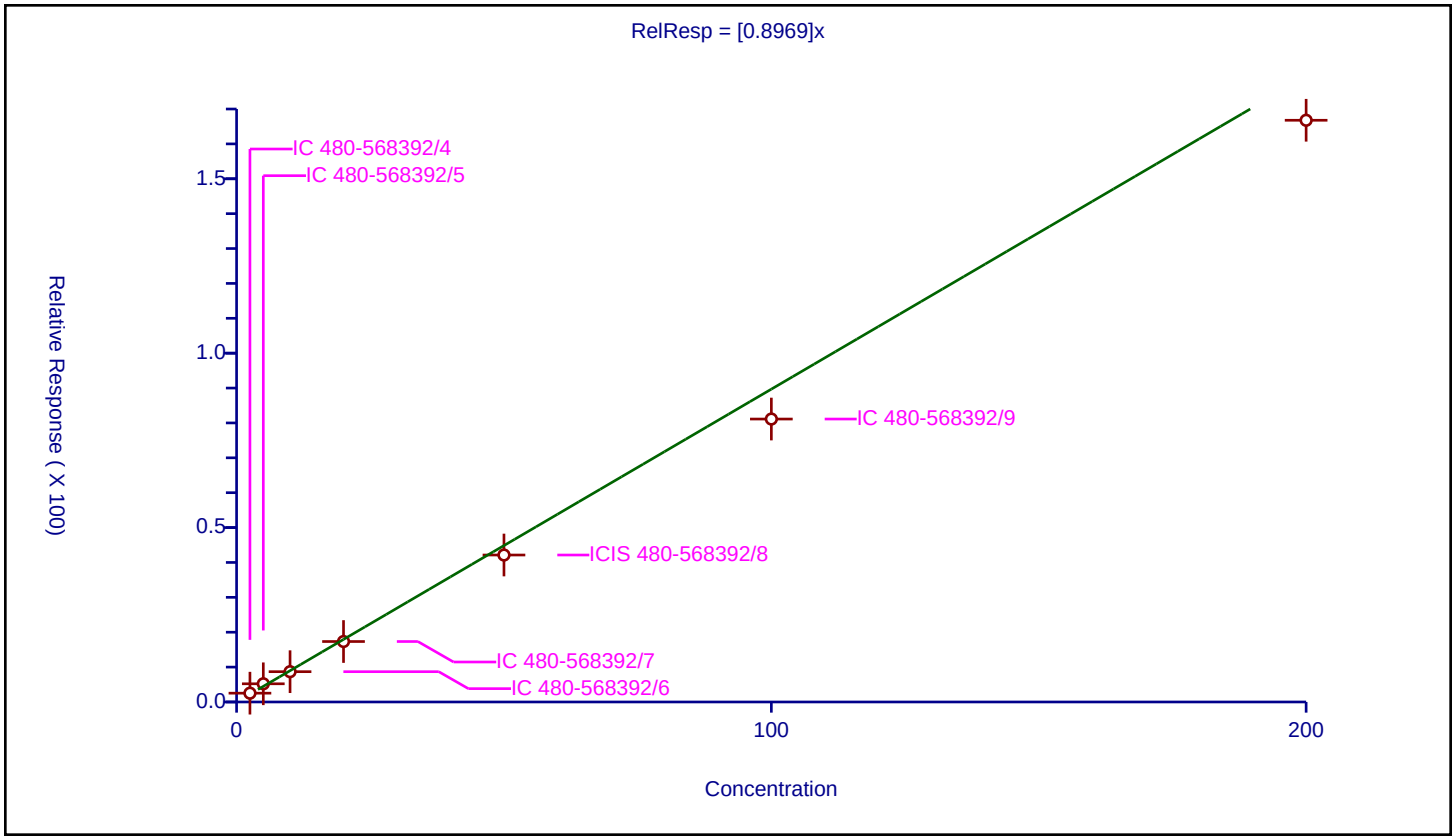
Curve Coefficients

Intercept:	0
Slope:	0.8969

Error Coefficients

Standard Error:	383000
Relative Standard Error:	10.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	2.529521	50.0	216543.0	1.011808	Y
2	IC 480-568392/5	5.0	5.214699	50.0	219284.0	1.04294	Y
3	IC 480-568392/6	10.0	8.687893	50.0	223846.0	0.868789	Y
4	IC 480-568392/7	20.0	17.333962	50.0	226861.0	0.866698	Y
5	ICIS 480-568392/8	50.0	42.139219	50.0	238157.0	0.842784	Y
6	IC 480-568392/9	100.0	81.118754	50.0	242198.0	0.811188	Y
7	IC 480-568392/10	200.0	166.771913	50.0	246880.0	0.83386	Y



Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

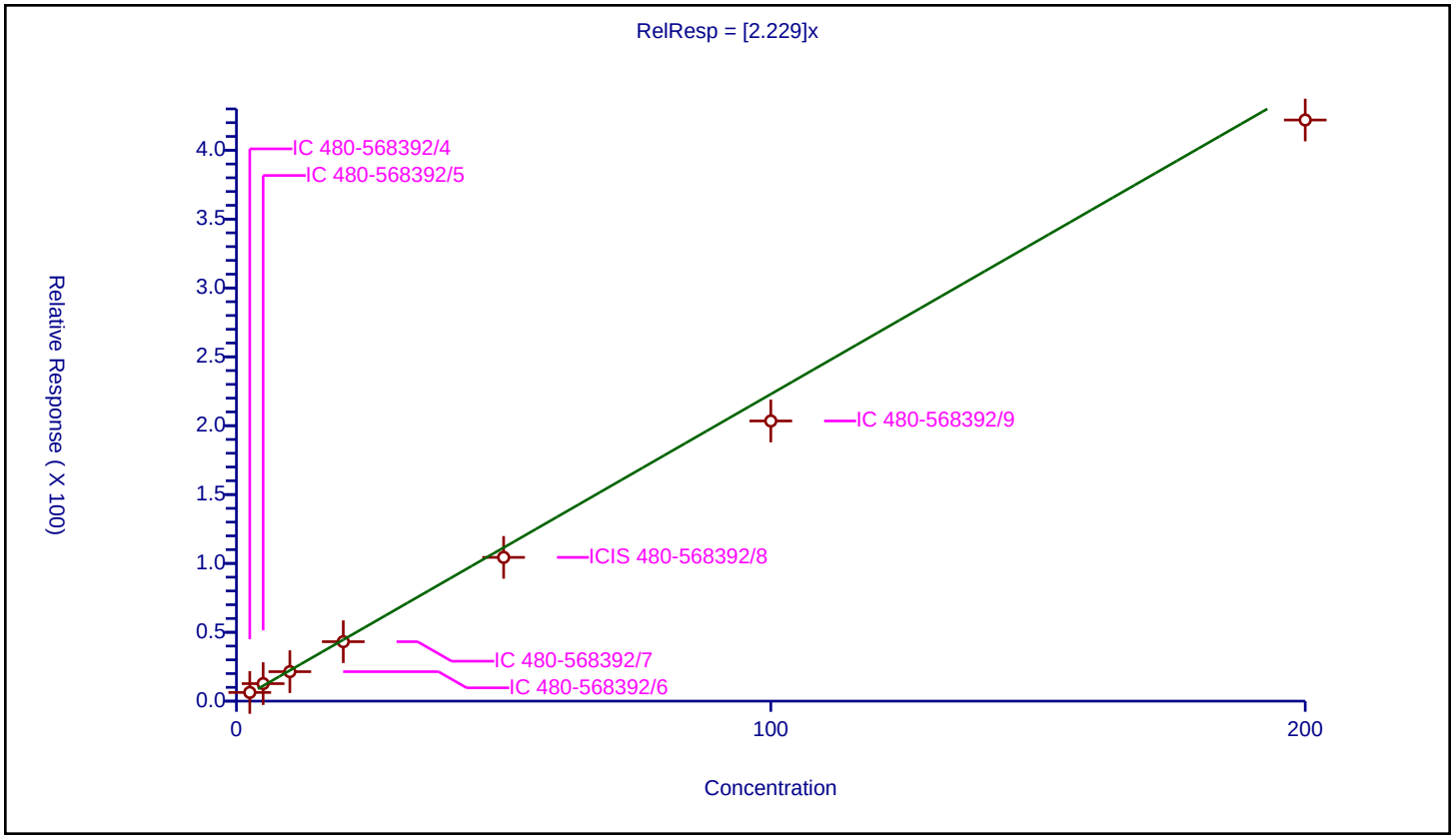
Curve Coefficients

Intercept:	0
Slope:	2.229

Error Coefficients

Standard Error:	967000
Relative Standard Error:	9.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	6.321377	50.0	216543.0	2.528551	Y
2	IC 480-568392/5	5.0	12.721858	50.0	219284.0	2.544372	Y
3	IC 480-568392/6	10.0	21.405788	50.0	223846.0	2.140579	Y
4	IC 480-568392/7	20.0	43.165198	50.0	226861.0	2.15826	Y
5	ICIS 480-568392/8	50.0	104.373166	50.0	238157.0	2.087463	Y
6	IC 480-568392/9	100.0	203.423645	50.0	242198.0	2.034236	Y
7	IC 480-568392/10	200.0	421.940821	50.0	246880.0	2.109704	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

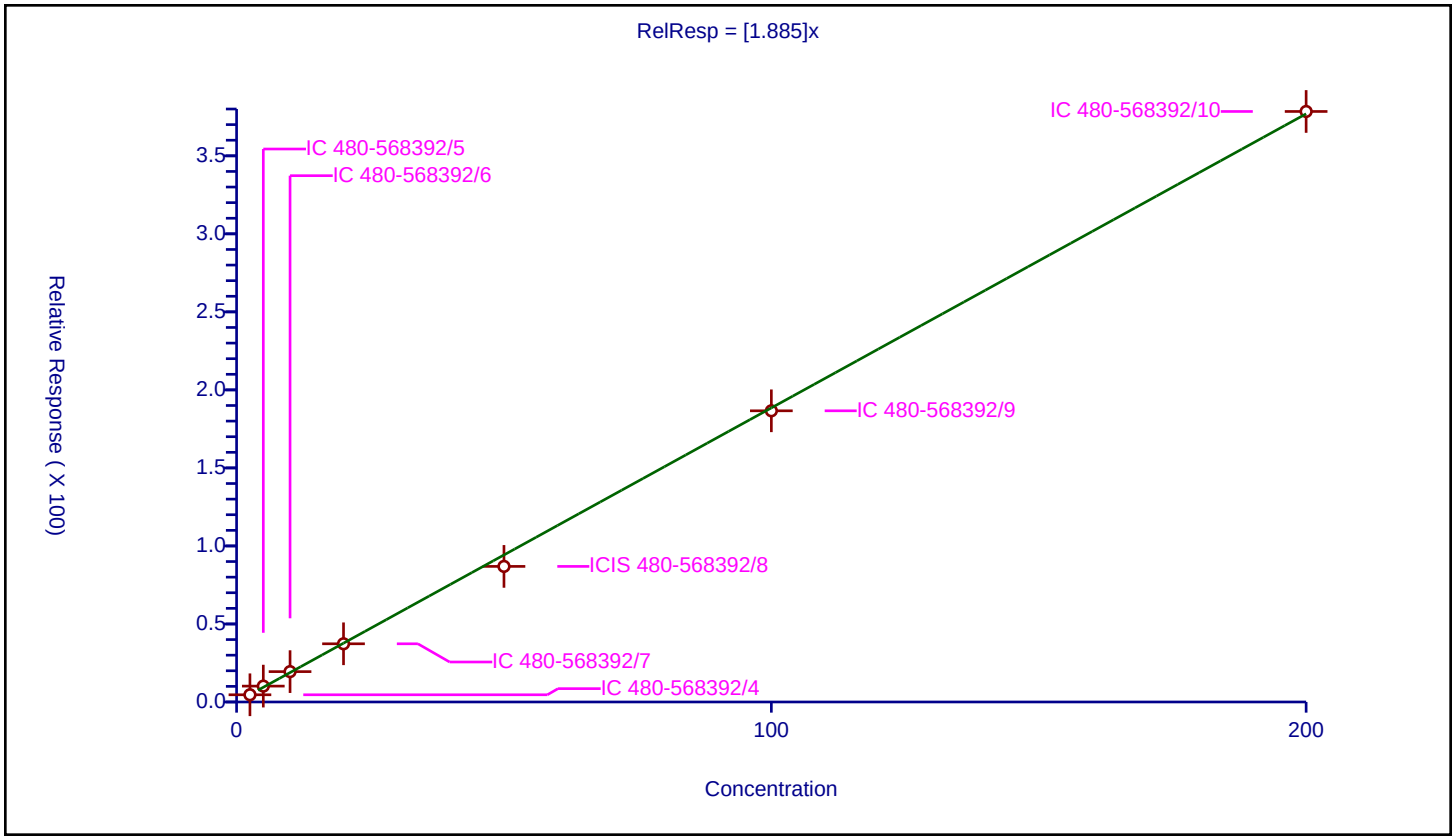
Curve Coefficients

Intercept:	0
Slope:	1.885

Error Coefficients

Standard Error:	868000
Relative Standard Error:	4.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	4.63072	50.0	216543.0	1.852288	Y
2	IC 480-568392/5	5.0	10.168549	50.0	219284.0	2.03371	Y
3	IC 480-568392/6	10.0	19.459137	50.0	223846.0	1.945914	Y
4	IC 480-568392/7	20.0	37.292659	50.0	226861.0	1.864633	Y
5	ICIS 480-568392/8	50.0	86.89226	50.0	238157.0	1.737845	Y
6	IC 480-568392/9	100.0	186.601045	50.0	242198.0	1.86601	Y
7	IC 480-568392/10	200.0	378.432032	50.0	246880.0	1.89216	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

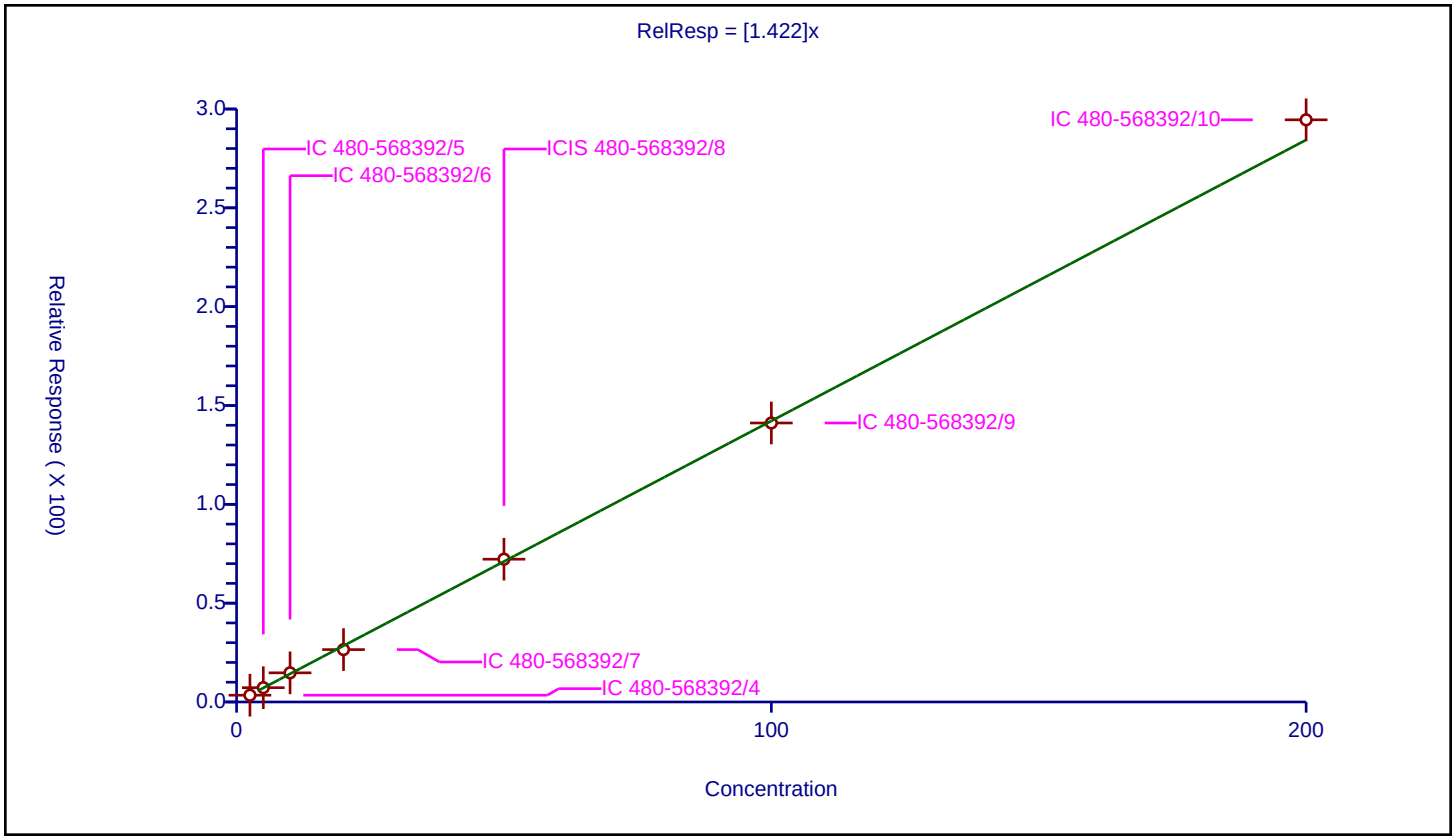
Curve Coefficients

Intercept:	0
Slope:	1.422

Error Coefficients

Standard Error:	673000
Relative Standard Error:	3.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	3.435807	50.0	216543.0	1.374323	Y
2	IC 480-568392/5	5.0	7.244487	50.0	219284.0	1.448897	Y
3	IC 480-568392/6	10.0	14.753	50.0	223846.0	1.4753	Y
4	IC 480-568392/7	20.0	26.500148	50.0	226861.0	1.325007	Y
5	ICIS 480-568392/8	50.0	72.239531	50.0	238157.0	1.444791	Y
6	IC 480-568392/9	100.0	141.152693	50.0	242198.0	1.411527	Y
7	IC 480-568392/10	200.0	294.538845	50.0	246880.0	1.472694	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

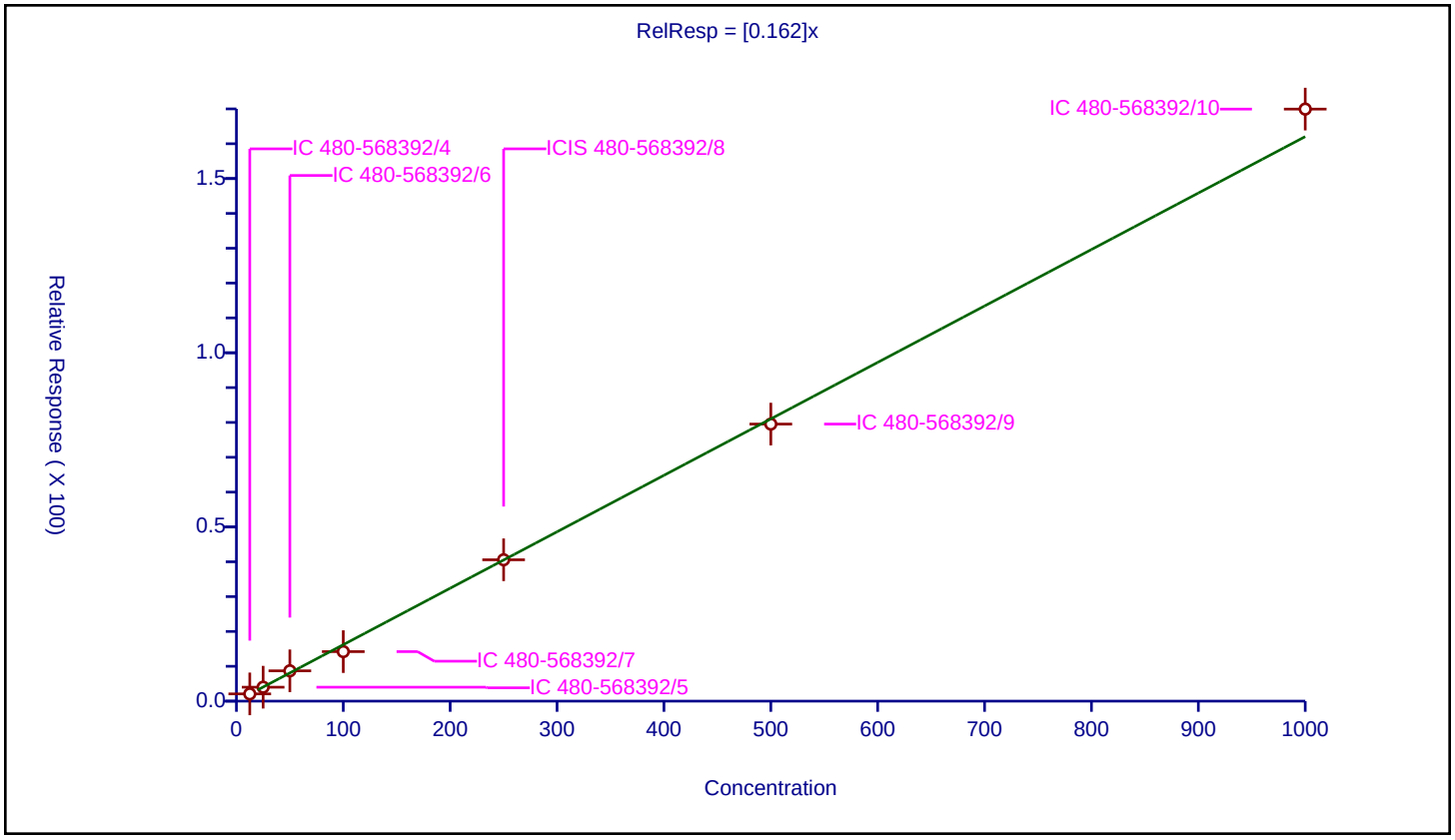
Curve Coefficients

Intercept:	0
Slope:	0.162

Error Coefficients

Standard Error:	386000
Relative Standard Error:	6.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	12.5	2.082035	50.0	216543.0	0.166563	Y
2	IC 480-568392/5	25.0	4.004168	50.0	219284.0	0.160167	Y
3	IC 480-568392/6	50.0	8.706209	50.0	223846.0	0.174124	Y
4	IC 480-568392/7	100.0	14.215092	50.0	226861.0	0.142151	Y
5	ICIS 480-568392/8	250.0	40.574285	50.0	238157.0	0.162297	Y
6	IC 480-568392/9	500.0	79.5277	50.0	242198.0	0.159055	Y
7	IC 480-568392/10	1000.0	169.940254	50.0	246880.0	0.16994	Y



Calibration / 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

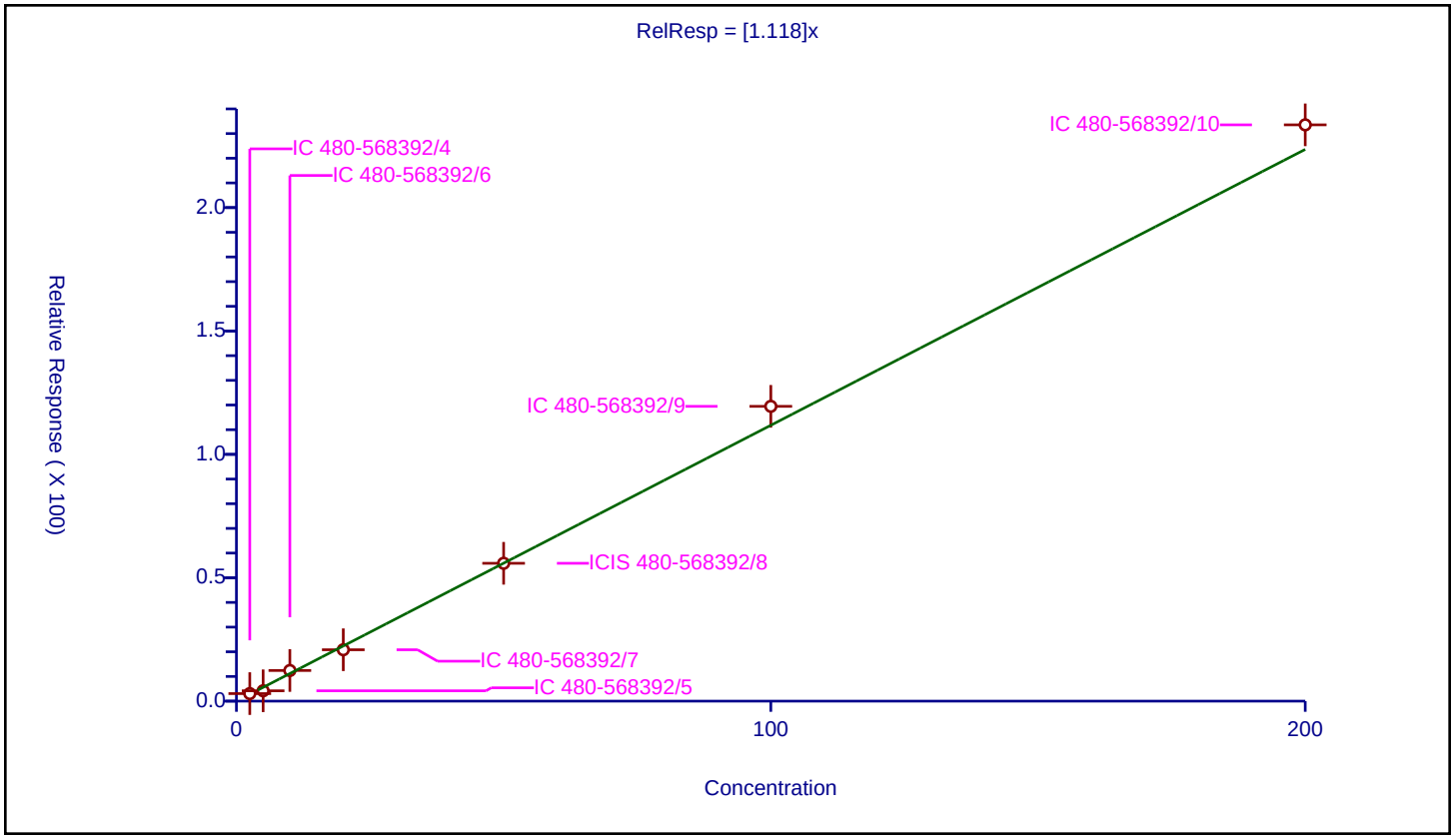
Curve Coefficients

Intercept:	0
Slope:	1.118

Error Coefficients

Standard Error:	540000
Relative Standard Error:	12.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	3.062209	50.0	216543.0	1.224884	Y
2	IC 480-568392/5	5.0	4.191368	50.0	219284.0	0.838274	Y
3	IC 480-568392/6	10.0	12.414115	50.0	223846.0	1.241412	Y
4	IC 480-568392/7	20.0	20.827732	50.0	226861.0	1.041387	Y
5	ICIS 480-568392/8	50.0	55.86105	50.0	238157.0	1.117221	Y
6	IC 480-568392/9	100.0	119.466924	50.0	242198.0	1.194669	Y
7	IC 480-568392/10	200.0	233.532688	50.0	246880.0	1.167663	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

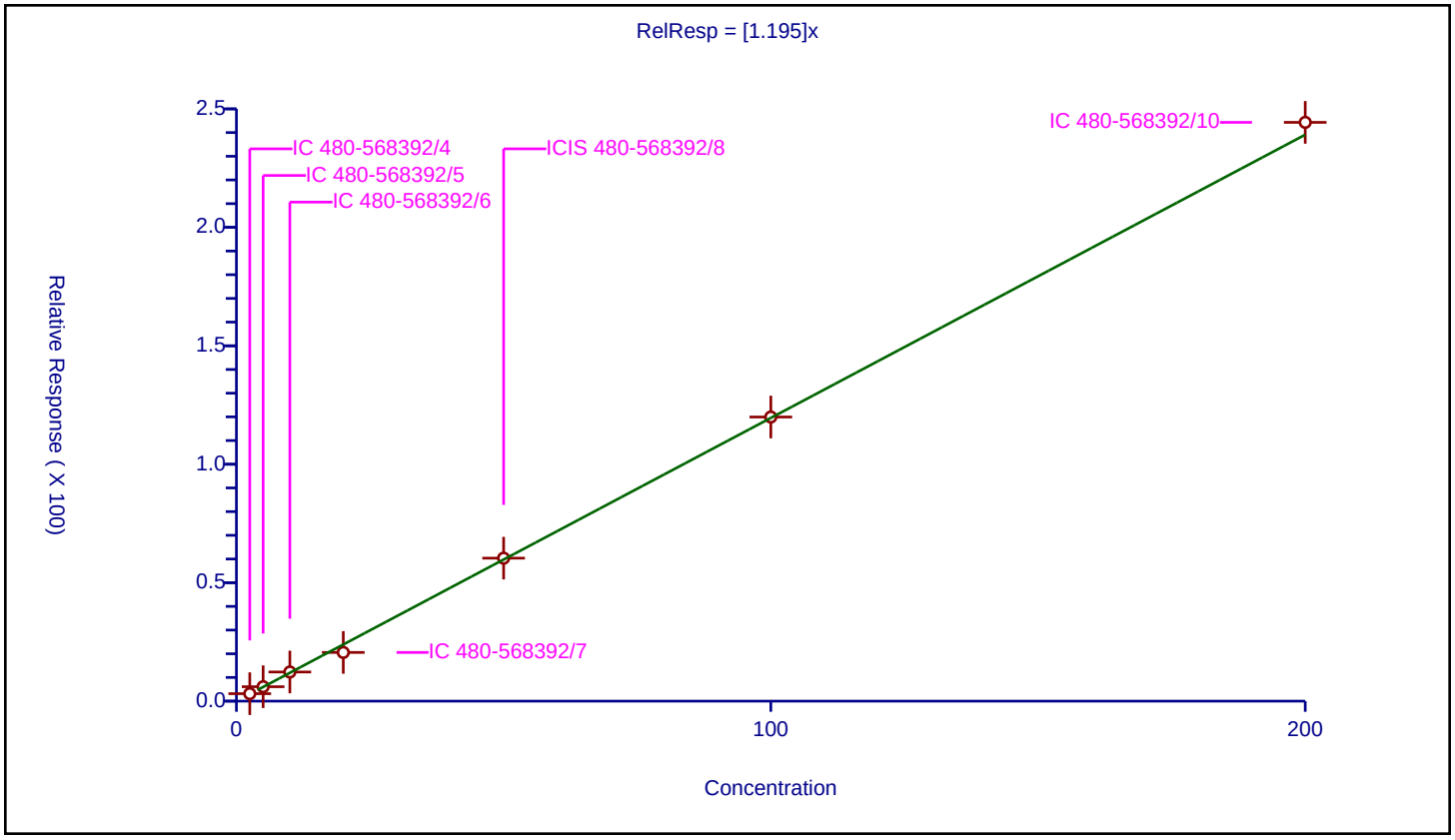
Curve Coefficients

Intercept:	0
Slope:	1.195

Error Coefficients

Standard Error:	561000
Relative Standard Error:	6.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	3.158033	50.0	216543.0	1.263213	Y
2	IC 480-568392/5	5.0	6.091188	50.0	219284.0	1.218238	Y
3	IC 480-568392/6	10.0	12.310026	50.0	223846.0	1.231003	Y
4	IC 480-568392/7	20.0	20.555318	50.0	226861.0	1.027766	Y
5	ICIS 480-568392/8	50.0	60.361442	50.0	238157.0	1.207229	Y
6	IC 480-568392/9	100.0	119.933691	50.0	242198.0	1.199337	Y
7	IC 480-568392/10	200.0	244.313837	50.0	246880.0	1.221569	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

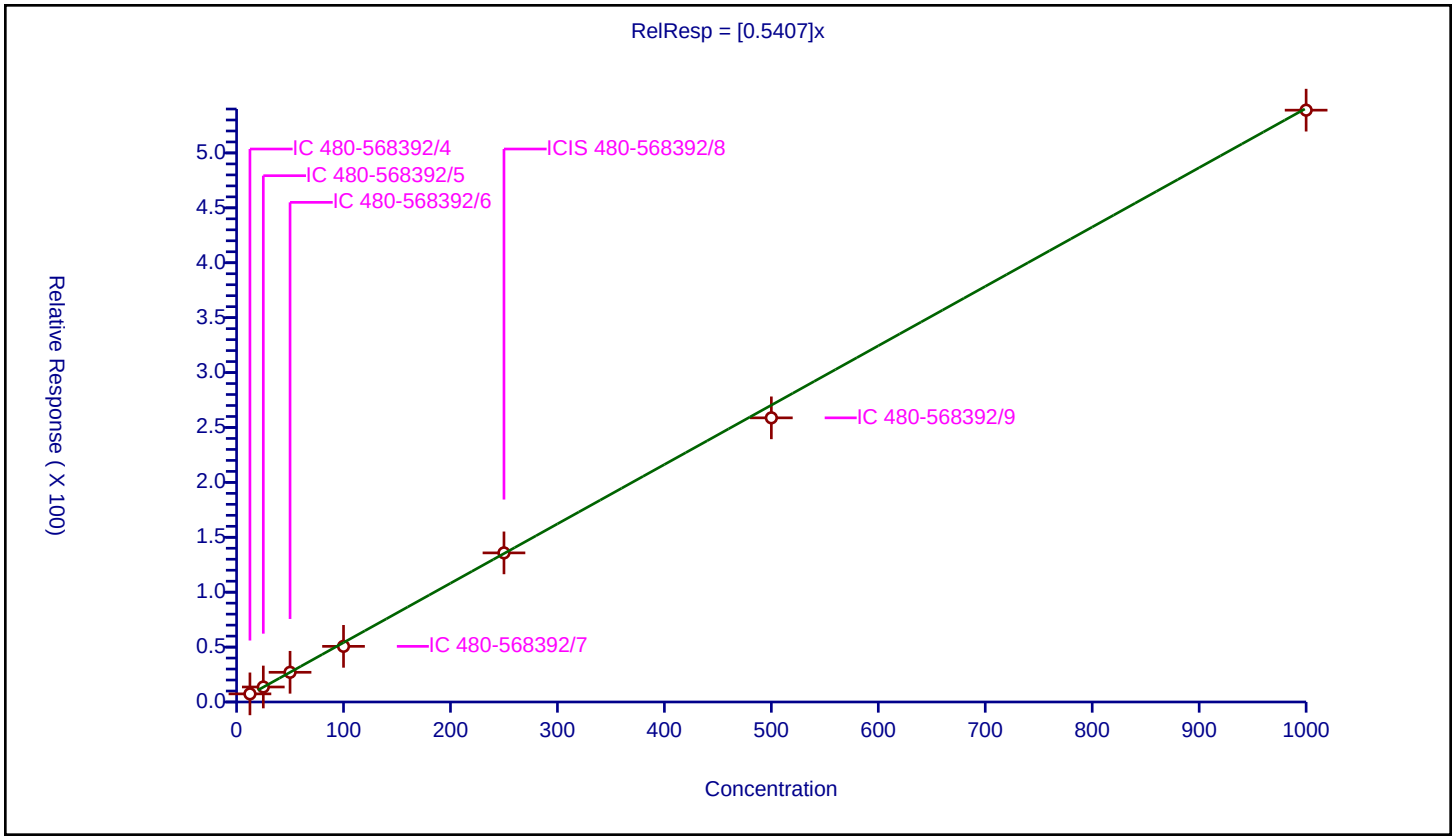
Curve Coefficients

Intercept:	0
Slope:	0.5407

Error Coefficients

Standard Error:	1230000
Relative Standard Error:	4.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	12.5	7.386062	50.0	216543.0	0.590885	Y
2	IC 480-568392/5	25.0	13.659455	50.0	219284.0	0.546378	Y
3	IC 480-568392/6	50.0	27.043592	50.0	223846.0	0.540872	Y
4	IC 480-568392/7	100.0	50.677287	50.0	226861.0	0.506773	Y
5	ICIS 480-568392/8	250.0	135.790046	50.0	238157.0	0.54316	Y
6	IC 480-568392/9	500.0	258.771749	50.0	242198.0	0.517543	Y
7	IC 480-568392/10	1000.0	538.95111	50.0	246880.0	0.538951	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

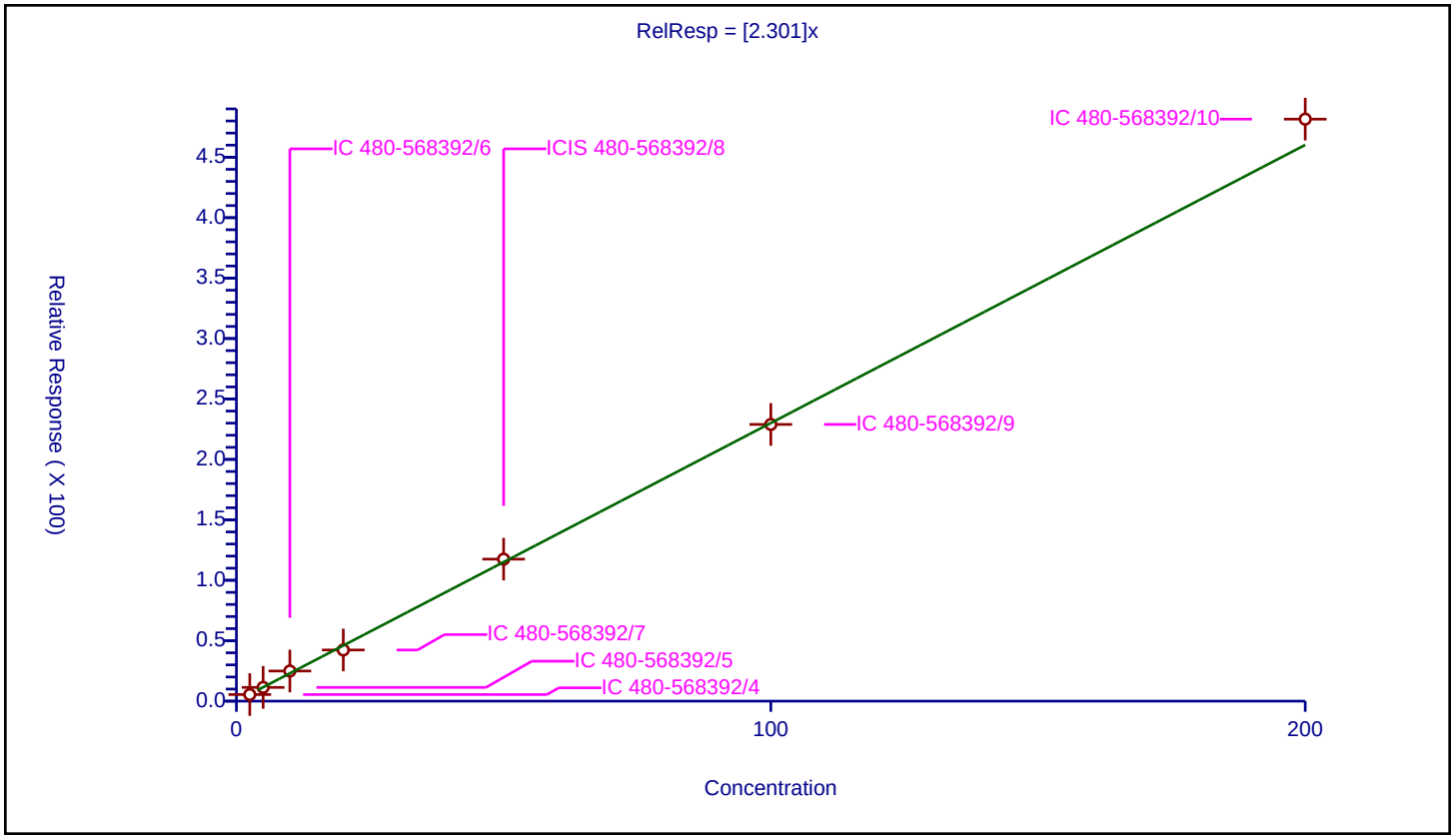
Curve Coefficients

Intercept:	0
Slope:	2.301

Error Coefficients

Standard Error:	1100000
Relative Standard Error:	5.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	5.451342	50.0	216543.0	2.180537	Y
2	IC 480-568392/5	5.0	11.350121	50.0	219284.0	2.270024	Y
3	IC 480-568392/6	10.0	24.93232	50.0	223846.0	2.493232	Y
4	IC 480-568392/7	20.0	42.322612	50.0	226861.0	2.116131	Y
5	ICIS 480-568392/8	50.0	117.491193	50.0	238157.0	2.349824	Y
6	IC 480-568392/9	100.0	228.930255	50.0	242198.0	2.289303	Y
7	IC 480-568392/10	200.0	481.517741	50.0	246880.0	2.407589	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

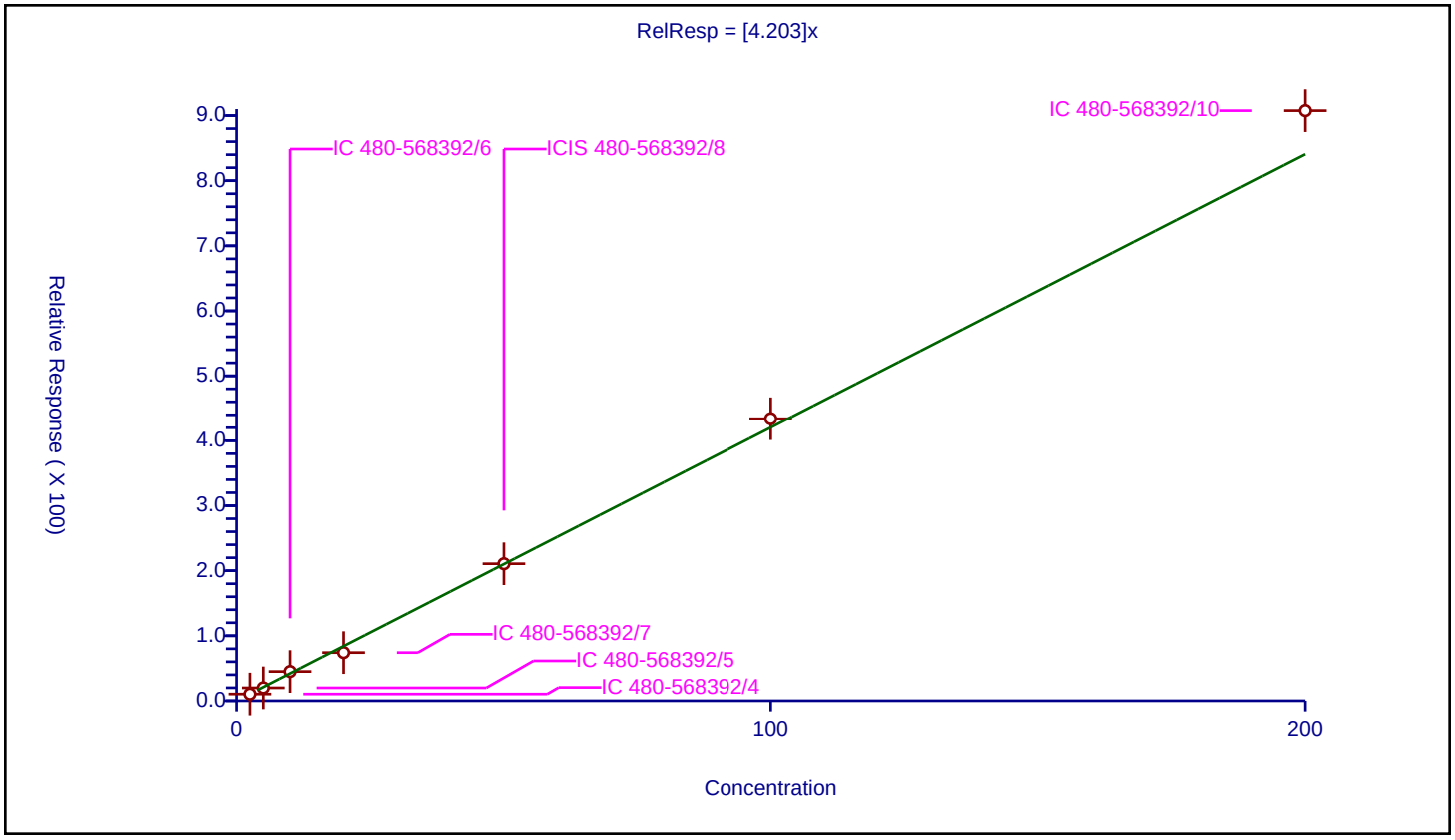
Curve Coefficients

Intercept:	0
Slope:	4.203

Error Coefficients

Standard Error:	2070000
Relative Standard Error:	7.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	10.36607	50.0	216543.0	4.146428	Y
2	IC 480-568392/5	5.0	19.89338	50.0	219284.0	3.978676	Y
3	IC 480-568392/6	10.0	45.013983	50.0	223846.0	4.501398	Y
4	IC 480-568392/7	20.0	74.112342	50.0	226861.0	3.705617	Y
5	ICIS 480-568392/8	50.0	210.726328	50.0	238157.0	4.214527	Y
6	IC 480-568392/9	100.0	433.993881	50.0	242198.0	4.339939	Y
7	IC 480-568392/10	200.0	907.545771	50.0	246880.0	4.537729	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

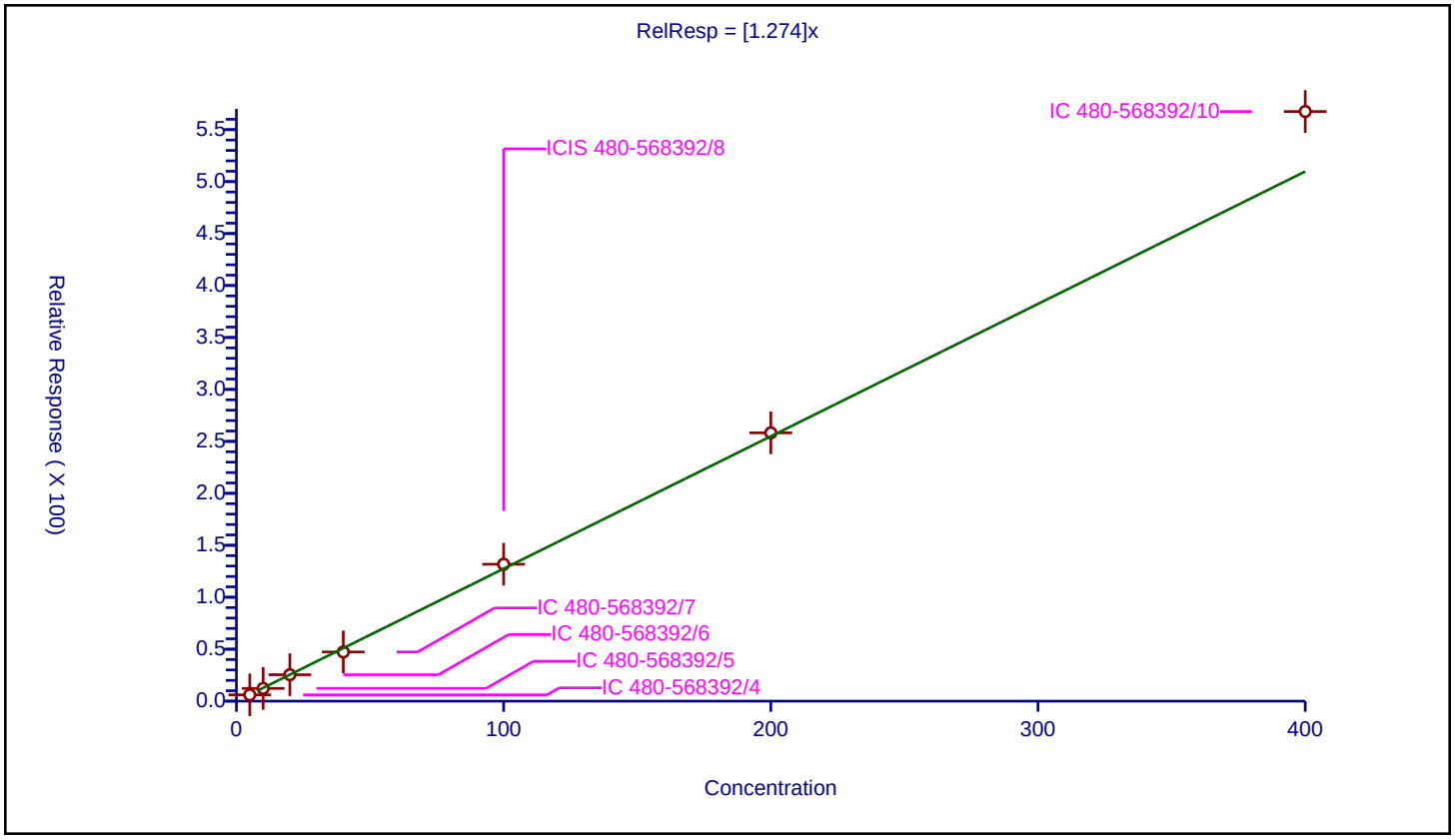
Curve Coefficients

Intercept:	0
Slope:	1.274

Error Coefficients

Standard Error:	1280000
Relative Standard Error:	6.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	5.0	6.064615	50.0	216543.0	1.212923	Y
2	IC 480-568392/5	10.0	12.256708	50.0	219284.0	1.225671	Y
3	IC 480-568392/6	20.0	25.419708	50.0	223846.0	1.270985	Y
4	IC 480-568392/7	40.0	47.334932	50.0	226861.0	1.183373	Y
5	ICIS 480-568392/8	100.0	131.775677	50.0	238157.0	1.317757	Y
6	IC 480-568392/9	200.0	258.228598	50.0	242198.0	1.291143	Y
7	IC 480-568392/10	400.0	567.455646	50.0	246880.0	1.418639	Y



Calibration / 3-Chloro-1-propene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

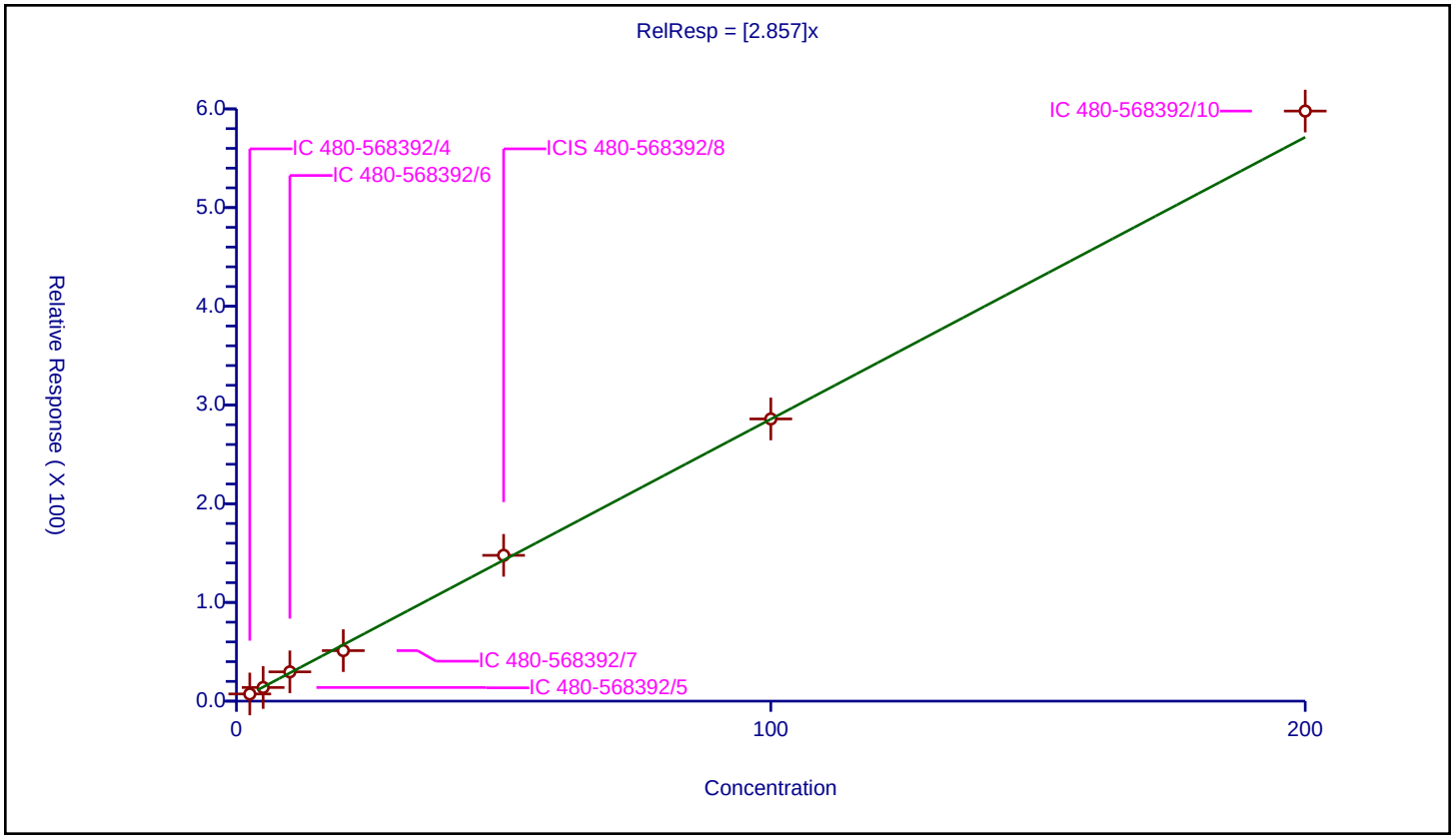
Curve Coefficients

Intercept:	0
Slope:	2.857

Error Coefficients

Standard Error:	1370000
Relative Standard Error:	5.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	7.265993	50.0	216543.0	2.906397	Y
2	IC 480-568392/5	5.0	13.815645	50.0	219284.0	2.763129	Y
3	IC 480-568392/6	10.0	29.667941	50.0	223846.0	2.966794	Y
4	IC 480-568392/7	20.0	51.174508	50.0	226861.0	2.558725	Y
5	ICIS 480-568392/8	50.0	147.719781	50.0	238157.0	2.954396	Y
6	IC 480-568392/9	100.0	285.88696	50.0	242198.0	2.85887	Y
7	IC 480-568392/10	200.0	597.816348	50.0	246880.0	2.989082	Y



Calibration / Methylene Chloride

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

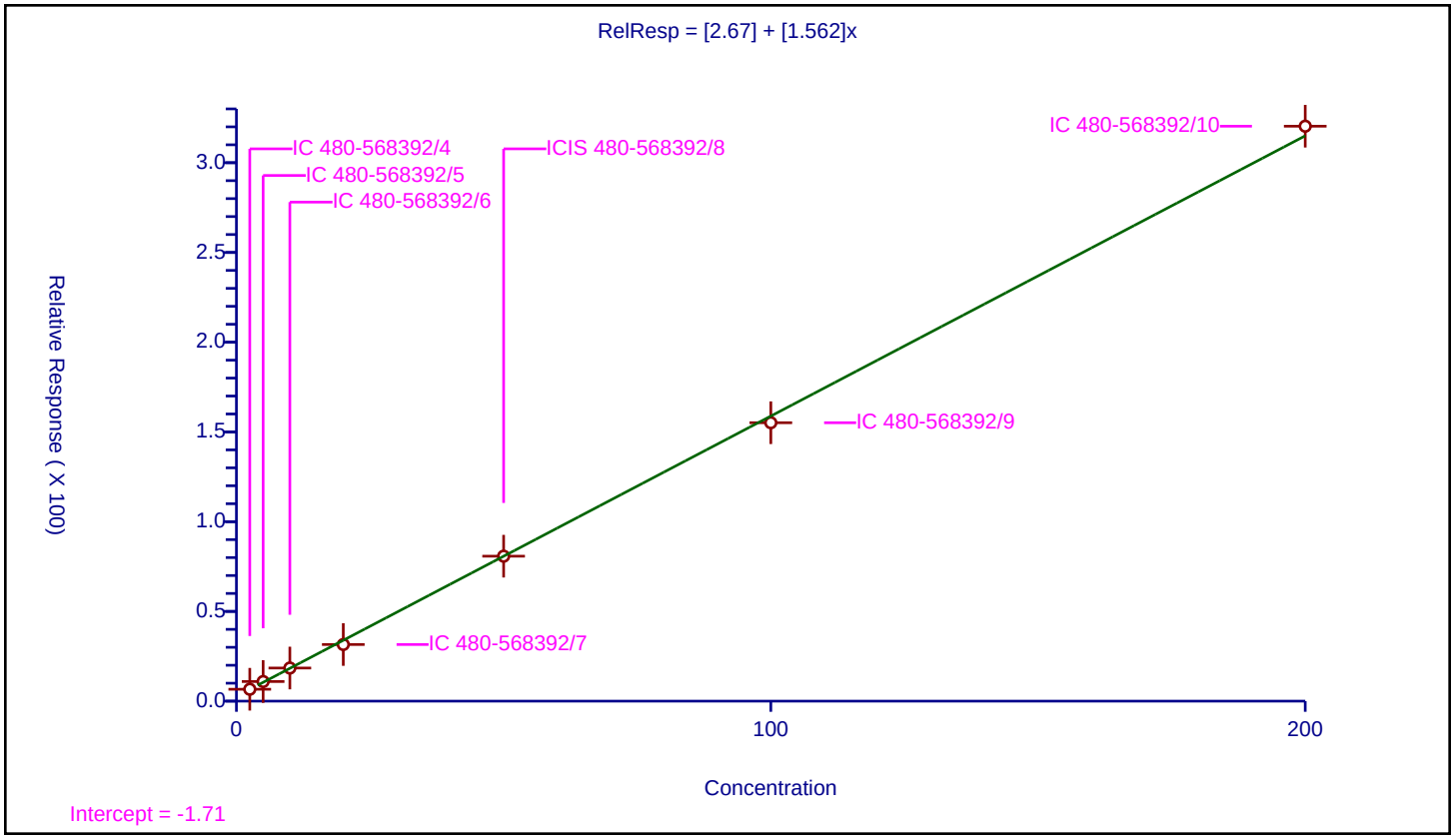
Curve Coefficients

Intercept:	2.67
Slope:	1.562

Error Coefficients

Standard Error:	805000
Relative Standard Error:	4.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	6.62455	50.0	216543.0	2.64982	Y
2	IC 480-568392/5	5.0	10.92989	50.0	219284.0	2.185978	Y
3	IC 480-568392/6	10.0	18.447504	50.0	223846.0	1.84475	Y
4	IC 480-568392/7	20.0	31.561617	50.0	226861.0	1.578081	Y
5	ICIS 480-568392/8	50.0	80.773817	50.0	238157.0	1.615476	Y
6	IC 480-568392/9	100.0	155.134023	50.0	242198.0	1.55134	Y
7	IC 480-568392/10	200.0	320.35098	50.0	246880.0	1.601755	Y



Calibration / 2-Methyl-2-propanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

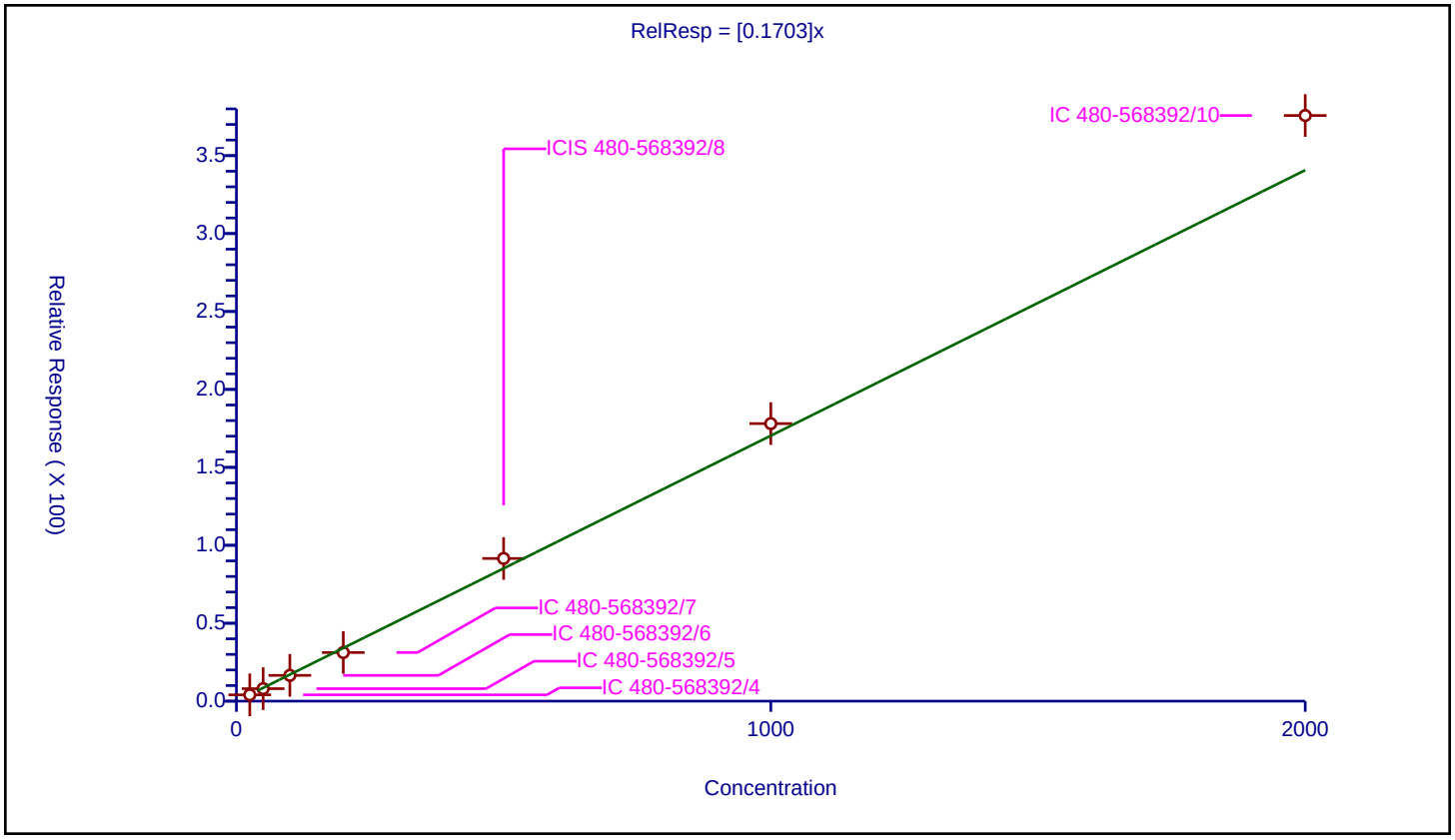
Curve Coefficients

Intercept:	0
Slope:	0.1703

Error Coefficients

Standard Error:	857000
Relative Standard Error:	7.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	25.0	4.045848	50.0	216543.0	0.161834	Y
2	IC 480-568392/5	50.0	8.008564	50.0	219284.0	0.160171	Y
3	IC 480-568392/6	100.0	16.539049	50.0	223846.0	0.16539	Y
4	IC 480-568392/7	200.0	31.192669	50.0	226861.0	0.155963	Y
5	ICIS 480-568392/8	500.0	91.536046	50.0	238157.0	0.183072	Y
6	IC 480-568392/9	1000.0	178.067738	50.0	242198.0	0.178068	Y
7	IC 480-568392/10	2000.0	375.750365	50.0	246880.0	0.187875	Y



Calibration / Methyl tert-butyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

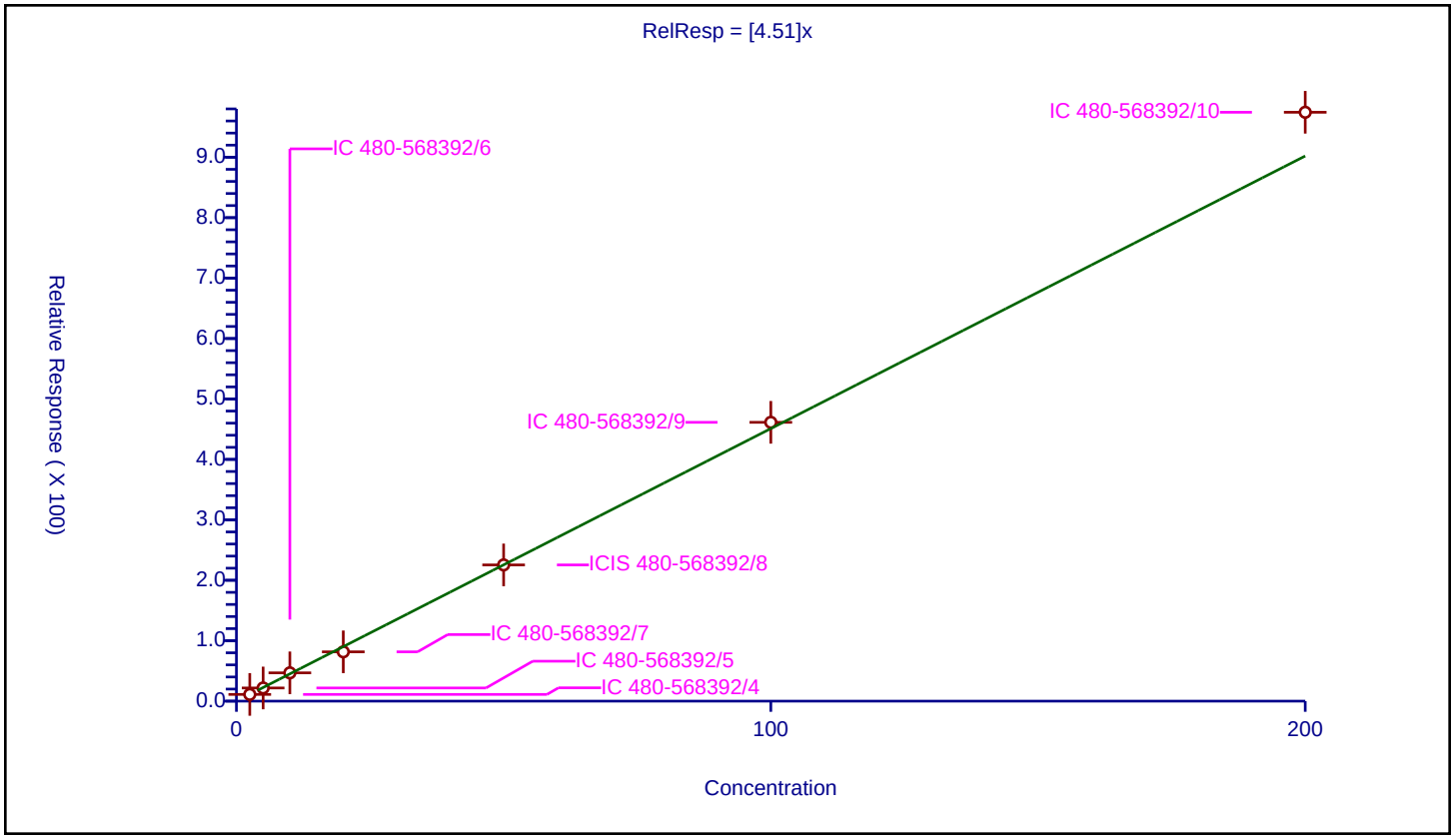
Curve Coefficients

Intercept:	0
Slope:	4.51

Error Coefficients

Standard Error:	2220000
Relative Standard Error:	5.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	11.144438	50.0	216543.0	4.457775	Y
2	IC 480-568392/5	5.0	21.797076	50.0	219284.0	4.359415	Y
3	IC 480-568392/6	10.0	46.80852	50.0	223846.0	4.680852	Y
4	IC 480-568392/7	20.0	81.596881	50.0	226861.0	4.079844	Y
5	ICIS 480-568392/8	50.0	225.414537	50.0	238157.0	4.508291	Y
6	IC 480-568392/9	100.0	461.353727	50.0	242198.0	4.613537	Y
7	IC 480-568392/10	200.0	974.400924	50.0	246880.0	4.872005	Y



Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

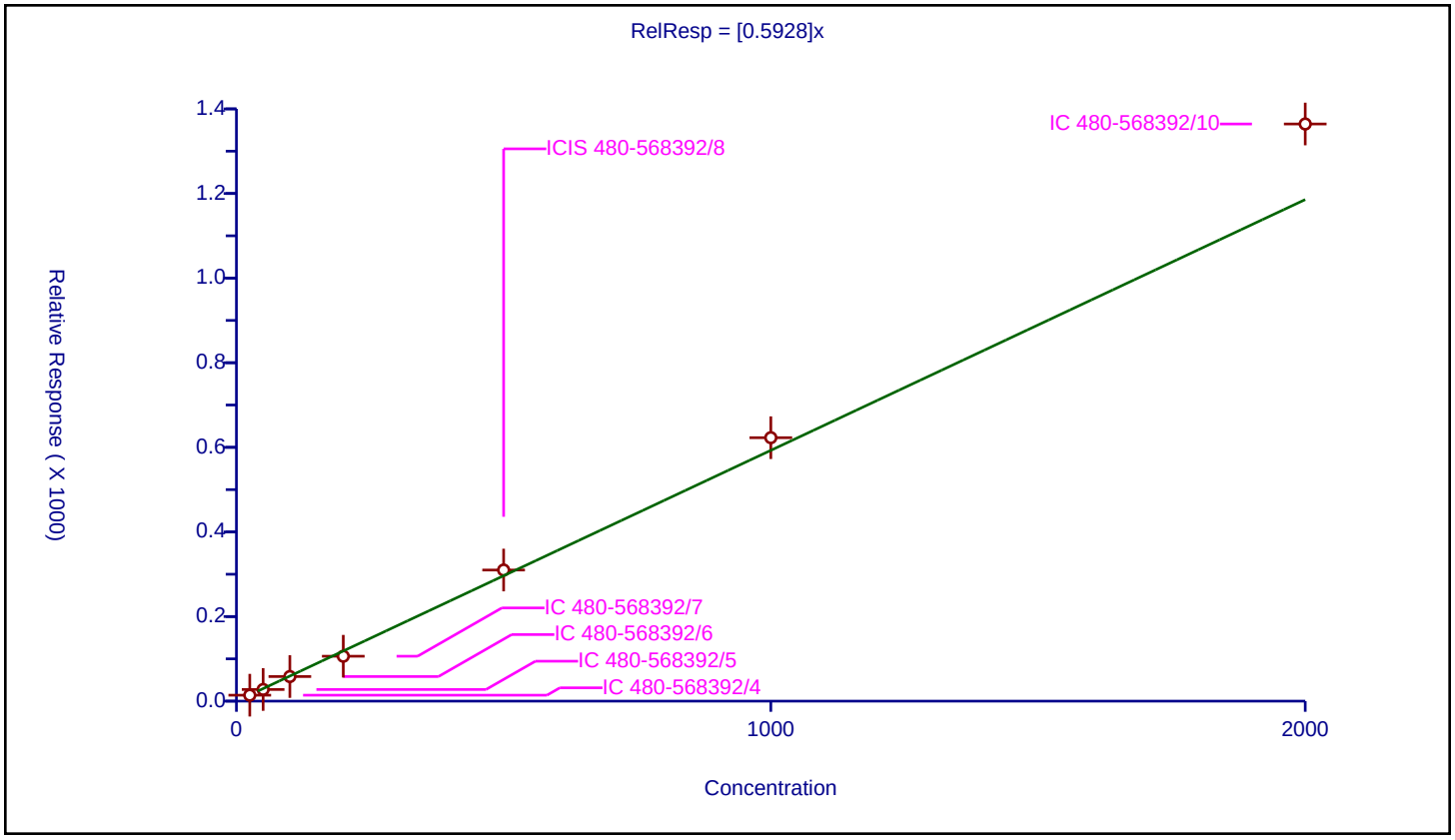
Curve Coefficients

Intercept:	0
Slope:	0.5928

Error Coefficients

Standard Error:	3080000
Relative Standard Error:	8.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	25.0	14.054483	50.0	216543.0	0.562179	Y
2	IC 480-568392/5	50.0	27.516371	50.0	219284.0	0.550327	Y
3	IC 480-568392/6	100.0	58.147119	50.0	223846.0	0.581471	Y
4	IC 480-568392/7	200.0	106.159719	50.0	226861.0	0.530799	Y
5	ICIS 480-568392/8	500.0	309.94722	50.0	238157.0	0.619894	Y
6	IC 480-568392/9	1000.0	622.794367	50.0	242198.0	0.622794	Y
7	IC 480-568392/10	2000.0	1364.325583	50.0	246880.0	0.682163	Y



Calibration / trans-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

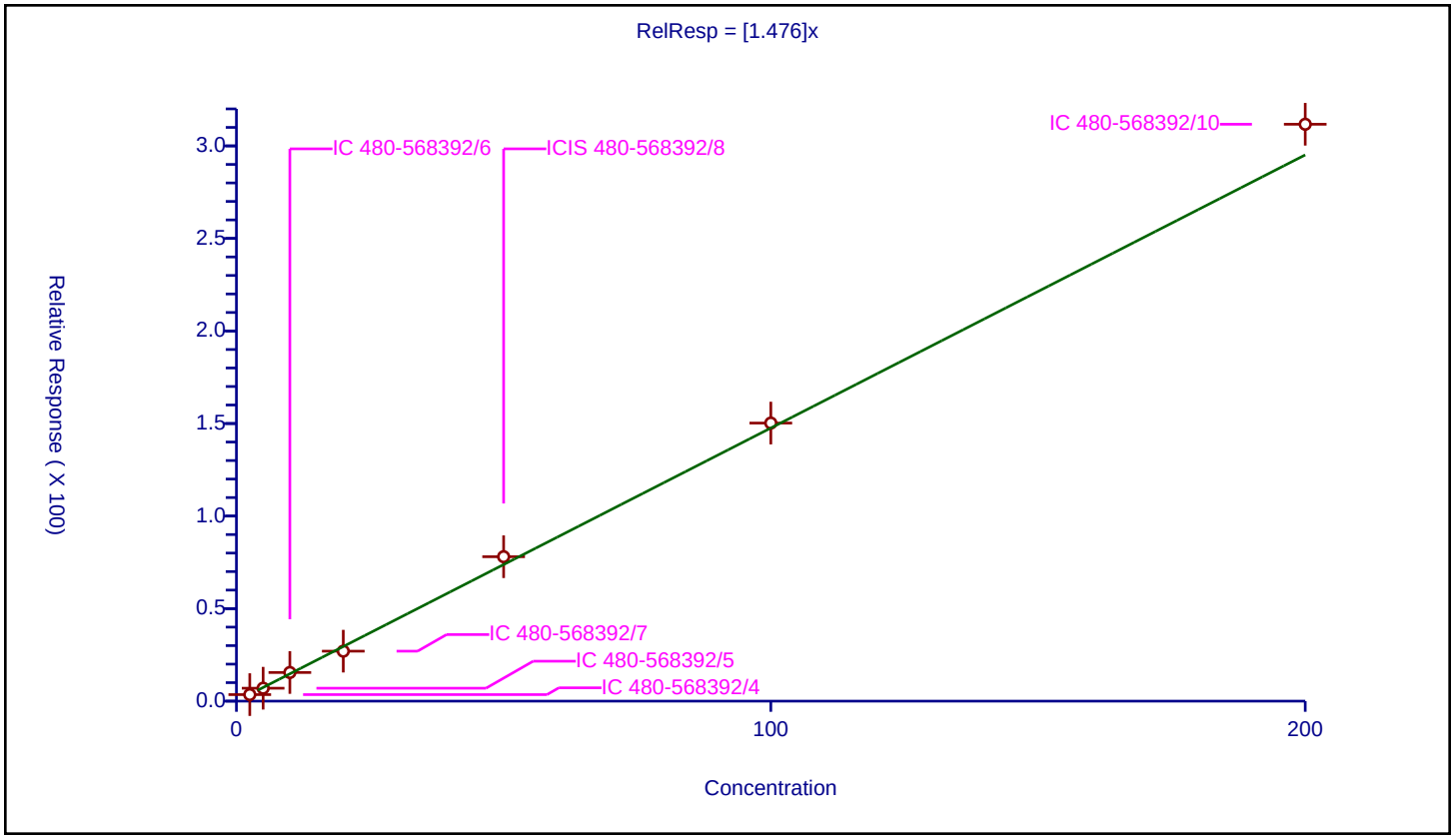
Curve Coefficients

Intercept:	0
Slope:	1.476

Error Coefficients

Standard Error:	714000
Relative Standard Error:	5.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	3.526782	50.0	216543.0	1.410713	Y
2	IC 480-568392/5	5.0	6.993442	50.0	219284.0	1.398688	Y
3	IC 480-568392/6	10.0	15.483413	50.0	223846.0	1.548341	Y
4	IC 480-568392/7	20.0	27.001556	50.0	226861.0	1.350078	Y
5	ICIS 480-568392/8	50.0	78.040536	50.0	238157.0	1.560811	Y
6	IC 480-568392/9	100.0	150.247731	50.0	242198.0	1.502477	Y
7	IC 480-568392/10	200.0	311.696978	50.0	246880.0	1.558485	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

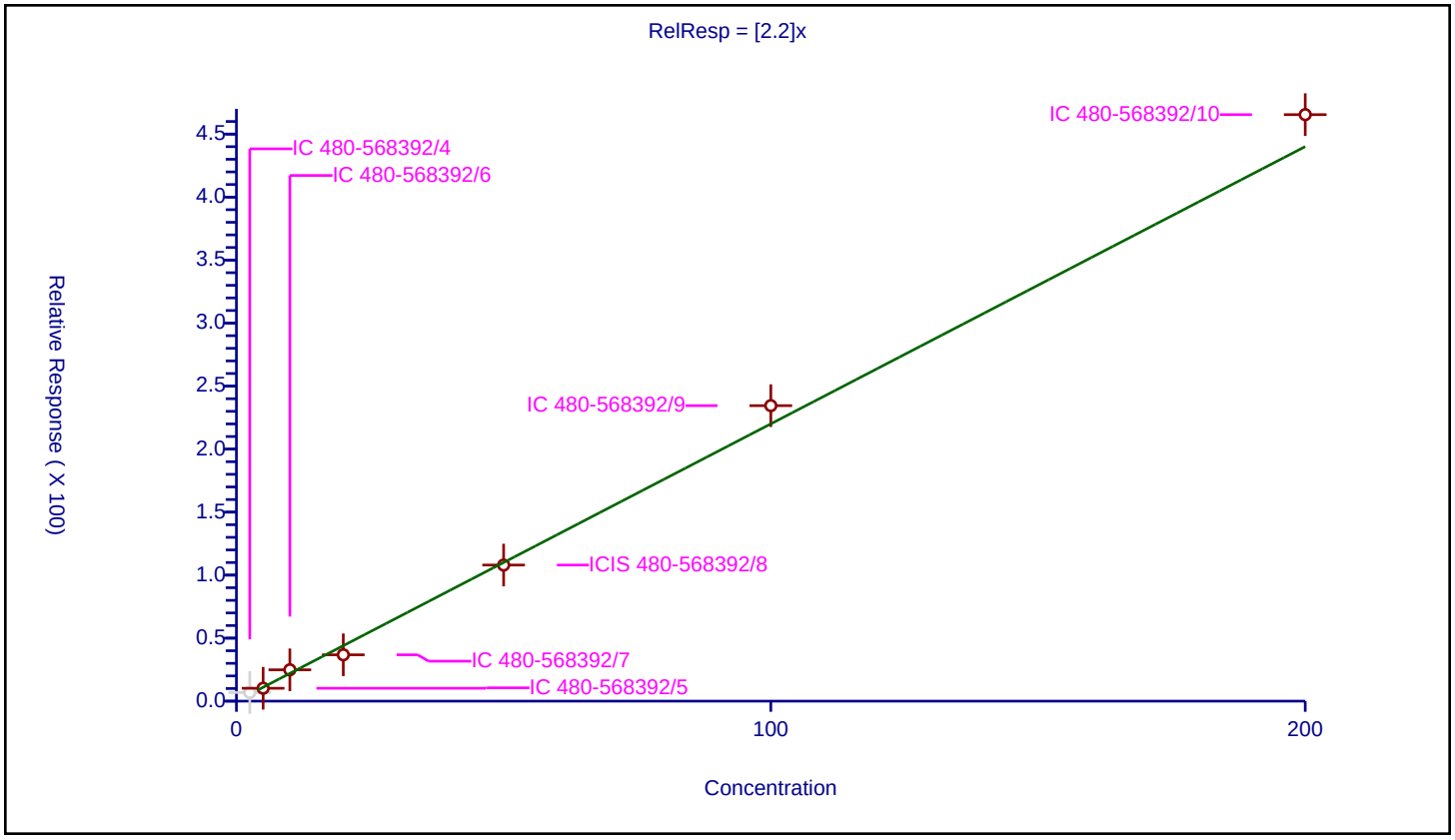
Curve Coefficients

Intercept:	0
Slope:	2.2

Error Coefficients

Standard Error:	1170000
Relative Standard Error:	10.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	6.864687	50.0	216543.0	2.745875	N
2	IC 480-568392/5	5.0	10.224412	50.0	219284.0	2.044882	Y
3	IC 480-568392/6	10.0	24.87268	50.0	223846.0	2.487268	Y
4	IC 480-568392/7	20.0	36.76833	50.0	226861.0	1.838416	Y
5	ICIS 480-568392/8	50.0	107.996196	50.0	238157.0	2.159924	Y
6	IC 480-568392/9	100.0	234.496362	50.0	242198.0	2.344964	Y
7	IC 480-568392/10	200.0	465.43989	50.0	246880.0	2.327199	Y



Calibration / Vinyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

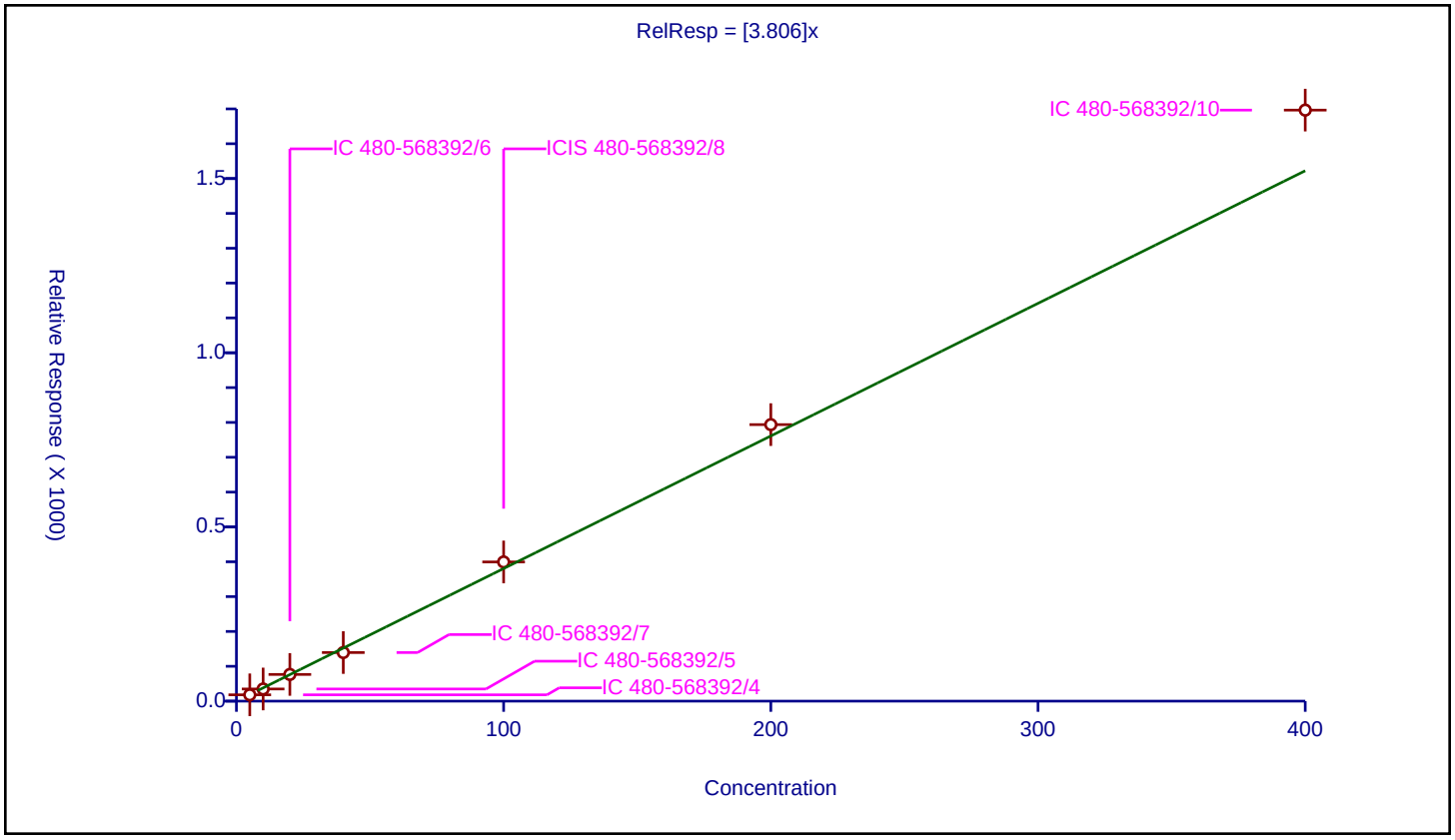
Curve Coefficients

Intercept:	0
Slope:	3.806

Error Coefficients

Standard Error:	3850000
Relative Standard Error:	7.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	5.0	18.155516	50.0	216543.0	3.631103	Y
2	IC 480-568392/5	10.0	34.875093	50.0	219284.0	3.487509	Y
3	IC 480-568392/6	20.0	76.622321	50.0	223846.0	3.831116	Y
4	IC 480-568392/7	40.0	139.501721	50.0	226861.0	3.487543	Y
5	ICIS 480-568392/8	100.0	399.533291	50.0	238157.0	3.995333	Y
6	IC 480-568392/9	200.0	793.717743	50.0	242198.0	3.968589	Y
7	IC 480-568392/10	400.0	1696.485945	50.0	246880.0	4.241215	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

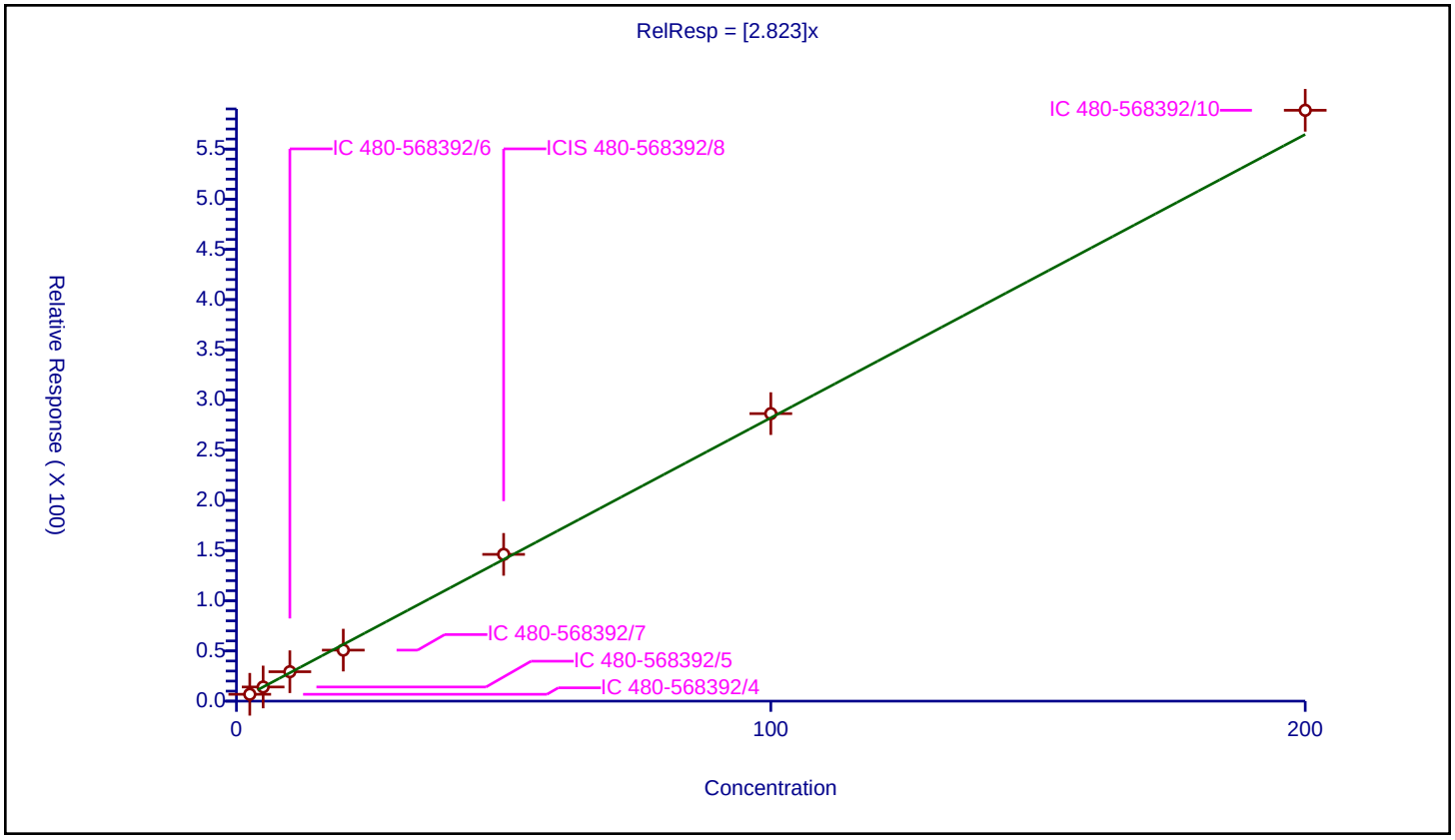
Curve Coefficients

Intercept:	0
Slope:	2.823

Error Coefficients

Standard Error:	1350000
Relative Standard Error:	5.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	6.836287	50.0	216543.0	2.734515	Y
2	IC 480-568392/5	5.0	14.1034	50.0	219284.0	2.82068	Y
3	IC 480-568392/6	10.0	29.31569	50.0	223846.0	2.931569	Y
4	IC 480-568392/7	20.0	50.82253	50.0	226861.0	2.541127	Y
5	ICIS 480-568392/8	50.0	146.22035	50.0	238157.0	2.924407	Y
6	IC 480-568392/9	100.0	286.437543	50.0	242198.0	2.864375	Y
7	IC 480-568392/10	200.0	588.622003	50.0	246880.0	2.94311	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

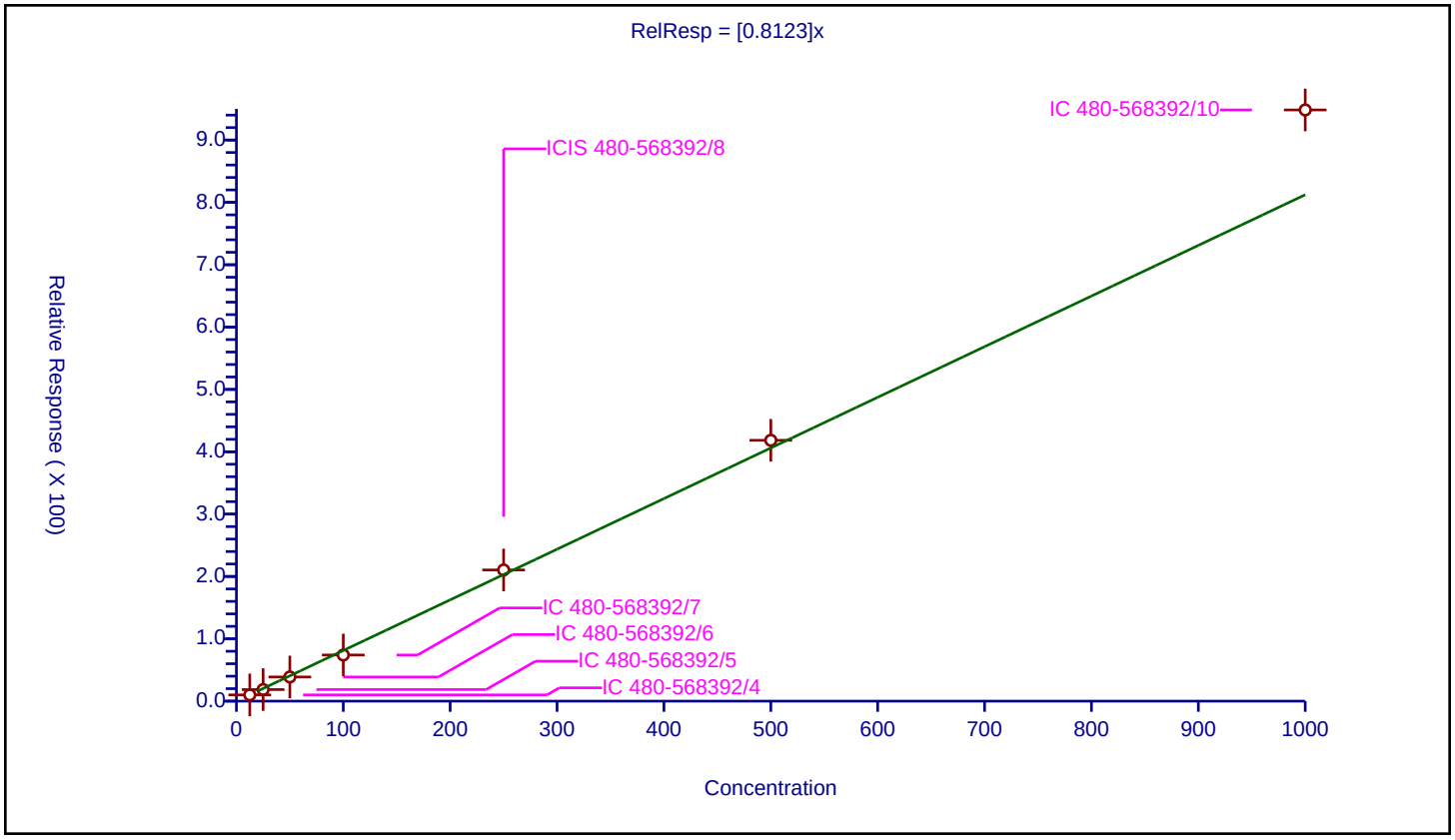
Curve Coefficients

Intercept:	0
Slope:	0.8123

Error Coefficients

Standard Error:	2130000
Relative Standard Error:	8.9
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	12.5	10.006327	50.0	216543.0	0.800506	Y
2	IC 480-568392/5	25.0	18.56565	50.0	219284.0	0.742626	Y
3	IC 480-568392/6	50.0	38.78604	50.0	223846.0	0.775721	Y
4	IC 480-568392/7	100.0	74.009195	50.0	226861.0	0.740092	Y
5	ICIS 480-568392/8	250.0	210.443531	50.0	238157.0	0.841774	Y
6	IC 480-568392/9	500.0	418.404776	50.0	242198.0	0.83681	Y
7	IC 480-568392/10	1000.0	948.298364	50.0	246880.0	0.948298	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

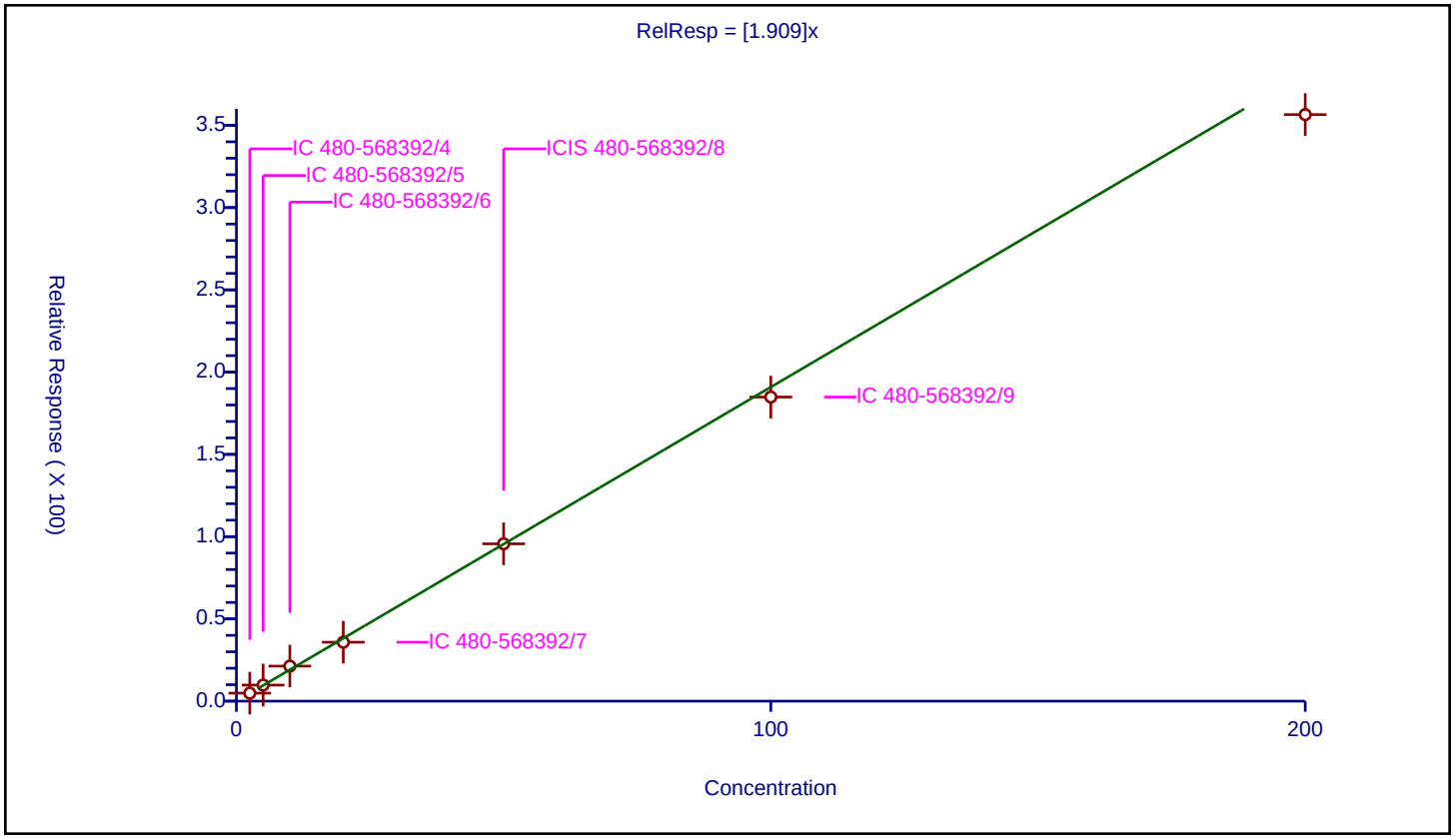
Curve Coefficients

Intercept:	0
Slope:	1.909

Error Coefficients

Standard Error:	831000
Relative Standard Error:	6.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	4.862314	50.0	216543.0	1.944925	Y
2	IC 480-568392/5	5.0	9.769067	50.0	219284.0	1.953813	Y
3	IC 480-568392/6	10.0	21.295444	50.0	223846.0	2.129544	Y
4	IC 480-568392/7	20.0	35.819951	50.0	226861.0	1.790998	Y
5	ICIS 480-568392/8	50.0	95.631243	50.0	238157.0	1.912625	Y
6	IC 480-568392/9	100.0	184.851031	50.0	242198.0	1.84851	Y
7	IC 480-568392/10	200.0	356.542247	50.0	246880.0	1.782711	Y



Calibration / cis-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

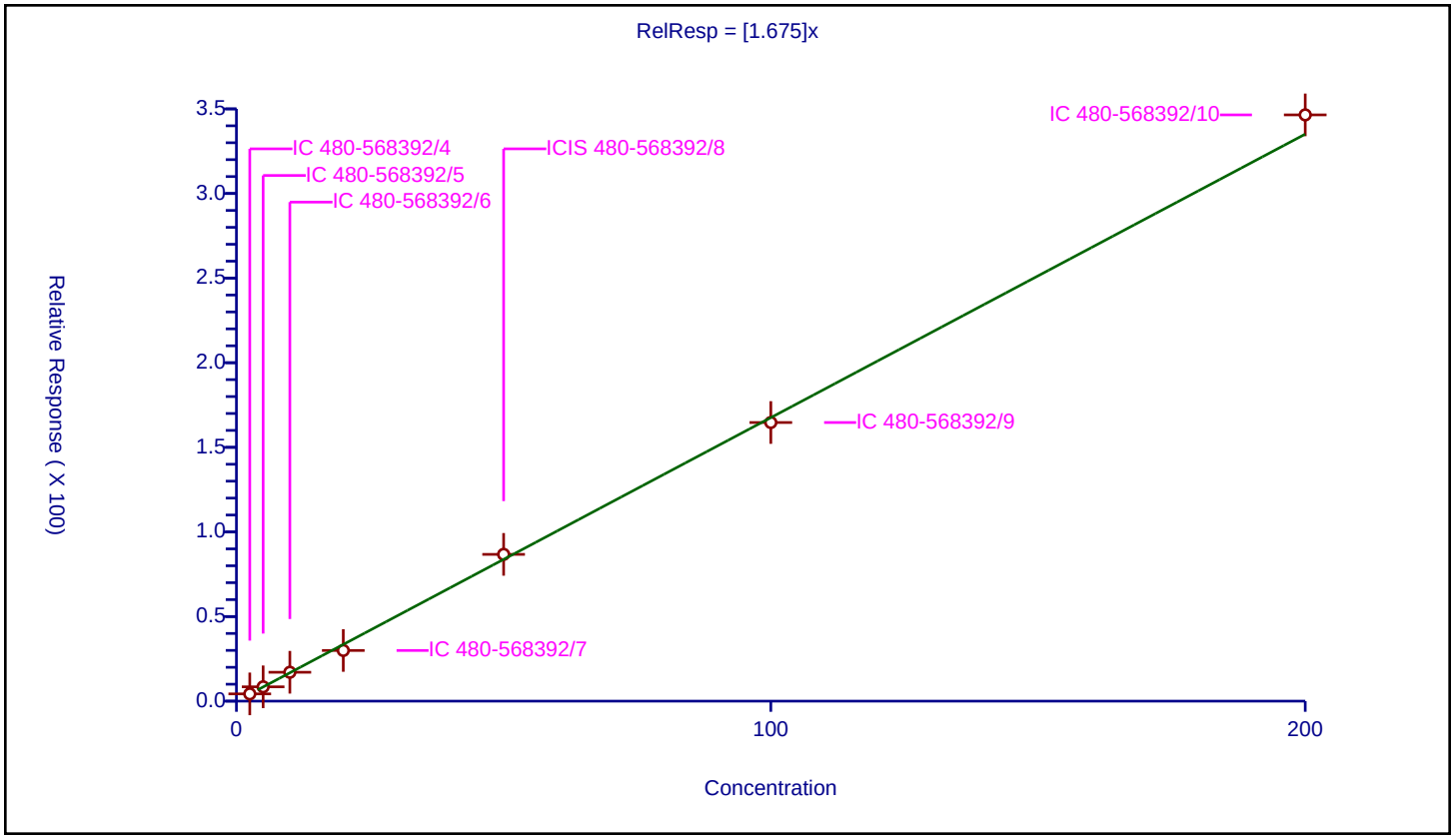
Curve Coefficients

Intercept:	0
Slope:	1.675

Error Coefficients

Standard Error:	791000
Relative Standard Error:	5.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	4.295452	50.0	216543.0	1.718181	Y
2	IC 480-568392/5	5.0	8.460034	50.0	219284.0	1.692007	Y
3	IC 480-568392/6	10.0	17.067314	50.0	223846.0	1.706731	Y
4	IC 480-568392/7	20.0	29.942564	50.0	226861.0	1.497128	Y
5	ICIS 480-568392/8	50.0	86.735641	50.0	238157.0	1.734713	Y
6	IC 480-568392/9	100.0	164.670228	50.0	242198.0	1.646702	Y
7	IC 480-568392/10	200.0	346.465287	50.0	246880.0	1.732326	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

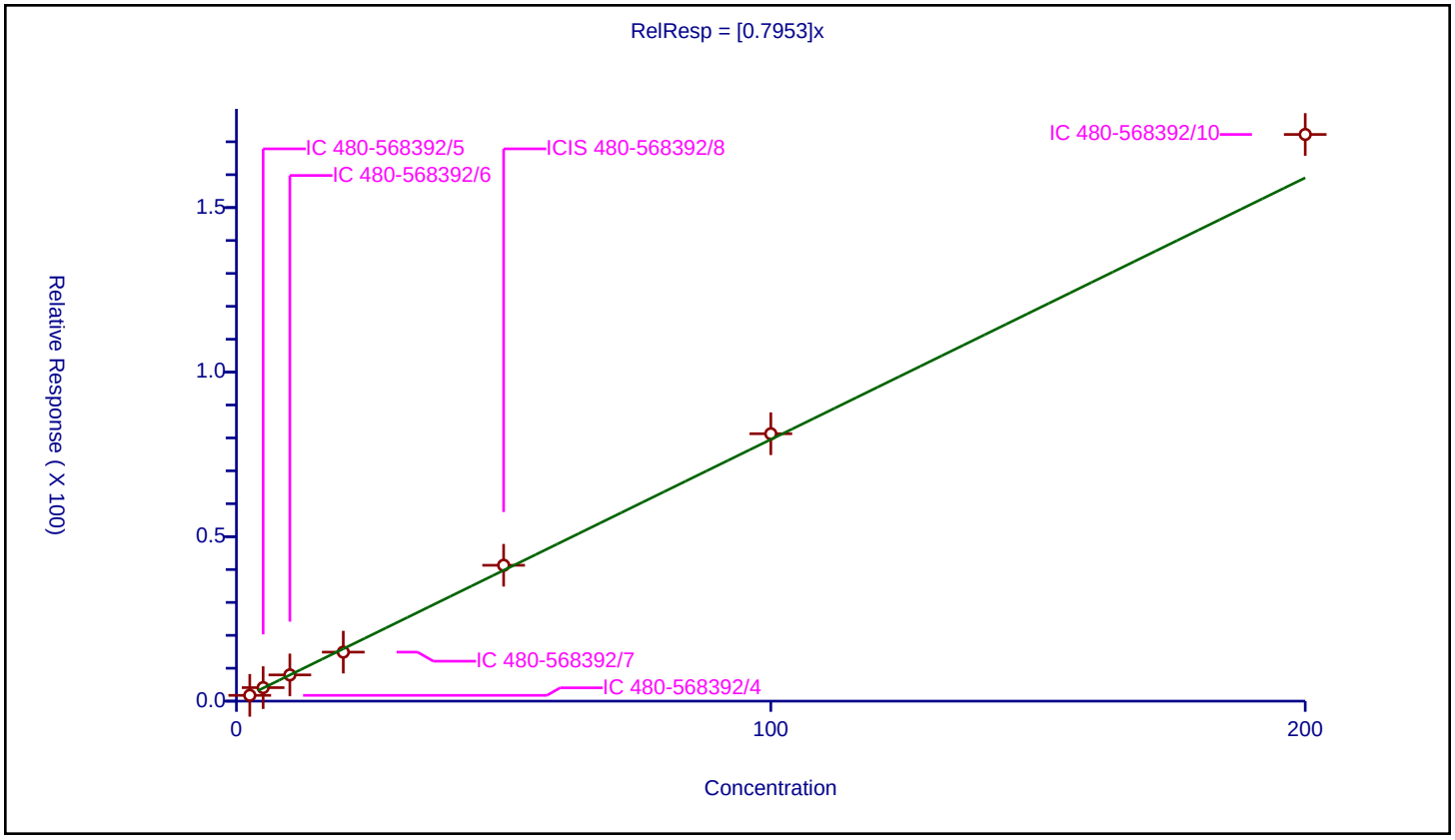
Curve Coefficients

Intercept:	0
Slope:	0.7953

Error Coefficients

Standard Error:	392000
Relative Standard Error:	6.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	1.760851	50.0	216543.0	0.70434	Y
2	IC 480-568392/5	5.0	4.107687	50.0	219284.0	0.821537	Y
3	IC 480-568392/6	10.0	7.965521	50.0	223846.0	0.796552	Y
4	IC 480-568392/7	20.0	14.896567	50.0	226861.0	0.744828	Y
5	ICIS 480-568392/8	50.0	41.291879	50.0	238157.0	0.825838	Y
6	IC 480-568392/9	100.0	81.271728	50.0	242198.0	0.812717	Y
7	IC 480-568392/10	200.0	172.229018	50.0	246880.0	0.861145	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

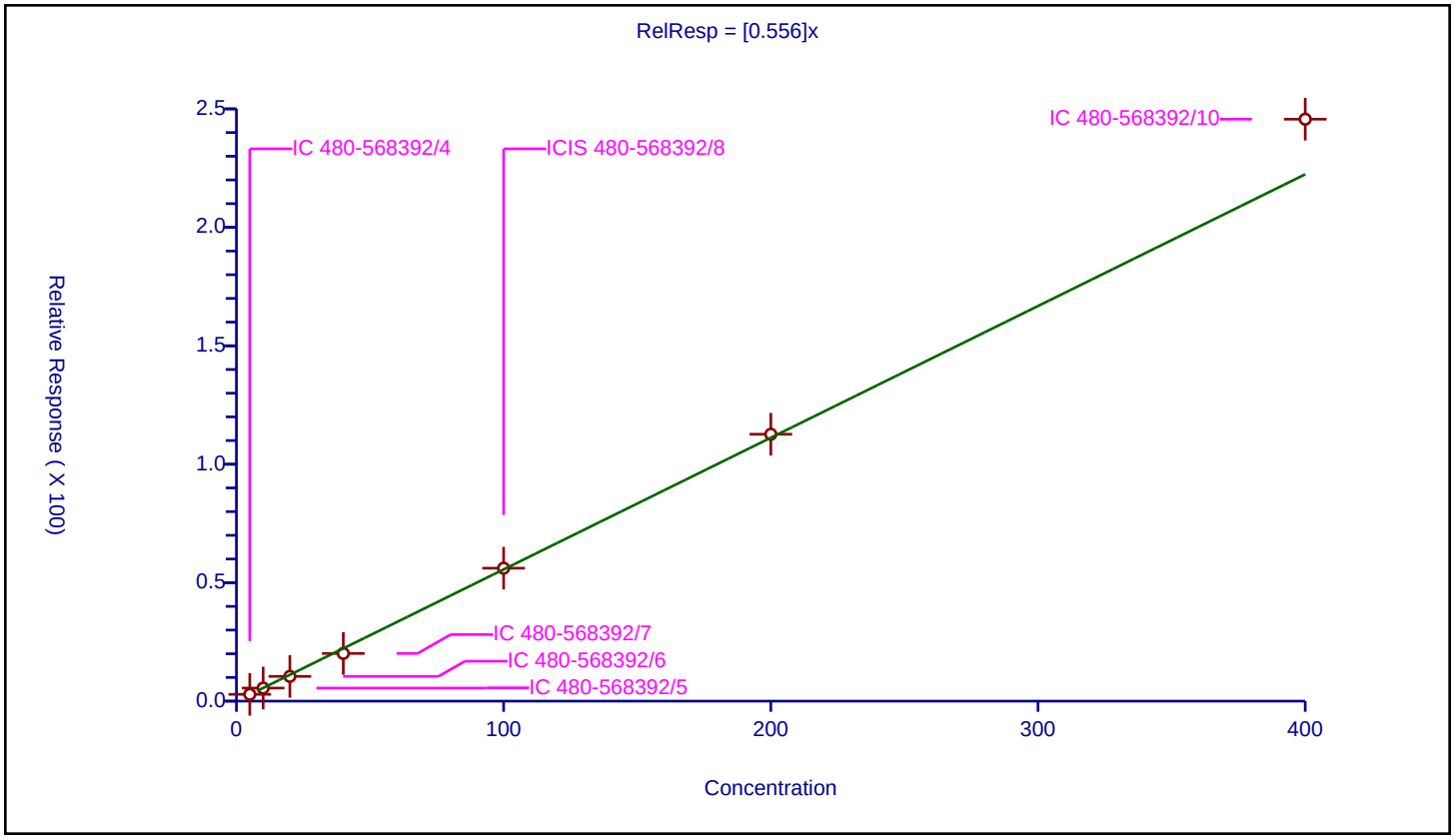
Curve Coefficients

Intercept:	0
Slope:	0.556

Error Coefficients

Standard Error:	555000
Relative Standard Error:	6.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	5.0	2.87795	50.0	216543.0	0.57559	Y
2	IC 480-568392/5	10.0	5.518642	50.0	219284.0	0.551864	Y
3	IC 480-568392/6	20.0	10.448701	50.0	223846.0	0.522435	Y
4	IC 480-568392/7	40.0	20.127523	50.0	226861.0	0.503188	Y
5	ICIS 480-568392/8	100.0	56.117393	50.0	238157.0	0.561174	Y
6	IC 480-568392/9	200.0	112.670831	50.0	242198.0	0.563354	Y
7	IC 480-568392/10	400.0	245.656999	50.0	246880.0	0.614142	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

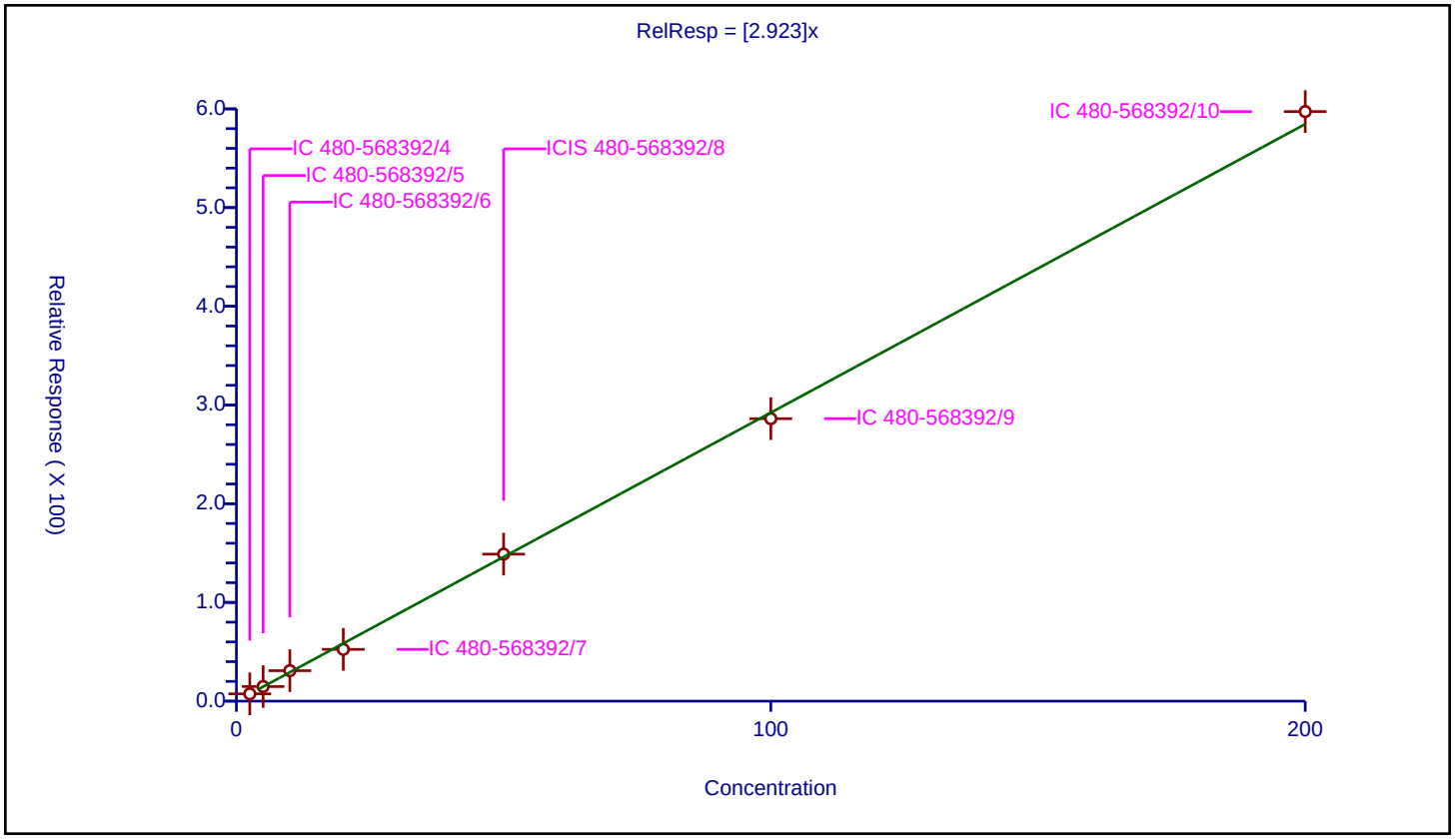
Curve Coefficients

Intercept:	0
Slope:	2.923

Error Coefficients

Standard Error:	1370000
Relative Standard Error:	5.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	7.398992	50.0	216543.0	2.959597	Y
2	IC 480-568392/5	5.0	14.811386	50.0	219284.0	2.962277	Y
3	IC 480-568392/6	10.0	30.891774	50.0	223846.0	3.089177	Y
4	IC 480-568392/7	20.0	52.44004	50.0	226861.0	2.622002	Y
5	ICIS 480-568392/8	50.0	148.931167	50.0	238157.0	2.978623	Y
6	IC 480-568392/9	100.0	286.161735	50.0	242198.0	2.861617	Y
7	IC 480-568392/10	200.0	597.286738	50.0	246880.0	2.986434	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

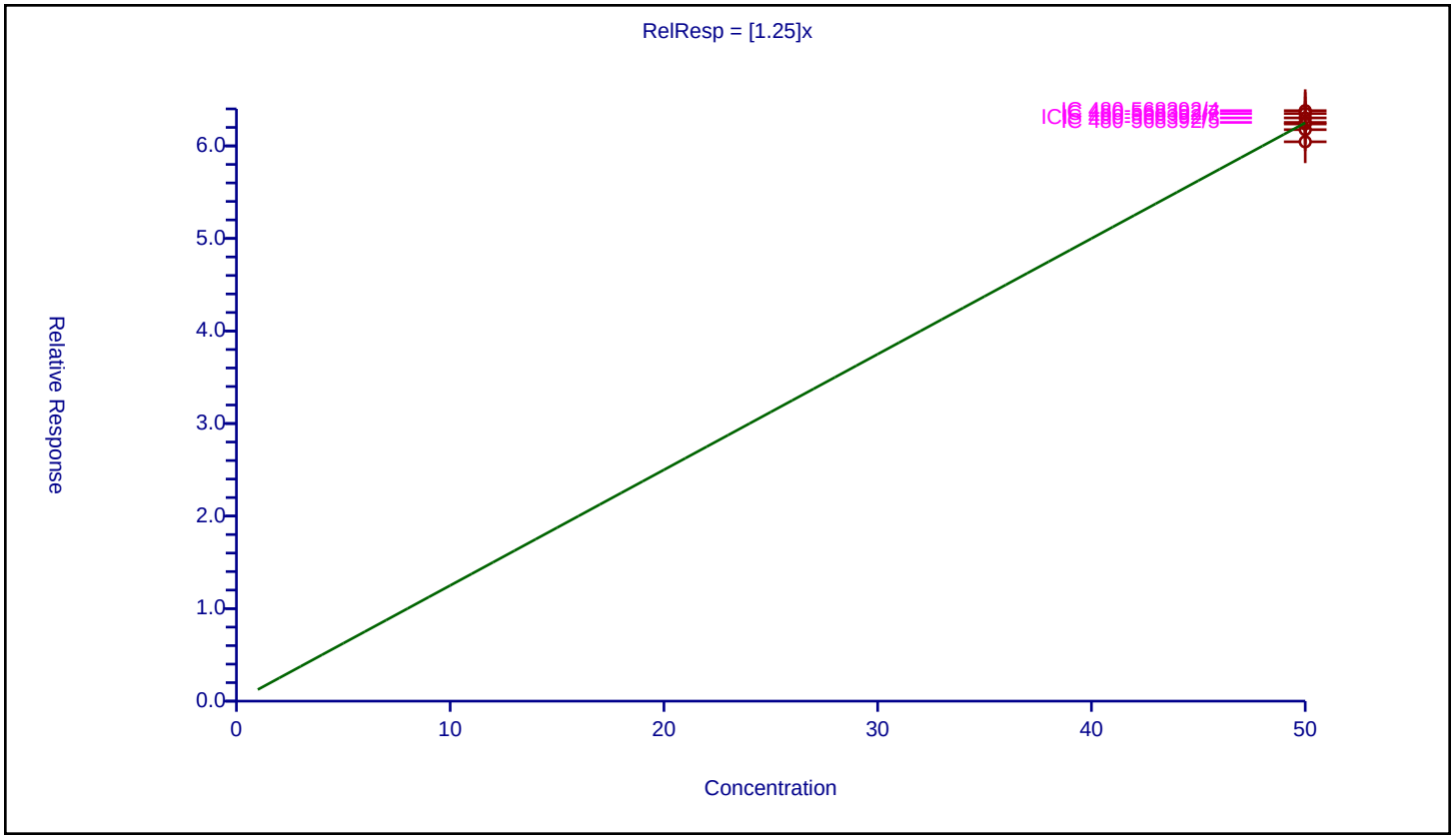
Curve Coefficients

Intercept:	0
Slope:	1.25

Error Coefficients

Standard Error:	311000
Relative Standard Error:	1.8
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	50.0	63.809036	50.0	216543.0	1.276181	Y
2	IC 480-568392/5	50.0	62.538078	50.0	219284.0	1.250762	Y
3	IC 480-568392/6	50.0	62.367655	50.0	223846.0	1.247353	Y
4	IC 480-568392/7	50.0	63.500558	50.0	226861.0	1.270011	Y
5	ICIS 480-568392/8	50.0	63.025651	50.0	238157.0	1.260513	Y
6	IC 480-568392/9	50.0	60.446618	50.0	242198.0	1.208932	Y
7	IC 480-568392/10	50.0	61.753889	50.0	246880.0	1.235078	Y



Calibration / 1,1,1-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

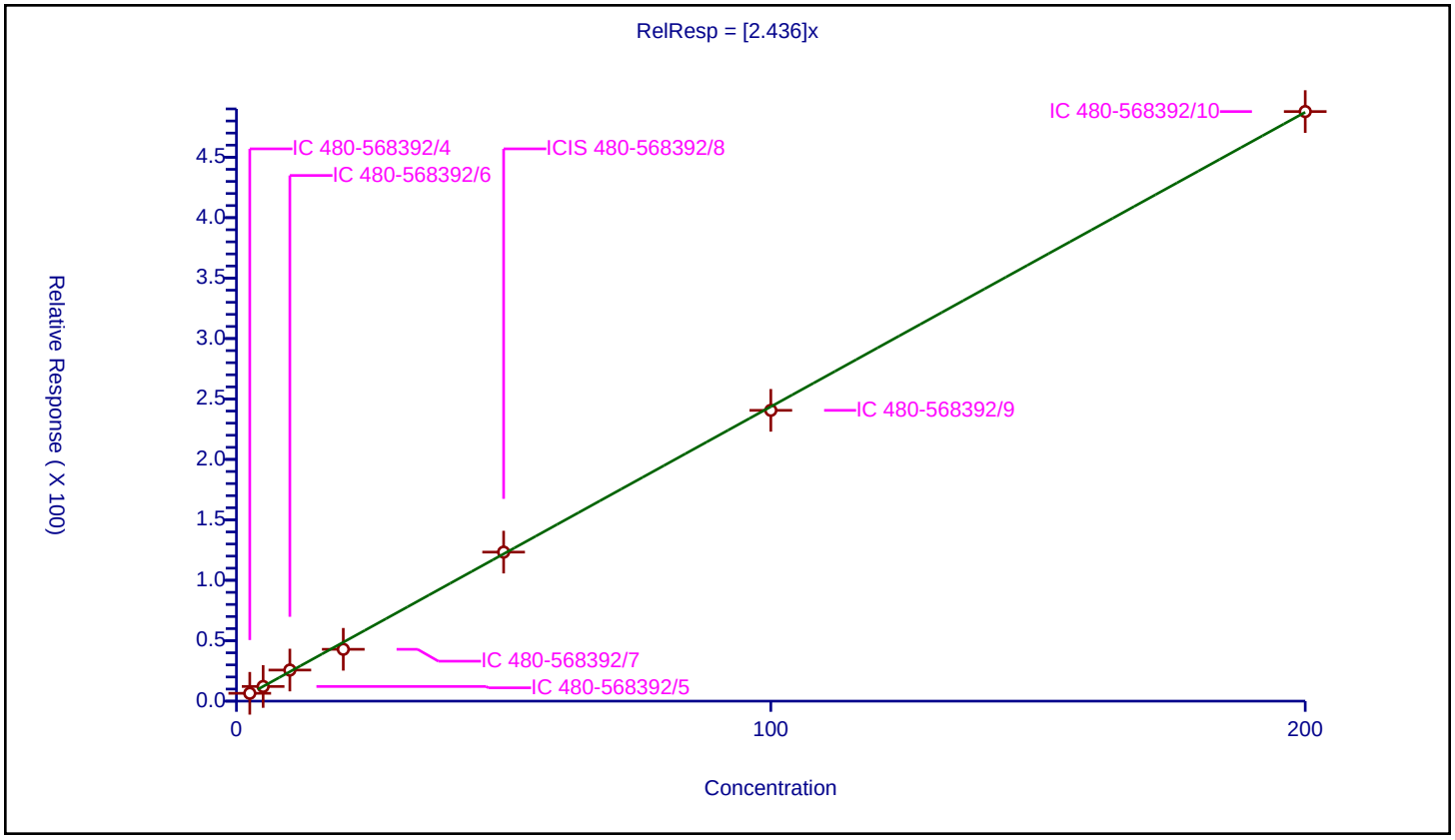
Curve Coefficients

Intercept:	0
Slope:	2.436

Error Coefficients

Standard Error:	1120000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	6.494091	50.0	216543.0	2.597636	Y
2	IC 480-568392/5	5.0	12.135404	50.0	219284.0	2.427081	Y
3	IC 480-568392/6	10.0	25.729073	50.0	223846.0	2.572907	Y
4	IC 480-568392/7	20.0	42.903364	50.0	226861.0	2.145168	Y
5	ICIS 480-568392/8	50.0	123.310253	50.0	238157.0	2.466205	Y
6	IC 480-568392/9	100.0	240.59695	50.0	242198.0	2.405969	Y
7	IC 480-568392/10	200.0	487.798121	50.0	246880.0	2.438991	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

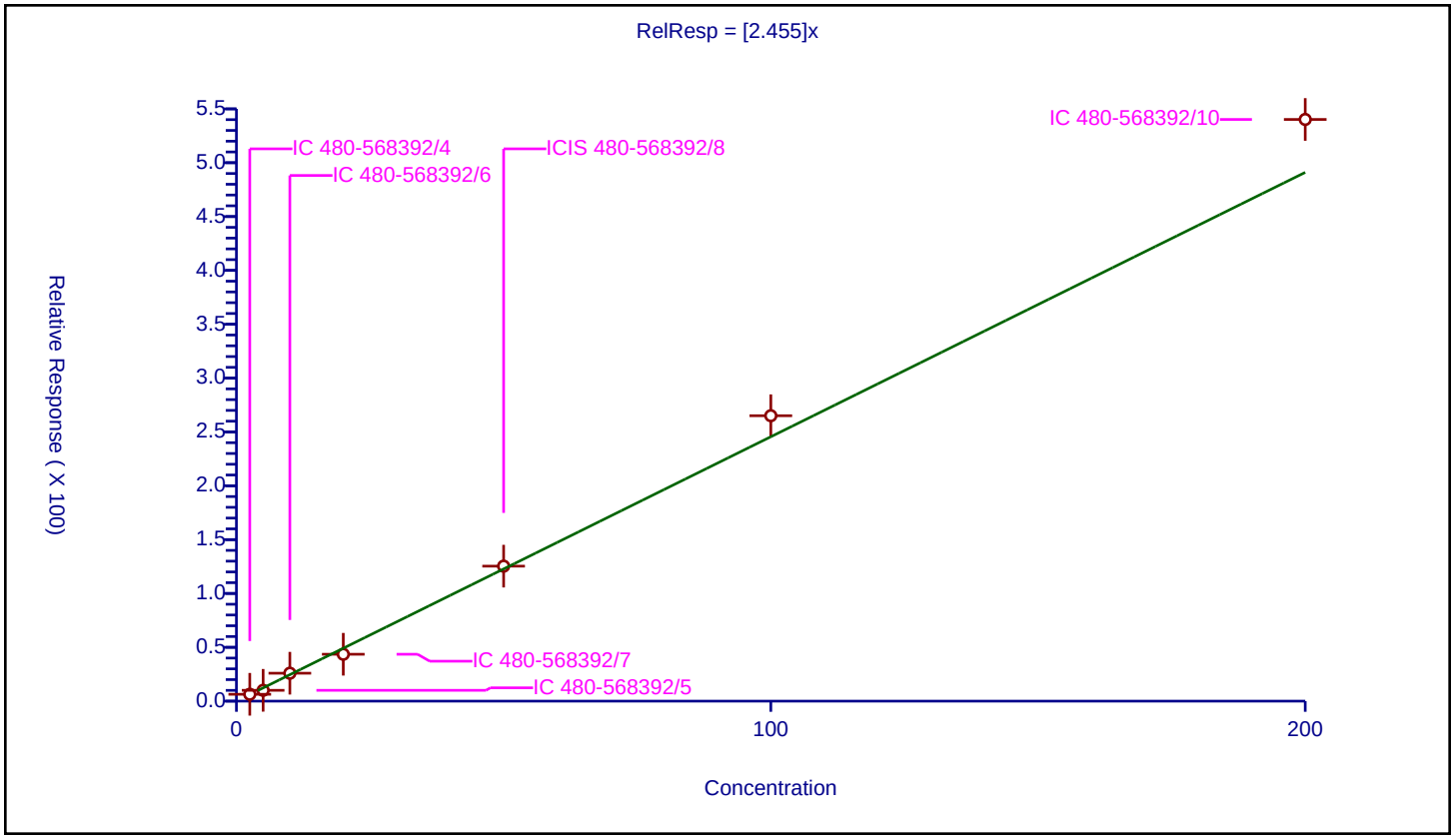
Curve Coefficients

Intercept:	0
Slope:	2.455

Error Coefficients

Standard Error:	1240000
Relative Standard Error:	10.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	6.367327	50.0	216543.0	2.546931	Y
2	IC 480-568392/5	5.0	10.052717	50.0	219284.0	2.010543	Y
3	IC 480-568392/6	10.0	25.931667	50.0	223846.0	2.593167	Y
4	IC 480-568392/7	20.0	43.54164	50.0	226861.0	2.177082	Y
5	ICIS 480-568392/8	50.0	125.370869	50.0	238157.0	2.507417	Y
6	IC 480-568392/9	100.0	265.058341	50.0	242198.0	2.650583	Y
7	IC 480-568392/10	200.0	540.170731	50.0	246880.0	2.700854	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

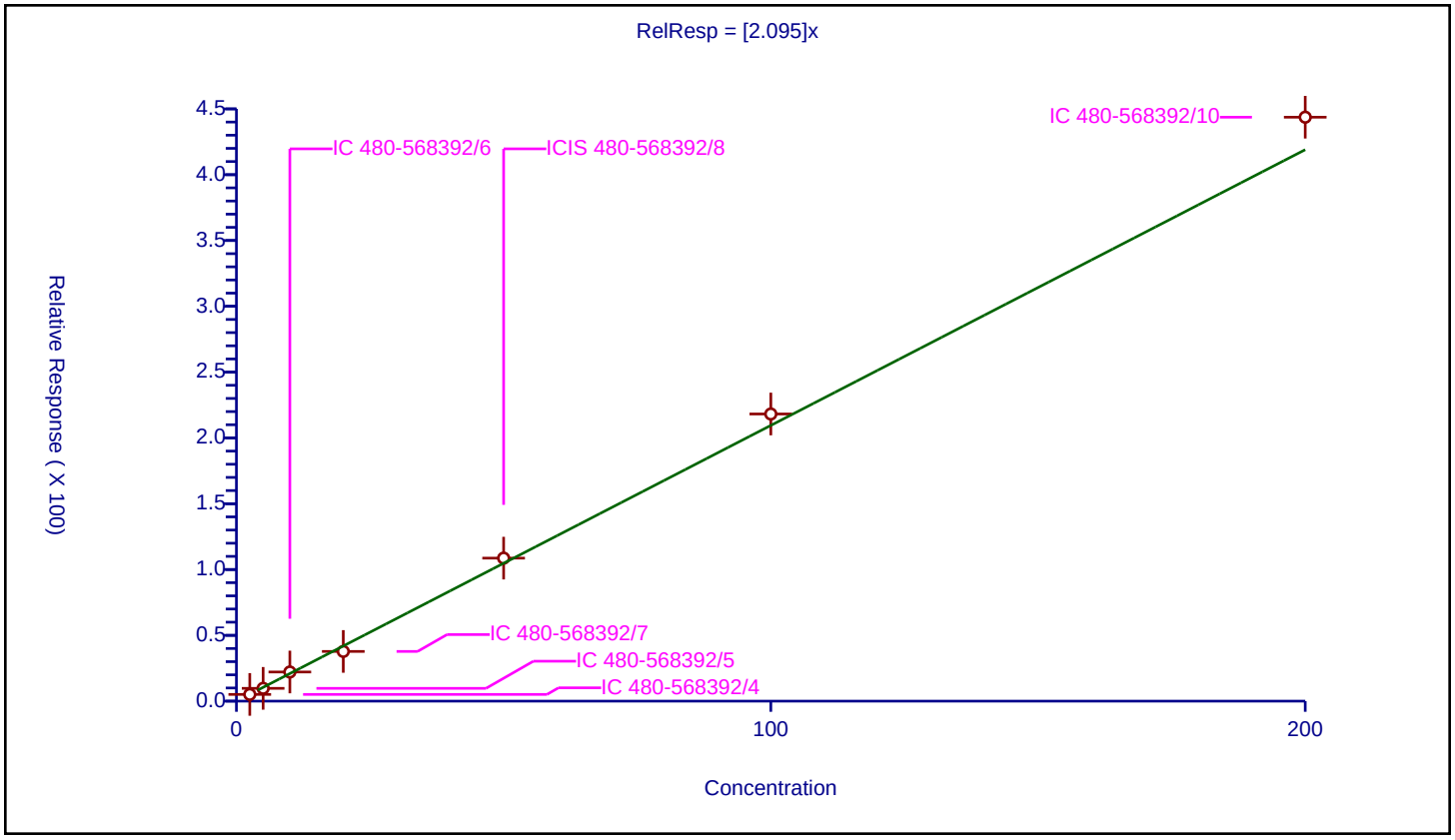
Curve Coefficients

Intercept:	0
Slope:	2.095

Error Coefficients

Standard Error:	1020000
Relative Standard Error:	6.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	5.106838	50.0	216543.0	2.042735	Y
2	IC 480-568392/5	5.0	9.722324	50.0	219284.0	1.944465	Y
3	IC 480-568392/6	10.0	22.156527	50.0	223846.0	2.215653	Y
4	IC 480-568392/7	20.0	37.77335	50.0	226861.0	1.888668	Y
5	ICIS 480-568392/8	50.0	108.656894	50.0	238157.0	2.173138	Y
6	IC 480-568392/9	100.0	218.181818	50.0	242198.0	2.181818	Y
7	IC 480-568392/10	200.0	443.680938	50.0	246880.0	2.218405	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

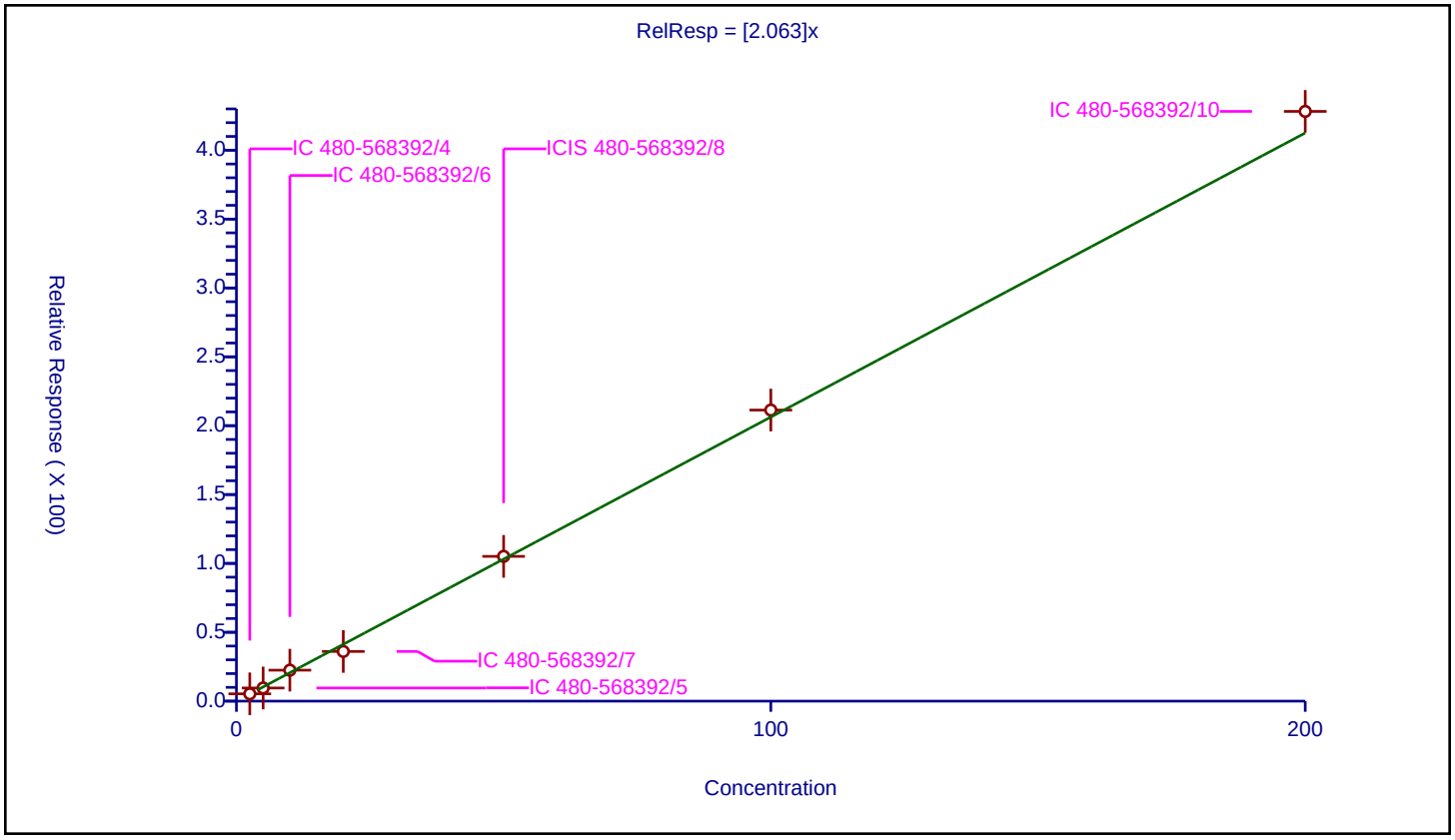
Curve Coefficients

Intercept:	0
Slope:	2.063

Error Coefficients

Standard Error:	984000
Relative Standard Error:	7.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	5.304489	50.0	216543.0	2.121796	Y
2	IC 480-568392/5	5.0	9.548804	50.0	219284.0	1.909761	Y
3	IC 480-568392/6	10.0	22.47304	50.0	223846.0	2.247304	Y
4	IC 480-568392/7	20.0	36.072088	50.0	226861.0	1.803604	Y
5	ICIS 480-568392/8	50.0	105.106085	50.0	238157.0	2.102122	Y
6	IC 480-568392/9	100.0	211.321935	50.0	242198.0	2.113219	Y
7	IC 480-568392/10	200.0	428.190619	50.0	246880.0	2.140953	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

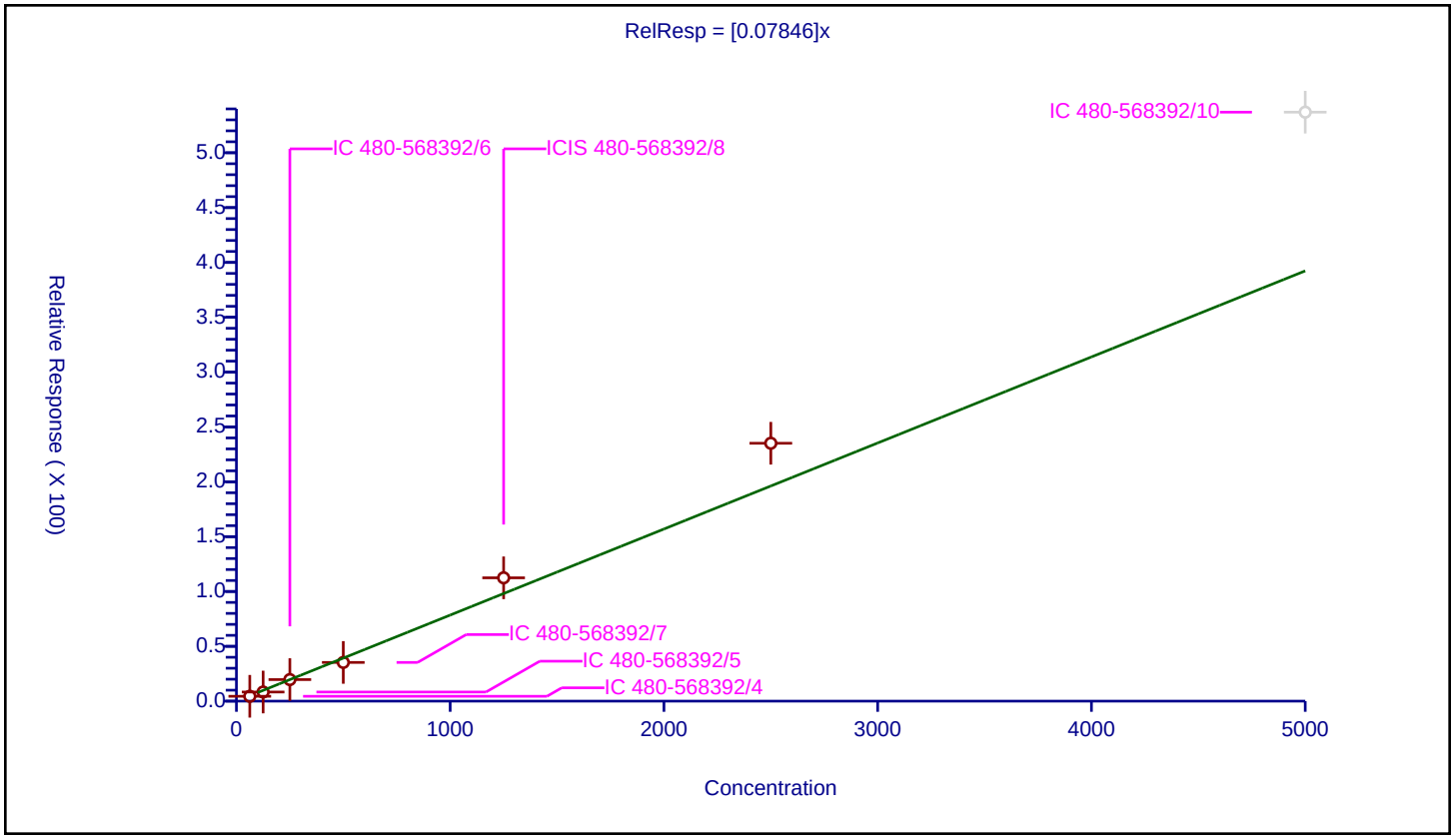
Curve Coefficients

Intercept:	0
Slope:	0.07846

Error Coefficients

Standard Error:	569000
Relative Standard Error:	14.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.972

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	62.5	4.436994	50.0	216543.0	0.070992	Y
2	IC 480-568392/5	125.0	8.320717	50.0	219284.0	0.066566	Y
3	IC 480-568392/6	250.0	19.651457	50.0	223846.0	0.078606	Y
4	IC 480-568392/7	500.0	35.293858	50.0	226861.0	0.070588	Y
5	ICIS 480-568392/8	1250.0	112.455859	50.0	238157.0	0.089965	Y
6	IC 480-568392/9	2500.0	235.136541	50.0	242198.0	0.094055	Y
7	IC 480-568392/10	5000.0	537.02082	50.0	246880.0	0.107404	N



Calibration / 1,2-Dichloroethane-d4 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

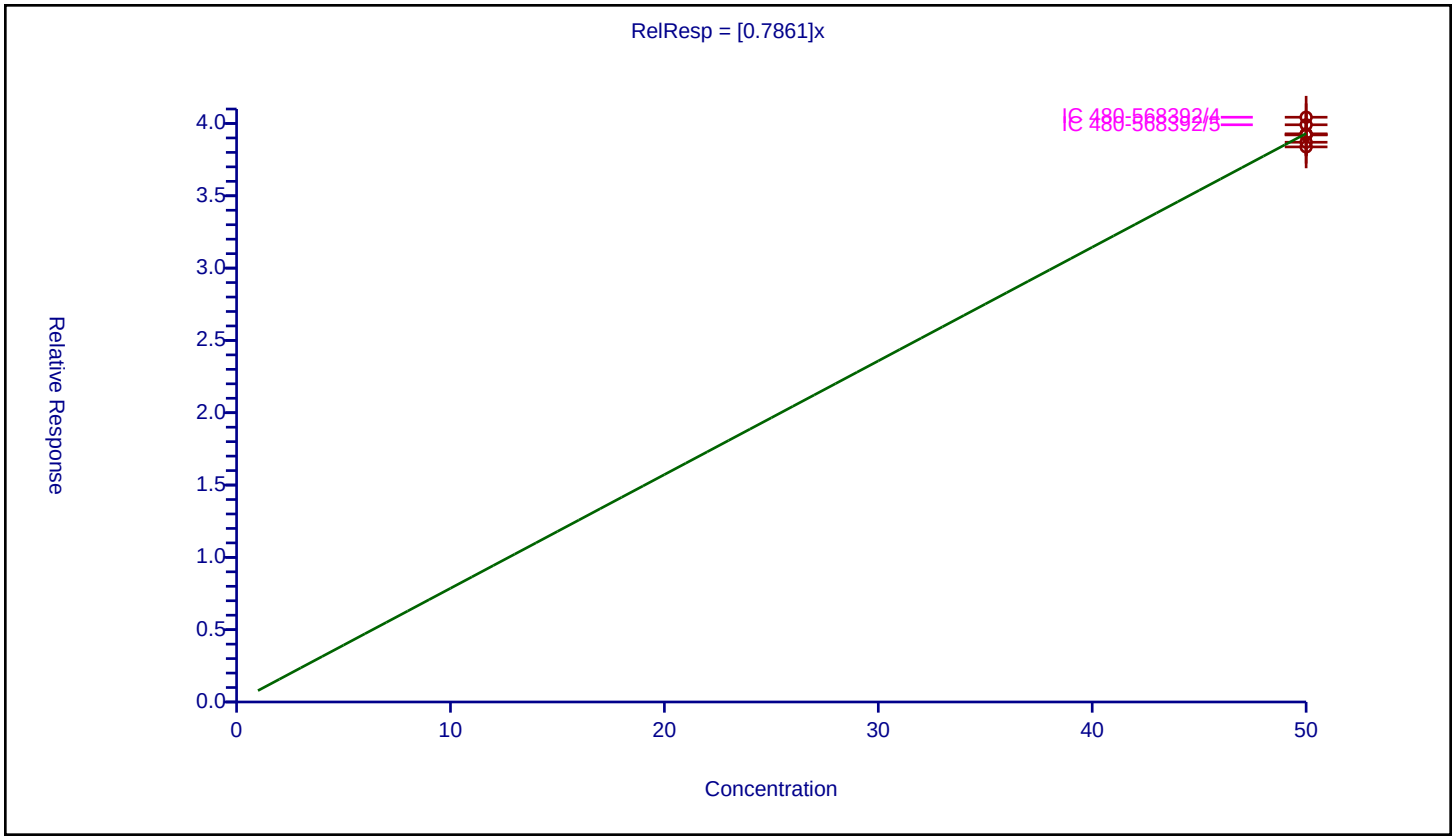
Curve Coefficients

Intercept:	0
Slope:	0.7861

Error Coefficients

Standard Error:	196000
Relative Standard Error:	1.8
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	50.0	40.431462	50.0	216543.0	0.808629	Y
2	IC 480-568392/5	50.0	39.909889	50.0	219284.0	0.798198	Y
3	IC 480-568392/6	50.0	38.702054	50.0	223846.0	0.774041	Y
4	IC 480-568392/7	50.0	39.285289	50.0	226861.0	0.785706	Y
5	ICIS 480-568392/8	50.0	39.212578	50.0	238157.0	0.784252	Y
6	IC 480-568392/9	50.0	38.380375	50.0	242198.0	0.767607	Y
7	IC 480-568392/10	50.0	39.221079	50.0	246880.0	0.784422	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

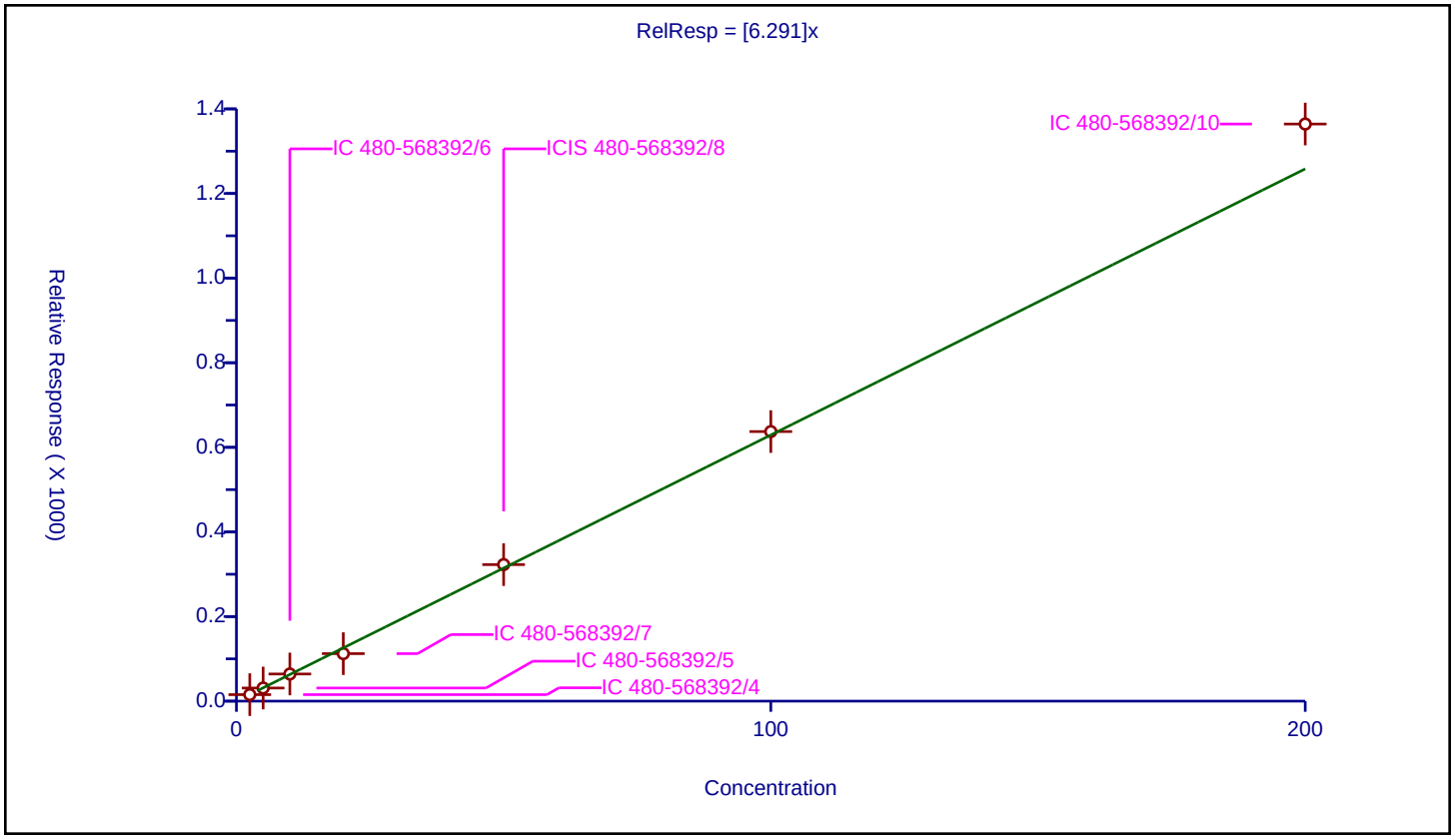
Curve Coefficients

Intercept:	0
Slope:	6.291

Error Coefficients

Standard Error:	3100000
Relative Standard Error:	5.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	15.387706	50.0	216543.0	6.155082	Y
2	IC 480-568392/5	5.0	30.995877	50.0	219284.0	6.199175	Y
3	IC 480-568392/6	10.0	64.199271	50.0	223846.0	6.419927	Y
4	IC 480-568392/7	20.0	112.294533	50.0	226861.0	5.614727	Y
5	ICIS 480-568392/8	50.0	322.770483	50.0	238157.0	6.45541	Y
6	IC 480-568392/9	100.0	637.222851	50.0	242198.0	6.372229	Y
7	IC 480-568392/10	200.0	1364.257129	50.0	246880.0	6.821286	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

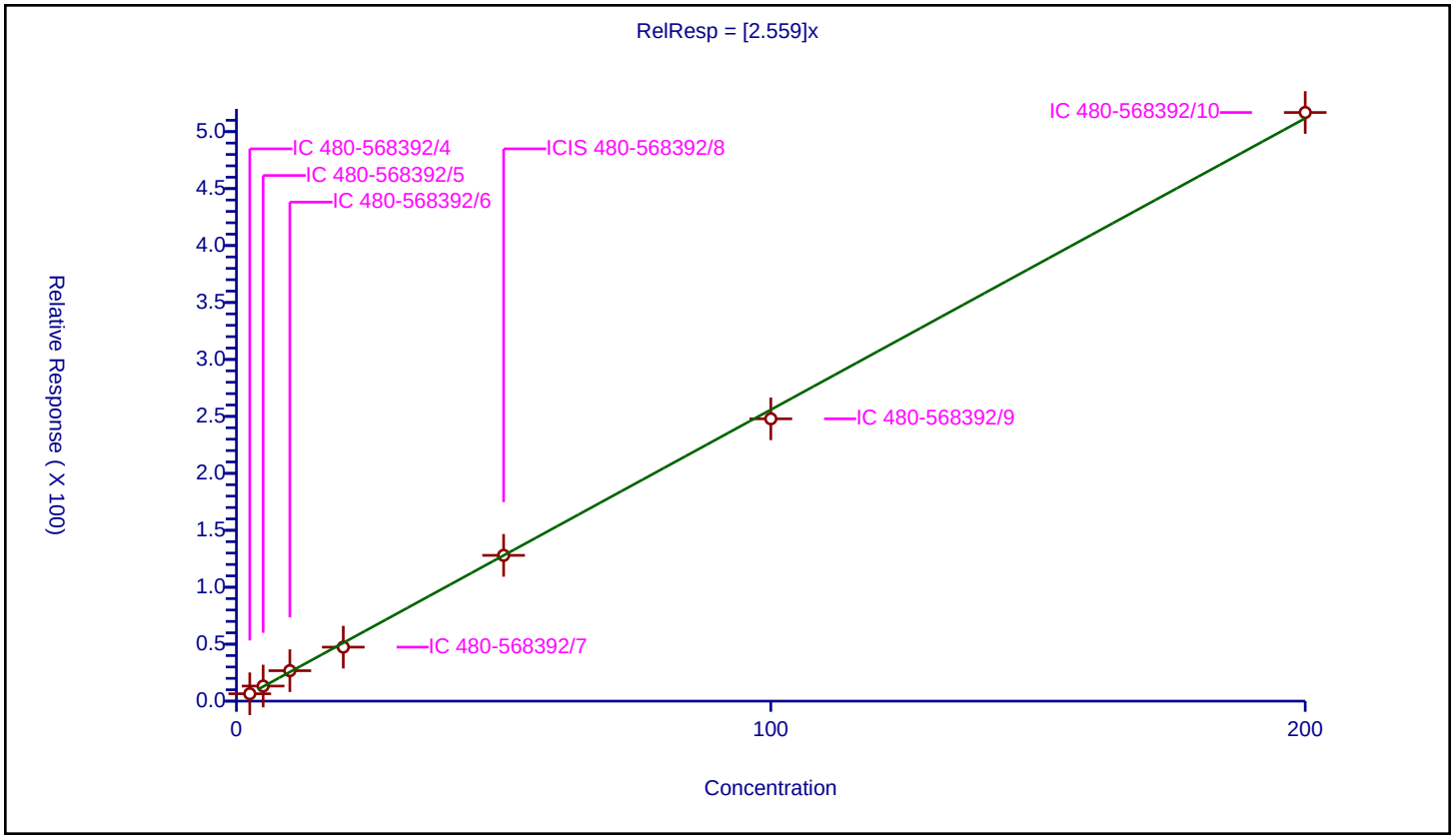
Curve Coefficients

Intercept:	0
Slope:	2.559

Error Coefficients

Standard Error:	1180000
Relative Standard Error:	4.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	6.490397	50.0	216543.0	2.596159	Y
2	IC 480-568392/5	5.0	13.236716	50.0	219284.0	2.647343	Y
3	IC 480-568392/6	10.0	26.735568	50.0	223846.0	2.673557	Y
4	IC 480-568392/7	20.0	47.421549	50.0	226861.0	2.371077	Y
5	ICIS 480-568392/8	50.0	127.98763	50.0	238157.0	2.559753	Y
6	IC 480-568392/9	100.0	247.88644	50.0	242198.0	2.478864	Y
7	IC 480-568392/10	200.0	516.850899	50.0	246880.0	2.584254	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

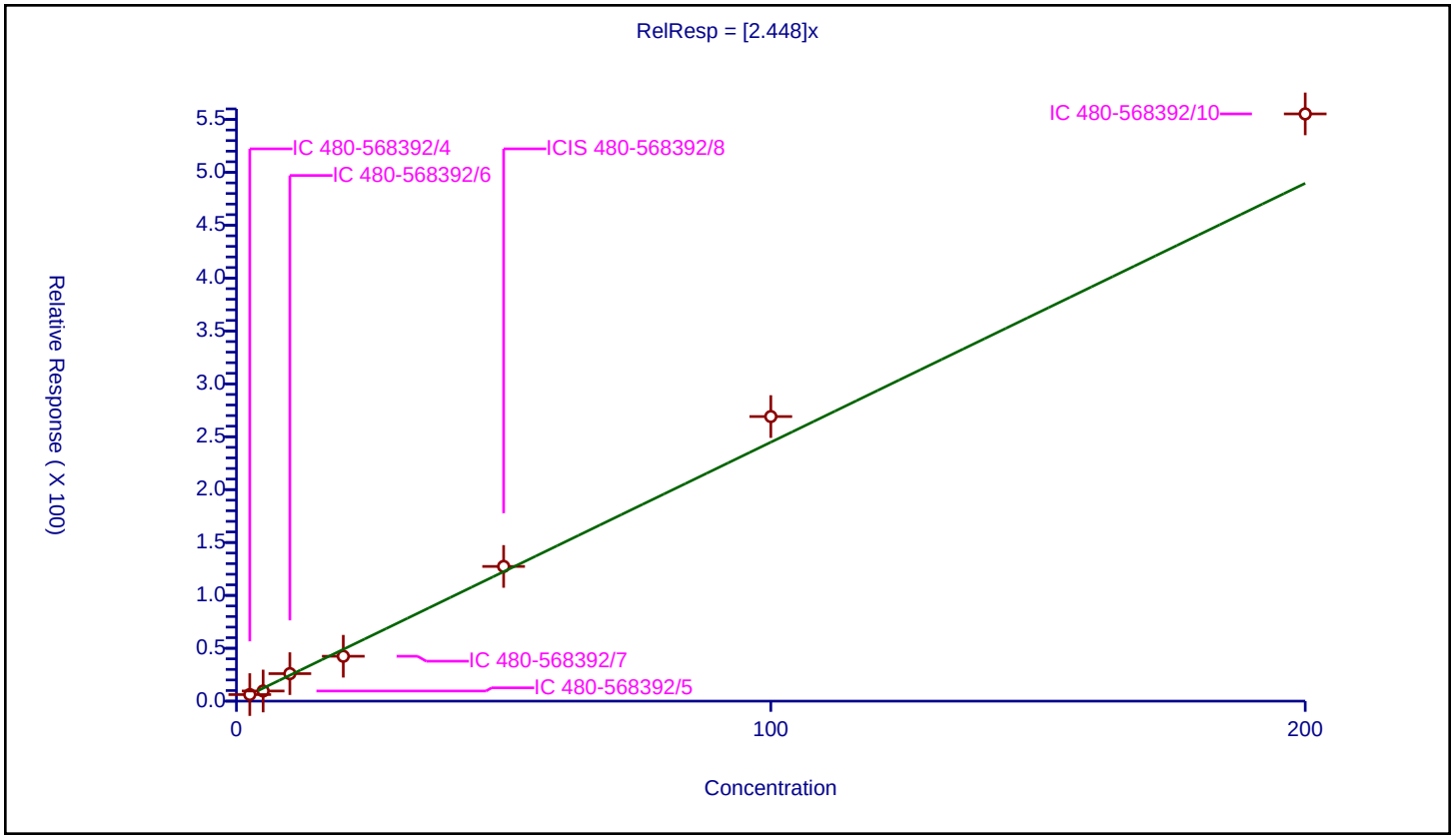
Curve Coefficients

Intercept:	0
Slope:	2.448

Error Coefficients

Standard Error:	1270000
Relative Standard Error:	12.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	6.208236	50.0	216543.0	2.483294	Y
2	IC 480-568392/5	5.0	9.580726	50.0	219284.0	1.916145	Y
3	IC 480-568392/6	10.0	26.005602	50.0	223846.0	2.60056	Y
4	IC 480-568392/7	20.0	42.449121	50.0	226861.0	2.122456	Y
5	ICIS 480-568392/8	50.0	127.367241	50.0	238157.0	2.547345	Y
6	IC 480-568392/9	100.0	269.095327	50.0	242198.0	2.690953	Y
7	IC 480-568392/10	200.0	555.254577	50.0	246880.0	2.776273	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

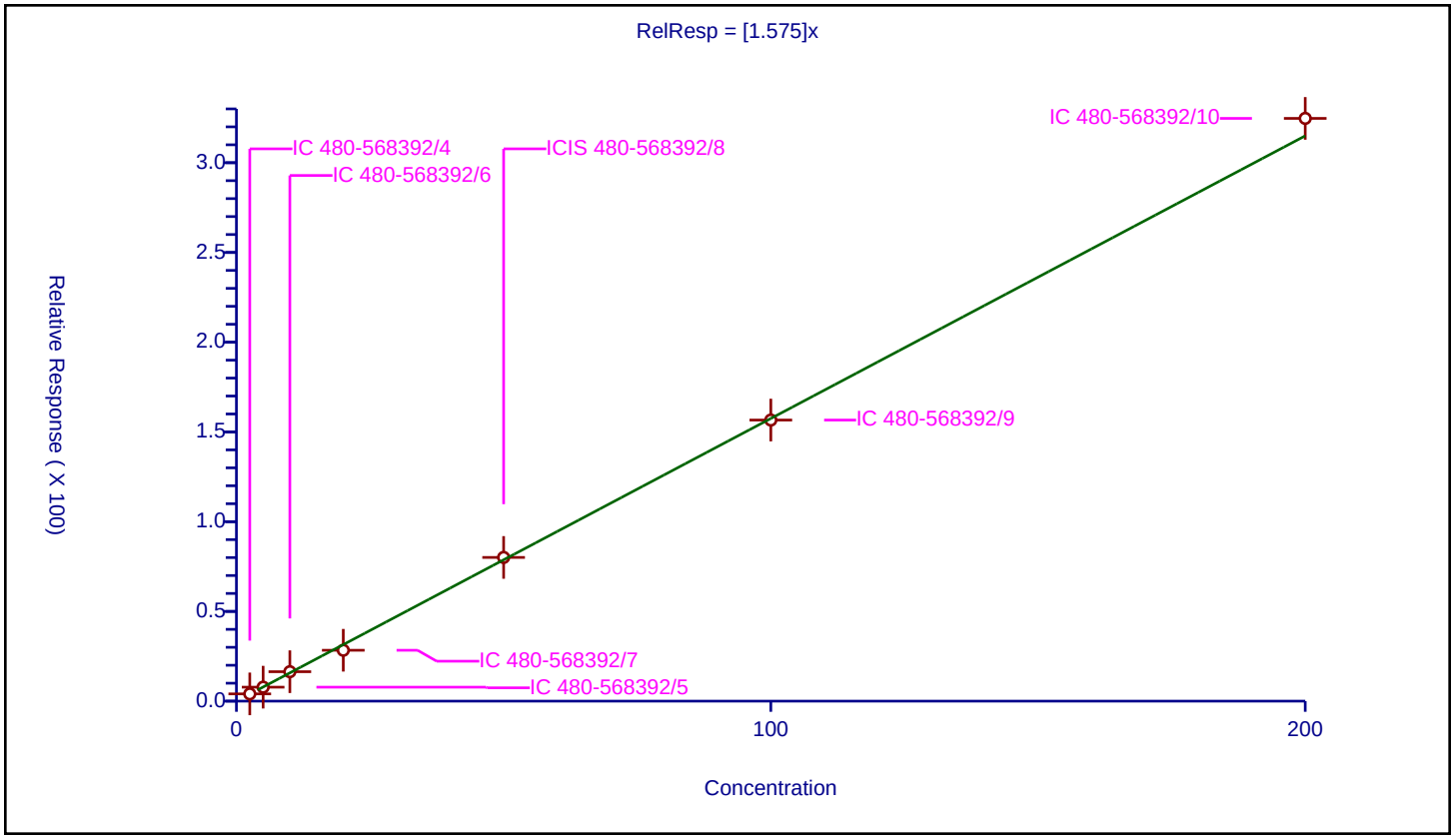
Curve Coefficients

Intercept:	0
Slope:	1.575

Error Coefficients

Standard Error:	743000
Relative Standard Error:	4.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	4.048388	50.0	216543.0	1.619355	Y
2	IC 480-568392/5	5.0	7.777357	50.0	219284.0	1.555471	Y
3	IC 480-568392/6	10.0	16.403465	50.0	223846.0	1.640346	Y
4	IC 480-568392/7	20.0	28.354146	50.0	226861.0	1.417707	Y
5	ICIS 480-568392/8	50.0	80.075958	50.0	238157.0	1.601519	Y
6	IC 480-568392/9	100.0	156.618552	50.0	242198.0	1.566186	Y
7	IC 480-568392/10	200.0	324.708968	50.0	246880.0	1.623545	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

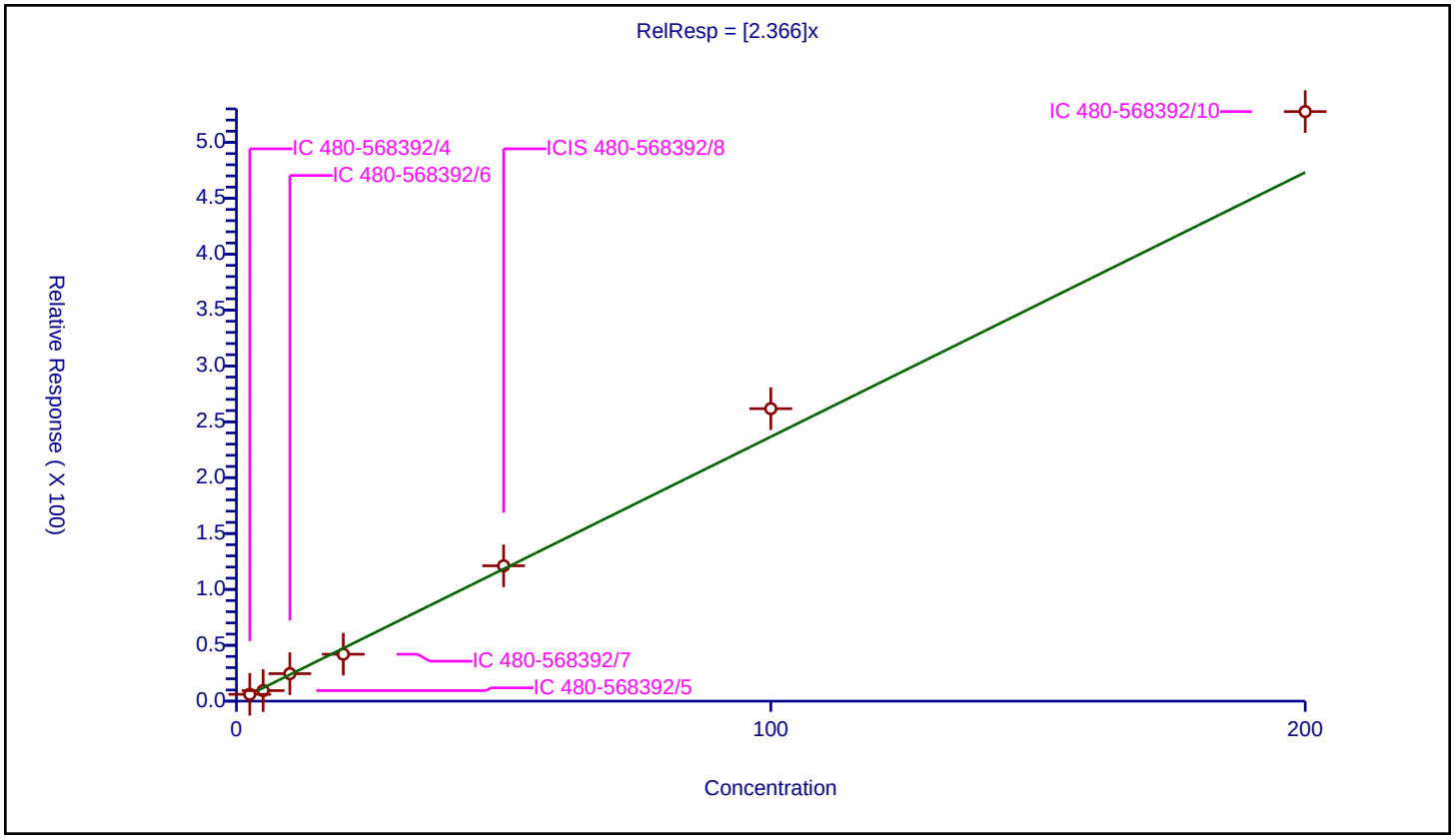
Curve Coefficients

Intercept:	0
Slope:	2.366

Error Coefficients

Standard Error:	1210000
Relative Standard Error:	11.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	6.102714	50.0	216543.0	2.441086	Y
2	IC 480-568392/5	5.0	9.427044	50.0	219284.0	1.885409	Y
3	IC 480-568392/6	10.0	24.582525	50.0	223846.0	2.458253	Y
4	IC 480-568392/7	20.0	41.982315	50.0	226861.0	2.099116	Y
5	ICIS 480-568392/8	50.0	121.110234	50.0	238157.0	2.422205	Y
6	IC 480-568392/9	100.0	261.729453	50.0	242198.0	2.617295	Y
7	IC 480-568392/10	200.0	527.59458	50.0	246880.0	2.637973	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

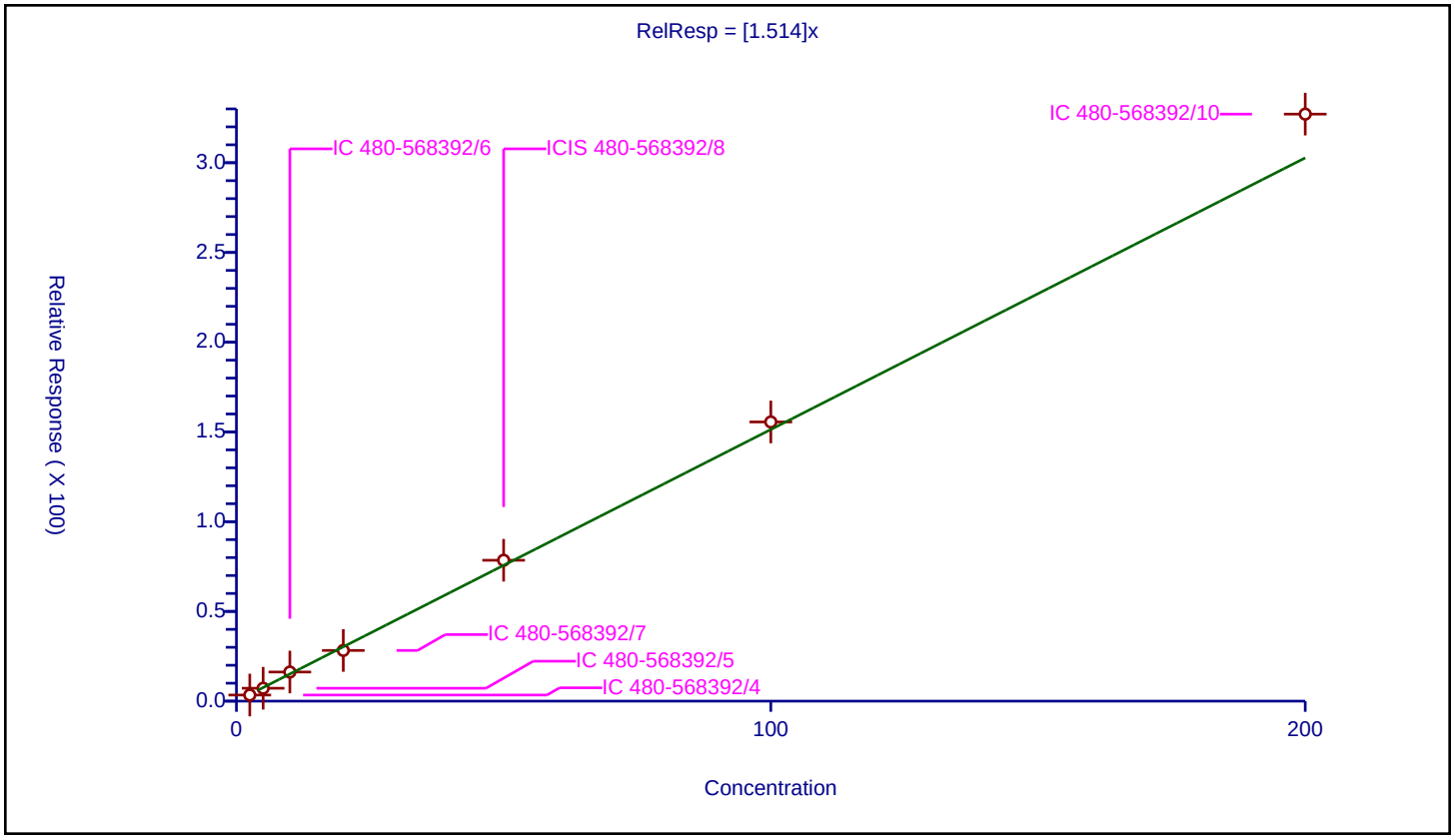
Curve Coefficients

Intercept:	0
Slope:	1.514

Error Coefficients

Standard Error:	746000
Relative Standard Error:	7.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	3.402557	50.0	216543.0	1.361023	Y
2	IC 480-568392/5	5.0	7.186115	50.0	219284.0	1.437223	Y
3	IC 480-568392/6	10.0	16.225887	50.0	223846.0	1.622589	Y
4	IC 480-568392/7	20.0	28.254305	50.0	226861.0	1.412715	Y
5	ICIS 480-568392/8	50.0	78.499267	50.0	238157.0	1.569985	Y
6	IC 480-568392/9	100.0	155.562185	50.0	242198.0	1.555622	Y
7	IC 480-568392/10	200.0	327.090489	50.0	246880.0	1.635452	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

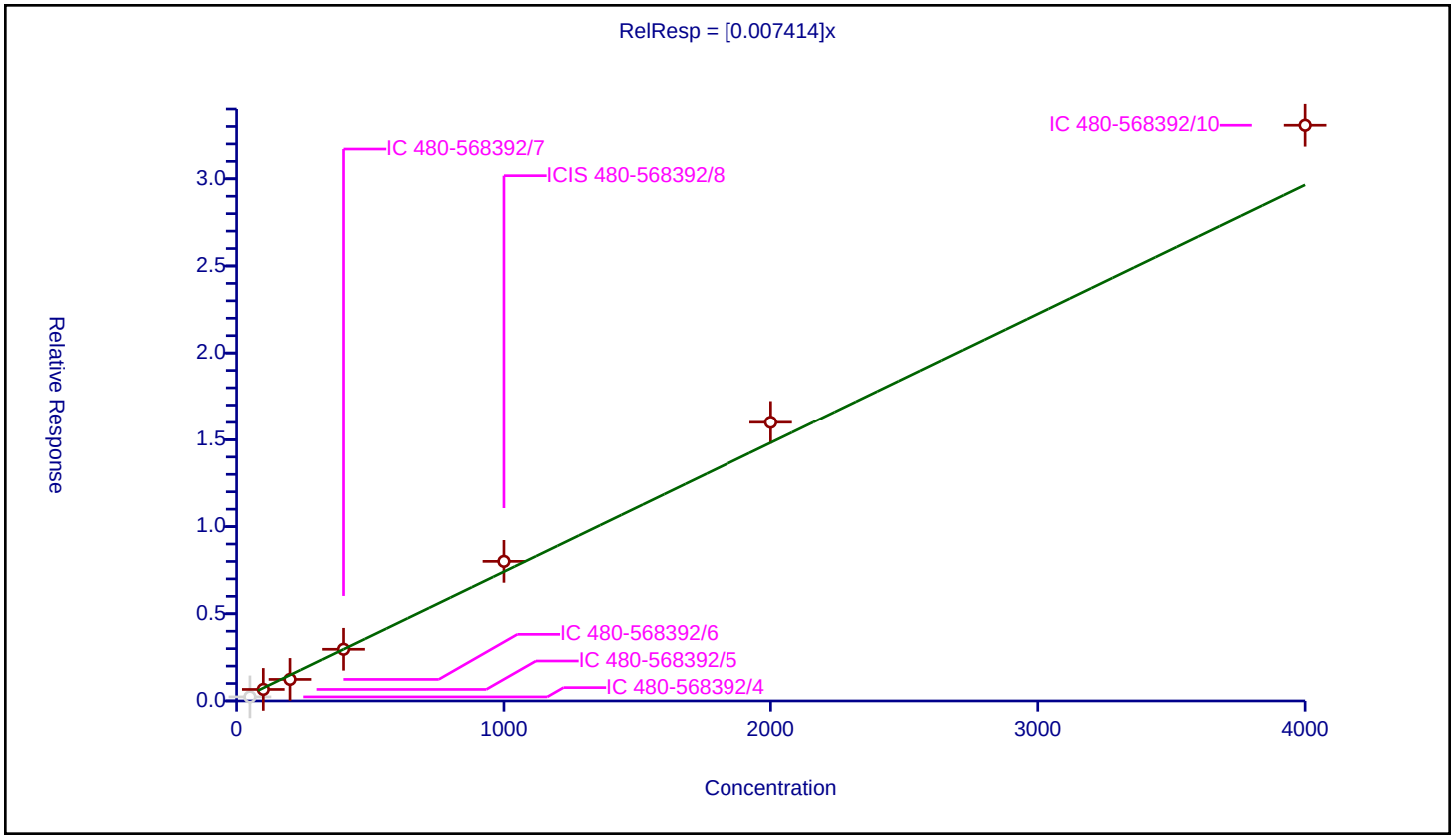
Curve Coefficients

Intercept:	0
Slope:	0.007414

Error Coefficients

Standard Error:	170000
Relative Standard Error:	11.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	50.0	0.233503	50.0	445604.0	0.00467	N
2	IC 480-568392/5	100.0	0.661023	50.0	435159.0	0.00661	Y
3	IC 480-568392/6	200.0	1.235981	50.0	442361.0	0.00618	Y
4	IC 480-568392/7	400.0	2.965662	50.0	457655.0	0.007414	Y
5	ICIS 480-568392/8	1000.0	8.005955	50.0	480230.0	0.008006	Y
6	IC 480-568392/9	2000.0	16.006102	50.0	494905.0	0.008003	Y
7	IC 480-568392/10	4000.0	33.07099	50.0	507986.0	0.008268	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

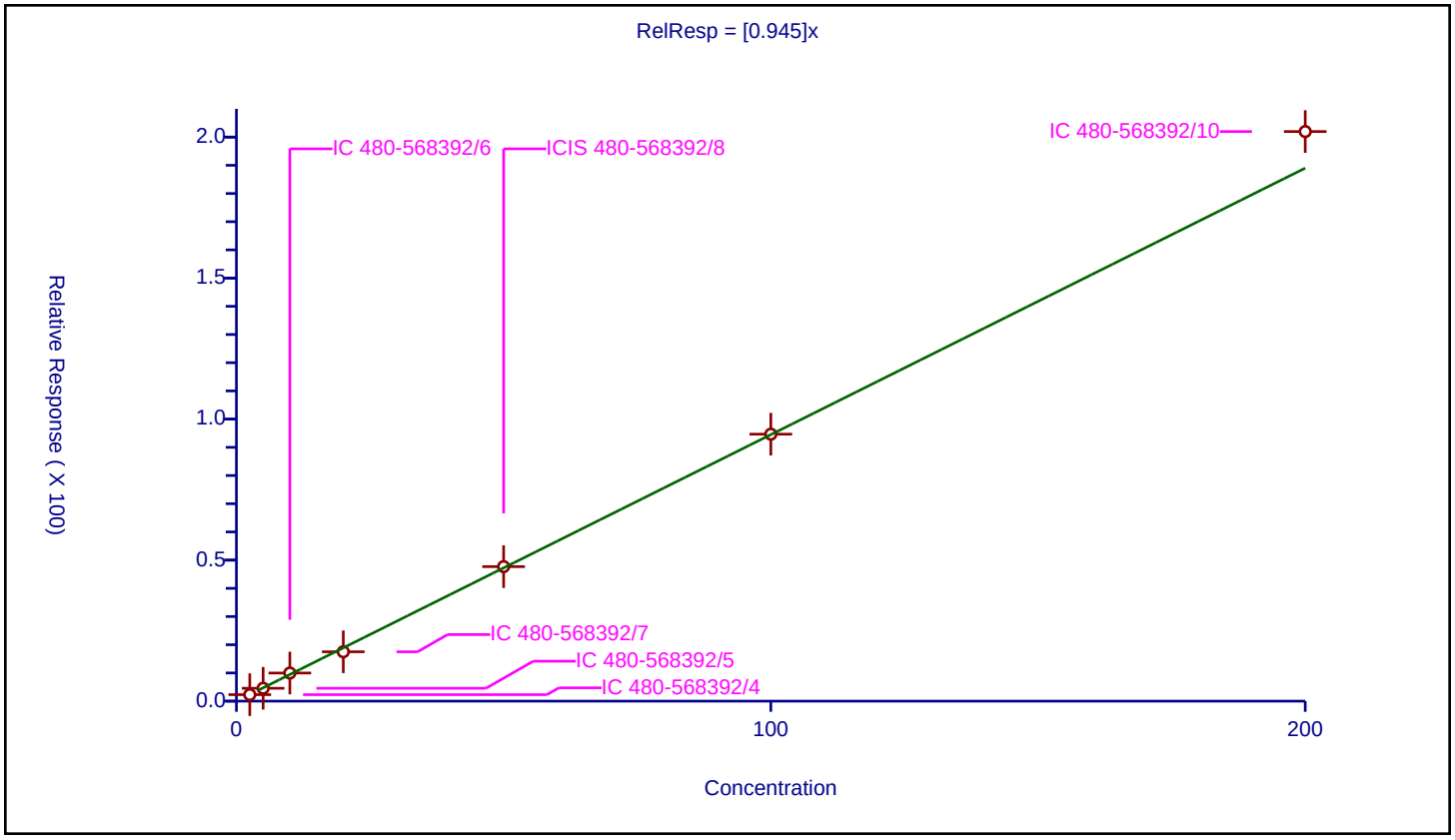
Curve Coefficients

Intercept:	0
Slope:	0.945

Error Coefficients

Standard Error:	459000
Relative Standard Error:	5.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	2.296311	50.0	216543.0	0.918524	Y
2	IC 480-568392/5	5.0	4.569189	50.0	219284.0	0.913838	Y
3	IC 480-568392/6	10.0	9.969131	50.0	223846.0	0.996913	Y
4	IC 480-568392/7	20.0	17.506976	50.0	226861.0	0.875349	Y
5	ICIS 480-568392/8	50.0	47.697107	50.0	238157.0	0.953942	Y
6	IC 480-568392/9	100.0	94.658709	50.0	242198.0	0.946587	Y
7	IC 480-568392/10	200.0	201.959251	50.0	246880.0	1.009796	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

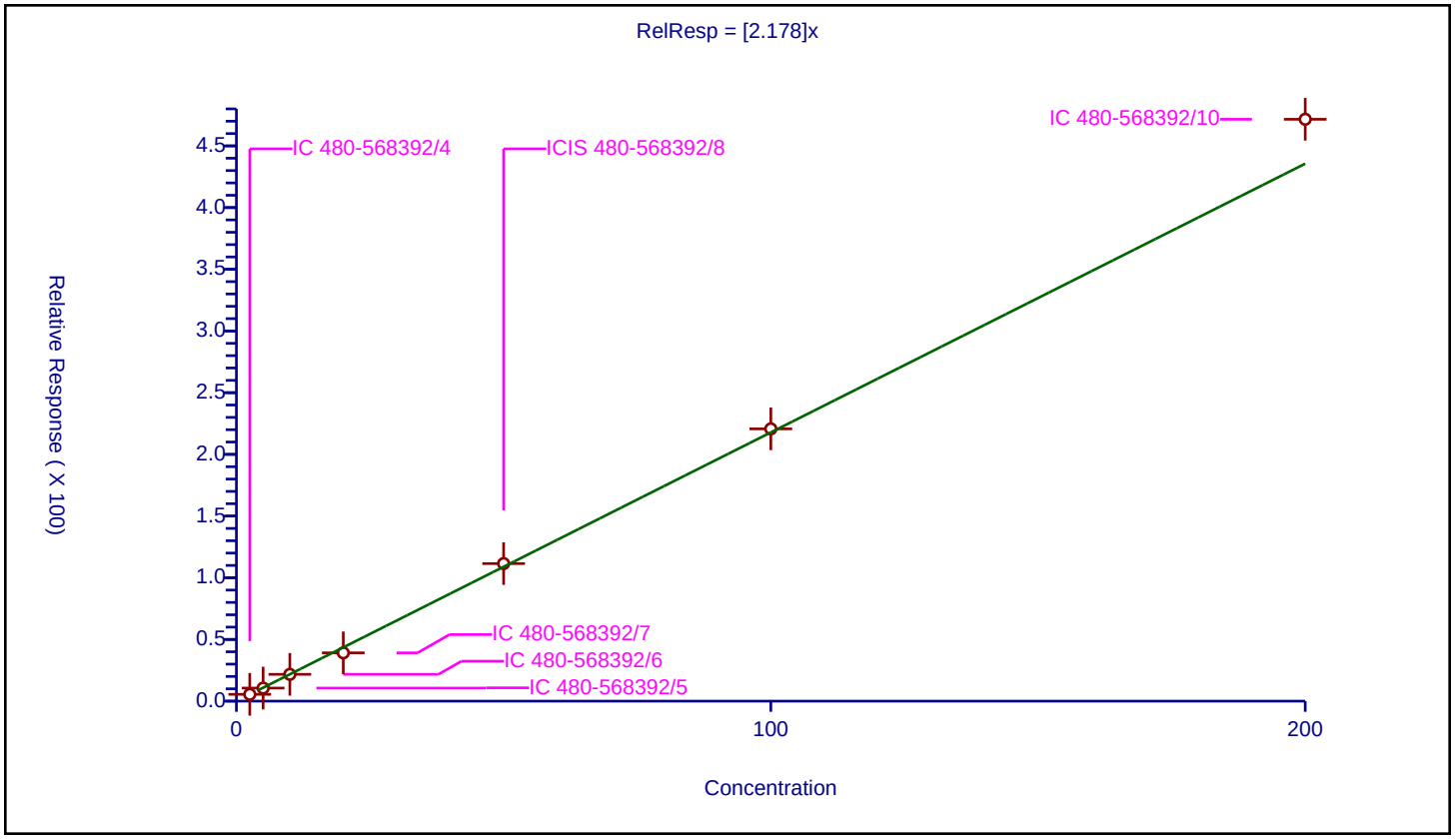
Curve Coefficients

Intercept:	0
Slope:	2.178

Error Coefficients

Standard Error:	1070000
Relative Standard Error:	5.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	5.505604	50.0	216543.0	2.202242	Y
2	IC 480-568392/5	5.0	10.598128	50.0	219284.0	2.119626	Y
3	IC 480-568392/6	10.0	21.721853	50.0	223846.0	2.172185	Y
4	IC 480-568392/7	20.0	39.14225	50.0	226861.0	1.957113	Y
5	ICIS 480-568392/8	50.0	111.48948	50.0	238157.0	2.22979	Y
6	IC 480-568392/9	100.0	220.677504	50.0	242198.0	2.206775	Y
7	IC 480-568392/10	200.0	471.572221	50.0	246880.0	2.357861	Y



Calibration / 2-Chloroethyl vinyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

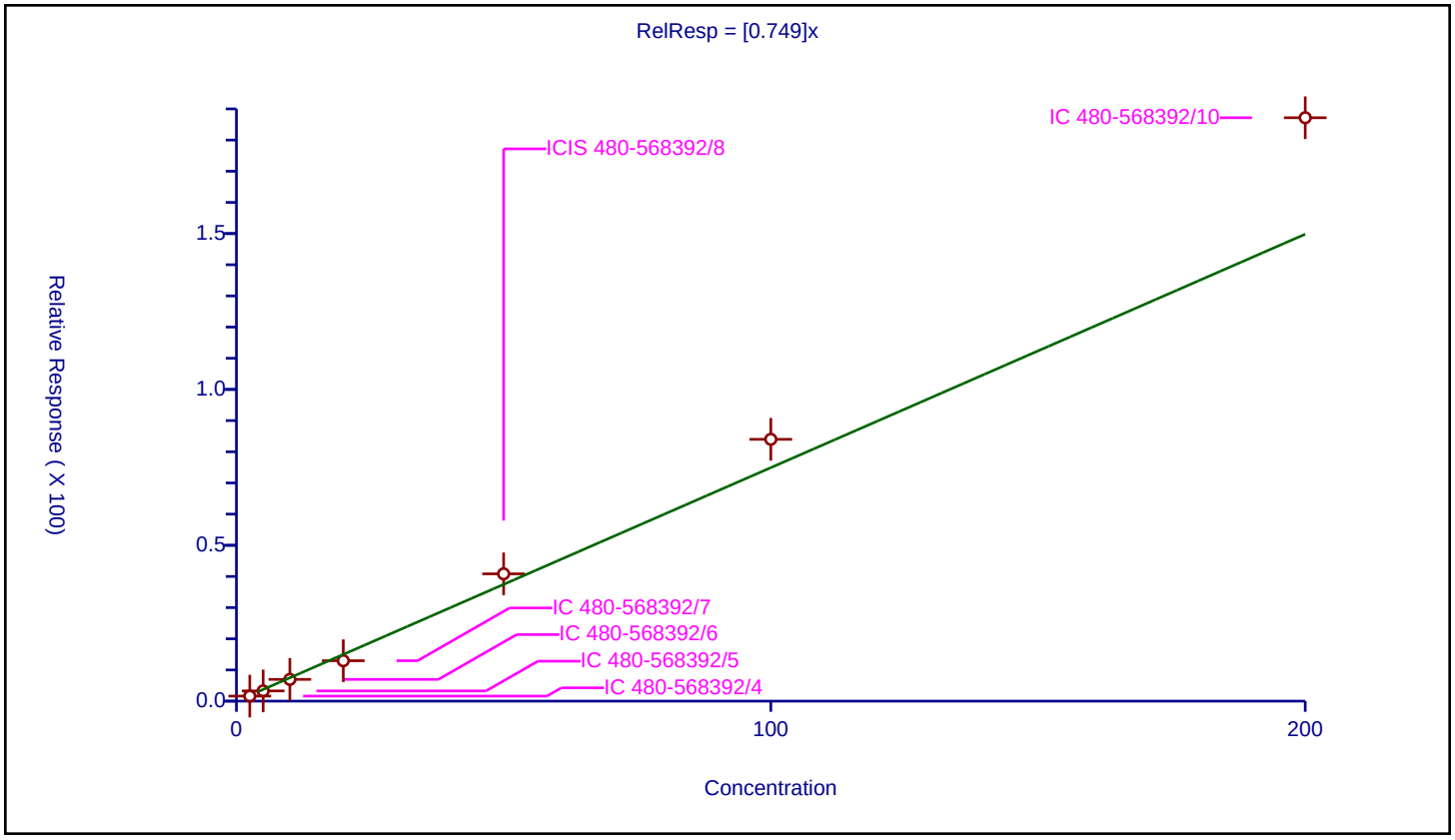
Curve Coefficients

Intercept:	0
Slope:	0.749

Error Coefficients

Standard Error:	421000
Relative Standard Error:	15.3
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.971

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	1.623234	50.0	216543.0	0.649294	Y
2	IC 480-568392/5	5.0	3.275889	50.0	219284.0	0.655178	Y
3	IC 480-568392/6	10.0	6.978012	50.0	223846.0	0.697801	Y
4	IC 480-568392/7	20.0	12.967853	50.0	226861.0	0.648393	Y
5	ICIS 480-568392/8	50.0	40.841756	50.0	238157.0	0.816835	Y
6	IC 480-568392/9	100.0	83.996771	50.0	242198.0	0.839968	Y
7	IC 480-568392/10	200.0	187.166437	50.0	246880.0	0.935832	Y



Calibration / cis-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

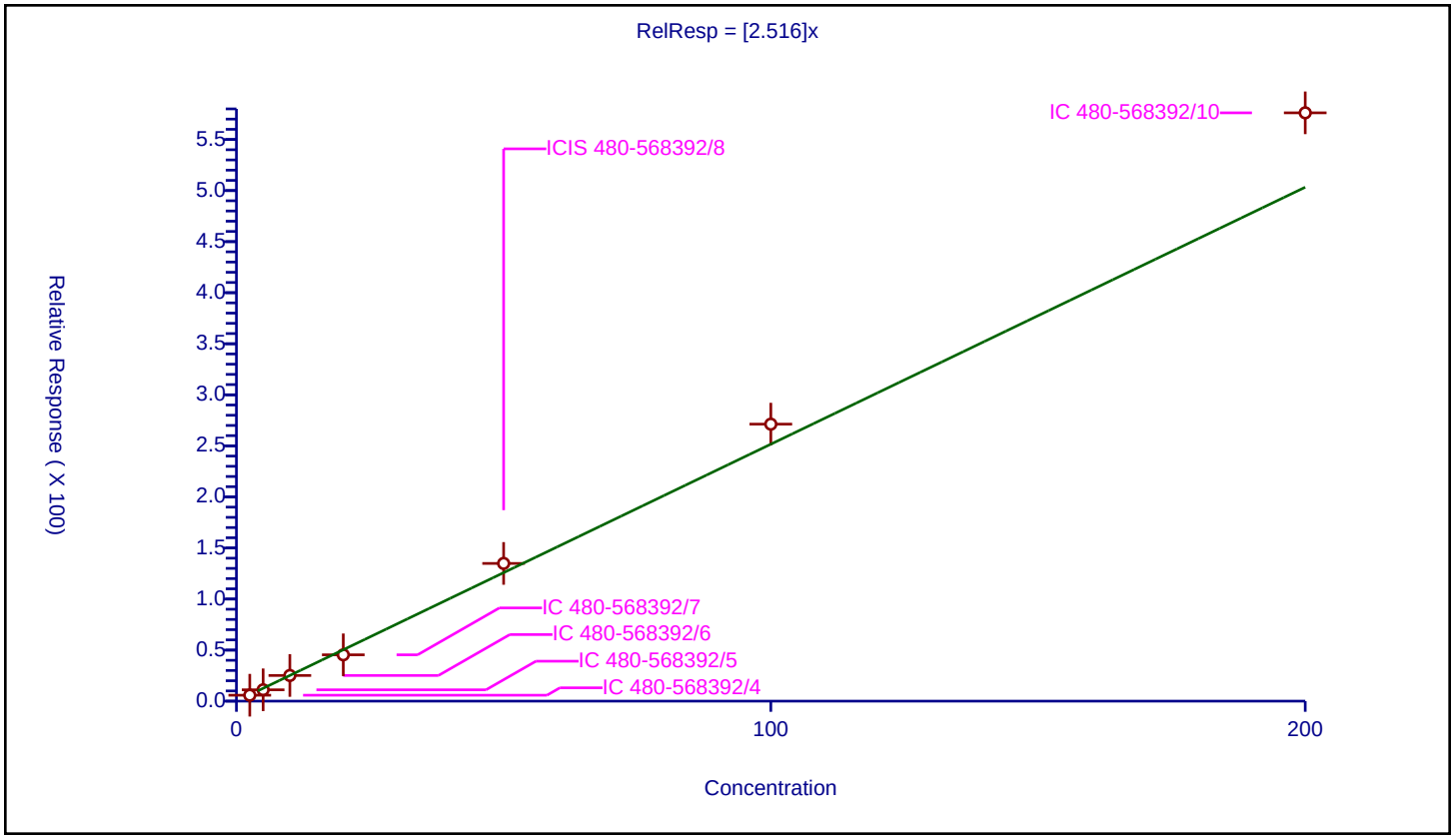
Curve Coefficients

Intercept:	0
Slope:	2.516

Error Coefficients

Standard Error:	1310000
Relative Standard Error:	10.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	5.800003	50.0	216543.0	2.320001	Y
2	IC 480-568392/5	5.0	11.110478	50.0	219284.0	2.222096	Y
3	IC 480-568392/6	10.0	25.136478	50.0	223846.0	2.513648	Y
4	IC 480-568392/7	20.0	45.370293	50.0	226861.0	2.268515	Y
5	ICIS 480-568392/8	50.0	134.872794	50.0	238157.0	2.697456	Y
6	IC 480-568392/9	100.0	271.265659	50.0	242198.0	2.712657	Y
7	IC 480-568392/10	200.0	576.131724	50.0	246880.0	2.880659	Y



Calibration / 4-Methyl-2-pentanone (MIBK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

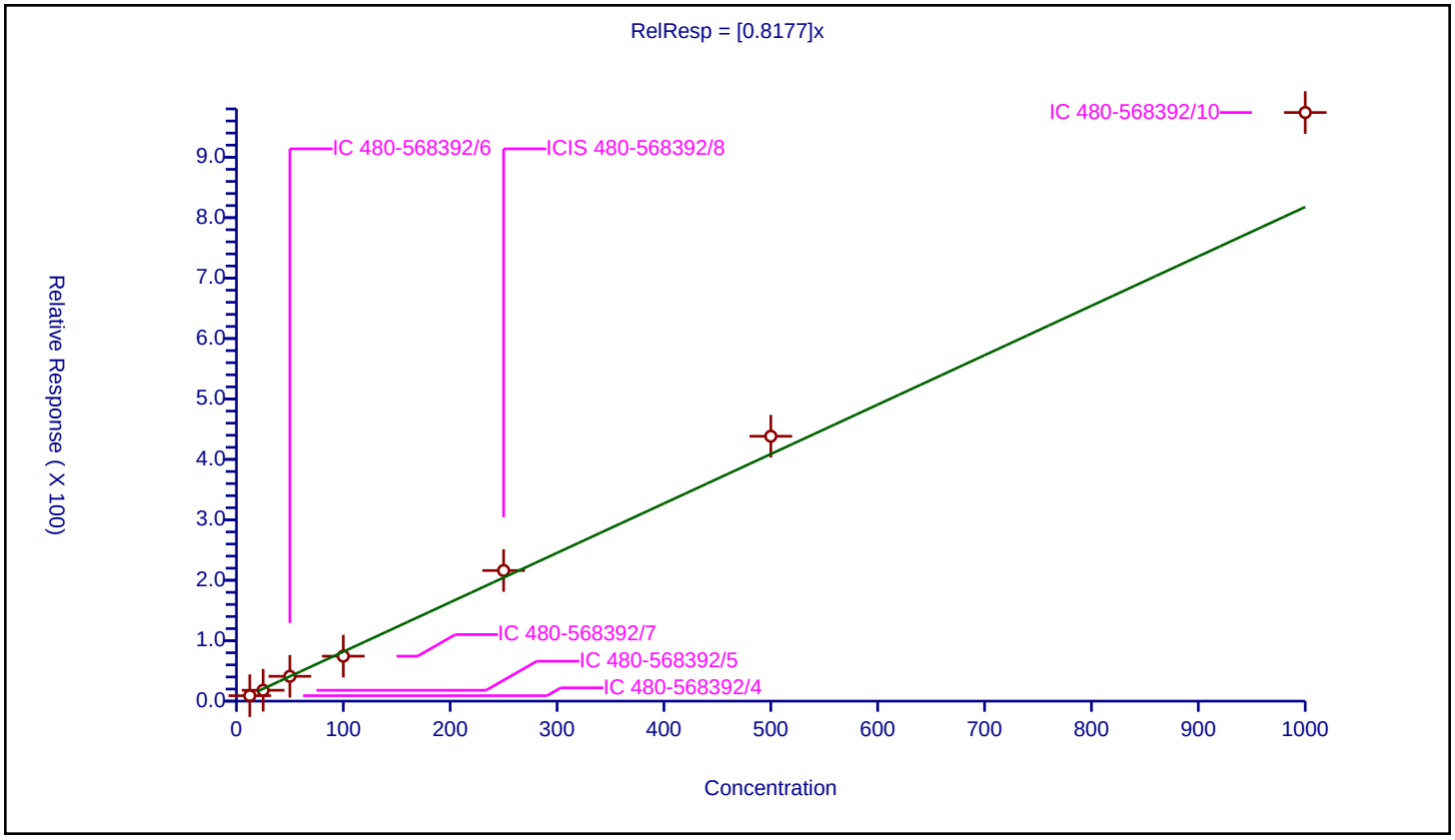
Curve Coefficients

Intercept:	0
Slope:	0.8177

Error Coefficients

Standard Error:	4500000
Relative Standard Error:	11.6
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	12.5	9.027971	50.0	445604.0	0.722238	Y
2	IC 480-568392/5	25.0	17.991585	50.0	435159.0	0.719663	Y
3	IC 480-568392/6	50.0	41.116192	50.0	442361.0	0.822324	Y
4	IC 480-568392/7	100.0	74.434454	50.0	457655.0	0.744345	Y
5	ICIS 480-568392/8	250.0	216.168398	50.0	480230.0	0.864674	Y
6	IC 480-568392/9	500.0	438.332912	50.0	494905.0	0.876666	Y
7	IC 480-568392/10	1000.0	974.02645	50.0	507986.0	0.974026	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

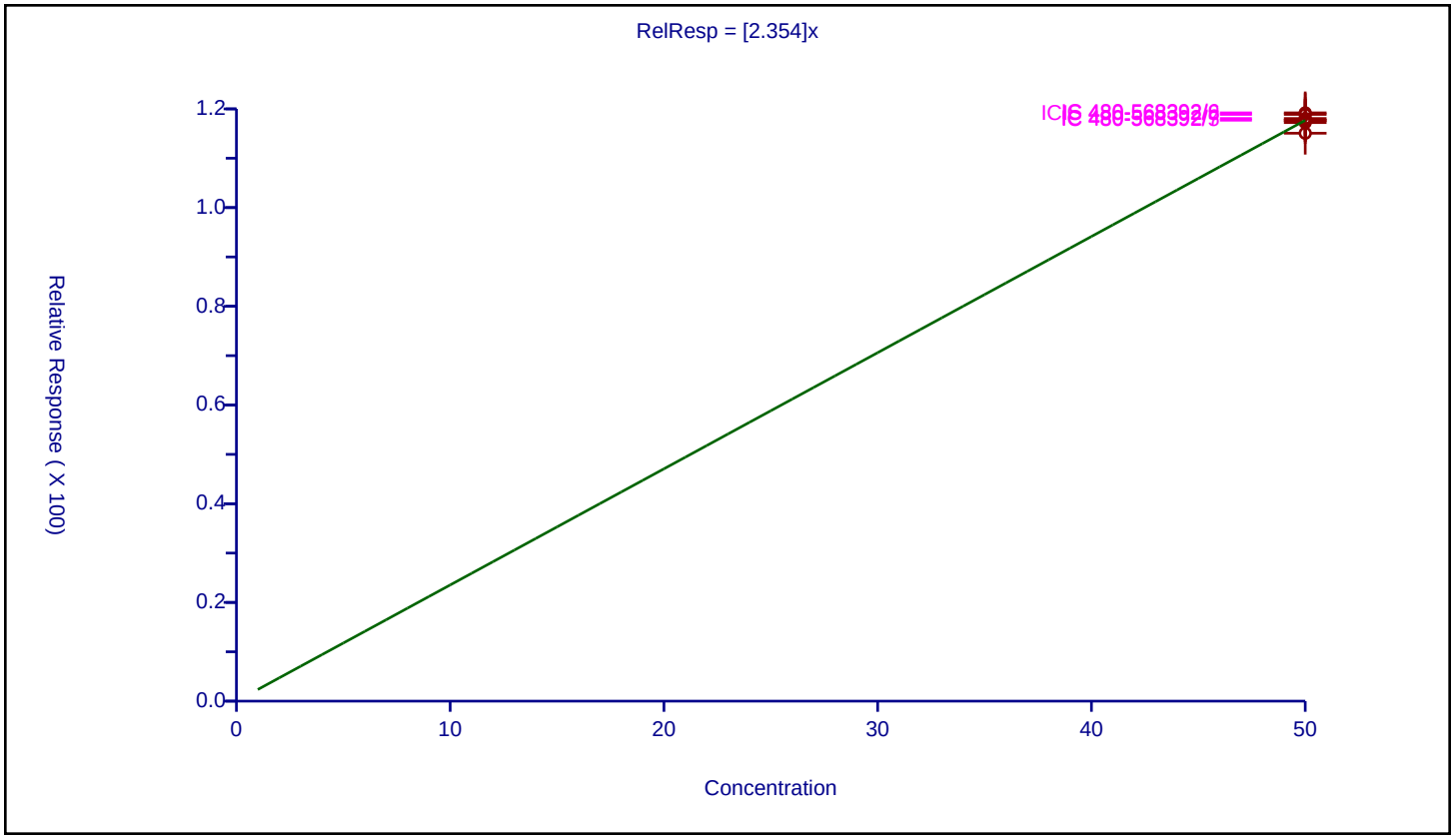
Curve Coefficients

Intercept:	0
Slope:	2.354

Error Coefficients

Standard Error:	1190000
Relative Standard Error:	1.1
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	50.0	117.223364	50.0	445604.0	2.344467	Y
2	IC 480-568392/5	50.0	117.706287	50.0	435159.0	2.354126	Y
3	IC 480-568392/6	50.0	119.193261	50.0	442361.0	2.383865	Y
4	IC 480-568392/7	50.0	118.053883	50.0	457655.0	2.361078	Y
5	ICIS 480-568392/8	50.0	118.884597	50.0	480230.0	2.377692	Y
6	IC 480-568392/9	50.0	115.065316	50.0	494905.0	2.301306	Y
7	IC 480-568392/10	50.0	117.632868	50.0	507986.0	2.352657	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

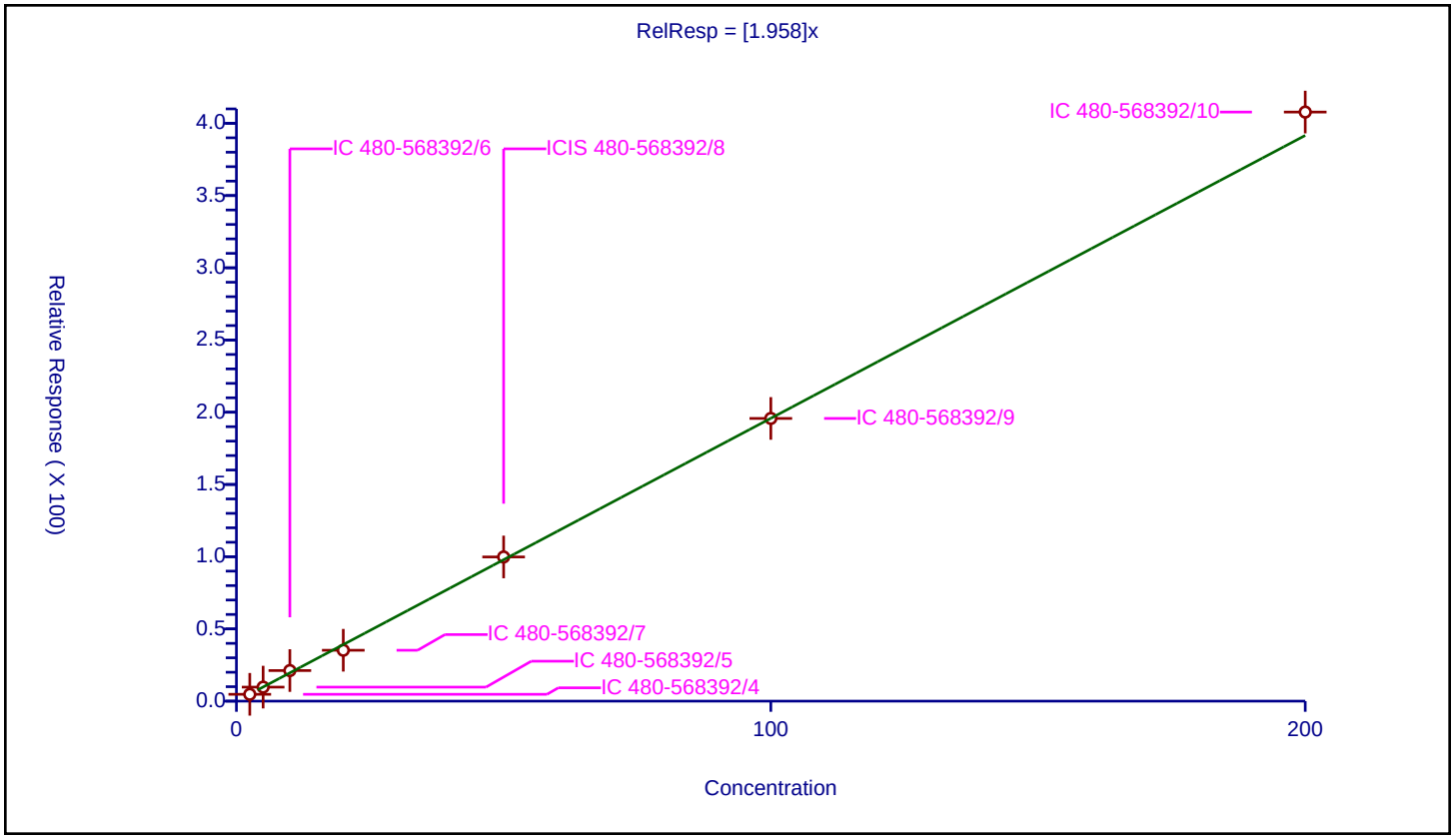
Curve Coefficients

Intercept:	0
Slope:	1.958

Error Coefficients

Standard Error:	1910000
Relative Standard Error:	5.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	4.732004	50.0	445604.0	1.892802	Y
2	IC 480-568392/5	5.0	9.711623	50.0	435159.0	1.942325	Y
3	IC 480-568392/6	10.0	21.172866	50.0	442361.0	2.117287	Y
4	IC 480-568392/7	20.0	35.230905	50.0	457655.0	1.761545	Y
5	ICIS 480-568392/8	50.0	99.80957	50.0	480230.0	1.996191	Y
6	IC 480-568392/9	100.0	195.720593	50.0	494905.0	1.957206	Y
7	IC 480-568392/10	200.0	407.812518	50.0	507986.0	2.039063	Y



Calibration / trans-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

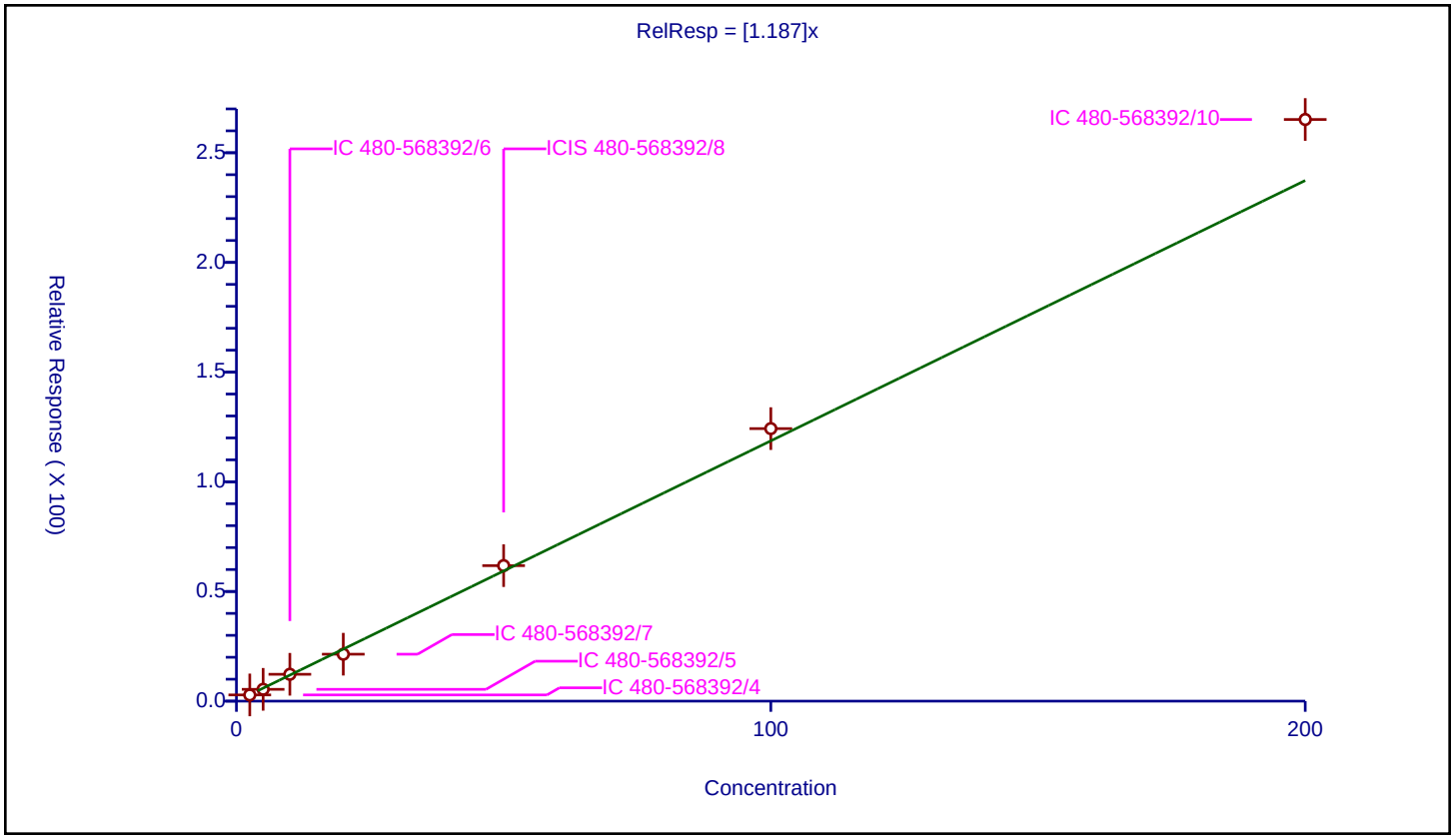
Curve Coefficients

Intercept:	0
Slope:	1.187

Error Coefficients

Standard Error:	1240000
Relative Standard Error:	8.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	2.829081	50.0	445604.0	1.131633	Y
2	IC 480-568392/5	5.0	5.390558	50.0	435159.0	1.078112	Y
3	IC 480-568392/6	10.0	12.241472	50.0	442361.0	1.224147	Y
4	IC 480-568392/7	20.0	21.394828	50.0	457655.0	1.069741	Y
5	ICIS 480-568392/8	50.0	61.775712	50.0	480230.0	1.235514	Y
6	IC 480-568392/9	100.0	124.241319	50.0	494905.0	1.242413	Y
7	IC 480-568392/10	200.0	265.167642	50.0	507986.0	1.325838	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

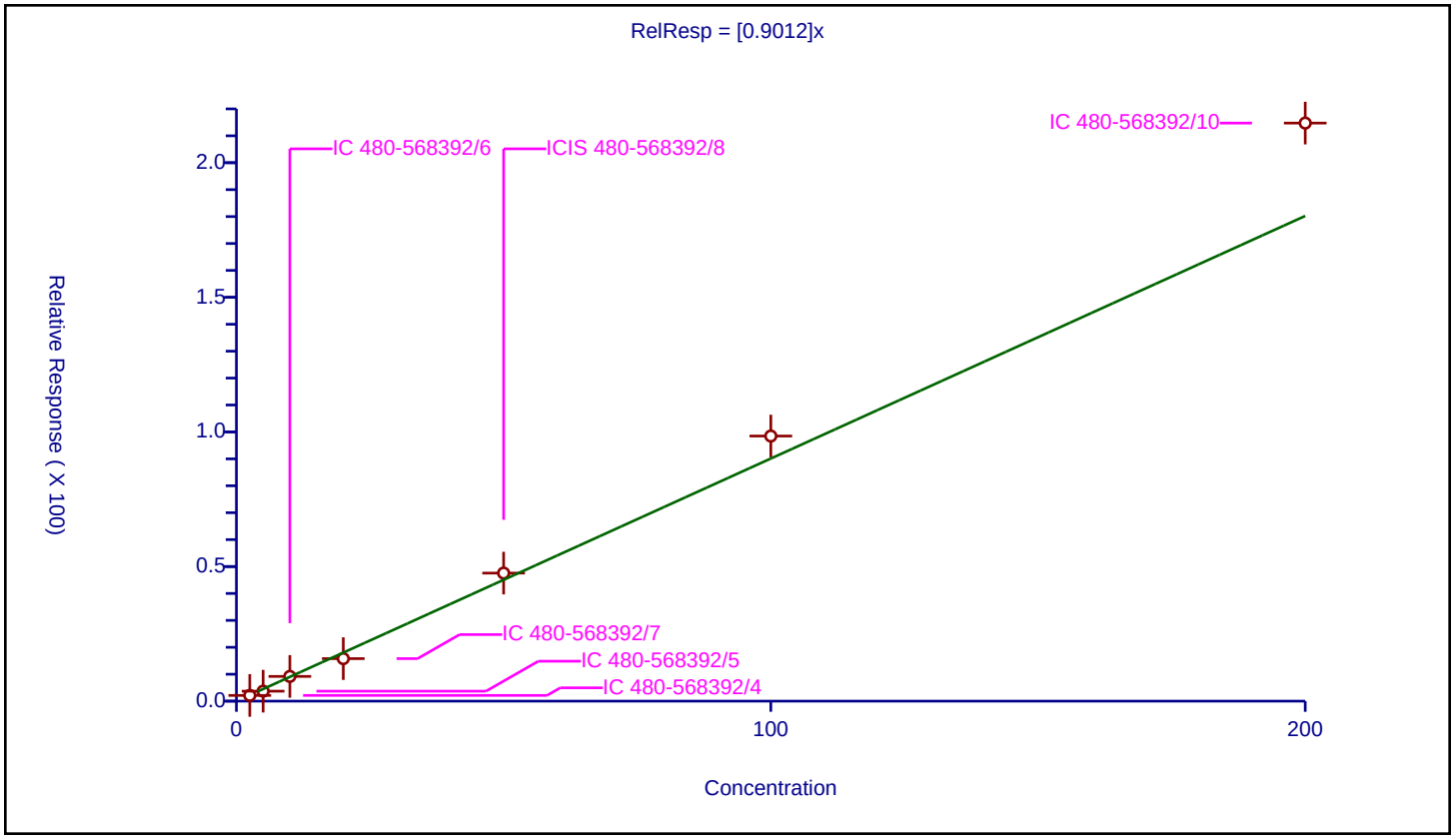
Curve Coefficients

Intercept:	0
Slope:	0.9012

Error Coefficients

Standard Error:	995000
Relative Standard Error:	12.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	2.120717	50.0	445604.0	0.848287	Y
2	IC 480-568392/5	5.0	3.705542	50.0	435159.0	0.741108	Y
3	IC 480-568392/6	10.0	9.190118	50.0	442361.0	0.919012	Y
4	IC 480-568392/7	20.0	15.798473	50.0	457655.0	0.789924	Y
5	ICIS 480-568392/8	50.0	47.567936	50.0	480230.0	0.951359	Y
6	IC 480-568392/9	100.0	98.476475	50.0	494905.0	0.984765	Y
7	IC 480-568392/10	200.0	214.729245	50.0	507986.0	1.073646	Y



Calibration / 1,1,2-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

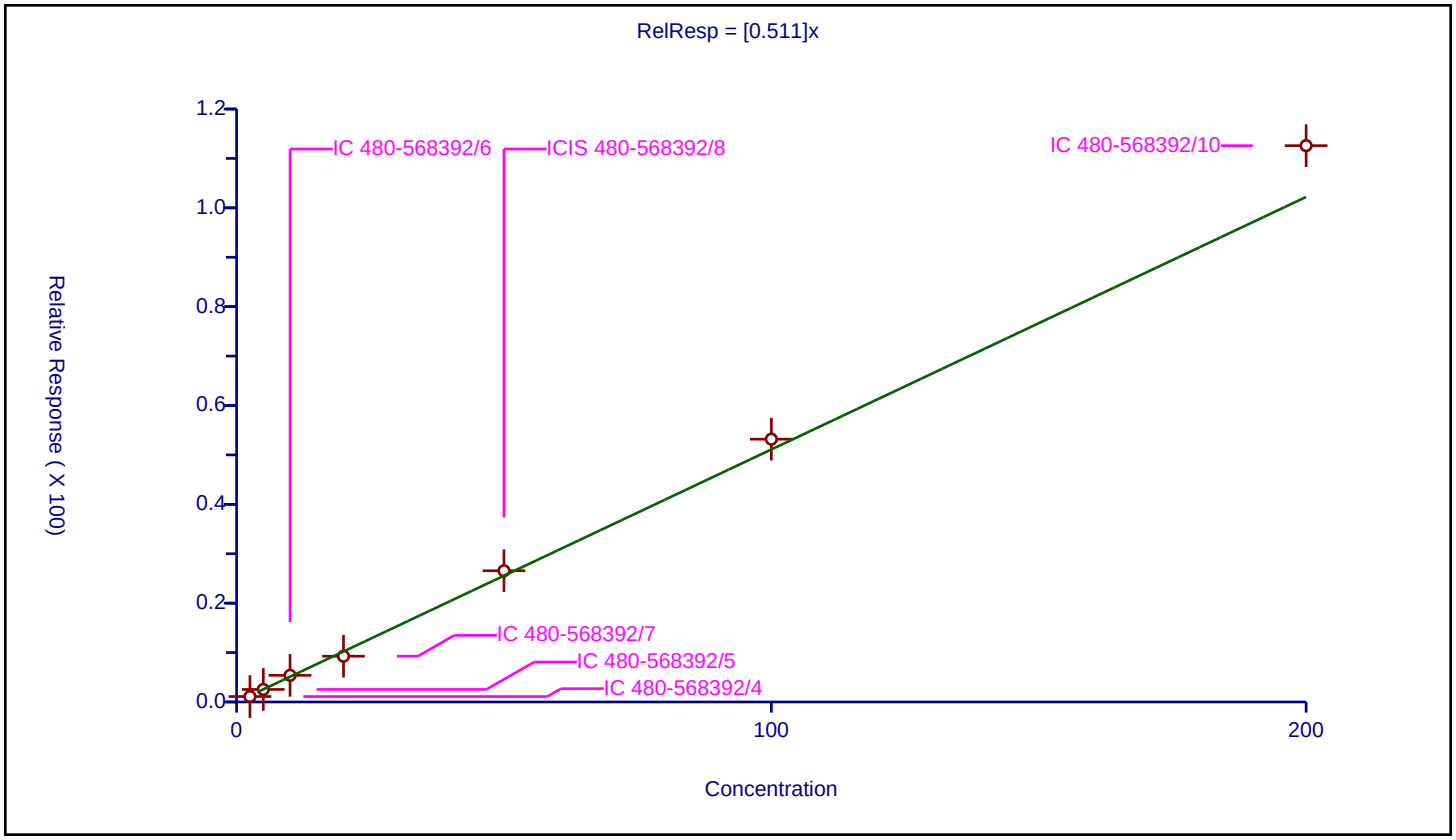
Curve Coefficients

Intercept:	0
Slope:	0.511

Error Coefficients

Standard Error:	526000
Relative Standard Error:	8.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	1.101875	50.0	445604.0	0.44075	Y
2	IC 480-568392/5	5.0	2.538383	50.0	435159.0	0.507677	Y
3	IC 480-568392/6	10.0	5.396045	50.0	442361.0	0.539605	Y
4	IC 480-568392/7	20.0	9.261015	50.0	457655.0	0.463051	Y
5	ICIS 480-568392/8	50.0	26.559982	50.0	480230.0	0.5312	Y
6	IC 480-568392/9	100.0	53.184955	50.0	494905.0	0.53185	Y
7	IC 480-568392/10	200.0	112.58391	50.0	507986.0	0.56292	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

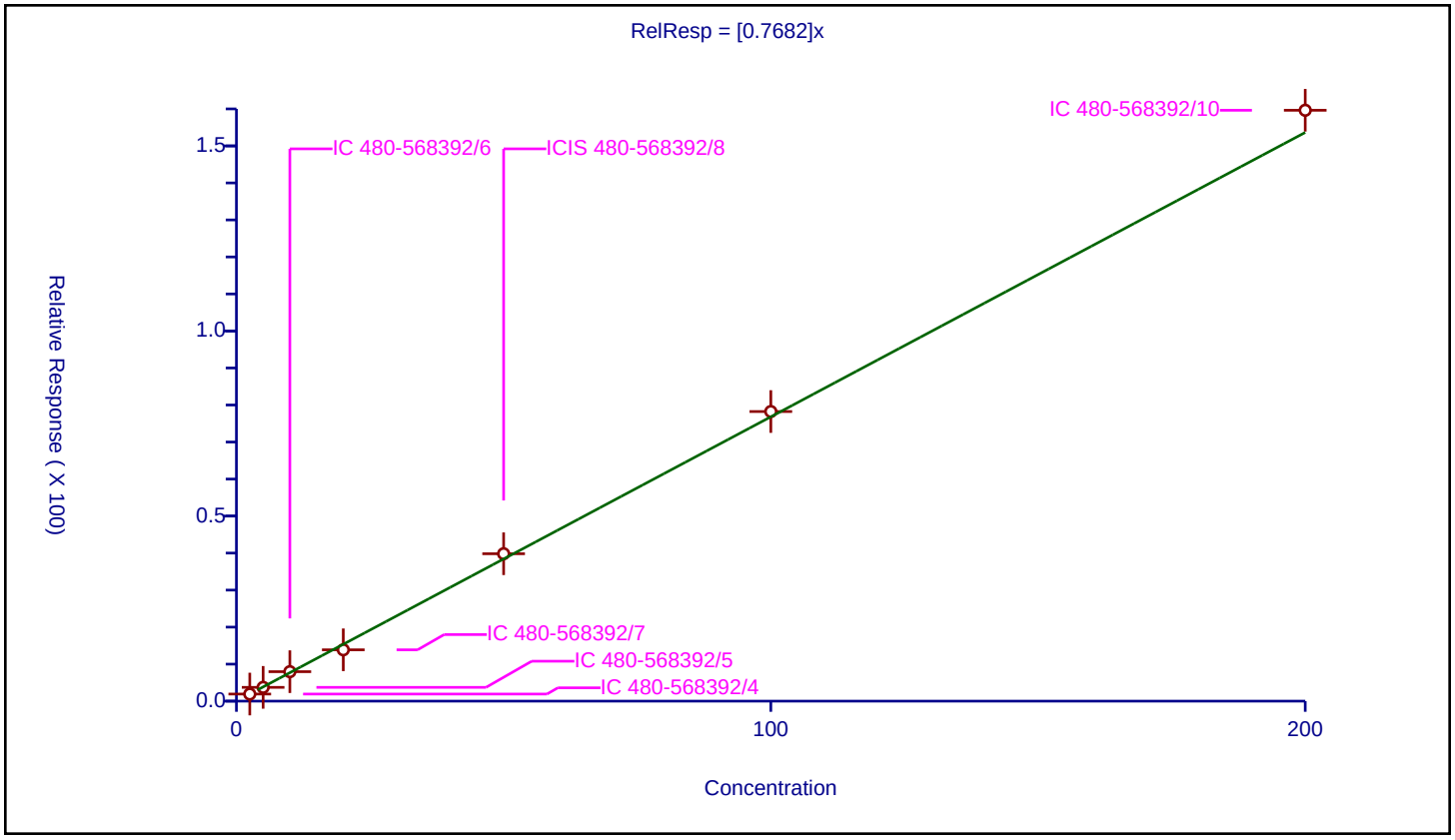
Curve Coefficients

Intercept:	0
Slope:	0.7682

Error Coefficients

Standard Error:	753000
Relative Standard Error:	5.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	1.915714	50.0	445604.0	0.766286	Y
2	IC 480-568392/5	5.0	3.720249	50.0	435159.0	0.74405	Y
3	IC 480-568392/6	10.0	7.964197	50.0	442361.0	0.79642	Y
4	IC 480-568392/7	20.0	13.870383	50.0	457655.0	0.693519	Y
5	ICIS 480-568392/8	50.0	39.81967	50.0	480230.0	0.796393	Y
6	IC 480-568392/9	100.0	78.24239	50.0	494905.0	0.782424	Y
7	IC 480-568392/10	200.0	159.626348	50.0	507986.0	0.798132	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

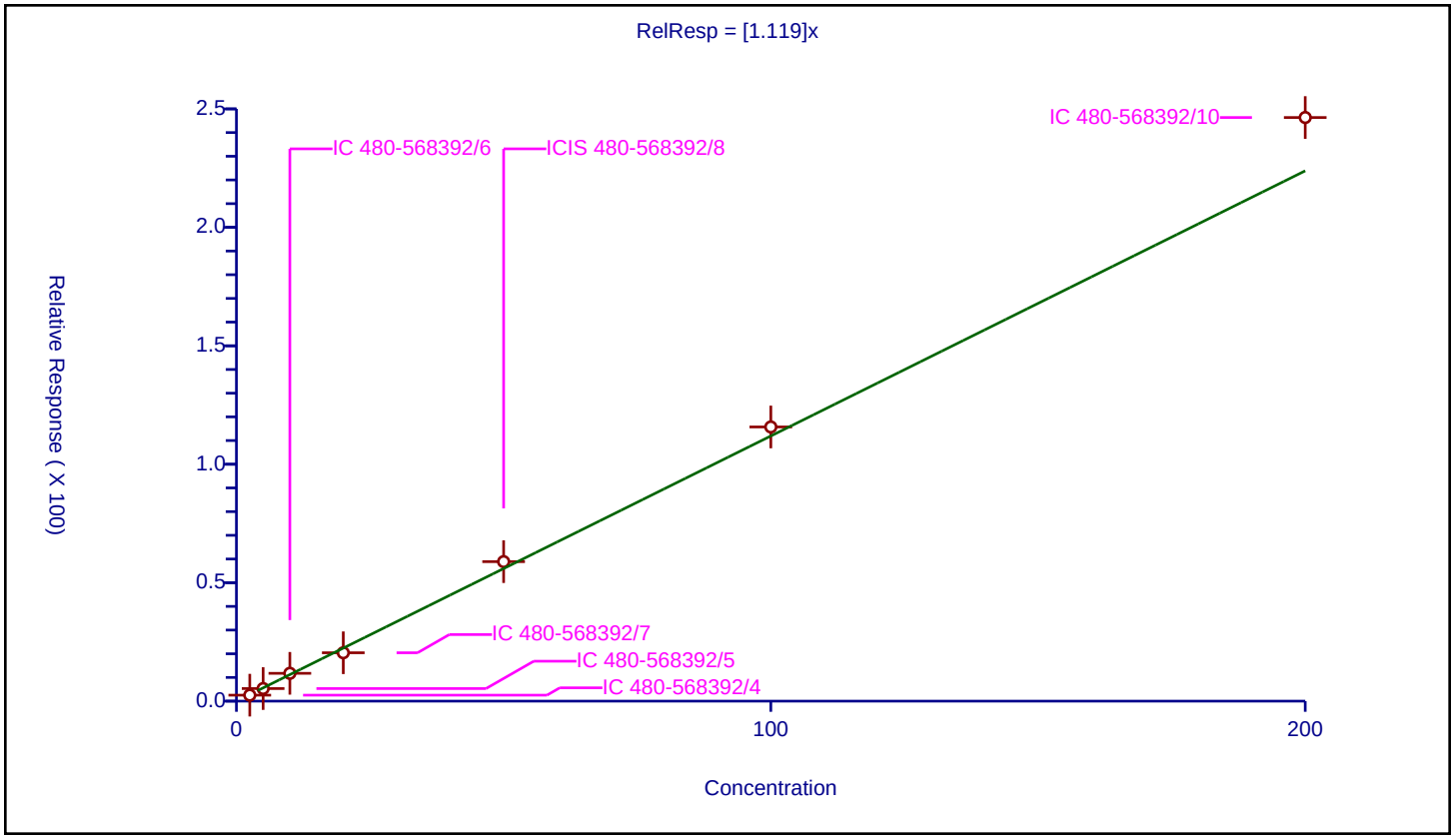
Curve Coefficients

Intercept:	0
Slope:	1.119

Error Coefficients

Standard Error:	1150000
Relative Standard Error:	7.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	2.525561	50.0	445604.0	1.010224	Y
2	IC 480-568392/5	5.0	5.310358	50.0	435159.0	1.062072	Y
3	IC 480-568392/6	10.0	11.744254	50.0	442361.0	1.174425	Y
4	IC 480-568392/7	20.0	20.425539	50.0	457655.0	1.021277	Y
5	ICIS 480-568392/8	50.0	58.886888	50.0	480230.0	1.177738	Y
6	IC 480-568392/9	100.0	115.741607	50.0	494905.0	1.157416	Y
7	IC 480-568392/10	200.0	246.356789	50.0	507986.0	1.231784	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

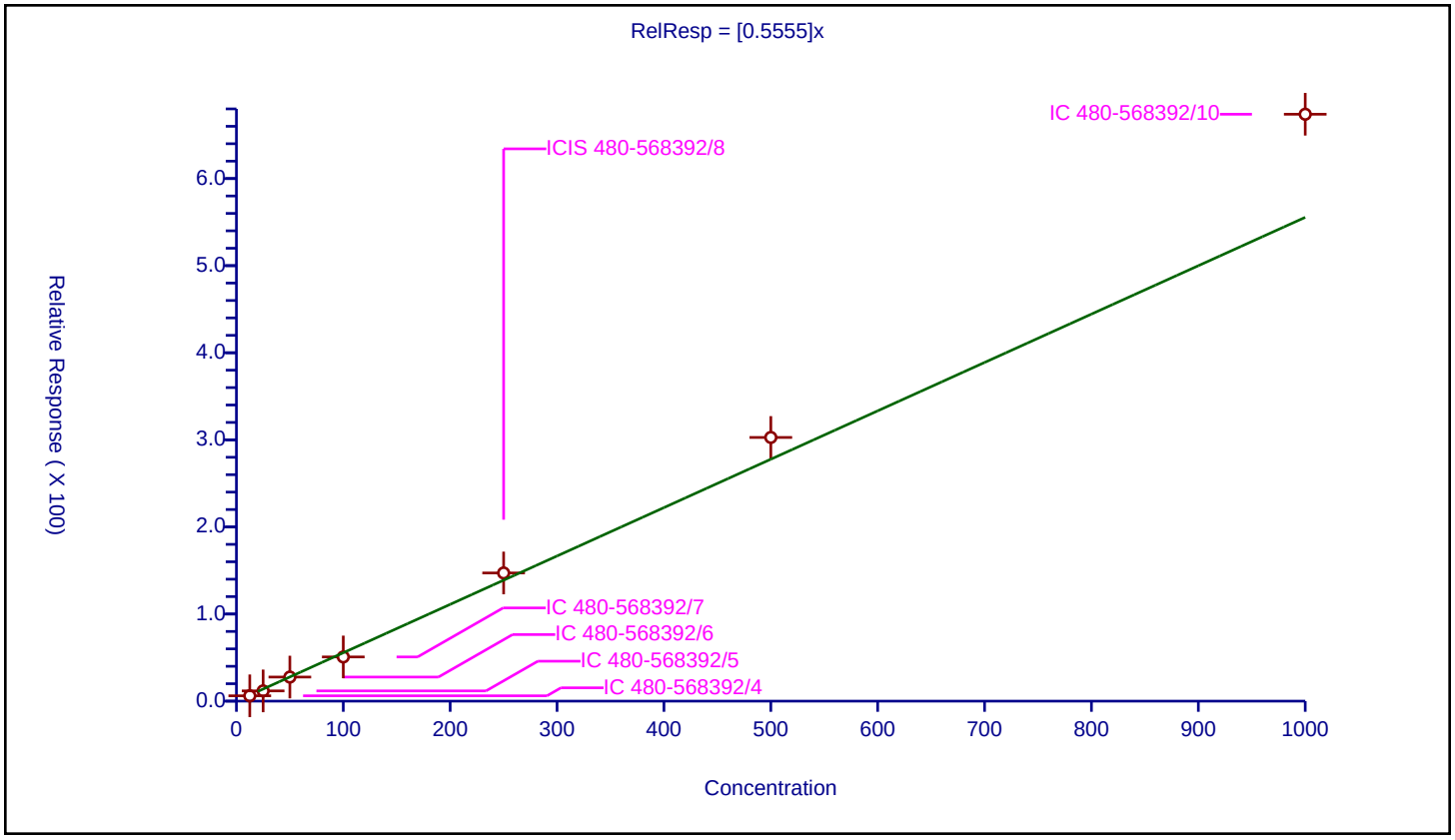
Curve Coefficients

Intercept:	0
Slope:	0.5555

Error Coefficients

Standard Error:	3110000
Relative Standard Error:	13.1
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	12.5	6.117091	50.0	445604.0	0.489367	Y
2	IC 480-568392/5	25.0	11.762023	50.0	435159.0	0.470481	Y
3	IC 480-568392/6	50.0	27.655693	50.0	442361.0	0.553114	Y
4	IC 480-568392/7	100.0	50.737564	50.0	457655.0	0.507376	Y
5	ICIS 480-568392/8	250.0	147.176978	50.0	480230.0	0.588708	Y
6	IC 480-568392/9	500.0	302.746487	50.0	494905.0	0.605493	Y
7	IC 480-568392/10	1000.0	673.865323	50.0	507986.0	0.673865	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

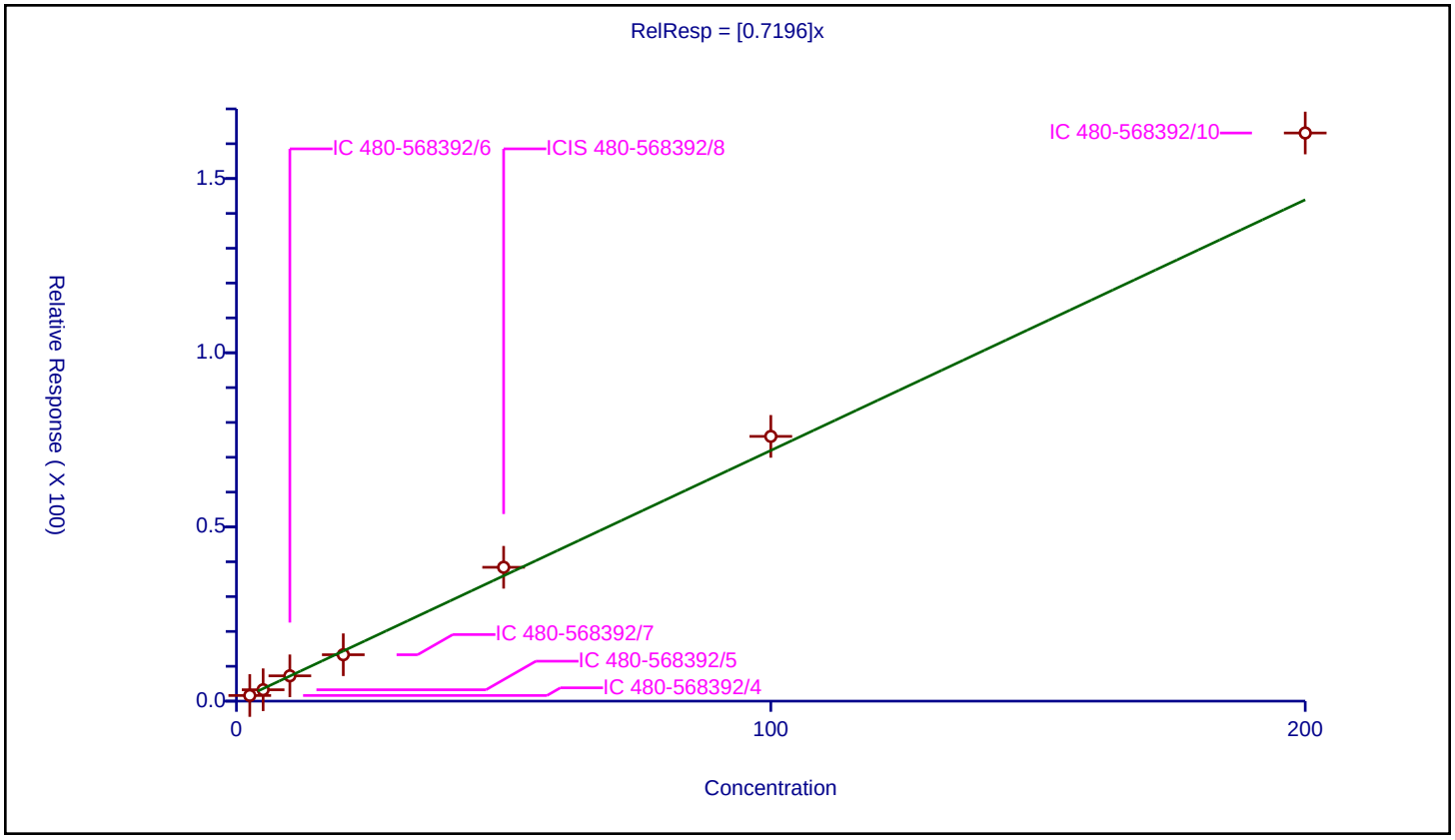
Curve Coefficients

Intercept:	0
Slope:	0.7196

Error Coefficients

Standard Error:	760000
Relative Standard Error:	9.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	1.617243	50.0	445604.0	0.646897	Y
2	IC 480-568392/5	5.0	3.26892	50.0	435159.0	0.653784	Y
3	IC 480-568392/6	10.0	7.264655	50.0	442361.0	0.726465	Y
4	IC 480-568392/7	20.0	13.322044	50.0	457655.0	0.666102	Y
5	ICIS 480-568392/8	50.0	38.42388	50.0	480230.0	0.768478	Y
6	IC 480-568392/9	100.0	75.999333	50.0	494905.0	0.759993	Y
7	IC 480-568392/10	200.0	163.078412	50.0	507986.0	0.815392	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

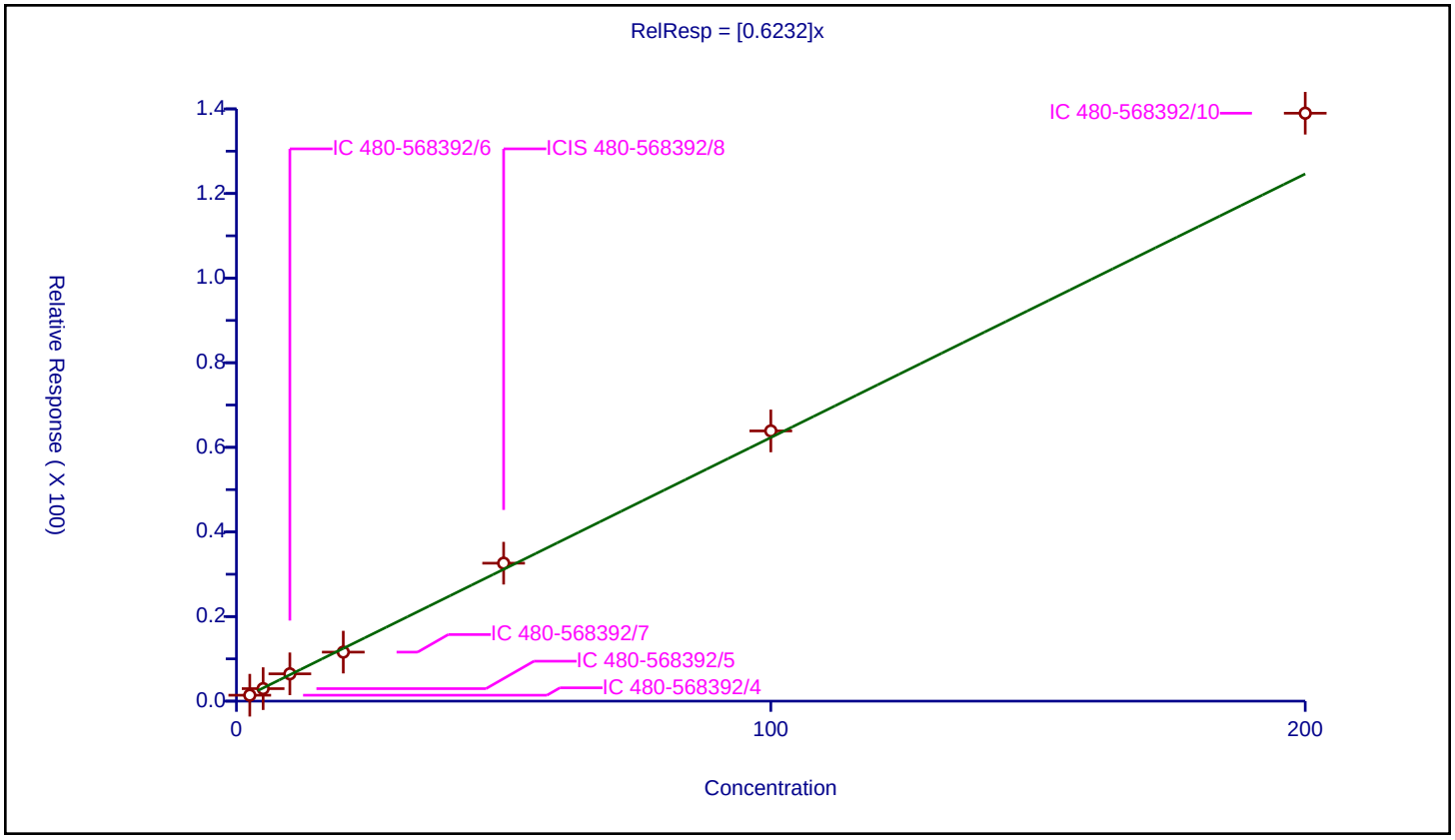
Curve Coefficients

Intercept:	0
Slope:	0.6232

Error Coefficients

Standard Error:	646000
Relative Standard Error:	7.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	1.398439	50.0	445604.0	0.559376	Y
2	IC 480-568392/5	5.0	2.959033	50.0	435159.0	0.591807	Y
3	IC 480-568392/6	10.0	6.457961	50.0	442361.0	0.645796	Y
4	IC 480-568392/7	20.0	11.58744	50.0	457655.0	0.579372	Y
5	ICIS 480-568392/8	50.0	32.607396	50.0	480230.0	0.652148	Y
6	IC 480-568392/9	100.0	63.877209	50.0	494905.0	0.638772	Y
7	IC 480-568392/10	200.0	138.979814	50.0	507986.0	0.694899	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

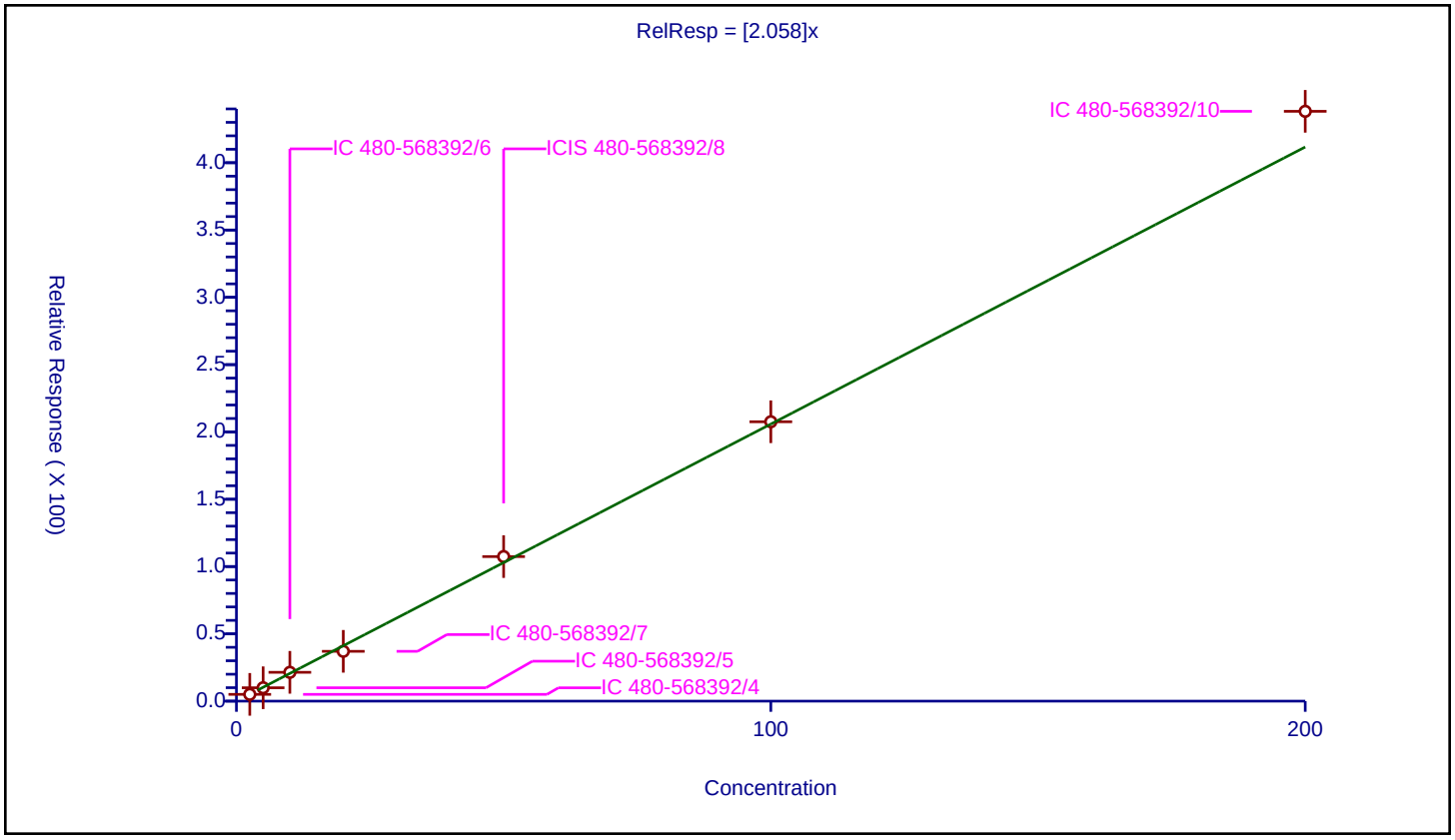
Curve Coefficients

Intercept:	0
Slope:	2.058

Error Coefficients

Standard Error:	2050000
Relative Standard Error:	5.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	5.037657	50.0	445604.0	2.015063	Y
2	IC 480-568392/5	5.0	9.939126	50.0	435159.0	1.987825	Y
3	IC 480-568392/6	10.0	21.409663	50.0	442361.0	2.140966	Y
4	IC 480-568392/7	20.0	37.010958	50.0	457655.0	1.850548	Y
5	ICIS 480-568392/8	50.0	107.396976	50.0	480230.0	2.14794	Y
6	IC 480-568392/9	100.0	207.566806	50.0	494905.0	2.075668	Y
7	IC 480-568392/10	200.0	438.197313	50.0	507986.0	2.190987	Y



Calibration / 1,1,1,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

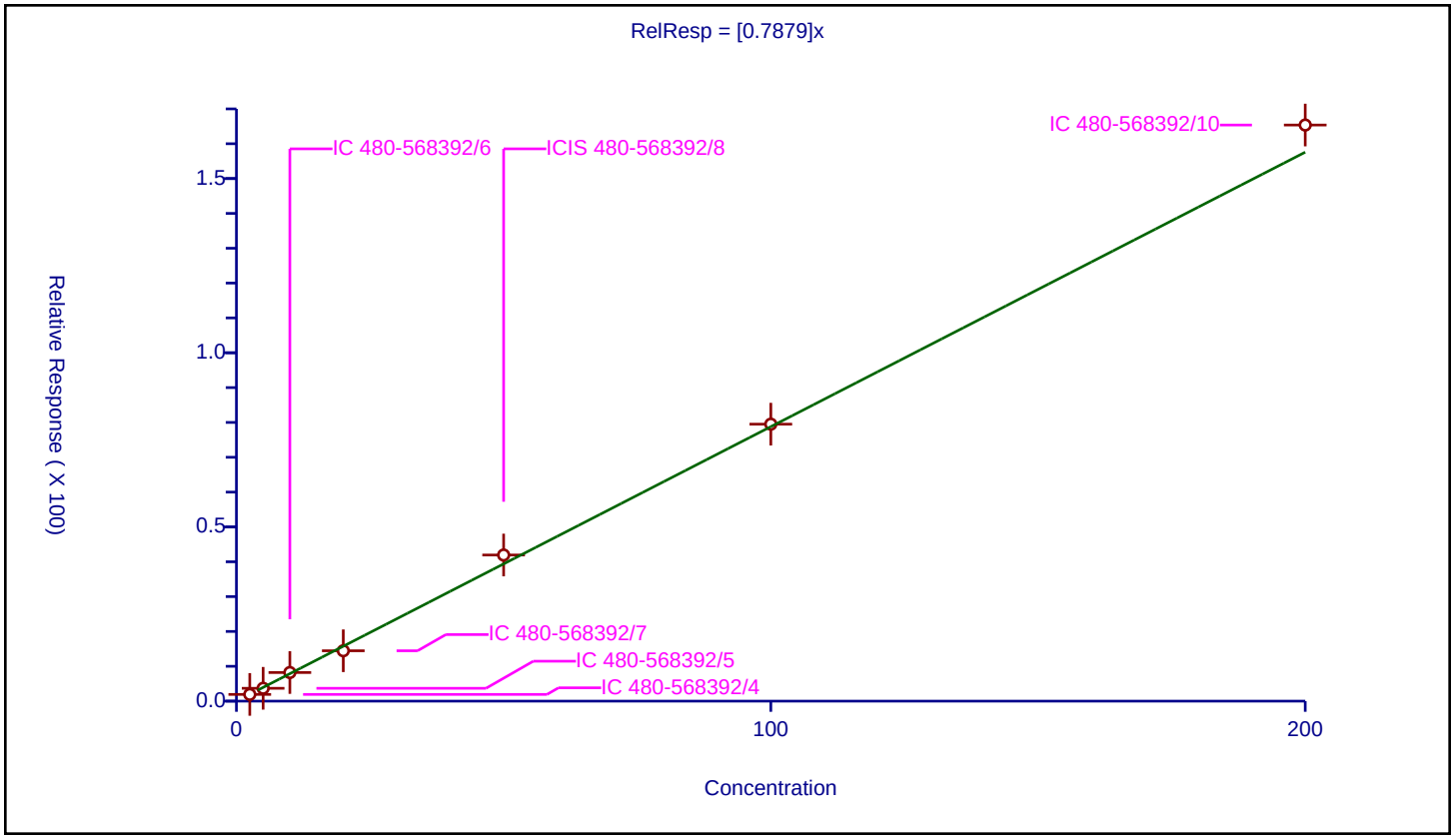
Curve Coefficients

Intercept:	0
Slope:	0.7879

Error Coefficients

Standard Error:	778000
Relative Standard Error:	5.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	1.928955	50.0	445604.0	0.771582	Y
2	IC 480-568392/5	5.0	3.691409	50.0	435159.0	0.738282	Y
3	IC 480-568392/6	10.0	8.215688	50.0	442361.0	0.821569	Y
4	IC 480-568392/7	20.0	14.457397	50.0	457655.0	0.72287	Y
5	ICIS 480-568392/8	50.0	41.94209	50.0	480230.0	0.838842	Y
6	IC 480-568392/9	100.0	79.506976	50.0	494905.0	0.79507	Y
7	IC 480-568392/10	200.0	165.367254	50.0	507986.0	0.826836	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

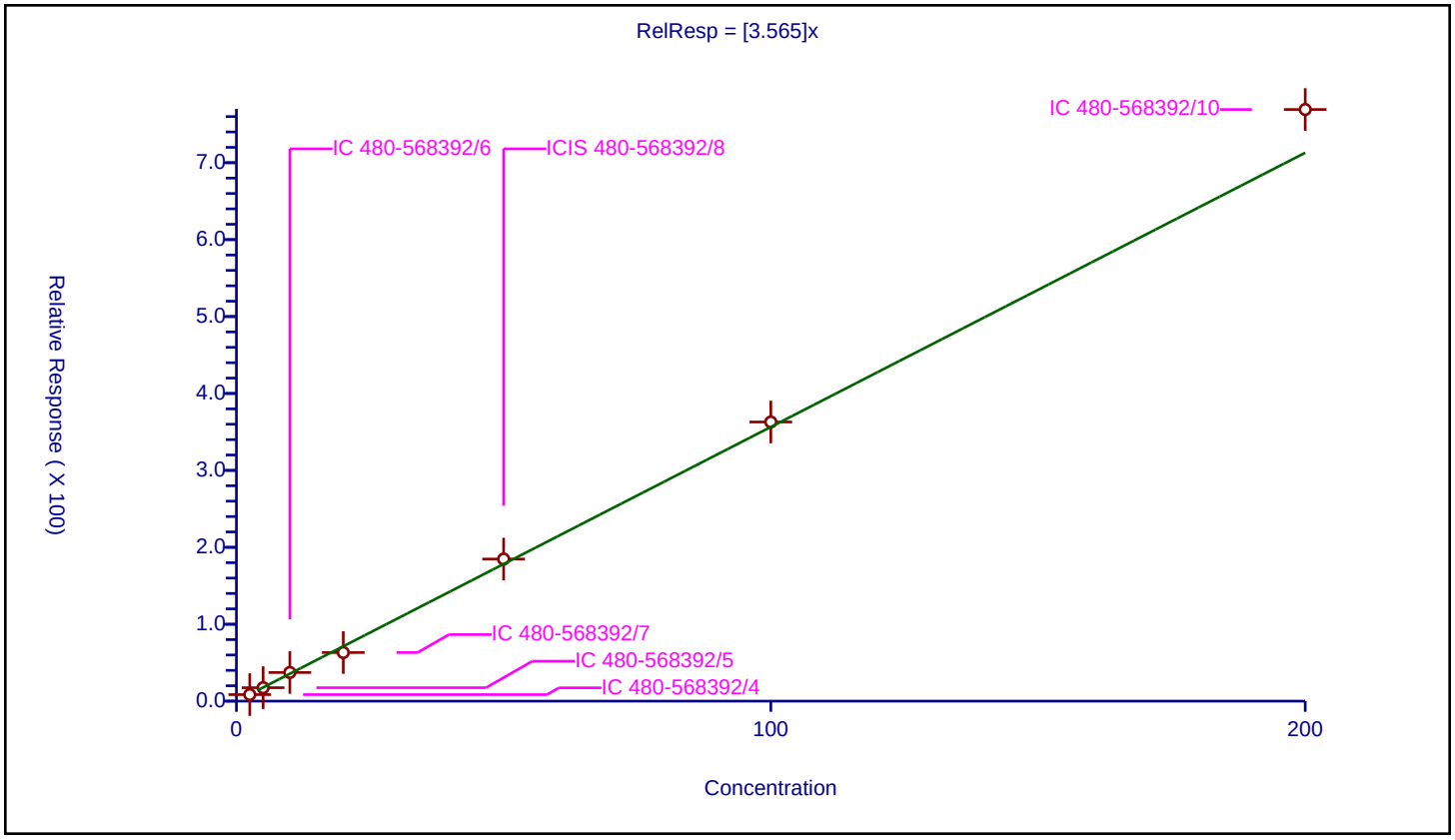
Curve Coefficients

Intercept:	0
Slope:	3.565

Error Coefficients

Standard Error:	3600000
Relative Standard Error:	6.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	8.511257	50.0	445604.0	3.404503	Y
2	IC 480-568392/5	5.0	17.466949	50.0	435159.0	3.49339	Y
3	IC 480-568392/6	10.0	37.255206	50.0	442361.0	3.725521	Y
4	IC 480-568392/7	20.0	63.201211	50.0	457655.0	3.160061	Y
5	ICIS 480-568392/8	50.0	184.725236	50.0	480230.0	3.694505	Y
6	IC 480-568392/9	100.0	362.932583	50.0	494905.0	3.629326	Y
7	IC 480-568392/10	200.0	769.194131	50.0	507986.0	3.845971	Y



Calibration / m-Xylene & p-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

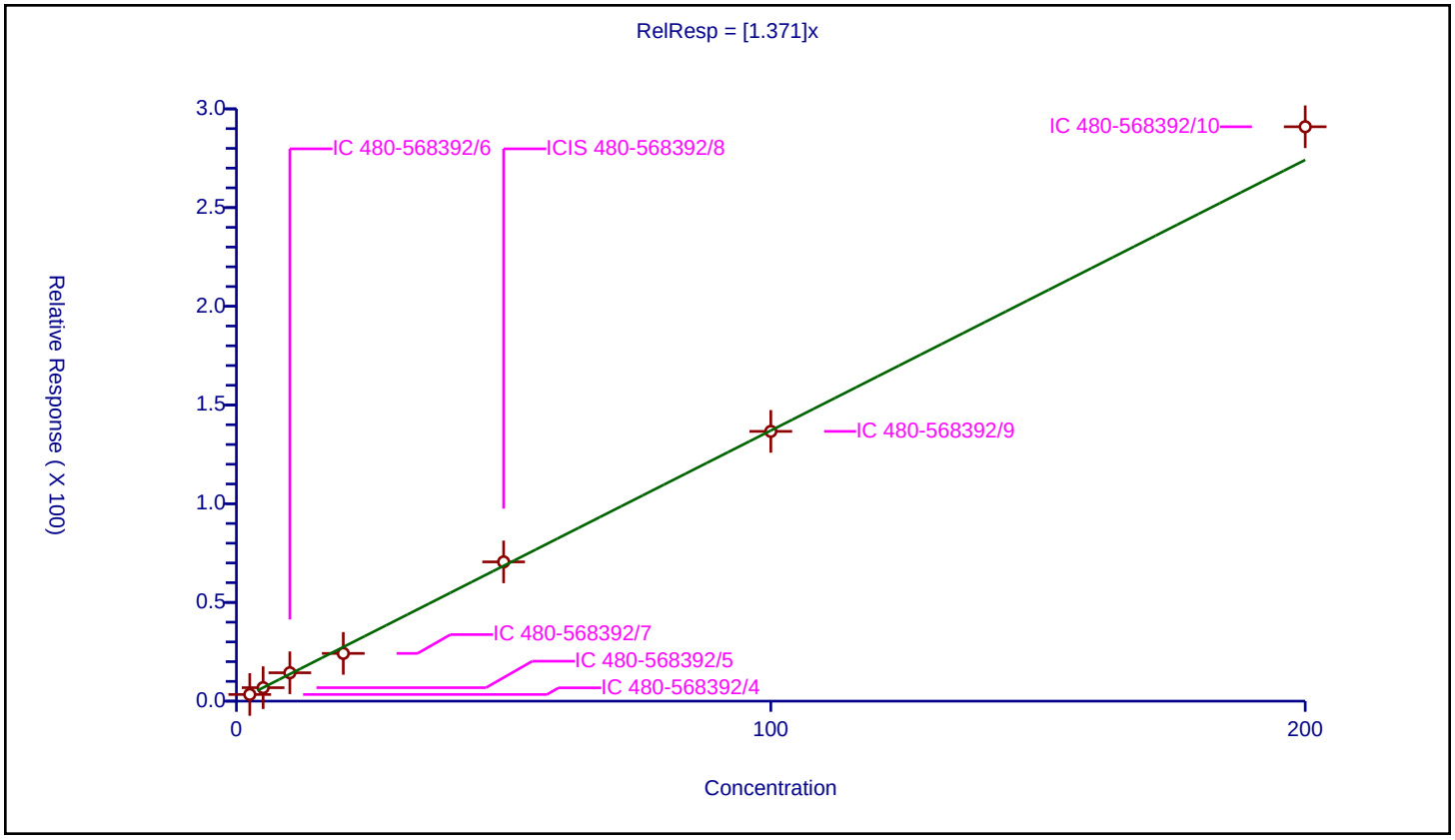
Curve Coefficients

Intercept:	0
Slope:	1.371

Error Coefficients

Standard Error:	1360000
Relative Standard Error:	5.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	3.38159	50.0	445604.0	1.352636	Y
2	IC 480-568392/5	5.0	6.822104	50.0	435159.0	1.364421	Y
3	IC 480-568392/6	10.0	14.369486	50.0	442361.0	1.436949	Y
4	IC 480-568392/7	20.0	24.187762	50.0	457655.0	1.209388	Y
5	ICIS 480-568392/8	50.0	70.534431	50.0	480230.0	1.410689	Y
6	IC 480-568392/9	100.0	136.646629	50.0	494905.0	1.366466	Y
7	IC 480-568392/10	200.0	290.949652	50.0	507986.0	1.454748	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

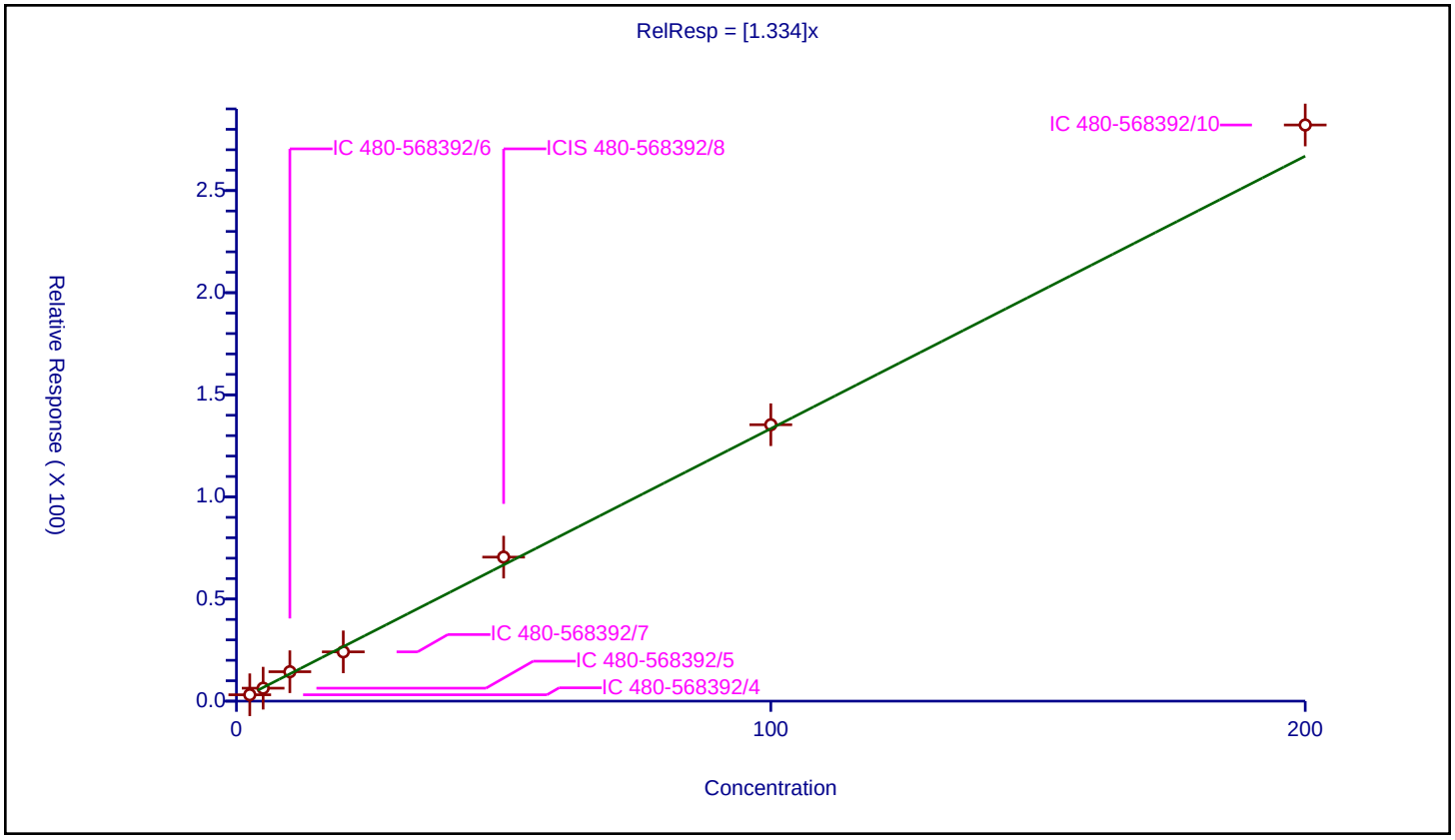
Curve Coefficients

Intercept:	0
Slope:	1.334

Error Coefficients

Standard Error:	1330000
Relative Standard Error:	6.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	3.126767	50.0	445604.0	1.250707	Y
2	IC 480-568392/5	5.0	6.344692	50.0	435159.0	1.268938	Y
3	IC 480-568392/6	10.0	14.398195	50.0	442361.0	1.43982	Y
4	IC 480-568392/7	20.0	24.13237	50.0	457655.0	1.206619	Y
5	ICIS 480-568392/8	50.0	70.517773	50.0	480230.0	1.410355	Y
6	IC 480-568392/9	100.0	135.35628	50.0	494905.0	1.353563	Y
7	IC 480-568392/10	200.0	282.126476	50.0	507986.0	1.410632	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

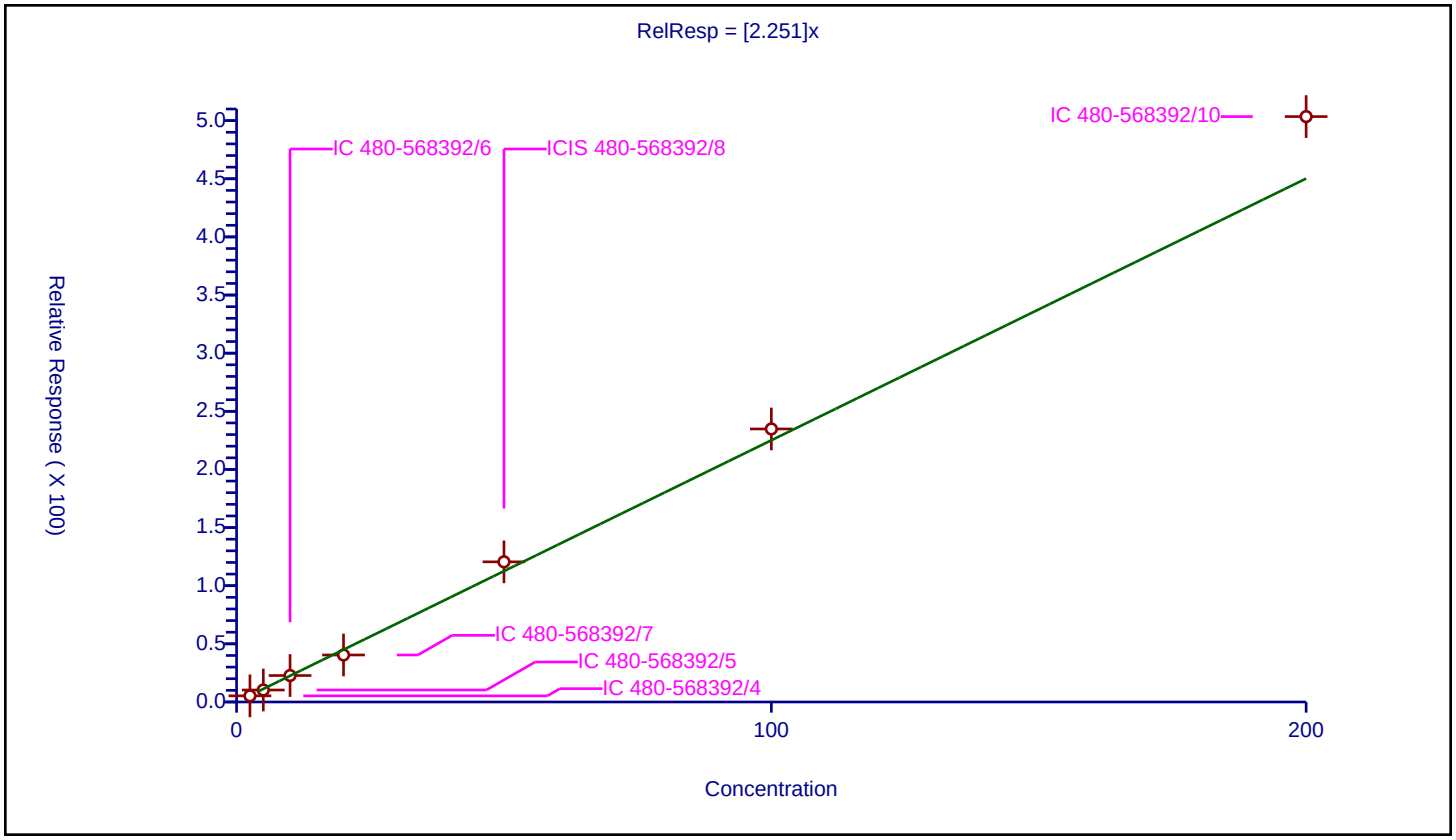
Curve Coefficients

Intercept:	0
Slope:	2.251

Error Coefficients

Standard Error:	2350000
Relative Standard Error:	8.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	5.296182	50.0	445604.0	2.118473	Y
2	IC 480-568392/5	5.0	10.316114	50.0	435159.0	2.063223	Y
3	IC 480-568392/6	10.0	22.774273	50.0	442361.0	2.277427	Y
4	IC 480-568392/7	20.0	40.415378	50.0	457655.0	2.020769	Y
5	ICIS 480-568392/8	50.0	120.545468	50.0	480230.0	2.410909	Y
6	IC 480-568392/9	100.0	234.815874	50.0	494905.0	2.348159	Y
7	IC 480-568392/10	200.0	503.495667	50.0	507986.0	2.517478	Y



Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

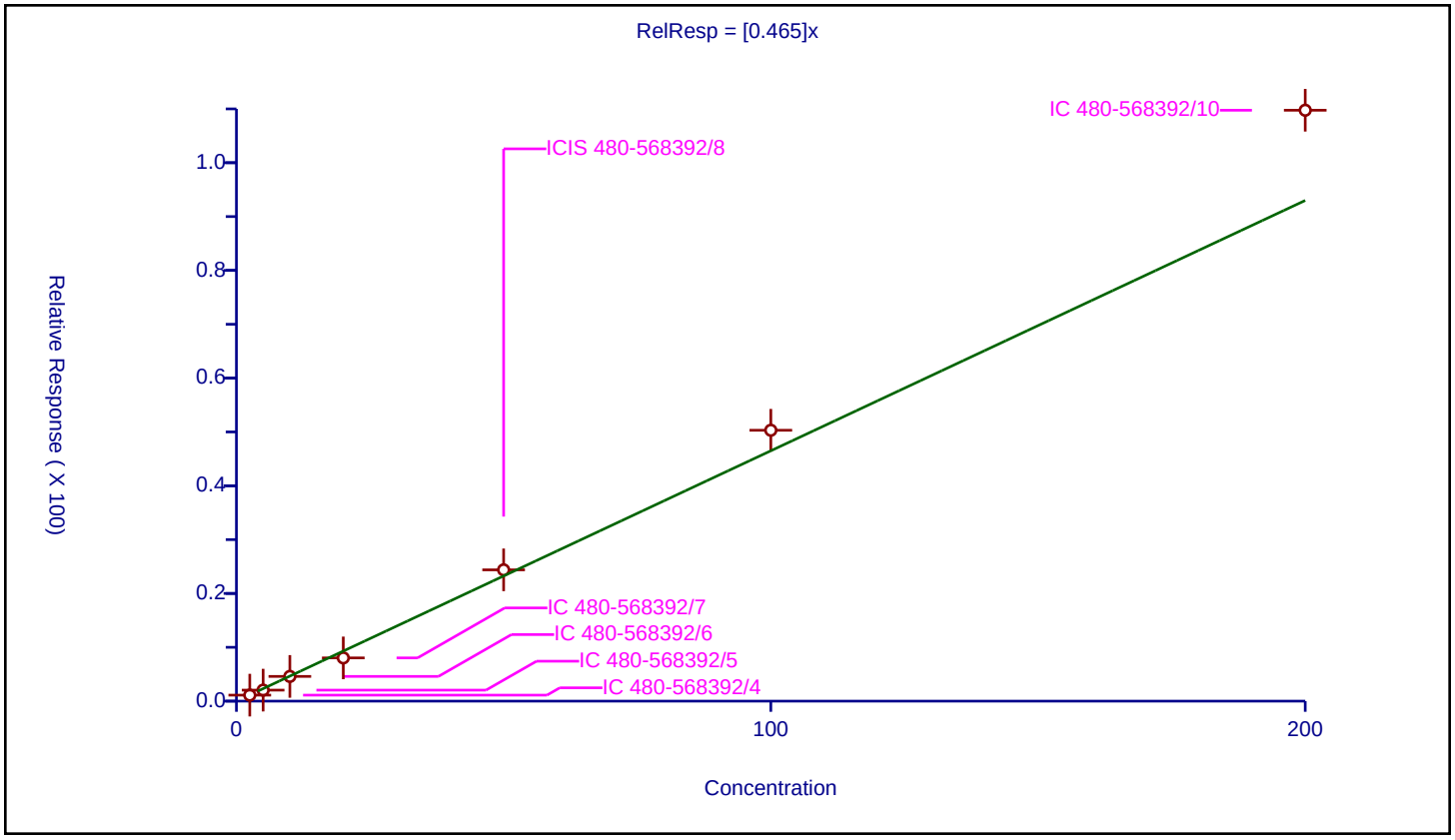
Curve Coefficients

Intercept:	0
Slope:	0.465

Error Coefficients

Standard Error:	509000
Relative Standard Error:	11.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	1.113208	50.0	445604.0	0.445283	Y
2	IC 480-568392/5	5.0	2.045344	50.0	435159.0	0.409069	Y
3	IC 480-568392/6	10.0	4.592403	50.0	442361.0	0.45924	Y
4	IC 480-568392/7	20.0	8.032907	50.0	457655.0	0.401645	Y
5	ICIS 480-568392/8	50.0	24.385295	50.0	480230.0	0.487706	Y
6	IC 480-568392/9	100.0	50.311878	50.0	494905.0	0.503119	Y
7	IC 480-568392/10	200.0	109.748005	50.0	507986.0	0.54874	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

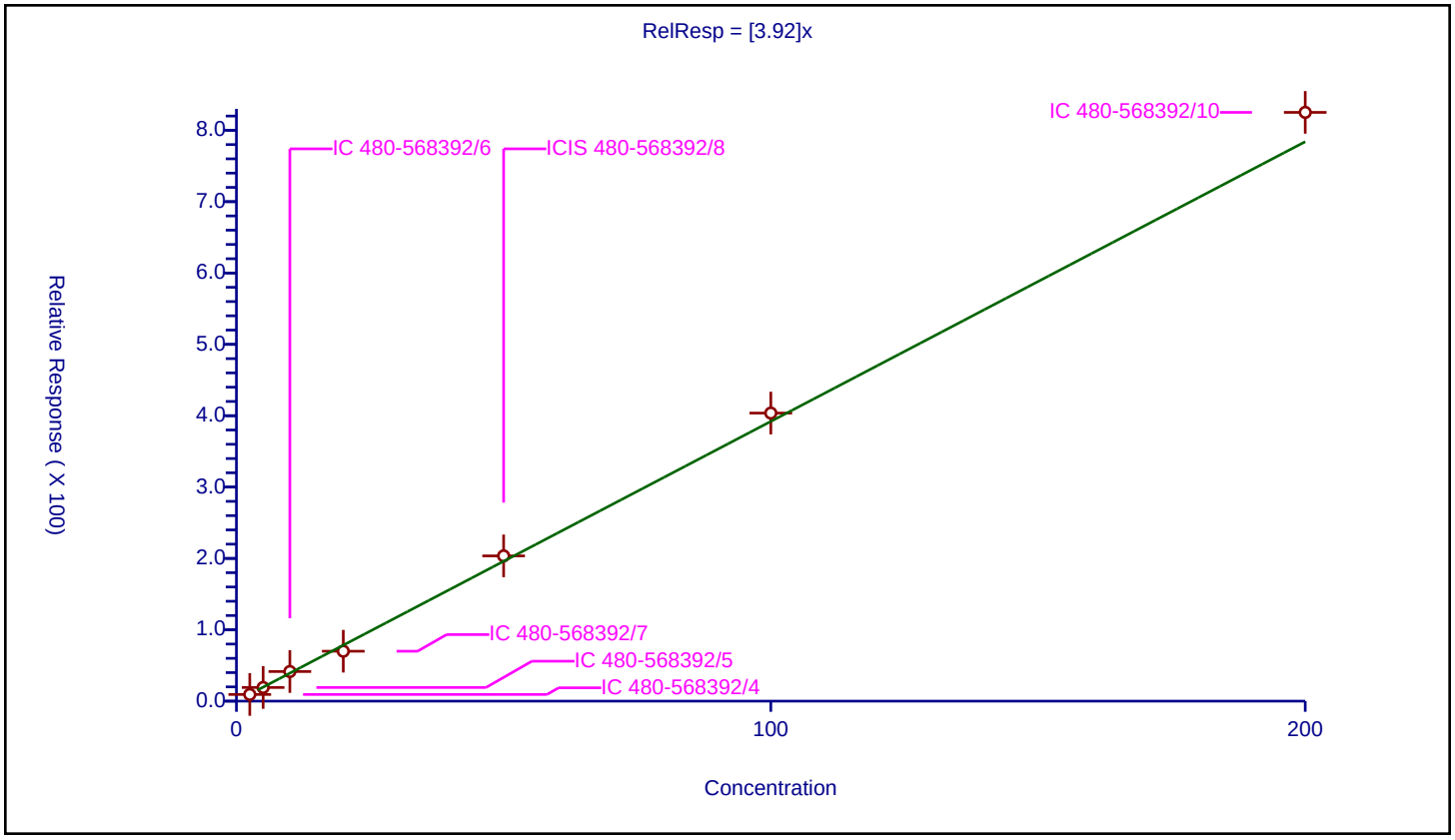
Curve Coefficients

Intercept:	0
Slope:	3.92

Error Coefficients

Standard Error:	3510000
Relative Standard Error:	6.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	9.334547	50.0	392590.0	3.733819	Y
2	IC 480-568392/5	5.0	19.130153	50.0	382182.0	3.826031	Y
3	IC 480-568392/6	10.0	41.478437	50.0	397609.0	4.147844	Y
4	IC 480-568392/7	20.0	69.973275	50.0	405607.0	3.498664	Y
5	ICIS 480-568392/8	50.0	203.56987	50.0	435464.0	4.071397	Y
6	IC 480-568392/9	100.0	403.699955	50.0	441654.0	4.037	Y
7	IC 480-568392/10	200.0	825.099717	50.0	460051.0	4.125499	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

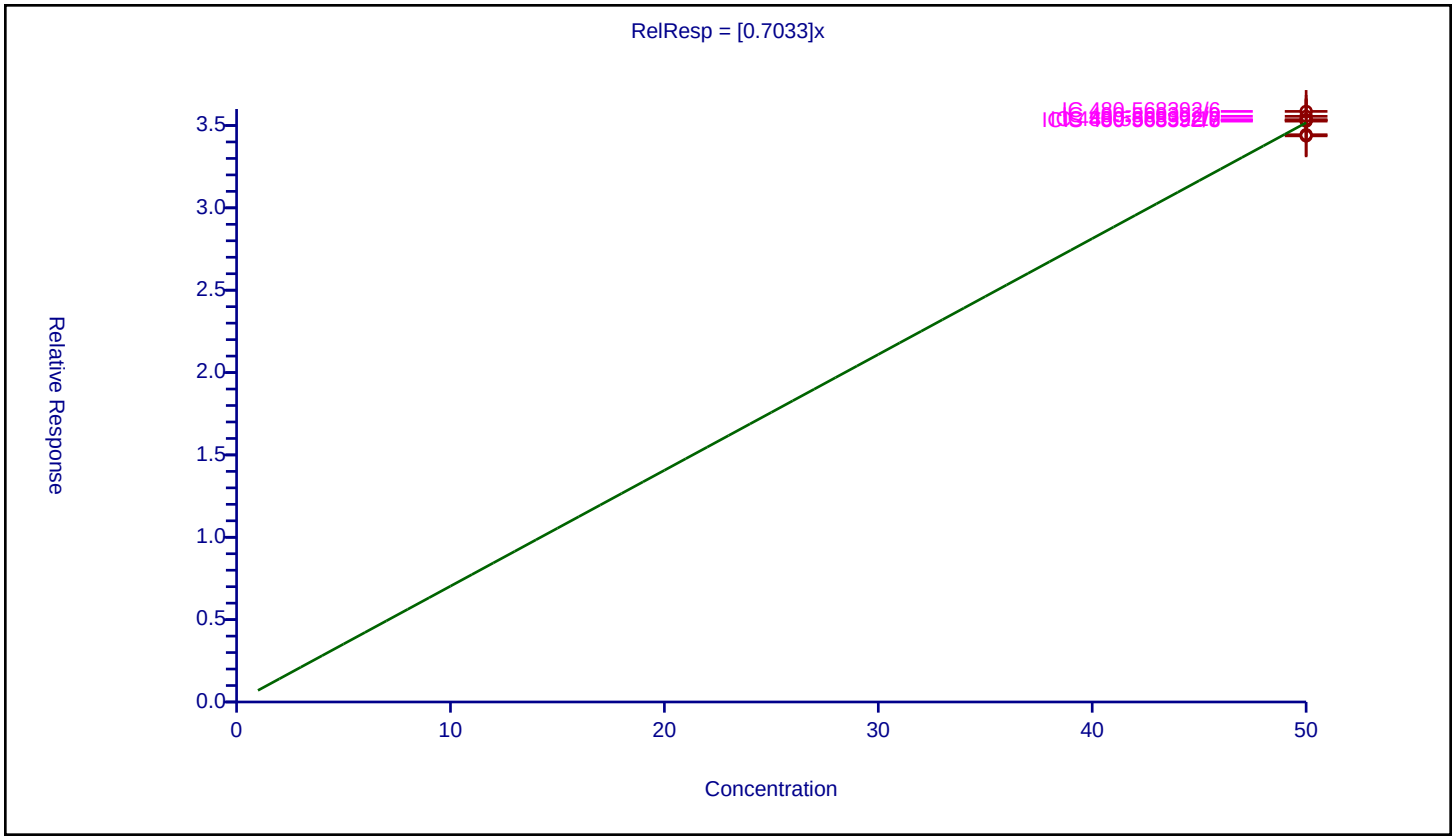
Curve Coefficients

Intercept:	0
Slope:	0.7033

Error Coefficients

Standard Error:	355000
Relative Standard Error:	1.6
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	50.0	34.370091	50.0	445604.0	0.687402	Y
2	IC 480-568392/5	50.0	34.440745	50.0	435159.0	0.688815	Y
3	IC 480-568392/6	50.0	35.855444	50.0	442361.0	0.717109	Y
4	IC 480-568392/7	50.0	35.349117	50.0	457655.0	0.706982	Y
5	ICIS 480-568392/8	50.0	35.264144	50.0	480230.0	0.705283	Y
6	IC 480-568392/9	50.0	35.556723	50.0	494905.0	0.711134	Y
7	IC 480-568392/10	50.0	35.326564	50.0	507986.0	0.706531	Y



Calibration / 1,1,2,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

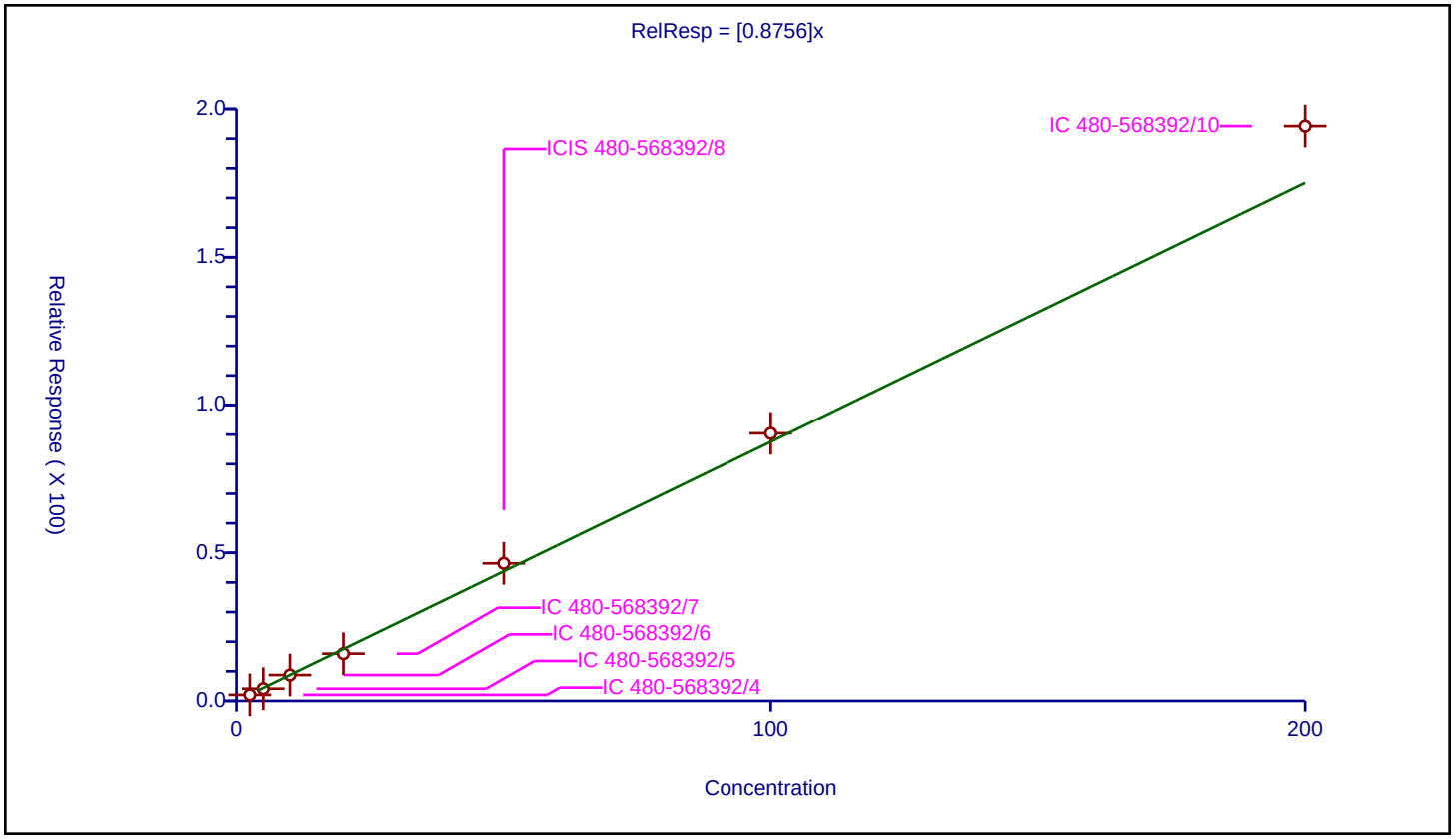
Curve Coefficients

Intercept:	0
Slope:	0.8756

Error Coefficients

Standard Error:	818000
Relative Standard Error:	7.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	2.059655	50.0	392590.0	0.823862	Y
2	IC 480-568392/5	5.0	4.137296	50.0	382182.0	0.827459	Y
3	IC 480-568392/6	10.0	8.750808	50.0	397609.0	0.875081	Y
4	IC 480-568392/7	20.0	15.958428	50.0	405607.0	0.797921	Y
5	ICIS 480-568392/8	50.0	46.46205	50.0	435464.0	0.929241	Y
6	IC 480-568392/9	100.0	90.424178	50.0	441654.0	0.904242	Y
7	IC 480-568392/10	200.0	194.233031	50.0	460051.0	0.971165	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

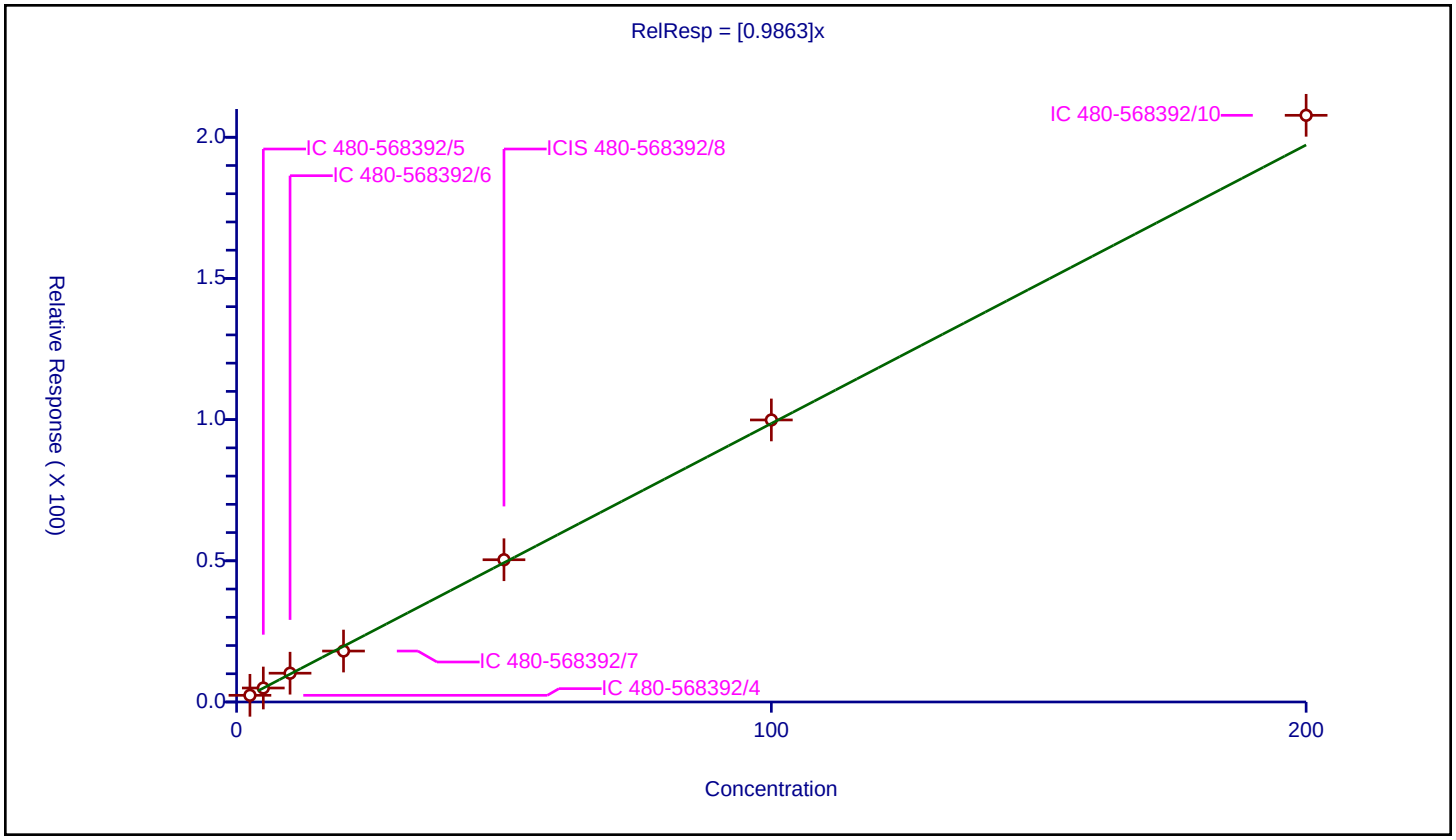
Curve Coefficients

Intercept:	0
Slope:	0.9863

Error Coefficients

Standard Error:	881000
Relative Standard Error:	4.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	2.368629	50.0	392590.0	0.947452	Y
2	IC 480-568392/5	5.0	4.94882	50.0	382182.0	0.989764	Y
3	IC 480-568392/6	10.0	10.196072	50.0	397609.0	1.019607	Y
4	IC 480-568392/7	20.0	18.044437	50.0	405607.0	0.902222	Y
5	ICIS 480-568392/8	50.0	50.376495	50.0	435464.0	1.00753	Y
6	IC 480-568392/9	100.0	99.888261	50.0	441654.0	0.998883	Y
7	IC 480-568392/10	200.0	207.766748	50.0	460051.0	1.038834	Y



Calibration / 1,2,3-Trichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

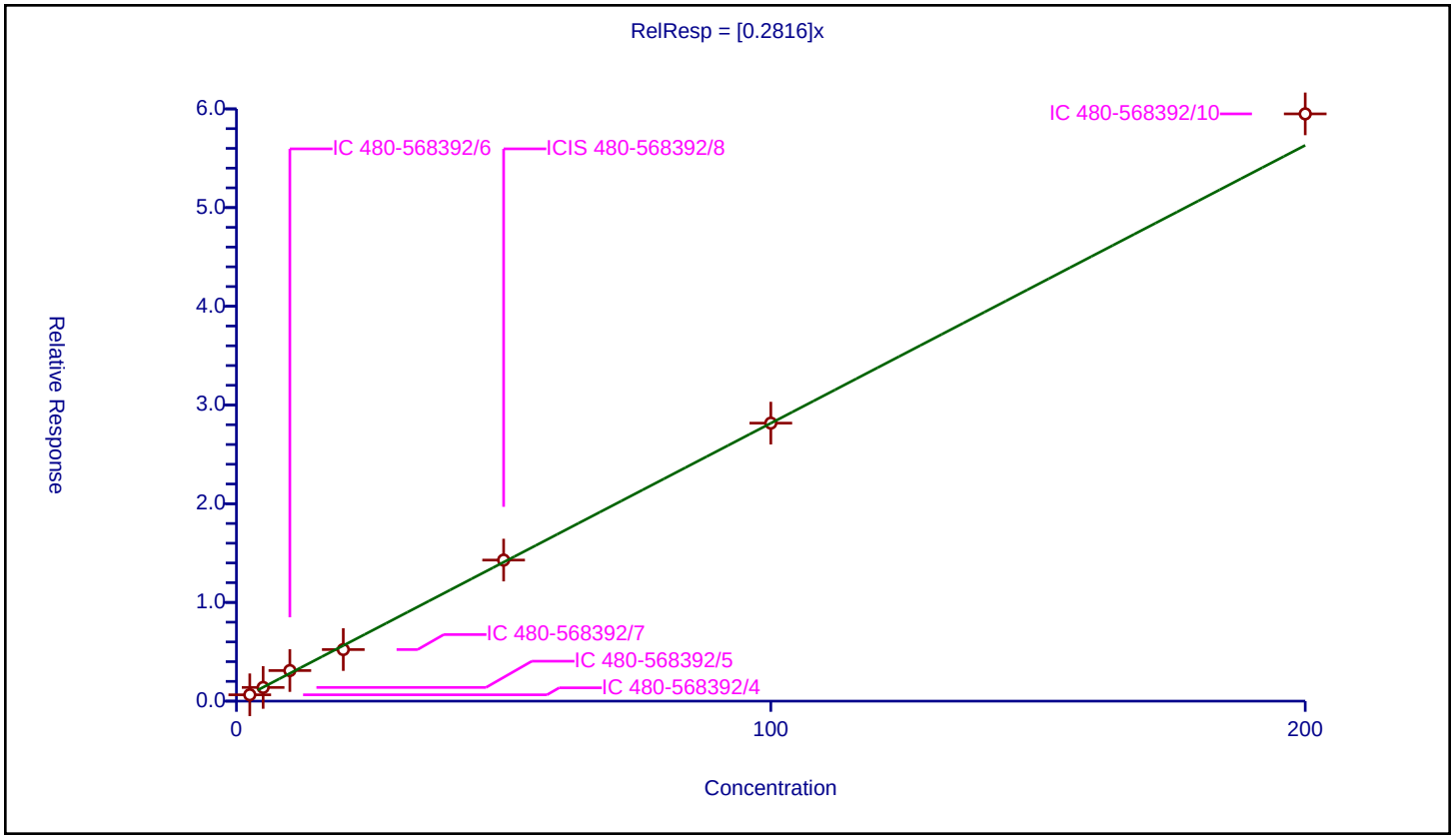
Curve Coefficients

Intercept:	0
Slope:	0.2816

Error Coefficients

Standard Error:	252000
Relative Standard Error:	6.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	0.642273	50.0	392590.0	0.256909	Y
2	IC 480-568392/5	5.0	1.388998	50.0	382182.0	0.2778	Y
3	IC 480-568392/6	10.0	3.10003	50.0	397609.0	0.310003	Y
4	IC 480-568392/7	20.0	5.224022	50.0	405607.0	0.261201	Y
5	ICIS 480-568392/8	50.0	14.291193	50.0	435464.0	0.285824	Y
6	IC 480-568392/9	100.0	28.16594	50.0	441654.0	0.281659	Y
7	IC 480-568392/10	200.0	59.495904	50.0	460051.0	0.29748	Y



Calibration / trans-1,4-Dichloro-2-butene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

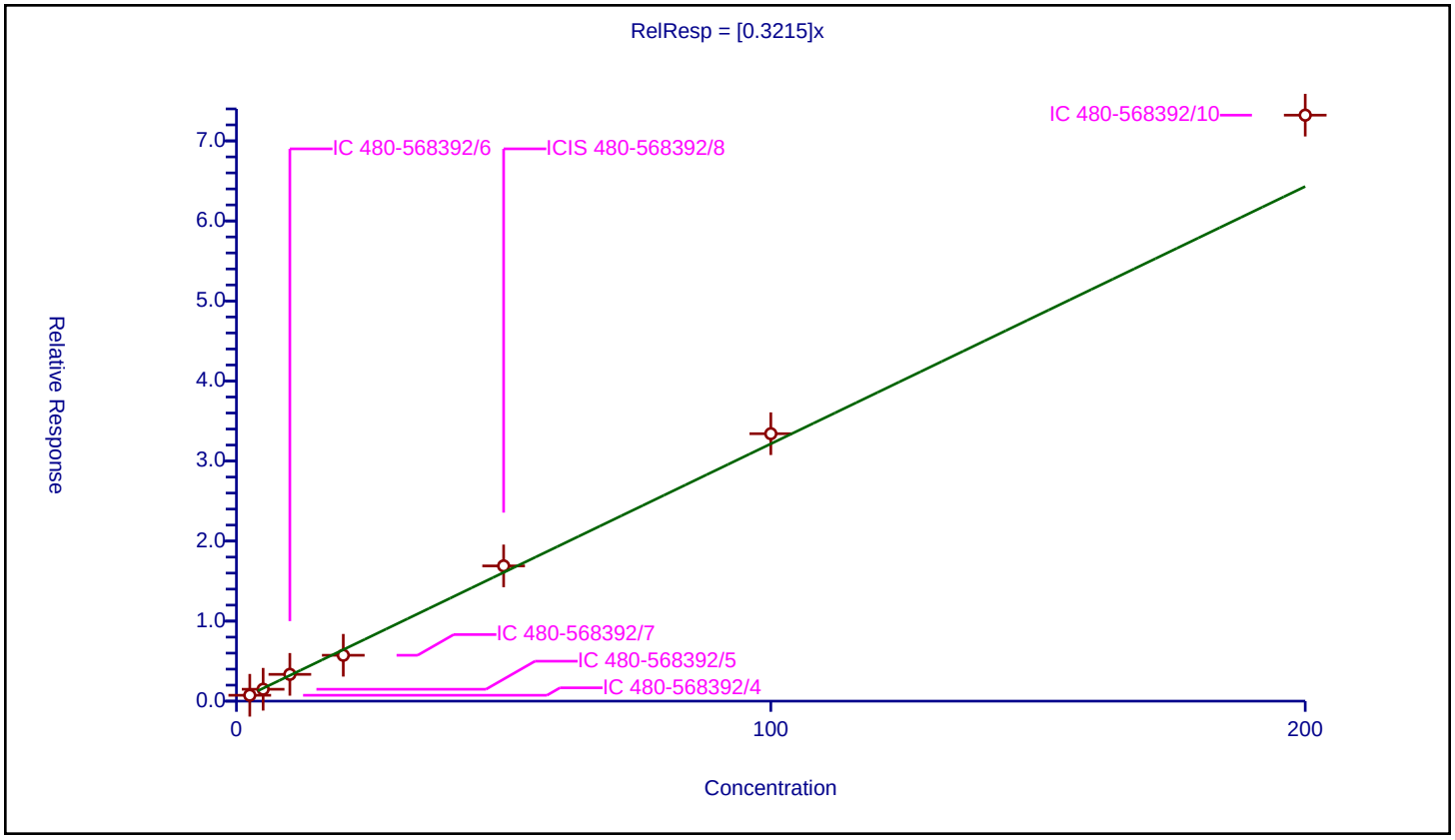
Curve Coefficients

Intercept:	0
Slope:	0.3215

Error Coefficients

Standard Error:	307000
Relative Standard Error:	9.1
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	0.734354	50.0	392590.0	0.293742	Y
2	IC 480-568392/5	5.0	1.48725	50.0	382182.0	0.29745	Y
3	IC 480-568392/6	10.0	3.346881	50.0	397609.0	0.334688	Y
4	IC 480-568392/7	20.0	5.730917	50.0	405607.0	0.286546	Y
5	ICIS 480-568392/8	50.0	16.898871	50.0	435464.0	0.337977	Y
6	IC 480-568392/9	100.0	33.41677	50.0	441654.0	0.334168	Y
7	IC 480-568392/10	200.0	73.219491	50.0	460051.0	0.366097	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

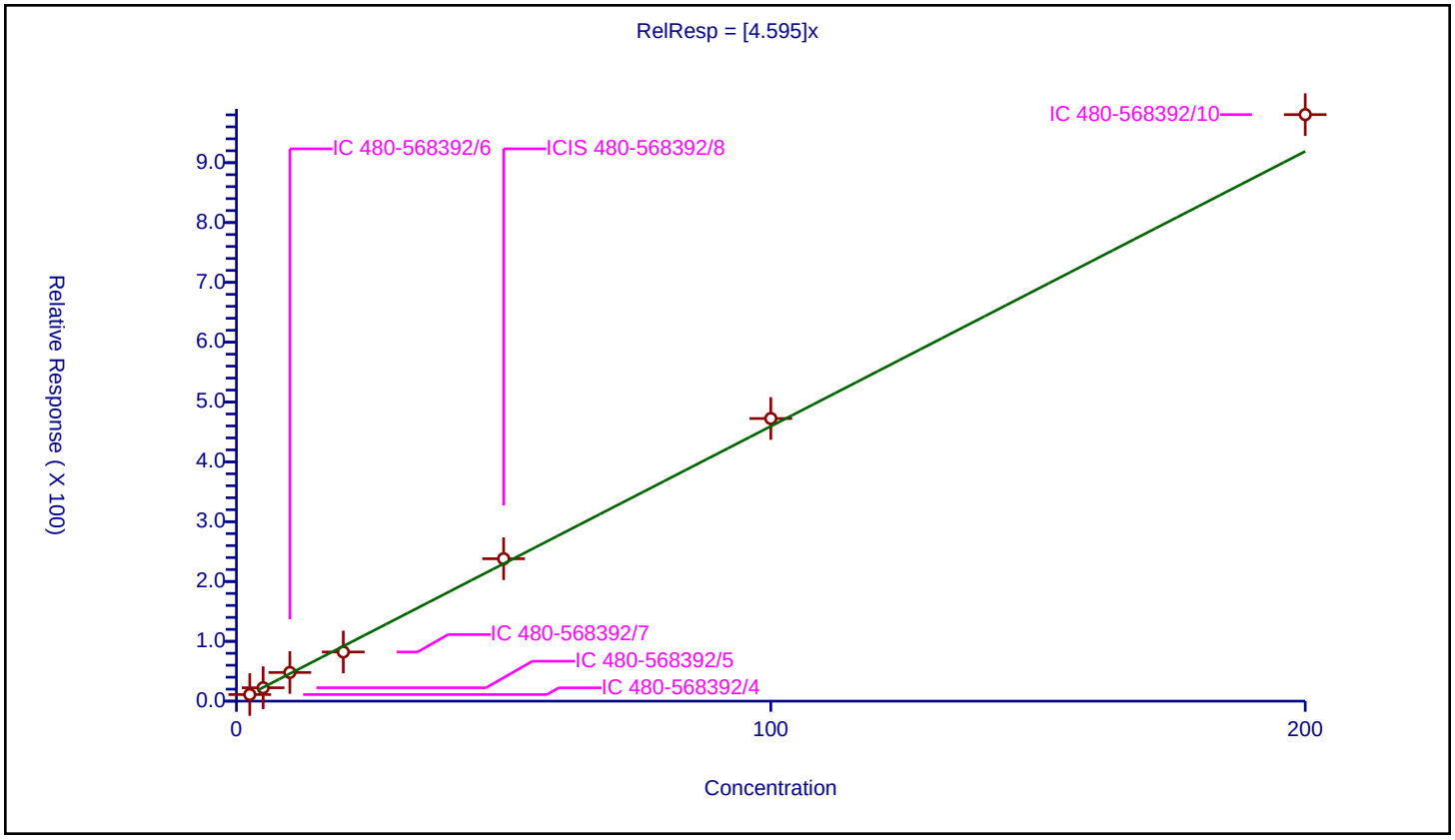
Curve Coefficients

Intercept:	0
Slope:	4.595

Error Coefficients

Standard Error:	4160000
Relative Standard Error:	6.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	11.009577	50.0	392590.0	4.403831	Y
2	IC 480-568392/5	5.0	22.360943	50.0	382182.0	4.472189	Y
3	IC 480-568392/6	10.0	47.929499	50.0	397609.0	4.79295	Y
4	IC 480-568392/7	20.0	82.158469	50.0	405607.0	4.107923	Y
5	ICIS 480-568392/8	50.0	238.026909	50.0	435464.0	4.760538	Y
6	IC 480-568392/9	100.0	472.460116	50.0	441654.0	4.724601	Y
7	IC 480-568392/10	200.0	980.427496	50.0	460051.0	4.902137	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

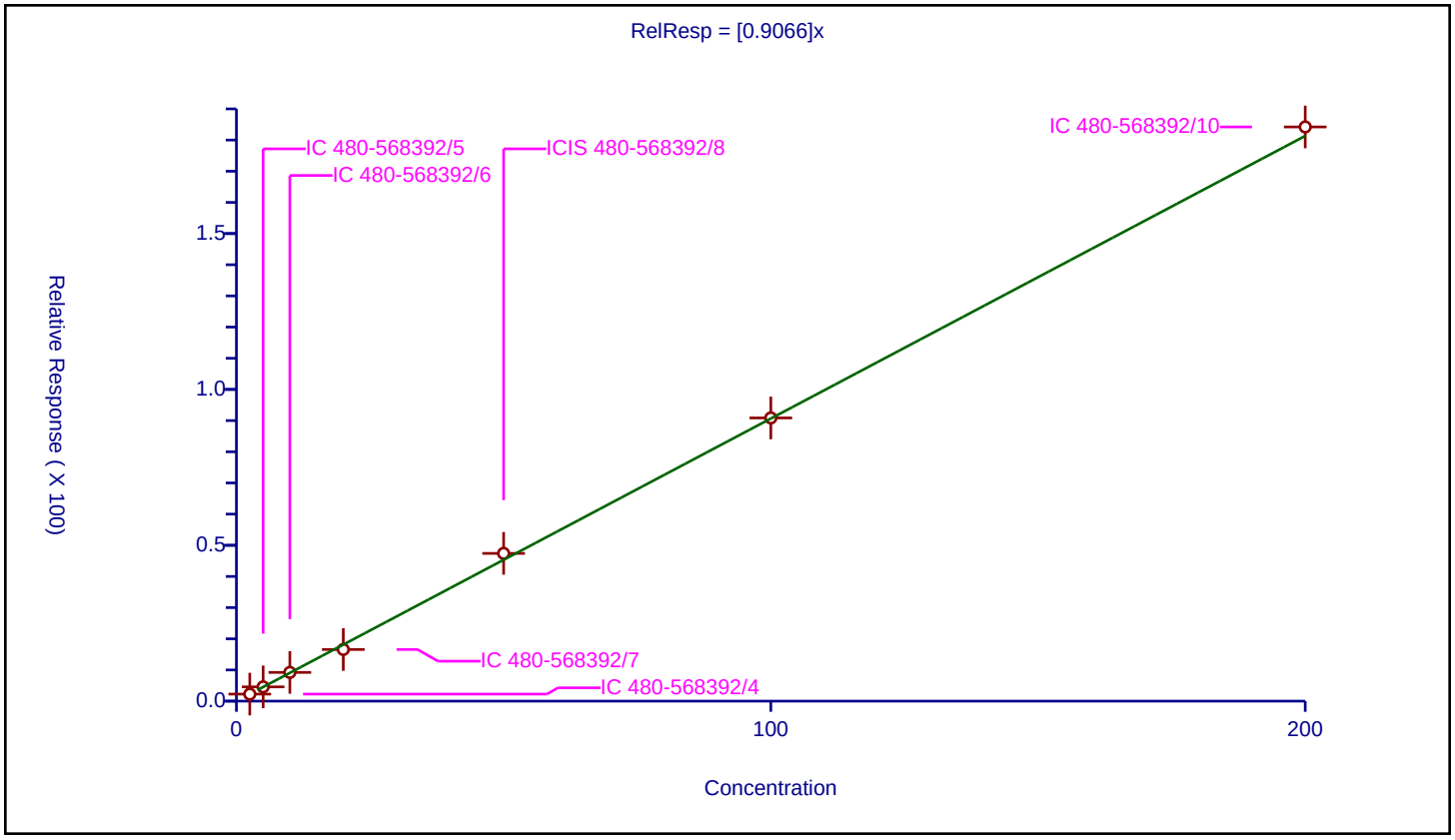
Curve Coefficients

Intercept:	0
Slope:	0.9066

Error Coefficients

Standard Error:	786000
Relative Standard Error:	4.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	2.259482	50.0	392590.0	0.903793	Y
2	IC 480-568392/5	5.0	4.574915	50.0	382182.0	0.914983	Y
3	IC 480-568392/6	10.0	9.214832	50.0	397609.0	0.921483	Y
4	IC 480-568392/7	20.0	16.570227	50.0	405607.0	0.828511	Y
5	ICIS 480-568392/8	50.0	47.400933	50.0	435464.0	0.948019	Y
6	IC 480-568392/9	100.0	90.858455	50.0	441654.0	0.908585	Y
7	IC 480-568392/10	200.0	184.203164	50.0	460051.0	0.921016	Y



Calibration / 1,3,5-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

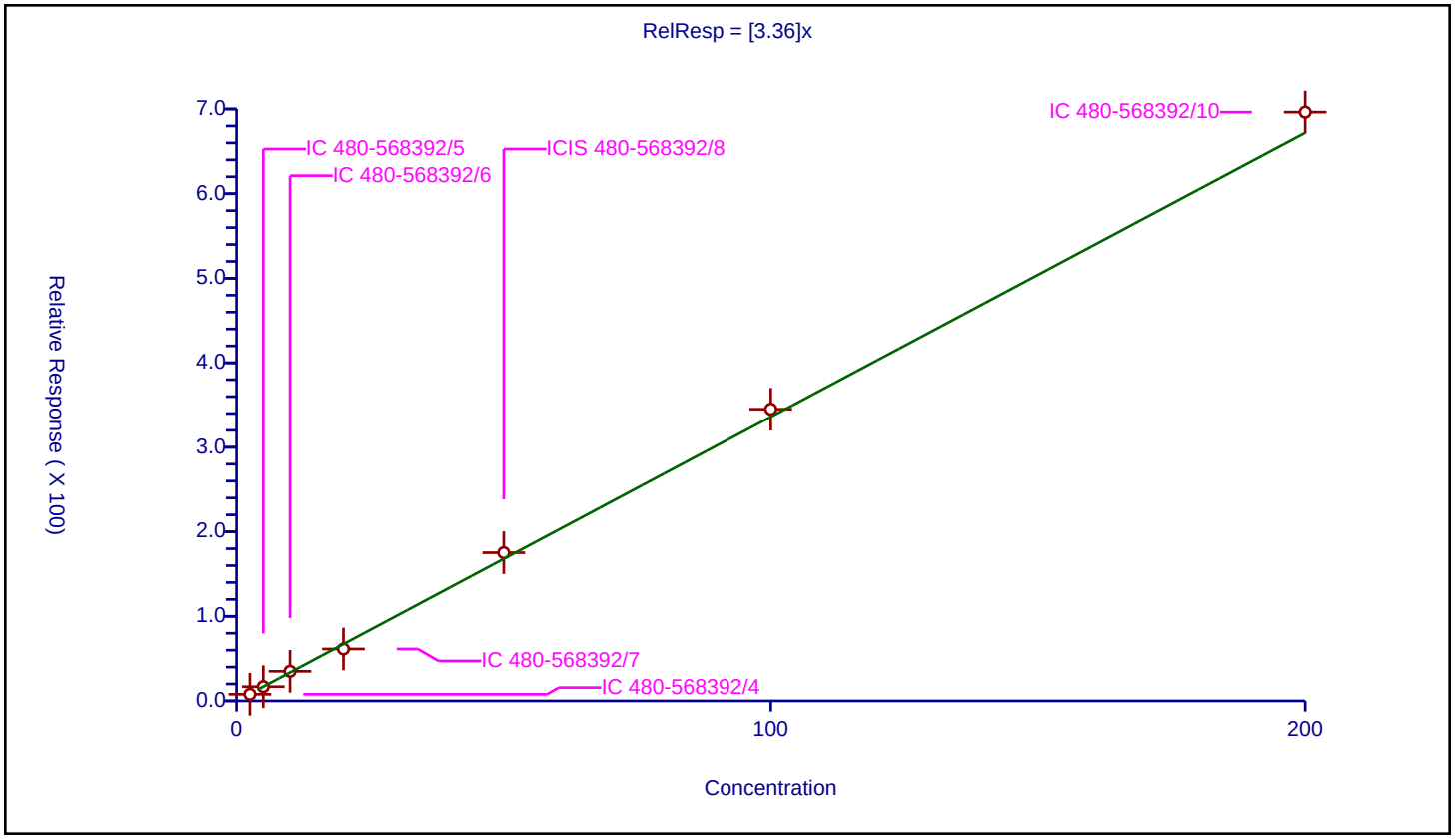
Curve Coefficients

Intercept:	0
Slope:	3.36

Error Coefficients

Standard Error:	2970000
Relative Standard Error:	5.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	7.860363	50.0	392590.0	3.144145	Y
2	IC 480-568392/5	5.0	16.823922	50.0	382182.0	3.364784	Y
3	IC 480-568392/6	10.0	35.0314	50.0	397609.0	3.50314	Y
4	IC 480-568392/7	20.0	61.390583	50.0	405607.0	3.069529	Y
5	ICIS 480-568392/8	50.0	175.295662	50.0	435464.0	3.505913	Y
6	IC 480-568392/9	100.0	345.059594	50.0	441654.0	3.450596	Y
7	IC 480-568392/10	200.0	696.298889	50.0	460051.0	3.481494	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

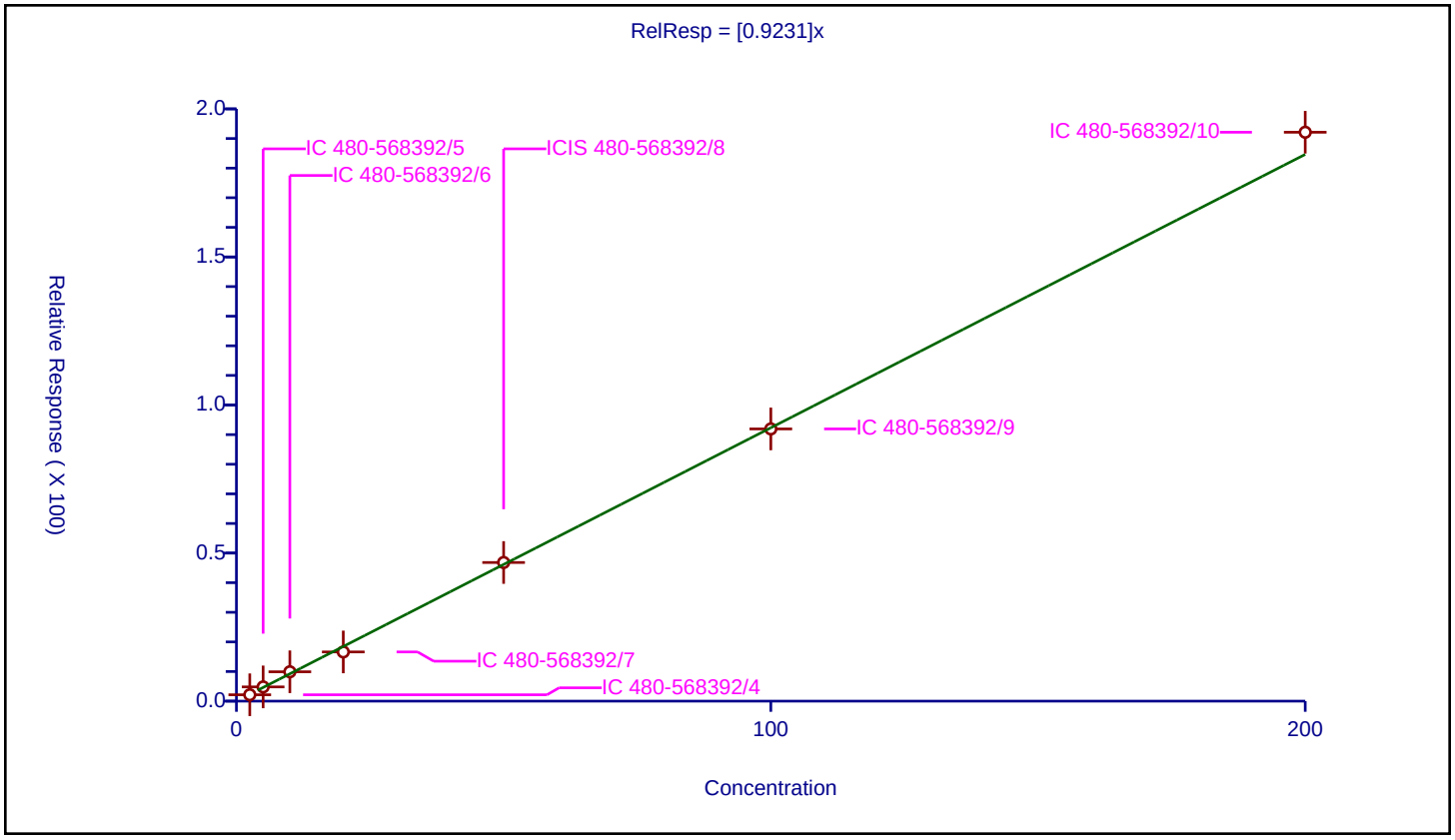
Curve Coefficients

Intercept:	0
Slope:	0.9231

Error Coefficients

Standard Error:	814000
Relative Standard Error:	6.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	2.156576	50.0	392590.0	0.86263	Y
2	IC 480-568392/5	5.0	4.80491	50.0	382182.0	0.960982	Y
3	IC 480-568392/6	10.0	9.91464	50.0	397609.0	0.991464	Y
4	IC 480-568392/7	20.0	16.613988	50.0	405607.0	0.830699	Y
5	ICIS 480-568392/8	50.0	46.821896	50.0	435464.0	0.936438	Y
6	IC 480-568392/9	100.0	91.925919	50.0	441654.0	0.919259	Y
7	IC 480-568392/10	200.0	192.112505	50.0	460051.0	0.960563	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

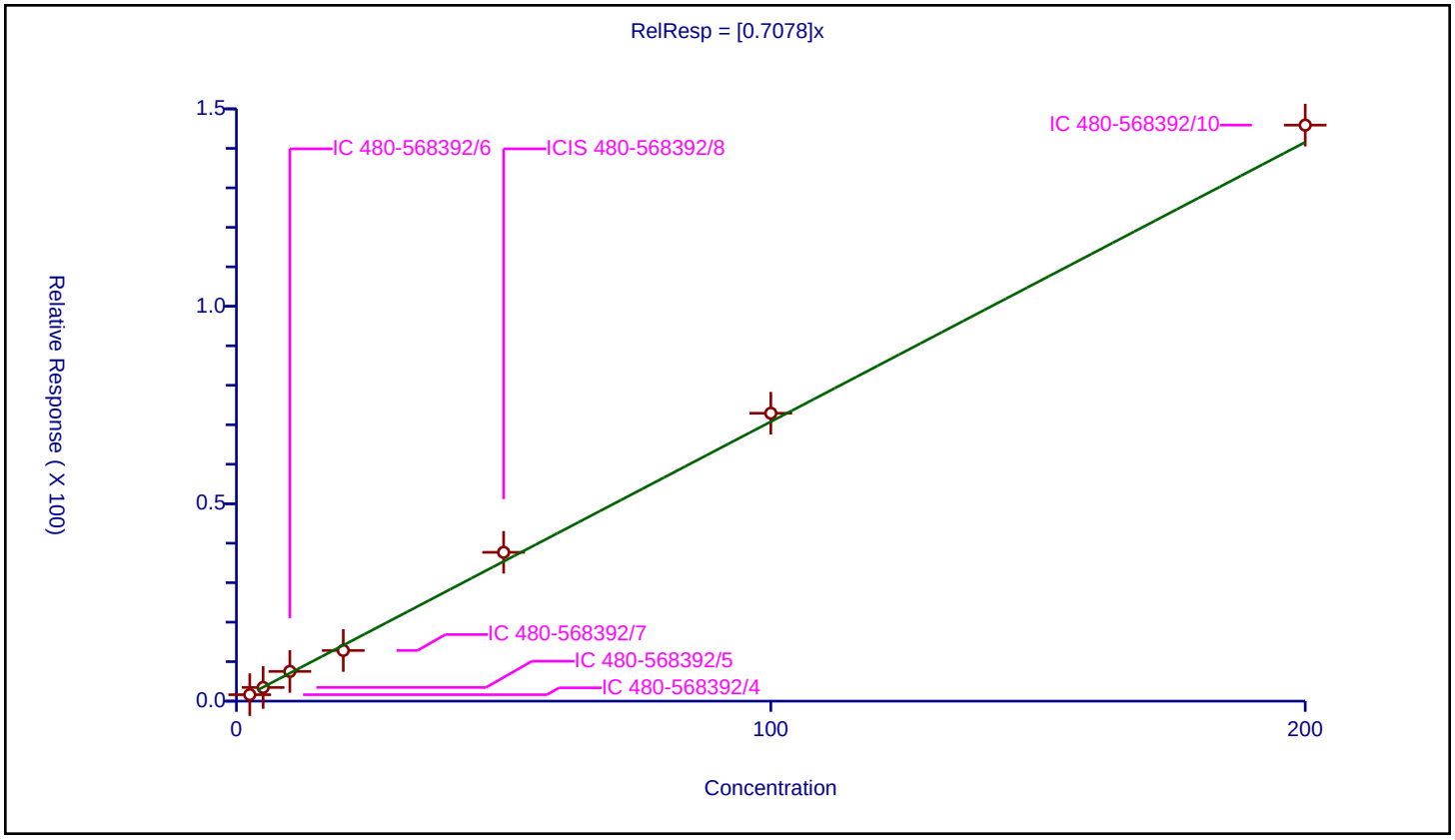
Curve Coefficients

Intercept:	0
Slope:	0.7078

Error Coefficients

Standard Error:	624000
Relative Standard Error:	6.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	1.637332	50.0	392590.0	0.654933	Y
2	IC 480-568392/5	5.0	3.461178	50.0	382182.0	0.692236	Y
3	IC 480-568392/6	10.0	7.532903	50.0	397609.0	0.75329	Y
4	IC 480-568392/7	20.0	12.835824	50.0	405607.0	0.641791	Y
5	ICIS 480-568392/8	50.0	37.692553	50.0	435464.0	0.753851	Y
6	IC 480-568392/9	100.0	72.915336	50.0	441654.0	0.729153	Y
7	IC 480-568392/10	200.0	145.891216	50.0	460051.0	0.729456	Y



Calibration / 1,2,4-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

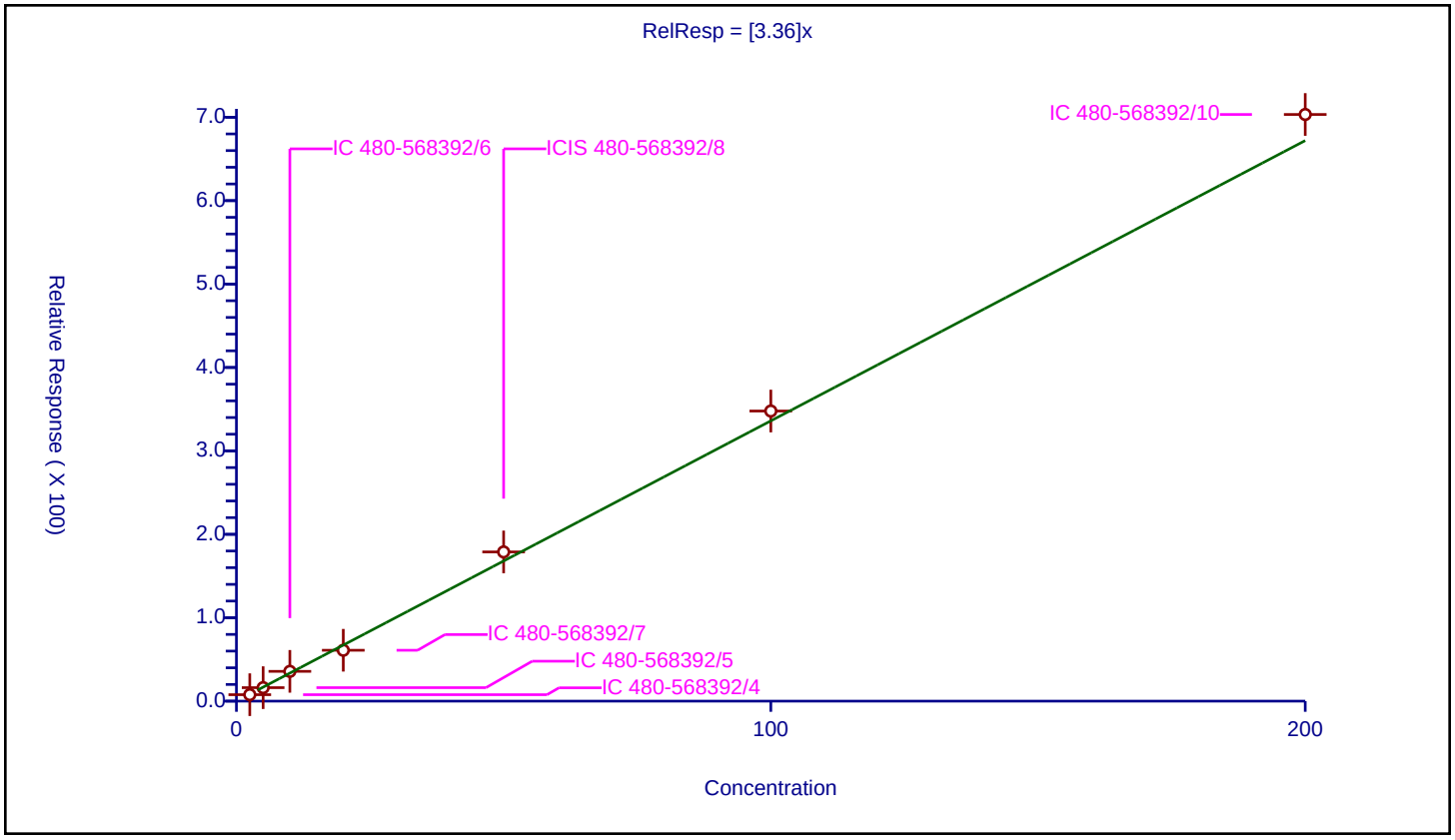
Curve Coefficients

Intercept:	0
Slope:	3.36

Error Coefficients

Standard Error:	3000000
Relative Standard Error:	6.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	7.72982	50.0	392590.0	3.091928	Y
2	IC 480-568392/5	5.0	16.177763	50.0	382182.0	3.235553	Y
3	IC 480-568392/6	10.0	35.70807	50.0	397609.0	3.570807	Y
4	IC 480-568392/7	20.0	60.994386	50.0	405607.0	3.049719	Y
5	ICIS 480-568392/8	50.0	178.891596	50.0	435464.0	3.577832	Y
6	IC 480-568392/9	100.0	347.79771	50.0	441654.0	3.477977	Y
7	IC 480-568392/10	200.0	703.297026	50.0	460051.0	3.516485	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

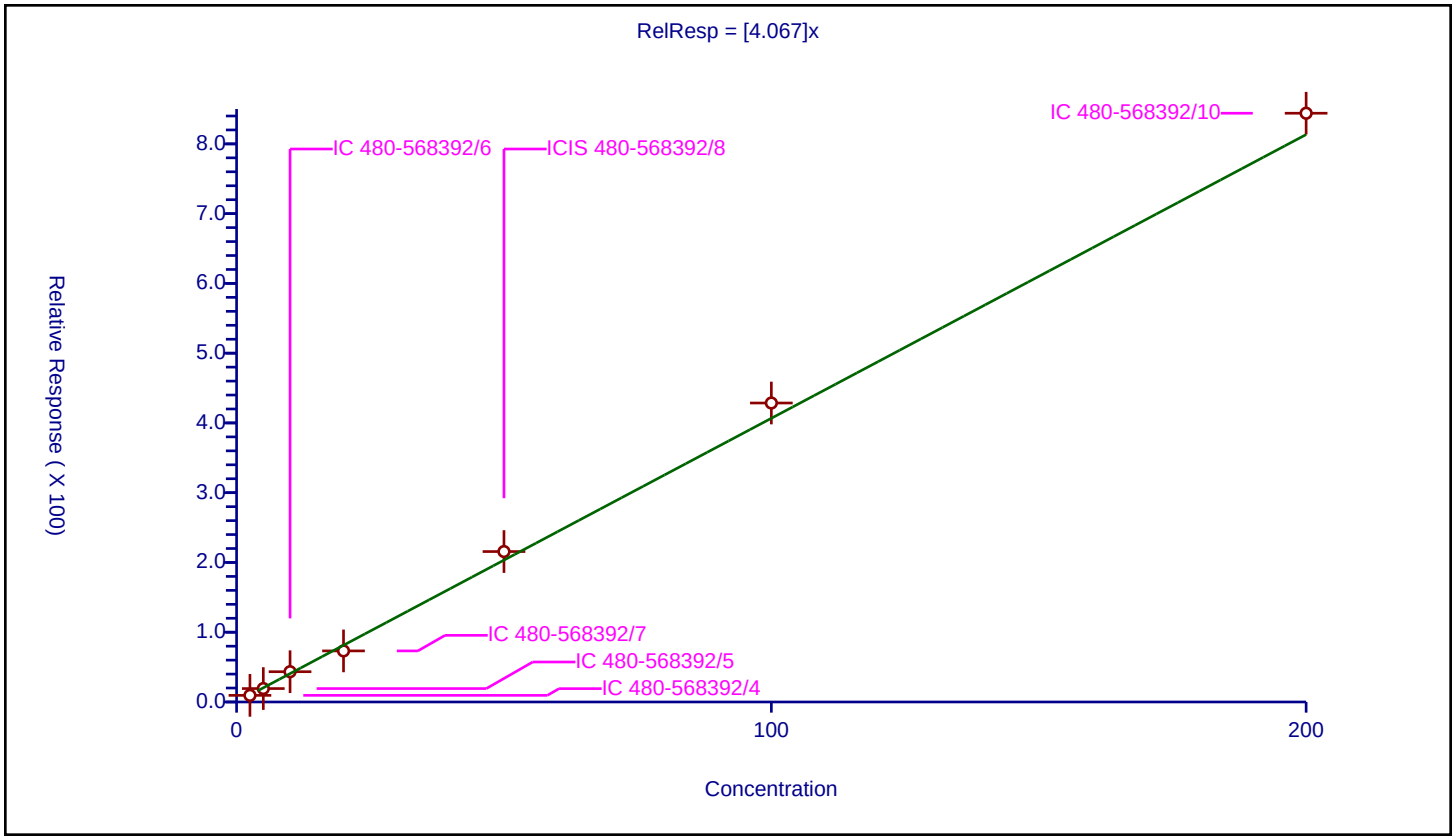
Curve Coefficients

Intercept:	0
Slope:	4.067

Error Coefficients

Standard Error:	3620000
Relative Standard Error:	7.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	9.507247	50.0	392590.0	3.802899	Y
2	IC 480-568392/5	5.0	19.228928	50.0	382182.0	3.845786	Y
3	IC 480-568392/6	10.0	43.404576	50.0	397609.0	4.340458	Y
4	IC 480-568392/7	20.0	73.210645	50.0	405607.0	3.660532	Y
5	ICIS 480-568392/8	50.0	215.644347	50.0	435464.0	4.312887	Y
6	IC 480-568392/9	100.0	428.547687	50.0	441654.0	4.285477	Y
7	IC 480-568392/10	200.0	843.965995	50.0	460051.0	4.21983	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

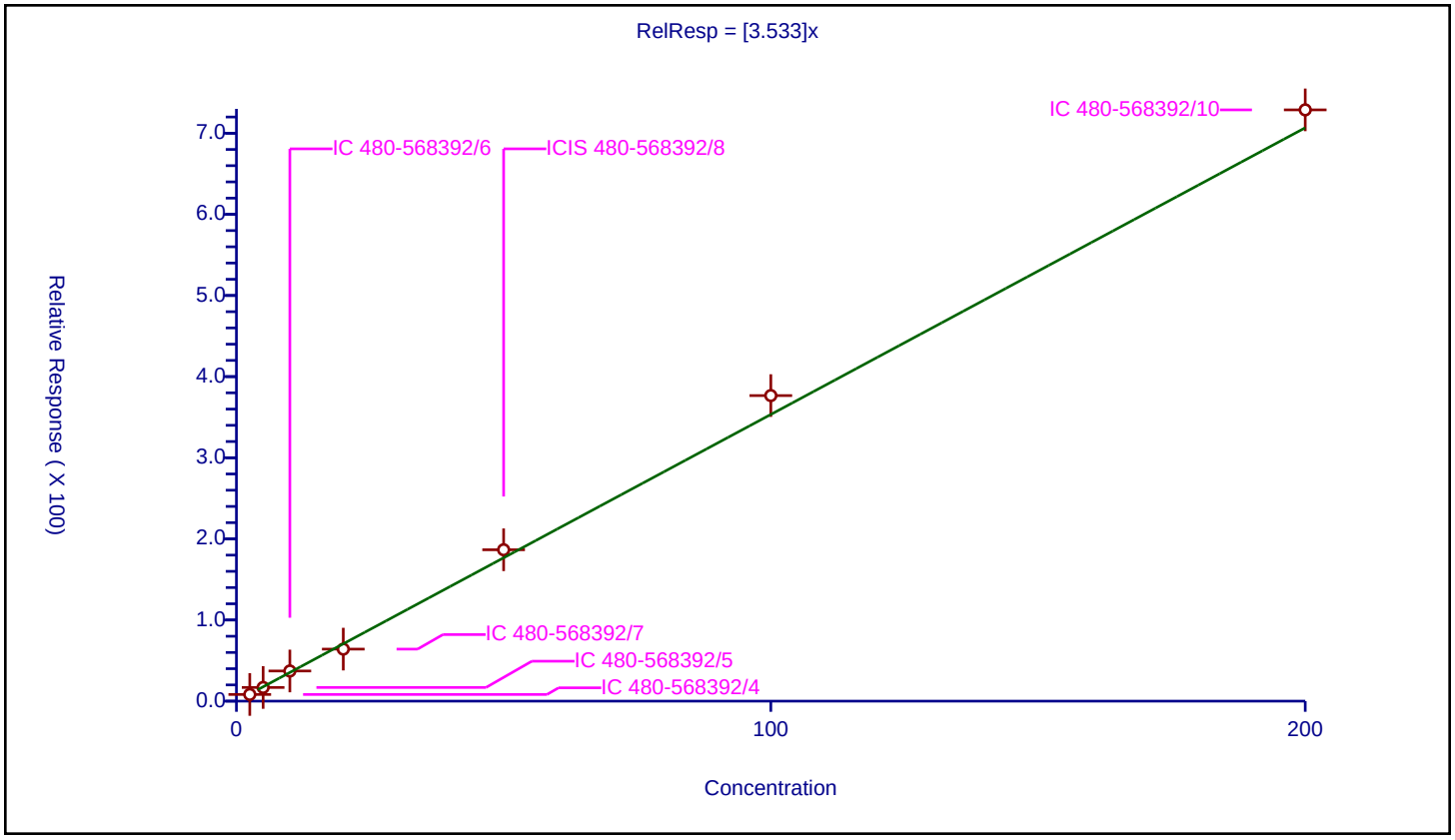
Curve Coefficients

Intercept:	0
Slope:	3.533

Error Coefficients

Standard Error:	3140000
Relative Standard Error:	6.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	8.23913	50.0	392590.0	3.295652	Y
2	IC 480-568392/5	5.0	16.862908	50.0	382182.0	3.372582	Y
3	IC 480-568392/6	10.0	37.176221	50.0	397609.0	3.717622	Y
4	IC 480-568392/7	20.0	64.132276	50.0	405607.0	3.206614	Y
5	ICIS 480-568392/8	50.0	186.591544	50.0	435464.0	3.731831	Y
6	IC 480-568392/9	100.0	376.626047	50.0	441654.0	3.76626	Y
7	IC 480-568392/10	200.0	728.783874	50.0	460051.0	3.643919	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

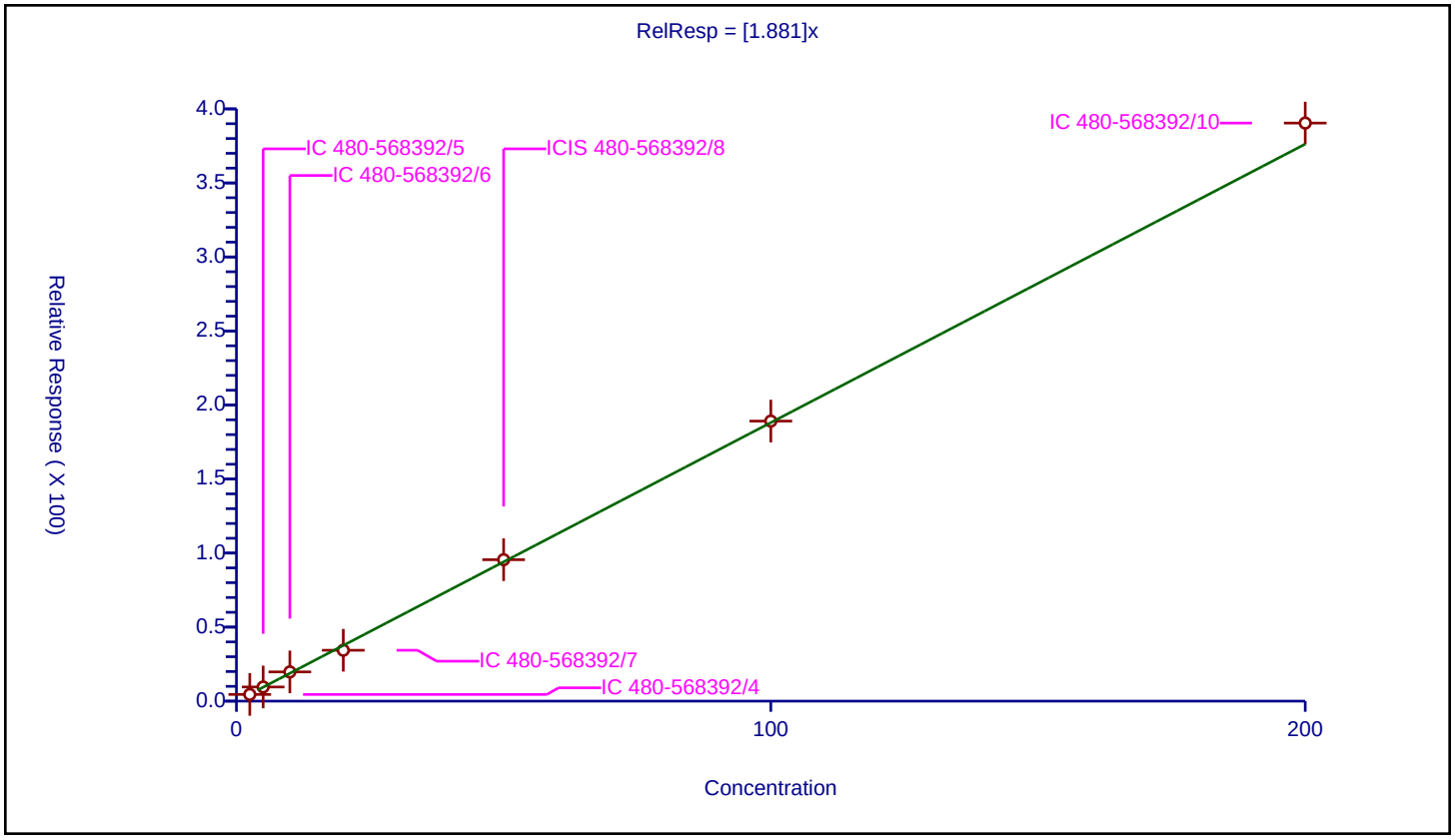
Curve Coefficients

Intercept:	0
Slope:	1.881

Error Coefficients

Standard Error:	1660000
Relative Standard Error:	4.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	4.519855	50.0	392590.0	1.807942	Y
2	IC 480-568392/5	5.0	9.569524	50.0	382182.0	1.913905	Y
3	IC 480-568392/6	10.0	19.742385	50.0	397609.0	1.974239	Y
4	IC 480-568392/7	20.0	34.359614	50.0	405607.0	1.717981	Y
5	ICIS 480-568392/8	50.0	95.531548	50.0	435464.0	1.910631	Y
6	IC 480-568392/9	100.0	189.141387	50.0	441654.0	1.891414	Y
7	IC 480-568392/10	200.0	390.43117	50.0	460051.0	1.952156	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

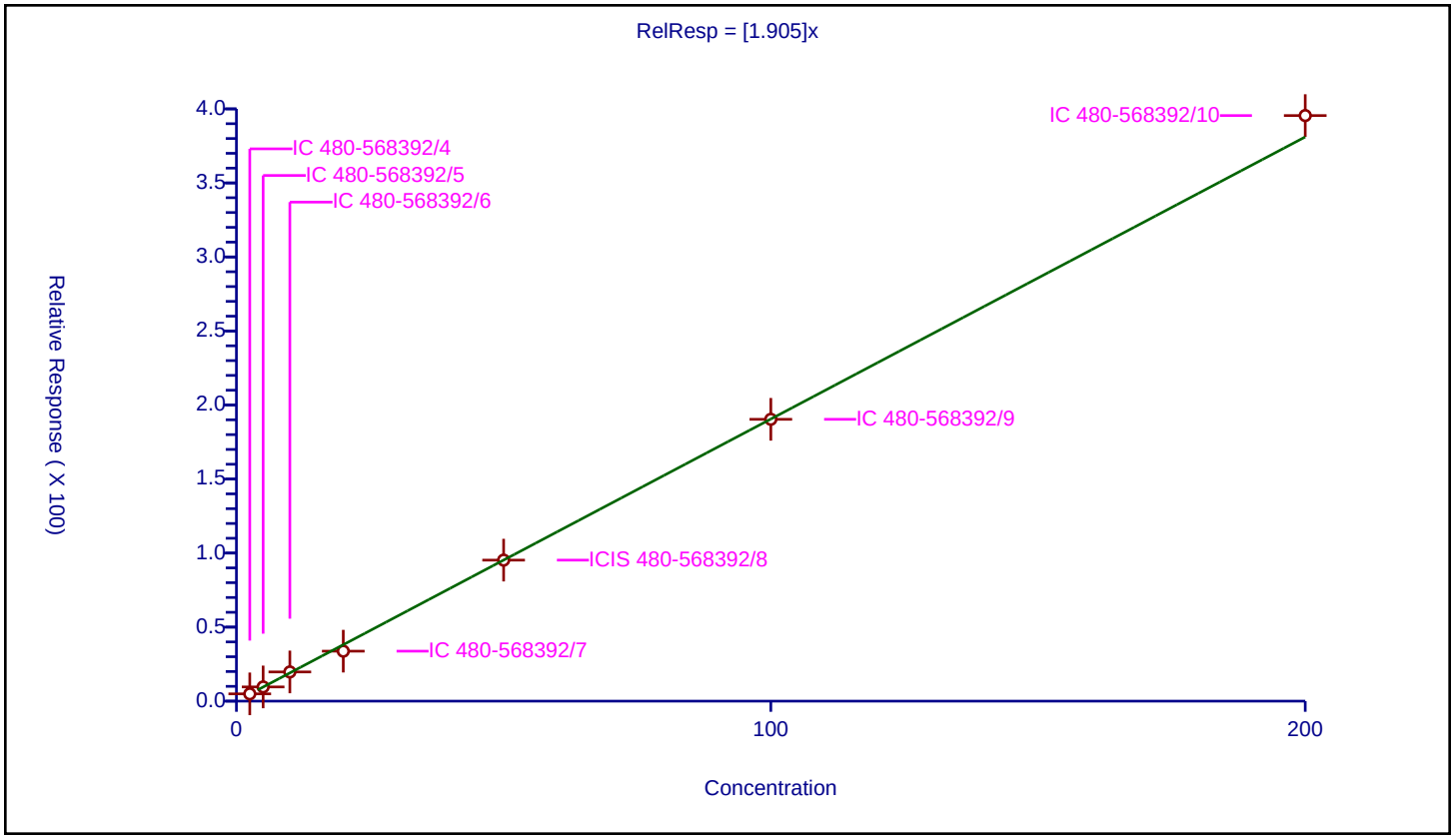
Curve Coefficients

Intercept:	0
Slope:	1.905

Error Coefficients

Standard Error:	1680000
Relative Standard Error:	5.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	4.926514	50.0	392590.0	1.970605	Y
2	IC 480-568392/5	5.0	9.603016	50.0	382182.0	1.920603	Y
3	IC 480-568392/6	10.0	19.725786	50.0	397609.0	1.972579	Y
4	IC 480-568392/7	20.0	33.747199	50.0	405607.0	1.68736	Y
5	ICIS 480-568392/8	50.0	95.243694	50.0	435464.0	1.904874	Y
6	IC 480-568392/9	100.0	190.351044	50.0	441654.0	1.90351	Y
7	IC 480-568392/10	200.0	395.477349	50.0	460051.0	1.977387	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

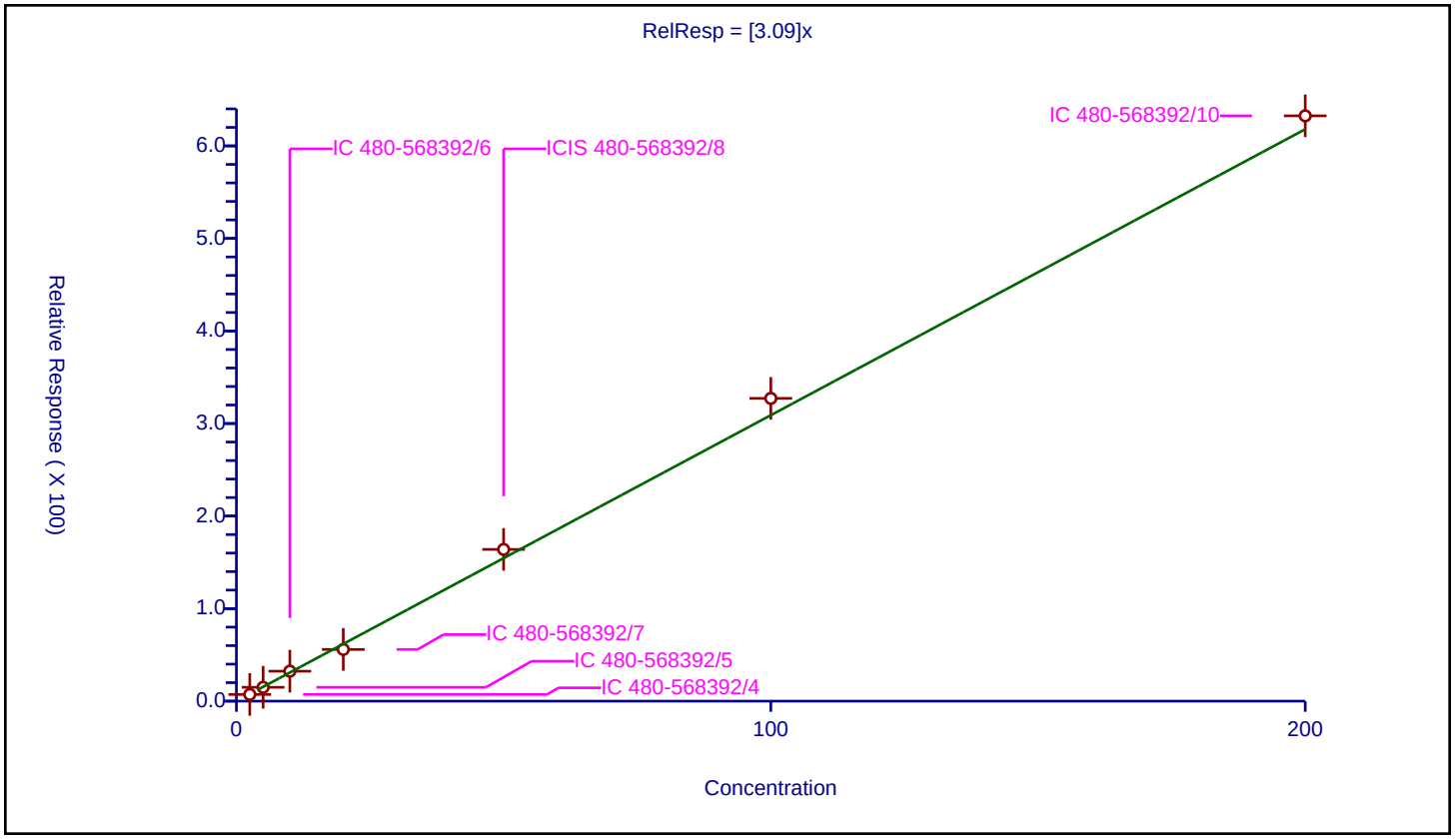
Curve Coefficients

Intercept:	0
Slope:	3.09

Error Coefficients

Standard Error:	2720000
Relative Standard Error:	6.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	7.235411	50.0	392590.0	2.894164	Y
2	IC 480-568392/5	5.0	14.959627	50.0	382182.0	2.991925	Y
3	IC 480-568392/6	10.0	32.372129	50.0	397609.0	3.237213	Y
4	IC 480-568392/7	20.0	55.856038	50.0	405607.0	2.792802	Y
5	ICIS 480-568392/8	50.0	163.959018	50.0	435464.0	3.27918	Y
6	IC 480-568392/9	100.0	327.161081	50.0	441654.0	3.271611	Y
7	IC 480-568392/10	200.0	632.480203	50.0	460051.0	3.162401	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

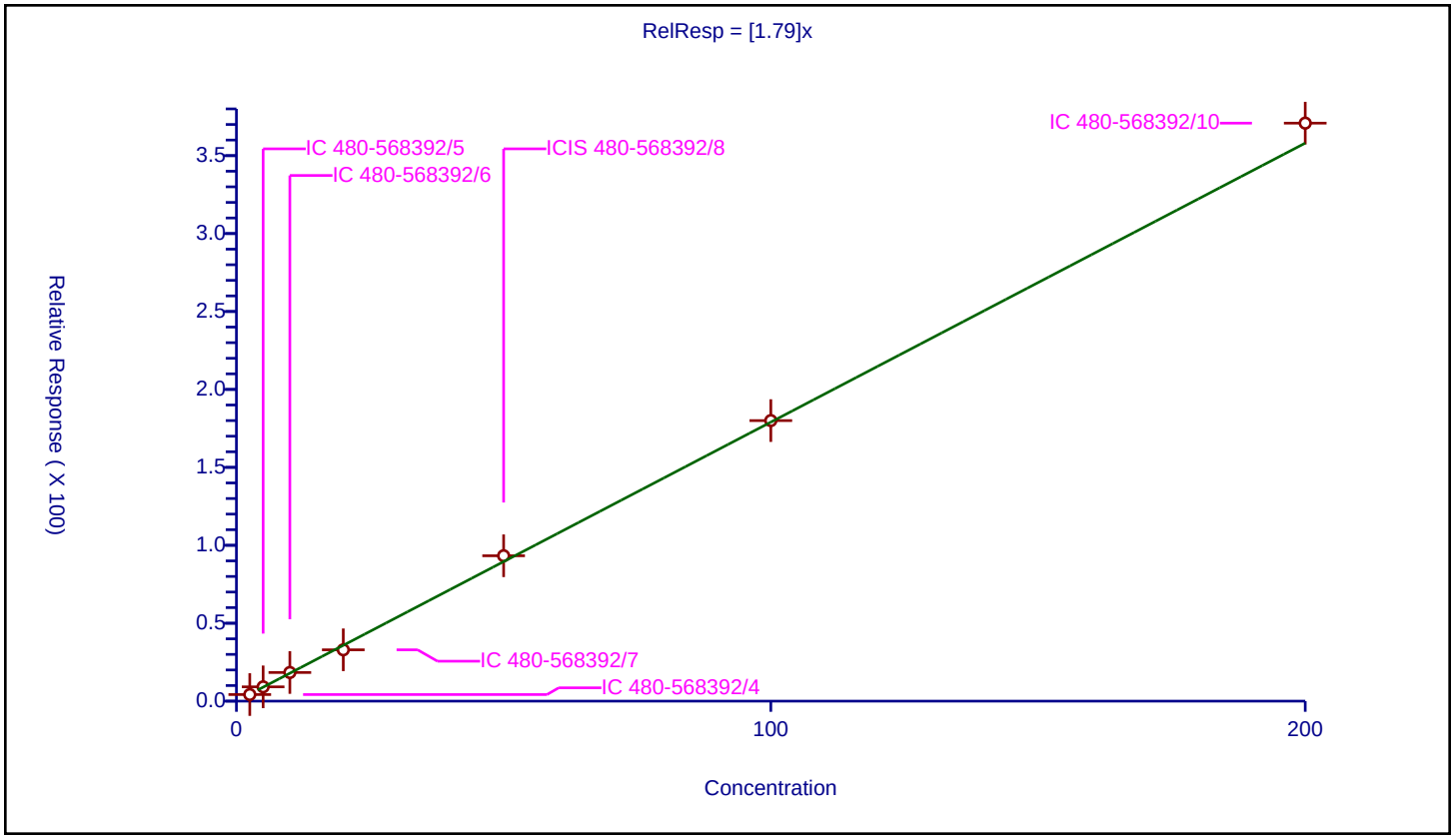
Curve Coefficients

Intercept:	0
Slope:	1.79

Error Coefficients

Standard Error:	1580000
Relative Standard Error:	4.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	4.227566	50.0	392590.0	1.691026	Y
2	IC 480-568392/5	5.0	9.175341	50.0	382182.0	1.835068	Y
3	IC 480-568392/6	10.0	18.38653	50.0	397609.0	1.838653	Y
4	IC 480-568392/7	20.0	32.937178	50.0	405607.0	1.646859	Y
5	ICIS 480-568392/8	50.0	93.281649	50.0	435464.0	1.865633	Y
6	IC 480-568392/9	100.0	180.008559	50.0	441654.0	1.800086	Y
7	IC 480-568392/10	200.0	370.861926	50.0	460051.0	1.85431	Y



Calibration / 1,2-Dibromo-3-Chloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

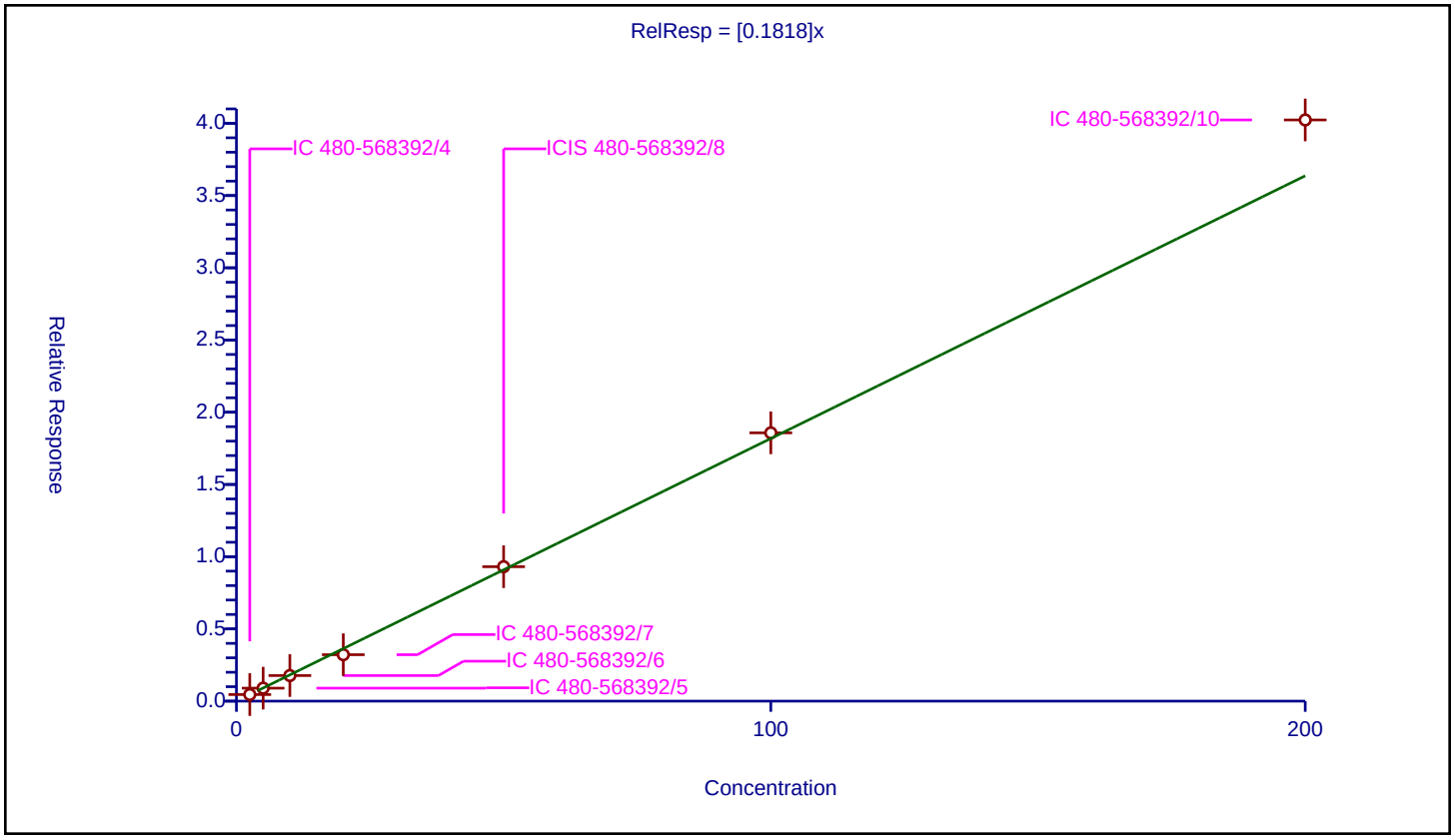
Curve Coefficients

Intercept:	0
Slope:	0.1818

Error Coefficients

Standard Error:	169000
Relative Standard Error:	6.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	0.455564	50.0	392590.0	0.182226	Y
2	IC 480-568392/5	5.0	0.898917	50.0	382182.0	0.179783	Y
3	IC 480-568392/6	10.0	1.770709	50.0	397609.0	0.177071	Y
4	IC 480-568392/7	20.0	3.214811	50.0	405607.0	0.160741	Y
5	ICIS 480-568392/8	50.0	9.306395	50.0	435464.0	0.186128	Y
6	IC 480-568392/9	100.0	18.573023	50.0	441654.0	0.18573	Y
7	IC 480-568392/10	200.0	40.234561	50.0	460051.0	0.201173	Y



Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

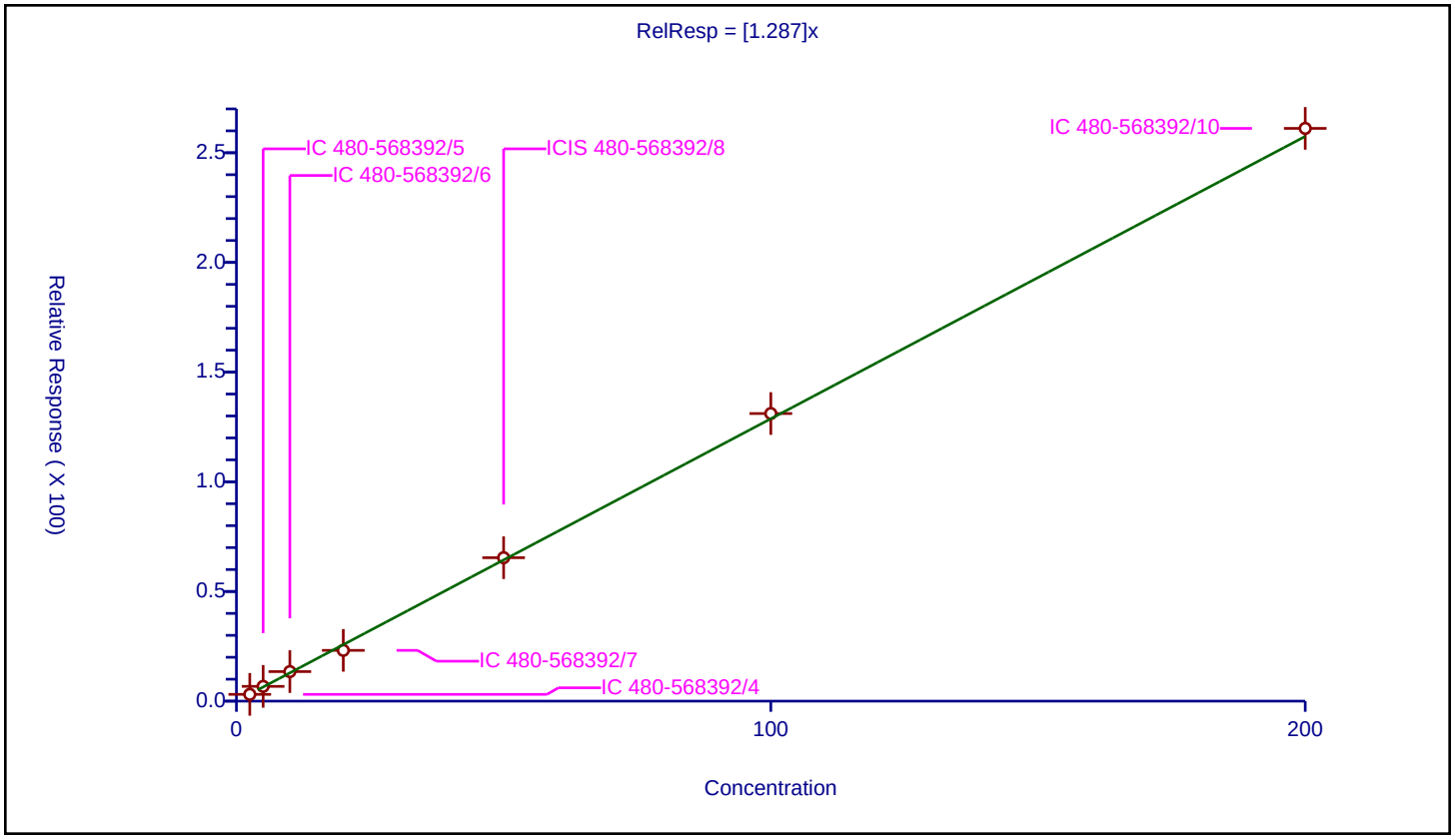
Curve Coefficients

Intercept:	0
Slope:	1.287

Error Coefficients

Standard Error:	1120000
Relative Standard Error:	5.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	3.088973	50.0	392590.0	1.235589	Y
2	IC 480-568392/5	5.0	6.736973	50.0	382182.0	1.347395	Y
3	IC 480-568392/6	10.0	13.468634	50.0	397609.0	1.346863	Y
4	IC 480-568392/7	20.0	23.143092	50.0	405607.0	1.157155	Y
5	ICIS 480-568392/8	50.0	65.389561	50.0	435464.0	1.307791	Y
6	IC 480-568392/9	100.0	131.11576	50.0	441654.0	1.311158	Y
7	IC 480-568392/10	200.0	261.106703	50.0	460051.0	1.305534	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

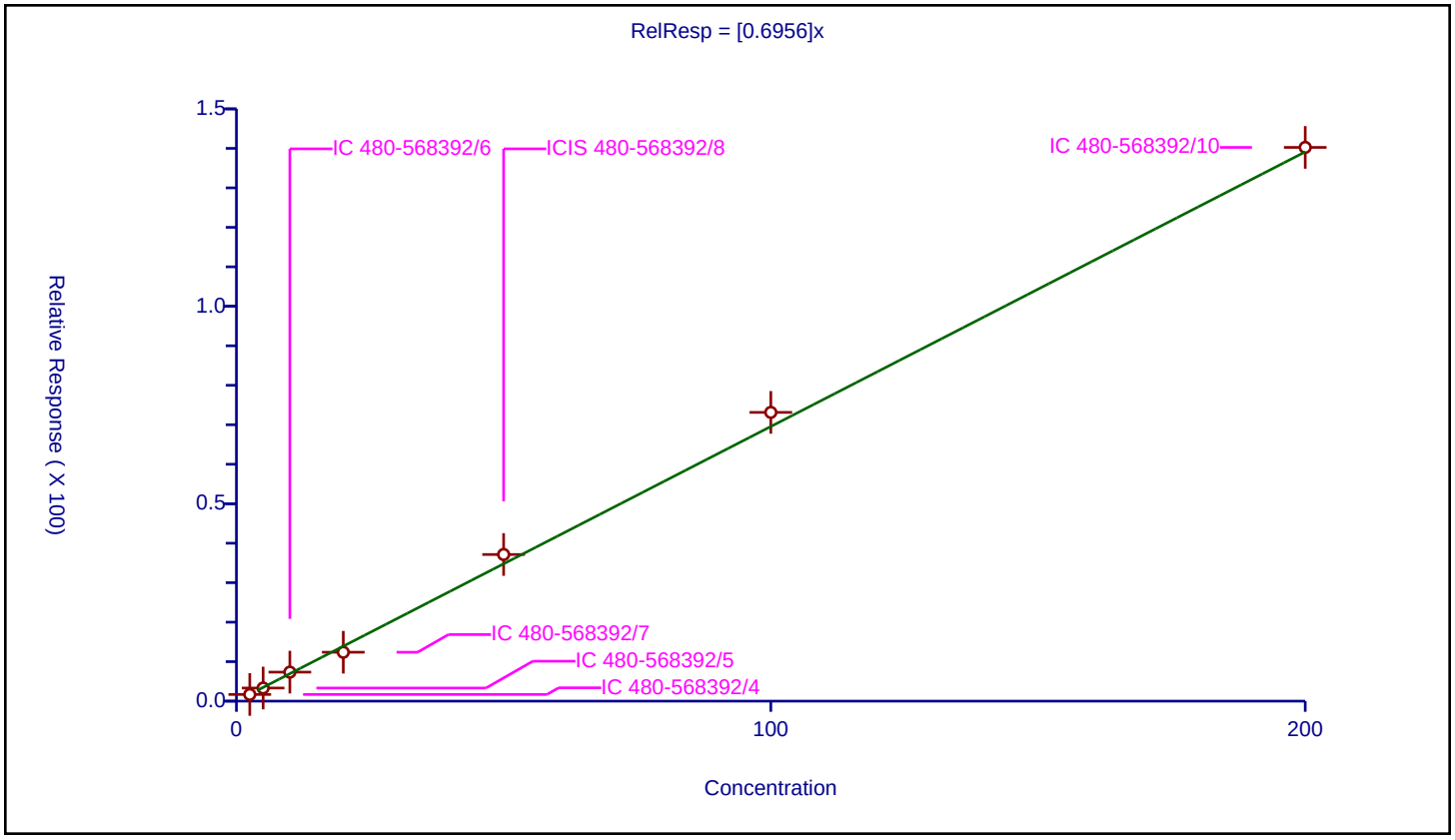
Curve Coefficients

Intercept:	0
Slope:	0.6956

Error Coefficients

Standard Error:	606000
Relative Standard Error:	6.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	1.688403	50.0	392590.0	0.675361	Y
2	IC 480-568392/5	5.0	3.322501	50.0	382182.0	0.6645	Y
3	IC 480-568392/6	10.0	7.346287	50.0	397609.0	0.734629	Y
4	IC 480-568392/7	20.0	12.385018	50.0	405607.0	0.619251	Y
5	ICIS 480-568392/8	50.0	37.136135	50.0	435464.0	0.742723	Y
6	IC 480-568392/9	100.0	73.132135	50.0	441654.0	0.731321	Y
7	IC 480-568392/10	200.0	140.244125	50.0	460051.0	0.701221	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

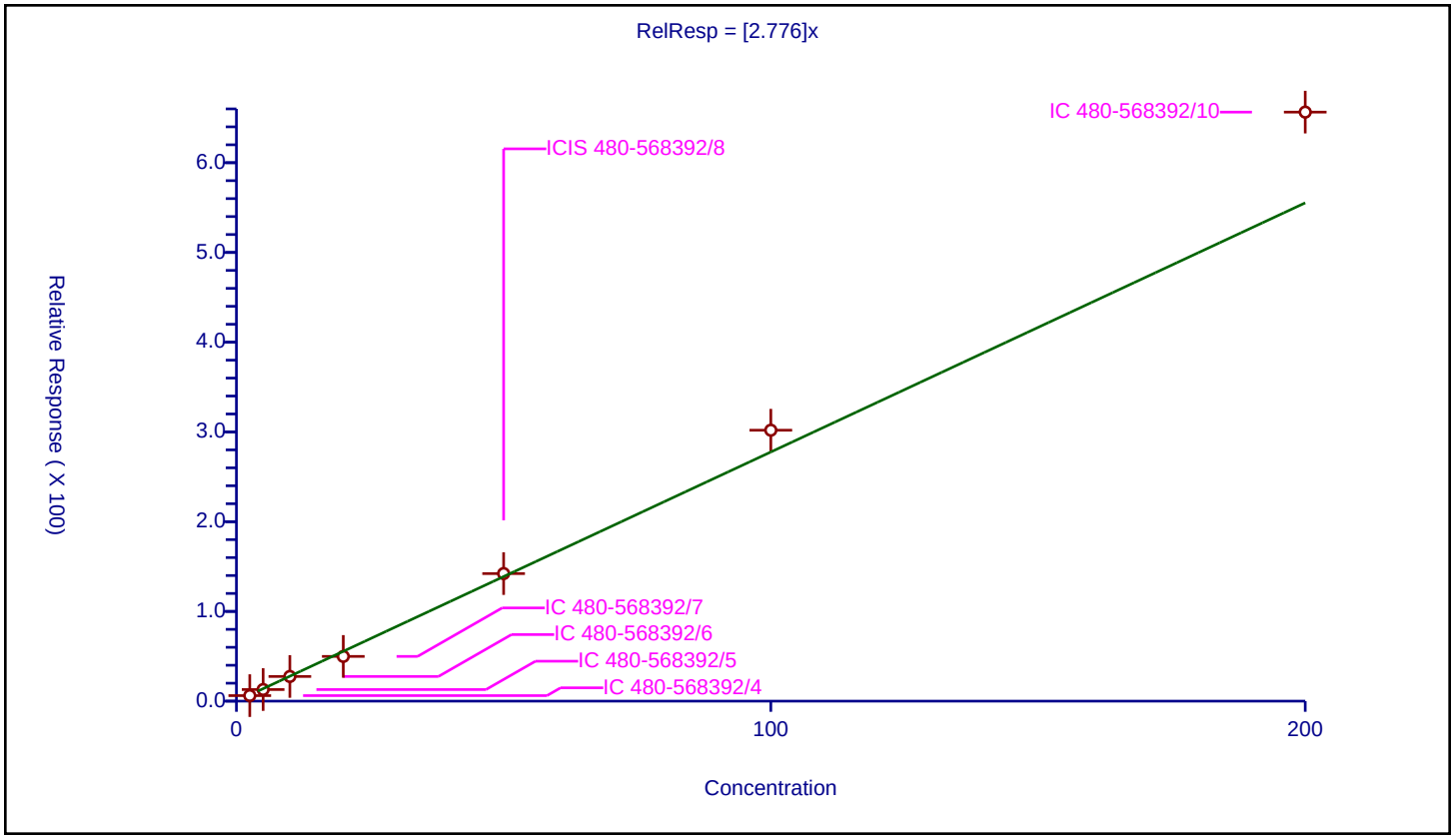
Curve Coefficients

Intercept:	0
Slope:	2.776

Error Coefficients

Standard Error:	2750000
Relative Standard Error:	10.8
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	6.145852	50.0	392590.0	2.458341	Y
2	IC 480-568392/5	5.0	12.939777	50.0	382182.0	2.587955	Y
3	IC 480-568392/6	10.0	27.508935	50.0	397609.0	2.750893	Y
4	IC 480-568392/7	20.0	49.855155	50.0	405607.0	2.492758	Y
5	ICIS 480-568392/8	50.0	142.16468	50.0	435464.0	2.843294	Y
6	IC 480-568392/9	100.0	301.918017	50.0	441654.0	3.01918	Y
7	IC 480-568392/10	200.0	656.418201	50.0	460051.0	3.282091	Y



Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

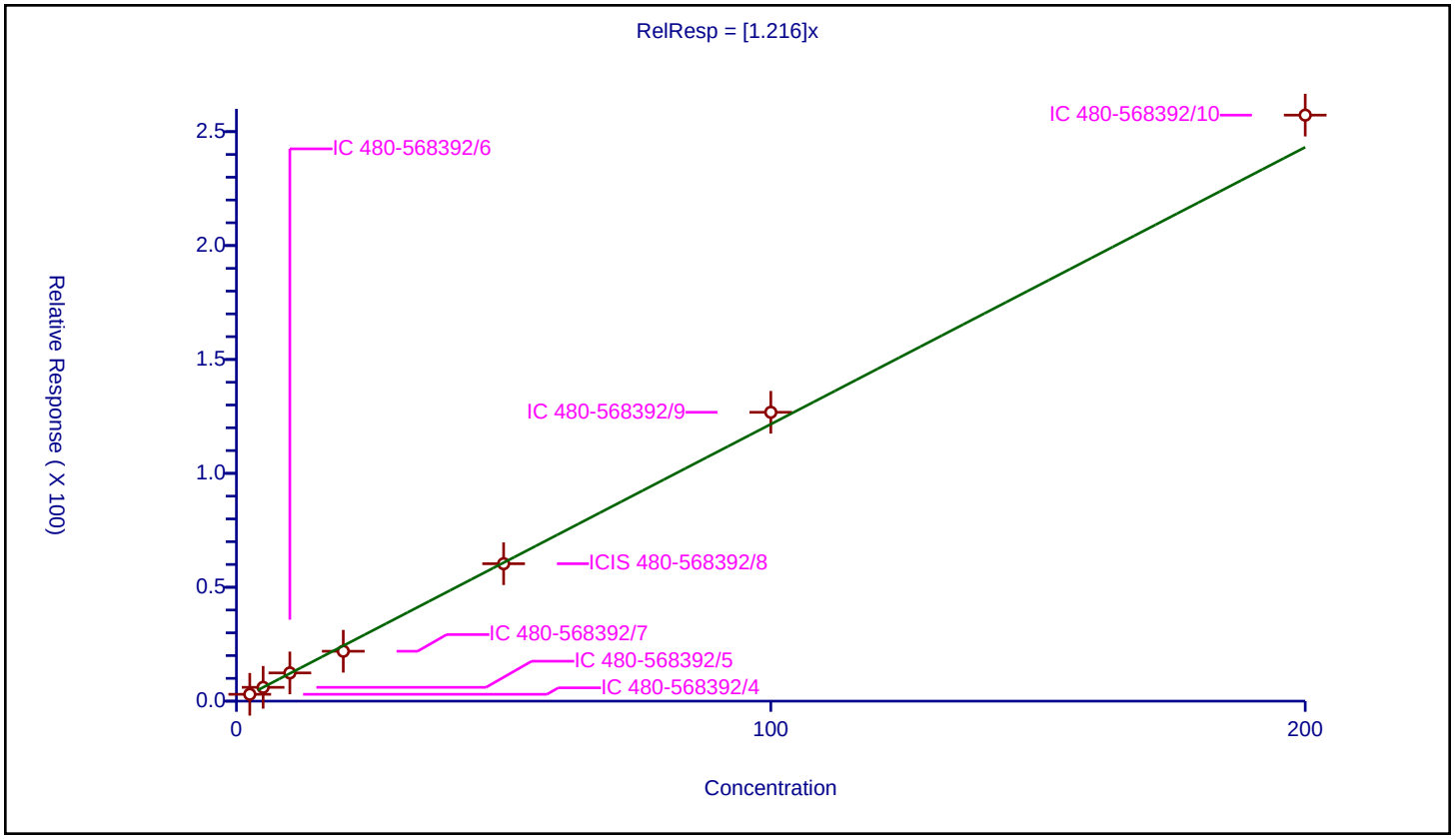
Curve Coefficients

Intercept:	0
Slope:	1.216

Error Coefficients

Standard Error:	1090000
Relative Standard Error:	5.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-568392/4	2.5	3.0081	50.0	392590.0	1.20324	Y
2	IC 480-568392/5	5.0	6.062426	50.0	382182.0	1.212485	Y
3	IC 480-568392/6	10.0	12.391445	50.0	397609.0	1.239144	Y
4	IC 480-568392/7	20.0	21.908769	50.0	405607.0	1.095438	Y
5	ICIS 480-568392/8	50.0	60.322552	50.0	435464.0	1.206451	Y
6	IC 480-568392/9	100.0	126.813863	50.0	441654.0	1.268139	Y
7	IC 480-568392/10	200.0	257.260608	50.0	460051.0	1.286303	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 566434

SDG No.:

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2021 15:08 Calibration End Date: 01/18/2021 18:02 Calibration ID: 40928

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-566434/5	L5849.D
Level 2	IC 480-566434/6	L5850.D
Level 3	IC 480-566434/7	L5851.D
Level 4	IC 480-566434/8	L5852.D
Level 5	IC 480-566434/9	L5853.D
Level 6	ICIS 480-566434/10	L5854.D
Level 7	IC 480-566434/11	L5855.D
Level 8	IC 480-566434/12	L5856.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	+++++ 1.9002	1.8302 1.8893	2.1291 1.8841	1.9067	1.7820	Ave		1.9031			0.1000	5.7		20.0			
Chloromethane	1.8121 1.6614	1.7422 1.6604	1.8557 1.6779	1.7472	1.6077	Ave		1.7206			0.1000	4.9		20.0			
Vinyl chloride	1.0259 1.3831	1.3260 1.4205	1.4906 1.4574	1.4291	1.3521	Ave		1.3606			0.1000	10.7		20.0			
Butadiene	1.3693 1.4026	1.5751 1.3843	1.6309 1.3950	1.4848	1.3585	Ave		1.4501				7.1		20.0			
Bromomethane	0.8066 0.9796	0.9075 0.9946	1.0766 1.0024	1.0534	0.9554	Ave		0.9720			0.1000	8.8		20.0			
Chloroethane	+++++ 0.7771	0.7929 0.7913	0.8850 0.7986	0.7874	0.7521	Ave		0.7978			0.1000	5.2		20.0			
Dichlorofluoromethane	2.4874 2.1853	2.2329 2.1833	2.4079 2.1351	2.3212	2.1203	Ave		2.2592				5.9		20.0			
Trichlorofluoromethane	2.1074 2.6019	2.5627 2.6023	2.8004 2.5330	2.5824	2.4996	Ave		2.5362			0.1000	7.7		20.0			
Ethyl ether	1.0054 1.1603	1.1380 1.2109	1.1802 1.1620	1.1558	1.2104	Ave		1.1529				5.6		20.0			
Acrolein	+++++ 0.0797	0.0613 0.0821	0.0816 0.0817	0.0815	0.0761	Ave		0.0777				9.7		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 1.2031	1.0336 1.2588	1.1031 1.1465	1.2220	1.1943	Ave		1.1659			0.1000	6.6		20.0			
1,1-Dichloroethene	+++++ 1.1512	1.1520 1.2183	1.1390 1.1202	1.1958	1.1501	Ave		1.1609			0.1000	2.9		20.0			
Acetone	0.5934 0.5410	0.5394 0.5423	0.5511 0.5144	0.5448	0.5296	Ave		0.5445			0.1000	4.2		20.0			
Iodomethane	1.9048 2.2357	2.1125 2.3316	2.2044 2.2359	2.2712	2.2445	Ave		2.1926				6.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 566434

SDG No.:

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2021 15:08 Calibration End Date: 01/18/2021 18:02 Calibration ID: 40928

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	3.2836 3.8938	3.6209 4.0262	3.9652 3.7515	3.9657	3.8566	Ave		3.7954			0.1000	6.4		20.0			
Allyl chloride	1.8649 2.0264	2.0626 2.0774	1.9298 1.9463	2.0560	2.0004	Ave		1.9955				3.8		20.0			
Methyl acetate	1.4292 1.1428	1.3499 1.1364	1.2122 1.0994	1.1945	1.1361	Ave		1.2126			0.1000	9.6		20.0			
Methylene Chloride	2.6496 1.3996	1.9516 1.4391	1.6404 1.3709	1.5314	1.4662	Lin1	0.5374	1.3875			0.1000	3.2			1.0000		0.9900
2-Methyl-2-propanol	+++++ 0.1672	0.1512 0.1812	0.1461 0.1863	0.1342	0.1600	Ave		0.1609				11.7		20.0			
Methyl tert-butyl ether	4.0265 4.1555	3.9773 4.3101	4.0571 4.2108	4.2059	4.3054	Ave		4.1561			0.1000	3.0		20.0			
trans-1,2-Dichloroethene	1.1476 1.4588	1.4199 1.4946	1.4047 1.4106	1.4299	1.4253	Ave		1.3989			0.1000	7.6		20.0			
Acrylonitrile	0.6103 0.6182	0.6345 0.6276	0.6283 0.6012	0.6332	0.6339	Ave		0.6234				2.0		20.0			
Hexane	+++++ 1.9125	1.7323 2.0462	1.9474 1.8160	2.0104	1.9299	Ave		1.9135				5.7		20.0			
Vinyl acetate	2.8851 3.2213	2.9928 3.3376	3.0521 3.2609	3.2003	3.2098	Ave		3.1450				4.9		20.0			
1,1-Dichloroethane	2.1341 2.5325	2.4798 2.6023	2.5442 2.4611	2.6023	2.5969	Ave		2.4942			0.2000	6.2		20.0			
2,2-Dichloropropane	1.6803 1.9297	1.8740 1.9660	1.9542 1.8543	1.9918	1.9144	Ave		1.8956				5.2		20.0			
cis-1,2-Dichloroethene	1.5757 1.6458	1.5833 1.6555	1.6248 1.6038	1.6562	1.6234	Ave		1.6211			0.1000	1.9		20.0			
2-Butanone (MEK)	0.8070 0.8162	0.8547 0.8060	0.8269 0.7800	0.8312	0.8370	Ave		0.8199			0.1000	2.8		20.0			
Chlorobromomethane	0.8171 0.8600	0.8150 0.8869	0.8645 0.8685	0.8860	0.8892	Ave		0.8609				3.5		20.0			
Tetrahydrofuran	0.5581 0.4956	0.5096 0.4896	0.4680 0.4743	0.5134	0.5037	Ave		0.5016				5.6		20.0			
Chloroform	3.2565 2.7859	3.0767 2.8558	3.0495 2.7098	2.8967	2.7997	Ave		2.9288			0.2000	6.3		20.0			
1,1,1-Trichloroethane	2.2734 2.6855	2.5138 2.7793	2.6907 2.6044	2.7321	2.6324	Ave		2.6139			0.1000	6.1		20.0			
Cyclohexane	+++++ 2.4027	2.2994 2.5150	2.3681 2.2828	2.5270	2.4219	Ave		2.4024			0.1000	4.0		20.0			
1,1-Dichloropropene	1.7379 2.0215	1.9786 2.0733	2.0840 1.9521	2.0867	2.0054	Ave		1.9924				5.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 566434

SDG No.:

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2021 15:08 Calibration End Date: 01/18/2021 18:02 Calibration ID: 40928

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Carbon tetrachloride	+++++ 2.5044	2.2957 2.5825	2.4663 2.4138	2.5068	2.4036	Ave		2.4533			0.1000	3.8		20.0			
Isobutyl alcohol	0.0571 0.0715	0.0635 0.0735	0.0683 0.0729	0.0667	0.0707	Ave		0.0680				8.2		20.0			
Benzene	5.3121 5.6158	5.4748 5.7535	5.7755 5.4485	5.8275	5.7138	Ave		5.6152			0.5000	3.3		20.0			
1,2-Dichloroethane	2.3224 2.3801	2.2517 2.4546	2.4313 2.3707	2.4306	2.4828	Ave		2.3905			0.1000	3.2		20.0			
n-Heptane	1.7693 1.8744	1.9315 1.9673	1.9507 1.7939	2.0701	1.9713	Ave		1.9160				5.2		20.0			
Trichloroethene	1.3474 1.6506	1.5041 1.6925	1.6612 1.5994	1.7112	1.6924	Ave		1.6074			0.2000	7.7		20.0			
Methylcyclohexane	1.8720 2.3528	2.2830 2.5156	2.3122 2.2679	2.3929	2.3045	Ave		2.2876			0.1000	8.1		20.0			
1,2-Dichloropropane	1.2466 1.4055	1.3075 1.4277	1.4724 1.4108	1.5187	1.4909	Ave		1.4100			0.1000	6.6		20.0			
1,4-Dioxane	+++++ 0.0031	0.0008 0.0030	0.0018 0.0029	0.0023	0.0030	Lin1	-0.045	0.0030				5.8			0.9990		0.9900
Dibromomethane	1.0007 1.0230	0.9073 1.0556	1.0163 1.0324	0.9818	1.0352	Ave		1.0065			0.1000	4.6		20.0			
Bromodichloromethane	1.9124 2.1871	2.0038 2.2818	2.1555 2.2255	2.2393	2.2230	Ave		2.1536			0.2000	6.0		20.0			
2-Chloroethyl vinyl ether	+++++ 0.9987	0.9517 1.0366	0.9277 1.0130	0.9673	0.9973	Ave		0.9846				3.8		20.0			
cis-1,3-Dichloropropene	2.2611 2.5180	2.4085 2.6078	2.4216 2.5545	2.4557	2.4988	Ave		2.4657			0.2000	4.3		20.0			
4-Methyl-2-pentanone (MIBK)	0.3704 0.4021	0.3847 0.3881	0.3896 0.3727	0.4024	0.4056	Ave		0.3895			0.1000	3.4		20.0			
Toluene	0.8623 0.9233	0.9068 0.9386	0.8743 0.8943	0.9679	0.9298	Ave		0.9122			0.4000	3.8		20.0			
Ethyl methacrylate	+++++ 0.4754	0.3706 0.4758	0.4076 0.4761	0.4309	0.4583	Ave		0.4421				9.3		20.0			
trans-1,3-Dichloropropene	0.5056 0.5902	0.5108 0.5944	0.5290 0.5929	0.5692	0.5814	Ave		0.5592			0.1000	6.8		20.0			
1,1,2-Trichloroethane	0.2293 0.2665	0.2511 0.2666	0.2605 0.2626	0.2746	0.2693	Ave		0.2601			0.1000	5.5		20.0			
Tetrachloroethene	+++++ 0.4332	0.4104 0.4424	0.4333 0.4246	0.4271	0.4249	Ave		0.4280			0.2000	2.3		20.0			
1,3-Dichloropropane	0.5089 0.5584	0.5407 0.5542	0.5379 0.5412	0.5598	0.5629	Ave		0.5455				3.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 566434

SDG No.:

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2021 15:08 Calibration End Date: 01/18/2021 18:02 Calibration ID: 40928

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Hexanone	0.2643 0.3012	0.2775 0.2972	0.2867 0.2832	0.3006	0.3064	Ave		0.2896			0.1000	4.9		20.0			
Dibromochloromethane	0.3794 0.4324	0.4095 0.4373	0.3927 0.4394	0.4267	0.4217	Ave		0.4174			0.1000	5.2		20.0			
1,2-Dibromoethane	0.2692 0.3620	0.3641 0.3655	0.3538 0.3650	0.3694	0.3683	Ave		0.3521				9.6		20.0			
Chlorobenzene	0.9967 1.0561	1.1081 1.0694	1.0449 1.0367	1.0714	1.0769	Ave		1.0575			0.5000	3.1		20.0			
Ethylbenzene	1.5982 1.8200	1.7723 1.8071	1.8063 1.7353	1.8560	1.8348	Ave		1.7787			0.1000	4.6		20.0			
1,1,1,2-Tetrachloroethane	0.3201 0.4192	0.3927 0.4283	0.4178 0.4165	0.4197	0.4182	Ave		0.4041				8.8		20.0			
m,p-Xylene	0.6270 0.7239	0.6860 0.7143	0.7021 0.6888	0.7358	0.7211	Ave		0.6999			0.1000	4.9		20.0			
o-Xylene	0.5636 0.6969	0.6559 0.7002	0.6611 0.6798	0.7025	0.6986	Ave		0.6698			0.3000	7.0		20.0			
Styrene	0.9595 1.2143	1.0871 1.2206	1.1336 1.1873	1.2033	1.2238	Ave		1.1537			0.3000	8.0		20.0			
Bromoform	0.2560 0.3263	0.2890 0.3324	0.2798 0.3367	0.3079	0.3196	Ave		0.3060			0.1000	9.3		20.0			
Isopropylbenzene	2.8079 3.2293	3.0943 3.2545	3.2525 3.2180	3.3160	3.2658	Ave		3.1798			0.1000	5.1		20.0			
1,1,2,2-Tetrachloroethane	0.7729 0.7844	0.7703 0.7939	0.8845 0.8150	0.8471	0.8571	Ave		0.8157			0.3000	5.2		20.0			
Bromobenzene	0.7935 0.8305	0.8413 0.8421	0.8318 0.8581	0.8609	0.8707	Ave		0.8411				2.8		20.0			
N-Propylbenzene	3.1351 3.7140	3.6186 3.7402	3.8013 3.6820	3.9516	3.7916	Ave		3.6793				6.5		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.2609	0.1216 0.2799	0.1771 0.2881	0.2126	0.2366	Lin1	-0.219	0.2838				11.0			0.9980		0.9900
1,2,3-Trichloropropane	0.2624 0.2899	0.2902 0.2880	0.3097 0.2901	0.3098	0.3260	Ave		0.2957				6.5		20.0			
2-Chlorotoluene	0.6219 0.7616	0.7475 0.7677	0.7696 0.7618	0.8009	0.7736	Ave		0.7506				7.2		20.0			
1,3,5-Trimethylbenzene	2.5195 2.7996	2.6182 2.8252	2.7518 2.7702	2.9015	2.8439	Ave		2.7537				4.6		20.0			
4-Chlorotoluene	2.1892 2.3770	2.3567 2.3710	2.4579 2.3686	2.4924	2.4568	Ave		2.3837				3.9		20.0			
tert-Butylbenzene	0.4791 0.6151	0.5364 0.6189	0.5664 0.6041	0.6172	0.5865	Ave		0.5780				8.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 566434

SDG No.:

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2021 15:08 Calibration End Date: 01/18/2021 18:02 Calibration ID: 40928

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	2.5203 2.8780	2.6901 2.8942	2.8676 2.8775	2.9629	2.9354	Ave		2.8282				5.2		20.0			
sec-Butylbenzene	2.8887 3.4298	3.2679 3.4628	3.3904 3.3835	3.5145	3.4191	Ave		3.3446				5.9		20.0			
4-Isopropyltoluene	2.6831 3.1413	2.9511 3.1651	3.0796 3.1058	3.1656	3.1605	Ave		3.0565				5.5		20.0			
1,3-Dichlorobenzene	1.5592 1.6293	1.5591 1.6457	1.6523 1.6233	1.6843	1.6837	Ave		1.6296			0.6000	3.0		20.0			
1,4-Dichlorobenzene	1.7136 1.6690	1.6579 1.6678	1.6721 1.6725	1.6843	1.7245	Ave		1.6827			0.5000	1.4		20.0			
n-Butylbenzene	2.3993 2.6602	2.4716 2.7303	2.5738 2.6822	2.7789	2.6858	Ave		2.6227				5.0		20.0			
1,2-Dichlorobenzene	1.3908 1.5610	1.4898 1.5747	1.5354 1.5857	1.6308	1.6221	Ave		1.5488			0.4000	5.1		20.0			
1,2-Dibromo-3-Chloropropane	0.1812 0.1892	0.1930 0.1947	0.2012 0.1984	0.1942	0.2001	Ave		0.1940			0.0500	3.4		20.0			
1,2,4-Trichlorobenzene	1.0961 1.1874	1.1837 1.2403	1.1485 1.2610	1.2146	1.2176	Ave		1.1937			0.2000	4.4		20.0			
Hexachlorobutadiene	0.4921 0.5958	0.5992 0.6195	0.6079 0.6222	0.6328	0.5955	Ave		0.5956				7.4		20.0			
Naphthalene	2.7307 2.9435	2.8805 3.0129	2.7997 3.0948	2.9758	2.9889	Ave		2.9283				4.1		20.0			
1,2,3-Trichlorobenzene	0.9363 1.1361	1.1289 1.1512	1.0646 1.1920	1.1315	1.1509	Ave		1.1114				7.1		20.0			
Dibromofluoromethane (Surr)	1.4095 1.3970	1.3736 1.3992	1.3949 1.4117	1.3856	1.3779	Ave		1.3937				1.0		20.0			
1,2-Dichloroethane-d4 (Surr)	1.6903 1.6817	1.6560 1.7085	1.6362 1.6980	1.6784	1.6730	Ave		1.6778				1.4		20.0			
Toluene-d8 (Surr)	1.1552 1.2210	1.2076 1.1541	1.1812 1.2058	1.1790	1.1901	Ave		1.1867				2.0		20.0			
4-Bromofluorobenzene (Surr)	0.4105 0.4626	0.4440 0.4134	0.4139 0.4684	0.4375	0.4476	Ave		0.4373				5.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 566434

SDG No.:

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2021 15:08 Calibration End Date: 01/18/2021 18:02 Calibration ID: 40928

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-566434/5	L5849.D
Level 2	IC 480-566434/6	L5850.D
Level 3	IC 480-566434/7	L5851.D
Level 4	IC 480-566434/8	L5852.D
Level 5	IC 480-566434/9	L5853.D
Level 6	ICIS 480-566434/10	L5854.D
Level 7	IC 480-566434/11	L5855.D
Level 8	IC 480-566434/12	L5856.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	+++++ 234436	9362 480309	21365 958503	47225	90771	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloromethane	FB	Ave	3810 204972	8912 422119	18622 853616	43274	81892	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl chloride	FB	Ave	2157 170637	6783 361126	14958 741413	35395	68870	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Butadiene	FB	Ave	2879 173045	8057 351921	16366 709691	36775	69197	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromomethane	FB	Ave	1696 120863	4642 252859	10804 509933	26089	48666	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloroethane	FB	Ave	+++++ 95871	4056 201156	8881 406260	19502	38310	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Dichlorofluoromethane	FB	Ave	5230 269612	11422 555042	24163 1086206	57491	108001	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichlorofluoromethane	FB	Ave	4431 321015	13109 661576	28102 1288614	63961	127323	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl ether	FB	Ave	2114 143155	5821 307837	11843 591139	28626	61656	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrolein	FB	Ave	+++++ 49138	1567 104405	4092 207732	10096	19384	+++++ 125	5.00 250	10.0 500	25.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++ 148439	5287 320016	11069 583248	30267	60832	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethene	FB	Ave	+++++ 142032	5893 309709	11430 569881	29616	58585	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acetone	FB	Ave	6238 333734	13797 689307	27650 1308580	67462	134887	2.00 125	5.00 250	10.0 500	25.0	50.0
Iodomethane	FB	Ave	4005 275836	10806 592761	22121 1137477	56253	114331	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon disulfide	FB	Ave	6904	18522	39790	98221	196446	0.400	1.00	2.00	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 566434

SDG No.:

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2021 15:08 Calibration End Date: 01/18/2021 18:02 Calibration ID: 40928

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			480396	1023550	1908484			25.0	50.0	100		
Allyl chloride	FB	Ave	3921 250008	10551 528117	19365 990166	50921	101893	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Methyl acetate	FB	Ave	6010 281990	13810 577797	24328 1118552	59172	115740	0.800 50.0	2.00 100	4.00 200	10.0	20.0
Methylene Chloride	FB	Lin1	5571 172672	9983 365851	16461 697422	37930	74682	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	+++++ 206277	7735 460747	14659 947710	33241	81509	+++++ 250	10.0 500	20.0 1000	50.0	100
Methyl tert-butyl ether	FB	Ave	8466 512687	20345 1095728	40713 2142166	104171	219306	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	2413 179982	7263 379974	14096 717600	35414	72600	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrylonitrile	FB	Ave	12831 762682	32456 1595537	63046 3058708	156817	322910	4.00 250	10.0 500	20.0 1000	50.0	100
Hexane	FB	Ave	+++++ 235951	8861 520194	19542 923877	49794	98302	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Ave	12132 794852	30618 1696979	61255 3317823	158527	327001	0.800 50.0	2.00 100	4.00 200	10.0	20.0
1,1-Dichloroethane	FB	Ave	4487 312445	12685 661567	25531 1252060	64453	132280	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2,2-Dichloropropane	FB	Ave	3533 238084	9586 499817	19610 943359	49333	97516	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	3313 203056	8099 420873	16305 815922	41019	82693	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	8484 503517	21861 1024485	41488 1983972	102928	213164	2.00 125	5.00 250	10.0 500	25.0	50.0
Chlorobromomethane	FB	Ave	1718 106108	4169 225476	8675 441848	21944	45291	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrahydrofuran	FB	Ave	2347 122283	5214 248954	9393 482631	25432	51317	0.800 50.0	2.00 100	4.00 200	10.0	20.0
Chloroform	FB	Ave	6847 343715	15738 726001	30601 1378587	71745	142611	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	4780 331322	12859 706560	27001 1324921	67668	134086	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Ave	+++++ 296432	11762 639366	23764 1161320	62587	123366	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloropropene	FB	Ave	3654 249403	10121 527075	20913 993115	51683	102148	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Ave	+++++ 308983	11743 656541	24749 1228000	62088	122433	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Isobutyl alcohol	FB	Ave	3000	8118	17136	41327	90080	10.0	25.0	50.0	125	250

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 566434

SDG No.:

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2021 15:08 Calibration End Date: 01/18/2021 18:02 Calibration ID: 40928

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			220601	467109	927578			625	1250	2500		
Benzene	FB	Ave	11169 692849	28005 1462687	57956 2771809	144334	291047	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloroethane	FB	Ave	4883 293650	11518 624012	24398 1206073	60200	126467	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Heptane	FB	Ave	3720 231252	9880 500124	19575 912606	51271	100415	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	2833 203645	7694 430281	16670 813663	42382	86204	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylcyclohexane	FB	Ave	3936 290282	11678 639514	23203 1153762	59266	117387	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	2621 173406	6688 362957	14775 717707	37614	75942	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dioxane	CBNZd5	Lin1	+++++ 32645	359 66974	1569 130081	4925	13031	+++++ 500	20.0 1000	40.0 2000	100	200
Dibromomethane	FB	Ave	2104 126208	4641 268350	10198 525194	24317	52730	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromodichloromethane	FB	Ave	4021 269838	10250 580100	21630 1132163	55461	113234	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chloroethyl vinyl ether	FB	Ave	+++++ 123216	4868 263516	9309 515370	23958	50802	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	4754 310666	12320 662968	24300 1299547	60822	127282	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBNZd5	Ave	17099 1053533	41894 2149770	85259 4116192	215023	444193	2.00 125	5.00 250	10.0 500	25.0	50.0
Toluene	CBNZd5	Ave	7961 483828	19749 1039962	38266 1975420	103431	203650	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl methacrylate	CBNZd5	Ave	+++++ 249116	8070 527206	17840 1051714	46047	100375	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,3-Dichloropropene	CBNZd5	Ave	4668 309294	11124 658514	23153 1309706	60828	127329	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloroethane	CBNZd5	Ave	2117 139672	5469 295382	11402 580063	29344	58976	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrachloroethene	CBNZd5	Ave	+++++ 227012	8937 490128	18964 937824	45639	93069	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 566434

SDG No.:

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2021 15:08 Calibration End Date: 01/18/2021 18:02 Calibration ID: 40928

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,3-Dichloropropane	CBNZd5	Ave	4698 292645	11776 613977	23545 1195396	59823	123292	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Hexanone	CBNZd5	Ave	12199 789280	30218 1646560	62754 3127748	160616	335515	2.00 125	5.00 250	10.0 500	25.0	50.0
Dibromochloromethane	CBNZd5	Ave	3503 226581	8919 484500	17187 970603	45596	92350	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromoethane	CBNZd5	Ave	2485 189691	7929 404946	15486 806140	39470	80653	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Chlorobenzene	CBNZd5	Ave	9201 553452	24133 1184827	45736 2289904	114492	235849	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethylbenzene	CBNZd5	Ave	14754 953729	38597 2002175	79063 3833155	198338	401849	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZd5	Ave	2955 219666	8553 474533	18289 919898	44849	91591	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
m,p-Xylene	CBNZd5	Ave	5788 379357	14940 791463	30731 1521492	78630	157927	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
o-Xylene	CBNZd5	Ave	5203 365222	14284 775785	28935 1501595	75069	152994	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Styrene	CBNZd5	Ave	8858 636355	23675 1352396	49616 2622614	128585	268037	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromoform	CBNZd5	Ave	2363 171008	6293 368324	12247 743715	32906	70000	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Isopropylbenzene	DCBd4	Ave	14041 994112	38260 2102479	78829 4004839	199607	406668	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd4	Ave	3865 241480	9525 512878	21436 1014300	50991	106735	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromobenzene	DCBd4	Ave	3968 255669	10403 543997	20159 1067918	51824	108421	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
N-Propylbenzene	DCBd4	Ave	15677 1143344	44743 2416275	92128 4582368	237870	472145	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,4-Dichloro-2-butene	DCBd4	Lin1	+++++ 80311	1503 180808	4293 358586	12797	29464	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 566434

SDG No.:

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2021 15:08 Calibration End Date: 01/18/2021 18:02 Calibration ID: 40928

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2,3-Trichloropropane	DCBd4	Ave	1312 89237	3588 186028	7505 361039	18648	40596	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chlorotoluene	DCBd4	Ave	3110 234439	9243 495950	18651 948047	48208	96337	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3,5-Trimethylbenzene	DCBd4	Ave	12599 861854	32374 1825133	66692 3447640	174657	354134	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Chlorotoluene	DCBd4	Ave	10947 731760	29140 1531691	59571 2947778	150032	305932	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
tert-Butylbenzene	DCBd4	Ave	2396 189369	6632 399805	13728 751808	37152	73029	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trimethylbenzene	DCBd4	Ave	12603 885989	33262 1869714	69499 3581073	178355	365526	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
sec-Butylbenzene	DCBd4	Ave	14445 1055839	40407 2237031	82170 4210829	211561	425757	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Isopropyltoluene	DCBd4	Ave	13417 967024	36490 2044712	74637 3865233	190555	393554	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichlorobenzene	DCBd4	Ave	7797 501558	19278 1063180	40045 2020241	101387	209666	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dichlorobenzene	DCBd4	Ave	8569 513784	20499 1077405	40525 2081497	101388	214739	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Butylbenzene	DCBd4	Ave	11998 818915	30561 1763807	62378 3338067	167276	334446	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichlorobenzene	DCBd4	Ave	6955 480531	18421 1017263	37213 1973387	98170	201991	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	906 58236	2387 125751	4877 246961	11689	24923	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trichlorobenzene	DCBd4	Ave	5481 365521	14636 801289	27836 1569375	73116	151619	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Hexachlorobutadiene	DCBd4	Ave	2461 183420	7409 400231	14732 774400	38095	74155	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Naphthalene	DCBd4	Ave	13655 906125	35617 1946391	67853 3851575	179134	372189	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichlorobenzene	DCBd4	Ave	4682 349743	13959 743715	25802 1483504	68109	143317	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	185220 172362	175664 177857	174969 179549	171592	175471	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	222125 207482	211767 217177	205241 215952	207844	213045	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
Toluene-d8 (Surr)	CBNZd5	Ave	666516 639869	657508 639349	646262 665845	629954	651612	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 566434

SDG No.:

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2021 15:08 Calibration End Date: 01/18/2021 18:02 Calibration ID: 40928

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
4-Bromofluorobenzene (Surr)	CBNZd5	Ave	236843 242443	241755 229035	226479 258653	233746	245092	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 566434

SDG No.:

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2021 15:08 Calibration End Date: 01/18/2021 18:02 Calibration ID: 40928

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-566434/5	L5849.D
Level 2	IC 480-566434/6	L5850.D
Level 3	IC 480-566434/7	L5851.D
Level 4	IC 480-566434/8	L5852.D
Level 5	IC 480-566434/9	L5853.D
Level 6	ICIS 480-566434/10	L5854.D
Level 7	IC 480-566434/11	L5855.D
Level 8	IC 480-566434/12	L5856.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane	+++++	-3.8						30				
Chloromethane	5.3						30					
Vinyl chloride	-24.6						30					
Butadiene	-5.6						30					
Bromomethane	-17.0						30					
Chloroethane	+++++	-0.6						30				
Dichlorofluoromethane	10.1						30					
Trichlorofluoromethane	-16.9						30					
Ethyl ether	-12.8						30					
Acrolein	+++++	-21.2						30				
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++	-11.4						30				
1,1-Dichloroethene	+++++	-0.8						30				
Acetone	9.0						30					
Iodomethane	-13.1						30					
Carbon disulfide	-13.5						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 566434

SDG No.:

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2021 15:08 Calibration End Date: 01/18/2021 18:02 Calibration ID: 40928

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Allyl chloride	-6.5						30					
Methyl acetate	17.9						30					
Methylene Chloride	-5.9						30					
2-Methyl-2-propanol	+++++	-6.0						30				
Methyl tert-butyl ether	-3.1						30					
trans-1,2-Dichloroethene	-18.0						30					
Acrylonitrile	-2.1						30					
Hexane	+++++	-9.5						30				
Vinyl acetate	-8.3						30					
1,1-Dichloroethane	-14.4						30					
2,2-Dichloropropane	-11.4						30					
cis-1,2-Dichloroethene	-2.8						30					
2-Butanone (MEK)	-1.6						30					
Chlorobromomethane	-5.1						30					
Tetrahydrofuran	11.3						30					
Chloroform	11.2						30					
1,1,1-Trichloroethane	-13.0						30					
Cyclohexane	+++++	-4.3						30				
1,1-Dichloropropene	-12.8						30					
Carbon tetrachloride	+++++	-6.4						30				
Isobutyl alcohol	-16.1						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 566434

SDG No.:

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2021 15:08 Calibration End Date: 01/18/2021 18:02 Calibration ID: 40928

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Benzene	-5.4						30					
1,2-Dichloroethane	-2.8						30					
n-Heptane	-7.7						30					
Trichloroethene	-16.2						30					
Methylcyclohexane	-18.2						30					
1,2-Dichloropropane	-11.6						30					
1,4-Dioxane	+++++	2.0						30				
Dibromomethane	-0.6						30					
Bromodichloromethane	-11.2						30					
2-Chloroethyl vinyl ether	+++++	-3.3						30				
cis-1,3-Dichloropropene	-8.3						30					
4-Methyl-2-pentanone (MIBK)	-4.9						30					
Toluene	-5.5						30					
Ethyl methacrylate	+++++	-16.2						30				
trans-1,3-Dichloropropene	-9.6						30					
1,1,2-Trichloroethane	-11.8						30					
Tetrachloroethene	+++++	-4.1						30				
1,3-Dichloropropane	-6.7						30					
2-Hexanone	-8.8						30					
Dibromochloromethane	-9.1						30					
1,2-Dibromoethane	-23.6						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 566434

SDG No.:

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2021 15:08 Calibration End Date: 01/18/2021 18:02 Calibration ID: 40928

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Chlorobenzene	-5.8						30					
Ethylbenzene	-10.2						30					
1,1,1,2-Tetrachloroethane	-20.8						30					
m,p-Xylene	-10.4						30					
o-Xylene	-15.9						30					
Styrene	-16.8						30					
Bromoform	-16.3						30					
Isopropylbenzene	-11.7						30					
1,1,2,2-Tetrachloroethane	-5.2						30					
Bromobenzene	-5.7						30					
N-Propylbenzene	-14.8						30					
trans-1,4-Dichloro-2-butene	+++++	20.0						30				
1,2,3-Trichloropropane	-11.3						30					
2-Chlorotoluene	-17.1						30					
1,3,5-Trimethylbenzene	-8.5						30					
4-Chlorotoluene	-8.2						30					
tert-Butylbenzene	-17.1						30					
1,2,4-Trimethylbenzene	-10.9						30					
sec-Butylbenzene	-13.6						30					
4-Isopropyltoluene	-12.2						30					
1,3-Dichlorobenzene	-4.3						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 566434

SDG No.:

Instrument ID: HP5977L GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2021 15:08 Calibration End Date: 01/18/2021 18:02 Calibration ID: 40928

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
1,4-Dichlorobenzene	1.8						30					
n-Butylbenzene	-8.5						30					
1,2-Dichlorobenzene	-10.2						30					
1,2-Dibromo-3-Chloropropane	-6.6						30					
1,2,4-Trichlorobenzene	-8.2						30					
Hexachlorobutadiene	-17.4						30					
Naphthalene	-6.7						30					
1,2,3-Trichlorobenzene	-15.8						30					
Dibromofluoromethane (Surr)	1.1						30					
1,2-Dichloroethane-d4 (Surr)	0.7						30					
Toluene-d8 (Surr)	-2.7						30					
4-Bromofluorobenzene (Surr)	-6.1						30					

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5849.D
Lims ID: IC 0.4
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 18-Jan-2021 15:08:35 ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 0.4
Misc. Info.: 480-0096150-005
Operator ID: LH Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 19-Jan-2021 11:28:11 Calib Date: 18-Jan-2021 22:35:42
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5867.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1610

First Level Reviewer: HillL Date: 19-Jan-2021 10:41:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.482	6.485	-0.003	99	131410	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.443	9.447	-0.004	86	576990	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.736	11.736	0.000	96	312534	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.913	5.913	0.000	93	185220	25.0	25.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.228	6.228	0.000	98	222125	25.0	25.2	
$ 6 Toluene-d8 (Surr)	98	7.948	7.948	0.000	93	666516	25.0	24.3	
$ 7 4-Bromofluorobenzene (Surr)	174	10.652	10.652	0.000	99	236843	25.0	23.5	
10 Dichlorodifluoromethane	85	2.177	2.170	0.007	85	3078	0.4000	0.3077	
13 Chloromethane	50	2.428	2.434	-0.006	0	3810	0.4000	0.4213	M
14 Vinyl chloride	62	2.559	2.562	-0.003	86	2157	0.4000	0.3016	
15 Butadiene	54	2.572	2.572	0.000	80	2879	0.4000	0.3777	
18 Bromomethane	94	2.958	2.958	0.000	71	1696	0.4000	0.3319	
19 Chloroethane	64	3.061	3.058	0.003	0	1187	0.4000	0.2831	M
20 Dichlorofluoromethane	67	3.283	3.286	-0.003	92	5230	0.4000	0.4404	
21 Trichlorofluoromethane	101	3.302	3.299	0.003	94	4431	0.4000	0.3324	
26 Ethyl ether	59	3.585	3.582	0.003	91	2114	0.4000	0.3488	
28 Acrolein	56		3.788				ND	ND	
29 112TCTFE	101	3.810	3.810	0.000	0	1460	0.4000	0.2382	M
30 1,1-Dichloroethene	96	3.842	3.839	0.003	0	1736	0.4000	0.2845	M
31 Acetone	43	3.942	3.932	0.010	99	6238	2.00	2.18	
33 Iodomethane	142	4.029	4.025	0.004	95	4005	0.4000	0.3475	
35 Carbon disulfide	76	4.087	4.083	0.004	0	6904	0.4000	0.3461	M
37 3-Chloro-1-propene	41	4.199	4.199	0.000	78	3921	0.4000	0.3738	
38 Methyl acetate	43	4.209	4.209	0.000	97	6010	0.8000	0.9429	
39 Methylene Chloride	84	4.337	4.337	0.000	95	5571	0.4000	0.3765	
40 2-Methyl-2-propanol	59	4.434	4.431	0.003	91	2516	4.00	2.98	
41 Methyl tert-butyl ether	73	4.508	4.514	-0.006	95	8466	0.4000	0.3875	
42 trans-1,2-Dichloroethene	96	4.556	4.559	-0.003	95	2413	0.4000	0.3282	
44 Acrylonitrile	53	4.601	4.598	0.003	99	12831	4.00	3.92	
47 Hexane	57	4.720	4.717	0.003	87	2776	0.4000	0.2760	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
49 Vinyl acetate	43	4.961	4.958	0.003	97	12132	0.8000	0.7339	
50 1,1-Dichloroethane	63	4.958	4.958	0.000	64	4487	0.4000	0.3423	
56 2,2-Dichloropropane	77	5.453	5.456	-0.003	0	3533	0.4000	0.3546	M
57 2-Butanone (MEK)	43	5.482	5.482	0.000	96	8484	2.00	1.97	
58 cis-1,2-Dichloroethene	96	5.479	5.482	-0.003	73	3313	0.4000	0.3888	
60 Chlorobromomethane	128	5.717	5.714	0.003	77	1718	0.4000	0.3796	
61 Tetrahydrofuran	42	5.730	5.730	0.000	52	2347	0.8000	0.8902	
62 Chloroform	83	5.759	5.759	0.000	93	6847	0.4000	0.4448	
64 1,1,1-Trichloroethane	97	5.903	5.903	0.000	36	4780	0.4000	0.3479	
65 Cyclohexane	56	5.919	5.923	-0.004	49	3433	0.4000	0.2719	
66 Carbon tetrachloride	117	6.042	6.038	0.004	0	3789	0.4000	0.2938	M
67 1,1-Dichloropropene	75	6.045	6.038	0.007	90	3654	0.4000	0.3489	
69 Isobutyl alcohol	43	6.151	6.135	0.016	83	3000	10.0	8.39	
70 Benzene	78	6.247	6.244	0.003	93	11169	0.4000	0.3784	
72 1,2-Dichloroethane	62	6.296	6.299	-0.003	91	4883	0.4000	0.3886	
73 n-Heptane	43	6.344	6.337	0.007	86	3720	0.4000	0.3694	
75 Trichloroethene	95	6.813	6.813	0.000	93	2833	0.4000	0.3353	
76 Methylcyclohexane	83	6.945	6.945	0.000	87	3936	0.4000	0.3273	
77 1,2-Dichloropropane	63	7.061	7.058	0.003	83	2621	0.4000	0.3536	
81 1,4-Dioxane	88		7.164				ND	ND	
82 Dibromomethane	93	7.209	7.199	0.010	88	2104	0.4000	0.3977	
83 Dichlorobromomethane	83	7.321	7.318	0.003	93	4021	0.4000	0.3552	
84 2-Chloroethyl vinyl ether	63	7.540	7.540	0.000	0	1591	0.4000	0.3074	M
85 cis-1,3-Dichloropropene	75	7.717	7.717	0.000	93	4754	0.4000	0.3668	
87 4-Methyl-2-pentanone (MIBK)	43	7.820	7.820	0.000	93	17099	2.00	1.90	
88 Toluene	92	8.016	8.016	0.000	0	7961	0.4000	0.3781	M
90 Ethyl methacrylate	69	8.247	8.244	0.003	0	3257	0.4000	0.3192	M
91 trans-1,3-Dichloropropene	75	8.257	8.257	0.000	88	4668	0.4000	0.3617	
93 1,1,2-Trichloroethane	83	8.460	8.463	-0.003	84	2117	0.4000	0.3527	
94 Tetrachloroethene	166	8.559	8.553	0.006	79	3068	0.4000	0.3106	
95 1,3-Dichloropropane	76	8.640	8.636	0.004	0	4698	0.4000	0.3732	M
96 2-Hexanone	43	8.643	8.643	0.000	92	12199	2.00	1.82	
98 Chlorodibromomethane	129	8.884	8.884	0.000	0	3503	0.4000	0.3636	M
101 Ethylene Dibromide	107	9.013	9.022	-0.009	96	2485	0.4000	0.3058	
103 Chlorobenzene	112	9.476	9.475	0.001	0	9201	0.4000	0.3770	M
104 Ethylbenzene	91	9.533	9.533	0.000	96	14754	0.4000	0.3594	
105 1,1,1,2-Tetrachloroethane	131	9.559	9.556	0.003	85	2955	0.4000	0.3169	
106 m-Xylene & p-Xylene	106	9.649	9.649	0.000	96	5788	0.4000	0.3583	
107 o-Xylene	106	10.083	10.090	-0.007	93	5203	0.4000	0.3366	
109 Styrene	104	10.115	10.112	0.003	90	8858	0.4000	0.3327	
110 Bromoform	173	10.392	10.389	0.003	0	2363	0.4000	0.3346	M
111 Isopropylbenzene	105	10.440	10.437	0.003	95	14041	0.4000	0.3532	
112 1,1,2,2-Tetrachloroethane	83	10.813	10.813	0.000	85	3865	0.4000	0.3790	
113 Bromobenzene	156	10.826	10.823	0.003	89	3968	0.4000	0.3774	
114 N-Propylbenzene	91	10.842	10.845	-0.003	0	15677	0.4000	0.3408	M
115 trans-1,4-Dichloro-2-butene	53	10.855	10.855	0.000	53	342	0.4000	0.8683	
116 1,2,3-Trichloropropane	110	10.874	10.868	0.006	80	1312	0.4000	0.3549	
117 2-Chlorotoluene	126	10.977	10.977	0.000	0	3110	0.4000	0.3314	M
118 1,3,5-Trimethylbenzene	105	11.000	11.000	0.000	94	12599	0.4000	0.3660	
119 4-Chlorotoluene	91	11.080	11.077	0.003	95	10947	0.4000	0.3674	
120 tert-Butylbenzene	134	11.315	11.315	0.000	90	2396	0.4000	0.3316	
121 1,2,4-Trimethylbenzene	105	11.363	11.366	-0.003	94	12603	0.4000	0.3565	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	11.514	11.514	0.000	92	14445	0.4000	0.3455	
123 4-Isopropyltoluene	119	11.630	11.630	0.000	97	13417	0.4000	0.3511	
124 1,3-Dichlorobenzene	146	11.681	11.678	0.003	95	7797	0.4000	0.3827	
126 1,4-Dichlorobenzene	146	11.755	11.758	-0.003	0	8569	0.4000	0.4073	M
127 n-Butylbenzene	91	11.996	11.996	0.000	96	11998	0.4000	0.3659	
128 1,2-Dichlorobenzene	146	12.099	12.099	0.000	90	6955	0.4000	0.3592	
129 1,2-Dibromo-3-Chloropropane	75	12.781	12.774	0.007	42	906	0.4000	0.3736	
130 1,2,4-Trichlorobenzene	180	13.443	13.443	0.000	90	5481	0.4000	0.3673	
131 Hexachlorobutadiene	225	13.530	13.530	0.000	85	2461	0.4000	0.3305	
132 Naphthalene	128	13.701	13.697	0.004	97	13655	0.4000	0.3730	
133 1,2,3-Trichlorobenzene	180	13.919	13.922	-0.003	87	4682	0.4000	0.3370	
S 143 Xylenes, Total	1				0			0.6949	
S 142 Total BTEX	1				0			1.81	
S 144 1,3-Dichloropropene, Total	1				0			0.7285	
S 141 1,2-Dichloroethene, Total	1				0			0.7170	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00199	Amount Added:	0.40	Units: uL	
GAS CORP mix_00437	Amount Added:	0.40	Units: uL	
L_8260_IS_00023	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_SURR_00022	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 19-Jan-2021 11:28:11 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5849.D

Injection Date: 18-Jan-2021 15:08:35 Instrument ID: HP5977L

Lims ID: IC 0.4

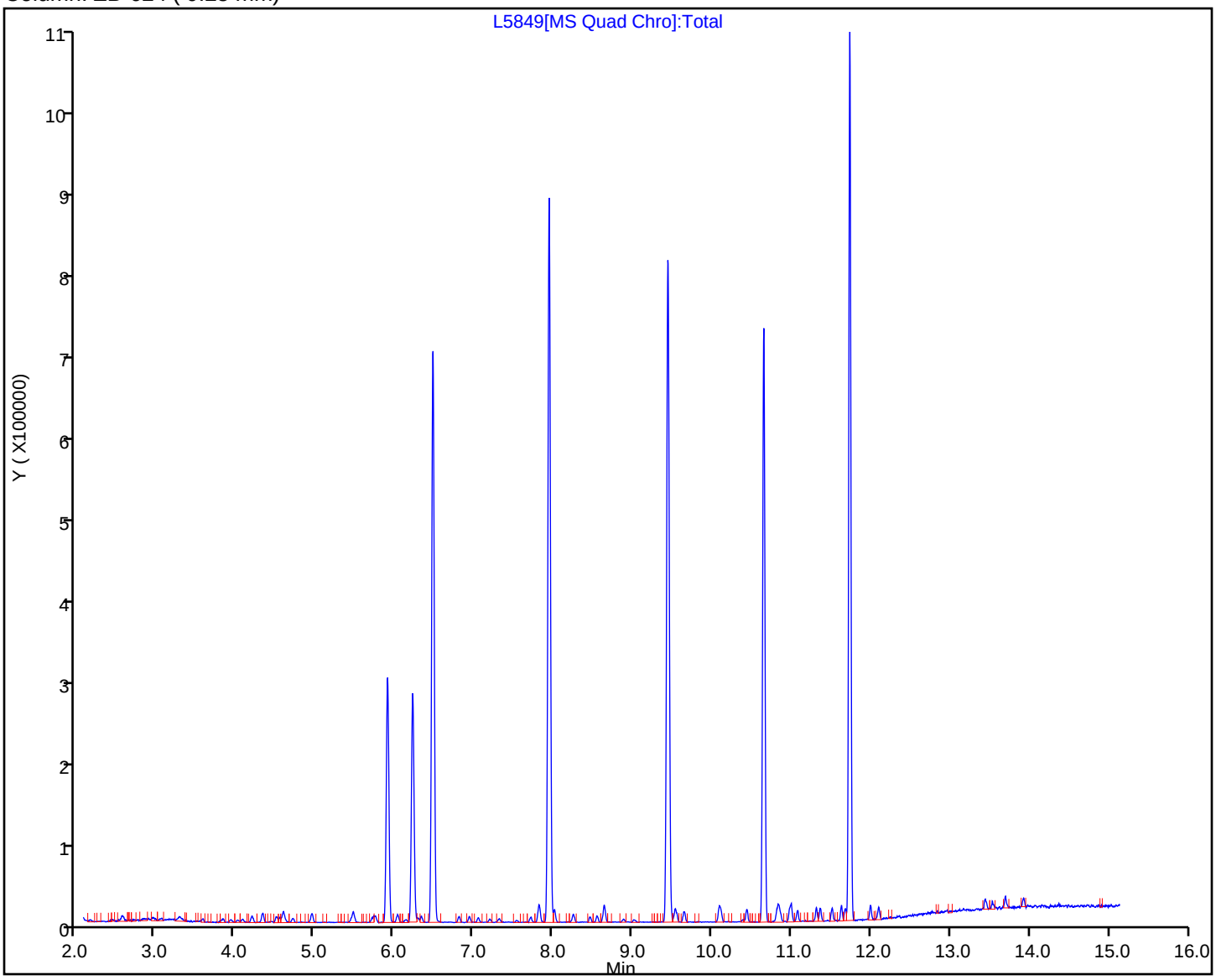
Client ID:

Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 5

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Eurofins TestAmerica, Buffalo

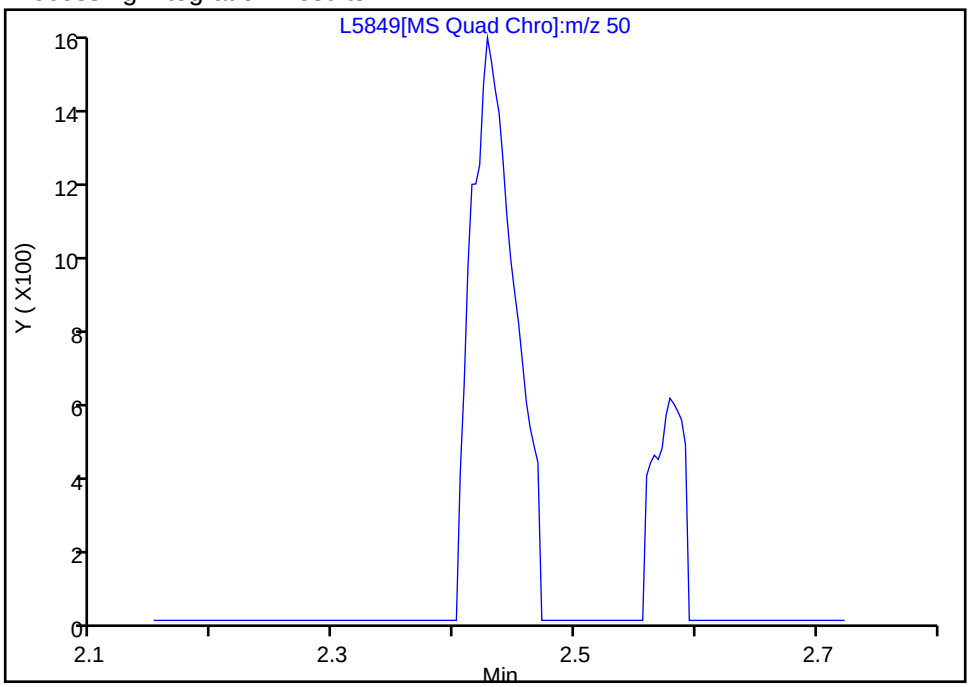
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5849.D
Injection Date: 18-Jan-2021 15:08:35 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

13 Chloromethane, CAS: 74-87-3

Signal: 1

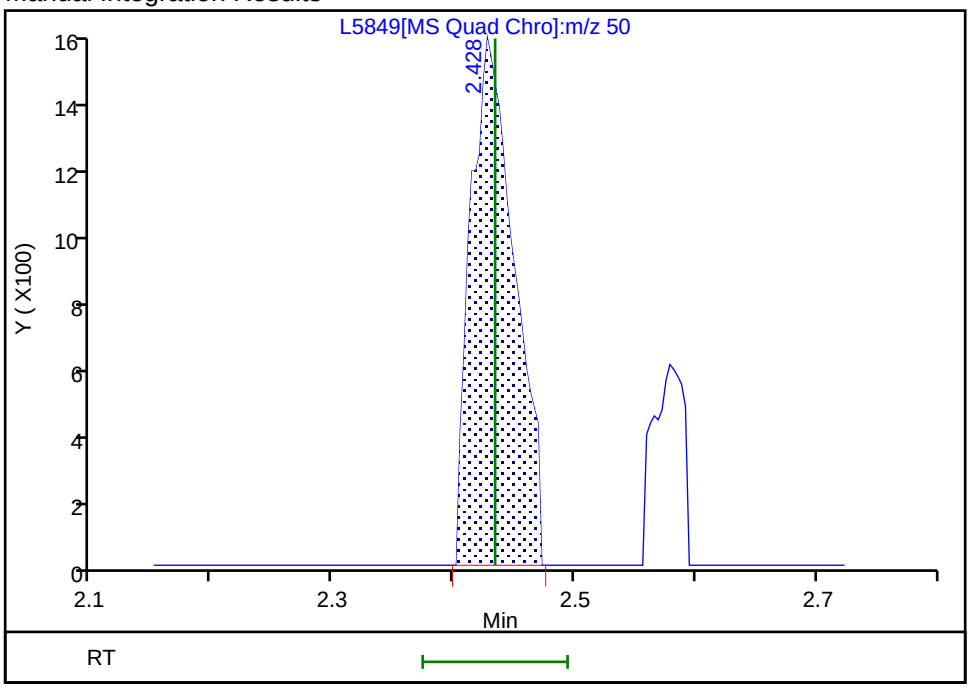
Not Detected
Expected RT: 2.43

Processing Integration Results



Manual Integration Results

RT: 2.43
Area: 3810
Amount: 0.421271
Amount Units: ug/L



Reviewer: HillL, 19-Jan-2021 10:38:48
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

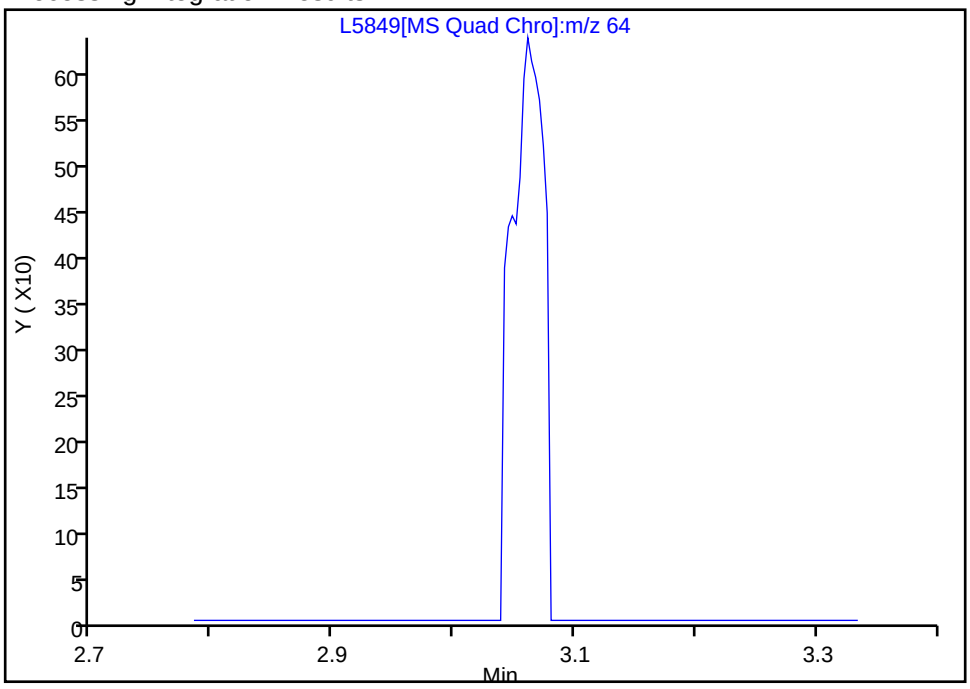
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5849.D
Injection Date: 18-Jan-2021 15:08:35 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

19 Chloroethane, CAS: 75-00-3

Signal: 1

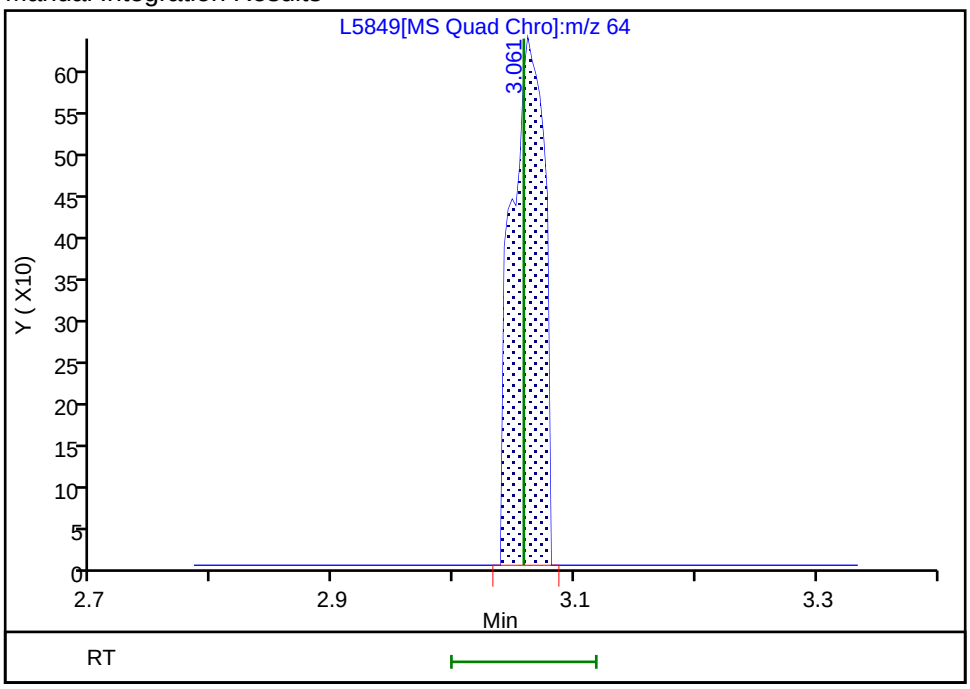
Not Detected
Expected RT: 3.06

Processing Integration Results



Manual Integration Results

RT: 3.06
Area: 1187
Amount: 0.283067
Amount Units: ug/L



Reviewer: HillL, 19-Jan-2021 10:38:57
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

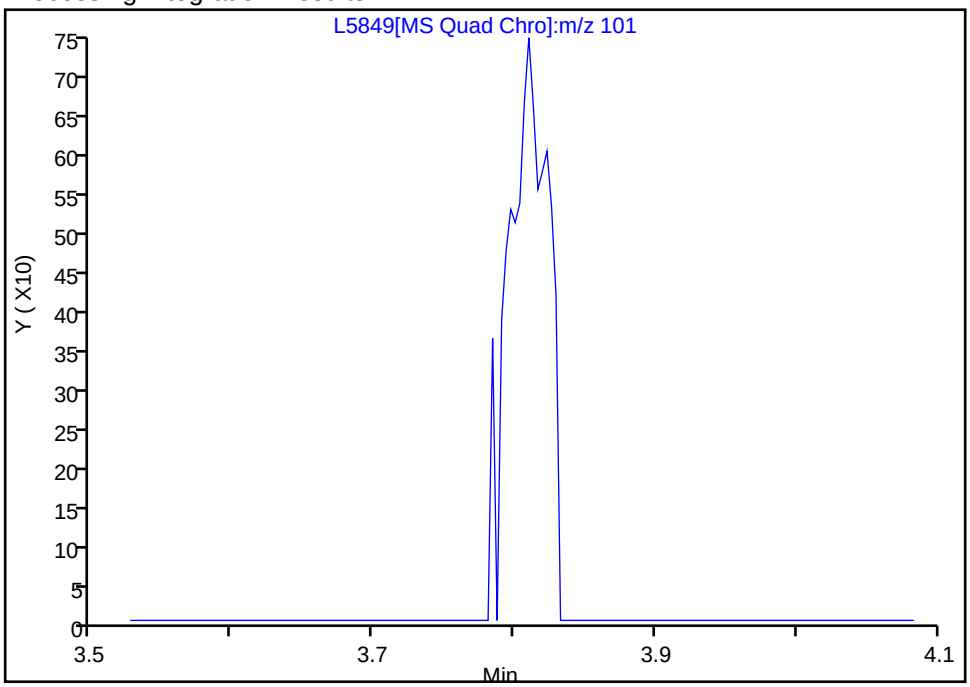
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5849.D
Injection Date: 18-Jan-2021 15:08:35 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

29 112TCTFE, CAS: 76-13-1

Signal: 1

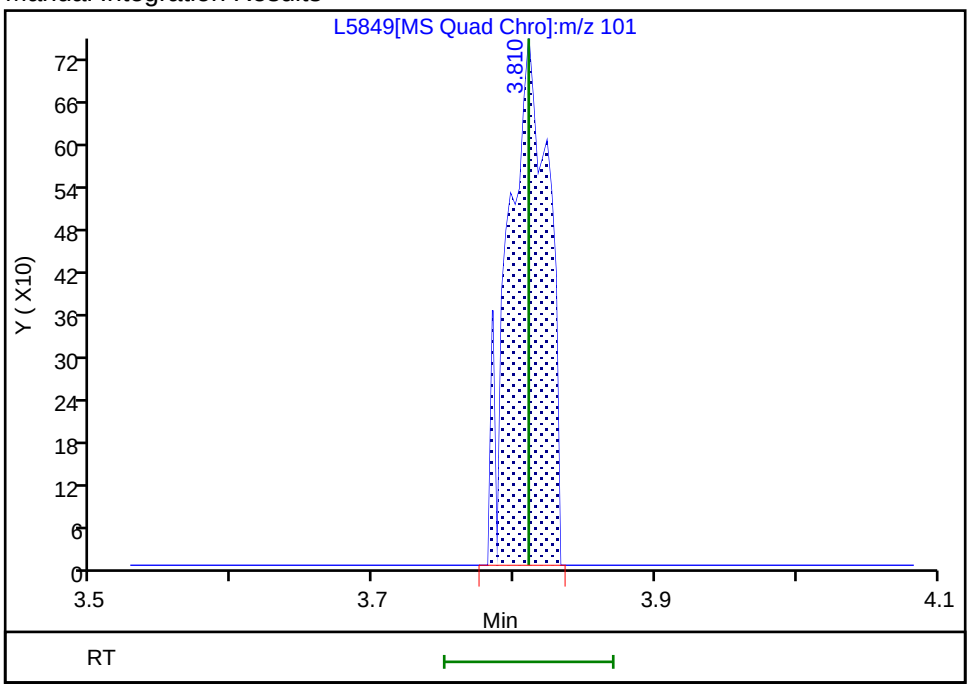
Not Detected
Expected RT: 3.81

Processing Integration Results



Manual Integration Results

RT: 3.81
Area: 1460
Amount: 0.238233
Amount Units: ug/L



Reviewer: HillL, 19-Jan-2021 10:39:08
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

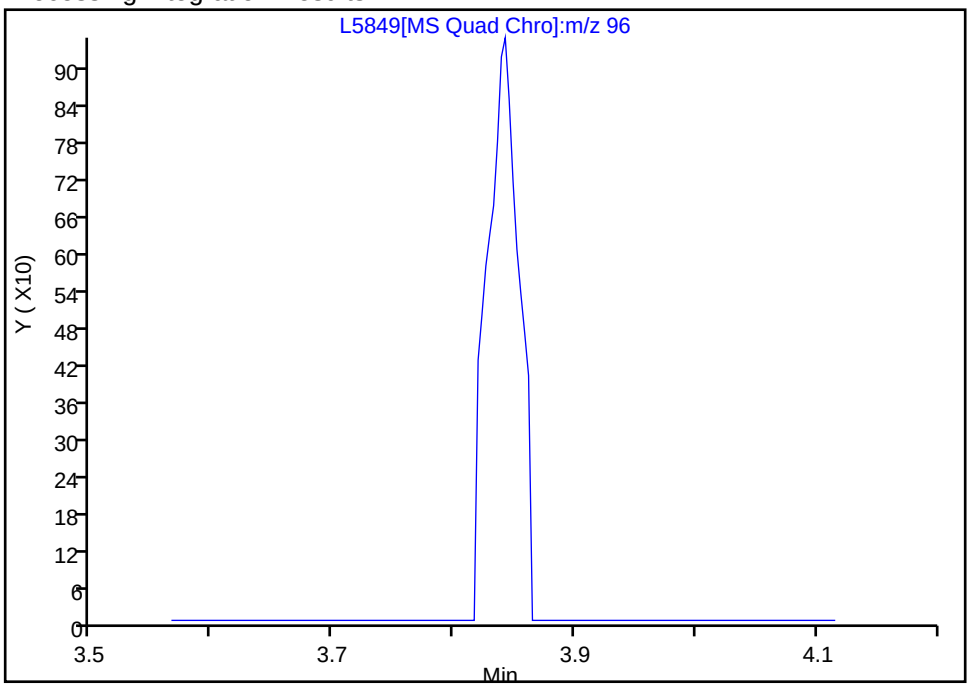
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5849.D
Injection Date: 18-Jan-2021 15:08:35 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

30 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

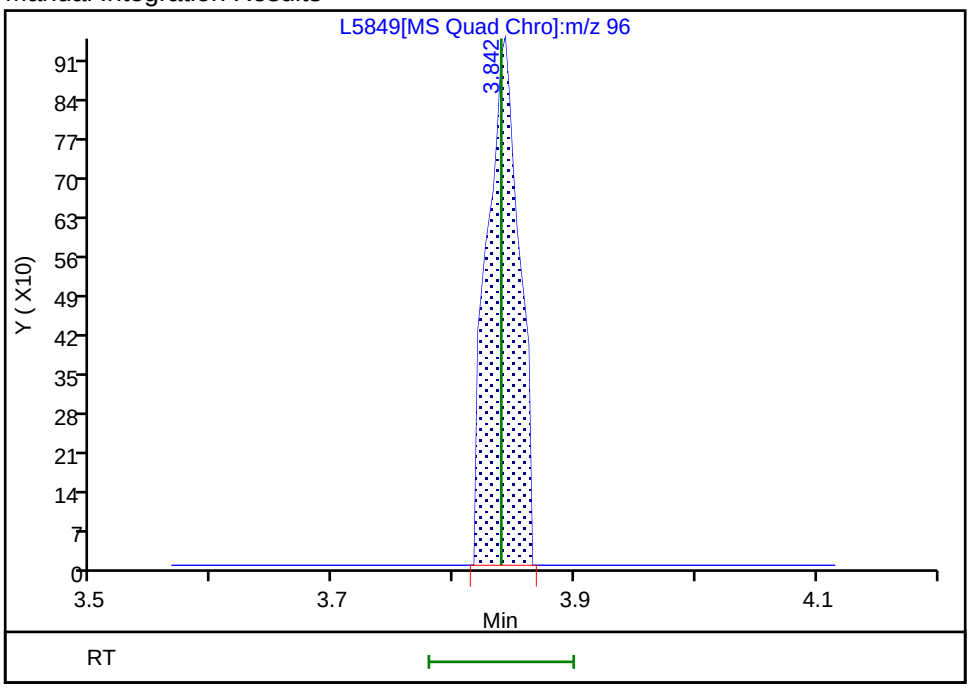
Not Detected
Expected RT: 3.84

Processing Integration Results



Manual Integration Results

RT: 3.84
Area: 1736
Amount: 0.284478
Amount Units: ug/L



Reviewer: HillL, 19-Jan-2021 10:39:12
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

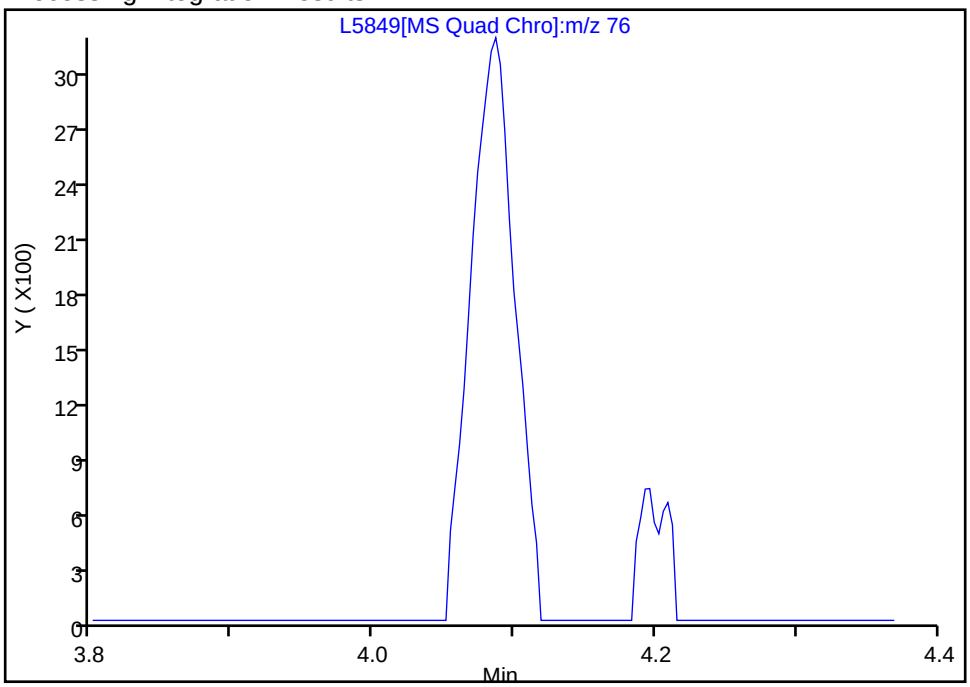
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5849.D
Injection Date: 18-Jan-2021 15:08:35 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

35 Carbon disulfide, CAS: 75-15-0

Signal: 1

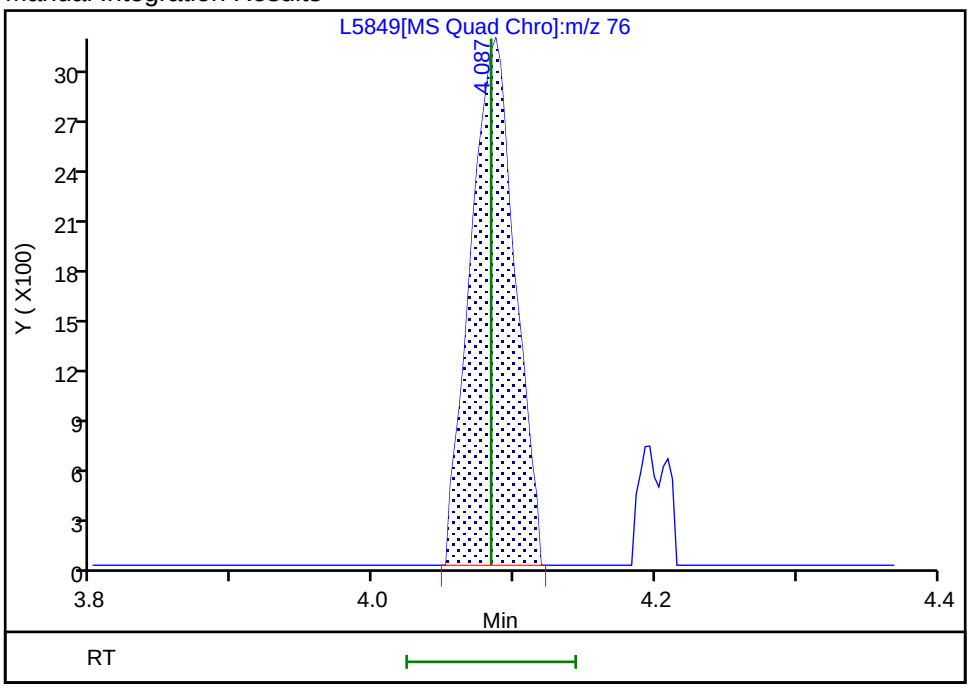
Not Detected
Expected RT: 4.08

Processing Integration Results



Manual Integration Results

RT: 4.09
Area: 6904
Amount: 0.346060
Amount Units: ug/L



Reviewer: HillL, 19-Jan-2021 10:39:20
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

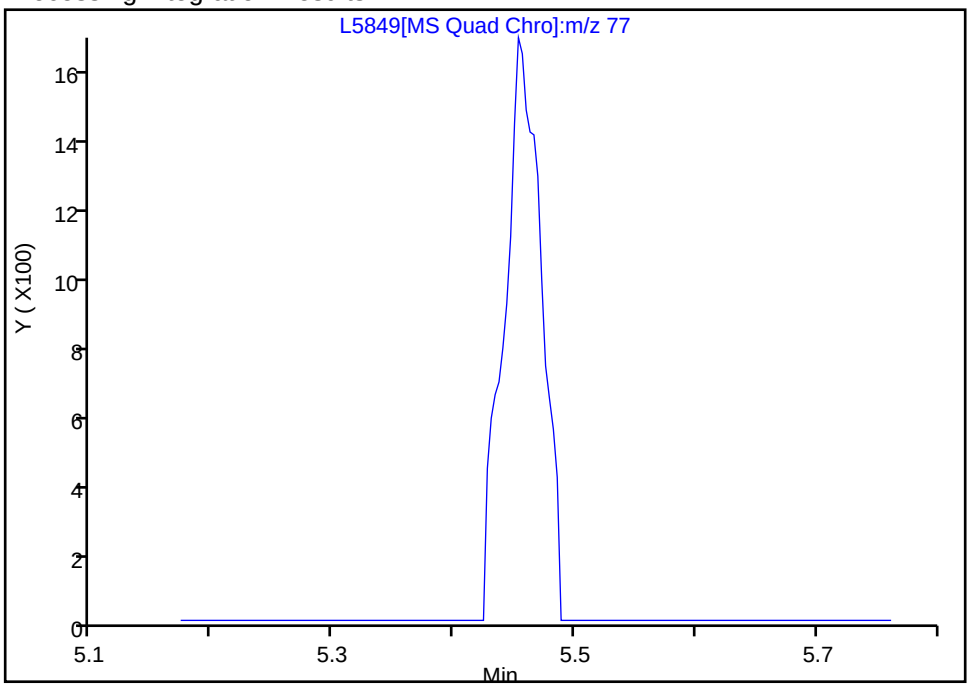
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5849.D
Injection Date: 18-Jan-2021 15:08:35 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

56 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

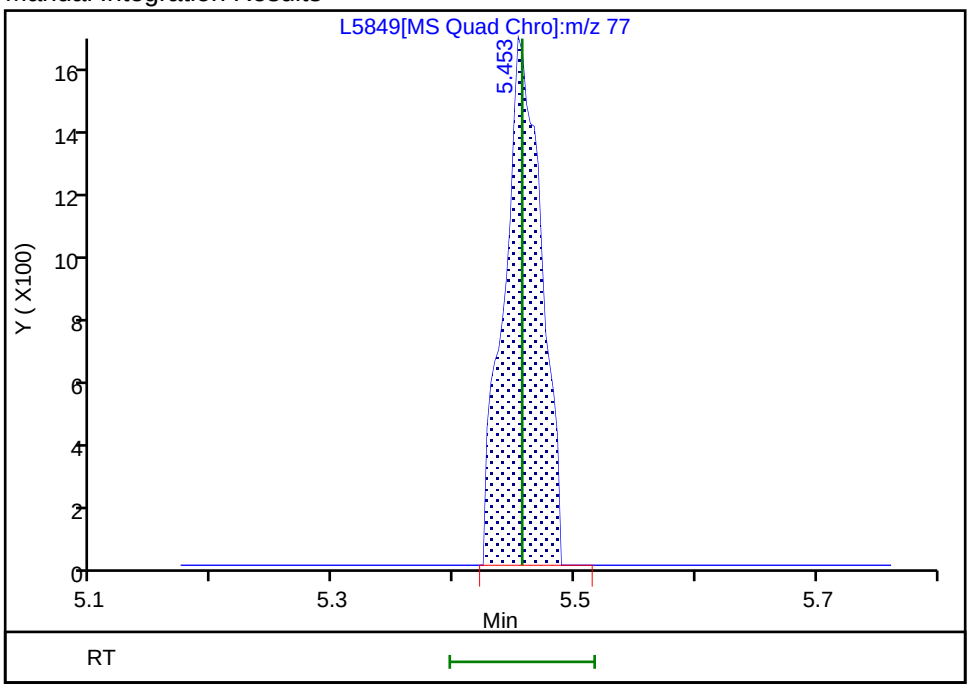
Not Detected
Expected RT: 5.46

Processing Integration Results



Manual Integration Results

RT: 5.45
Area: 3533
Amount: 0.354573
Amount Units: ug/L



Reviewer: HillL, 19-Jan-2021 10:39:32
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

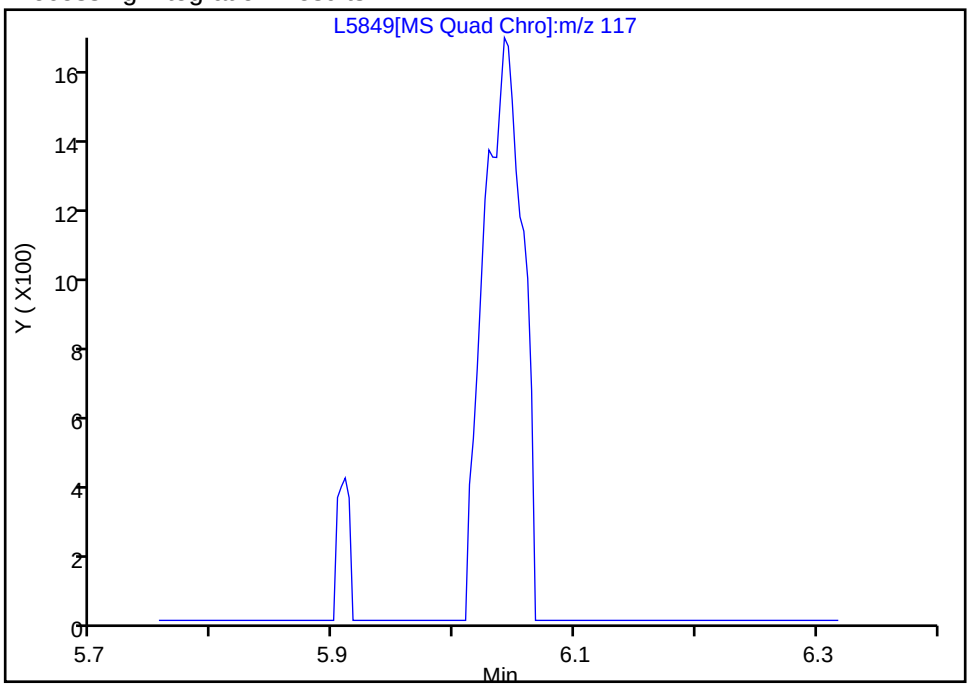
Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5849.D				
Injection Date:	18-Jan-2021 15:08:35	Instrument ID:	HP5977L		
Lims ID:	IC 0.4				
Client ID:					
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

66 Carbon tetrachloride, CAS: 56-23-5

Signal: 1

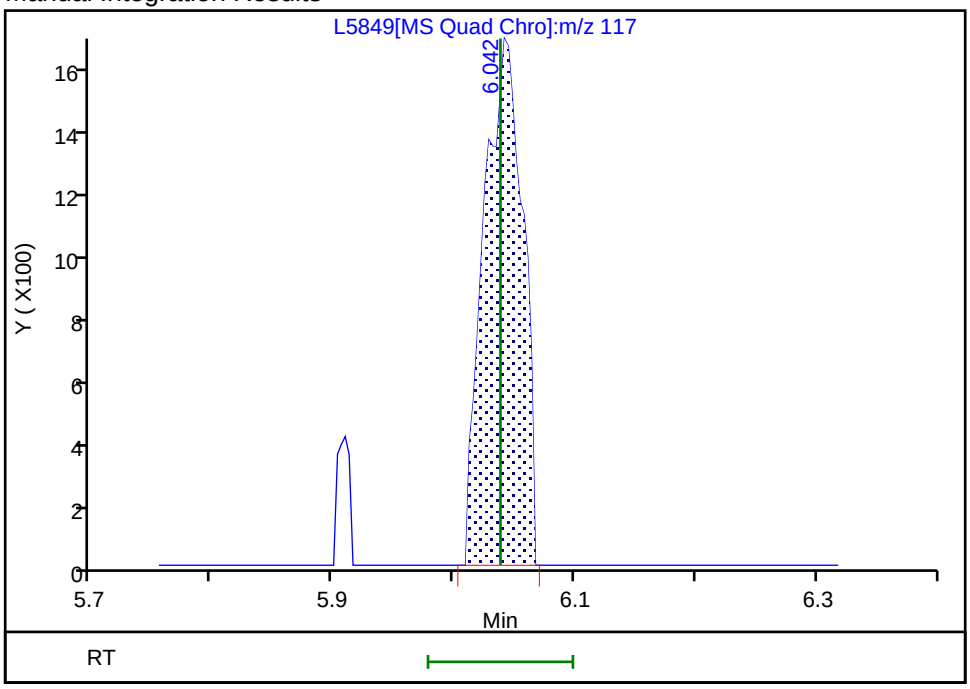
Not Detected
Expected RT: 6.04

Processing Integration Results



Manual Integration Results

RT: 6.04
Area: 3789
Amount: 0.293822
Amount Units: ug/L



Reviewer: HillL, 19-Jan-2021 10:39:43
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

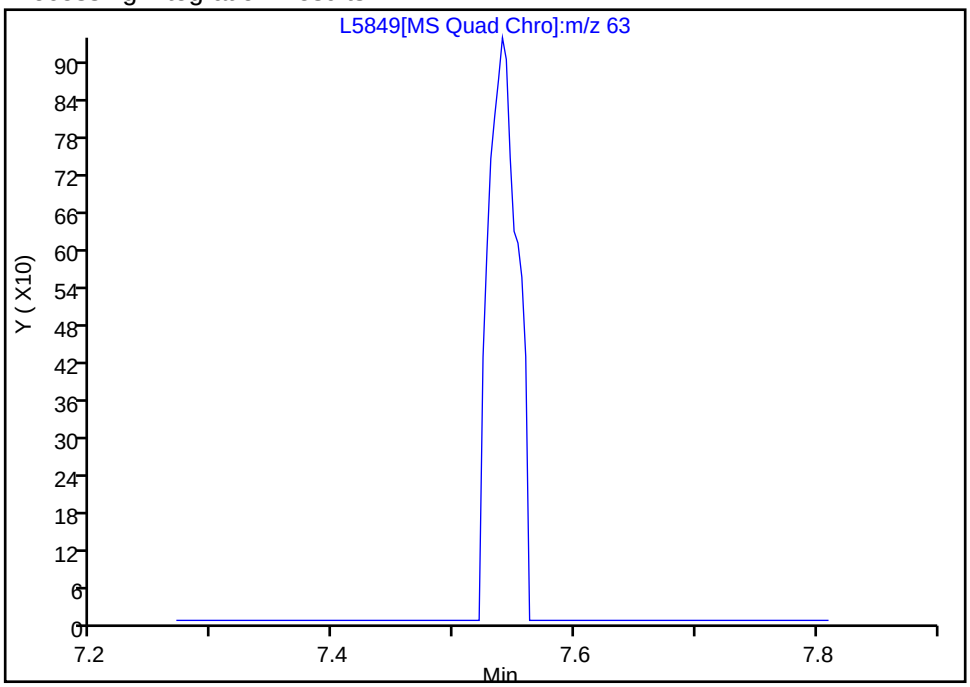
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5849.D
Injection Date: 18-Jan-2021 15:08:35 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

84 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

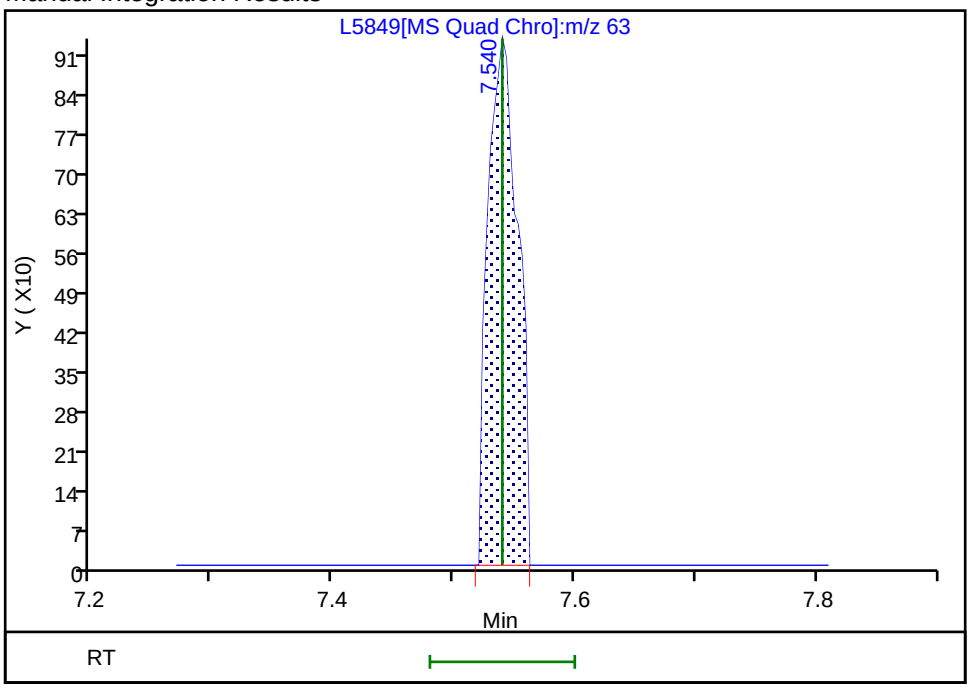
Not Detected
Expected RT: 7.54

Processing Integration Results



Manual Integration Results

RT: 7.54
Area: 1591
Amount: 0.307409
Amount Units: ug/L



Reviewer: HillL, 19-Jan-2021 10:40:01
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

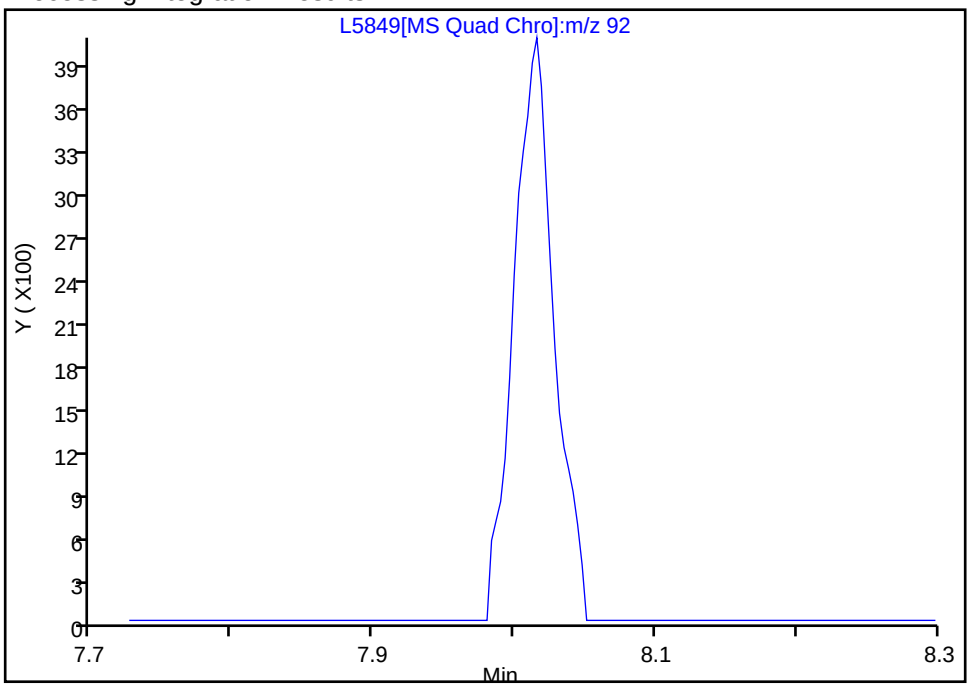
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5849.D
Injection Date: 18-Jan-2021 15:08:35 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

88 Toluene, CAS: 108-88-3

Signal: 1

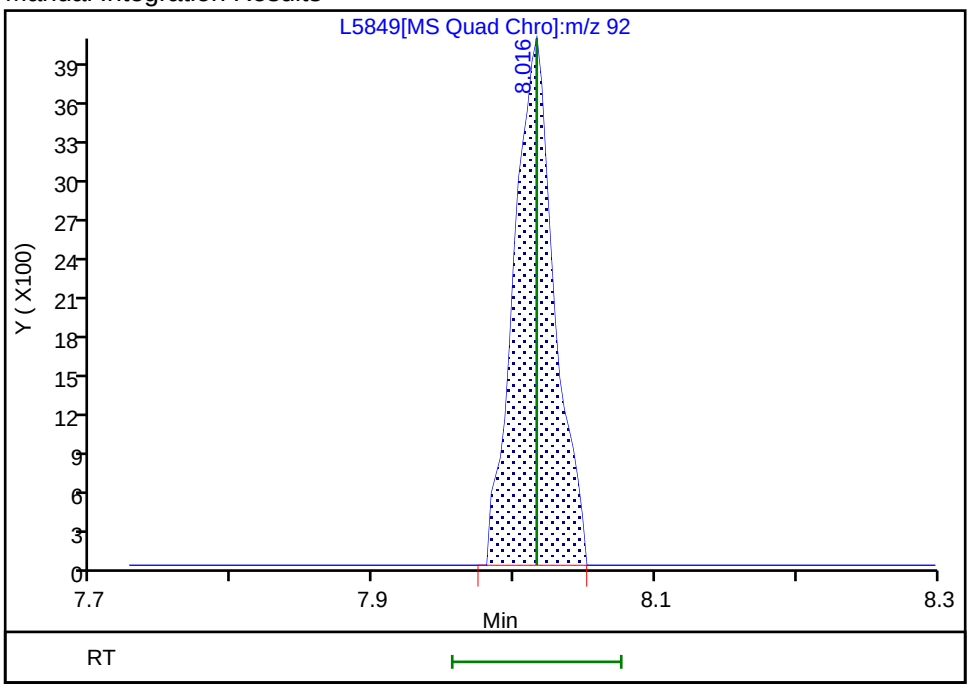
Not Detected
Expected RT: 8.02

Processing Integration Results



Manual Integration Results

RT: 8.02
Area: 7961
Amount: 0.378150
Amount Units: ug/L



Reviewer: HillL, 19-Jan-2021 10:40:09
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

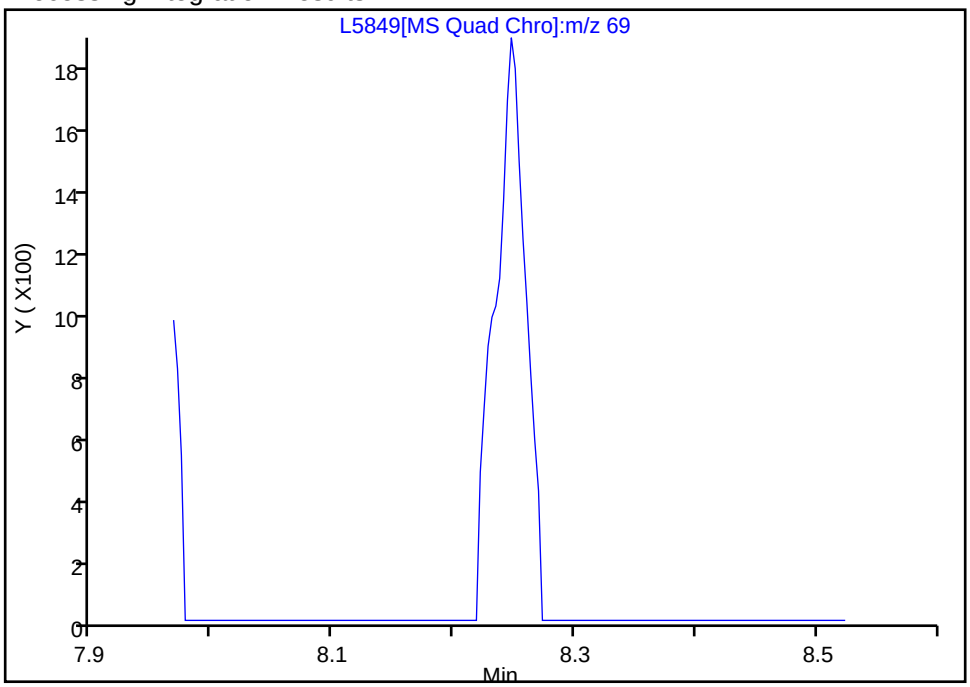
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5849.D
Injection Date: 18-Jan-2021 15:08:35 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

90 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

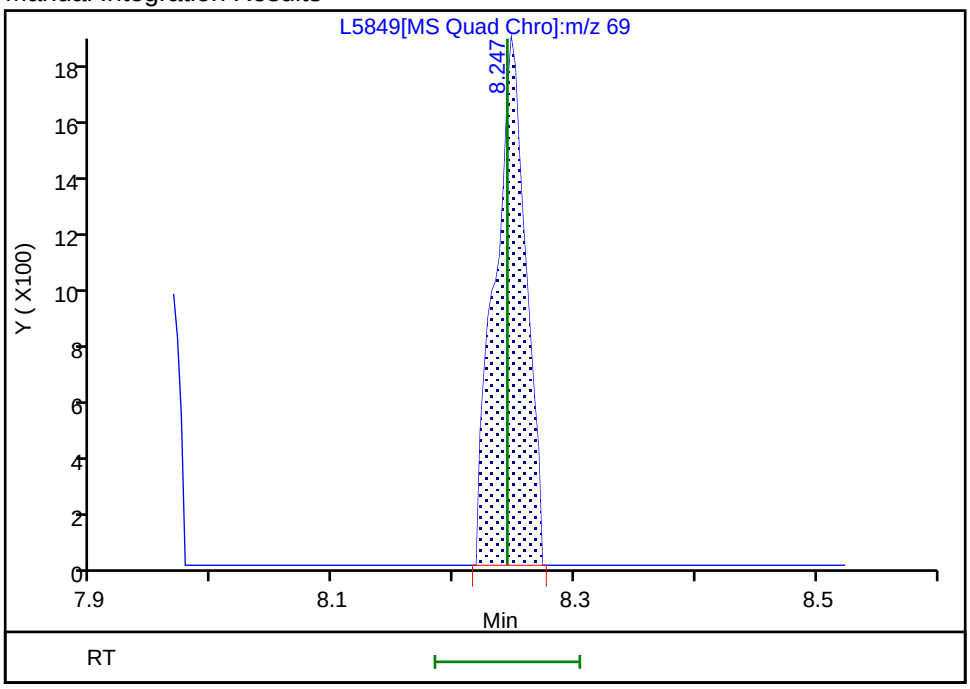
Not Detected
Expected RT: 8.24

Processing Integration Results



Manual Integration Results

RT: 8.25
Area: 3257
Amount: 0.319206
Amount Units: ug/L



Reviewer: HillL, 19-Jan-2021 10:40:17
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

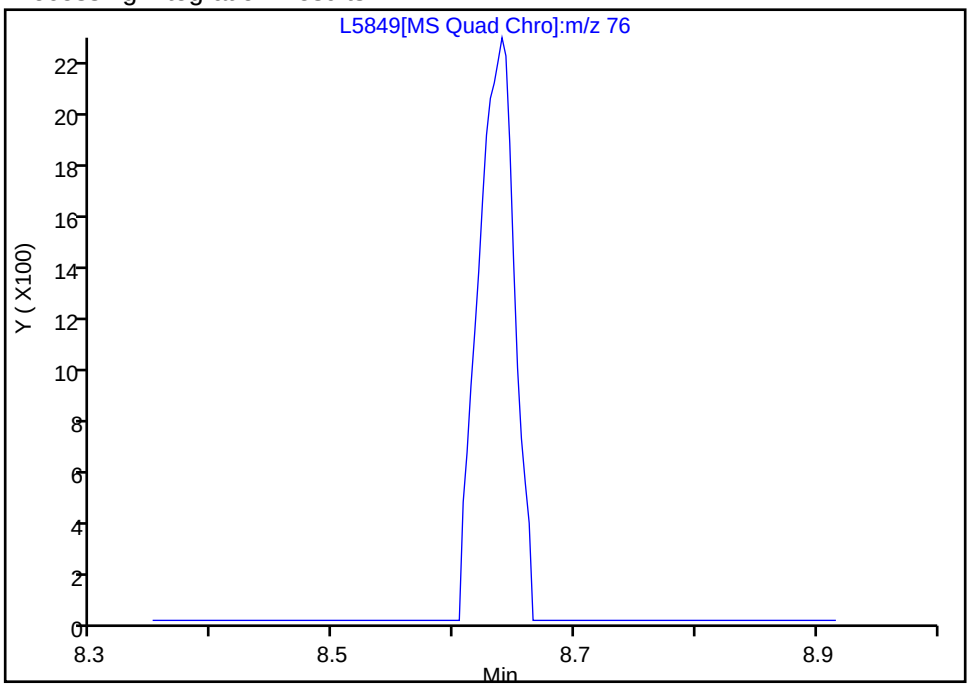
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5849.D
Injection Date: 18-Jan-2021 15:08:35 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

95 1,3-Dichloropropane, CAS: 142-28-9

Signal: 1

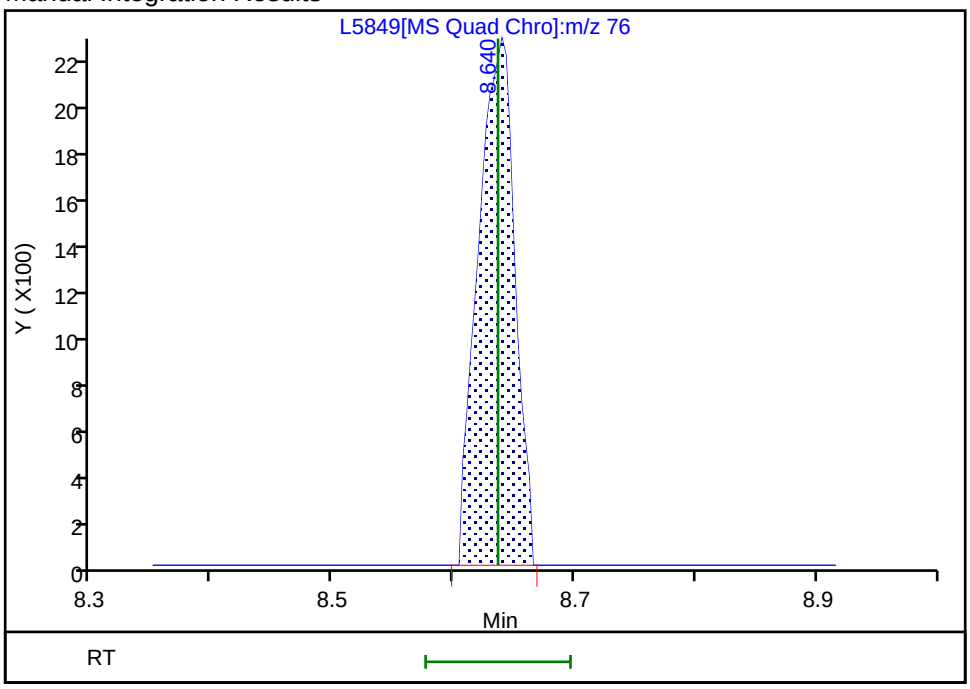
Not Detected
Expected RT: 8.64

Processing Integration Results



Manual Integration Results

RT: 8.64
Area: 4698
Amount: 0.373150
Amount Units: ug/L



Reviewer: HillL, 19-Jan-2021 10:40:24
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

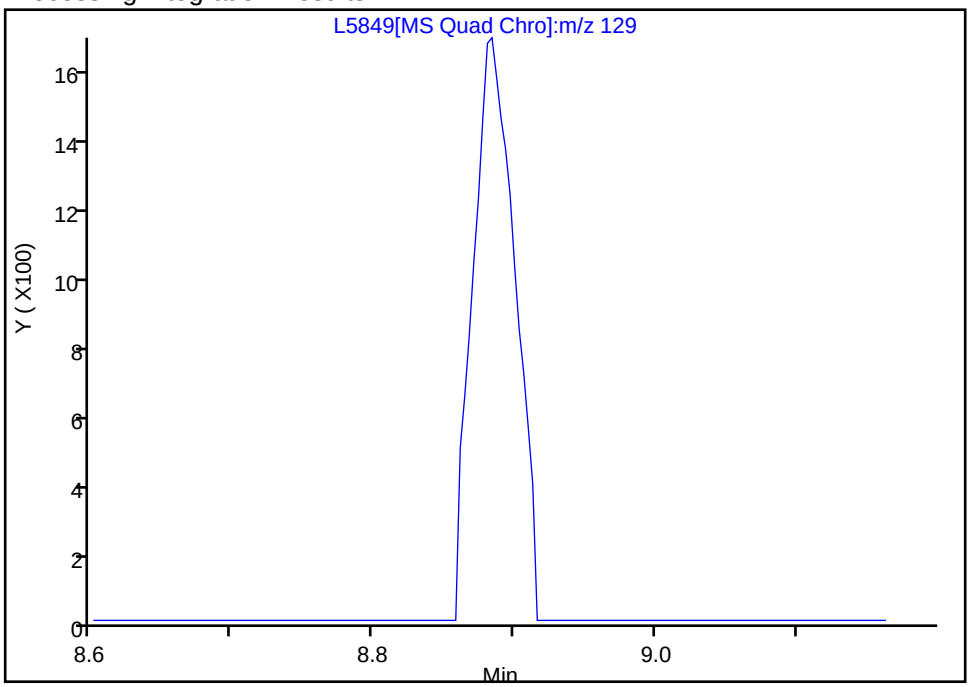
Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5849.D				
Injection Date:	18-Jan-2021 15:08:35	Instrument ID:	HP5977L		
Lims ID:	IC 0.4				
Client ID:					
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

98 Chlorodibromomethane, CAS: 124-48-1

Signal: 1

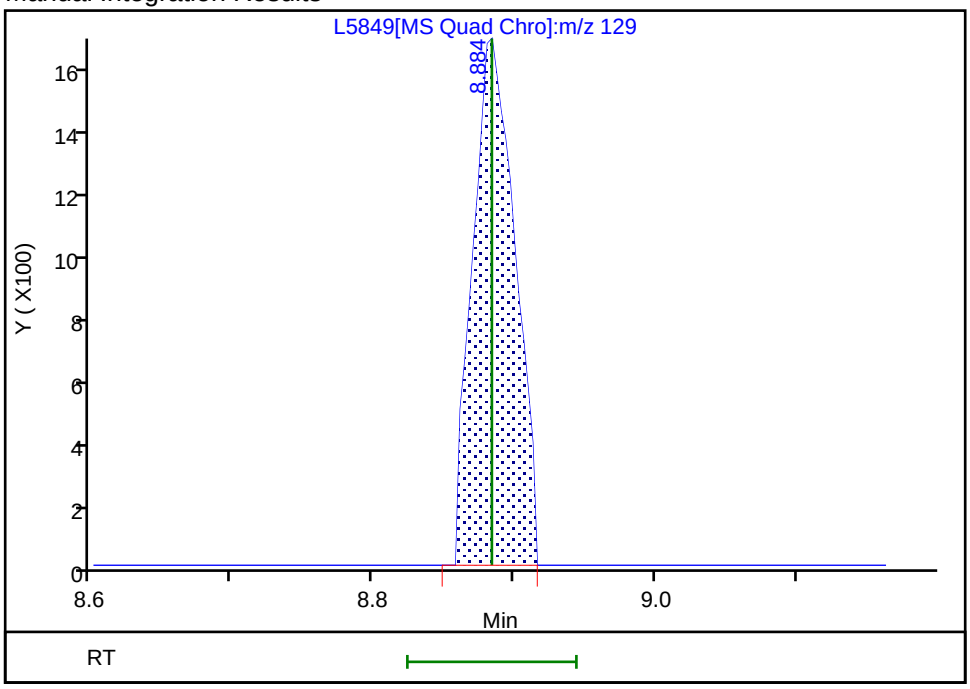
Not Detected
Expected RT: 8.88

Processing Integration Results



Manual Integration Results

RT: 8.88
Area: 3503
Amount: 0.363644
Amount Units: ug/L



Reviewer: HillL, 19-Jan-2021 10:40:30
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

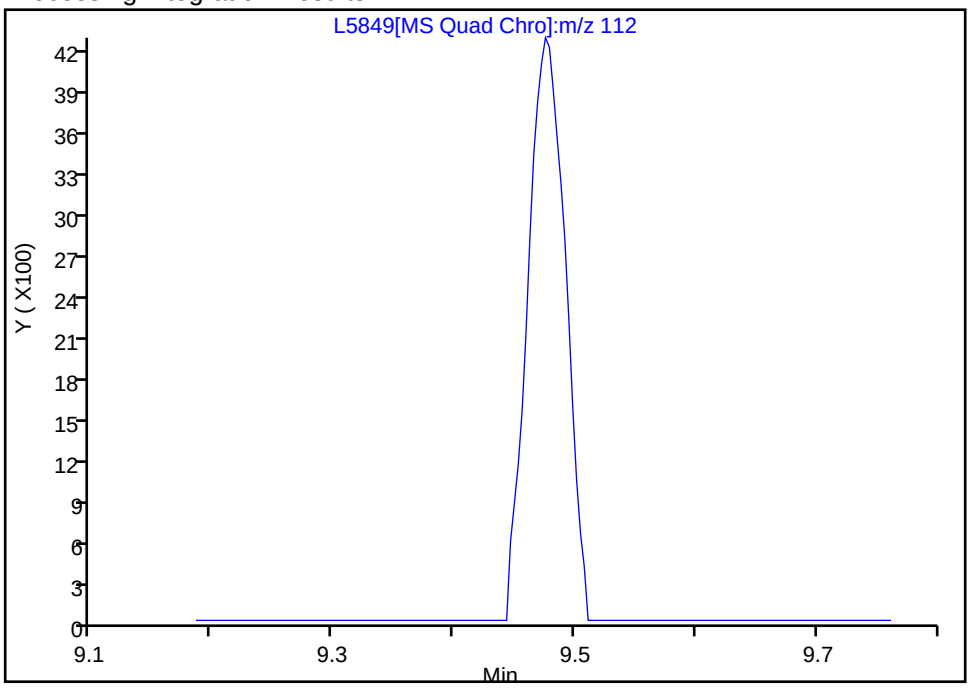
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5849.D
Injection Date: 18-Jan-2021 15:08:35 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

103 Chlorobenzene, CAS: 108-90-7

Signal: 1

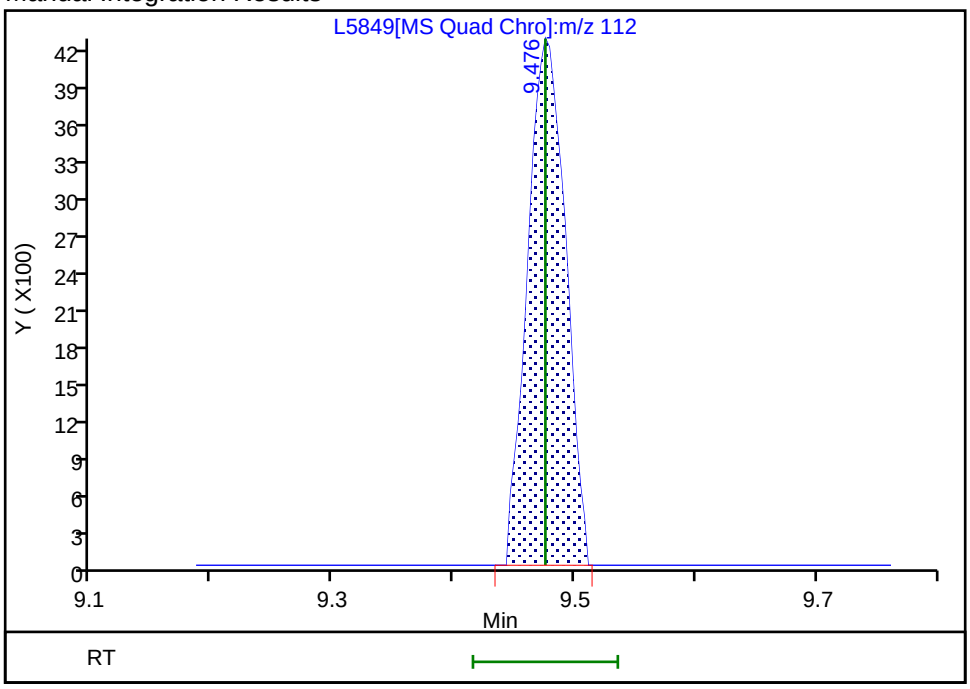
Not Detected
Expected RT: 9.48

Processing Integration Results



Manual Integration Results

RT: 9.48
Area: 9201
Amount: 0.376980
Amount Units: ug/L



Reviewer: HillL, 19-Jan-2021 10:40:41
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

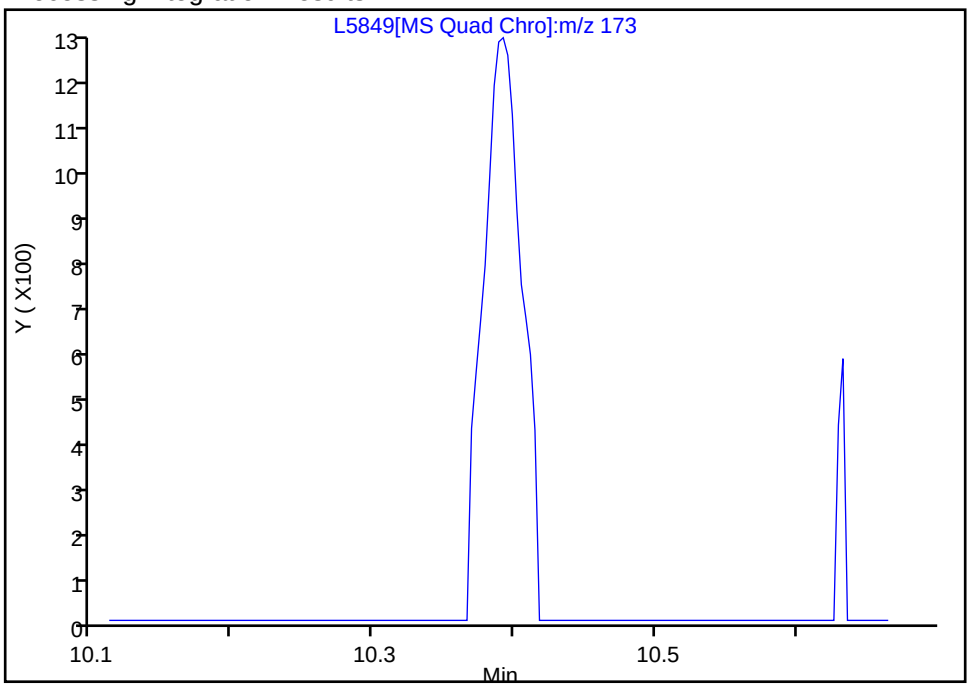
Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5849.D				
Injection Date:	18-Jan-2021 15:08:35	Instrument ID:	HP5977L		
Lims ID:	IC 0.4				
Client ID:					
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

110 Bromoform, CAS: 75-25-2

Signal: 1

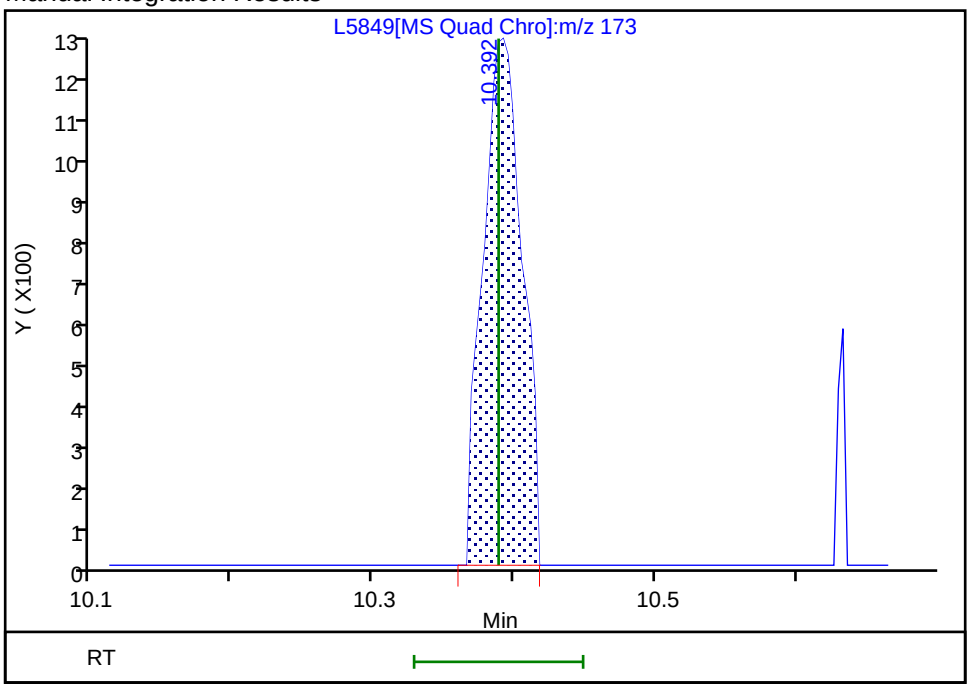
Not Detected
Expected RT: 10.39

Processing Integration Results



Manual Integration Results

RT: 10.39
Area: 2363
Amount: 0.334629
Amount Units: ug/L



Reviewer: HillL, 19-Jan-2021 10:40:52
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

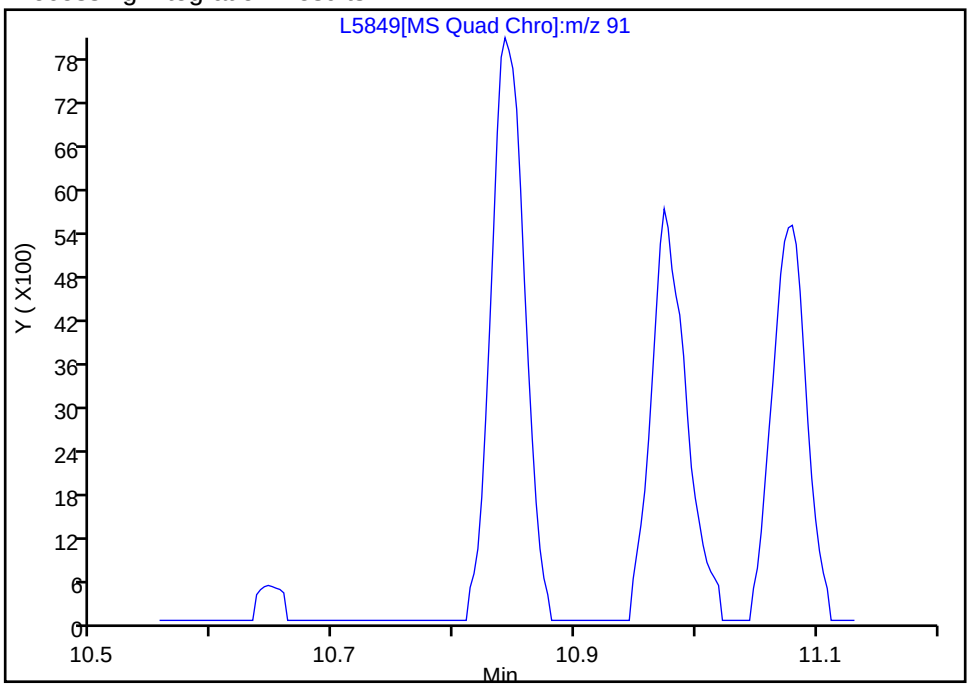
Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5849.D				
Injection Date:	18-Jan-2021 15:08:35	Instrument ID:	HP5977L		
Lims ID:	IC 0.4				
Client ID:					
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

114 N-Propylbenzene, CAS: 103-65-1

Signal: 1

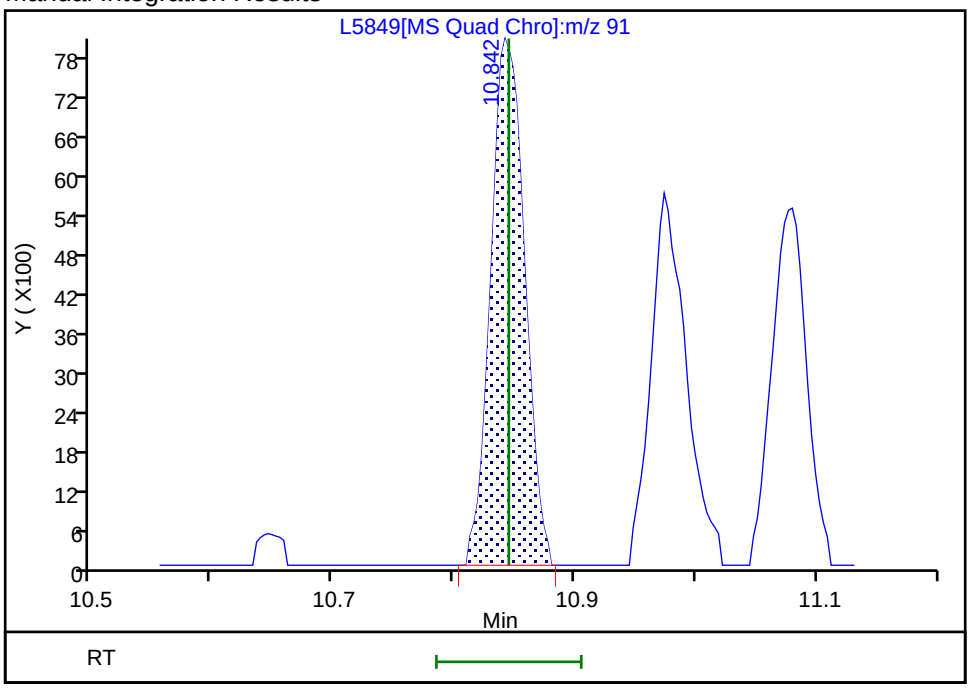
Not Detected
Expected RT: 10.85

Processing Integration Results



Manual Integration Results

RT: 10.84
Area: 15677
Amount: 0.340832
Amount Units: ug/L



Reviewer: HillL, 19-Jan-2021 10:41:01
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

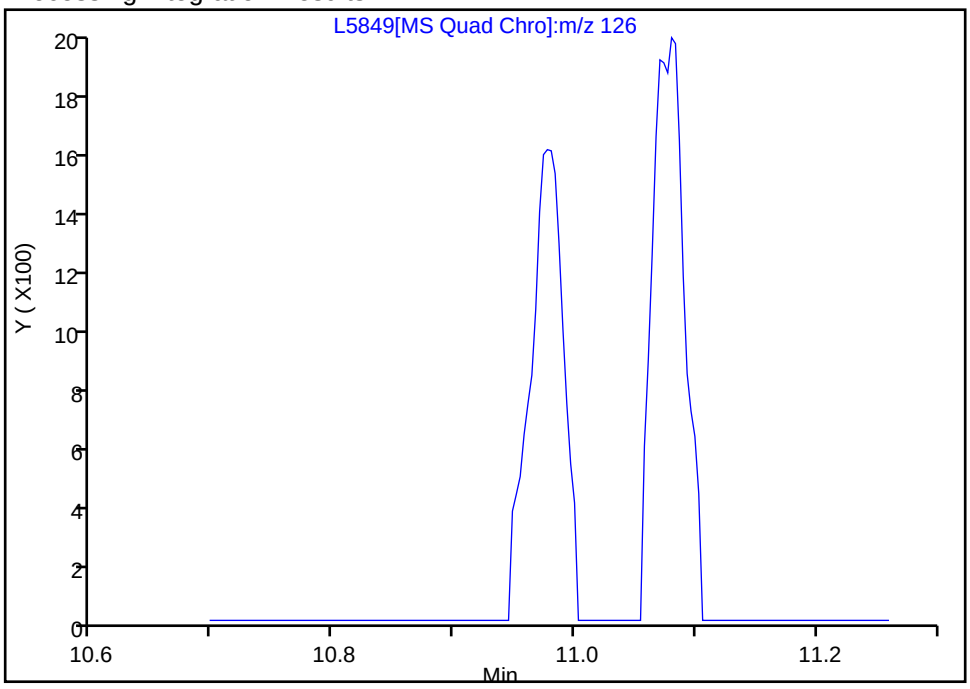
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5849.D
Injection Date: 18-Jan-2021 15:08:35 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

117 2-Chlorotoluene, CAS: 95-49-8

Signal: 1

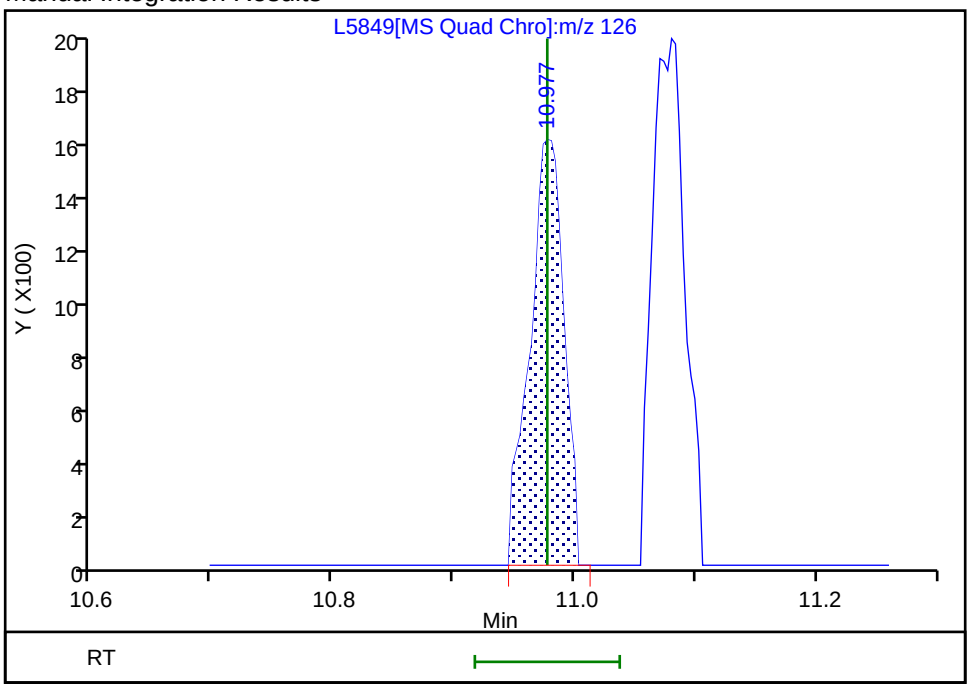
Not Detected
Expected RT: 10.98

Processing Integration Results



Manual Integration Results

RT: 10.98
Area: 3110
Amount: 0.331447
Amount Units: ug/L



Reviewer: HillL, 19-Jan-2021 10:41:17
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

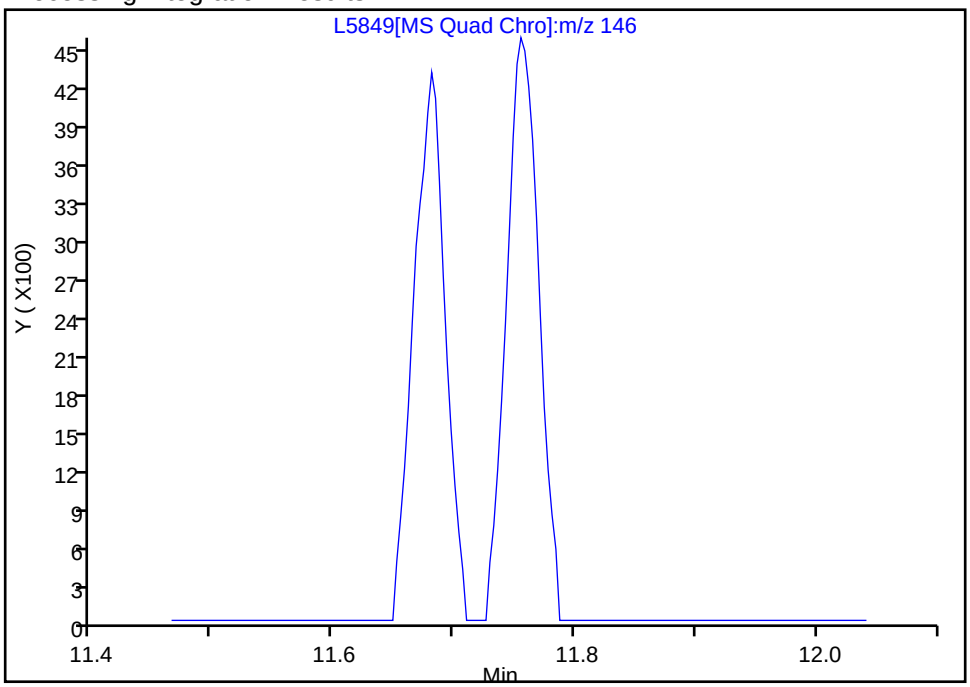
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5849.D
Injection Date: 18-Jan-2021 15:08:35 Instrument ID: HP5977L
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

126 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

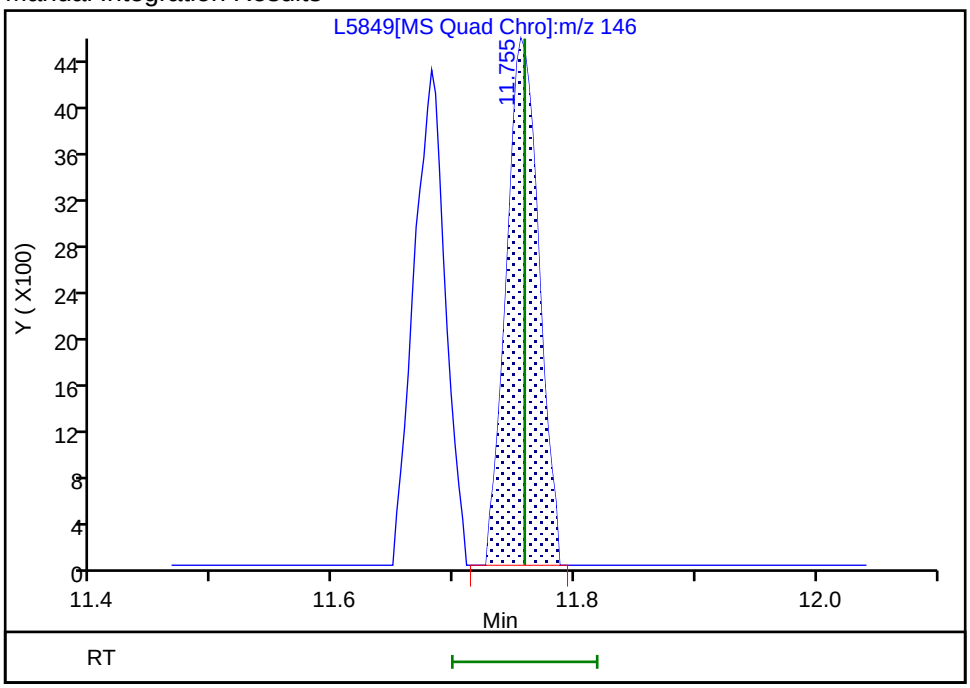
Not Detected
Expected RT: 11.76

Processing Integration Results



Manual Integration Results

RT: 11.76
Area: 8569
Amount: 0.407349
Amount Units: ug/L



Reviewer: HillL, 19-Jan-2021 10:41:31
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5850.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 18-Jan-2021 15:32:58 ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 480-0096150-006
Operator ID: LH Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 19-Jan-2021 11:28:17 Calib Date: 18-Jan-2021 22:35:42
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5867.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1610

First Level Reviewer: HillL Date: 19-Jan-2021 10:43:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.485	6.485	0.000	99	127882	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.443	9.447	-0.004	86	544458	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.736	11.736	0.000	96	309119	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.913	5.913	0.000	94	175664	25.0	24.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.228	6.228	0.000	98	211767	25.0	24.7	
$ 6 Toluene-d8 (Surr)	98	7.948	7.948	0.000	94	657508	25.0	25.4	
$ 7 4-Bromofluorobenzene (Surr)	174	10.652	10.652	0.000	99	241755	25.0	25.4	
10 Dichlorodifluoromethane	85	2.167	2.170	-0.003	96	9362	1.00	0.9617	
13 Chloromethane	50	2.431	2.434	-0.003	94	8912	1.00	1.01	
14 Vinyl chloride	62	2.562	2.562	0.000	75	6783	1.00	0.9746	
15 Butadiene	54	2.569	2.572	-0.003	85	8057	1.00	1.09	
18 Bromomethane	94	2.961	2.958	0.003	86	4642	1.00	0.9336	
19 Chloroethane	64	3.051	3.058	-0.007	93	4056	1.00	0.99	M
20 Dichlorofluoromethane	67	3.286	3.286	0.000	95	11422	1.00	0.9884	
21 Trichlorofluoromethane	101	3.299	3.299	0.000	96	13109	1.00	1.01	
26 Ethyl ether	59	3.585	3.582	0.003	93	5821	1.00	0.9871	
28 Acrolein	56	3.787	3.788	-0.001	72	1567	5.00	3.94	
29 112TCTFE	101	3.804	3.810	-0.006	0	5287	1.00	0.8865	M
30 1,1-Dichloroethene	96	3.836	3.839	-0.003	95	5893	1.00	0.99	
31 Acetone	43	3.935	3.932	0.003	99	13797	5.00	4.95	
33 Iodomethane	142	4.025	4.025	0.000	95	10806	1.00	0.9635	
35 Carbon disulfide	76	4.080	4.083	-0.003	99	18522	1.00	0.9540	
37 3-Chloro-1-propene	41	4.199	4.199	0.000	90	10551	1.00	1.03	
38 Methyl acetate	43	4.212	4.209	0.003	99	13810	2.00	2.23	
39 Methylene Chloride	84	4.334	4.337	-0.003	72	9983	1.00	1.02	
40 2-Methyl-2-propanol	59	4.434	4.431	0.003	93	7735	10.0	9.40	
41 Methyl tert-butyl ether	73	4.517	4.514	0.003	98	20345	1.00	0.9570	
42 trans-1,2-Dichloroethene	96	4.556	4.559	-0.003	95	7263	1.00	1.01	
44 Acrylonitrile	53	4.601	4.598	0.003	99	32456	10.0	10.2	
47 Hexane	57	4.720	4.717	0.003	90	8861	1.00	0.9053	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
49 Vinyl acetate	43	4.958	4.958	0.000	97	30618	2.00	1.90	
50 1,1-Dichloroethane	63	4.958	4.958	0.000	63	12685	1.00	0.99	
56 2,2-Dichloropropane	77	5.456	5.456	0.000	93	9586	1.00	0.9886	
57 2-Butanone (MEK)	43	5.485	5.482	0.003	100	21861	5.00	5.21	
58 cis-1,2-Dichloroethene	96	5.482	5.482	0.000	74	8099	1.00	0.9767	
60 Chlorobromomethane	128	5.707	5.714	-0.007	0	4169	1.00	0.9467	M
61 Tetrahydrofuran	42	5.730	5.730	0.000	88	5214	2.00	2.03	
62 Chloroform	83	5.758	5.759	-0.001	93	15738	1.00	1.05	
64 1,1,1-Trichloroethane	97	5.900	5.903	-0.003	95	12859	1.00	0.9617	
65 Cyclohexane	56	5.926	5.923	0.003	89	11762	1.00	0.9571	
66 Carbon tetrachloride	117	6.045	6.038	0.007	0	11743	1.00	0.9357	M
67 1,1-Dichloropropene	75	6.038	6.038	0.000	91	10121	1.00	0.99	
69 Isobutyl alcohol	43	6.135	6.135	0.000	91	8118	25.0	23.3	M
70 Benzene	78	6.254	6.244	0.010	98	28005	1.00	0.9750	
72 1,2-Dichloroethane	62	6.299	6.299	0.000	96	11518	1.00	0.9419	
73 n-Heptane	43	6.337	6.337	0.000	92	9880	1.00	1.01	
75 Trichloroethene	95	6.810	6.813	-0.003	96	7694	1.00	0.9358	
76 Methylcyclohexane	83	6.942	6.945	-0.003	92	11678	1.00	1.00	
77 1,2-Dichloropropane	63	7.061	7.058	0.003	0	6688	1.00	0.9273	M
81 1,4-Dioxane	88	7.164	7.164	0.000	62	359	20.0	20.4	
82 Dibromomethane	93	7.202	7.199	0.003	86	4641	1.00	0.9014	
83 Dichlorobromomethane	83	7.321	7.318	0.003	96	10250	1.00	0.9305	
84 2-Chloroethyl vinyl ether	63	7.540	7.540	0.000	90	4868	1.00	0.9665	
85 cis-1,3-Dichloropropene	75	7.717	7.717	0.000	94	12320	1.00	0.9768	
87 4-Methyl-2-pentanone (MIBK)	43	7.823	7.820	0.003	95	41894	5.00	4.94	
88 Toluene	92	8.016	8.016	0.000	96	19749	1.00	0.99	
90 Ethyl methacrylate	69	8.244	8.244	0.000	90	8070	1.00	0.8382	
91 trans-1,3-Dichloropropene	75	8.257	8.257	0.000	93	11124	1.00	0.9134	
93 1,1,2-Trichloroethane	83	8.463	8.463	0.000	90	5469	1.00	0.9656	
94 Tetrachloroethene	166	8.556	8.553	0.003	93	8937	1.00	0.9589	
95 1,3-Dichloropropane	76	8.636	8.636	0.000	94	11776	1.00	0.99	
96 2-Hexanone	43	8.643	8.643	0.000	96	30218	5.00	4.79	
98 Chlorodibromomethane	129	8.881	8.884	-0.003	0	8919	1.00	0.9812	M
101 Ethylene Dibromide	107	9.022	9.022	0.000	94	7929	1.00	1.03	
103 Chlorobenzene	112	9.479	9.475	0.004	96	24133	1.00	1.05	
104 Ethylbenzene	91	9.533	9.533	0.000	97	38597	1.00	1.00	
105 1,1,1,2-Tetrachloroethane	131	9.553	9.556	-0.003	89	8553	1.00	0.9720	
106 m-Xylene & p-Xylene	106	9.649	9.649	0.000	98	14940	1.00	0.9802	
107 o-Xylene	106	10.090	10.090	0.000	97	14284	1.00	0.9792	
109 Styrene	104	10.115	10.112	0.003	92	23675	1.00	0.9423	
110 Bromoform	173	10.392	10.389	0.003	95	6293	1.00	0.9444	
111 Isopropylbenzene	105	10.437	10.437	0.000	95	38260	1.00	0.9731	
112 1,1,2,2-Tetrachloroethane	83	10.816	10.813	0.003	84	9525	1.00	0.9444	
113 Bromobenzene	156	10.823	10.823	0.000	90	10403	1.00	1.00	
114 N-Propylbenzene	91	10.845	10.845	0.000	98	44743	1.00	0.9835	
115 trans-1,4-Dichloro-2-butene	53	10.858	10.855	0.003	57	1503	1.00	1.20	
116 1,2,3-Trichloropropane	110	10.868	10.868	0.000	80	3588	1.00	0.9812	
117 2-Chlorotoluene	126	10.977	10.977	0.000	97	9243	1.00	1.00	
118 1,3,5-Trimethylbenzene	105	11.000	11.000	0.000	93	32374	1.00	0.9508	
119 4-Chlorotoluene	91	11.080	11.077	0.003	98	29140	1.00	0.9887	
120 tert-Butylbenzene	134	11.318	11.315	0.003	91	6632	1.00	0.9280	
121 1,2,4-Trimethylbenzene	105	11.366	11.366	0.000	96	33262	1.00	0.9511	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	11.514	11.514	0.000	94	40407	1.00	0.9771	
123 4-Isopropyltoluene	119	11.630	11.630	0.000	96	36490	1.00	0.9655	
124 1,3-Dichlorobenzene	146	11.681	11.678	0.003	96	19278	1.00	0.9567	
126 1,4-Dichlorobenzene	146	11.755	11.758	-0.003	94	20499	1.00	0.9852	
127 n-Butylbenzene	91	11.996	11.996	0.000	98	30561	1.00	0.9424	
128 1,2-Dichlorobenzene	146	12.099	12.099	0.000	94	18421	1.00	0.9619	
129 1,2-Dibromo-3-Chloropropane	75	12.778	12.774	0.004	78	2387	1.00	1.00	
130 1,2,4-Trichlorobenzene	180	13.443	13.443	0.000	92	14636	1.00	0.99	
131 Hexachlorobutadiene	225	13.533	13.530	0.003	94	7409	1.00	1.01	
132 Naphthalene	128	13.700	13.697	0.003	0	35617	1.00	0.9837	M
133 1,2,3-Trichlorobenzene	180	13.922	13.922	0.000	95	13959	1.00	1.02	
S 143 Xylenes, Total	1				0			1.96	
S 142 Total BTEX	1				0			4.92	
S 144 1,3-Dichloropropene, Total	1				0			1.89	
S 141 1,2-Dichloroethene, Total	1				0			1.99	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00199	Amount Added:	1.00	Units: uL	
GAS CORP mix_00437	Amount Added:	1.00	Units: uL	
L_8260_IS_00023	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_SURR_00022	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 19-Jan-2021 11:28:17 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5850.D

Injection Date: 18-Jan-2021 15:32:58 Instrument ID: HP5977L

Lims ID: IC

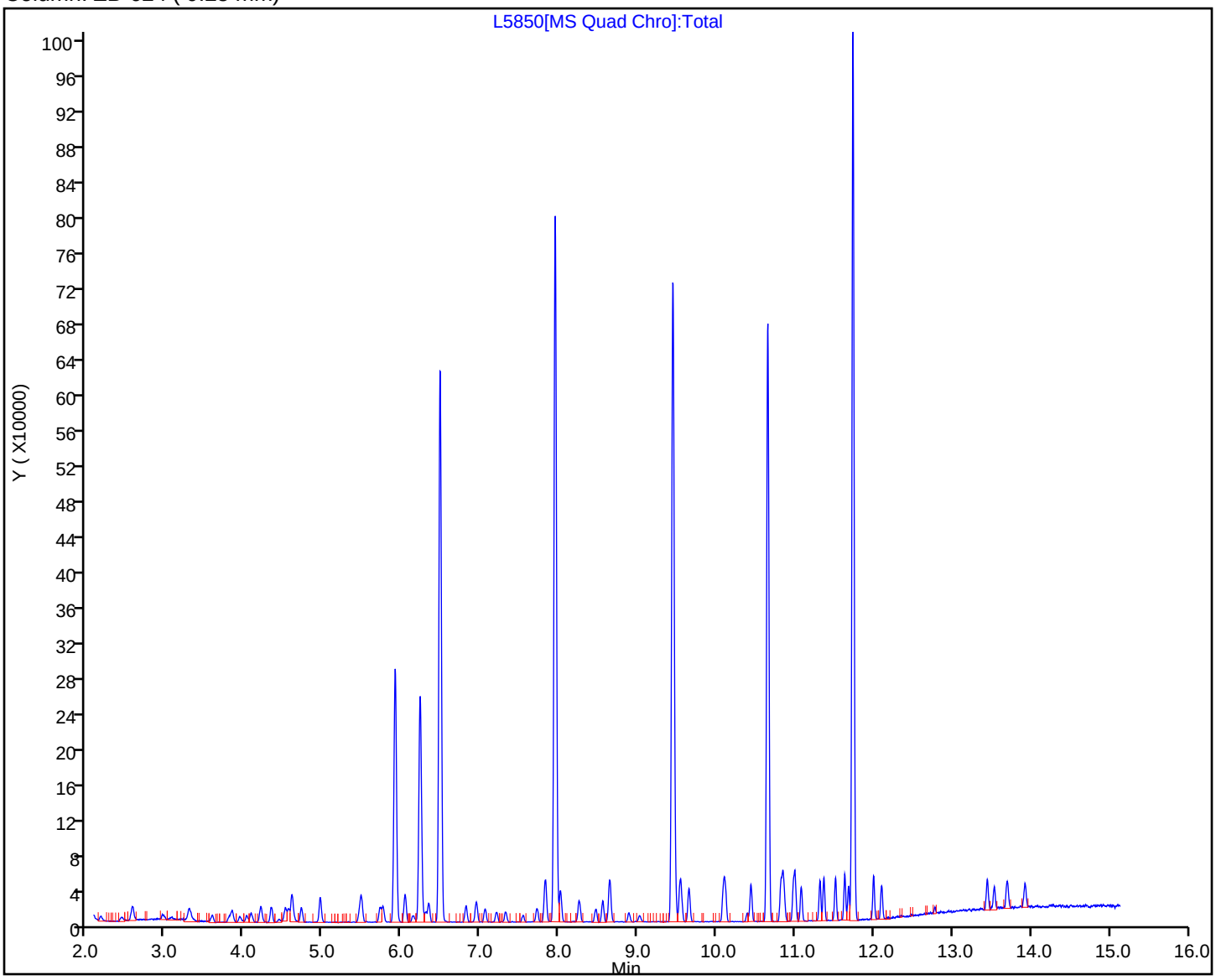
Client ID:

Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 6

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

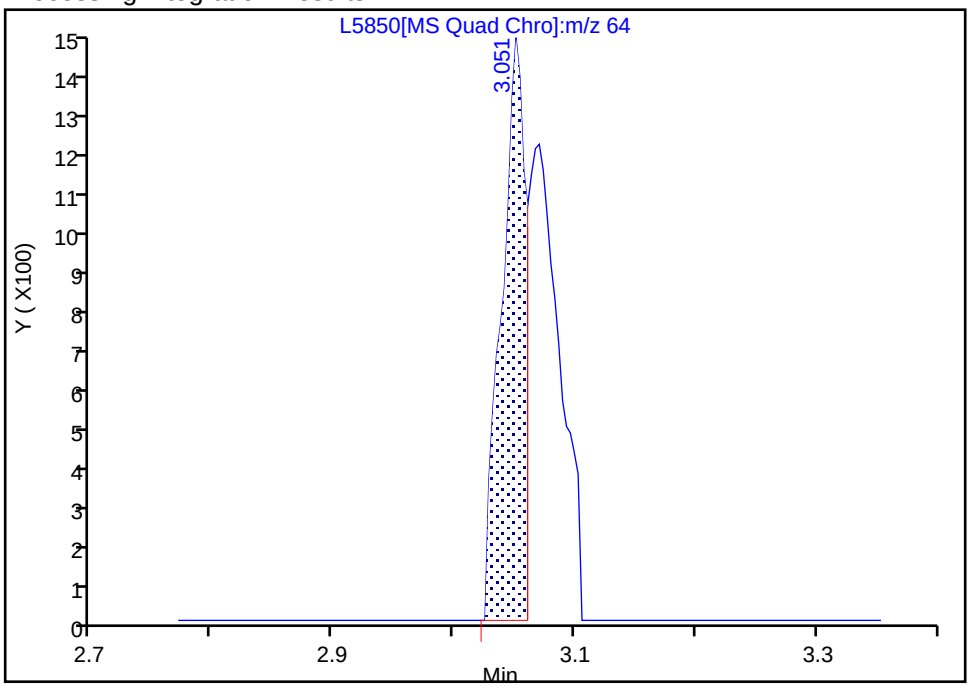
Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5850.D				
Injection Date:	18-Jan-2021 15:32:58	Instrument ID:	HP5977L		
Lims ID:	IC				
Client ID:					
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

19 Chloroethane, CAS: 75-00-3

Signal: 1

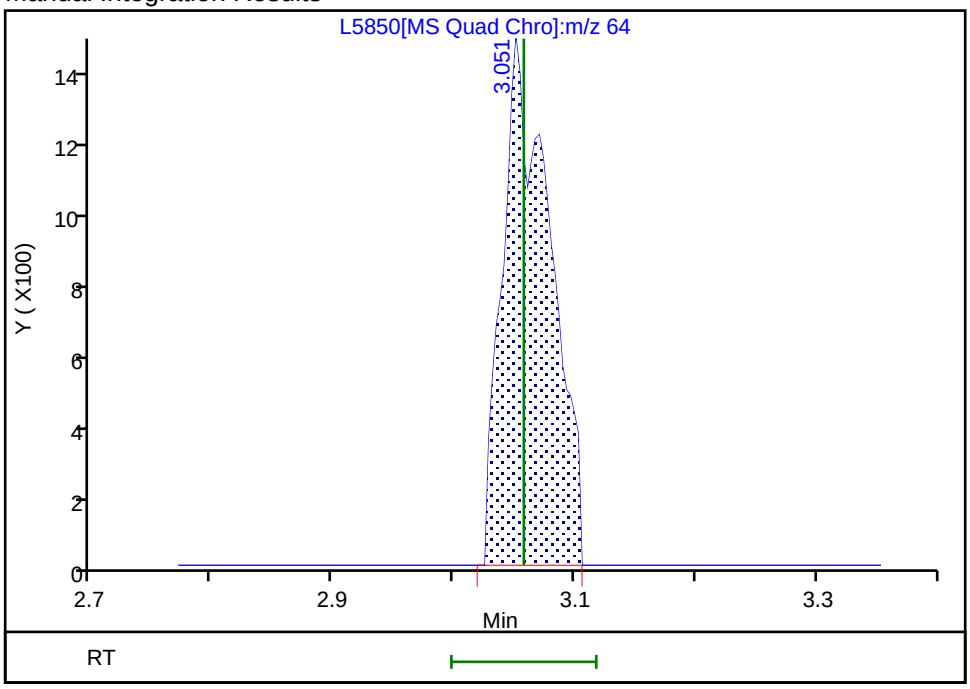
Processing Integration Results

RT: 3.05
Area: 2040
Amount: 0.676295
Amount Units: ug/L



Manual Integration Results

RT: 3.05
Area: 4056
Amount: 0.993930
Amount Units: ug/L



Reviewer: HillL, 19-Jan-2021 10:42:09

Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

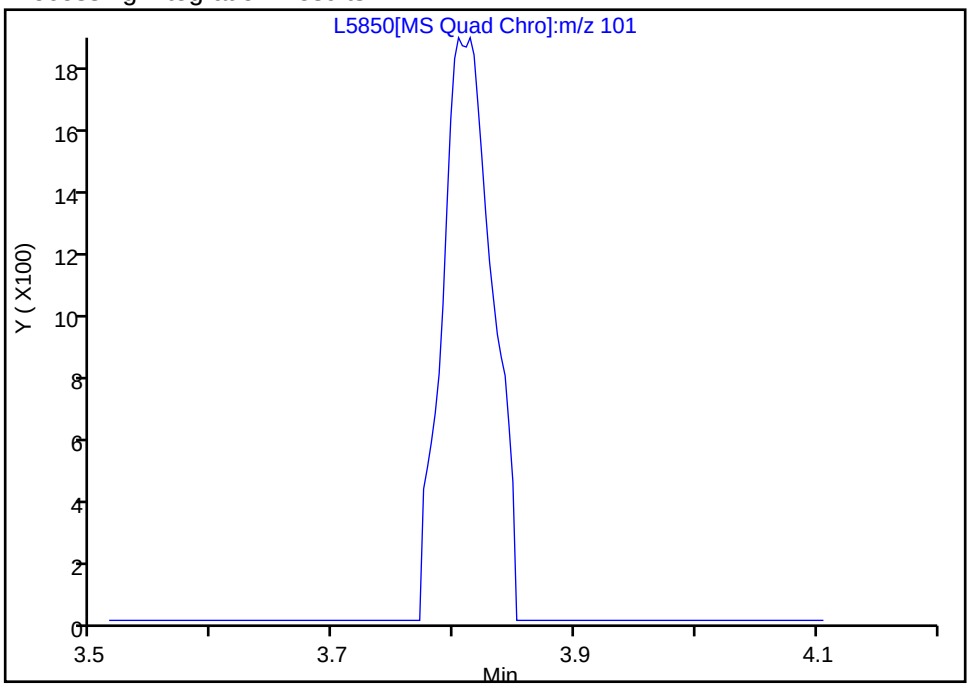
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5850.D
Injection Date: 18-Jan-2021 15:32:58 Instrument ID: HP5977L
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

29 112TCTFE, CAS: 76-13-1

Signal: 1

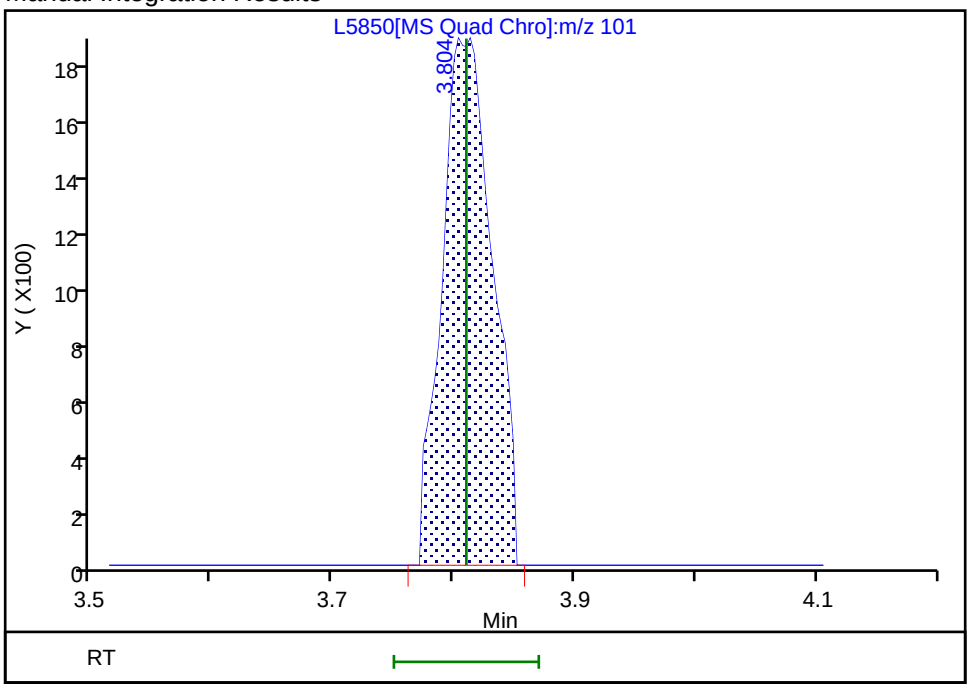
Not Detected
Expected RT: 3.81

Processing Integration Results



Manual Integration Results

RT: 3.80
Area: 5287
Amount: 0.886496
Amount Units: ug/L



Reviewer: HillL, 19-Jan-2021 10:42:17
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

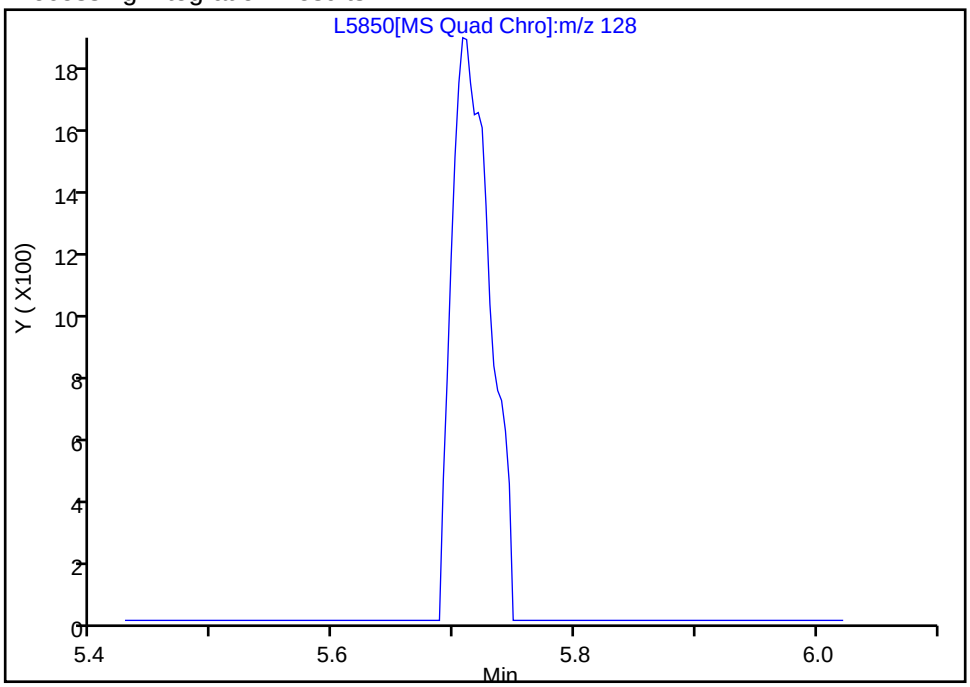
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5850.D
Injection Date: 18-Jan-2021 15:32:58 Instrument ID: HP5977L
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

60 Chlorobromomethane, CAS: 74-97-5

Signal: 1

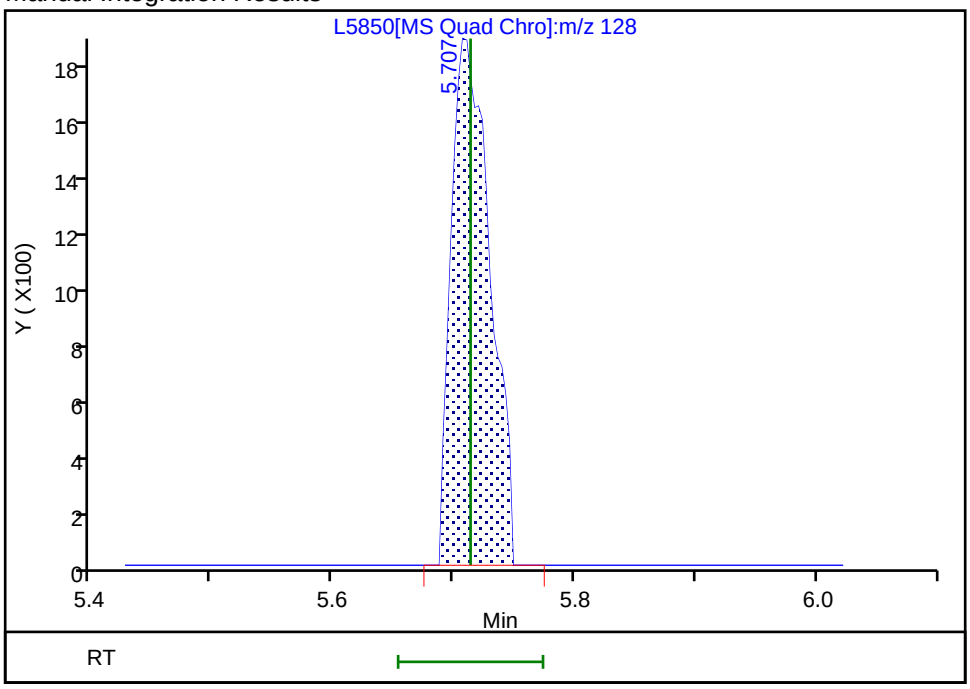
Not Detected
Expected RT: 5.71

Processing Integration Results



Manual Integration Results

RT: 5.71
Area: 4169
Amount: 0.946691
Amount Units: ug/L



Reviewer: HillL, 19-Jan-2021 10:42:33
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

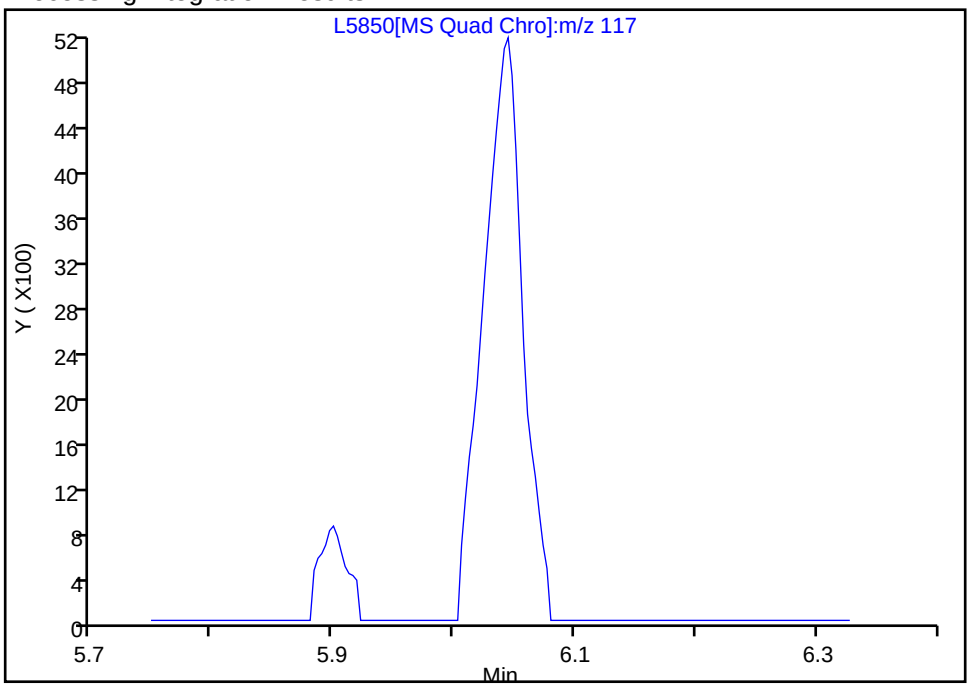
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5850.D
Injection Date: 18-Jan-2021 15:32:58 Instrument ID: HP5977L
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

66 Carbon tetrachloride, CAS: 56-23-5

Signal: 1

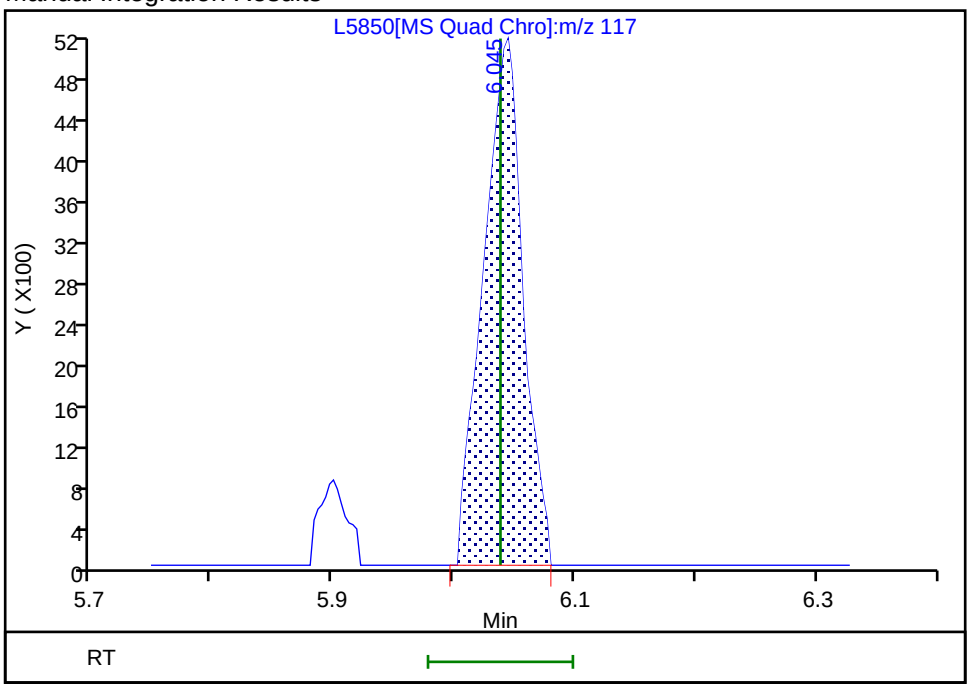
Not Detected
Expected RT: 6.04

Processing Integration Results



Manual Integration Results

RT: 6.04
Area: 11743
Amount: 0.935744
Amount Units: ug/L



Reviewer: HillL, 19-Jan-2021 10:42:41
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

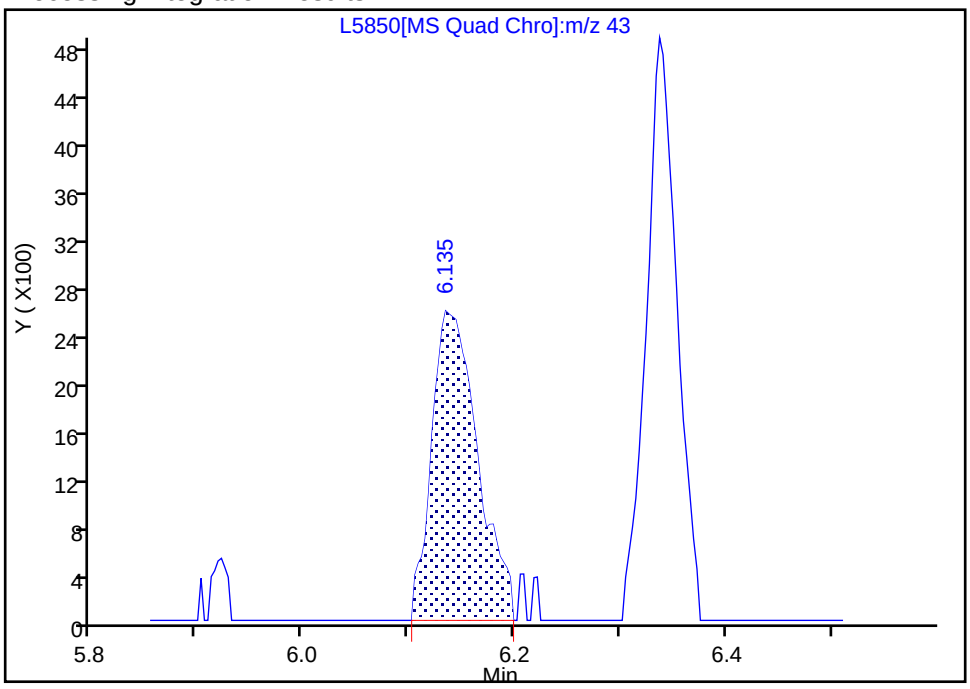
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5850.D
Injection Date: 18-Jan-2021 15:32:58 Instrument ID: HP5977L
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

69 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

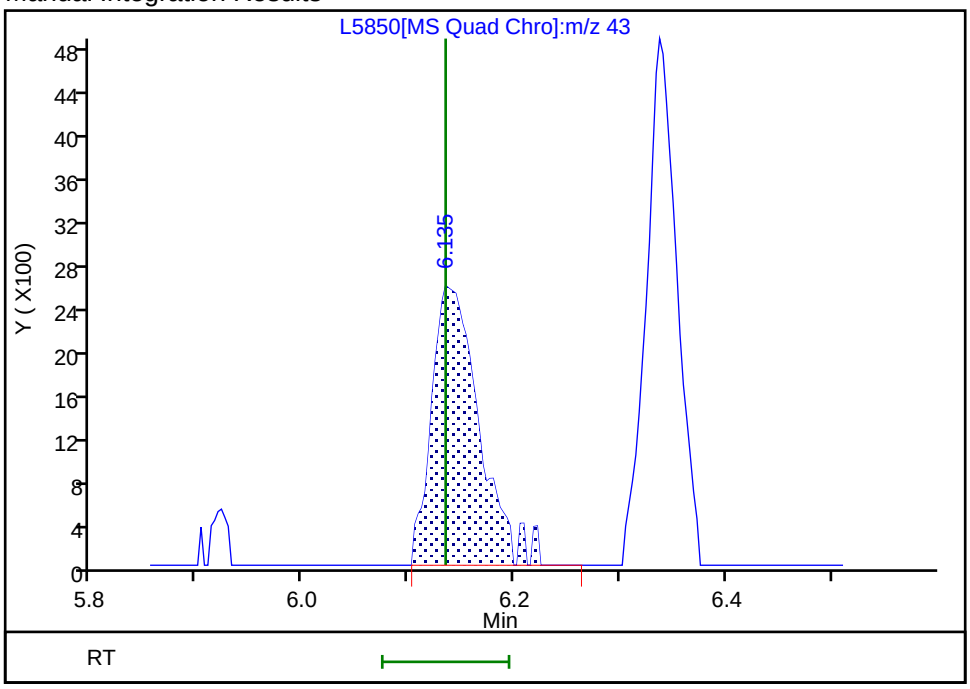
Processing Integration Results

RT: 6.13
Area: 7829
Amount: 22.589299
Amount Units: ug/L



Manual Integration Results

RT: 6.13
Area: 8118
Amount: 23.325908
Amount Units: ug/L



Reviewer: HillL, 19-Jan-2021 10:42:59
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

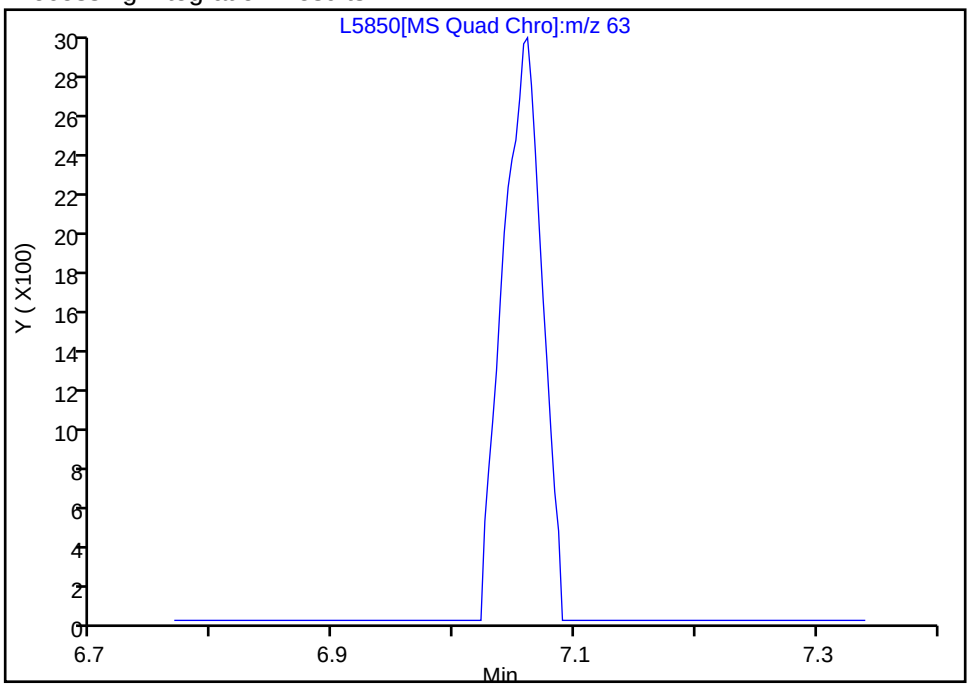
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5850.D
Injection Date: 18-Jan-2021 15:32:58 Instrument ID: HP5977L
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

77 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

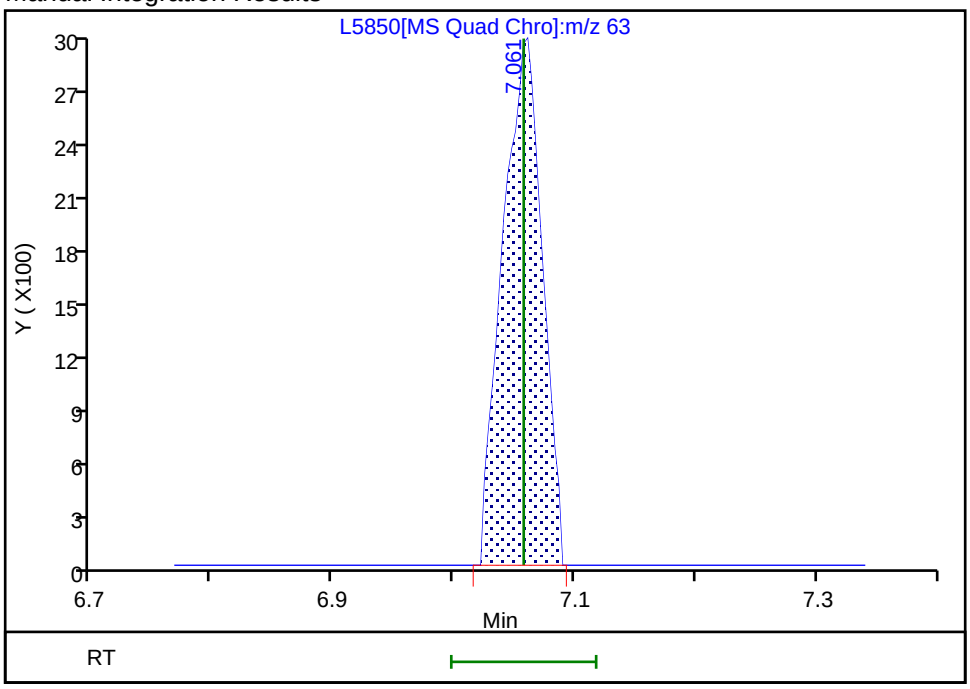
Not Detected
Expected RT: 7.06

Processing Integration Results



Manual Integration Results

RT: 7.06
Area: 6688
Amount: 0.927277
Amount Units: ug/L



Reviewer: HillL, 19-Jan-2021 10:43:09
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

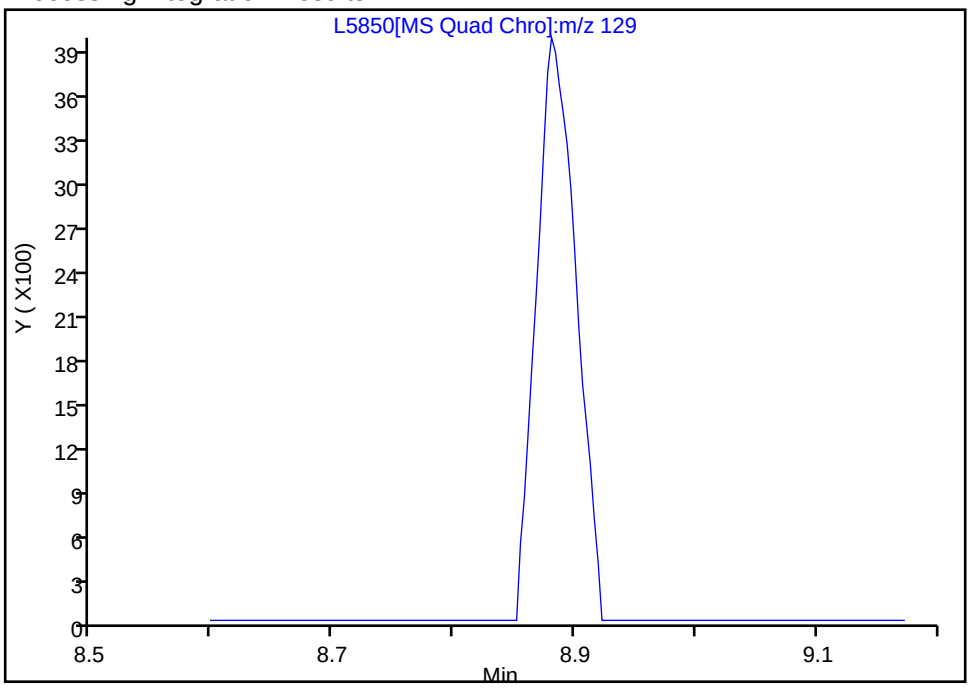
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5850.D
Injection Date: 18-Jan-2021 15:32:58 Instrument ID: HP5977L
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

98 Chlorodibromomethane, CAS: 124-48-1

Signal: 1

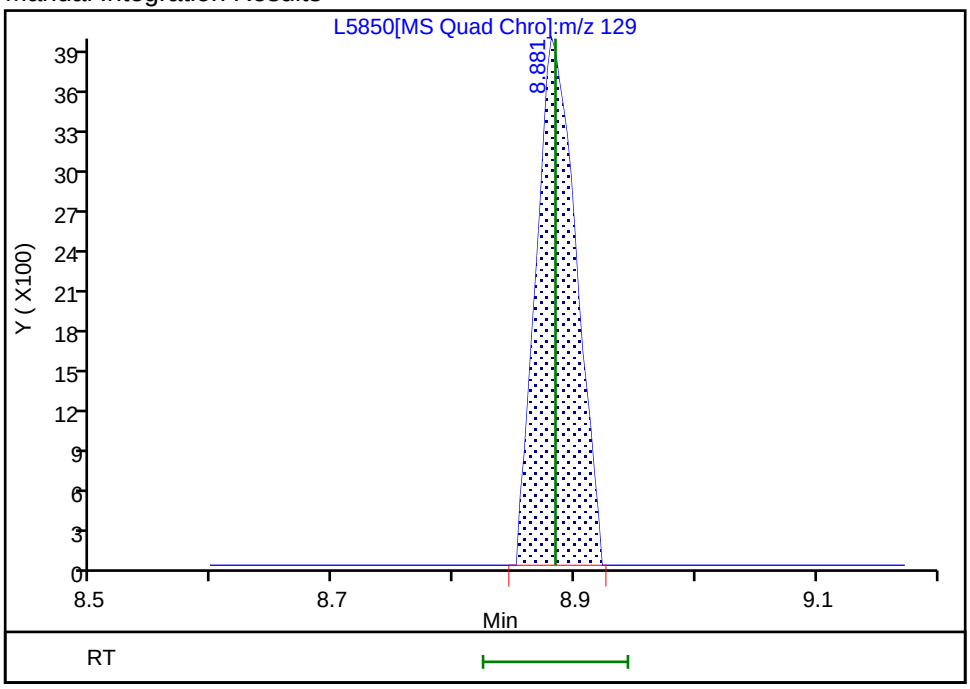
Not Detected
Expected RT: 8.88

Processing Integration Results



Manual Integration Results

RT: 8.88
Area: 8919
Amount: 0.981198
Amount Units: ug/L



Reviewer: HillL, 19-Jan-2021 10:43:23
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

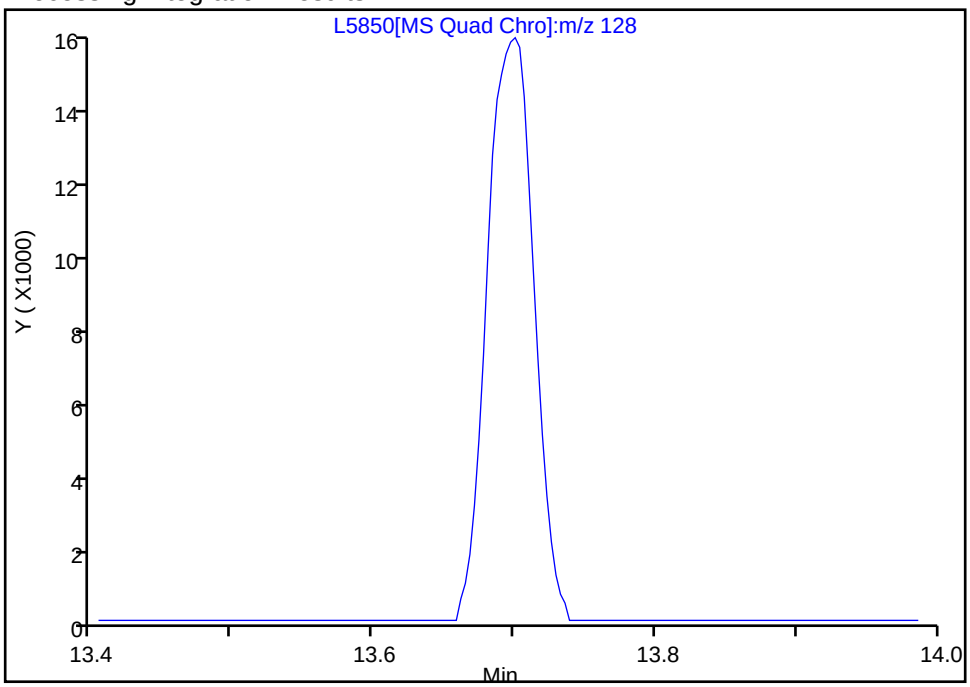
Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5850.D				
Injection Date:	18-Jan-2021 15:32:58	Instrument ID:	HP5977L		
Lims ID:	IC				
Client ID:					
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

132 Naphthalene, CAS: 91-20-3

Signal: 1

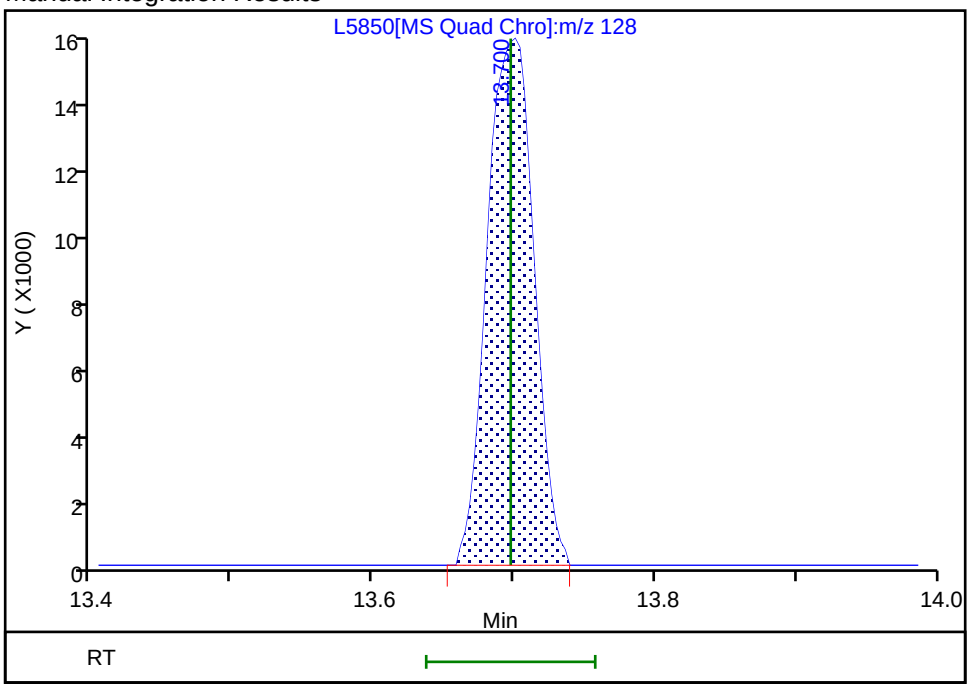
Not Detected
Expected RT: 13.70

Processing Integration Results



Manual Integration Results

RT: 13.70
Area: 35617
Amount: 0.983669
Amount Units: ug/L



Reviewer: HillL, 19-Jan-2021 10:43:43
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5851.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 18-Jan-2021 15:57:49 ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 2
Misc. Info.: 480-0096150-007
Operator ID: LH Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 19-Jan-2021 11:28:24 Calib Date: 18-Jan-2021 22:35:42
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5867.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1610

First Level Reviewer: HillL Date: 19-Jan-2021 10:45:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.482	6.485	-0.003	99	125436	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.443	9.447	-0.004	87	547126	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.736	11.736	0.000	96	302951	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.913	5.913	0.000	95	174969	25.0	25.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.228	6.228	0.000	98	205241	25.0	24.4	
$ 6 Toluene-d8 (Surr)	98	7.948	7.948	0.000	94	646262	25.0	24.9	
$ 7 4-Bromofluorobenzene (Surr)	174	10.652	10.652	0.000	98	226479	25.0	23.7	
10 Dichlorodifluoromethane	85	2.170	2.170	0.000	98	21365	2.00	2.24	
13 Chloromethane	50	2.434	2.434	0.000	97	18622	2.00	2.16	
14 Vinyl chloride	62	2.566	2.562	0.004	95	14958	2.00	2.19	
15 Butadiene	54	2.575	2.572	0.003	90	16366	2.00	2.25	
18 Bromomethane	94	2.964	2.958	0.006	0	10804	2.00	2.22	M
19 Chloroethane	64	3.054	3.058	-0.004	98	8881	2.00	2.22	
20 Dichlorofluoromethane	67	3.286	3.286	0.000	95	24163	2.00	2.13	
21 Trichlorofluoromethane	101	3.305	3.299	0.006	97	28102	2.00	2.21	
26 Ethyl ether	59	3.585	3.582	0.003	93	11843	2.00	2.05	
28 Acrolein	56	3.784	3.788	-0.004	98	4092	10.0	10.5	
29 112TCTFE	101	3.813	3.810	0.003	88	11069	2.00	1.89	
30 1,1-Dichloroethene	96	3.842	3.839	0.003	95	11430	2.00	1.96	
31 Acetone	43	3.935	3.932	0.003	99	27650	10.0	10.1	
33 Iodomethane	142	4.029	4.025	0.004	97	22121	2.00	2.01	
35 Carbon disulfide	76	4.083	4.083	0.000	99	39790	2.00	2.09	
37 3-Chloro-1-propene	41	4.199	4.199	0.000	89	19365	2.00	1.93	
38 Methyl acetate	43	4.212	4.209	0.003	97	24328	4.00	4.00	
39 Methylene Chloride	84	4.340	4.337	0.003	94	16461	2.00	1.98	
40 2-Methyl-2-propanol	59	4.437	4.431	0.006	95	14659	20.0	18.2	
41 Methyl tert-butyl ether	73	4.514	4.514	0.000	96	40713	2.00	1.95	
42 trans-1,2-Dichloroethene	96	4.556	4.559	-0.003	96	14096	2.00	2.01	
44 Acrylonitrile	53	4.598	4.598	0.000	98	63046	20.0	20.2	
47 Hexane	57	4.720	4.717	0.003	92	19542	2.00	2.04	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
49 Vinyl acetate	43	4.958	4.958	0.000	98	61255	4.00	3.88	
50 1,1-Dichloroethane	63	4.958	4.958	0.000	62	25531	2.00	2.04	
56 2,2-Dichloropropane	77	5.456	5.456	0.000	0	19610	2.00	2.06	M
57 2-Butanone (MEK)	43	5.485	5.482	0.003	100	41488	10.0	10.1	
58 cis-1,2-Dichloroethene	96	5.482	5.482	0.000	83	16305	2.00	2.00	
60 Chlorobromomethane	128	5.713	5.714	-0.001	92	8675	2.00	2.01	
61 Tetrahydrofuran	42	5.729	5.730	-0.001	82	9393	4.00	3.73	
62 Chloroform	83	5.758	5.759	-0.001	92	30601	2.00	2.08	
64 1,1,1-Trichloroethane	97	5.903	5.903	0.000	96	27001	2.00	2.06	
65 Cyclohexane	56	5.919	5.923	-0.004	91	23764	2.00	1.97	
66 Carbon tetrachloride	117	6.035	6.038	-0.003	95	24749	2.00	2.01	
67 1,1-Dichloropropene	75	6.038	6.038	0.000	92	20913	2.00	2.09	
69 Isobutyl alcohol	43	6.141	6.135	0.006	94	17136	50.0	50.2	
70 Benzene	78	6.247	6.244	0.003	96	57956	2.00	2.06	
72 1,2-Dichloroethane	62	6.295	6.299	-0.004	98	24398	2.00	2.03	
73 n-Heptane	43	6.340	6.337	0.003	92	19575	2.00	2.04	
75 Trichloroethene	95	6.813	6.813	0.000	96	16670	2.00	2.07	
76 Methylcyclohexane	83	6.945	6.945	0.000	93	23203	2.00	2.02	
77 1,2-Dichloropropane	63	7.054	7.058	-0.004	92	14775	2.00	2.09	
81 1,4-Dioxane	88	7.167	7.164	0.003	85	1569	40.0	38.6	
82 Dibromomethane	93	7.202	7.199	0.003	93	10198	2.00	2.02	
83 Dichlorobromomethane	83	7.321	7.318	0.003	97	21630	2.00	2.00	
84 2-Chloroethyl vinyl ether	63	7.540	7.540	0.000	93	9309	2.00	1.88	
85 cis-1,3-Dichloropropene	75	7.717	7.717	0.000	93	24300	2.00	1.96	
87 4-Methyl-2-pentanone (MIBK)	43	7.823	7.820	0.003	95	85259	10.0	10.0	
88 Toluene	92	8.012	8.016	-0.004	97	38266	2.00	1.92	
90 Ethyl methacrylate	69	8.244	8.244	0.000	91	17840	2.00	1.84	
91 trans-1,3-Dichloropropene	75	8.260	8.257	0.003	97	23153	2.00	1.89	
93 1,1,2-Trichloroethane	83	8.463	8.463	0.000	91	11402	2.00	2.00	
94 Tetrachloroethene	166	8.556	8.553	0.003	96	18964	2.00	2.02	
95 1,3-Dichloropropane	76	8.636	8.636	0.000	96	23545	2.00	1.97	
96 2-Hexanone	43	8.643	8.643	0.000	96	62754	10.0	9.90	
98 Chlorodibromomethane	129	8.884	8.884	0.000	92	17187	2.00	1.88	
101 Ethylene Dibromide	107	9.019	9.022	-0.003	94	15486	2.00	2.01	
103 Chlorobenzene	112	9.475	9.475	0.000	95	45736	2.00	1.98	
104 Ethylbenzene	91	9.533	9.533	0.000	98	79063	2.00	2.03	
105 1,1,1,2-Tetrachloroethane	131	9.553	9.556	-0.003	92	18289	2.00	2.07	
106 m-Xylene & p-Xylene	106	9.649	9.649	0.000	98	30731	2.00	2.01	
107 o-Xylene	106	10.086	10.090	-0.004	96	28935	2.00	1.97	
109 Styrene	104	10.112	10.112	0.000	95	49616	2.00	1.97	
110 Bromoform	173	10.392	10.389	0.003	96	12247	2.00	1.83	
111 Isopropylbenzene	105	10.437	10.437	0.000	96	78829	2.00	2.05	
112 1,1,2,2-Tetrachloroethane	83	10.813	10.813	0.000	96	21436	2.00	2.17	
113 Bromobenzene	156	10.823	10.823	0.000	93	20159	2.00	1.98	
114 N-Propylbenzene	91	10.845	10.845	0.000	98	92128	2.00	2.07	
115 trans-1,4-Dichloro-2-butene	53	10.855	10.855	0.000	68	4293	2.00	2.02	
116 1,2,3-Trichloropropane	110	10.871	10.868	0.003	81	7505	2.00	2.09	
117 2-Chlorotoluene	126	10.977	10.977	0.000	97	18651	2.00	2.05	
118 1,3,5-Trimethylbenzene	105	11.003	11.000	0.003	94	66692	2.00	2.00	
119 4-Chlorotoluene	91	11.080	11.077	0.003	98	59571	2.00	2.06	
120 tert-Butylbenzene	134	11.315	11.315	0.000	92	13728	2.00	1.96	
121 1,2,4-Trimethylbenzene	105	11.366	11.366	0.000	97	69499	2.00	2.03	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	11.514	11.514	0.000	94	82170	2.00	2.03	
123 4-Isopropyltoluene	119	11.630	11.630	0.000	97	74637	2.00	2.02	
124 1,3-Dichlorobenzene	146	11.678	11.678	0.000	97	40045	2.00	2.03	
126 1,4-Dichlorobenzene	146	11.758	11.758	0.000	95	40525	2.00	1.99	
127 n-Butylbenzene	91	11.999	11.996	0.003	98	62378	2.00	1.96	
128 1,2-Dichlorobenzene	146	12.099	12.099	0.000	97	37213	2.00	1.98	
129 1,2-Dibromo-3-Chloropropane	75	12.771	12.774	-0.003	85	4877	2.00	2.07	
130 1,2,4-Trichlorobenzene	180	13.446	13.443	0.003	95	27836	2.00	1.92	
131 Hexachlorobutadiene	225	13.533	13.530	0.003	96	14732	2.00	2.04	
132 Naphthalene	128	13.697	13.697	0.000	98	67853	2.00	1.91	
133 1,2,3-Trichlorobenzene	180	13.925	13.922	0.003	94	25802	2.00	1.92	
S 143 Xylenes, Total	1				0			3.98	
S 142 Total BTEX	1				0			9.99	
S 144 1,3-Dichloropropene, Total	1				0			3.86	
S 141 1,2-Dichloroethene, Total	1				0			4.01	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00199	Amount Added:	2.00	Units: uL	
GAS CORP mix_00437	Amount Added:	2.00	Units: uL	
L_8260_IS_00023	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_SURR_00022	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 19-Jan-2021 11:28:25 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5851.D

Injection Date: 18-Jan-2021 15:57:49 Instrument ID: HP5977L

Lims ID: IC 2

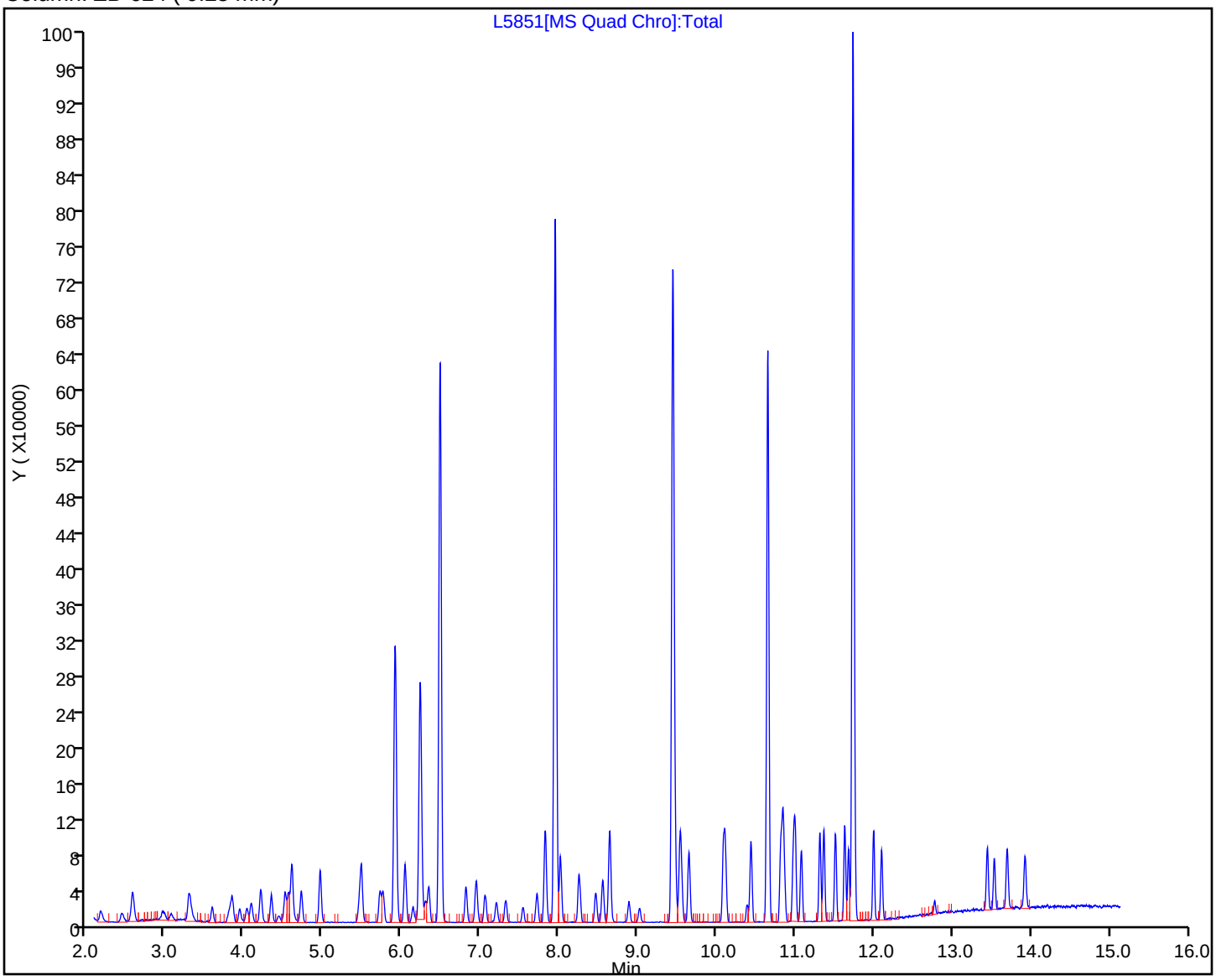
Client ID:

Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 7

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

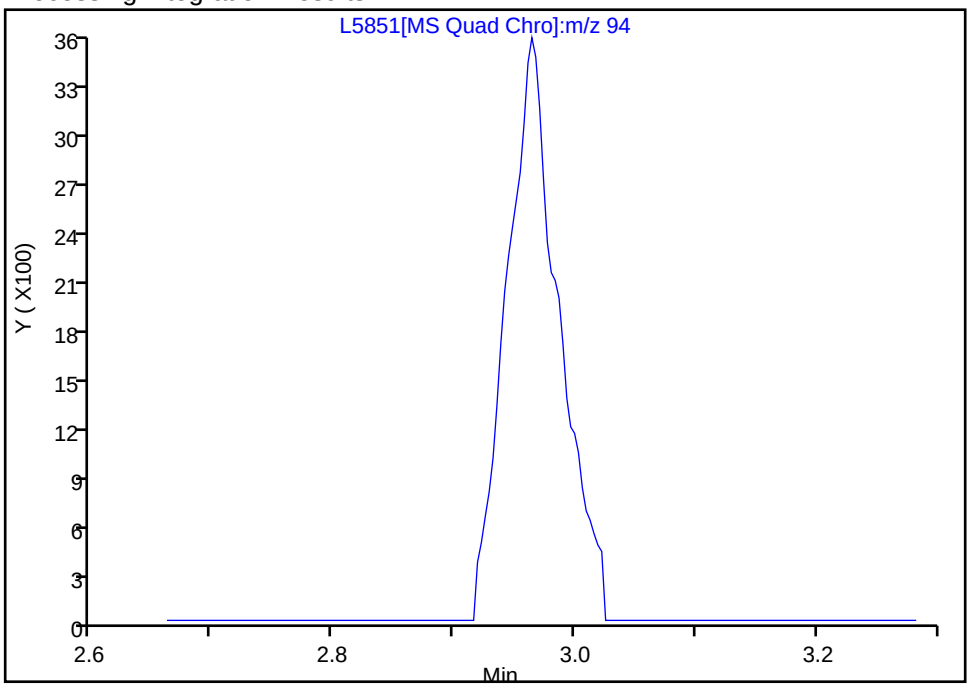
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5851.D
Injection Date: 18-Jan-2021 15:57:49 Instrument ID: HP5977L
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

18 Bromomethane, CAS: 74-83-9

Signal: 1

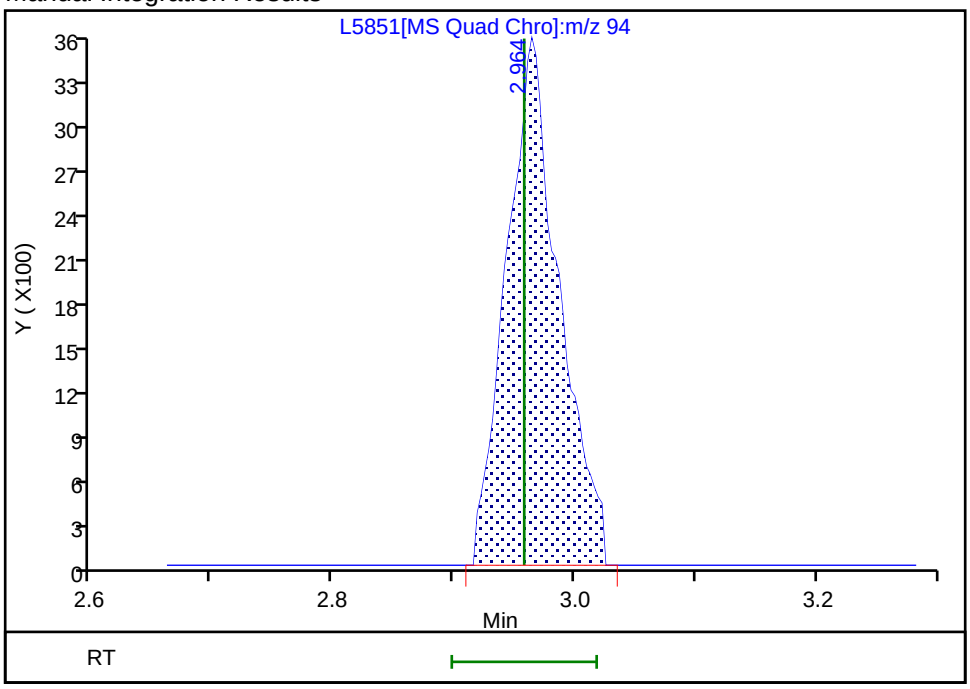
Not Detected
Expected RT: 2.96

Processing Integration Results



Manual Integration Results

RT: 2.96
Area: 10804
Amount: 2.215277
Amount Units: ug/L



Reviewer: HillL, 19-Jan-2021 10:44:19
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

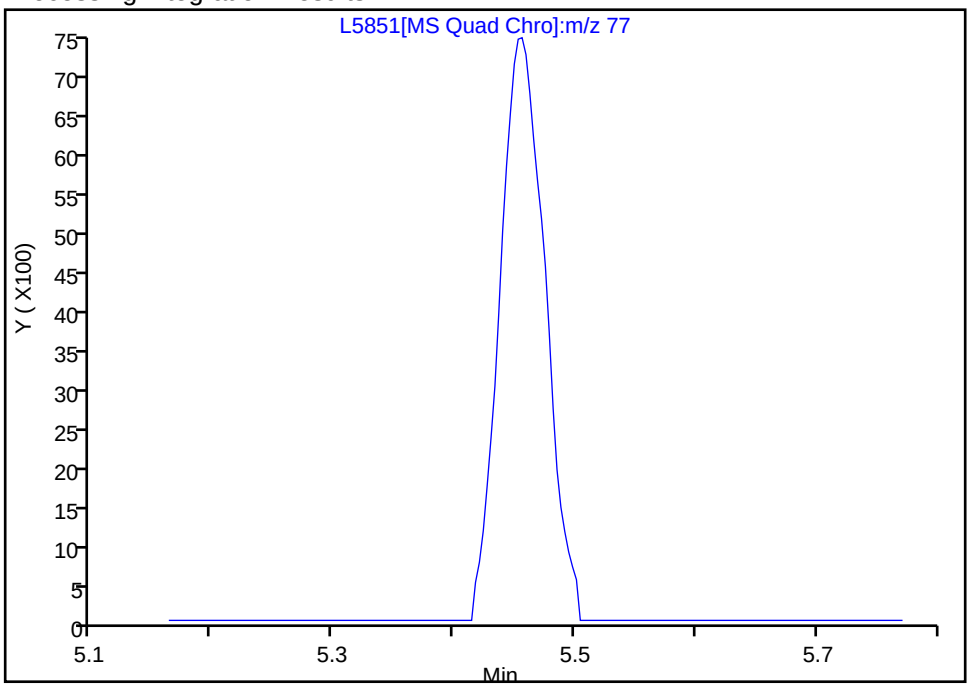
Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5851.D
Injection Date: 18-Jan-2021 15:57:49 Instrument ID: HP5977L
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS Quad

56 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

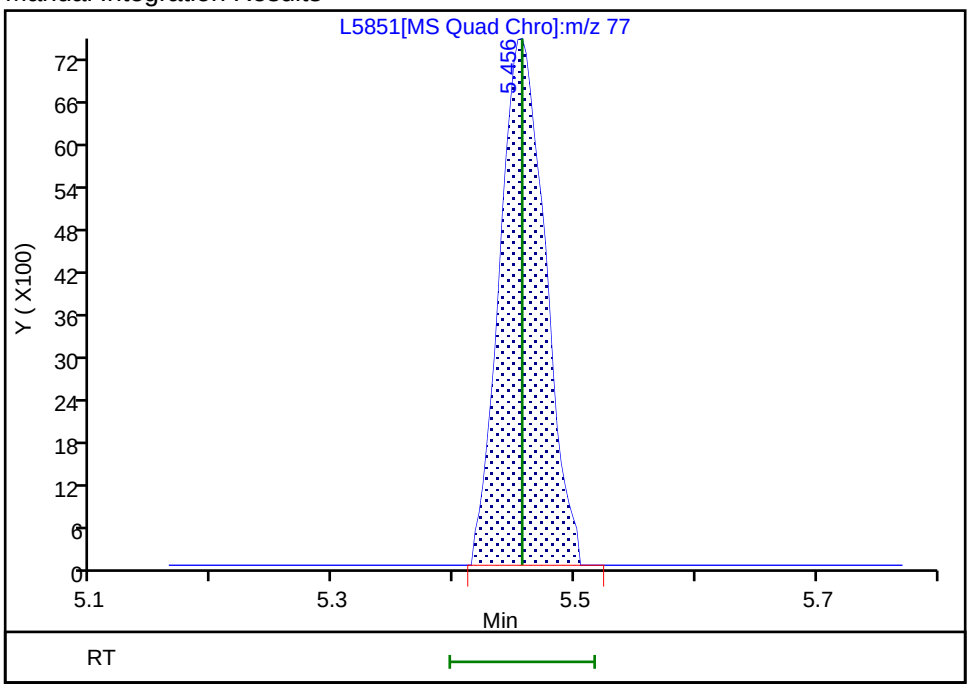
Not Detected
Expected RT: 5.46

Processing Integration Results



Manual Integration Results

RT: 5.46
Area: 19610
Amount: 2.061796
Amount Units: ug/L



Reviewer: HillL, 19-Jan-2021 10:44:45
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5852.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 18-Jan-2021 16:22:39 ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 3
Misc. Info.: 480-0096150-008
Operator ID: LH Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 19-Jan-2021 11:28:31 Calib Date: 18-Jan-2021 22:35:42
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5867.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1610

First Level Reviewer: HillL Date: 19-Jan-2021 10:45:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.482	6.485	-0.003	99	123838	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.447	9.447	0.000	86	534306	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.736	11.736	0.000	96	300980	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.913	5.913	0.000	95	171592	25.0	24.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.228	6.228	0.000	97	207844	25.0	25.0	
$ 6 Toluene-d8 (Surr)	98	7.948	7.948	0.000	93	629954	25.0	24.8	
$ 7 4-Bromofluorobenzene (Surr)	174	10.652	10.652	0.000	99	233746	25.0	25.0	
10 Dichlorodifluoromethane	85	2.164	2.170	-0.006	98	47225	5.00	5.01	
13 Chloromethane	50	2.431	2.434	-0.003	99	43274	5.00	5.08	
14 Vinyl chloride	62	2.566	2.562	0.004	81	35395	5.00	5.25	
15 Butadiene	54	2.575	2.572	0.003	88	36775	5.00	5.12	
18 Bromomethane	94	2.964	2.958	0.006	95	26089	5.00	5.42	
19 Chloroethane	64	3.058	3.058	0.000	98	19502	5.00	4.94	
20 Dichlorofluoromethane	67	3.286	3.286	0.000	96	57491	5.00	5.14	
21 Trichlorofluoromethane	101	3.299	3.299	0.000	96	63961	5.00	5.09	
26 Ethyl ether	59	3.585	3.582	0.003	92	28626	5.00	5.01	
28 Acrolein	56	3.788	3.788	0.000	97	10096	25.0	26.2	
29 112TCTFE	101	3.807	3.810	-0.003	93	30267	5.00	5.24	
30 1,1-Dichloroethene	96	3.839	3.839	0.000	99	29616	5.00	5.15	
31 Acetone	43	3.936	3.932	0.004	100	67462	25.0	25.0	
33 Iodomethane	142	4.032	4.025	0.007	97	56253	5.00	5.18	
35 Carbon disulfide	76	4.083	4.083	0.000	99	98221	5.00	5.22	
37 3-Chloro-1-propene	41	4.199	4.199	0.000	91	50921	5.00	5.15	
38 Methyl acetate	43	4.212	4.209	0.003	97	59172	10.0	9.85	
39 Methylene Chloride	84	4.341	4.337	0.004	94	37930	5.00	5.13	
40 2-Methyl-2-propanol	59	4.434	4.431	0.003	97	33241	50.0	41.7	
41 Methyl tert-butyl ether	73	4.517	4.514	0.003	96	104171	5.00	5.06	
42 trans-1,2-Dichloroethene	96	4.559	4.559	0.000	97	35414	5.00	5.11	
44 Acrylonitrile	53	4.598	4.598	0.000	99	156817	50.0	50.8	
47 Hexane	57	4.720	4.717	0.003	91	49794	5.00	5.25	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
49 Vinyl acetate	43	4.958	4.958	0.000	97	158527	10.0	10.2	
50 1,1-Dichloroethane	63	4.961	4.958	0.003	95	64453	5.00	5.22	
56 2,2-Dichloropropane	77	5.460	5.456	0.004	91	49333	5.00	5.25	
57 2-Butanone (MEK)	43	5.485	5.482	0.003	100	102928	25.0	25.3	
58 cis-1,2-Dichloroethene	96	5.482	5.482	0.000	76	41019	5.00	5.11	
60 Chlorobromomethane	128	5.714	5.714	0.000	92	21944	5.00	5.15	
61 Tetrahydrofuran	42	5.730	5.730	0.000	89	25432	10.0	10.2	
62 Chloroform	83	5.759	5.759	0.000	92	71745	5.00	4.95	
64 1,1,1-Trichloroethane	97	5.903	5.903	0.000	97	67668	5.00	5.23	
65 Cyclohexane	56	5.923	5.923	0.000	89	62587	5.00	5.26	
66 Carbon tetrachloride	117	6.042	6.038	0.004	95	62088	5.00	5.11	
67 1,1-Dichloropropene	75	6.038	6.038	0.000	93	51683	5.00	5.24	
69 Isobutyl alcohol	43	6.141	6.135	0.006	96	41327	125.0	122.6	
70 Benzene	78	6.244	6.244	0.000	97	144334	5.00	5.19	
72 1,2-Dichloroethane	62	6.299	6.299	0.000	98	60200	5.00	5.08	
73 n-Heptane	43	6.337	6.337	0.000	92	51271	5.00	5.40	
75 Trichloroethene	95	6.813	6.813	0.000	96	42382	5.00	5.32	
76 Methylcyclohexane	83	6.945	6.945	0.000	93	59266	5.00	5.23	
77 1,2-Dichloropropane	63	7.054	7.058	-0.004	92	37614	5.00	5.39	
81 1,4-Dioxane	88	7.170	7.164	0.006	92	4925	100.0	91.0	
82 Dibromomethane	93	7.202	7.199	0.003	89	24317	5.00	4.88	
83 Dichlorobromomethane	83	7.318	7.318	0.000	99	55461	5.00	5.20	
84 2-Chloroethyl vinyl ether	63	7.537	7.540	-0.003	95	23958	5.00	4.91	
85 cis-1,3-Dichloropropene	75	7.717	7.717	0.000	95	60822	5.00	4.98	
87 4-Methyl-2-pentanone (MIBK)	43	7.820	7.820	0.000	95	215023	25.0	25.8	
88 Toluene	92	8.013	8.016	-0.003	98	103431	5.00	5.31	
90 Ethyl methacrylate	69	8.244	8.244	0.000	90	46047	5.00	4.87	
91 trans-1,3-Dichloropropene	75	8.257	8.257	0.000	96	60828	5.00	5.09	
93 1,1,2-Trichloroethane	83	8.463	8.463	0.000	93	29344	5.00	5.28	
94 Tetrachloroethene	166	8.553	8.553	0.000	97	45639	5.00	4.99	
95 1,3-Dichloropropane	76	8.640	8.636	0.004	90	59823	5.00	5.13	
96 2-Hexanone	43	8.643	8.643	0.000	95	160616	25.0	25.9	
98 Chlorodibromomethane	129	8.887	8.884	0.003	90	45596	5.00	5.11	
101 Ethylene Dibromide	107	9.019	9.022	-0.003	98	39470	5.00	5.24	
103 Chlorobenzene	112	9.476	9.475	0.001	96	114492	5.00	5.07	
104 Ethylbenzene	91	9.533	9.533	0.000	98	198338	5.00	5.22	
105 1,1,1,2-Tetrachloroethane	131	9.556	9.556	0.000	93	44849	5.00	5.19	
106 m-Xylene & p-Xylene	106	9.649	9.649	0.000	98	78630	5.00	5.26	
107 o-Xylene	106	10.090	10.090	0.000	97	75069	5.00	5.24	
109 Styrene	104	10.112	10.112	0.000	95	128585	5.00	5.21	
110 Bromoform	173	10.389	10.389	0.000	95	32906	5.00	5.03	
111 Isopropylbenzene	105	10.437	10.437	0.000	96	199607	5.00	5.21	
112 1,1,2,2-Tetrachloroethane	83	10.810	10.813	-0.003	96	50991	5.00	5.19	
113 Bromobenzene	156	10.823	10.823	0.000	94	51824	5.00	5.12	
114 N-Propylbenzene	91	10.845	10.845	0.000	98	237870	5.00	5.37	
115 trans-1,4-Dichloro-2-butene	53	10.849	10.855	-0.006	69	12797	5.00	4.52	
116 1,2,3-Trichloropropane	110	10.868	10.868	0.000	85	18648	5.00	5.24	
117 2-Chlorotoluene	126	10.977	10.977	0.000	96	48208	5.00	5.33	
118 1,3,5-Trimethylbenzene	105	11.000	11.000	0.000	94	174657	5.00	5.27	
119 4-Chlorotoluene	91	11.077	11.077	0.000	98	150032	5.00	5.23	
120 tert-Butylbenzene	134	11.315	11.315	0.000	92	37152	5.00	5.34	
121 1,2,4-Trimethylbenzene	105	11.366	11.366	0.000	97	178355	5.00	5.24	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	11.511	11.514	-0.003	95	211561	5.00	5.25	
123 4-Isopropyltoluene	119	11.630	11.630	0.000	96	190555	5.00	5.18	
124 1,3-Dichlorobenzene	146	11.678	11.678	0.000	97	101387	5.00	5.17	
126 1,4-Dichlorobenzene	146	11.758	11.758	0.000	95	101388	5.00	5.00	
127 n-Butylbenzene	91	11.996	11.996	0.000	98	167276	5.00	5.30	
128 1,2-Dichlorobenzene	146	12.099	12.099	0.000	97	98170	5.00	5.26	
129 1,2-Dibromo-3-Chloropropane	75	12.771	12.774	-0.003	83	11689	5.00	5.00	
130 1,2,4-Trichlorobenzene	180	13.443	13.443	0.000	94	73116	5.00	5.09	
131 Hexachlorobutadiene	225	13.533	13.530	0.003	97	38095	5.00	5.31	
132 Naphthalene	128	13.697	13.697	0.000	97	179134	5.00	5.08	
133 1,2,3-Trichlorobenzene	180	13.922	13.922	0.000	96	68109	5.00	5.09	
S 143 Xylenes, Total	1				0			10.5	
S 142 Total BTEX	1				0			26.2	
S 144 1,3-Dichloropropene, Total	1				0			10.1	
S 141 1,2-Dichloroethene, Total	1				0			10.2	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00199	Amount Added:	5.00	Units: uL	
GAS CORP mix_00437	Amount Added:	5.00	Units: uL	
L_8260_IS_00023	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_SURR_00022	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 19-Jan-2021 11:28:32 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5852.D

Injection Date: 18-Jan-2021 16:22:39 Instrument ID: HP5977L

Lims ID: IC 3

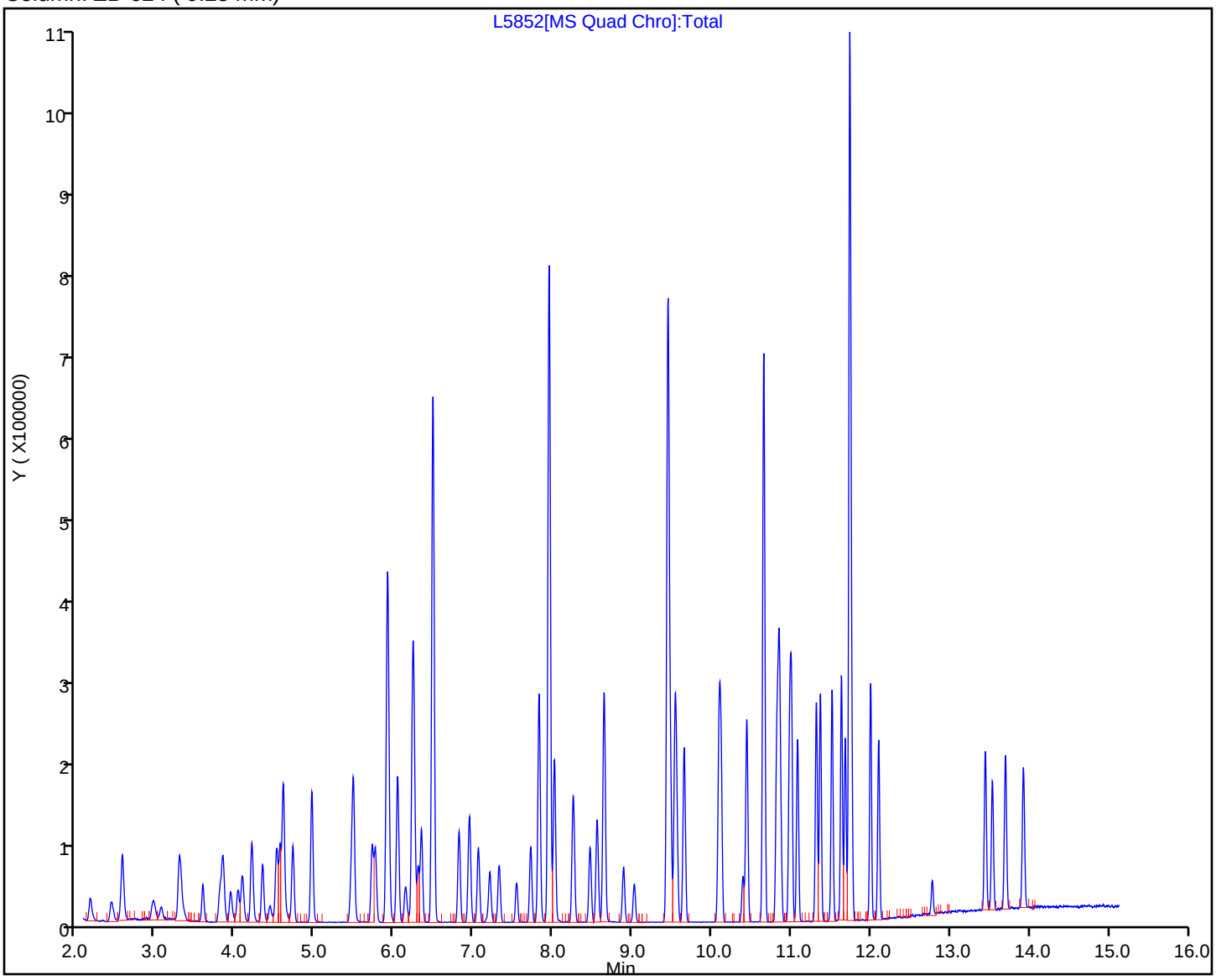
Client ID:

Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 8

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5853.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 18-Jan-2021 16:47:55 ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 4
Misc. Info.: 480-0096150-009
Operator ID: LH Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 19-Jan-2021 11:28:38 Calib Date: 18-Jan-2021 22:35:42
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5867.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1610

First Level Reviewer: HillL Date: 19-Jan-2021 10:46:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.485	6.485	0.000	99	127343	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.443	9.447	-0.004	86	547540	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.736	11.736	0.000	95	311311	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.913	5.913	0.000	95	175471	25.0	24.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.228	6.228	0.000	98	213045	25.0	24.9	
$ 6 Toluene-d8 (Surr)	98	7.948	7.948	0.000	93	651612	25.0	25.1	
$ 7 4-Bromofluorobenzene (Surr)	174	10.652	10.652	0.000	98	245092	25.0	25.6	
10 Dichlorodifluoromethane	85	2.167	2.170	-0.003	98	90771	10.0	9.36	
13 Chloromethane	50	2.434	2.434	0.000	99	81892	10.0	9.34	
14 Vinyl chloride	62	2.566	2.562	0.004	98	68870	10.0	9.94	
15 Butadiene	54	2.575	2.572	0.003	93	69197	10.0	9.37	
18 Bromomethane	94	2.955	2.958	-0.003	93	48666	10.0	9.83	
19 Chloroethane	64	3.061	3.058	0.003	98	38310	10.0	9.43	
20 Dichlorofluoromethane	67	3.289	3.286	0.003	97	108001	10.0	9.39	
21 Trichlorofluoromethane	101	3.302	3.299	0.003	97	127323	10.0	9.86	
26 Ethyl ether	59	3.585	3.582	0.003	93	61656	10.0	10.5	
28 Acrolein	56	3.788	3.788	0.000	94	19384	50.0	49.0	
29 112TCTFE	101	3.807	3.810	-0.003	93	60832	10.0	10.2	
30 1,1-Dichloroethene	96	3.839	3.839	0.000	98	58585	10.0	9.91	
31 Acetone	43	3.936	3.932	0.004	100	134887	50.0	48.6	
33 Iodomethane	142	4.029	4.025	0.004	97	114331	10.0	10.2	
35 Carbon disulfide	76	4.083	4.083	0.000	99	196446	10.0	10.2	
37 3-Chloro-1-propene	41	4.199	4.199	0.000	89	101893	10.0	10.0	
38 Methyl acetate	43	4.212	4.209	0.003	97	115740	20.0	18.7	
39 Methylene Chloride	84	4.337	4.337	0.000	94	74682	10.0	10.2	
40 2-Methyl-2-propanol	59	4.434	4.431	0.003	100	81509	100.0	99.5	
41 Methyl tert-butyl ether	73	4.514	4.514	0.000	97	219306	10.0	10.4	
42 trans-1,2-Dichloroethene	96	4.559	4.559	0.000	98	72600	10.0	10.2	
44 Acrylonitrile	53	4.598	4.598	0.000	98	322910	100.0	101.7	
47 Hexane	57	4.720	4.717	0.003	90	98302	10.0	10.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
49 Vinyl acetate	43	4.958	4.958	0.000	97	327001	20.0	20.4	
50 1,1-Dichloroethane	63	4.958	4.958	0.000	71	132280	10.0	10.4	
56 2,2-Dichloropropane	77	5.456	5.456	0.000	93	97516	10.0	10.1	
57 2-Butanone (MEK)	43	5.482	5.482	0.000	100	213164	50.0	51.0	
58 cis-1,2-Dichloroethene	96	5.482	5.482	0.000	86	82693	10.0	10.0	
60 Chlorobromomethane	128	5.717	5.714	0.003	89	45291	10.0	10.3	
61 Tetrahydrofuran	42	5.726	5.730	-0.004	90	51317	20.0	20.1	
62 Chloroform	83	5.759	5.759	0.000	91	142611	10.0	9.56	
64 1,1,1-Trichloroethane	97	5.903	5.903	0.000	97	134086	10.0	10.1	
65 Cyclohexane	56	5.923	5.923	0.000	91	123366	10.0	10.1	
66 Carbon tetrachloride	117	6.038	6.038	0.000	96	122433	10.0	9.80	
67 1,1-Dichloropropene	75	6.038	6.038	0.000	93	102148	10.0	10.1	
69 Isobutyl alcohol	43	6.138	6.135	0.003	90	90080	250.0	259.9	
70 Benzene	78	6.247	6.244	0.003	98	291047	10.0	10.2	
72 1,2-Dichloroethane	62	6.299	6.299	0.000	97	126467	10.0	10.4	
73 n-Heptane	43	6.337	6.337	0.000	92	100415	10.0	10.3	
75 Trichloroethene	95	6.810	6.813	-0.003	97	86204	10.0	10.5	
76 Methylcyclohexane	83	6.945	6.945	0.000	91	117387	10.0	10.1	
77 1,2-Dichloropropane	63	7.058	7.058	0.000	90	75942	10.0	10.6	
81 1,4-Dioxane	88	7.164	7.164	0.000	93	13031	200.0	211.3	
82 Dibromomethane	93	7.199	7.199	0.000	93	52730	10.0	10.3	
83 Dichlorobromomethane	83	7.318	7.318	0.000	99	113234	10.0	10.3	
84 2-Chloroethyl vinyl ether	63	7.537	7.540	-0.003	95	50802	10.0	10.1	
85 cis-1,3-Dichloropropene	75	7.714	7.717	-0.003	94	127282	10.0	10.1	
87 4-Methyl-2-pentanone (MIBK)	43	7.820	7.820	0.000	96	444193	50.0	52.1	
88 Toluene	92	8.016	8.016	0.000	98	203650	10.0	10.2	
90 Ethyl methacrylate	69	8.244	8.244	0.000	85	100375	10.0	10.4	
91 trans-1,3-Dichloropropene	75	8.257	8.257	0.000	98	127329	10.0	10.4	
93 1,1,2-Trichloroethane	83	8.466	8.463	0.003	93	58976	10.0	10.4	
94 Tetrachloroethene	166	8.550	8.553	-0.003	96	93069	10.0	9.93	
95 1,3-Dichloropropane	76	8.633	8.636	-0.003	92	123292	10.0	10.3	
96 2-Hexanone	43	8.643	8.643	0.000	95	335515	50.0	52.9	
98 Chlorodibromomethane	129	8.887	8.884	0.003	90	92350	10.0	10.1	
101 Ethylene Dibromide	107	9.019	9.022	-0.003	98	80653	10.0	10.5	
103 Chlorobenzene	112	9.476	9.475	0.001	95	235849	10.0	10.2	
104 Ethylbenzene	91	9.533	9.533	0.000	98	401849	10.0	10.3	
105 1,1,1,2-Tetrachloroethane	131	9.553	9.556	-0.003	94	91591	10.0	10.3	
106 m-Xylene & p-Xylene	106	9.649	9.649	0.000	99	157927	10.0	10.3	
107 o-Xylene	106	10.090	10.090	0.000	97	152994	10.0	10.4	
109 Styrene	104	10.112	10.112	0.000	95	268037	10.0	10.6	
110 Bromoform	173	10.389	10.389	0.000	97	70000	10.0	10.4	
111 Isopropylbenzene	105	10.437	10.437	0.000	96	406668	10.0	10.3	
112 1,1,2,2-Tetrachloroethane	83	10.813	10.813	0.000	97	106735	10.0	10.5	
113 Bromobenzene	156	10.823	10.823	0.000	95	108421	10.0	10.4	
114 N-Propylbenzene	91	10.845	10.845	0.000	99	472145	10.0	10.3	
115 trans-1,4-Dichloro-2-butene	53	10.855	10.855	0.000	74	29464	10.0	9.11	
116 1,2,3-Trichloropropane	110	10.868	10.868	0.000	85	40596	10.0	11.0	
117 2-Chlorotoluene	126	10.977	10.977	0.000	97	96337	10.0	10.3	
118 1,3,5-Trimethylbenzene	105	11.000	11.000	0.000	94	354134	10.0	10.3	
119 4-Chlorotoluene	91	11.077	11.077	0.000	98	305932	10.0	10.3	
120 tert-Butylbenzene	134	11.315	11.315	0.000	93	73029	10.0	10.1	
121 1,2,4-Trimethylbenzene	105	11.366	11.366	0.000	97	365526	10.0	10.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	11.514	11.514	0.000	94	425757	10.0	10.2	
123 4-Isopropyltoluene	119	11.630	11.630	0.000	97	393554	10.0	10.3	
124 1,3-Dichlorobenzene	146	11.678	11.678	0.000	97	209666	10.0	10.3	
126 1,4-Dichlorobenzene	146	11.758	11.758	0.000	94	214739	10.0	10.2	
127 n-Butylbenzene	91	11.996	11.996	0.000	98	334446	10.0	10.2	
128 1,2-Dichlorobenzene	146	12.099	12.099	0.000	97	201991	10.0	10.5	
129 1,2-Dibromo-3-Chloropropane	75	12.775	12.774	0.001	90	24923	10.0	10.3	
130 1,2,4-Trichlorobenzene	180	13.443	13.443	0.000	95	151619	10.0	10.2	
131 Hexachlorobutadiene	225	13.533	13.530	0.003	98	74155	10.0	10.0	
132 Naphthalene	128	13.697	13.697	0.000	97	372189	10.0	10.2	
133 1,2,3-Trichlorobenzene	180	13.922	13.922	0.000	96	143317	10.0	10.4	
S 143 Xylenes, Total	1				0			20.7	
S 142 Total BTEX	1				0			51.4	
S 144 1,3-Dichloropropene, Total	1				0			20.5	
S 141 1,2-Dichloroethene, Total	1				0			20.2	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00199	Amount Added:	5.00	Units: uL	
GAS CORP mix_00437	Amount Added:	5.00	Units: uL	
L_8260_IS_00023	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_SURR_00022	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 19-Jan-2021 11:28:39 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5853.D

Injection Date: 18-Jan-2021 16:47:55 Instrument ID: HP5977L

Lims ID: IC 4

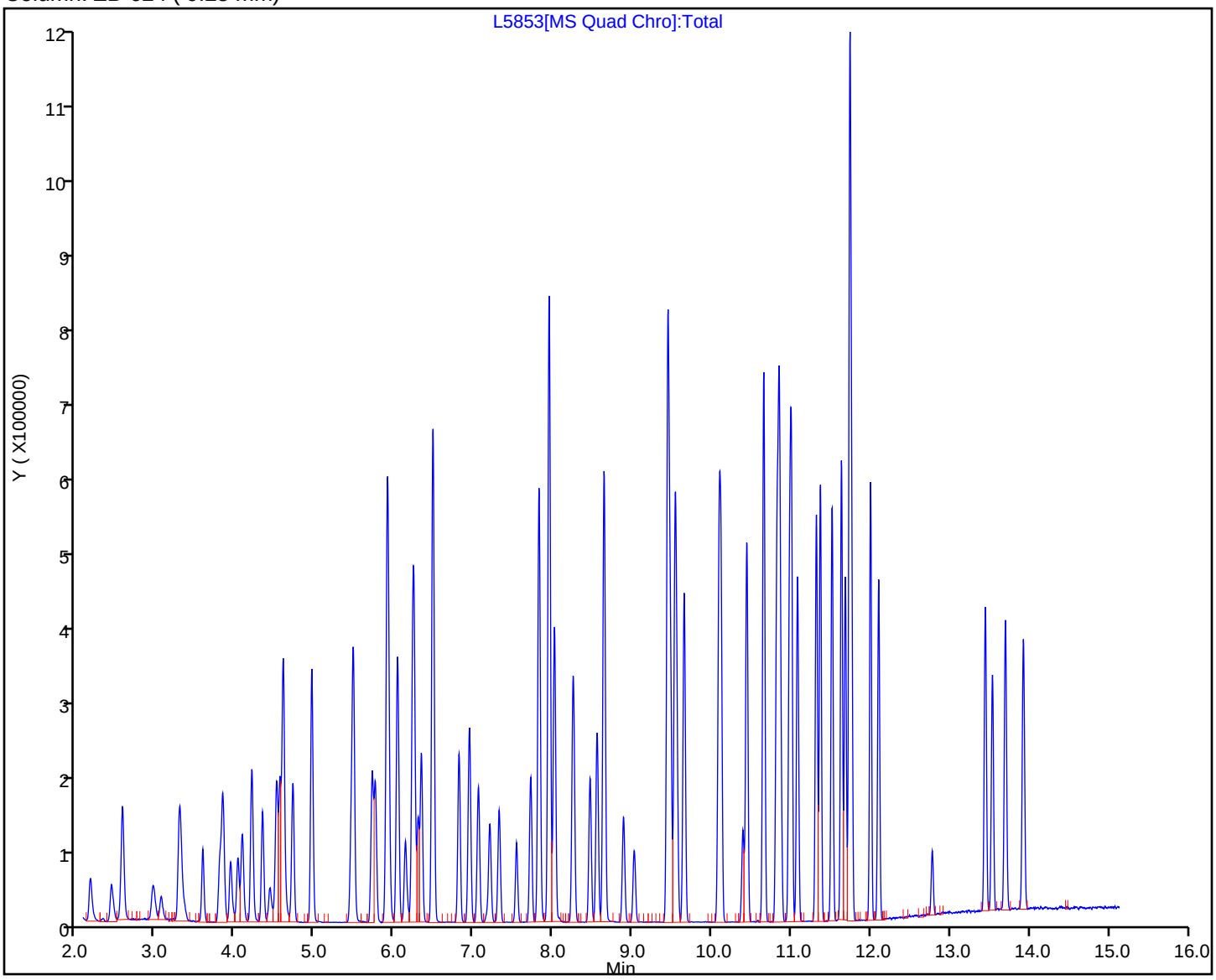
Client ID:

Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 9

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5854.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 18-Jan-2021 17:12:43 ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS 5
Misc. Info.: 480-0096150-010
Operator ID: LH Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 19-Jan-2021 11:28:45 Calib Date: 18-Jan-2021 22:35:42
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5867.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1610

First Level Reviewer: dahnw Date: 18-Jan-2021 22:33:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.485	6.485	0.000	98	123376	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.443	9.443	0.000	86	524041	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.736	11.736	0.000	95	307844	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.913	5.913	0.000	92	172362	25.0	25.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.228	6.228	0.000	97	207482	25.0	25.1	
$ 6 Toluene-d8 (Surr)	98	7.948	7.948	0.000	93	639869	25.0	25.7	
$ 7 4-Bromofluorobenzene (Surr)	174	10.652	10.652	0.000	98	242443	25.0	26.5	
10 Dichlorodifluoromethane	85	2.170	2.170	0.000	99	234436	25.0	25.0	
13 Chloromethane	50	2.434	2.434	0.000	99	204972	25.0	24.1	
14 Vinyl chloride	62	2.562	2.562	0.000	98	170637	25.0	25.4	
15 Butadiene	54	2.572	2.572	0.000	89	173045	25.0	24.2	
18 Bromomethane	94	2.958	2.958	0.000	95	120863	25.0	25.2	
19 Chloroethane	64	3.058	3.058	0.000	99	95871	25.0	24.4	
20 Dichlorofluoromethane	67	3.286	3.286	0.000	97	269612	25.0	24.2	
21 Trichlorofluoromethane	101	3.299	3.299	0.000	98	321015	25.0	25.6	
26 Ethyl ether	59	3.582	3.582	0.000	93	143155	25.0	25.2	
28 Acrolein	56	3.788	3.788	0.000	100	49138	125.0	128.1	
29 112TCTFE	101	3.810	3.810	0.000	91	148439	25.0	25.8	
30 1,1-Dichloroethene	96	3.839	3.839	0.000	97	142032	25.0	24.8	
31 Acetone	43	3.932	3.932	0.000	100	333734	125.0	124.2	
33 Iodomethane	142	4.025	4.025	0.000	97	275836	25.0	25.5	
35 Carbon disulfide	76	4.083	4.083	0.000	100	480396	25.0	25.6	
37 3-Chloro-1-propene	41	4.199	4.199	0.000	90	250008	25.0	25.4	
38 Methyl acetate	43	4.209	4.209	0.000	98	281990	50.0	47.1	
39 Methylene Chloride	84	4.337	4.337	0.000	94	172672	25.0	24.8	
40 2-Methyl-2-propanol	59	4.431	4.431	0.000	100	206277	250.0	259.8	
41 Methyl tert-butyl ether	73	4.514	4.514	0.000	96	512687	25.0	25.0	
42 trans-1,2-Dichloroethene	96	4.559	4.559	0.000	98	179982	25.0	26.1	
44 Acrylonitrile	53	4.598	4.598	0.000	99	762682	250.0	247.9	
47 Hexane	57	4.717	4.717	0.000	91	235951	25.0	25.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
49 Vinyl acetate	43	4.958	4.958	0.000	97	794852	50.0	51.2	
50 1,1-Dichloroethane	63	4.958	4.958	0.000	95	312445	25.0	25.4	
56 2,2-Dichloropropane	77	5.456	5.456	0.000	90	238084	25.0	25.5	
57 2-Butanone (MEK)	43	5.482	5.482	0.000	100	503517	125.0	124.4	
58 cis-1,2-Dichloroethene	96	5.482	5.482	0.000	85	203056	25.0	25.4	
60 Chlorobromomethane	128	5.714	5.714	0.000	96	106108	25.0	25.0	
61 Tetrahydrofuran	42	5.730	5.730	0.000	89	122283	50.0	49.4	
62 Chloroform	83	5.759	5.759	0.000	92	343715	25.0	23.8	
64 1,1,1-Trichloroethane	97	5.903	5.903	0.000	97	331322	25.0	25.7	
65 Cyclohexane	56	5.923	5.923	0.000	91	296432	25.0	25.0	
66 Carbon tetrachloride	117	6.038	6.038	0.000	96	308983	25.0	25.5	
67 1,1-Dichloropropene	75	6.038	6.038	0.000	94	249403	25.0	25.4	
69 Isobutyl alcohol	43	6.135	6.135	0.000	95	220601	625.0	657.0	
70 Benzene	78	6.244	6.244	0.000	98	692849	25.0	25.0	
72 1,2-Dichloroethane	62	6.299	6.299	0.000	97	293650	25.0	24.9	
73 n-Heptane	43	6.337	6.337	0.000	92	231252	25.0	24.5	
75 Trichloroethene	95	6.813	6.813	0.000	97	203645	25.0	25.7	
76 Methylcyclohexane	83	6.945	6.945	0.000	91	290282	25.0	25.7	
77 1,2-Dichloropropane	63	7.058	7.058	0.000	91	173406	25.0	24.9	
81 1,4-Dioxane	88	7.164	7.164	0.000	93	32645	500.0	528.8	
82 Dibromomethane	93	7.199	7.199	0.000	92	126208	25.0	25.4	
83 Dichlorobromomethane	83	7.318	7.318	0.000	99	269838	25.0	25.4	
84 2-Chloroethyl vinyl ether	63	7.540	7.540	0.000	94	123216	25.0	25.4	
85 cis-1,3-Dichloropropene	75	7.717	7.717	0.000	95	310666	25.0	25.5	
87 4-Methyl-2-pentanone (MIBK)	43	7.820	7.820	0.000	96	1053533	125.0	129.1	
88 Toluene	92	8.016	8.016	0.000	98	483828	25.0	25.3	
90 Ethyl methacrylate	69	8.244	8.244	0.000	88	249116	25.0	26.9	
91 trans-1,3-Dichloropropene	75	8.257	8.257	0.000	98	309294	25.0	26.4	
93 1,1,2-Trichloroethane	83	8.463	8.463	0.000	93	139672	25.0	25.6	
94 Tetrachloroethene	166	8.553	8.553	0.000	97	227012	25.0	25.3	
95 1,3-Dichloropropane	76	8.636	8.636	0.000	92	292645	25.0	25.6	
96 2-Hexanone	43	8.643	8.643	0.000	94	789280	125.0	130.0	
98 Chlorodibromomethane	129	8.884	8.884	0.000	91	226581	25.0	25.9	
101 Ethylene Dibromide	107	9.022	9.022	0.000	100	189691	25.0	25.7	
103 Chlorobenzene	112	9.475	9.475	0.000	95	553452	25.0	25.0	
104 Ethylbenzene	91	9.533	9.533	0.000	99	953729	25.0	25.6	
105 1,1,1,2-Tetrachloroethane	131	9.556	9.556	0.000	94	219666	25.0	25.9	
106 m-Xylene & p-Xylene	106	9.649	9.649	0.000	99	379357	25.0	25.9	
107 o-Xylene	106	10.090	10.090	0.000	96	365222	25.0	26.0	
109 Styrene	104	10.112	10.112	0.000	95	636355	25.0	26.3	
110 Bromoform	173	10.389	10.389	0.000	98	171008	25.0	26.7	
111 Isopropylbenzene	105	10.437	10.437	0.000	95	994112	25.0	25.4	
112 1,1,2,2-Tetrachloroethane	83	10.813	10.813	0.000	97	241480	25.0	24.0	
113 Bromobenzene	156	10.823	10.823	0.000	96	255669	25.0	24.7	
114 N-Propylbenzene	91	10.845	10.845	0.000	99	1143344	25.0	25.2	
115 trans-1,4-Dichloro-2-butene	53	10.855	10.855	0.000	77	80311	25.0	23.8	
116 1,2,3-Trichloropropane	110	10.868	10.868	0.000	85	89237	25.0	24.5	
117 2-Chlorotoluene	126	10.977	10.977	0.000	96	234439	25.0	25.4	
118 1,3,5-Trimethylbenzene	105	11.000	11.000	0.000	94	861854	25.0	25.4	
119 4-Chlorotoluene	91	11.077	11.077	0.000	98	731760	25.0	24.9	
120 tert-Butylbenzene	134	11.315	11.315	0.000	93	189369	25.0	26.6	
121 1,2,4-Trimethylbenzene	105	11.366	11.366	0.000	98	885989	25.0	25.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	11.514	11.514	0.000	94	1055839	25.0	25.6	
123 4-Isopropyltoluene	119	11.630	11.630	0.000	97	967024	25.0	25.7	
124 1,3-Dichlorobenzene	146	11.678	11.678	0.000	98	501558	25.0	25.0	
126 1,4-Dichlorobenzene	146	11.758	11.758	0.000	95	513784	25.0	24.8	
127 n-Butylbenzene	91	11.996	11.996	0.000	97	818915	25.0	25.4	
128 1,2-Dichlorobenzene	146	12.099	12.099	0.000	97	480531	25.0	25.2	
129 1,2-Dibromo-3-Chloropropane	75	12.774	12.774	0.000	88	58236	25.0	24.4	
130 1,2,4-Trichlorobenzene	180	13.443	13.443	0.000	95	365521	25.0	24.9	
131 Hexachlorobutadiene	225	13.530	13.530	0.000	97	183420	25.0	25.0	
132 Naphthalene	128	13.697	13.697	0.000	97	906125	25.0	25.1	
133 1,2,3-Trichlorobenzene	180	13.922	13.922	0.000	96	349743	25.0	25.6	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00199	Amount Added: 12.50	Units: uL	
GAS CORP mix_00437	Amount Added: 12.50	Units: uL	
L_8260_IS_00023	Amount Added: 2.00	Units: uL	Run Reagent
L_8260_SURR_00022	Amount Added: 2.00	Units: uL	Run Reagent

Report Date: 19-Jan-2021 11:28:46 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5854.D

Injection Date: 18-Jan-2021 17:12:43 Instrument ID: HP5977L

Lims ID: ICIS 5

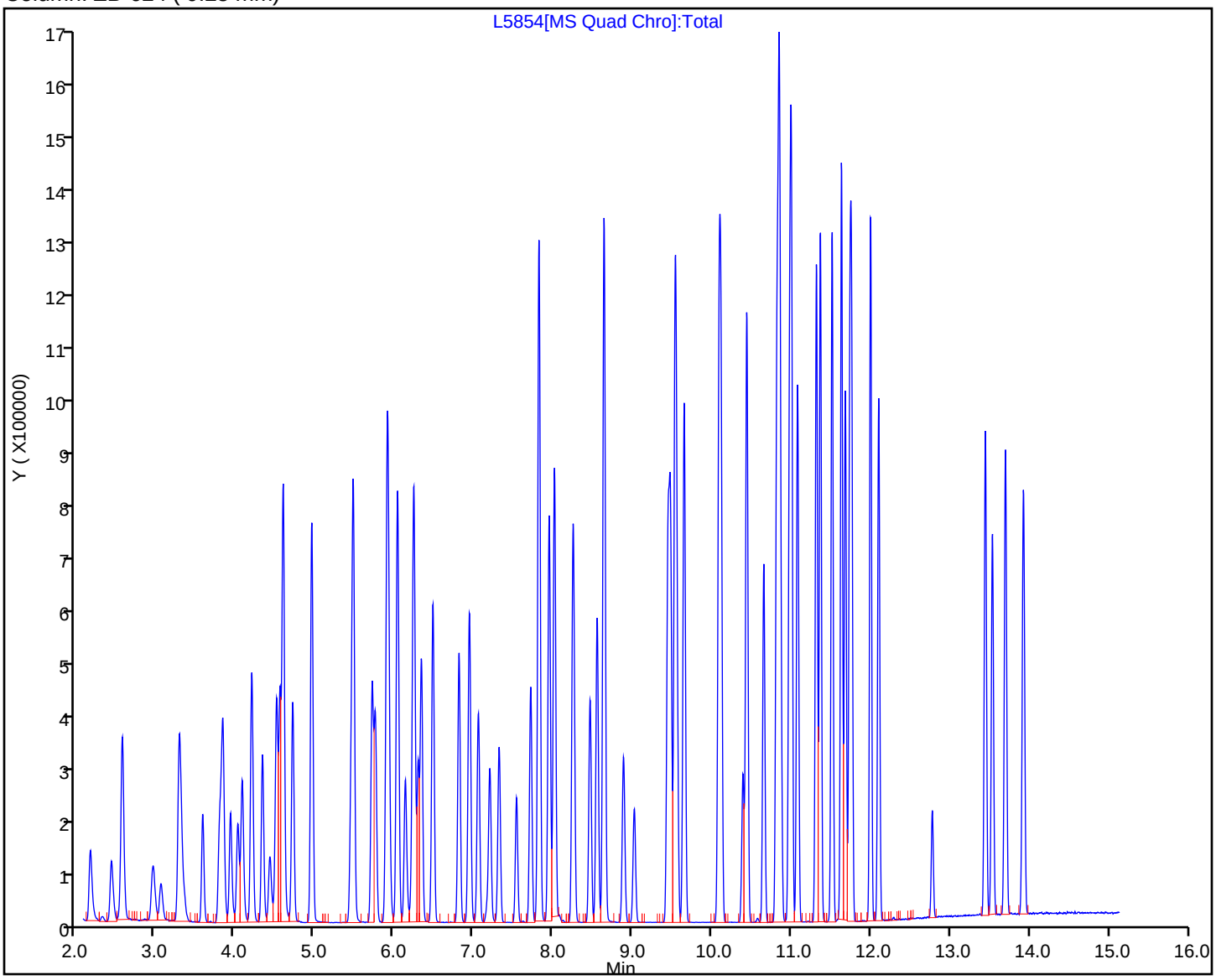
Client ID:

Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 10

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5855.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 18-Jan-2021 17:37:32 ALS Bottle#: 0 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 6
Misc. Info.: 480-0096150-011
Operator ID: LH Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 19-Jan-2021 11:28:52 Calib Date: 18-Jan-2021 22:35:42
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5867.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1610

First Level Reviewer: HillL Date: 19-Jan-2021 10:47:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.482	6.485	-0.003	99	127112	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.443	9.443	0.000	85	553975	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.736	11.736	0.000	95	323011	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.913	5.913	0.000	91	177857	25.0	25.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.228	6.228	0.000	96	217177	25.0	25.5	
$ 6 Toluene-d8 (Surr)	98	7.948	7.948	0.000	93	639349	25.0	24.3	
$ 7 4-Bromofluorobenzene (Surr)	174	10.652	10.652	0.000	99	229035	25.0	23.6	
10 Dichlorodifluoromethane	85	2.167	2.170	-0.003	99	480309	50.0	49.6	
13 Chloromethane	50	2.434	2.434	0.000	99	422119	50.0	48.3	
14 Vinyl chloride	62	2.563	2.562	0.001	98	361126	50.0	52.2	
15 Butadiene	54	2.572	2.572	0.000	88	351921	50.0	47.7	
18 Bromomethane	94	2.961	2.958	0.003	94	252859	50.0	51.2	
19 Chloroethane	64	3.061	3.058	0.003	99	201156	50.0	49.6	
20 Dichlorofluoromethane	67	3.289	3.286	0.003	97	555042	50.0	48.3	
21 Trichlorofluoromethane	101	3.302	3.299	0.003	98	661576	50.0	51.3	
26 Ethyl ether	59	3.585	3.582	0.003	92	307837	50.0	52.5	
28 Acrolein	56	3.788	3.788	0.000	99	104405	250.0	264.3	
29 112TCTFE	101	3.810	3.810	0.000	91	320016	50.0	54.0	
30 1,1-Dichloroethene	96	3.839	3.839	0.000	96	309709	50.0	52.5	
31 Acetone	43	3.932	3.932	0.000	99	689307	250.0	249.0	
33 Iodomethane	142	4.029	4.025	0.004	98	592761	50.0	53.2	
35 Carbon disulfide	76	4.083	4.083	0.000	100	1023550	50.0	53.0	
37 3-Chloro-1-propene	41	4.196	4.199	-0.003	90	528117	50.0	52.1	
38 Methyl acetate	43	4.209	4.209	0.000	98	577797	100.0	93.7	
39 Methylene Chloride	84	4.337	4.337	0.000	95	365851	50.0	51.5	
40 2-Methyl-2-propanol	59	4.427	4.431	-0.004	100	460747	500.0	563.2	
41 Methyl tert-butyl ether	73	4.514	4.514	0.000	96	1095728	50.0	51.9	
42 trans-1,2-Dichloroethene	96	4.556	4.559	-0.003	98	379974	50.0	53.4	
44 Acrylonitrile	53	4.598	4.598	0.000	99	1595537	500.0	503.4	
47 Hexane	57	4.717	4.717	0.000	91	520194	50.0	53.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
49 Vinyl acetate	43	4.955	4.958	-0.003	97	1696979	100.0	106.1	
50 1,1-Dichloroethane	63	4.958	4.958	0.000	93	661567	50.0	52.2	
56 2,2-Dichloropropane	77	5.456	5.456	0.000	89	499817	50.0	51.9	
57 2-Butanone (MEK)	43	5.482	5.482	0.000	100	1024485	250.0	245.8	
58 cis-1,2-Dichloroethene	96	5.482	5.482	0.000	81	420873	50.0	51.1	
60 Chlorobromomethane	128	5.714	5.714	0.000	90	225476	50.0	51.5	
61 Tetrahydrofuran	42	5.726	5.730	-0.004	89	248954	100.0	97.6	
62 Chloroform	83	5.759	5.759	0.000	92	726001	50.0	48.8	
64 1,1,1-Trichloroethane	97	5.903	5.903	0.000	98	706560	50.0	53.2	
65 Cyclohexane	56	5.923	5.923	0.000	91	639366	50.0	52.3	
66 Carbon tetrachloride	117	6.038	6.038	0.000	96	656541	50.0	52.6	
67 1,1-Dichloropropene	75	6.038	6.038	0.000	93	527075	50.0	52.0	
69 Isobutyl alcohol	43	6.135	6.135	0.000	94	467109	1250.0	1350.3	
70 Benzene	78	6.247	6.244	0.003	97	1462687	50.0	51.2	
72 1,2-Dichloroethane	62	6.299	6.299	0.000	97	624012	50.0	51.3	
73 n-Heptane	43	6.341	6.337	0.004	91	500124	50.0	51.3	
75 Trichloroethene	95	6.813	6.813	0.000	97	430281	50.0	52.6	
76 Methylcyclohexane	83	6.945	6.945	0.000	91	639514	50.0	55.0	
77 1,2-Dichloropropane	63	7.058	7.058	0.000	91	362957	50.0	50.6	
81 1,4-Dioxane	88	7.164	7.164	0.000	95	66974	1000.0	1012.1	
82 Dibromomethane	93	7.199	7.199	0.000	93	268350	50.0	52.4	
83 Dichlorobromomethane	83	7.318	7.318	0.000	99	580100	50.0	53.0	
84 2-Chloroethyl vinyl ether	63	7.537	7.540	-0.003	94	263516	50.0	52.6	
85 cis-1,3-Dichloropropene	75	7.717	7.717	0.000	95	662968	50.0	52.9	
87 4-Methyl-2-pentanone (MIBK)	43	7.820	7.820	0.000	95	2149770	250.0	249.1	
88 Toluene	92	8.016	8.016	0.000	98	1039962	50.0	51.5	
90 Ethyl methacrylate	69	8.244	8.244	0.000	89	527206	50.0	53.8	
91 trans-1,3-Dichloropropene	75	8.257	8.257	0.000	97	658514	50.0	53.1	
93 1,1,2-Trichloroethane	83	8.463	8.463	0.000	93	295382	50.0	51.3	
94 Tetrachloroethene	166	8.553	8.553	0.000	97	490128	50.0	51.7	
95 1,3-Dichloropropane	76	8.636	8.636	0.000	93	613977	50.0	50.8	
96 2-Hexanone	43	8.640	8.643	-0.003	95	1646560	250.0	256.5	
98 Chlorodibromomethane	129	8.887	8.884	0.003	90	484500	50.0	52.4	
101 Ethylene Dibromide	107	9.019	9.022	-0.003	98	404946	50.0	51.9	
103 Chlorobenzene	112	9.476	9.475	0.001	95	1184827	50.0	50.6	
104 Ethylbenzene	91	9.533	9.533	0.000	98	2002175	50.0	50.8	
105 1,1,1,2-Tetrachloroethane	131	9.556	9.556	0.000	94	474533	50.0	53.0	
106 m-Xylene & p-Xylene	106	9.649	9.649	0.000	99	791463	50.0	51.0	
107 o-Xylene	106	10.090	10.090	0.000	97	775785	50.0	52.3	
109 Styrene	104	10.112	10.112	0.000	95	1352396	50.0	52.9	
110 Bromoform	173	10.389	10.389	0.000	98	368324	50.0	54.3	
111 Isopropylbenzene	105	10.437	10.437	0.000	96	2102479	50.0	51.2	
112 1,1,2,2-Tetrachloroethane	83	10.813	10.813	0.000	96	512878	50.0	48.7	
113 Bromobenzene	156	10.823	10.823	0.000	93	543997	50.0	50.1	
114 N-Propylbenzene	91	10.845	10.845	0.000	99	2416275	50.0	50.8	
115 trans-1,4-Dichloro-2-butene	53	10.855	10.855	0.000	78	180808	50.0	50.1	
116 1,2,3-Trichloropropane	110	10.868	10.868	0.000	83	186028	50.0	48.7	
117 2-Chlorotoluene	126	10.977	10.977	0.000	96	495950	50.0	51.1	
118 1,3,5-Trimethylbenzene	105	11.000	11.000	0.000	94	1825133	50.0	51.3	
119 4-Chlorotoluene	91	11.077	11.077	0.000	98	1531691	50.0	49.7	
120 tert-Butylbenzene	134	11.315	11.315	0.000	92	399805	50.0	53.5	
121 1,2,4-Trimethylbenzene	105	11.366	11.366	0.000	97	1869714	50.0	51.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	11.514	11.514	0.000	95	2237031	50.0	51.8	
123 4-Isopropyltoluene	119	11.630	11.630	0.000	97	2044712	50.0	51.8	
124 1,3-Dichlorobenzene	146	11.678	11.678	0.000	98	1063180	50.0	50.5	
126 1,4-Dichlorobenzene	146	11.758	11.758	0.000	95	1077405	50.0	49.6	
127 n-Butylbenzene	91	11.996	11.996	0.000	98	1763807	50.0	52.0	
128 1,2-Dichlorobenzene	146	12.099	12.099	0.000	98	1017263	50.0	50.8	
129 1,2-Dibromo-3-Chloropropane	75	12.775	12.774	0.000	88	125751	50.0	50.2	
130 1,2,4-Trichlorobenzene	180	13.443	13.443	0.000	95	801289	50.0	52.0	
131 Hexachlorobutadiene	225	13.533	13.530	0.003	97	400231	50.0	52.0	
132 Naphthalene	128	13.697	13.697	0.000	97	1946391	50.0	51.4	
133 1,2,3-Trichlorobenzene	180	13.922	13.922	0.000	96	743715	50.0	51.8	
S 143 Xylenes, Total	1				0			103.3	
S 142 Total BTEX	1				0			256.8	
S 144 1,3-Dichloropropene, Total	1				0			106.0	
S 141 1,2-Dichloroethene, Total	1				0			104.5	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00199	Amount Added: 25.00	Units: uL	
GAS CORP mix_00437	Amount Added: 25.00	Units: uL	
L_8260_IS_00023	Amount Added: 2.00	Units: uL	Run Reagent
L_8260_SURR_00022	Amount Added: 2.00	Units: uL	Run Reagent

Report Date: 19-Jan-2021 11:28:53 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5855.D

Injection Date: 18-Jan-2021 17:37:32 Instrument ID: HP5977L

Lims ID: IC 6

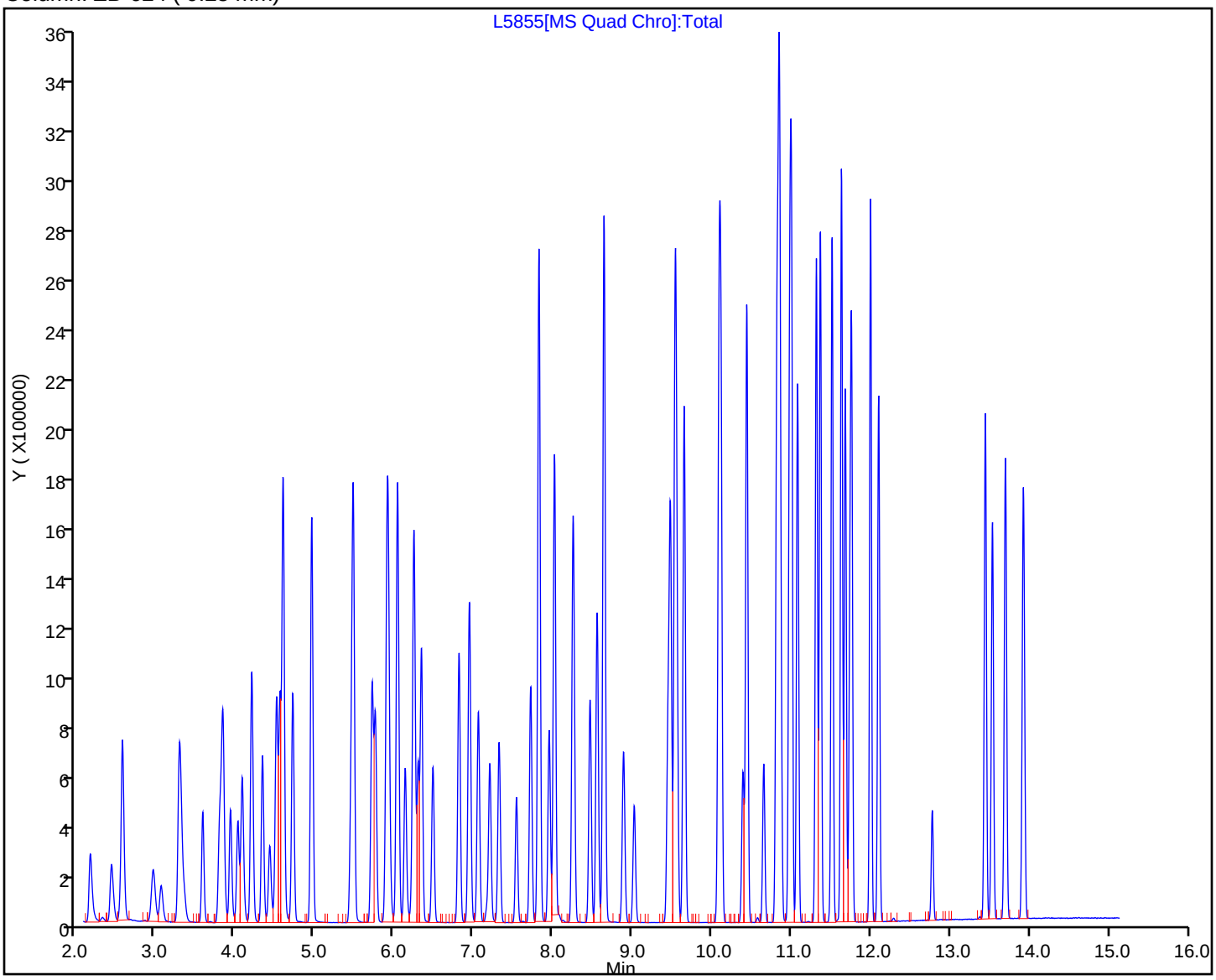
Client ID:

Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 11

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5856.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 18-Jan-2021 18:02:50 ALS Bottle#: 0 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 7
Misc. Info.: 480-0096150-012
Operator ID: LH Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 19-Jan-2021 11:29:00 Calib Date: 18-Jan-2021 22:35:42
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5867.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1610

First Level Reviewer: HillL Date: 19-Jan-2021 10:47:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.482	6.485	-0.003	98	127183	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.446	9.443	0.003	85	552220	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.736	11.736	0.000	94	311131	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.913	5.913	0.000	89	179549	25.0	25.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.228	6.228	0.000	96	215952	25.0	25.3	
$ 6 Toluene-d8 (Surr)	98	7.948	7.948	0.000	93	665845	25.0	25.4	
$ 7 4-Bromofluorobenzene (Surr)	174	10.652	10.652	0.000	99	258653	25.0	26.8	
10 Dichlorodifluoromethane	85	2.167	2.170	-0.003	99	958503	100.0	99.0	
13 Chloromethane	50	2.434	2.434	0.000	99	853616	100.0	97.5	
14 Vinyl chloride	62	2.562	2.562	0.000	98	741413	100.0	107.1	
15 Butadiene	54	2.572	2.572	0.000	91	709691	100.0	96.2	
18 Bromomethane	94	2.955	2.958	-0.003	94	509933	100.0	103.1	
19 Chloroethane	64	3.057	3.058	-0.001	99	406260	100.0	100.1	
20 Dichlorofluoromethane	67	3.286	3.286	0.000	98	1086206	100.0	94.5	
21 Trichlorofluoromethane	101	3.302	3.299	0.003	98	1288614	100.0	99.9	
26 Ethyl ether	59	3.585	3.582	0.003	91	591139	100.0	100.8	
28 Acrolein	56	3.787	3.788	-0.001	100	207732	500.0	525.5	
29 112TCTFE	101	3.810	3.810	0.000	91	583248	100.0	98.3	
30 1,1-Dichloroethene	96	3.842	3.839	0.003	97	569881	100.0	96.5	
31 Acetone	43	3.932	3.932	0.000	99	1308580	500.0	472.4	
33 Iodomethane	142	4.029	4.025	0.003	97	1137477	100.0	102.0	
35 Carbon disulfide	76	4.083	4.083	0.000	100	1908484	100.0	98.8	
37 3-Chloro-1-propene	41	4.199	4.199	0.000	91	990166	100.0	97.5	
38 Methyl acetate	43	4.209	4.209	0.000	98	1118552	200.0	181.3	
39 Methylene Chloride	84	4.337	4.337	0.000	94	697422	100.0	98.4	
40 2-Methyl-2-propanol	59	4.427	4.431	-0.004	100	947710	1000.0	1157.8	
41 Methyl tert-butyl ether	73	4.514	4.514	0.000	96	2142166	100.0	101.3	
42 trans-1,2-Dichloroethene	96	4.559	4.559	0.000	97	717600	100.0	100.8	
44 Acrylonitrile	53	4.598	4.598	0.000	99	3058708	1000.0	964.5	
47 Hexane	57	4.720	4.717	0.003	91	923877	100.0	94.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
49 Vinyl acetate	43	4.955	4.958	-0.003	97	3317823	200.0	207.4	
50 1,1-Dichloroethane	63	4.958	4.958	0.000	97	1252060	100.0	98.7	
56 2,2-Dichloropropane	77	5.456	5.456	0.000	89	943359	100.0	97.8	
57 2-Butanone (MEK)	43	5.482	5.482	0.000	100	1983972	500.0	475.7	
58 cis-1,2-Dichloroethene	96	5.482	5.482	0.000	77	815922	100.0	98.9	
60 Chlorobromomethane	128	5.717	5.714	0.003	94	441848	100.0	100.9	
61 Tetrahydrofuran	42	5.726	5.730	-0.004	87	482631	200.0	189.1	
62 Chloroform	83	5.758	5.759	-0.001	92	1378587	100.0	92.5	
64 1,1,1-Trichloroethane	97	5.903	5.903	0.000	97	1324921	100.0	99.6	
65 Cyclohexane	56	5.922	5.923	-0.001	90	1161320	100.0	95.0	
66 Carbon tetrachloride	117	6.038	6.038	0.000	96	1228000	100.0	98.4	
67 1,1-Dichloropropene	75	6.038	6.038	0.000	93	993115	100.0	98.0	
69 Isobutyl alcohol	43	6.135	6.135	0.000	94	927578	2500.0	2679.9	
70 Benzene	78	6.247	6.244	0.003	98	2771809	100.0	97.0	
72 1,2-Dichloroethane	62	6.299	6.299	0.000	98	1206073	100.0	99.2	
73 n-Heptane	43	6.340	6.337	0.003	91	912606	100.0	93.6	
75 Trichloroethene	95	6.813	6.813	0.000	97	813663	100.0	99.5	
76 Methylcyclohexane	83	6.945	6.945	0.000	91	1153762	100.0	99.1	
77 1,2-Dichloropropane	63	7.057	7.058	-0.001	92	717707	100.0	100.1	
81 1,4-Dioxane	88	7.160	7.164	-0.004	96	130081	2000.0	1957.9	
82 Dibromomethane	93	7.199	7.199	0.000	92	525194	100.0	102.6	
83 Dichlorobromomethane	83	7.318	7.318	0.000	99	1132163	100.0	103.3	
84 2-Chloroethyl vinyl ether	63	7.536	7.540	-0.004	94	515370	100.0	102.9	
85 cis-1,3-Dichloropropene	75	7.717	7.717	0.000	95	1299547	100.0	103.6	
87 4-Methyl-2-pentanone (MIBK)	43	7.819	7.820	-0.001	96	4116192	500.0	478.5	
88 Toluene	92	8.016	8.016	0.000	98	1975420	100.0	98.0	
90 Ethyl methacrylate	69	8.244	8.244	0.000	89	1051714	100.0	107.7	
91 trans-1,3-Dichloropropene	75	8.257	8.257	0.000	98	1309706	100.0	106.0	
93 1,1,2-Trichloroethane	83	8.462	8.463	-0.001	93	580063	100.0	101.0	
94 Tetrachloroethene	166	8.553	8.553	-0.001	98	937824	100.0	99.2	
95 1,3-Dichloropropane	76	8.636	8.636	0.000	94	1195396	100.0	99.2	
96 2-Hexanone	43	8.643	8.643	0.000	96	3127748	500.0	488.9	
98 Chlorodibromomethane	129	8.887	8.884	0.003	89	970603	100.0	105.3	
101 Ethylene Dibromide	107	9.022	9.022	0.000	99	806140	100.0	103.6	
103 Chlorobenzene	112	9.475	9.475	0.000	95	2289904	100.0	98.0	
104 Ethylbenzene	91	9.533	9.533	0.000	98	3833155	100.0	97.6	
105 1,1,1,2-Tetrachloroethane	131	9.552	9.556	-0.004	94	919898	100.0	103.1	
106 m-Xylene & p-Xylene	106	9.649	9.649	0.000	99	1521492	100.0	98.4	
107 o-Xylene	106	10.089	10.090	-0.001	97	1501595	100.0	101.5	
109 Styrene	104	10.112	10.112	0.000	95	2622614	100.0	102.9	
110 Bromoform	173	10.388	10.389	-0.001	97	743715	100.0	110.0	
111 Isopropylbenzene	105	10.437	10.437	0.000	96	4004839	100.0	101.2	
112 1,1,2,2-Tetrachloroethane	83	10.813	10.813	0.000	96	1014300	100.0	99.9	
113 Bromobenzene	156	10.823	10.823	0.000	92	1067918	100.0	102.0	
114 N-Propylbenzene	91	10.845	10.845	0.000	99	4582368	100.0	100.1	
115 trans-1,4-Dichloro-2-butene	53	10.855	10.855	0.000	82	358586	100.0	102.3	
116 1,2,3-Trichloropropane	110	10.868	10.868	0.000	84	361039	100.0	98.1	
117 2-Chlorotoluene	126	10.977	10.977	0.000	96	948047	100.0	101.5	
118 1,3,5-Trimethylbenzene	105	10.999	11.000	-0.001	94	3447640	100.0	100.6	
119 4-Chlorotoluene	91	11.080	11.077	0.003	98	2947778	100.0	99.4	
120 tert-Butylbenzene	134	11.315	11.315	-0.001	92	751808	100.0	104.5	
121 1,2,4-Trimethylbenzene	105	11.366	11.366	0.000	97	3581073	100.0	101.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	11.514	11.514	0.000	94	4210829	100.0	101.2	
123 4-Isopropyltoluene	119	11.633	11.630	0.003	97	3865233	100.0	101.6	
124 1,3-Dichlorobenzene	146	11.678	11.678	0.000	98	2020241	100.0	99.6	
126 1,4-Dichlorobenzene	146	11.758	11.758	0.000	95	2081497	100.0	99.4	
127 n-Butylbenzene	91	11.996	11.996	0.000	98	3338067	100.0	102.3	
128 1,2-Dichlorobenzene	146	12.099	12.099	0.000	98	1973387	100.0	102.4	
129 1,2-Dibromo-3-Chloropropane	75	12.774	12.774	0.000	89	246961	100.0	102.3	
130 1,2,4-Trichlorobenzene	180	13.443	13.443	0.000	95	1569375	100.0	105.6	
131 Hexachlorobutadiene	225	13.533	13.530	0.003	96	774400	100.0	104.5	
132 Naphthalene	128	13.697	13.697	0.000	97	3851575	100.0	105.7	
133 1,2,3-Trichlorobenzene	180	13.922	13.922	0.000	96	1483504	100.0	107.2	
S 143 Xylenes, Total	1				0			199.9	
S 142 Total BTEX	1				0			492.5	
S 144 1,3-Dichloropropene, Total	1				0			209.6	
S 141 1,2-Dichloroethene, Total	1				0			199.8	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00199	Amount Added: 50.00	Units: uL	
GAS CORP mix_00437	Amount Added: 50.00	Units: uL	
L_8260_IS_00023	Amount Added: 2.00	Units: uL	Run Reagent
L_8260_SURR_00022	Amount Added: 2.00	Units: uL	Run Reagent

Report Date: 19-Jan-2021 11:29:01 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5856.D

Injection Date: 18-Jan-2021 18:02:50 Instrument ID: HP5977L

Lims ID: IC 7

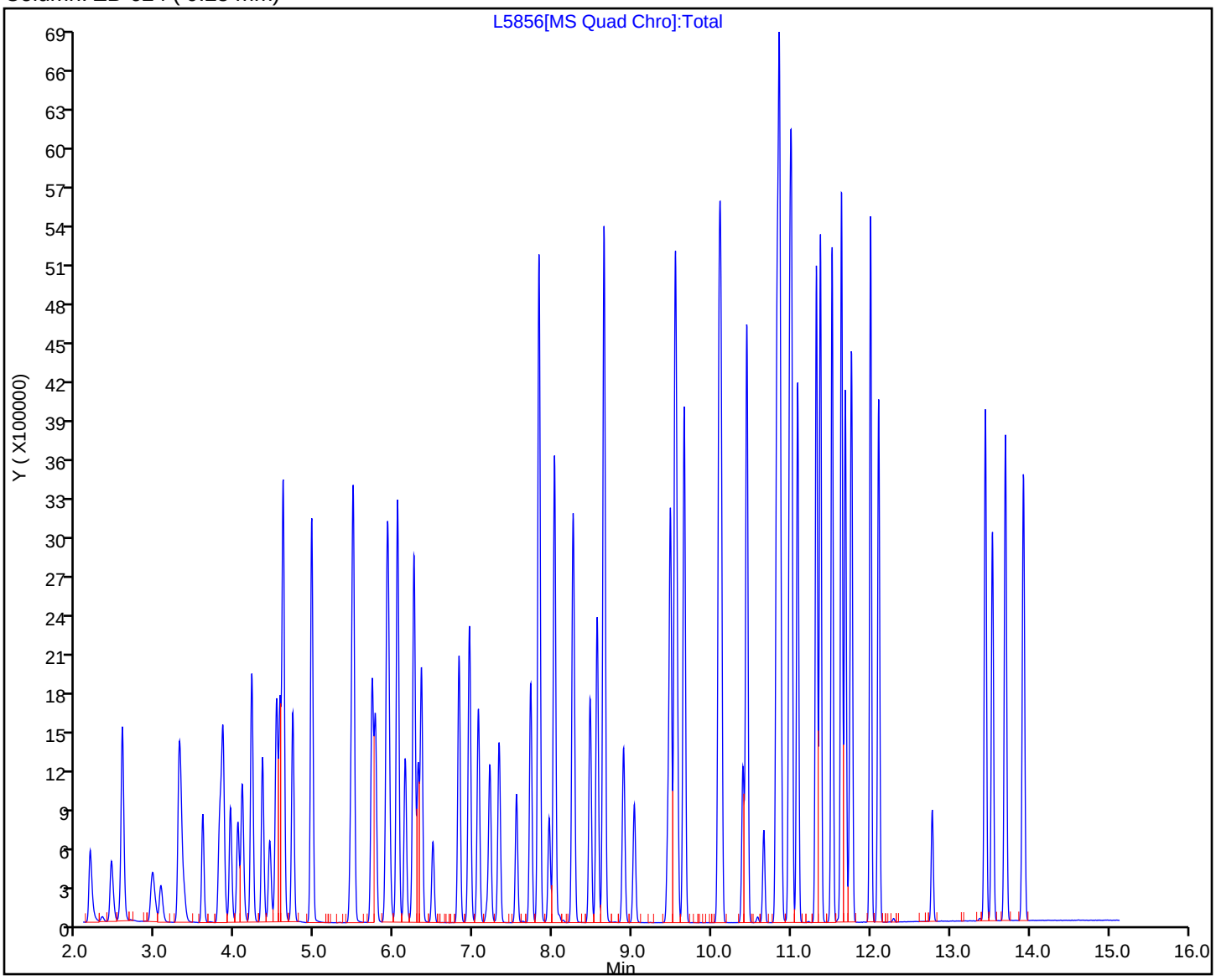
Client ID:

Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 12

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Calibration / Dichlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

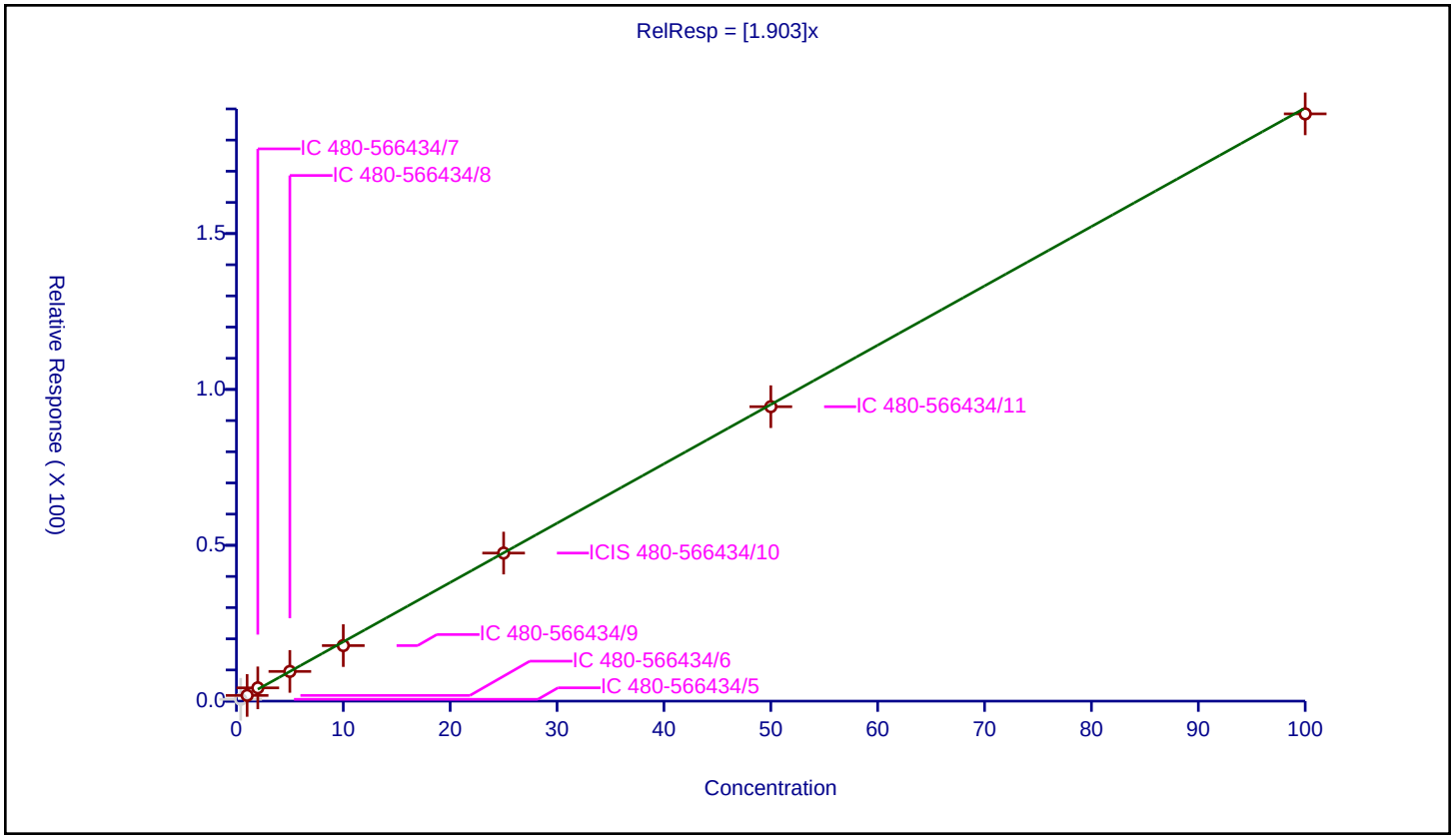
Curve Coefficients

Intercept:	0
Slope:	1.903

Error Coefficients

Standard Error:	450000
Relative Standard Error:	5.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.585572	25.0	131410.0	1.46393	N
2	IC 480-566434/6	1.0	1.830203	25.0	127882.0	1.830203	Y
3	IC 480-566434/7	2.0	4.258148	25.0	125436.0	2.129074	Y
4	IC 480-566434/8	5.0	9.533625	25.0	123838.0	1.906725	Y
5	IC 480-566434/9	10.0	17.820179	25.0	127343.0	1.782018	Y
6	ICIS 480-566434/10	25.0	47.504377	25.0	123376.0	1.900175	Y
7	IC 480-566434/11	50.0	94.465707	25.0	127112.0	1.889314	Y
8	IC 480-566434/12	100.0	188.410204	25.0	127183.0	1.884102	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

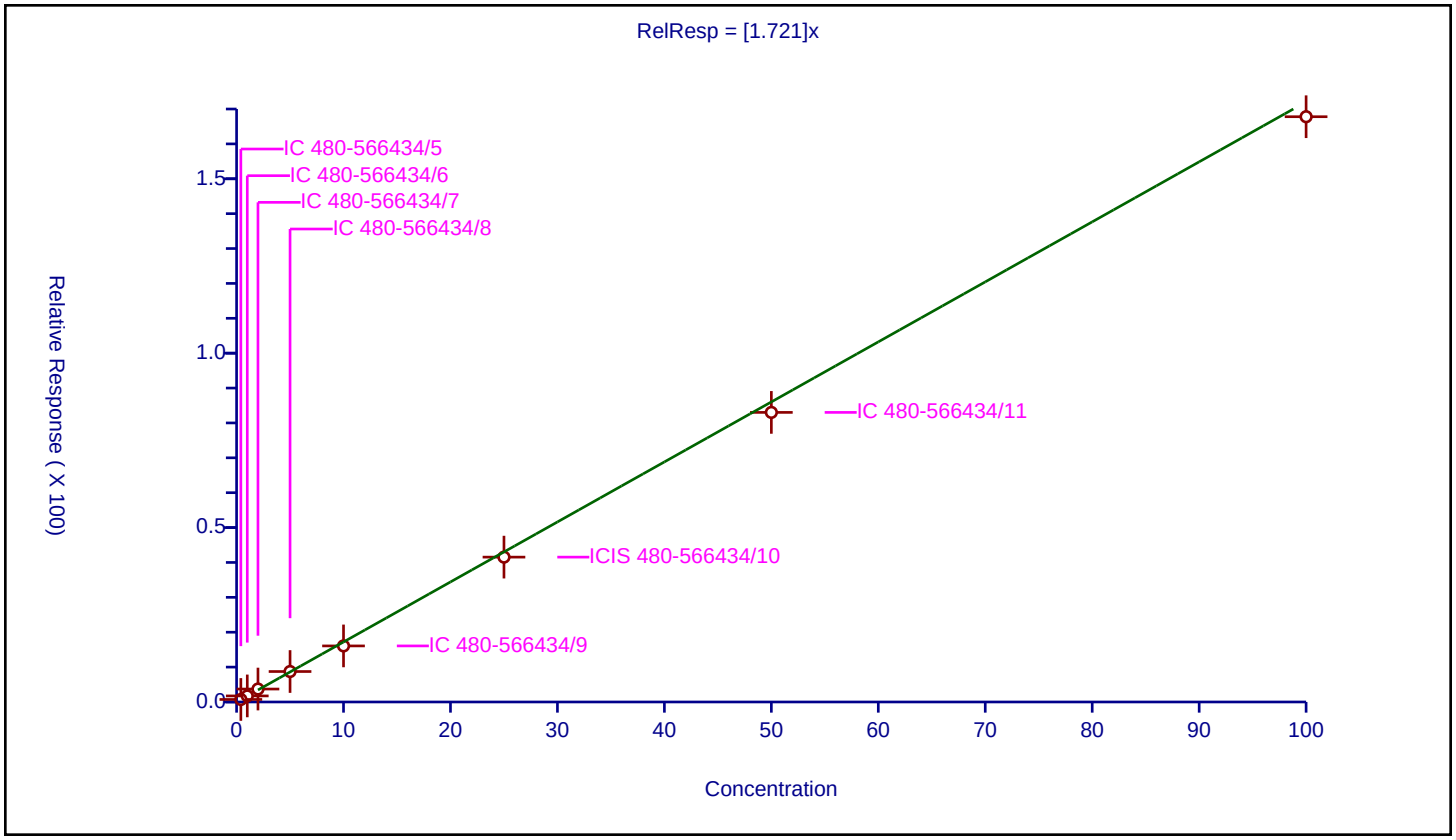
Curve Coefficients

Intercept:	0
Slope:	1.721

Error Coefficients

Standard Error:	370000
Relative Standard Error:	4.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.724831	25.0	131410.0	1.812077	Y
2	IC 480-566434/6	1.0	1.742231	25.0	127882.0	1.742231	Y
3	IC 480-566434/7	2.0	3.711454	25.0	125436.0	1.855727	Y
4	IC 480-566434/8	5.0	8.73601	25.0	123838.0	1.747202	Y
5	IC 480-566434/9	10.0	16.077052	25.0	127343.0	1.607705	Y
6	ICIS 480-566434/10	25.0	41.53401	25.0	123376.0	1.66136	Y
7	IC 480-566434/11	50.0	83.021076	25.0	127112.0	1.660422	Y
8	IC 480-566434/12	100.0	167.792865	25.0	127183.0	1.677929	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

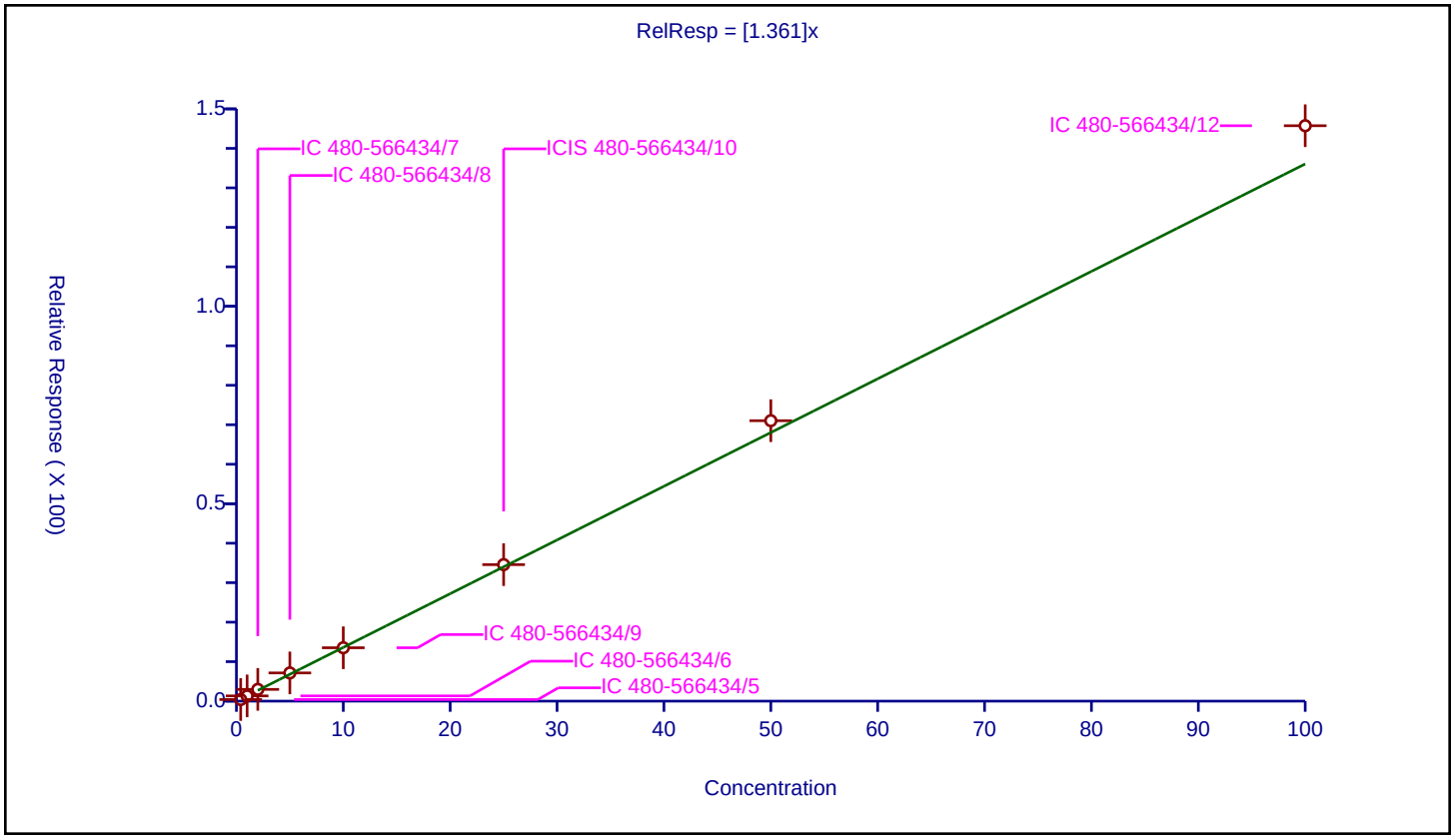
Curve Coefficients

Intercept:	0
Slope:	1.361

Error Coefficients

Standard Error:	320000
Relative Standard Error:	10.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.410357	25.0	131410.0	1.025892	Y
2	IC 480-566434/6	1.0	1.326027	25.0	127882.0	1.326027	Y
3	IC 480-566434/7	2.0	2.981202	25.0	125436.0	1.490601	Y
4	IC 480-566434/8	5.0	7.145424	25.0	123838.0	1.429085	Y
5	IC 480-566434/9	10.0	13.52057	25.0	127343.0	1.352057	Y
6	ICIS 480-566434/10	25.0	34.576619	25.0	123376.0	1.383065	Y
7	IC 480-566434/11	50.0	71.025159	25.0	127112.0	1.420503	Y
8	IC 480-566434/12	100.0	145.737441	25.0	127183.0	1.457374	Y



Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

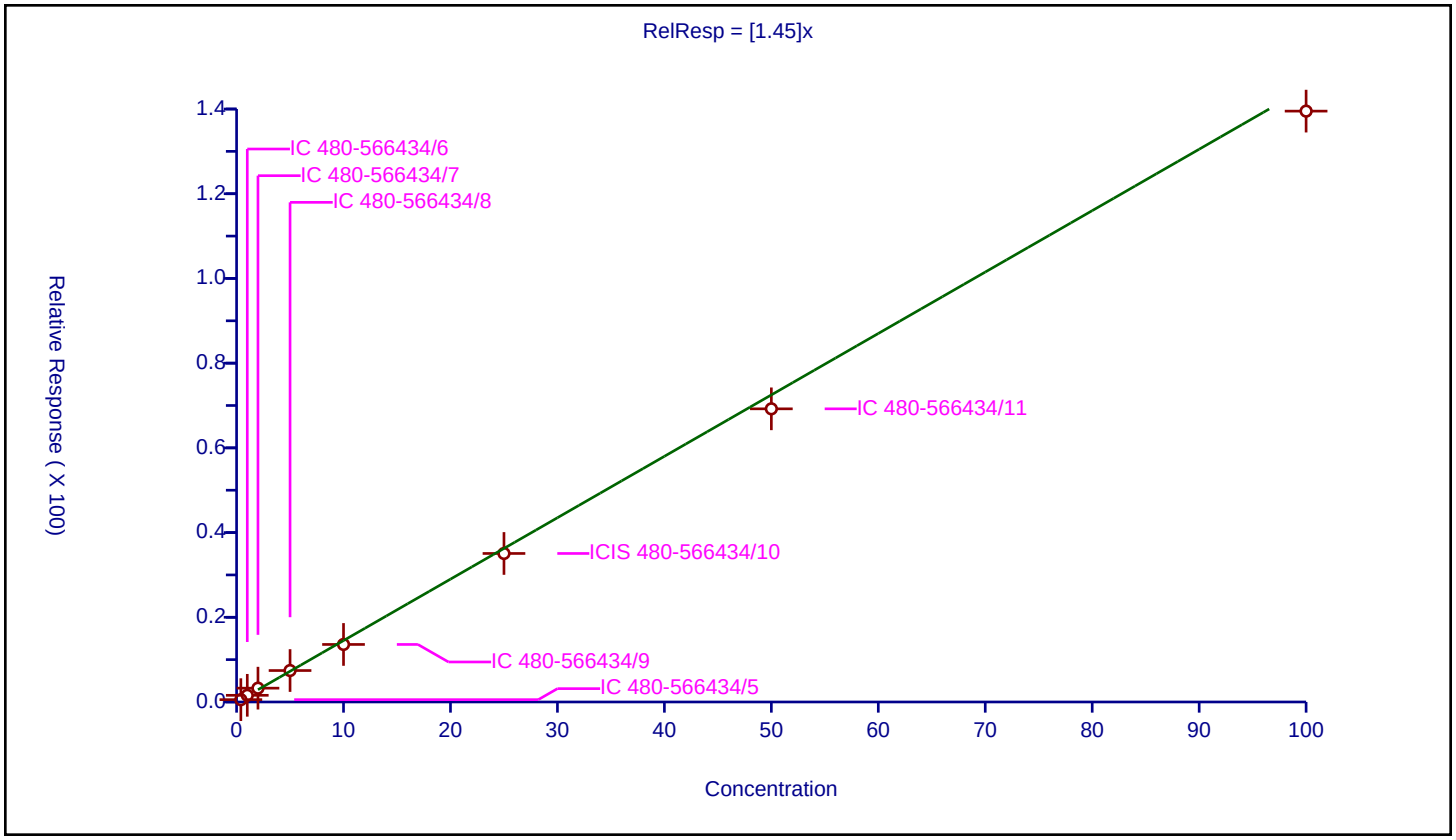
Curve Coefficients

Intercept:	0
Slope:	1.45

Error Coefficients

Standard Error:	308000
Relative Standard Error:	7.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.547713	25.0	131410.0	1.369283	Y
2	IC 480-566434/6	1.0	1.575085	25.0	127882.0	1.575085	Y
3	IC 480-566434/7	2.0	3.261823	25.0	125436.0	1.630911	Y
4	IC 480-566434/8	5.0	7.424014	25.0	123838.0	1.484803	Y
5	IC 480-566434/9	10.0	13.584767	25.0	127343.0	1.358477	Y
6	ICIS 480-566434/10	25.0	35.064559	25.0	123376.0	1.402582	Y
7	IC 480-566434/11	50.0	69.214748	25.0	127112.0	1.384295	Y
8	IC 480-566434/12	100.0	139.501938	25.0	127183.0	1.395019	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

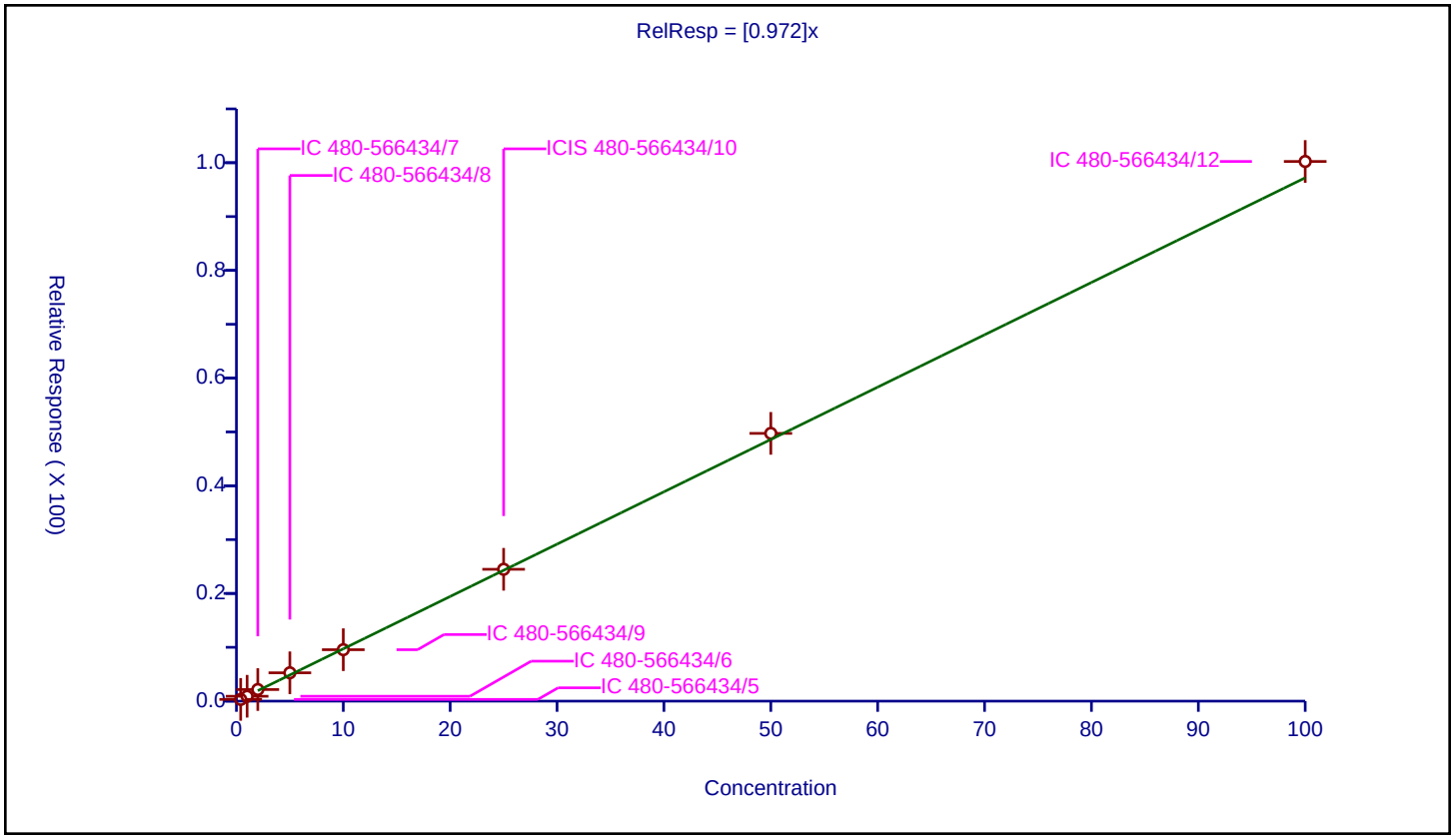
Curve Coefficients

Intercept:	0
Slope:	0.972

Error Coefficients

Standard Error:	221000
Relative Standard Error:	8.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.322654	25.0	131410.0	0.806636	Y
2	IC 480-566434/6	1.0	0.907477	25.0	127882.0	0.907477	Y
3	IC 480-566434/7	2.0	2.153289	25.0	125436.0	1.076645	Y
4	IC 480-566434/8	5.0	5.26676	25.0	123838.0	1.053352	Y
5	IC 480-566434/9	10.0	9.554118	25.0	127343.0	0.955412	Y
6	ICIS 480-566434/10	25.0	24.490784	25.0	123376.0	0.979631	Y
7	IC 480-566434/11	50.0	49.731536	25.0	127112.0	0.994631	Y
8	IC 480-566434/12	100.0	100.236077	25.0	127183.0	1.002361	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

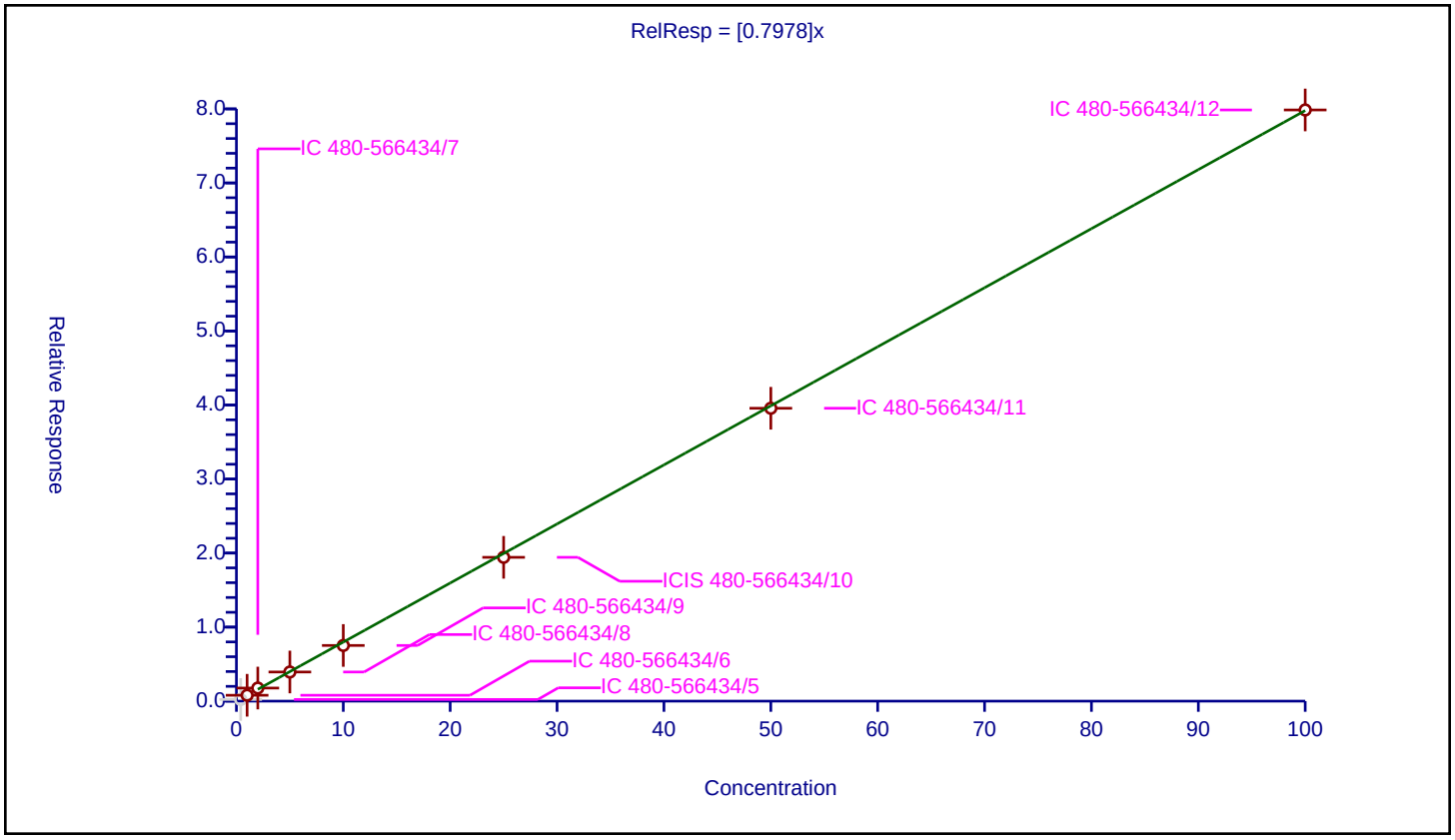
Curve Coefficients

Intercept:	0
Slope:	0.7978

Error Coefficients

Standard Error:	190000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.22582	25.0	131410.0	0.56455	N
2	IC 480-566434/6	1.0	0.792918	25.0	127882.0	0.792918	Y
3	IC 480-566434/7	2.0	1.770026	25.0	125436.0	0.885013	Y
4	IC 480-566434/8	5.0	3.936998	25.0	123838.0	0.7874	Y
5	IC 480-566434/9	10.0	7.521026	25.0	127343.0	0.752103	Y
6	ICIS 480-566434/10	25.0	19.42659	25.0	123376.0	0.777064	Y
7	IC 480-566434/11	50.0	39.562748	25.0	127112.0	0.791255	Y
8	IC 480-566434/12	100.0	79.857371	25.0	127183.0	0.798574	Y



Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

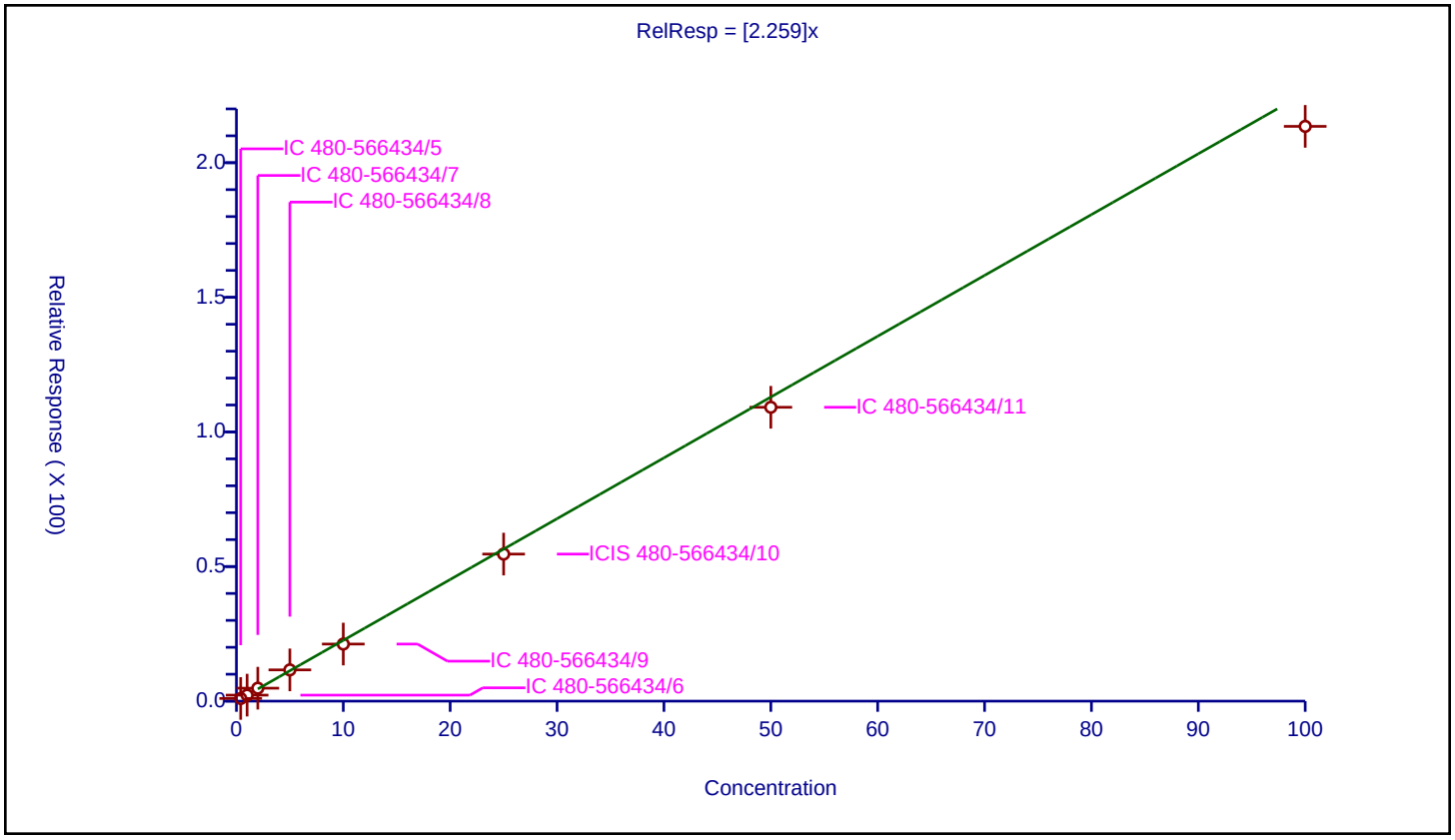
Curve Coefficients

Intercept:	0
Slope:	2.259

Error Coefficients

Standard Error:	474000
Relative Standard Error:	5.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.994978	25.0	131410.0	2.487444	Y
2	IC 480-566434/6	1.0	2.232918	25.0	127882.0	2.232918	Y
3	IC 480-566434/7	2.0	4.815802	25.0	125436.0	2.407901	Y
4	IC 480-566434/8	5.0	11.60609	25.0	123838.0	2.321218	Y
5	IC 480-566434/9	10.0	21.202775	25.0	127343.0	2.120278	Y
6	ICIS 480-566434/10	25.0	54.632181	25.0	123376.0	2.185287	Y
7	IC 480-566434/11	50.0	109.163966	25.0	127112.0	2.183279	Y
8	IC 480-566434/12	100.0	213.512419	25.0	127183.0	2.135124	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

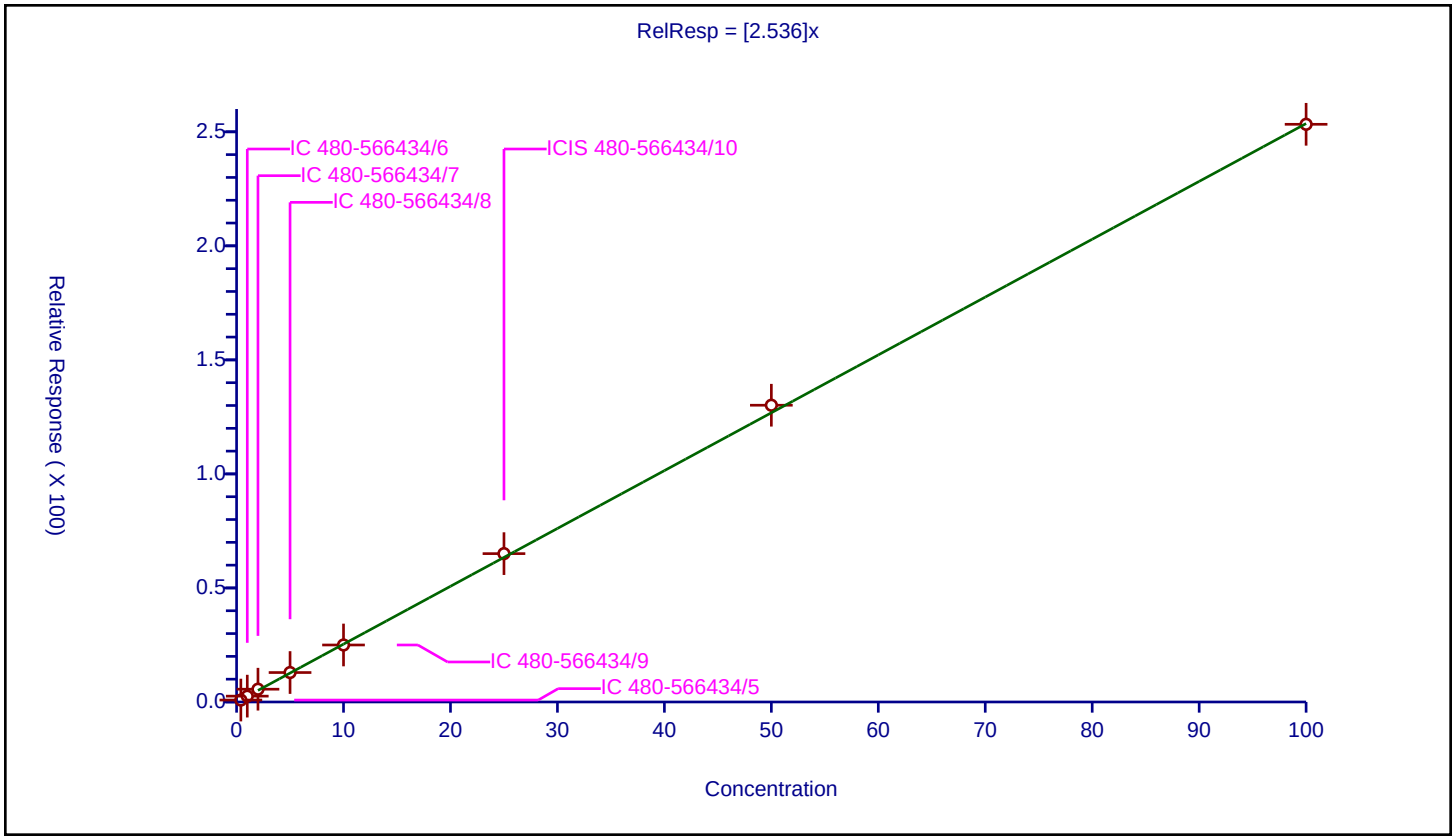
Curve Coefficients

Intercept:	0
Slope:	2.536

Error Coefficients

Standard Error:	563000
Relative Standard Error:	7.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.842972	25.0	131410.0	2.107431	Y
2	IC 480-566434/6	1.0	2.562714	25.0	127882.0	2.562714	Y
3	IC 480-566434/7	2.0	5.600864	25.0	125436.0	2.800432	Y
4	IC 480-566434/8	5.0	12.912232	25.0	123838.0	2.582446	Y
5	IC 480-566434/9	10.0	24.996074	25.0	127343.0	2.499607	Y
6	ICIS 480-566434/10	25.0	65.048105	25.0	123376.0	2.601924	Y
7	IC 480-566434/11	50.0	130.116747	25.0	127112.0	2.602335	Y
8	IC 480-566434/12	100.0	253.299183	25.0	127183.0	2.532992	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

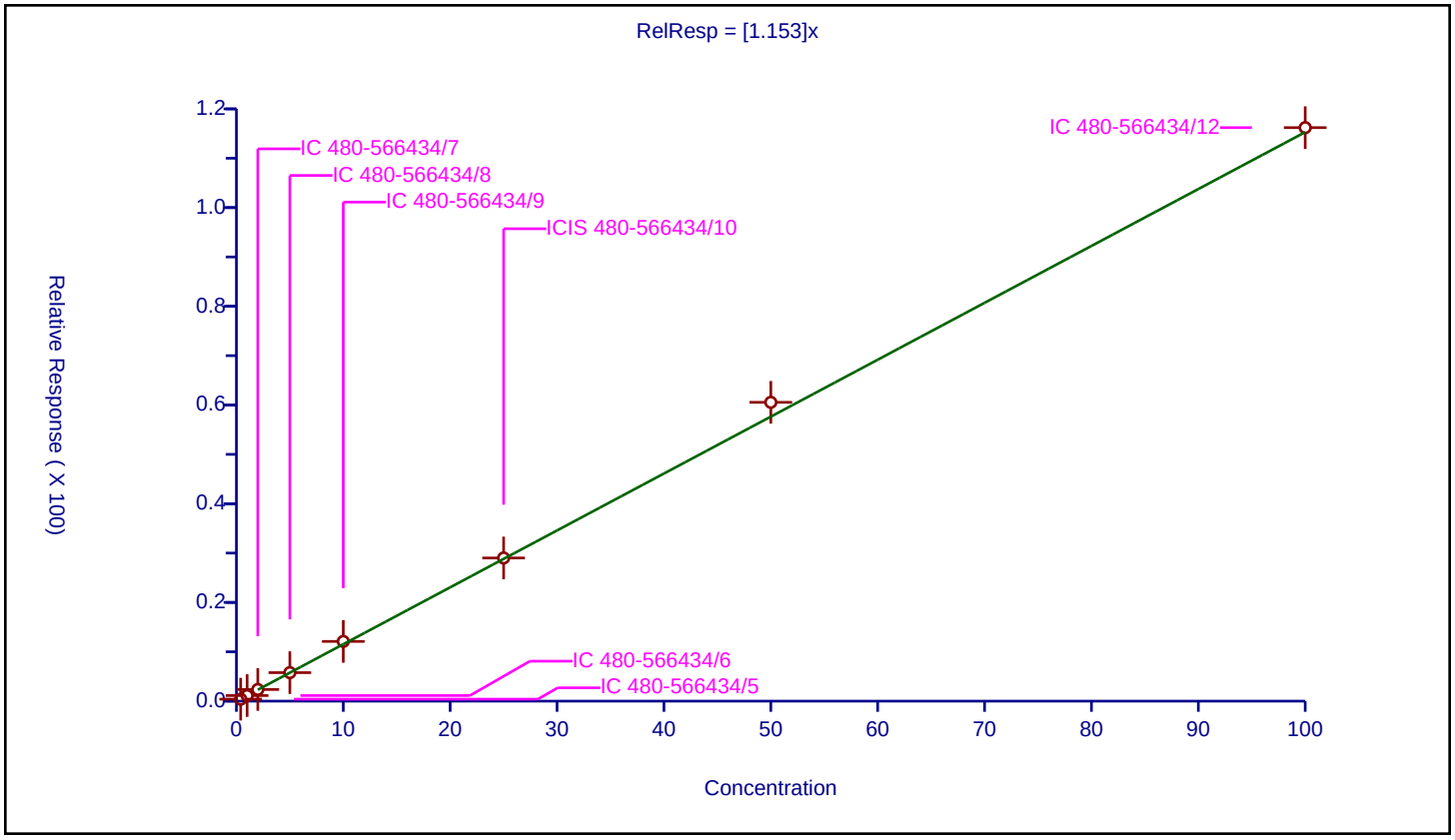
Curve Coefficients

Intercept:	0
Slope:	1.153

Error Coefficients

Standard Error:	259000
Relative Standard Error:	5.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.402176	25.0	131410.0	1.005441	Y
2	IC 480-566434/6	1.0	1.137963	25.0	127882.0	1.137963	Y
3	IC 480-566434/7	2.0	2.360367	25.0	125436.0	1.180184	Y
4	IC 480-566434/8	5.0	5.778921	25.0	123838.0	1.155784	Y
5	IC 480-566434/9	10.0	12.104317	25.0	127343.0	1.210432	Y
6	ICIS 480-566434/10	25.0	29.00787	25.0	123376.0	1.160315	Y
7	IC 480-566434/11	50.0	60.544441	25.0	127112.0	1.210889	Y
8	IC 480-566434/12	100.0	116.198509	25.0	127183.0	1.161985	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

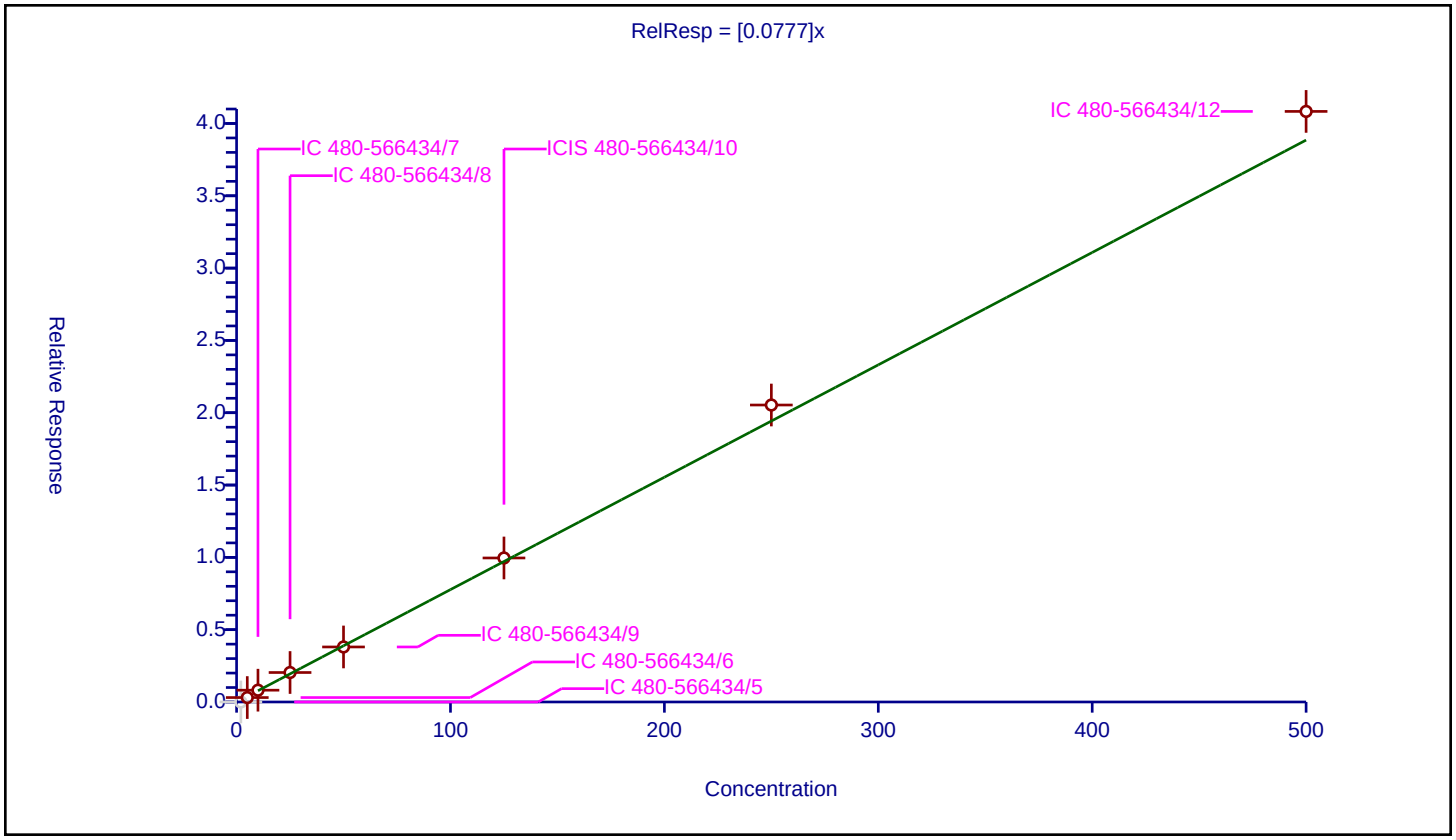
Curve Coefficients

Intercept:	0
Slope:	0.0777

Error Coefficients

Standard Error:	97400
Relative Standard Error:	9.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	2.0	0.0	25.0	131410.0	0.0	N
2	IC 480-566434/6	5.0	0.306337	25.0	127882.0	0.061267	Y
3	IC 480-566434/7	10.0	0.815555	25.0	125436.0	0.081556	Y
4	IC 480-566434/8	25.0	2.038147	25.0	123838.0	0.081526	Y
5	IC 480-566434/9	50.0	3.80547	25.0	127343.0	0.076109	Y
6	ICIS 480-566434/10	125.0	9.956961	25.0	123376.0	0.079656	Y
7	IC 480-566434/11	250.0	20.534057	25.0	127112.0	0.082136	Y
8	IC 480-566434/12	500.0	40.833287	25.0	127183.0	0.081667	Y



Calibration / 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

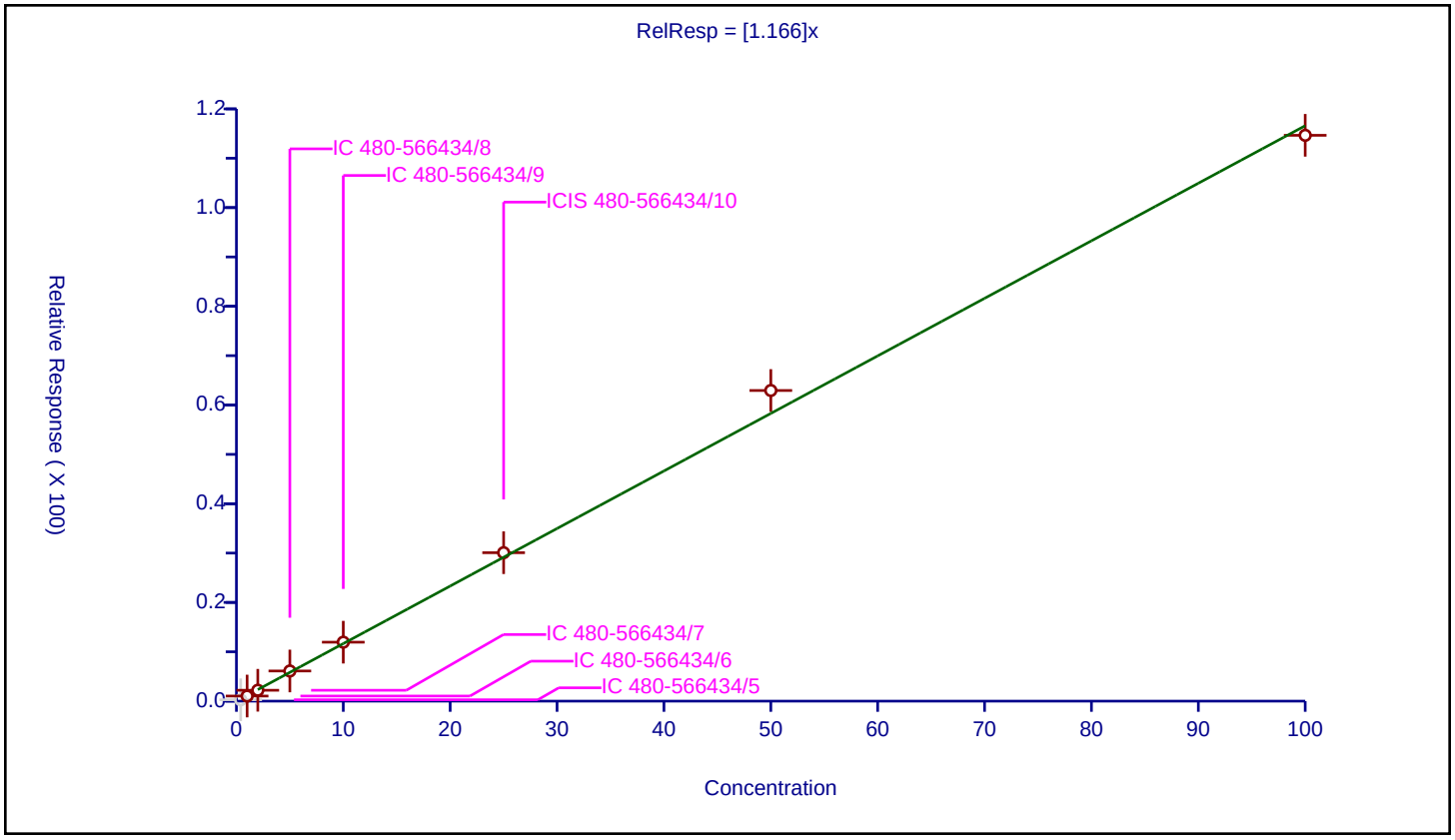
Curve Coefficients

Intercept:	0
Slope:	1.166

Error Coefficients

Standard Error:	280000
Relative Standard Error:	6.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.277757	25.0	131410.0	0.694392	N
2	IC 480-566434/6	1.0	1.03357	25.0	127882.0	1.03357	Y
3	IC 480-566434/7	2.0	2.206105	25.0	125436.0	1.103053	Y
4	IC 480-566434/8	5.0	6.1102	25.0	123838.0	1.22204	Y
5	IC 480-566434/9	10.0	11.942549	25.0	127343.0	1.194255	Y
6	ICIS 480-566434/10	25.0	30.078581	25.0	123376.0	1.203143	Y
7	IC 480-566434/11	50.0	62.93977	25.0	127112.0	1.258795	Y
8	IC 480-566434/12	100.0	114.647398	25.0	127183.0	1.146474	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

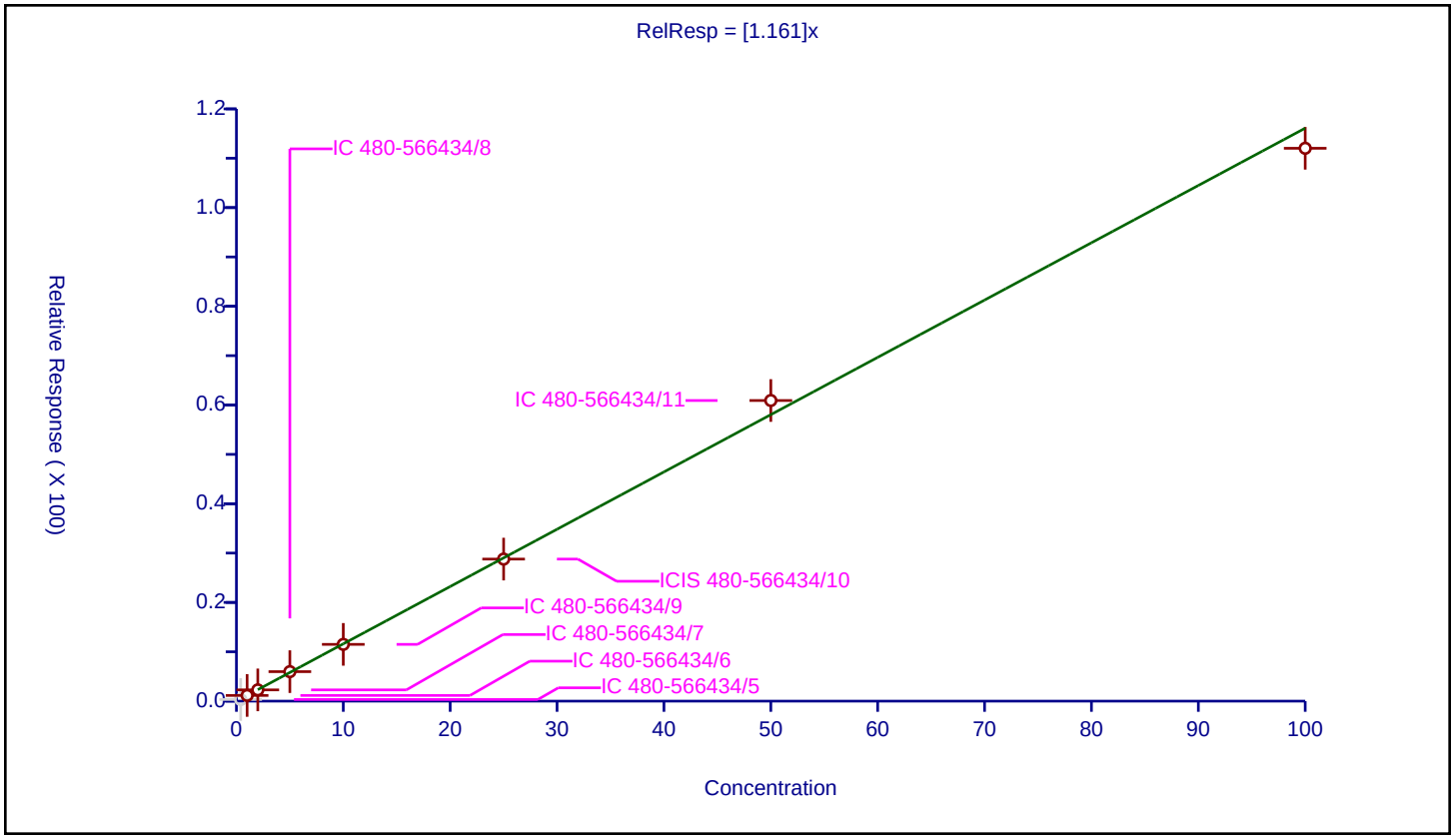
Curve Coefficients

Intercept:	0
Slope:	1.161

Error Coefficients

Standard Error:	272000
Relative Standard Error:	2.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.330264	25.0	131410.0	0.82566	N
2	IC 480-566434/6	1.0	1.152039	25.0	127882.0	1.152039	Y
3	IC 480-566434/7	2.0	2.278054	25.0	125436.0	1.139027	Y
4	IC 480-566434/8	5.0	5.978779	25.0	123838.0	1.195756	Y
5	IC 480-566434/9	10.0	11.501417	25.0	127343.0	1.150142	Y
6	ICIS 480-566434/10	25.0	28.780314	25.0	123376.0	1.151213	Y
7	IC 480-566434/11	50.0	60.91262	25.0	127112.0	1.218252	Y
8	IC 480-566434/12	100.0	112.019885	25.0	127183.0	1.120199	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

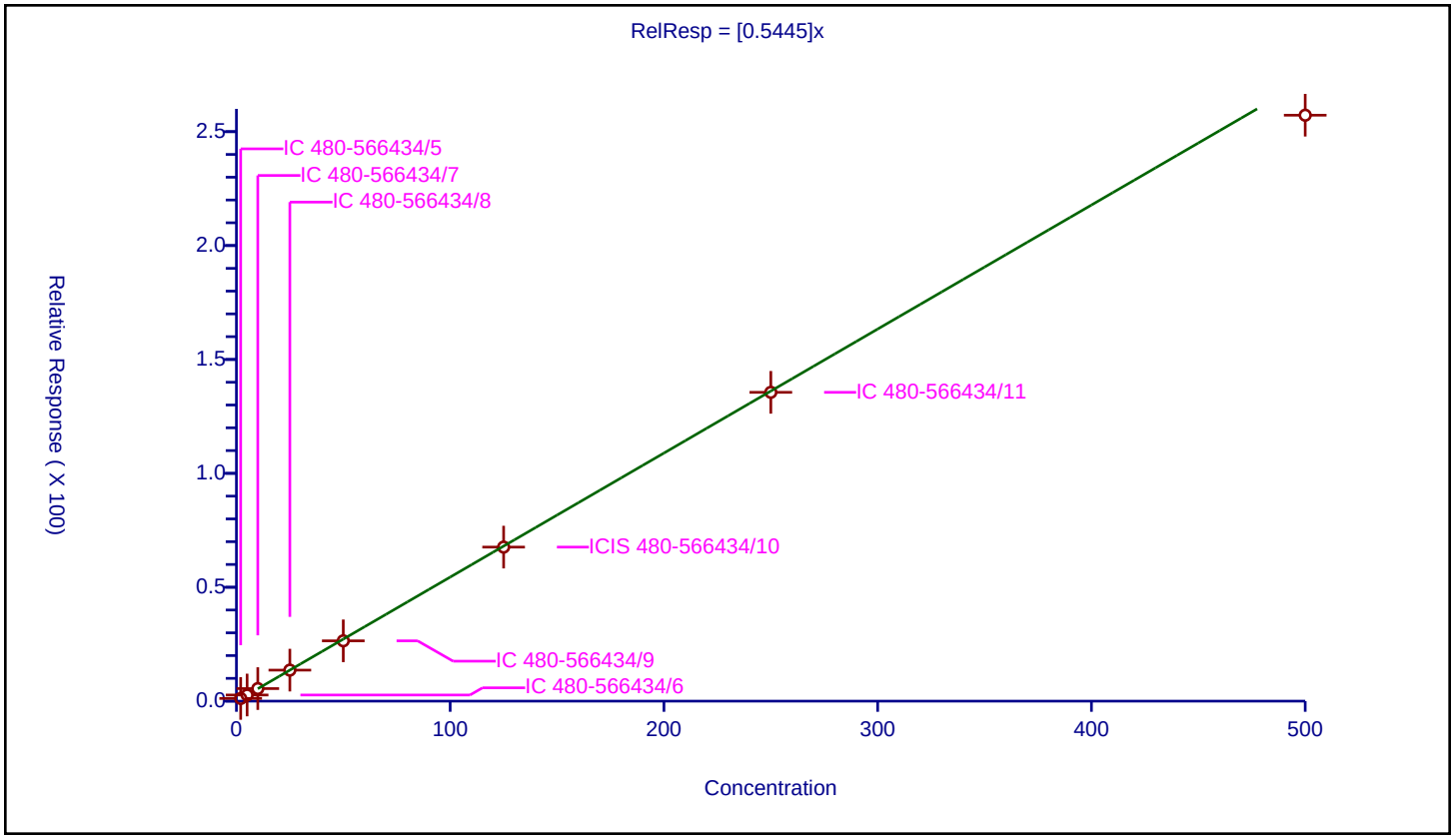
Curve Coefficients

Intercept:	0
Slope:	0.5445

Error Coefficients

Standard Error:	576000
Relative Standard Error:	4.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	2.0	1.186744	25.0	131410.0	0.593372	Y
2	IC 480-566434/6	5.0	2.697213	25.0	127882.0	0.539443	Y
3	IC 480-566434/7	10.0	5.510778	25.0	125436.0	0.551078	Y
4	IC 480-566434/8	25.0	13.619002	25.0	123838.0	0.54476	Y
5	IC 480-566434/9	50.0	26.481039	25.0	127343.0	0.529621	Y
6	ICIS 480-566434/10	125.0	67.625389	25.0	123376.0	0.541003	Y
7	IC 480-566434/11	250.0	135.570796	25.0	127112.0	0.542283	Y
8	IC 480-566434/12	500.0	257.223843	25.0	127183.0	0.514448	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

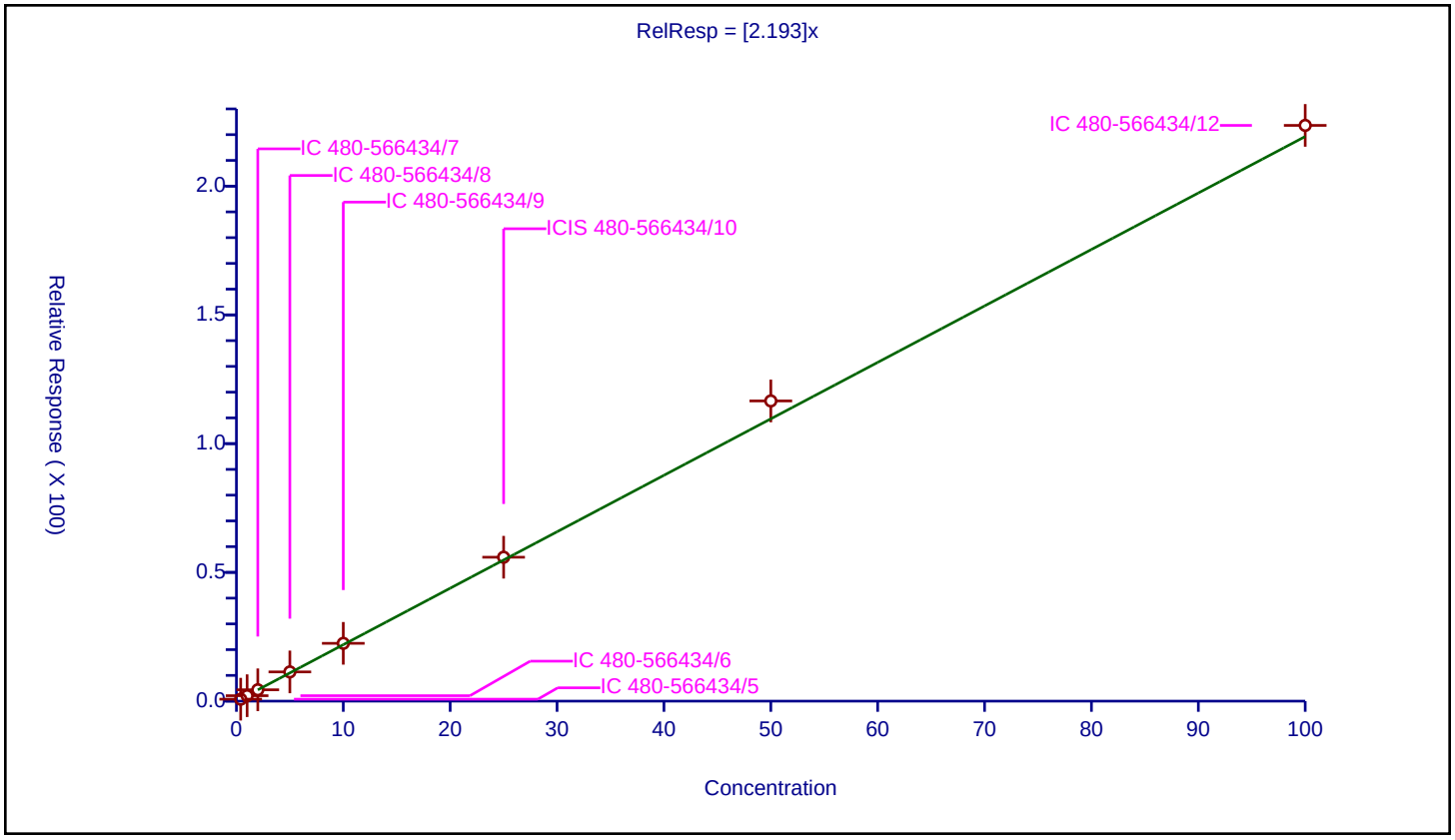
Curve Coefficients

Intercept:	0
Slope:	2.193

Error Coefficients

Standard Error:	498000
Relative Standard Error:	6.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.761928	25.0	131410.0	1.904821	Y
2	IC 480-566434/6	1.0	2.112494	25.0	127882.0	2.112494	Y
3	IC 480-566434/7	2.0	4.408822	25.0	125436.0	2.204411	Y
4	IC 480-566434/8	5.0	11.356167	25.0	123838.0	2.271233	Y
5	IC 480-566434/9	10.0	22.445482	25.0	127343.0	2.244548	Y
6	ICIS 480-566434/10	25.0	55.893367	25.0	123376.0	2.235735	Y
7	IC 480-566434/11	50.0	116.582423	25.0	127112.0	2.331648	Y
8	IC 480-566434/12	100.0	223.590614	25.0	127183.0	2.235906	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

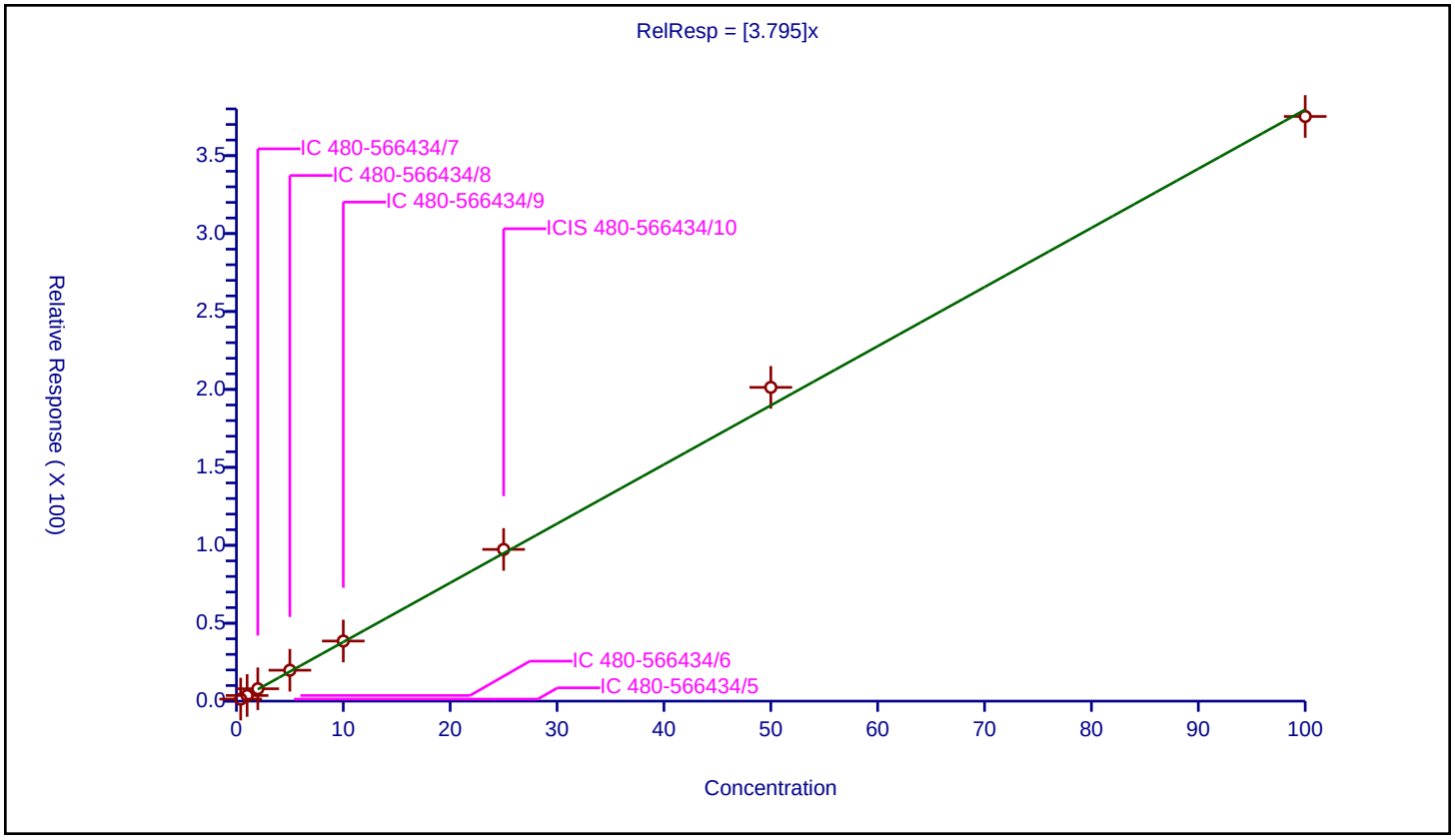
Curve Coefficients

Intercept:	0
Slope:	3.795

Error Coefficients

Standard Error:	843000
Relative Standard Error:	6.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	1.313446	25.0	131410.0	3.283616	Y
2	IC 480-566434/6	1.0	3.620916	25.0	127882.0	3.620916	Y
3	IC 480-566434/7	2.0	7.930339	25.0	125436.0	3.965169	Y
4	IC 480-566434/8	5.0	19.828526	25.0	123838.0	3.965705	Y
5	IC 480-566434/9	10.0	38.566313	25.0	127343.0	3.856631	Y
6	ICIS 480-566434/10	25.0	97.343892	25.0	123376.0	3.893756	Y
7	IC 480-566434/11	50.0	201.308688	25.0	127112.0	4.026174	Y
8	IC 480-566434/12	100.0	375.145263	25.0	127183.0	3.751453	Y



Calibration / 3-Chloro-1-propene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

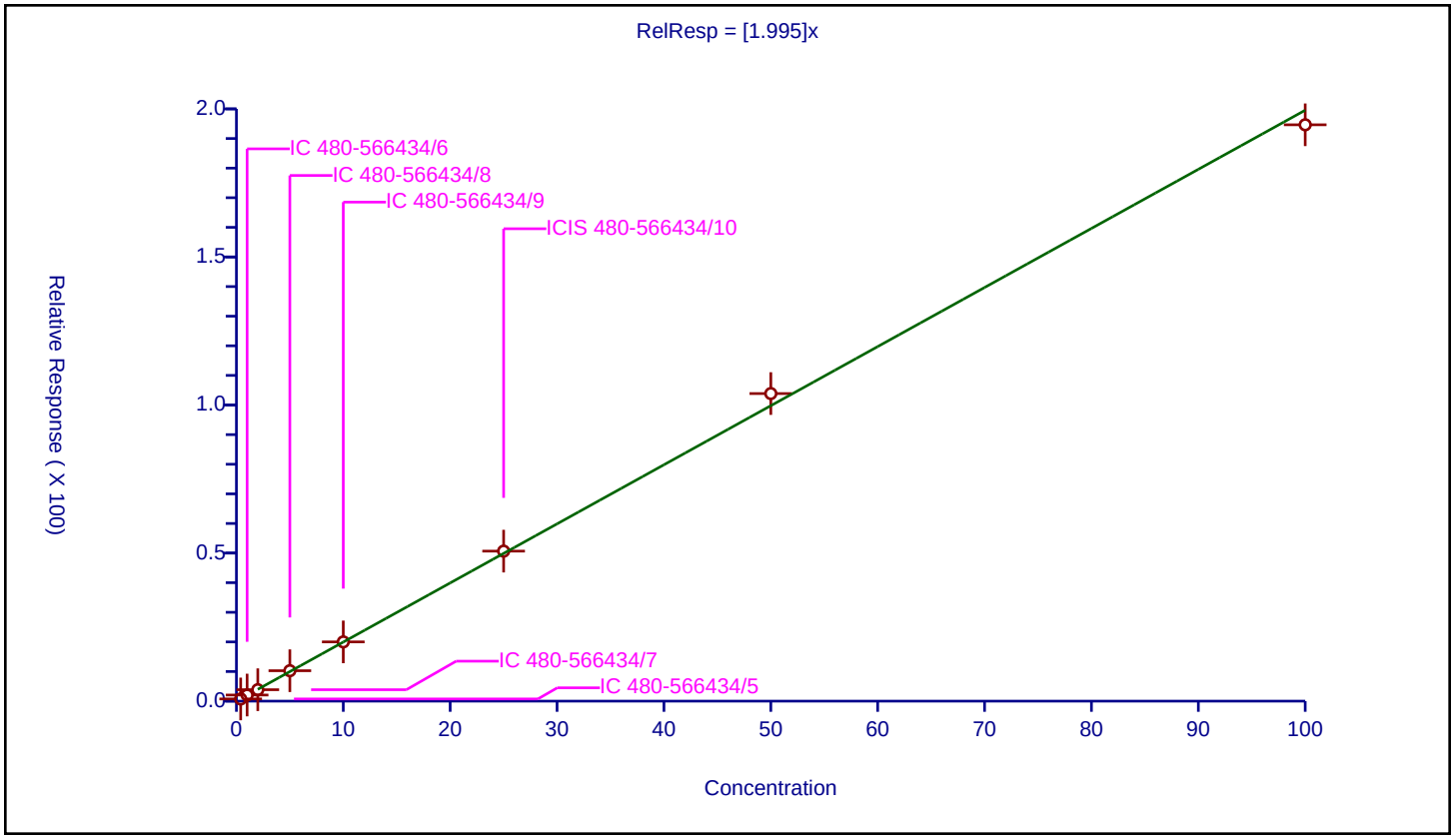
Curve Coefficients

Intercept:	0
Slope:	1.995

Error Coefficients

Standard Error:	437000
Relative Standard Error:	3.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.745948	25.0	131410.0	1.864869	Y
2	IC 480-566434/6	1.0	2.062644	25.0	127882.0	2.062644	Y
3	IC 480-566434/7	2.0	3.859538	25.0	125436.0	1.929769	Y
4	IC 480-566434/8	5.0	10.279761	25.0	123838.0	2.055952	Y
5	IC 480-566434/9	10.0	20.003652	25.0	127343.0	2.000365	Y
6	ICIS 480-566434/10	25.0	50.659772	25.0	123376.0	2.026391	Y
7	IC 480-566434/11	50.0	103.868439	25.0	127112.0	2.077369	Y
8	IC 480-566434/12	100.0	194.63411	25.0	127183.0	1.946341	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

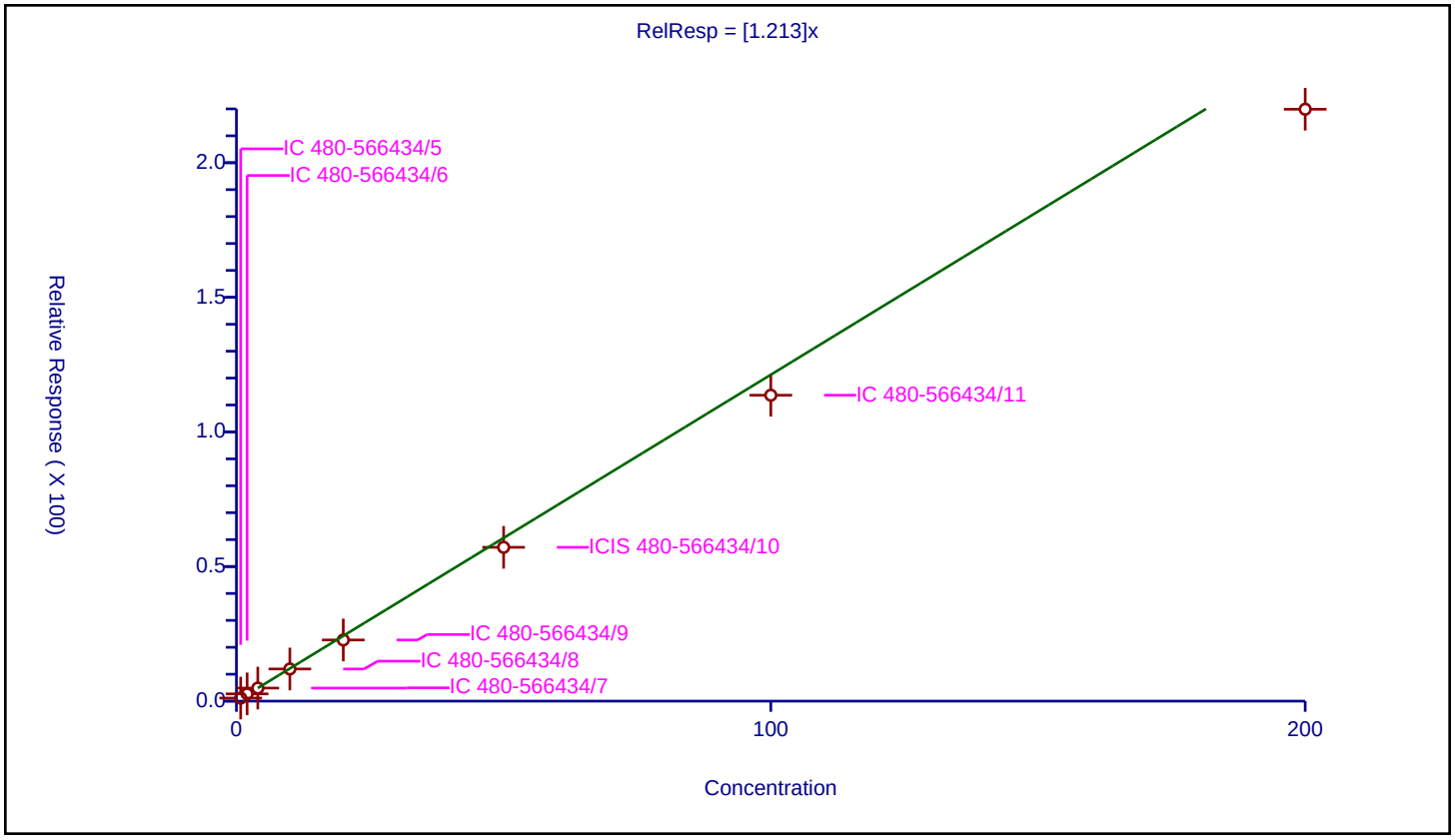
Curve Coefficients

Intercept:	0
Slope:	1.213

Error Coefficients

Standard Error:	490000
Relative Standard Error:	9.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.8	1.143368	25.0	131410.0	1.42921	Y
2	IC 480-566434/6	2.0	2.699754	25.0	127882.0	1.349877	Y
3	IC 480-566434/7	4.0	4.848688	25.0	125436.0	1.212172	Y
4	IC 480-566434/8	10.0	11.945445	25.0	123838.0	1.194544	Y
5	IC 480-566434/9	20.0	22.722097	25.0	127343.0	1.136105	Y
6	ICIS 480-566434/10	50.0	57.140368	25.0	123376.0	1.142807	Y
7	IC 480-566434/11	100.0	113.63935	25.0	127112.0	1.136393	Y
8	IC 480-566434/12	200.0	219.87058	25.0	127183.0	1.099353	Y



Calibration / Methylene Chloride

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

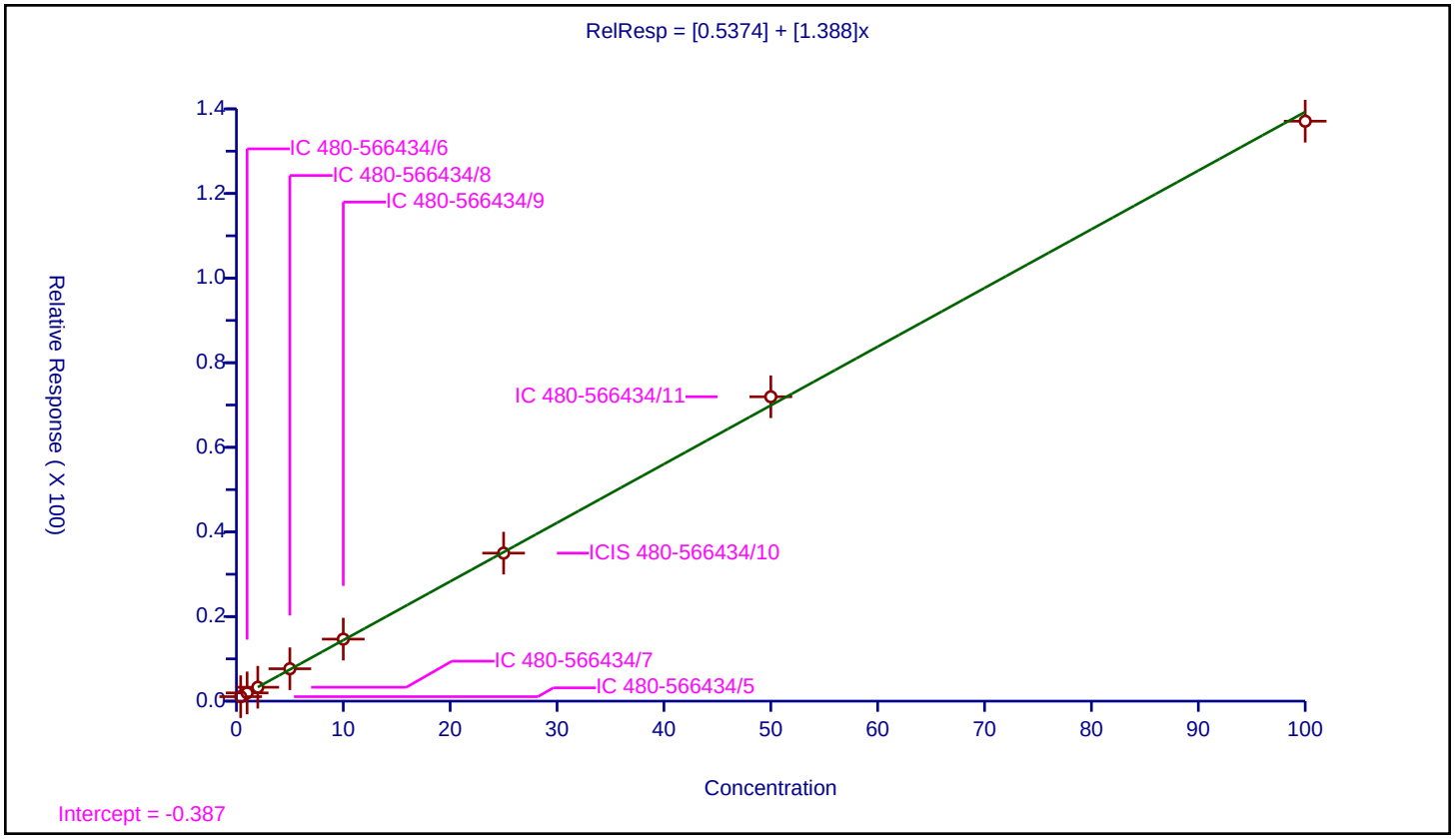
Curve Coefficients

Intercept:	0.5374
Slope:	1.388

Error Coefficients

Standard Error:	331000
Relative Standard Error:	3.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	1.059851	25.0	131410.0	2.649627	Y
2	IC 480-566434/6	1.0	1.951604	25.0	127882.0	1.951604	Y
3	IC 480-566434/7	2.0	3.280757	25.0	125436.0	1.640378	Y
4	IC 480-566434/8	5.0	7.657181	25.0	123838.0	1.531436	Y
5	IC 480-566434/9	10.0	14.661583	25.0	127343.0	1.466158	Y
6	ICIS 480-566434/10	25.0	34.988977	25.0	123376.0	1.399559	Y
7	IC 480-566434/11	50.0	71.954457	25.0	127112.0	1.439089	Y
8	IC 480-566434/12	100.0	137.090256	25.0	127183.0	1.370903	Y



Calibration / 2-Methyl-2-propanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

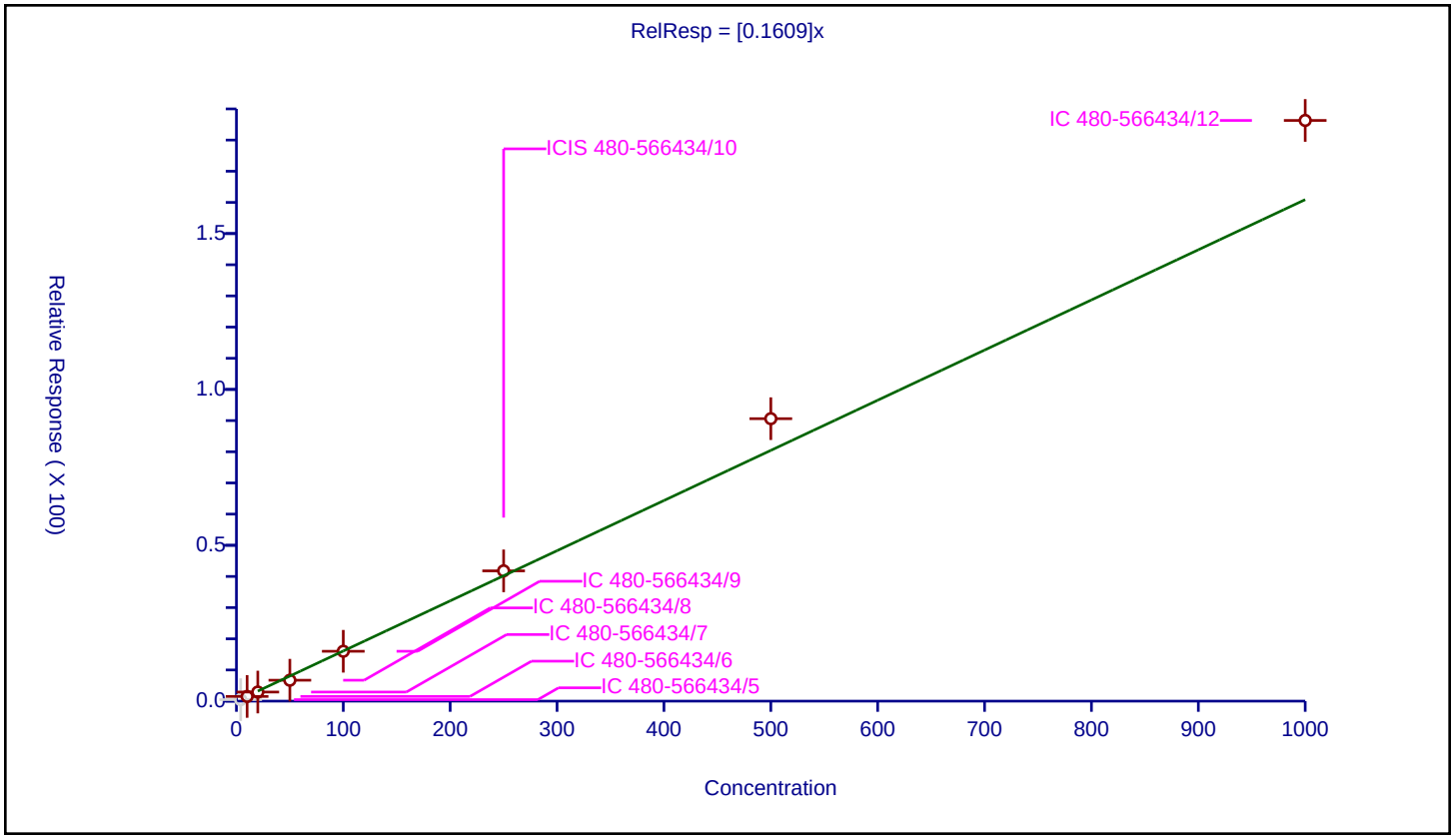
Curve Coefficients

Intercept:	0
Slope:	0.1609

Error Coefficients

Standard Error:	440000
Relative Standard Error:	11.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	4.0	0.478655	25.0	131410.0	0.119664	N
2	IC 480-566434/6	10.0	1.512136	25.0	127882.0	0.151214	Y
3	IC 480-566434/7	20.0	2.921609	25.0	125436.0	0.14608	Y
4	IC 480-566434/8	50.0	6.710582	25.0	123838.0	0.134212	Y
5	IC 480-566434/9	100.0	16.001861	25.0	127343.0	0.160019	Y
6	ICIS 480-566434/10	250.0	41.798445	25.0	123376.0	0.167194	Y
7	IC 480-566434/11	500.0	90.618313	25.0	127112.0	0.181237	Y
8	IC 480-566434/12	1000.0	186.288655	25.0	127183.0	0.186289	Y



Calibration / Methyl tert-butyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

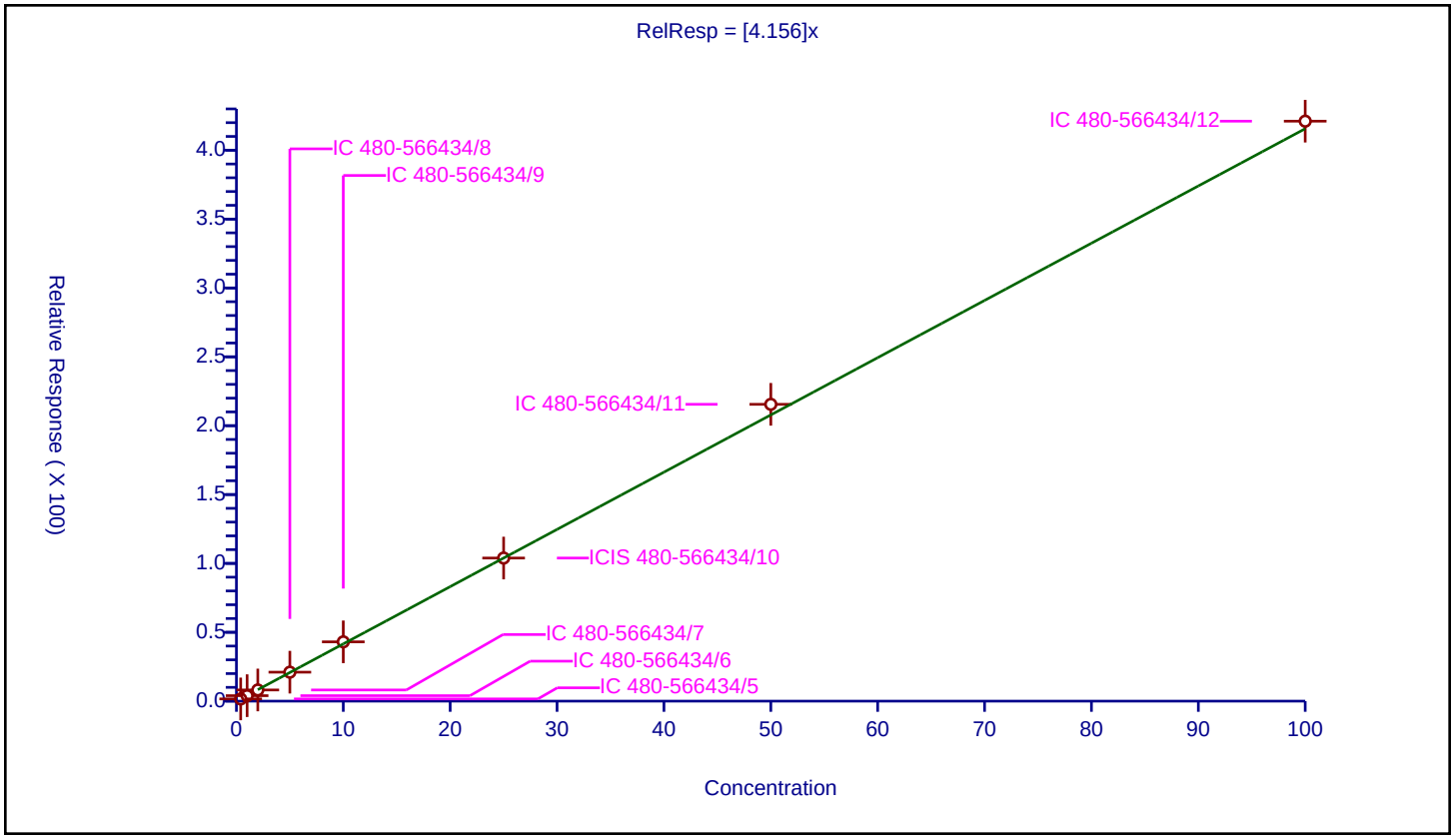
Curve Coefficients

Intercept:	0
Slope:	4.156

Error Coefficients

Standard Error:	934000
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	1.610608	25.0	131410.0	4.02652	Y
2	IC 480-566434/6	1.0	3.977299	25.0	127882.0	3.977299	Y
3	IC 480-566434/7	2.0	8.114297	25.0	125436.0	4.057149	Y
4	IC 480-566434/8	5.0	21.029692	25.0	123838.0	4.205938	Y
5	IC 480-566434/9	10.0	43.054192	25.0	127343.0	4.305419	Y
6	ICIS 480-566434/10	25.0	103.887101	25.0	123376.0	4.155484	Y
7	IC 480-566434/11	50.0	215.504437	25.0	127112.0	4.310089	Y
8	IC 480-566434/12	100.0	421.079468	25.0	127183.0	4.210795	Y



Calibration / trans-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

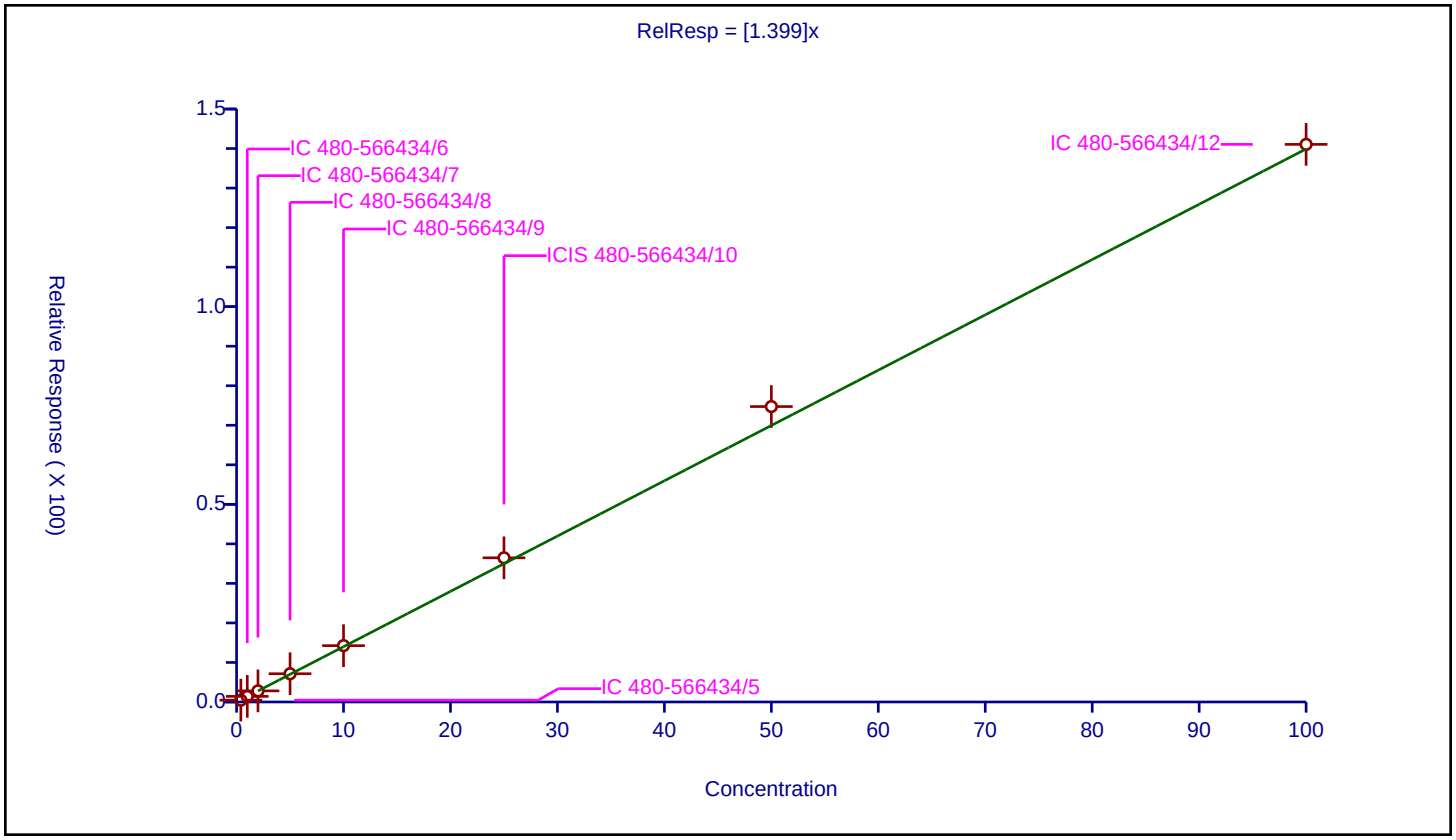
Curve Coefficients

Intercept:	0
Slope:	1.399

Error Coefficients

Standard Error:	316000
Relative Standard Error:	7.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.459059	25.0	131410.0	1.147649	Y
2	IC 480-566434/6	1.0	1.419864	25.0	127882.0	1.419864	Y
3	IC 480-566434/7	2.0	2.809401	25.0	125436.0	1.4047	Y
4	IC 480-566434/8	5.0	7.14926	25.0	123838.0	1.429852	Y
5	IC 480-566434/9	10.0	14.252845	25.0	127343.0	1.425284	Y
6	ICIS 480-566434/10	25.0	36.470221	25.0	123376.0	1.458809	Y
7	IC 480-566434/11	50.0	74.732126	25.0	127112.0	1.494643	Y
8	IC 480-566434/12	100.0	141.056588	25.0	127183.0	1.410566	Y



Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

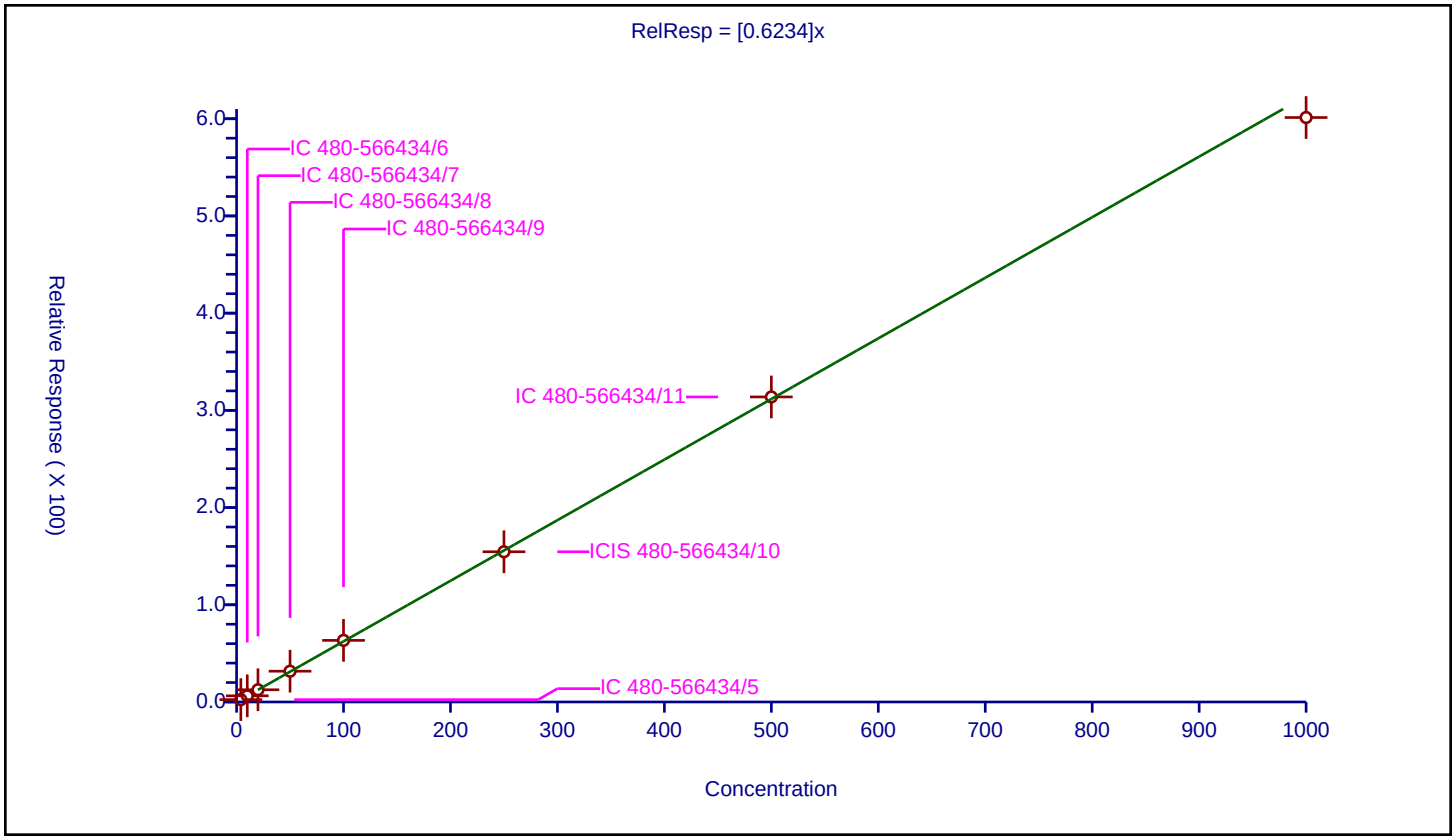
Curve Coefficients

Intercept:	0
Slope:	0.6234

Error Coefficients

Standard Error:	1340000
Relative Standard Error:	2.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	4.0	2.441024	25.0	131410.0	0.610256	Y
2	IC 480-566434/6	10.0	6.344912	25.0	127882.0	0.634491	Y
3	IC 480-566434/7	20.0	12.565372	25.0	125436.0	0.628269	Y
4	IC 480-566434/8	50.0	31.65769	25.0	123838.0	0.633154	Y
5	IC 480-566434/9	100.0	63.393748	25.0	127343.0	0.633937	Y
6	ICIS 480-566434/10	250.0	154.544239	25.0	123376.0	0.618177	Y
7	IC 480-566434/11	500.0	313.805345	25.0	127112.0	0.627611	Y
8	IC 480-566434/12	1000.0	601.241518	25.0	127183.0	0.601242	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

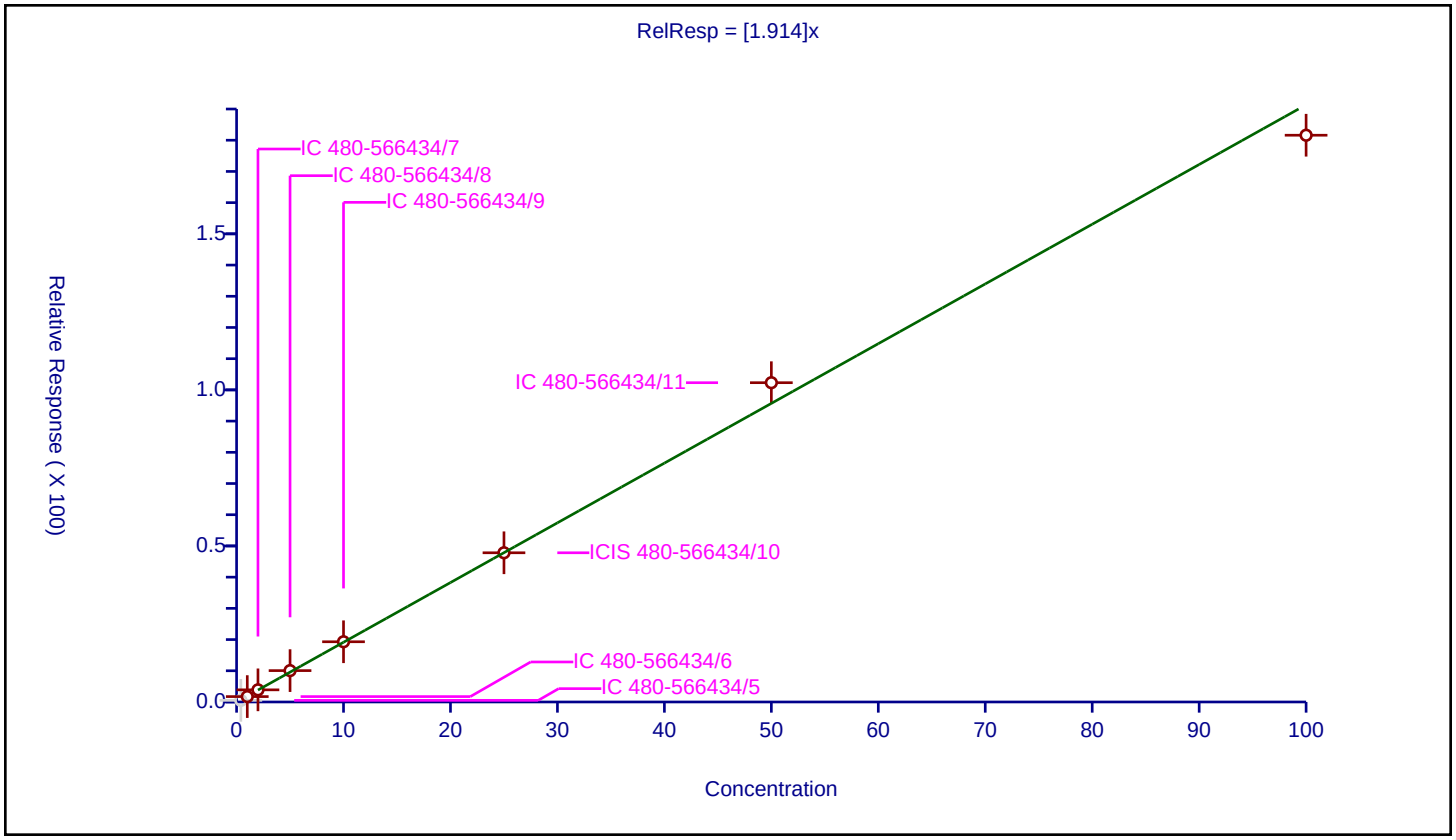
Curve Coefficients

Intercept:	0
Slope:	1.914

Error Coefficients

Standard Error:	446000
Relative Standard Error:	5.7
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.528118	25.0	131410.0	1.320295	N
2	IC 480-566434/6	1.0	1.732261	25.0	127882.0	1.732261	Y
3	IC 480-566434/7	2.0	3.894815	25.0	125436.0	1.947407	Y
4	IC 480-566434/8	5.0	10.052246	25.0	123838.0	2.010449	Y
5	IC 480-566434/9	10.0	19.298666	25.0	127343.0	1.929867	Y
6	ICIS 480-566434/10	25.0	47.811365	25.0	123376.0	1.912455	Y
7	IC 480-566434/11	50.0	102.310167	25.0	127112.0	2.046203	Y
8	IC 480-566434/12	100.0	181.60387	25.0	127183.0	1.816039	Y



Calibration / Vinyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

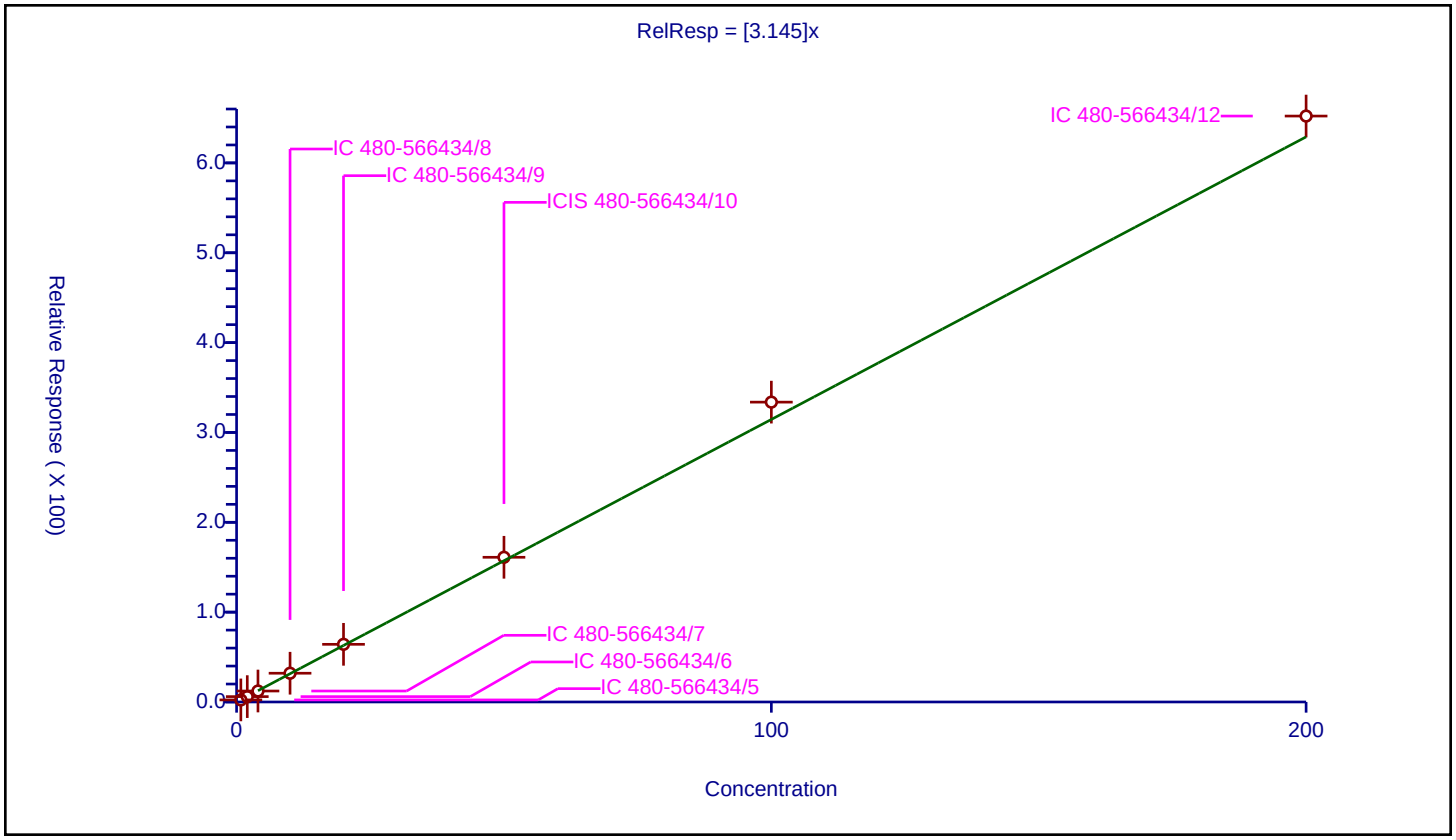
Curve Coefficients

Intercept:	0
Slope:	3.145

Error Coefficients

Standard Error:	1450000
Relative Standard Error:	4.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.8	2.308044	25.0	131410.0	2.885054	Y
2	IC 480-566434/6	2.0	5.985596	25.0	127882.0	2.992798	Y
3	IC 480-566434/7	4.0	12.208417	25.0	125436.0	3.052104	Y
4	IC 480-566434/8	10.0	32.002899	25.0	123838.0	3.20029	Y
5	IC 480-566434/9	20.0	64.196893	25.0	127343.0	3.209845	Y
6	ICIS 480-566434/10	50.0	161.06293	25.0	123376.0	3.221259	Y
7	IC 480-566434/11	100.0	333.756648	25.0	127112.0	3.337566	Y
8	IC 480-566434/12	200.0	652.175016	25.0	127183.0	3.260875	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

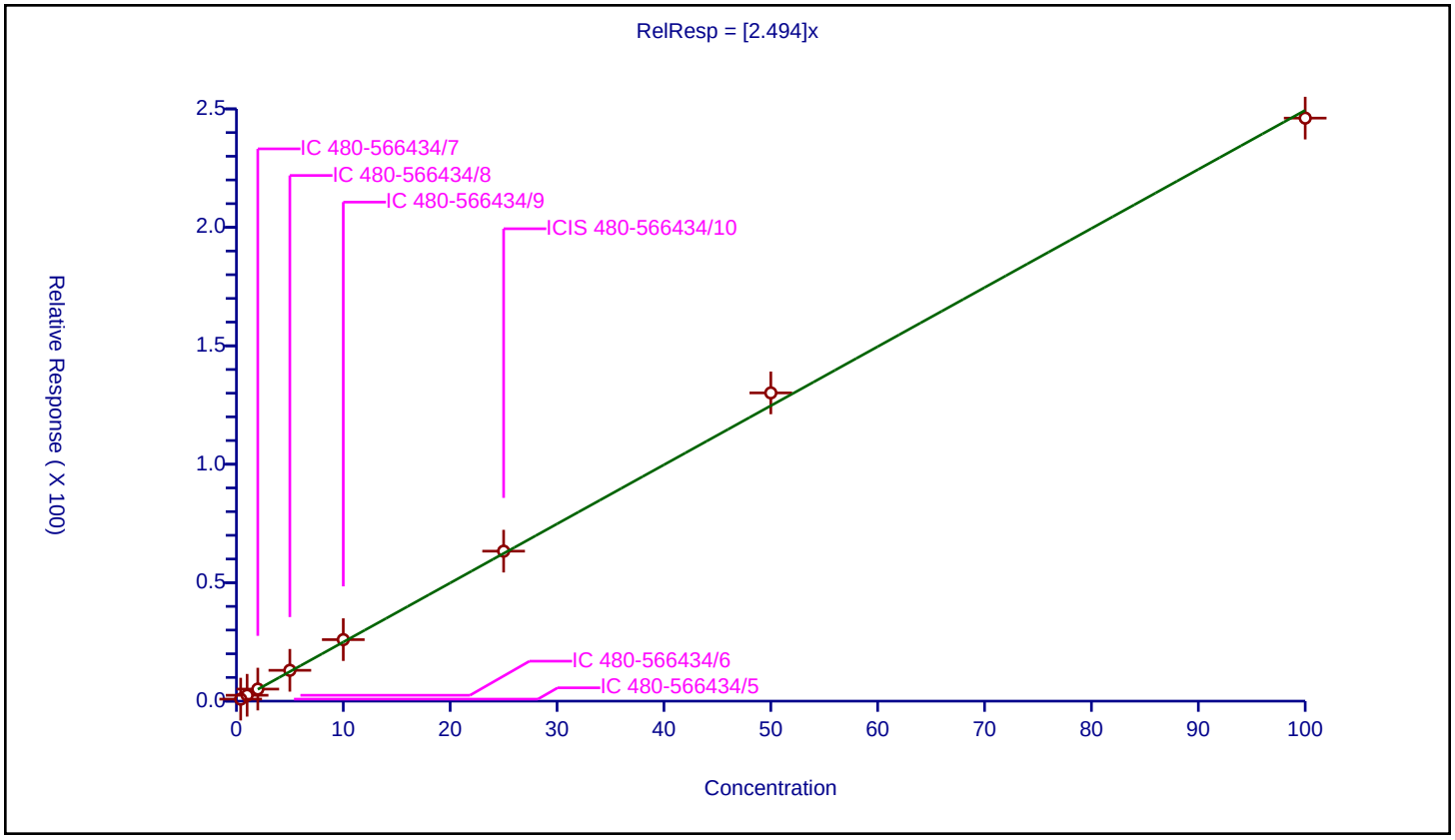
Curve Coefficients

Intercept:	0
Slope:	2.494

Error Coefficients

Standard Error:	551000
Relative Standard Error:	6.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.853626	25.0	131410.0	2.134065	Y
2	IC 480-566434/6	1.0	2.479825	25.0	127882.0	2.479825	Y
3	IC 480-566434/7	2.0	5.088451	25.0	125436.0	2.544226	Y
4	IC 480-566434/8	5.0	13.011555	25.0	123838.0	2.602311	Y
5	IC 480-566434/9	10.0	25.969233	25.0	127343.0	2.596923	Y
6	ICIS 480-566434/10	25.0	63.311544	25.0	123376.0	2.532462	Y
7	IC 480-566434/11	50.0	130.114977	25.0	127112.0	2.6023	Y
8	IC 480-566434/12	100.0	246.113867	25.0	127183.0	2.461139	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

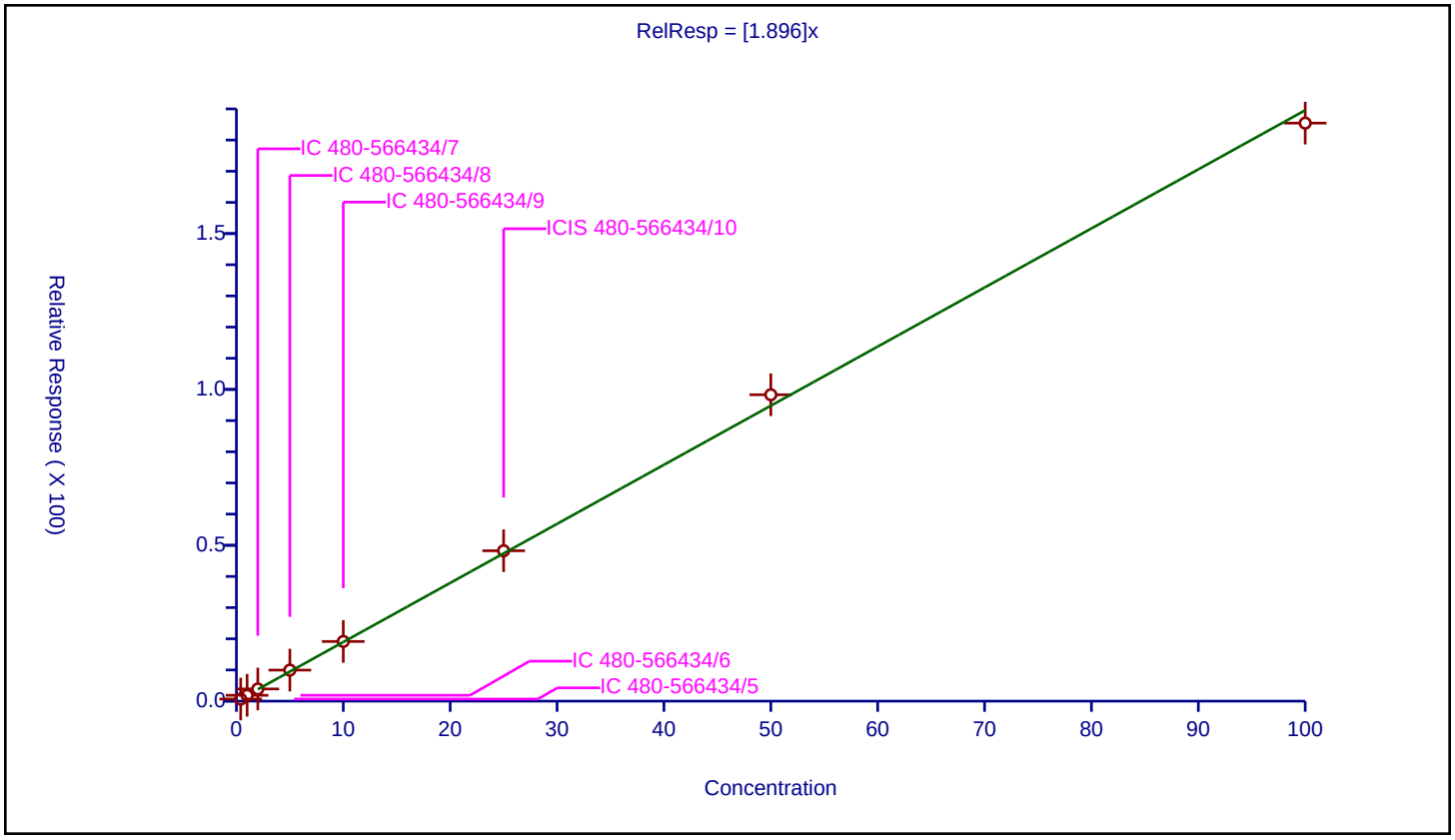
Curve Coefficients

Intercept:	0
Slope:	1.896

Error Coefficients

Standard Error:	415000
Relative Standard Error:	5.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.672133	25.0	131410.0	1.680333	Y
2	IC 480-566434/6	1.0	1.873993	25.0	127882.0	1.873993	Y
3	IC 480-566434/7	2.0	3.908368	25.0	125436.0	1.954184	Y
4	IC 480-566434/8	5.0	9.959181	25.0	123838.0	1.991836	Y
5	IC 480-566434/9	10.0	19.144358	25.0	127343.0	1.914436	Y
6	ICIS 480-566434/10	25.0	48.243581	25.0	123376.0	1.929743	Y
7	IC 480-566434/11	50.0	98.302481	25.0	127112.0	1.96605	Y
8	IC 480-566434/12	100.0	185.433391	25.0	127183.0	1.854334	Y



Calibration / cis-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

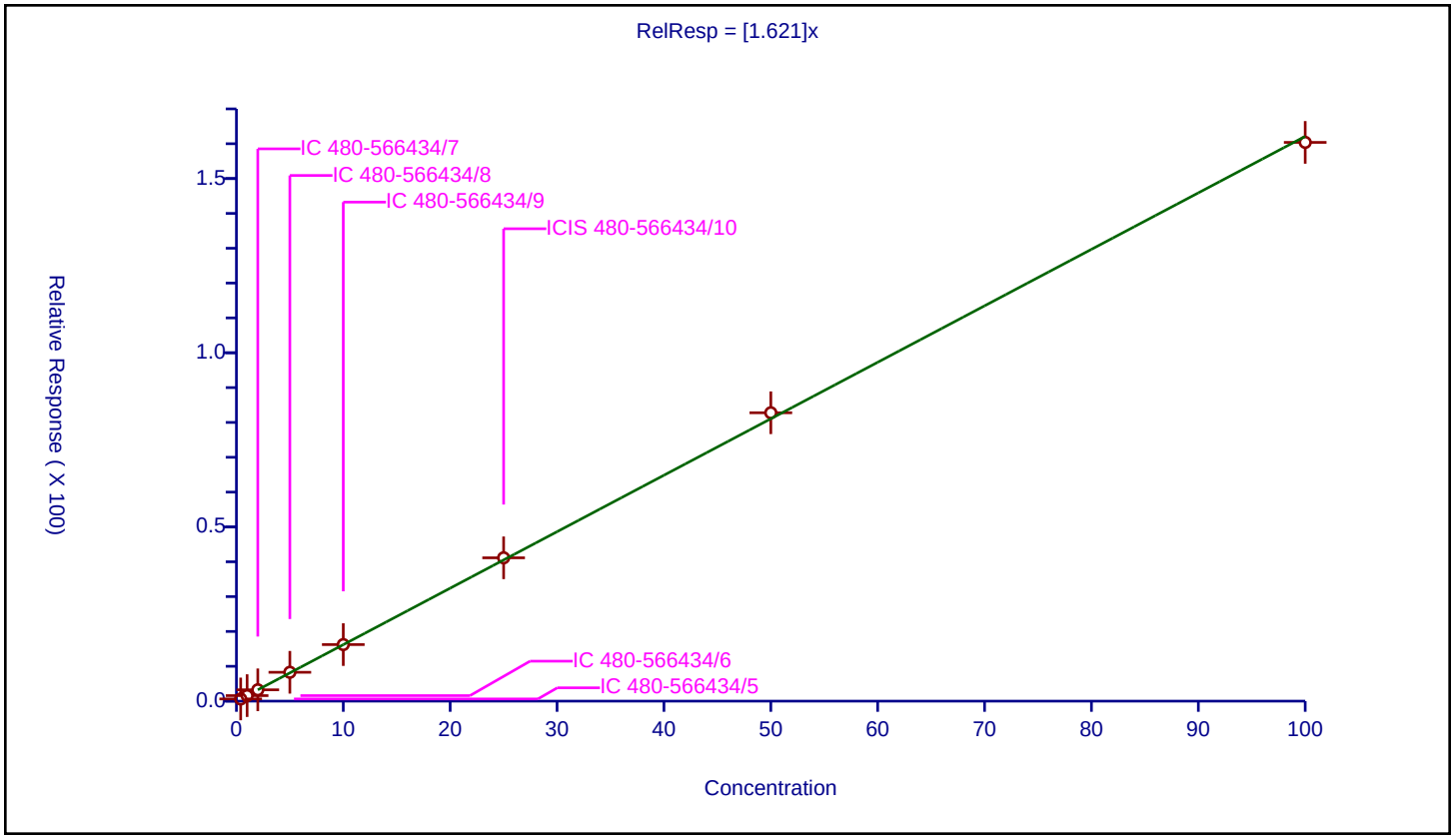
Curve Coefficients

Intercept:	0
Slope:	1.621

Error Coefficients

Standard Error:	357000
Relative Standard Error:	1.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.630279	25.0	131410.0	1.575698	Y
2	IC 480-566434/6	1.0	1.583296	25.0	127882.0	1.583296	Y
3	IC 480-566434/7	2.0	3.249665	25.0	125436.0	1.624833	Y
4	IC 480-566434/8	5.0	8.280778	25.0	123838.0	1.656156	Y
5	IC 480-566434/9	10.0	16.234304	25.0	127343.0	1.62343	Y
6	ICIS 480-566434/10	25.0	41.145766	25.0	123376.0	1.645831	Y
7	IC 480-566434/11	50.0	82.776016	25.0	127112.0	1.65552	Y
8	IC 480-566434/12	100.0	160.383463	25.0	127183.0	1.603835	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

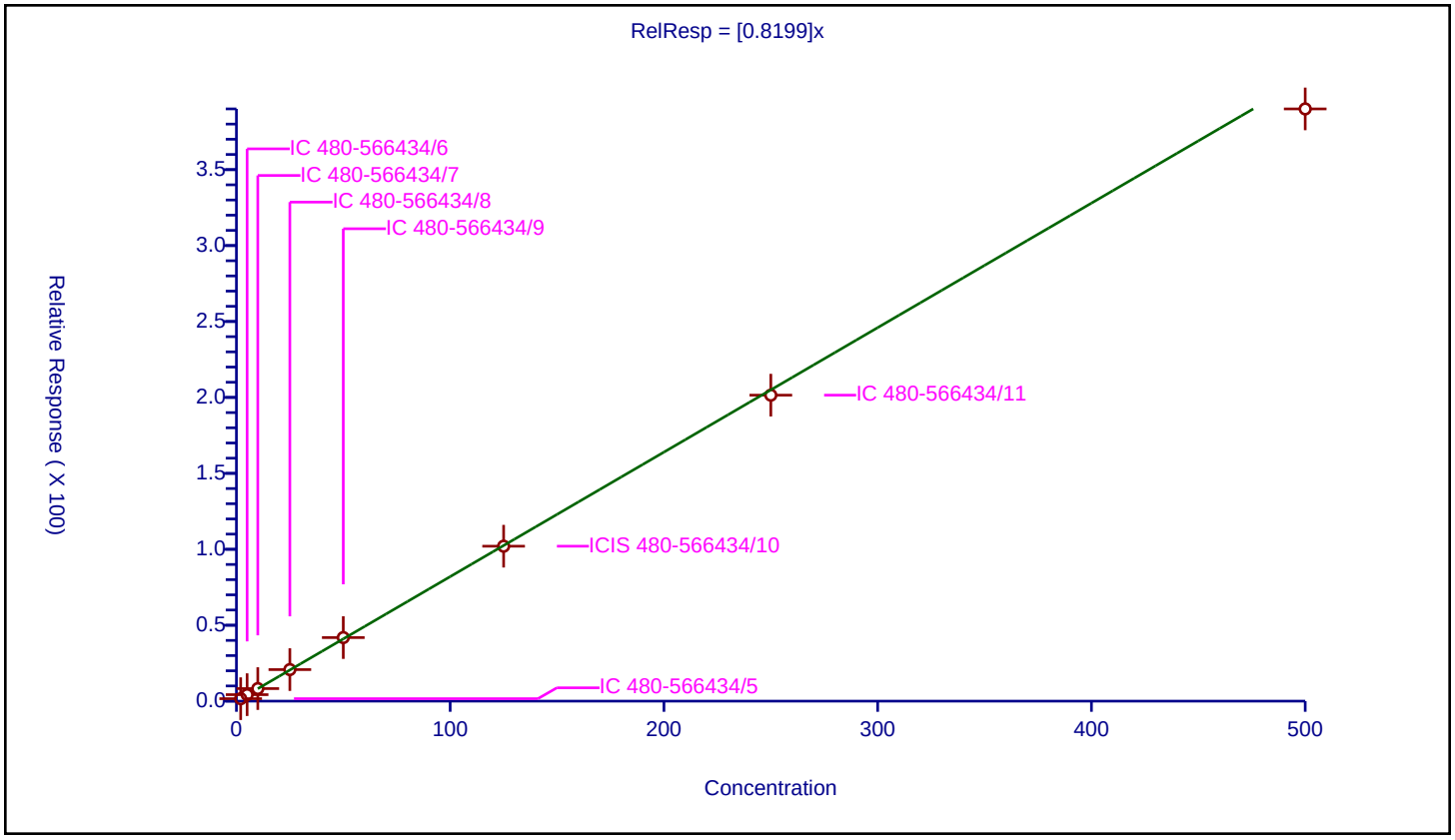
Curve Coefficients

Intercept:	0
Slope:	0.8199

Error Coefficients

Standard Error:	870000
Relative Standard Error:	2.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	2.0	1.614032	25.0	131410.0	0.807016	Y
2	IC 480-566434/6	5.0	4.273666	25.0	127882.0	0.854733	Y
3	IC 480-566434/7	10.0	8.268759	25.0	125436.0	0.826876	Y
4	IC 480-566434/8	25.0	20.778759	25.0	123838.0	0.83115	Y
5	IC 480-566434/9	50.0	41.848394	25.0	127343.0	0.836968	Y
6	ICIS 480-566434/10	125.0	102.02896	25.0	123376.0	0.816232	Y
7	IC 480-566434/11	250.0	201.492581	25.0	127112.0	0.80597	Y
8	IC 480-566434/12	500.0	389.983724	25.0	127183.0	0.779967	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

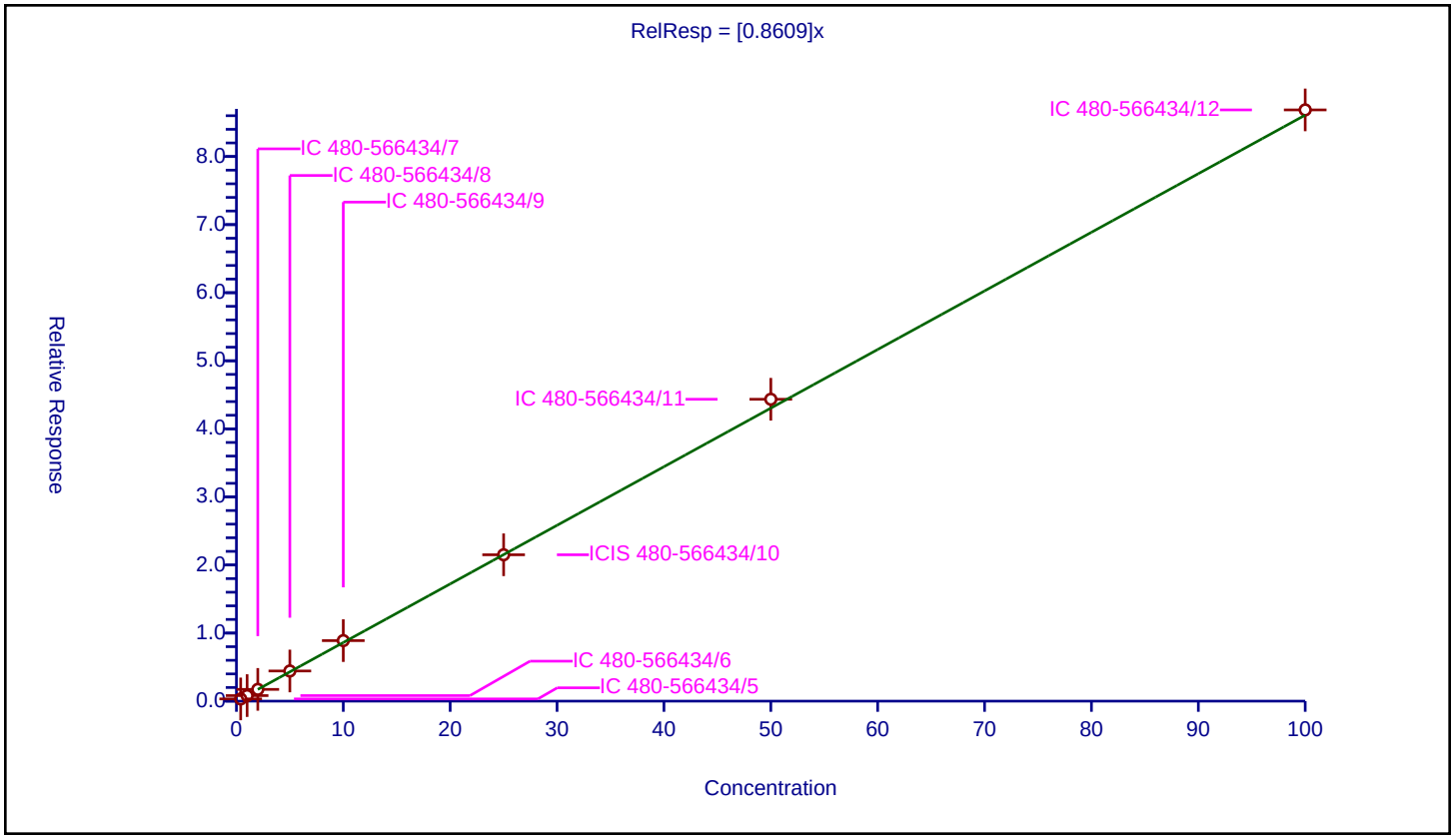
Curve Coefficients

Intercept:	0
Slope:	0.8609

Error Coefficients

Standard Error:	193000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.32684	25.0	131410.0	0.817099	Y
2	IC 480-566434/6	1.0	0.815009	25.0	127882.0	0.815009	Y
3	IC 480-566434/7	2.0	1.728969	25.0	125436.0	0.864485	Y
4	IC 480-566434/8	5.0	4.429981	25.0	123838.0	0.885996	Y
5	IC 480-566434/9	10.0	8.891537	25.0	127343.0	0.889154	Y
6	ICIS 480-566434/10	25.0	21.50094	25.0	123376.0	0.860038	Y
7	IC 480-566434/11	50.0	44.345931	25.0	127112.0	0.886919	Y
8	IC 480-566434/12	100.0	86.852803	25.0	127183.0	0.868528	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

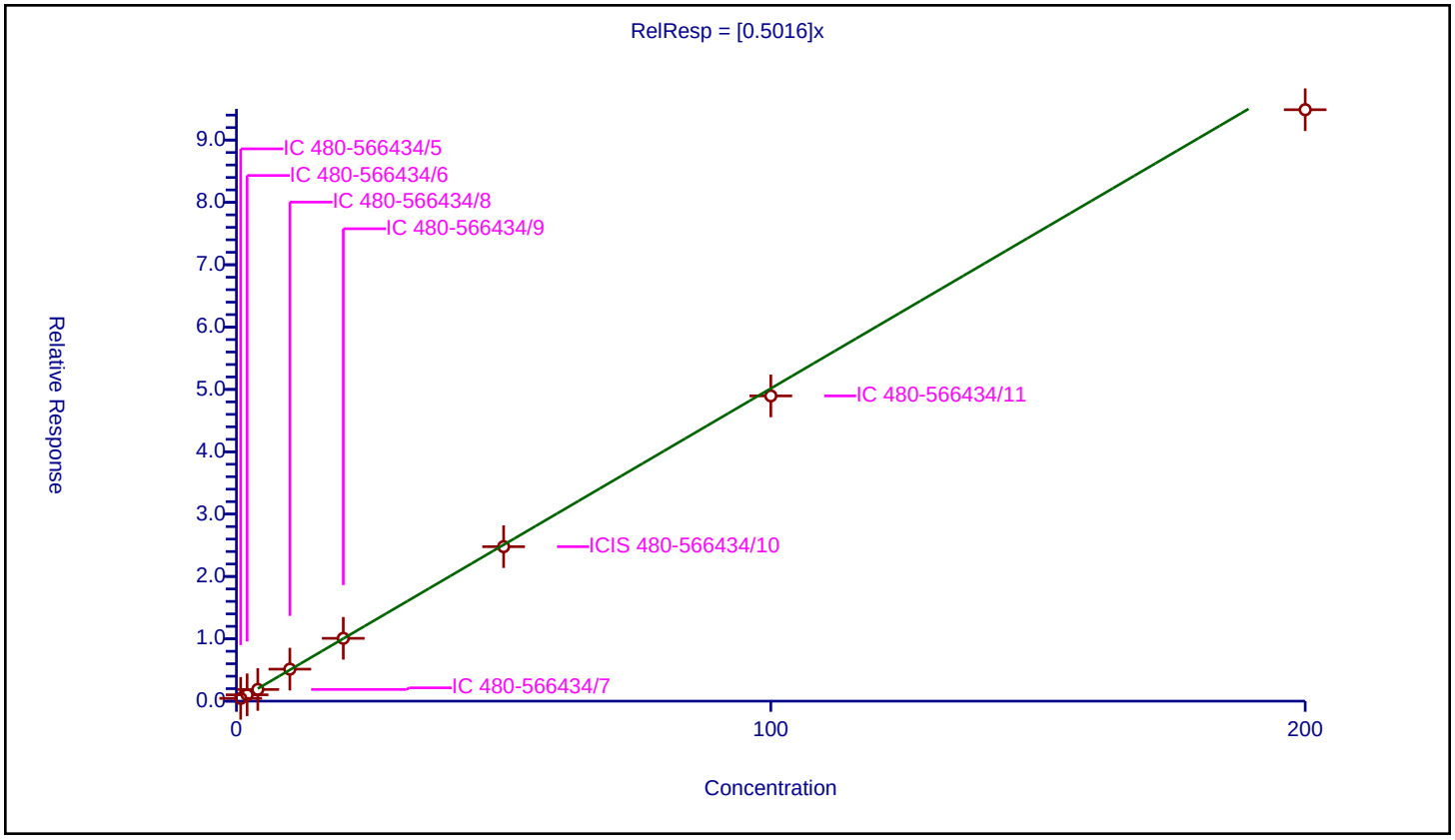
Curve Coefficients

Intercept:	0
Slope:	0.5016

Error Coefficients

Standard Error:	212000
Relative Standard Error:	5.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.8	0.446503	25.0	131410.0	0.558129	Y
2	IC 480-566434/6	2.0	1.019299	25.0	127882.0	0.50965	Y
3	IC 480-566434/7	4.0	1.87207	25.0	125436.0	0.468018	Y
4	IC 480-566434/8	10.0	5.134127	25.0	123838.0	0.513413	Y
5	IC 480-566434/9	20.0	10.074562	25.0	127343.0	0.503728	Y
6	ICIS 480-566434/10	50.0	24.778523	25.0	123376.0	0.49557	Y
7	IC 480-566434/11	100.0	48.963512	25.0	127112.0	0.489635	Y
8	IC 480-566434/12	200.0	94.869401	25.0	127183.0	0.474347	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

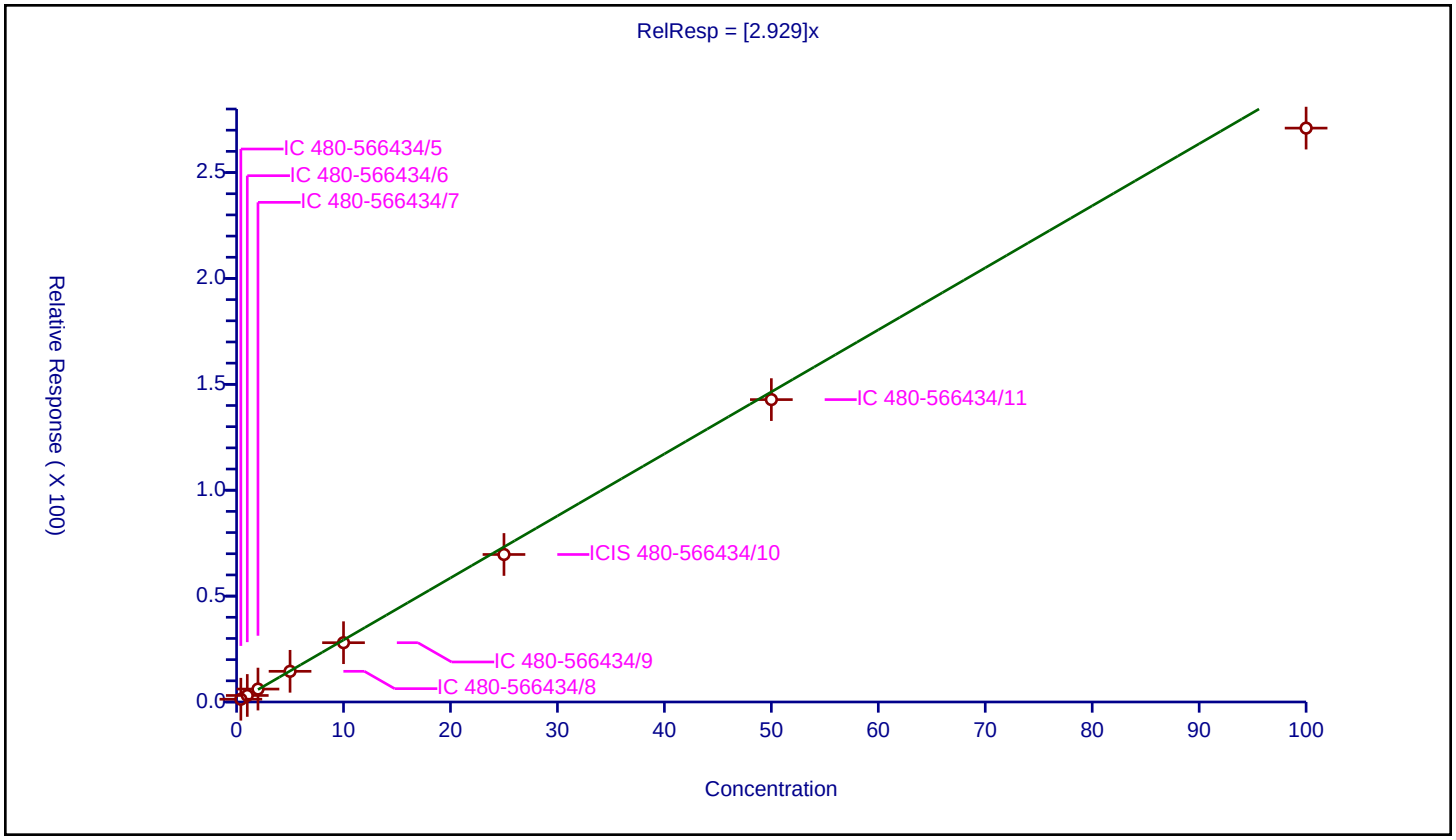
Curve Coefficients

Intercept:	0
Slope:	2.929

Error Coefficients

Standard Error:	606000
Relative Standard Error:	6.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	1.302603	25.0	131410.0	3.256506	Y
2	IC 480-566434/6	1.0	3.076664	25.0	127882.0	3.076664	Y
3	IC 480-566434/7	2.0	6.098927	25.0	125436.0	3.049463	Y
4	IC 480-566434/8	5.0	14.48364	25.0	123838.0	2.896728	Y
5	IC 480-566434/9	10.0	27.997416	25.0	127343.0	2.799742	Y
6	ICIS 480-566434/10	25.0	69.647865	25.0	123376.0	2.785915	Y
7	IC 480-566434/11	50.0	142.78766	25.0	127112.0	2.855753	Y
8	IC 480-566434/12	100.0	270.984919	25.0	127183.0	2.709849	Y



Calibration / 1,1,1-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

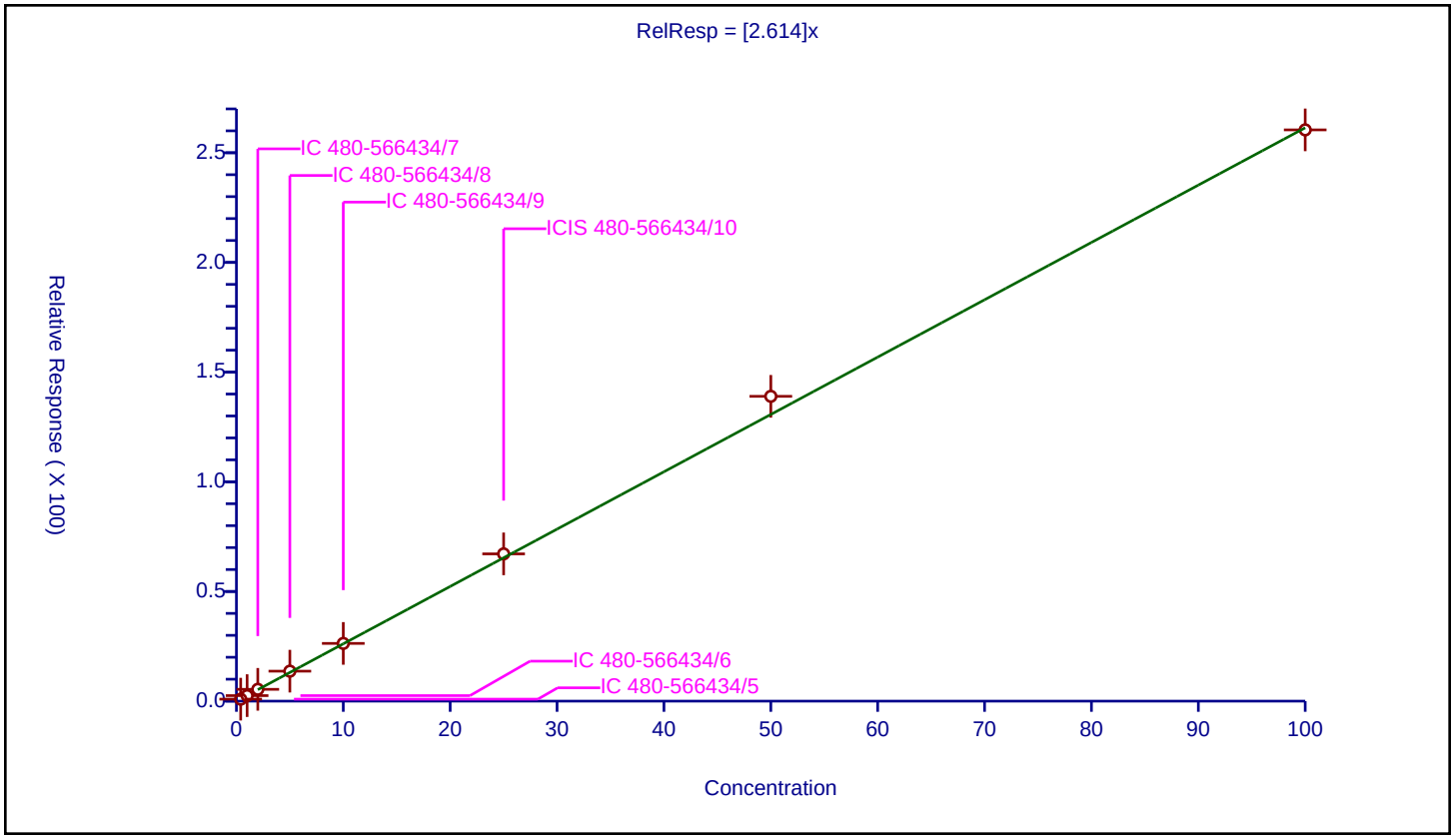
Curve Coefficients

Intercept:	0
Slope:	2.614

Error Coefficients

Standard Error:	584000
Relative Standard Error:	6.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.909368	25.0	131410.0	2.273419	Y
2	IC 480-566434/6	1.0	2.513841	25.0	127882.0	2.513841	Y
3	IC 480-566434/7	2.0	5.38143	25.0	125436.0	2.690715	Y
4	IC 480-566434/8	5.0	13.660589	25.0	123838.0	2.732118	Y
5	IC 480-566434/9	10.0	26.323787	25.0	127343.0	2.632379	Y
6	ICIS 480-566434/10	25.0	67.136639	25.0	123376.0	2.685466	Y
7	IC 480-566434/11	50.0	138.964063	25.0	127112.0	2.779281	Y
8	IC 480-566434/12	100.0	260.435947	25.0	127183.0	2.604359	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

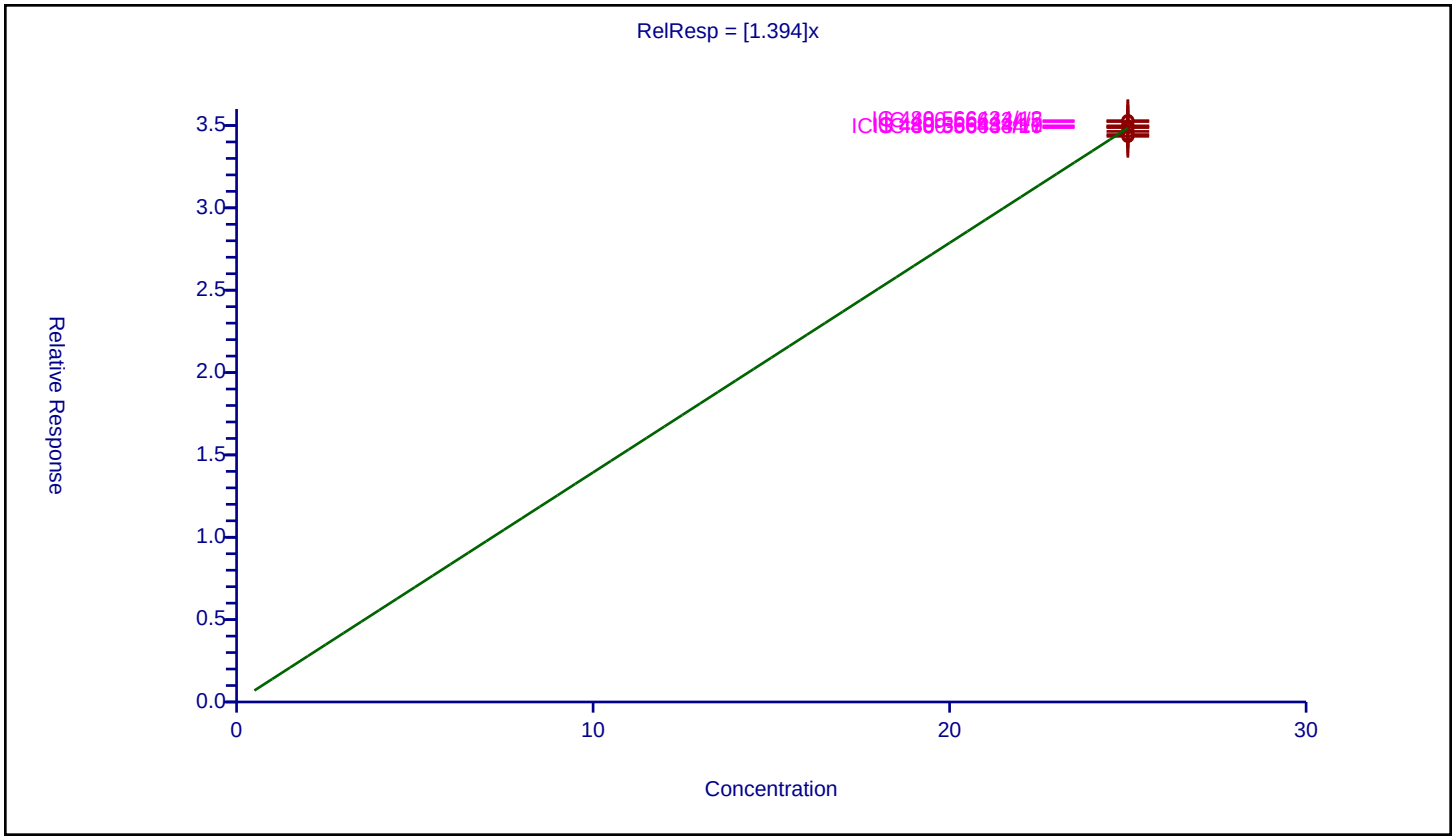
Curve Coefficients

Intercept:	0
Slope:	1.394

Error Coefficients

Standard Error:	189000
Relative Standard Error:	1.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	25.0	35.237044	25.0	131410.0	1.409482	Y
2	IC 480-566434/6	25.0	34.341033	25.0	127882.0	1.373641	Y
3	IC 480-566434/7	25.0	34.872166	25.0	125436.0	1.394887	Y
4	IC 480-566434/8	25.0	34.640417	25.0	123838.0	1.385617	Y
5	IC 480-566434/9	25.0	34.448497	25.0	127343.0	1.37794	Y
6	ICIS 480-566434/10	25.0	34.926161	25.0	123376.0	1.397046	Y
7	IC 480-566434/11	25.0	34.980372	25.0	127112.0	1.399215	Y
8	IC 480-566434/12	25.0	35.293435	25.0	127183.0	1.411737	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

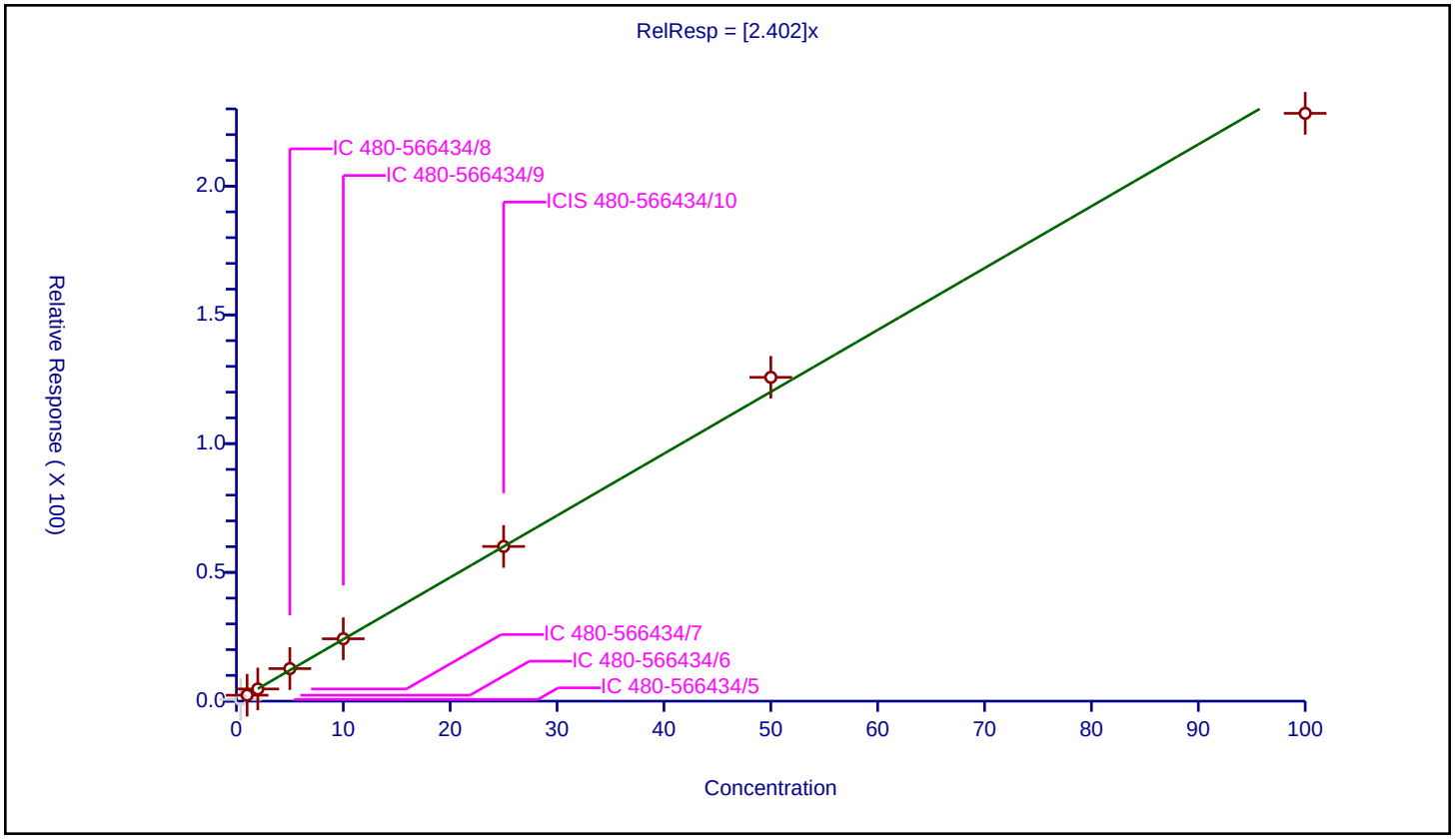
Curve Coefficients

Intercept:	0
Slope:	2.402

Error Coefficients

Standard Error:	557000
Relative Standard Error:	4.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.653109	25.0	131410.0	1.632771	N
2	IC 480-566434/6	1.0	2.299385	25.0	127882.0	2.299385	Y
3	IC 480-566434/7	2.0	4.73628	25.0	125436.0	2.36814	Y
4	IC 480-566434/8	5.0	12.634854	25.0	123838.0	2.526971	Y
5	IC 480-566434/9	10.0	24.219235	25.0	127343.0	2.421923	Y
6	ICIS 480-566434/10	25.0	60.066788	25.0	123376.0	2.402672	Y
7	IC 480-566434/11	50.0	125.748552	25.0	127112.0	2.514971	Y
8	IC 480-566434/12	100.0	228.277364	25.0	127183.0	2.282774	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

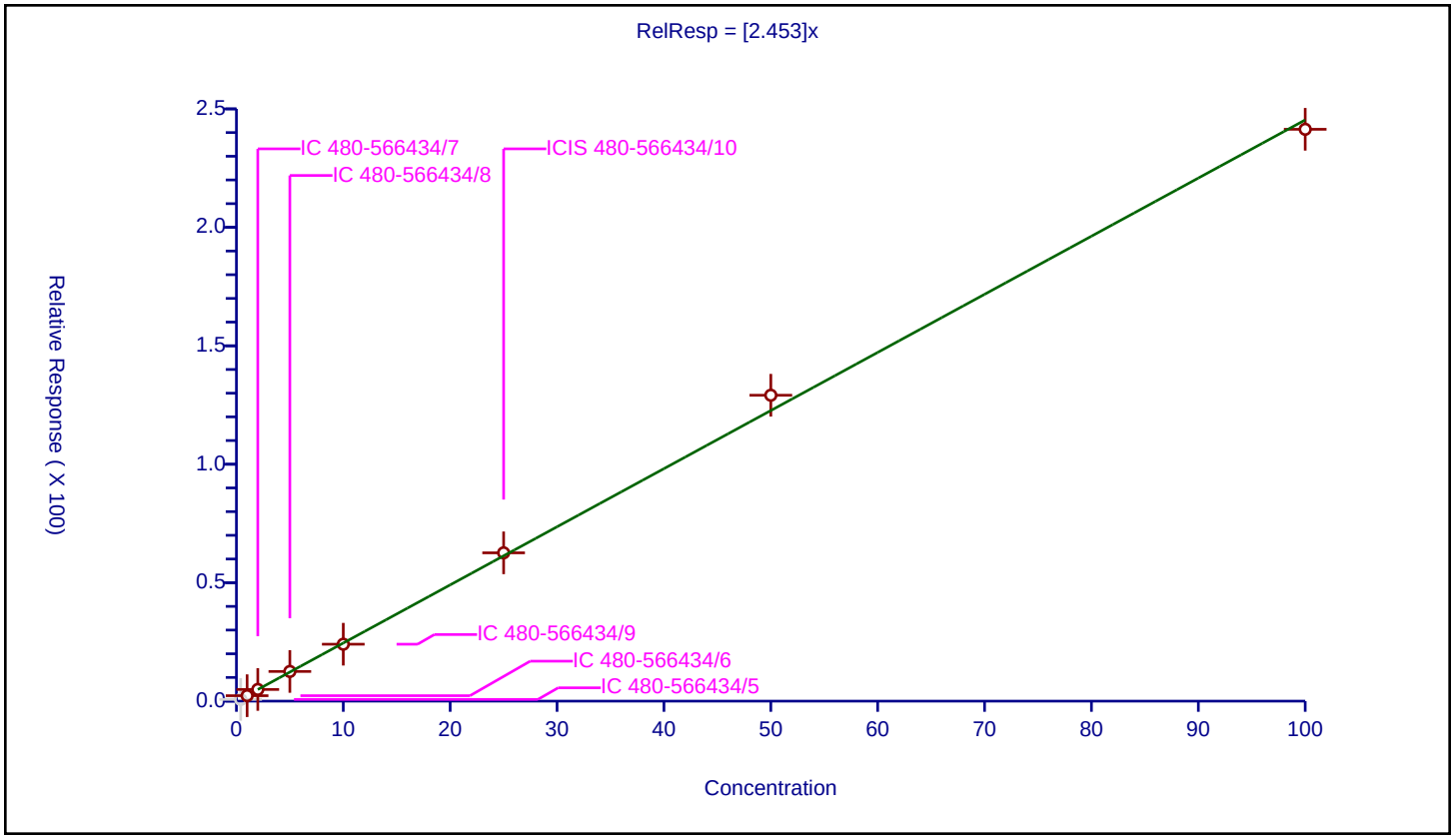
Curve Coefficients

Intercept:	0
Slope:	2.453

Error Coefficients

Standard Error:	585000
Relative Standard Error:	3.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.720836	25.0	131410.0	1.802089	N
2	IC 480-566434/6	1.0	2.295671	25.0	127882.0	2.295671	Y
3	IC 480-566434/7	2.0	4.932595	25.0	125436.0	2.466298	Y
4	IC 480-566434/8	5.0	12.534117	25.0	123838.0	2.506823	Y
5	IC 480-566434/9	10.0	24.036068	25.0	127343.0	2.403607	Y
6	ICIS 480-566434/10	25.0	62.61003	25.0	123376.0	2.504401	Y
7	IC 480-566434/11	50.0	129.126479	25.0	127112.0	2.58253	Y
8	IC 480-566434/12	100.0	241.384462	25.0	127183.0	2.413845	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

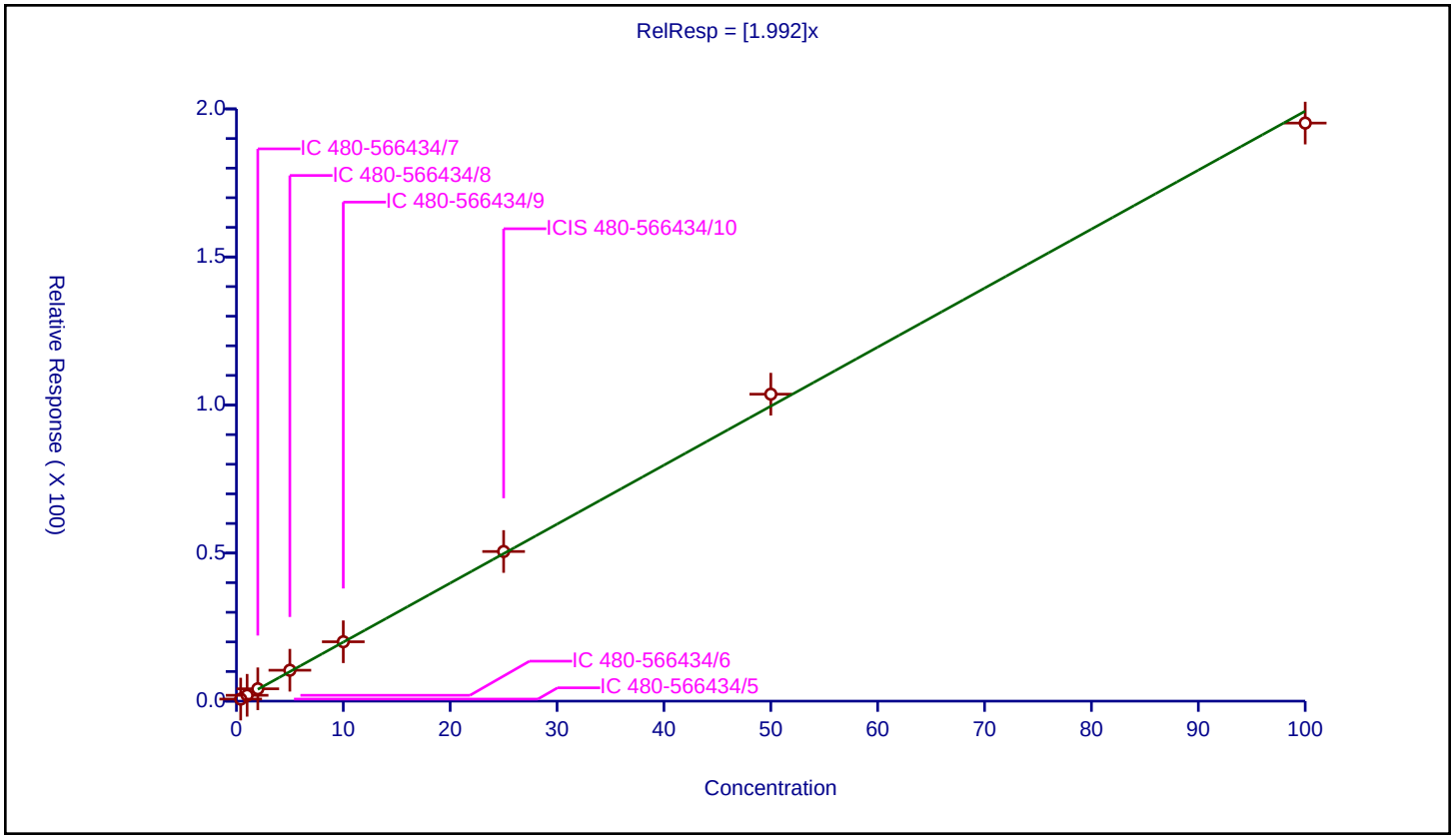
Curve Coefficients

Intercept:	0
Slope:	1.992

Error Coefficients

Standard Error:	437000
Relative Standard Error:	5.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.695153	25.0	131410.0	1.737881	Y
2	IC 480-566434/6	1.0	1.978582	25.0	127882.0	1.978582	Y
3	IC 480-566434/7	2.0	4.168062	25.0	125436.0	2.084031	Y
4	IC 480-566434/8	5.0	10.433591	25.0	123838.0	2.086718	Y
5	IC 480-566434/9	10.0	20.053713	25.0	127343.0	2.005371	Y
6	ICIS 480-566434/10	25.0	50.537179	25.0	123376.0	2.021487	Y
7	IC 480-566434/11	50.0	103.663501	25.0	127112.0	2.07327	Y
8	IC 480-566434/12	100.0	195.213786	25.0	127183.0	1.952138	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

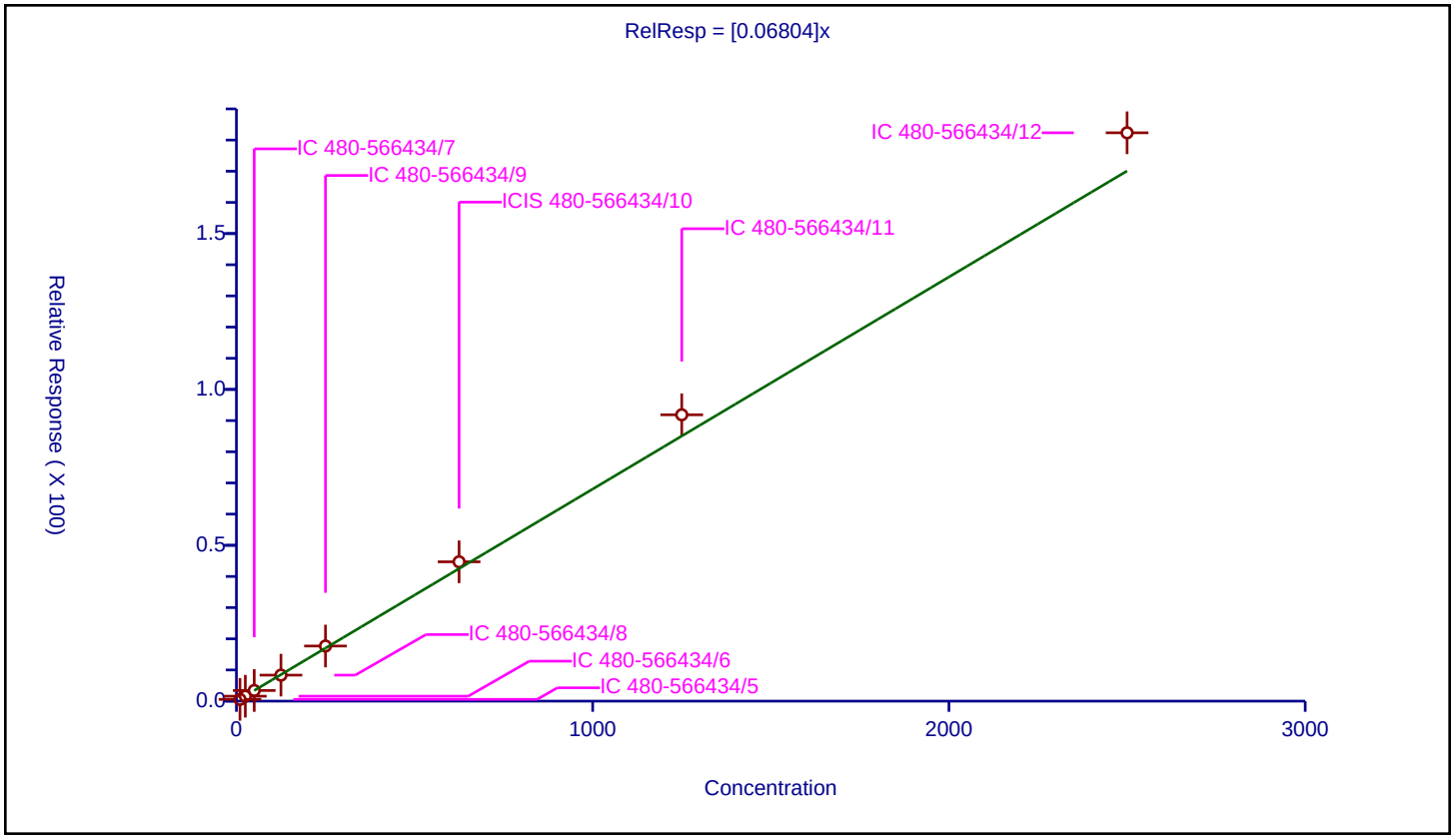
Curve Coefficients

Intercept:	0
Slope:	0.06804

Error Coefficients

Standard Error:	403000
Relative Standard Error:	8.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	10.0	0.570733	25.0	131410.0	0.057073	Y
2	IC 480-566434/6	25.0	1.58701	25.0	127882.0	0.06348	Y
3	IC 480-566434/7	50.0	3.415287	25.0	125436.0	0.068306	Y
4	IC 480-566434/8	125.0	8.342956	25.0	123838.0	0.066744	Y
5	IC 480-566434/9	250.0	17.684521	25.0	127343.0	0.070738	Y
6	ICIS 480-566434/10	625.0	44.700955	25.0	123376.0	0.071522	Y
7	IC 480-566434/11	1250.0	91.869572	25.0	127112.0	0.073496	Y
8	IC 480-566434/12	2500.0	182.331365	25.0	127183.0	0.072933	Y



Calibration / 1,2-Dichloroethane-d4 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

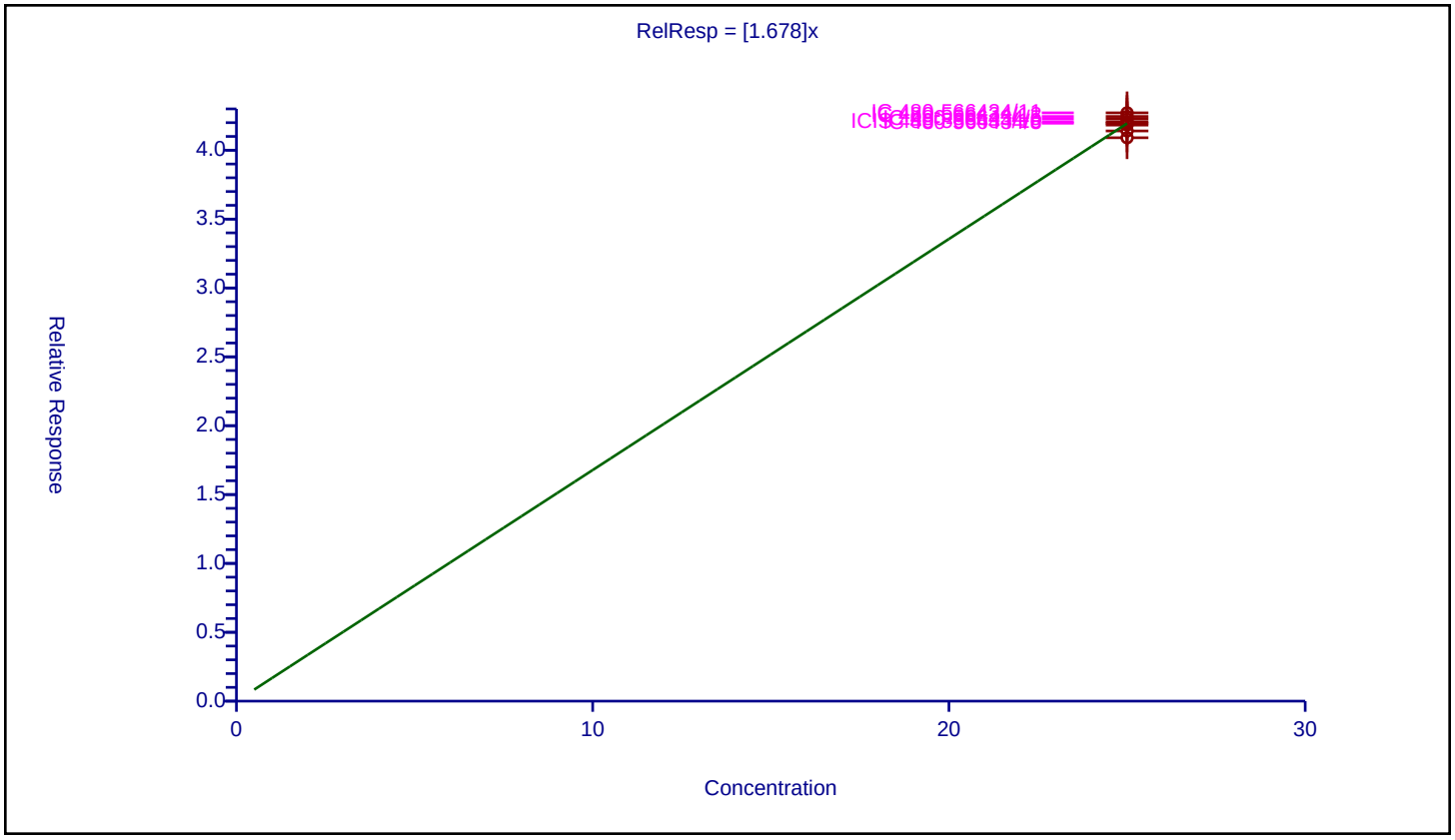
Curve Coefficients

Intercept:	0
Slope:	1.678

Error Coefficients

Standard Error:	227000
Relative Standard Error:	1.4
Correlation Coefficient:	0
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	25.0	42.258009	25.0	131410.0	1.69032	Y
2	IC 480-566434/6	25.0	41.398907	25.0	127882.0	1.655956	Y
3	IC 480-566434/7	25.0	40.905522	25.0	125436.0	1.636221	Y
4	IC 480-566434/8	25.0	41.958849	25.0	123838.0	1.678354	Y
5	IC 480-566434/9	25.0	41.825032	25.0	127343.0	1.673001	Y
6	ICIS 480-566434/10	25.0	42.042618	25.0	123376.0	1.681705	Y
7	IC 480-566434/11	25.0	42.713709	25.0	127112.0	1.708548	Y
8	IC 480-566434/12	25.0	42.449069	25.0	127183.0	1.697963	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

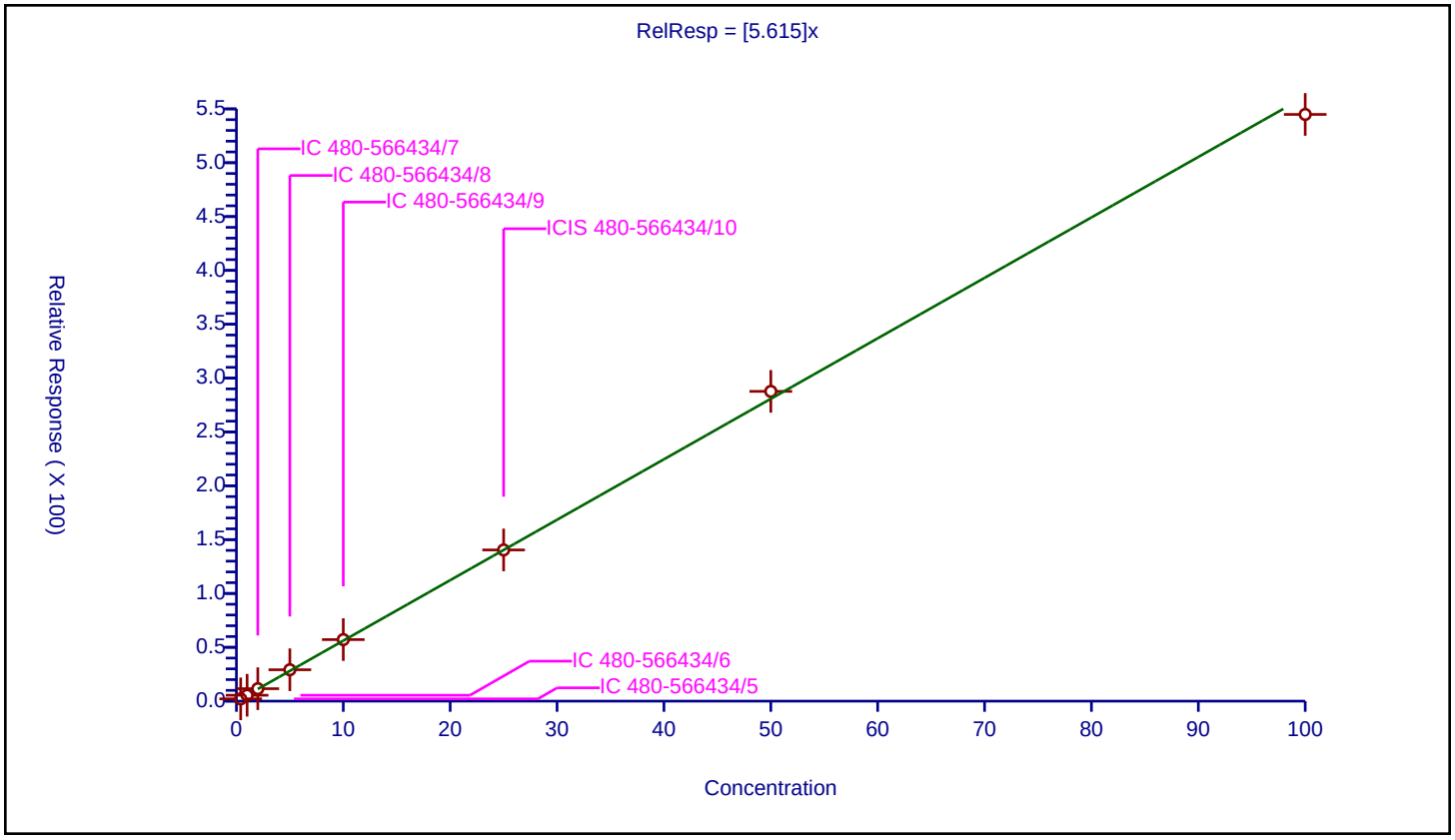
Curve Coefficients

Intercept:	0
Slope:	5.615

Error Coefficients

Standard Error:	1220000
Relative Standard Error:	3.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	2.124838	25.0	131410.0	5.312096	Y
2	IC 480-566434/6	1.0	5.474774	25.0	127882.0	5.474774	Y
3	IC 480-566434/7	2.0	11.55091	25.0	125436.0	5.775455	Y
4	IC 480-566434/8	5.0	29.137664	25.0	123838.0	5.827533	Y
5	IC 480-566434/9	10.0	57.138398	25.0	127343.0	5.71384	Y
6	ICIS 480-566434/10	25.0	140.393796	25.0	123376.0	5.615752	Y
7	IC 480-566434/11	50.0	287.676813	25.0	127112.0	5.753536	Y
8	IC 480-566434/12	100.0	544.846599	25.0	127183.0	5.448466	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

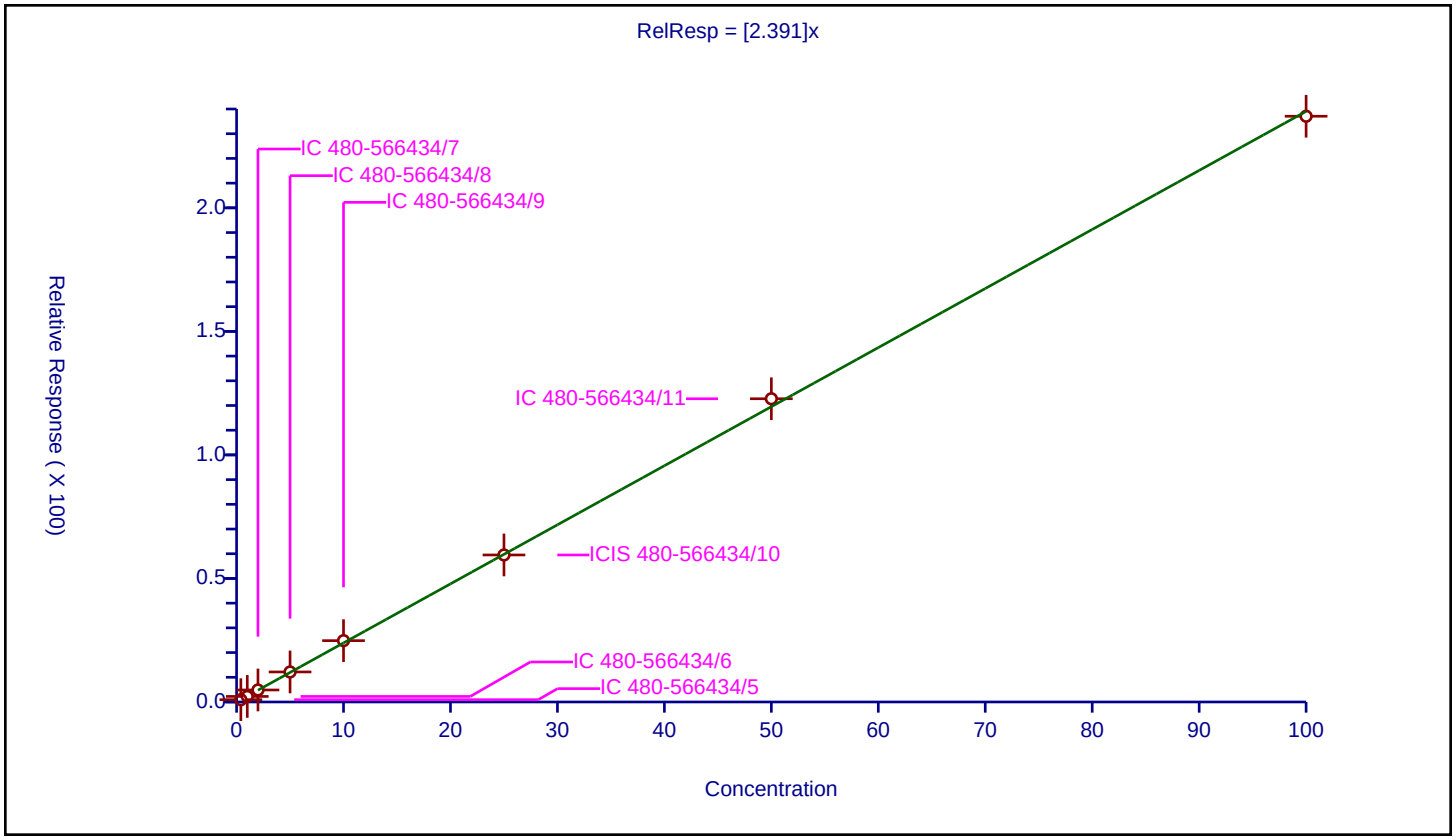
Curve Coefficients

Intercept:	0
Slope:	2.391

Error Coefficients

Standard Error:	528000
Relative Standard Error:	3.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.928963	25.0	131410.0	2.322407	Y
2	IC 480-566434/6	1.0	2.251685	25.0	127882.0	2.251685	Y
3	IC 480-566434/7	2.0	4.862639	25.0	125436.0	2.43132	Y
4	IC 480-566434/8	5.0	12.152974	25.0	123838.0	2.430595	Y
5	IC 480-566434/9	10.0	24.828024	25.0	127343.0	2.482802	Y
6	ICIS 480-566434/10	25.0	59.503064	25.0	123376.0	2.380123	Y
7	IC 480-566434/11	50.0	122.728775	25.0	127112.0	2.454575	Y
8	IC 480-566434/12	100.0	237.074334	25.0	127183.0	2.370743	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

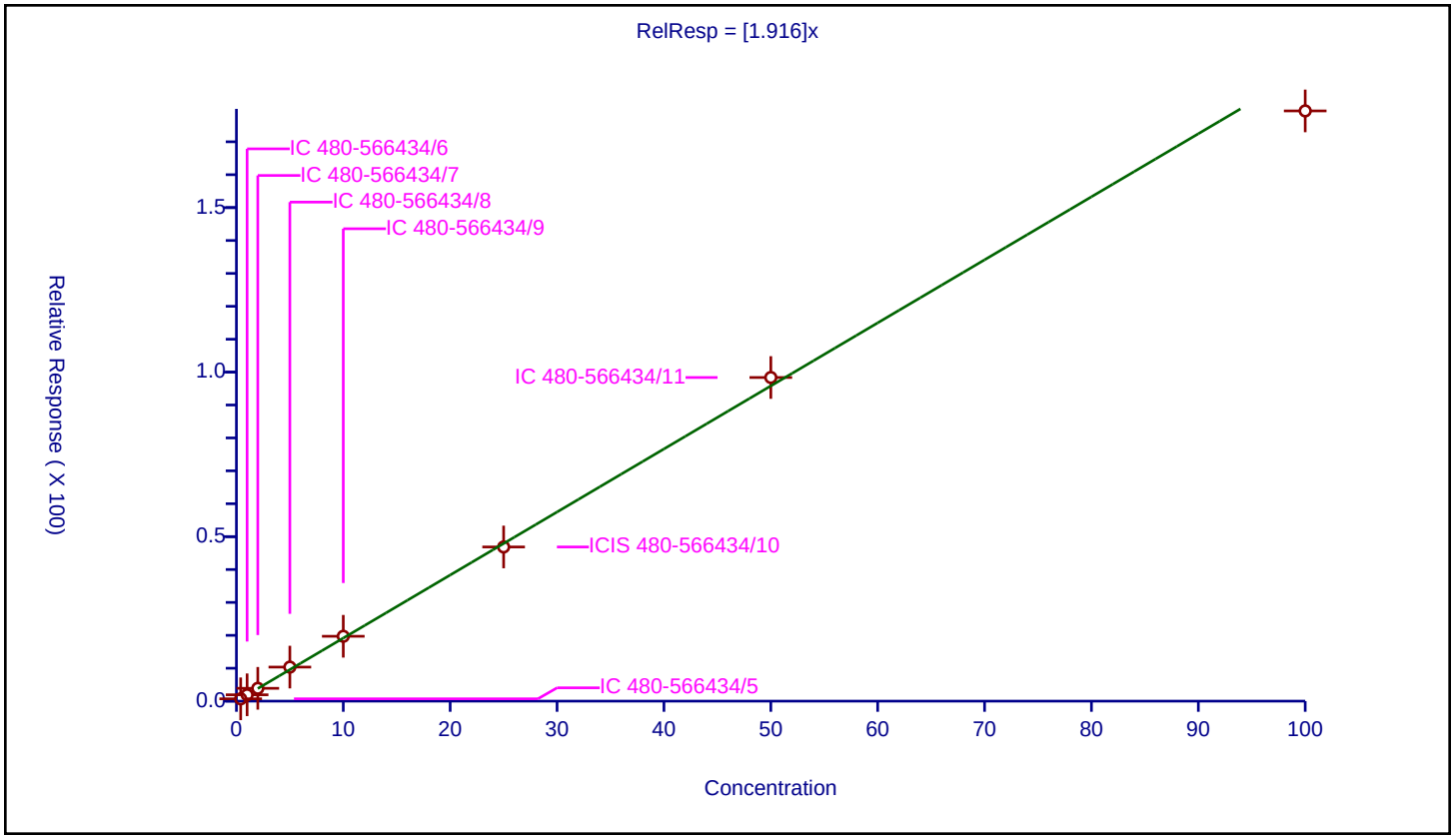
Curve Coefficients

Intercept:	0
Slope:	1.916

Error Coefficients

Standard Error:	405000
Relative Standard Error:	5.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.707709	25.0	131410.0	1.769272	Y
2	IC 480-566434/6	1.0	1.931468	25.0	127882.0	1.931468	Y
3	IC 480-566434/7	2.0	3.901392	25.0	125436.0	1.950696	Y
4	IC 480-566434/8	5.0	10.350417	25.0	123838.0	2.070083	Y
5	IC 480-566434/9	10.0	19.71349	25.0	127343.0	1.971349	Y
6	ICIS 480-566434/10	25.0	46.859195	25.0	123376.0	1.874368	Y
7	IC 480-566434/11	50.0	98.362861	25.0	127112.0	1.967257	Y
8	IC 480-566434/12	100.0	179.388362	25.0	127183.0	1.793884	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

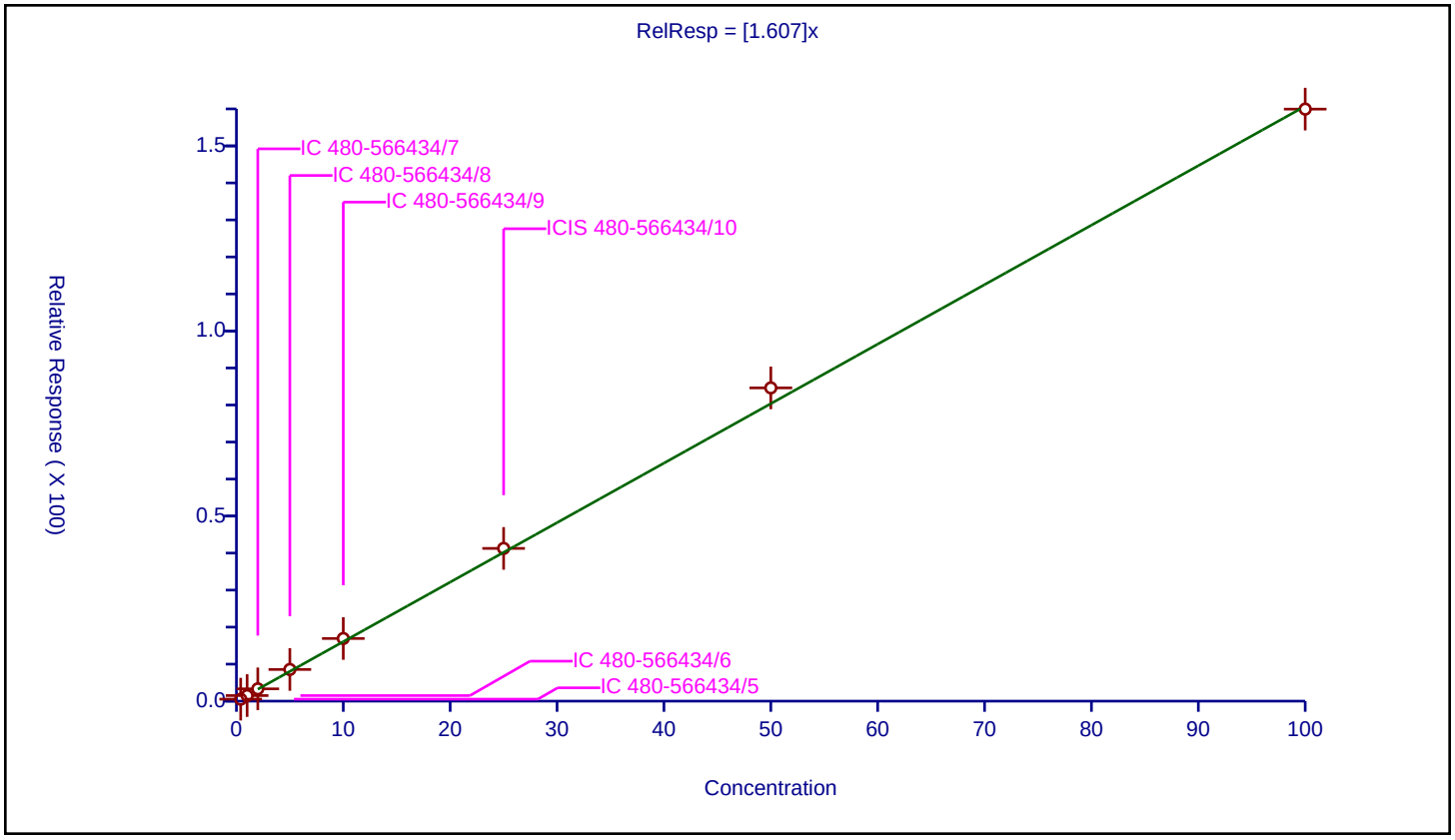
Curve Coefficients

Intercept:	0
Slope:	1.607

Error Coefficients

Standard Error:	358000
Relative Standard Error:	7.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.538962	25.0	131410.0	1.347405	Y
2	IC 480-566434/6	1.0	1.504121	25.0	127882.0	1.504121	Y
3	IC 480-566434/7	2.0	3.322411	25.0	125436.0	1.661206	Y
4	IC 480-566434/8	5.0	8.555936	25.0	123838.0	1.711187	Y
5	IC 480-566434/9	10.0	16.923584	25.0	127343.0	1.692358	Y
6	ICIS 480-566434/10	25.0	41.265116	25.0	123376.0	1.650605	Y
7	IC 480-566434/11	50.0	84.626353	25.0	127112.0	1.692527	Y
8	IC 480-566434/12	100.0	159.939418	25.0	127183.0	1.599394	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

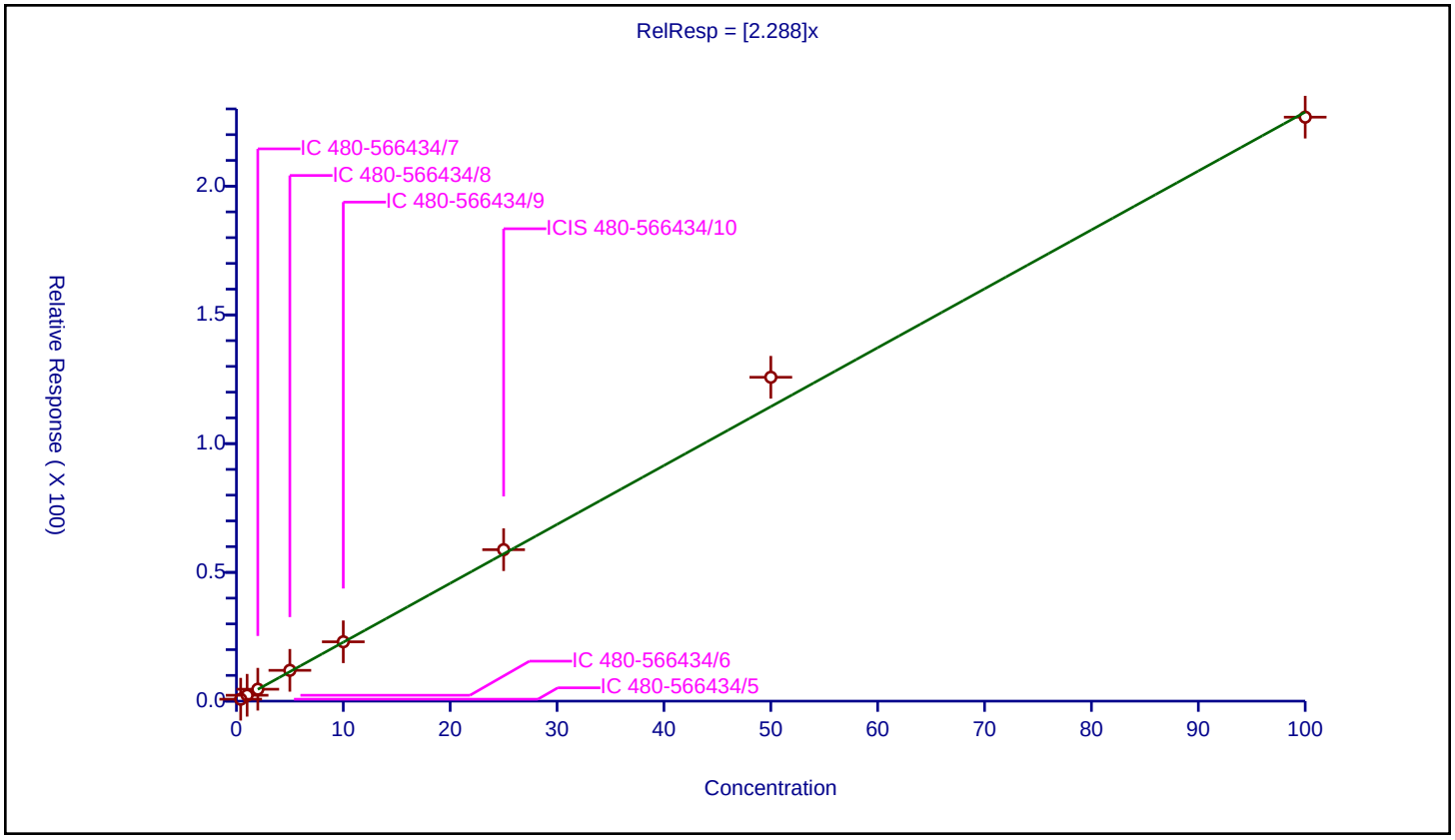
Curve Coefficients

Intercept:	0
Slope:	2.288

Error Coefficients

Standard Error:	513000
Relative Standard Error:	8.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.748801	25.0	131410.0	1.872004	Y
2	IC 480-566434/6	1.0	2.282964	25.0	127882.0	2.282964	Y
3	IC 480-566434/7	2.0	4.62447	25.0	125436.0	2.312235	Y
4	IC 480-566434/8	5.0	11.964421	25.0	123838.0	2.392884	Y
5	IC 480-566434/9	10.0	23.045436	25.0	127343.0	2.304544	Y
6	ICIS 480-566434/10	25.0	58.820597	25.0	123376.0	2.352824	Y
7	IC 480-566434/11	50.0	125.777661	25.0	127112.0	2.515553	Y
8	IC 480-566434/12	100.0	226.79171	25.0	127183.0	2.267917	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

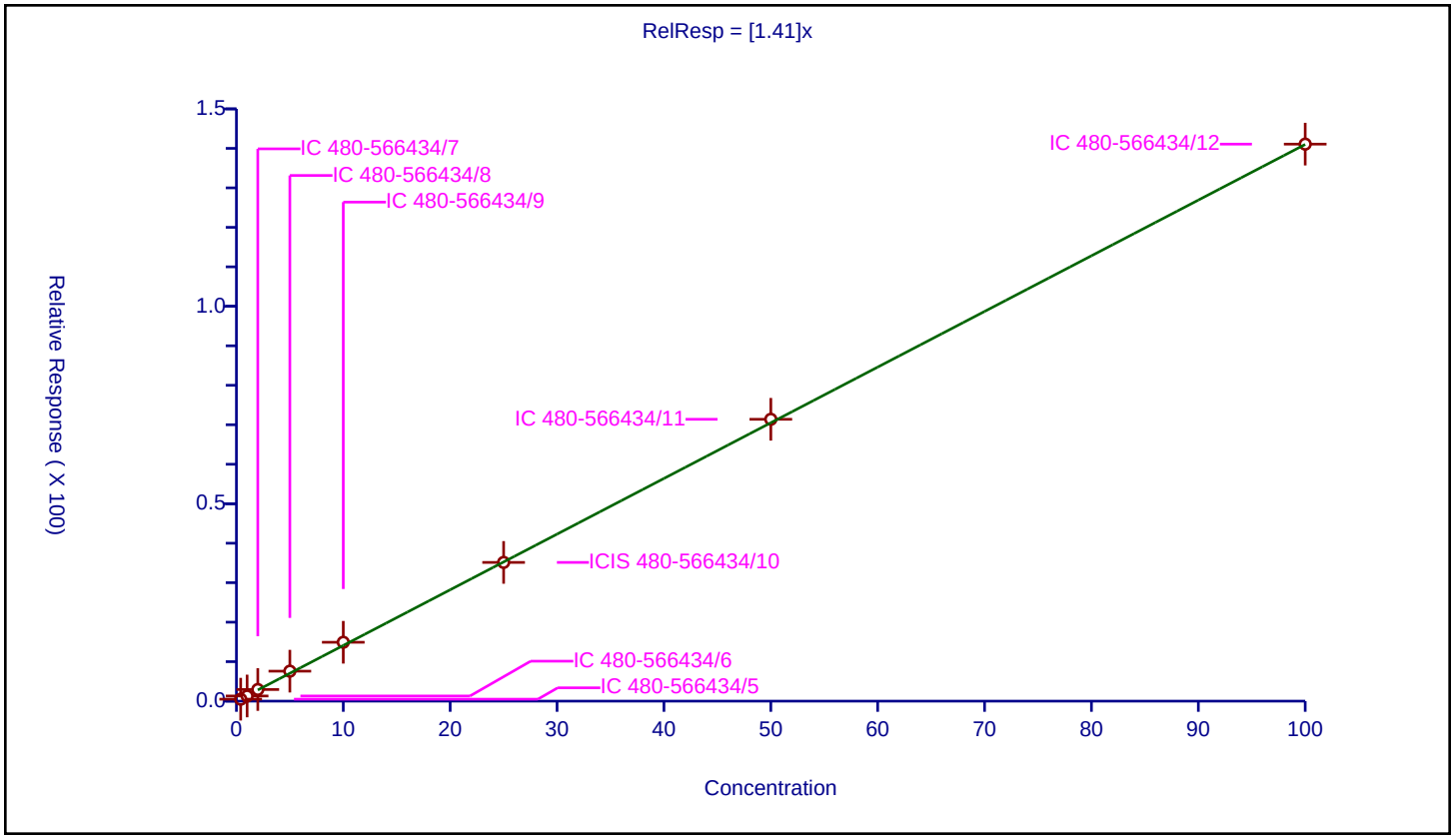
Curve Coefficients

Intercept:	0
Slope:	1.41

Error Coefficients

Standard Error:	313000
Relative Standard Error:	6.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.49863	25.0	131410.0	1.246576	Y
2	IC 480-566434/6	1.0	1.307455	25.0	127882.0	1.307455	Y
3	IC 480-566434/7	2.0	2.944729	25.0	125436.0	1.472364	Y
4	IC 480-566434/8	5.0	7.593388	25.0	123838.0	1.518678	Y
5	IC 480-566434/9	10.0	14.908947	25.0	127343.0	1.490895	Y
6	ICIS 480-566434/10	25.0	35.137709	25.0	123376.0	1.405508	Y
7	IC 480-566434/11	50.0	71.385274	25.0	127112.0	1.427705	Y
8	IC 480-566434/12	100.0	141.07762	25.0	127183.0	1.410776	Y



Calibration / 1,4-Dioxane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

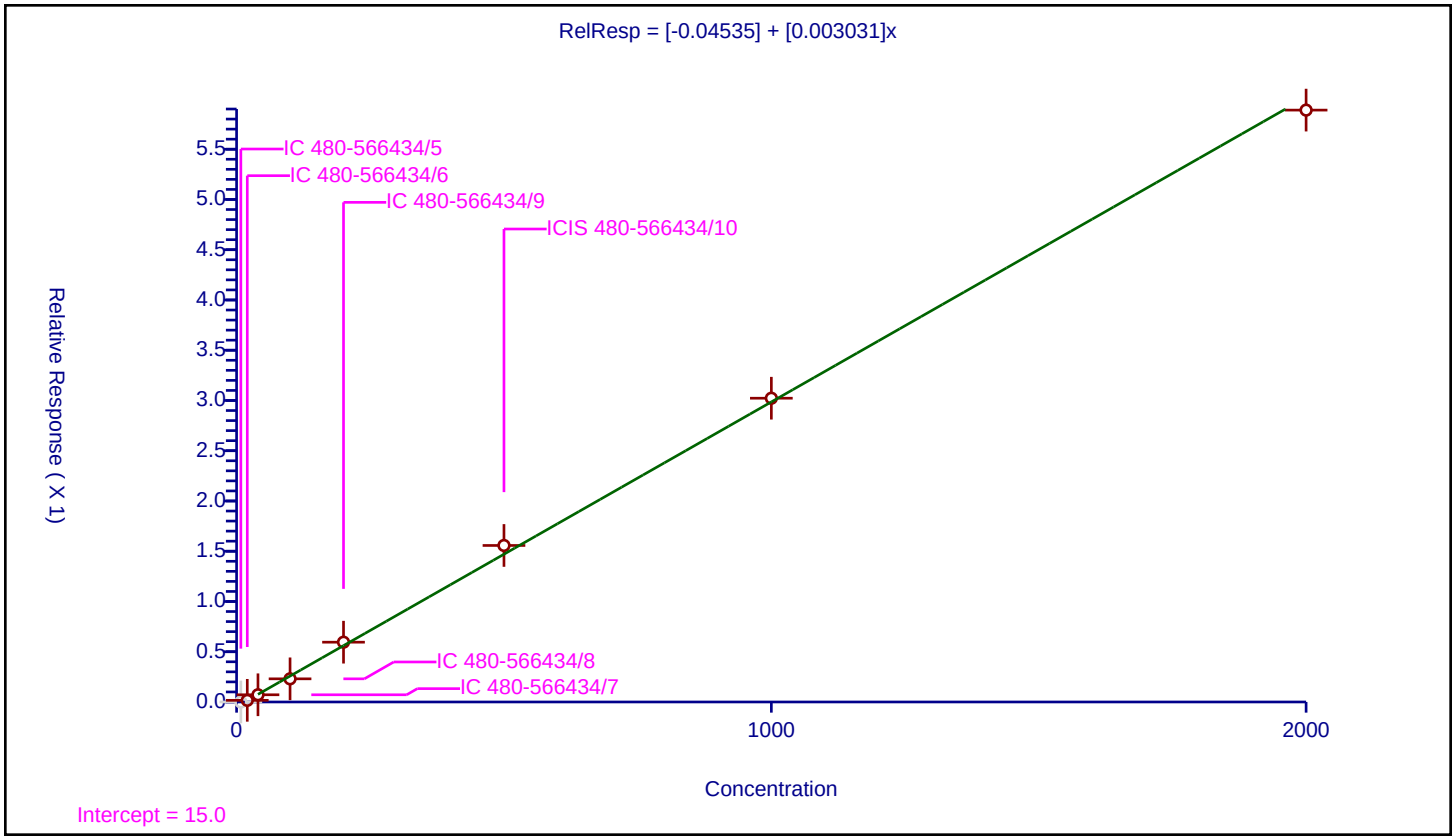
Curve Coefficients

Intercept:	-0.04535
Slope:	0.003031

Error Coefficients

Standard Error:	67300
Relative Standard Error:	5.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	8.0	0.0	25.0	576990.0	0.0	N
2	IC 480-566434/6	20.0	0.016484	25.0	544458.0	0.000824	Y
3	IC 480-566434/7	40.0	0.071693	25.0	547126.0	0.001792	Y
4	IC 480-566434/8	100.0	0.230439	25.0	534306.0	0.002304	Y
5	IC 480-566434/9	200.0	0.594979	25.0	547540.0	0.002975	Y
6	ICIS 480-566434/10	500.0	1.557369	25.0	524041.0	0.003115	Y
7	IC 480-566434/11	1000.0	3.022429	25.0	553975.0	0.003022	Y
8	IC 480-566434/12	2000.0	5.889003	25.0	552220.0	0.002945	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

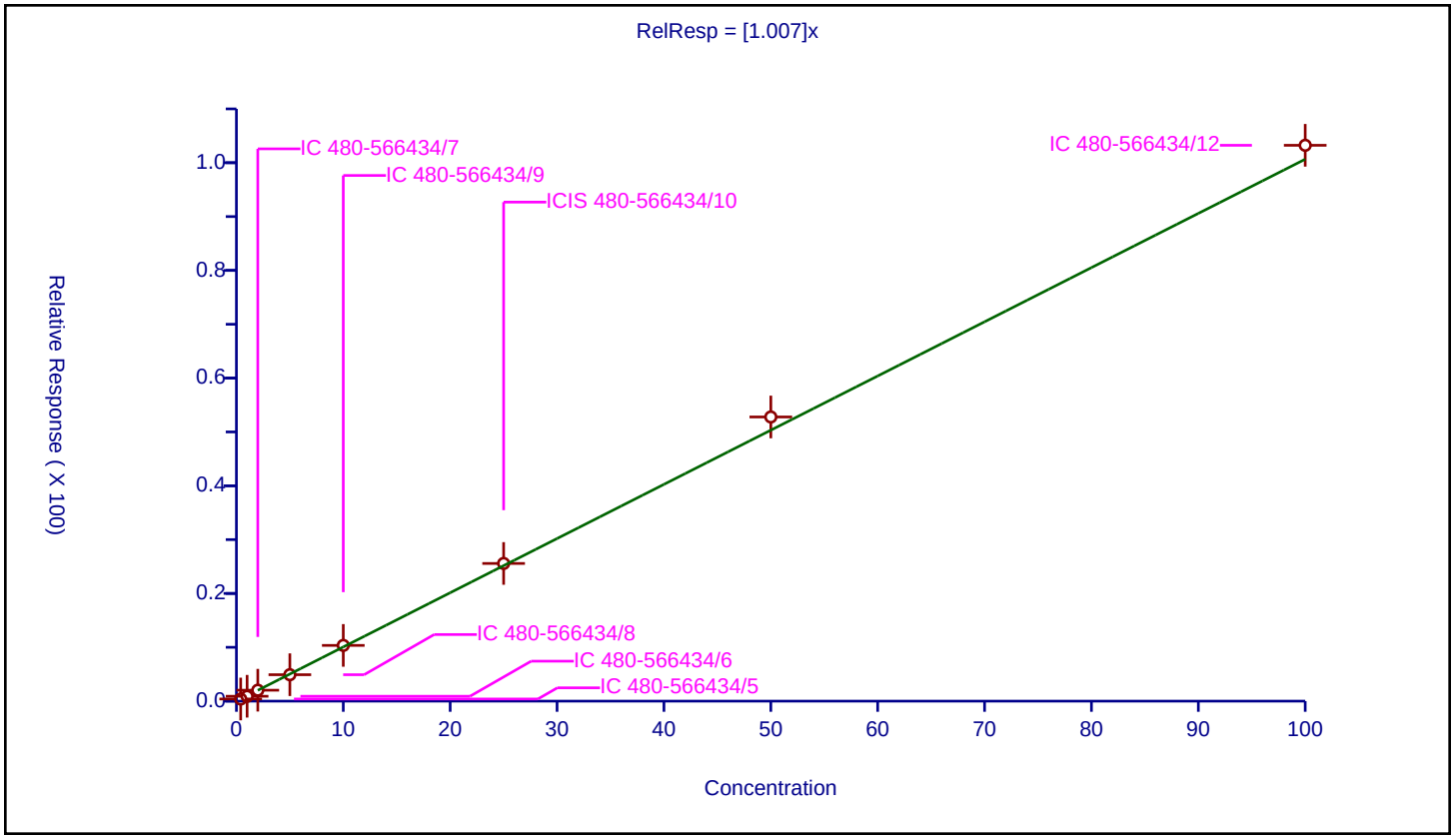
Curve Coefficients

Intercept:	0
Slope:	1.007

Error Coefficients

Standard Error:	229000
Relative Standard Error:	4.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.400274	25.0	131410.0	1.000685	Y
2	IC 480-566434/6	1.0	0.907282	25.0	127882.0	0.907282	Y
3	IC 480-566434/7	2.0	2.032511	25.0	125436.0	1.016255	Y
4	IC 480-566434/8	5.0	4.909034	25.0	123838.0	0.981807	Y
5	IC 480-566434/9	10.0	10.351963	25.0	127343.0	1.035196	Y
6	ICIS 480-566434/10	25.0	25.573856	25.0	123376.0	1.022954	Y
7	IC 480-566434/11	50.0	52.778259	25.0	127112.0	1.055565	Y
8	IC 480-566434/12	100.0	103.235888	25.0	127183.0	1.032359	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

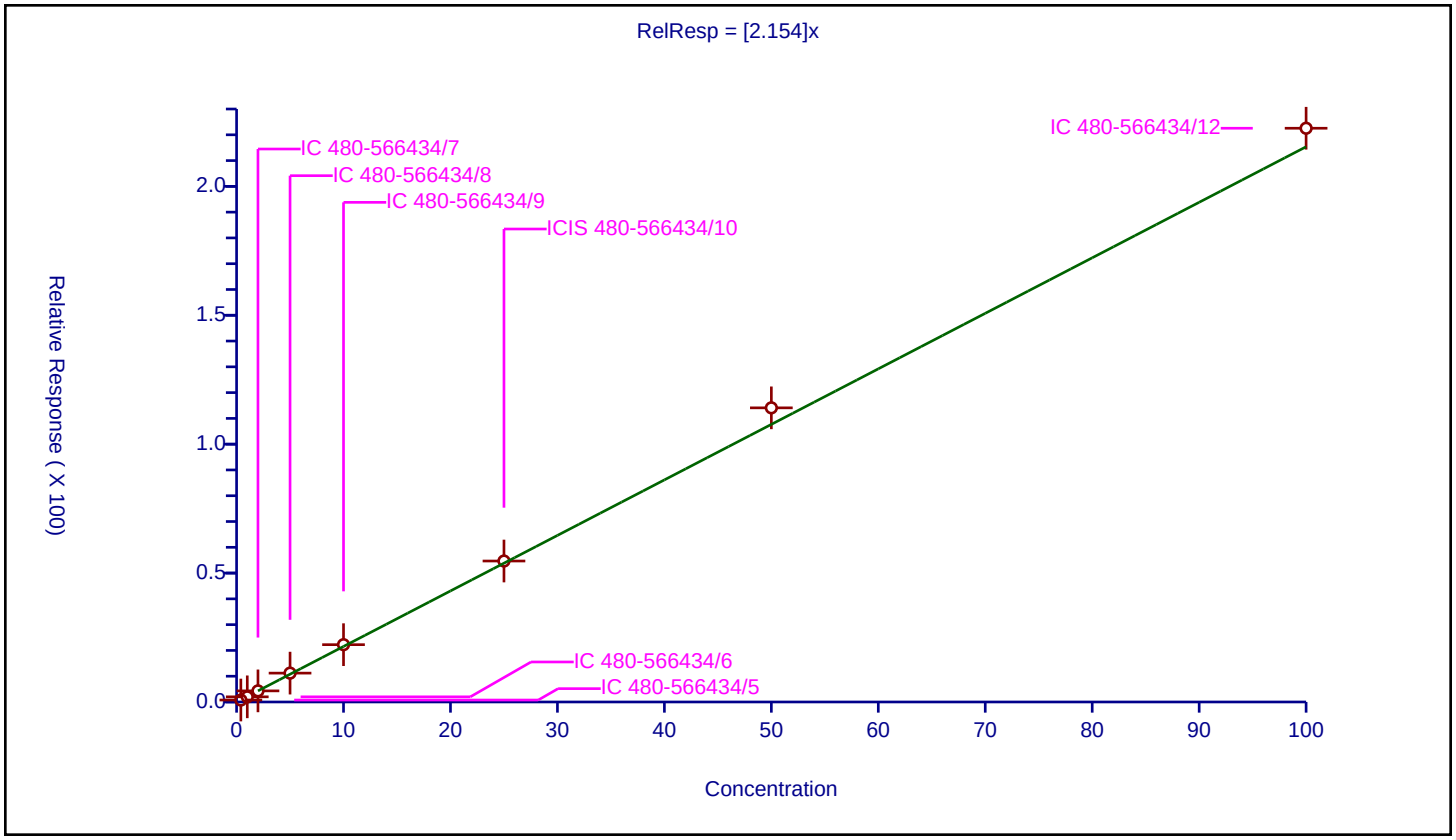
Curve Coefficients

Intercept:	0
Slope:	2.154

Error Coefficients

Standard Error:	494000
Relative Standard Error:	6.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.764972	25.0	131410.0	1.912431	Y
2	IC 480-566434/6	1.0	2.0038	25.0	127882.0	2.0038	Y
3	IC 480-566434/7	2.0	4.310963	25.0	125436.0	2.155482	Y
4	IC 480-566434/8	5.0	11.196281	25.0	123838.0	2.239256	Y
5	IC 480-566434/9	10.0	22.230119	25.0	127343.0	2.223012	Y
6	ICIS 480-566434/10	25.0	54.677976	25.0	123376.0	2.187119	Y
7	IC 480-566434/11	50.0	114.092297	25.0	127112.0	2.281846	Y
8	IC 480-566434/12	100.0	222.546056	25.0	127183.0	2.225461	Y



Calibration / 2-Chloroethyl vinyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

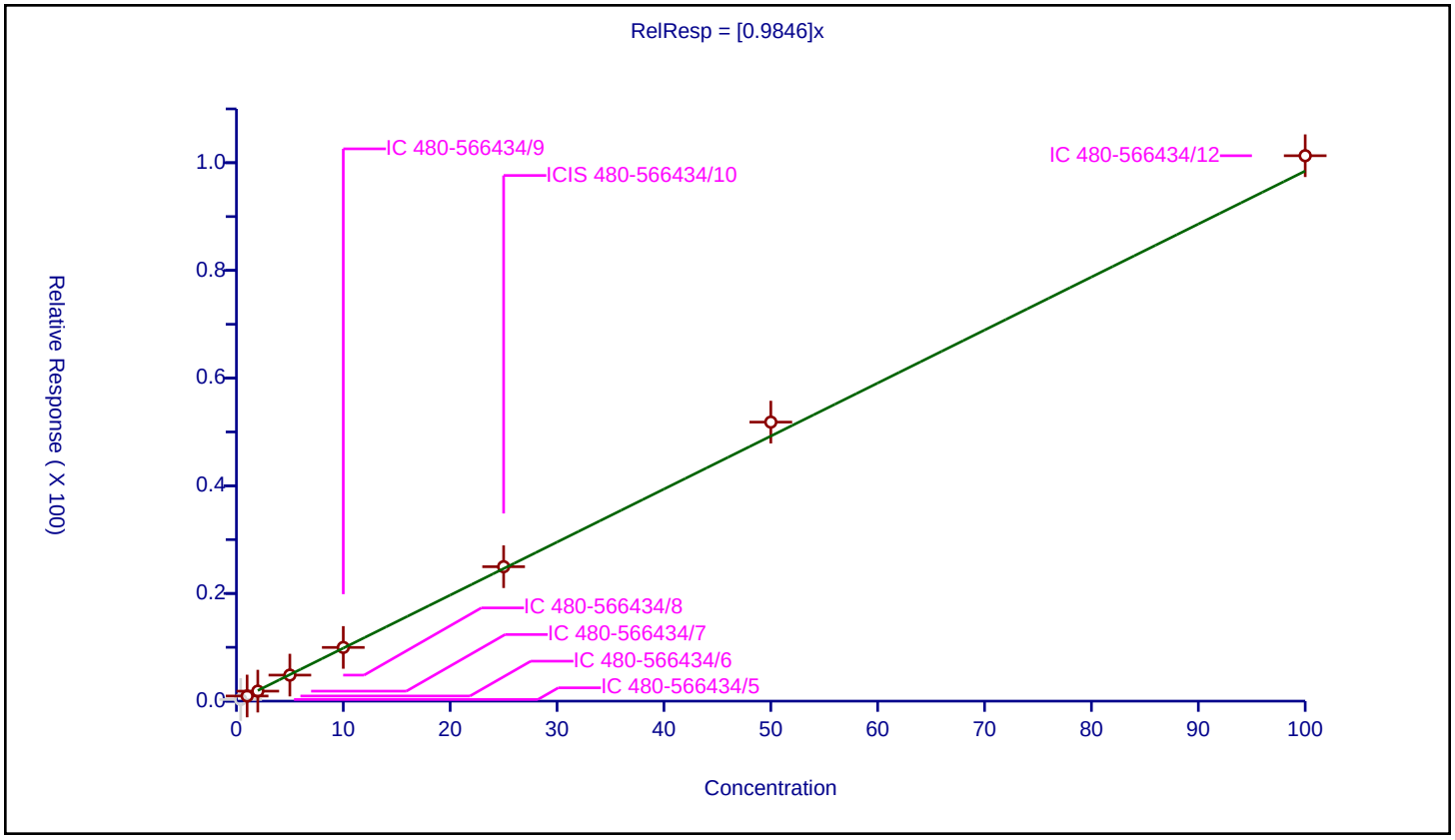
Curve Coefficients

Intercept:	0
Slope:	0.9846

Error Coefficients

Standard Error:	243000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.302679	25.0	131410.0	0.756697	N
2	IC 480-566434/6	1.0	0.951659	25.0	127882.0	0.951659	Y
3	IC 480-566434/7	2.0	1.855329	25.0	125436.0	0.927664	Y
4	IC 480-566434/8	5.0	4.836561	25.0	123838.0	0.967312	Y
5	IC 480-566434/9	10.0	9.973458	25.0	127343.0	0.997346	Y
6	ICIS 480-566434/10	25.0	24.967579	25.0	123376.0	0.998703	Y
7	IC 480-566434/11	50.0	51.827522	25.0	127112.0	1.03655	Y
8	IC 480-566434/12	100.0	101.304813	25.0	127183.0	1.013048	Y



Calibration / cis-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

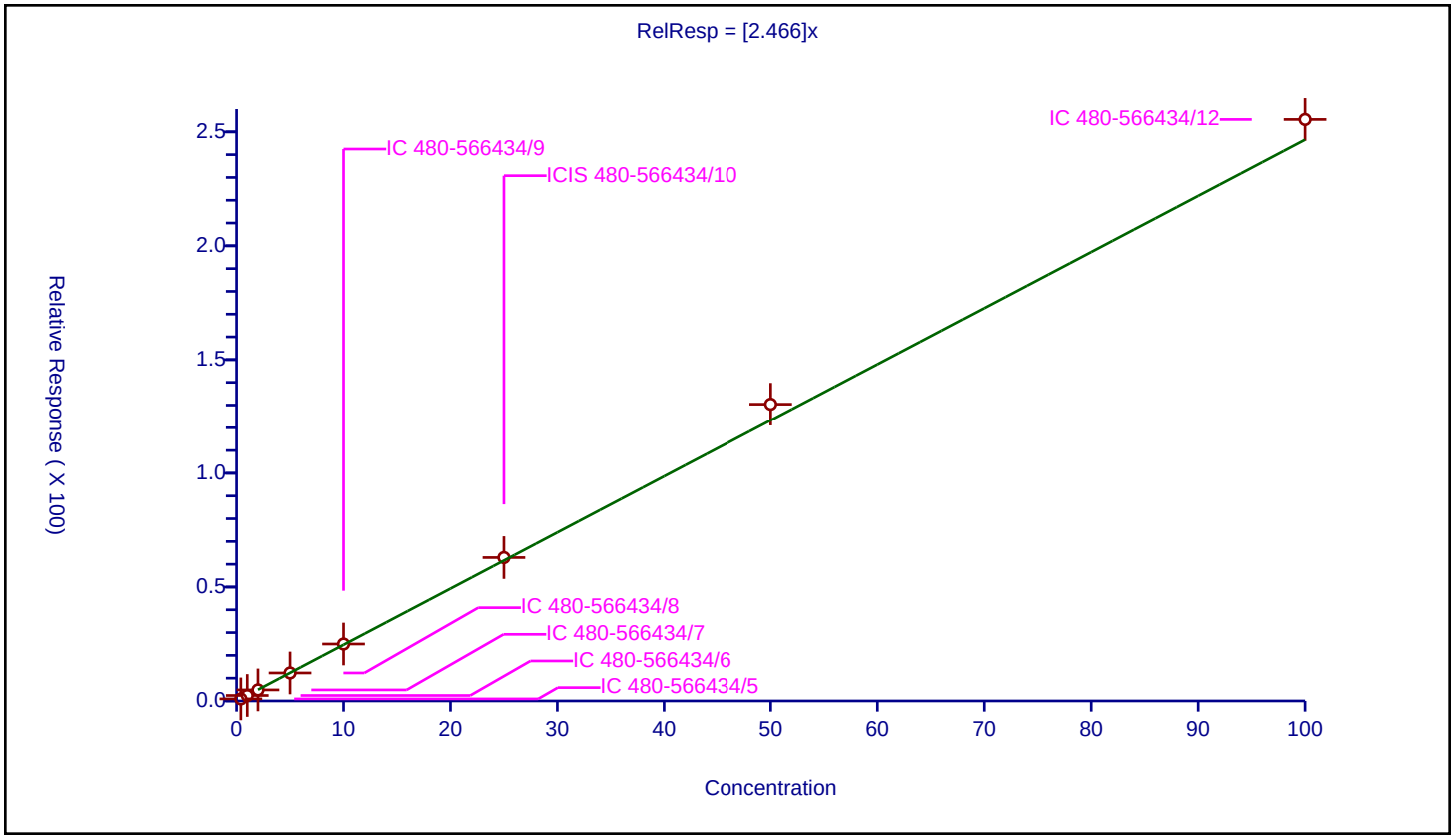
Curve Coefficients

Intercept:	0
Slope:	2.466

Error Coefficients

Standard Error:	566000
Relative Standard Error:	4.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.904421	25.0	131410.0	2.261053	Y
2	IC 480-566434/6	1.0	2.40847	25.0	127882.0	2.40847	Y
3	IC 480-566434/7	2.0	4.843107	25.0	125436.0	2.421554	Y
4	IC 480-566434/8	5.0	12.278541	25.0	123838.0	2.455708	Y
5	IC 480-566434/9	10.0	24.988024	25.0	127343.0	2.498802	Y
6	ICIS 480-566434/10	25.0	62.95106	25.0	123376.0	2.518042	Y
7	IC 480-566434/11	50.0	130.390522	25.0	127112.0	2.60781	Y
8	IC 480-566434/12	100.0	255.448252	25.0	127183.0	2.554483	Y



Calibration / 4-Methyl-2-pentanone (MIBK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

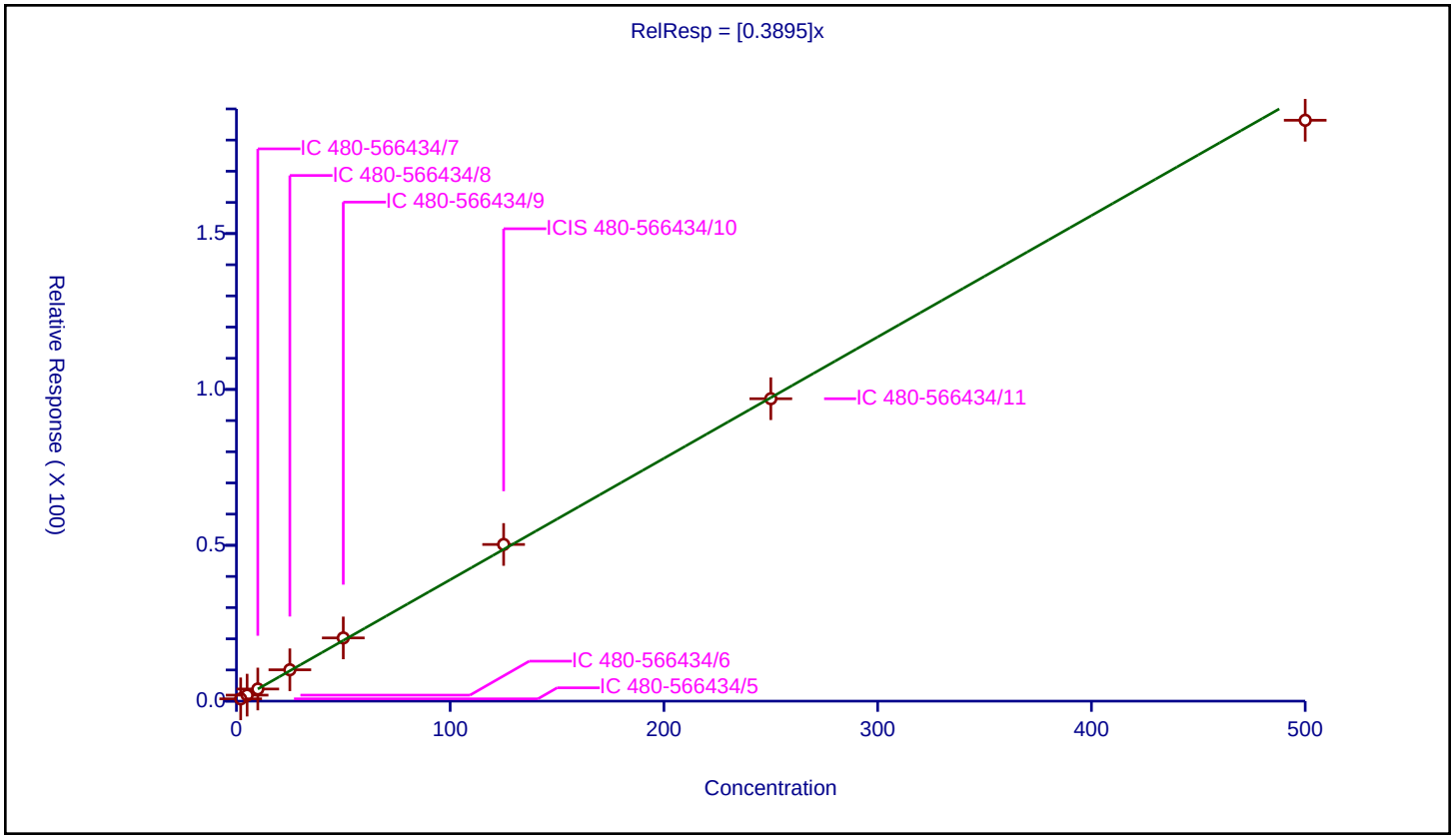
Curve Coefficients

Intercept:	0
Slope:	0.3895

Error Coefficients

Standard Error:	1810000
Relative Standard Error:	3.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	2.0	0.740871	25.0	576990.0	0.370435	Y
2	IC 480-566434/6	5.0	1.923656	25.0	544458.0	0.384731	Y
3	IC 480-566434/7	10.0	3.895766	25.0	547126.0	0.389577	Y
4	IC 480-566434/8	25.0	10.060855	25.0	534306.0	0.402434	Y
5	IC 480-566434/9	50.0	20.281304	25.0	547540.0	0.405626	Y
6	ICIS 480-566434/10	125.0	50.260046	25.0	524041.0	0.40208	Y
7	IC 480-566434/11	250.0	97.01566	25.0	553975.0	0.388063	Y
8	IC 480-566434/12	500.0	186.34747	25.0	552220.0	0.372695	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

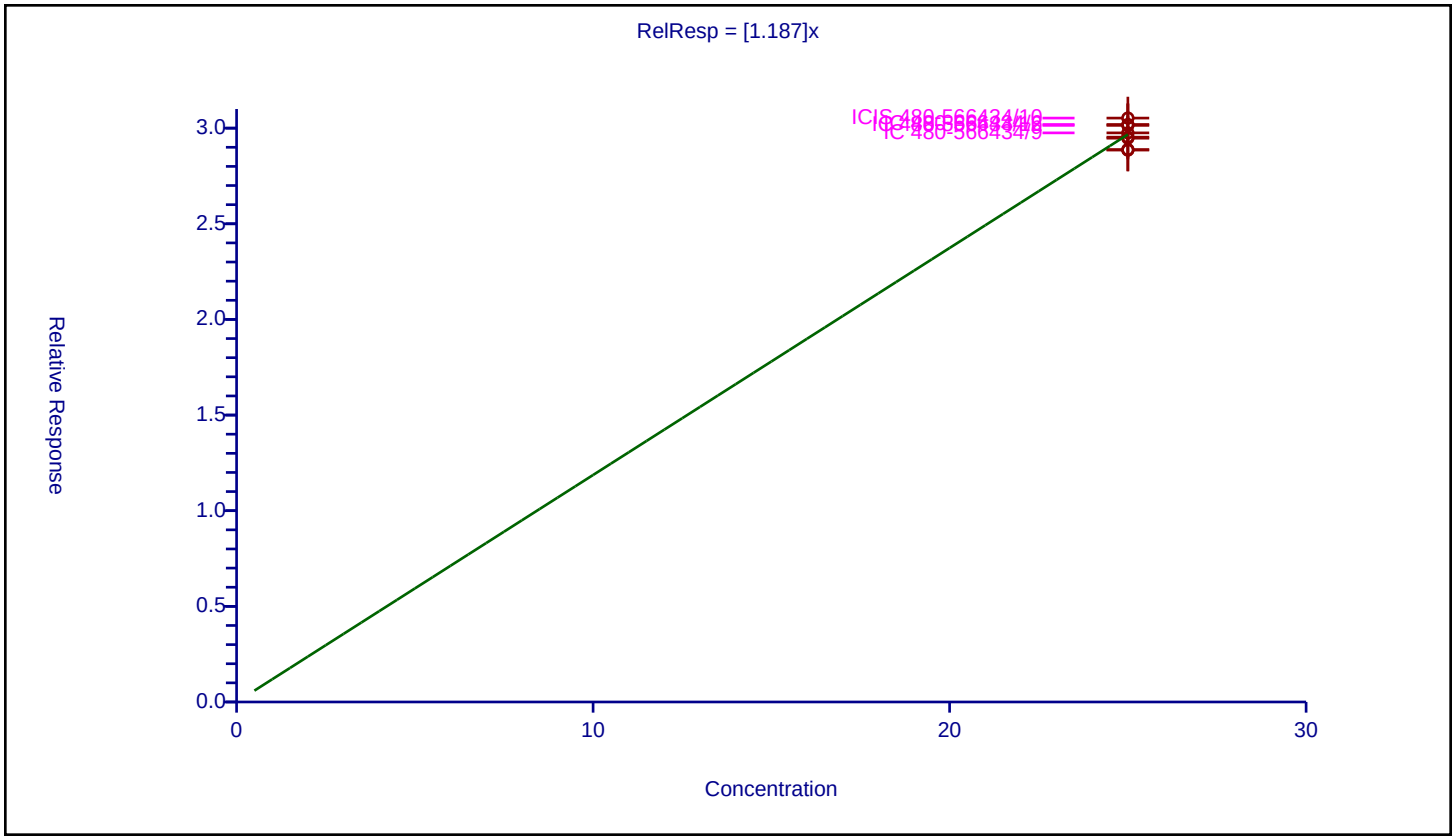
Curve Coefficients

Intercept:	0
Slope:	1.187

Error Coefficients

Standard Error:	695000
Relative Standard Error:	2.0
Correlation Coefficient:	0
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	25.0	28.87901	25.0	576990.0	1.15516	Y
2	IC 480-566434/6	25.0	30.190942	25.0	544458.0	1.207638	Y
3	IC 480-566434/7	25.0	29.529852	25.0	547126.0	1.181194	Y
4	IC 480-566434/8	25.0	29.475338	25.0	534306.0	1.179014	Y
5	IC 480-566434/9	25.0	29.751799	25.0	547540.0	1.190072	Y
6	ICIS 480-566434/10	25.0	30.525713	25.0	524041.0	1.221029	Y
7	IC 480-566434/11	25.0	28.852791	25.0	553975.0	1.154112	Y
8	IC 480-566434/12	25.0	30.14401	25.0	552220.0	1.20576	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

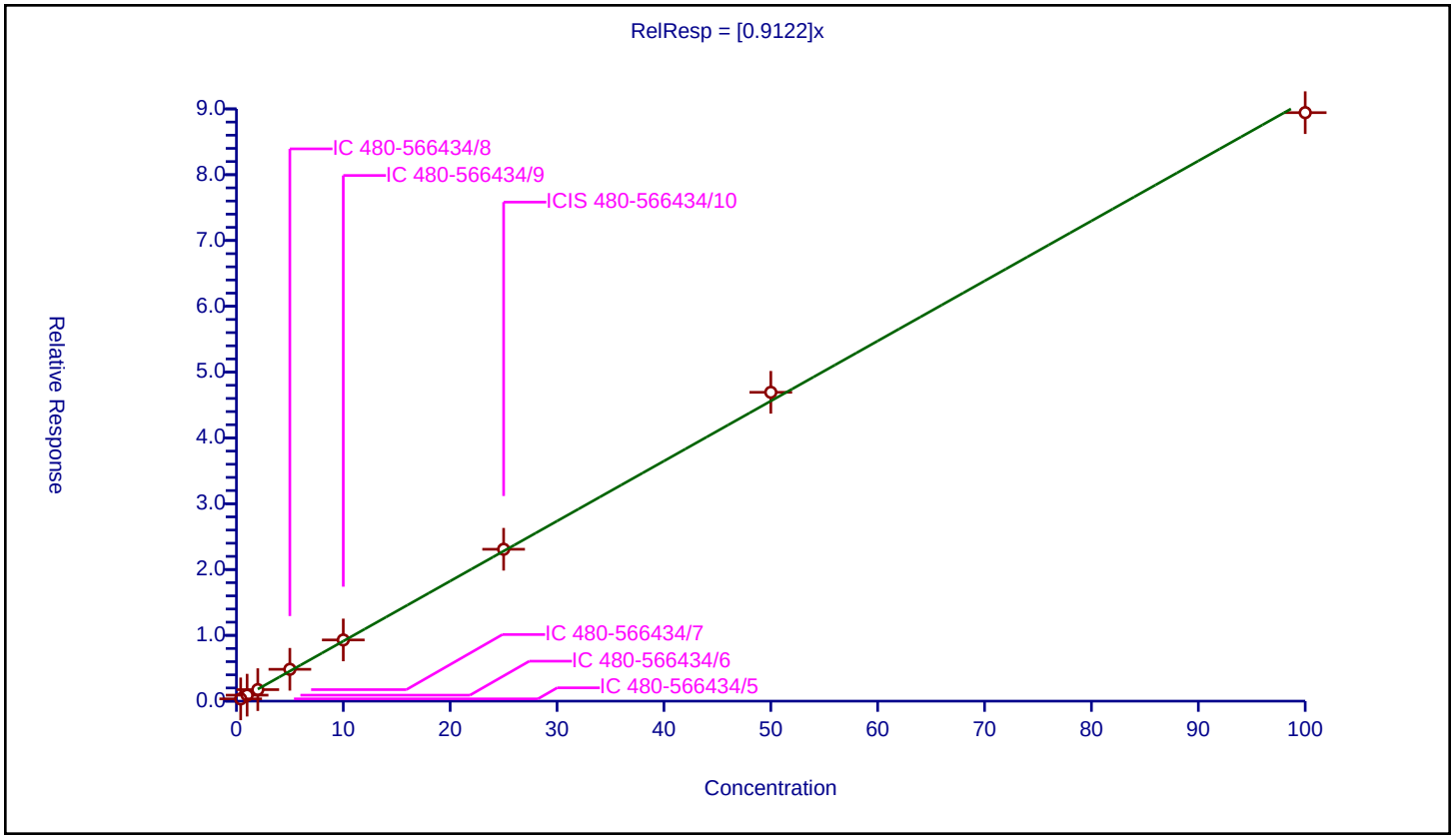
Curve Coefficients

Intercept:	0
Slope:	0.9122

Error Coefficients

Standard Error:	868000
Relative Standard Error:	3.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.344937	25.0	576990.0	0.862342	Y
2	IC 480-566434/6	1.0	0.906819	25.0	544458.0	0.906819	Y
3	IC 480-566434/7	2.0	1.7485	25.0	547126.0	0.87425	Y
4	IC 480-566434/8	5.0	4.839502	25.0	534306.0	0.9679	Y
5	IC 480-566434/9	10.0	9.298407	25.0	547540.0	0.929841	Y
6	ICIS 480-566434/10	25.0	23.081591	25.0	524041.0	0.923264	Y
7	IC 480-566434/11	50.0	46.931811	25.0	553975.0	0.938636	Y
8	IC 480-566434/12	100.0	89.430843	25.0	552220.0	0.894308	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

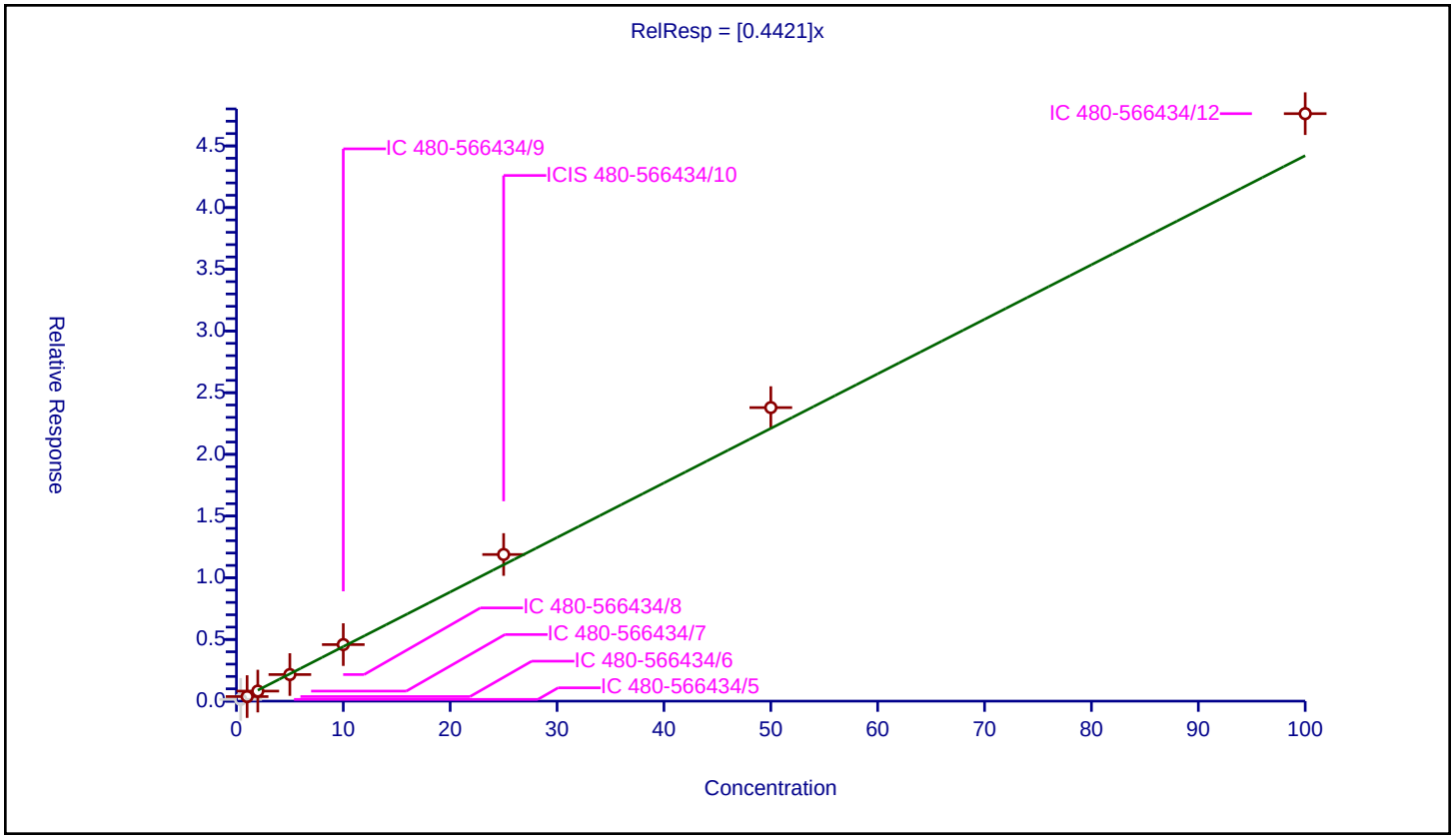
Curve Coefficients

Intercept:	0
Slope:	0.4421

Error Coefficients

Standard Error:	493000
Relative Standard Error:	9.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.14112	25.0	576990.0	0.352801	N
2	IC 480-566434/6	1.0	0.370552	25.0	544458.0	0.370552	Y
3	IC 480-566434/7	2.0	0.815169	25.0	547126.0	0.407584	Y
4	IC 480-566434/8	5.0	2.154524	25.0	534306.0	0.430905	Y
5	IC 480-566434/9	10.0	4.582999	25.0	547540.0	0.4583	Y
6	ICIS 480-566434/10	25.0	11.884375	25.0	524041.0	0.475375	Y
7	IC 480-566434/11	50.0	23.791958	25.0	553975.0	0.475839	Y
8	IC 480-566434/12	100.0	47.612998	25.0	552220.0	0.47613	Y



Calibration / trans-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

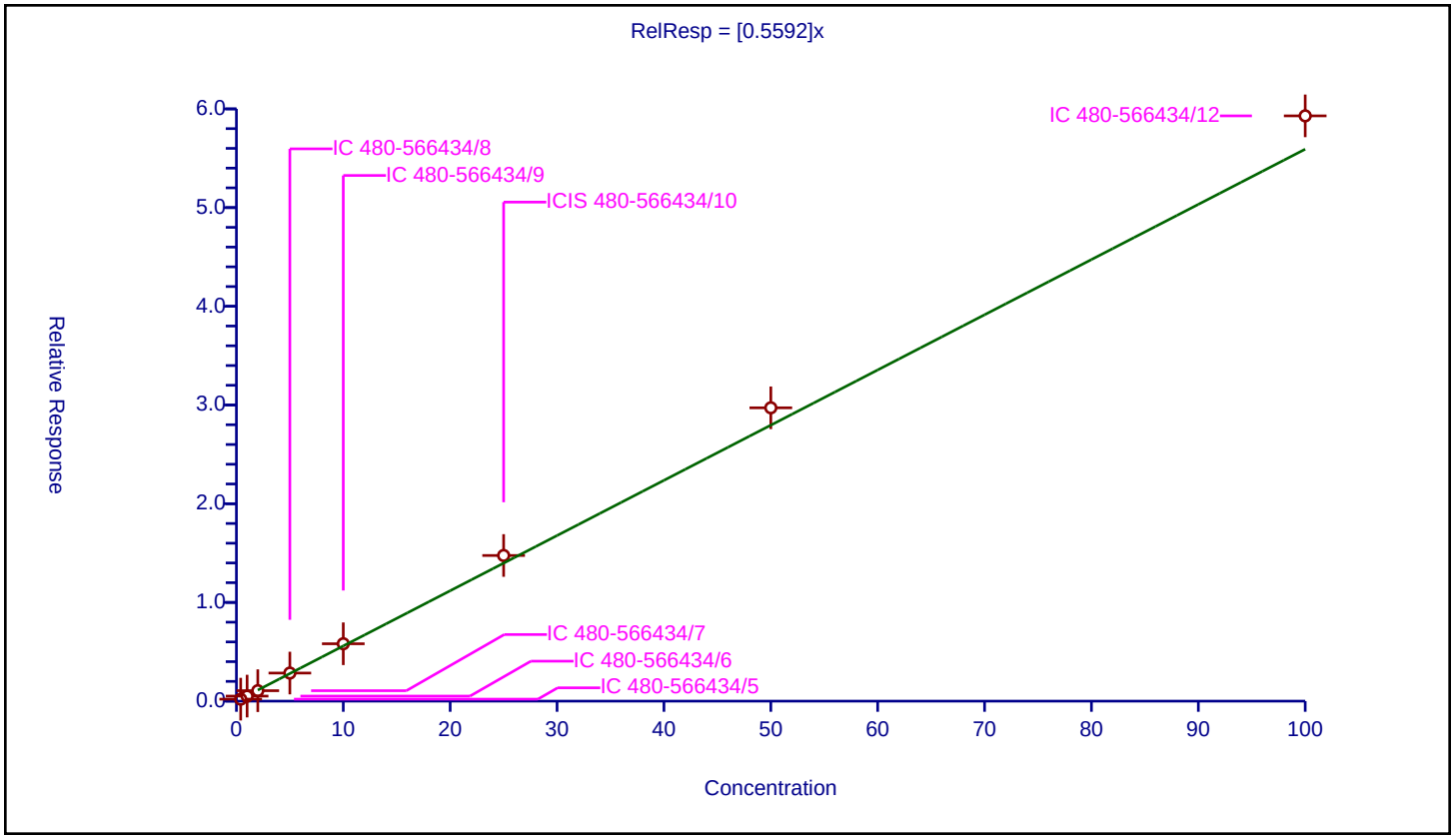
Curve Coefficients

Intercept:	0
Slope:	0.5592

Error Coefficients

Standard Error:	569000
Relative Standard Error:	6.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.202257	25.0	576990.0	0.505641	Y
2	IC 480-566434/6	1.0	0.510783	25.0	544458.0	0.510783	Y
3	IC 480-566434/7	2.0	1.057937	25.0	547126.0	0.528969	Y
4	IC 480-566434/8	5.0	2.846122	25.0	534306.0	0.569224	Y
5	IC 480-566434/9	10.0	5.813685	25.0	547540.0	0.581368	Y
6	ICIS 480-566434/10	25.0	14.755239	25.0	524041.0	0.59021	Y
7	IC 480-566434/11	50.0	29.717677	25.0	553975.0	0.594354	Y
8	IC 480-566434/12	100.0	59.292764	25.0	552220.0	0.592928	Y



Calibration / 1,1,2-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

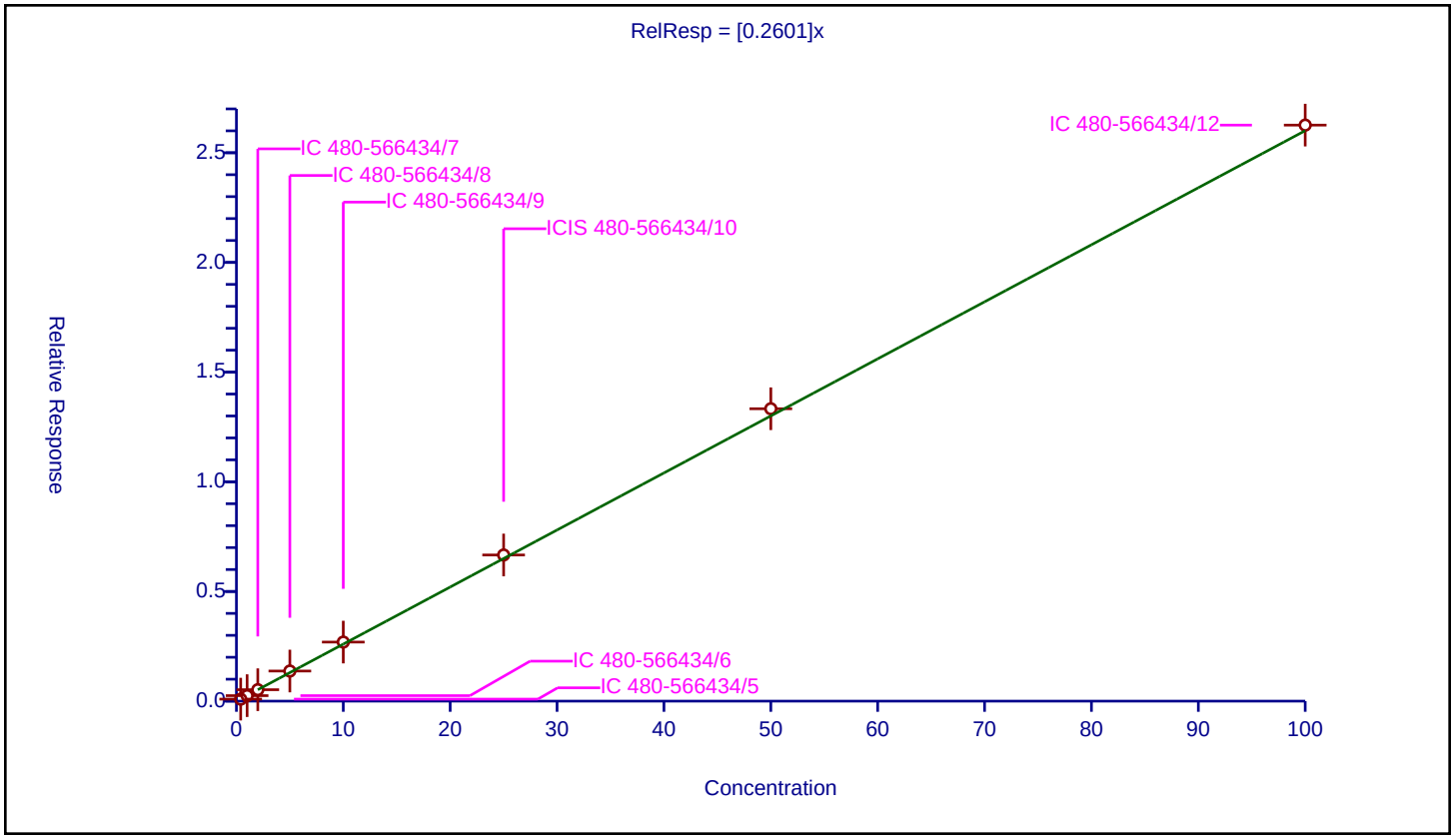
Curve Coefficients

Intercept:	0
Slope:	0.2601

Error Coefficients

Standard Error:	253000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.091726	25.0	576990.0	0.229315	Y
2	IC 480-566434/6	1.0	0.251121	25.0	544458.0	0.251121	Y
3	IC 480-566434/7	2.0	0.520995	25.0	547126.0	0.260498	Y
4	IC 480-566434/8	5.0	1.372996	25.0	534306.0	0.274599	Y
5	IC 480-566434/9	10.0	2.692771	25.0	547540.0	0.269277	Y
6	ICIS 480-566434/10	25.0	6.663219	25.0	524041.0	0.266529	Y
7	IC 480-566434/11	50.0	13.330114	25.0	553975.0	0.266602	Y
8	IC 480-566434/12	100.0	26.260503	25.0	552220.0	0.262605	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

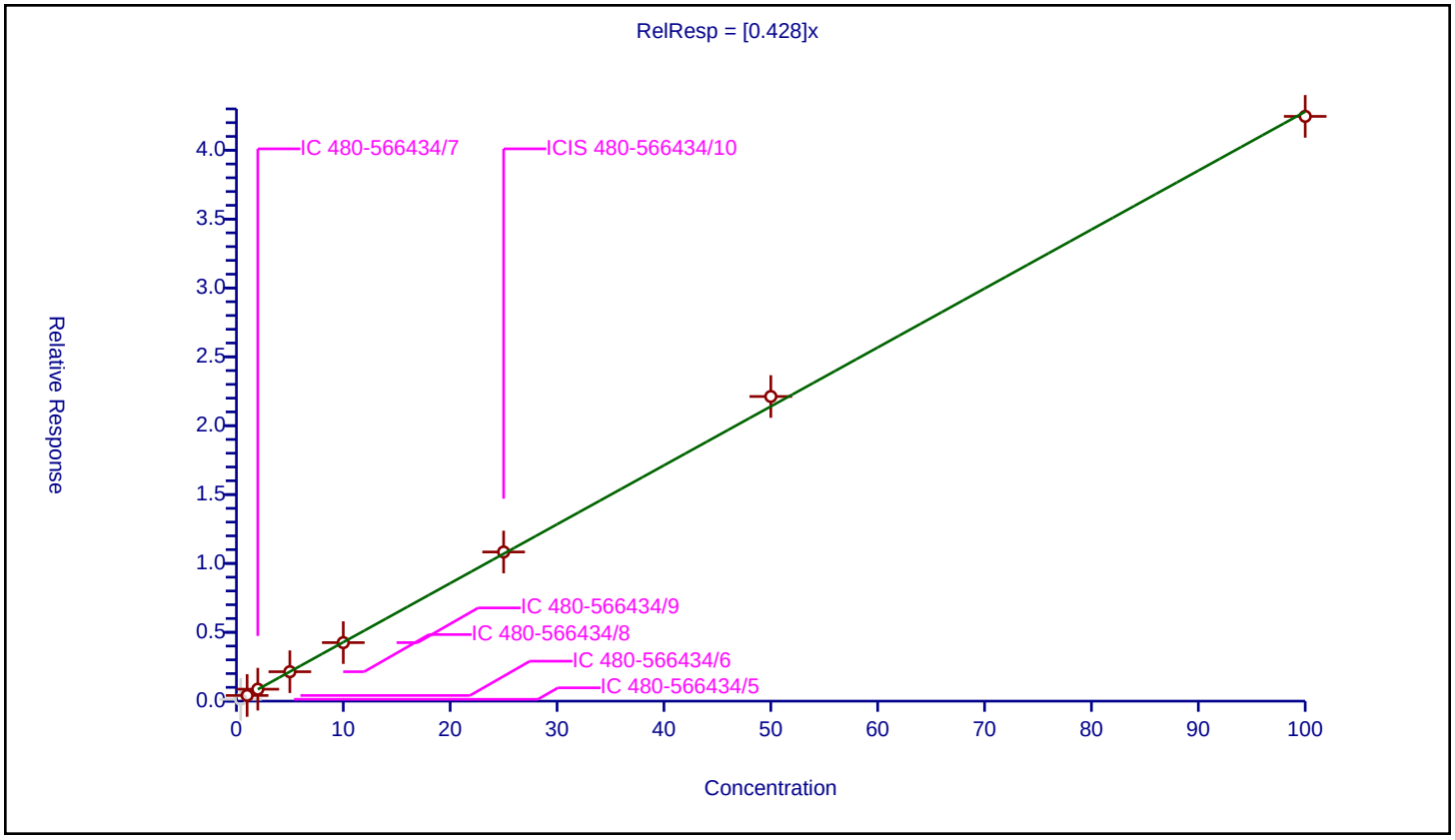
Curve Coefficients

Intercept:	0
Slope:	0.428

Error Coefficients

Standard Error:	444000
Relative Standard Error:	2.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.132931	25.0	576990.0	0.332328	N
2	IC 480-566434/6	1.0	0.410362	25.0	544458.0	0.410362	Y
3	IC 480-566434/7	2.0	0.866528	25.0	547126.0	0.433264	Y
4	IC 480-566434/8	5.0	2.135434	25.0	534306.0	0.427087	Y
5	IC 480-566434/9	10.0	4.249416	25.0	547540.0	0.424942	Y
6	ICIS 480-566434/10	25.0	10.829878	25.0	524041.0	0.433195	Y
7	IC 480-566434/11	50.0	22.118688	25.0	553975.0	0.442374	Y
8	IC 480-566434/12	100.0	42.456992	25.0	552220.0	0.42457	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

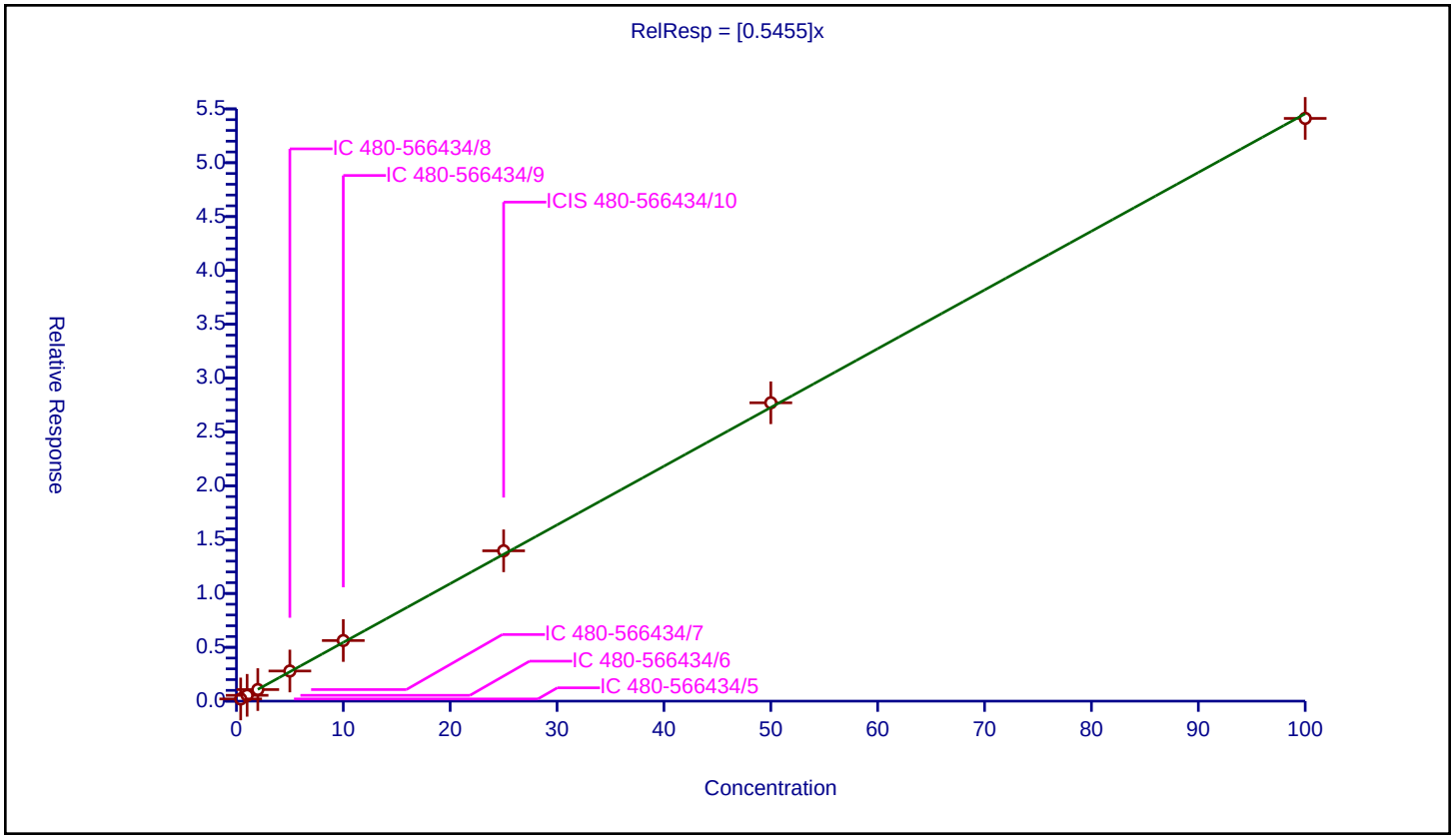
Curve Coefficients

Intercept:	0
Slope:	0.5455

Error Coefficients

Standard Error:	522000
Relative Standard Error:	3.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.203556	25.0	576990.0	0.508891	Y
2	IC 480-566434/6	1.0	0.540721	25.0	544458.0	0.540721	Y
3	IC 480-566434/7	2.0	1.075849	25.0	547126.0	0.537925	Y
4	IC 480-566434/8	5.0	2.799098	25.0	534306.0	0.55982	Y
5	IC 480-566434/9	10.0	5.62936	25.0	547540.0	0.562936	Y
6	ICIS 480-566434/10	25.0	13.960978	25.0	524041.0	0.558439	Y
7	IC 480-566434/11	50.0	27.707794	25.0	553975.0	0.554156	Y
8	IC 480-566434/12	100.0	54.117743	25.0	552220.0	0.541177	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

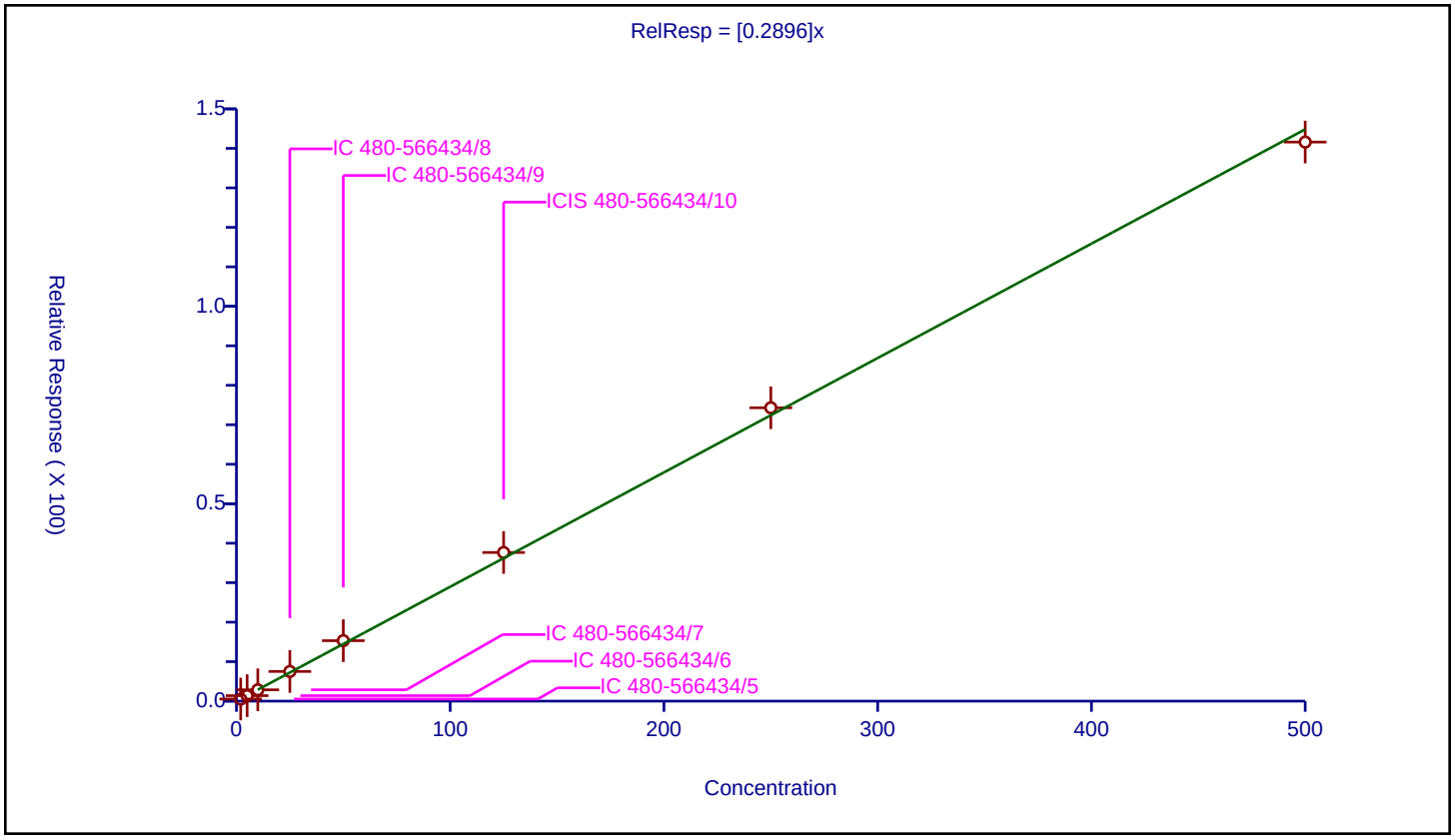
Curve Coefficients

Intercept:	0
Slope:	0.2896

Error Coefficients

Standard Error:	1380000
Relative Standard Error:	4.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	2.0	0.528562	25.0	576990.0	0.264281	Y
2	IC 480-566434/6	5.0	1.387527	25.0	544458.0	0.277505	Y
3	IC 480-566434/7	10.0	2.867438	25.0	547126.0	0.286744	Y
4	IC 480-566434/8	25.0	7.515169	25.0	534306.0	0.300607	Y
5	IC 480-566434/9	50.0	15.3192	25.0	547540.0	0.306384	Y
6	ICIS 480-566434/10	125.0	37.653542	25.0	524041.0	0.301228	Y
7	IC 480-566434/11	250.0	74.306602	25.0	553975.0	0.297226	Y
8	IC 480-566434/12	500.0	141.598819	25.0	552220.0	0.283198	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

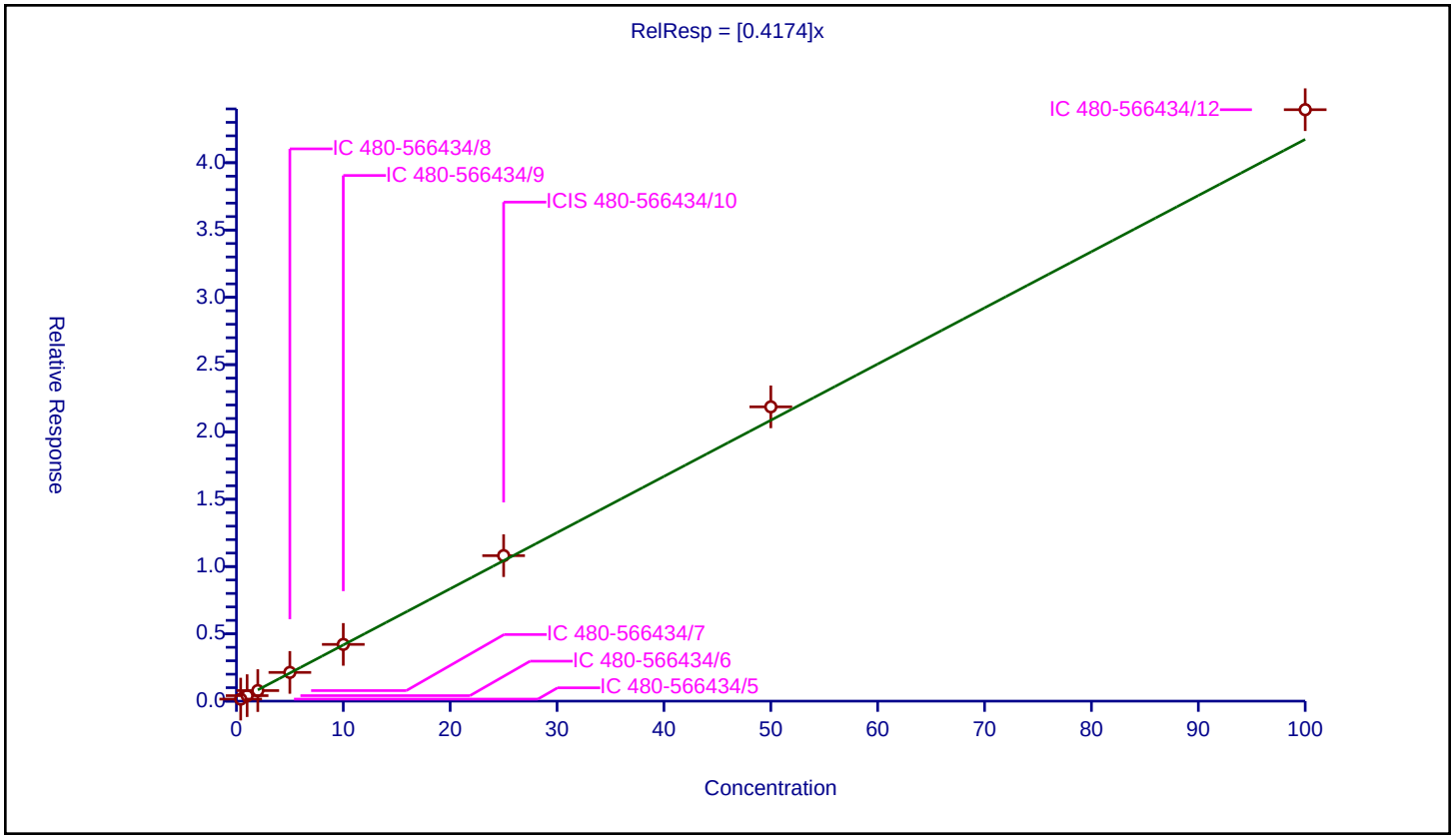
Curve Coefficients

Intercept:	0
Slope:	0.4174

Error Coefficients

Standard Error:	421000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.151779	25.0	576990.0	0.379448	Y
2	IC 480-566434/6	1.0	0.409536	25.0	544458.0	0.409536	Y
3	IC 480-566434/7	2.0	0.785331	25.0	547126.0	0.392665	Y
4	IC 480-566434/8	5.0	2.133422	25.0	534306.0	0.426684	Y
5	IC 480-566434/9	10.0	4.216587	25.0	547540.0	0.421659	Y
6	ICIS 480-566434/10	25.0	10.809316	25.0	524041.0	0.432373	Y
7	IC 480-566434/11	50.0	21.864705	25.0	553975.0	0.437294	Y
8	IC 480-566434/12	100.0	43.940957	25.0	552220.0	0.43941	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

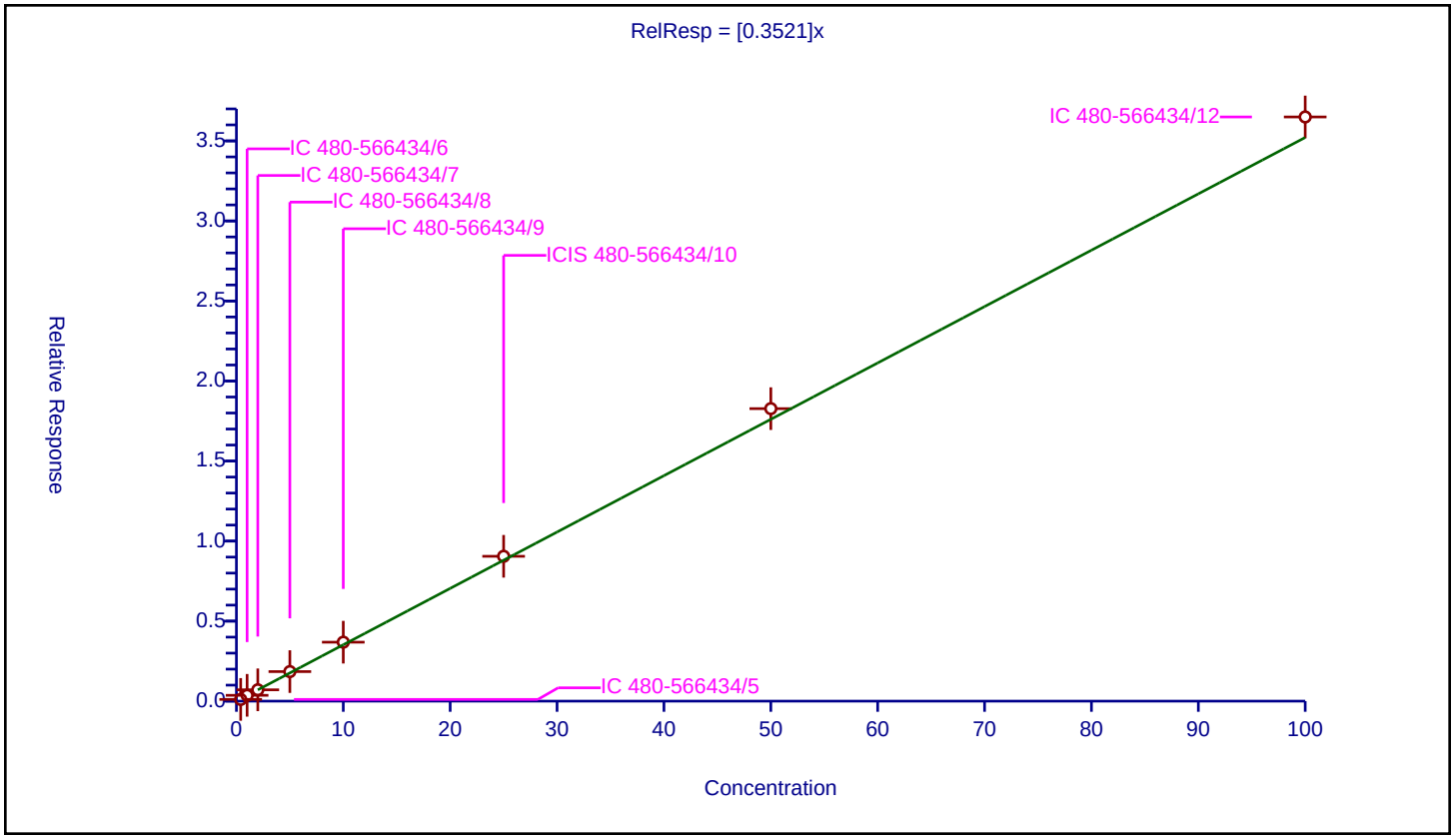
Curve Coefficients

Intercept:	0
Slope:	0.3521

Error Coefficients

Standard Error:	350000
Relative Standard Error:	9.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.107671	25.0	576990.0	0.269177	Y
2	IC 480-566434/6	1.0	0.364078	25.0	544458.0	0.364078	Y
3	IC 480-566434/7	2.0	0.707607	25.0	547126.0	0.353803	Y
4	IC 480-566434/8	5.0	1.846788	25.0	534306.0	0.369358	Y
5	IC 480-566434/9	10.0	3.682516	25.0	547540.0	0.368252	Y
6	ICIS 480-566434/10	25.0	9.049435	25.0	524041.0	0.361977	Y
7	IC 480-566434/11	50.0	18.274561	25.0	553975.0	0.365491	Y
8	IC 480-566434/12	100.0	36.495418	25.0	552220.0	0.364954	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

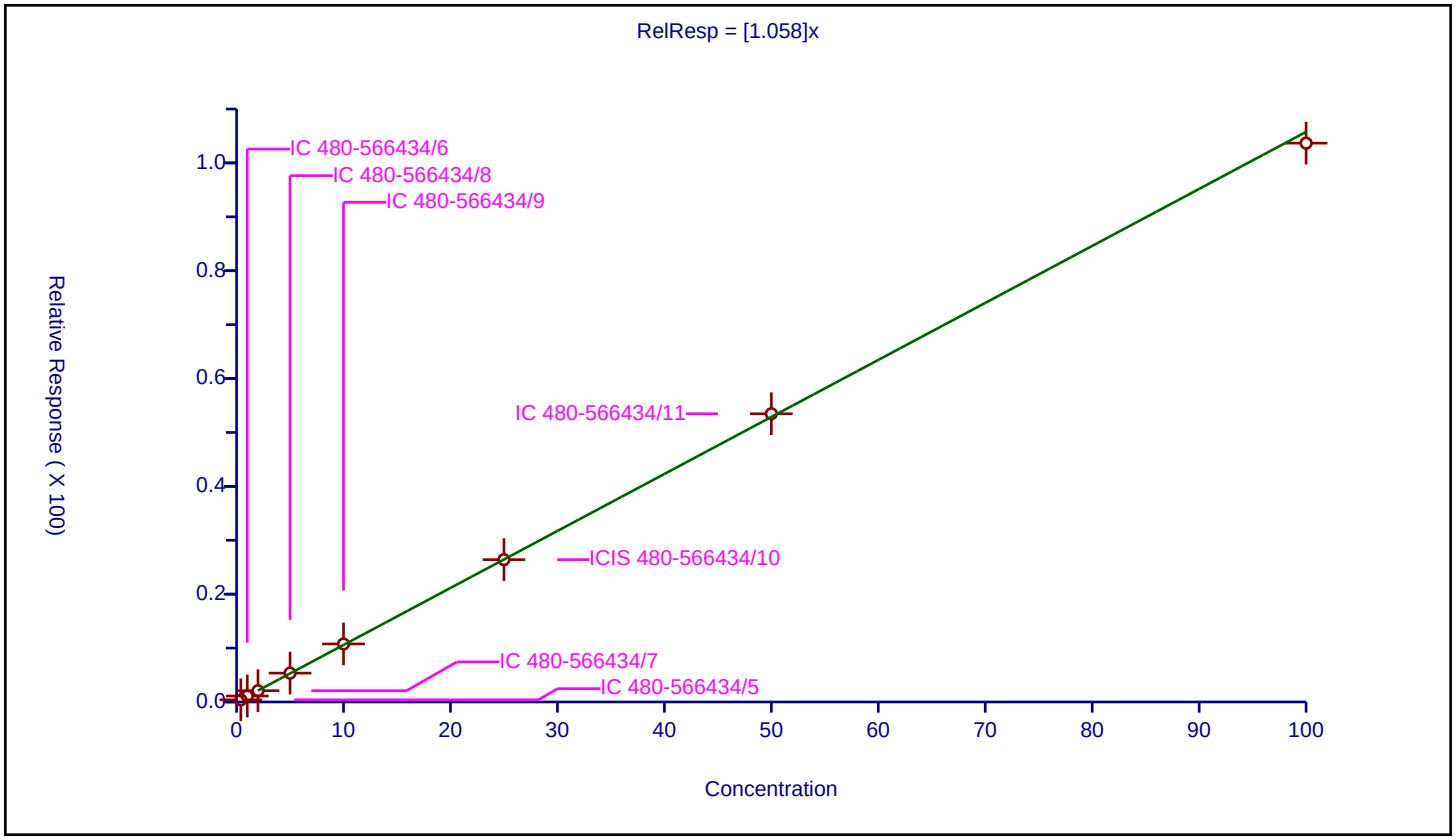
Curve Coefficients

Intercept:	0
Slope:	1.058

Error Coefficients

Standard Error:	1000000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.398664	25.0	576990.0	0.996659	Y
2	IC 480-566434/6	1.0	1.10812	25.0	544458.0	1.10812	Y
3	IC 480-566434/7	2.0	2.089829	25.0	547126.0	1.044915	Y
4	IC 480-566434/8	5.0	5.357043	25.0	534306.0	1.071409	Y
5	IC 480-566434/9	10.0	10.768574	25.0	547540.0	1.076857	Y
6	ICIS 480-566434/10	25.0	26.403087	25.0	524041.0	1.056123	Y
7	IC 480-566434/11	50.0	53.469335	25.0	553975.0	1.069387	Y
8	IC 480-566434/12	100.0	103.668103	25.0	552220.0	1.036681	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

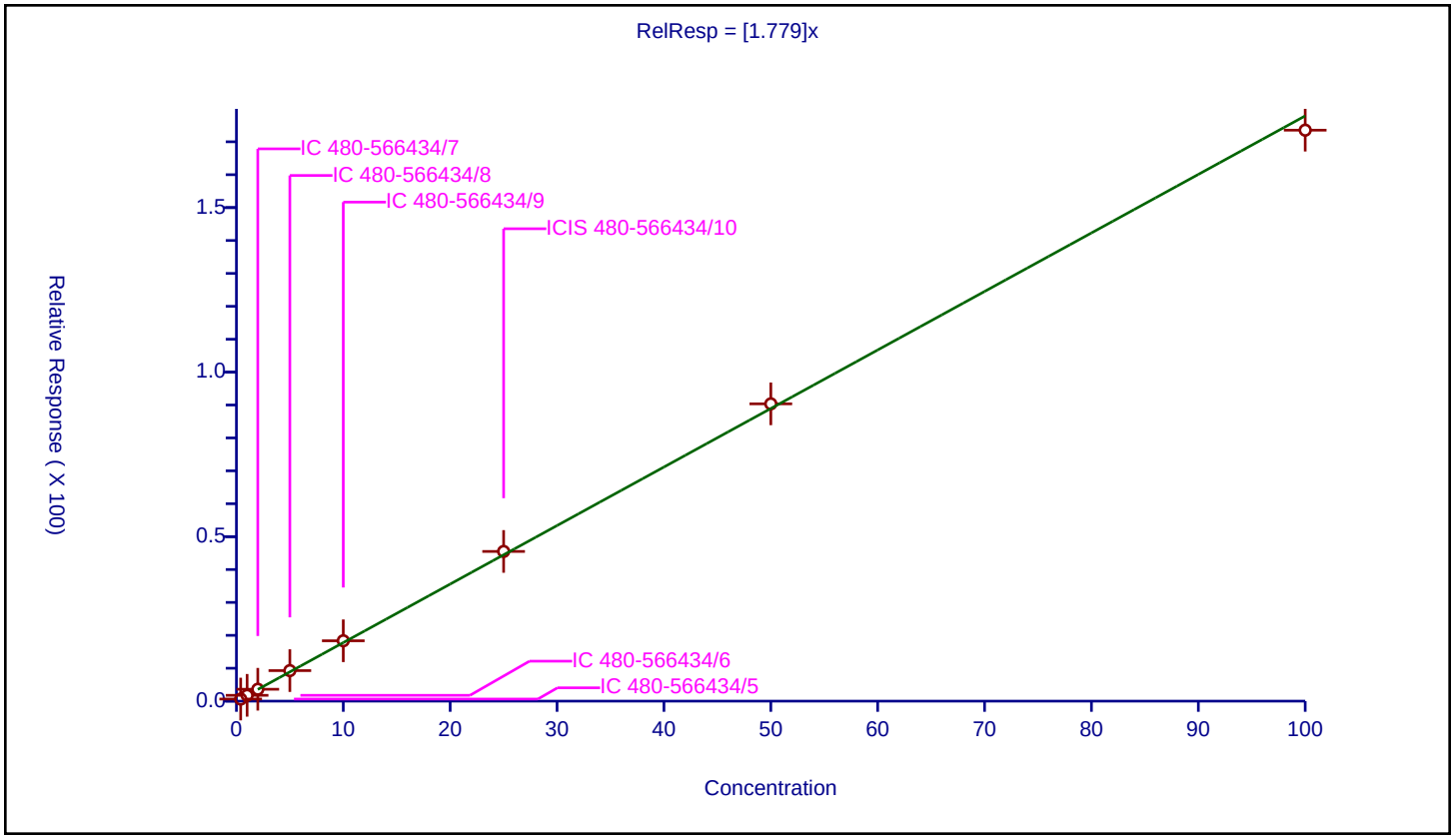
Curve Coefficients

Intercept:	0
Slope:	1.779

Error Coefficients

Standard Error:	1680000
Relative Standard Error:	4.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.639266	25.0	576990.0	1.598165	Y
2	IC 480-566434/6	1.0	1.772267	25.0	544458.0	1.772267	Y
3	IC 480-566434/7	2.0	3.61265	25.0	547126.0	1.806325	Y
4	IC 480-566434/8	5.0	9.280169	25.0	534306.0	1.856034	Y
5	IC 480-566434/9	10.0	18.347929	25.0	547540.0	1.834793	Y
6	ICIS 480-566434/10	25.0	45.498778	25.0	524041.0	1.819951	Y
7	IC 480-566434/11	50.0	90.354935	25.0	553975.0	1.807099	Y
8	IC 480-566434/12	100.0	173.533872	25.0	552220.0	1.735339	Y



Calibration / 1,1,1,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

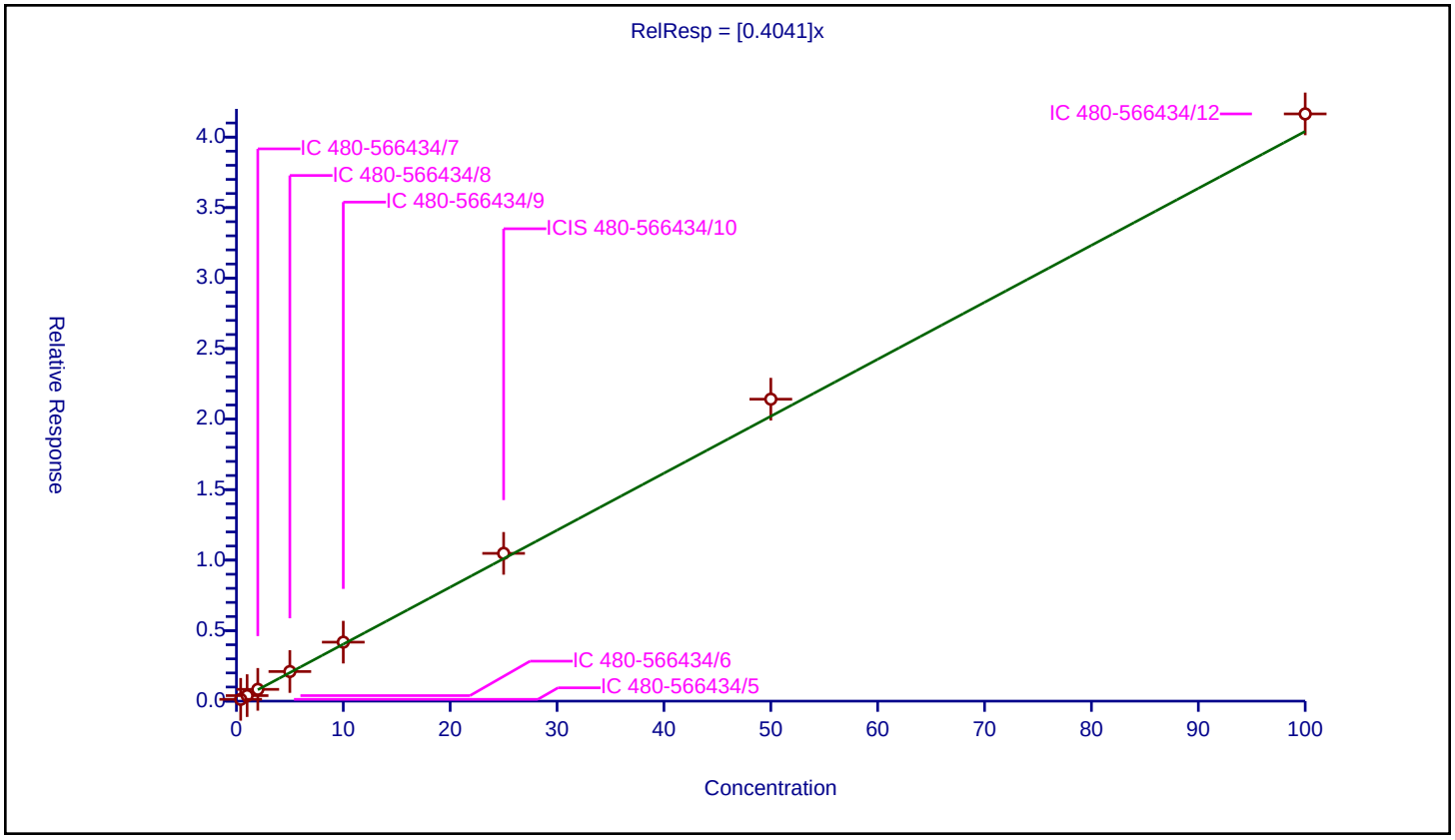
Curve Coefficients

Intercept:	0
Slope:	0.4041

Error Coefficients

Standard Error:	402000
Relative Standard Error:	8.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.128035	25.0	576990.0	0.320088	Y
2	IC 480-566434/6	1.0	0.39273	25.0	544458.0	0.39273	Y
3	IC 480-566434/7	2.0	0.835685	25.0	547126.0	0.417843	Y
4	IC 480-566434/8	5.0	2.09847	25.0	534306.0	0.419694	Y
5	IC 480-566434/9	10.0	4.181932	25.0	547540.0	0.418193	Y
6	ICIS 480-566434/10	25.0	10.479428	25.0	524041.0	0.419177	Y
7	IC 480-566434/11	50.0	21.41491	25.0	553975.0	0.428298	Y
8	IC 480-566434/12	100.0	41.645449	25.0	552220.0	0.416454	Y



Calibration / m-Xylene & p-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

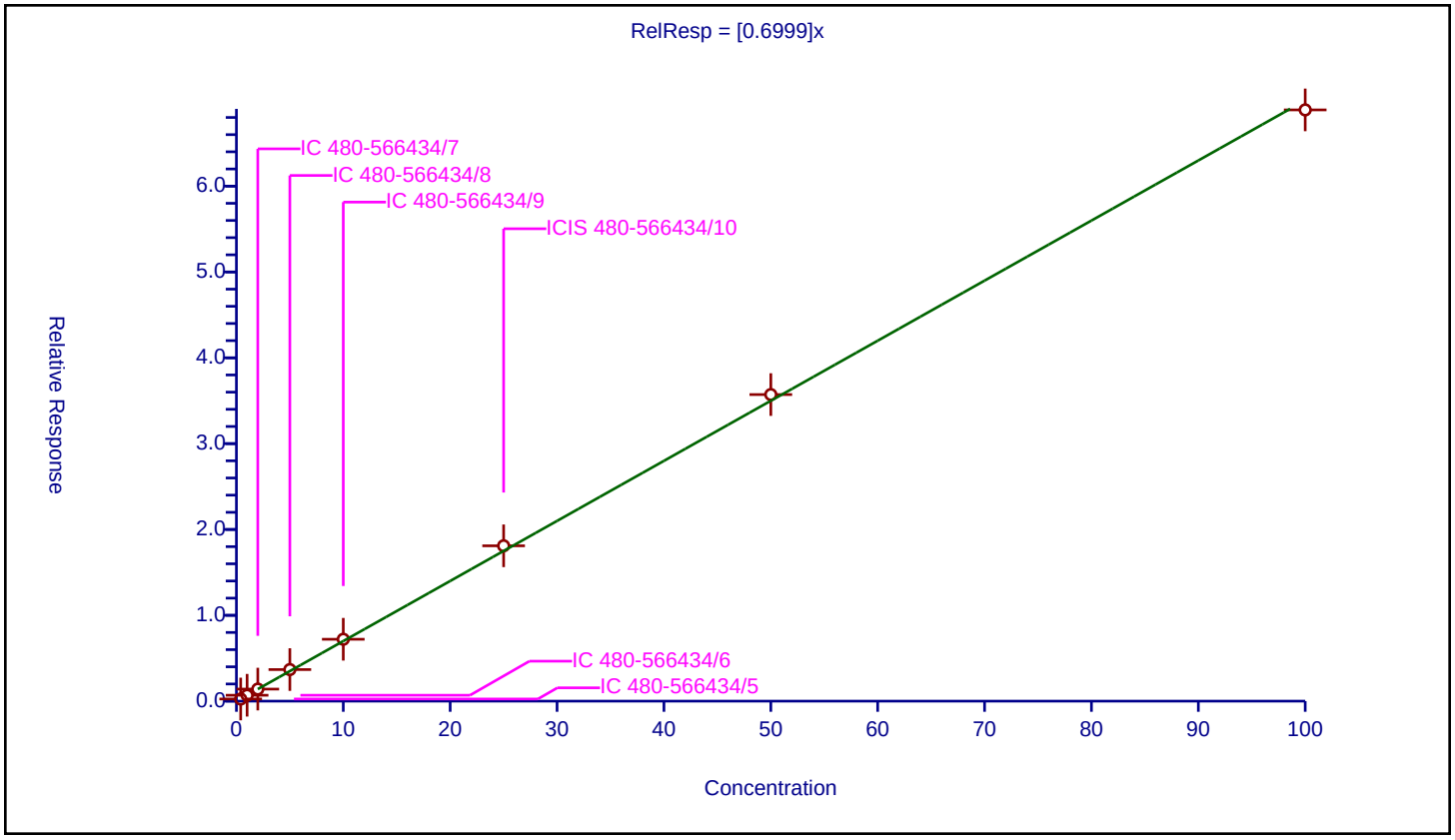
Curve Coefficients

Intercept:	0
Slope:	0.6999

Error Coefficients

Standard Error:	667000
Relative Standard Error:	4.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.250784	25.0	576990.0	0.626961	Y
2	IC 480-566434/6	1.0	0.686003	25.0	544458.0	0.686003	Y
3	IC 480-566434/7	2.0	1.404201	25.0	547126.0	0.702101	Y
4	IC 480-566434/8	5.0	3.679072	25.0	534306.0	0.735814	Y
5	IC 480-566434/9	10.0	7.210752	25.0	547540.0	0.721075	Y
6	ICIS 480-566434/10	25.0	18.097677	25.0	524041.0	0.723907	Y
7	IC 480-566434/11	50.0	35.717451	25.0	553975.0	0.714349	Y
8	IC 480-566434/12	100.0	68.8807	25.0	552220.0	0.688807	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

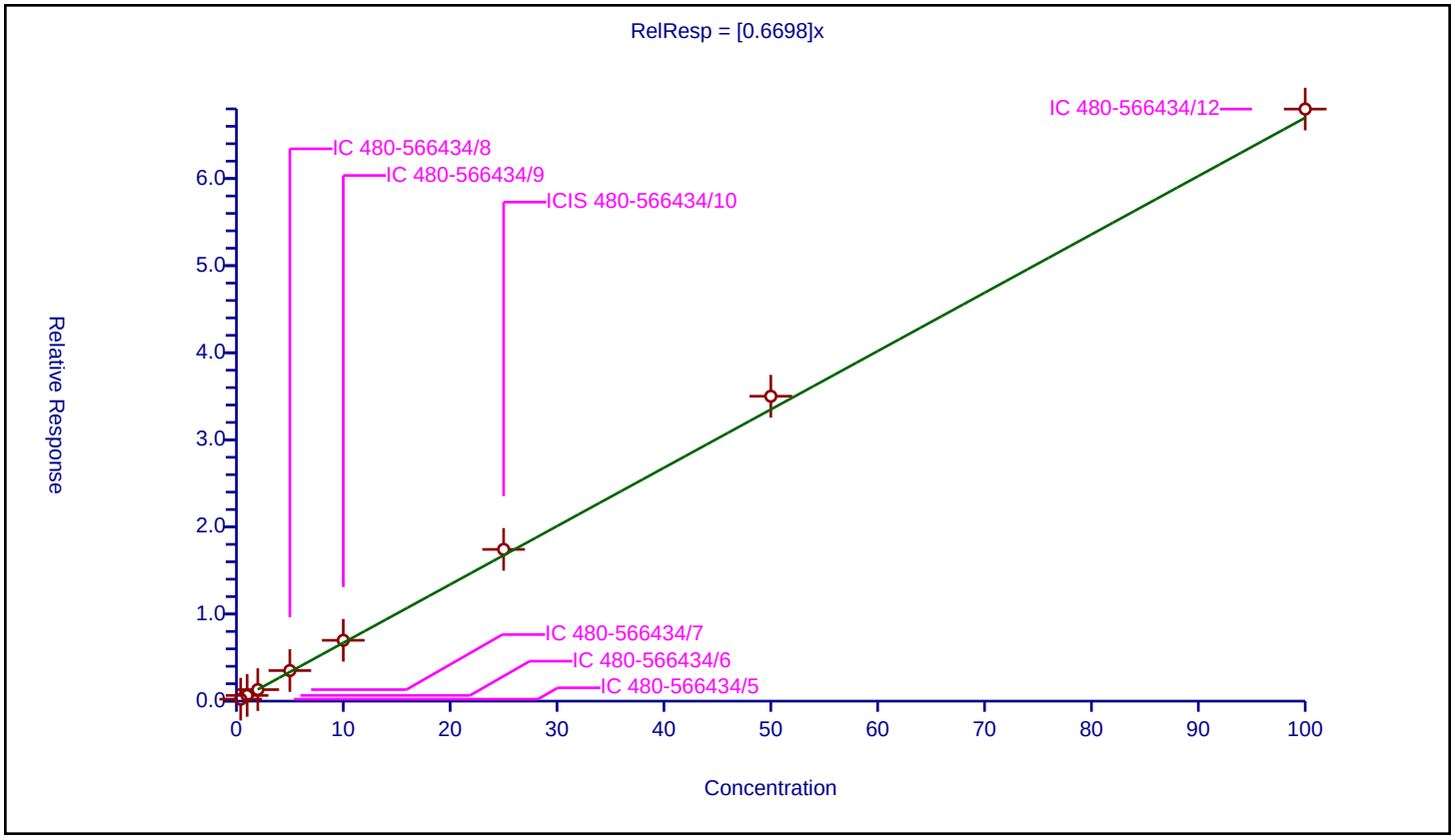
Curve Coefficients

Intercept:	0
Slope:	0.6698

Error Coefficients

Standard Error:	657000
Relative Standard Error:	7.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.225437	25.0	576990.0	0.563593	Y
2	IC 480-566434/6	1.0	0.655882	25.0	544458.0	0.655882	Y
3	IC 480-566434/7	2.0	1.322136	25.0	547126.0	0.661068	Y
4	IC 480-566434/8	5.0	3.512454	25.0	534306.0	0.702491	Y
5	IC 480-566434/9	10.0	6.985517	25.0	547540.0	0.698552	Y
6	ICIS 480-566434/10	25.0	17.42335	25.0	524041.0	0.696934	Y
7	IC 480-566434/11	50.0	35.009928	25.0	553975.0	0.700199	Y
8	IC 480-566434/12	100.0	67.979926	25.0	552220.0	0.679799	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

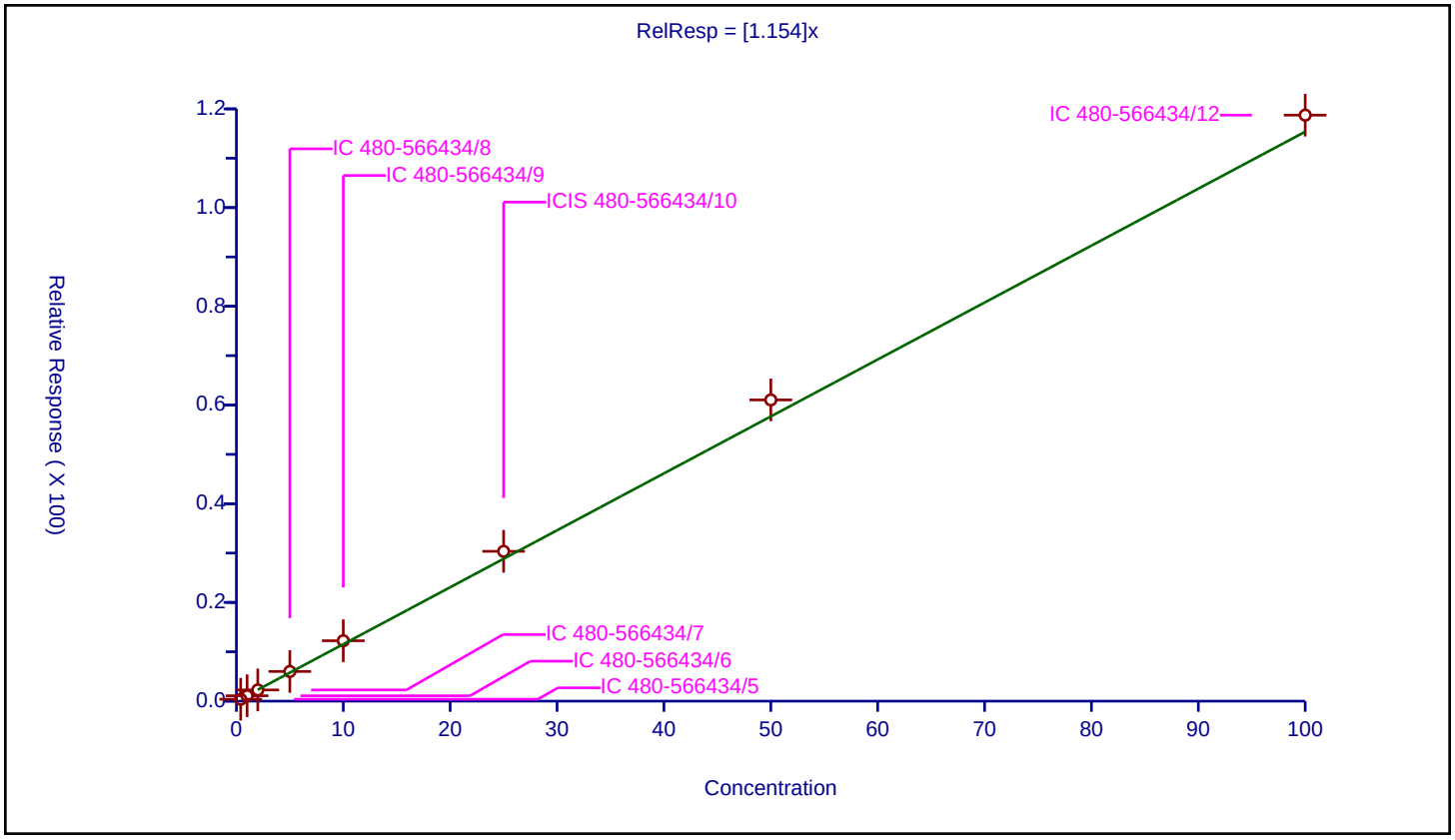
Curve Coefficients

Intercept:	0
Slope:	1.154

Error Coefficients

Standard Error:	1150000
Relative Standard Error:	8.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.383802	25.0	576990.0	0.959505	Y
2	IC 480-566434/6	1.0	1.08709	25.0	544458.0	1.08709	Y
3	IC 480-566434/7	2.0	2.267119	25.0	547126.0	1.13356	Y
4	IC 480-566434/8	5.0	6.016449	25.0	534306.0	1.20329	Y
5	IC 480-566434/9	10.0	12.238238	25.0	547540.0	1.223824	Y
6	ICIS 480-566434/10	25.0	30.358073	25.0	524041.0	1.214323	Y
7	IC 480-566434/11	50.0	61.031454	25.0	553975.0	1.220629	Y
8	IC 480-566434/12	100.0	118.730488	25.0	552220.0	1.187305	Y



Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

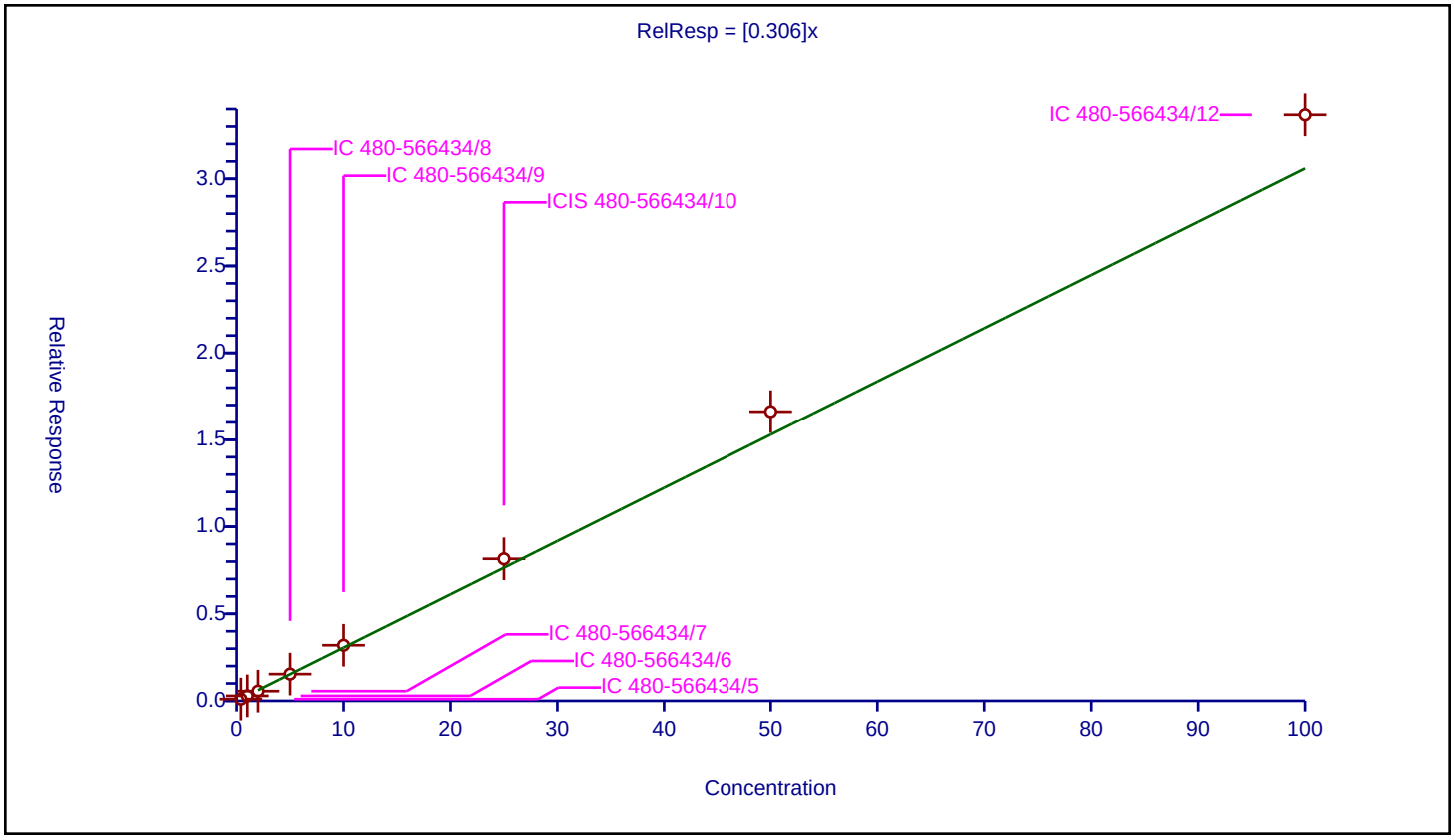
Curve Coefficients

Intercept:	0
Slope:	0.306

Error Coefficients

Standard Error:	322000
Relative Standard Error:	9.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.102385	25.0	576990.0	0.255962	Y
2	IC 480-566434/6	1.0	0.288957	25.0	544458.0	0.288957	Y
3	IC 480-566434/7	2.0	0.559606	25.0	547126.0	0.279803	Y
4	IC 480-566434/8	5.0	1.539661	25.0	534306.0	0.307932	Y
5	IC 480-566434/9	10.0	3.196114	25.0	547540.0	0.319611	Y
6	ICIS 480-566434/10	25.0	8.15814	25.0	524041.0	0.326326	Y
7	IC 480-566434/11	50.0	16.621869	25.0	553975.0	0.332437	Y
8	IC 480-566434/12	100.0	33.669326	25.0	552220.0	0.336693	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

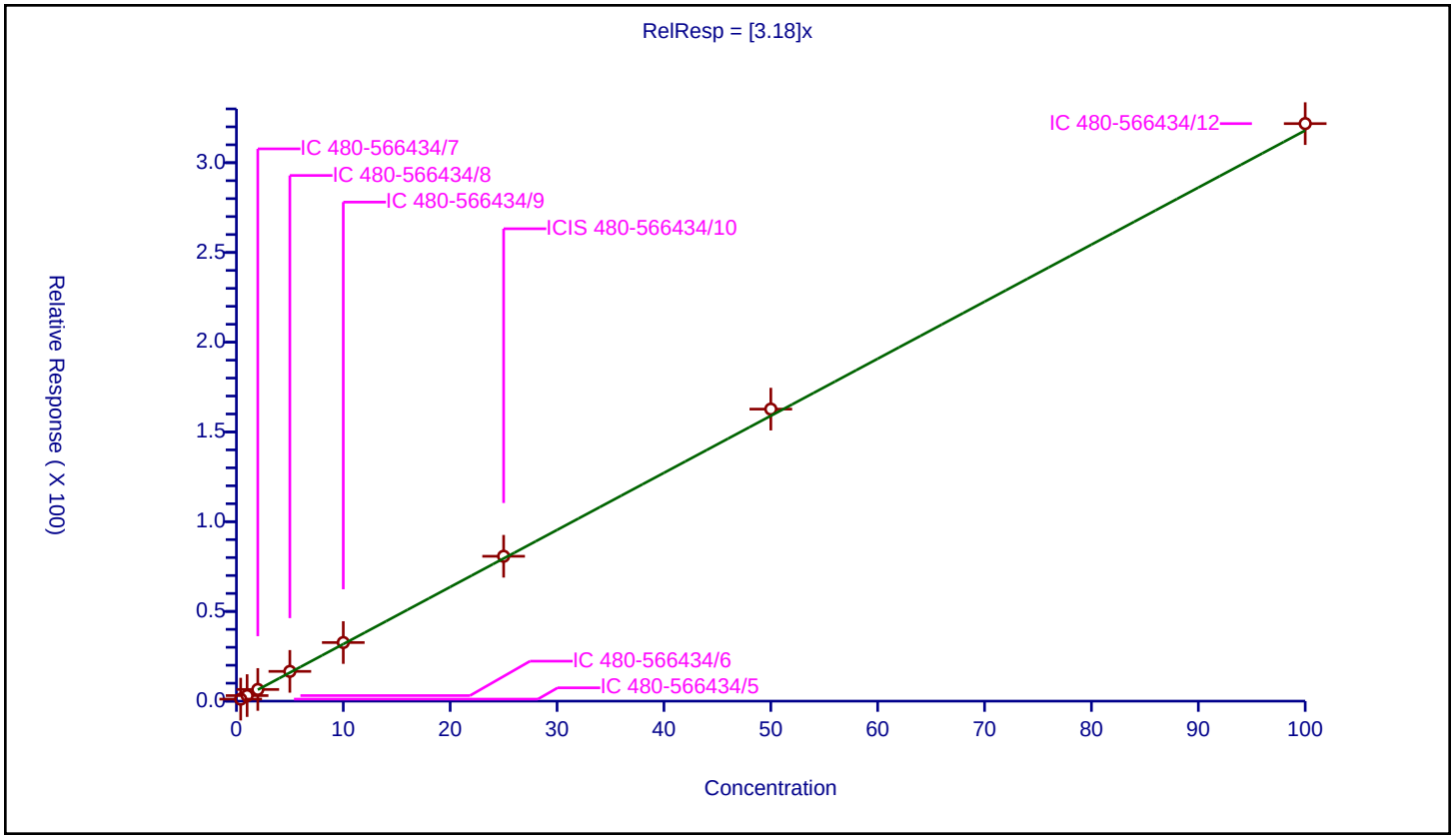
Curve Coefficients

Intercept:	0
Slope:	3.18

Error Coefficients

Standard Error:	1760000
Relative Standard Error:	5.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	1.123158	25.0	312534.0	2.807895	Y
2	IC 480-566434/6	1.0	3.094278	25.0	309119.0	3.094278	Y
3	IC 480-566434/7	2.0	6.505095	25.0	302951.0	3.252547	Y
4	IC 480-566434/8	5.0	16.579756	25.0	300980.0	3.315951	Y
5	IC 480-566434/9	10.0	32.657696	25.0	311311.0	3.26577	Y
6	ICIS 480-566434/10	25.0	80.731799	25.0	307844.0	3.229272	Y
7	IC 480-566434/11	50.0	162.725031	25.0	323011.0	3.254501	Y
8	IC 480-566434/12	100.0	321.796848	25.0	311131.0	3.217968	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

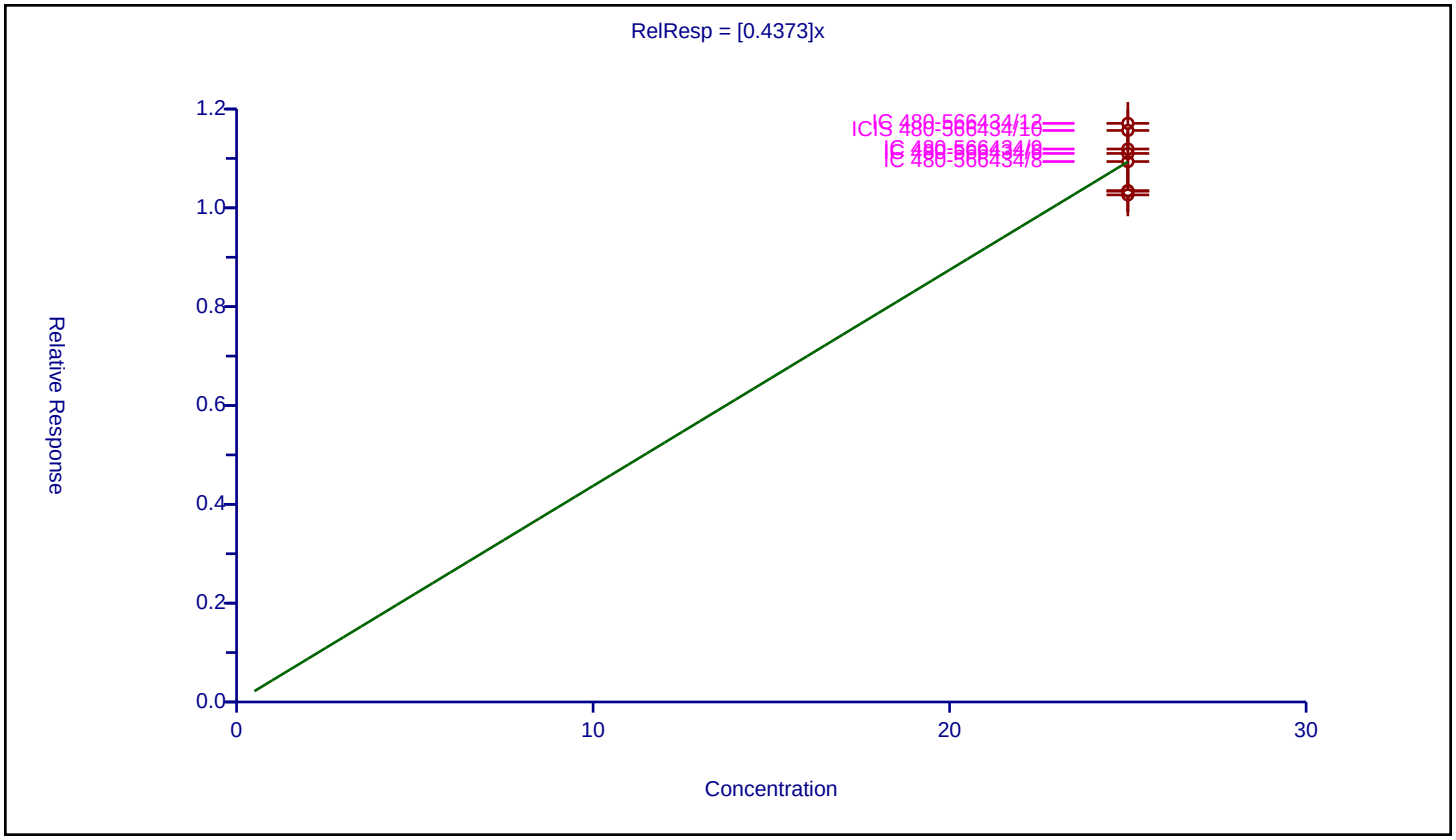
Curve Coefficients

Intercept:	0
Slope:	0.4373

Error Coefficients

Standard Error:	256000
Relative Standard Error:	5.2
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	25.0	10.262006	25.0	576990.0	0.41048	Y
2	IC 480-566434/6	25.0	11.100719	25.0	544458.0	0.444029	Y
3	IC 480-566434/7	25.0	10.348576	25.0	547126.0	0.413943	Y
4	IC 480-566434/8	25.0	10.936898	25.0	534306.0	0.437476	Y
5	IC 480-566434/9	25.0	11.190598	25.0	547540.0	0.447624	Y
6	ICIS 480-566434/10	25.0	11.566032	25.0	524041.0	0.462641	Y
7	IC 480-566434/11	25.0	10.335981	25.0	553975.0	0.413439	Y
8	IC 480-566434/12	25.0	11.70969	25.0	552220.0	0.468388	Y



Calibration / 1,1,2,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

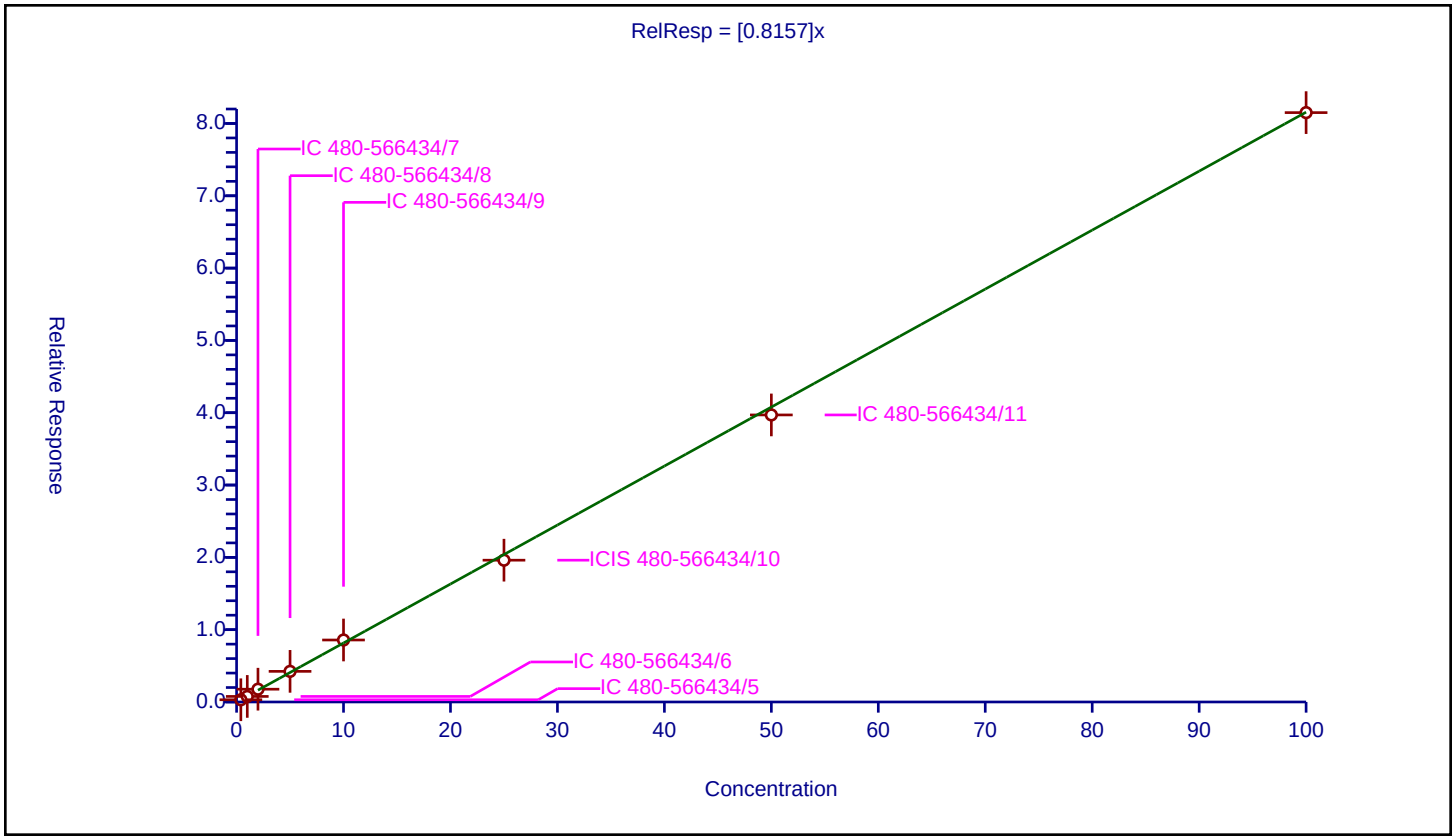
Curve Coefficients

Intercept:	0
Slope:	0.8157

Error Coefficients

Standard Error:	442000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.309166	25.0	312534.0	0.772916	Y
2	IC 480-566434/6	1.0	0.770334	25.0	309119.0	0.770334	Y
3	IC 480-566434/7	2.0	1.768933	25.0	302951.0	0.884466	Y
4	IC 480-566434/8	5.0	4.235414	25.0	300980.0	0.847083	Y
5	IC 480-566434/9	10.0	8.571413	25.0	311311.0	0.857141	Y
6	ICIS 480-566434/10	25.0	19.610582	25.0	307844.0	0.784423	Y
7	IC 480-566434/11	50.0	39.695088	25.0	323011.0	0.793902	Y
8	IC 480-566434/12	100.0	81.50104	25.0	311131.0	0.81501	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

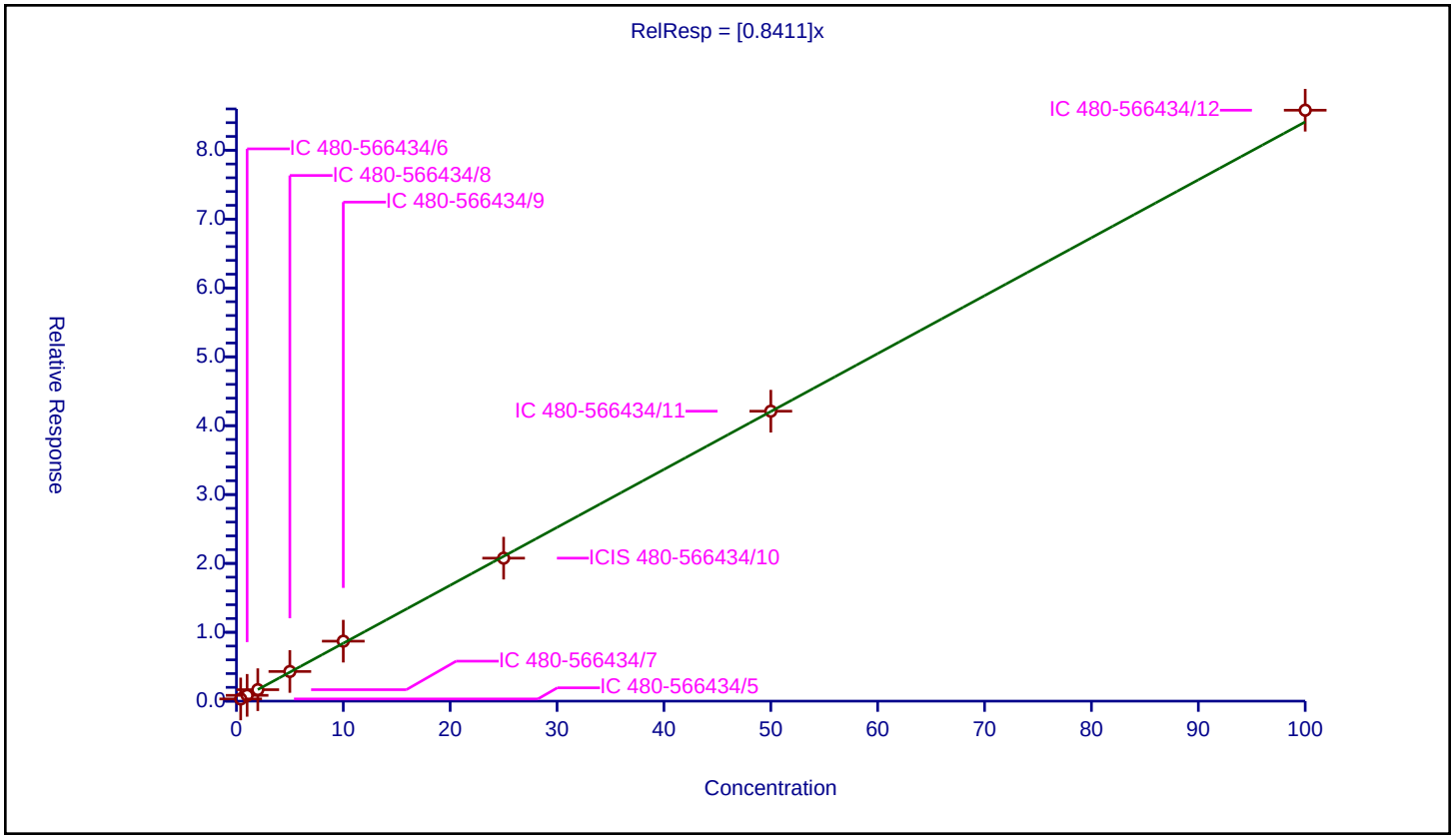
Curve Coefficients

Intercept:	0
Slope:	0.8411

Error Coefficients

Standard Error:	465000
Relative Standard Error:	2.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.317405	25.0	312534.0	0.793514	Y
2	IC 480-566434/6	1.0	0.841343	25.0	309119.0	0.841343	Y
3	IC 480-566434/7	2.0	1.663553	25.0	302951.0	0.831776	Y
4	IC 480-566434/8	5.0	4.304605	25.0	300980.0	0.860921	Y
5	IC 480-566434/9	10.0	8.706808	25.0	311311.0	0.870681	Y
6	ICIS 480-566434/10	25.0	20.76287	25.0	307844.0	0.830515	Y
7	IC 480-566434/11	50.0	42.103597	25.0	323011.0	0.842072	Y
8	IC 480-566434/12	100.0	85.809354	25.0	311131.0	0.858094	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

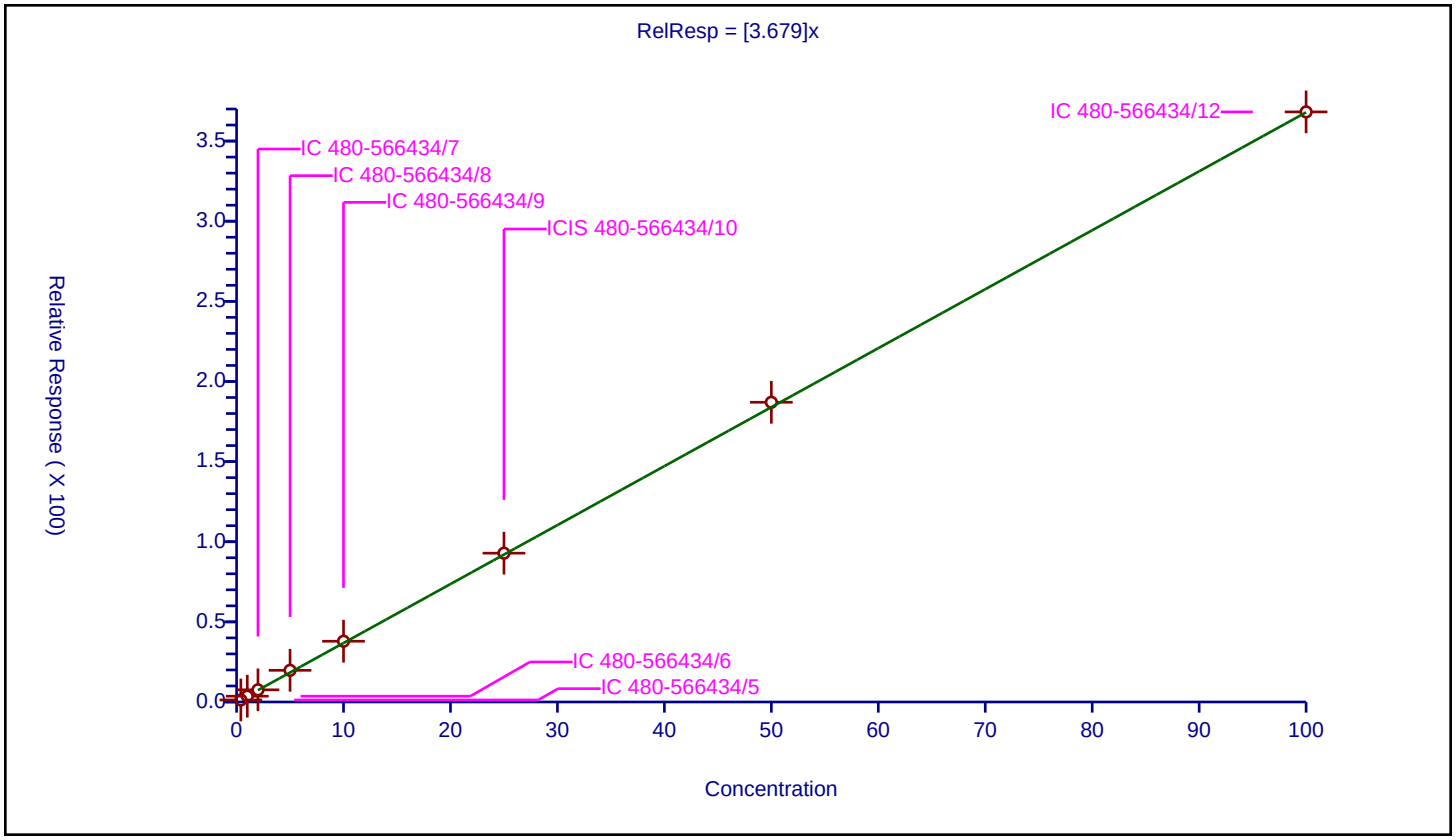
Curve Coefficients

Intercept:	0
Slope:	3.679

Error Coefficients

Standard Error:	2020000
Relative Standard Error:	6.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	1.254024	25.0	312534.0	3.135059	Y
2	IC 480-566434/6	1.0	3.61859	25.0	309119.0	3.61859	Y
3	IC 480-566434/7	2.0	7.60255	25.0	302951.0	3.801275	Y
4	IC 480-566434/8	5.0	19.757957	25.0	300980.0	3.951591	Y
5	IC 480-566434/9	10.0	37.915862	25.0	311311.0	3.791586	Y
6	ICIS 480-566434/10	25.0	92.850924	25.0	307844.0	3.714037	Y
7	IC 480-566434/11	50.0	187.01182	25.0	323011.0	3.740236	Y
8	IC 480-566434/12	100.0	368.202461	25.0	311131.0	3.682025	Y



Calibration / trans-1,4-Dichloro-2-butene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

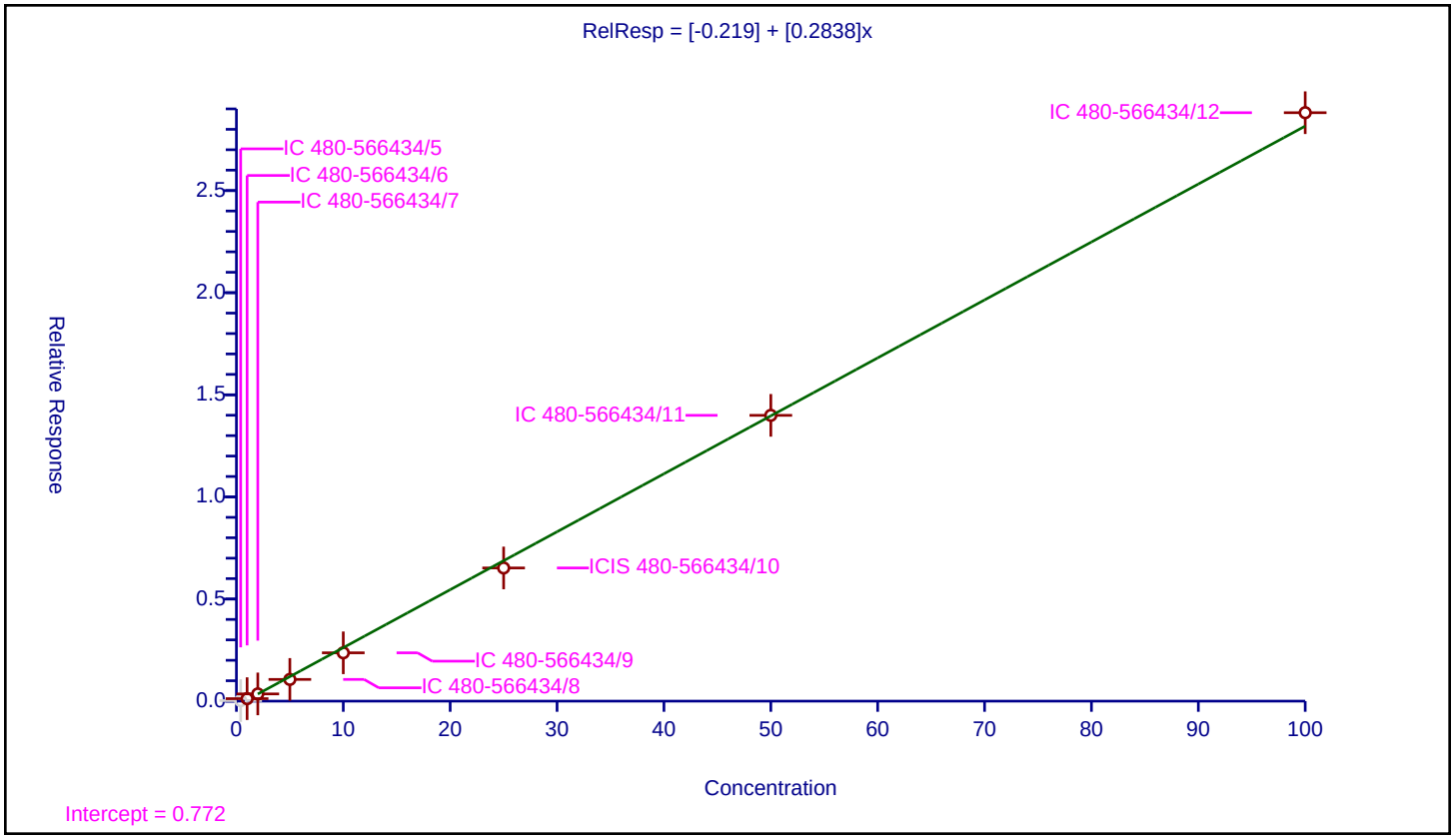
Curve Coefficients

Intercept:	-0.219
Slope:	0.2838

Error Coefficients

Standard Error:	184000
Relative Standard Error:	11.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.027357	25.0	312534.0	0.068393	N
2	IC 480-566434/6	1.0	0.121555	25.0	309119.0	0.121555	Y
3	IC 480-566434/7	2.0	0.354265	25.0	302951.0	0.177133	Y
4	IC 480-566434/8	5.0	1.062944	25.0	300980.0	0.212589	Y
5	IC 480-566434/9	10.0	2.366123	25.0	311311.0	0.236612	Y
6	ICIS 480-566434/10	25.0	6.522053	25.0	307844.0	0.260882	Y
7	IC 480-566434/11	50.0	13.993951	25.0	323011.0	0.279879	Y
8	IC 480-566434/12	100.0	28.813104	25.0	311131.0	0.288131	Y



Calibration / 1,2,3-Trichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

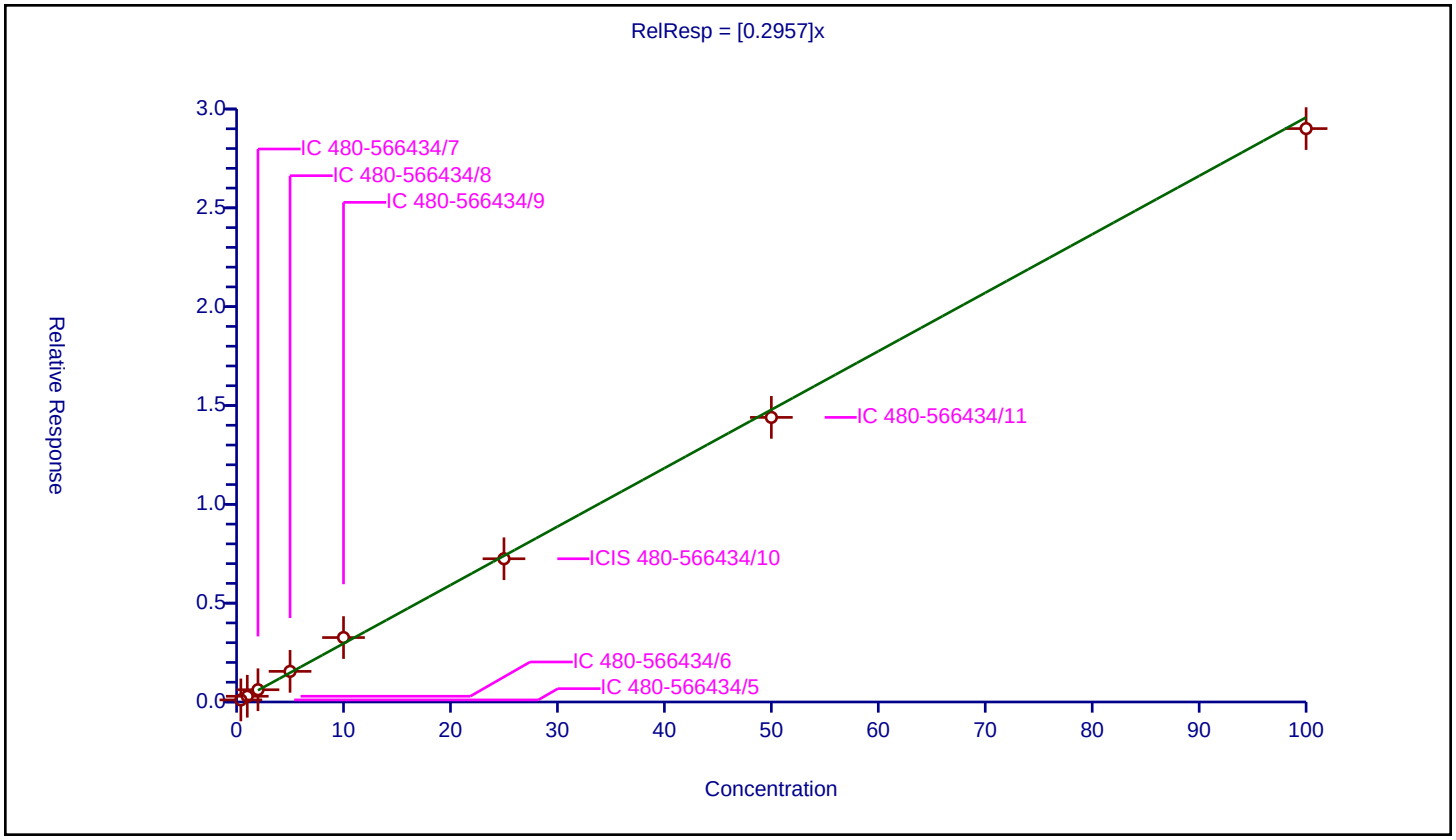
Curve Coefficients

Intercept:	0
Slope:	0.2957

Error Coefficients

Standard Error:	158000
Relative Standard Error:	6.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.104949	25.0	312534.0	0.262371	Y
2	IC 480-566434/6	1.0	0.29018	25.0	309119.0	0.29018	Y
3	IC 480-566434/7	2.0	0.619325	25.0	302951.0	0.309662	Y
4	IC 480-566434/8	5.0	1.54894	25.0	300980.0	0.309788	Y
5	IC 480-566434/9	10.0	3.260084	25.0	311311.0	0.326008	Y
6	ICIS 480-566434/10	25.0	7.246934	25.0	307844.0	0.289877	Y
7	IC 480-566434/11	50.0	14.397962	25.0	323011.0	0.287959	Y
8	IC 480-566434/12	100.0	29.010208	25.0	311131.0	0.290102	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

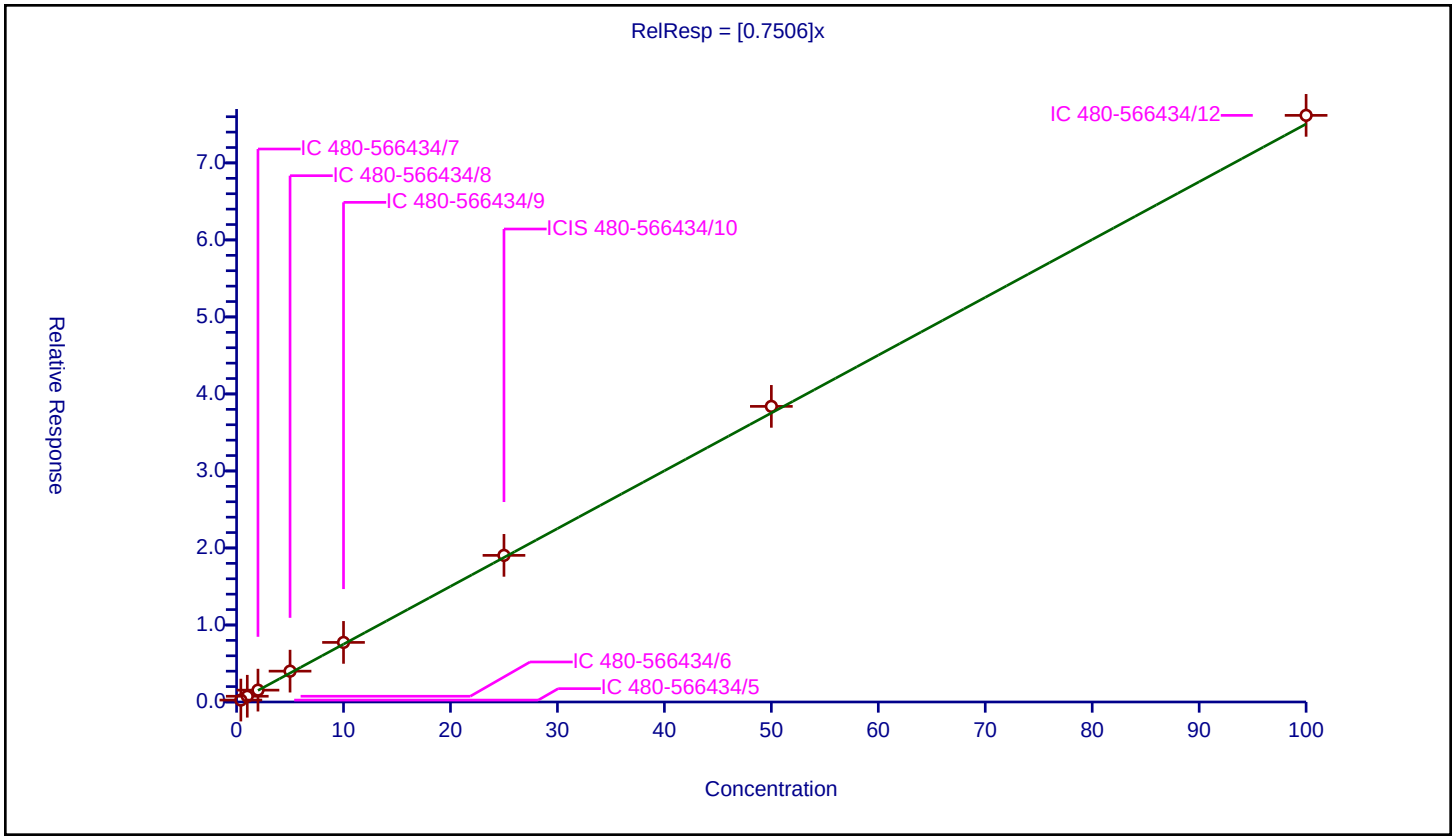
Curve Coefficients

Intercept:	0
Slope:	0.7506

Error Coefficients

Standard Error:	416000
Relative Standard Error:	7.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.248773	25.0	312534.0	0.621932	Y
2	IC 480-566434/6	1.0	0.747528	25.0	309119.0	0.747528	Y
3	IC 480-566434/7	2.0	1.53911	25.0	302951.0	0.769555	Y
4	IC 480-566434/8	5.0	4.004253	25.0	300980.0	0.800851	Y
5	IC 480-566434/9	10.0	7.736395	25.0	311311.0	0.77364	Y
6	ICIS 480-566434/10	25.0	19.038783	25.0	307844.0	0.761551	Y
7	IC 480-566434/11	50.0	38.384916	25.0	323011.0	0.767698	Y
8	IC 480-566434/12	100.0	76.177478	25.0	311131.0	0.761775	Y



Calibration / 1,3,5-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

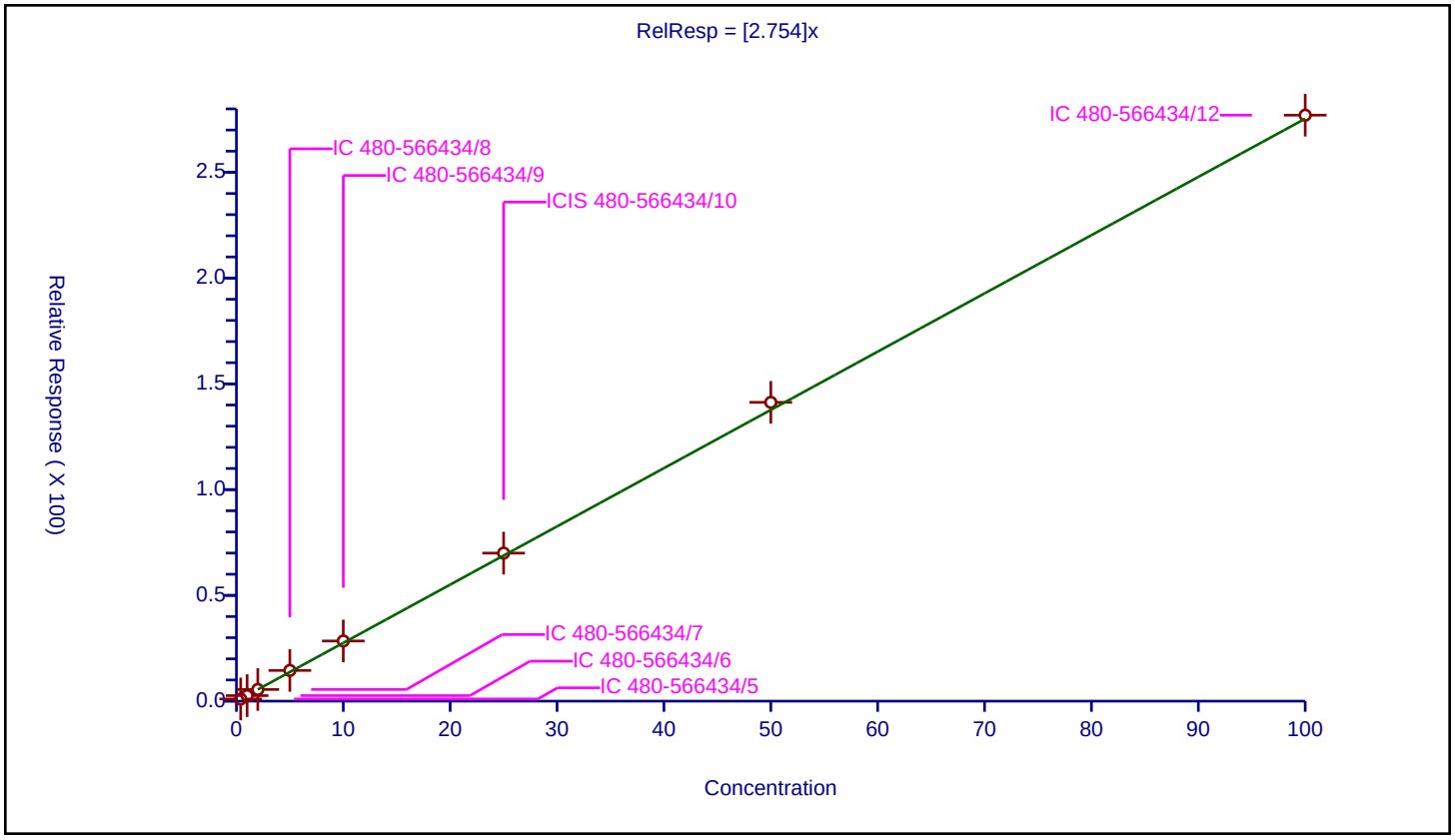
Curve Coefficients

Intercept:	0
Slope:	2.754

Error Coefficients

Standard Error:	1520000
Relative Standard Error:	4.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	1.00781	25.0	312534.0	2.519526	Y
2	IC 480-566434/6	1.0	2.618247	25.0	309119.0	2.618247	Y
3	IC 480-566434/7	2.0	5.50353	25.0	302951.0	2.751765	Y
4	IC 480-566434/8	5.0	14.507359	25.0	300980.0	2.901472	Y
5	IC 480-566434/9	10.0	28.438924	25.0	311311.0	2.843892	Y
6	ICIS 480-566434/10	25.0	69.991132	25.0	307844.0	2.799645	Y
7	IC 480-566434/11	50.0	141.259353	25.0	323011.0	2.825187	Y
8	IC 480-566434/12	100.0	277.02479	25.0	311131.0	2.770248	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

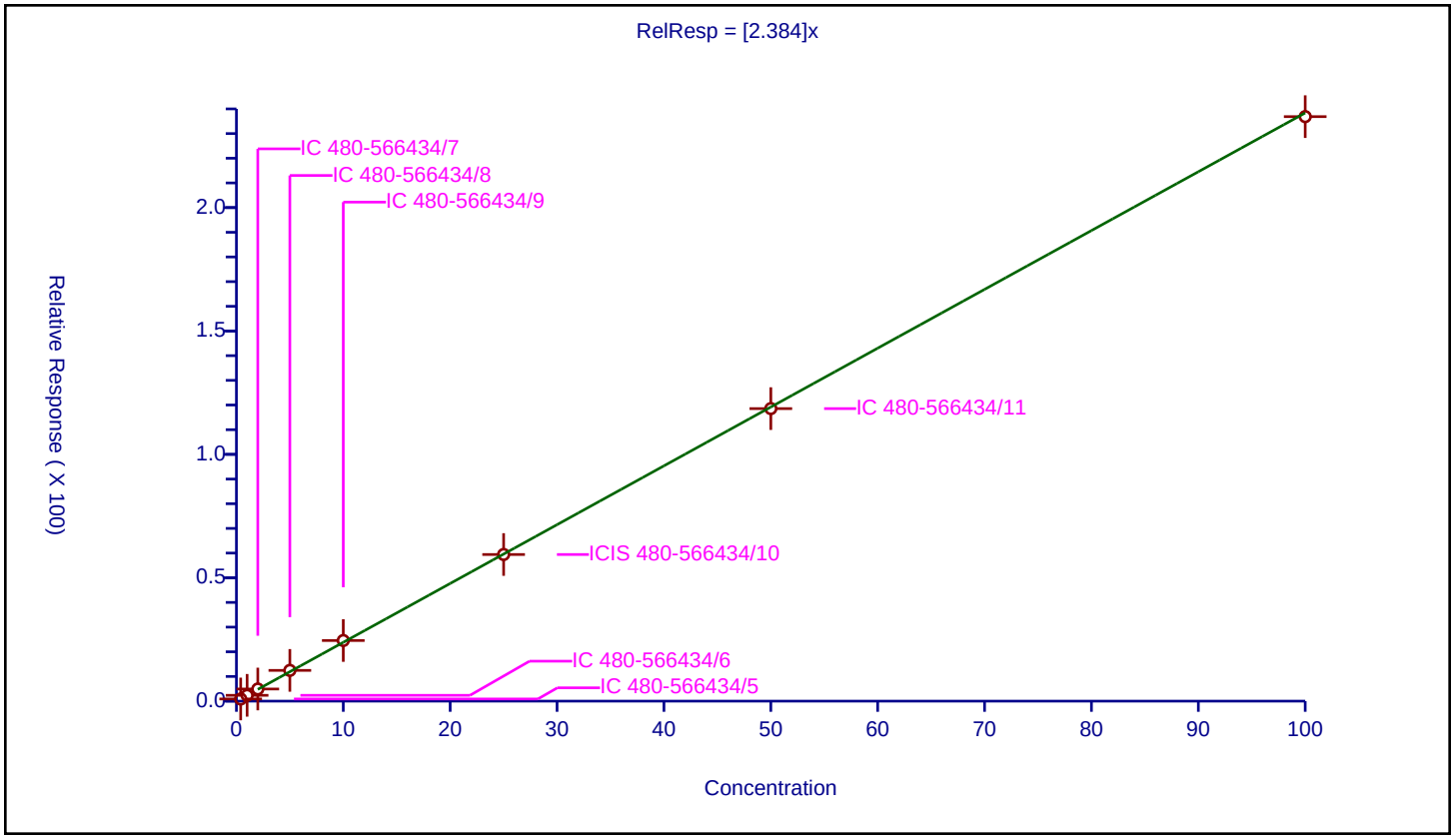
Curve Coefficients

Intercept:	0
Slope:	2.384

Error Coefficients

Standard Error:	1290000
Relative Standard Error:	3.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.875665	25.0	312534.0	2.189162	Y
2	IC 480-566434/6	1.0	2.356698	25.0	309119.0	2.356698	Y
3	IC 480-566434/7	2.0	4.915894	25.0	302951.0	2.457947	Y
4	IC 480-566434/8	5.0	12.461958	25.0	300980.0	2.492392	Y
5	IC 480-566434/9	10.0	24.568036	25.0	311311.0	2.456804	Y
6	ICIS 480-566434/10	25.0	59.426203	25.0	307844.0	2.377048	Y
7	IC 480-566434/11	50.0	118.547898	25.0	323011.0	2.370958	Y
8	IC 480-566434/12	100.0	236.859876	25.0	311131.0	2.368599	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

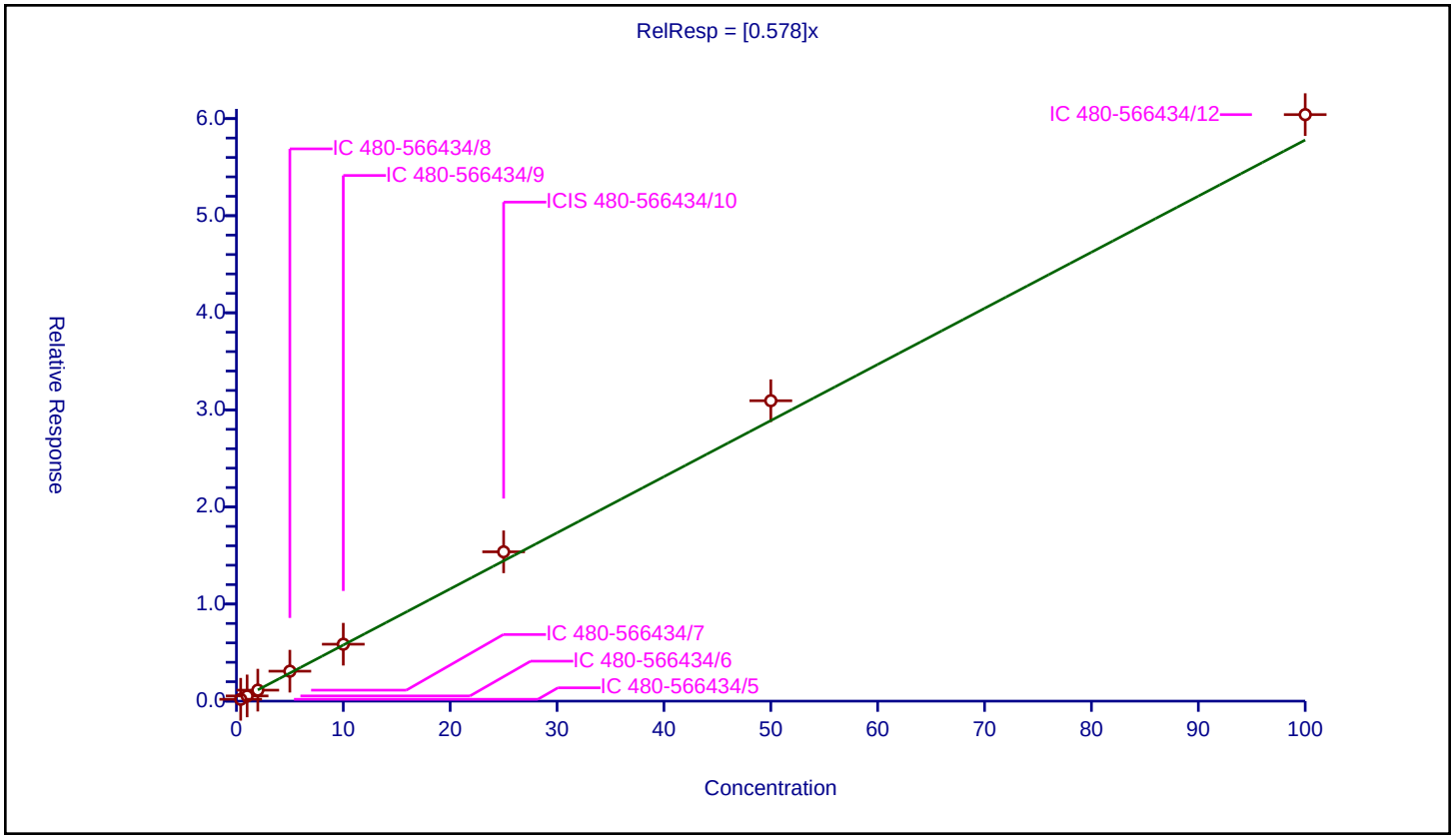
Curve Coefficients

Intercept:	0
Slope:	0.578

Error Coefficients

Standard Error:	331000
Relative Standard Error:	8.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.191659	25.0	312534.0	0.479148	Y
2	IC 480-566434/6	1.0	0.536363	25.0	309119.0	0.536363	Y
3	IC 480-566434/7	2.0	1.132856	25.0	302951.0	0.566428	Y
4	IC 480-566434/8	5.0	3.085919	25.0	300980.0	0.617184	Y
5	IC 480-566434/9	10.0	5.864634	25.0	311311.0	0.586463	Y
6	ICIS 480-566434/10	25.0	15.37865	25.0	307844.0	0.615146	Y
7	IC 480-566434/11	50.0	30.943606	25.0	323011.0	0.618872	Y
8	IC 480-566434/12	100.0	60.409281	25.0	311131.0	0.604093	Y



Calibration / 1,2,4-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

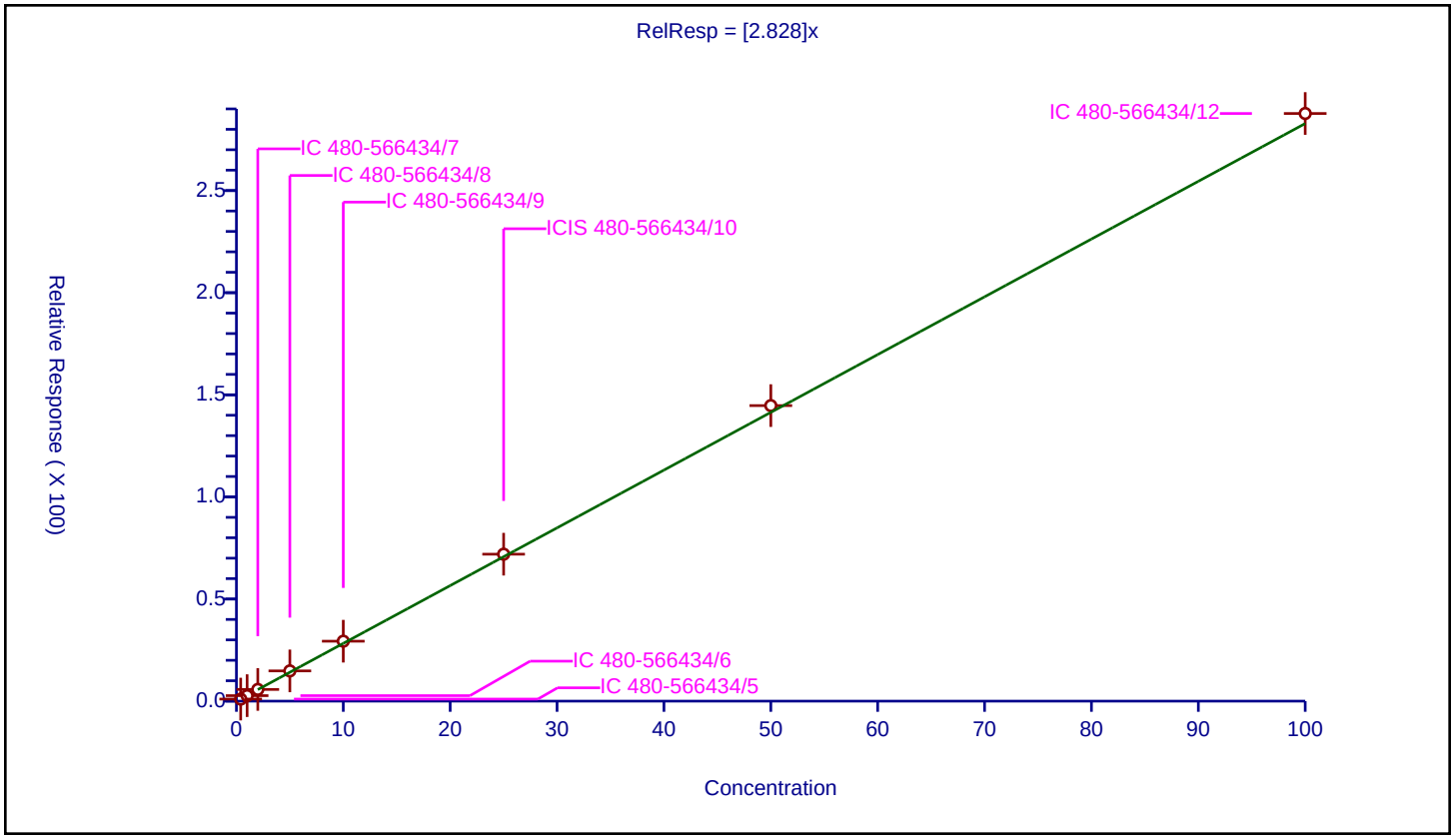
Curve Coefficients

Intercept:	0
Slope:	2.828

Error Coefficients

Standard Error:	1570000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	1.00813	25.0	312534.0	2.520326	Y
2	IC 480-566434/6	1.0	2.690064	25.0	309119.0	2.690064	Y
3	IC 480-566434/7	2.0	5.735168	25.0	302951.0	2.867584	Y
4	IC 480-566434/8	5.0	14.814523	25.0	300980.0	2.962905	Y
5	IC 480-566434/9	10.0	29.353765	25.0	311311.0	2.935377	Y
6	ICIS 480-566434/10	25.0	71.951134	25.0	307844.0	2.878045	Y
7	IC 480-566434/11	50.0	144.709778	25.0	323011.0	2.894196	Y
8	IC 480-566434/12	100.0	287.746399	25.0	311131.0	2.877464	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

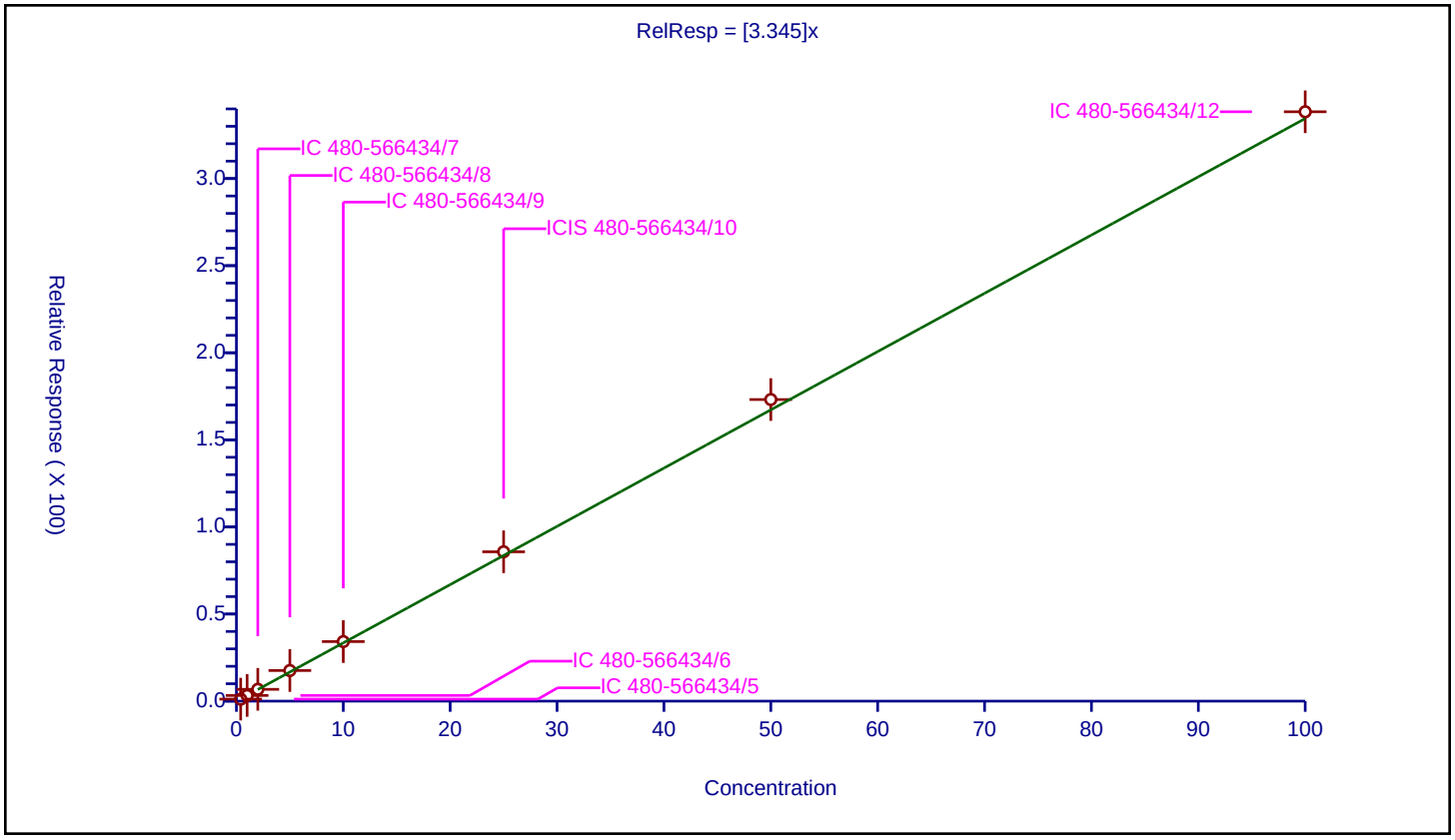
Curve Coefficients

Intercept:	0
Slope:	3.345

Error Coefficients

Standard Error:	1850000
Relative Standard Error:	5.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	1.155474	25.0	312534.0	2.888686	Y
2	IC 480-566434/6	1.0	3.267916	25.0	309119.0	3.267916	Y
3	IC 480-566434/7	2.0	6.7808	25.0	302951.0	3.3904	Y
4	IC 480-566434/8	5.0	17.572679	25.0	300980.0	3.514536	Y
5	IC 480-566434/9	10.0	34.190649	25.0	311311.0	3.419065	Y
6	ICIS 480-566434/10	25.0	85.744647	25.0	307844.0	3.429786	Y
7	IC 480-566434/11	50.0	173.138918	25.0	323011.0	3.462778	Y
8	IC 480-566434/12	100.0	338.348557	25.0	311131.0	3.383486	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

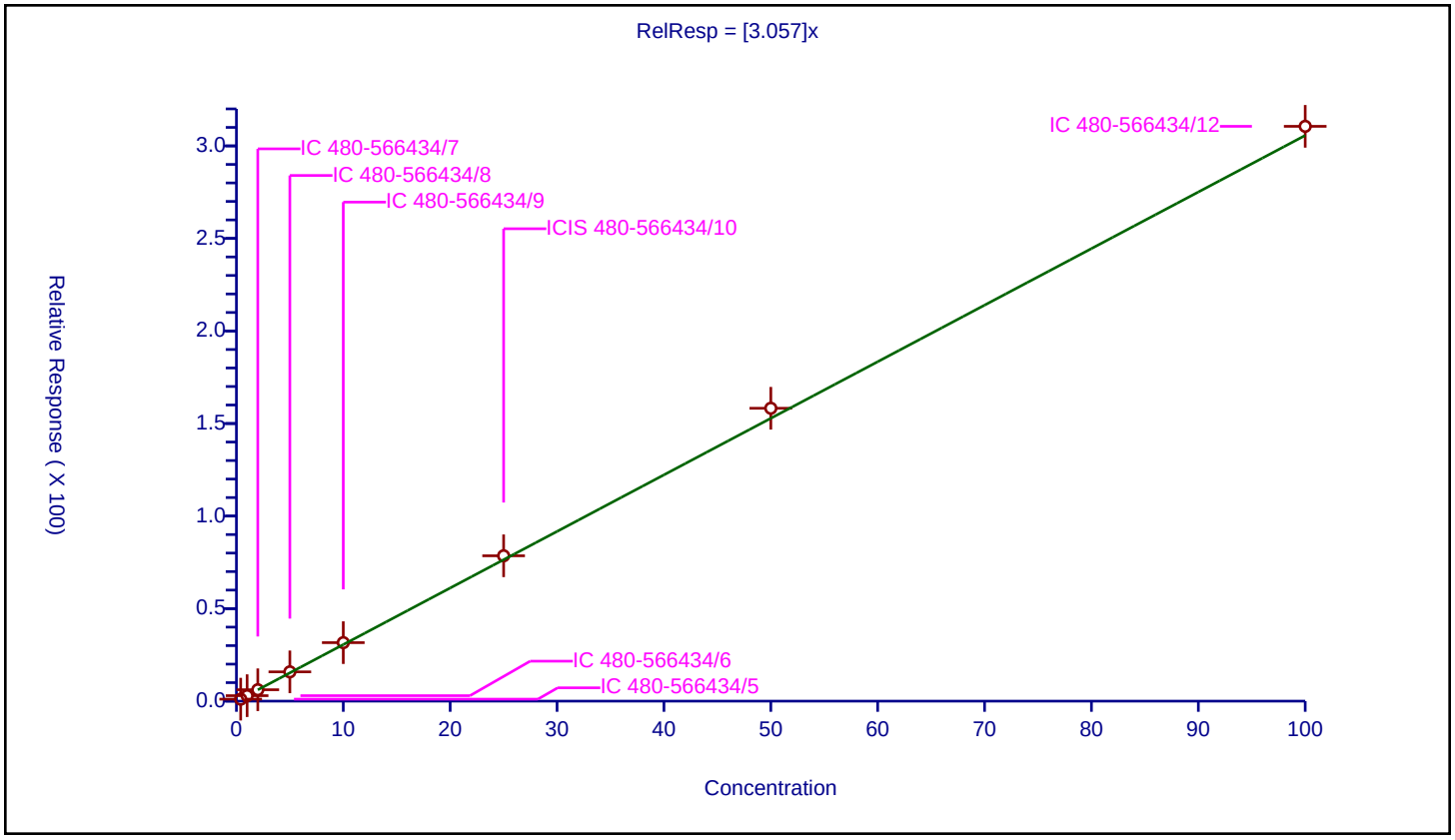
Curve Coefficients

Intercept:	0
Slope:	3.057

Error Coefficients

Standard Error:	1700000
Relative Standard Error:	5.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	1.073243	25.0	312534.0	2.683108	Y
2	IC 480-566434/6	1.0	2.951129	25.0	309119.0	2.951129	Y
3	IC 480-566434/7	2.0	6.159164	25.0	302951.0	3.079582	Y
4	IC 480-566434/8	5.0	15.827879	25.0	300980.0	3.165576	Y
5	IC 480-566434/9	10.0	31.604569	25.0	311311.0	3.160457	Y
6	ICIS 480-566434/10	25.0	78.531984	25.0	307844.0	3.141279	Y
7	IC 480-566434/11	50.0	158.254053	25.0	323011.0	3.165081	Y
8	IC 480-566434/12	100.0	310.579225	25.0	311131.0	3.105792	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

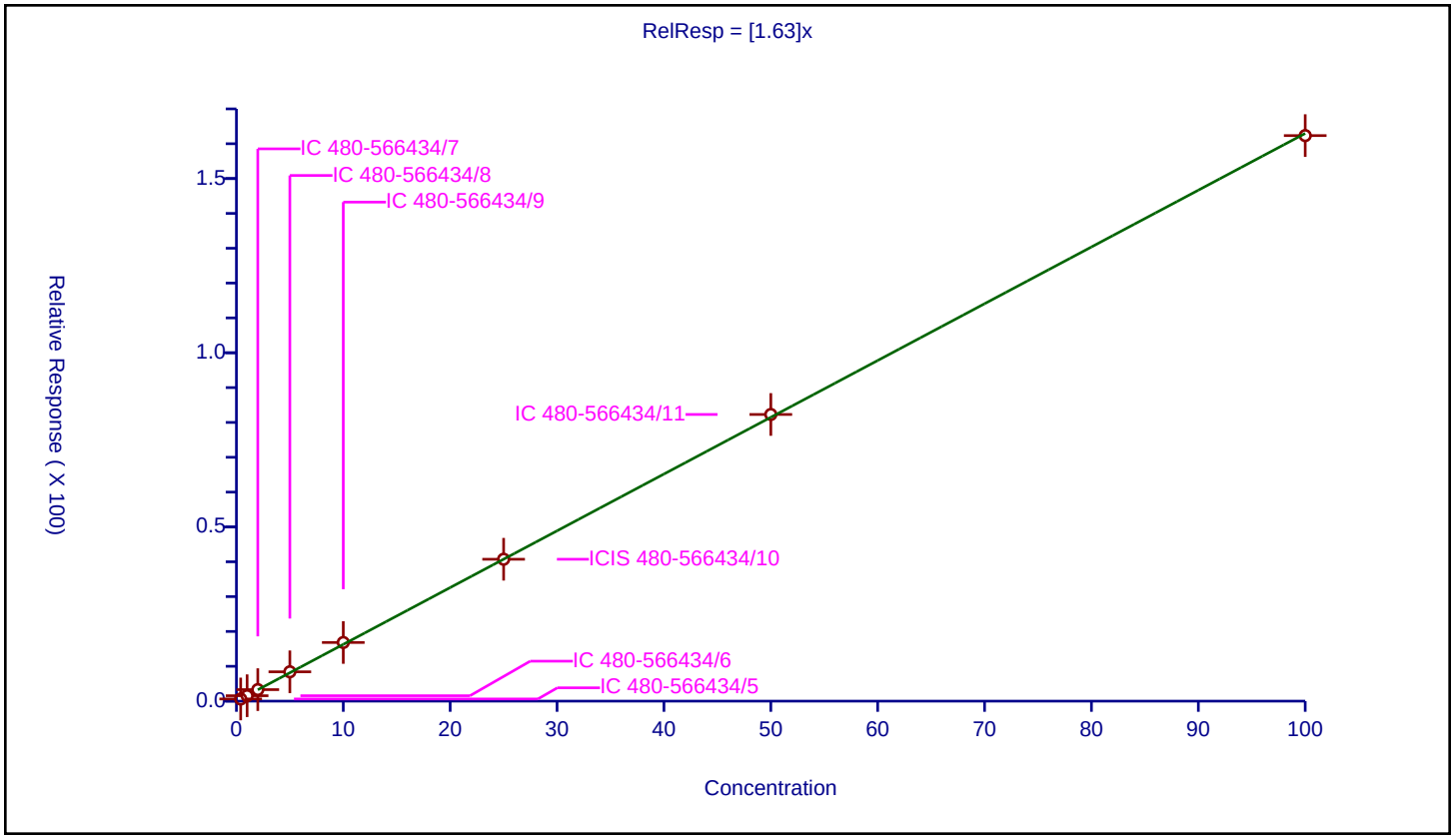
Curve Coefficients

Intercept:	0
Slope:	1.63

Error Coefficients

Standard Error:	888000
Relative Standard Error:	3.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.623692	25.0	312534.0	1.55923	Y
2	IC 480-566434/6	1.0	1.559108	25.0	309119.0	1.559108	Y
3	IC 480-566434/7	2.0	3.304577	25.0	302951.0	1.652289	Y
4	IC 480-566434/8	5.0	8.421407	25.0	300980.0	1.684281	Y
5	IC 480-566434/9	10.0	16.837343	25.0	311311.0	1.683734	Y
6	ICIS 480-566434/10	25.0	40.731507	25.0	307844.0	1.62926	Y
7	IC 480-566434/11	50.0	82.286671	25.0	323011.0	1.645733	Y
8	IC 480-566434/12	100.0	162.330417	25.0	311131.0	1.623304	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

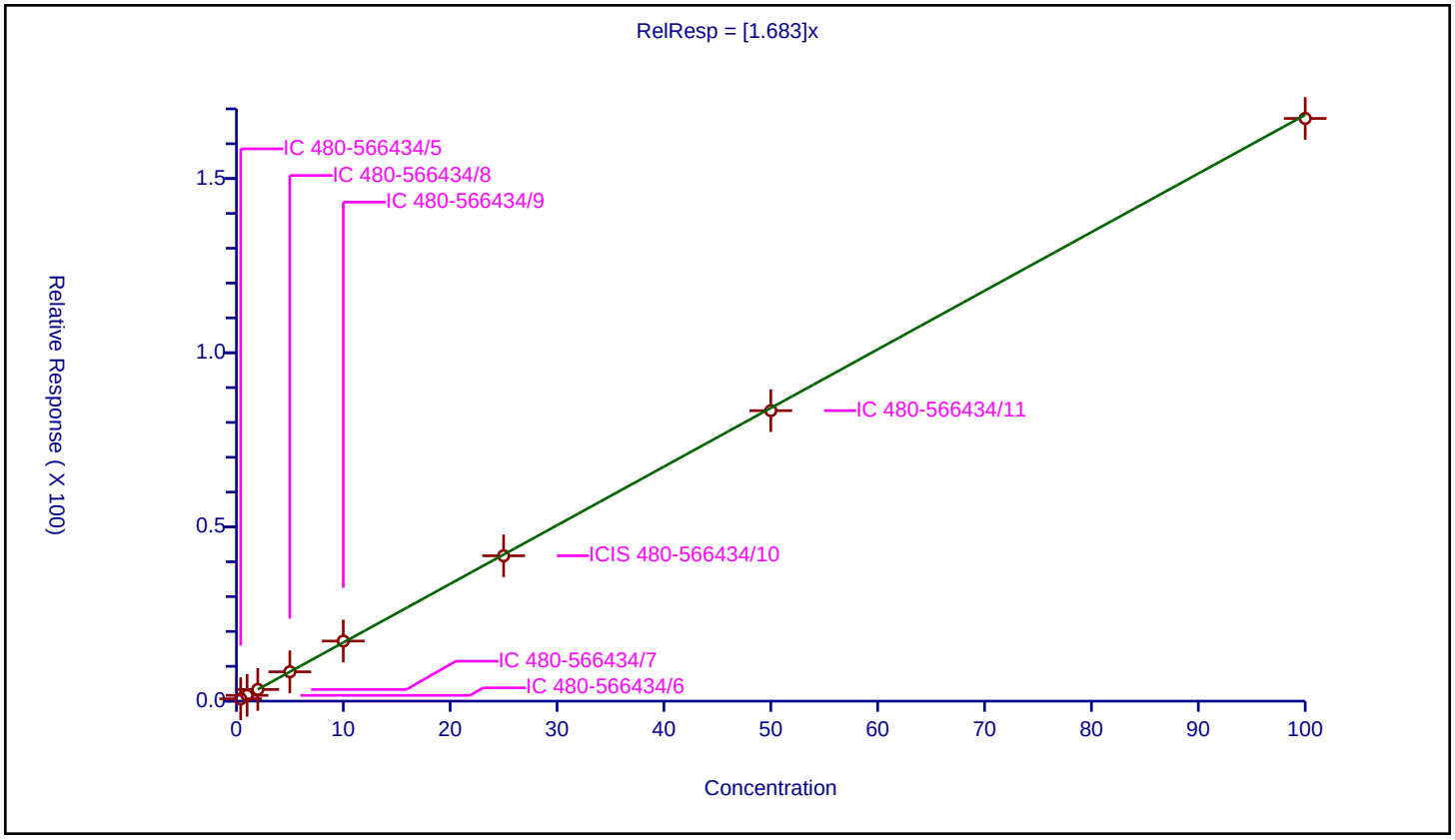
Curve Coefficients

Intercept:	0
Slope:	1.683

Error Coefficients

Standard Error:	911000
Relative Standard Error:	1.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.685445	25.0	312534.0	1.713614	Y
2	IC 480-566434/6	1.0	1.657857	25.0	309119.0	1.657857	Y
3	IC 480-566434/7	2.0	3.344188	25.0	302951.0	1.672094	Y
4	IC 480-566434/8	5.0	8.42149	25.0	300980.0	1.684298	Y
5	IC 480-566434/9	10.0	17.244733	25.0	311311.0	1.724473	Y
6	ICIS 480-566434/10	25.0	41.72438	25.0	307844.0	1.668975	Y
7	IC 480-566434/11	50.0	83.38764	25.0	323011.0	1.667753	Y
8	IC 480-566434/12	100.0	167.25246	25.0	311131.0	1.672525	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

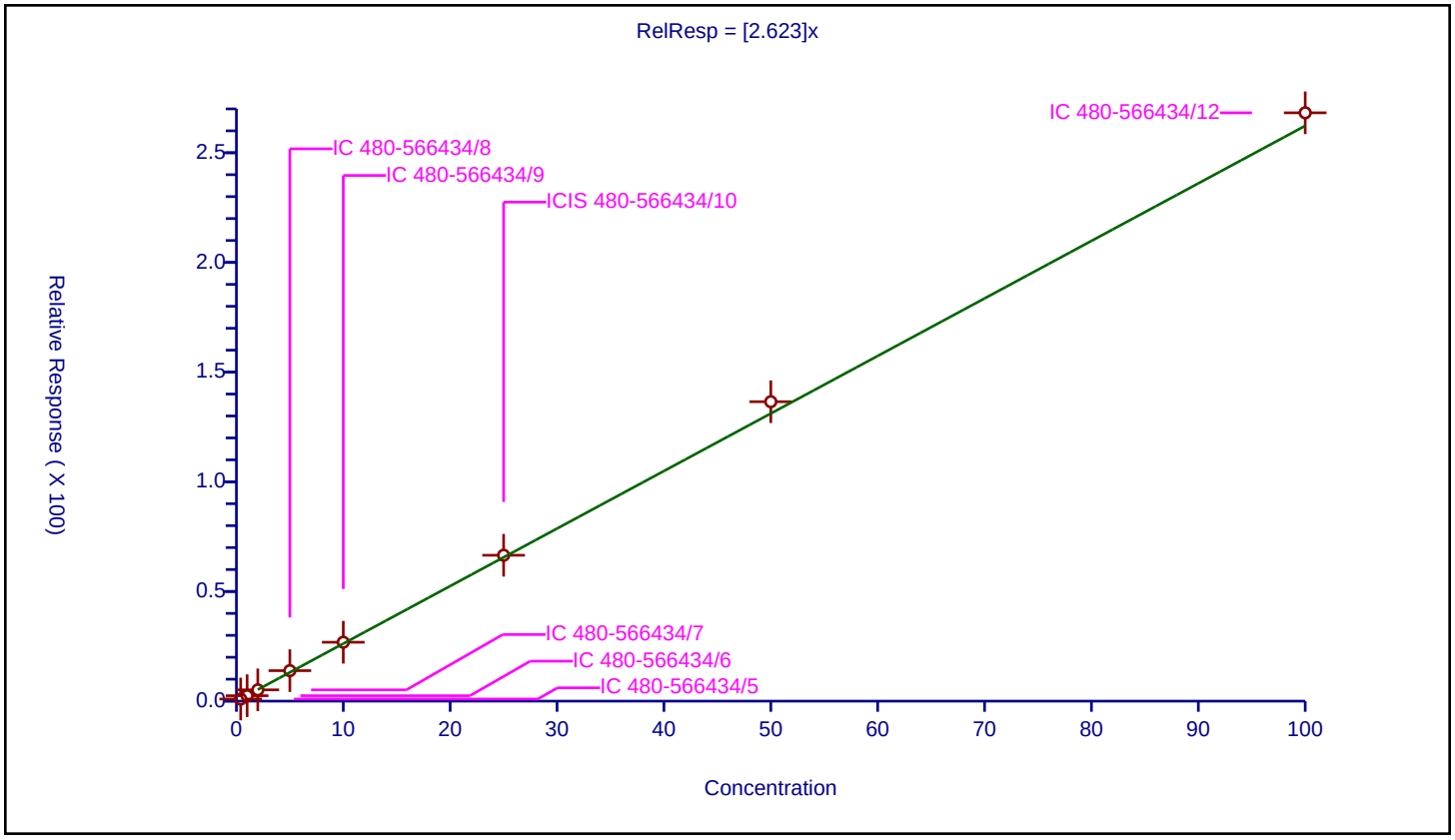
Curve Coefficients

Intercept:	0
Slope:	2.623

Error Coefficients

Standard Error:	1470000
Relative Standard Error:	5.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.959736	25.0	312534.0	2.399339	Y
2	IC 480-566434/6	1.0	2.471621	25.0	309119.0	2.471621	Y
3	IC 480-566434/7	2.0	5.147532	25.0	302951.0	2.573766	Y
4	IC 480-566434/8	5.0	13.894279	25.0	300980.0	2.778856	Y
5	IC 480-566434/9	10.0	26.857869	25.0	311311.0	2.685787	Y
6	ICIS 480-566434/10	25.0	66.504057	25.0	307844.0	2.660162	Y
7	IC 480-566434/11	50.0	136.512921	25.0	323011.0	2.730258	Y
8	IC 480-566434/12	100.0	268.22038	25.0	311131.0	2.682204	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

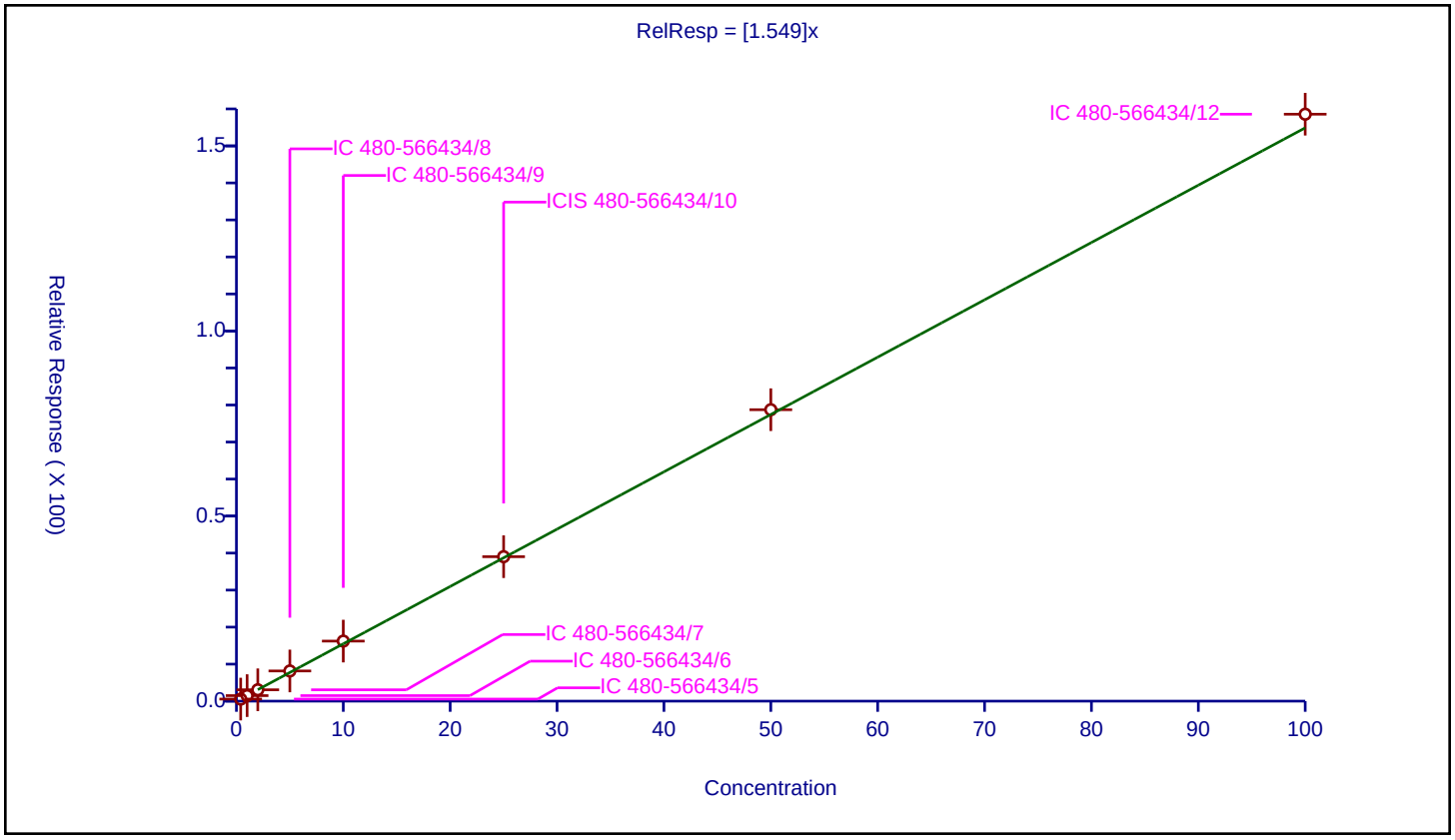
Curve Coefficients

Intercept:	0
Slope:	1.549

Error Coefficients

Standard Error:	863000
Relative Standard Error:	5.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.556339	25.0	312534.0	1.390849	Y
2	IC 480-566434/6	1.0	1.489798	25.0	309119.0	1.489798	Y
3	IC 480-566434/7	2.0	3.070876	25.0	302951.0	1.535438	Y
4	IC 480-566434/8	5.0	8.154196	25.0	300980.0	1.630839	Y
5	IC 480-566434/9	10.0	16.220998	25.0	311311.0	1.6221	Y
6	ICIS 480-566434/10	25.0	39.023905	25.0	307844.0	1.560956	Y
7	IC 480-566434/11	50.0	78.732845	25.0	323011.0	1.574657	Y
8	IC 480-566434/12	100.0	158.565604	25.0	311131.0	1.585656	Y



Calibration / 1,2-Dibromo-3-Chloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

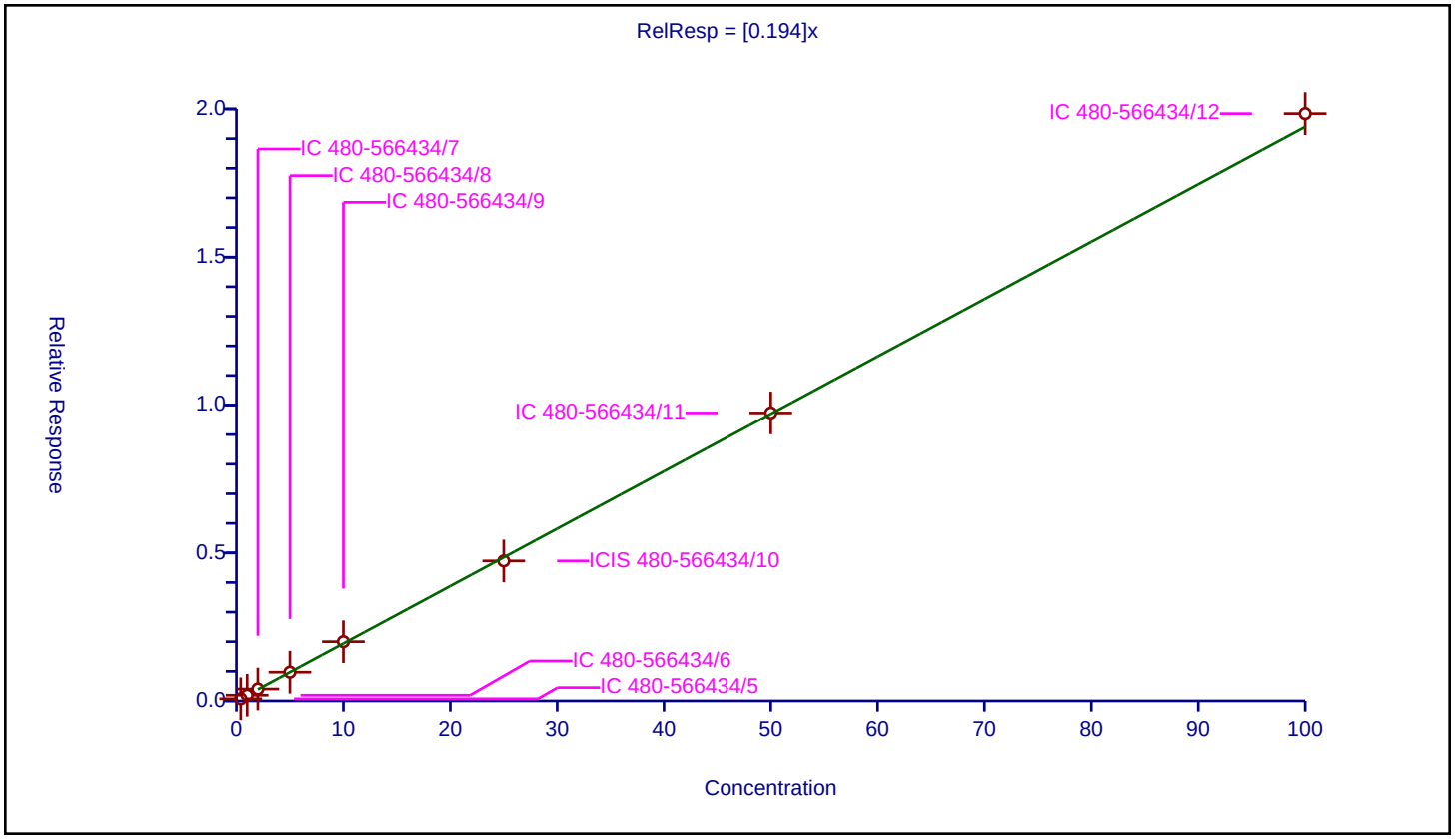
Curve Coefficients

Intercept:	0
Slope:	0.194

Error Coefficients

Standard Error:	108000
Relative Standard Error:	3.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.072472	25.0	312534.0	0.18118	Y
2	IC 480-566434/6	1.0	0.193049	25.0	309119.0	0.193049	Y
3	IC 480-566434/7	2.0	0.402458	25.0	302951.0	0.201229	Y
4	IC 480-566434/8	5.0	0.970912	25.0	300980.0	0.194182	Y
5	IC 480-566434/9	10.0	2.001455	25.0	311311.0	0.200146	Y
6	ICIS 480-566434/10	25.0	4.729343	25.0	307844.0	0.189174	Y
7	IC 480-566434/11	50.0	9.732718	25.0	323011.0	0.194654	Y
8	IC 480-566434/12	100.0	19.843812	25.0	311131.0	0.198438	Y



Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

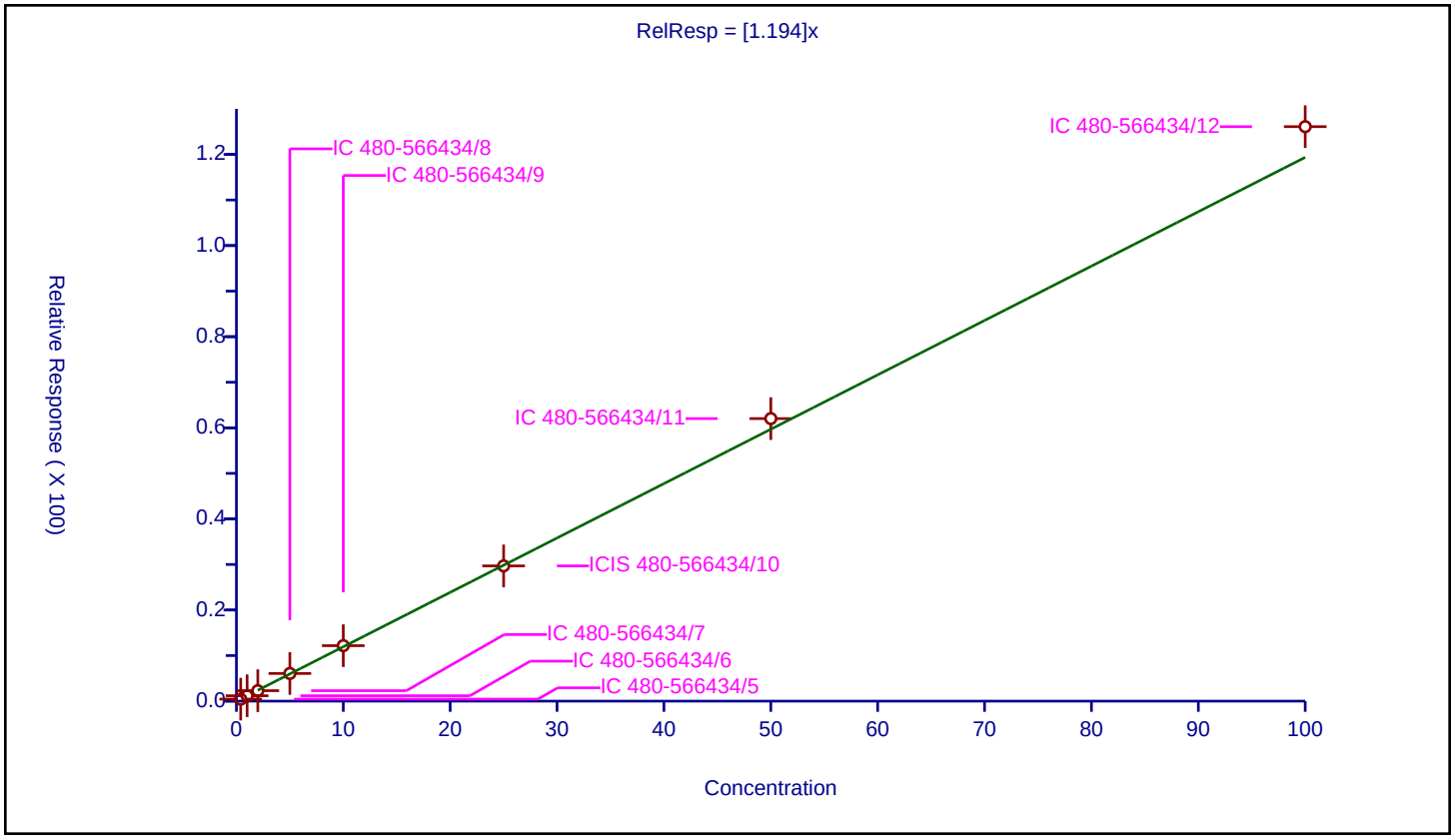
Curve Coefficients

Intercept:	0
Slope:	1.194

Error Coefficients

Standard Error:	683000
Relative Standard Error:	4.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.438432	25.0	312534.0	1.096081	Y
2	IC 480-566434/6	1.0	1.183687	25.0	309119.0	1.183687	Y
3	IC 480-566434/7	2.0	2.297071	25.0	302951.0	1.148536	Y
4	IC 480-566434/8	5.0	6.073161	25.0	300980.0	1.214632	Y
5	IC 480-566434/9	10.0	12.175847	25.0	311311.0	1.217585	Y
6	ICIS 480-566434/10	25.0	29.683947	25.0	307844.0	1.187358	Y
7	IC 480-566434/11	50.0	62.01716	25.0	323011.0	1.240343	Y
8	IC 480-566434/12	100.0	126.10243	25.0	311131.0	1.261024	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

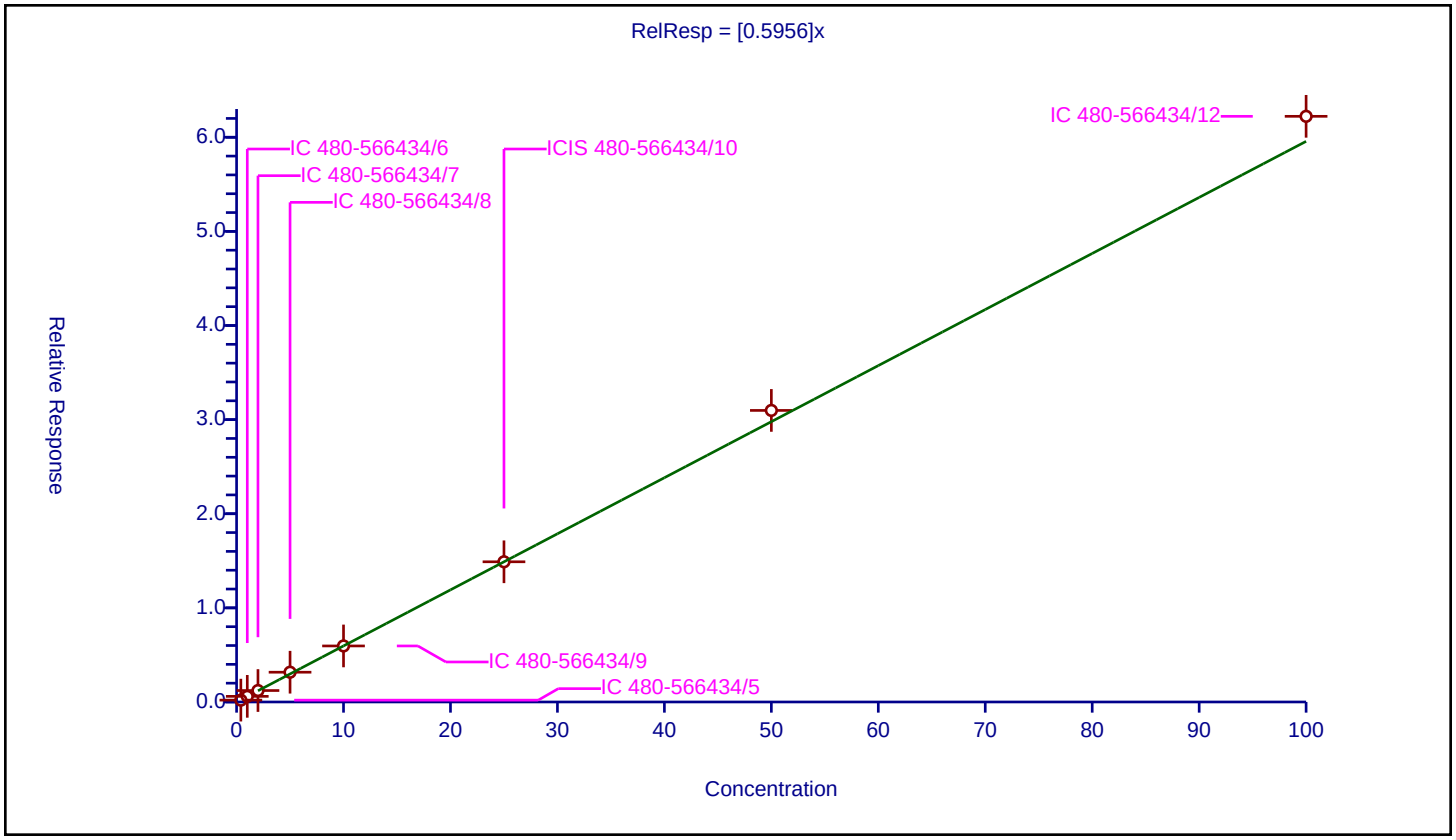
Curve Coefficients

Intercept:	0
Slope:	0.5956

Error Coefficients

Standard Error:	338000
Relative Standard Error:	7.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.196859	25.0	312534.0	0.492146	Y
2	IC 480-566434/6	1.0	0.599203	25.0	309119.0	0.599203	Y
3	IC 480-566434/7	2.0	1.215708	25.0	302951.0	0.607854	Y
4	IC 480-566434/8	5.0	3.164247	25.0	300980.0	0.632849	Y
5	IC 480-566434/9	10.0	5.955058	25.0	311311.0	0.595506	Y
6	ICIS 480-566434/10	25.0	14.895532	25.0	307844.0	0.595821	Y
7	IC 480-566434/11	50.0	30.976577	25.0	323011.0	0.619532	Y
8	IC 480-566434/12	100.0	62.224593	25.0	311131.0	0.622246	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

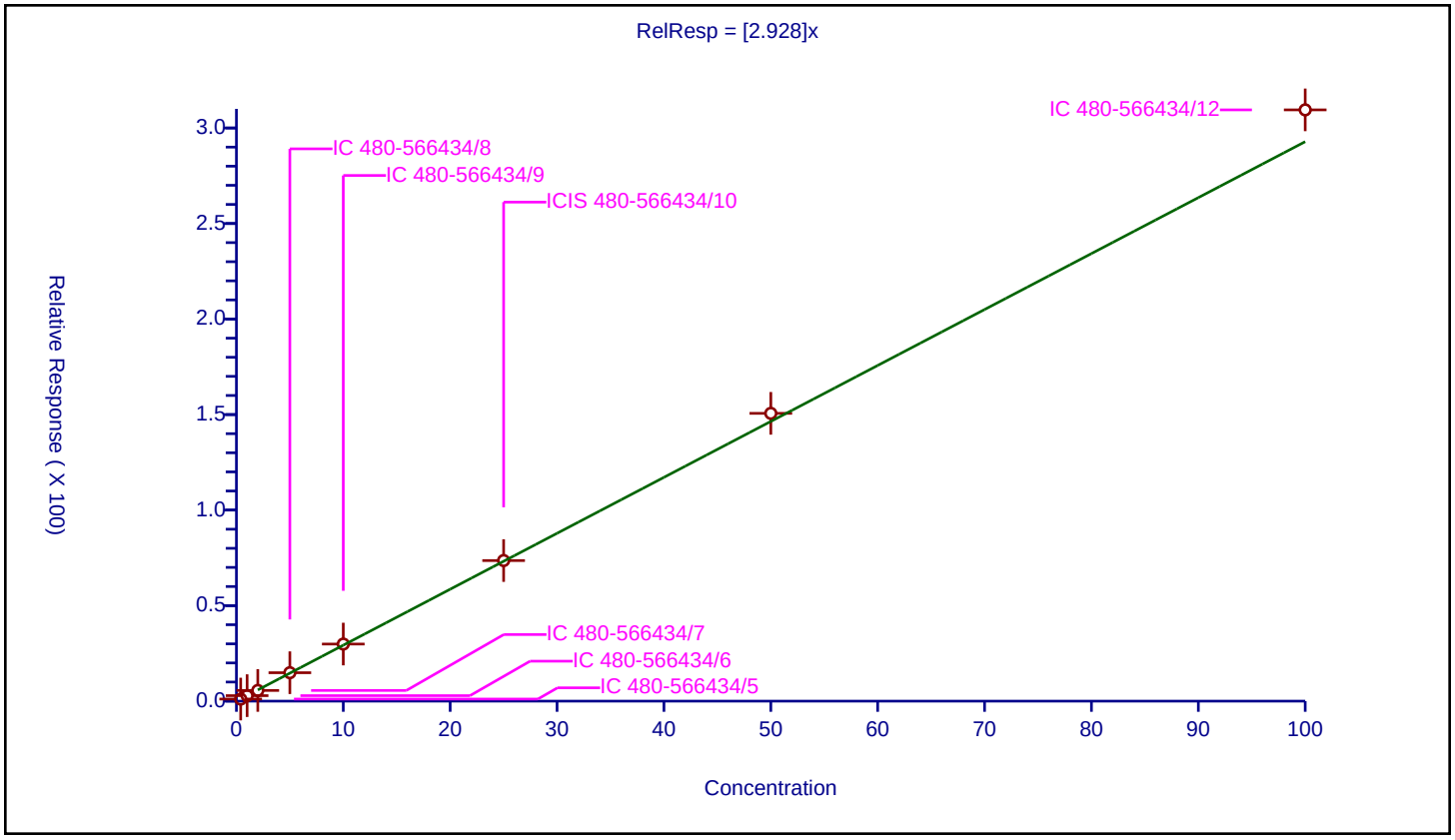
Curve Coefficients

Intercept:	0
Slope:	2.928

Error Coefficients

Standard Error:	1670000
Relative Standard Error:	4.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	1.092281	25.0	312534.0	2.730703	Y
2	IC 480-566434/6	1.0	2.880525	25.0	309119.0	2.880525	Y
3	IC 480-566434/7	2.0	5.599338	25.0	302951.0	2.799669	Y
4	IC 480-566434/8	5.0	14.879228	25.0	300980.0	2.975846	Y
5	IC 480-566434/9	10.0	29.888841	25.0	311311.0	2.988884	Y
6	ICIS 480-566434/10	25.0	73.586378	25.0	307844.0	2.943455	Y
7	IC 480-566434/11	50.0	150.644328	25.0	323011.0	3.012887	Y
8	IC 480-566434/12	100.0	309.481778	25.0	311131.0	3.094818	Y



Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

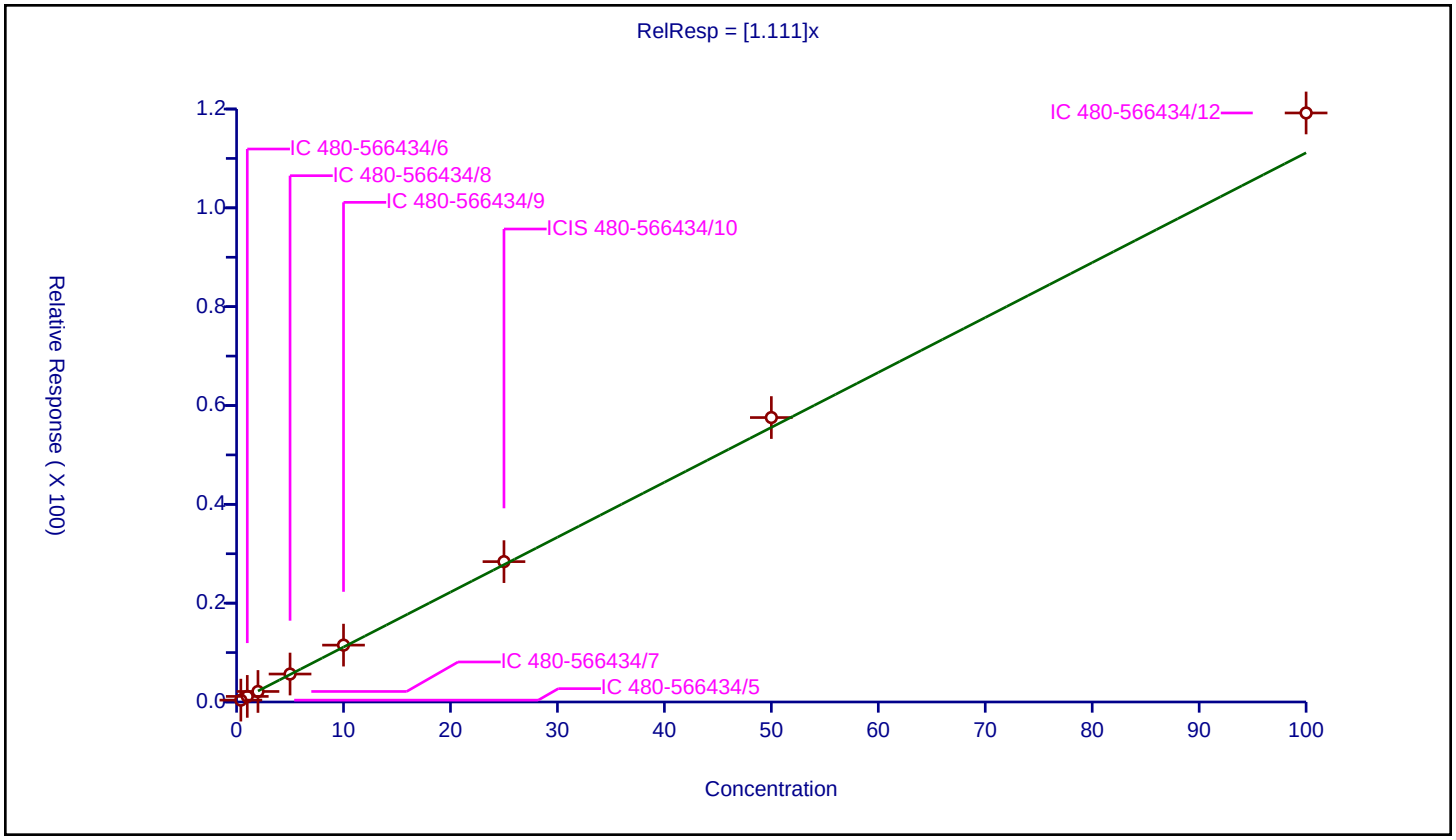
Curve Coefficients

Intercept:	0
Slope:	1.111

Error Coefficients

Standard Error:	644000
Relative Standard Error:	7.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-566434/5	0.4	0.374519	25.0	312534.0	0.936298	Y
2	IC 480-566434/6	1.0	1.128934	25.0	309119.0	1.128934	Y
3	IC 480-566434/7	2.0	2.129222	25.0	302951.0	1.064611	Y
4	IC 480-566434/8	5.0	5.65727	25.0	300980.0	1.131454	Y
5	IC 480-566434/9	10.0	11.50915	25.0	311311.0	1.150915	Y
6	ICIS 480-566434/10	25.0	28.402616	25.0	307844.0	1.136105	Y
7	IC 480-566434/11	50.0	57.56112	25.0	323011.0	1.151222	Y
8	IC 480-566434/12	100.0	119.202522	25.0	311131.0	1.192025	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: ICV 480-568392/22 Calibration Date: 02/04/2021 20:52

Instrument ID: HP5973F Calib Start Date: 02/04/2021 12:55

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 02/04/2021 15:34

Lab File ID: F0427.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.338	1.340	0.1000	50.1	50.0	0.2	50.0
Chloromethane	Ave	1.785	1.739	0.1000	48.7	50.0	-2.5	30.0
Vinyl chloride	Ave	1.552	1.547	0.1000	49.8	50.0	-0.3	30.0
Butadiene	Ave	1.581	1.412		44.6	50.0	-10.7	30.0
Bromomethane	Ave	0.999	0.9579	0.1000	47.9	50.0	-4.1	50.0
Chloroethane	Ave	0.8969	0.8380	0.1000	46.7	50.0	-6.6	50.0
Dichlorofluoromethane	Ave	2.229	2.062		46.3	50.0	-7.5	30.0
Trichlorofluoromethane	Ave	1.885	1.821	0.1000	48.3	50.0	-3.4	30.0
Ethyl ether	Ave	1.422	1.539		54.1	50.0	8.3	30.0
Acrolein	Ave	0.1620	0.2652		409	250	63.7*	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.118	1.217	0.1000	54.4	50.0	8.8	30.0
1,1-Dichloroethene	Ave	1.195	1.298	0.1000	54.3	50.0	8.6	30.0
Acetone	Ave	0.5407	0.5588	0.1000	258	250	3.4	50.0
Iodomethane	Ave	2.301	2.507		54.5	50.0	9.0	30.0
Carbon disulfide	Ave	4.203	4.563	0.1000	54.3	50.0	8.5	30.0
Methyl acetate	Ave	1.274	1.439	0.1000	113	100	12.9	50.0
Allyl chloride	Ave	2.857	3.013		52.7	50.0	5.5	30.0
Methylene Chloride	Lin1		1.658	0.1000	51.4	50.0	2.8	30.0
2-Methyl-2-propanol	Ave	0.1703	0.1907		560	500	11.9	50.0
Methyl tert-butyl ether	Ave	4.510	4.931	0.1000	54.7	50.0	9.3	30.0
Acrylonitrile	Ave	0.5928	0.6352		536	500	7.2	30.0
trans-1,2-Dichloroethene	Ave	1.476	1.574	0.1000	53.3	50.0	6.6	30.0
Hexane	Ave	2.200	2.260		51.4	50.0	2.7	30.0
Vinyl acetate	Ave	3.806	3.063		80.5	100	-19.5	30.0
1,1-Dichloroethane	Ave	2.823	2.937	0.2000	52.0	50.0	4.0	30.0
2-Butanone (MEK)	Ave	0.8123	0.8657	0.1000	266	250	6.6	30.0
2,2-Dichloropropane	Ave	1.909	1.941		50.8	50.0	1.7	30.0
cis-1,2-Dichloroethene	Ave	1.675	1.797	0.1000	53.6	50.0	7.3	30.0
Chlorobromomethane	Ave	0.7953	0.8336		52.4	50.0	4.8	30.0
Tetrahydrofuran	Ave	0.5560	0.5677		102	100	2.1	30.0
Chloroform	Ave	2.923	2.934	0.2000	50.2	50.0	0.4	30.0
1,1,1-Trichloroethane	Ave	2.436	2.425	0.1000	49.8	50.0	-0.5	30.0
Cyclohexane	Ave	2.455	2.653	0.1000	54.0	50.0	8.1	30.0
1,1-Dichloropropene	Ave	2.095	2.115		50.5	50.0	1.0	30.0
Carbon tetrachloride	Ave	2.063	2.102	0.1000	51.0	50.0	1.9	30.0
Isobutyl alcohol	Ave	0.0785	0.0932		1480	1250	18.8	50.0
Benzene	Ave	6.291	6.379	0.5000	50.7	50.0	1.4	30.0
1,2-Dichloroethane	Ave	2.559	2.454	0.1000	47.9	50.0	-4.1	30.0
n-Heptane	Ave	2.448	2.366		48.3	50.0	-3.4	30.0
Trichloroethene	Ave	1.575	1.596	0.2000	50.7	50.0	1.3	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: ICV 480-568392/22 Calibration Date: 02/04/2021 20:52

Instrument ID: HP5973F Calib Start Date: 02/04/2021 12:55

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 02/04/2021 15:34

Lab File ID: F0427.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.366	2.468	0.1000	52.2	50.0	4.3	30.0
1,2-Dichloropropane	Ave	1.514	1.566	0.1000	51.7	50.0	3.4	30.0
1,4-Dioxane	Ave	0.0074	0.0083		1120	1000	12.0	50.0
Dibromomethane	Ave	0.9450	0.9814	0.1000	51.9	50.0	3.9	30.0
Bromodichloromethane	Ave	2.178	2.220	0.2000	51.0	50.0	1.9	30.0
2-Chloroethyl vinyl ether	Ave	0.7490	0.7717		51.5	50.0	3.0	30.0
cis-1,3-Dichloropropene	Ave	2.516	2.534	0.2000	50.3	50.0	0.7	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.8177	0.9001	0.1000	275	250	10.1	30.0
Toluene	Ave	1.958	1.943	0.4000	49.6	50.0	-0.8	30.0
trans-1,3-Dichloropropene	Ave	1.187	1.112	0.1000	46.9	50.0	-6.3	30.0
Ethyl methacrylate	Ave	0.9012	0.9014		50.0	50.0	0.0	30.0
1,1,2-Trichloroethane	Ave	0.5110	0.5298	0.1000	51.8	50.0	3.7	30.0
Tetrachloroethene	Ave	0.7682	0.7767	0.2000	50.6	50.0	1.1	30.0
1,3-Dichloropropane	Ave	1.119	1.107		49.5	50.0	-1.1	30.0
2-Hexanone	Ave	0.5555	0.6092	0.1000	274	250	9.7	30.0
Dibromochloromethane	Ave	0.7196	0.7780	0.1000	54.1	50.0	8.1	30.0
1,2-Dibromoethane	Ave	0.6232	0.6419		51.5	50.0	3.0	30.0
Chlorobenzene	Ave	2.058	2.043	0.5000	49.6	50.0	-0.7	30.0
1,1,1,2-Tetrachloroethane	Ave	0.7879	0.7873		50.0	50.0	-0.0	30.0
Ethylbenzene	Ave	3.565	3.498	0.1000	49.1	50.0	-1.9	30.0
m,p-Xylene	Ave	1.371	1.350	0.1000	49.2	50.0	-1.5	30.0
o-Xylene	Ave	1.334	1.361	0.3000	51.0	50.0	2.0	30.0
Styrene	Ave	2.251	2.212	0.3000	49.1	50.0	-1.7	30.0
Bromoform	Ave	0.4650	0.4895	0.1000	52.6	50.0	5.3	50.0
Isopropylbenzene	Ave	3.920	4.007	0.1000	51.1	50.0	2.2	30.0
1,1,2,2-Tetrachloroethane	Ave	0.8756	0.9210	0.3000	52.6	50.0	5.2	30.0
Bromobenzene	Ave	0.9863	0.9930		50.3	50.0	0.7	30.0
trans-1,4-Dichloro-2-butene	Ave	0.3215	0.3138		48.8	50.0	-2.4	50.0
1,2,3-Trichloropropane	Ave	0.2816	0.2996		53.2	50.0	6.4	30.0
N-Propylbenzene	Ave	4.595	4.550		49.5	50.0	-1.0	30.0
2-Chlorotoluene	Ave	0.9066	0.9278		51.2	50.0	2.3	30.0
1,3,5-Trimethylbenzene	Ave	3.360	3.409		50.7	50.0	1.5	30.0
4-Chlorotoluene	Ave	0.9231	0.9198		49.8	50.0	-0.4	30.0
tert-Butylbenzene	Ave	0.7078	0.7340		51.8	50.0	3.7	30.0
1,2,4-Trimethylbenzene	Ave	3.360	3.472		51.7	50.0	3.3	30.0
sec-Butylbenzene	Ave	4.067	4.169		51.3	50.0	2.5	30.0
4-Isopropyltoluene	Ave	3.533	3.595		50.9	50.0	1.8	30.0
1,3-Dichlorobenzene	Ave	1.881	1.856	0.6000	49.3	50.0	-1.3	30.0
1,4-Dichlorobenzene	Ave	1.905	1.873	0.5000	49.1	50.0	-1.7	30.0
n-Butylbenzene	Ave	3.090	3.093		50.1	50.0	0.1	30.0
1,2-Dichlorobenzene	Ave	1.790	1.823	0.4000	50.9	50.0	1.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: ICV 480-568392/22 Calibration Date: 02/04/2021 20:52

Instrument ID: HP5973F Calib Start Date: 02/04/2021 12:55

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 02/04/2021 15:34

Lab File ID: F0427.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1818	0.1846	0.0500	50.8	50.0	1.5	50.0
1,2,4-Trichlorobenzene	Ave	1.287	1.309	0.2000	50.9	50.0	1.7	30.0
Hexachlorobutadiene	Ave	0.6956	0.7114		51.1	50.0	2.3	30.0
Naphthalene	Ave	2.776	3.007		54.2	50.0	8.3	30.0
1,2,3-Trichlorobenzene	Ave	1.216	1.250		51.4	50.0	2.8	30.0
Dibromofluoromethane (Surr)	Ave	1.250	1.260		50.4	50.0	0.8	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7861	0.7765		49.4	50.0	-1.2	30.0
Toluene-d8 (Surr)	Ave	2.354	2.337		49.6	50.0	-0.7	30.0
4-Bromofluorobenzene (Surr)	Ave	0.7033	0.7073		50.3	50.0	0.6	30.0

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0427.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 04-Feb-2021 20:52:30 ALS Bottle#: 22 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 480-0096467-022
Operator ID: WD Instrument ID: HP5973F
Sublist:

Method: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 05-Feb-2021 10:04:47 Calib Date: 04-Feb-2021 19:06:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0423.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1680

First Level Reviewer: dahnw Date: 05-Feb-2021 09:25:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.545	5.551	-0.006	98	232780	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.386	8.386	0.000	88	465314	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.704	10.704	0.000	95	412202	50.0	50.0	
$ 154 Dibromofluoromethane (Surr)	113	4.997	4.991	0.006	93	293333	50.0	50.4	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.289	5.283	0.006	100	180753	50.0	49.4	
$ 5 Toluene-d8 (Surr)	98	6.938	6.938	0.000	94	1087351	50.0	49.6	
$ 6 4-Bromofluorobenzene (Surr)	174	9.602	9.603	-0.001	91	329111	50.0	50.3	
10 Dichlorodifluoromethane	85	1.968	1.968	0.000	99	311902	50.0	50.1	
12 Chloromethane	50	2.162	2.156	0.006	99	404907	50.0	48.7	
13 Vinyl chloride	62	2.266	2.260	0.006	97	360148	50.0	49.8	
151 Butadiene	54	2.272	2.272	0.000	96	328685	50.0	44.6	
14 Bromomethane	94	2.564	2.564	0.000	91	222977	50.0	47.9	
15 Chloroethane	64	2.637	2.637	0.000	99	195079	50.0	46.7	
16 Dichlorofluoromethane	67	2.789	2.783	0.006	96	479979	50.0	46.3	
17 Trichlorofluoromethane	101	2.825	2.825	0.000	96	424004	50.0	48.3	
18 Ethyl ether	59	3.032	3.026	0.006	95	358329	50.0	54.1	
20 Acrolein	56	3.172	3.172	0.000	98	308720	250.0	409.2	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.227	3.227	0.000	93	283227	50.0	54.4	
22 1,1-Dichloroethene	96	3.251	3.245	0.006	94	302240	50.0	54.3	
23 Acetone	43	3.282	3.282	0.000	98	650371	250.0	258.4	
25 Iodomethane	142	3.403	3.397	0.006	99	583558	50.0	54.5	
26 Carbon disulfide	76	3.464	3.464	0.000	100	1062124	50.0	54.3	
27 Methyl acetate	43	3.519	3.513	0.006	99	669845	100.0	112.9	
28 3-Chloro-1-propene	41	3.525	3.525	0.000	86	701299	50.0	52.7	
30 Methylene Chloride	84	3.628	3.628	0.000	99	386045	50.0	51.4	
31 2-Methyl-2-propanol	59	3.665	3.659	0.006	98	443808	500.0	559.6	
32 Methyl tert-butyl ether	73	3.799	3.793	0.006	97	1147922	50.0	54.7	
33 Acrylonitrile	53	3.817	3.817	0.000	98	1478654	500.0	535.8	
34 trans-1,2-Dichloroethene	96	3.835	3.829	0.006	94	366317	50.0	53.3	
35 Hexane	57	3.993	3.993	0.000	95	526118	50.0	51.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	4.152	4.152	0.000	97	1426166	100.0	80.5	
39 1,1-Dichloroethane	63	4.164	4.164	0.000	97	683684	50.0	52.0	
43 2-Butanone (MEK)	43	4.602	4.602	0.000	98	1007617	250.0	266.5	
44 2,2-Dichloropropane	77	4.614	4.614	0.000	81	451881	50.0	50.8	
45 cis-1,2-Dichloroethene	96	4.620	4.620	0.000	85	418308	50.0	53.6	
48 Chlorobromomethane	128	4.827	4.821	0.006	97	194037	50.0	52.4	
49 Tetrahydrofuran	42	4.845	4.845	0.000	89	264291	100.0	102.1	
50 Chloroform	83	4.863	4.863	0.000	95	683043	50.0	50.2	
51 1,1,1-Trichloroethane	97	5.022	5.016	0.006	98	564529	50.0	49.8	
52 Cyclohexane	56	5.064	5.064	0.000	94	617644	50.0	54.0	
54 1,1-Dichloropropene	75	5.149	5.143	0.006	95	492432	50.0	50.5	
55 Carbon tetrachloride	117	5.161	5.155	0.006	93	489308	50.0	51.0	
53 Isobutyl alcohol	43	5.161	5.162	-0.001	93	542343	1250.0	1484.7	
57 Benzene	78	5.332	5.332	0.000	97	1484974	50.0	50.7	
58 1,2-Dichloroethane	62	5.350	5.350	0.000	98	571191	50.0	47.9	
59 n-Heptane	43	5.447	5.447	0.000	95	550739	50.0	48.3	
62 Trichloroethene	95	5.855	5.855	0.000	96	371504	50.0	50.7	
64 Methylcyclohexane	83	6.013	6.013	0.000	95	574591	50.0	52.2	
65 1,2-Dichloropropane	63	6.074	6.068	0.006	90	364419	50.0	51.7	
66 1,4-Dioxane	88	6.171	6.165	0.006	98	77302	1000.0	1120.4	
67 Dibromomethane	93	6.196	6.190	0.006	95	228449	50.0	51.9	
68 Dichlorobromomethane	83	6.305	6.305	0.000	98	516866	50.0	51.0	
69 2-Chloroethyl vinyl ether	63	6.518	6.518	0.000	93	179642	50.0	51.5	
72 cis-1,3-Dichloropropene	75	6.695	6.695	-0.001	92	589835	50.0	50.3	
73 4-Methyl-2-pentanone (MIBK)	43	6.792	6.792	0.000	99	2094106	250.0	275.2	
74 Toluene	92	7.005	7.005	0.000	98	903914	50.0	49.6	
77 trans-1,3-Dichloropropene	75	7.206	7.206	0.000	98	517616	50.0	46.9	
75 Ethyl methacrylate	69	7.218	7.218	0.000	93	419417	50.0	50.0	
79 1,1,2-Trichloroethane	83	7.400	7.400	0.000	94	246537	50.0	51.8	
81 Tetrachloroethene	166	7.534	7.540	-0.006	96	361404	50.0	50.6	
82 1,3-Dichloropropane	76	7.571	7.571	0.000	97	515222	50.0	49.5	
80 2-Hexanone	43	7.583	7.583	0.000	97	1417375	250.0	274.2	
83 Chlorodibromomethane	129	7.814	7.814	0.000	90	362016	50.0	54.1	
84 Ethylene Dibromide	107	7.948	7.948	0.000	98	298684	50.0	51.5	
87 Chlorobenzene	112	8.416	8.416	0.000	93	950645	50.0	49.6	
89 1,1,1,2-Tetrachloroethane	131	8.489	8.489	0.000	45	366357	50.0	50.0	
88 Ethylbenzene	91	8.489	8.489	0.000	99	1627751	50.0	49.1	
90 m-Xylene & p-Xylene	106	8.605	8.605	0.000	99	628032	50.0	49.2	
91 o-Xylene	106	9.037	9.031	0.006	97	633268	50.0	51.0	
92 Styrene	104	9.055	9.049	0.006	93	1029265	50.0	49.1	
95 Bromoform	173	9.304	9.311	-0.007	96	227794	50.0	52.6	
94 Isopropylbenzene	105	9.402	9.402	0.000	96	1651793	50.0	51.1	
97 1,1,2,2-Tetrachloroethane	83	9.736	9.736	0.000	97	379620	50.0	52.6	
101 Bromobenzene	156	9.773	9.767	0.006	95	409315	50.0	50.3	
98 trans-1,4-Dichloro-2-butene	53	9.785	9.785	0.000	70	129338	50.0	48.8	
100 1,2,3-Trichloropropane	110	9.797	9.791	0.006	83	123486	50.0	53.2	
99 N-Propylbenzene	91	9.815	9.815	0.000	99	1875669	50.0	49.5	
103 2-Chlorotoluene	126	9.937	9.937	0.000	96	382423	50.0	51.2	
102 1,3,5-Trimethylbenzene	105	9.980	9.980	0.000	93	1405217	50.0	50.7	
105 4-Chlorotoluene	126	10.040	10.041	-0.001	99	379162	50.0	49.8	
106 tert-Butylbenzene	134	10.296	10.296	0.000	92	302552	50.0	51.8	
107 1,2,4-Trimethylbenzene	105	10.345	10.345	0.000	95	1431250	50.0	51.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.497	10.497	0.000	95	1718307	50.0	51.3	
110 4-Isopropyltoluene	119	10.618	10.619	0.000	97	1482004	50.0	50.9	
111 1,3-Dichlorobenzene	146	10.649	10.643	0.006	97	765224	50.0	49.3	
113 1,4-Dichlorobenzene	146	10.728	10.722	0.006	94	771944	50.0	49.1	
115 n-Butylbenzene	91	10.990	10.990	0.000	98	1275034	50.0	50.1	
116 1,2-Dichlorobenzene	146	11.069	11.069	0.000	97	751405	50.0	50.9	
117 1,2-Dibromo-3-Chloropropane	75	11.732	11.732	0.000	84	76103	50.0	50.8	
119 1,2,4-Trichlorobenzene	180	12.395	12.395	0.000	94	539768	50.0	50.9	
120 Hexachlorobutadiene	225	12.504	12.504	0.000	96	293235	50.0	51.1	
121 Naphthalene	128	12.626	12.626	0.000	97	1239670	50.0	54.2	
122 1,2,3-Trichlorobenzene	180	12.845	12.845	0.000	95	515278	50.0	51.4	

QC Flag Legend

Processing Flags

Reagents:

SS 8260 CORP_00090	Amount Added: 25.00	Units: uL	
SS GAS CORP_00389	Amount Added: 25.00	Units: uL	
F 8260 IS/SS_00117	Amount Added: 1.00	Units: uL	Run Reagent

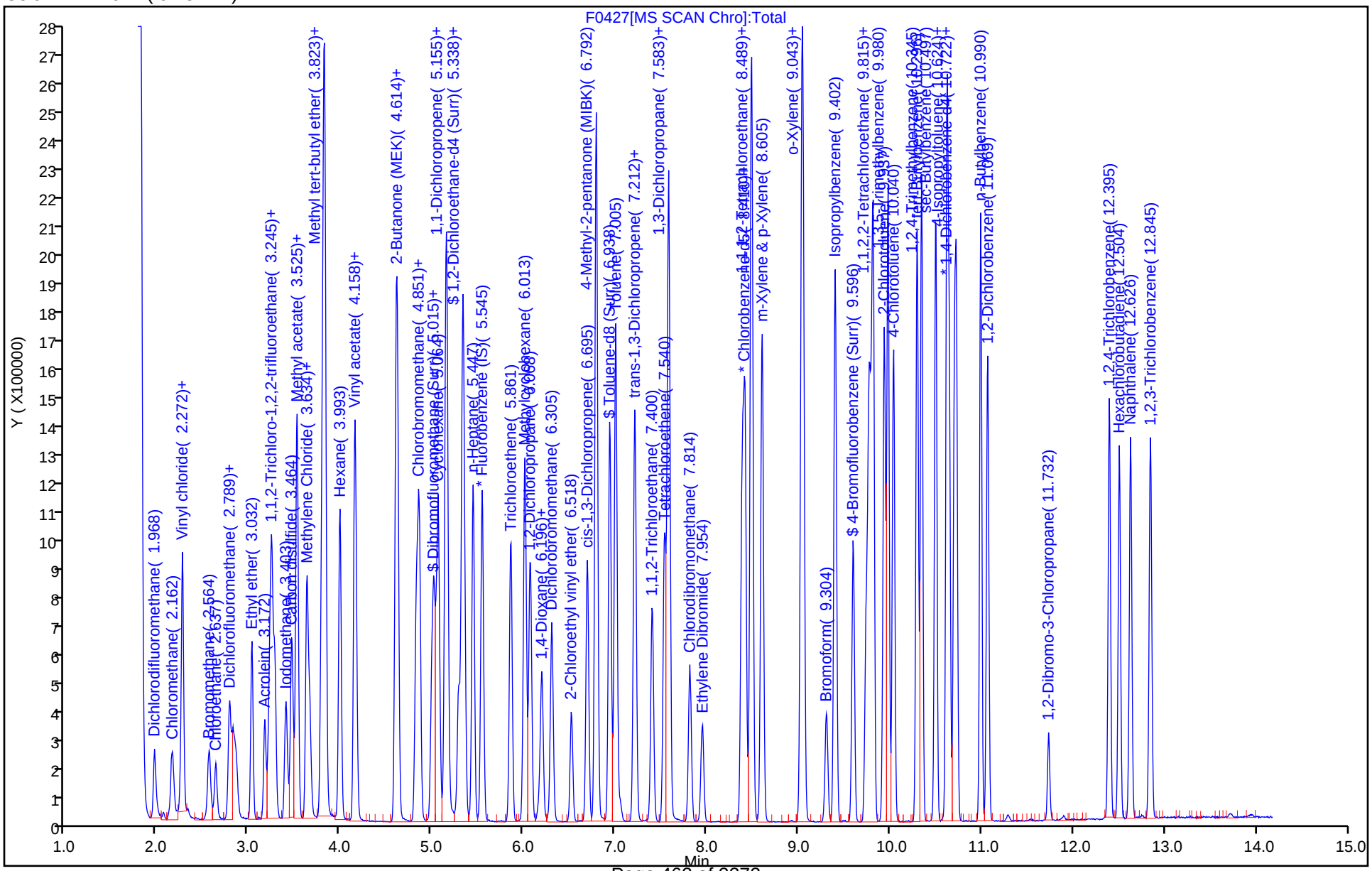
Report Date: 05-Feb-2021 10:05:12 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0427.D

Injection Date:	04-Feb-2021 20:52:30	Instrument ID:	HP5973F	Operator ID:	WD
Lims ID:	ICV			Worklist Smp#:	22
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCVIS 480-569734/3 Calibration Date: 02/17/2021 09:41

Instrument ID: HP5973F Calib Start Date: 02/04/2021 12:55

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 02/04/2021 15:34

Lab File ID: F0657.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.338	1.449	0.1000	54.2	50.0	8.3	50.0
Chloromethane	Ave	1.785	1.720	0.1000	48.2	50.0	-3.6	20.0
Vinyl chloride	Ave	1.552	1.534	0.1000	49.4	50.0	-1.2	20.0
Butadiene	Ave	1.581	1.520		48.1	50.0	-3.9	20.0
Bromomethane	Ave	0.999	0.9305	0.1000	46.6	50.0	-6.9	50.0
Chloroethane	Ave	0.8969	0.8381	0.1000	46.7	50.0	-6.6	50.0
Dichlorofluoromethane	Ave	2.229	2.093		47.0	50.0	-6.1	20.0
Trichlorofluoromethane	Ave	1.885	1.976	0.1000	52.4	50.0	4.8	20.0
Ethyl ether	Ave	1.422	1.364		48.0	50.0	-4.1	20.0
Acrolein	Ave	0.1620	0.1693		261	250	4.5	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.118	1.238	0.1000	55.4	50.0	10.7	20.0
1,1-Dichloroethene	Ave	1.195	1.228	0.1000	51.3	50.0	2.7	20.0
Acetone	Ave	0.5407	0.5419	0.1000	251	250	0.2	50.0
Iodomethane	Ave	2.301	2.523		54.8	50.0	9.7	20.0
Carbon disulfide	Ave	4.203	4.500	0.1000	53.5	50.0	7.1	20.0
Methyl acetate	Ave	1.274	1.422	0.1000	112	100	11.6	50.0
Allyl chloride	Ave	2.857	2.881		50.4	50.0	0.8	20.0
Methylene Chloride	Lin1		1.661	0.1000	51.5	50.0	2.9	20.0
2-Methyl-2-propanol	Ave	0.1703	0.1656		486	500	-2.8	50.0
Methyl tert-butyl ether	Ave	4.510	4.778	0.1000	53.0	50.0	5.9	20.0
Acrylonitrile	Ave	0.5928	0.6410		541	500	8.1	20.0
trans-1,2-Dichloroethene	Ave	1.476	1.544	0.1000	52.3	50.0	4.6	20.0
Hexane	Ave	2.200	2.256		51.3	50.0	2.5	20.0
Vinyl acetate	Ave	3.806	4.014		105	100	5.5	20.0
1,1-Dichloroethane	Ave	2.823	2.885	0.2000	51.1	50.0	2.2	20.0
2-Butanone (MEK)	Ave	0.8123	0.9121	0.1000	281	250	12.3	20.0
2,2-Dichloropropane	Ave	1.909	1.796		47.0	50.0	-5.9	20.0
cis-1,2-Dichloroethene	Ave	1.675	1.718	0.1000	51.3	50.0	2.6	20.0
Chlorobromomethane	Ave	0.7953	0.8687		54.6	50.0	9.2	20.0
Tetrahydrofuran	Ave	0.5560	0.6206		112	100	11.6	20.0
Chloroform	Ave	2.923	2.865	0.2000	49.0	50.0	-2.0	20.0
1,1,1-Trichloroethane	Ave	2.436	2.307	0.1000	47.3	50.0	-5.3	20.0
Cyclohexane	Ave	2.455	2.637	0.1000	53.7	50.0	7.4	20.0
1,1-Dichloropropene	Ave	2.095	2.179		52.0	50.0	4.0	20.0
Carbon tetrachloride	Ave	2.063	2.122	0.1000	51.4	50.0	2.9	20.0
Isobutyl alcohol	Ave	0.0785	0.0869		1380	1250	10.8	50.0
Benzene	Ave	6.291	6.436	0.5000	51.2	50.0	2.3	20.0
1,2-Dichloroethane	Ave	2.559	2.355	0.1000	46.0	50.0	-7.9	20.0
n-Heptane	Ave	2.448	2.533		51.7	50.0	3.5	20.0
Trichloroethene	Ave	1.575	1.574	0.2000	50.0	50.0	-0.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCVIS 480-569734/3 Calibration Date: 02/17/2021 09:41

Instrument ID: HP5973F Calib Start Date: 02/04/2021 12:55

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 02/04/2021 15:34

Lab File ID: F0657.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.366	2.495	0.1000	52.7	50.0	5.5	20.0
1,2-Dichloropropane	Ave	1.514	1.573	0.1000	52.0	50.0	3.9	20.0
1,4-Dioxane	Ave	0.0074	0.0088		1190	1000	18.9	50.0
Dibromomethane	Ave	0.9450	0.9665	0.1000	51.1	50.0	2.3	20.0
Bromodichloromethane	Ave	2.178	2.147	0.2000	49.3	50.0	-1.4	20.0
2-Chloroethyl vinyl ether	Ave	0.7490	0.8137		54.3	50.0	8.6	20.0
cis-1,3-Dichloropropene	Ave	2.516	2.664	0.2000	52.9	50.0	5.9	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.8177	0.8892	0.1000	272	250	8.7	20.0
Toluene	Ave	1.958	1.894	0.4000	48.4	50.0	-3.3	20.0
trans-1,3-Dichloropropene	Ave	1.187	1.171	0.1000	49.3	50.0	-1.3	20.0
Ethyl methacrylate	Ave	0.9012	0.9544		53.0	50.0	5.9	20.0
1,1,2-Trichloroethane	Ave	0.5110	0.5191	0.1000	50.8	50.0	1.6	20.0
Tetrachloroethene	Ave	0.7682	0.8184	0.2000	53.3	50.0	6.5	20.0
1,3-Dichloropropane	Ave	1.119	1.137		50.8	50.0	1.6	20.0
2-Hexanone	Ave	0.5555	0.6142	0.1000	276	250	10.6	20.0
Dibromochloromethane	Ave	0.7196	0.7577	0.1000	52.7	50.0	5.3	20.0
1,2-Dibromoethane	Ave	0.6232	0.6667		53.5	50.0	7.0	20.0
Chlorobenzene	Ave	2.058	2.127	0.5000	51.7	50.0	3.4	20.0
Ethylbenzene	Ave	3.565	3.461	0.1000	48.5	50.0	-2.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.7879	0.8040		51.0	50.0	2.0	20.0
m,p-Xylene	Ave	1.371	1.386	0.1000	50.5	50.0	1.1	20.0
o-Xylene	Ave	1.334	1.401	0.3000	52.5	50.0	5.0	20.0
Styrene	Ave	2.251	2.290	0.3000	50.9	50.0	1.8	20.0
Bromoform	Ave	0.4650	0.5140	0.1000	55.3	50.0	10.5	50.0
Isopropylbenzene	Ave	3.920	3.818	0.1000	48.7	50.0	-2.6	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8756	0.8767	0.3000	50.1	50.0	0.1	20.0
Bromobenzene	Ave	0.9863	0.9474		48.0	50.0	-3.9	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3215	0.3104		48.3	50.0	-3.5	50.0
1,2,3-Trichloropropane	Ave	0.2816	0.2821		50.1	50.0	0.2	20.0
N-Propylbenzene	Ave	4.595	4.248		46.2	50.0	-7.5	20.0
2-Chlorotoluene	Ave	0.9066	0.8759		48.3	50.0	-3.4	20.0
1,3,5-Trimethylbenzene	Ave	3.360	3.252		48.4	50.0	-3.2	20.0
4-Chlorotoluene	Ave	0.9231	0.8933		48.4	50.0	-3.2	20.0
tert-Butylbenzene	Ave	0.7078	0.7160		50.6	50.0	1.2	20.0
1,2,4-Trimethylbenzene	Ave	3.360	3.284		48.9	50.0	-2.3	20.0
sec-Butylbenzene	Ave	4.067	3.953		48.6	50.0	-2.8	20.0
4-Isopropyltoluene	Ave	3.533	3.487		49.3	50.0	-1.3	20.0
1,3-Dichlorobenzene	Ave	1.881	1.796	0.6000	47.7	50.0	-4.5	20.0
1,4-Dichlorobenzene	Ave	1.905	1.783	0.5000	46.8	50.0	-6.4	20.0
n-Butylbenzene	Ave	3.090	2.938		47.5	50.0	-4.9	20.0
1,2-Dichlorobenzene	Ave	1.790	1.728	0.4000	48.3	50.0	-3.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCVIS 480-569734/3 Calibration Date: 02/17/2021 09:41

Instrument ID: HP5973F Calib Start Date: 02/04/2021 12:55

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 02/04/2021 15:34

Lab File ID: F0657.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1818	0.1795	0.0500	49.4	50.0	-1.3	50.0
1,2,4-Trichlorobenzene	Ave	1.287	1.267	0.2000	49.2	50.0	-1.6	20.0
Hexachlorobutadiene	Ave	0.6956	0.6946		49.9	50.0	-0.1	20.0
Naphthalene	Ave	2.776	3.023		54.4	50.0	8.9	20.0
1,2,3-Trichlorobenzene	Ave	1.216	1.176		48.3	50.0	-3.3	20.0
Dibromofluoromethane (Surr)	Ave	1.250	1.324		53.0	50.0	5.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7861	0.7596		48.3	50.0	-3.4	20.0
Toluene-d8 (Surr)	Ave	2.354	2.298		48.8	50.0	-2.3	20.0
4-Bromofluorobenzene (Surr)	Ave	0.7033	0.7744		55.1	50.0	10.1	20.0

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210217-96701.b\F0657.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 17-Feb-2021 09:41:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0096701-003
Operator ID: WD Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\chromfs\Buffalo\ChromData\HP5973F\20210217-96701.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 17-Feb-2021 10:33:09 Calib Date: 04-Feb-2021 19:06:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0423.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1657

First Level Reviewer: dahnw Date: 17-Feb-2021 10:33:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.539	5.539	0.000	99	213999	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.380	8.380	0.000	87	443758	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.703	10.703	0.000	95	422011	50.0	50.0	
$ 154 Dibromofluoromethane (Surr)	113	4.997	4.997	0.000	93	283253	50.0	53.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.289	5.289	0.000	99	162552	50.0	48.3	
$ 5 Toluene-d8 (Surr)	98	6.938	6.938	0.000	93	1019976	50.0	48.8	
$ 6 4-Bromofluorobenzene (Surr)	174	9.596	9.596	0.000	91	343655	50.0	55.1	
10 Dichlorodifluoromethane	85	1.961	1.961	0.000	99	310036	50.0	54.2	
12 Chloromethane	50	2.156	2.156	0.000	99	368100	50.0	48.2	
13 Vinyl chloride	62	2.259	2.259	0.000	98	328304	50.0	49.4	
151 Butadiene	54	2.272	2.272	0.000	95	325320	50.0	48.1	
14 Bromomethane	94	2.564	2.564	0.000	92	199126	50.0	46.6	
15 Chloroethane	64	2.637	2.637	0.000	99	179347	50.0	46.7	
16 Dichlorofluoromethane	67	2.783	2.783	0.000	96	447955	50.0	47.0	
17 Trichlorofluoromethane	101	2.831	2.831	0.000	97	422852	50.0	52.4	
18 Ethyl ether	59	3.032	3.032	0.000	94	291884	50.0	48.0	
20 Acrolein	56	3.172	3.172	0.000	99	181190	250.0	261.3	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.227	3.227	0.000	93	264916	50.0	55.4	
22 1,1-Dichloroethene	96	3.251	3.251	0.000	95	262703	50.0	51.3	
23 Acetone	43	3.282	3.282	0.000	98	579828	250.0	250.6	
25 Iodomethane	142	3.403	3.403	0.000	98	539982	50.0	54.8	
26 Carbon disulfide	76	3.464	3.464	0.000	100	963073	50.0	53.5	
27 Methyl acetate	43	3.513	3.513	0.000	98	608702	100.0	111.6	
28 3-Chloro-1-propene	41	3.525	3.525	0.000	89	616463	50.0	50.4	
30 Methylene Chloride	84	3.628	3.628	0.000	97	355352	50.0	51.5	
31 2-Methyl-2-propanol	59	3.659	3.659	0.000	98	354487	500.0	486.2	
32 Methyl tert-butyl ether	73	3.799	3.799	0.000	97	1022488	50.0	53.0	
33 Acrylonitrile	53	3.817	3.817	0.000	99	1371800	500.0	540.7	
34 trans-1,2-Dichloroethene	96	3.829	3.829	0.000	96	330324	50.0	52.3	
35 Hexane	57	3.987	3.987	0.000	95	482729	50.0	51.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	4.151	4.151	0.000	97	1718146	100.0	105.5	
39 1,1-Dichloroethane	63	4.164	4.164	0.000	96	617355	50.0	51.1	
43 2-Butanone (MEK)	43	4.596	4.596	0.000	99	975895	250.0	280.7	
44 2,2-Dichloropropane	77	4.614	4.614	0.000	90	384353	50.0	47.0	
45 cis-1,2-Dichloroethene	96	4.620	4.620	0.000	84	367720	50.0	51.3	
48 Chlorobromomethane	128	4.821	4.821	0.000	97	185892	50.0	54.6	
49 Tetrahydrofuran	42	4.845	4.845	0.000	90	265634	100.0	111.6	
50 Chloroform	83	4.857	4.857	0.000	95	613084	50.0	49.0	
51 1,1,1-Trichloroethane	97	5.021	5.021	0.000	98	493693	50.0	47.3	
52 Cyclohexane	56	5.064	5.064	0.000	93	564360	50.0	53.7	
54 1,1-Dichloropropene	75	5.143	5.143	0.000	96	466220	50.0	52.0	
55 Carbon tetrachloride	117	5.155	5.155	0.000	92	454084	50.0	51.4	
53 Isobutyl alcohol	43	5.161	5.161	0.000	94	465082	1250.0	1384.9	
57 Benzene	78	5.332	5.332	0.000	97	1377267	50.0	51.2	
58 1,2-Dichloroethane	62	5.350	5.350	0.000	97	504035	50.0	46.0	
59 n-Heptane	43	5.447	5.447	0.000	94	542093	50.0	51.7	
62 Trichloroethene	95	5.855	5.855	0.000	95	336757	50.0	50.0	
64 Methylcyclohexane	83	6.007	6.007	0.000	95	533939	50.0	52.7	
65 1,2-Dichloropropane	63	6.068	6.068	0.000	93	336619	50.0	52.0	
66 1,4-Dioxane	88	6.159	6.159	0.000	96	78228	1000.0	1188.9	M
67 Dibromomethane	93	6.196	6.196	0.000	94	206838	50.0	51.1	
68 Dichlorobromomethane	83	6.299	6.299	0.000	98	459560	50.0	49.3	
69 2-Chloroethyl vinyl ether	63	6.518	6.518	0.000	94	174125	50.0	54.3	
72 cis-1,3-Dichloropropene	75	6.694	6.694	0.000	93	570055	50.0	52.9	
73 4-Methyl-2-pentanone (MIBK)	43	6.786	6.786	0.000	98	1972971	250.0	271.9	
74 Toluene	92	6.999	6.999	0.000	98	840300	50.0	48.4	
77 trans-1,3-Dichloropropene	75	7.205	7.205	0.000	97	519619	50.0	49.3	
75 Ethyl methacrylate	69	7.218	7.218	0.000	92	423540	50.0	53.0	
79 1,1,2-Trichloroethane	83	7.400	7.400	0.000	93	230343	50.0	50.8	
81 Tetrachloroethene	166	7.534	7.534	0.000	97	363166	50.0	53.3	
82 1,3-Dichloropropane	76	7.570	7.570	0.000	95	504555	50.0	50.8	
80 2-Hexanone	43	7.583	7.583	0.000	98	1362675	250.0	276.4	
83 Chlorodibromomethane	129	7.814	7.814	0.000	90	336248	50.0	52.7	
84 Ethylene Dibromide	107	7.948	7.948	0.000	99	295850	50.0	53.5	
87 Chlorobenzene	112	8.416	8.416	0.000	95	944081	50.0	51.7	
88 Ethylbenzene	91	8.483	8.483	0.000	98	1535951	50.0	48.5	
89 1,1,1,2-Tetrachloroethane	131	8.489	8.489	0.000	45	356788	50.0	51.0	
90 m-Xylene & p-Xylene	106	8.599	8.599	0.000	99	614903	50.0	50.5	
91 o-Xylene	106	9.031	9.031	0.000	97	621655	50.0	52.5	
92 Styrene	104	9.049	9.049	0.000	95	1016363	50.0	50.9	
95 Bromoform	173	9.304	9.304	0.000	96	228103	50.0	55.3	
94 Isopropylbenzene	105	9.396	9.396	0.000	96	1611301	50.0	48.7	
97 1,1,2,2-Tetrachloroethane	83	9.736	9.736	0.000	95	369997	50.0	50.1	
101 Bromobenzene	156	9.767	9.767	0.000	92	399810	50.0	48.0	
98 trans-1,4-Dichloro-2-butene	53	9.785	9.785	0.000	70	130988	50.0	48.3	
100 1,2,3-Trichloropropane	110	9.791	9.791	0.000	83	119061	50.0	50.1	
99 N-Propylbenzene	91	9.815	9.815	0.000	99	1792740	50.0	46.2	
103 2-Chlorotoluene	126	9.937	9.937	0.000	97	369654	50.0	48.3	
102 1,3,5-Trimethylbenzene	105	9.973	9.973	0.000	94	1372265	50.0	48.4	
105 4-Chlorotoluene	126	10.034	10.034	0.000	98	376992	50.0	48.4	
106 tert-Butylbenzene	134	10.296	10.296	0.000	92	302154	50.0	50.6	
107 1,2,4-Trimethylbenzene	105	10.345	10.345	0.000	96	1385856	50.0	48.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.497	10.497	0.000	94	1668086	50.0	48.6	
110 4-Isopropyltoluene	119	10.618	10.618	0.000	97	1471468	50.0	49.3	
111 1,3-Dichlorobenzene	146	10.643	10.643	0.000	98	757837	50.0	47.7	
113 1,4-Dichlorobenzene	146	10.722	10.722	0.000	94	752461	50.0	46.8	
115 n-Butylbenzene	91	10.989	10.989	0.000	98	1240028	50.0	47.5	
116 1,2-Dichlorobenzene	146	11.062	11.062	0.000	97	729417	50.0	48.3	
117 1,2-Dibromo-3-Chloropropane	75	11.732	11.732	0.000	86	75762	50.0	49.4	
119 1,2,4-Trichlorobenzene	180	12.395	12.395	0.000	94	534586	50.0	49.2	
120 Hexachlorobutadiene	225	12.504	12.504	0.000	96	293122	50.0	49.9	
121 Naphthalene	128	12.626	12.626	0.000	97	1275777	50.0	54.4	
122 1,2,3-Trichlorobenzene	180	12.839	12.839	0.000	94	496104	50.0	48.3	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00202	Amount Added:	25.00	Units: uL	
GAS CORP mix_00442	Amount Added:	25.00	Units: uL	
F 8260 IS/SS_00117	Amount Added:	1.00	Units: uL	Run Reagent

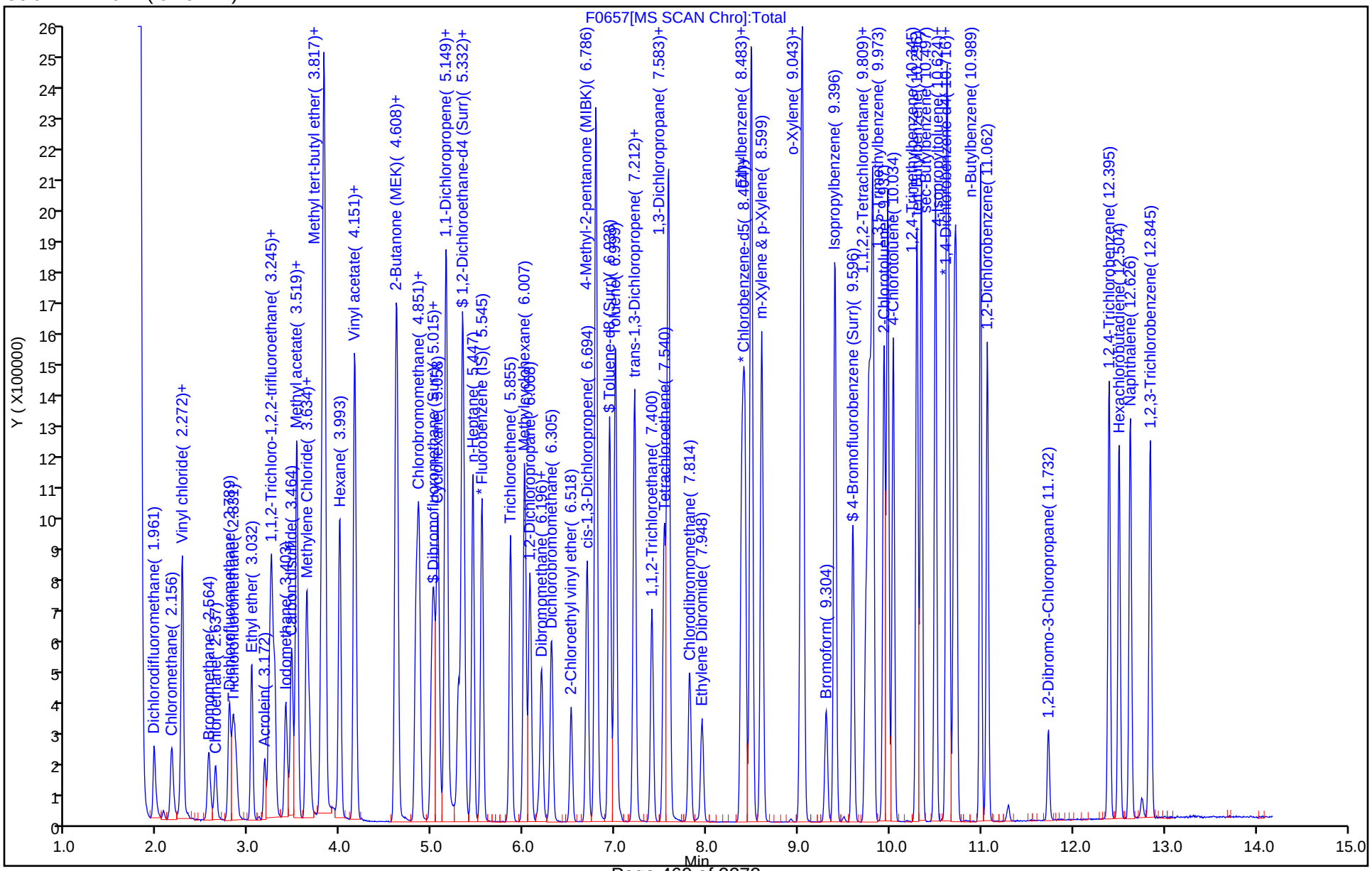
Report Date: 17-Feb-2021 10:33:10 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210217-96701.b\F0657.D

Injection Date:	17-Feb-2021 09:41:30	Instrument ID:	HP5973F	Operator ID:	WD
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

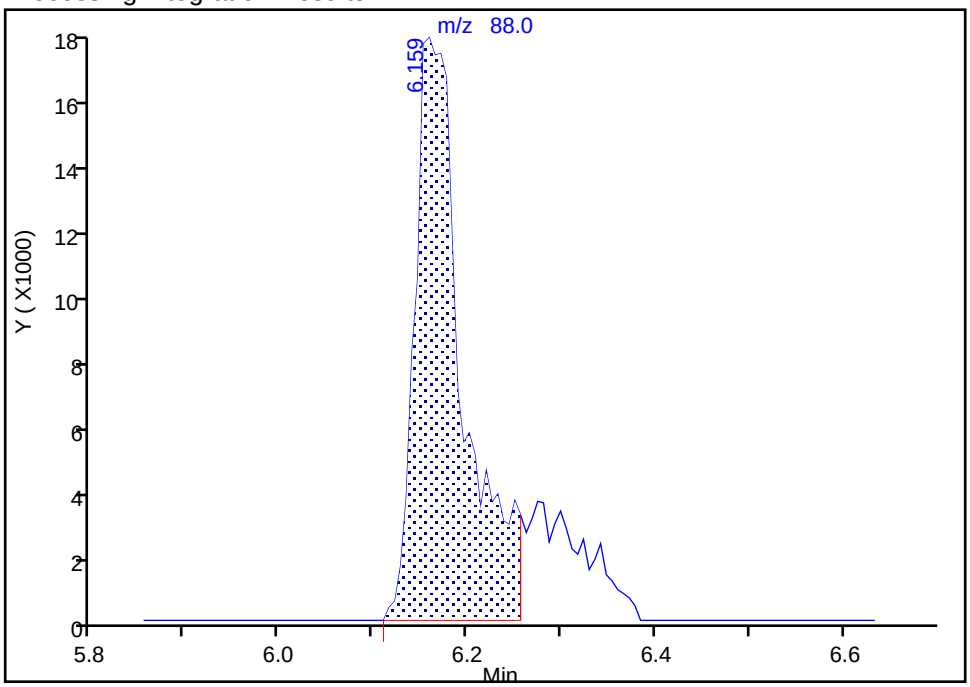
Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210217-96701.b\F0657.D
Injection Date: 17-Feb-2021 09:41:30 Instrument ID: HP5973F
Lims ID: CCVIS
Client ID:
Operator ID: WD ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

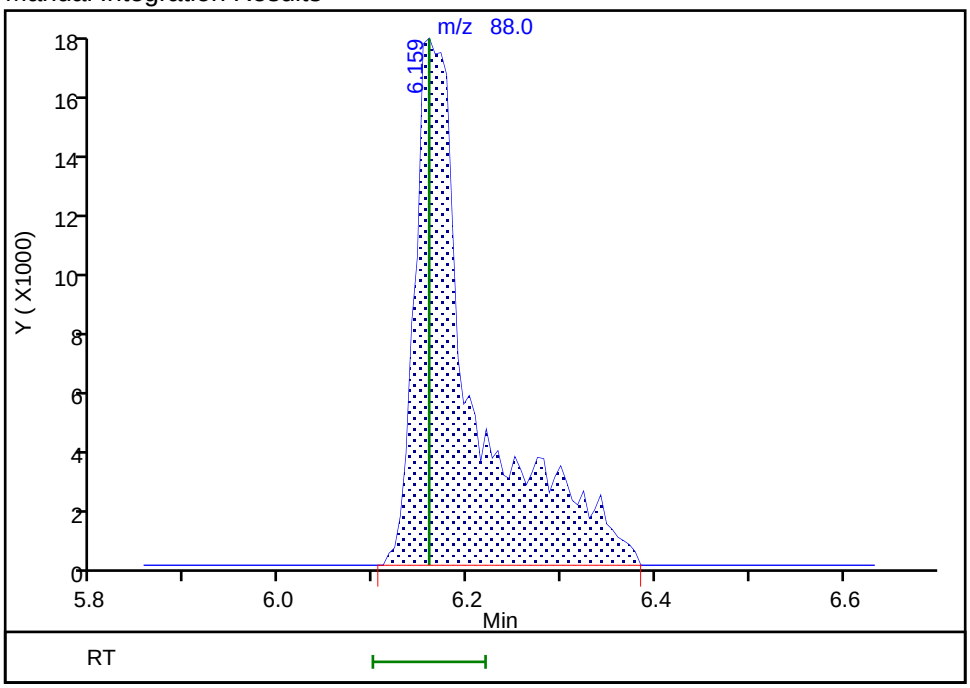
Processing Integration Results

RT: 6.16
Area: 62930
Amount: 956.4402
Amount Units: ug/kg



Manual Integration Results

RT: 6.16
Area: 78228
Amount: 1188.9465
Amount Units: ug/kg



Reviewer: dahnw, 17-Feb-2021 10:32:55
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCVIS 480-569897/3 Calibration Date: 02/18/2021 09:26

Instrument ID: HP5973F Calib Start Date: 02/04/2021 12:55

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 02/04/2021 15:34

Lab File ID: F0685.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.338	1.391	0.1000	52.0	50.0	4.0	50.0
Chloromethane	Ave	1.785	1.704	0.1000	47.8	50.0	-4.5	20.0
Vinyl chloride	Ave	1.552	1.546	0.1000	49.8	50.0	-0.4	20.0
Butadiene	Ave	1.581	1.543		48.8	50.0	-2.4	20.0
Bromomethane	Ave	0.999	0.9237	0.1000	46.2	50.0	-7.6	50.0
Chloroethane	Ave	0.8969	0.8573	0.1000	47.8	50.0	-4.4	50.0
Dichlorofluoromethane	Ave	2.229	2.139		48.0	50.0	-4.1	20.0
Trichlorofluoromethane	Ave	1.885	2.130	0.1000	56.5	50.0	13.0	20.0
Ethyl ether	Ave	1.422	1.399		49.2	50.0	-1.6	20.0
Acrolein	Ave	0.1620	0.1562		241	250	-3.6	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.118	1.240	0.1000	55.5	50.0	10.9	20.0
1,1-Dichloroethene	Ave	1.195	1.280	0.1000	53.6	50.0	7.1	20.0
Acetone	Ave	0.5407	0.5228	0.1000	242	250	-3.3	50.0
Iodomethane	Ave	2.301	2.603		56.6	50.0	13.1	20.0
Carbon disulfide	Ave	4.203	4.638	0.1000	55.2	50.0	10.3	20.0
Methyl acetate	Ave	1.274	1.272	0.1000	99.8	100	-0.2	50.0
Allyl chloride	Ave	2.857	3.009		52.7	50.0	5.3	20.0
Methylene Chloride	Lin1		1.715	0.1000	53.2	50.0	6.4	20.0
2-Methyl-2-propanol	Ave	0.1703	0.1658		487	500	-2.7	50.0
Methyl tert-butyl ether	Ave	4.510	4.675	0.1000	51.8	50.0	3.7	20.0
Acrylonitrile	Ave	0.5928	0.6225		525	500	5.0	20.0
trans-1,2-Dichloroethene	Ave	1.476	1.631	0.1000	55.3	50.0	10.5	20.0
Hexane	Ave	2.200	2.355		53.5	50.0	7.0	20.0
Vinyl acetate	Ave	3.806	3.937		103	100	3.4	20.0
1,1-Dichloroethane	Ave	2.823	3.012	0.2000	53.3	50.0	6.7	20.0
2-Butanone (MEK)	Ave	0.8123	0.8325	0.1000	256	250	2.5	20.0
2,2-Dichloropropane	Ave	1.909	1.846		48.4	50.0	-3.3	20.0
cis-1,2-Dichloroethene	Ave	1.675	1.750	0.1000	52.2	50.0	4.5	20.0
Chlorobromomethane	Ave	0.7953	0.8871		55.8	50.0	11.5	20.0
Tetrahydrofuran	Ave	0.5560	0.5629		101	100	1.2	20.0
Chloroform	Ave	2.923	2.980	0.2000	51.0	50.0	1.9	20.0
1,1,1-Trichloroethane	Ave	2.436	2.430	0.1000	49.9	50.0	-0.2	20.0
Cyclohexane	Ave	2.455	2.703	0.1000	55.0	50.0	10.1	20.0
1,1-Dichloropropene	Ave	2.095	2.294		54.8	50.0	9.5	20.0
Carbon tetrachloride	Ave	2.063	2.192	0.1000	53.1	50.0	6.3	20.0
Isobutyl alcohol	Ave	0.0785	0.0831		1320	1250	5.9	50.0
Benzene	Ave	6.291	6.745	0.5000	53.6	50.0	7.2	20.0
1,2-Dichloroethane	Ave	2.559	2.396	0.1000	46.8	50.0	-6.4	20.0
n-Heptane	Ave	2.448	2.676		54.7	50.0	9.3	20.0
Trichloroethene	Ave	1.575	1.694	0.2000	53.8	50.0	7.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCVIS 480-569897/3 Calibration Date: 02/18/2021 09:26

Instrument ID: HP5973F Calib Start Date: 02/04/2021 12:55

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 02/04/2021 15:34

Lab File ID: F0685.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.366	2.666	0.1000	56.3	50.0	12.7	20.0
1,2-Dichloropropane	Ave	1.514	1.602	0.1000	52.9	50.0	5.8	20.0
1,4-Dioxane	Ave	0.0074	0.0082		1100	1000	10.1	50.0
Dibromomethane	Ave	0.9450	0.9675	0.1000	51.2	50.0	2.4	20.0
Bromodichloromethane	Ave	2.178	2.202	0.2000	50.6	50.0	1.1	20.0
2-Chloroethyl vinyl ether	Ave	0.7490	0.8341		55.7	50.0	11.4	20.0
cis-1,3-Dichloropropene	Ave	2.516	2.751	0.2000	54.7	50.0	9.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.8177	0.8014	0.1000	245	250	-2.0	20.0
Toluene	Ave	1.958	1.971	0.4000	50.3	50.0	0.6	20.0
trans-1,3-Dichloropropene	Ave	1.187	1.167	0.1000	49.2	50.0	-1.7	20.0
Ethyl methacrylate	Ave	0.9012	0.9009		50.0	50.0	-0.0	20.0
1,1,2-Trichloroethane	Ave	0.5110	0.5164	0.1000	50.5	50.0	1.1	20.0
Tetrachloroethene	Ave	0.7682	0.8684	0.2000	56.5	50.0	13.0	20.0
1,3-Dichloropropane	Ave	1.119	1.090		48.7	50.0	-2.6	20.0
2-Hexanone	Ave	0.5555	0.5382	0.1000	242	250	-3.1	20.0
Dibromochloromethane	Ave	0.7196	0.7477	0.1000	52.0	50.0	3.9	20.0
1,2-Dibromoethane	Ave	0.6232	0.6532		52.4	50.0	4.8	20.0
Chlorobenzene	Ave	2.058	2.185	0.5000	53.1	50.0	6.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.7879	0.8203		52.1	50.0	4.1	20.0
Ethylbenzene	Ave	3.565	3.571	0.1000	50.1	50.0	0.2	20.0
m,p-Xylene	Ave	1.371	1.446	0.1000	52.7	50.0	5.5	20.0
o-Xylene	Ave	1.334	1.436	0.3000	53.8	50.0	7.6	20.0
Styrene	Ave	2.251	2.363	0.3000	52.5	50.0	5.0	20.0
Bromoform	Ave	0.4650	0.4930	0.1000	53.0	50.0	6.0	50.0
Isopropylbenzene	Ave	3.920	3.956	0.1000	50.5	50.0	0.9	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8756	0.8290	0.3000	47.3	50.0	-5.3	20.0
Bromobenzene	Ave	0.9863	0.9664		49.0	50.0	-2.0	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3215	0.2952		45.9	50.0	-8.2	50.0
1,2,3-Trichloropropane	Ave	0.2816	0.2634		46.8	50.0	-6.4	20.0
N-Propylbenzene	Ave	4.595	4.387		47.7	50.0	-4.5	20.0
2-Chlorotoluene	Ave	0.9066	0.9184		50.6	50.0	1.3	20.0
1,3,5-Trimethylbenzene	Ave	3.360	3.358		50.0	50.0	-0.0	20.0
4-Chlorotoluene	Ave	0.9231	0.9215		49.9	50.0	-0.2	20.0
tert-Butylbenzene	Ave	0.7078	0.7422		52.4	50.0	4.9	20.0
1,2,4-Trimethylbenzene	Ave	3.360	3.408		50.7	50.0	1.4	20.0
sec-Butylbenzene	Ave	4.067	4.179		51.4	50.0	2.8	20.0
4-Isopropyltoluene	Ave	3.533	3.676		52.0	50.0	4.0	20.0
1,3-Dichlorobenzene	Ave	1.881	1.867	0.6000	49.6	50.0	-0.8	20.0
1,4-Dichlorobenzene	Ave	1.905	1.862	0.5000	48.9	50.0	-2.3	20.0
n-Butylbenzene	Ave	3.090	3.060		49.5	50.0	-1.0	20.0
1,2-Dichlorobenzene	Ave	1.790	1.759	0.4000	49.1	50.0	-1.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCVIS 480-569897/3 Calibration Date: 02/18/2021 09:26

Instrument ID: HP5973F Calib Start Date: 02/04/2021 12:55

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 02/04/2021 15:34

Lab File ID: F0685.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1818	0.1618	0.0500	44.5	50.0	-11.0	50.0
1,2,4-Trichlorobenzene	Ave	1.287	1.277	0.2000	49.6	50.0	-0.8	20.0
Hexachlorobutadiene	Ave	0.6956	0.6946		49.9	50.0	-0.1	20.0
Naphthalene	Ave	2.776	2.887		52.0	50.0	4.0	20.0
1,2,3-Trichlorobenzene	Ave	1.216	1.178		48.4	50.0	-3.1	20.0
Dibromofluoromethane (Surr)	Ave	1.250	1.301		52.0	50.0	4.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7861	0.7369		46.9	50.0	-6.3	20.0
Toluene-d8 (Surr)	Ave	2.354	2.302		48.9	50.0	-2.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.7033	0.7561		53.8	50.0	7.5	20.0

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210218-96726.b\F0685.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 18-Feb-2021 09:26:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0096726-003
Operator ID: WD Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\chromfs\Buffalo\ChromData\HP5973F\20210218-96726.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Feb-2021 10:30:41 Calib Date: 04-Feb-2021 19:06:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0423.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: dahnw Date: 18-Feb-2021 10:30:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.539	5.539	0.000	98	212604	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.380	8.380	0.000	86	450349	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.703	10.703	0.000	94	425094	50.0	50.0	
$ 154 Dibromofluoromethane (Surr)	113	4.997	4.997	0.000	91	276560	50.0	52.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.289	5.289	0.000	99	156669	50.0	46.9	
$ 5 Toluene-d8 (Surr)	98	6.938	6.938	0.000	94	1036519	50.0	48.9	
$ 6 4-Bromofluorobenzene (Surr)	174	9.596	9.596	0.000	91	340513	50.0	53.8	
10 Dichlorodifluoromethane	85	1.967	1.967	0.000	99	295723	50.0	52.0	
12 Chloromethane	50	2.162	2.162	0.000	99	362379	50.0	47.8	
13 Vinyl chloride	62	2.266	2.266	0.000	97	328670	50.0	49.8	
151 Butadiene	54	2.278	2.278	0.000	94	328073	50.0	48.8	
14 Bromomethane	94	2.564	2.564	0.000	91	196388	50.0	46.2	
15 Chloroethane	64	2.643	2.643	0.000	99	182260	50.0	47.8	
16 Dichlorofluoromethane	67	2.789	2.789	0.000	97	454683	50.0	48.0	
17 Trichlorofluoromethane	101	2.831	2.831	0.000	97	452753	50.0	56.5	
18 Ethyl ether	59	3.032	3.032	0.000	94	297435	50.0	49.2	
20 Acrolein	56	3.172	3.172	0.000	99	166075	250.0	241.0	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.227	3.227	0.000	92	263661	50.0	55.5	
22 1,1-Dichloroethene	96	3.245	3.245	0.000	96	272223	50.0	53.6	
23 Acetone	43	3.282	3.282	0.000	99	555731	250.0	241.7	
25 Iodomethane	142	3.403	3.403	0.000	98	553483	50.0	56.6	
26 Carbon disulfide	76	3.464	3.464	0.000	100	985963	50.0	55.2	
27 Methyl acetate	43	3.519	3.519	0.000	98	540786	100.0	99.8	
28 3-Chloro-1-propene	41	3.525	3.525	0.000	88	639620	50.0	52.7	
30 Methylene Chloride	84	3.628	3.628	0.000	97	364572	50.0	53.2	
31 2-Methyl-2-propanol	59	3.659	3.659	0.000	98	352447	500.0	486.6	
32 Methyl tert-butyl ether	73	3.799	3.799	0.000	96	993920	50.0	51.8	
33 Acrylonitrile	53	3.817	3.817	0.000	99	1323383	500.0	525.0	
34 trans-1,2-Dichloroethene	96	3.829	3.829	0.000	95	346813	50.0	55.3	
35 Hexane	57	3.987	3.987	0.000	95	500659	50.0	53.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	4.151	4.151	0.000	97	1674009	100.0	103.4	
39 1,1-Dichloroethane	63	4.164	4.164	0.000	97	640345	50.0	53.3	
43 2-Butanone (MEK)	43	4.602	4.602	0.000	99	884956	250.0	256.2	
44 2,2-Dichloropropane	77	4.608	4.608	0.000	90	392534	50.0	48.4	
45 cis-1,2-Dichloroethene	96	4.620	4.620	0.000	84	372086	50.0	52.2	
48 Chlorobromomethane	128	4.827	4.827	0.000	96	188595	50.0	55.8	
49 Tetrahydrofuran	42	4.845	4.845	0.000	91	239332	100.0	101.2	
50 Chloroform	83	4.857	4.857	0.000	95	633463	50.0	51.0	
51 1,1,1-Trichloroethane	97	5.021	5.021	0.000	99	516691	50.0	49.9	
52 Cyclohexane	56	5.064	5.064	0.000	93	574645	50.0	55.0	
54 1,1-Dichloropropene	75	5.143	5.143	0.000	97	487812	50.0	54.8	
55 Carbon tetrachloride	117	5.155	5.155	0.000	94	466006	50.0	53.1	
53 Isobutyl alcohol	43	5.161	5.161	0.000	93	441563	1250.0	1323.5	
57 Benzene	78	5.332	5.332	0.000	97	1434052	50.0	53.6	
58 1,2-Dichloroethane	62	5.350	5.350	0.000	97	509364	50.0	46.8	
59 n-Heptane	43	5.447	5.447	0.000	96	568907	50.0	54.7	
62 Trichloroethene	95	5.855	5.855	0.000	95	360203	50.0	53.8	
64 Methylcyclohexane	83	6.013	6.013	0.000	95	566818	50.0	56.3	
65 1,2-Dichloropropane	63	6.068	6.068	0.000	94	340544	50.0	52.9	
66 1,4-Dioxane	88	6.165	6.165	0.000	94	73538	1000.0	1101.3	
67 Dibromomethane	93	6.196	6.196	0.000	95	205700	50.0	51.2	
68 Dichlorobromomethane	83	6.305	6.305	0.000	98	468246	50.0	50.6	
69 2-Chloroethyl vinyl ether	63	6.518	6.518	0.000	93	177343	50.0	55.7	
72 cis-1,3-Dichloropropene	75	6.694	6.694	0.000	94	584936	50.0	54.7	
73 4-Methyl-2-pentanone (MIBK)	43	6.792	6.792	0.000	98	1804512	250.0	245.0	
74 Toluene	92	6.999	6.999	0.000	98	887505	50.0	50.3	
77 trans-1,3-Dichloropropene	75	7.205	7.205	0.000	96	525450	50.0	49.2	
75 Ethyl methacrylate	69	7.218	7.218	0.000	91	405734	50.0	50.0	
79 1,1,2-Trichloroethane	83	7.400	7.400	0.000	92	232557	50.0	50.5	
81 Tetrachloroethene	166	7.534	7.534	0.000	97	391077	50.0	56.5	
82 1,3-Dichloropropane	76	7.570	7.570	0.000	95	490803	50.0	48.7	
80 2-Hexanone	43	7.583	7.583	0.000	97	1211917	250.0	242.2	
83 Chlorodibromomethane	129	7.808	7.808	0.000	90	336731	50.0	52.0	
84 Ethylene Dibromide	107	7.948	7.948	0.000	98	294149	50.0	52.4	
87 Chlorobenzene	112	8.410	8.410	0.000	95	984003	50.0	53.1	
88 Ethylbenzene	91	8.483	8.483	0.000	98	1608078	50.0	50.1	
89 1,1,1,2-Tetrachloroethane	131	8.483	8.483	0.000	58	369406	50.0	52.1	
90 m-Xylene & p-Xylene	106	8.599	8.599	0.000	99	650981	50.0	52.7	
91 o-Xylene	106	9.031	9.031	0.000	96	646490	50.0	53.8	
92 Styrene	104	9.049	9.049	0.000	95	1063972	50.0	52.5	
95 Bromoform	173	9.304	9.304	0.000	96	222009	50.0	53.0	
94 Isopropylbenzene	105	9.402	9.402	0.000	96	1681748	50.0	50.5	
97 1,1,2,2-Tetrachloroethane	83	9.736	9.736	0.000	95	352399	50.0	47.3	
101 Bromobenzene	156	9.767	9.767	0.000	93	410791	50.0	49.0	
98 trans-1,4-Dichloro-2-butene	53	9.785	9.785	0.000	73	125478	50.0	45.9	
100 1,2,3-Trichloropropane	110	9.791	9.791	0.000	84	111976	50.0	46.8	
99 N-Propylbenzene	91	9.815	9.815	0.000	99	1864795	50.0	47.7	
103 2-Chlorotoluene	126	9.937	9.937	0.000	97	390394	50.0	50.6	
102 1,3,5-Trimethylbenzene	105	9.973	9.973	0.000	93	1427575	50.0	50.0	
105 4-Chlorotoluene	126	10.034	10.034	0.000	98	391730	50.0	49.9	
106 tert-Butylbenzene	134	10.296	10.296	0.000	92	315488	50.0	52.4	
107 1,2,4-Trimethylbenzene	105	10.345	10.345	0.000	94	1448578	50.0	50.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.497	10.497	0.000	94	1776398	50.0	51.4	
110 4-Isopropyltoluene	119	10.618	10.618	0.000	97	1562639	50.0	52.0	
111 1,3-Dichlorobenzene	146	10.643	10.643	0.000	98	793464	50.0	49.6	
113 1,4-Dichlorobenzene	146	10.722	10.722	0.000	95	791568	50.0	48.9	
115 n-Butylbenzene	91	10.989	10.989	0.000	98	1300581	50.0	49.5	
116 1,2-Dichlorobenzene	146	11.062	11.062	0.000	98	747836	50.0	49.1	
117 1,2-Dibromo-3-Chloropropane	75	11.732	11.732	0.000	86	68780	50.0	44.5	
119 1,2,4-Trichlorobenzene	180	12.395	12.395	0.000	94	542723	50.0	49.6	
120 Hexachlorobutadiene	225	12.504	12.504	0.000	97	295262	50.0	49.9	
121 Naphthalene	128	12.626	12.626	0.000	97	1227112	50.0	52.0	
122 1,2,3-Trichlorobenzene	180	12.845	12.845	0.000	96	500618	50.0	48.4	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00202	Amount Added: 25.00	Units: uL	
GAS CORP mix_00442	Amount Added: 25.00	Units: uL	
F 8260 IS/SS_00117	Amount Added: 1.00	Units: uL	Run Reagent

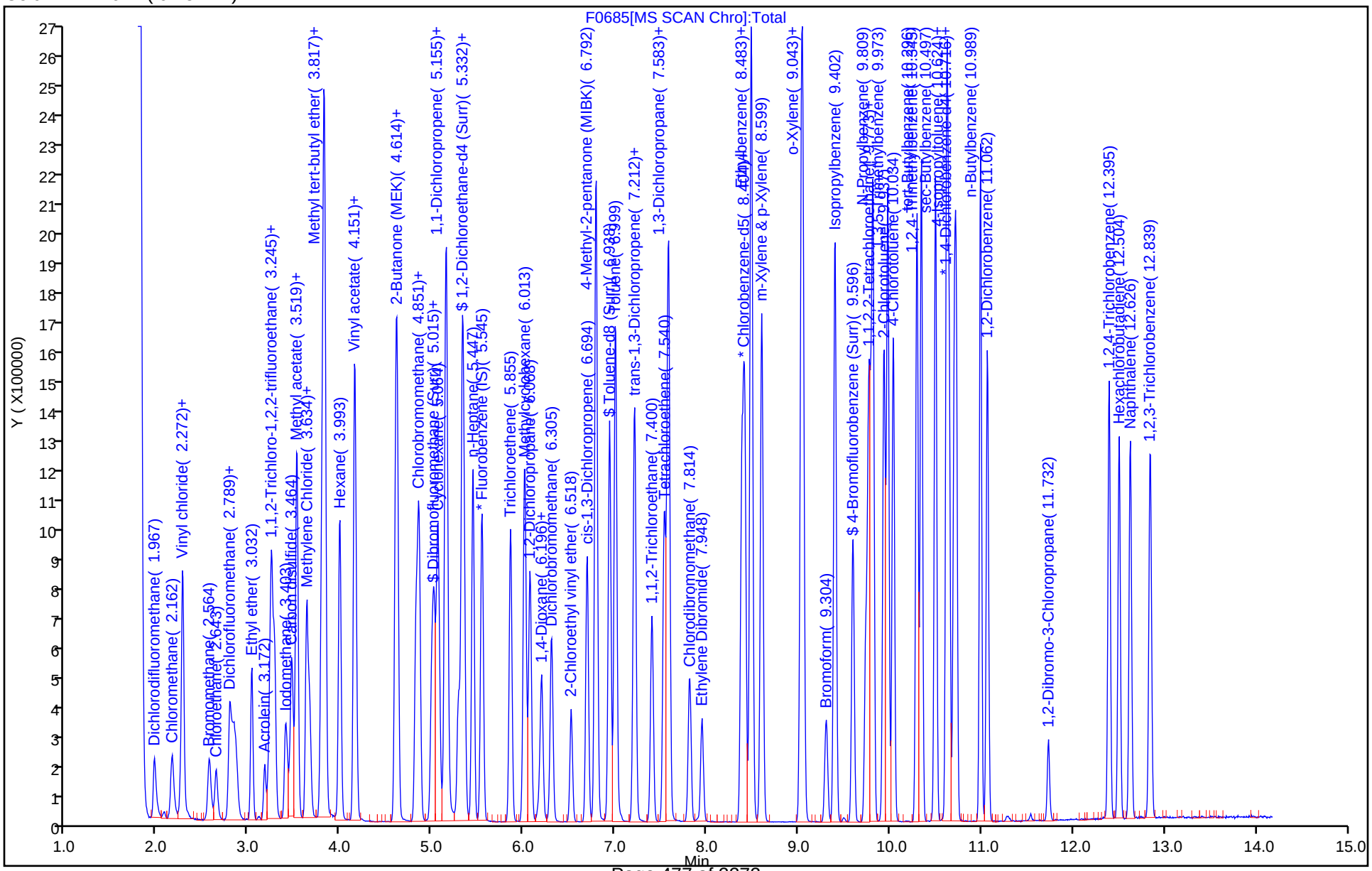
Report Date: 18-Feb-2021 10:30:44 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210218-96726.b\F0685.D

Injection Date:	18-Feb-2021 09:26:30	Instrument ID:	HP5973F	Operator ID:	WD
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: ICV 480-566434/26 Calibration Date: 01/18/2021 23:50

Instrument ID: HP5977L Calib Start Date: 01/18/2021 15:08

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 01/18/2021 18:02

Lab File ID: L5870.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.903	2.262	0.1000	29.7	25.0	18.9	50.0
Chloromethane	Ave	1.721	1.726	0.1000	25.1	25.0	0.3	30.0
Vinyl chloride	Ave	1.361	1.553	0.1000	28.5	25.0	14.2	30.0
Butadiene	Ave	1.450	1.581		27.3	25.0	9.0	30.0
Bromomethane	Ave	0.9720	1.045	0.1000	26.9	25.0	7.5	50.0
Chloroethane	Ave	0.7978	0.8569	0.1000	26.9	25.0	7.4	50.0
Dichlorofluoromethane	Ave	2.259	2.303		25.5	25.0	1.9	30.0
Trichlorofluoromethane	Ave	2.536	2.932	0.1000	28.9	25.0	15.6	30.0
Ethyl ether	Ave	1.153	1.234		26.8	25.0	7.1	30.0
Acrolein	Ave	0.0777	0.0764		123	125	-1.7	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.166	1.402	0.1000	30.1	25.0	20.2	30.0
1,1-Dichloroethene	Ave	1.161	1.328	0.1000	28.6	25.0	14.4	30.0
Acetone	Ave	0.5445	0.4826	0.1000	111	125	-11.4	50.0
Iodomethane	Ave	2.193	2.420		27.6	25.0	10.4	30.0
Carbon disulfide	Ave	3.795	4.317	0.1000	28.4	25.0	13.7	30.0
Allyl chloride	Ave	1.995	2.102		26.3	25.0	5.3	30.0
Methyl acetate	Ave	1.213	1.124	0.1000	46.4	50.0	-7.3	50.0
Methylene Chloride	Lin1		1.448	0.1000	25.7	25.0	2.8	30.0
2-Methyl-2-propanol	Ave	0.1609	0.1336		208	250	-17.0	50.0
Methyl tert-butyl ether	Ave	4.156	4.336	0.1000	26.1	25.0	4.3	30.0
trans-1,2-Dichloroethene	Ave	1.399	1.595	0.1000	28.5	25.0	14.0	30.0
Acrylonitrile	Ave	0.6234	0.6084		244	250	-2.4	30.0
Hexane	Ave	1.914	2.144		28.0	25.0	12.0	30.0
1,1-Dichloroethane	Ave	2.494	2.679	0.2000	26.9	25.0	7.4	30.0
Vinyl acetate	Ave	3.145	3.209		51.0	50.0	2.0	30.0
2,2-Dichloropropane	Ave	1.896	1.852		24.4	25.0	-2.3	30.0
2-Butanone (MEK)	Ave	0.8199	0.7749	0.1000	118	125	-5.5	30.0
cis-1,2-Dichloroethene	Ave	1.621	1.717	0.1000	26.5	25.0	5.9	30.0
Chlorobromomethane	Ave	0.8609	0.8968		26.0	25.0	4.2	30.0
Tetrahydrofuran	Ave	0.5016	0.4778		47.6	50.0	-4.7	30.0
Chloroform	Ave	2.929	2.968	0.2000	25.3	25.0	1.4	30.0
1,1,1-Trichloroethane	Ave	2.614	2.940	0.1000	28.1	25.0	12.5	30.0
Cyclohexane	Ave	2.402	2.724	0.1000	28.3	25.0	13.4	30.0
1,1-Dichloropropene	Ave	1.992	2.228		28.0	25.0	11.8	30.0
Carbon tetrachloride	Ave	2.453	2.808	0.1000	28.6	25.0	14.5	30.0
Isobutyl alcohol	Ave	0.0680	0.0654		601	625	-3.9	50.0
Benzene	Ave	5.615	5.941	0.5000	26.5	25.0	5.8	30.0
1,2-Dichloroethane	Ave	2.391	2.509	0.1000	26.2	25.0	4.9	30.0
n-Heptane	Ave	1.916	2.016		26.3	25.0	5.2	30.0
Trichloroethene	Ave	1.607	1.771	0.2000	27.5	25.0	10.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: ICV 480-566434/26 Calibration Date: 01/18/2021 23:50

Instrument ID: HP5977L Calib Start Date: 01/18/2021 15:08

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 01/18/2021 18:02

Lab File ID: L5870.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.288	2.741	0.1000	30.0	25.0	19.8	30.0
1,2-Dichloropropane	Ave	1.410	1.477	0.1000	26.2	25.0	4.7	30.0
1,4-Dioxane	Lin1		0.0023		397	500	-20.6	50.0
Dibromomethane	Ave	1.007	1.042	0.1000	25.9	25.0	3.5	30.0
Bromodichloromethane	Ave	2.154	2.291	0.2000	26.6	25.0	6.4	30.0
2-Chloroethyl vinyl ether	Ave	0.9846	1.032		26.2	25.0	4.8	30.0
cis-1,3-Dichloropropene	Ave	2.466	2.567	0.2000	26.0	25.0	4.1	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.3895	0.3808	0.1000	122	125	-2.2	30.0
Toluene	Ave	0.9122	0.9544	0.4000	26.2	25.0	4.6	30.0
Ethyl methacrylate	Ave	0.4421	0.4753		26.9	25.0	7.5	30.0
trans-1,3-Dichloropropene	Ave	0.5592	0.5744	0.1000	25.7	25.0	2.7	30.0
1,1,2-Trichloroethane	Ave	0.2601	0.2620	0.1000	25.2	25.0	0.7	30.0
Tetrachloroethene	Ave	0.4280	0.4624	0.2000	27.0	25.0	8.0	30.0
1,3-Dichloropropane	Ave	0.5455	0.5514		25.3	25.0	1.1	30.0
2-Hexanone	Ave	0.2896	0.2839	0.1000	123	125	-2.0	30.0
Dibromochloromethane	Ave	0.4174	0.4273	0.1000	25.6	25.0	2.4	30.0
1,2-Dibromoethane	Ave	0.3521	0.3604		25.6	25.0	2.3	30.0
Chlorobenzene	Ave	1.058	1.092	0.5000	25.8	25.0	3.2	30.0
Ethylbenzene	Ave	1.779	1.879	0.1000	26.4	25.0	5.6	30.0
1,1,1,2-Tetrachloroethane	Ave	0.4041	0.4294		26.6	25.0	6.3	30.0
m,p-Xylene	Ave	0.6999	0.7351	0.1000	26.3	25.0	5.0	30.0
o-Xylene	Ave	0.6698	0.7176	0.3000	26.8	25.0	7.1	30.0
Styrene	Ave	1.154	1.224	0.3000	26.5	25.0	6.1	30.0
Bromoform	Ave	0.3060	0.3306	0.1000	27.0	25.0	8.1	50.0
Isopropylbenzene	Ave	3.180	3.337	0.1000	26.2	25.0	4.9	30.0
1,1,2,2-Tetrachloroethane	Ave	0.8157	0.7737	0.3000	23.7	25.0	-5.1	30.0
Bromobenzene	Ave	0.8411	0.8439		25.1	25.0	0.3	30.0
N-Propylbenzene	Ave	3.679	3.811		25.9	25.0	3.6	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.2511		22.9	25.0	-8.4	50.0
1,2,3-Trichloropropane	Ave	0.2957	0.2863		24.2	25.0	-3.2	30.0
2-Chlorotoluene	Ave	0.7506	0.7754		25.8	25.0	3.3	30.0
1,3,5-Trimethylbenzene	Ave	2.754	2.866		26.0	25.0	4.1	30.0
4-Chlorotoluene	Ave	2.384	2.429		25.5	25.0	1.9	30.0
tert-Butylbenzene	Ave	0.5780	0.6181		26.7	25.0	6.9	30.0
1,2,4-Trimethylbenzene	Ave	2.828	2.943		26.0	25.0	4.1	30.0
sec-Butylbenzene	Ave	3.345	3.566		26.7	25.0	6.6	30.0
4-Isopropyltoluene	Ave	3.057	3.211		26.3	25.0	5.1	30.0
1,3-Dichlorobenzene	Ave	1.630	1.647	0.6000	25.3	25.0	1.0	30.0
1,4-Dichlorobenzene	Ave	1.683	1.679	0.5000	24.9	25.0	-0.2	30.0
n-Butylbenzene	Ave	2.623	2.718		25.9	25.0	3.6	30.0
1,2-Dichlorobenzene	Ave	1.549	1.581	0.4000	25.5	25.0	2.1	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: ICV 480-566434/26 Calibration Date: 01/18/2021 23:50

Instrument ID: HP5977L Calib Start Date: 01/18/2021 15:08

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 01/18/2021 18:02

Lab File ID: L5870.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1940	0.1837	0.0500	23.7	25.0	-5.3	50.0
1,2,4-Trichlorobenzene	Ave	1.194	1.184	0.2000	24.8	25.0	-0.8	30.0
Hexachlorobutadiene	Ave	0.5956	0.6205		26.0	25.0	4.2	30.0
Naphthalene	Ave	2.928	2.877		24.6	25.0	-1.8	30.0
1,2,3-Trichlorobenzene	Ave	1.111	1.108		24.9	25.0	-0.3	30.0
Dibromofluoromethane (Surr)	Ave	1.394	1.394		25.0	25.0	0.0	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.678	1.649		24.6	25.0	-1.7	30.0
Toluene-d8 (Surr)	Ave	1.187	1.157		24.4	25.0	-2.5	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4373	0.4353		24.9	25.0	-0.4	30.0

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5870.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 18-Jan-2021 23:50:39 ALS Bottle#: 0 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 480-0096150-026
Operator ID: LH Instrument ID: HP5977L
Sublist:

Method: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 19-Jan-2021 11:29:24 Calib Date: 18-Jan-2021 22:35:42
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5867.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1610

First Level Reviewer: HillL Date: 19-Jan-2021 11:24:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.485	6.485	0.000	99	122084	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.446	9.443	0.003	85	539469	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.736	11.736	0.000	95	316847	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.913	5.913	0.000	93	170199	25.0	25.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.228	6.228	0.000	96	201317	25.0	24.6	
$ 6 Toluene-d8 (Surr)	98	7.948	7.948	0.000	93	623905	25.0	24.4	
$ 7 4-Bromofluorobenzene (Surr)	174	10.652	10.652	0.000	98	234826	25.0	24.9	
10 Dichlorodifluoromethane	85	2.170	2.170	0.000	99	276174	25.0	29.7	
13 Chloromethane	50	2.437	2.434	0.003	98	210657	25.0	25.1	
14 Vinyl chloride	62	2.565	2.562	0.003	98	189636	25.0	28.5	
15 Butadiene	54	2.575	2.572	0.003	89	193043	25.0	27.3	
18 Bromomethane	94	2.967	2.958	0.009	95	127523	25.0	26.9	
19 Chloroethane	64	3.064	3.058	0.006	99	104613	25.0	26.9	
20 Dichlorofluoromethane	67	3.289	3.286	0.003	97	281180	25.0	25.5	
21 Trichlorofluoromethane	101	3.305	3.299	0.006	98	358009	25.0	28.9	
26 Ethyl ether	59	3.585	3.582	0.003	92	150706	25.0	26.8	
28 Acrolein	56	3.787	3.788	-0.001	98	46644	125.0	122.9	
29 112TCTFE	101	3.813	3.810	0.003	92	171120	25.0	30.1	
30 1,1-Dichloroethene	96	3.839	3.839	0.000	97	162188	25.0	28.6	
31 Acetone	43	3.932	3.932	0.000	100	294589	125.0	110.8	
33 Iodomethane	142	4.028	4.025	0.003	97	295446	25.0	27.6	
35 Carbon disulfide	76	4.083	4.083	0.000	100	527006	25.0	28.4	
37 3-Chloro-1-propene	41	4.199	4.199	0.000	90	256593	25.0	26.3	
38 Methyl acetate	43	4.212	4.209	0.003	98	274518	50.0	46.4	
39 Methylene Chloride	84	4.337	4.337	0.000	94	176757	25.0	25.7	
40 2-Methyl-2-propanol	59	4.430	4.431	-0.001	100	163093	250.0	207.6	
41 Methyl tert-butyl ether	73	4.514	4.514	0.000	96	529325	25.0	26.1	
42 trans-1,2-Dichloroethene	96	4.559	4.559	0.000	98	194687	25.0	28.5	
44 Acrylonitrile	53	4.597	4.598	-0.001	98	742757	250.0	244.0	
47 Hexane	57	4.720	4.717	0.003	91	261739	25.0	28.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
49 Vinyl acetate	43	4.958	4.958	0.000	97	783578	50.0	51.0	
50 1,1-Dichloroethane	63	4.958	4.958	0.000	62	327077	25.0	26.9	
56 2,2-Dichloropropane	77	5.459	5.456	0.003	90	226155	25.0	24.4	
57 2-Butanone (MEK)	43	5.482	5.482	0.000	100	473022	125.0	118.1	
58 cis-1,2-Dichloroethene	96	5.482	5.482	0.000	88	209676	25.0	26.5	
60 Chlorobromomethane	128	5.716	5.714	0.002	91	109489	25.0	26.0	
61 Tetrahydrofuran	42	5.729	5.730	-0.001	92	116666	50.0	47.6	
62 Chloroform	83	5.758	5.759	-0.001	92	362399	25.0	25.3	
64 1,1,1-Trichloroethane	97	5.903	5.903	0.000	97	358945	25.0	28.1	
65 Cyclohexane	56	5.922	5.923	-0.001	90	332594	25.0	28.3	
66 Carbon tetrachloride	117	6.038	6.038	0.000	96	342820	25.0	28.6	
67 1,1-Dichloropropene	75	6.038	6.038	0.000	92	271981	25.0	28.0	
69 Isobutyl alcohol	43	6.138	6.135	0.003	95	199623	625.0	600.8	
70 Benzene	78	6.247	6.244	0.003	97	725311	25.0	26.5	
72 1,2-Dichloroethane	62	6.298	6.299	-0.001	98	306285	25.0	26.2	
73 n-Heptane	43	6.340	6.337	0.003	91	246085	25.0	26.3	
75 Trichloroethene	95	6.813	6.813	0.000	97	216236	25.0	27.5	
76 Methylcyclohexane	83	6.945	6.945	0.000	91	334634	25.0	30.0	
77 1,2-Dichloropropane	63	7.057	7.058	-0.001	91	180310	25.0	26.2	
81 1,4-Dioxane	88	7.163	7.164	-0.001	97	24997	500.0	397.1	M
82 Dibromomethane	93	7.202	7.199	0.003	91	127167	25.0	25.9	
83 Dichlorobromomethane	83	7.318	7.318	0.000	98	279659	25.0	26.6	
84 2-Chloroethyl vinyl ether	63	7.536	7.540	-0.004	94	125992	25.0	26.2	
85 cis-1,3-Dichloropropene	75	7.716	7.717	-0.001	93	313329	25.0	26.0	
87 4-Methyl-2-pentanone (MIBK)	43	7.819	7.820	-0.001	96	1027130	125.0	122.2	
88 Toluene	92	8.015	8.016	-0.001	98	514851	25.0	26.2	
90 Ethyl methacrylate	69	8.244	8.244	0.000	86	256392	25.0	26.9	
91 trans-1,3-Dichloropropene	75	8.257	8.257	0.000	98	309884	25.0	25.7	
93 1,1,2-Trichloroethane	83	8.462	8.463	-0.001	93	141346	25.0	25.2	
94 Tetrachloroethene	166	8.552	8.553	-0.001	97	249433	25.0	27.0	
95 1,3-Dichloropropane	76	8.636	8.636	0.000	92	297453	25.0	25.3	
96 2-Hexanone	43	8.642	8.643	-0.001	96	765714	125.0	122.5	
98 Chlorodibromomethane	129	8.884	8.884	0.000	90	230523	25.0	25.6	
101 Ethylene Dibromide	107	9.022	9.022	0.000	97	194429	25.0	25.6	
103 Chlorobenzene	112	9.475	9.475	0.000	96	588939	25.0	25.8	
104 Ethylbenzene	91	9.536	9.533	0.003	99	1013785	25.0	26.4	
105 1,1,1,2-Tetrachloroethane	131	9.552	9.556	-0.004	93	231661	25.0	26.6	
106 m-Xylene & p-Xylene	106	9.649	9.649	0.000	99	396562	25.0	26.3	
107 o-Xylene	106	10.089	10.090	-0.001	97	387101	25.0	26.8	
109 Styrene	104	10.112	10.112	0.000	94	660491	25.0	26.5	
110 Bromoform	173	10.392	10.389	0.003	97	178352	25.0	27.0	
111 Isopropylbenzene	105	10.440	10.437	0.003	96	1057246	25.0	26.2	
112 1,1,2,2-Tetrachloroethane	83	10.813	10.813	0.000	97	245152	25.0	23.7	
113 Bromobenzene	156	10.822	10.823	-0.001	93	267373	25.0	25.1	
114 N-Propylbenzene	91	10.845	10.845	0.000	99	1207611	25.0	25.9	
115 trans-1,4-Dichloro-2-butene	53	10.851	10.855	-0.004	77	79569	25.0	22.9	
116 1,2,3-Trichloropropane	110	10.867	10.868	-0.001	83	90722	25.0	24.2	
117 2-Chlorotoluene	126	10.977	10.977	0.000	96	245680	25.0	25.8	
118 1,3,5-Trimethylbenzene	105	10.999	11.000	-0.001	94	908188	25.0	26.0	
119 4-Chlorotoluene	91	11.080	11.077	0.003	98	769470	25.0	25.5	
120 tert-Butylbenzene	134	11.314	11.315	-0.001	92	195832	25.0	26.7	
121 1,2,4-Trimethylbenzene	105	11.366	11.366	0.000	97	932525	25.0	26.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	11.514	11.514	0.000	94	1129729	25.0	26.7	
123 4-Isopropyltoluene	119	11.633	11.630	0.003	97	1017395	25.0	26.3	
124 1,3-Dichlorobenzene	146	11.681	11.678	0.003	98	521712	25.0	25.3	
126 1,4-Dichlorobenzene	146	11.758	11.758	0.000	95	531973	25.0	24.9	
127 n-Butylbenzene	91	11.996	11.996	0.000	98	861076	25.0	25.9	
128 1,2-Dichlorobenzene	146	12.099	12.099	0.000	97	500987	25.0	25.5	
129 1,2-Dibromo-3-Chloropropane	75	12.774	12.774	0.000	88	58210	25.0	23.7	
130 1,2,4-Trichlorobenzene	180	13.443	13.443	0.000	95	375046	25.0	24.8	
131 Hexachlorobutadiene	225	13.533	13.530	0.003	97	196615	25.0	26.0	
132 Naphthalene	128	13.697	13.697	0.000	97	911590	25.0	24.6	
133 1,2,3-Trichlorobenzene	180	13.922	13.922	0.000	96	351137	25.0	24.9	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

SS 8260 CORP_00088	Amount Added:	12.50	Units: uL	
SS GAS CORP_00386	Amount Added:	12.50	Units: uL	
L_8260_IS_00023	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_SURR_00022	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 19-Jan-2021 11:30:50 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5870.D

Injection Date: 18-Jan-2021 23:50:39 Instrument ID: HP5977L

Lims ID: ICV

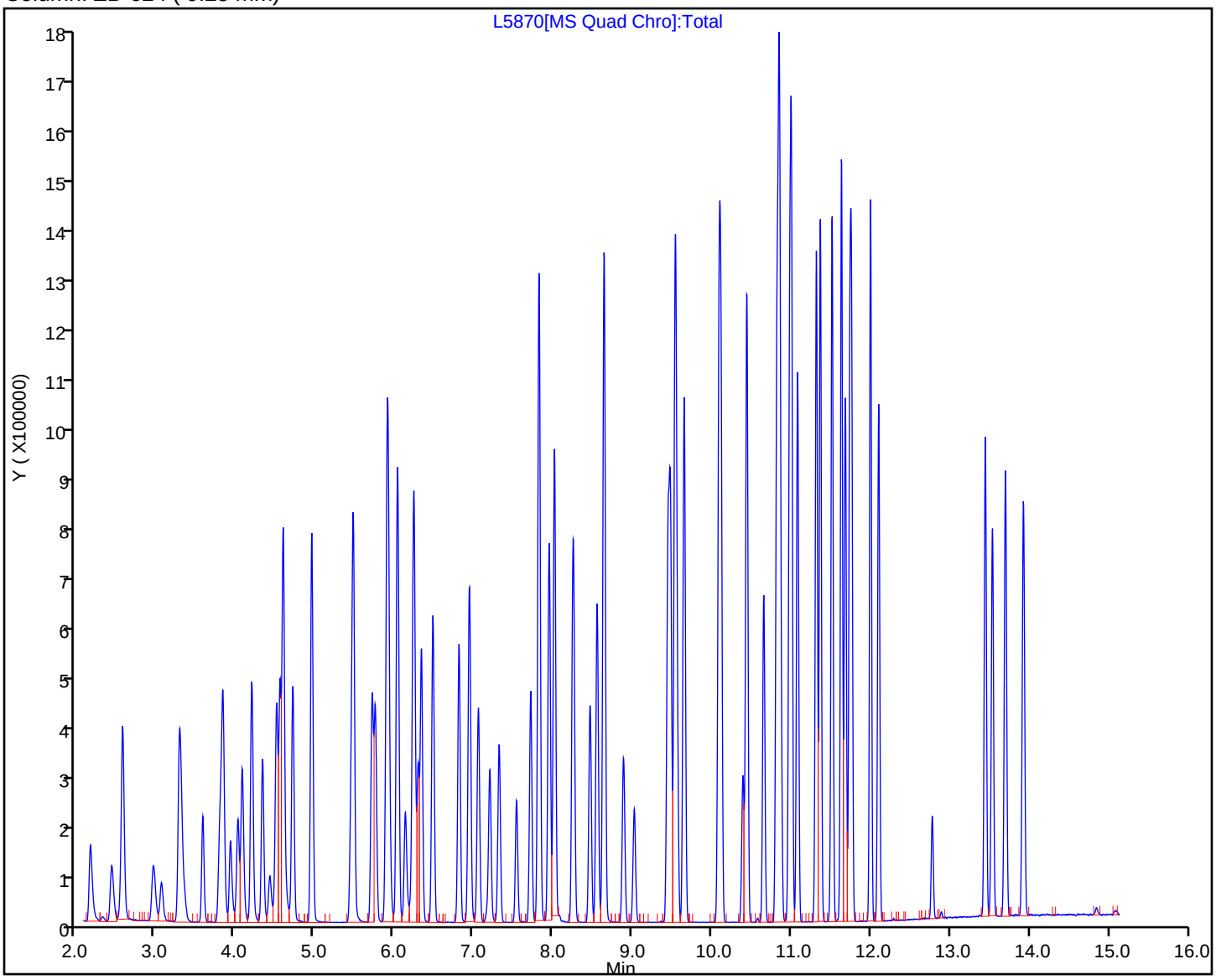
Client ID:

Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 26

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Eurofins TestAmerica, Buffalo

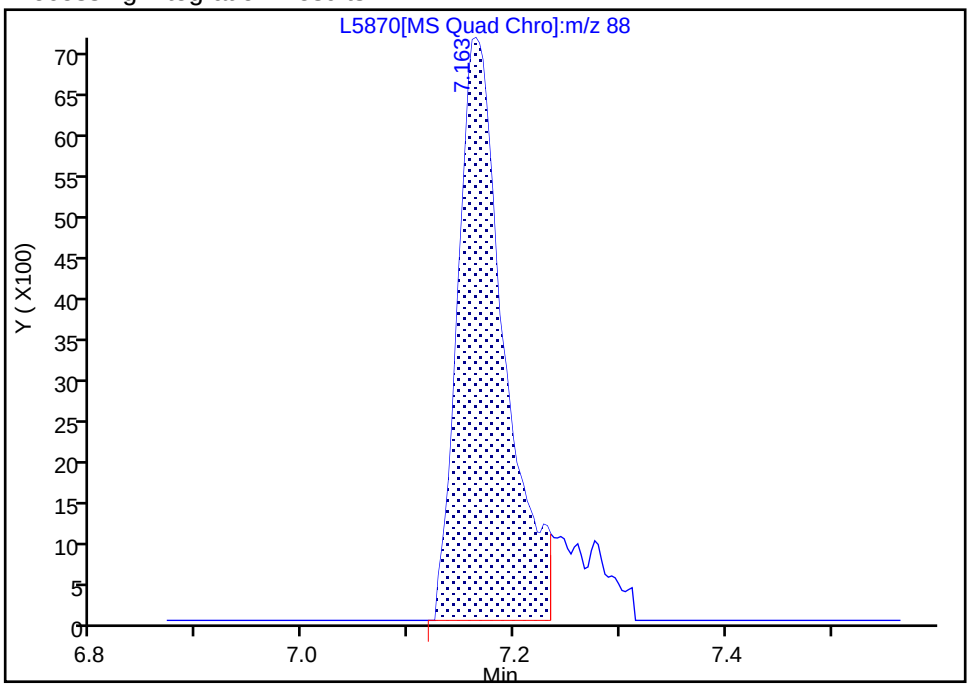
Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5870.D				
Injection Date:	18-Jan-2021 23:50:39	Instrument ID:	HP5977L		
Lims ID:	ICV				
Client ID:					
Operator ID:	LH	ALS Bottle#:	0	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

81 1,4-Dioxane, CAS: 123-91-1

Signal: 1

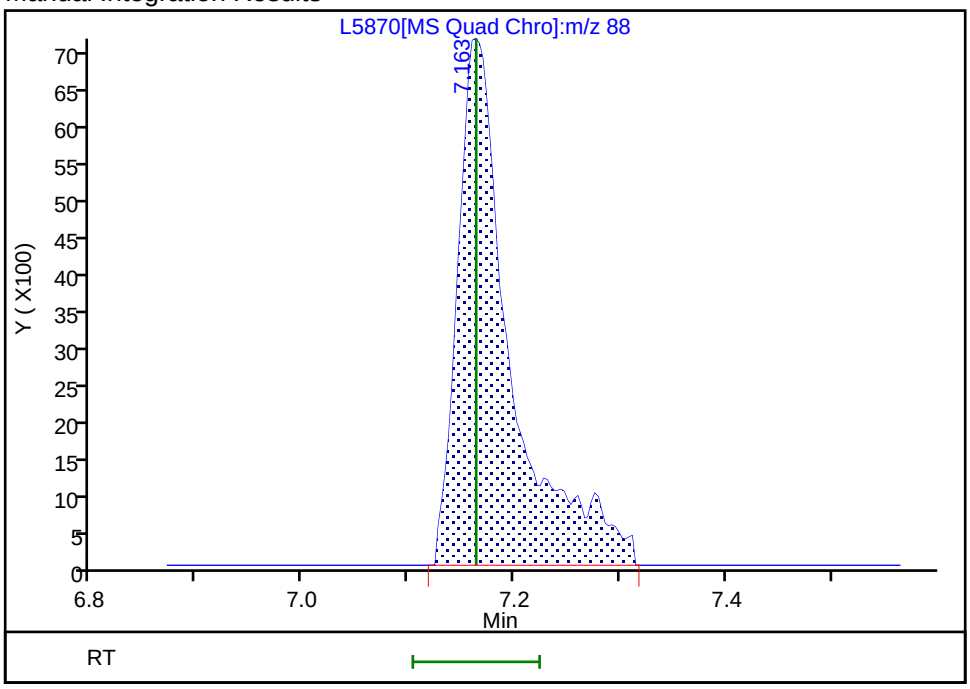
Processing Integration Results

RT: 7.16
Area: 21666
Amount: 346.2139
Amount Units: ug/L



Manual Integration Results

RT: 7.16
Area: 24997
Amount: 397.1419
Amount Units: ug/L



Reviewer: HillL, 19-Jan-2021 11:24:17
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCVIS 480-569749/3 Calibration Date: 02/17/2021 10:39

Instrument ID: HP5977L Calib Start Date: 01/18/2021 15:08

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 01/18/2021 18:02

Lab File ID: L6300.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.903	1.523	0.1000	20.0	25.0	-20.0	50.0
Chloromethane	Ave	1.721	1.568	0.1000	22.8	25.0	-8.9	20.0
Vinyl chloride	Ave	1.361	1.432	0.1000	26.3	25.0	5.3	20.0
Butadiene	Ave	1.450	1.440		24.8	25.0	-0.7	20.0
Bromomethane	Ave	0.9720	0.9524	0.1000	24.5	25.0	-2.0	50.0
Chloroethane	Ave	0.7978	0.8213	0.1000	25.7	25.0	2.9	50.0
Dichlorofluoromethane	Ave	2.259	2.079		23.0	25.0	-8.0	20.0
Trichlorofluoromethane	Ave	2.536	2.271	0.1000	22.4	25.0	-10.4	20.0
Ethyl ether	Ave	1.153	1.119		24.3	25.0	-2.9	20.0
Acrolein	Ave	0.0777	0.1195		192	125	53.8*	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.166	1.165	0.1000	25.0	25.0	-0.1	20.0
1,1-Dichloroethene	Ave	1.161	1.171	0.1000	25.2	25.0	0.9	20.0
Acetone	Ave	0.5445	0.4085	0.1000	93.8	125	-25.0	50.0
Iodomethane	Ave	2.193	2.165		24.7	25.0	-1.3	20.0
Carbon disulfide	Ave	3.795	4.058	0.1000	26.7	25.0	6.9	20.0
Allyl chloride	Ave	1.995	2.019		25.3	25.0	1.2	20.0
Methyl acetate	Ave	1.213	1.002	0.1000	41.3	50.0	-17.4	50.0
Methylene Chloride	Lin1		1.371	0.1000	24.3	25.0	-2.7	20.0
2-Methyl-2-propanol	Ave	0.1609	0.1708		265	250	6.1	50.0
Methyl tert-butyl ether	Ave	4.156	3.975	0.1000	23.9	25.0	-4.3	20.0
trans-1,2-Dichloroethene	Ave	1.399	1.466	0.1000	26.2	25.0	4.8	20.0
Acrylonitrile	Ave	0.6234	0.5381		216	250	-13.7	20.0
Hexane	Ave	1.914	1.918		25.1	25.0	0.2	20.0
1,1-Dichloroethane	Ave	2.494	2.476	0.2000	24.8	25.0	-0.7	20.0
Vinyl acetate	Ave	3.145	2.962		47.1	50.0	-5.8	20.0
2,2-Dichloropropane	Ave	1.896	1.992		26.3	25.0	5.1	20.0
2-Butanone (MEK)	Ave	0.8199	0.6639	0.1000	101	125	-19.0	20.0
cis-1,2-Dichloroethene	Ave	1.621	1.581	0.1000	24.4	25.0	-2.5	20.0
Chlorobromomethane	Ave	0.8609	0.7963		23.1	25.0	-7.5	20.0
Tetrahydrofuran	Ave	0.5016	0.4145		41.3	50.0	-17.4	20.0
Chloroform	Ave	2.929	2.641	0.2000	22.5	25.0	-9.8	20.0
1,1,1-Trichloroethane	Ave	2.614	2.523	0.1000	24.1	25.0	-3.5	20.0
Cyclohexane	Ave	2.402	2.322	0.1000	24.2	25.0	-3.4	20.0
1,1-Dichloropropene	Ave	1.992	1.993		25.0	25.0	0.0	20.0
Carbon tetrachloride	Ave	2.453	2.336	0.1000	23.8	25.0	-4.8	20.0
Isobutyl alcohol	Ave	0.0680	0.0666		612	625	-2.1	50.0
Benzene	Ave	5.615	5.520	0.5000	24.6	25.0	-1.7	20.0
1,2-Dichloroethane	Ave	2.391	2.130	0.1000	22.3	25.0	-10.9	20.0
n-Heptane	Ave	1.916	1.816		23.7	25.0	-5.2	20.0
Trichloroethene	Ave	1.607	1.583	0.2000	24.6	25.0	-1.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCVIS 480-569749/3 Calibration Date: 02/17/2021 10:39

Instrument ID: HP5977L Calib Start Date: 01/18/2021 15:08

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 01/18/2021 18:02

Lab File ID: L6300.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.288	2.304	0.1000	25.2	25.0	0.7	20.0
1,2-Dichloropropane	Ave	1.410	1.388	0.1000	24.6	25.0	-1.6	20.0
1,4-Dioxane	Lin1		0.0032		543	500	8.5	50.0
Dibromomethane	Ave	1.007	0.9402	0.1000	23.4	25.0	-6.6	20.0
Bromodichloromethane	Ave	2.154	2.118	0.2000	24.6	25.0	-1.7	20.0
2-Chloroethyl vinyl ether	Ave	0.9846	0.9426		23.9	25.0	-4.3	20.0
cis-1,3-Dichloropropene	Ave	2.466	2.482	0.2000	25.2	25.0	0.7	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.3895	0.3423	0.1000	110	125	-12.1	20.0
Toluene	Ave	0.9122	0.9104	0.4000	25.0	25.0	-0.2	20.0
Ethyl methacrylate	Ave	0.4421	0.4388		24.8	25.0	-0.7	20.0
trans-1,3-Dichloropropene	Ave	0.5592	0.5622	0.1000	25.1	25.0	0.5	20.0
1,1,2-Trichloroethane	Ave	0.2601	0.2548	0.1000	24.5	25.0	-2.0	20.0
Tetrachloroethene	Ave	0.4280	0.4074	0.2000	23.8	25.0	-4.8	20.0
1,3-Dichloropropane	Ave	0.5455	0.5278		24.2	25.0	-3.3	20.0
2-Hexanone	Ave	0.2896	0.2539	0.1000	110	125	-12.3	20.0
Dibromochloromethane	Ave	0.4174	0.3989	0.1000	23.9	25.0	-4.4	20.0
1,2-Dibromoethane	Ave	0.3521	0.3325		23.6	25.0	-5.6	20.0
Chlorobenzene	Ave	1.058	1.020	0.5000	24.1	25.0	-3.6	20.0
Ethylbenzene	Ave	1.779	1.760	0.1000	24.7	25.0	-1.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4041	0.3943		24.4	25.0	-2.4	20.0
m,p-Xylene	Ave	0.6999	0.6867	0.1000	24.5	25.0	-1.9	20.0
o-Xylene	Ave	0.6698	0.6679	0.3000	24.9	25.0	-0.3	20.0
Styrene	Ave	1.154	1.154	0.3000	25.0	25.0	0.0	20.0
Bromoform	Ave	0.3060	0.2923	0.1000	23.9	25.0	-4.5	50.0
Isopropylbenzene	Ave	3.180	3.380	0.1000	26.6	25.0	6.3	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8157	0.7837	0.3000	24.0	25.0	-3.9	20.0
Bromobenzene	Ave	0.8411	0.8383		24.9	25.0	-0.3	20.0
N-Propylbenzene	Ave	3.679	3.954		26.9	25.0	7.5	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.2228		20.4	25.0	-18.4	50.0
1,2,3-Trichloropropane	Ave	0.2957	0.2753		23.3	25.0	-6.9	20.0
2-Chlorotoluene	Ave	0.7506	0.7769		25.9	25.0	3.5	20.0
1,3,5-Trimethylbenzene	Ave	2.754	2.897		26.3	25.0	5.2	20.0
4-Chlorotoluene	Ave	2.384	2.463		25.8	25.0	3.3	20.0
tert-Butylbenzene	Ave	0.5780	0.6156		26.6	25.0	6.5	20.0
1,2,4-Trimethylbenzene	Ave	2.828	2.972		26.3	25.0	5.1	20.0
sec-Butylbenzene	Ave	3.345	3.560		26.6	25.0	6.4	20.0
4-Isopropyltoluene	Ave	3.057	3.240		26.5	25.0	6.0	20.0
1,3-Dichlorobenzene	Ave	1.630	1.640	0.6000	25.2	25.0	0.7	20.0
1,4-Dichlorobenzene	Ave	1.683	1.634	0.5000	24.3	25.0	-2.9	20.0
n-Butylbenzene	Ave	2.623	2.822		26.9	25.0	7.6	20.0
1,2-Dichlorobenzene	Ave	1.549	1.535	0.4000	24.8	25.0	-0.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCVIS 480-569749/3 Calibration Date: 02/17/2021 10:39

Instrument ID: HP5977L Calib Start Date: 01/18/2021 15:08

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 01/18/2021 18:02

Lab File ID: L6300.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1940	0.1796	0.0500	23.1	25.0	-7.4	50.0
1,2,4-Trichlorobenzene	Ave	1.194	1.187	0.2000	24.9	25.0	-0.6	20.0
Hexachlorobutadiene	Ave	0.5956	0.6143		25.8	25.0	3.1	20.0
Naphthalene	Ave	2.928	2.731		23.3	25.0	-6.7	20.0
1,2,3-Trichlorobenzene	Ave	1.111	1.071		24.1	25.0	-3.6	20.0
Dibromofluoromethane (Surr)	Ave	1.394	1.335		23.9	25.0	-4.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.678	1.535		22.9	25.0	-8.5	20.0
Toluene-d8 (Surr)	Ave	1.187	1.225		25.8	25.0	3.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4373	0.4136		23.6	25.0	-5.4	20.0

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210217-96706.b\L6300.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 17-Feb-2021 10:39:55 ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0096706-003
Operator ID: OI Instrument ID: HP5977L
Sublist: chrom-L-8260*sub1

Method: \\chromfs\Buffalo\ChromData\HP5977L\20210217-96706.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 17-Feb-2021 13:02:55 Calib Date: 18-Jan-2021 22:35:42
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5867.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1632

First Level Reviewer: izquierdoo Date: 17-Feb-2021 13:02:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.482	6.482	0.000	99	139687	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.443	9.443	0.000	86	587878	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.736	11.736	0.000	95	315961	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.910	5.910	0.000	93	186458	25.0	23.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.225	6.225	0.000	97	214437	25.0	22.9	
$ 6 Toluene-d8 (Surr)	98	7.945	7.945	0.000	93	719913	25.0	25.8	
$ 7 4-Bromofluorobenzene (Surr)	174	10.652	10.652	0.000	99	243149	25.0	23.6	
10 Dichlorodifluoromethane	85	2.170	2.170	0.000	99	212790	25.0	20.0	
13 Chloromethane	50	2.434	2.434	0.000	99	219029	25.0	22.8	
14 Vinyl chloride	62	2.559	2.559	0.000	98	200085	25.0	26.3	
15 Butadiene	54	2.575	2.575	0.000	89	201138	25.0	24.8	
18 Bromomethane	94	2.958	2.958	0.000	92	133042	25.0	24.5	
19 Chloroethane	64	3.054	3.054	0.000	99	114723	25.0	25.7	
20 Dichlorofluoromethane	67	3.283	3.283	0.000	97	290386	25.0	23.0	
21 Trichlorofluoromethane	101	3.299	3.299	0.000	99	317258	25.0	22.4	
26 Ethyl ether	59	3.585	3.585	0.000	91	156343	25.0	24.3	
28 Acrolein	56	3.788	3.788	0.000	100	83481	125.0	192.3	
29 112TCTFE	101	3.807	3.807	0.000	91	162679	25.0	25.0	
30 1,1-Dichloroethene	96	3.836	3.836	0.000	98	163624	25.0	25.2	
31 Acetone	43	3.932	3.932	0.000	100	285282	125.0	93.8	
33 Iodomethane	142	4.026	4.026	0.000	98	302388	25.0	24.7	
35 Carbon disulfide	76	4.080	4.080	0.000	99	566858	25.0	26.7	
37 3-Chloro-1-propene	41	4.196	4.196	0.000	92	282000	25.0	25.3	
38 Methyl acetate	43	4.209	4.209	0.000	97	279803	50.0	41.3	
39 Methylene Chloride	84	4.334	4.334	0.000	93	191493	25.0	24.3	
40 2-Methyl-2-propanol	59	4.427	4.427	0.000	100	238539	250.0	265.3	
41 Methyl tert-butyl ether	73	4.514	4.514	0.000	95	555303	25.0	23.9	
42 trans-1,2-Dichloroethene	96	4.556	4.556	0.000	99	204847	25.0	26.2	
44 Acrylonitrile	53	4.595	4.595	0.000	98	751638	250.0	215.8	
47 Hexane	57	4.717	4.717	0.000	90	267961	25.0	25.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
49 Vinyl acetate	43	4.955	4.955	0.000	97	827580	50.0	47.1	
50 1,1-Dichloroethane	63	4.955	4.955	0.000	93	345908	25.0	24.8	
56 2,2-Dichloropropane	77	5.456	5.456	0.000	89	278250	25.0	26.3	
57 2-Butanone (MEK)	43	5.479	5.479	0.000	100	463717	125.0	101.2	
58 cis-1,2-Dichloroethene	96	5.479	5.479	0.000	85	220796	25.0	24.4	
60 Chlorobromomethane	128	5.714	5.714	0.000	92	111226	25.0	23.1	
61 Tetrahydrofuran	42	5.726	5.726	0.000	87	115790	50.0	41.3	
62 Chloroform	83	5.759	5.759	0.000	92	368972	25.0	22.5	
64 1,1,1-Trichloroethane	97	5.900	5.900	0.000	97	352467	25.0	24.1	
65 Cyclohexane	56	5.919	5.919	0.000	90	324290	25.0	24.2	
67 1,1-Dichloropropene	75	6.035	6.035	0.000	94	278431	25.0	25.0	
66 Carbon tetrachloride	117	6.038	6.038	0.000	97	326296	25.0	23.8	
69 Isobutyl alcohol	43	6.135	6.135	0.000	94	232582	625.0	611.8	
70 Benzene	78	6.244	6.244	0.000	98	771053	25.0	24.6	
72 1,2-Dichloroethane	62	6.296	6.296	0.000	97	297498	25.0	22.3	
73 n-Heptane	43	6.337	6.337	0.000	90	253717	25.0	23.7	
75 Trichloroethene	95	6.810	6.810	0.000	98	221083	25.0	24.6	
76 Methylcyclohexane	83	6.942	6.942	0.000	91	321864	25.0	25.2	
77 1,2-Dichloropropane	63	7.054	7.054	0.000	93	193872	25.0	24.6	
81 1,4-Dioxane	88	7.164	7.164	0.000	97	37603	500.0	542.5	
82 Dibromomethane	93	7.199	7.199	0.000	94	131334	25.0	23.4	
83 Dichlorobromomethane	83	7.318	7.318	0.000	99	295853	25.0	24.6	
84 2-Chloroethyl vinyl ether	63	7.533	7.533	0.000	93	131665	25.0	23.9	
85 cis-1,3-Dichloropropene	75	7.714	7.714	0.000	96	346685	25.0	25.2	
87 4-Methyl-2-pentanone (MIBK)	43	7.820	7.820	0.000	95	1006037	125.0	109.9	
88 Toluene	92	8.013	8.013	0.000	98	535197	25.0	25.0	
90 Ethyl methacrylate	69	8.241	8.241	0.000	85	257976	25.0	24.8	
91 trans-1,3-Dichloropropene	75	8.257	8.257	0.000	97	330515	25.0	25.1	
93 1,1,2-Trichloroethane	83	8.463	8.463	0.000	92	149775	25.0	24.5	
94 Tetrachloroethene	166	8.550	8.550	0.000	97	239494	25.0	23.8	
95 1,3-Dichloropropane	76	8.633	8.633	0.000	93	310268	25.0	24.2	
96 2-Hexanone	43	8.640	8.640	0.000	94	746291	125.0	109.6	
98 Chlorodibromomethane	129	8.884	8.884	0.000	90	234504	25.0	23.9	
101 Ethylene Dibromide	107	9.019	9.019	0.000	99	195483	25.0	23.6	
103 Chlorobenzene	112	9.476	9.476	0.000	95	599406	25.0	24.1	
104 Ethylbenzene	91	9.533	9.533	0.000	98	1034763	25.0	24.7	
105 1,1,1,2-Tetrachloroethane	131	9.553	9.553	0.000	95	231775	25.0	24.4	
106 m-Xylene & p-Xylene	106	9.646	9.646	0.000	99	403696	25.0	24.5	
107 o-Xylene	106	10.086	10.086	0.000	97	392666	25.0	24.9	
109 Styrene	104	10.109	10.109	0.000	94	678314	25.0	25.0	
110 Bromoform	173	10.389	10.389	0.000	97	171824	25.0	23.9	
111 Isopropylbenzene	105	10.437	10.437	0.000	95	1067897	25.0	26.6	
112 1,1,2,2-Tetrachloroethane	83	10.810	10.810	0.000	96	247629	25.0	24.0	
113 Bromobenzene	156	10.820	10.820	0.000	95	264859	25.0	24.9	
114 N-Propylbenzene	91	10.842	10.842	0.000	99	1249425	25.0	26.9	
115 trans-1,4-Dichloro-2-butene	53	10.852	10.852	0.000	75	70391	25.0	20.4	
116 1,2,3-Trichloropropane	110	10.868	10.868	0.000	82	86979	25.0	23.3	
117 2-Chlorotoluene	126	10.977	10.977	0.000	96	245470	25.0	25.9	
118 1,3,5-Trimethylbenzene	105	11.000	11.000	0.000	94	915461	25.0	26.3	
119 4-Chlorotoluene	91	11.077	11.077	0.000	98	778265	25.0	25.8	
120 tert-Butylbenzene	134	11.315	11.315	0.000	92	194514	25.0	26.6	
121 1,2,4-Trimethylbenzene	105	11.363	11.363	0.000	97	939153	25.0	26.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
122 sec-Butylbenzene	105	11.511	11.511	0.000	94	1124771	25.0	26.6	
123 4-Isopropyltoluene	119	11.630	11.630	0.000	97	1023639	25.0	26.5	
124 1,3-Dichlorobenzene	146	11.678	11.678	0.000	98	518262	25.0	25.2	
126 1,4-Dichlorobenzene	146	11.755	11.755	0.000	95	516366	25.0	24.3	
127 n-Butylbenzene	91	11.996	11.996	0.000	98	891489	25.0	26.9	
128 1,2-Dichlorobenzene	146	12.099	12.099	0.000	97	484877	25.0	24.8	
129 1,2-Dibromo-3-Chloropropane	75	12.775	12.775	0.000	87	56739	25.0	23.1	
130 1,2,4-Trichlorobenzene	180	13.440	13.440	0.000	95	374931	25.0	24.9	
131 Hexachlorobutadiene	225	13.533	13.533	0.000	97	194088	25.0	25.8	
132 Naphthalene	128	13.694	13.694	0.000	97	862980	25.0	23.3	
133 1,2,3-Trichlorobenzene	180	13.919	13.919	0.000	96	338402	25.0	24.1	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00202	Amount Added: 12.50	Units: uL	
GAS CORP mix_00442	Amount Added: 12.50	Units: uL	
L_8260_SURR_00023	Amount Added: 2.00	Units: uL	Run Reagent
L_8260_IS_00024	Amount Added: 2.00	Units: uL	Run Reagent

Report Date: 17-Feb-2021 13:02:56 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210217-96706.b\L6300.D

Injection Date: 17-Feb-2021 10:39:55 Instrument ID: HP5977L

Lims ID: CCVIS

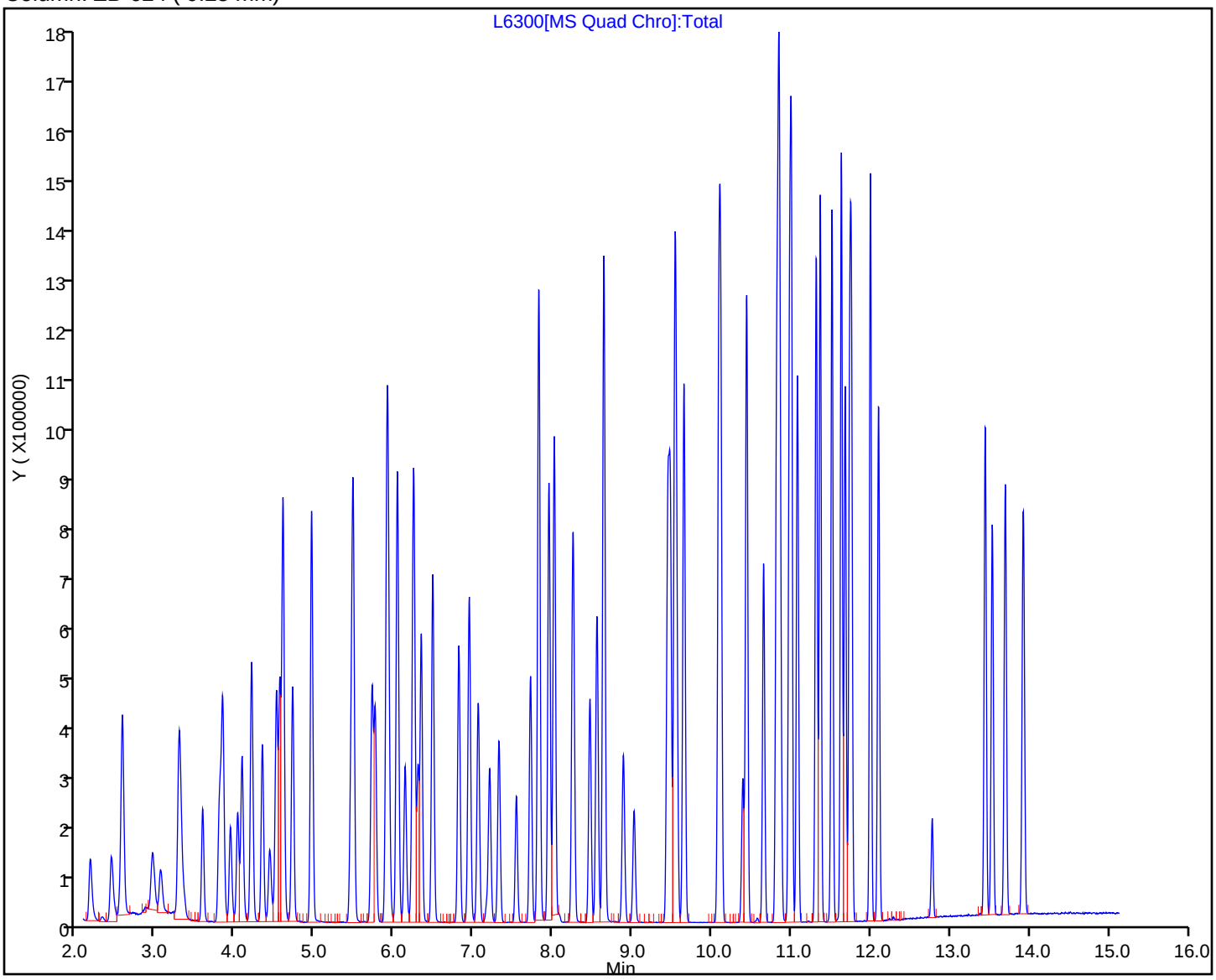
Client ID:

Operator ID: OI ALS Bottle#: 0 Worklist Smp#: 3

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0407.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	04-Feb-2021 12:02:30	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	480-0096467-002				
Operator ID:	WD	Instrument ID:	HP5973F		
Method:	\\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F-8260 SOIL.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	04-Feb-2021 12:06:05	Calib Date:	30-Nov-2020 07:23:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\HP5973F\20201129-95315.b\F9265.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1639				
First Level Reviewer: dahnw		Date:	04-Feb-2021 12:06:05		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
$ 61 BFB	95	5.728	5.728	0.000	0	108320	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

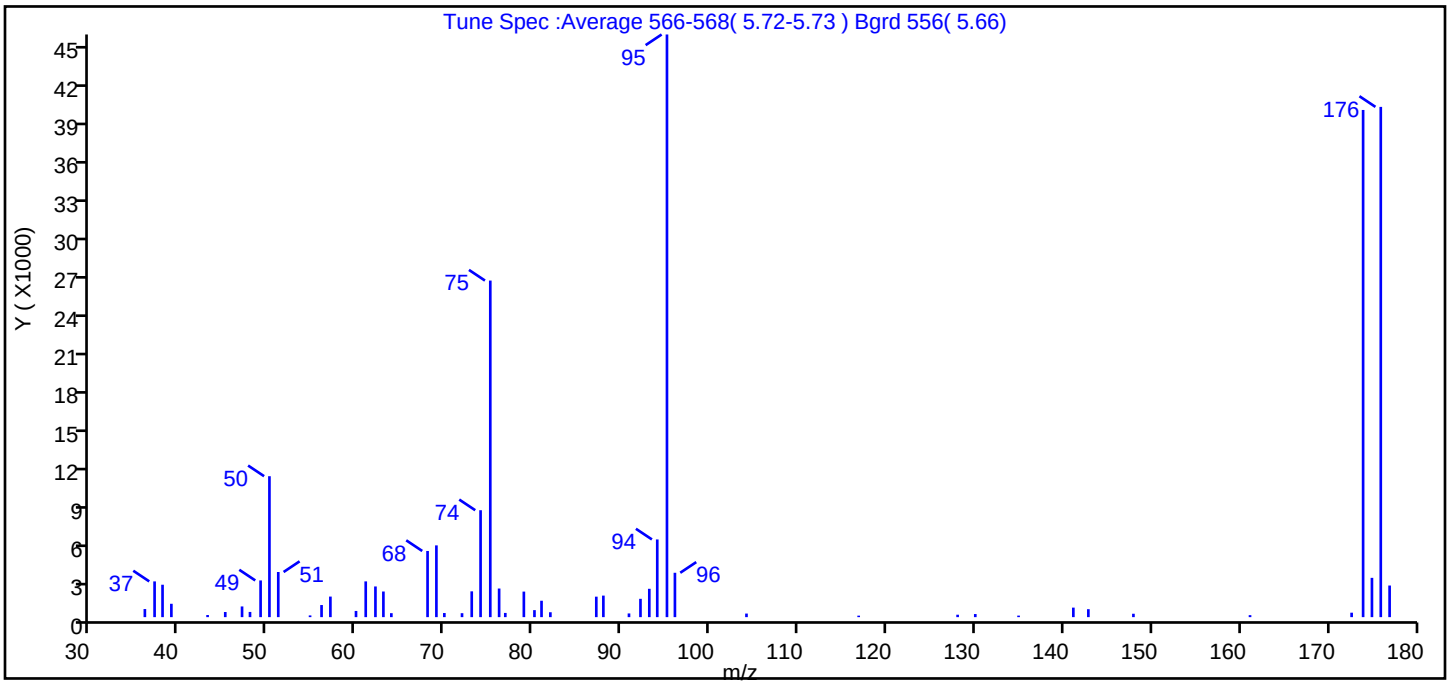
BFB_WRK_00116 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0407.D
Injection Date: 04-Feb-2021 12:02:30 Instrument ID: HP5973F
Lims ID: BFB
Client ID:
Operator ID: WD ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	24.2
75	30 to 60% of m/z 95	57.8
96	5 to 9% of m/z 95	7.6
173	Less than 2% of m/z 174	0.8 (0.9)
174	50 to 120% of m/z 95	87.0
175	5 to 9% of m/z 174	6.7 (7.7)
176	Greater than 95% but less than 101% of m/z 174	87.6 (100.6)
177	5 to 9% of m/z 176	5.4 (6.2)

Report Date: 04-Feb-2021 12:06:06 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0407.D\F-8260 SOIL.rslt\spectra.d
Injection Date: 04-Feb-2021 12:02:30
Spectrum: Tune Spec :Average 566-568(5.72-5.73) Bgrd 556(5.66)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 54

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	631	60.00	482	79.00	1990	128.00	189
37.00	2784	61.00	2785	80.00	546	130.00	242
38.00	2525	62.00	2390	81.00	1278	135.00	120
39.00	1041	63.00	1997	82.00	382	141.00	742
43.00	165	64.00	310	87.00	1595	143.00	620
45.00	400	68.00	5153	88.00	1678	148.00	265
47.00	833	69.00	5590	91.00	288	161.00	155
48.00	405	70.00	321	92.00	1427	173.00	347
49.00	2859	72.00	308	93.00	2208	174.00	39504
50.00	10978	73.00	2010	94.00	6052	175.00	3061
51.00	3516	74.00	8328	95.00	45384	176.00	39744
55.00	134	75.00	26216	96.00	3456	177.00	2463
56.00	943	76.00	2229	104.00	279		
57.00	1602	77.00	328	117.00	116		

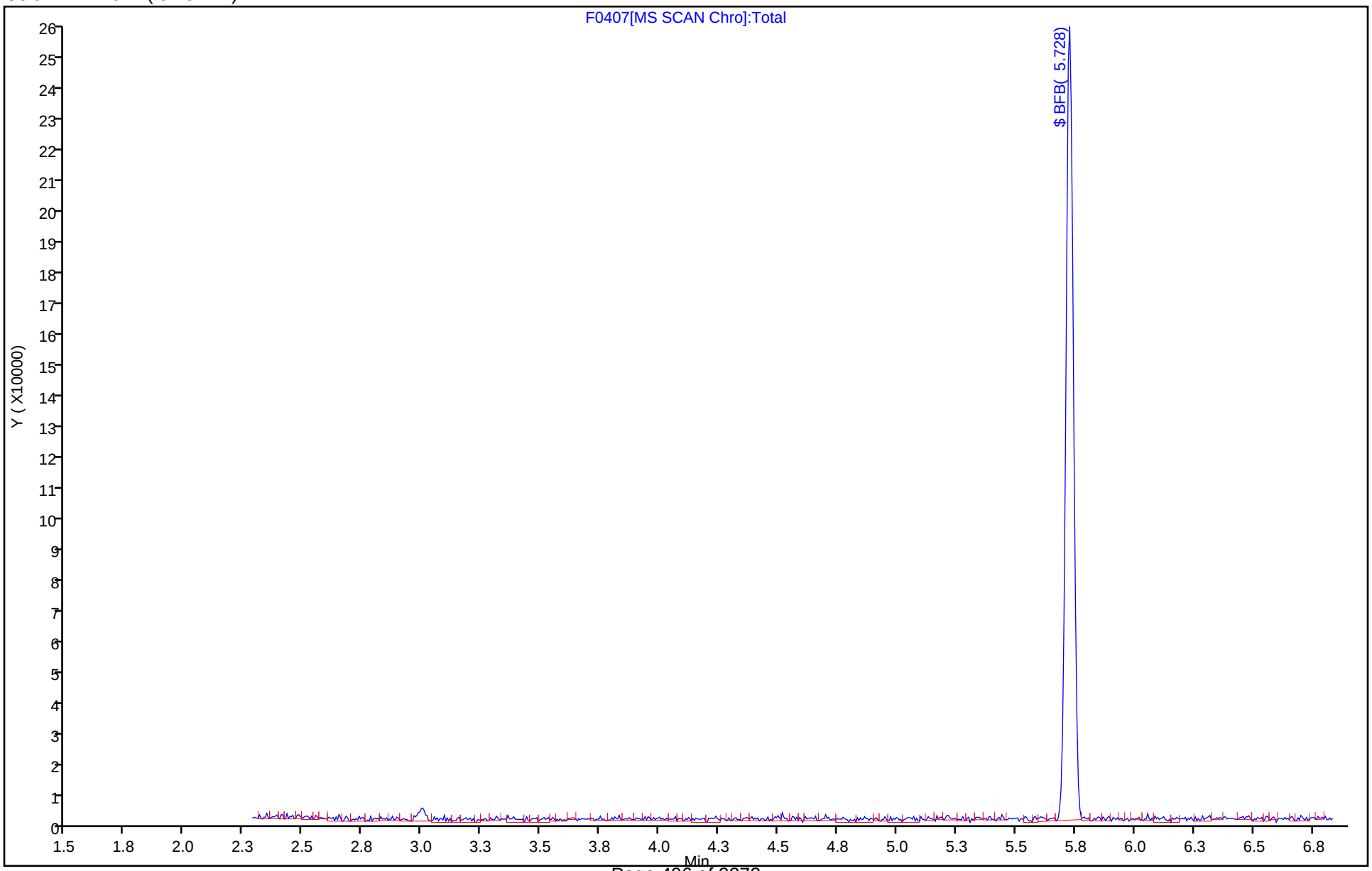
Report Date: 04-Feb-2021 12:06:06 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0407.D

Injection Date:	04-Feb-2021 12:02:30	Instrument ID:	HP5973F	Operator ID:	WD
Lims ID:	BFB			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\HP5973F\20210217-96701.b\F0656.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	17-Feb-2021 09:14:30	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	480-0096701-002				
Operator ID:	WD	Instrument ID:	HP5973F		
Method:	\\chromfs\Buffalo\ChromData\HP5973F\20210217-96701.b\F-8260 SOIL.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	17-Feb-2021 09:18:20	Calib Date:	04-Feb-2021 19:06:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0423.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1623				
First Level Reviewer: dahnw		Date:	17-Feb-2021 09:18:20		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
$ 61 BFB	95	5.728	5.728	0.000	0	74121	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

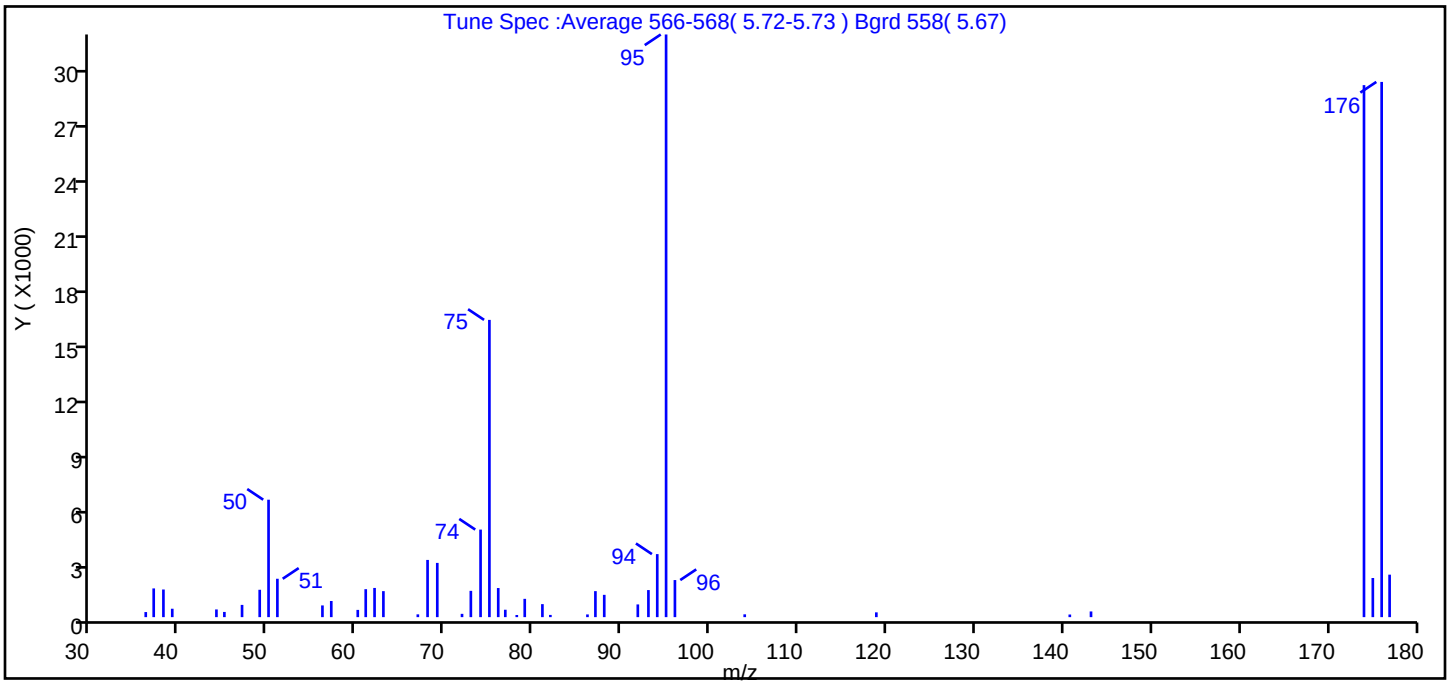
BFB_WRK_00117 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210217-96701.b\F0656.D
Injection Date: 17-Feb-2021 09:14:30 Instrument ID: HP5973F
Lims ID: BFB
Client ID:
Operator ID: WD ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.2
75	30 to 60% of m/z 95	51.0
96	5 to 9% of m/z 95	6.4
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	91.3
175	5 to 9% of m/z 174	6.7 (7.4)
176	Greater than 95% but less than 101% of m/z 174	91.9 (100.6)
177	5 to 9% of m/z 176	7.3 (7.9)

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210217-96701.b\F0656.D\F-8260 SOIL.rslt\spectra.d
Injection Date: 17-Feb-2021 09:14:30
Spectrum: Tune Spec :Average 566-568(5.72-5.73) Bgrd 558(5.67)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 45

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	279	60.00	397	77.00	406	96.00	2032
37.00	1574	61.00	1532	78.00	118	104.00	155
38.00	1515	62.00	1600	79.00	1003	119.00	263
39.00	461	63.00	1425	81.00	713	141.00	144
44.00	422	67.00	153	82.00	122	143.00	312
45.00	285	68.00	3135	86.00	149	174.00	29152
47.00	671	69.00	2972	87.00	1425	175.00	2144
49.00	1500	72.00	181	88.00	1222	176.00	29328
50.00	6435	73.00	1441	92.00	697	177.00	2328
51.00	2103	74.00	4798	93.00	1483		
56.00	642	75.00	16289	94.00	3454		
57.00	885	76.00	1595	95.00	31928		

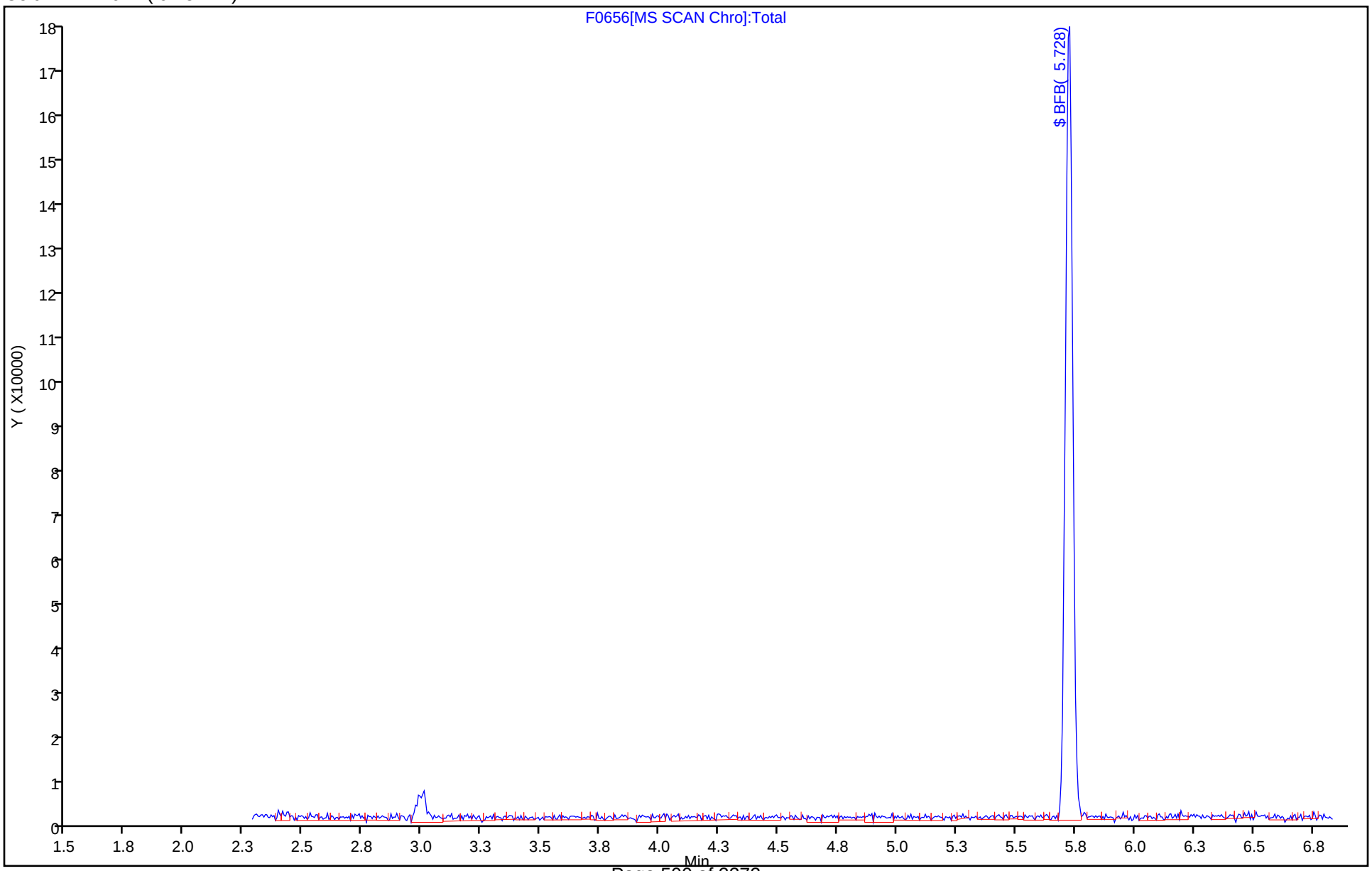
Report Date: 17-Feb-2021 09:18:20 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210217-96701.b\F0656.D

Injection Date:	17-Feb-2021 09:14:30	Instrument ID:	HP5973F	Operator ID:	WD
Lims ID:	BFB			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210218-96726.b\F0684.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 18-Feb-2021 08:58:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0096726-002
Operator ID: WD Instrument ID: HP5973F

Method: \\chromfs\Buffalo\ChromData\HP5973F\20210218-96726.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Feb-2021 09:02:02 Calib Date: 04-Feb-2021 19:06:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0423.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: dahnw Date: 18-Feb-2021 09:02:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
$ 61 BFB	95	5.722	5.722	0.000	0	87650	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

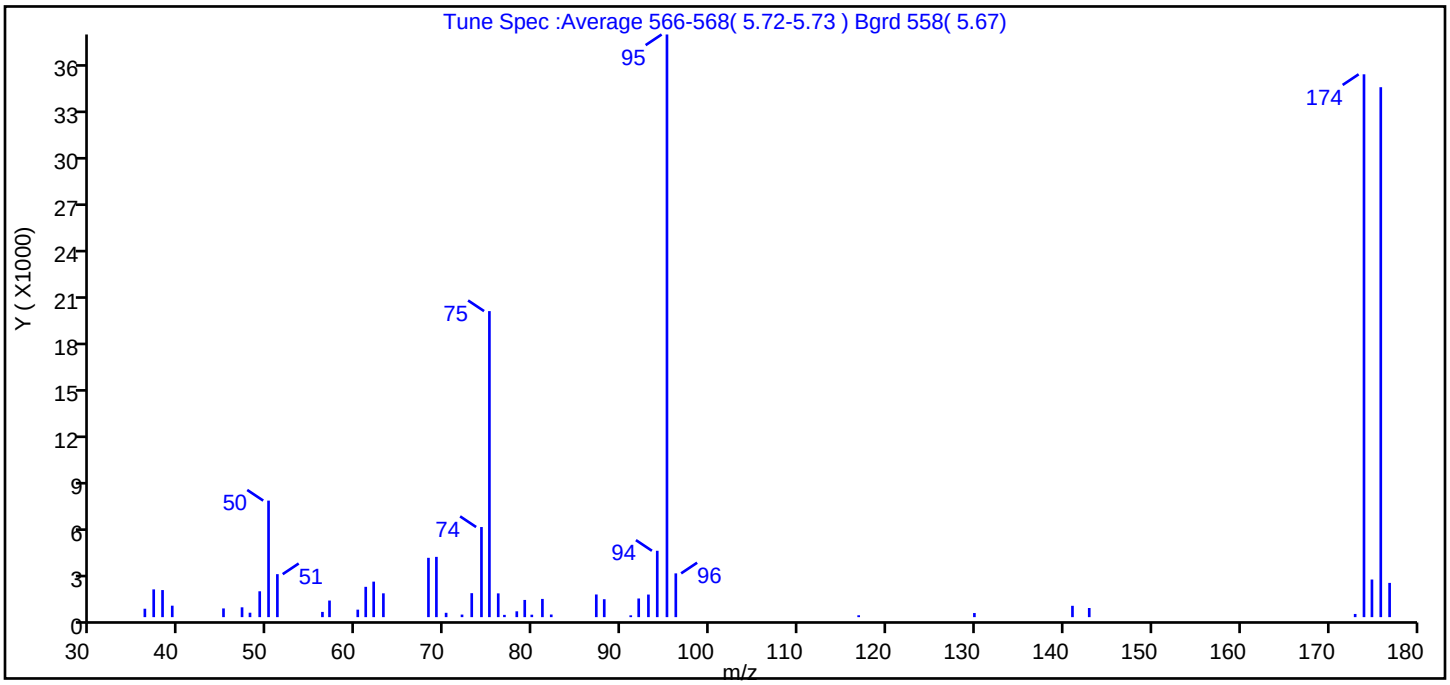
BFB_WRK_00117 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973F\20210218-96726.b\F0684.D				
Injection Date:	18-Feb-2021 08:58:30	Instrument ID:	HP5973F		
Lims ID:	BFB				
Client ID:					
Operator ID:	WD	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Tune Method:	BFB Method 8260				

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.0
75	30 to 60% of m/z 95	52.5
96	5 to 9% of m/z 95	7.5
173	Less than 2% of m/z 174	0.5 (0.6)
174	50 to 120% of m/z 95	93.2
175	5 to 9% of m/z 174	6.5 (6.9)
176	Greater than 95% but less than 101% of m/z 174	91.0 (97.6)
177	5 to 9% of m/z 176	5.9 (6.5)

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210218-96726.b\F0684.D\F-8260 SOIL.rslt\spectra.d
Injection Date: 18-Feb-2021 08:58:30
Spectrum: Tune Spec :Average 566-568(5.72-5.73) Bgrd 558(5.67)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 47

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	543	60.00	483	77.00	147	95.00	37576
37.00	1791	61.00	1955	78.00	377	96.00	2823
38.00	1746	62.00	2290	79.00	1110	117.00	120
39.00	739	63.00	1536	80.00	158	130.00	265
45.00	562	68.00	3826	81.00	1175	141.00	731
47.00	634	69.00	3887	82.00	169	143.00	589
48.00	286	70.00	280	87.00	1462	173.00	206
49.00	1668	72.00	166	88.00	1156	174.00	35008
50.00	7515	73.00	1546	91.00	117	175.00	2426
51.00	2772	74.00	5811	92.00	1203	176.00	34176
56.00	338	75.00	19736	93.00	1457	177.00	2209
57.00	1071	76.00	1533	94.00	4280		

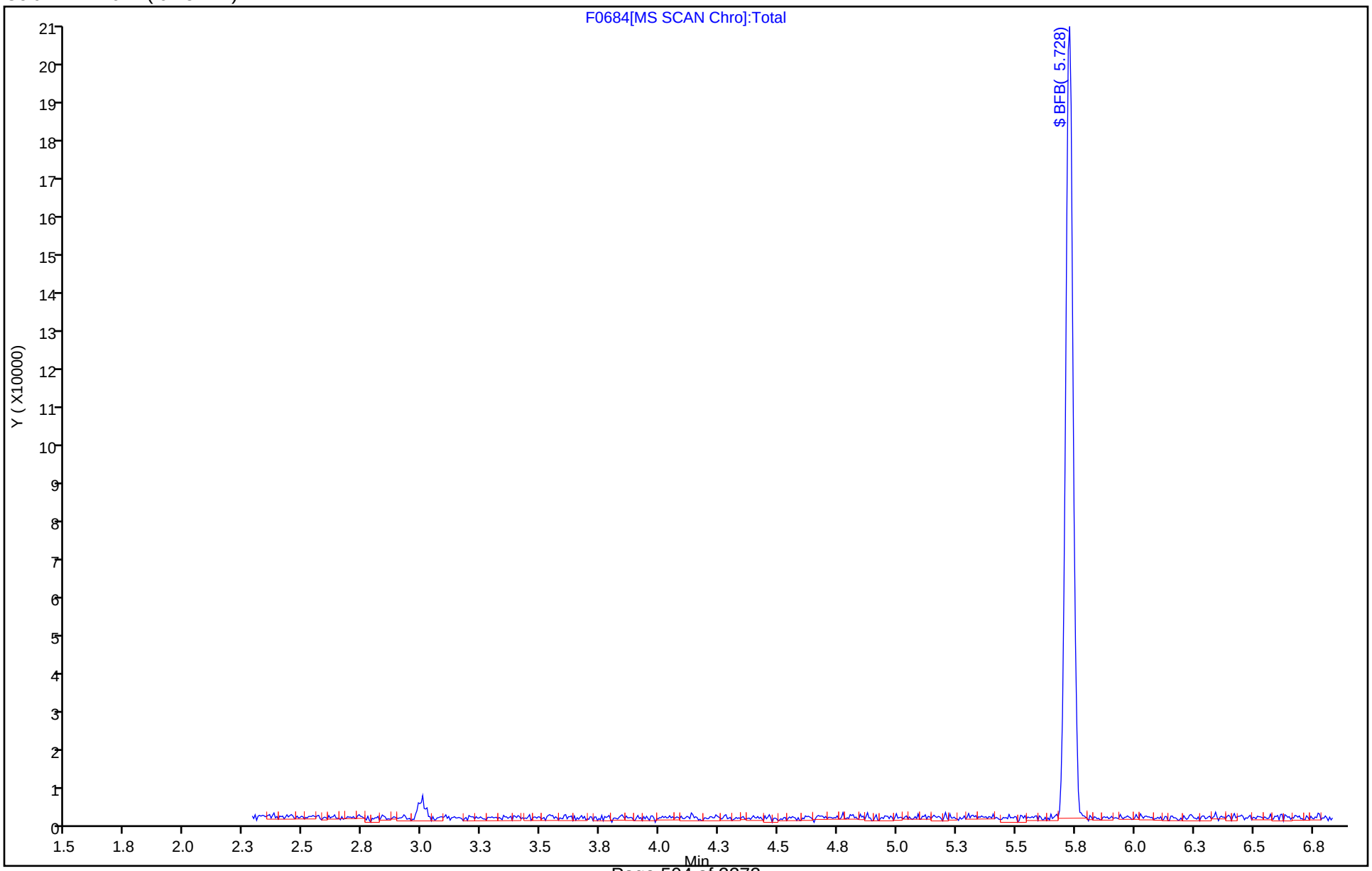
Report Date: 18-Feb-2021 09:02:02 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210218-96726.b\F0684.D

Injection Date:	18-Feb-2021 08:58:30	Instrument ID:	HP5973F	Operator ID:	WD
Lims ID:	BFB			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5847.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 18-Jan-2021 14:17:04 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0096150-003
Operator ID: LH Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Jan-2021 14:28:31 Calib Date: 18-Dec-2020 22:20:29
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20201218-95735.b\L5475.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1617

First Level Reviewer: HillL Date: 18-Jan-2021 14:28:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 8 BFB	95	6.203	6.203	0.000	0	79661	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

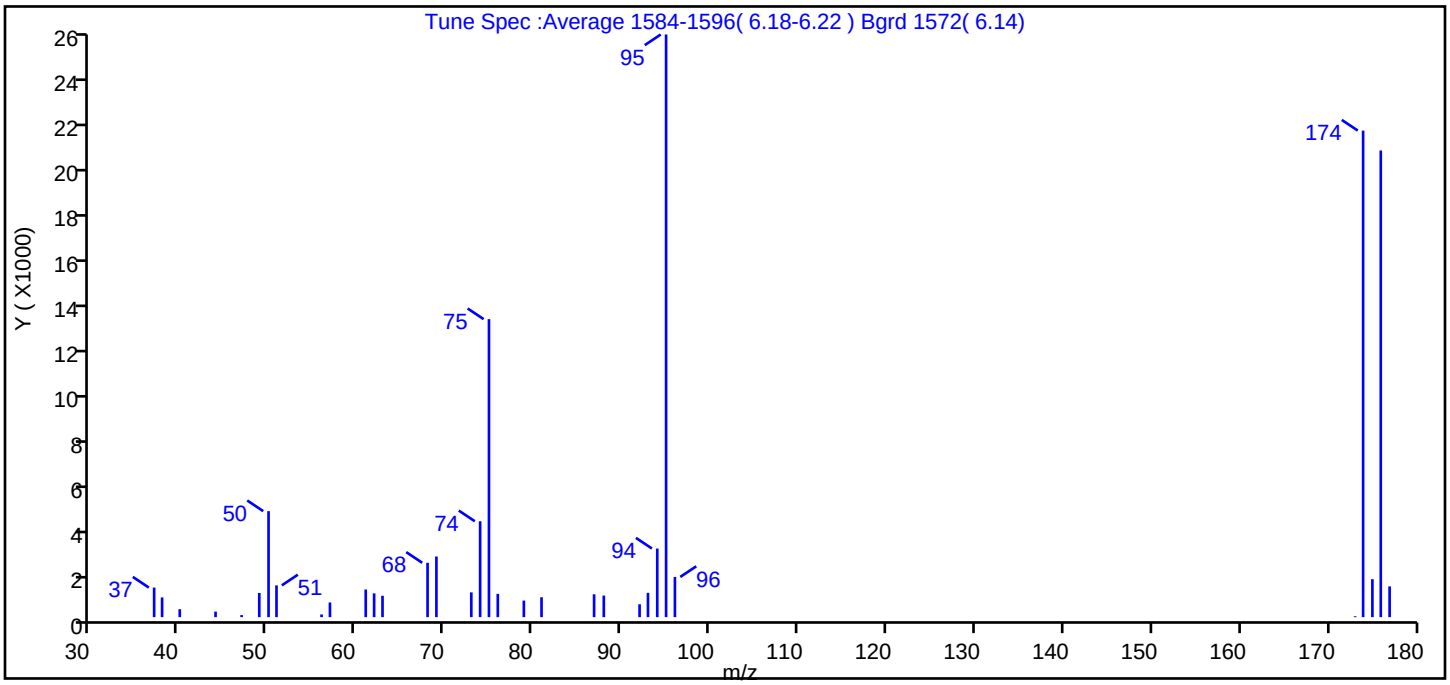
BFB_WRK_00116 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5847.D
Injection Date: 18-Jan-2021 14:17:04 Instrument ID: HP5977L
Lims ID: BFB
Client ID:
Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: L-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.2
75	30 to 60% of m/z 95	51.1
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	0.2 (0.2)
174	50 to 120% of m/z 95	83.5
175	5 to 9% of m/z 174	6.5 (7.8)
176	Greater than 95% but less than 101% of m/z 174	80.1 (95.9)
177	5 to 9% of m/z 176	5.3 (6.6)

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5847.D\L-8260.rslt\spectra.d
Injection Date: 18-Jan-2021 14:17:04
Spectrum: Tune Spec :Average 1584-1596(6.18-6.22) Bgrd 1572(6.14)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 33

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1295	57.00	643	76.00	1019	96.00	1760
38.00	863	61.00	1210	79.00	725	173.00	39
40.00	348	62.00	1042	81.00	870	174.00	21304
44.00	242	63.00	936	87.00	1001	175.00	1662
47.00	90	68.00	2380	88.00	945	176.00	20432
49.00	1058	69.00	2656	92.00	563	177.00	1346
50.00	4641	73.00	1084	93.00	1063		
51.00	1392	74.00	4199	94.00	3004		
56.00	119	75.00	13048	95.00	25512		

Report Date: 18-Jan-2021 14:28:31 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5847.D

Injection Date: 18-Jan-2021 14:17:04 Instrument ID: HP5977L

Lims ID: BFB

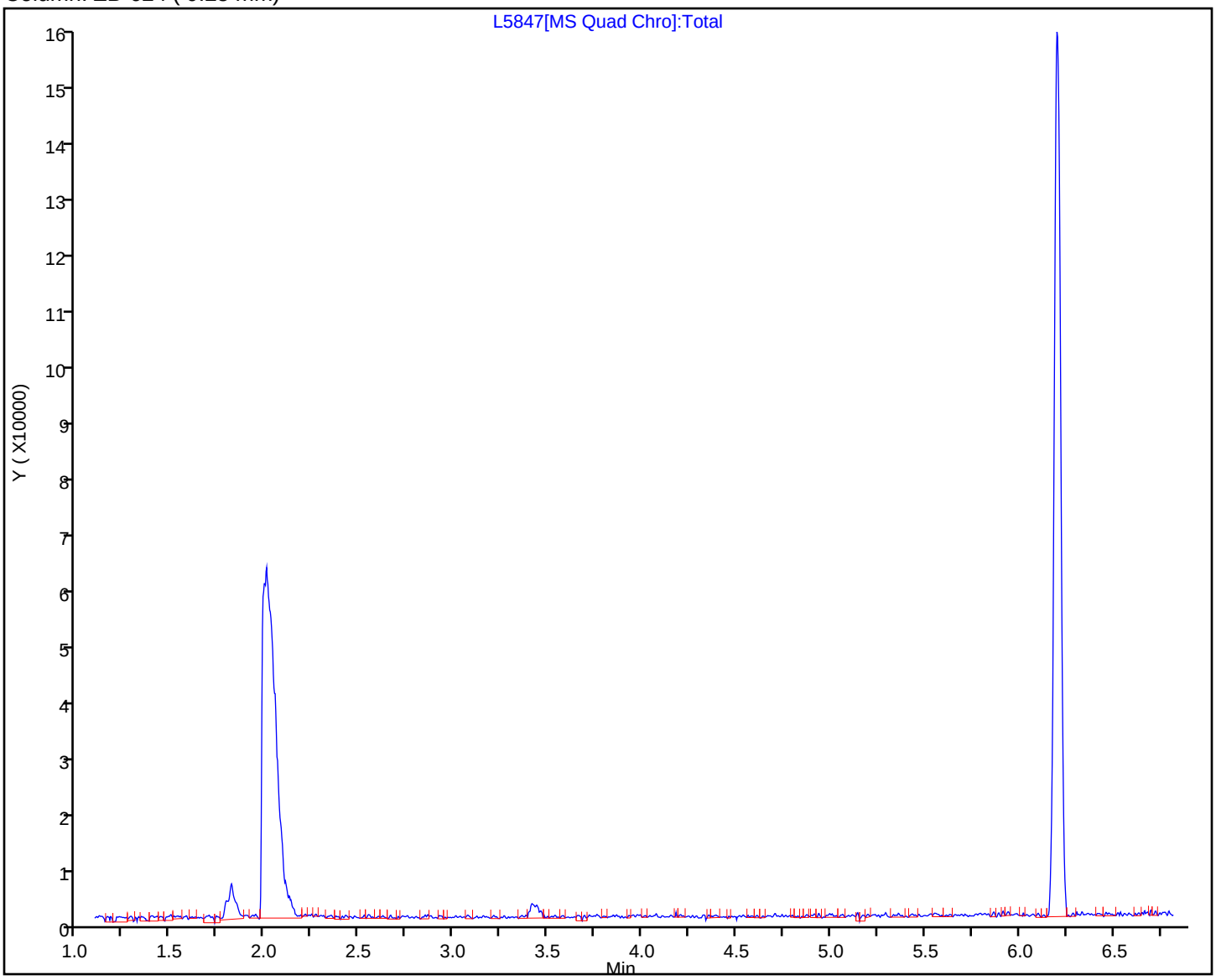
Client ID:

Operator ID: LH ALS Bottle#: 0 Worklist Smp#: 3

Injection Vol: 1.0 uL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210217-96706.b\L6299.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 17-Feb-2021 10:11:16 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0096706-002
Operator ID: OI Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20210217-96706.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 17-Feb-2021 10:58:12 Calib Date: 18-Jan-2021 22:35:42
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5867.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1632

First Level Reviewer: izquierdoo Date: 17-Feb-2021 10:58:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 8 BFB	95	6.190	6.190	0.000	0	404834	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

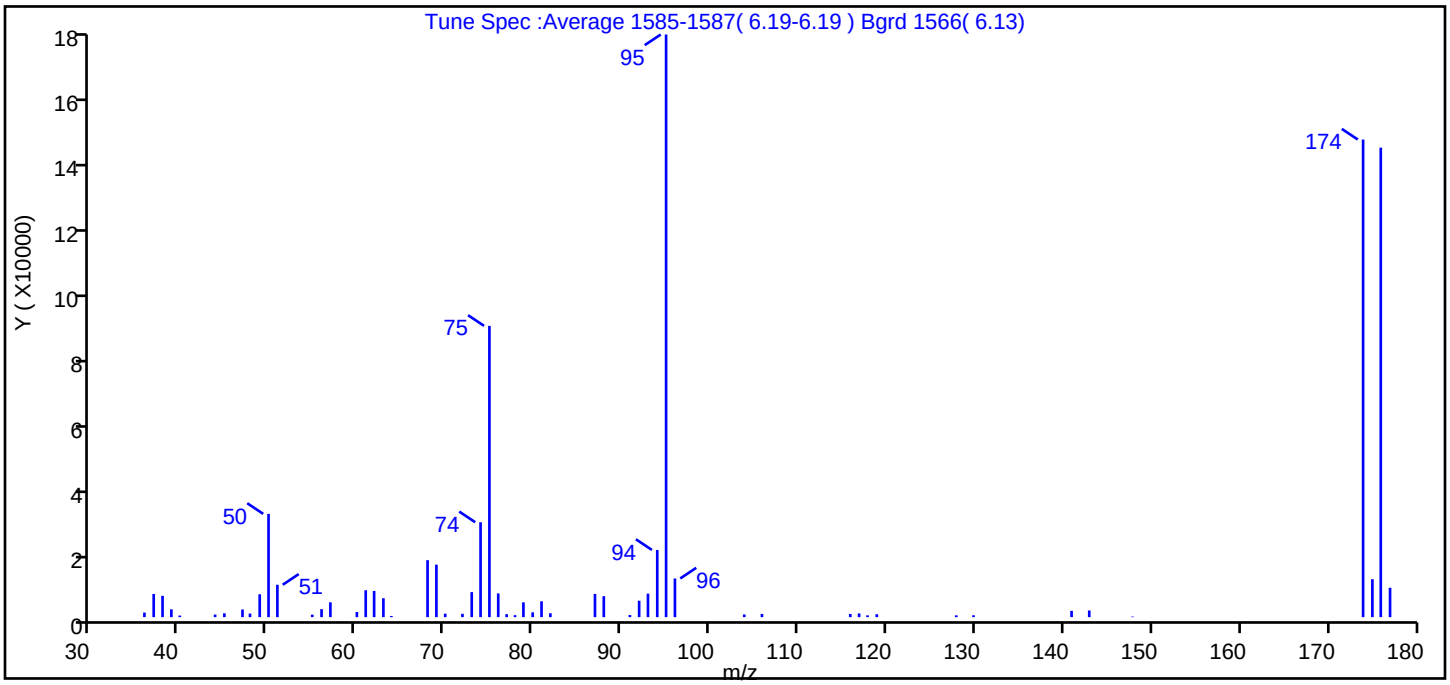
BFB_WRK_00117 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20210217-96706.b\L6299.D				
Injection Date:	17-Feb-2021 10:11:16	Instrument ID:	HP5977L		
Lims ID:	BFB				
Client ID:					
Operator ID:	OI	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Tune Method:	BFB Method 8260				

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.7
75	30 to 60% of m/z 95	50.0
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	82.0
175	5 to 9% of m/z 174	6.5 (7.9)
176	Greater than 95% but less than 101% of m/z 174	80.6 (98.3)
177	5 to 9% of m/z 176	5.0 (6.3)

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210217-96706.b\L6299.D\L-8260.rslt\spectra.d
Injection Date: 17-Feb-2021 10:11:16
Spectrum: Tune Spec :Average 1585-1587(6.19-6.19) Bgrd 1566(6.13)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 57

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1373	60.00	1541	79.00	4435	117.00	1112
37.00	6942	61.00	8068	80.00	1442	118.00	541
38.00	6389	62.00	7855	81.00	4755	119.00	873
39.00	2341	63.00	5673	82.00	1165	128.00	546
40.00	474	64.00	360	87.00	6971	130.00	567
44.00	762	68.00	17080	88.00	6290	141.00	1891
45.00	1155	69.00	15737	91.00	633	143.00	1995
47.00	2297	70.00	1040	92.00	4922	148.00	170
48.00	1076	72.00	1007	93.00	7041	174.00	143168
49.00	6859	73.00	7505	94.00	20144	175.00	11369
50.00	30952	74.00	28448	95.00	174656	176.00	140736
51.00	9705	75.00	87312	96.00	11592	177.00	8807
55.00	752	76.00	7104	104.00	803		
56.00	2398	77.00	890	106.00	967		
57.00	4449	78.00	596	116.00	950		

Report Date: 17-Feb-2021 10:58:13 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210217-96706.b\L6299.D

Injection Date: 17-Feb-2021 10:11:16 Instrument ID: HP5977L

Lims ID: BFB

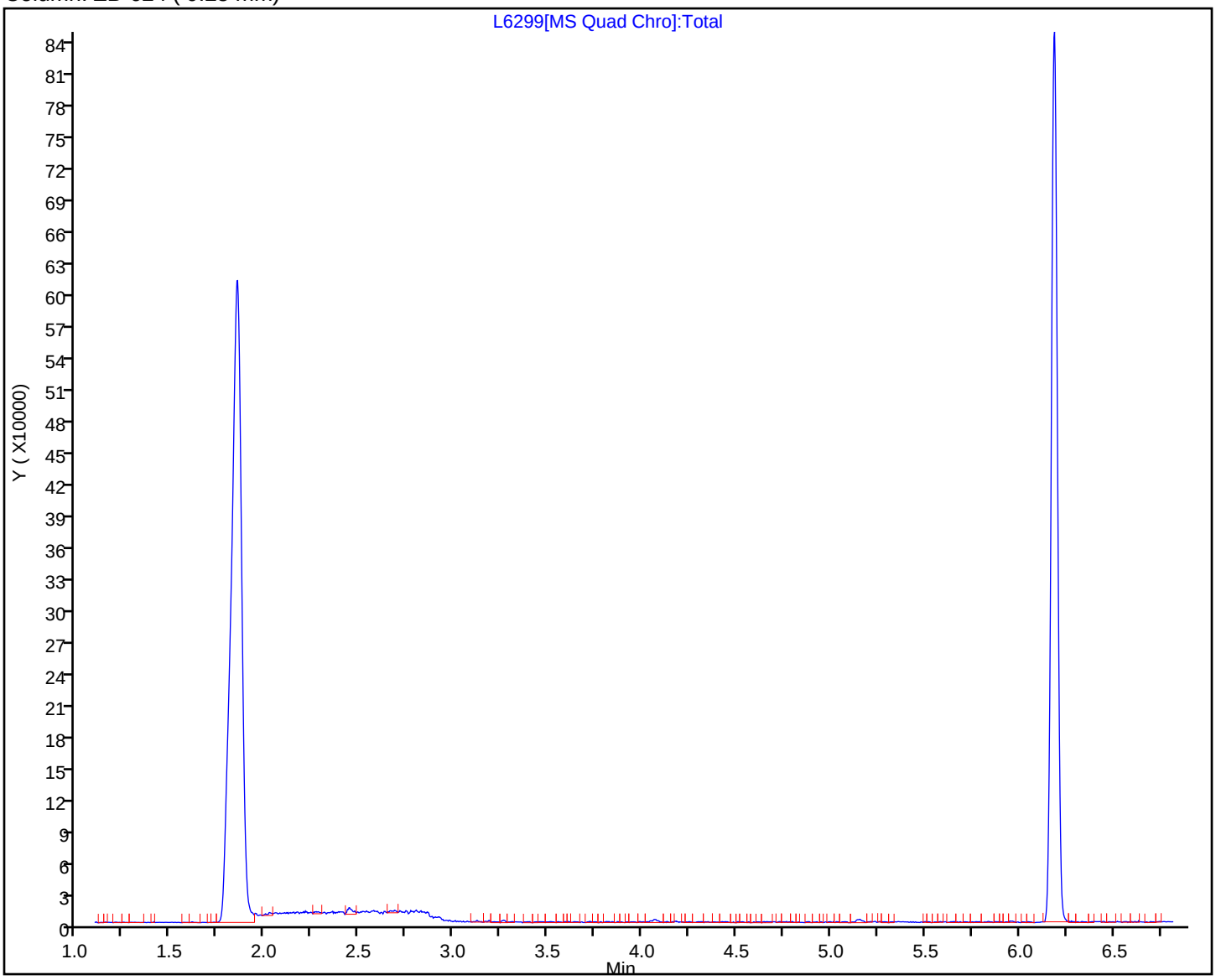
Client ID:

Operator ID: OI ALS Bottle#: 0 Worklist Smp#: 2

Injection Vol: 1.0 uL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 480-569749/7

Matrix: Water Lab File ID: L6304.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 02/17/2021 12:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 569749 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.79
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.78
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	10	U	10	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	10	U	10	3.0
71-43-2	Benzene	1.0	U	1.0	0.41
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-25-2	Bromoform	1.0	U	1.0	0.26
74-83-9	Bromomethane	1.0	U	1.0	0.69
75-15-0	Carbon disulfide	1.0	U	1.0	0.19
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.75
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.34
74-87-3	Chloromethane	1.0	U	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
110-82-7	Cyclohexane	1.0	U	1.0	0.18
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 480-569749/7

Matrix: Water Lab File ID: L6304.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 02/17/2021 12:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 569749 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	2.5	U	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		77-120
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
1868-53-7	Dibromofluoromethane (Surr)	97		75-123

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210217-96706.b\L6304.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 17-Feb-2021 12:19:42 ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0096706-007
Operator ID: OI Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20210217-96706.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 17-Feb-2021 13:38:50 Calib Date: 18-Jan-2021 22:35:42
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5867.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1632

First Level Reviewer: izquierdoo Date: 17-Feb-2021 13:38:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.485	6.482	0.003	99	134693	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.443	9.443	0.000	86	572164	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.736	11.736	0.000	96	314811	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.913	5.910	0.003	94	181583	25.0	24.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.228	6.225	0.003	98	211468	25.0	23.4	
$ 6 Toluene-d8 (Surr)	98	7.948	7.945	0.003	93	685609	25.0	25.2	
$ 7 4-Bromofluorobenzene (Surr)	174	10.652	10.652	0.000	99	241755	25.0	24.2	
10 Dichlorodifluoromethane	85		2.170					ND	
9 Chlorodifluoromethane	51		2.206					ND	
13 Chloromethane	50		2.434					ND	
14 Vinyl chloride	62		2.559					ND	
15 Butadiene	54		2.575					ND	
18 Bromomethane	94		2.958					ND	
19 Chloroethane	64		3.054					ND	
20 Dichlorofluoromethane	67		3.283					ND	
21 Trichlorofluoromethane	101		3.299					ND	
11 Ethanol	45		3.572					ND	
26 Ethyl ether	59		3.585					ND	
12 Propene oxide	58		3.698					ND	
28 Acrolein	56		3.788					ND	
29 112TCTFE	101		3.807					ND	
30 1,1-Dichloroethene	96		3.836					ND	
31 Acetone	43		3.932					ND	U
33 Iodomethane	142		4.026					ND	
16 Isopropyl alcohol	45		4.067					ND	
35 Carbon disulfide	76		4.080					ND	
37 3-Chloro-1-propene	41		4.196					ND	
38 Methyl acetate	43		4.209					ND	U
17 Acetonitrile	40		4.247					ND	
39 Methylene Chloride	84		4.334					ND	U
40 2-Methyl-2-propanol	59		4.427					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
41 Methyl tert-butyl ether	73		4.514					ND	
42 trans-1,2-Dichloroethene	96		4.556					ND	
44 Acrylonitrile	53		4.595					ND	
47 Hexane	57		4.717					ND	
22 Isopropyl ether	45		4.910					ND	
23 Halothane	117		4.926					ND	
49 Vinyl acetate	43		4.955					ND	
50 1,1-Dichloroethane	63		4.955					ND	
25 1,1-Dimethoxyethane	75		4.997					ND	
24 2-Chloro-1,3-butadiene	53		5.013					ND	
27 Tert-butyl ethyl ether	59		5.231					ND	
56 2,2-Dichloropropane	77		5.456					ND	
32 Ethyl acetate	43		5.479					ND	
57 2-Butanone (MEK)	43		5.479					ND	
58 cis-1,2-Dichloroethene	96		5.479					ND	
34 Propionitrile	54		5.598					ND	
36 Methacrylonitrile	41		5.701					ND	
60 Chlorobromomethane	128		5.714					ND	
61 Tetrahydrofuran	42		5.726					ND	
62 Chloroform	83	5.755	5.759	-0.004	84	2542		0.1611	
64 1,1,1-Trichloroethane	97		5.900					ND	
65 Cyclohexane	56		5.919					ND	
67 1,1-Dichloropropene	75		6.035					ND	
66 Carbon tetrachloride	117		6.038					ND	
69 Isobutyl alcohol	43		6.135					ND	U
43 Isooctane	57		6.196					ND	
45 t-Amyl alcohol	59		6.212					ND	
70 Benzene	78		6.244					ND	
46 Tert-amyl methyl ether	73		6.257					ND	
72 1,2-Dichloroethane	62		6.296					ND	
73 n-Heptane	43		6.337					ND	U
48 1,4-Difluorobenzene	114		6.559					ND	
51 2,4,4-Trimethyl-1-pentene	55		6.675					ND	
52 n-Butanol	56		6.730					ND	
75 Trichloroethene	95		6.810					ND	
53 Ethyl acrylate	55		6.861					ND	
54 2,4,4-Trimethyl-2-pentene	97		6.874					ND	
76 Methylcyclohexane	83		6.942					ND	
77 1,2-Dichloropropane	63		7.054					ND	
55 Methyl methacrylate	41		7.070					ND	
81 1,4-Dioxane	88		7.164					ND	
82 Dibromomethane	93		7.199					ND	
83 Dichlorobromomethane	83		7.318					ND	
84 2-Chloroethyl vinyl ether	63		7.533					ND	
59 2-Nitropropane	43		7.553					ND	
63 Epichlorohydrin	57		7.665					ND	
85 cis-1,3-Dichloropropene	75		7.714					ND	
87 4-Methyl-2-pentanone (MIBK)	43		7.820					ND	
88 Toluene	92		8.013					ND	
68 2-Methylthiophene	97		8.160					ND	
90 Ethyl methacrylate	69		8.241					ND	
91 trans-1,3-Dichloropropene	75		8.257					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
71 3-Methylthiophene	97		8.321					ND	
93 1,1,2-Trichloroethane	83		8.463					ND	
94 Tetrachloroethene	166		8.550					ND	
95 1,3-Dichloropropane	76		8.633					ND	
96 2-Hexanone	43		8.640					ND	U
74 n-Butyl acetate	43		8.710					ND	
98 Chlorodibromomethane	129		8.884					ND	
101 Ethylene Dibromide	107		9.019					ND	
78 1-Chlorohexane	55		9.357					ND	
79 3-Chlorobenzotrifluoride	180		9.360					ND	
80 4-Chlorobenzotrifluoride	180		9.421					ND	
103 Chlorobenzene	112		9.476					ND	
104 Ethylbenzene	91		9.533					ND	
105 1,1,1,2-Tetrachloroethane	131		9.553					ND	
106 m-Xylene & p-Xylene	106		9.646					ND	
107 o-Xylene	106		10.086					ND	
109 Styrene	104		10.109					ND	7
86 2-Chlorobenzotrifluoride	180		10.353					ND	
110 Bromoform	173		10.389					ND	
111 Isopropylbenzene	105		10.437					ND	
89 Cyclohexanone	55		10.649					ND	U
112 1,1,2,2-Tetrachloroethane	83		10.810					ND	
113 Bromobenzene	156		10.820					ND	
114 N-Propylbenzene	91		10.842					ND	
115 trans-1,4-Dichloro-2-butene	53		10.852					ND	
116 1,2,3-Trichloropropane	110		10.868					ND	
117 2-Chlorotoluene	126		10.977					ND	
118 1,3,5-Trimethylbenzene	105		11.000					ND	7
92 3-Chlorotoluene	126		11.032					ND	
119 4-Chlorotoluene	91	11.076	11.077	-0.001	89	3057		0.1018	
120 tert-Butylbenzene	134		11.315					ND	
121 1,2,4-Trimethylbenzene	105		11.363					ND	
97 Pentachloroethane	167		11.398					ND	
122 sec-Butylbenzene	105		11.511					ND	
123 4-Isopropyltoluene	119	11.633	11.630	0.003	92	4208		0.1093	
124 1,3-Dichlorobenzene	146	11.678	11.678	0.000	87	2444		0.1191	
99 Dicyclopentadiene	66		11.749					ND	U
126 1,4-Dichlorobenzene	146		11.755					ND	
100 1,2,3-Trimethylbenzene	105		11.762					ND	7
102 Benzyl chloride	126		11.884					ND	
127 n-Butylbenzene	91	12.002	11.996	0.006	92	6403		0.1939	
128 1,2-Dichlorobenzene	146		12.099					ND	7
129 1,2-Dibromo-3-Chloropropane	75		12.775					ND	
108 1,3,5-Trichlorobenzene	180		12.890					ND	
130 1,2,4-Trichlorobenzene	180		13.440					ND	U
131 Hexachlorobutadiene	225		13.533					ND	U
132 Naphthalene	128		13.694					ND	
133 1,2,3-Trichlorobenzene	180		13.919					ND	U
125 2-Methylnaphthalene	142		14.845					ND	U
136 1-Bromopropane TIC	1		0.000					ND	
139 Hexachloroethane	117		0.000					ND	
134 Ethylene oxide TIC	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
135 Propene oxide TIC	1		0.000					ND	
138 Nitrobenzene	77		0.000					ND	
137 cis-1,4-Dichloro-2-butene	88		0.000					ND	
S 143 Xylenes, Total	1		30.000					ND	7
S 142 Total BTEX	1		30.000					ND	7
S 144 1,3-Dichloropropene, Total	1		30.000					ND	7
S 141 1,2-Dichloroethene, Total	1		30.000					ND	7
S 145 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

L_8260_SURR_00023	Amount Added:	2.00	Units: uL	Run Reagent
L_8260_IS_00024	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 17-Feb-2021 13:38:51 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210217-96706.b\L6304.D

Injection Date: 17-Feb-2021 12:19:42 Instrument ID: HP5977L

Lims ID: MB

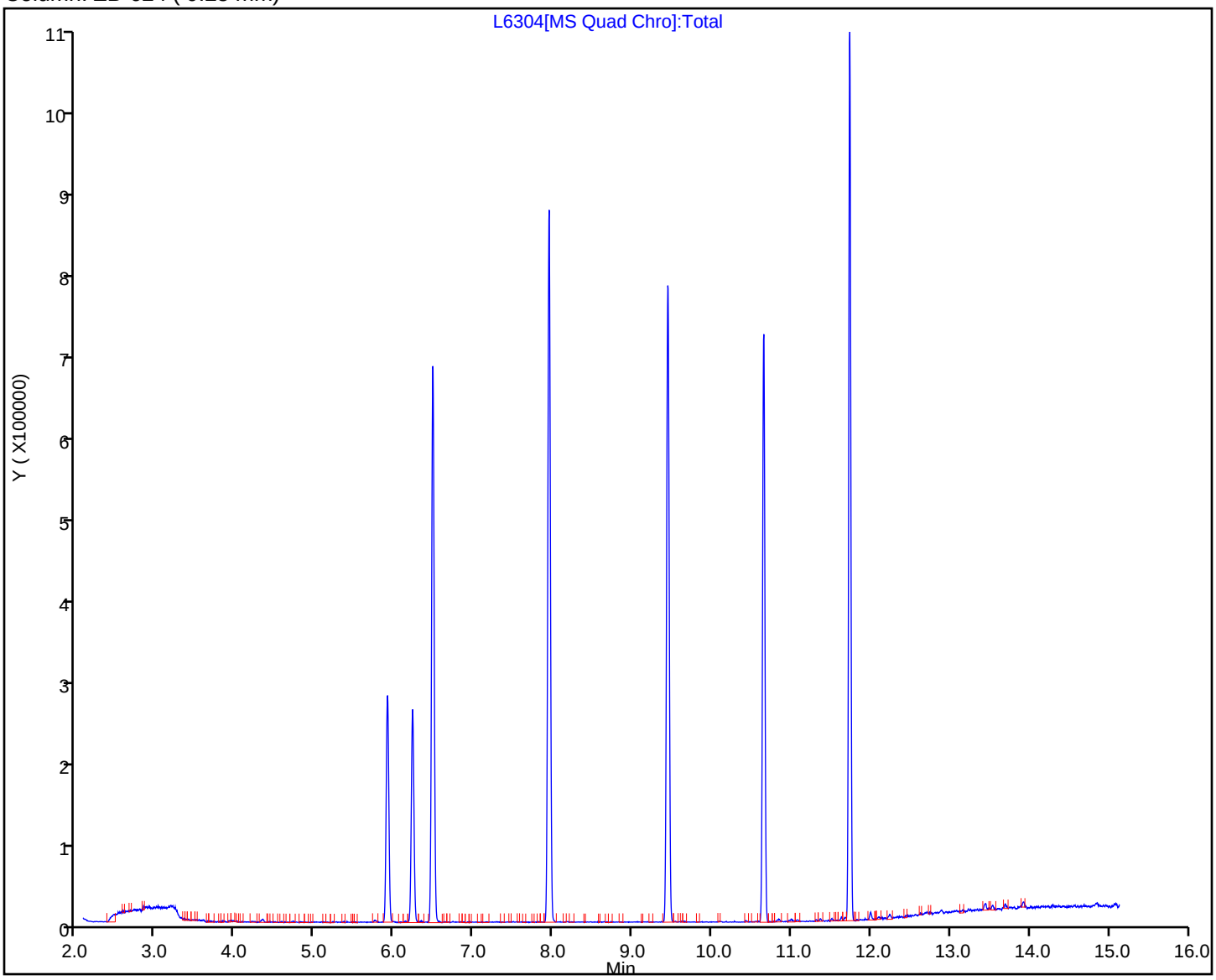
Client ID:

Operator ID: OI ALS Bottle#: 0 Worklist Smp#: 7

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



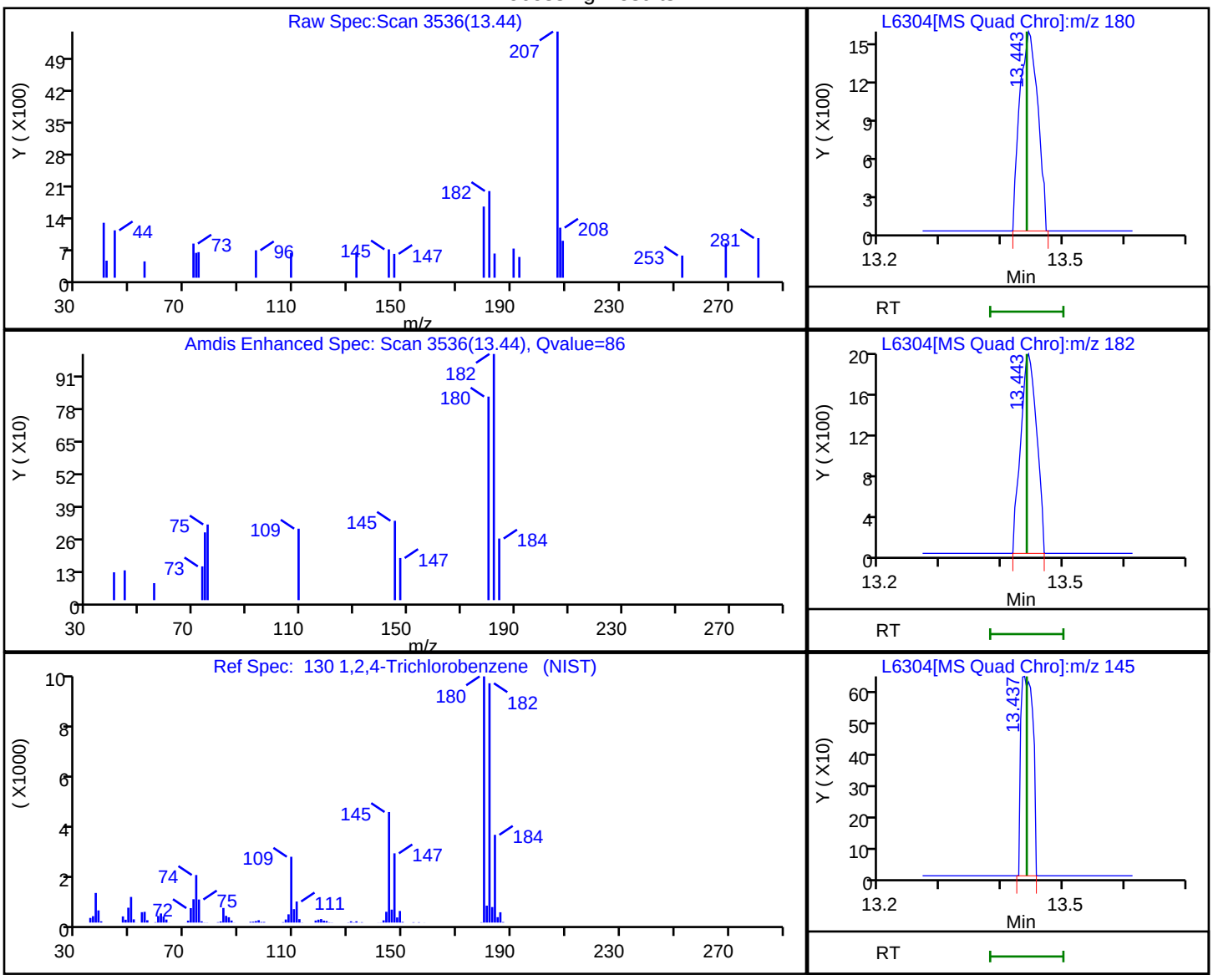
User Disabled Compound Report

Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20210217-96706.b\L6304.D				
Injection Date:	17-Feb-2021 12:19:42	Instrument ID:	HP5977L		
Lims ID:	MB				
Client ID:					
Operator ID:	OI	ALS Bottle#:	0	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

130 1,2,4-Trichlorobenzene, CAS: 120-82-1

Processing Results



RT	Mass	Response	Amount
13.44	180.00	3225	0.214556
13.44	182.00	3491	
13.44	145.00	890	

Reviewer: izquierdoo, 17-Feb-2021 13:37:39

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

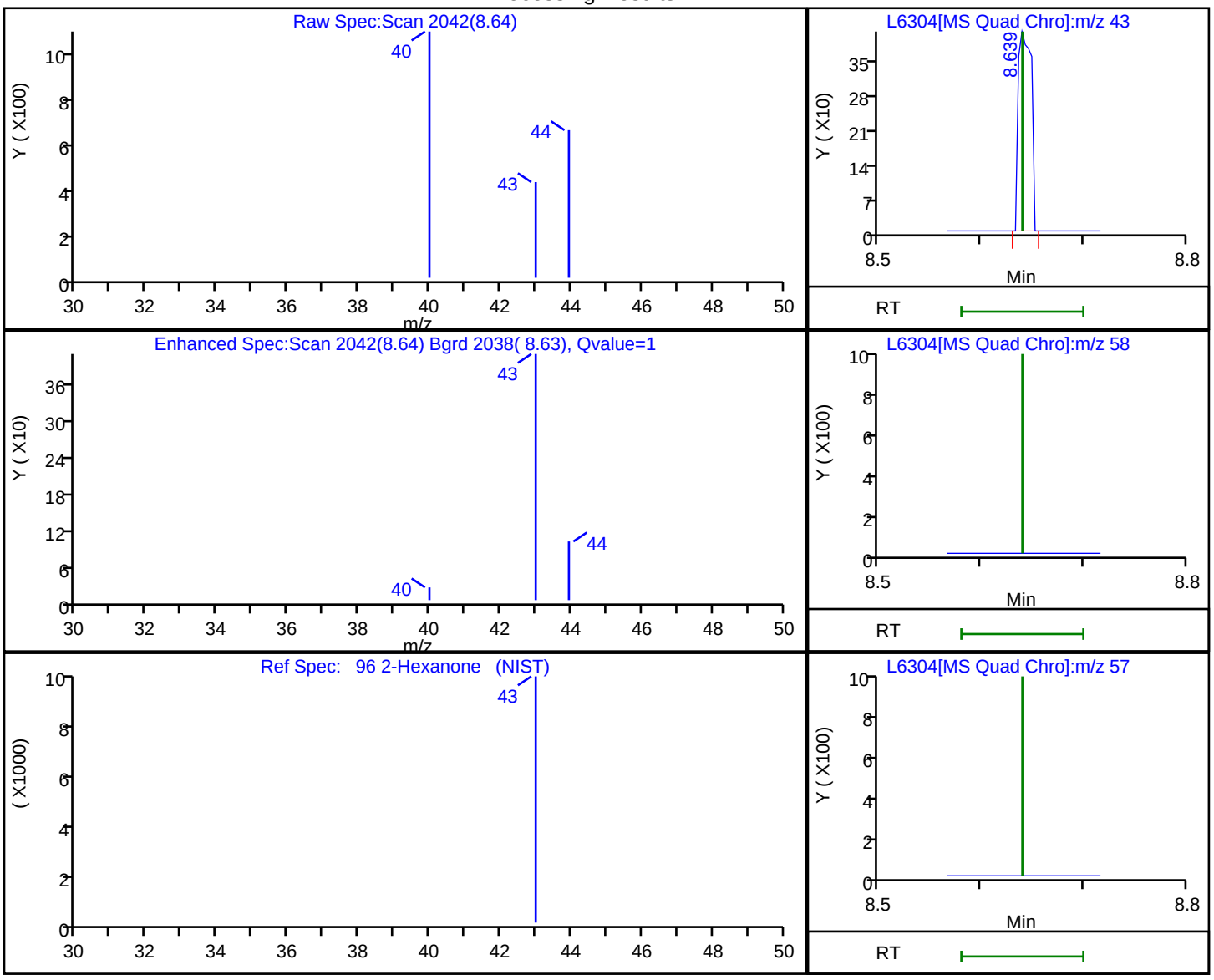
User Disabled Compound Report

Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20210217-96706.b\L6304.D				
Injection Date:	17-Feb-2021 12:19:42	Instrument ID:	HP5977L		
Lims ID:	MB				
Client ID:					
Operator ID:	OI	ALS Bottle#:	0	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

96 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
8.64	43.00	361	0.054458
8.64	58.00	0	
8.64	57.00	0	

Reviewer: izquierdoo, 17-Feb-2021 13:38:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

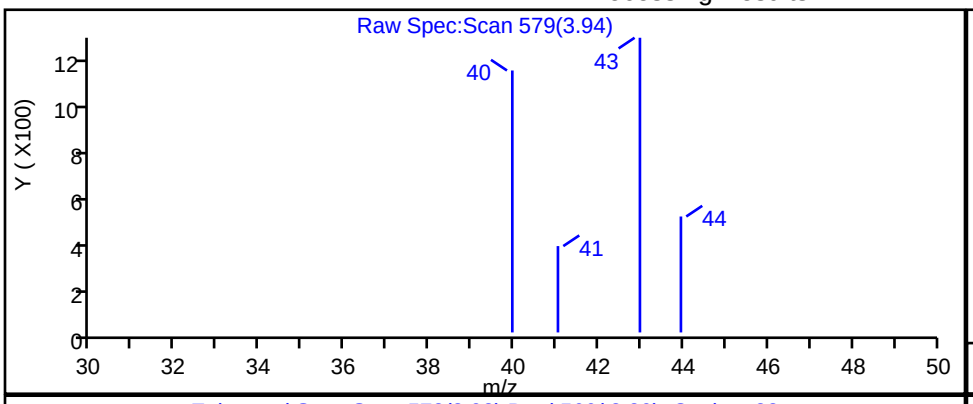
User Disabled Compound Report

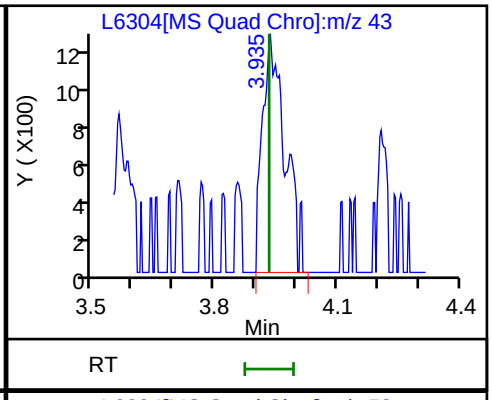
Eurofins TestAmerica, Buffalo

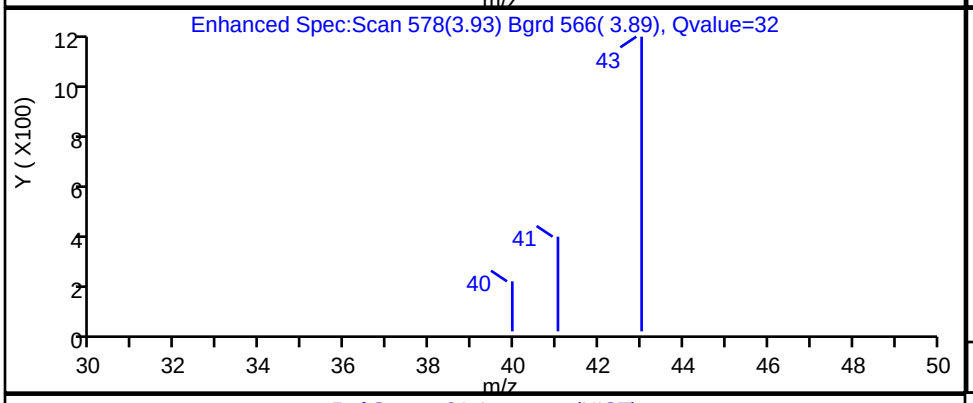
Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20210217-96706.b\L6304.D				
Injection Date:	17-Feb-2021 12:19:42	Instrument ID:	HP5977L		
Lims ID:	MB				
Client ID:					
Operator ID:	OI	ALS Bottle#:	0	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

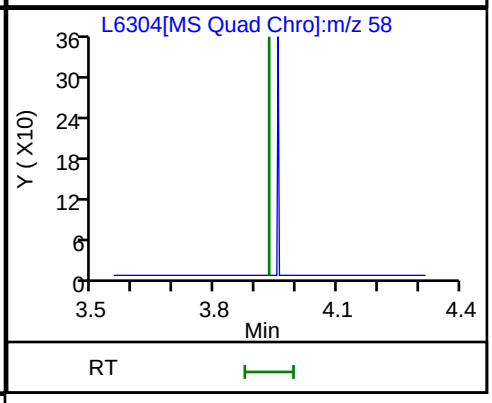
31 Acetone, CAS: 67-64-1

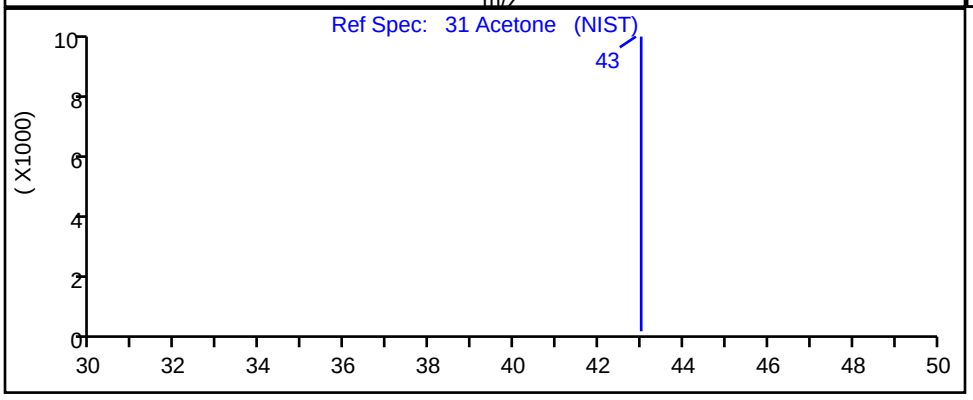
Processing Results











RT	Mass	Response	Amount
3.94	43.00	4674	1.593254
3.93	58.00	0	

Reviewer: izquierdoo, 17-Feb-2021 13:36:26

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

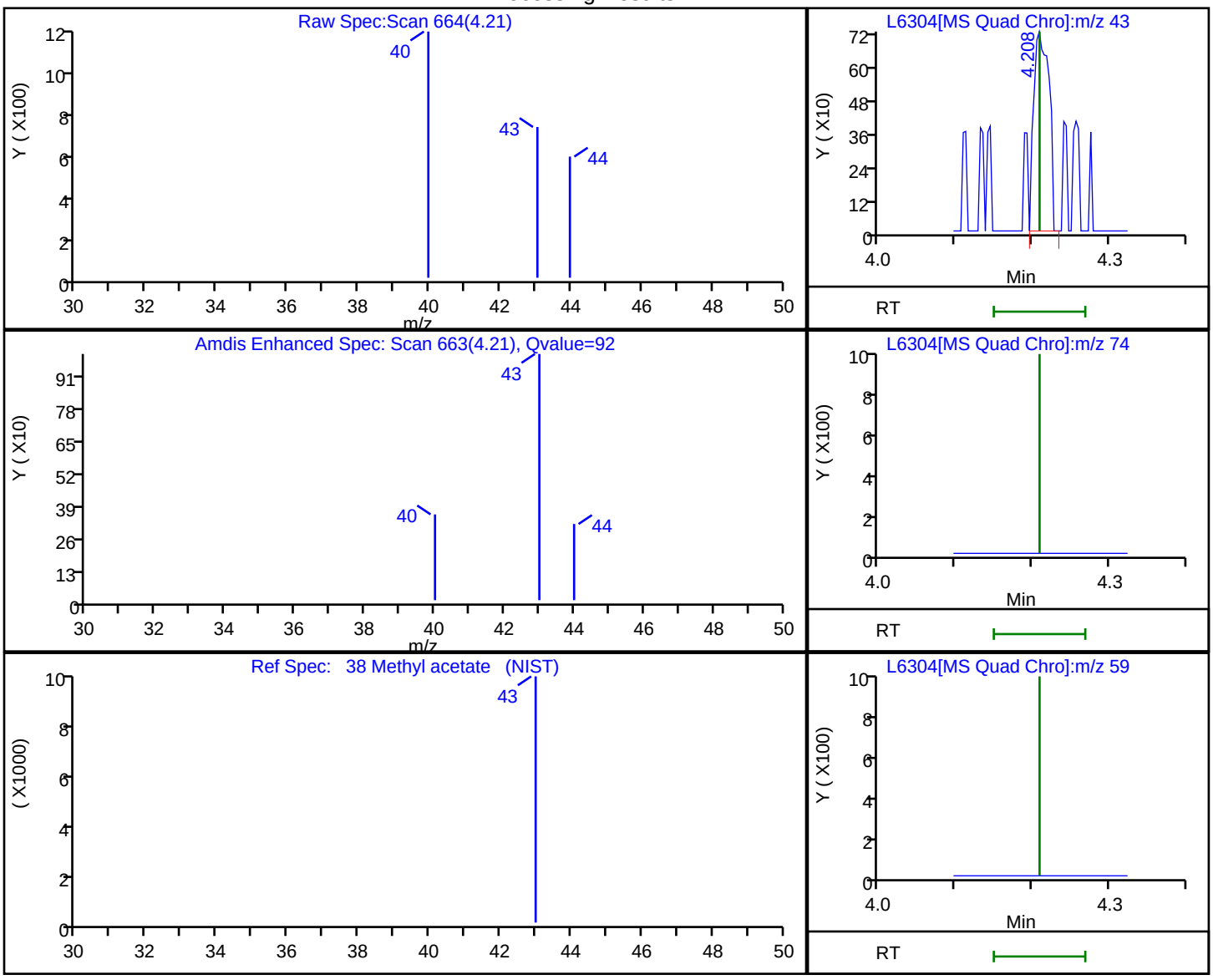
User Disabled Compound Report

Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20210217-96706.b\L6304.D				
Injection Date:	17-Feb-2021 12:19:42	Instrument ID:	HP5977L		
Lims ID:	MB				
Client ID:					
Operator ID:	OI	ALS Bottle#:	0	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

38 Methyl acetate, CAS: 79-20-9

Processing Results



RT	Mass	Response	Amount
4.21	43.00	1005	0.153836
4.21	74.00	0	
4.21	59.00	0	

Reviewer: izquierdoo, 17-Feb-2021 13:36:29

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

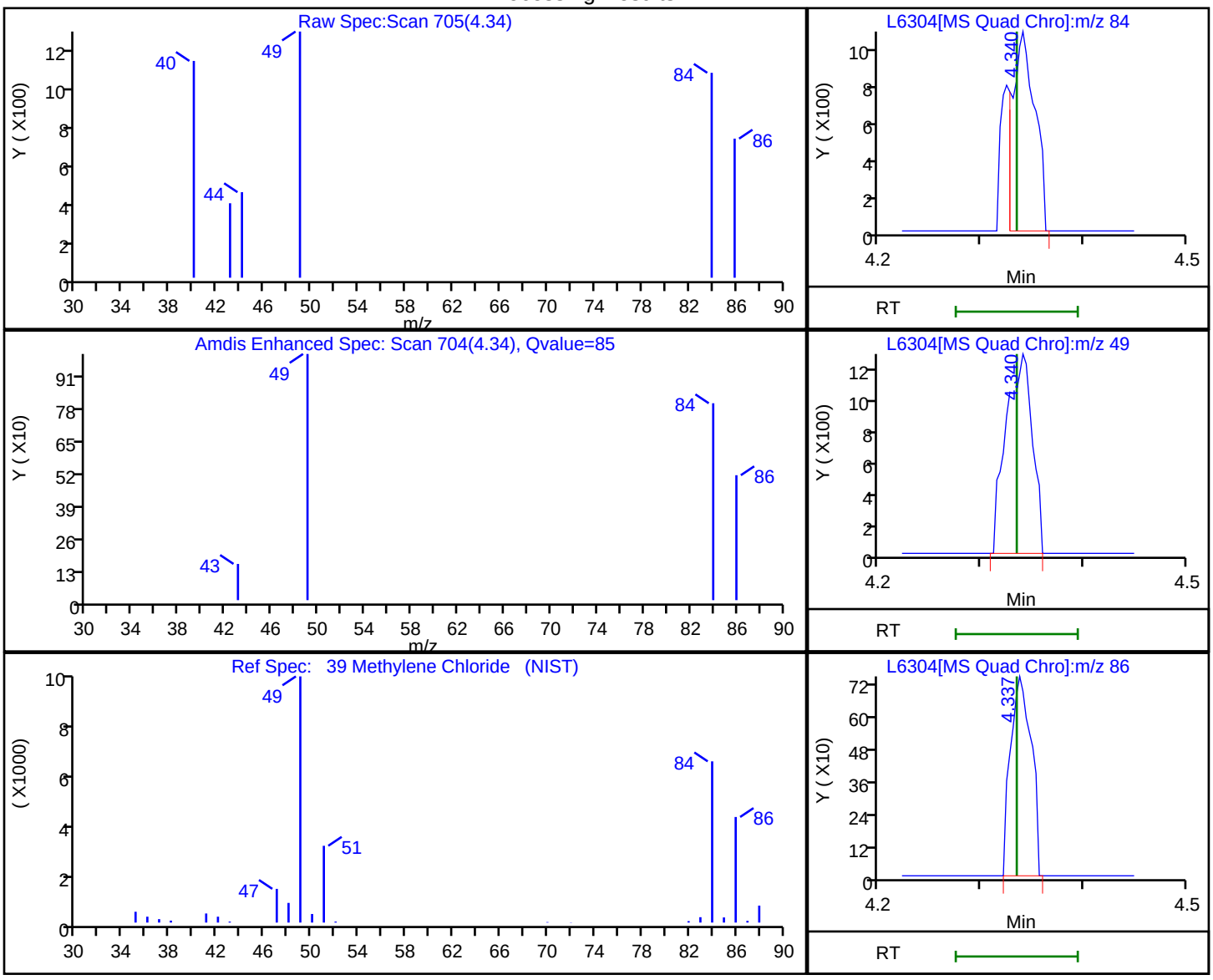
User Disabled Compound Report

Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5977L\20210217-96706.b\L6304.D				
Injection Date:	17-Feb-2021 12:19:42	Instrument ID:	HP5977L		
Lims ID:	MB				
Client ID:					
Operator ID:	OI	ALS Bottle#:	0	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	L-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS Quad		

39 Methylene Chloride, CAS: 75-09-2

Processing Results



RT	Mass	Response	Amount
4.34	84.00	1537	-0.181742
4.34	49.00	2191	
4.34	86.00	1056	

Reviewer: izquierdoo, 17-Feb-2021 13:38:36

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 480-569843/2-A

Matrix: Solid Lab File ID: F0662.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 02/17/2021 11:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 569734 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.81
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	0.65
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1.1
75-34-3	1,1-Dichloroethane	5.0	U	5.0	0.61
75-35-4	1,1-Dichloroethene	5.0	U	5.0	0.61
120-82-1	1,2,4-Trichlorobenzene	5.0	U	5.0	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.5
95-50-1	1,2-Dichlorobenzene	5.0	U	5.0	0.39
107-06-2	1,2-Dichloroethane	5.0	U	5.0	0.25
78-87-5	1,2-Dichloropropane	5.0	U	5.0	2.5
541-73-1	1,3-Dichlorobenzene	5.0	U	5.0	0.26
106-46-7	1,4-Dichlorobenzene	5.0	U	5.0	0.70
78-93-3	2-Butanone (MEK)	25	U	25	1.8
591-78-6	2-Hexanone	25	U	25	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	25	U	25	1.6
67-64-1	Acetone	25	U	25	4.2
71-43-2	Benzene	5.0	U	5.0	0.25
75-27-4	Bromodichloromethane	5.0	U	5.0	0.67
75-25-2	Bromoform	5.0	U	5.0	2.5
74-83-9	Bromomethane	5.0	U	5.0	0.45
75-15-0	Carbon disulfide	5.0	U	5.0	2.5
56-23-5	Carbon tetrachloride	5.0	U	5.0	0.48
108-90-7	Chlorobenzene	5.0	U	5.0	0.66
124-48-1	Dibromochloromethane	5.0	U	5.0	0.64
75-00-3	Chloroethane	5.0	U	5.0	1.1
67-66-3	Chloroform	5.0	U	5.0	0.31
74-87-3	Chloromethane	5.0	U	5.0	0.30
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.64
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	0.72
110-82-7	Cyclohexane	5.0	U	5.0	0.70
75-71-8	Dichlorodifluoromethane	5.0	U	5.0	0.41
100-41-4	Ethylbenzene	5.0	U	5.0	0.35
106-93-4	1,2-Dibromoethane	5.0	U	5.0	0.64
98-82-8	Isopropylbenzene	5.0	U	5.0	0.75

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 480-569843/2-A

Matrix: Solid Lab File ID: F0662.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 02/17/2021 11:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 569734 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	25	U	25	3.0
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.49
108-87-2	Methylcyclohexane	5.0	U	5.0	0.76
75-09-2	Methylene Chloride	5.0	U	5.0	2.3
100-42-5	Styrene	5.0	U	5.0	0.25
127-18-4	Tetrachloroethene	5.0	U	5.0	0.67
108-88-3	Toluene	5.0	U	5.0	0.38
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.52
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	2.2
79-01-6	Trichloroethene	5.0	U	5.0	1.1
75-69-4	Trichlorofluoromethane	5.0	U	5.0	0.47
75-01-4	Vinyl chloride	5.0	U	5.0	0.61
1330-20-7	Xylenes, Total	10	U	10	0.84

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	98		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		64-126
460-00-4	4-Bromofluorobenzene (Surr)	111		72-126
1868-53-7	Dibromofluoromethane (Surr)	105		60-140

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210217-96701.b\F0662.D
Lims ID: MB 480-569843/2-A
Client ID:
Sample Type: MB
Inject. Date: 17-Feb-2021 11:58:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0096701-008
Operator ID: WD Instrument ID: HP5973F

Method: \\chromfs\Buffalo\ChromData\HP5973F\20210217-96701.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 17-Feb-2021 14:31:54 Calib Date: 04-Feb-2021 19:06:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0423.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1657

First Level Reviewer: dahnw Date: 17-Feb-2021 14:31:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.545	5.539	0.006	98	201862	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.380	8.380	0.000	87	417419	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.704	10.703	0.001	95	405398	50.0	50.0	
$ 154 Dibromofluoromethane (Surr)	113	4.997	5.003	0.000	93	265303	50.0	52.6	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.289	5.289	0.000	99	156036	50.0	49.2	
$ 5 Toluene-d8 (Surr)	98	6.938	6.938	0.000	93	960950	50.0	48.9	
$ 6 4-Bromofluorobenzene (Surr)	174	9.596	9.596	0.000	92	327295	50.0	55.7	
10 Dichlorodifluoromethane	85		1.961					ND	
11 Chlorodifluoromethane	51		1.980					ND	
12 Chloromethane	50		2.156					ND	
13 Vinyl chloride	62		2.259					ND	
151 Butadiene	54		2.272					ND	
14 Bromomethane	94		2.564					ND	
15 Chloroethane	64		2.637					ND	
16 Dichlorofluoromethane	67		2.783					ND	
17 Trichlorofluoromethane	101		2.831					ND	
148 Ethanol	45		2.953					ND	
18 Ethyl ether	59		3.032					ND	
19 Propene oxide	58		3.111					ND	
20 Acrolein	56		3.172					ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.227					ND	
22 1,1-Dichloroethene	96		3.251					ND	
23 Acetone	43		3.282					ND	
24 Isopropyl alcohol	45		3.355					ND	
25 Iodomethane	142		3.403					ND	
26 Carbon disulfide	76		3.464					ND	
27 Methyl acetate	43		3.513					ND	
29 Acetonitrile	40		3.519					ND	
28 3-Chloro-1-propene	41		3.525					ND	
30 Methylene Chloride	84	3.634	3.628	0.006	97	19160		1.33	
31 2-Methyl-2-propanol	59		3.659					ND	U

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
32 Methyl tert-butyl ether	73		3.799					ND	
33 Acrylonitrile	53		3.817					ND	
34 trans-1,2-Dichloroethene	96		3.829					ND	
35 Hexane	57	3.987	3.987	0.000	90	6460		0.7272	
134 Halothane	117		4.109					ND	
36 Isopropyl ether	45		4.133					ND	
37 Vinyl acetate	43		4.151					ND	
39 1,1-Dichloroethane	63		4.164					ND	
38 1,1-Dimethoxyethane	75		4.200					ND	
40 2-Chloro-1,3-butadiene	53		4.225					ND	
41 Tert-butyl ethyl ether	59		4.419					ND	
43 2-Butanone (MEK)	43		4.596					ND	
42 Ethyl acetate	43		4.608					ND	
44 2,2-Dichloropropane	77		4.614					ND	
45 cis-1,2-Dichloroethene	96		4.620					ND	
46 Propionitrile	54		4.675					ND	
47 Methacrylonitrile	41		4.790					ND	
48 Chlorobromomethane	128		4.821					ND	
49 Tetrahydrofuran	42		4.845					ND	
50 Chloroform	83		4.857					ND	
51 1,1,1-Trichloroethane	97		5.021					ND	
52 Cyclohexane	56		5.064					ND	
54 1,1-Dichloropropene	75		5.143					ND	
55 Carbon tetrachloride	117		5.155					ND	
53 Isobutyl alcohol	43		5.161					ND	
147 t-Amyl alcohol	59		5.247					ND	
152 Isooctane	57		5.320					ND	
57 Benzene	78		5.332					ND	
58 1,2-Dichloroethane	62		5.350					ND	
56 Tert-amyl methyl ether	73		5.350					ND	
59 n-Heptane	43		5.447					ND	
1 1,4-Difluorobenzene	114		5.606					ND	
60 n-Butanol	56		5.715					ND	
136 2,4,4-Trimethyl-1-pentene	57		5.758					ND	
62 Trichloroethene	95		5.855					ND	
137 Ethyl acrylate	55		5.873					ND	
135 2,4,4-Trimethyl-2-pentene	97		5.946					ND	
64 Methylcyclohexane	83		6.007					ND	
65 1,2-Dichloropropane	63		6.068					ND	
63 Methyl methacrylate	41		6.080					ND	
66 1,4-Dioxane	88		6.159					ND	
67 Dibromomethane	93		6.196					ND	
68 Dichlorobromomethane	83		6.299					ND	
70 2-Nitropropane	43		6.500					ND	
69 2-Chloroethyl vinyl ether	63		6.518					ND	
71 Epichlorohydrin	57		6.622					ND	
72 cis-1,3-Dichloropropene	75		6.694					ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.786					ND	
74 Toluene	92		6.999					ND	
77 trans-1,3-Dichloropropene	75		7.205					ND	
75 Ethyl methacrylate	69		7.218					ND	
76 2-Methylthiophene	97		7.218					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
78 3-Methylthiophene	97		7.372					ND	
79 1,1,2-Trichloroethane	83		7.400					ND	
81 Tetrachloroethene	166		7.534					ND	
82 1,3-Dichloropropane	76		7.570					ND	
80 2-Hexanone	43		7.583					ND	
155 n-Butyl acetate	43		7.668					ND	
83 Chlorodibromomethane	129		7.814					ND	
84 Ethylene Dibromide	107		7.948					ND	
146 1-Chlorohexane	55		8.313					ND	
85 3-Chlorobenzotrifluoride	180		8.313					ND	
86 4-Chlorobenzotrifluoride	180		8.368					ND	
87 Chlorobenzene	112		8.416					ND	
88 Ethylbenzene	91		8.483					ND	
89 1,1,1,2-Tetrachloroethane	131		8.489					ND	
90 m-Xylene & p-Xylene	106		8.599					ND	
91 o-Xylene	106		9.031					ND	
92 Styrene	104		9.049					ND	
93 2-Chlorobenzotrifluoride	180		9.298					ND	
95 Bromoform	173		9.304					ND	
94 Isopropylbenzene	105		9.396					ND	
96 Cyclohexanone	55		9.560					ND	
97 1,1,2,2-Tetrachloroethane	83		9.736					ND	
101 Bromobenzene	156		9.767					ND	
98 trans-1,4-Dichloro-2-butene	53		9.785					ND	
100 1,2,3-Trichloropropane	110		9.791					ND	
99 N-Propylbenzene	91		9.815					ND	
103 2-Chlorotoluene	126		9.937					ND	
102 1,3,5-Trimethylbenzene	105		9.973					ND	
104 3-Chlorotoluene	126		9.992					ND	
105 4-Chlorotoluene	126		10.034					ND	
106 tert-Butylbenzene	134		10.296					ND	
107 1,2,4-Trimethylbenzene	105		10.345					ND	7
108 Pentachloroethane	167		10.357					ND	
109 sec-Butylbenzene	105		10.497					ND	
110 4-Isopropyltoluene	119		10.618					ND	
111 1,3-Dichlorobenzene	146		10.643					ND	
113 1,4-Dichlorobenzene	146		10.722					ND	7
114 Dicyclopentadiene	66		10.728					ND	U
112 1,2,3-Trimethylbenzene	105		10.740					ND	
150 Benzyl chloride	126		10.844					ND	
115 n-Butylbenzene	91		10.989					ND	
116 1,2-Dichlorobenzene	146		11.062					ND	
117 1,2-Dibromo-3-Chloropropane	75		11.732					ND	
118 1,3,5-Trichlorobenzene	180		11.872					ND	
119 1,2,4-Trichlorobenzene	180		12.395					ND	
120 Hexachlorobutadiene	225		12.504					ND	
121 Naphthalene	128		12.626					ND	
122 1,2,3-Trichlorobenzene	180		12.839					ND	
149 2-Methylnaphthalene	142		13.715					ND	
156 1-Chloro-1-fluoroethane TIC	1		0.000					ND	
144 1-Bromopropane TIC	1		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
143 Propene oxide TIC	1		0.000					ND	
S 123 Total BTEX	1		30.000					ND	7
S 124 Xylenes, Total	1		30.000					ND	7
S 125 1,2-Dichloroethene, Total	1		30.000					ND	7
S 126 1,3-Dichloropropene, Total	1		30.000					ND	7
S 157 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

F 8260 IS/SS_00117 Amount Added: 1.00 Units: uL Run Reagent

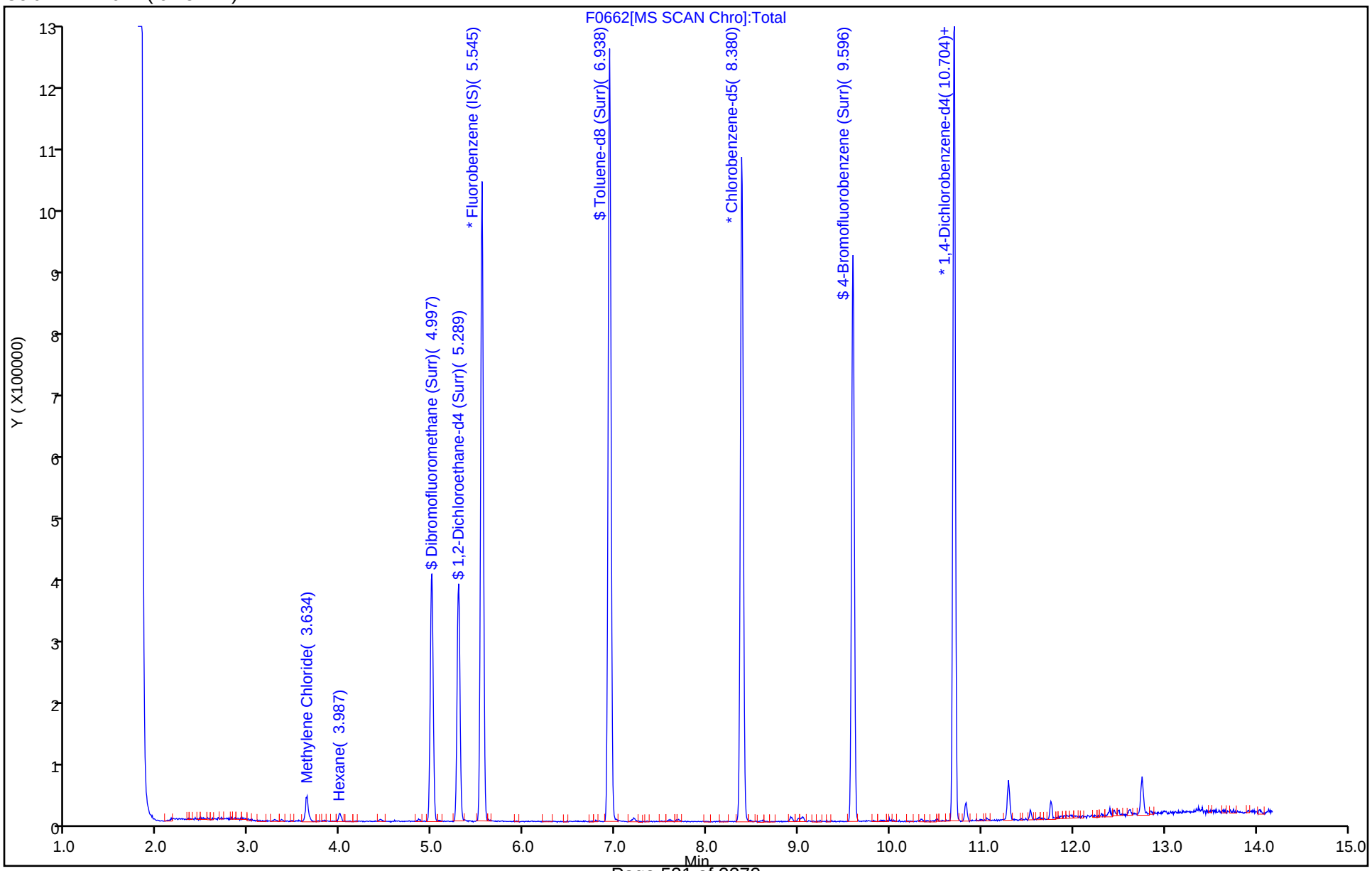
Report Date: 17-Feb-2021 14:31:55 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210217-96701.b\F0662.D

Injection Date:	17-Feb-2021 11:58:30	Instrument ID:	HP5973F	Operator ID:	WD
Lims ID:	MB 480-569843/2-A			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 480-569920/2-A

Matrix: Solid Lab File ID: F0689.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 02/18/2021 11:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 569897 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.81
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	0.65
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1.1
75-34-3	1,1-Dichloroethane	5.0	U	5.0	0.61
75-35-4	1,1-Dichloroethene	5.0	U	5.0	0.61
120-82-1	1,2,4-Trichlorobenzene	5.0	U	5.0	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.5
95-50-1	1,2-Dichlorobenzene	5.0	U	5.0	0.39
107-06-2	1,2-Dichloroethane	5.0	U	5.0	0.25
78-87-5	1,2-Dichloropropane	5.0	U	5.0	2.5
541-73-1	1,3-Dichlorobenzene	5.0	U	5.0	0.26
106-46-7	1,4-Dichlorobenzene	5.0	U	5.0	0.70
78-93-3	2-Butanone (MEK)	25	U	25	1.8
591-78-6	2-Hexanone	25	U	25	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	25	U	25	1.6
67-64-1	Acetone	25	U	25	4.2
71-43-2	Benzene	5.0	U	5.0	0.25
75-27-4	Bromodichloromethane	5.0	U	5.0	0.67
75-25-2	Bromoform	5.0	U	5.0	2.5
74-83-9	Bromomethane	5.0	U	5.0	0.45
75-15-0	Carbon disulfide	5.0	U	5.0	2.5
56-23-5	Carbon tetrachloride	5.0	U	5.0	0.48
108-90-7	Chlorobenzene	5.0	U	5.0	0.66
124-48-1	Dibromochloromethane	5.0	U	5.0	0.64
75-00-3	Chloroethane	5.0	U	5.0	1.1
67-66-3	Chloroform	5.0	U	5.0	0.31
74-87-3	Chloromethane	5.0	U	5.0	0.30
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	0.64
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	0.72
110-82-7	Cyclohexane	5.0	U	5.0	0.70
75-71-8	Dichlorodifluoromethane	5.0	U	5.0	0.41
100-41-4	Ethylbenzene	5.0	U	5.0	0.35
106-93-4	1,2-Dibromoethane	5.0	U	5.0	0.64
98-82-8	Isopropylbenzene	5.0	U	5.0	0.75

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 480-569920/2-A

Matrix: Solid Lab File ID: F0689.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 02/18/2021 11:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 569897 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	25	U	25	3.0
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.49
108-87-2	Methylcyclohexane	5.0	U	5.0	0.76
75-09-2	Methylene Chloride	4.19	J	5.0	2.3
100-42-5	Styrene	5.0	U	5.0	0.25
127-18-4	Tetrachloroethene	5.0	U	5.0	0.67
108-88-3	Toluene	5.0	U	5.0	0.38
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.52
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	2.2
79-01-6	Trichloroethene	5.0	U	5.0	1.1
75-69-4	Trichlorofluoromethane	5.0	U	5.0	0.47
75-01-4	Vinyl chloride	5.0	U	5.0	0.61
1330-20-7	Xylenes, Total	10	U	10	0.84

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	98		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		64-126
460-00-4	4-Bromofluorobenzene (Surr)	108		72-126
1868-53-7	Dibromofluoromethane (Surr)	105		60-140

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210218-96726.b\F0689.D
Lims ID: MB 480-569920/2-A
Client ID:
Sample Type: MB
Inject. Date: 18-Feb-2021 11:12:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0096726-007
Operator ID: WD Instrument ID: HP5973F

Method: \\chromfs\Buffalo\ChromData\HP5973F\20210218-96726.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Feb-2021 11:35:42 Calib Date: 04-Feb-2021 19:06:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0423.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: dahnw Date: 18-Feb-2021 11:35:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.545	5.545	0.000	98	192051	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.380	8.386	-0.006	87	399686	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.704	10.704	0.000	95	383351	50.0	50.0	
$ 154 Dibromofluoromethane (Surr)	113	4.997	4.997	0.000	92	251161	50.0	52.3	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.289	5.289	0.000	99	149509	50.0	49.5	
$ 5 Toluene-d8 (Surr)	98	6.938	6.933	0.000	93	924819	50.0	49.2	
$ 6 4-Bromofluorobenzene (Surr)	174	9.596	9.589	0.000	92	304551	50.0	54.2	
10 Dichlorodifluoromethane	85		1.967					ND	
11 Chlorodifluoromethane	51		1.980					ND	
12 Chloromethane	50		2.162					ND	
13 Vinyl chloride	62		2.266					ND	
151 Butadiene	54		2.278					ND	
14 Bromomethane	94		2.564					ND	
15 Chloroethane	64		2.643					ND	
16 Dichlorofluoromethane	67		2.789					ND	
17 Trichlorofluoromethane	101		2.831					ND	
148 Ethanol	45		2.953					ND	
18 Ethyl ether	59		3.032					ND	
19 Propene oxide	58		3.111					ND	
20 Acrolein	56		3.172					ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.227					ND	
22 1,1-Dichloroethene	96		3.245					ND	
23 Acetone	43		3.282					ND	
24 Isopropyl alcohol	45		3.355					ND	U
25 Iodomethane	142		3.403					ND	
26 Carbon disulfide	76		3.464					ND	
27 Methyl acetate	43		3.519					ND	
29 Acetonitrile	40		3.519					ND	
28 3-Chloro-1-propene	41		3.525					ND	
30 Methylene Chloride	84	3.628	3.628	0.000	97	35388		4.19	
31 2-Methyl-2-propanol	59		3.659					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
32 Methyl tert-butyl ether	73		3.799					ND	
33 Acrylonitrile	53		3.817					ND	
34 trans-1,2-Dichloroethene	96		3.829					ND	
35 Hexane	57		3.987					ND	
134 Halothane	117		4.109					ND	
36 Isopropyl ether	45		4.133					ND	
37 Vinyl acetate	43		4.151					ND	
39 1,1-Dichloroethane	63		4.164					ND	
38 1,1-Dimethoxyethane	75		4.200					ND	
40 2-Chloro-1,3-butadiene	53		4.225					ND	
41 Tert-butyl ethyl ether	59		4.419					ND	
43 2-Butanone (MEK)	43		4.602					ND	
44 2,2-Dichloropropane	77		4.608					ND	
42 Ethyl acetate	43		4.608					ND	
45 cis-1,2-Dichloroethene	96		4.620					ND	
46 Propionitrile	54		4.675					ND	
47 Methacrylonitrile	41		4.790					ND	
48 Chlorobromomethane	128		4.827					ND	
49 Tetrahydrofuran	42		4.845					ND	
50 Chloroform	83		4.857					ND	
51 1,1,1-Trichloroethane	97		5.021					ND	
52 Cyclohexane	56		5.064					ND	
54 1,1-Dichloropropene	75		5.143					ND	
55 Carbon tetrachloride	117		5.155					ND	
53 Isobutyl alcohol	43		5.161					ND	
147 t-Amyl alcohol	59		5.247					ND	
152 Isooctane	57		5.320					ND	
57 Benzene	78		5.332					ND	
58 1,2-Dichloroethane	62		5.350					ND	7
56 Tert-amyl methyl ether	73		5.350					ND	
59 n-Heptane	43		5.447					ND	
1 1,4-Difluorobenzene	114		5.606					ND	
60 n-Butanol	56		5.709					ND	
136 2,4,4-Trimethyl-1-pentene	57		5.758					ND	
62 Trichloroethene	95		5.855					ND	
137 Ethyl acrylate	55		5.873					ND	
135 2,4,4-Trimethyl-2-pentene	97		5.946					ND	
64 Methylcyclohexane	83		6.013					ND	
65 1,2-Dichloropropane	63		6.068					ND	
63 Methyl methacrylate	41		6.086					ND	
66 1,4-Dioxane	88		6.165					ND	
67 Dibromomethane	93		6.196					ND	
68 Dichlorobromomethane	83		6.305					ND	
70 2-Nitropropane	43		6.506					ND	
69 2-Chloroethyl vinyl ether	63		6.518					ND	
71 Epichlorohydrin	57		6.622					ND	
72 cis-1,3-Dichloropropene	75		6.694					ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.792					ND	
74 Toluene	92		6.999					ND	
77 trans-1,3-Dichloropropene	75		7.205					ND	
75 Ethyl methacrylate	69		7.218					ND	
76 2-Methylthiophene	97		7.218					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
78 3-Methylthiophene	97		7.372					ND	
79 1,1,2-Trichloroethane	83		7.400					ND	
81 Tetrachloroethene	166		7.534					ND	
82 1,3-Dichloropropane	76		7.570					ND	
80 2-Hexanone	43		7.583					ND	
155 n-Butyl acetate	43		7.668					ND	
83 Chlorodibromomethane	129		7.808					ND	
84 Ethylene Dibromide	107		7.948					ND	
85 3-Chlorobenzotrifluoride	180		8.313					ND	
146 1-Chlorohexane	55		8.319					ND	
86 4-Chlorobenzotrifluoride	180		8.368					ND	
87 Chlorobenzene	112		8.410					ND	
88 Ethylbenzene	91		8.483					ND	
89 1,1,1,2-Tetrachloroethane	131		8.483					ND	
90 m-Xylene & p-Xylene	106		8.599					ND	
91 o-Xylene	106		9.031					ND	
92 Styrene	104		9.049					ND	
93 2-Chlorobenzotrifluoride	180		9.298					ND	
95 Bromoform	173		9.304					ND	
94 Isopropylbenzene	105		9.402					ND	
96 Cyclohexanone	55		9.554					ND	
97 1,1,2,2-Tetrachloroethane	83		9.736					ND	
101 Bromobenzene	156		9.767					ND	
98 trans-1,4-Dichloro-2-butene	53		9.785					ND	
100 1,2,3-Trichloropropane	110		9.791					ND	
99 N-Propylbenzene	91		9.815					ND	
103 2-Chlorotoluene	126		9.937					ND	
102 1,3,5-Trimethylbenzene	105		9.973					ND	
104 3-Chlorotoluene	126		9.992					ND	
105 4-Chlorotoluene	126		10.034					ND	
106 tert-Butylbenzene	134		10.296					ND	
107 1,2,4-Trimethylbenzene	105		10.345					ND	7
108 Pentachloroethane	167		10.357					ND	
109 sec-Butylbenzene	105		10.497					ND	
110 4-Isopropyltoluene	119		10.618					ND	
111 1,3-Dichlorobenzene	146		10.643					ND	
113 1,4-Dichlorobenzene	146		10.722					ND	
114 Dicyclopentadiene	66		10.734					ND	
112 1,2,3-Trimethylbenzene	105		10.740					ND	
150 Benzyl chloride	126		10.844					ND	
115 n-Butylbenzene	91		10.989					ND	
116 1,2-Dichlorobenzene	146		11.062					ND	
117 1,2-Dibromo-3-Chloropropane	75		11.732					ND	
118 1,3,5-Trichlorobenzene	180		11.872					ND	
119 1,2,4-Trichlorobenzene	180		12.395					ND	
120 Hexachlorobutadiene	225		12.504					ND	
121 Naphthalene	128	12.626	12.626	0.000	92	6841		0.3214	
122 1,2,3-Trichlorobenzene	180		12.845					ND	
149 2-Methylnaphthalene	142	13.721	13.715	0.006	1	2237		0.1547	
143 Propene oxide TIC	1		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	
144 1-Bromopropane TIC	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
156 1-Chloro-1-fluoroethane TIC	1		0.000					ND	
S 123 Total BTEX	1		30.000					ND	7
S 124 Xylenes, Total	1		30.000					ND	7
S 125 1,2-Dichloroethene, Total	1		30.000					ND	7
S 126 1,3-Dichloropropene, Total	1		30.000					ND	7
S 157 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

F 8260 IS/SS_00117 Amount Added: 1.00 Units: uL Run Reagent

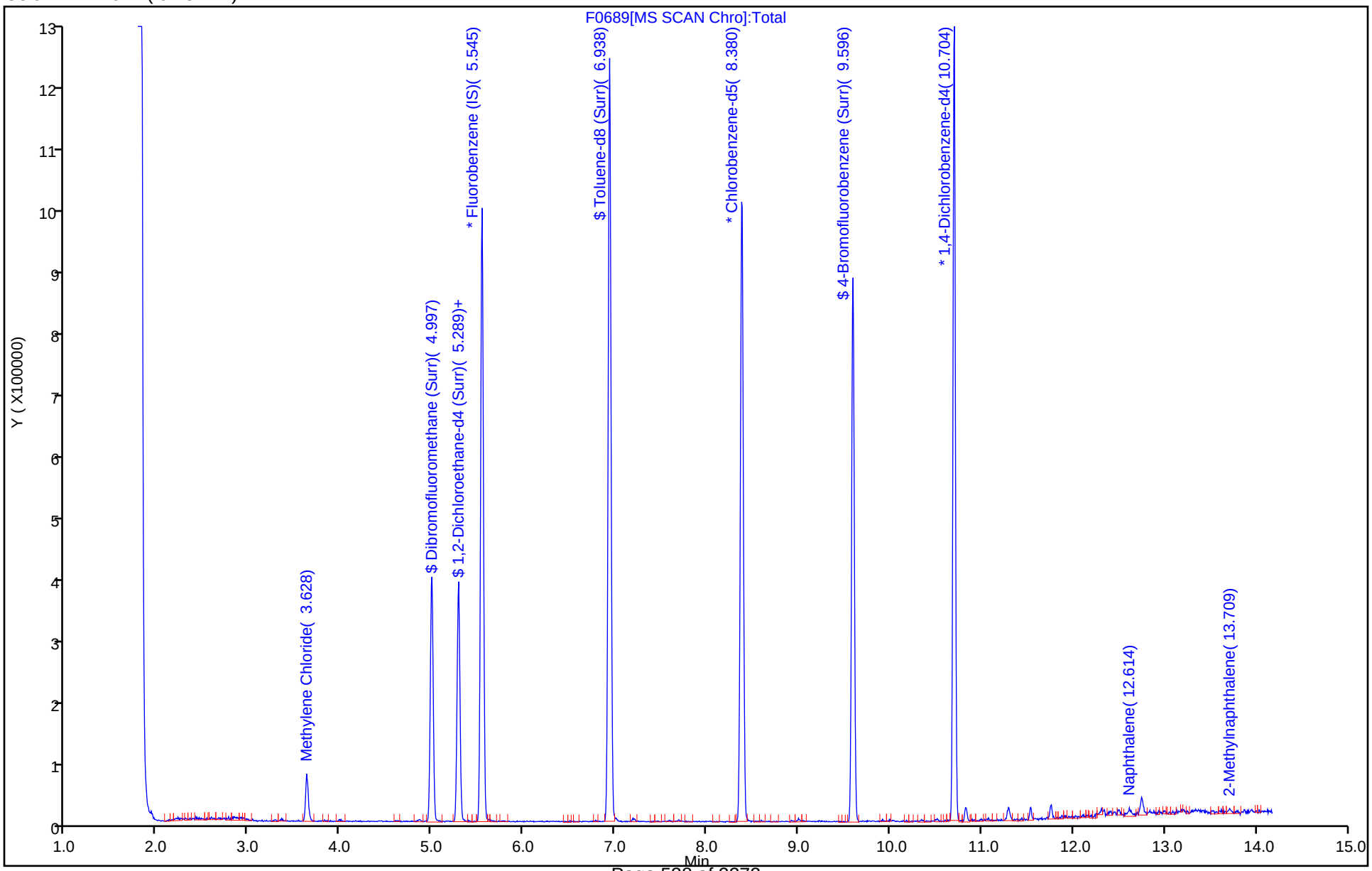
Report Date: 18-Feb-2021 11:35:42 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210218-96726.b\F0689.D

Injection Date:	18-Feb-2021 11:12:30	Instrument ID:	HP5973F	Operator ID:	WD
Lims ID:	MB 480-569920/2-A			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Report Date: 18-Feb-2021 11:35:42 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210218-96726.b\F0689.D

Injection Date: 18-Feb-2021 11:12:30 Instrument ID: HP5973F

Lims ID: MB 480-569920/2-A

Client ID:

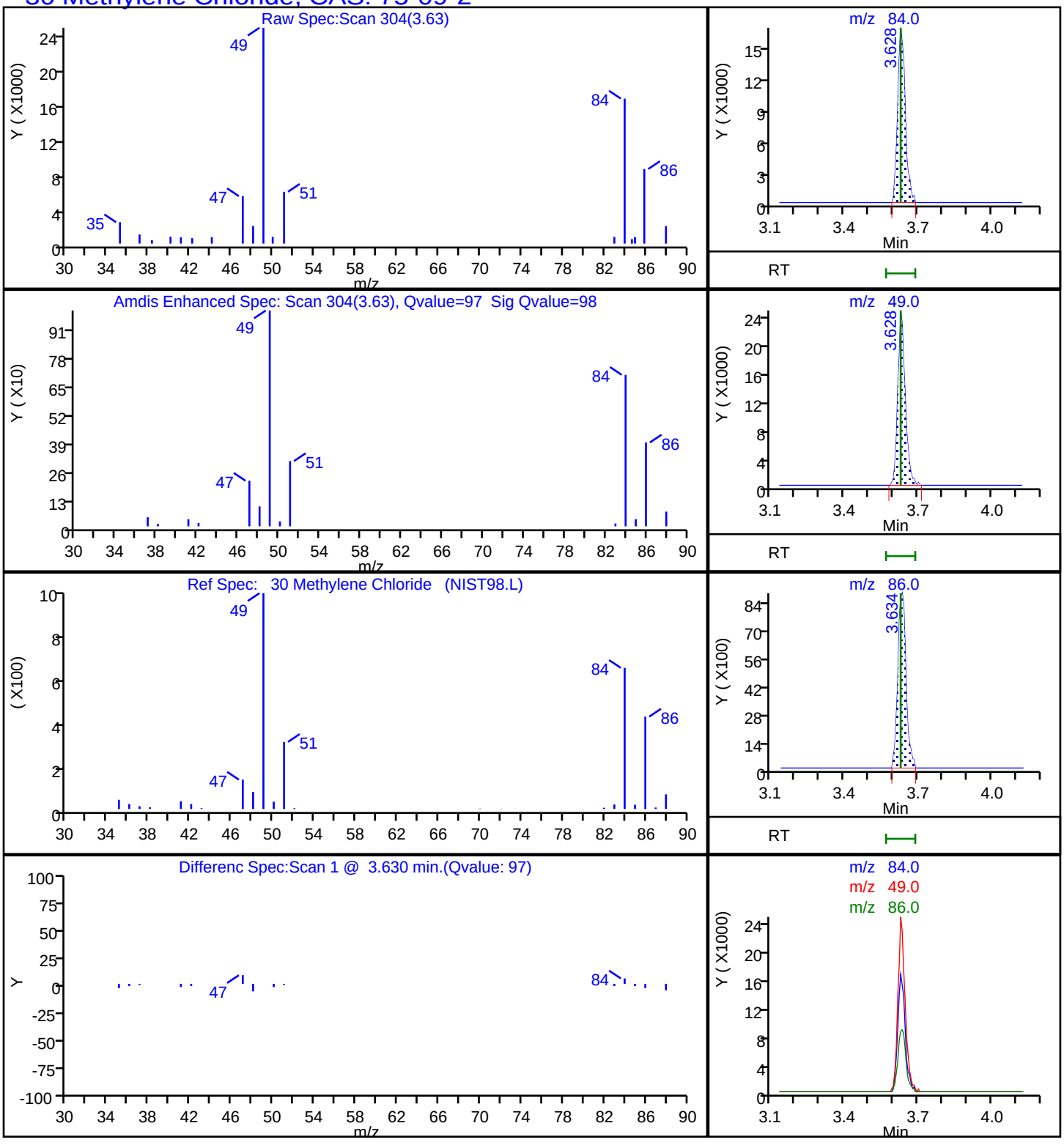
Operator ID: WD ALS Bottle#: 7 Worklist Smp#: 7

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: F-8260 SOIL Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm) Detector MS SCAN

30 Methylene Chloride, CAS: 75-09-2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-569749/5

Matrix: Water Lab File ID: L6302.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 02/17/2021 11:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 569749 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	26.0		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	26.5		1.0	0.21
79-00-5	1,1,2-Trichloroethane	26.7		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	27.0		1.0	0.31
75-34-3	1,1-Dichloroethane	26.7		1.0	0.38
75-35-4	1,1-Dichloroethene	26.9		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	26.8		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	24.5		1.0	0.39
95-50-1	1,2-Dichlorobenzene	26.3		1.0	0.79
107-06-2	1,2-Dichloroethane	24.5		1.0	0.21
78-87-5	1,2-Dichloropropane	27.5		1.0	0.72
541-73-1	1,3-Dichlorobenzene	26.2		1.0	0.78
106-46-7	1,4-Dichlorobenzene	25.9		1.0	0.84
78-93-3	2-Butanone (MEK)	112		10	1.3
591-78-6	2-Hexanone	122		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	123		5.0	2.1
67-64-1	Acetone	106		10	3.0
71-43-2	Benzene	26.6		1.0	0.41
75-27-4	Bromodichloromethane	26.8		1.0	0.39
75-25-2	Bromoform	26.5		1.0	0.26
74-83-9	Bromomethane	27.3		1.0	0.69
75-15-0	Carbon disulfide	28.6		1.0	0.19
56-23-5	Carbon tetrachloride	25.4		1.0	0.27
108-90-7	Chlorobenzene	25.8		1.0	0.75
124-48-1	Dibromochloromethane	26.3		1.0	0.32
75-00-3	Chloroethane	27.8		1.0	0.32
67-66-3	Chloroform	24.4		1.0	0.34
74-87-3	Chloromethane	24.9		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	26.6		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	27.7		1.0	0.36
110-82-7	Cyclohexane	25.8		1.0	0.18
75-71-8	Dichlorodifluoromethane	21.7		1.0	0.68
100-41-4	Ethylbenzene	26.6		1.0	0.74
106-93-4	1,2-Dibromoethane	25.8		1.0	0.73
98-82-8	Isopropylbenzene	27.5		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-569749/5

Matrix: Water Lab File ID: L6302.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 02/17/2021 11:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 569749 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	46.4		2.5	1.3
1634-04-4	Methyl tert-butyl ether	26.8		1.0	0.16
108-87-2	Methylcyclohexane	27.5		1.0	0.16
75-09-2	Methylene Chloride	26.9		1.0	0.44
100-42-5	Styrene	27.3		1.0	0.73
127-18-4	Tetrachloroethene	26.0		1.0	0.36
108-88-3	Toluene	26.9		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	27.9		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	27.6		1.0	0.37
79-01-6	Trichloroethene	26.8		1.0	0.46
75-69-4	Trichlorofluoromethane	23.9		1.0	0.88
75-01-4	Vinyl chloride	28.4		1.0	0.90
1330-20-7	Xylenes, Total	53.7		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		77-120
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120
1868-53-7	Dibromofluoromethane (Surr)	97		75-123

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210217-96706.b\L6302.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 17-Feb-2021 11:29:35 ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0096706-005
Operator ID: OI Instrument ID: HP5977L

Method: \\chromfs\Buffalo\ChromData\HP5977L\20210217-96706.b\L-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 17-Feb-2021 11:13:29 Calib Date: 18-Jan-2021 22:35:42
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5977L\20210118-96150.b\L5867.D

Column 1 : ZB-624 (0.25 mm) Det: MS Quad
Process Host: CTX1632

First Level Reviewer: izquierdoo Date: 17-Feb-2021 13:17:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 1 Fluorobenzene (IS)	70	6.485	6.482	0.003	99	126271	25.0	25.0	
* 2 Chlorobenzene-d5	117	9.443	9.443	0.000	87	531875	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	11.736	11.736	0.000	95	297336	25.0	25.0	
$ 4 Dibromofluoromethane (Surr)	113	5.910	5.910	0.000	94	170443	25.0	24.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	6.228	6.225	0.003	97	194935	25.0	23.0	
$ 6 Toluene-d8 (Surr)	98	7.948	7.945	0.003	93	635540	25.0	25.2	
$ 7 4-Bromofluorobenzene (Surr)	174	10.652	10.652	0.000	99	215812	25.0	23.2	
10 Dichlorodifluoromethane	85	2.170	2.170	0.000	99	208158	25.0	21.7	
13 Chloromethane	50	2.437	2.434	0.003	99	216755	25.0	24.9	
14 Vinyl chloride	62	2.566	2.559	0.007	98	195494	25.0	28.4	
15 Butadiene	54	2.575	2.575	0.000	88	199526	25.0	27.2	
18 Bromomethane	94	2.958	2.958	0.000	93	133883	25.0	27.3	
19 Chloroethane	64	3.058	3.054	0.004	100	112178	25.0	27.8	
20 Dichlorofluoromethane	67	3.283	3.283	0.000	97	287372	25.0	25.2	
21 Trichlorofluoromethane	101	3.302	3.299	0.003	98	306082	25.0	23.9	
26 Ethyl ether	59	3.585	3.585	0.000	91	155005	25.0	26.6	
28 Acrolein	56	3.788	3.788	0.000	100	80531	125.0	205.2	
29 112TCTFE	101	3.807	3.807	0.000	92	158828	25.0	27.0	
30 1,1-Dichloroethene	96	3.839	3.836	0.003	97	157877	25.0	26.9	
31 Acetone	43	3.932	3.932	0.000	100	292564	125.0	106.4	
33 Iodomethane	142	4.026	4.026	0.000	98	298644	25.0	27.0	
35 Carbon disulfide	76	4.080	4.080	0.000	99	548755	25.0	28.6	
37 3-Chloro-1-propene	41	4.196	4.196	0.000	92	270789	25.0	26.9	
38 Methyl acetate	43	4.209	4.209	0.000	97	283972	50.0	46.4	
39 Methylene Chloride	84	4.334	4.334	0.000	94	191237	25.0	26.9	
40 2-Methyl-2-propanol	59	4.427	4.427	0.000	100	235220	250.0	289.5	
41 Methyl tert-butyl ether	73	4.514	4.514	0.000	95	561634	25.0	26.8	
42 trans-1,2-Dichloroethene	96	4.556	4.556	0.000	99	197153	25.0	27.9	
44 Acrylonitrile	53	4.598	4.595	0.003	98	752304	250.0	238.9	
47 Hexane	57	4.717	4.717	0.000	90	253775	25.0	26.3	
49 Vinyl acetate	43	4.955	4.955	0.000	97	828386	50.0	52.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
50 1,1-Dichloroethane	63	4.958	4.955	0.003	96	335902	25.0	26.7	
56 2,2-Dichloropropane	77	5.456	5.456	0.000	88	278575	25.0	29.1	
57 2-Butanone (MEK)	43	5.479	5.479	0.000	100	463613	125.0	112.0	
58 cis-1,2-Dichloroethene	96	5.479	5.479	0.000	82	217725	25.0	26.6	
60 Chlorobromomethane	128	5.714	5.714	0.000	90	112845	25.0	26.0	
61 Tetrahydrofuran	42	5.726	5.726	0.000	88	116421	50.0	46.0	
62 Chloroform	83	5.759	5.759	0.000	91	360973	25.0	24.4	
64 1,1,1-Trichloroethane	97	5.900	5.900	0.000	97	343661	25.0	26.0	
65 Cyclohexane	56	5.919	5.919	0.000	90	313395	25.0	25.8	
67 1,1-Dichloropropene	75	6.038	6.035	0.003	95	274478	25.0	27.3	
66 Carbon tetrachloride	117	6.038	6.038	0.000	95	314862	25.0	25.4	
69 Isobutyl alcohol	43	6.135	6.135	0.000	95	233737	625.0	680.2	
70 Benzene	78	6.247	6.244	0.003	98	753227	25.0	26.6	
72 1,2-Dichloroethane	62	6.296	6.296	0.000	98	295886	25.0	24.5	
73 n-Heptane	43	6.337	6.337	0.000	91	239465	25.0	24.7	
75 Trichloroethene	95	6.813	6.810	0.003	98	217407	25.0	26.8	
76 Methylcyclohexane	83	6.945	6.942	0.003	90	317247	25.0	27.5	
77 1,2-Dichloropropane	63	7.054	7.054	0.000	94	196189	25.0	27.5	
81 1,4-Dioxane	88	7.164	7.164	0.000	94	36879	500.0	586.9	
82 Dibromomethane	93	7.199	7.199	0.000	93	132310	25.0	26.0	
83 Dichlorobromomethane	83	7.315	7.318	-0.003	99	291650	25.0	26.8	
84 2-Chloroethyl vinyl ether	63	7.537	7.533	0.004	93	131473	25.0	26.4	
85 cis-1,3-Dichloropropene	75	7.714	7.714	0.000	96	345439	25.0	27.7	
87 4-Methyl-2-pentanone (MIBK)	43	7.820	7.820	0.000	97	1021975	125.0	123.3	
88 Toluene	92	8.013	8.013	0.000	98	521510	25.0	26.9	
90 Ethyl methacrylate	69	8.244	8.241	0.003	87	259264	25.0	27.6	
91 trans-1,3-Dichloropropene	75	8.257	8.257	0.000	98	327859	25.0	27.6	
93 1,1,2-Trichloroethane	83	8.463	8.463	0.000	93	147739	25.0	26.7	
94 Tetrachloroethene	166	8.553	8.550	0.003	97	236882	25.0	26.0	
95 1,3-Dichloropropane	76	8.633	8.633	0.000	94	305959	25.0	26.4	
96 2-Hexanone	43	8.640	8.640	0.000	96	751720	125.0	122.0	
98 Chlorodibromomethane	129	8.884	8.884	0.000	90	233815	25.0	26.3	
101 Ethylene Dibromide	107	9.019	9.019	0.000	98	193609	25.0	25.8	
103 Chlorobenzene	112	9.476	9.476	0.000	95	580231	25.0	25.8	
104 Ethylbenzene	91	9.533	9.533	0.000	98	1008434	25.0	26.6	
105 1,1,1,2-Tetrachloroethane	131	9.553	9.553	0.000	95	231239	25.0	26.9	
106 m-Xylene & p-Xylene	106	9.649	9.646	0.003	99	397766	25.0	26.7	
107 o-Xylene	106	10.086	10.086	0.000	96	385141	25.0	27.0	
109 Styrene	104	10.112	10.109	0.003	95	669790	25.0	27.3	
110 Bromoform	173	10.389	10.389	0.000	98	172187	25.0	26.5	
111 Isopropylbenzene	105	10.437	10.437	0.000	95	1041404	25.0	27.5	
112 1,1,2,2-Tetrachloroethane	83	10.810	10.810	0.000	96	257535	25.0	26.5	
113 Bromobenzene	156	10.820	10.820	0.000	93	261035	25.0	26.1	
114 N-Propylbenzene	91	10.845	10.842	0.003	98	1212831	25.0	27.7	
115 trans-1,4-Dichloro-2-butene	53	10.852	10.852	0.000	74	63769	25.0	19.7	
116 1,2,3-Trichloropropane	110	10.868	10.868	0.000	82	87670	25.0	24.9	
117 2-Chlorotoluene	126	10.974	10.977	-0.003	96	241614	25.0	27.1	
118 1,3,5-Trimethylbenzene	105	11.000	11.000	0.000	94	901040	25.0	27.5	
119 4-Chlorotoluene	91	11.077	11.077	0.000	98	770501	25.0	27.2	
120 tert-Butylbenzene	134	11.315	11.315	0.000	92	190229	25.0	27.7	
121 1,2,4-Trimethylbenzene	105	11.363	11.363	0.000	97	924501	25.0	27.5	
122 sec-Butylbenzene	105	11.511	11.511	0.000	94	1111470	25.0	27.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
123 4-Isopropyltoluene	119	11.630	11.630	0.000	97	1007895	25.0	27.7	
124 1,3-Dichlorobenzene	146	11.678	11.678	0.000	98	507989	25.0	26.2	
126 1,4-Dichlorobenzene	146	11.758	11.755	0.003	94	518434	25.0	25.9	
127 n-Butylbenzene	91	11.996	11.996	0.000	98	871804	25.0	27.9	
128 1,2-Dichlorobenzene	146	12.099	12.099	0.000	97	483983	25.0	26.3	
129 1,2-Dibromo-3-Chloropropane	75	12.775	12.775	0.000	87	56527	25.0	24.5	
130 1,2,4-Trichlorobenzene	180	13.443	13.440	0.003	95	379880	25.0	26.8	
131 Hexachlorobutadiene	225	13.533	13.533	0.000	97	193697	25.0	27.3	
132 Naphthalene	128	13.694	13.694	0.000	97	898718	25.0	25.8	
133 1,2,3-Trichlorobenzene	180	13.922	13.919	0.003	96	350205	25.0	26.5	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00202	Amount Added: 12.50	Units: uL	
GAS CORP mix_00442	Amount Added: 12.50	Units: uL	
L_8260_SURR_00023	Amount Added: 2.00	Units: uL	Run Reagent
L_8260_IS_00024	Amount Added: 2.00	Units: uL	Run Reagent

Report Date: 17-Feb-2021 13:17:56 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5977L\20210217-96706.b\L6302.D

Injection Date: 17-Feb-2021 11:29:35 Instrument ID: HP5977L

Lims ID: LCS

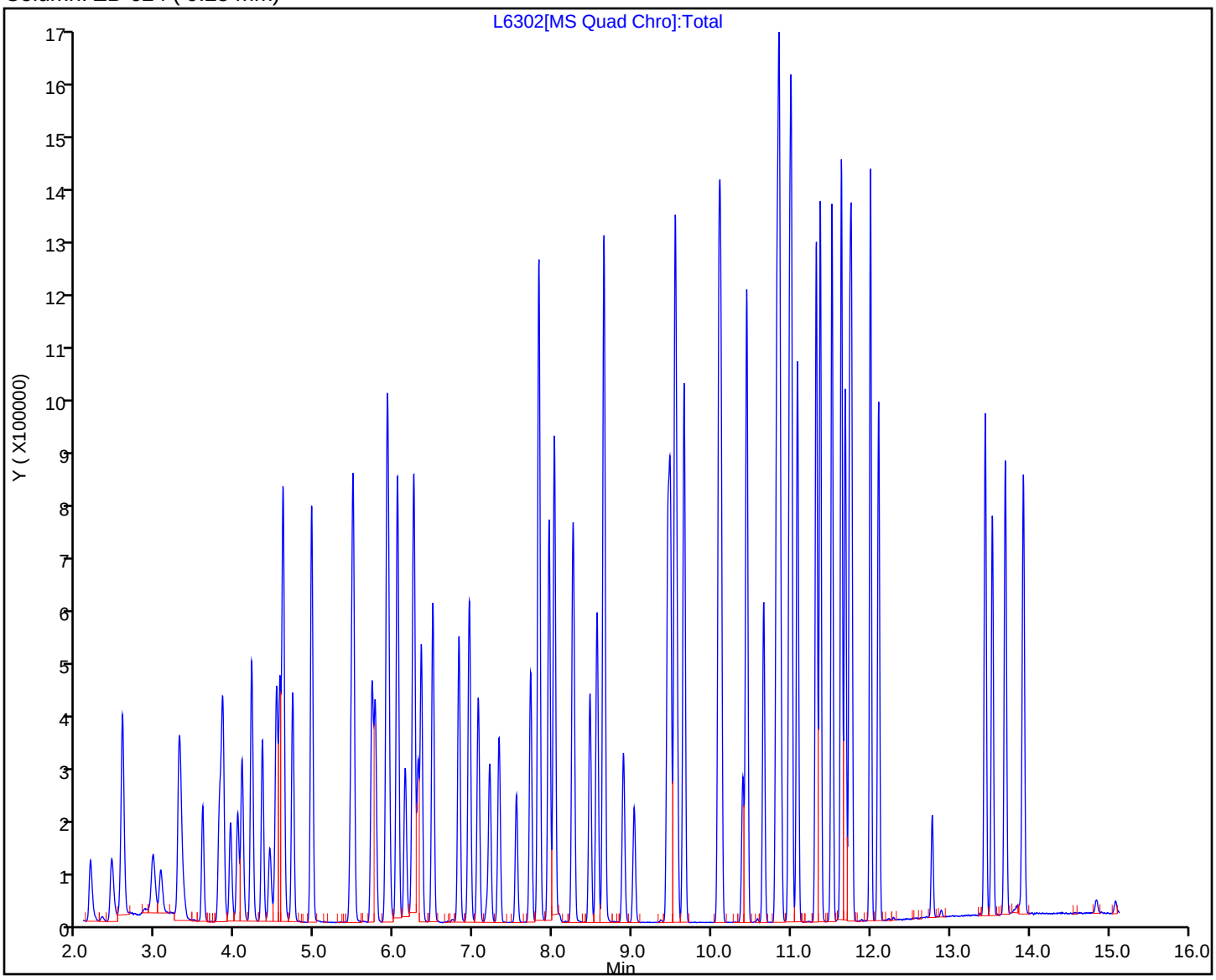
Client ID:

Operator ID: OI ALS Bottle#: 0 Worklist Smp#: 5

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: L-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-569843/1-A

Matrix: Solid Lab File ID: F0659.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 02/17/2021 10:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 569734 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	49.9		5.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	49.1		5.0	0.81
79-00-5	1,1,2-Trichloroethane	51.8		5.0	0.65
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	58.5		5.0	1.1
75-34-3	1,1-Dichloroethane	52.6		5.0	0.61
75-35-4	1,1-Dichloroethene	53.8		5.0	0.61
120-82-1	1,2,4-Trichlorobenzene	50.3		5.0	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	45.9		5.0	2.5
95-50-1	1,2-Dichlorobenzene	49.2		5.0	0.39
107-06-2	1,2-Dichloroethane	47.2		5.0	0.25
78-87-5	1,2-Dichloropropane	55.7		5.0	2.5
541-73-1	1,3-Dichlorobenzene	49.0		5.0	0.26
106-46-7	1,4-Dichlorobenzene	49.3		5.0	0.70
78-93-3	2-Butanone (MEK)	278		25	1.8
591-78-6	2-Hexanone	273		25	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	264		25	1.6
67-64-1	Acetone	258		25	4.2
71-43-2	Benzene	53.7		5.0	0.25
75-27-4	Bromodichloromethane	50.2		5.0	0.67
75-25-2	Bromoform	56.4		5.0	2.5
74-83-9	Bromomethane	44.9		5.0	0.45
75-15-0	Carbon disulfide	54.6		5.0	2.5
56-23-5	Carbon tetrachloride	54.7		5.0	0.48
108-90-7	Chlorobenzene	54.4		5.0	0.66
124-48-1	Dibromochloromethane	54.0		5.0	0.64
75-00-3	Chloroethane	46.6		5.0	1.1
67-66-3	Chloroform	50.0		5.0	0.31
74-87-3	Chloromethane	45.6		5.0	0.30
156-59-2	cis-1,2-Dichloroethene	53.2		5.0	0.64
10061-01-5	cis-1,3-Dichloropropene	56.2		5.0	0.72
110-82-7	Cyclohexane	58.3		5.0	0.70
75-71-8	Dichlorodifluoromethane	55.0		5.0	0.41
100-41-4	Ethylbenzene	51.1		5.0	0.35
106-93-4	1,2-Dibromoethane	54.7		5.0	0.64
98-82-8	Isopropylbenzene	50.3		5.0	0.75

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-569843/1-A

Matrix: Solid Lab File ID: F0659.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 02/17/2021 10:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 569734 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	107		25	3.0
1634-04-4	Methyl tert-butyl ether	51.8		5.0	0.49
108-87-2	Methylcyclohexane	59.5		5.0	0.76
75-09-2	Methylene Chloride	52.6		5.0	2.3
100-42-5	Styrene	54.8		5.0	0.25
127-18-4	Tetrachloroethene	57.3		5.0	0.67
108-88-3	Toluene	50.7		5.0	0.38
156-60-5	trans-1,2-Dichloroethene	53.9		5.0	0.52
10061-02-6	trans-1,3-Dichloropropene	51.3		5.0	2.2
79-01-6	Trichloroethene	53.7		5.0	1.1
75-69-4	Trichlorofluoromethane	53.3		5.0	0.47
75-01-4	Vinyl chloride	48.7		5.0	0.61
1330-20-7	Xylenes, Total	109		10	0.84

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		64-126
460-00-4	4-Bromofluorobenzene (Surr)	113		72-126
1868-53-7	Dibromofluoromethane (Surr)	105		60-140

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210217-96701.b\F0659.D
Lims ID: LCS 480-569843/1-A
Client ID:
Sample Type: LCS
Inject. Date: 17-Feb-2021 10:38:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0096701-005
Operator ID: WD Instrument ID: HP5973F

Method: \\chromfs\Buffalo\ChromData\HP5973F\20210217-96701.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 17-Feb-2021 14:28:43 Calib Date: 04-Feb-2021 19:06:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0423.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1657

First Level Reviewer: dahnw Date: 17-Feb-2021 14:30:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.545	5.539	0.006	98	210288	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.380	8.380	0.000	85	446703	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.697	10.703	-0.006	94	436890	50.0	50.0	
$ 154 Dibromofluoromethane (Surr)	113	4.991	5.003	-0.006	93	274802	50.0	52.3	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.289	5.289	0.000	99	162413	50.0	49.1	
$ 5 Toluene-d8 (Surr)	98	6.938	6.938	0.000	93	1044178	50.0	49.7	
$ 6 4-Bromofluorobenzene (Surr)	174	9.596	9.596	0.000	91	354299	50.0	56.4	
10 Dichlorodifluoromethane	85	1.967	1.961	0.006	99	309620	50.0	55.0	
12 Chloromethane	50	2.156	2.156	0.000	99	341969	50.0	45.6	
13 Vinyl chloride	62	2.260	2.259	0.001	98	317600	50.0	48.7	
151 Butadiene	54	2.272	2.274	0.000	92	317217	50.0	47.7	
14 Bromomethane	94	2.564	2.564	0.000	92	188667	50.0	44.9	
15 Chloroethane	64	2.637	2.637	0.000	99	175840	50.0	46.6	
16 Dichlorofluoromethane	67	2.783	2.783	0.000	97	428475	50.0	45.7	
17 Trichlorofluoromethane	101	2.831	2.831	0.000	97	422718	50.0	53.3	
18 Ethyl ether	59	3.032	3.032	0.000	95	302504	50.0	50.6	
20 Acrolein	56	3.172	3.172	0.000	98	177441	250.0	260.4	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.221	3.227	-0.006	91	274868	50.0	58.5	
22 1,1-Dichloroethene	96	3.251	3.251	0.000	95	270730	50.0	53.8	
23 Acetone	43	3.282	3.282	0.000	99	586784	250.0	258.1	
25 Iodomethane	142	3.403	3.403	0.000	98	531556	50.0	54.9	
26 Carbon disulfide	76	3.464	3.464	0.000	100	964849	50.0	54.6	
27 Methyl acetate	43	3.513	3.513	0.000	98	574345	100.0	107.2	
28 3-Chloro-1-propene	41	3.525	3.525	0.000	89	617370	50.0	51.4	
30 Methylene Chloride	84	3.628	3.628	0.000	97	356393	50.0	52.6	
31 2-Methyl-2-propanol	59	3.659	3.659	0.000	99	404564	500.0	564.7	
32 Methyl tert-butyl ether	73	3.793	3.799	-0.006	97	981908	50.0	51.8	
33 Acrylonitrile	53	3.817	3.817	0.000	99	1354771	500.0	543.4	
34 trans-1,2-Dichloroethene	96	3.829	3.829	0.000	95	334362	50.0	53.9	
35 Hexane	57	3.987	3.987	0.000	95	545318	50.0	58.9	
37 Vinyl acetate	43	4.152	4.151	0.001	97	1748492	100.0	109.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
39 1,1-Dichloroethane	63	4.164	4.164	0.000	96	624136	50.0	52.6	
43 2-Butanone (MEK)	43	4.596	4.596	0.000	99	949489	250.0	277.9	
44 2,2-Dichloropropane	77	4.608	4.614	-0.006	82	395863	50.0	49.3	
45 cis-1,2-Dichloroethene	96	4.620	4.620	0.000	84	374755	50.0	53.2	
48 Chlorobromomethane	128	4.821	4.821	0.000	97	188783	50.0	56.4	
49 Tetrahydrofuran	42	4.845	4.845	0.000	90	246715	100.0	105.5	
50 Chloroform	83	4.857	4.857	0.000	94	614222	50.0	50.0	
51 1,1,1-Trichloroethane	97	5.021	5.021	0.000	98	511155	50.0	49.9	
52 Cyclohexane	56	5.064	5.064	0.000	93	601923	50.0	58.3	
54 1,1-Dichloropropene	75	5.143	5.143	0.000	98	488448	50.0	55.4	
55 Carbon tetrachloride	117	5.155	5.155	0.000	93	474406	50.0	54.7	
53 Isobutyl alcohol	43	5.161	5.161	0.000	94	476723	1250.0	1444.7	
57 Benzene	78	5.332	5.332	0.000	97	1420404	50.0	53.7	
58 1,2-Dichloroethane	62	5.350	5.350	0.000	97	508409	50.0	47.2	
59 n-Heptane	43	5.447	5.447	0.000	96	610797	50.0	59.3	
62 Trichloroethene	95	5.855	5.855	0.000	95	355517	50.0	53.7	
64 Methylcyclohexane	83	6.013	6.007	0.006	94	591910	50.0	59.5	
65 1,2-Dichloropropane	63	6.068	6.068	0.000	93	354642	50.0	55.7	
66 1,4-Dioxane	88	6.165	6.165	0.006	97	74218	1000.0	1120.6	M
67 Dibromomethane	93	6.196	6.196	0.000	92	202972	50.0	51.1	
68 Dichlorobromomethane	83	6.305	6.299	0.006	98	459689	50.0	50.2	
69 2-Chloroethyl vinyl ether	63	6.518	6.518	0.000	93	187356	50.0	59.5	
72 cis-1,3-Dichloropropene	75	6.694	6.694	0.000	93	595311	50.0	56.2	
73 4-Methyl-2-pentanone (MIBK)	43	6.792	6.786	0.006	98	1928712	250.0	264.0	
74 Toluene	92	7.005	6.999	0.006	98	886446	50.0	50.7	
77 trans-1,3-Dichloropropene	75	7.205	7.205	0.000	95	543931	50.0	51.3	
75 Ethyl methacrylate	69	7.218	7.218	0.000	91	434057	50.0	53.9	
79 1,1,2-Trichloroethane	83	7.400	7.400	0.000	94	236552	50.0	51.8	
81 Tetrachloroethene	166	7.540	7.534	0.006	97	393079	50.0	57.3	
82 1,3-Dichloropropane	76	7.570	7.570	0.000	96	523084	50.0	52.3	
80 2-Hexanone	43	7.583	7.583	0.000	97	1355500	250.0	273.1	
83 Chlorodibromomethane	129	7.814	7.814	0.000	90	346918	50.0	54.0	
84 Ethylene Dibromide	107	7.948	7.948	0.000	100	304716	50.0	54.7	
87 Chlorobenzene	112	8.416	8.416	0.000	95	1000876	50.0	54.4	
88 Ethylbenzene	91	8.483	8.483	0.000	98	1626336	50.0	51.1	
89 1,1,1,2-Tetrachloroethane	131	8.489	8.489	0.000	65	369844	50.0	52.5	
90 m-Xylene & p-Xylene	106	8.599	8.599	0.000	99	665751	50.0	54.4	
91 o-Xylene	106	9.031	9.031	0.001	96	653506	50.0	54.8	
92 Styrene	104	9.049	9.049	0.000	94	1102192	50.0	54.8	
95 Bromoform	173	9.304	9.304	0.000	97	234148	50.0	56.4	
94 Isopropylbenzene	105	9.402	9.390	0.006	95	1721562	50.0	50.3	
97 1,1,2,2-Tetrachloroethane	83	9.736	9.731	0.000	94	375935	50.0	49.1	
101 Bromobenzene	156	9.767	9.761	0.000	93	425151	50.0	49.3	
98 trans-1,4-Dichloro-2-butene	53	9.785	9.779	0.000	70	134085	50.0	47.7	
100 1,2,3-Trichloropropane	110	9.791	9.785	0.000	81	116954	50.0	47.5	
99 N-Propylbenzene	91	9.815	9.810	0.000	99	1908368	50.0	47.5	
103 2-Chlorotoluene	126	9.937	9.931	0.000	97	392376	50.0	49.5	
102 1,3,5-Trimethylbenzene	105	9.973	9.968	0.000	93	1446099	50.0	49.3	
105 4-Chlorotoluene	126	10.040	10.029	0.006	98	393375	50.0	48.8	
106 tert-Butylbenzene	134	10.296	10.290	0.000	92	321321	50.0	52.0	
107 1,2,4-Trimethylbenzene	105	10.345	10.339	0.000	96	1459138	50.0	49.7	
109 sec-Butylbenzene	105	10.497	10.491	0.000	94	1805152	50.0	50.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
110 4-Isopropyltoluene	119	10.618	10.612	0.000	97	1581052	50.0	51.2	
111 1,3-Dichlorobenzene	146	10.643	10.637	0.000	98	804978	50.0	49.0	
113 1,4-Dichlorobenzene	146	10.722	10.716	0.000	95	821355	50.0	49.3	
115 n-Butylbenzene	91	10.989	10.983	0.000	98	1339115	50.0	49.6	
116 1,2-Dichlorobenzene	146	11.062	11.056	0.000	98	770078	50.0	49.2	
117 1,2-Dibromo-3-Chloropropane	75	11.726	11.725	-0.006	85	72953	50.0	45.9	
119 1,2,4-Trichlorobenzene	180	12.395	12.388	0.000	95	566007	50.0	50.3	
120 Hexachlorobutadiene	225	12.504	12.497	0.000	97	312170	50.0	51.4	
121 Naphthalene	128	12.626	12.619	0.000	97	1293891	50.0	53.3	
122 1,2,3-Trichlorobenzene	180	12.845	12.832	0.006	96	520368	50.0	49.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

F 8260 IS/SS_00117 Amount Added: 1.00 Units: uL Run Reagent

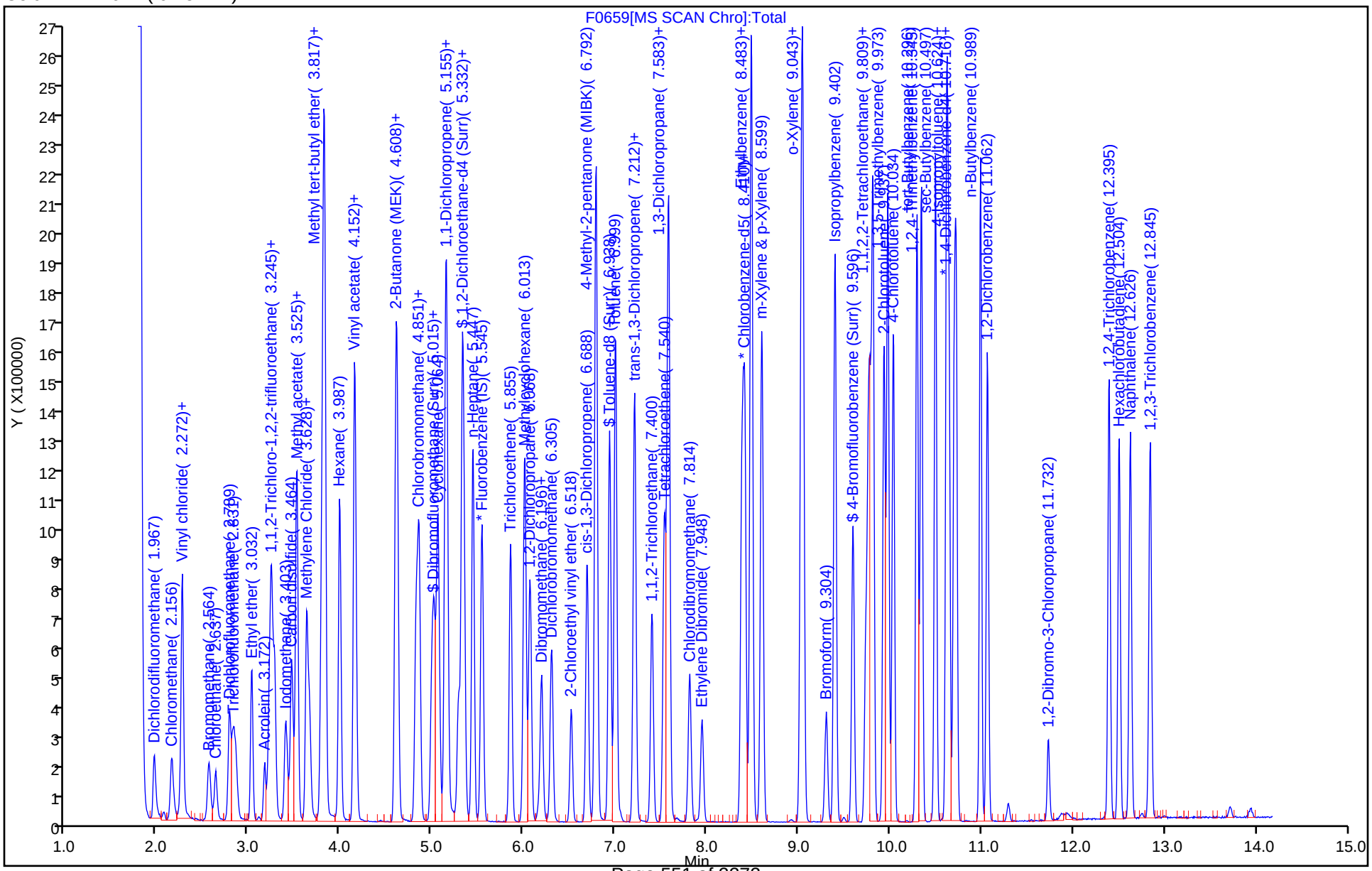
Report Date: 17-Feb-2021 14:30:12 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210217-96701.b\F0659.D

Injection Date:	17-Feb-2021 10:38:30	Instrument ID:	HP5973F	Operator ID:	WD
Lims ID:	LCS 480-569843/1-A			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-569920/1-A

Matrix: Solid Lab File ID: F0687.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 02/18/2021 10:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 569897 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	50.3		5.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	50.5		5.0	0.81
79-00-5	1,1,2-Trichloroethane	51.9		5.0	0.65
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	58.9		5.0	1.1
75-34-3	1,1-Dichloroethane	51.8		5.0	0.61
75-35-4	1,1-Dichloroethene	55.3		5.0	0.61
120-82-1	1,2,4-Trichlorobenzene	51.3		5.0	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	47.9		5.0	2.5
95-50-1	1,2-Dichlorobenzene	50.0		5.0	0.39
107-06-2	1,2-Dichloroethane	46.5		5.0	0.25
78-87-5	1,2-Dichloropropane	54.0		5.0	2.5
541-73-1	1,3-Dichlorobenzene	49.8		5.0	0.26
106-46-7	1,4-Dichlorobenzene	49.3		5.0	0.70
78-93-3	2-Butanone (MEK)	282		25	1.8
591-78-6	2-Hexanone	272		25	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	268		25	1.6
67-64-1	Acetone	261		25	4.2
71-43-2	Benzene	53.9		5.0	0.25
75-27-4	Bromodichloromethane	50.8		5.0	0.67
75-25-2	Bromoform	57.0		5.0	2.5
74-83-9	Bromomethane	46.6		5.0	0.45
75-15-0	Carbon disulfide	55.4		5.0	2.5
56-23-5	Carbon tetrachloride	55.5		5.0	0.48
108-90-7	Chlorobenzene	53.9		5.0	0.66
124-48-1	Dibromochloromethane	53.9		5.0	0.64
75-00-3	Chloroethane	45.0		5.0	1.1
67-66-3	Chloroform	50.2		5.0	0.31
74-87-3	Chloromethane	45.1		5.0	0.30
156-59-2	cis-1,2-Dichloroethene	53.2		5.0	0.64
10061-01-5	cis-1,3-Dichloropropene	55.6		5.0	0.72
110-82-7	Cyclohexane	57.6		5.0	0.70
75-71-8	Dichlorodifluoromethane	51.7		5.0	0.41
100-41-4	Ethylbenzene	51.2		5.0	0.35
106-93-4	1,2-Dibromoethane	54.2		5.0	0.64
98-82-8	Isopropylbenzene	51.2		5.0	0.75

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-569920/1-A

Matrix: Solid Lab File ID: F0687.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(g) Date Analyzed: 02/18/2021 10:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 569897 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	107		25	3.0
1634-04-4	Methyl tert-butyl ether	52.1		5.0	0.49
108-87-2	Methylcyclohexane	59.6		5.0	0.76
75-09-2	Methylene Chloride	53.6		5.0	2.3
100-42-5	Styrene	53.9		5.0	0.25
127-18-4	Tetrachloroethene	57.2		5.0	0.67
108-88-3	Toluene	51.3		5.0	0.38
156-60-5	trans-1,2-Dichloroethene	54.8		5.0	0.52
10061-02-6	trans-1,3-Dichloropropene	50.3		5.0	2.2
79-01-6	Trichloroethene	52.7		5.0	1.1
75-69-4	Trichlorofluoromethane	54.6		5.0	0.47
75-01-4	Vinyl chloride	49.5		5.0	0.61
1330-20-7	Xylenes, Total	110		10	0.84

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		64-126
460-00-4	4-Bromofluorobenzene (Surr)	110		72-126
1868-53-7	Dibromofluoromethane (Surr)	101		60-140

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210218-96726.b\F0687.D
Lims ID: LCS 480-569920/1-A
Client ID:
Sample Type: LCS
Inject. Date: 18-Feb-2021 10:19:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0096726-005
Operator ID: WD Instrument ID: HP5973F

Method: \\chromfs\Buffalo\ChromData\HP5973F\20210218-96726.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Feb-2021 10:34:42 Calib Date: 04-Feb-2021 19:06:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0423.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: dahnw Date: 18-Feb-2021 11:33:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.545	5.545	0.000	98	211965	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.380	8.386	-0.006	86	443594	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.698	10.704	-0.006	94	421921	50.0	50.0	
$ 154 Dibromofluoromethane (Surr)	113	4.997	4.997	0.000	93	268119	50.0	50.6	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.289	5.289	0.000	98	159497	50.0	47.9	
$ 5 Toluene-d8 (Surr)	98	6.938	6.938	0.000	93	1014525	50.0	48.6	
$ 6 4-Bromofluorobenzene (Surr)	174	9.597	9.596	0.001	92	343554	50.0	55.1	
10 Dichlorodifluoromethane	85	1.968	1.967	0.001	99	293197	50.0	51.7	
12 Chloromethane	50	2.162	2.162	0.000	99	341396	50.0	45.1	
13 Vinyl chloride	62	2.260	2.266	-0.006	97	325456	50.0	49.5	
151 Butadiene	54	2.272	2.278	-0.006	92	324801	50.0	48.4	
14 Bromomethane	94	2.558	2.564	-0.006	91	197205	50.0	46.6	
15 Chloroethane	64	2.637	2.643	-0.006	98	171089	50.0	45.0	
16 Dichlorofluoromethane	67	2.789	2.789	0.000	97	440890	50.0	46.7	
17 Trichlorofluoromethane	101	2.826	2.831	-0.005	98	435957	50.0	54.6	
18 Ethyl ether	59	3.026	3.032	-0.006	94	303458	50.0	50.3	
20 Acrolein	56	3.172	3.172	0.000	99	180186	250.0	262.3	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.227	3.227	0.000	93	279254	50.0	58.9	
22 1,1-Dichloroethene	96	3.245	3.245	0.000	95	280450	50.0	55.3	
23 Acetone	43	3.282	3.282	0.000	98	599027	250.0	261.4	
25 Iodomethane	142	3.403	3.403	0.000	99	550633	50.0	56.4	
26 Carbon disulfide	76	3.464	3.464	0.000	100	987108	50.0	55.4	
27 Methyl acetate	43	3.513	3.519	-0.006	98	580561	100.0	107.5	
28 3-Chloro-1-propene	41	3.525	3.525	0.000	91	631893	50.0	52.2	
30 Methylene Chloride	84	3.629	3.628	0.001	97	365887	50.0	53.6	
31 2-Methyl-2-propanol	59	3.665	3.659	0.006	99	412943	500.0	571.8	
32 Methyl tert-butyl ether	73	3.799	3.799	0.000	97	996116	50.0	52.1	
33 Acrylonitrile	53	3.817	3.817	0.000	99	1384589	500.0	551.0	
34 trans-1,2-Dichloroethene	96	3.829	3.829	0.000	95	342711	50.0	54.8	
35 Hexane	57	3.987	3.987	0.000	95	526264	50.0	56.4	
37 Vinyl acetate	43	4.152	4.151	0.001	97	1734669	100.0	107.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
39 1,1-Dichloroethane	63	4.164	4.164	0.000	96	619947	50.0	51.8	
43 2-Butanone (MEK)	43	4.602	4.602	0.000	99	971656	250.0	282.2	
44 2,2-Dichloropropane	77	4.608	4.608	0.000	86	413309	50.0	51.1	
45 cis-1,2-Dichloroethene	96	4.620	4.620	0.000	85	377645	50.0	53.2	
48 Chlorobromomethane	128	4.821	4.827	-0.006	96	190190	50.0	56.4	
49 Tetrahydrofuran	42	4.845	4.845	0.000	89	254725	100.0	108.1	
50 Chloroform	83	4.857	4.857	0.000	95	621910	50.0	50.2	
51 1,1,1-Trichloroethane	97	5.022	5.021	0.001	99	519601	50.0	50.3	
52 Cyclohexane	56	5.064	5.064	0.000	93	599583	50.0	57.6	
54 1,1-Dichloropropene	75	5.143	5.143	0.000	98	488781	50.0	55.0	
55 Carbon tetrachloride	117	5.156	5.155	0.001	93	485335	50.0	55.5	
53 Isobutyl alcohol	43	5.162	5.161	0.001	94	495682	1250.0	1490.2	
57 Benzene	78	5.332	5.332	0.000	97	1438309	50.0	53.9	
58 1,2-Dichloroethane	62	5.350	5.350	0.000	98	504460	50.0	46.5	
59 n-Heptane	43	5.448	5.447	0.001	94	586811	50.0	56.5	
62 Trichloroethene	95	5.855	5.855	0.000	94	352094	50.0	52.7	
64 Methylcyclohexane	83	6.013	6.013	0.000	92	597981	50.0	59.6	
65 1,2-Dichloropropane	63	6.068	6.068	0.000	93	346720	50.0	54.0	
66 1,4-Dioxane	88	6.165	6.165	0.000	94	76084	1000.0	1156.8	M
67 Dibromomethane	93	6.196	6.196	0.000	93	206822	50.0	51.6	
68 Dichlorobromomethane	83	6.305	6.305	0.000	98	468698	50.0	50.8	
69 2-Chloroethyl vinyl ether	63	6.518	6.518	0.000	94	186608	50.0	58.8	
72 cis-1,3-Dichloropropene	75	6.695	6.694	0.001	93	592630	50.0	55.6	
73 4-Methyl-2-pentanone (MIBK)	43	6.786	6.792	-0.006	98	1945464	250.0	268.2	
74 Toluene	92	7.005	6.999	0.006	98	890910	50.0	51.3	
77 trans-1,3-Dichloropropene	75	7.206	7.205	0.001	96	529898	50.0	50.3	
75 Ethyl methacrylate	69	7.218	7.218	0.000	91	427564	50.0	53.5	
79 1,1,2-Trichloroethane	83	7.400	7.400	0.000	93	235415	50.0	51.9	
81 Tetrachloroethene	166	7.534	7.534	0.000	97	390076	50.0	57.2	
82 1,3-Dichloropropane	76	7.571	7.570	0.001	95	508229	50.0	51.2	
80 2-Hexanone	43	7.583	7.583	0.000	97	1342282	250.0	272.4	
83 Chlorodibromomethane	129	7.814	7.808	0.006	91	343846	50.0	53.9	
84 Ethylene Dibromide	107	7.948	7.948	0.000	99	299619	50.0	54.2	
87 Chlorobenzene	112	8.410	8.410	0.000	95	984522	50.0	53.9	
88 Ethylbenzene	91	8.483	8.483	0.000	98	1619928	50.0	51.2	
89 1,1,1,2-Tetrachloroethane	131	8.489	8.483	0.006	73	367832	50.0	52.6	
90 m-Xylene & p-Xylene	106	8.599	8.599	0.000	100	665738	50.0	54.7	
91 o-Xylene	106	9.031	9.031	0.001	97	650897	50.0	55.0	
92 Styrene	104	9.049	9.049	0.000	95	1076808	50.0	53.9	
95 Bromoform	173	9.305	9.304	0.001	97	235269	50.0	57.0	
94 Isopropylbenzene	105	9.402	9.402	0.000	95	1694167	50.0	51.2	
97 1,1,2,2-Tetrachloroethane	83	9.736	9.736	0.000	94	372798	50.0	50.5	
101 Bromobenzene	156	9.767	9.767	0.000	95	425486	50.0	51.1	
98 trans-1,4-Dichloro-2-butene	53	9.785	9.785	0.000	73	130980	50.0	48.3	
100 1,2,3-Trichloropropane	110	9.791	9.791	0.000	83	117770	50.0	49.6	
99 N-Propylbenzene	91	9.816	9.815	0.001	99	1892724	50.0	48.8	
103 2-Chlorotoluene	126	9.937	9.937	0.000	97	390302	50.0	51.0	
102 1,3,5-Trimethylbenzene	105	9.974	9.973	0.001	94	1422680	50.0	50.2	
105 4-Chlorotoluene	126	10.041	10.034	0.007	98	395441	50.0	50.8	
106 tert-Butylbenzene	134	10.296	10.296	0.000	92	318320	50.0	53.3	
107 1,2,4-Trimethylbenzene	105	10.345	10.345	0.000	96	1446215	50.0	51.0	
109 sec-Butylbenzene	105	10.497	10.497	0.000	94	1792985	50.0	52.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
110 4-Isopropyltoluene	119	10.619	10.618	0.001	97	1568561	50.0	52.6	
111 1,3-Dichlorobenzene	146	10.643	10.643	0.000	98	791221	50.0	49.8	
113 1,4-Dichlorobenzene	146	10.722	10.722	0.000	95	791957	50.0	49.3	
115 n-Butylbenzene	91	10.990	10.989	0.001	98	1320778	50.0	50.7	
116 1,2-Dichlorobenzene	146	11.063	11.062	0.001	98	755826	50.0	50.0	
117 1,2-Dibromo-3-Chloropropane	75	11.732	11.732	0.000	85	73504	50.0	47.9	
119 1,2,4-Trichlorobenzene	180	12.395	12.395	0.000	93	557256	50.0	51.3	
120 Hexachlorobutadiene	225	12.504	12.504	0.000	97	305957	50.0	52.1	
121 Naphthalene	128	12.626	12.626	0.000	97	1281076	50.0	54.7	
122 1,2,3-Trichlorobenzene	180	12.845	12.845	0.000	96	508447	50.0	49.6	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

F 8260 IS/SS_00117 Amount Added: 1.00 Units: uL Run Reagent

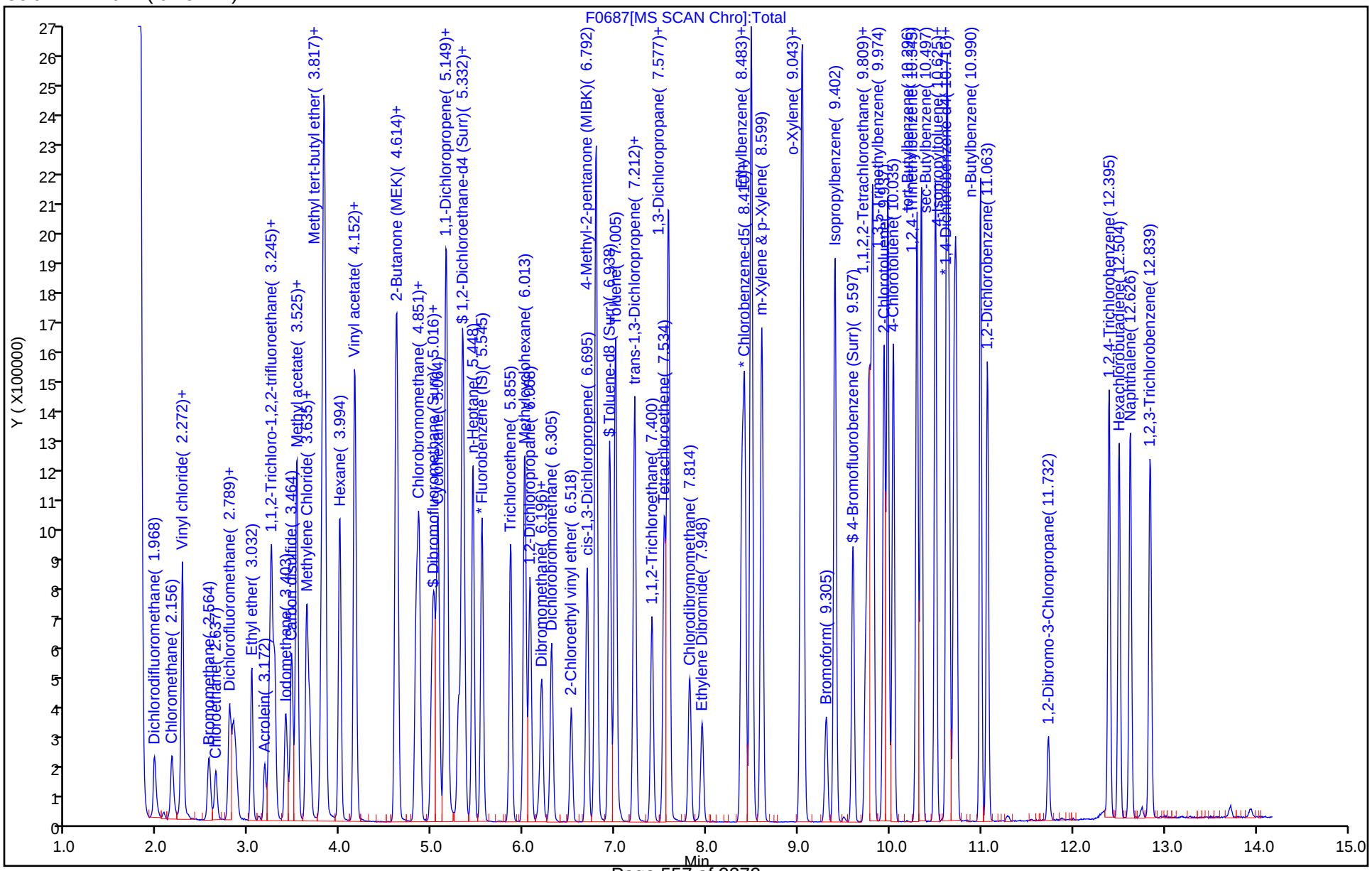
Report Date: 18-Feb-2021 11:33:54 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210218-96726.b\F0687.D

Injection Date:	18-Feb-2021 10:19:30	Instrument ID:	HP5973F	Operator ID:	WD
Lims ID:	LCS 480-569920/1-A			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12A (4-6) MS Lab Sample ID: 480-181249-3 MS

Matrix: Solid Lab File ID: F0691.D

Analysis Method: 8260C Date Collected: 02/12/2021 13:45

Sample wt/vol: 5.06(g) Date Analyzed: 02/18/2021 12:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 20.4 Level: (low/med) Low

Analysis Batch No.: 569897 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	57.7		6.2	0.45
79-34-5	1,1,2,2-Tetrachloroethane	40.2		6.2	1.0
79-00-5	1,1,2-Trichloroethane	48.7		6.2	0.81
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	64.9		6.2	1.4
75-34-3	1,1-Dichloroethane	58.1		6.2	0.76
75-35-4	1,1-Dichloroethene	60.8		6.2	0.76
120-82-1	1,2,4-Trichlorobenzene	37.6		6.2	0.38
96-12-8	1,2-Dibromo-3-Chloropropane	34.9		6.2	3.1
95-50-1	1,2-Dichlorobenzene	47.2		6.2	0.49
107-06-2	1,2-Dichloroethane	46.5		6.2	0.31
78-87-5	1,2-Dichloropropane	57.9		6.2	3.1
541-73-1	1,3-Dichlorobenzene	48.3		6.2	0.32
106-46-7	1,4-Dichlorobenzene	49.0		6.2	0.87
78-93-3	2-Butanone (MEK)	208		31	2.3
591-78-6	2-Hexanone	199		31	3.1
108-10-1	4-Methyl-2-pentanone (MIBK)	199		31	2.0
67-64-1	Acetone	215		31	5.2
71-43-2	Benzene	59.0		6.2	0.30
75-27-4	Bromodichloromethane	52.3		6.2	0.83
75-25-2	Bromoform	45.9		6.2	3.1
74-83-9	Bromomethane	57.2		6.2	0.56
75-15-0	Carbon disulfide	60.0		6.2	3.1
56-23-5	Carbon tetrachloride	59.7		6.2	0.60
108-90-7	Chlorobenzene	58.9		6.2	0.82
124-48-1	Dibromochloromethane	51.5		6.2	0.79
75-00-3	Chloroethane	58.4		6.2	1.4
67-66-3	Chloroform	55.0		6.2	0.38
74-87-3	Chloromethane	57.4		6.2	0.38
156-59-2	cis-1,2-Dichloroethene	58.0		6.2	0.79
10061-01-5	cis-1,3-Dichloropropene	55.0		6.2	0.89
110-82-7	Cyclohexane	63.1		6.2	0.87
75-71-8	Dichlorodifluoromethane	64.9		6.2	0.51
100-41-4	Ethylbenzene	53.9		6.2	0.43
106-93-4	1,2-Dibromoethane	48.0		6.2	0.80
98-82-8	Isopropylbenzene	55.0		6.2	0.94

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12A (4-6) MS Lab Sample ID: 480-181249-3 MS

Matrix: Solid Lab File ID: F0691.D

Analysis Method: 8260C Date Collected: 02/12/2021 13:45

Sample wt/vol: 5.06(g) Date Analyzed: 02/18/2021 12:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 20.4 Level: (low/med) Low

Analysis Batch No.: 569897 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	89.5		31	3.8
1634-04-4	Methyl tert-butyl ether	50.1		6.2	0.61
108-87-2	Methylcyclohexane	58.1		6.2	0.94
75-09-2	Methylene Chloride	65.6		6.2	2.9
100-42-5	Styrene	52.9		6.2	0.31
127-18-4	Tetrachloroethene	60.9		6.2	0.83
108-88-3	Toluene	56.6		6.2	0.47
156-60-5	trans-1,2-Dichloroethene	60.3		6.2	0.64
10061-02-6	trans-1,3-Dichloropropene	47.7		6.2	2.7
79-01-6	Trichloroethene	57.8		6.2	1.4
75-69-4	Trichlorofluoromethane	67.1		6.2	0.59
75-01-4	Vinyl chloride	60.5		6.2	0.76
1330-20-7	Xylenes, Total	113		12	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		64-126
460-00-4	4-Bromofluorobenzene (Surr)	109		72-126
1868-53-7	Dibromofluoromethane (Surr)	102		60-140

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210218-96726.b\F0691.D
Lims ID: 480-181249-B-3-F MS
Client ID: SB-12A (4-6)
Sample Type: MS
Inject. Date: 18-Feb-2021 12:05:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-181249-B-3-F MS
Misc. Info.: 480-0096726-009
Operator ID: WD Instrument ID: HP5973F

Method: \\chromfs\Buffalo\ChromData\HP5973F\20210218-96726.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Feb-2021 12:28:59 Calib Date: 04-Feb-2021 19:06:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0423.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: dahnw Date: 18-Feb-2021 12:29:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.545	5.545	0.000	98	201663	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.380	8.386	-0.006	87	426563	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.704	10.704	0.000	94	389738	50.0	50.0	
$ 154 Dibromofluoromethane (Surr)	113	4.991	4.997	-0.006	93	257376	50.0	51.1	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.283	5.289	-0.006	98	136541	50.0	43.1	
$ 5 Toluene-d8 (Surr)	98	6.938	6.933	0.000	93	1003686	50.0	50.0	
$ 6 4-Bromofluorobenzene (Surr)	174	9.596	9.590	0.000	92	327656	50.0	54.6	
10 Dichlorodifluoromethane	85	1.968	1.967	0.001	98	282100	50.0	52.3	
12 Chloromethane	50	2.156	2.162	-0.006	99	332433	50.0	46.2	
13 Vinyl chloride	62	2.260	2.266	-0.006	98	305150	50.0	48.7	
14 Bromomethane	94	2.564	2.564	0.000	92	185582	50.0	46.0	
15 Chloroethane	64	2.643	2.643	0.000	99	170225	50.0	47.1	
17 Trichlorofluoromethane	101	2.838	2.831	0.007	97	410717	50.0	54.0	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.233	3.227	0.006	91	235439	50.0	52.2	
22 1,1-Dichloroethene	96	3.251	3.245	0.006	98	235845	50.0	48.9	
23 Acetone	43	3.282	3.282	0.000	98	377221	250.0	173.0	
26 Carbon disulfide	76	3.464	3.464	0.000	100	818450	50.0	48.3	
27 Methyl acetate	43	3.519	3.519	0.000	99	370249	100.0	72.0	
30 Methylene Chloride	84	3.628	3.628	0.000	98	343242	50.0	52.8	
32 Methyl tert-butyl ether	73	3.799	3.799	0.000	96	733312	50.0	40.3	
34 trans-1,2-Dichloroethene	96	3.829	3.829	0.000	97	289147	50.0	48.6	
39 1,1-Dichloroethane	63	4.164	4.164	0.000	97	532680	50.0	46.8	
43 2-Butanone (MEK)	43	4.602	4.602	0.000	99	549899	250.0	167.9	
45 cis-1,2-Dichloroethene	96	4.620	4.620	0.000	84	315564	50.0	46.7	
50 Chloroform	83	4.857	4.857	0.000	95	521841	50.0	44.3	
51 1,1,1-Trichloroethane	97	5.022	5.021	0.001	98	456114	50.0	46.4	
52 Cyclohexane	56	5.064	5.064	0.000	93	503029	50.0	50.8	
55 Carbon tetrachloride	117	5.155	5.155	0.000	94	400177	50.0	48.1	
57 Benzene	78	5.332	5.332	0.000	97	1205025	50.0	47.5	
58 1,2-Dichloroethane	62	5.350	5.350	0.000	97	385952	50.0	37.4	
62 Trichloroethene	95	5.855	5.855	0.000	95	295537	50.0	46.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
64 Methylcyclohexane	83	6.013	6.013	0.000	93	446345	50.0	46.8	
65 1,2-Dichloropropane	63	6.068	6.068	0.000	92	284774	50.0	46.7	
68 Dichlorobromomethane	83	6.305	6.305	0.000	98	369729	50.0	42.1	
72 cis-1,3-Dichloropropene	75	6.695	6.694	0.001	93	449428	50.0	44.3	
73 4-Methyl-2-pentanone (MIBK)	43	6.792	6.787	0.000	98	1119994	250.0	160.5	
74 Toluene	92	7.005	6.994	0.006	98	760768	50.0	45.5	
77 trans-1,3-Dichloropropene	75	7.206	7.200	0.001	97	388526	50.0	38.4	
79 1,1,2-Trichloroethane	83	7.400	7.395	0.000	93	170764	50.0	39.2	
81 Tetrachloroethene	166	7.534	7.529	0.000	99	321530	50.0	49.1	
80 2-Hexanone	43	7.583	7.577	0.000	98	760117	250.0	160.4	
83 Chlorodibromomethane	129	7.814	7.802	0.006	89	254490	50.0	41.5	
84 Ethylene Dibromide	107	7.948	7.942	0.000	97	205309	50.0	38.6	
87 Chlorobenzene	112	8.416	8.410	0.006	94	832411	50.0	47.4	
88 Ethylbenzene	91	8.483	8.477	0.000	99	1320500	50.0	43.4	
90 m-Xylene & p-Xylene	106	8.599	8.592	0.000	100	526022		45.0	
91 o-Xylene	106	9.031	9.024	0.001	96	518659		45.6	
92 Styrene	104	9.049	9.042	0.000	95	817426	50.0	42.6	
95 Bromoform	173	9.304	9.298	0.000	97	146620	50.0	37.0	
94 Isopropylbenzene	105	9.402	9.402	0.000	96	1353259	50.0	44.3	
97 1,1,2,2-Tetrachloroethane	83	9.736	9.736	0.000	96	221092	50.0	32.4	
111 1,3-Dichlorobenzene	146	10.643	10.643	0.000	97	569732	50.0	38.9	
113 1,4-Dichlorobenzene	146	10.722	10.722	0.000	96	585863	50.0	39.4	
116 1,2-Dichlorobenzene	146	11.063	11.062	0.001	98	530180	50.0	38.0	
117 1,2-Dibromo-3-Chloropropane	75	11.726	11.732	-0.006	86	39790	50.0	28.1	
119 1,2,4-Trichlorobenzene	180	12.395	12.395	0.000	95	303665	50.0	30.3	
S 124 Xylenes, Total	1				0			90.5	

QC Flag Legend

Processing Flags

Reagents:

F 8260 IS/SS_00117 Amount Added: 1.00 Units: uL Run Reagent

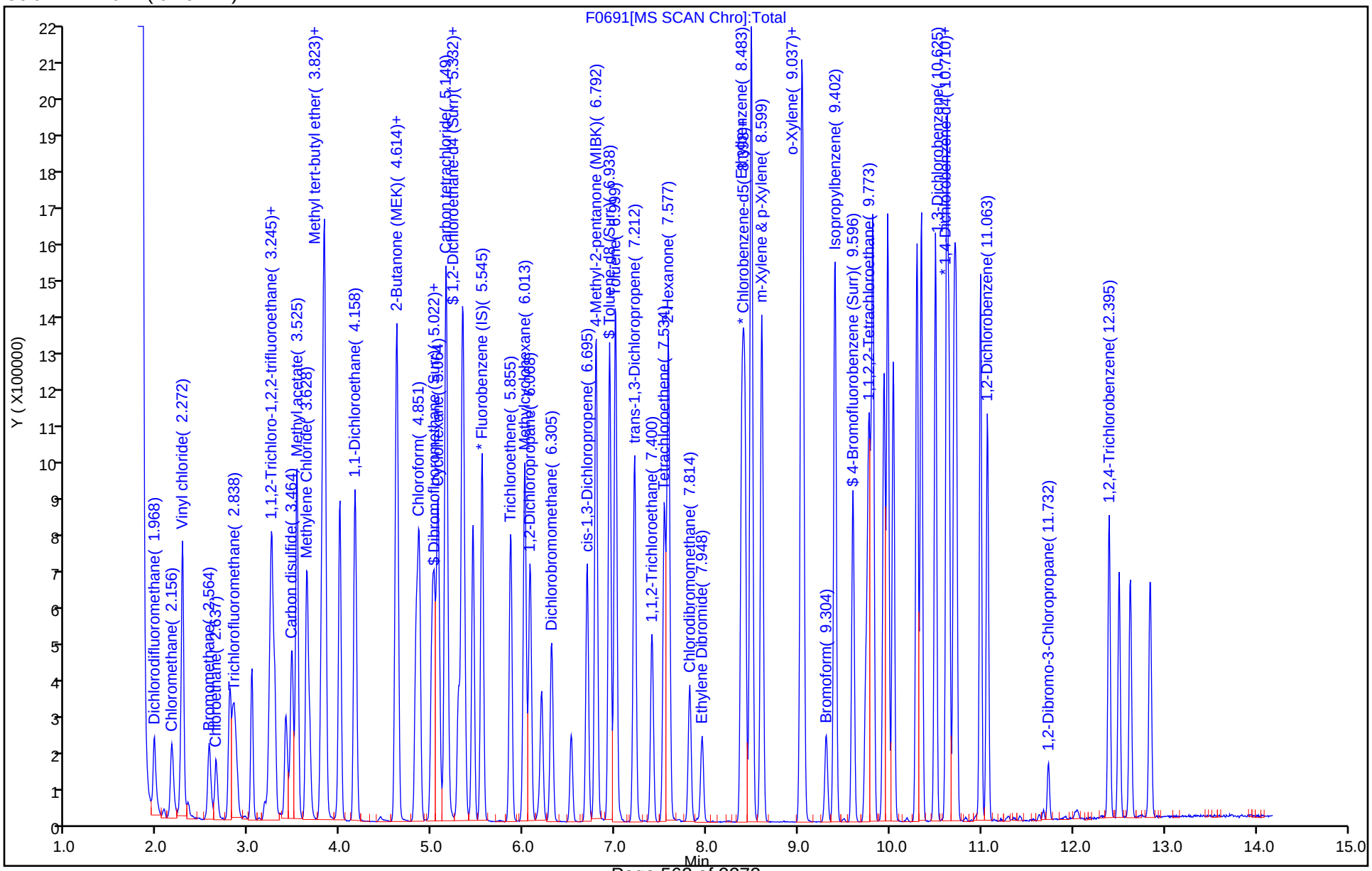
Report Date: 18-Feb-2021 12:29:37 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210218-96726.b\F0691.D

Injection Date:	18-Feb-2021 12:05:30	Instrument ID:	HP5973F	Operator ID:	WD
Lims ID:	480-181249-B-3-F MS			Worklist Smp#:	9
Client ID:	SB-12A (4-6)				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12A (4-6) MSD | Lab Sample ID: 480-181249-3 MSD

Matrix: Solid | Lab File ID: F0692.D

Analysis Method: 8260C | Date Collected: 02/12/2021 13:45

Sample wt/vol: 5.07(g) | Date Analyzed: 02/18/2021 12:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 20.4 | Level: (low/med) Low

Analysis Batch No.: 569897 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	54.1		6.2	0.45
79-34-5	1,1,2,2-Tetrachloroethane	38.2		6.2	1.0
79-00-5	1,1,2-Trichloroethane	48.2		6.2	0.81
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	61.3		6.2	1.4
75-34-3	1,1-Dichloroethane	55.8		6.2	0.76
75-35-4	1,1-Dichloroethene	58.6		6.2	0.76
120-82-1	1,2,4-Trichlorobenzene	33.8		6.2	0.38
96-12-8	1,2-Dibromo-3-Chloropropane	31.8		6.2	3.1
95-50-1	1,2-Dichlorobenzene	43.5		6.2	0.48
107-06-2	1,2-Dichloroethane	45.1		6.2	0.31
78-87-5	1,2-Dichloropropane	55.8		6.2	3.1
541-73-1	1,3-Dichlorobenzene	45.4		6.2	0.32
106-46-7	1,4-Dichlorobenzene	44.9		6.2	0.87
78-93-3	2-Butanone (MEK)	194		31	2.3
591-78-6	2-Hexanone	188		31	3.1
108-10-1	4-Methyl-2-pentanone (MIBK)	189		31	2.0
67-64-1	Acetone	192		31	5.2
71-43-2	Benzene	56.8		6.2	0.30
75-27-4	Bromodichloromethane	50.6		6.2	0.83
75-25-2	Bromoform	46.5		6.2	3.1
74-83-9	Bromomethane	53.9		6.2	0.56
75-15-0	Carbon disulfide	56.9		6.2	3.1
56-23-5	Carbon tetrachloride	57.8		6.2	0.60
108-90-7	Chlorobenzene	56.8		6.2	0.82
124-48-1	Dibromochloromethane	49.3		6.2	0.79
75-00-3	Chloroethane	53.4		6.2	1.4
67-66-3	Chloroform	53.4		6.2	0.38
74-87-3	Chloromethane	52.8		6.2	0.37
156-59-2	cis-1,2-Dichloroethene	55.2		6.2	0.79
10061-01-5	cis-1,3-Dichloropropene	54.2		6.2	0.89
110-82-7	Cyclohexane	59.2		6.2	0.87
75-71-8	Dichlorodifluoromethane	59.6		6.2	0.51
100-41-4	Ethylbenzene	52.0		6.2	0.43
106-93-4	1,2-Dibromoethane	47.2		6.2	0.80
98-82-8	Isopropylbenzene	49.3		6.2	0.93

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12A (4-6) MSD Lab Sample ID: 480-181249-3 MSD

Matrix: Solid Lab File ID: F0692.D

Analysis Method: 8260C Date Collected: 02/12/2021 13:45

Sample wt/vol: 5.07(g) Date Analyzed: 02/18/2021 12:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 20.4 Level: (low/med) Low

Analysis Batch No.: 569897 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	86.8		31	3.7
1634-04-4	Methyl tert-butyl ether	48.0		6.2	0.61
108-87-2	Methylcyclohexane	54.9		6.2	0.94
75-09-2	Methylene Chloride	63.0		6.2	2.9
100-42-5	Styrene	52.2		6.2	0.31
127-18-4	Tetrachloroethene	56.5		6.2	0.83
108-88-3	Toluene	54.4		6.2	0.47
156-60-5	trans-1,2-Dichloroethene	58.4		6.2	0.64
10061-02-6	trans-1,3-Dichloropropene	46.4		6.2	2.7
79-01-6	Trichloroethene	55.5		6.2	1.4
75-69-4	Trichlorofluoromethane	63.5		6.2	0.59
75-01-4	Vinyl chloride	56.2		6.2	0.76
1330-20-7	Xylenes, Total	110		12	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		71-125
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		64-126
460-00-4	4-Bromofluorobenzene (Surr)	111		72-126
1868-53-7	Dibromofluoromethane (Surr)	103		60-140

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210218-96726.b\F0692.D
Lims ID: 480-181249-B-3-G MSD
Client ID: SB-12A (4-6)
Sample Type: MSD
Inject. Date: 18-Feb-2021 12:31:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-181249-B-3-G MSD
Misc. Info.: 480-0096726-010
Operator ID: WD Instrument ID: HP5973F

Method: \\chromfs\Buffalo\ChromData\HP5973F\20210218-96726.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Feb-2021 10:45:59 Calib Date: 04-Feb-2021 19:06:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973F\20210204-96467.b\F0423.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: dahnw Date: 18-Feb-2021 12:59:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.545	5.545	0.000	99	207860	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.380	8.386	-0.006	86	443193	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.704	10.704	0.000	94	431540	50.0	50.0	
$ 154 Dibromofluoromethane (Surr)	113	4.997	4.997	0.000	93	268737	50.0	51.7	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.289	5.289	0.000	99	141458	50.0	43.3	
$ 5 Toluene-d8 (Surr)	98	6.938	6.933	0.000	93	1040166	50.0	49.9	
$ 6 4-Bromofluorobenzene (Surr)	174	9.596	9.590	0.000	92	345718	50.0	55.5	
10 Dichlorodifluoromethane	85	1.968	1.967	0.001	99	267290	50.0	48.1	
12 Chloromethane	50	2.162	2.162	0.000	99	316198	50.0	42.6	
13 Vinyl chloride	62	2.260	2.266	-0.006	97	292597	50.0	45.3	
14 Bromomethane	94	2.570	2.564	0.006	91	180540	50.0	43.5	
15 Chloroethane	64	2.643	2.643	0.000	98	160498	50.0	43.0	
17 Trichlorofluoromethane	101	2.838	2.831	0.007	98	401497	50.0	51.2	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.233	3.227	0.006	93	229773	50.0	49.4	
22 1,1-Dichloroethene	96	3.251	3.245	0.006	95	234969	50.0	47.3	
23 Acetone	43	3.282	3.282	0.000	99	348935	250.0	155.2	
26 Carbon disulfide	76	3.470	3.464	0.006	100	802789	50.0	45.9	
27 Methyl acetate	43	3.519	3.519	0.000	98	370840	100.0	70.0	
30 Methylene Chloride	84	3.635	3.628	0.007	97	341126	50.0	50.8	
32 Methyl tert-butyl ether	73	3.799	3.799	0.000	97	725858	50.0	38.7	
34 trans-1,2-Dichloroethene	96	3.835	3.829	0.006	96	288922	50.0	47.1	
39 1,1-Dichloroethane	63	4.164	4.164	0.000	97	527798	50.0	45.0	
43 2-Butanone (MEK)	43	4.602	4.602	0.000	100	528164	250.0	156.4	
45 cis-1,2-Dichloroethene	96	4.620	4.620	0.000	85	310074	50.0	44.5	
50 Chloroform	83	4.857	4.857	0.000	95	523871	50.0	43.1	
51 1,1,1-Trichloroethane	97	5.022	5.021	0.001	98	441968	50.0	43.6	
52 Cyclohexane	56	5.064	5.064	0.000	93	487839	50.0	47.8	
55 Carbon tetrachloride	117	5.155	5.155	0.000	94	399596	50.0	46.6	
57 Benzene	78	5.332	5.332	0.000	97	1198757	50.0	45.8	
58 1,2-Dichloroethane	62	5.350	5.350	0.000	97	387092	50.0	36.4	
62 Trichloroethene	95	5.855	5.855	0.000	95	293187	50.0	44.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
64 Methylcyclohexane	83	6.013	6.013	0.000	92	435775	50.0	44.3	
65 1,2-Dichloropropane	63	6.068	6.068	0.000	92	283056	50.0	45.0	
68 Dichlorobromomethane	83	6.305	6.305	0.000	98	369480	50.0	40.8	
72 cis-1,3-Dichloropropene	75	6.695	6.694	0.001	94	457577	50.0	43.7	
73 4-Methyl-2-pentanone (MIBK)	43	6.792	6.787	0.000	98	1106558	250.0	152.7	
74 Toluene	92	7.005	6.994	0.006	98	761209	50.0	43.9	
77 trans-1,3-Dichloropropene	75	7.206	7.200	0.001	96	393540	50.0	37.4	
79 1,1,2-Trichloroethane	83	7.400	7.395	0.000	92	176047	50.0	38.9	
81 Tetrachloroethene	166	7.534	7.528	0.000	96	310559	50.0	45.6	
80 2-Hexanone	43	7.583	7.577	0.000	96	748256	250.0	152.0	
83 Chlorodibromomethane	129	7.814	7.802	0.006	90	253739	50.0	39.8	
84 Ethylene Dibromide	107	7.948	7.942	0.000	98	210251	50.0	38.1	
87 Chlorobenzene	112	8.416	8.404	0.006	95	836658	50.0	45.9	
88 Ethylbenzene	91	8.483	8.477	0.000	98	1324472	50.0	41.9	
90 m-Xylene & p-Xylene	106	8.599	8.592	0.000	99	543103		44.7	
91 o-Xylene	106	9.031	9.024	0.001	97	520503		44.0	
92 Styrene	104	9.049	9.042	0.000	95	839955	50.0	42.1	
95 Bromoform	173	9.304	9.298	0.000	97	154487	50.0	37.5	
94 Isopropylbenzene	105	9.402	9.402	0.000	96	1346512	50.0	39.8	
97 1,1,2,2-Tetrachloroethane	83	9.736	9.736	0.000	94	232632	50.0	30.8	
111 1,3-Dichlorobenzene	146	10.643	10.643	0.000	98	594143	50.0	36.6	
113 1,4-Dichlorobenzene	146	10.722	10.722	0.000	95	596161	50.0	36.3	
116 1,2-Dichlorobenzene	146	11.063	11.062	0.001	98	541687	50.0	35.1	
117 1,2-Dibromo-3-Chloropropane	75	11.732	11.732	0.000	88	40257	50.0	25.7	
119 1,2,4-Trichlorobenzene	180	12.395	12.395	0.000	95	303044	50.0	27.3	
S 124 Xylenes, Total	1				0			88.7	

QC Flag Legend

Processing Flags

Reagents:

F 8260 IS/SS_00117 Amount Added: 1.00 Units: uL Run Reagent

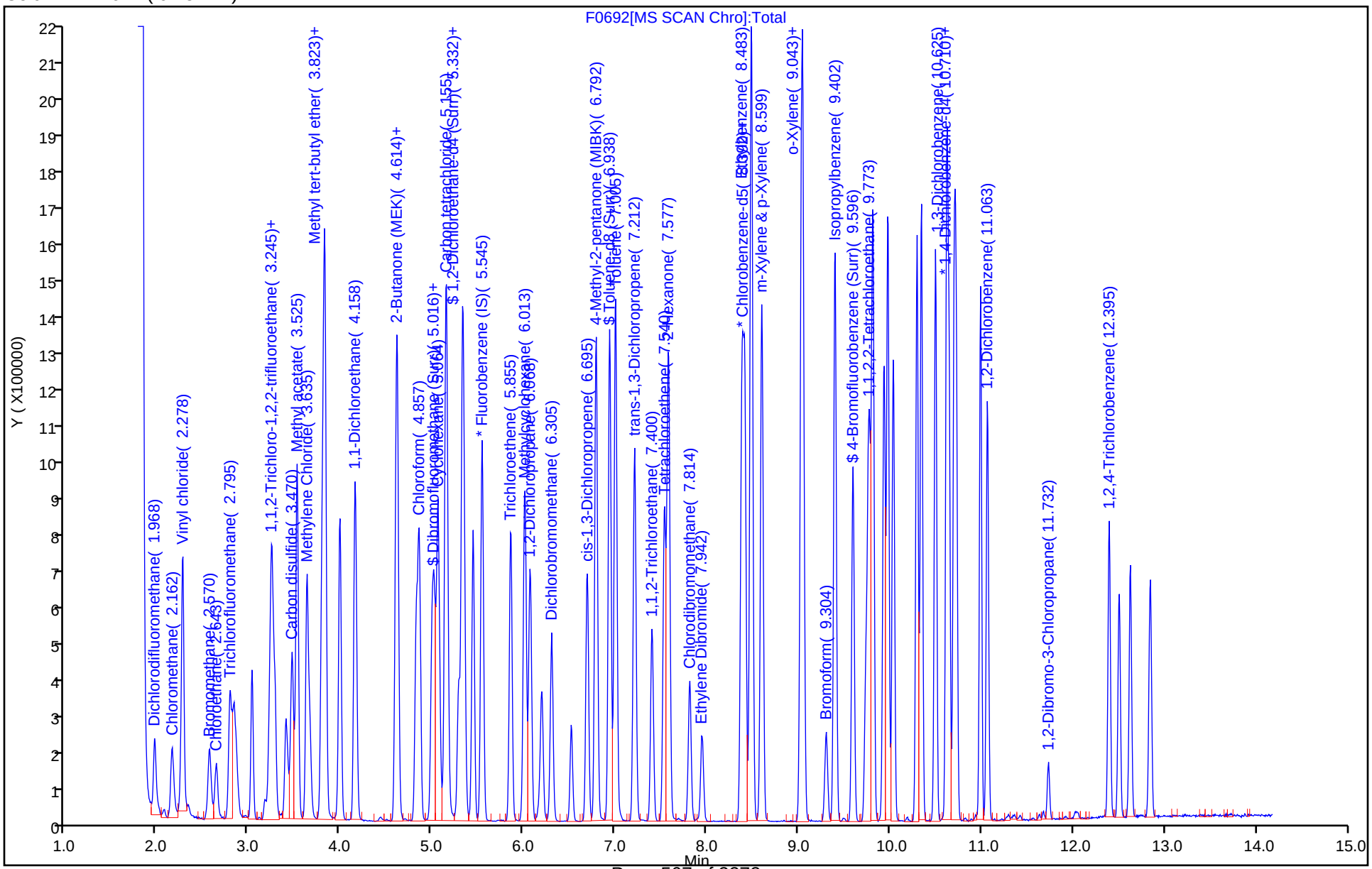
Report Date: 18-Feb-2021 12:59:39 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973F\20210218-96726.b\F0692.D

Injection Date:	18-Feb-2021 12:31:30	Instrument ID:	HP5973F	Operator ID:	WD
Lims ID:	480-181249-B-3-G MSD			Worklist Smp#:	10
Client ID:	SB-12A (4-6)				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Instrument ID: HP5973F Start Date: 02/04/2021 12:02

Analysis Batch Number: 568392 End Date: 02/04/2021 21:18

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-568392/2		02/04/2021 12:02	1	F0407.D	ZB-624 (30) VOA 0.25(mm)
IC 480-568392/4		02/04/2021 12:55	1	F0409.D	ZB-624 (30) VOA 0.25(mm)
IC 480-568392/5		02/04/2021 13:21	1	F0410.D	ZB-624 (30) VOA 0.25(mm)
IC 480-568392/6		02/04/2021 13:48	1	F0411.D	ZB-624 (30) VOA 0.25(mm)
IC 480-568392/7		02/04/2021 14:14	1	F0412.D	ZB-624 (30) VOA 0.25(mm)
ICIS 480-568392/8		02/04/2021 14:41	1	F0413.D	ZB-624 (30) VOA 0.25(mm)
IC 480-568392/9		02/04/2021 15:07	1	F0414.D	ZB-624 (30) VOA 0.25(mm)
IC 480-568392/10		02/04/2021 15:34	1	F0415.D	ZB-624 (30) VOA 0.25(mm)
IC 480-568392/12		02/04/2021 16:27	1		ZB-624 (30) VOA 0.25(mm)
IC 480-568392/13		02/04/2021 16:53	1		ZB-624 (30) VOA 0.25(mm)
IC 480-568392/14		02/04/2021 17:20	1		ZB-624 (30) VOA 0.25(mm)
IC 480-568392/15		02/04/2021 17:46	1		ZB-624 (30) VOA 0.25(mm)
IC 480-568392/16		02/04/2021 18:13	1		ZB-624 (30) VOA 0.25(mm)
IC 480-568392/17		02/04/2021 18:40	1		ZB-624 (30) VOA 0.25(mm)
IC 480-568392/18		02/04/2021 19:06	1		ZB-624 (30) VOA 0.25(mm)
MDLV 480-568392/20		02/04/2021 19:59	1		ZB-624 (30) VOA 0.25(mm)
MDLV 480-568392/21		02/04/2021 20:25	1		ZB-624 (30) VOA 0.25(mm)
ICV 480-568392/22		02/04/2021 20:52	1	F0427.D	ZB-624 (30) VOA 0.25(mm)
ICV 480-568392/23		02/04/2021 21:18	1		ZB-624 (30) VOA 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Instrument ID: HP5973F Start Date: 02/17/2021 09:14

Analysis Batch Number: 569734 End Date: 02/17/2021 22:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-569734/2		02/17/2021 09:14	1	F0656.D	ZB-624 (30) VOA 0.25(mm)
CCVIS 480-569734/3		02/17/2021 09:41	1	F0657.D	ZB-624 (30) VOA 0.25(mm)
CCV 480-569734/4		02/17/2021 10:08	1		ZB-624 (30) VOA 0.25(mm)
LCS 480-569843/1-A		02/17/2021 10:38	1	F0659.D	ZB-624 (30) VOA 0.25(mm)
MB 480-569843/2-A		02/17/2021 11:58	1	F0662.D	ZB-624 (30) VOA 0.25(mm)
480-181249-1	SB-12C (32-33)	02/17/2021 14:45	1	F0664.D	ZB-624 (30) VOA 0.25(mm)
480-181249-2	SB-12C (55-56)	02/17/2021 15:12	1	F0665.D	ZB-624 (30) VOA 0.25(mm)
480-181249-4	SB-12A (13-15)	02/17/2021 15:38	1	F0666.D	ZB-624 (30) VOA 0.25(mm)
480-181249-6	DUP-SB (13-15)	02/17/2021 16:04	1	F0667.D	ZB-624 (30) VOA 0.25(mm)
ZZZZZ		02/17/2021 16:31	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		02/17/2021 16:58	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		02/17/2021 17:24	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		02/17/2021 17:50	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		02/17/2021 18:17	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		02/17/2021 18:44	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		02/17/2021 19:10	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		02/17/2021 20:03	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		02/17/2021 20:30	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		02/17/2021 21:22	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		02/17/2021 21:49	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		02/17/2021 22:16	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		02/17/2021 22:43	1		ZB-624 (30) VOA 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Instrument ID: HP5973F Start Date: 02/18/2021 08:58

Analysis Batch Number: 569897 End Date: 02/18/2021 15:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-569897/2		02/18/2021 08:58	1	F0684.D	ZB-624 (30) VOA 0.25(mm)
CCVIS 480-569897/3		02/18/2021 09:26	1	F0685.D	ZB-624 (30) VOA 0.25(mm)
CCV 480-569897/4		02/18/2021 09:52	1		ZB-624 (30) VOA 0.25(mm)
LCS 480-569920/1-A		02/18/2021 10:19	1	F0687.D	ZB-624 (30) VOA 0.25(mm)
MB 480-569920/2-A		02/18/2021 11:12	1	F0689.D	ZB-624 (30) VOA 0.25(mm)
480-181249-3	SB-12A (4-6)	02/18/2021 11:39	1	F0690.D	ZB-624 (30) VOA 0.25(mm)
480-181249-3 MS	SB-12A (4-6) MS	02/18/2021 12:05	1	F0691.D	ZB-624 (30) VOA 0.25(mm)
480-181249-3 MSD	SB-12A (4-6) MSD	02/18/2021 12:31	1	F0692.D	ZB-624 (30) VOA 0.25(mm)
ZZZZZ		02/18/2021 13:25	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		02/18/2021 13:51	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		02/18/2021 14:18	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		02/18/2021 15:11	1		ZB-624 (30) VOA 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Instrument ID: HP5977L Start Date: 01/18/2021 14:17

Analysis Batch Number: 566434 End Date: 01/19/2021 00:15

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-566434/3		01/18/2021 14:17	1	L5847.D	ZB-624 (30) VOA 0.25(mm)
IC 480-566434/5		01/18/2021 15:08	1	L5849.D	ZB-624 (30) VOA 0.25(mm)
IC 480-566434/6		01/18/2021 15:32	1	L5850.D	ZB-624 (30) VOA 0.25(mm)
IC 480-566434/7		01/18/2021 15:57	1	L5851.D	ZB-624 (30) VOA 0.25(mm)
IC 480-566434/8		01/18/2021 16:22	1	L5852.D	ZB-624 (30) VOA 0.25(mm)
IC 480-566434/9		01/18/2021 16:47	1	L5853.D	ZB-624 (30) VOA 0.25(mm)
ICIS 480-566434/10		01/18/2021 17:12	1	L5854.D	ZB-624 (30) VOA 0.25(mm)
IC 480-566434/11		01/18/2021 17:37	1	L5855.D	ZB-624 (30) VOA 0.25(mm)
IC 480-566434/12		01/18/2021 18:02	1	L5856.D	ZB-624 (30) VOA 0.25(mm)
MDLV 480-566434/14		01/18/2021 18:52	1		ZB-624 (30) VOA 0.25(mm)
MDLV 480-566434/15		01/18/2021 19:17	1		ZB-624 (30) VOA 0.25(mm)
IC 480-566434/17		01/18/2021 20:07	1		ZB-624 (30) VOA 0.25(mm)
IC 480-566434/18		01/18/2021 20:32	1		ZB-624 (30) VOA 0.25(mm)
IC 480-566434/19		01/18/2021 20:56	1		ZB-624 (30) VOA 0.25(mm)
IC 480-566434/20		01/18/2021 21:21	1		ZB-624 (30) VOA 0.25(mm)
IC 480-566434/21		01/18/2021 21:46	1		ZB-624 (30) VOA 0.25(mm)
IC 480-566434/22		01/18/2021 22:10	1		ZB-624 (30) VOA 0.25(mm)
IC 480-566434/23		01/18/2021 22:35	1		ZB-624 (30) VOA 0.25(mm)
MDLV 480-566434/25		01/18/2021 23:25	1		ZB-624 (30) VOA 0.25(mm)
ICV 480-566434/26		01/18/2021 23:50	1	L5870.D	ZB-624 (30) VOA 0.25(mm)
ICV 480-566434/27		01/19/2021 00:15	1		ZB-624 (30) VOA 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Instrument ID: HP5977L Start Date: 02/17/2021 10:11

Analysis Batch Number: 569749 End Date: 02/17/2021 16:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-569749/2		02/17/2021 10:11	1	L6299.D	ZB-624 (30) VOA 0.25(mm)
CCVIS 480-569749/3		02/17/2021 10:39	1	L6300.D	ZB-624 (30) VOA 0.25(mm)
CCV 480-569749/4		02/17/2021 11:04	1		ZB-624 (30) VOA 0.25(mm)
LCS 480-569749/5		02/17/2021 11:29	1	L6302.D	ZB-624 (30) VOA 0.25(mm)
MB 480-569749/7		02/17/2021 12:19	1	L6304.D	ZB-624 (30) VOA 0.25(mm)
480-181249-5	EB-20210210	02/17/2021 12:54	1	L6305.D	ZB-624 (30) VOA 0.25(mm)
480-181249-7	TB-20210210	02/17/2021 13:18	1	L6306.D	ZB-624 (30) VOA 0.25(mm)
ZZZZZ		02/17/2021 13:44	10		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		02/17/2021 14:08	20		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		02/17/2021 14:33	10		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		02/17/2021 14:58	40		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		02/17/2021 15:23	10		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		02/17/2021 15:48	10		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		02/17/2021 16:13	10		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		02/17/2021 16:38	10		ZB-624 (30) VOA 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Batch Number: 566434 Batch Start Date: 01/18/21 14:17 Batch Analyst: Hill, Leah C

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8260 CORP mix 00199	BFB_WRK 00116	GAS CORP mix 00437	L_8260_IS 00023
BFB 480-566434/3		8260C		1 uL	1 uL		1 uL		
IC 480-566434/5		8260C		5 mL	5 mL	0.4 uL		0.4 uL	2 uL
IC 480-566434/6		8260C		5 mL	5 mL	1 uL		1 uL	2 uL
IC 480-566434/7		8260C		5 mL	5 mL	2 uL		2 uL	2 uL
IC 480-566434/8		8260C		5 mL	5 mL	5 uL		5 uL	2 uL
IC 480-566434/9		8260C		5 mL	5 mL	5 uL		5 uL	2 uL
ICIS 480-566434/10		8260C		5 mL	5 mL	12.5 uL		12.5 uL	2 uL
IC 480-566434/11		8260C		5 mL	5 mL	25 uL		25 uL	2 uL
IC 480-566434/12		8260C		5 mL	5 mL	50 uL		50 uL	2 uL
ICV 480-566434/26		8260C		5 mL	5 mL				2 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	L_8260_SURR 00022	SS 8260 CORP 00088	SS GAS CORP 00386			
BFB 480-566434/3		8260C							
IC 480-566434/5		8260C		2 uL					
IC 480-566434/6		8260C		2 uL					
IC 480-566434/7		8260C		2 uL					
IC 480-566434/8		8260C		2 uL					
IC 480-566434/9		8260C		2 uL					
ICIS 480-566434/10		8260C		2 uL					
IC 480-566434/11		8260C		2 uL					
IC 480-566434/12		8260C		2 uL					
ICV 480-566434/26		8260C		2 uL	12.5 uL	12.5 uL			

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Batch Number: 566434 Batch Start Date: 01/18/21 14:17 Batch Analyst: Hill, Leah C

Batch Method: 8260C Batch End Date:

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Batch Number: 569749 Batch Start Date: 02/17/21 10:11 Batch Analyst: LaPointe, Cody R

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00202	BFB_WRK 00117	GAS CORP mix 00442
BFB 480-569749/2		8260C		1 uL	1 uL			1 uL	
CCVIS 480-569749/3		8260C		5 mL	5 mL		12.5 uL		12.5 uL
LCS 480-569749/5		8260C		5 mL	5 mL		12.5 uL		12.5 uL
MB 480-569749/7		8260C		5 mL	5 mL				
480-181249-D-5	EB-02210210	8260C	T	5 mL	5 mL	<2 SU			
480-181249-A-7	TB-20210210	8260C	T	5 mL	5 mL	<2 SU			

Lab Sample ID	Client Sample ID	Method Chain	Basis	L_8260_IS 00024	L_8260_SURR 00023				
BFB 480-569749/2		8260C							
CCVIS 480-569749/3		8260C		2 uL	2 uL				
LCS 480-569749/5		8260C		2 uL	2 uL				
MB 480-569749/7		8260C		2 uL	2 uL				
480-181249-D-5	EB-02210210	8260C	T	2 uL	2 uL				
480-181249-A-7	TB-20210210	8260C	T	2 uL	2 uL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Batch Number: 569843 Batch Start Date: 02/17/21 10:30 Batch Analyst: Dahn, William J

Batch Method: 5035A_L Batch End Date: 02/17/21 13:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	InitialAmount	FinalAmount	8260 CORP mix 00202	GAS CORP mix 00442
LCS 480-569843/1		5035A_L, 8260C		25.11 g	30.11 g	5 g	5 mL	2.5 uL	2.5 uL
MB 480-569843/2		5035A_L, 8260C		25.20 g	30.20 g	5 g	5 mL		
480-181249-B-1	SB-12C (32-33)	5035A_L, 8260C	T	25.44 g	30.46 g	5.02 g	5 mL		
480-181249-C-2	SB-12C (55-56)	5035A_L, 8260C	T	25.10 g	30.22 g	5.12 g	5 mL		
480-181249-B-4	SB-12A (13-15)	5035A_L, 8260C	T	25.16 g	30.17 g	5.01 g	5 mL		
480-181249-B-6	DUP-SB (13-15)	5035A_L, 8260C	T	25.39 g	30.41 g	5.02 g	5 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
LCS 480-569843/1		5035A_L, 8260C							
MB 480-569843/2		5035A_L, 8260C							
480-181249-B-1	SB-12C (32-33)	5035A_L, 8260C	T	BULK					
480-181249-C-2	SB-12C (55-56)	5035A_L, 8260C	T	BULK					
480-181249-B-4	SB-12A (13-15)	5035A_L, 8260C	T	BULK					
480-181249-B-6	DUP-SB (13-15)	5035A_L, 8260C	T	BULK					

Batch Notes	
Balance ID	b202613314
Batch Comment	sand_00015

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Batch Number: 569920 Batch Start Date: 02/18/21 09:16 Batch Analyst: Dahn, William J

Batch Method: 5035A_L Batch End Date: 02/18/21 12:16

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	InitialAmount	FinalAmount	8260 CORP mix 00202	GAS CORP mix 00442
LCS 480-569920/1		5035A_L, 8260C		25.11 g	30.11 g	5 g	5 mL	2.5 uL	2.5 uL
MB 480-569920/2		5035A_L, 8260C		25.18 g	30.18 g	5 g	5 mL		
480-181249-B-3	SB-12A (4-6)	5035A_L, 8260C	T	24.63 g	29.71 g	5.08 g	5 mL		
480-181249-B-3 MS	SB-12A (4-6)	5035A_L, 8260C	T	25.00 g	30.06 g	5.06 g	5 mL	2.5 uL	2.5 uL
480-181249-B-3 MSD	SB-12A (4-6)	5035A_L, 8260C	T	25.18 g	30.25 g	5.07 g	5 mL	2.5 uL	2.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
LCS 480-569920/1		5035A_L, 8260C							
MB 480-569920/2		5035A_L, 8260C							
480-181249-B-3	SB-12A (4-6)	5035A_L, 8260C	T	BULK					
480-181249-B-3 MS	SB-12A (4-6)	5035A_L, 8260C	T	BULK CLIENT QC					
480-181249-B-3 MSD	SB-12A (4-6)	5035A_L, 8260C	T	BULK CLIENT QC					

Batch Notes	
Balance ID	b202613314
Batch Comment	sand_00015

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8082A

Polychlorinated Biphenyls (PCBs) (GC) by Method 8082A

FORM II
PCBS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCBP1 #	DCBP2 #
SB-12C (32-33)	480-181249-1	112	128	112	202 *
SB-12C (55-56)	480-181249-2	106	109	102	179 *
SB-12A (4-6)	480-181249-3	115	125	111	197 *
SB-12A (13-15)	480-181249-4	110	122	110	197 *
DUP-SB (13-15)	480-181249-6	109	121	108	194 *
	MB 480-570093/1-A	133	139	127	219 *
	LCS 480-570093/2-A	129	141	127	217 *
SB-12A (4-6) MS	480-181249-3 MS	117	128	110	199 *
SB-12A (4-6) MSD	480-181249-3 MSD	160 *	185 *	159	283 *

	QC LIMITS
TCX = Tetrachloro-m-xylene	60-154
DCBP = DCB Decachlorobiphenyl	65-174

Column to be used to flag recovery values

FORM II 8082A

FORM II
PCBS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): ZB-35 ID: 0.53(mm)

Client Sample ID	Lab Sample ID	TCX1 #	DCBP1 #
EB-20210210	480-181249-5	71	42
	MB 480-569918/1-A	58	42
	LCS 480-569918/2-A	61	42

	QC LIMITS
TCX = Tetrachloro-m-xylene	39-121
DCBP = DCB Decachlorobiphenyl	19-120

Column to be used to flag recovery values

FORM II 8082A

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 7_89-162.D

Lab ID: LCS 480-569918/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
PCB-1016	4.00	2.67	67	62-130	
PCB-1260	4.00	2.88	72	56-123	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 6_084-118.D

Lab ID: LCS 480-570093/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
PCB-1016	2.46	3.02	122	51-185	
PCB-1260	2.46	2.98	121	61-184	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM III
PCBS MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 6_084-119.D

Lab ID: 480-181249-3 MS Client ID: SB-12A (4-6) MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
PCB-1016	2.55	0.30 U	3.20	125	50-177	
PCB-1260	2.55	0.30 U	3.18	125	33-200	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM III
PCBS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 6_084-120.D

Lab ID: 480-181249-3 MSD Client ID: SB-12A (4-6) MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
PCB-1016	2.58	4.20	163	27	50	50-177	
PCB-1260	2.58	4.18	162	27	50	33-200	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: MB 480-569918/1-A

Matrix: Water Date Extracted: 02/18/2021 08:55

Lab File ID:(1) 7_89-161.D Lab File ID:(2) 7_89-161.D

Date Analyzed:(1) 02/18/2021 17:14 Date Analyzed:(2) 02/18/2021 17:14

Instrument ID:(1) HP6890-7 Instrument ID:(2) HP6890-7

GC Column:(1) ZB-35 ID: 0.53(mm) GC Column:(2) ZB-5 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 480-569918/2-A	02/18/2021 17:30	02/18/2021 17:30
EB-20210210	480-181249-5	02/18/2021 21:12	02/18/2021 21:12

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: MB 480-570093/1-A

Matrix: Solid Date Extracted: 02/19/2021 08:56

Lab File ID:(1) 6_084-117.D Lab File ID:(2) 6_084-117.D

Date Analyzed:(1) 02/21/2021 17:56 Date Analyzed:(2) 02/21/2021 17:56

Instrument ID:(1) HP6890-6 Instrument ID:(2) HP6890-6

GC Column:(1) ZB-35 ID: 0.53(mm) GC Column:(2) ZB-5 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 480-570093/2-A	02/21/2021 18:08	02/21/2021 18:08
SB-12A (4-6) MS	480-181249-3 MS	02/21/2021 18:20	02/21/2021 18:20
SB-12A (4-6) MSD	480-181249-3 MSD	02/21/2021 18:33	02/21/2021 18:33
SB-12A (4-6)	480-181249-3	02/21/2021 18:45	02/21/2021 18:45
SB-12C (32-33)	480-181249-1	02/21/2021 18:57	02/21/2021 18:57
SB-12C (55-56)	480-181249-2	02/21/2021 19:10	02/21/2021 19:10
SB-12A (13-15)	480-181249-4	02/21/2021 19:22	02/21/2021 19:22
DUP-SB (13-15)	480-181249-6	02/21/2021 19:34	02/21/2021 19:34

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Sample No.: CCVIS 480-570176/5 Date Analyzed: 02/21/2021 14:50

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53(mm)

Lab File ID (Standard): 6_084-102.D Heated Purge: (Y/N) N

Calibration ID: 40843

		BNB					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		4379137	0.74				
UPPER LIMIT		8758274	1.24				
LOWER LIMIT		2189569	0.24				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-570176/6		4799426	0.74				
CCV 480-570176/7		4528805	0.74				
CCV 480-570176/8		4307128	0.74				
CCV 480-570176/9		4216165	0.74				
MB 480-570093/1-A		3781810	0.74				
LCS 480-570093/2-A		4018599	0.74				
480-181249-3 MS	SB-12A (4-6) MS	4064807	0.74				
480-181249-3 MSD	SB-12A (4-6) MSD	3862557	0.74				
480-181249-3	SB-12A (4-6)	4011358	0.74				
480-181249-1	SB-12C (32-33)	3959151	0.74				
480-181249-2	SB-12C (55-56)	4095200	0.75				
480-181249-4	SB-12A (13-15)	4010606	0.74				
480-181249-6	DUP-SB (13-15)	3952456	0.74				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Sample No.: CCVIS 480-570176/5 Date Analyzed: 02/21/2021 14:50

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53(mm)

Lab File ID (Standard): 6_084-102.D Heated Purge: (Y/N) N

Calibration ID: 40844

		BNB					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		13362307	0.83				
UPPER LIMIT		26724614	1.33				
LOWER LIMIT		6681154	0.33				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-570176/6		14360151	0.83				
CCV 480-570176/7		13545559	0.83				
CCV 480-570176/8		12932143	0.83				
CCV 480-570176/9		12667726	0.83				
MB 480-570093/1-A		11224958	0.83				
LCS 480-570093/2-A		12007611	0.83				
480-181249-3 MS	SB-12A (4-6) MS	12778559	0.83				
480-181249-3 MSD	SB-12A (4-6) MSD	12081346	0.83				
480-181249-3	SB-12A (4-6)	12607371	0.83				
480-181249-1	SB-12C (32-33)	12719472	0.83				
480-181249-2	SB-12C (55-56)	12683534	0.84				
480-181249-4	SB-12A (13-15)	12769631	0.83				
480-181249-6	DUP-SB (13-15)	12485481	0.83				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Sample No.: CCVIS 480-569989/5 Date Analyzed: 02/18/2021 13:48

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm)

Lab File ID (Standard): 7_89-148.D Heated Purge: (Y/N) N

Calibration ID: 40050

		BNB					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		6780136	2.07				
UPPER LIMIT		13560272	2.57				
LOWER LIMIT		3390068	1.57				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-569989/6		6508793	2.07				
CCV 480-569989/7		6227167	2.07				
CCV 480-569989/8		6165813	2.07				
CCV 480-569989/9		5894109	2.07				
MB 480-569918/1-A		6150540	2.07				
LCS 480-569918/2-A		6260918	2.07				
CCV 480-569989/31		6592742	2.07				
480-181249-5	EB-20210210	6220417	2.08				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Sample No.: CCVIS 480-569989/5 Date Analyzed: 02/18/2021 13:48

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm)

Lab File ID (Standard): 7_89-148.D Heated Purge: (Y/N) N

Calibration ID: 40051

		BNB					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		7023098	2.27				
UPPER LIMIT		14046196	2.77				
LOWER LIMIT		3511549	1.77				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-569989/6		6743226	2.27				
CCV 480-569989/7		6472750	2.27				
CCV 480-569989/8		6441817	2.27				
CCV 480-569989/9		6163612	2.27				
MB 480-569918/1-A		6160212	2.27				
LCS 480-569918/2-A		6271476	2.27				
CCV 480-569989/31		6833451	2.27				
480-181249-5	EB-20210210	6225198	2.27				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12A (4-6) MS Lab Sample ID: 480-181249-3 MS

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 02/21/2021 18:20 Date Analyzed (2): 02/21/2021 18:20

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	2.23	2.22	2.25	3.09	3.20	19.8
		2	2.34	2.32	2.35	3.28		
		3	2.43	2.41	2.44	3.34		
		4	2.69	2.67	2.70	3.12		
		5	2.79	2.77	2.80	3.17		
	2	1	1.93	1.91	1.94	2.76	2.62	
		2	2.11	2.09	2.12	2.87		
		3	2.18	2.16	2.19	2.51		
		4	2.23	2.21	2.24	2.72		
		5	2.59	2.57	2.60	2.26		
PCB-1260	1	1	3.60	3.58	3.61	3.27	3.18	18.4
		2	3.71	3.69	3.72	3.05		
		3	4.01	3.99	4.02	3.30		
		4	4.45	4.43	4.46	3.22		
		5	4.77	4.75	4.78	3.07		
	2	1	3.44	3.42	3.45	4.84	3.83	
		2	3.62	3.60	3.63	4.24		
		3	3.83	3.81	3.84	3.58		
		4	4.13	4.12	4.15	2.79		
		5	4.34	4.32	4.35	3.69		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12A (4-6) MSD Lab Sample ID: 480-181249-3 MSD

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 02/21/2021 18:33 Date Analyzed (2): 02/21/2021 18:33

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	2.23	2.22	2.25	4.18	4.20	12.9
		2	2.34	2.32	2.35	4.30		
		3	2.43	2.41	2.44	4.41		
		4	2.69	2.67	2.70	4.08		
		5	2.79	2.77	2.80	4.06		
	2	1	1.93	1.91	1.94	4.12	3.70	
		2	2.11	2.09	2.12	3.92		
		3	2.18	2.16	2.19	3.57		
		4	2.23	2.21	2.24	3.69		
		5	2.59	2.57	2.60	3.18		
PCB-1260	1	1	3.60	3.58	3.61	4.28	4.18	19.7
		2	3.71	3.69	3.72	3.98		
		3	4.01	3.99	4.02	4.26		
		4	4.45	4.43	4.46	4.29		
		5	4.77	4.75	4.78	4.07		
	2	1	3.44	3.42	3.45	6.37	5.09	
		2	3.62	3.60	3.63	5.54		
		3	3.83	3.81	3.84	4.76		
		4	4.13	4.12	4.15	3.78		
		5	4.34	4.32	4.35	4.98		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-569918/2-A

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 02/18/2021 17:30 Date Analyzed (2): 02/18/2021 17:30

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	4.25	4.22	4.28	3.03	2.67	0.1
		2	4.38	4.35	4.41	2.80		
		3	4.49	4.45	4.51	2.56		
		4	4.78	4.75	4.81	2.56		
		5	4.90	4.87	4.93	2.39		
	2	1	3.39	3.35	3.41	2.51	2.67	
		2	4.12	4.09	4.15	2.64		
		3	4.21	4.17	4.23	2.81		
		4	4.28	4.24	4.30	2.76		
		5	4.70	4.66	4.72	2.63		
PCB-1260	1	1	5.83	5.80	5.86	2.96	2.88	7.1
		2	5.94	5.91	5.97	3.00		
		3	6.37	6.34	6.40	2.97		
		4	7.04	7.00	7.06	2.96		
		5	7.66	7.63	7.69	2.50		
	2	1	5.66	5.62	5.68	2.62	2.68	
		2	5.86	5.82	5.88	2.74		
		3	6.14	6.11	6.17	2.79		
		4	6.57	6.54	6.60	2.61		
		5	6.87	6.83	6.89	2.64		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-570093/2-A

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 02/21/2021 18:08 Date Analyzed (2): 02/21/2021 18:08

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	2.23	2.22	2.25	2.91	3.02	17.8
		2	2.34	2.32	2.35	3.09		
		3	2.43	2.41	2.44	3.11		
		4	2.69	2.67	2.70	2.92		
		5	2.79	2.77	2.80	3.04		
	2	1	1.93	1.91	1.94	2.76	2.52	
		2	2.10	2.09	2.12	2.64		
		3	2.18	2.16	2.19	2.48		
		4	2.23	2.21	2.24	2.63		
		5	2.59	2.57	2.60	2.11		
PCB-1260	1	1	3.60	3.58	3.61	3.04	2.98	12.4
		2	3.71	3.69	3.72	2.90		
		3	4.01	3.99	4.02	3.06		
		4	4.45	4.43	4.46	3.04		
		5	4.77	4.75	4.78	2.87		
	2	1	3.44	3.42	3.45	4.23	3.38	
		2	3.62	3.60	3.63	3.73		
		3	3.83	3.81	3.84	3.18		
		4	4.13	4.12	4.15	2.52		
		5	4.34	4.32	4.35	3.23		

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12C (32-33) Lab Sample ID: 480-181249-1

Matrix: Solid Lab File ID: 6_084-122.D

Analysis Method: 8082A Date Collected: 02/11/2021 11:25

Extraction Method: 3550C Date Extracted: 02/19/2021 08:56

Sample wt/vol: 2.08(g) Date Analyzed: 02/21/2021 18:57

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 15.8 GPC Cleanup:(Y/N) N

Analysis Batch No.: 570176 Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	128		60-154
2051-24-3	DCB Decachlorobiphenyl	202	*	65-174

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-122.D
Lims ID: 480-181249-D-1-A
Client ID: SB-12C (32-33)
Sample Type: Client
Inject. Date: 21-Feb-2021 18:57:47 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 22-Feb-2021 11:25:28 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1630

First Level Reviewer: chumongkolratn Date: 22-Feb-2021 11:25:28

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	0.738	0.736	0.002	3959151	0.5000	
2	0.830	0.828	0.002	12719472	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	1.330	1.326	0.004	242342	0.0256	
2	1.301	1.298	0.003	783347	0.0224	
					RPD = 13.43	
12 1260 Res 3						
1	4.653	4.662	-0.010	364	NR	
2	5.143	5.152	-0.009	5048	NR	
					RPD = NaN	
$ 15 DCB Decachlorobiphenyl						
1	5.522	5.521	0.001	154638	0.0405	
2	5.637	5.635	0.002	484913	0.0224	
					RPD = 57.59	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

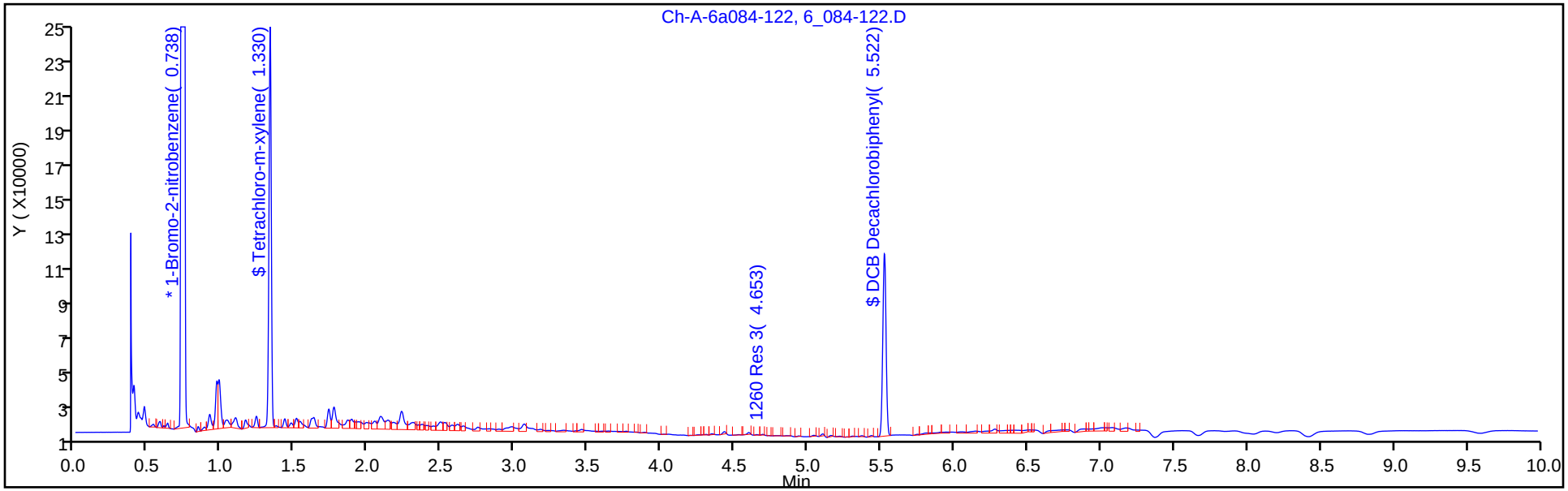
PCB IS 1B2NB_00073 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 22-Feb-2021 11:25:28 Chrom Revision: 2.3 05-Feb-2021 00:13:28

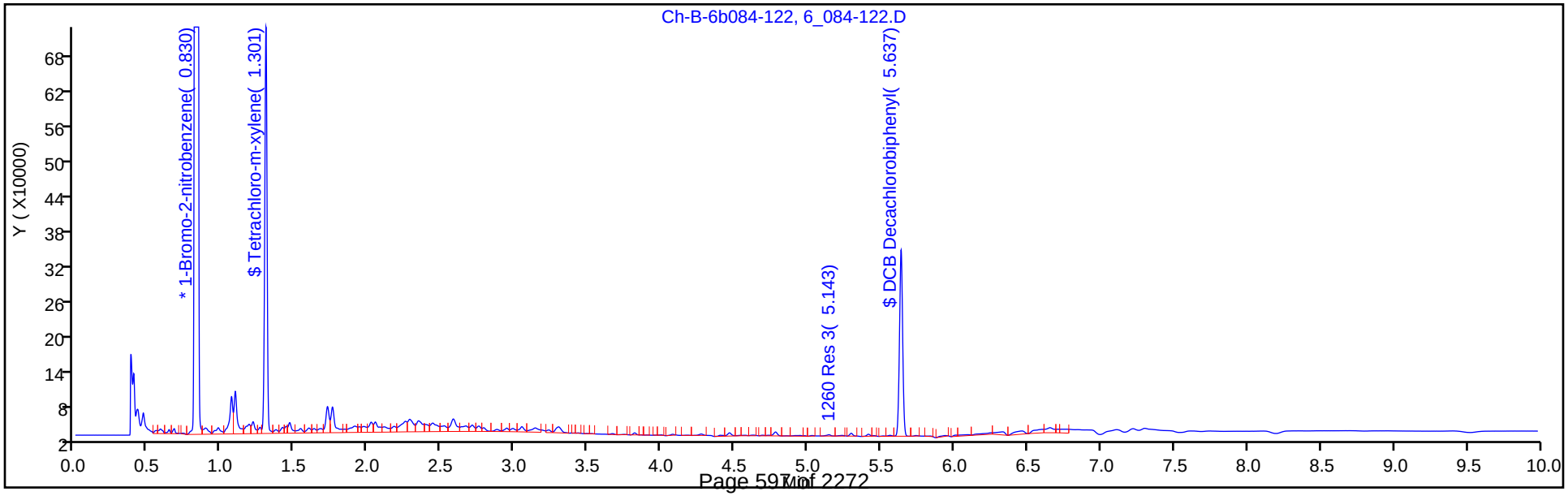
Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-122.D				
Injection Date:	21-Feb-2021 18:57:47	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-181249-D-1-A	Lab Sample ID:	480-181249-1	Worklist Smp#:	25
Client ID:	SB-12C (32-33)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12C (32-33) Lab Sample ID: 480-181249-1

Matrix: Solid Lab File ID: 6_084-122.D

Analysis Method: 8082A Date Collected: 02/11/2021 11:25

Extraction Method: 3550C Date Extracted: 02/19/2021 08:56

Sample wt/vol: 2.08(g) Date Analyzed: 02/21/2021 18:57

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 15.8 GPC Cleanup:(Y/N) N

Analysis Batch No.: 570176 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.29	U	0.29	0.056
11104-28-2	PCB-1221	0.29	U	0.29	0.056
11141-16-5	PCB-1232	0.29	U	0.29	0.056
53469-21-9	PCB-1242	0.29	U	0.29	0.056
12672-29-6	PCB-1248	0.29	U	0.29	0.056
11097-69-1	PCB-1254	0.29	U	0.29	0.13
11096-82-5	PCB-1260	0.29	U	0.29	0.13
37324-23-5	PCB-1262	0.29	U	0.29	0.13
11100-14-4	PCB-1268	0.29	U	0.29	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	112		60-154
2051-24-3	DCB Decachlorobiphenyl	112		65-174

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-122.D				
Lims ID:	480-181249-D-1-A				
Client ID:	SB-12C (32-33)				
Sample Type:	Client				
Inject. Date:	21-Feb-2021 18:57:47	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	BufTCHROM	Instrument ID:	HP6890-6		
Method:	\\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6890-6 PCB.m				
Limit Group:	GC - 8082A PCB IS ICAL				
Last Update:	22-Feb-2021 11:25:28	Calib Date:	16-Dec-2020 20:54:29		
Integrator:	Falcon				
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D				
Column 1 :	ZB-5 (0.53 mm)		Det: Ch-A-7A136		
Column 2 :	ZB-35 (0.53 mm)		Det: Ch-B-7b136		
Process Host:	CTX1630				

First Level Reviewer: chumongkolratn Date: 22-Feb-2021 11:25:28

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	0.738	0.736	0.002	3959151	0.5000	
2	0.830	0.828	0.002	12719472	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	1.330	1.326	0.004	242342	0.0256	
2	1.301	1.298	0.003	783347	0.0224	
					RPD = 13.43	
12 1260 Res 3						
1	4.653	4.662	-0.010	364	NR	
2	5.143	5.152	-0.009	5048	NR	
					RPD = NaN	
$ 15 DCB Decachlorobiphenyl						
1	5.522	5.521	0.001	154638	0.0405	
2	5.637	5.635	0.002	484913	0.0224	
					RPD = 57.59	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00073 Amount Added: 10.00 Units: uL Run Reagent

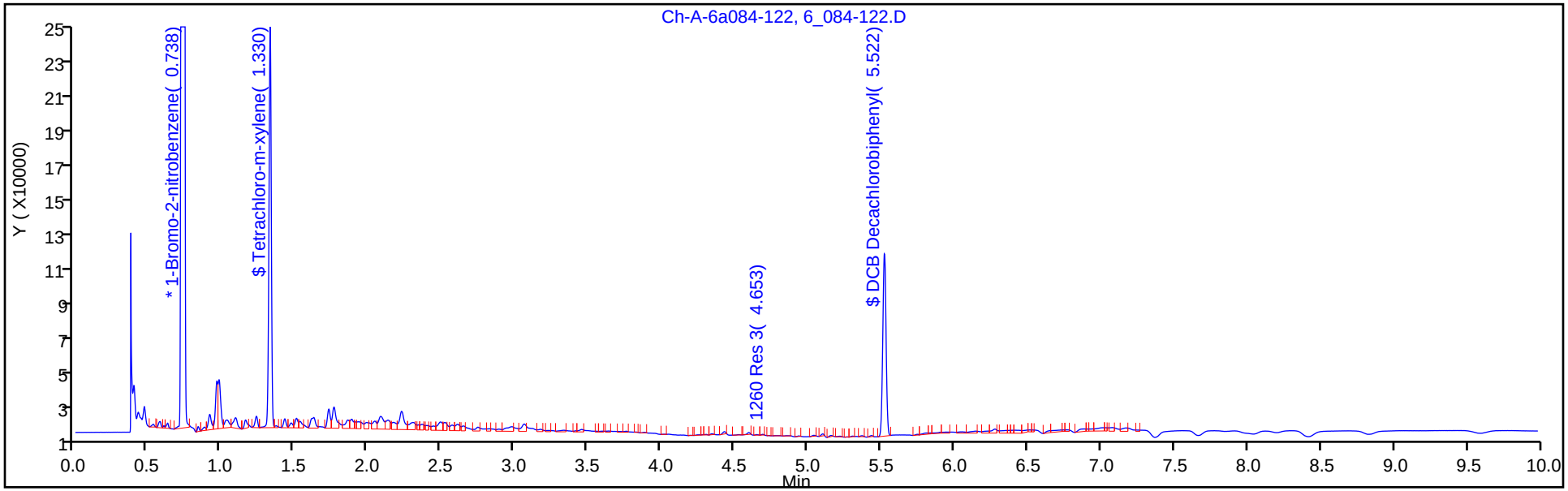
Report Date: 22-Feb-2021 11:25:29 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

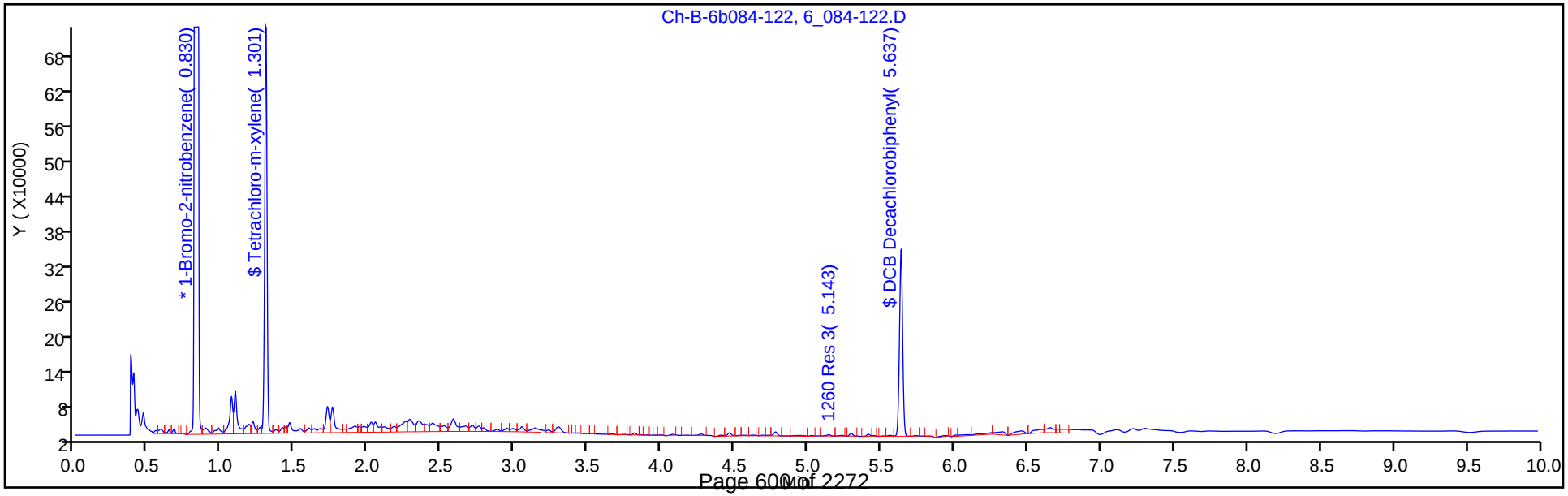
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-122.D

Injection Date:	21-Feb-2021 18:57:47	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-181249-D-1-A	Lab Sample ID:	480-181249-1	Worklist Smp#:	25
Client ID:	SB-12C (32-33)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12C (55-56) Lab Sample ID: 480-181249-2

Matrix: Solid Lab File ID: 6_084-123.D

Analysis Method: 8082A Date Collected: 02/11/2021 15:10

Extraction Method: 3550C Date Extracted: 02/19/2021 08:56

Sample wt/vol: 2.18(g) Date Analyzed: 02/21/2021 19:10

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 37.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 570176 Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	109		60-154
2051-24-3	DCB Decachlorobiphenyl	179	*	65-174

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-123.D
Lims ID: 480-181249-D-2-A
Client ID: SB-12C (55-56)
Sample Type: Client
Inject. Date: 21-Feb-2021 19:10:14 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 22-Feb-2021 12:01:14 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1661

First Level Reviewer: clarkda Date: 22-Feb-2021 12:00:58

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						M
1	0.746	0.736	0.010	4095200	0.5000	M
2	0.835	0.828	0.007	12683534	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	1.333	1.326	0.006	212993	0.0218	
2	1.303	1.298	0.005	742902	0.0213	
					RPD = 2.15	
$ 15 DCB Decachlorobiphenyl						
1	5.522	5.521	0.001	141155	0.0357	
2	5.636	5.635	0.001	442339	0.0205	
					RPD = 54.37	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

PCB IS 1B2NB_00073 Amount Added: 10.00 Units: uL Run Reagent

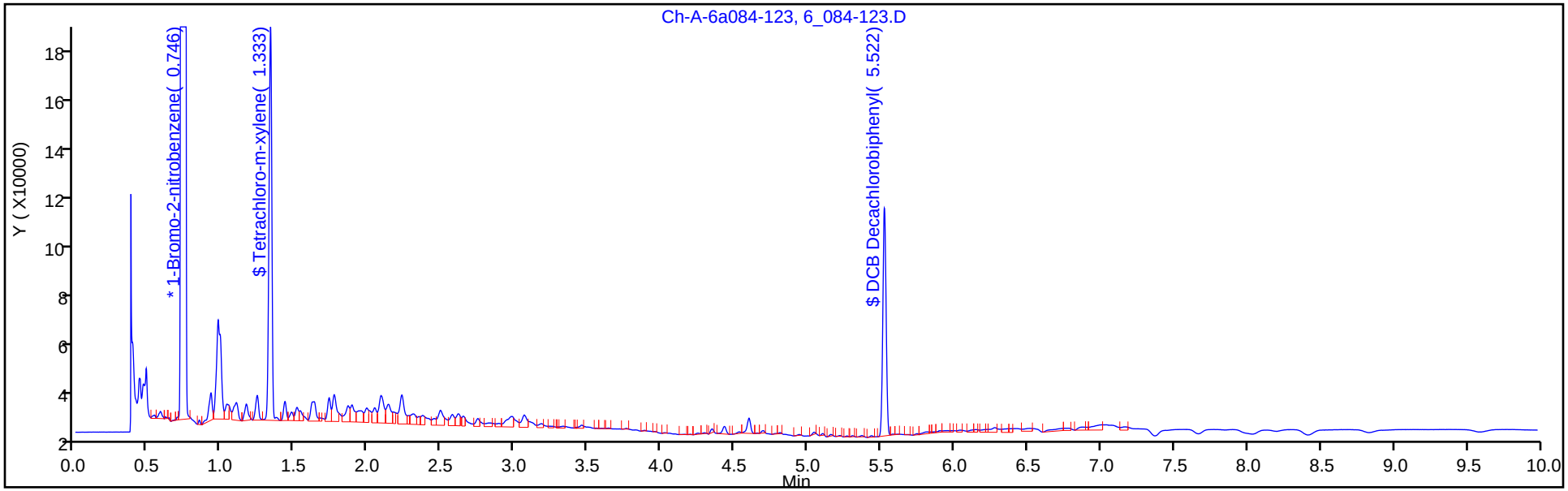
Report Date: 22-Feb-2021 12:01:21 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

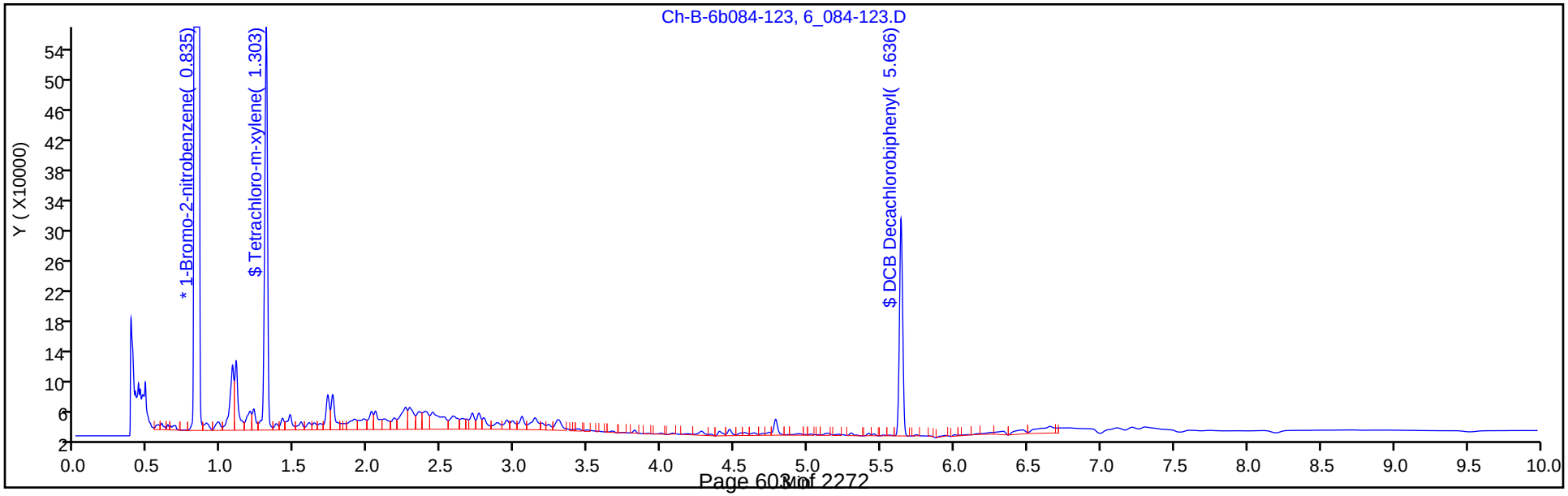
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-123.D

Injection Date:	21-Feb-2021 19:10:14	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-181249-D-2-A	Lab Sample ID:	480-181249-2	Worklist Smp#:	26
Client ID:	SB-12C (55-56)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

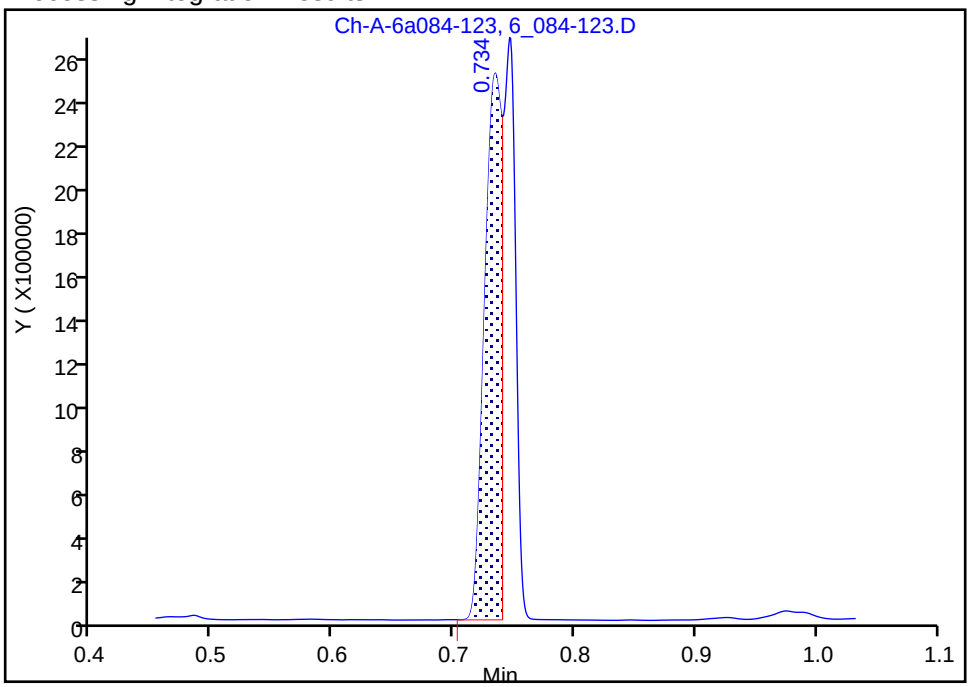
Data File:	\\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-123.D				
Injection Date:	21-Feb-2021 19:10:14	Instrument ID:	HP6890-6		
Lims ID:	480-181249-D-2-A	Lab Sample ID:	480-181249-2		
Client ID:	SB-12C (55-56)				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:	ZB-5 (0.53 mm)	Detector	Ch-A-7A136		

* 1 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 1

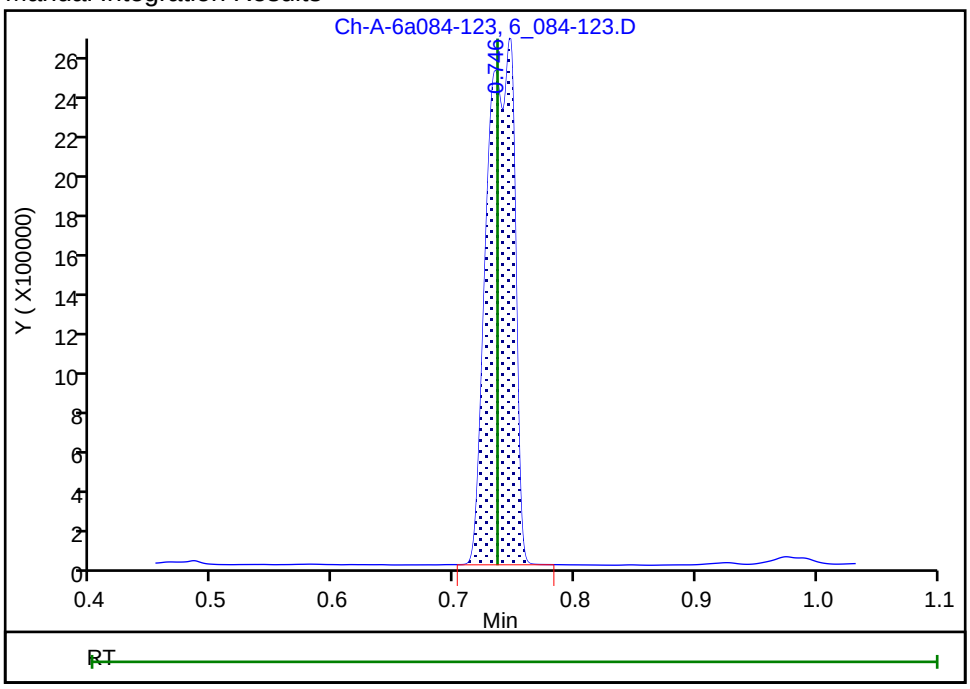
Processing Integration Results

RT: 0.73
Area: 2313166
Amount: 0.500000
Amount Units: ng/uL



Manual Integration Results

RT: 0.75
Area: 4095200
Amount: 0.500000
Amount Units: ng/uL



Reviewer: clarkda, 22-Feb-2021 12:00:52

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12C (55-56) Lab Sample ID: 480-181249-2

Matrix: Solid Lab File ID: 6_084-123.D

Analysis Method: 8082A Date Collected: 02/11/2021 15:10

Extraction Method: 3550C Date Extracted: 02/19/2021 08:56

Sample wt/vol: 2.18(g) Date Analyzed: 02/21/2021 19:10

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 37.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 570176 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.36	U	0.36	0.071
11104-28-2	PCB-1221	0.36	U	0.36	0.071
11141-16-5	PCB-1232	0.36	U	0.36	0.071
53469-21-9	PCB-1242	0.36	U	0.36	0.071
12672-29-6	PCB-1248	0.36	U	0.36	0.071
11097-69-1	PCB-1254	0.36	U	0.36	0.17
11096-82-5	PCB-1260	0.36	U	0.36	0.17
37324-23-5	PCB-1262	0.36	U	0.36	0.17
11100-14-4	PCB-1268	0.36	U	0.36	0.17

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	106		60-154
2051-24-3	DCB Decachlorobiphenyl	102		65-174

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-123.D
Lims ID: 480-181249-D-2-A
Client ID: SB-12C (55-56)
Sample Type: Client
Inject. Date: 21-Feb-2021 19:10:14 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 22-Feb-2021 12:01:14 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1661

First Level Reviewer: clarkda Date: 22-Feb-2021 12:00:58

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						M
1	0.746	0.736	0.010	4095200	0.5000	M
2	0.835	0.828	0.007	12683534	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	1.333	1.326	0.006	212993	0.0218	
2	1.303	1.298	0.005	742902	0.0213	
					RPD = 2.15	
$ 15 DCB Decachlorobiphenyl						
1	5.522	5.521	0.001	141155	0.0357	
2	5.636	5.635	0.001	442339	0.0205	
					RPD = 54.37	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

PCB IS 1B2NB_00073 Amount Added: 10.00 Units: uL Run Reagent

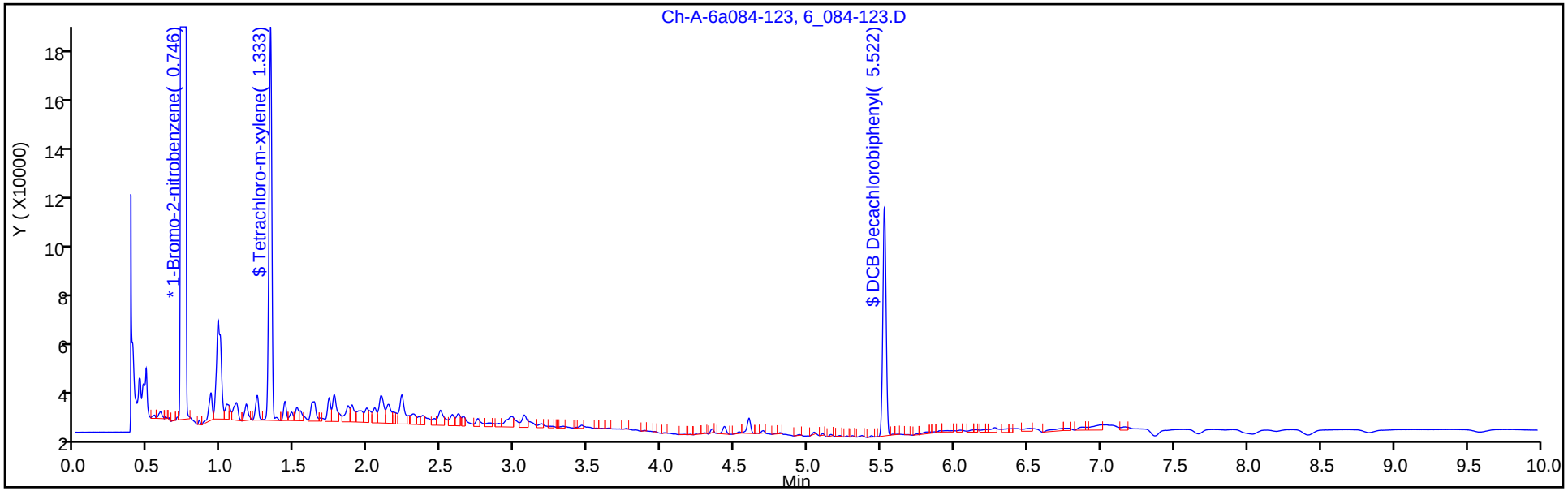
Report Date: 22-Feb-2021 12:01:22 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

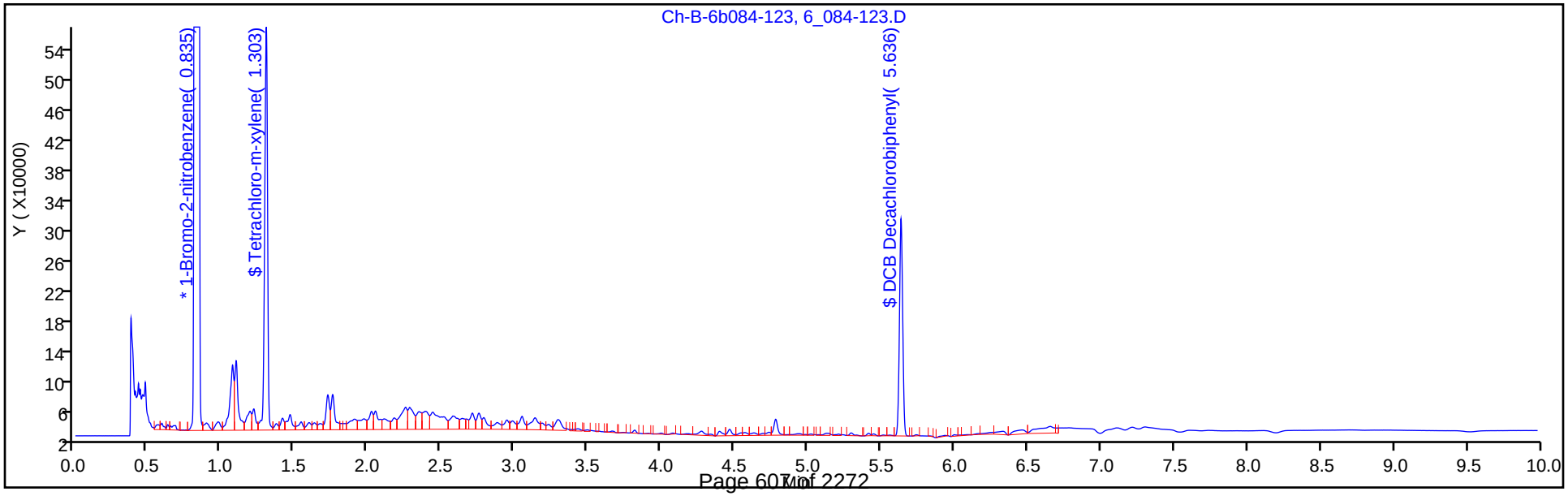
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-123.D

Injection Date:	21-Feb-2021 19:10:14	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-181249-D-2-A	Lab Sample ID:	480-181249-2	Worklist Smp#:	26
Client ID:	SB-12C (55-56)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12A (4-6) Lab Sample ID: 480-181249-3

Matrix: Solid Lab File ID: 6_084-121.D

Analysis Method: 8082A Date Collected: 02/12/2021 13:45

Extraction Method: 3550C Date Extracted: 02/19/2021 08:56

Sample wt/vol: 2.08(g) Date Analyzed: 02/21/2021 18:45

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 19.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 570176 Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	125		60-154
2051-24-3	DCB Decachlorobiphenyl	197	*	65-174

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-121.D				
Lims ID:	480-181249-D-3-C				
Client ID:	SB-12A (4-6)				
Sample Type:	Client				
Inject. Date:	21-Feb-2021 18:45:29	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	BufTCHROM	Instrument ID:	HP6890-6		
Method:	\\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6890-6 PCB.m				
Limit Group:	GC - 8082A PCB IS ICAL				
Last Update:	22-Feb-2021 11:25:13	Calib Date:	16-Dec-2020 20:54:29		
Integrator:	Falcon				
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D				
Column 1 :	ZB-5 (0.53 mm)		Det: Ch-A-7A136		
Column 2 :	ZB-35 (0.53 mm)		Det: Ch-B-7b136		
Process Host:	CTX1630				
First Level Reviewer: chumongkolratn		Date:	22-Feb-2021 11:25:13		

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	0.735	0.736	-0.001	4011358	0.5000	
2	0.828	0.828	0.000	12607371	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	1.328	1.326	0.002	238588	0.0249	
2	1.298	1.298	0.000	793825	0.0229	
					RPD = 8.34	
$ 15 DCB Decachlorobiphenyl						
1	5.523	5.521	0.002	152570	0.0394	
2	5.637	5.635	0.002	478024	0.0223	
					RPD = 55.66	

QC Flag Legend

Processing Flags

Reagents:

PCB IS 1B2NB_00073 Amount Added: 10.00 Units: uL Run Reagent

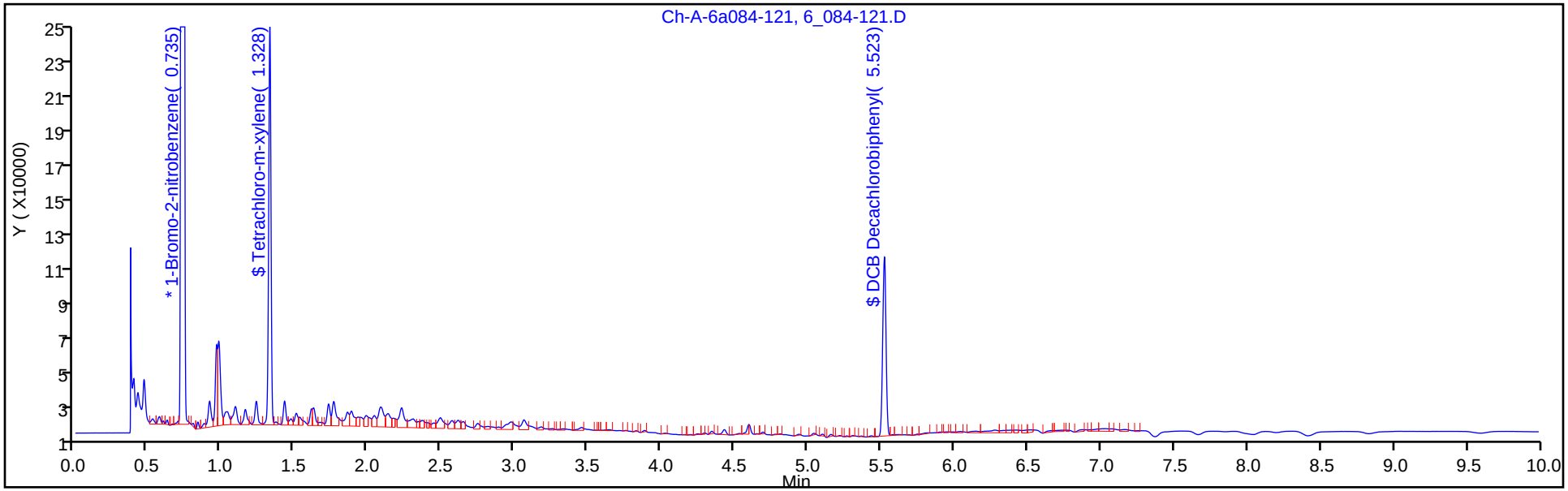
Report Date: 22-Feb-2021 11:25:13 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

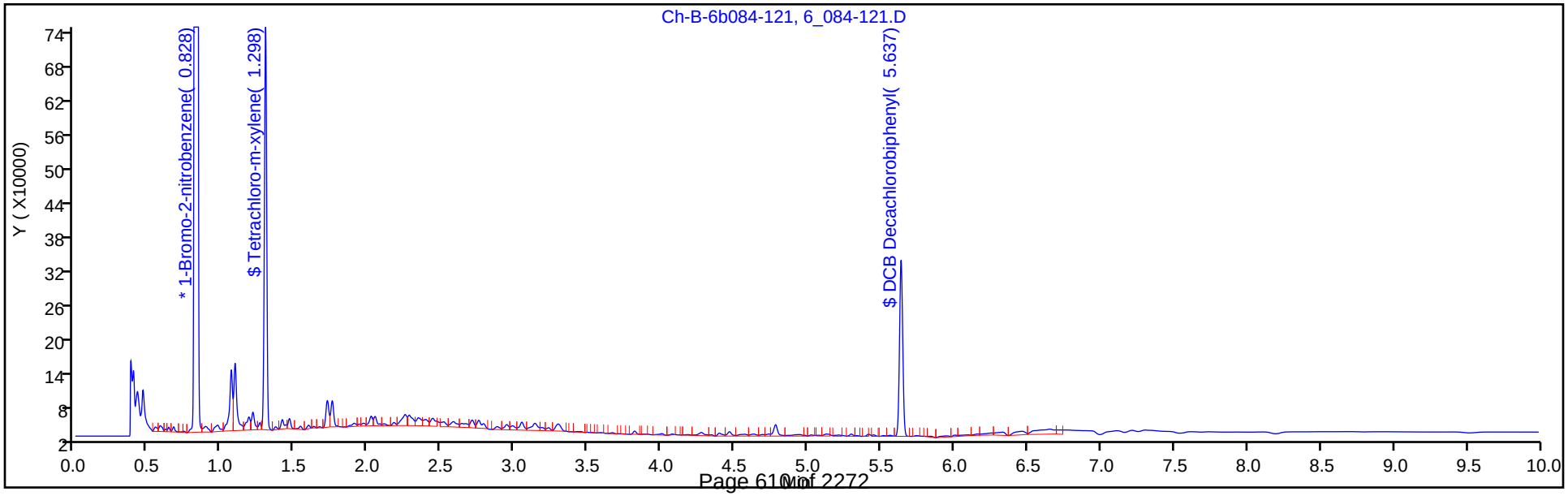
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-121.D

Injection Date:	21-Feb-2021 18:45:29	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-181249-D-3-C	Lab Sample ID:	480-181249-3	Worklist Smp#:	24
Client ID:	SB-12A (4-6)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12A (4-6) Lab Sample ID: 480-181249-3

Matrix: Solid Lab File ID: 6_084-121.D

Analysis Method: 8082A Date Collected: 02/12/2021 13:45

Extraction Method: 3550C Date Extracted: 02/19/2021 08:56

Sample wt/vol: 2.08(g) Date Analyzed: 02/21/2021 18:45

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 19.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 570176 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.30	U	0.30	0.059
11104-28-2	PCB-1221	0.30	U	0.30	0.059
11141-16-5	PCB-1232	0.30	U	0.30	0.059
53469-21-9	PCB-1242	0.30	U	0.30	0.059
12672-29-6	PCB-1248	0.30	U	0.30	0.059
11097-69-1	PCB-1254	0.30	U	0.30	0.14
11096-82-5	PCB-1260	0.30	U	0.30	0.14
37324-23-5	PCB-1262	0.30	U	0.30	0.14
11100-14-4	PCB-1268	0.30	U	0.30	0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	115		60-154
2051-24-3	DCB Decachlorobiphenyl	111		65-174

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-121.D				
Lims ID:	480-181249-D-3-C				
Client ID:	SB-12A (4-6)				
Sample Type:	Client				
Inject. Date:	21-Feb-2021 18:45:29	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#:				
Operator ID:	BufTCHROM	Instrument ID:	HP6890-6		
Method:	\\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6890-6 PCB.m				
Limit Group:	GC - 8082A PCB IS ICAL				
Last Update:	22-Feb-2021 11:25:13	Calib Date:	16-Dec-2020 20:54:29		
Integrator:	Falcon				
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D				
Column 1 :	ZB-5 (0.53 mm)		Det: Ch-A-7A136		
Column 2 :	ZB-35 (0.53 mm)		Det: Ch-B-7b136		
Process Host:	CTX1630				

First Level Reviewer: chumongkolratn Date: 22-Feb-2021 11:25:13

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	0.735	0.736	-0.001	4011358	0.5000	
2	0.828	0.828	0.000	12607371	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	1.328	1.326	0.002	238588	0.0249	
2	1.298	1.298	0.000	793825	0.0229	
					RPD = 8.34	
$ 15 DCB Decachlorobiphenyl						
1	5.523	5.521	0.002	152570	0.0394	
2	5.637	5.635	0.002	478024	0.0223	
					RPD = 55.66	

QC Flag Legend

Processing Flags

Reagents:

PCB IS 1B2NB_00073 Amount Added: 10.00 Units: uL Run Reagent

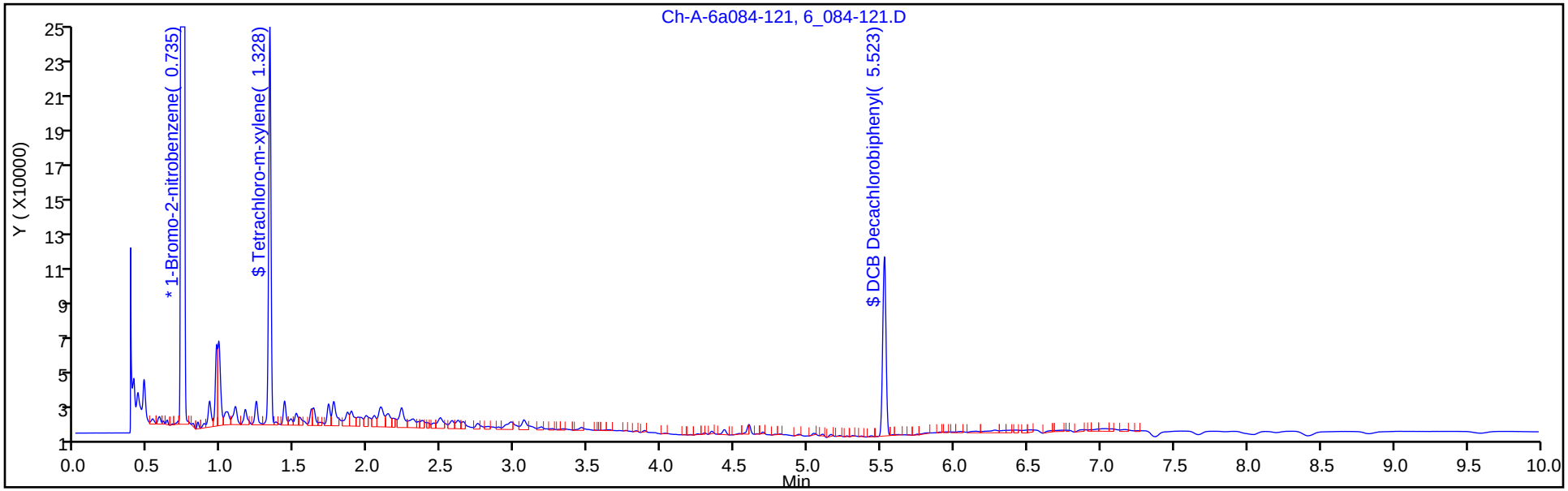
Report Date: 22-Feb-2021 11:25:13 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

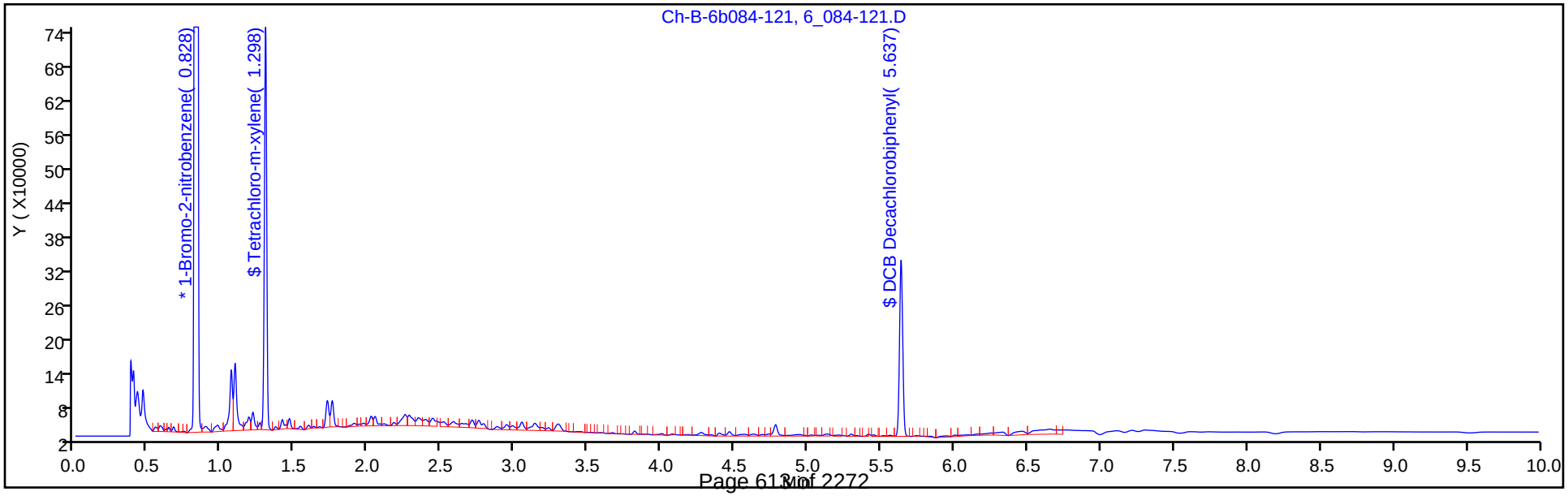
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-121.D

Injection Date:	21-Feb-2021 18:45:29	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-181249-D-3-C	Lab Sample ID:	480-181249-3	Worklist Smp#:	24
Client ID:	SB-12A (4-6)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12A (13-15) Lab Sample ID: 480-181249-4

Matrix: Solid Lab File ID: 6_084-124.D

Analysis Method: 8082A Date Collected: 02/12/2021 14:16

Extraction Method: 3550C Date Extracted: 02/19/2021 08:56

Sample wt/vol: 2.35(g) Date Analyzed: 02/21/2021 19:22

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 17.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 570176 Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	122		60-154
2051-24-3	DCB Decachlorobiphenyl	197	*	65-174

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-124.D
Lims ID: 480-181249-D-4-A
Client ID: SB-12A (13-15)
Sample Type: Client
Inject. Date: 21-Feb-2021 19:22:32 ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 22-Feb-2021 11:28:29 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1630

First Level Reviewer: chumongkolratn Date: 22-Feb-2021 11:28:29

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	0.739	0.736	0.003	4010606	0.5000	
2	0.832	0.828	0.004	12769631	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	1.331	1.326	0.005	232871	0.0243	
2	1.302	1.298	0.004	772480	0.0220	
					RPD = 9.95	
$ 15 DCB Decachlorobiphenyl						M
1	5.522	5.521	0.001	152660	0.0395	
2	5.636	5.635	0.001	476927	0.0219	M
					RPD = 57.13	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

PCB IS 1B2NB_00073 Amount Added: 10.00 Units: uL Run Reagent

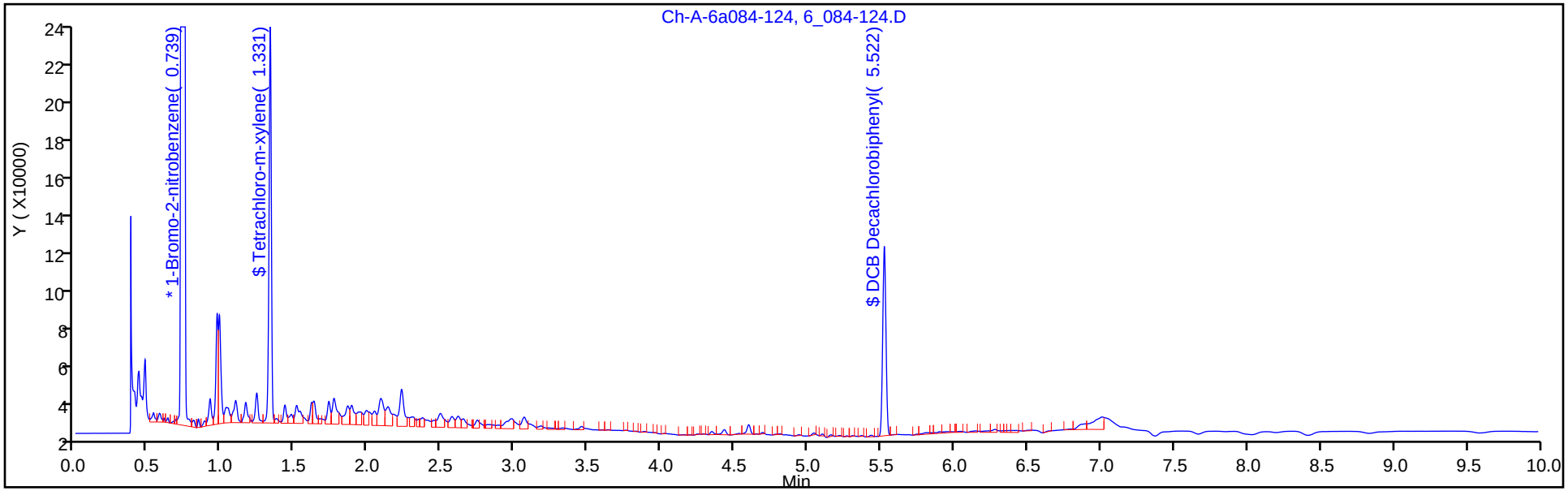
Report Date: 22-Feb-2021 11:28:30 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

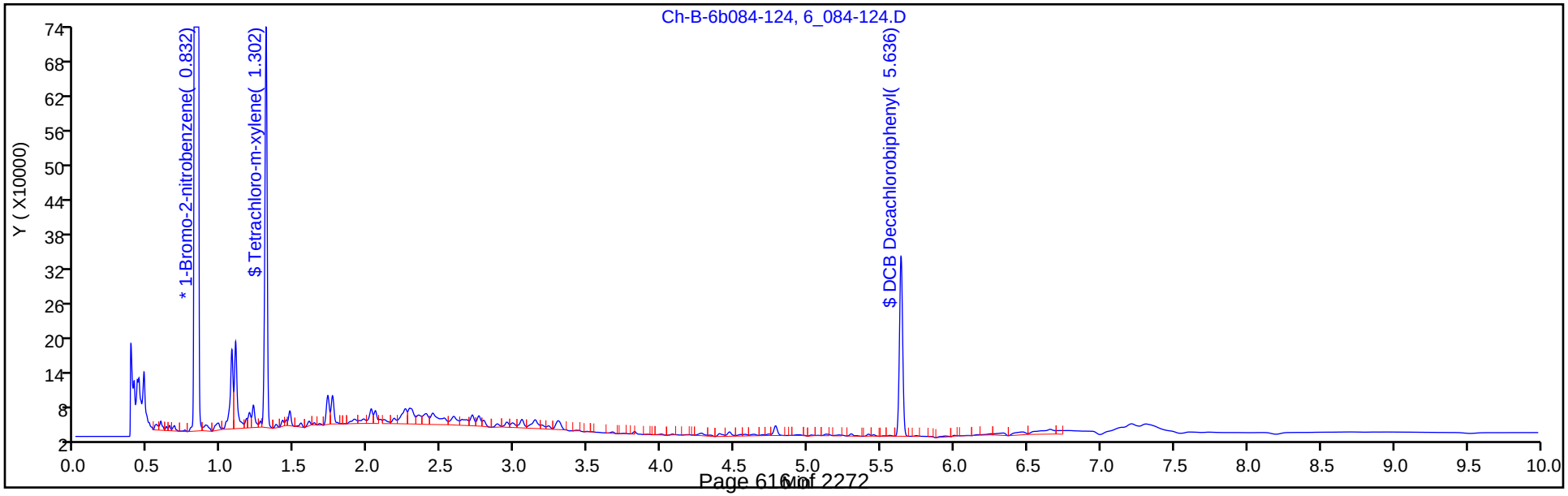
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-124.D

Injection Date:	21-Feb-2021 19:22:32	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-181249-D-4-A	Lab Sample ID:	480-181249-4	Worklist Smp#:	27
Client ID:	SB-12A (13-15)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12A (13-15) Lab Sample ID: 480-181249-4

Matrix: Solid Lab File ID: 6_084-124.D

Analysis Method: 8082A Date Collected: 02/12/2021 14:16

Extraction Method: 3550C Date Extracted: 02/19/2021 08:56

Sample wt/vol: 2.35(g) Date Analyzed: 02/21/2021 19:22

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 17.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 570176 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.26	U	0.26	0.050
11104-28-2	PCB-1221	0.26	U	0.26	0.050
11141-16-5	PCB-1232	0.26	U	0.26	0.050
53469-21-9	PCB-1242	0.26	U	0.26	0.050
12672-29-6	PCB-1248	0.26	U	0.26	0.050
11097-69-1	PCB-1254	0.26	U	0.26	0.12
11096-82-5	PCB-1260	0.26	U	0.26	0.12
37324-23-5	PCB-1262	0.26	U	0.26	0.12
11100-14-4	PCB-1268	0.26	U	0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	110		60-154
2051-24-3	DCB Decachlorobiphenyl	110		65-174

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-124.D
Lims ID: 480-181249-D-4-A
Client ID: SB-12A (13-15)
Sample Type: Client
Inject. Date: 21-Feb-2021 19:22:32 ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 22-Feb-2021 11:28:29 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1630

First Level Reviewer: chumongkolratn Date: 22-Feb-2021 11:28:29

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	0.739	0.736	0.003	4010606	0.5000	
2	0.832	0.828	0.004	12769631	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	1.331	1.326	0.005	232871	0.0243	
2	1.302	1.298	0.004	772480	0.0220	
					RPD = 9.95	
$ 15 DCB Decachlorobiphenyl						M
1	5.522	5.521	0.001	152660	0.0395	
2	5.636	5.635	0.001	476927	0.0219	M
					RPD = 57.13	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

PCB IS 1B2NB_00073 Amount Added: 10.00 Units: uL Run Reagent

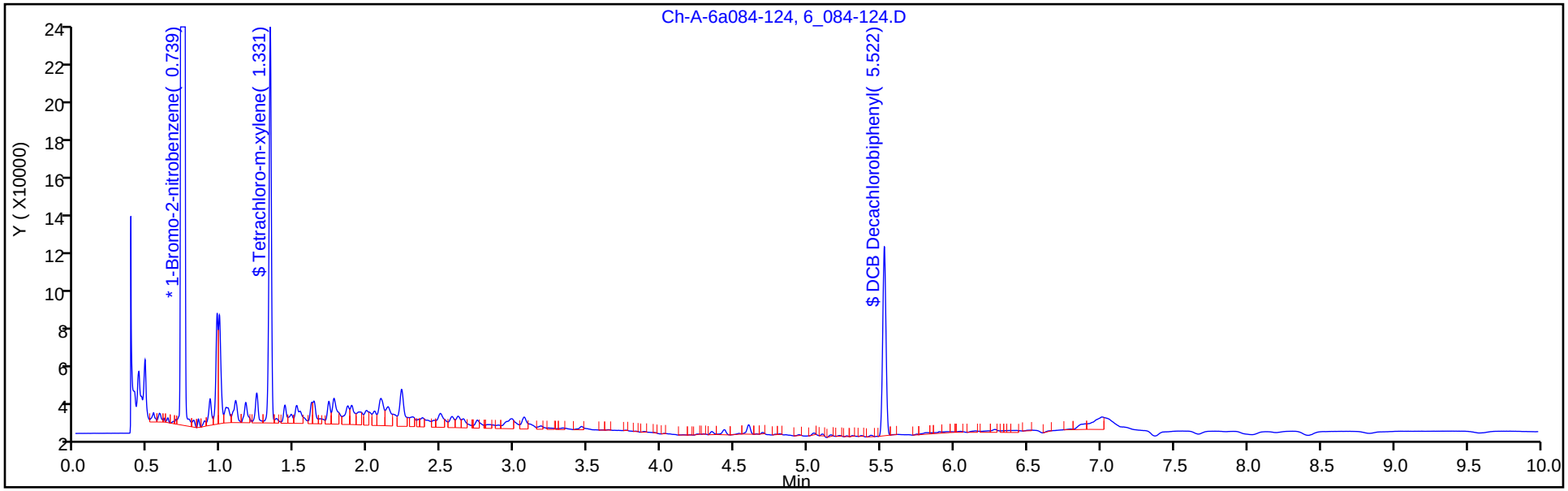
Report Date: 22-Feb-2021 11:28:30 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

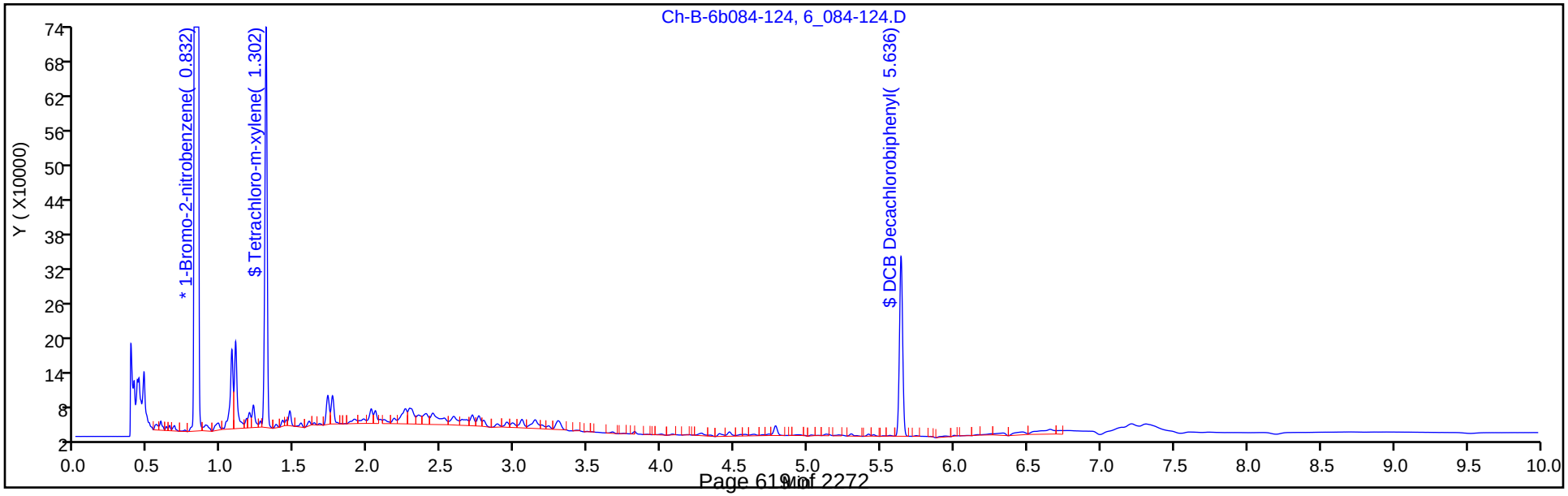
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-124.D

Injection Date:	21-Feb-2021 19:22:32	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-181249-D-4-A	Lab Sample ID:	480-181249-4	Worklist Smp#:	27
Client ID:	SB-12A (13-15)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

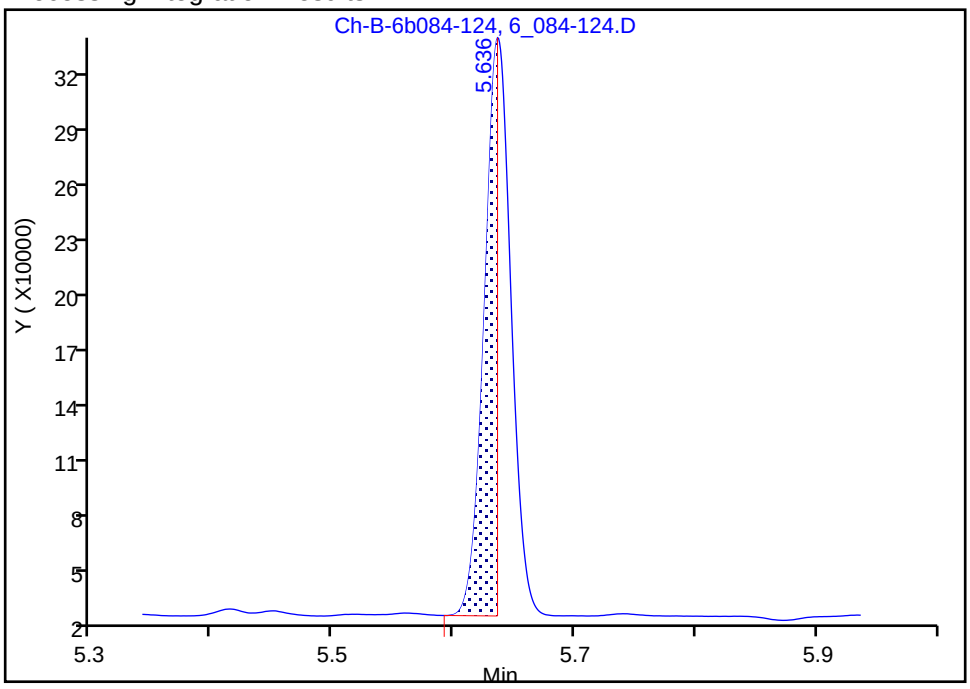
Data File:	\\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-124.D				
Injection Date:	21-Feb-2021 19:22:32	Instrument ID:	HP6890-6		
Lims ID:	480-181249-D-4-A	Lab Sample ID:	480-181249-4		
Client ID:	SB-12A (13-15)				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:	ZB-35 (0.53 mm)	Detector	Ch-B-7b136		

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

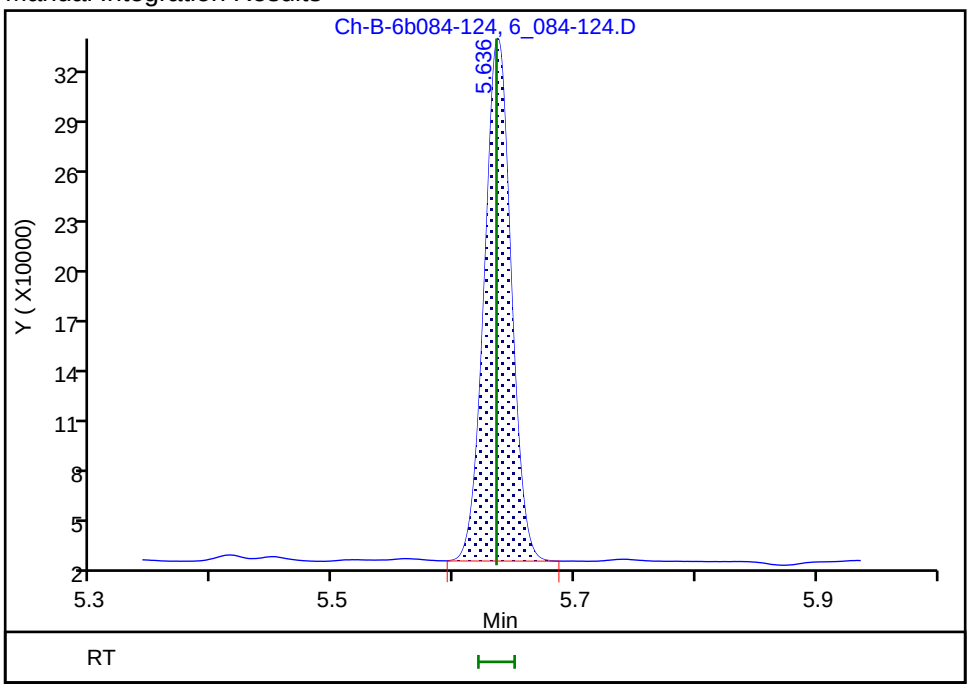
Processing Integration Results

RT: 5.64
Area: 232144
Amount: 0.010557
Amount Units: ng/uL



Manual Integration Results

RT: 5.64
Area: 476927
Amount: 0.021925
Amount Units: ng/uL



Reviewer: chumongkolratn, 22-Feb-2021 11:28:26

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: EB-20210210 Lab Sample ID: 480-181249-5

Matrix: Water Lab File ID: 7_89-176.D

Analysis Method: 8082A Date Collected: 02/10/2021 11:00

Extraction Method: 3510C Date Extracted: 02/18/2021 08:55

Sample wt/vol: 250(mL) Date Analyzed: 02/18/2021 21:12

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 569989 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.50	U	0.50	0.18
11104-28-2	PCB-1221	0.50	U	0.50	0.18
11141-16-5	PCB-1232	0.50	U	0.50	0.18
53469-21-9	PCB-1242	0.50	U	0.50	0.18
12672-29-6	PCB-1248	0.50	U	0.50	0.18
11097-69-1	PCB-1254	0.50	U	0.50	0.25
11096-82-5	PCB-1260	0.50	U	0.50	0.25
37324-23-5	PCB-1262	0.50	U	0.50	0.25
11100-14-4	PCB-1268	0.50	U	0.50	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	71		39-121
2051-24-3	DCB Decachlorobiphenyl	42		19-120

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-176.D
Lims ID: 480-181249-B-5-A
Client ID: EB-20210210
Sample Type: Client
Inject. Date: 18-Feb-2021 21:12:39 ALS Bottle#: 0 Worklist Smp#: 33
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 19-Feb-2021 11:50:06 Calib Date: 23-Jul-2020 18:07:54
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1646

First Level Reviewer: chumongkolratn Date: 19-Feb-2021 11:50:06

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	2.075	2.069	0.006	6220417	0.5000	
2	2.273	2.268	0.004	6225198	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	3.111	3.107	0.004	263848	0.0141	
2	3.070	3.067	0.003	261340	0.0141	
					RPD = 0.28	
$ 15 DCB Decachlorobiphenyl						
1	9.524	9.520	0.004	111431	0.008033	
2	10.058	10.053	0.006	119967	0.008428	
					RPD = 4.81	

QC Flag Legend
Processing Flags

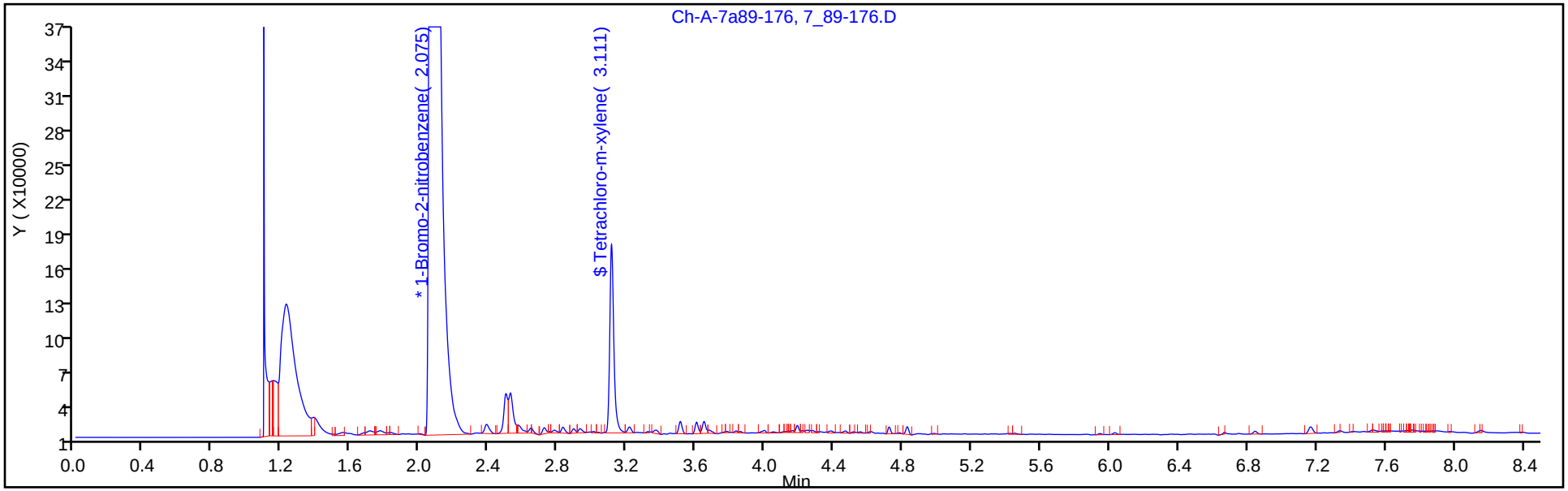
Reagents:
PCB IS 1B2NB_00073 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 19-Feb-2021 11:50:06 Chrom Revision: 2.3 05-Feb-2021 00:13:28

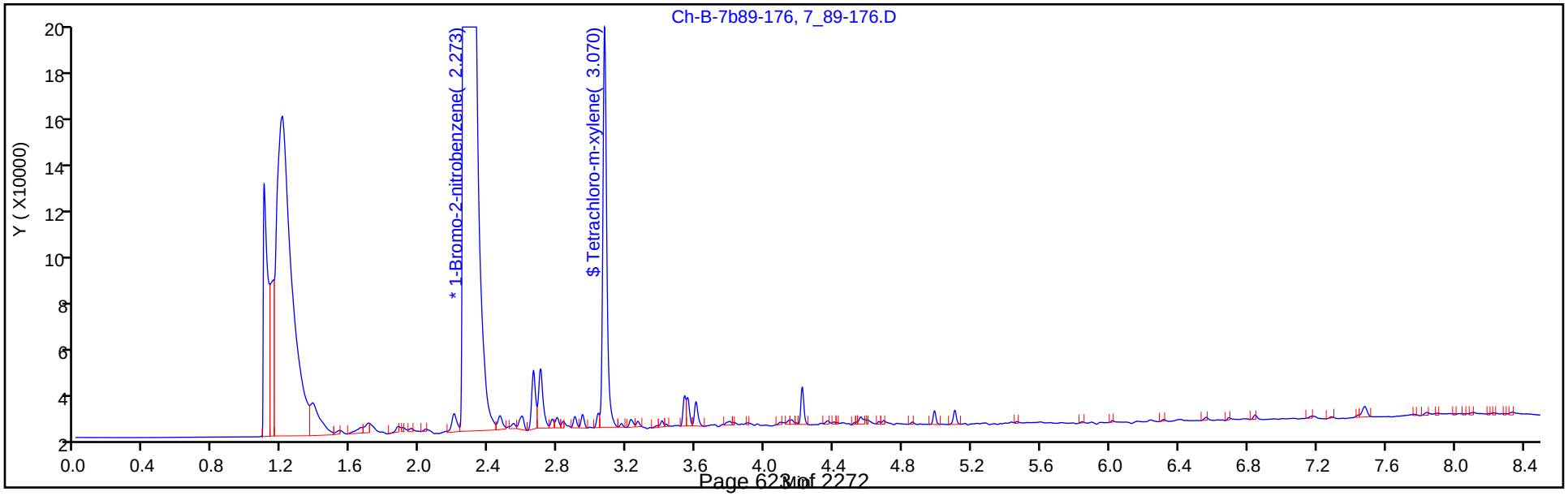
Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-176.D				
Injection Date:	18-Feb-2021 21:12:39	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-181249-B-5-A	Lab Sample ID:	480-181249-5	Worklist Smp#:	33
Client ID:	EB-20210210				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: DUP-SB (13-15) Lab Sample ID: 480-181249-6

Matrix: Solid Lab File ID: 6_084-125.D

Analysis Method: 8082A Date Collected: 02/12/2021 14:16

Extraction Method: 3550C Date Extracted: 02/19/2021 08:56

Sample wt/vol: 2.29(g) Date Analyzed: 02/21/2021 19:34

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 19.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 570176 Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	121		60-154
2051-24-3	DCB Decachlorobiphenyl	194	*	65-174

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-125.D
Lims ID: 480-181249-D-6-A
Client ID: DUP-SB (13-15)
Sample Type: Client
Inject. Date: 21-Feb-2021 19:34:52 ALS Bottle#: 0 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 22-Feb-2021 11:29:57 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1630

First Level Reviewer: chumongkolratn Date: 22-Feb-2021 11:29:57

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	0.738	0.736	0.002	3952456	0.5000	
2	0.830	0.828	0.002	12485481	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	1.330	1.326	0.004	228967	0.0243	
2	1.301	1.298	0.003	746453	0.0217	
					RPD = 10.90	
12 1260 Res 3						
1	4.654	4.662	-0.008	300	NR	
2	5.143	5.152	-0.009	6606	NR	
					RPD = NaN	
$ 15 DCB Decachlorobiphenyl						
1	5.523	5.521	0.001	148153	0.0389	
2	5.637	5.635	0.002	457585	0.0215	
					RPD = 57.47	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00073 Amount Added: 10.00 Units: uL Run Reagent

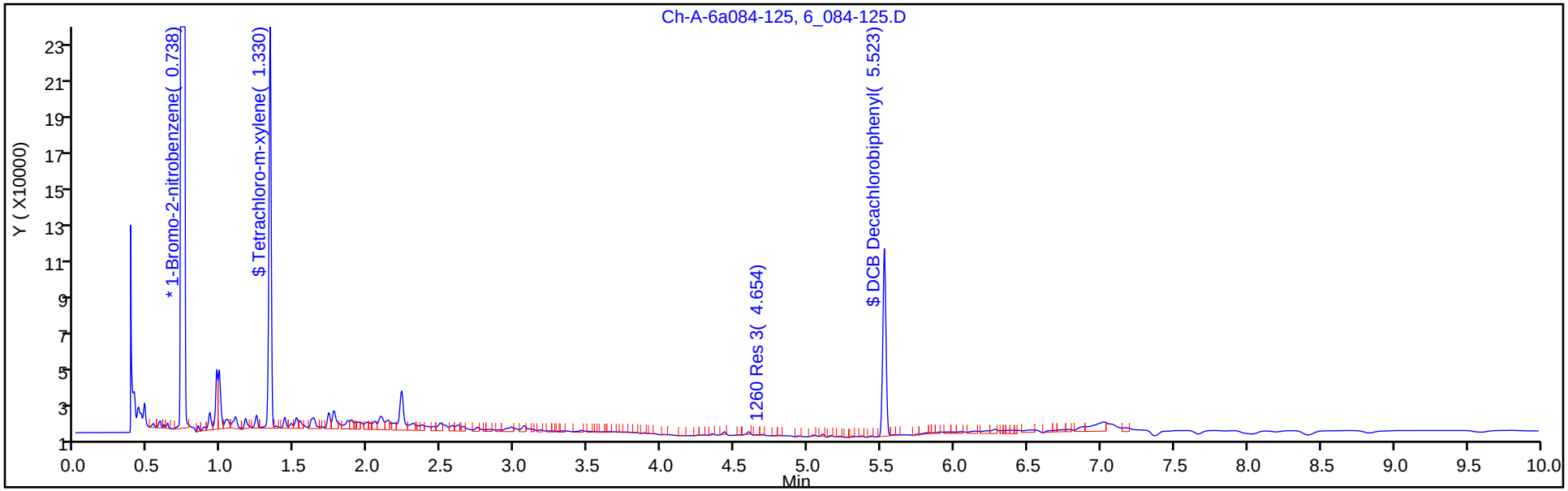
Report Date: 22-Feb-2021 11:29:58 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

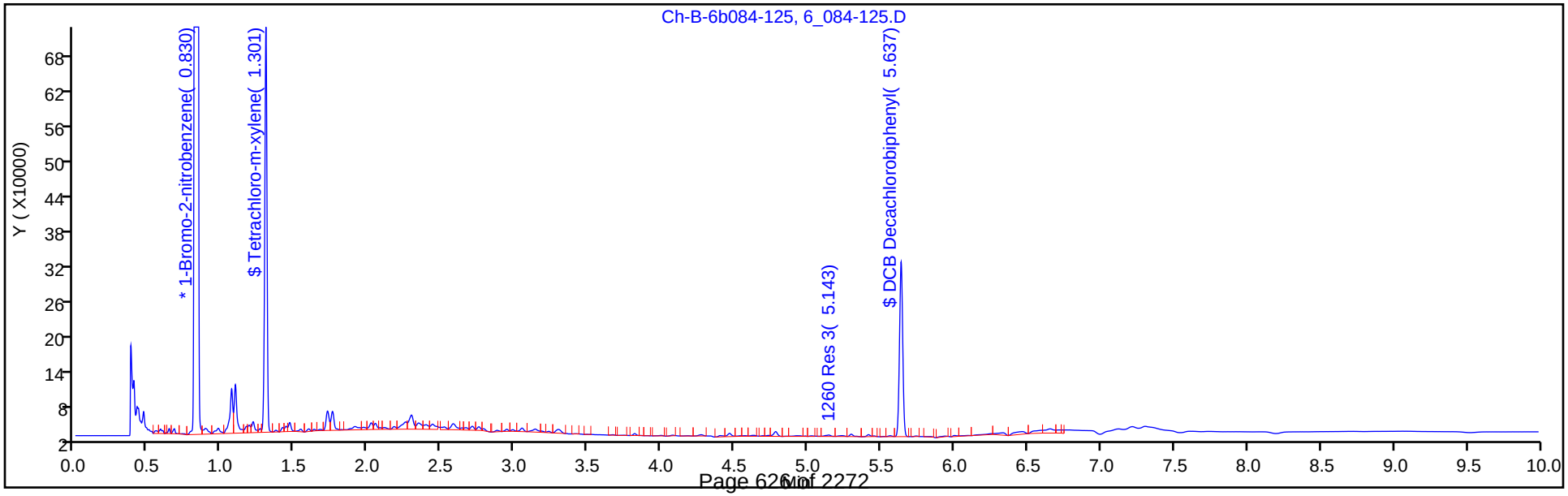
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-125.D

Injection Date:	21-Feb-2021 19:34:52	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-181249-D-6-A	Lab Sample ID:	480-181249-6	Worklist Smp#:	28
Client ID:	DUP-SB (13-15)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: DUP-SB (13-15) Lab Sample ID: 480-181249-6

Matrix: Solid Lab File ID: 6_084-125.D

Analysis Method: 8082A Date Collected: 02/12/2021 14:16

Extraction Method: 3550C Date Extracted: 02/19/2021 08:56

Sample wt/vol: 2.29(g) Date Analyzed: 02/21/2021 19:34

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 19.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 570176 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.27	U	0.27	0.053
11104-28-2	PCB-1221	0.27	U	0.27	0.053
11141-16-5	PCB-1232	0.27	U	0.27	0.053
53469-21-9	PCB-1242	0.27	U	0.27	0.053
12672-29-6	PCB-1248	0.27	U	0.27	0.053
11097-69-1	PCB-1254	0.27	U	0.27	0.13
11096-82-5	PCB-1260	0.27	U	0.27	0.13
37324-23-5	PCB-1262	0.27	U	0.27	0.13
11100-14-4	PCB-1268	0.27	U	0.27	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	109		60-154
2051-24-3	DCB Decachlorobiphenyl	108		65-174

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-125.D
Lims ID: 480-181249-D-6-A
Client ID: DUP-SB (13-15)
Sample Type: Client
Inject. Date: 21-Feb-2021 19:34:52 ALS Bottle#: 0 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 22-Feb-2021 11:29:57 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1630

First Level Reviewer: chumongkolratn Date: 22-Feb-2021 11:29:57

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	0.738	0.736	0.002	3952456	0.5000	
2	0.830	0.828	0.002	12485481	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	1.330	1.326	0.004	228967	0.0243	
2	1.301	1.298	0.003	746453	0.0217	
					RPD = 10.90	
12 1260 Res 3						
1	4.654	4.662	-0.008	300	NR	
2	5.143	5.152	-0.009	6606	NR	
					RPD = NaN	
$ 15 DCB Decachlorobiphenyl						
1	5.523	5.521	0.001	148153	0.0389	
2	5.637	5.635	0.002	457585	0.0215	
					RPD = 57.47	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00073 Amount Added: 10.00 Units: uL Run Reagent

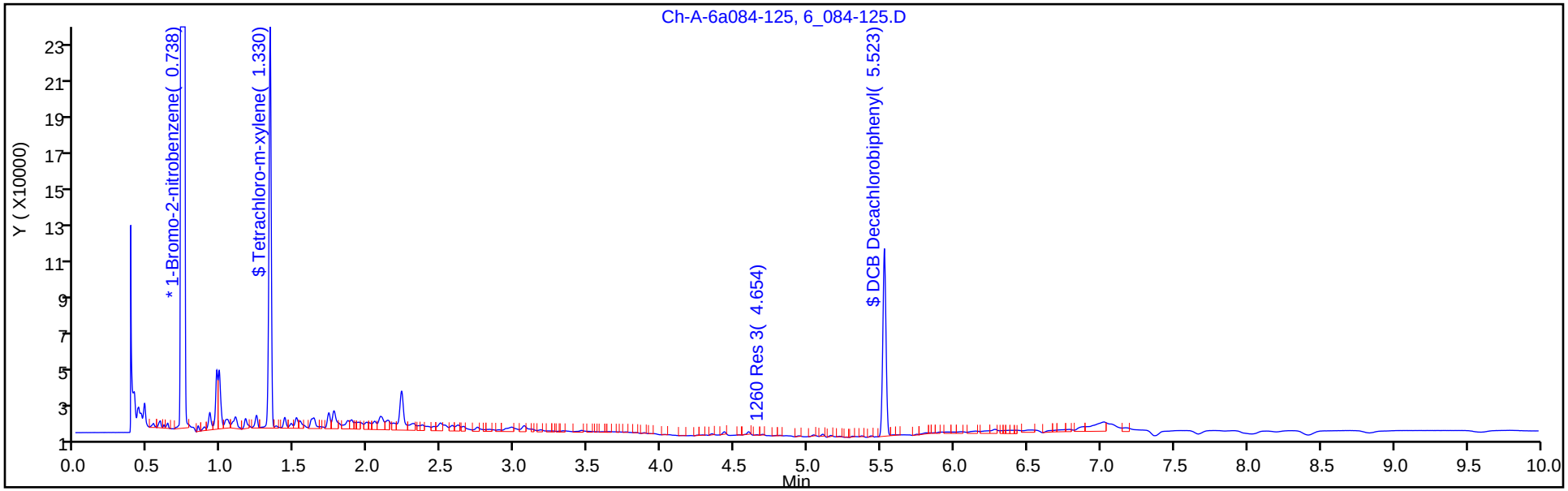
Report Date: 22-Feb-2021 11:29:58 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

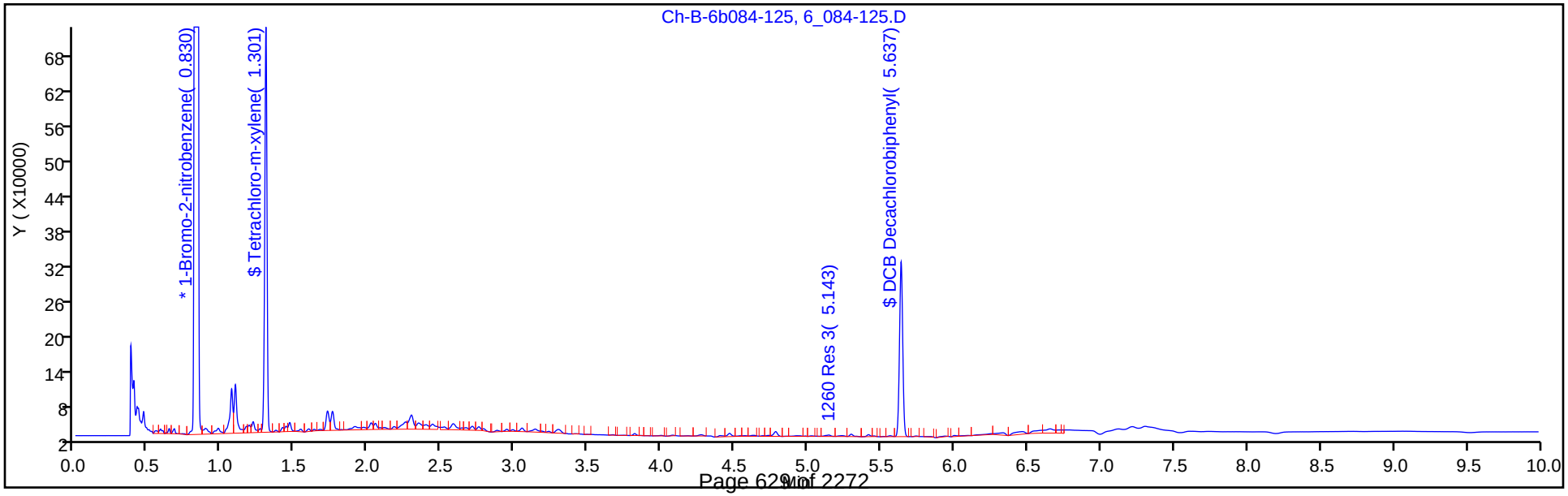
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-125.D

Injection Date:	21-Feb-2021 19:34:52	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-181249-D-6-A	Lab Sample ID:	480-181249-6	Worklist Smp#:	28
Client ID:	DUP-SB (13-15)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 563531

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/16/2020 15:33 Calibration End Date: 12/16/2020 16:47 Calibration ID: 40827

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-563531/9	6_078-301.D
Level 2	IC 480-563531/8	6_078-300.D
Level 3	IC 480-563531/7	6_078-299.D
Level 4	IC 480-563531/6	6_078-298.D
Level 5	ICIS 480-563531/5	6_078-297.D
Level 6	IC 480-563531/4	6_078-296.D
Level 7	IC 480-563531/3	6_078-295.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0346 0.0269	0.0327 0.0245	0.0325	0.0303	0.0273	Ave		0.0298				12.4		20.0			
PCB-1016 Peak 2	0.1091 0.0943	0.1009 0.0890	0.1009	0.0979	0.0925	Lin1	0.0006	0.0908				5.8			0.9990		0.9900
PCB-1016 Peak 3	0.0425 0.0353	0.0404 0.0328	0.0407	0.0383	0.0352	Lin1	0.0003	0.0338				11.8			0.9980		0.9900
PCB-1016 Peak 4	0.0330 0.0245	0.0293 0.0230	0.0287	0.0266	0.0244	Lin1	0.0003	0.0235				10.5			0.9980		0.9900
PCB-1016 Peak 5	0.0310 0.0261	0.0294 0.0244	0.0307	0.0283	0.0261	Lin1	0.0002	0.0251				12.3			0.9980		0.9900
PCB-1260 Peak 1	0.0330 0.0299	0.0313 0.0285	0.0332	0.0313	0.0292	Lin1	0.0002	0.0290				7.4			0.9990		0.9900
PCB-1260 Peak 2	0.0671 0.0560	0.0533 0.0532	0.0607	0.0578	0.0540	Lin1	0.0003	0.0540				6.6			0.9990		0.9900
PCB-1260 Peak 3	0.0833 0.0646	0.0702 0.0619	0.0694	0.0666	0.0623	Lin1	0.0005	0.0625				3.3			1.0000		0.9900
PCB-1260 Peak 4	0.0629 0.0398	0.0495 0.0377	0.0467	0.0431	0.0385	Lin1	0.0006	0.0381				6.9			0.9990		0.9900
PCB-1260 Peak 5	0.1188 0.0932	0.1012 0.0898	0.0988	0.0962	0.0901	Lin1	0.0006	0.0905				2.7			1.0000		0.9900
Tetrachloro-m-xylene	1.3828 1.1778	1.3135 1.1091	1.3146	1.2653	1.1639	Lin2	0.0001	1.1898				5.3			0.9970		0.9900
DCB Decachlorobiphenyl	0.5509 0.4351	0.5106 0.3739	0.5341	0.5155	0.4560	Ave		0.4823				13.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 563531

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/16/2020 15:33 Calibration End Date: 12/16/2020 16:47 Calibration ID: 40827

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-563531/9	6_078-301.D
Level 2	IC 480-563531/8	6_078-300.D
Level 3	IC 480-563531/7	6_078-299.D
Level 4	IC 480-563531/6	6_078-298.D
Level 5	ICIS 480-563531/5	6_078-297.D
Level 6	IC 480-563531/4	6_078-296.D
Level 7	IC 480-563531/3	6_078-295.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Ave	5915 217651	14510 430660	27860	50860	118515	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 2	BNB	Lin1	18661 762418	44779 1563214	86568	164265	401939	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 3	BNB	Lin1	7263 285159	17924 576294	34891	64232	152829	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 4	BNB	Lin1	5638 198266	13021 404134	24577	44726	106000	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 5	BNB	Lin1	5293 210821	13061 428644	26291	47558	113451	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 1	BNB	Lin1	5642 241755	13909 501446	28462	52565	126876	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 2	BNB	Lin1	11473 452567	23663 934327	52045	97032	234574	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 3	BNB	Lin1	14250 522598	31162 1087717	59542	111779	270526	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 4	BNB	Lin1	10752 321668	21985 661728	40029	72383	167339	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 5	BNB	Lin1	20318 753662	44937 1578017	84745	161409	391352	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
Tetrachloro-m-xylene	BNB	Lin2	5911 238107	14576 487264	28190	53098	126369	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125
DCB Decachlorobiphenyl	BNB	Ave	2355 87962	5666 164282	11454	21634	49513	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-295.D
Lims ID: IC level 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 16-Dec-2020 15:33:01 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 17-Dec-2020 13:46:07 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1645

First Level Reviewer: clarkda Date: 16-Dec-2020 16:29:55

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.753	0.753	0.000	4393394	0.5000	0.5000	
2	0.848	0.848	0.000	11894453	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	1.354	1.354	0.000	487264	0.0500	0.0465	
2	1.327	1.327	0.000	1500617	0.0500	0.0460	
						RPD = 1.03	
6 PCB-1016							
1	1.958	1.958	0.000	430660	2.00	1.64	
1	2.138	2.138	0.000	1563214	2.00	1.95	
1	2.209	2.209	0.000	576294	2.00	1.93	
1	2.263	2.263	0.000	404134	2.00	1.94	
1	2.620	2.620	0.000	428644	2.00	1.93	
		Average of Peak Amounts =				1.88	
2	2.268	2.268	0.000	4352967	2.00	1.77	
2	2.374	2.374	0.000	1698135	2.00	1.77	
2	2.463	2.463	0.000	1182899	2.00	1.81	
2	2.729	2.729	0.000	1919029	2.00	1.73	
2	2.825	2.825	0.000	1402594	2.00	1.81	
		Average of Peak Amounts =				1.78	
						RPD = 5.57	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							
1	3.473	3.473	0.000	501446	2.00	1.96	
1	3.653	3.653	0.000	934327	2.00	1.96	
1	3.863	3.863	0.000	1087717	2.00	1.97	
1	4.167	4.167	0.000	661728	2.00	1.96	
1	4.373	4.373	0.000	1578017	2.00	1.98	
		Average of Peak Amounts =				1.97	
2	3.642	3.642	0.000	2499339	2.00	1.93	
2	3.748	3.748	0.000	2660195	2.00	1.90	
2	4.050	4.050	0.000	2520314	2.00	1.96	
2	4.488	4.488	0.000	5042584	2.00	1.93	
2	4.808	4.808	0.000	3372419	2.00	1.85	
		Average of Peak Amounts =				1.92	
						RPD = 2.68	
9 1260 Res 1							
1	4.595	4.595	0.000	626786	NR	NR	
2	4.808	4.808	0.000	3372419	NR	NR	
						RPD = NaN	
14 1260 Res 2							
1	4.657	4.657	0.000	271560	NR	NR	
2	5.133	5.133	0.000	597615	NR	NR	
						RPD = NaN	
12 1260 Res 3							
1	4.698	4.698	0.000	322704	NR	NR	
2	5.196	5.196	0.000	1433007	NR	NR	
						RPD = NaN	
$ 15 DCB Decachlorobiphenyl							
1	5.558	5.558	0.000	164282	0.0500	0.0388	
2	5.680	5.680	0.000	908678	0.0500	0.0451	
						RPD = 15.07	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

1660sur/is2.0_00021 Amount Added: 1.00 Units: mL

Report Date: 17-Dec-2020 13:46:07 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-295.D

Injection Date: 16-Dec-2020 15:33:01 Instrument ID: HP6890-6 Operator ID: BufTCHROM

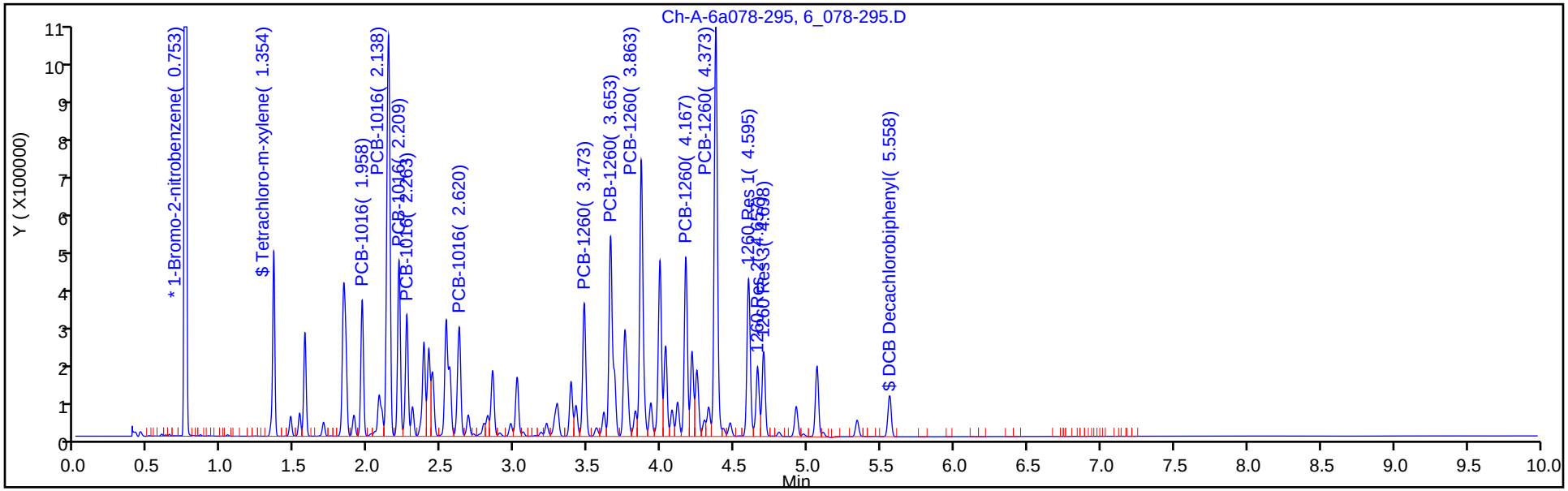
Lims ID: IC level 7 Worklist Smp#: 3

Client ID:

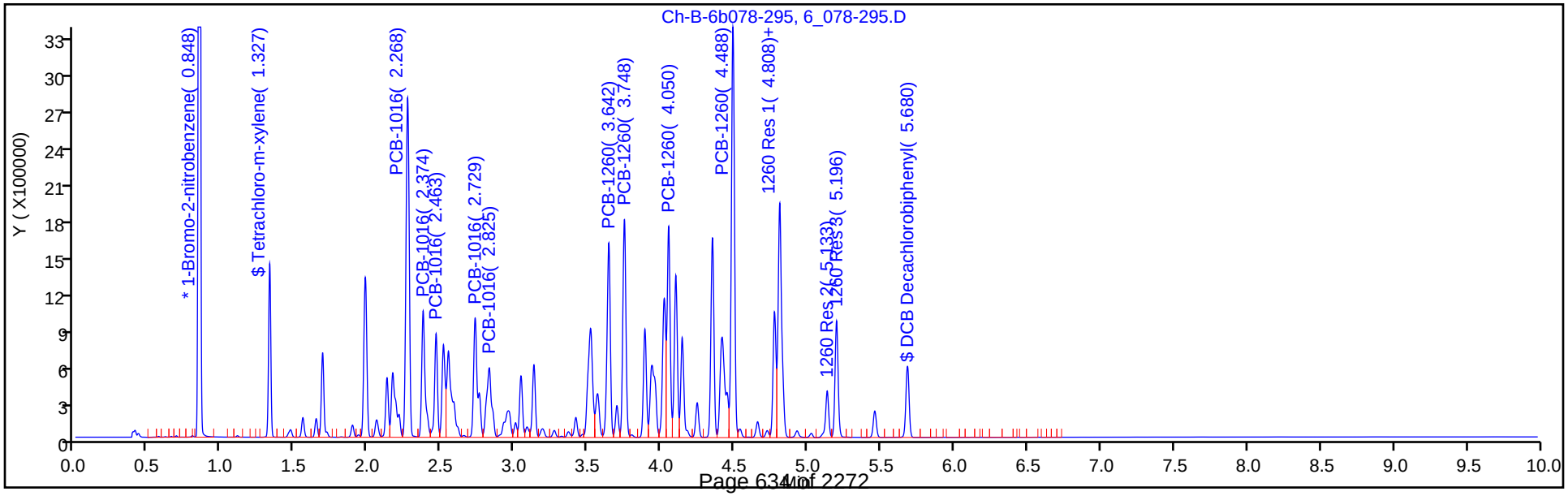
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-296.D
Lims ID: IC level 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 16-Dec-2020 15:45:24 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 17-Dec-2020 13:46:09 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1645

First Level Reviewer: clarkda Date: 16-Dec-2020 17:06:03

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.753	0.753	0.000	4043321	0.5000	0.5000	
2	0.850	0.848	0.002	10977480	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	1.355	1.354	0.001	238107	0.0250	0.0247	
2	1.328	1.327	0.001	747811	0.0250	0.0248	M
						RPD = 0.57	
6 PCB-1016							M
1	1.958	1.958	0.000	217651	1.00	0.9024	
1	2.137	2.138	-0.001	762418	1.00	1.03	
1	2.209	2.209	0.000	285159	1.00	1.03	
1	2.263	2.263	0.000	198266	1.00	1.03	
1	2.620	2.620	0.000	210821	1.00	1.03	
		Average of Peak Amounts =				1.01	
2	2.269	2.268	0.001	2222423	1.00	0.9768	M
2	2.375	2.374	0.001	867262	1.00	0.9758	M
2	2.463	2.463	0.001	584321	1.00	0.9676	M
2	2.730	2.729	0.001	963203	1.00	0.9413	M
2	2.826	2.825	0.001	696644	1.00	0.9721	M
		Average of Peak Amounts =				0.9667	
						RPD = 3.94	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	3.472	3.473	-0.001	241755	1.00	1.02	
1	3.653	3.653	-0.001	452567	1.00	1.03	
1	3.862	3.863	0.000	522598	1.00	1.03	
1	4.167	4.167	0.000	321668	1.00	1.03	
1	4.372	4.373	0.000	753662	1.00	1.02	
		Average of Peak Amounts =				1.03	
2	3.643	3.642	0.000	1228039	1.00	1.02	M
2	3.748	3.748	0.000	1118459	1.00	0.8632	M
2	4.050	4.050	0.000	1191814	1.00	1.00	M
2	4.489	4.488	0.001	2496539	1.00	1.03	M
2	4.808	4.808	0.000	1657443	1.00	0.9842	M
		Average of Peak Amounts =				0.9805	
						RPD = 4.66	
9 1260 Res 1							M
1	4.594	4.595	-0.001	298087	NR	NR	
2	4.808	4.808	0.000	1657443	NR	NR	M
						RPD = NaN	
14 1260 Res 2							M
1	4.657	4.657	0.000	130032	NR	NR	
2	5.133	5.133	0.000	298759	NR	NR	M
						RPD = NaN	
12 1260 Res 3							M
1	4.698	4.698	0.000	155705	NR	NR	
2	5.196	5.196	0.000	710007	NR	NR	M
						RPD = NaN	
$ 15 DCB Decachlorobiphenyl							M
1	5.558	5.558	0.000	87962	0.0250	0.0226	
2	5.681	5.680	0.001	454354	0.0250	0.0243	M
						RPD = 7.55	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

1660sur/is1.0_00020 Amount Added: 1.00 Units: mL

Report Date: 17-Dec-2020 13:46:09 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-296.D

Injection Date: 16-Dec-2020 15:45:24 Instrument ID: HP6890-6 Operator ID: BufTCHROM

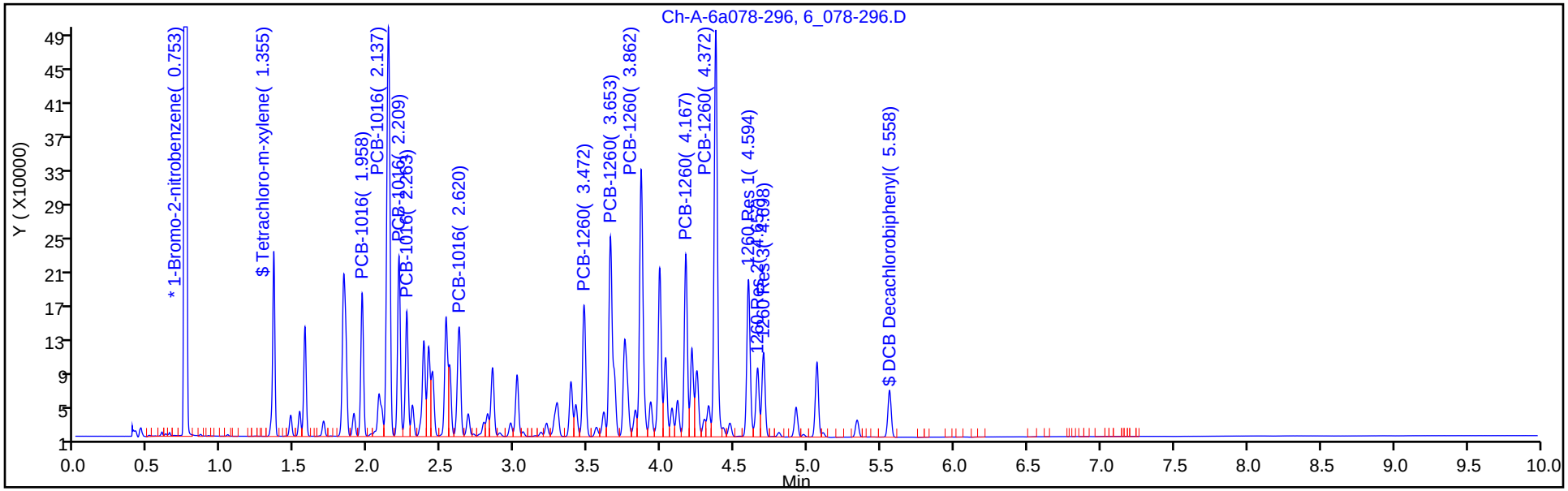
Lims ID: IC level 6 Worklist Smp#: 4

Client ID:

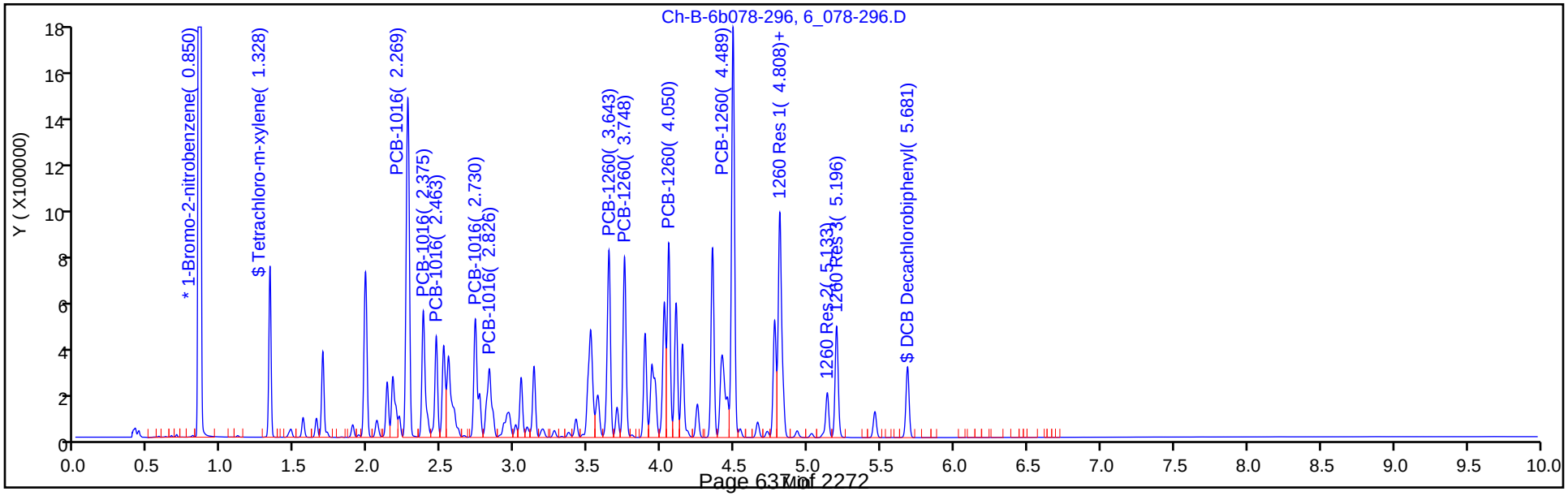
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-297.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 16-Dec-2020 15:57:46 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 17-Dec-2020 13:46:11 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1645

First Level Reviewer: clarkda Date: 16-Dec-2020 17:04:53

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.754	0.754	0.000	4342954	0.5000	0.5000	
2	0.850	0.850	0.000	11779301	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	1.356	1.356	0.000	126369	0.0125	0.0121	
2	1.329	1.329	0.000	405053	0.0125	0.0124	
						RPD = 2.56	
6 PCB-1016							
1	1.958	1.958	0.000	118515	0.5000	0.4575	
1	2.138	2.138	0.000	401939	0.5000	0.5034	
1	2.210	2.210	0.000	152829	0.5000	0.5111	
1	2.263	2.263	0.000	106000	0.5000	0.5067	
1	2.621	2.621	0.000	113451	0.5000	0.5113	
		Average of Peak Amounts =				0.4980	
2	2.271	2.271	0.000	1226320	0.5000	0.4998	
2	2.376	2.376	0.000	475894	0.5000	0.4955	
2	2.464	2.464	0.000	324479	0.5000	0.4977	
2	2.730	2.730	0.000	523453	0.5000	0.4768	
2	2.827	2.827	0.000	380186	0.5000	0.4911	
		Average of Peak Amounts =				0.4922	
						RPD = 1.17	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							
1	3.474	3.474	0.000	126876	0.5000	0.4981	
1	3.654	3.654	0.000	234574	0.5000	0.4949	
1	3.864	3.864	0.000	270526	0.5000	0.4912	
1	4.168	4.168	0.000	167339	0.5000	0.4909	
1	4.373	4.373	0.000	391352	0.5000	0.4913	
		Average of Peak Amounts =				0.4933	
2	3.643	3.643	0.000	675169	0.5000	0.5194	
2	3.749	3.749	0.000	711724	0.5000	0.5090	
2	4.052	4.052	0.000	671300	0.5000	0.5196	
2	4.490	4.490	0.000	1357333	0.5000	0.5185	
2	4.809	4.809	0.000	892689	0.5000	0.4911	
		Average of Peak Amounts =				0.5115	
						RPD = 3.63	
9 1260 Res 1							
1	4.597	4.597	0.000	157200	NR	NR	
2	4.809	4.809	0.000	892689	NR	NR	
						RPD = NaN	
14 1260 Res 2							
1	4.658	4.658	0.000	71266	NR	NR	
2	5.133	5.133	0.000	166731	NR	NR	
						RPD = NaN	
12 1260 Res 3							
1	4.699	4.699	0.000	82957	NR	NR	
2	5.196	5.196	0.000	383724	NR	NR	
						RPD = NaN	
$ 15 DCB Decachlorobiphenyl							
1	5.559	5.559	0.000	49513	0.0125	0.0118	
2	5.680	5.680	0.000	246542	0.0125	0.0122	
						RPD = 3.08	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

1660sur/is0.5_00124 Amount Added: 1.00 Units: mL

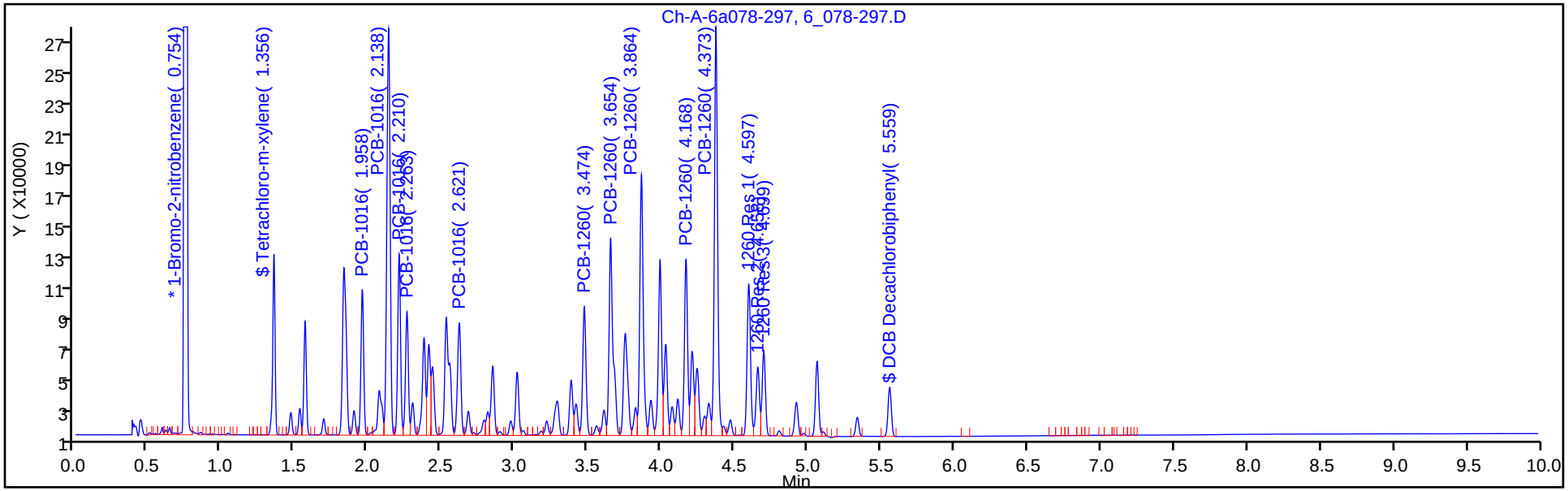
Report Date: 17-Dec-2020 13:46:12 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

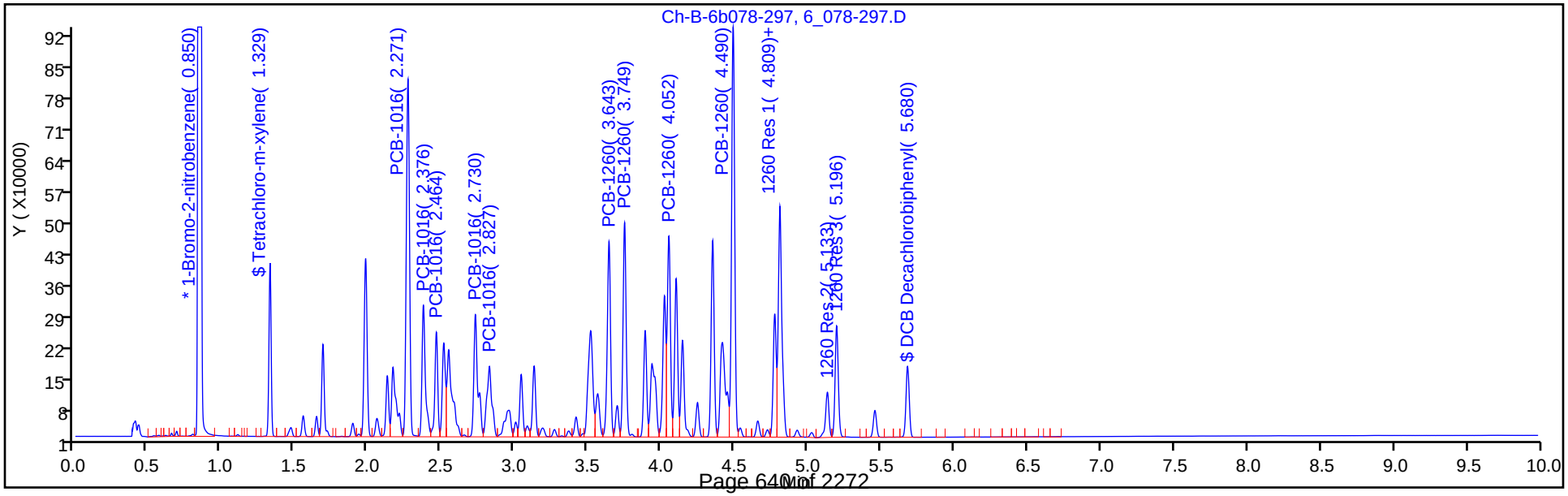
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-297.D

Injection Date:	16-Dec-2020 15:57:46	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	ICIS			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-298.D
Lims ID: IC level 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 16-Dec-2020 16:10:01 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 17-Dec-2020 13:46:14 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1645

First Level Reviewer: clarkda Date: 16-Dec-2020 17:04:11

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.754	0.754	0.000	4196352	0.5000	0.5000	
2	0.851	0.850	0.001	11384265	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	1.356	1.356	0.000	53098	0.005000	0.005223	
2	1.329	1.329	0.000	168446	0.005000	0.005278	
						RPD = 1.05	
6 PCB-1016							
1	1.958	1.958	0.000	50860	0.2000	0.2032	
1	2.138	2.138	0.000	164265	0.2000	0.2094	
1	2.210	2.210	0.000	64232	0.2000	0.2169	
1	2.263	2.263	0.000	44726	0.2000	0.2145	
1	2.620	2.621	-0.001	47558	0.2000	0.2166	
		Average of Peak Amounts =				0.2122	
2	2.270	2.271	-0.001	514105	0.2000	0.2140	
2	2.377	2.376	0.001	200495	0.2000	0.2120	
2	2.464	2.464	0.000	135126	0.2000	0.2109	
2	2.731	2.730	0.001	223160	0.2000	0.2103	
2	2.828	2.827	0.001	160210	0.2000	0.2103	
		Average of Peak Amounts =				0.2115	
						RPD = 0.30	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							
1	3.474	3.474	0.000	52565	0.2000	0.2106	
1	3.653	3.654	-0.001	97032	0.2000	0.2090	
1	3.864	3.864	0.000	111779	0.2000	0.2058	
1	4.168	4.168	0.000	72383	0.2000	0.2112	
1	4.373	4.373	0.000	161409	0.2000	0.2058	
		Average of Peak Amounts =				0.2085	
2	3.643	3.643	0.000	282933	0.2000	0.2189	
2	3.749	3.749	0.000	301901	0.2000	0.2194	
2	4.052	4.052	0.000	278714	0.2000	0.2173	
2	4.490	4.490	0.000	561372	0.2000	0.2171	
2	4.808	4.809	-0.001	375765	0.2000	0.2106	
		Average of Peak Amounts =				0.2167	
						RPD = 3.84	
9 1260 Res 1							
1	4.597	4.597	0.000	66929	NR	NR	
2	4.808	4.809	-0.001	375765	NR	NR	
						RPD = NaN	
14 1260 Res 2							
1	4.658	4.658	0.000	30744	NR	NR	
2	5.133	5.133	0.000	80211	NR	NR	
						RPD = NaN	
12 1260 Res 3							
1	4.699	4.699	0.000	39342	NR	NR	
2	5.197	5.196	0.001	167054	NR	NR	
						RPD = NaN	
$ 15 DCB Decachlorobiphenyl							
1	5.558	5.559	-0.001	21634	0.005000	0.005344	
2	5.682	5.680	0.002	106368	0.005000	0.005317	
						RPD = 0.51	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

1660sur/is0.2_00019 Amount Added: 1.00 Units: mL

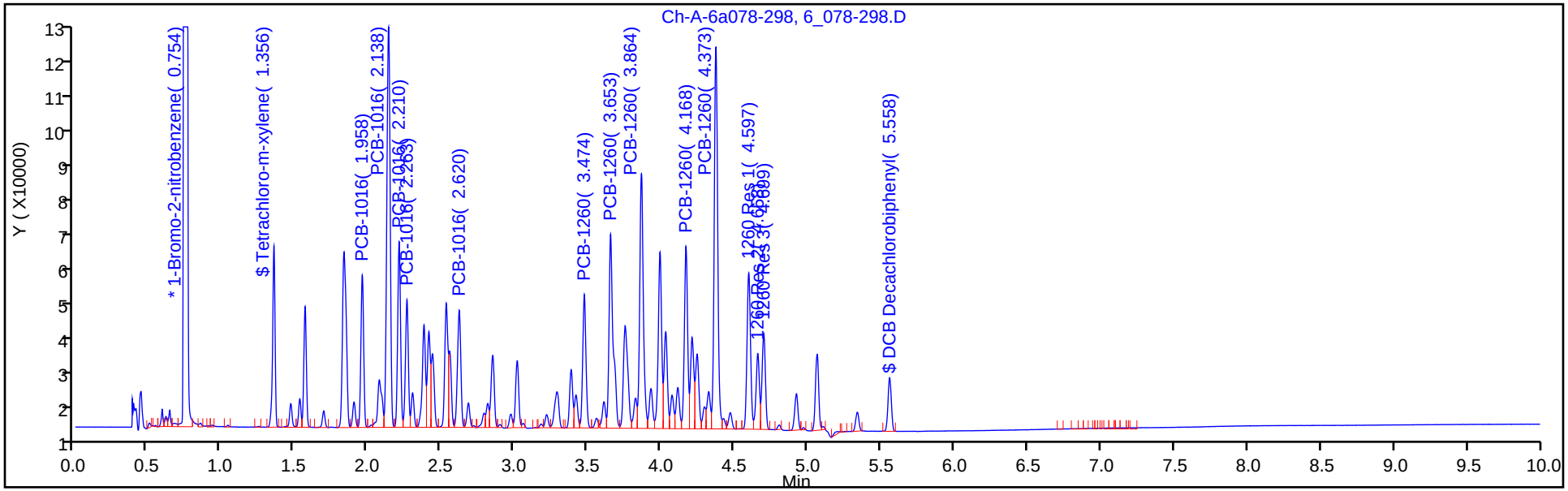
Report Date: 17-Dec-2020 13:46:14 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

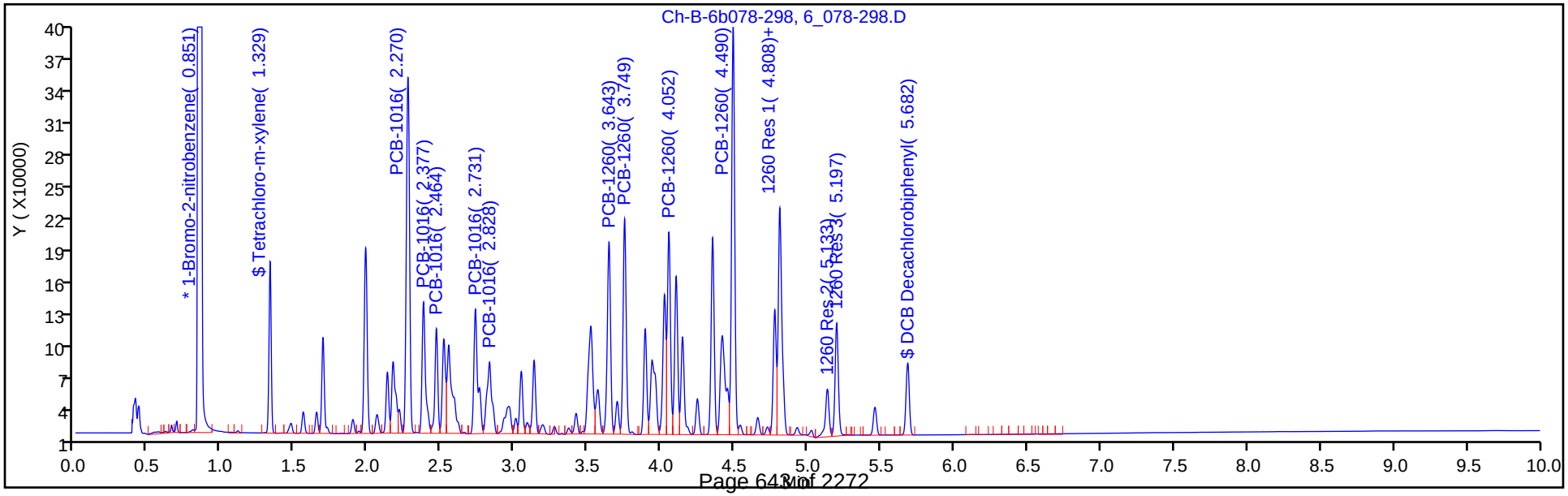
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-298.D

Injection Date:	16-Dec-2020 16:10:01	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC level 4			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-299.D
Lims ID: IC level 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 16-Dec-2020 16:22:23 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 17-Dec-2020 13:46:16 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1645

First Level Reviewer: clarkda Date: 16-Dec-2020 17:11:28

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.753	0.754	-0.001	4288839	0.5000	0.5000	
2	0.850	0.850	0.000	11634393	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	1.355	1.356	-0.001	28190	0.002500	0.002668	
2	1.329	1.329	0.000	87609	0.002500	0.002619	
						RPD = 1.85	
6 PCB-1016							
1	1.958	1.958	0.000	27860	0.1000	0.1089	
1	2.138	2.138	0.000	86568	0.1000	0.1050	
1	2.209	2.210	-0.001	34891	0.1000	0.1108	
1	2.263	2.263	-0.001	24577	0.1000	0.1098	
1	2.619	2.621	-0.002	26291	0.1000	0.1130	
		Average of Peak Amounts =				0.1095	
2	2.270	2.271	-0.001	269670	0.1000	0.1074	
2	2.376	2.376	0.000	108272	0.1000	0.1087	
2	2.464	2.464	0.000	72735	0.1000	0.1082	
2	2.731	2.730	0.001	119943	0.1000	0.1106	
2	2.826	2.827	-0.001	86945	0.1000	0.1085	
		Average of Peak Amounts =				0.1087	
						RPD = 0.79	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							
1	3.473	3.474	-0.001	28462	0.1000	0.1091	
1	3.653	3.654	-0.002	52045	0.1000	0.1073	
1	3.863	3.864	-0.002	59542	0.1000	0.1037	
1	4.168	4.168	0.000	40029	0.1000	0.1073	
1	4.372	4.373	0.000	84745	0.1000	0.1024	
		Average of Peak Amounts =				0.1060	
2	3.642	3.643	0.000	148980	0.1000	0.1074	
2	3.748	3.749	-0.001	155234	0.1000	0.1069	
2	4.051	4.052	-0.001	147497	0.1000	0.1076	
2	4.490	4.490	0.000	293345	0.1000	0.1069	
2	4.808	4.809	-0.001	197594	0.1000	0.1055	
		Average of Peak Amounts =				0.1068	
						RPD = 0.83	
9 1260 Res 1							
1	4.595	4.597	-0.002	35956	NR	NR	
2	4.808	4.809	-0.001	197594	NR	NR	
						RPD = NaN	
14 1260 Res 2							
1	4.658	4.658	0.000	16740	NR	NR	
2	5.132	5.133	-0.001	43533	NR	NR	
						RPD = NaN	
12 1260 Res 3							
1	4.698	4.699	-0.001	19292	NR	NR	
2	5.197	5.196	0.001	88130	NR	NR	
						RPD = NaN	
$ 15 DCB Decachlorobiphenyl							
1	5.558	5.559	-0.001	11454	0.002500	0.002769	
2	5.681	5.680	0.001	56977	0.002500	0.002681	
						RPD = 3.23	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

1660sur/is0.1_00020 Amount Added: 1.00 Units: mL

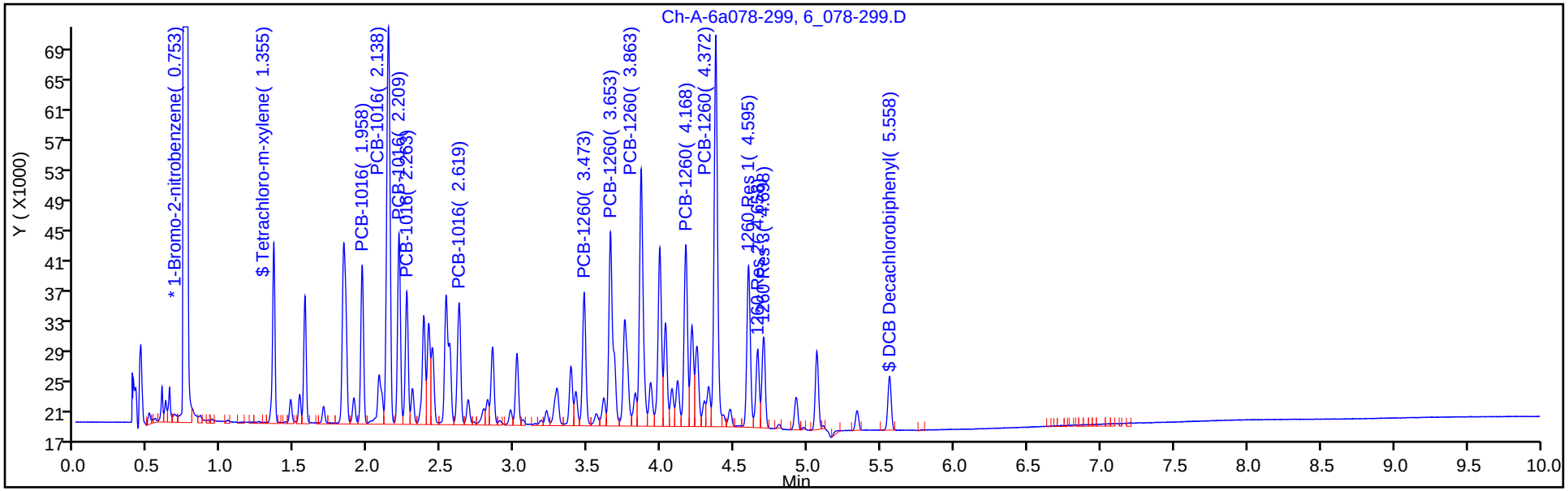
Report Date: 17-Dec-2020 13:46:16 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

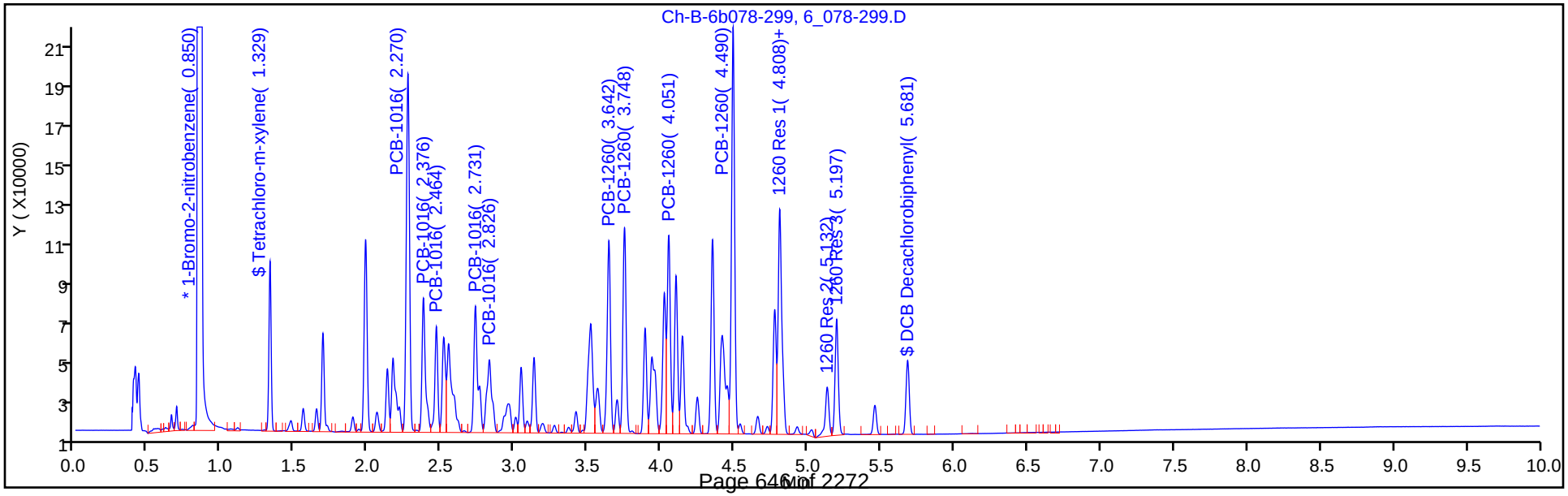
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-299.D

Injection Date:	16-Dec-2020 16:22:23	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC level 3			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-300.D
Lims ID: IC level 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 16-Dec-2020 16:34:56 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 17-Dec-2020 13:46:18 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1645

First Level Reviewer: clarkda Date: 16-Dec-2020 17:06:49

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.755	0.754	0.001	4438718	0.5000	0.5000	
2	0.851	0.850	0.001	11963303	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	1.357	1.356	0.001	14576	0.001250	0.001285	
2	1.329	1.329	0.000	45524	0.001250	0.001255	M
						RPD = 2.37	
6 PCB-1016							M
1	1.960	1.958	0.002	14510	0.0500	0.0548	
1	2.138	2.138	0.000	44779	0.0500	0.0495	
1	2.211	2.210	0.001	17924	0.0500	0.0502	
1	2.263	2.263	0.000	13021	0.0500	0.0504	
1	2.622	2.621	0.001	13061	0.0500	0.0495	
		Average of Peak Amounts =				0.0509	
2	2.270	2.271	-0.001	138937	0.0500	0.0513	M
2	2.376	2.376	0.000	56739	0.0500	0.0519	M
2	2.464	2.464	0.000	37533	0.0500	0.0512	M
2	2.731	2.730	0.001	62223	0.0500	0.0558	M
2	2.826	2.827	-0.001	45506	0.0500	0.0519	M
		Average of Peak Amounts =				0.0524	
						RPD = 2.98	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	3.474	3.474	0.000	13909	0.0500	0.0488	
1	3.654	3.654	0.000	23663	0.0500	0.0443	
1	3.863	3.864	-0.001	31162	0.0500	0.0488	
1	4.168	4.168	0.000	21985	0.0500	0.0497	
1	4.373	4.373	0.000	44937	0.0500	0.0491	
		Average of Peak Amounts =				0.0481	
2	3.643	3.643	0.000	79235	0.0500	0.0501	
2	3.749	3.749	0.000	82536	0.0500	0.0519	
2	4.052	4.052	0.000	77516	0.0500	0.0499	M
2	4.489	4.490	-0.001	150289	0.0500	0.0490	M
2	4.809	4.809	0.000	103964	0.0500	0.0511	M
		Average of Peak Amounts =				0.0504	
						RPD = 4.60	
9 1260 Res 1							M
1	4.596	4.597	-0.001	21215	NR	NR	
2	4.809	4.809	0.000	103964	NR	NR	M
						RPD = NaN	
14 1260 Res 2							M
1	4.658	4.658	0.000	9876	NR	NR	
2	5.133	5.133	-0.001	19187	NR	NR	M
						RPD = NaN	
12 1260 Res 3							M
1	4.698	4.699	-0.001	11233	NR	NR	
2	5.198	5.196	0.002	45637	NR	NR	M
						RPD = NaN	
$ 15 DCB Decachlorobiphenyl							M
1	5.558	5.559	-0.001	5666	0.001250	0.001323	
2	5.682	5.680	0.002	31115	0.001250	0.001319	M
						RPD = 0.33	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.05_00020 Amount Added: 1.00 Units: mL

Report Date: 17-Dec-2020 13:46:19 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-300.D

Injection Date: 16-Dec-2020 16:34:56 Instrument ID: HP6890-6 Operator ID: BufTCHROM

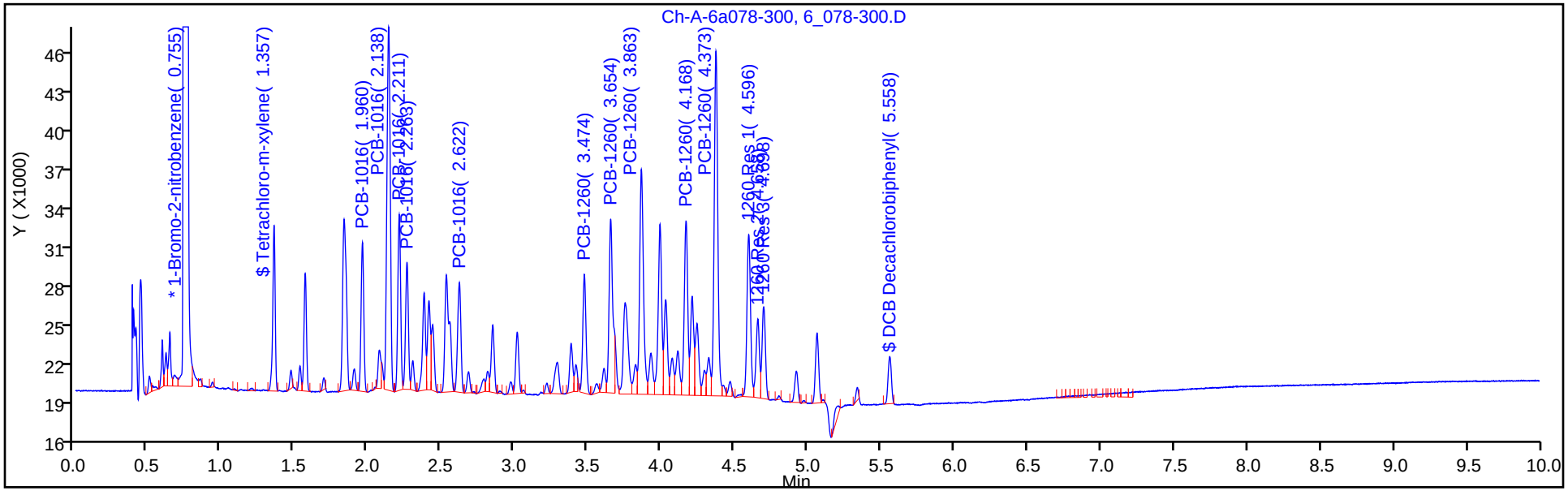
Lims ID: IC level 2 Worklist Smp#: 8

Client ID:

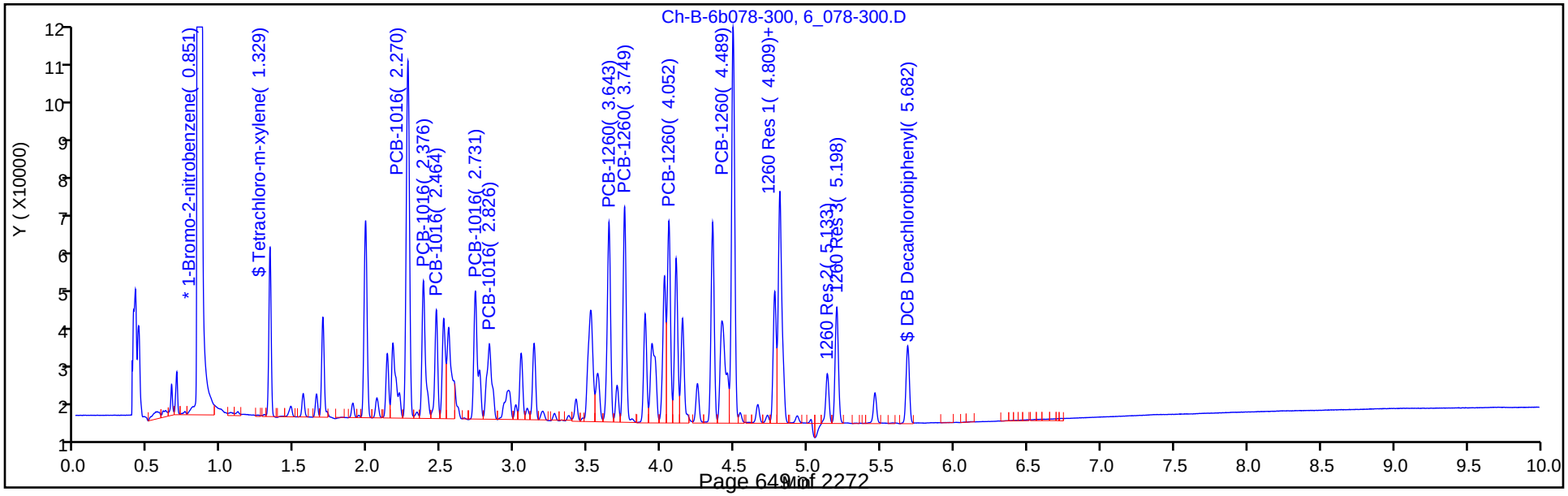
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-301.D
Lims ID: IC level 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 16-Dec-2020 16:47:14 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 17-Dec-2020 13:46:21 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1645

First Level Reviewer: clarkda Date: 16-Dec-2020 17:05:30

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.753	0.753	0.000	4274618	0.5000	0.5000	
2	0.849	0.849	0.000	11594825	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	1.353	1.353	0.000	5911	0.000500	0.000486	
2	1.328	1.328	0.000	19945	0.000500	0.000492	M
						RPD = 1.17	
6 PCB-1016							M
1	1.957	1.957	0.000	5915	0.0200	0.0232	
1	2.138	2.138	0.000	18661	0.0200	0.0180	
1	2.209	2.209	0.000	7263	0.0200	0.0156	
1	2.261	2.261	0.000	5638	0.0200	0.0161	
1	2.620	2.620	0.000	5293	0.0200	0.0155	M
		Average of Peak Amounts =				0.0177	
2	2.269	2.269	0.000	58431	0.0200	0.0194	M
2	2.375	2.375	0.000	24554	0.0200	0.0193	M
2	2.463	2.463	0.000	16245	0.0200	0.0194	M
2	2.730	2.730	0.000	20884	0.0200	0.0193	M
2	2.826	2.826	0.000	19583	0.0200	0.0193	M
		Average of Peak Amounts =				0.0193	
						RPD = 8.91	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	3.473	3.473	0.000	5642	0.0200	0.0176	
1	3.653	3.653	0.000	11473	0.0200	0.0198	M
1	3.863	3.863	0.000	14250	0.0200	0.0192	
1	4.167	4.167	0.000	10752	0.0200	0.0177	
1	4.371	4.371	0.000	20318	0.0200	0.0194	
		Average of Peak Amounts =				0.0187	
2	3.642	3.642	0.000	33999	0.0200	0.0160	M
2	3.748	3.748	0.000	35782	0.0200	0.0193	M
2	4.050	4.050	0.000	33353	0.0200	0.0164	M
2	4.489	4.489	0.000	63622	0.0200	0.0166	M
2	4.809	4.809	0.000	44879	0.0200	0.0195	M
		Average of Peak Amounts =				0.0176	
						RPD = 6.48	
9 1260 Res 1							M
1	4.595	4.595	0.000	7767	NR	NR	
2	4.809	4.809	0.000	44879	NR	NR	M
						RPD = NaN	
14 1260 Res 2							M
1	4.658	4.658	0.000	3571	NR	NR	
2	5.132	5.132	0.000	7898	NR	NR	M
						RPD = NaN	
12 1260 Res 3							M
1	4.698	4.698	0.000	4061	NR	NR	
2	5.197	5.197	0.000	19602	NR	NR	M
						RPD = NaN	
$ 15 DCB Decachlorobiphenyl							M
1	5.558	5.558	0.000	2355	0.000500	0.000571	M
2	5.681	5.681	0.000	13752	0.000500	0.000480	M
						RPD = 17.37	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.02_00021 Amount Added: 1.00 Units: mL

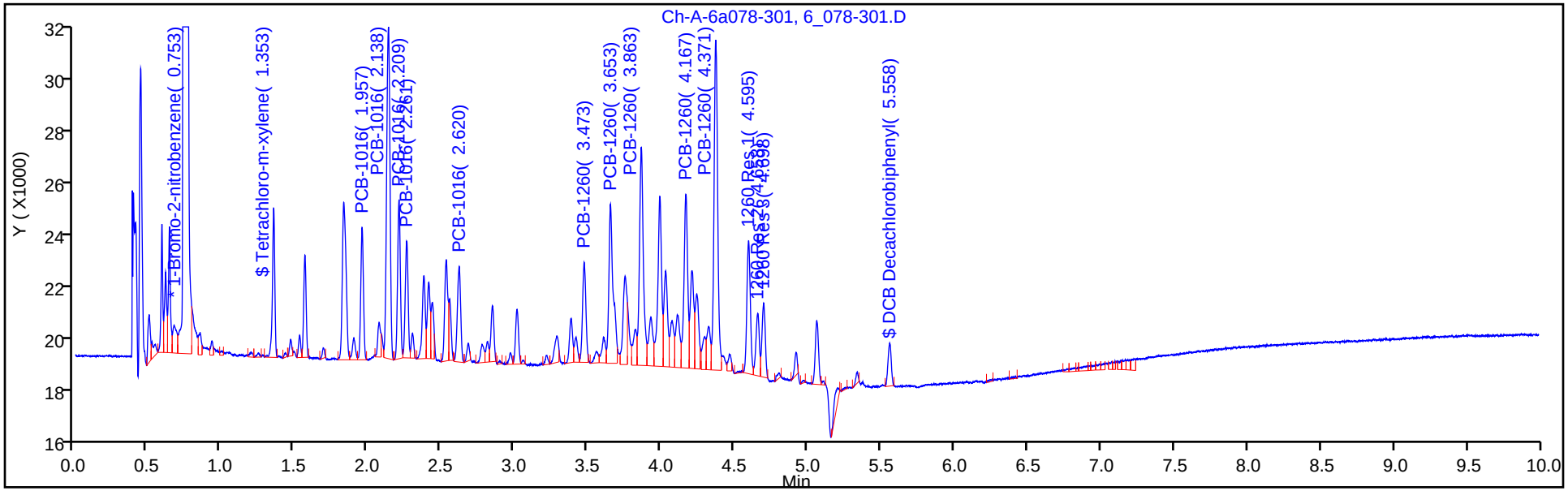
Report Date: 17-Dec-2020 13:46:21 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

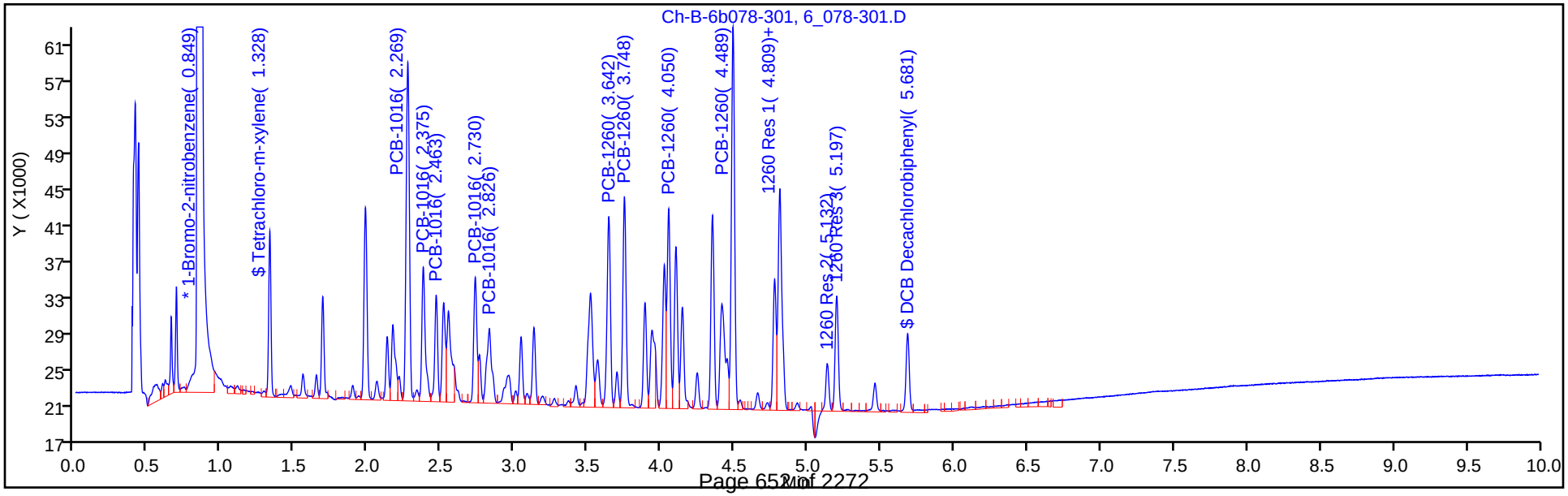
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-301.D

Injection Date:	16-Dec-2020 16:47:14	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC level 1			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Report Date: 17-Dec-2020 13:46:22 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-301.D

Injection Date: 16-Dec-2020 16:47:14 Instrument ID: HP6890-6

Lims ID: IC level 1

Client ID:

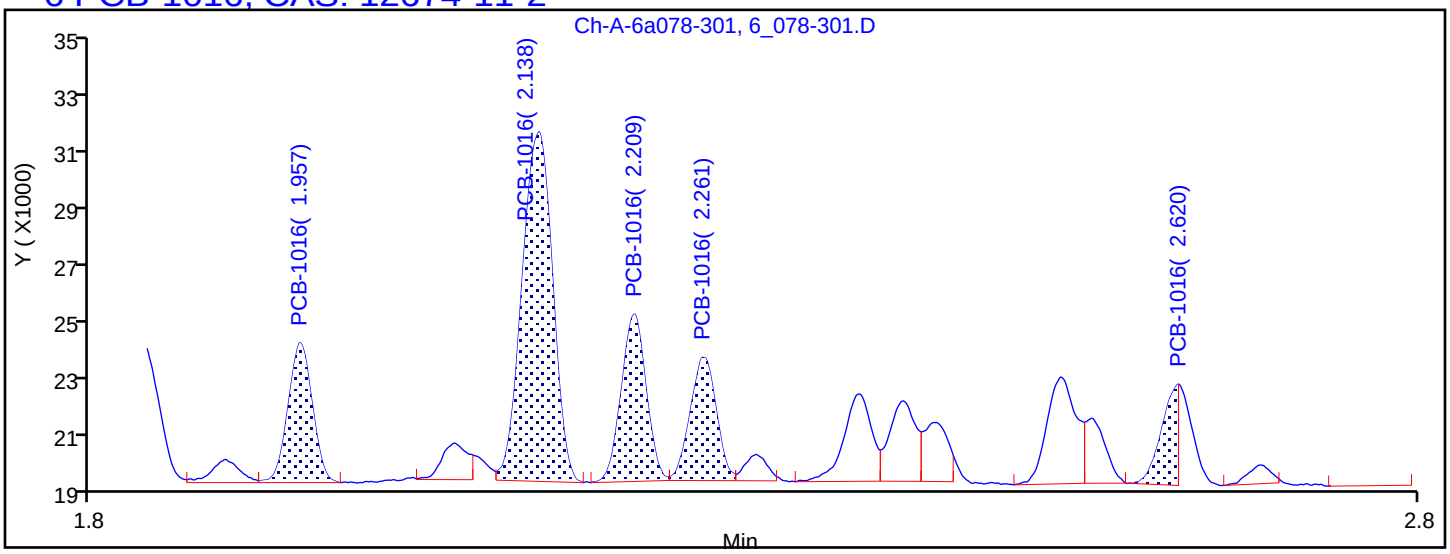
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 9

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

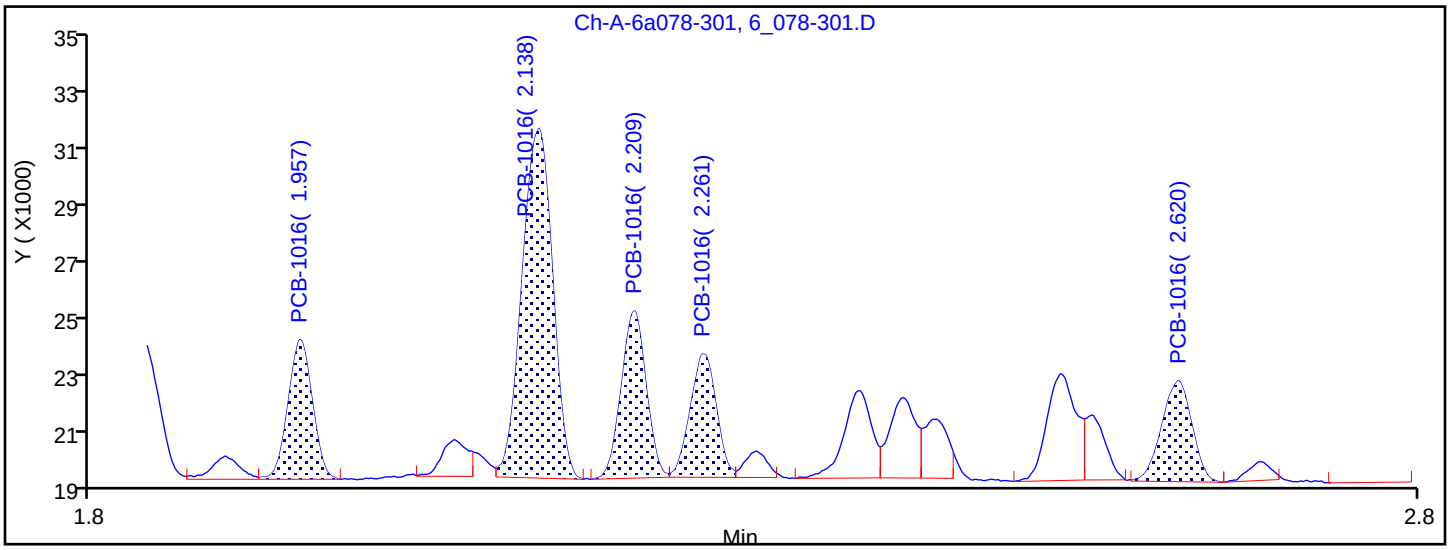
Column: ZB-5 (0.53 mm) Detector Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

1.957	Response = 5915
2.138	Response = 18661
2.209	Response = 7263
2.261	Response = 5638
2.620	Response = 2871



Manual Integration Results

1.957	Response = 5915	
2.138	Response = 18661	
2.209	Response = 7263	
2.261	Response = 5638	
2.620	Response = 5293	M

Reviewer: clarkda, 16-Dec-2020 17:05:26

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Report Date: 17-Dec-2020 13:46:22 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-301.D

Injection Date: 16-Dec-2020 16:47:14 Instrument ID: HP6890-6

Lims ID: IC level 1

Client ID:

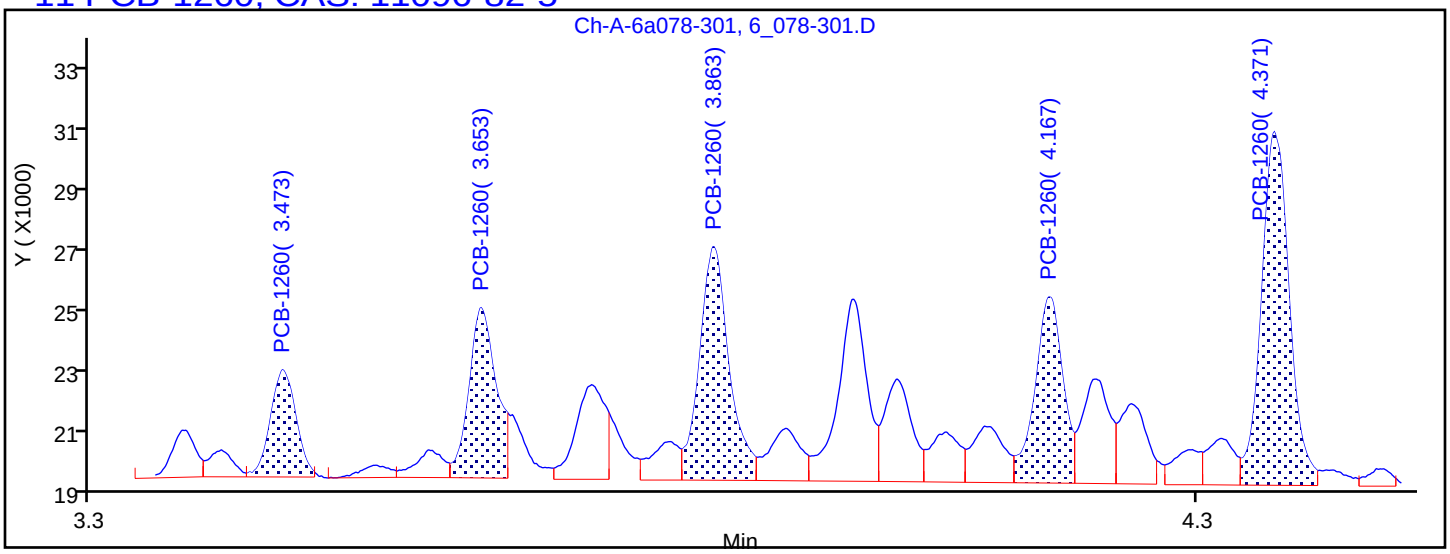
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 9

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

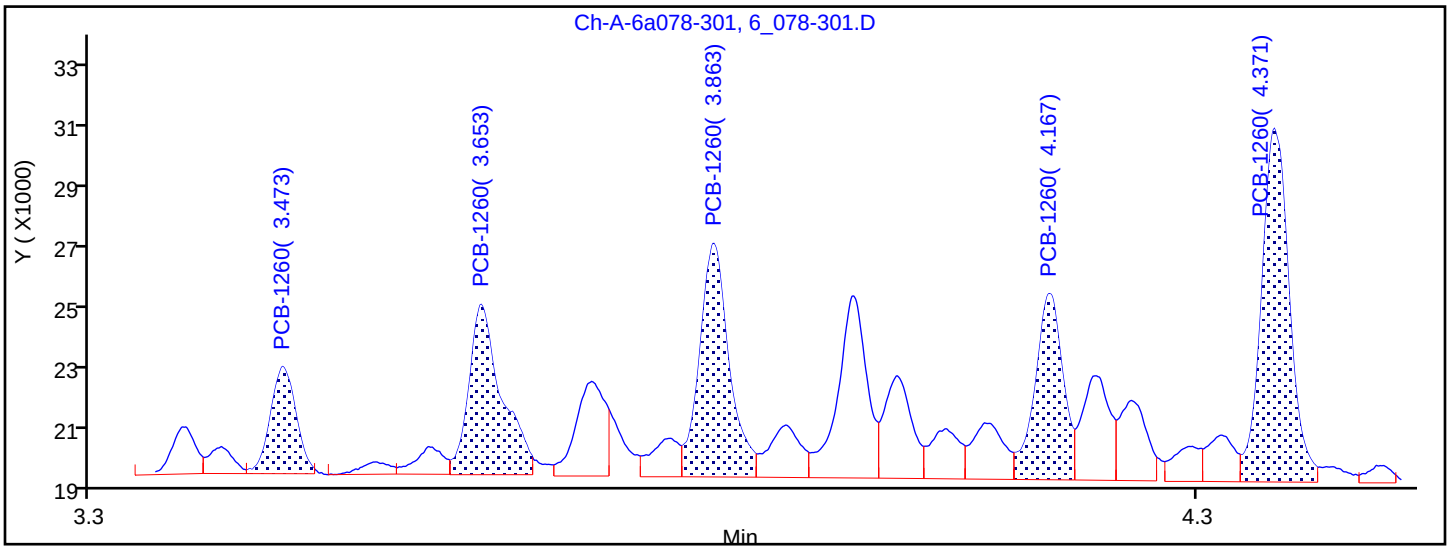
Column: ZB-5 (0.53 mm) Detector Ch-A-7A136

11 PCB-1260, CAS: 11096-82-5



Processing Integration Results

3.473	Response = 5642
3.653	Response = 9490
3.863	Response = 14250
4.167	Response = 10752
4.371	Response = 20318



Manual Integration Results

3.473	Response = 5642	
3.653	Response = 11473	M
3.863	Response = 14250	
4.167	Response = 10752	
4.371	Response = 20318	

Reviewer: clarkda, 16-Dec-2020 17:08:19

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Buffalo

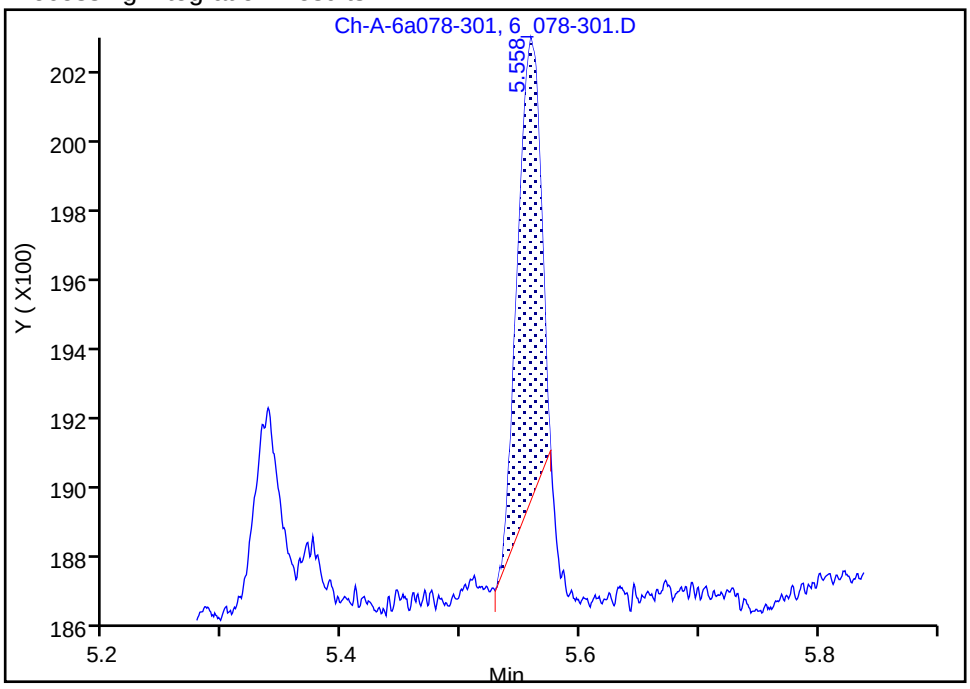
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-301.D
Injection Date: 16-Dec-2020 16:47:14 Instrument ID: HP6890-6
Lims ID: IC level 1
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: ZB-5 (0.53 mm) Detector Ch-A-7A136

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

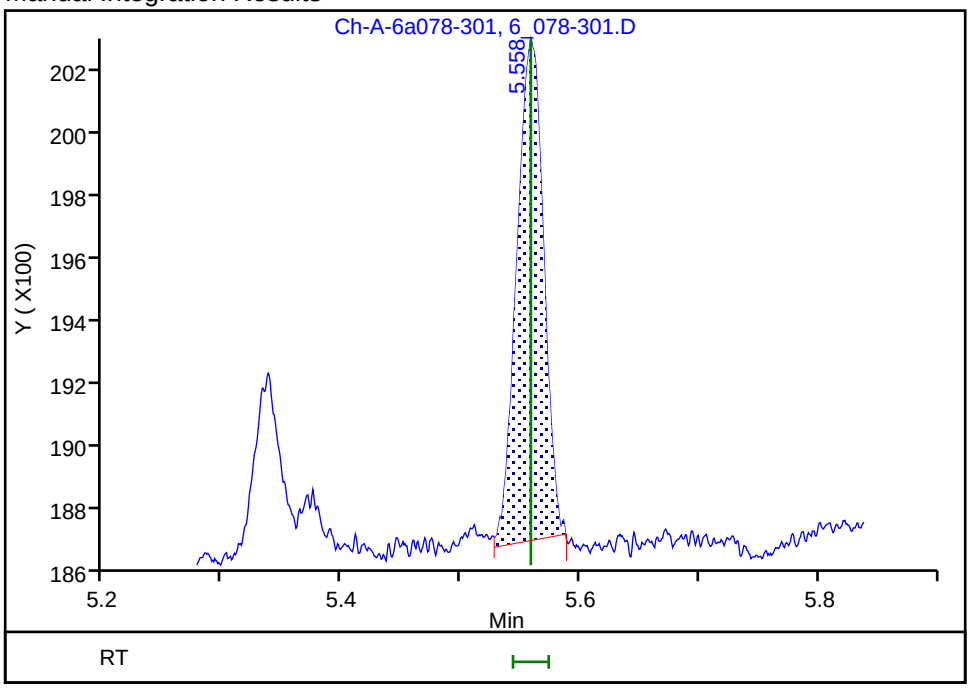
Processing Integration Results

RT: 5.56
Area: 1696
Amount: 0.000431
Amount Units: ng/uL



Manual Integration Results

RT: 5.56
Area: 2355
Amount: 0.000571
Amount Units: ng/uL



Reviewer: clarkda, 16-Dec-2020 17:08:10
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 563531

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/16/2020 15:33 Calibration End Date: 12/16/2020 16:47 Calibration ID: 40828

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-563531/9	6_078-301.D
Level 2	IC 480-563531/8	6_078-300.D
Level 3	IC 480-563531/7	6_078-299.D
Level 4	IC 480-563531/6	6_078-298.D
Level 5	ICIS 480-563531/5	6_078-297.D
Level 6	IC 480-563531/4	6_078-296.D
Level 7	IC 480-563531/3	6_078-295.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.1260 0.1012	0.1161 0.0915	0.1159	0.1129	0.1041	Lin2	0.0005	0.1031				7.2			0.9940		0.9900
PCB-1016 Peak 2	0.0529 0.0395	0.0474 0.0357	0.0465	0.0440	0.0404	Lin2	0.0003	0.0402				7.5			0.9940		0.9900
PCB-1016 Peak 3	0.0350 0.0266	0.0314 0.0249	0.0313	0.0297	0.0275	Lin2	0.0002	0.0273				6.5			0.9950		0.9900
PCB-1016 Peak 4	0.0450 0.0439	0.0520 0.0403	0.0515	0.0490	0.0444	Ave		0.0466				9.3		20.0			
PCB-1016 Peak 5	0.0422 0.0317	0.0380 0.0295	0.0374	0.0352	0.0323	Lin2	0.0002	0.0324				6.7			0.9950		0.9900
PCB-1260 Peak 1	0.0733 0.0559	0.0662 0.0525	0.0640	0.0621	0.0573	Lin1	0.0006	0.0540				10.8			0.9980		0.9900
PCB-1260 Peak 2	0.0772 0.0509	0.0690 0.0559	0.0667	0.0663	0.0604	Lin2	0.0004	0.0585				8.7			0.9910		0.9900
PCB-1260 Peak 3	0.0719 0.0543	0.0648 0.0530	0.0634	0.0612	0.0570	Lin1	0.0006	0.0538				9.7			0.9990		0.9900
PCB-1260 Peak 4	0.1372 0.1137	0.1256 0.1060	0.1261	0.1233	0.1152	Lin1	0.0009	0.1093				9.4			0.9980		0.9900
PCB-1260 Peak 5	0.0968 0.0755	0.0869 0.0709	0.0849	0.0825	0.0758	Lin2	0.0004	0.0763				5.1			0.9970		0.9900
Tetrachloro-m-xylene	1.7202 1.3624	1.5221 1.2616	1.5060	1.4796	1.3755	Lin2	0.0002	1.3662				4.9			0.9970		0.9900
DCB Decachlorobiphenyl	1.1860 0.8278	1.0403 0.7640	0.9795	0.9343	0.8372	Lin2	0.0002	0.8432				7.1			0.9940		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 563531

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/16/2020 15:33 Calibration End Date: 12/16/2020 16:47 Calibration ID: 40828

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-563531/9	6_078-301.D
Level 2	IC 480-563531/8	6_078-300.D
Level 3	IC 480-563531/7	6_078-299.D
Level 4	IC 480-563531/6	6_078-298.D
Level 5	ICIS 480-563531/5	6_078-297.D
Level 6	IC 480-563531/4	6_078-296.D
Level 7	IC 480-563531/3	6_078-295.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Lin2	58431 2222423	138937 4352967	269670	514105	1226320	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 2	BNB	Lin2	24554 867262	56739 1698135	108272	200495	475894	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 3	BNB	Lin2	16245 584321	37533 1182899	72735	135126	324479	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 4	BNB	Ave	20884 963203	62223 1919029	119943	223160	523453	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 5	BNB	Lin2	19583 696644	45506 1402594	86945	160210	380186	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 1	BNB	Lin1	33999 1228039	79235 2499339	148980	282933	675169	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 2	BNB	Lin2	35782 1118459	82536 2660195	155234	301901	711724	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 3	BNB	Lin1	33353 1191814	77516 2520314	147497	278714	671300	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 4	BNB	Lin1	63622 2496539	150289 5042584	293345	561372	1357333	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 5	BNB	Lin2	44879 1657443	103964 3372419	197594	375765	892689	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
Tetrachloro-m-xylene	BNB	Lin2	19945 747811	45524 1500617	87609	168446	405053	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125
DCB Decachlorobiphenyl	BNB	Lin2	13752 454354	31115 908678	56977	106368	246542	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-295.D
Lims ID: IC level 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 16-Dec-2020 15:33:01 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 17-Dec-2020 13:46:07 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1645

First Level Reviewer: clarkda Date: 16-Dec-2020 16:29:55

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.753	0.753	0.000	4393394	0.5000	0.5000	
2	0.848	0.848	0.000	11894453	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	1.354	1.354	0.000	487264	0.0500	0.0465	
2	1.327	1.327	0.000	1500617	0.0500	0.0460	
						RPD = 1.03	
6 PCB-1016							
1	1.958	1.958	0.000	430660	2.00	1.64	
1	2.138	2.138	0.000	1563214	2.00	1.95	
1	2.209	2.209	0.000	576294	2.00	1.93	
1	2.263	2.263	0.000	404134	2.00	1.94	
1	2.620	2.620	0.000	428644	2.00	1.93	
		Average of Peak Amounts =				1.88	
2	2.268	2.268	0.000	4352967	2.00	1.77	
2	2.374	2.374	0.000	1698135	2.00	1.77	
2	2.463	2.463	0.000	1182899	2.00	1.81	
2	2.729	2.729	0.000	1919029	2.00	1.73	
2	2.825	2.825	0.000	1402594	2.00	1.81	
		Average of Peak Amounts =				1.78	
						RPD = 5.57	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							
1	3.473	3.473	0.000	501446	2.00	1.96	
1	3.653	3.653	0.000	934327	2.00	1.96	
1	3.863	3.863	0.000	1087717	2.00	1.97	
1	4.167	4.167	0.000	661728	2.00	1.96	
1	4.373	4.373	0.000	1578017	2.00	1.98	
		Average of Peak Amounts =				1.97	
2	3.642	3.642	0.000	2499339	2.00	1.93	
2	3.748	3.748	0.000	2660195	2.00	1.90	
2	4.050	4.050	0.000	2520314	2.00	1.96	
2	4.488	4.488	0.000	5042584	2.00	1.93	
2	4.808	4.808	0.000	3372419	2.00	1.85	
		Average of Peak Amounts =				1.92	
						RPD = 2.68	
9 1260 Res 1							
1	4.595	4.595	0.000	626786	NR	NR	
2	4.808	4.808	0.000	3372419	NR	NR	
						RPD = NaN	
14 1260 Res 2							
1	4.657	4.657	0.000	271560	NR	NR	
2	5.133	5.133	0.000	597615	NR	NR	
						RPD = NaN	
12 1260 Res 3							
1	4.698	4.698	0.000	322704	NR	NR	
2	5.196	5.196	0.000	1433007	NR	NR	
						RPD = NaN	
$ 15 DCB Decachlorobiphenyl							
1	5.558	5.558	0.000	164282	0.0500	0.0388	
2	5.680	5.680	0.000	908678	0.0500	0.0451	
						RPD = 15.07	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

1660sur/is2.0_00021 Amount Added: 1.00 Units: mL

Report Date: 17-Dec-2020 13:46:07 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-295.D

Injection Date: 16-Dec-2020 15:33:01 Instrument ID: HP6890-6 Operator ID: BufTCHROM

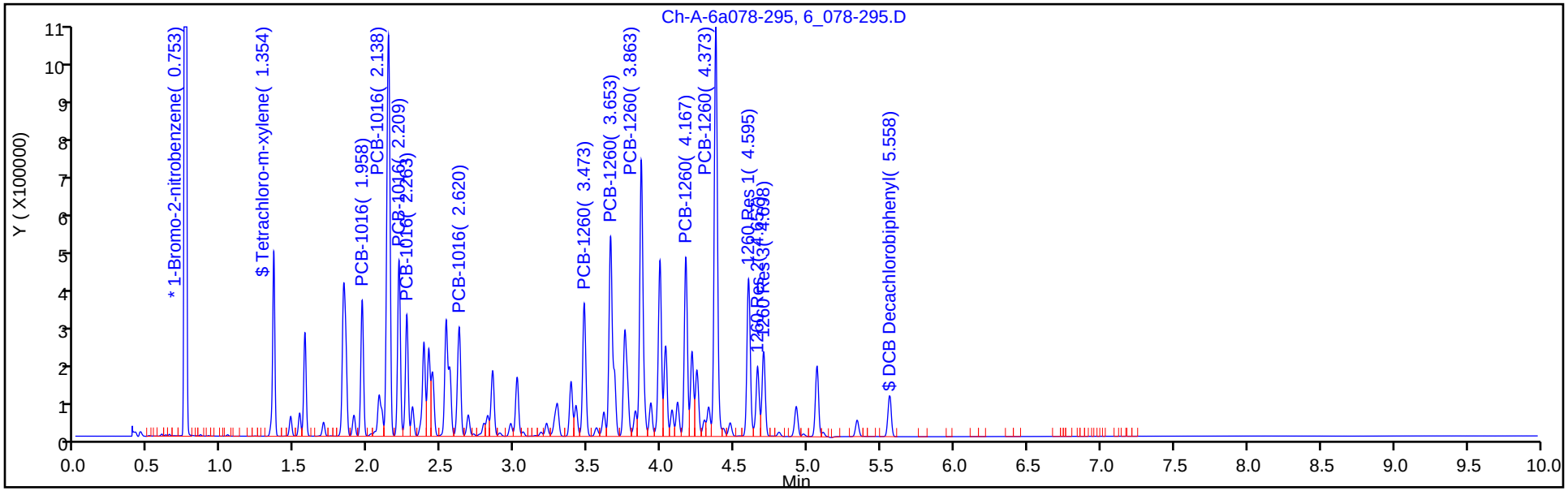
Lims ID: IC level 7 Worklist Smp#: 3

Client ID:

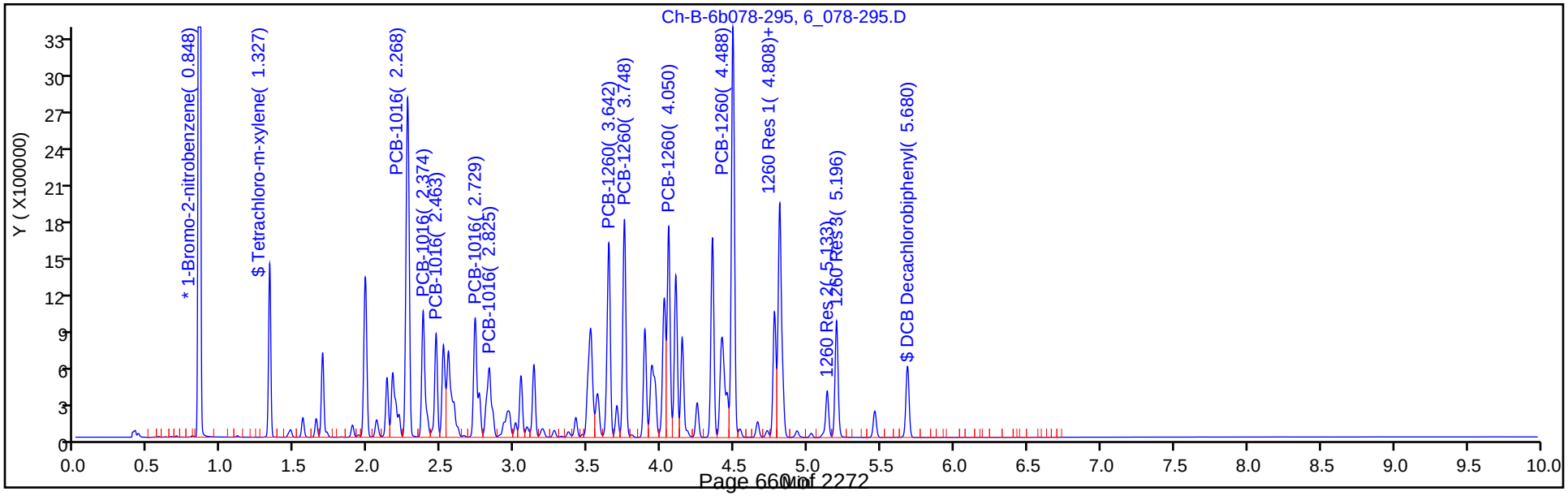
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-296.D
Lims ID: IC level 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 16-Dec-2020 15:45:24 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 17-Dec-2020 13:46:09 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1645

First Level Reviewer: clarkda Date: 16-Dec-2020 17:06:03

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.753	0.753	0.000	4043321	0.5000	0.5000	
2	0.850	0.848	0.002	10977480	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	1.355	1.354	0.001	238107	0.0250	0.0247	
2	1.328	1.327	0.001	747811	0.0250	0.0248	M
						RPD = 0.57	
6 PCB-1016							M
1	1.958	1.958	0.000	217651	1.00	0.9024	
1	2.137	2.138	-0.001	762418	1.00	1.03	
1	2.209	2.209	0.000	285159	1.00	1.03	
1	2.263	2.263	0.000	198266	1.00	1.03	
1	2.620	2.620	0.000	210821	1.00	1.03	
		Average of Peak Amounts =				1.01	
2	2.269	2.268	0.001	2222423	1.00	0.9768	M
2	2.375	2.374	0.001	867262	1.00	0.9758	M
2	2.463	2.463	0.001	584321	1.00	0.9676	M
2	2.730	2.729	0.001	963203	1.00	0.9413	M
2	2.826	2.825	0.001	696644	1.00	0.9721	M
		Average of Peak Amounts =				0.9667	
						RPD = 3.94	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	3.472	3.473	-0.001	241755	1.00	1.02	
1	3.653	3.653	-0.001	452567	1.00	1.03	
1	3.862	3.863	0.000	522598	1.00	1.03	
1	4.167	4.167	0.000	321668	1.00	1.03	
1	4.372	4.373	0.000	753662	1.00	1.02	
		Average of Peak Amounts =				1.03	
2	3.643	3.642	0.000	1228039	1.00	1.02	M
2	3.748	3.748	0.000	1118459	1.00	0.8632	M
2	4.050	4.050	0.000	1191814	1.00	1.00	M
2	4.489	4.488	0.001	2496539	1.00	1.03	M
2	4.808	4.808	0.000	1657443	1.00	0.9842	M
		Average of Peak Amounts =				0.9805	
						RPD = 4.66	
9 1260 Res 1							M
1	4.594	4.595	-0.001	298087	NR	NR	
2	4.808	4.808	0.000	1657443	NR	NR	M
						RPD = NaN	
14 1260 Res 2							M
1	4.657	4.657	0.000	130032	NR	NR	
2	5.133	5.133	0.000	298759	NR	NR	M
						RPD = NaN	
12 1260 Res 3							M
1	4.698	4.698	0.000	155705	NR	NR	
2	5.196	5.196	0.000	710007	NR	NR	M
						RPD = NaN	
$ 15 DCB Decachlorobiphenyl							M
1	5.558	5.558	0.000	87962	0.0250	0.0226	
2	5.681	5.680	0.001	454354	0.0250	0.0243	M
						RPD = 7.55	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

1660sur/is1.0_00020 Amount Added: 1.00 Units: mL

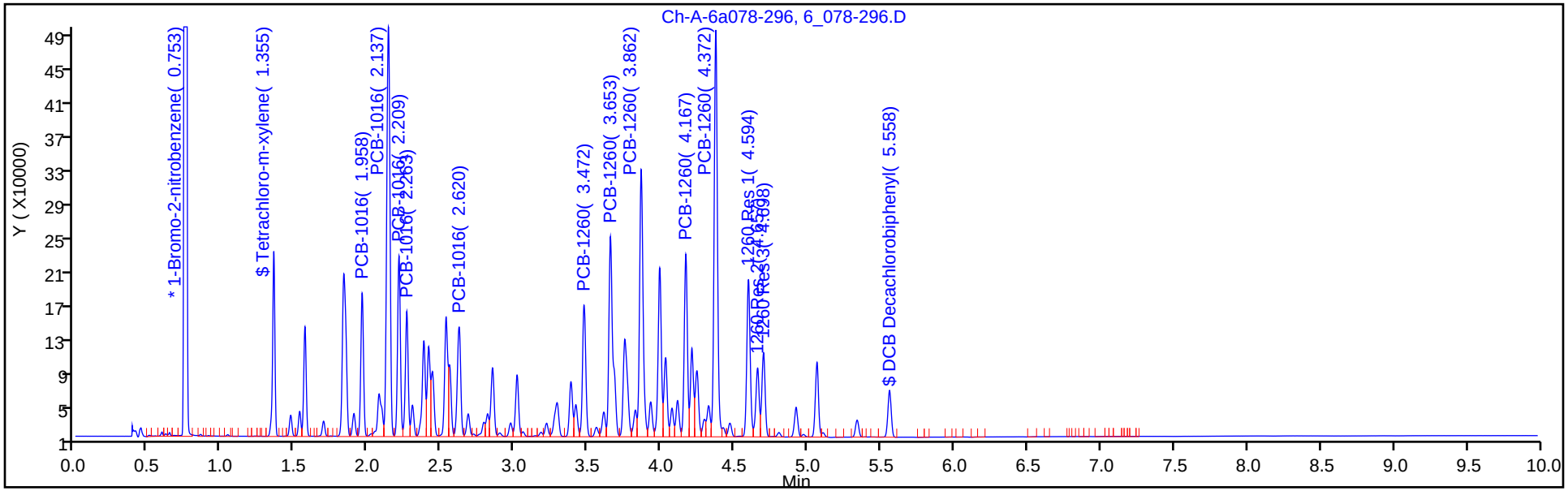
Report Date: 17-Dec-2020 13:46:09 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

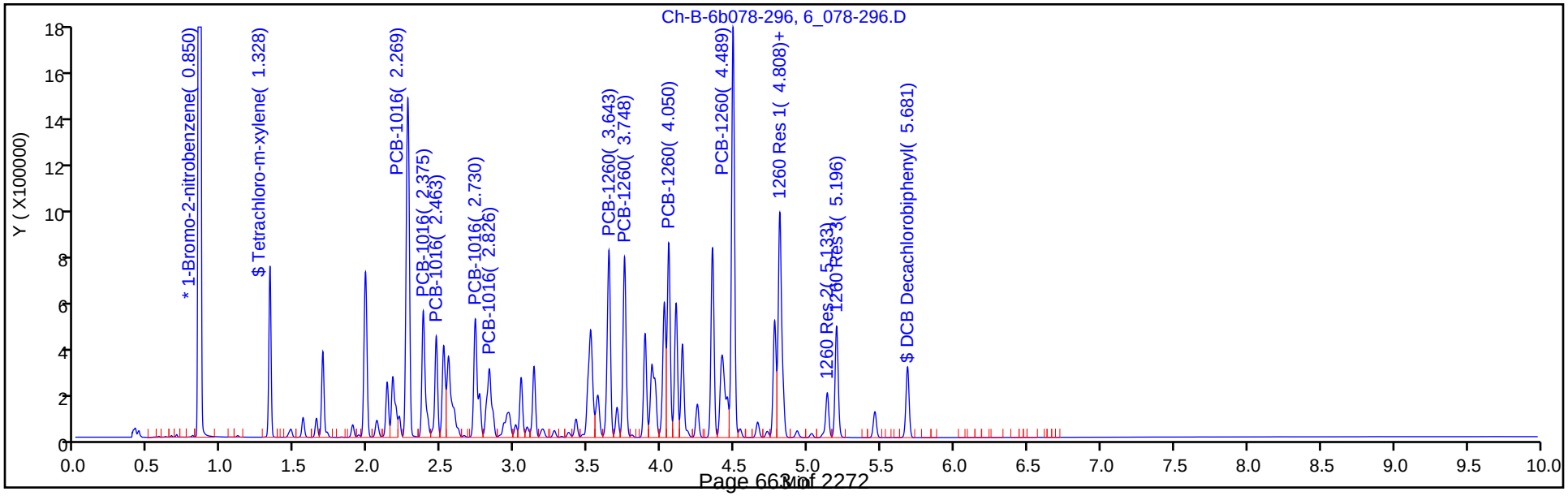
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-296.D

Injection Date:	16-Dec-2020 15:45:24	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC level 6			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Eurofins TestAmerica, Buffalo

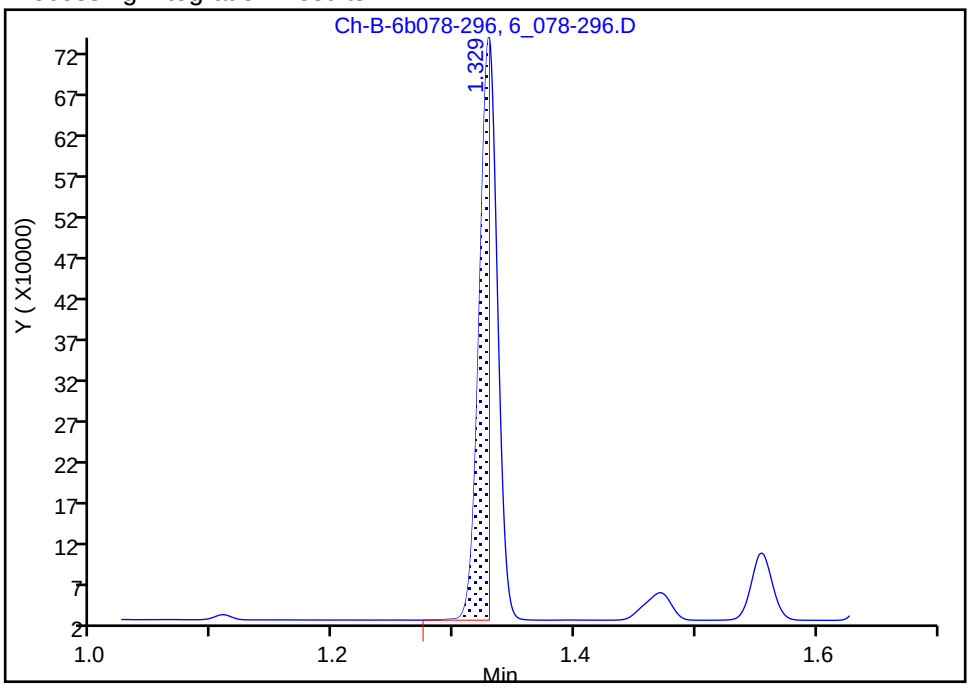
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-296.D
Injection Date: 16-Dec-2020 15:45:24 Instrument ID: HP6890-6
Lims ID: IC level 6
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: ZB-35 (0.53 mm) Detector Ch-B-7b136

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

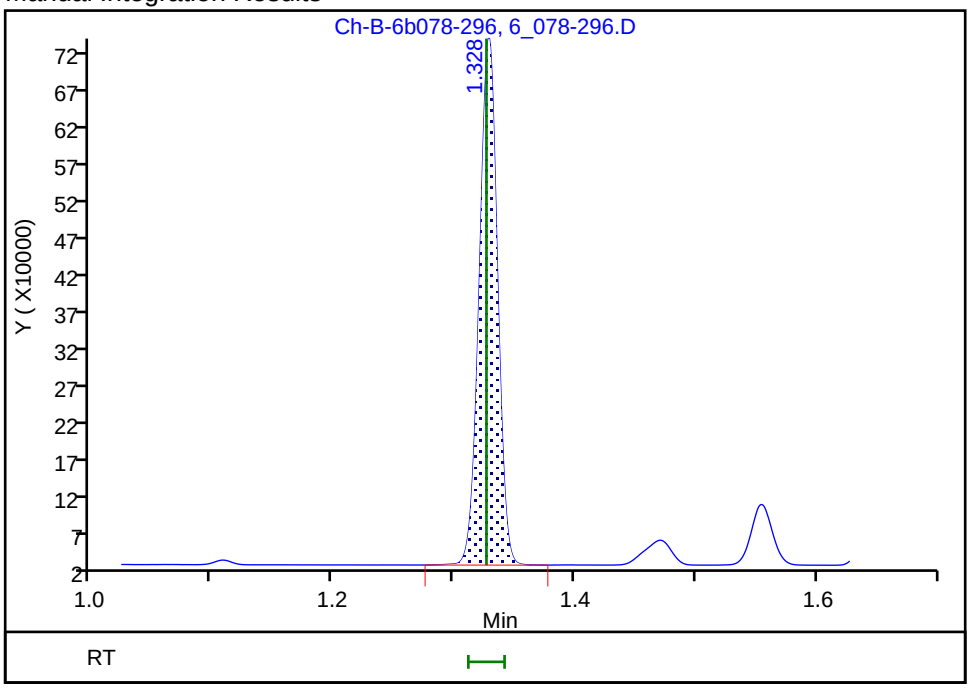
Processing Integration Results

RT: 1.33
Area: 407235
Amount: 0.013600
Amount Units: ng/uL



Manual Integration Results

RT: 1.33
Area: 747811
Amount: 0.024795
Amount Units: ng/uL



Reviewer: clarkda, 16-Dec-2020 17:06:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Report Date: 17-Dec-2020 13:46:10 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-296.D

Injection Date: 16-Dec-2020 15:45:24 Instrument ID: HP6890-6

Lims ID: IC level 6

Client ID:

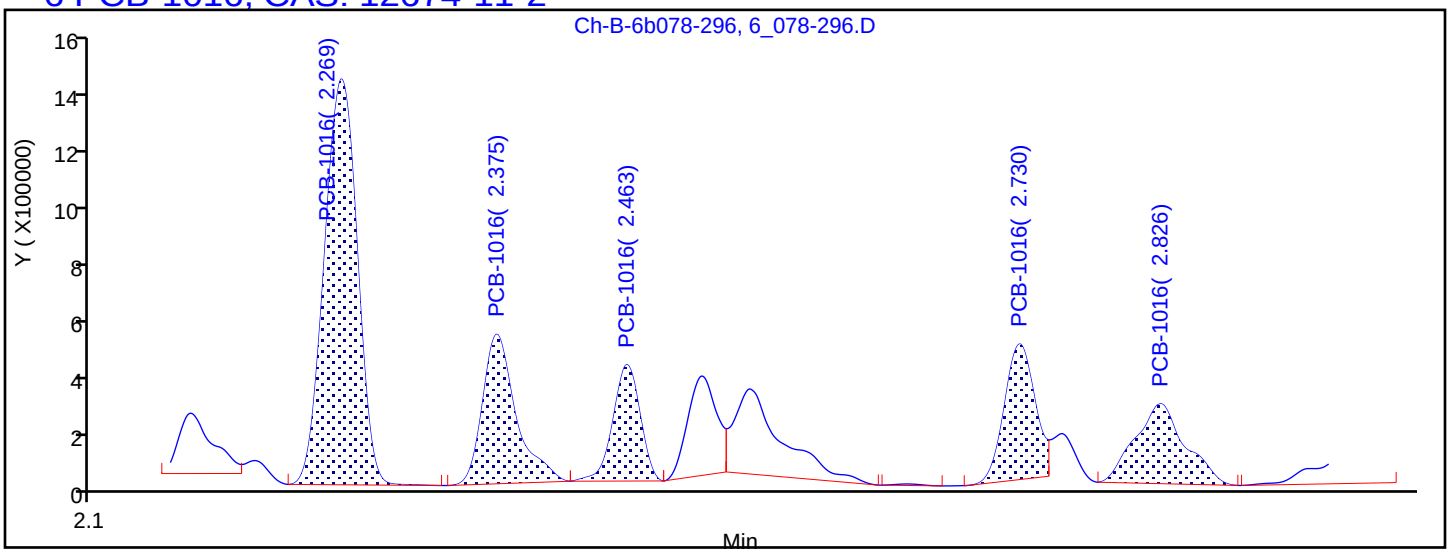
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

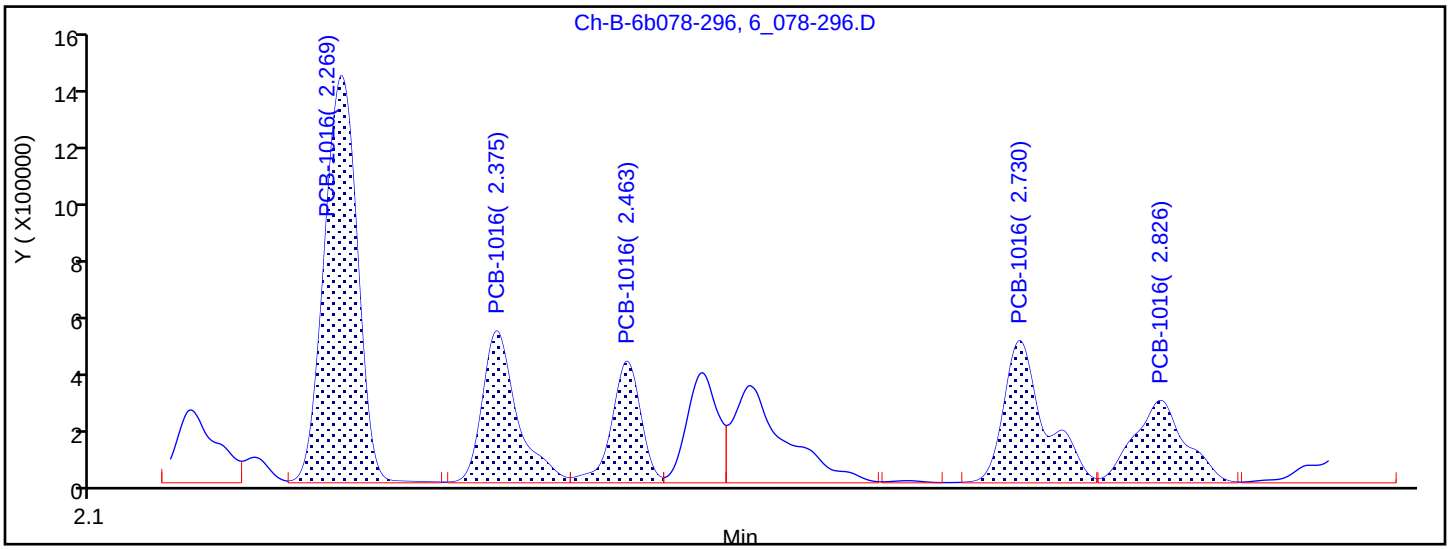
Column: ZB-35 (0.53 mm) Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.269	Response = 2197657
2.375	Response = 819542
2.463	Response = 517555
2.730	Response = 683704
2.826	Response = 650876



Manual Integration Results

2.269	Response = 2222423	M
2.375	Response = 867262	M
2.463	Response = 584321	M
2.730	Response = 963203	M
2.826	Response = 696644	M

Reviewer: clarkda, 16-Dec-2020 17:05:57

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 17-Dec-2020 13:46:10 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-296.D

Injection Date: 16-Dec-2020 15:45:24 Instrument ID: HP6890-6

Lims ID: IC level 6

Client ID:

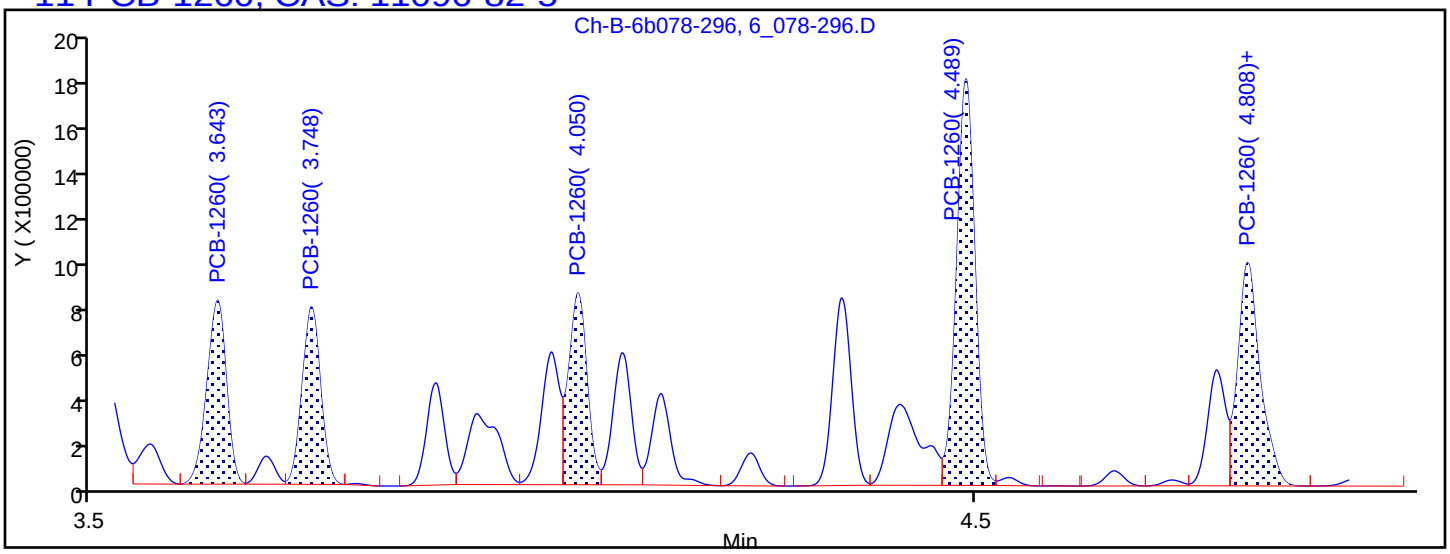
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

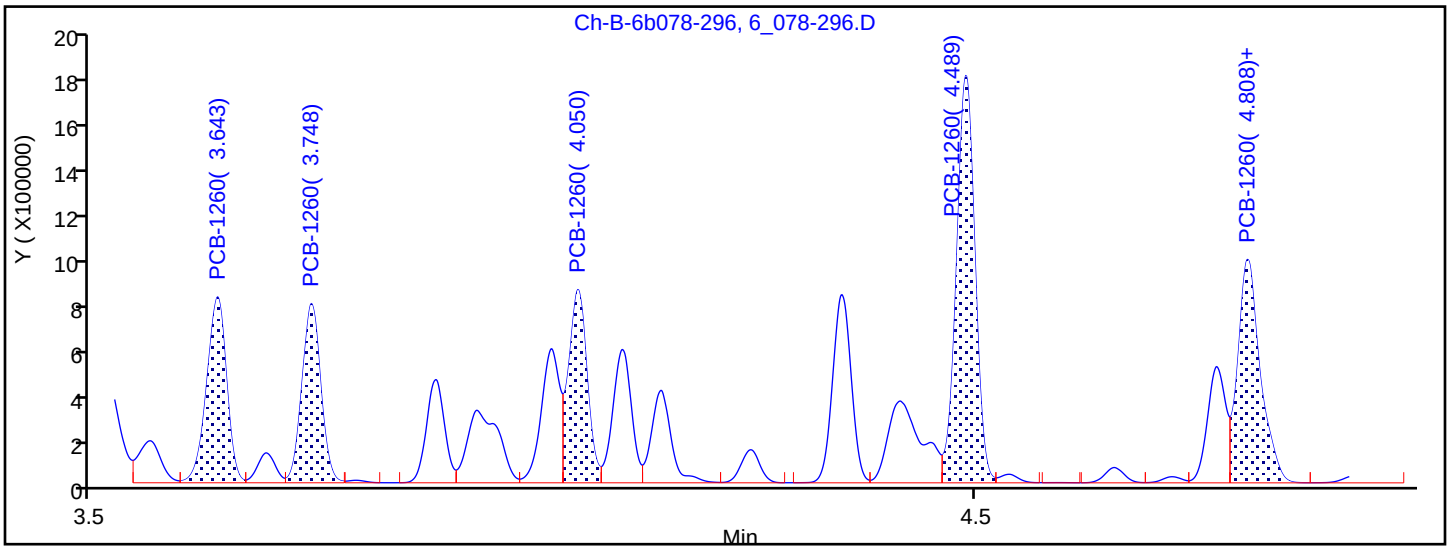
Column: ZB-35 (0.53 mm) Detector Ch-B-7b136

11 PCB-1260, CAS: 11096-82-5



Processing Integration Results

3.643	Response = 1191769
3.748	Response = 1089381
4.050	Response = 1176854
4.489	Response = 2485472
4.808	Response = 1652881



Manual Integration Results

3.643	Response = 1228039	M
3.748	Response = 1118459	M
4.050	Response = 1191814	M
4.489	Response = 2496539	M
4.808	Response = 1657443	M

Reviewer: clarkda, 16-Dec-2020 17:05:57

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

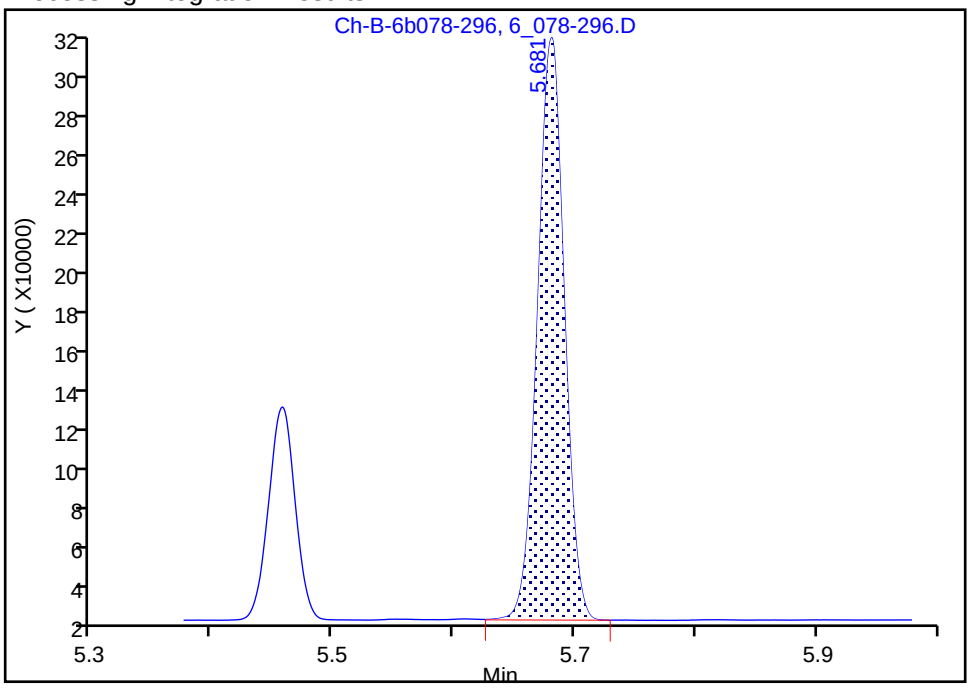
Data File:	\\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-296.D				
Injection Date:	16-Dec-2020 15:45:24	Instrument ID:	HP6890-6		
Lims ID:	IC level 6				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:	ZB-35 (0.53 mm)	Detector	Ch-B-7b136		

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

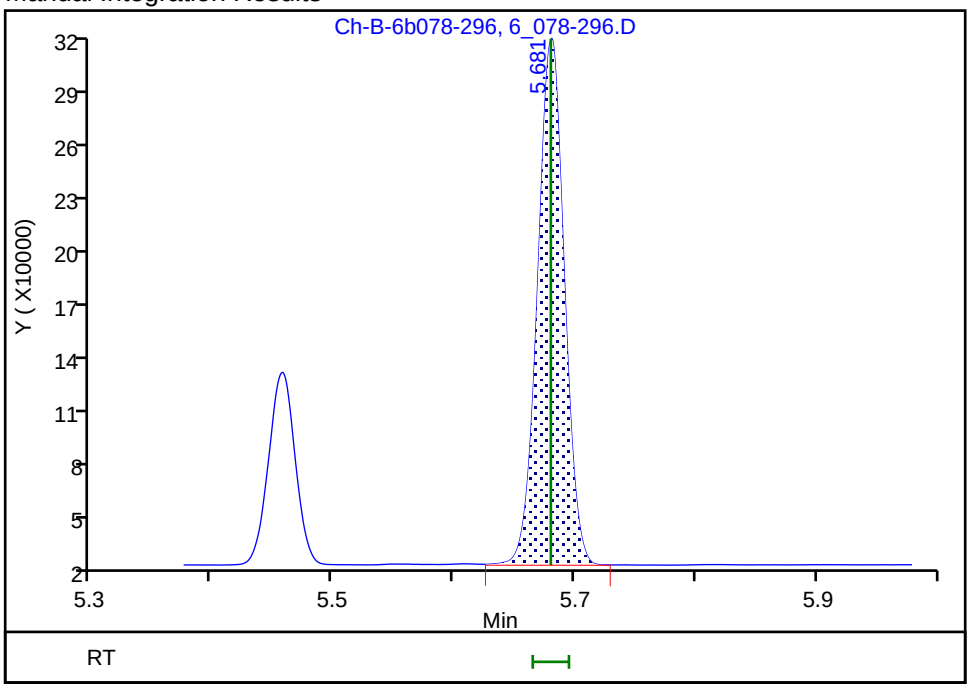
Processing Integration Results

RT: 5.68
Area: 452986
Amount: 0.025824
Amount Units: ng/uL



Manual Integration Results

RT: 5.68
Area: 454354
Amount: 0.024321
Amount Units: ng/uL



Reviewer: clarkda, 16-Dec-2020 17:05:57

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-297.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 16-Dec-2020 15:57:46 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 17-Dec-2020 13:46:11 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1645

First Level Reviewer: clarkda Date: 16-Dec-2020 17:04:53

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.754	0.754	0.000	4342954	0.5000	0.5000	
2	0.850	0.850	0.000	11779301	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	1.356	1.356	0.000	126369	0.0125	0.0121	
2	1.329	1.329	0.000	405053	0.0125	0.0124	
						RPD = 2.56	
6 PCB-1016							
1	1.958	1.958	0.000	118515	0.5000	0.4575	
1	2.138	2.138	0.000	401939	0.5000	0.5034	
1	2.210	2.210	0.000	152829	0.5000	0.5111	
1	2.263	2.263	0.000	106000	0.5000	0.5067	
1	2.621	2.621	0.000	113451	0.5000	0.5113	
		Average of Peak Amounts =				0.4980	
2	2.271	2.271	0.000	1226320	0.5000	0.4998	
2	2.376	2.376	0.000	475894	0.5000	0.4955	
2	2.464	2.464	0.000	324479	0.5000	0.4977	
2	2.730	2.730	0.000	523453	0.5000	0.4768	
2	2.827	2.827	0.000	380186	0.5000	0.4911	
		Average of Peak Amounts =				0.4922	
						RPD = 1.17	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							
1	3.474	3.474	0.000	126876	0.5000	0.4981	
1	3.654	3.654	0.000	234574	0.5000	0.4949	
1	3.864	3.864	0.000	270526	0.5000	0.4912	
1	4.168	4.168	0.000	167339	0.5000	0.4909	
1	4.373	4.373	0.000	391352	0.5000	0.4913	
		Average of Peak Amounts =				0.4933	
2	3.643	3.643	0.000	675169	0.5000	0.5194	
2	3.749	3.749	0.000	711724	0.5000	0.5090	
2	4.052	4.052	0.000	671300	0.5000	0.5196	
2	4.490	4.490	0.000	1357333	0.5000	0.5185	
2	4.809	4.809	0.000	892689	0.5000	0.4911	
		Average of Peak Amounts =				0.5115	
						RPD = 3.63	
9 1260 Res 1							
1	4.597	4.597	0.000	157200	NR	NR	
2	4.809	4.809	0.000	892689	NR	NR	
						RPD = NaN	
14 1260 Res 2							
1	4.658	4.658	0.000	71266	NR	NR	
2	5.133	5.133	0.000	166731	NR	NR	
						RPD = NaN	
12 1260 Res 3							
1	4.699	4.699	0.000	82957	NR	NR	
2	5.196	5.196	0.000	383724	NR	NR	
						RPD = NaN	
$ 15 DCB Decachlorobiphenyl							
1	5.559	5.559	0.000	49513	0.0125	0.0118	
2	5.680	5.680	0.000	246542	0.0125	0.0122	
						RPD = 3.08	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

1660sur/is0.5_00124 Amount Added: 1.00 Units: mL

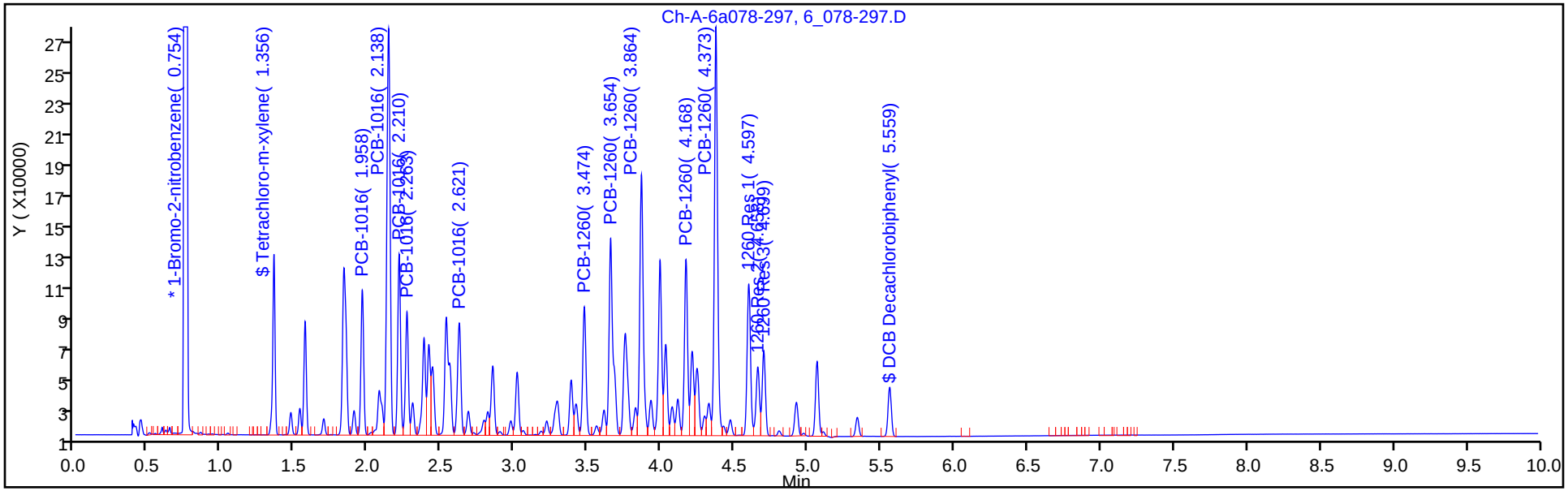
Report Date: 17-Dec-2020 13:46:12 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

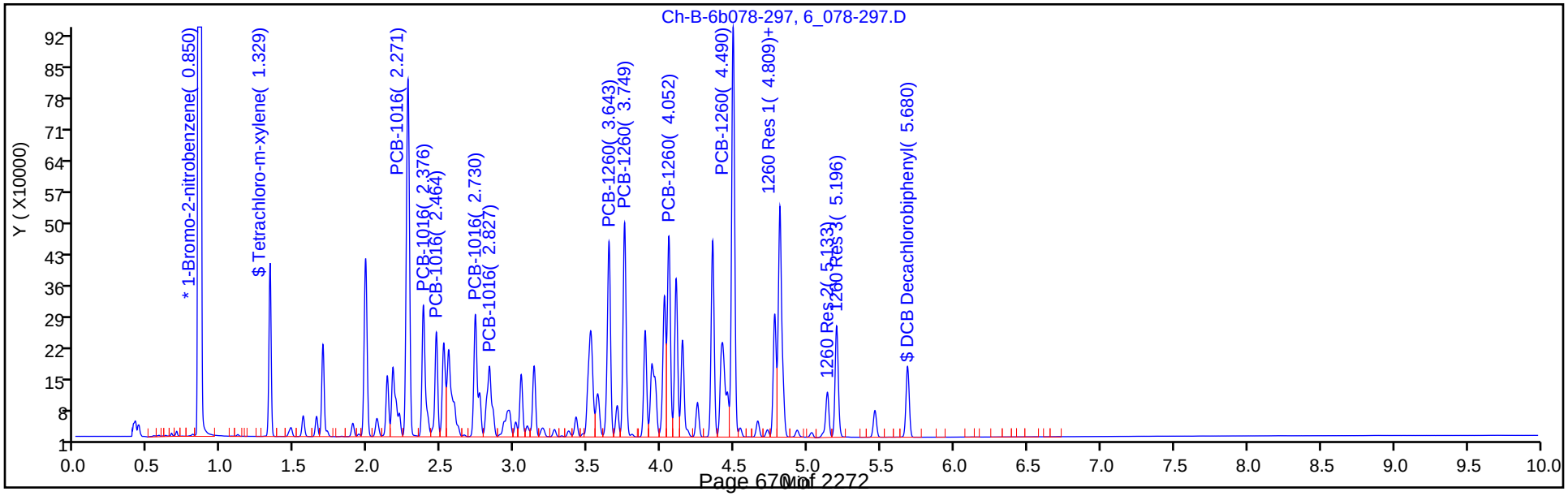
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-297.D

Injection Date:	16-Dec-2020 15:57:46	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	ICIS			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-298.D
Lims ID: IC level 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 16-Dec-2020 16:10:01 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 17-Dec-2020 13:46:14 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1645

First Level Reviewer: clarkda Date: 16-Dec-2020 17:04:11

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.754	0.754	0.000	4196352	0.5000	0.5000	
2	0.851	0.850	0.001	11384265	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	1.356	1.356	0.000	53098	0.005000	0.005223	
2	1.329	1.329	0.000	168446	0.005000	0.005278	
						RPD = 1.05	
6 PCB-1016							
1	1.958	1.958	0.000	50860	0.2000	0.2032	
1	2.138	2.138	0.000	164265	0.2000	0.2094	
1	2.210	2.210	0.000	64232	0.2000	0.2169	
1	2.263	2.263	0.000	44726	0.2000	0.2145	
1	2.620	2.621	-0.001	47558	0.2000	0.2166	
		Average of Peak Amounts =				0.2122	
2	2.270	2.271	-0.001	514105	0.2000	0.2140	
2	2.377	2.376	0.001	200495	0.2000	0.2120	
2	2.464	2.464	0.000	135126	0.2000	0.2109	
2	2.731	2.730	0.001	223160	0.2000	0.2103	
2	2.828	2.827	0.001	160210	0.2000	0.2103	
		Average of Peak Amounts =				0.2115	
						RPD = 0.30	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							
1	3.474	3.474	0.000	52565	0.2000	0.2106	
1	3.653	3.654	-0.001	97032	0.2000	0.2090	
1	3.864	3.864	0.000	111779	0.2000	0.2058	
1	4.168	4.168	0.000	72383	0.2000	0.2112	
1	4.373	4.373	0.000	161409	0.2000	0.2058	
		Average of Peak Amounts =				0.2085	
2	3.643	3.643	0.000	282933	0.2000	0.2189	
2	3.749	3.749	0.000	301901	0.2000	0.2194	
2	4.052	4.052	0.000	278714	0.2000	0.2173	
2	4.490	4.490	0.000	561372	0.2000	0.2171	
2	4.808	4.809	-0.001	375765	0.2000	0.2106	
		Average of Peak Amounts =				0.2167	
						RPD = 3.84	
9 1260 Res 1							
1	4.597	4.597	0.000	66929	NR	NR	
2	4.808	4.809	-0.001	375765	NR	NR	
						RPD = NaN	
14 1260 Res 2							
1	4.658	4.658	0.000	30744	NR	NR	
2	5.133	5.133	0.000	80211	NR	NR	
						RPD = NaN	
12 1260 Res 3							
1	4.699	4.699	0.000	39342	NR	NR	
2	5.197	5.196	0.001	167054	NR	NR	
						RPD = NaN	
$ 15 DCB Decachlorobiphenyl							
1	5.558	5.559	-0.001	21634	0.005000	0.005344	
2	5.682	5.680	0.002	106368	0.005000	0.005317	
						RPD = 0.51	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

1660sur/is0.2_00019 Amount Added: 1.00 Units: mL

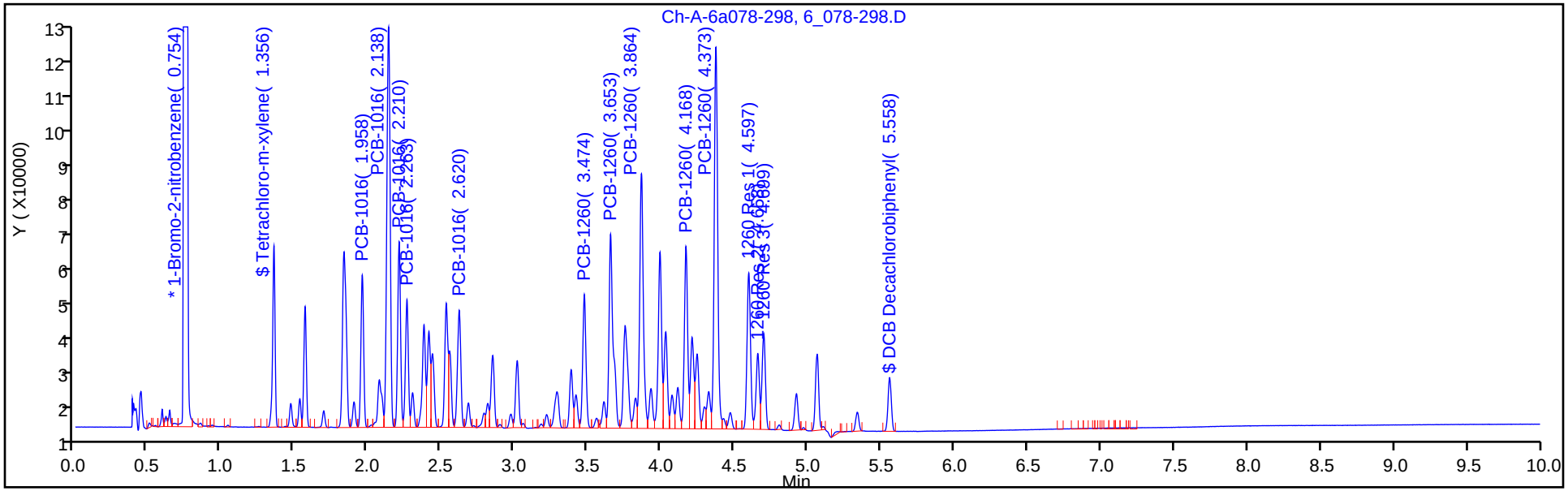
Report Date: 17-Dec-2020 13:46:14 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

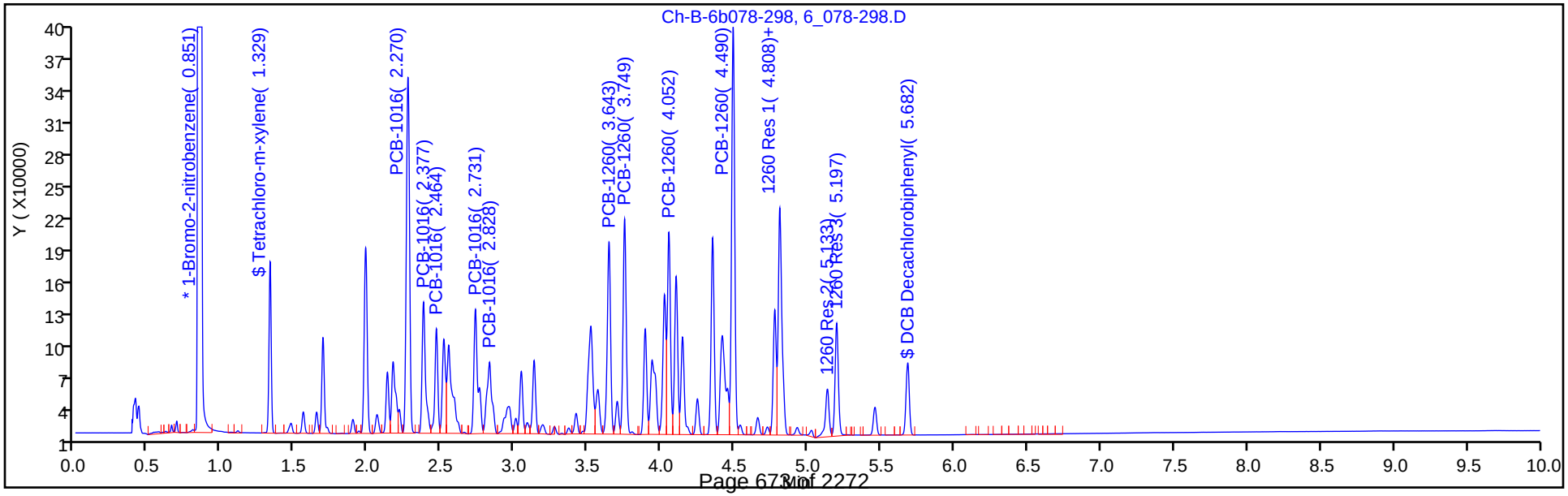
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-298.D

Injection Date:	16-Dec-2020 16:10:01	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC level 4			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-299.D
Lims ID: IC level 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 16-Dec-2020 16:22:23 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 17-Dec-2020 13:46:16 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1645

First Level Reviewer: clarkda Date: 16-Dec-2020 17:11:28

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.753	0.754	-0.001	4288839	0.5000	0.5000	
2	0.850	0.850	0.000	11634393	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	1.355	1.356	-0.001	28190	0.002500	0.002668	
2	1.329	1.329	0.000	87609	0.002500	0.002619	
						RPD = 1.85	
6 PCB-1016							
1	1.958	1.958	0.000	27860	0.1000	0.1089	
1	2.138	2.138	0.000	86568	0.1000	0.1050	
1	2.209	2.210	-0.001	34891	0.1000	0.1108	
1	2.263	2.263	-0.001	24577	0.1000	0.1098	
1	2.619	2.621	-0.002	26291	0.1000	0.1130	
		Average of Peak Amounts =				0.1095	
2	2.270	2.271	-0.001	269670	0.1000	0.1074	
2	2.376	2.376	0.000	108272	0.1000	0.1087	
2	2.464	2.464	0.000	72735	0.1000	0.1082	
2	2.731	2.730	0.001	119943	0.1000	0.1106	
2	2.826	2.827	-0.001	86945	0.1000	0.1085	
		Average of Peak Amounts =				0.1087	
						RPD = 0.79	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							
1	3.473	3.474	-0.001	28462	0.1000	0.1091	
1	3.653	3.654	-0.002	52045	0.1000	0.1073	
1	3.863	3.864	-0.002	59542	0.1000	0.1037	
1	4.168	4.168	0.000	40029	0.1000	0.1073	
1	4.372	4.373	0.000	84745	0.1000	0.1024	
		Average of Peak Amounts =				0.1060	
2	3.642	3.643	0.000	148980	0.1000	0.1074	
2	3.748	3.749	-0.001	155234	0.1000	0.1069	
2	4.051	4.052	-0.001	147497	0.1000	0.1076	
2	4.490	4.490	0.000	293345	0.1000	0.1069	
2	4.808	4.809	-0.001	197594	0.1000	0.1055	
		Average of Peak Amounts =				0.1068	
						RPD = 0.83	
9 1260 Res 1							
1	4.595	4.597	-0.002	35956	NR	NR	
2	4.808	4.809	-0.001	197594	NR	NR	
						RPD = NaN	
14 1260 Res 2							
1	4.658	4.658	0.000	16740	NR	NR	
2	5.132	5.133	-0.001	43533	NR	NR	
						RPD = NaN	
12 1260 Res 3							
1	4.698	4.699	-0.001	19292	NR	NR	
2	5.197	5.196	0.001	88130	NR	NR	
						RPD = NaN	
$ 15 DCB Decachlorobiphenyl							
1	5.558	5.559	-0.001	11454	0.002500	0.002769	
2	5.681	5.680	0.001	56977	0.002500	0.002681	
						RPD = 3.23	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

1660sur/is0.1_00020 Amount Added: 1.00 Units: mL

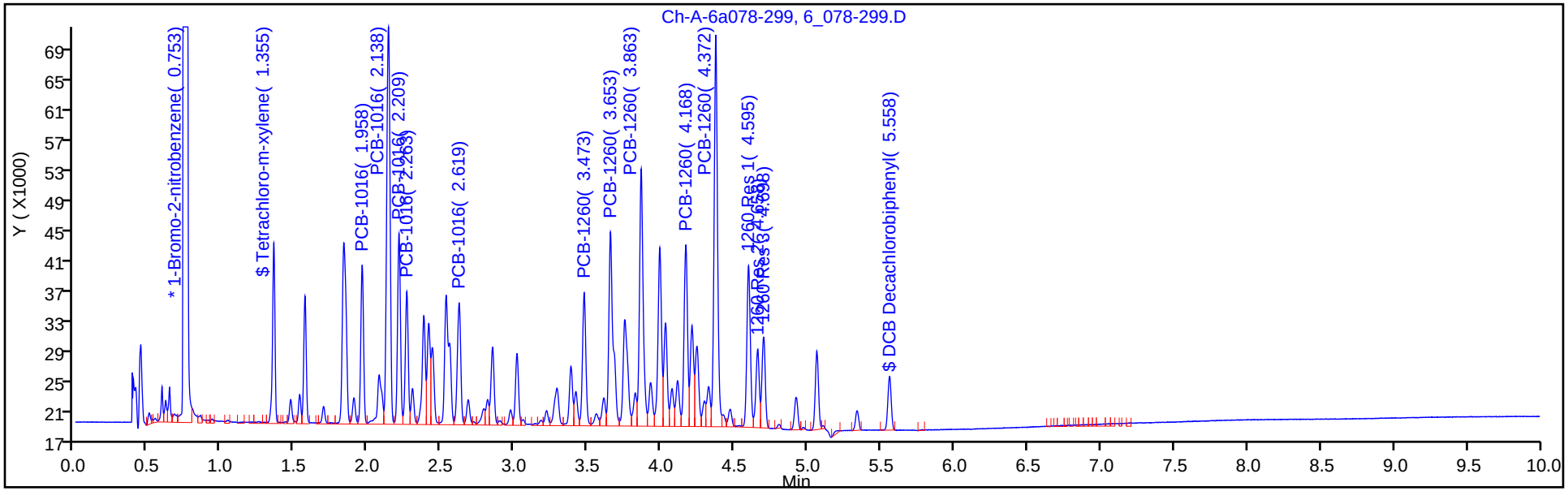
Report Date: 17-Dec-2020 13:46:17 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

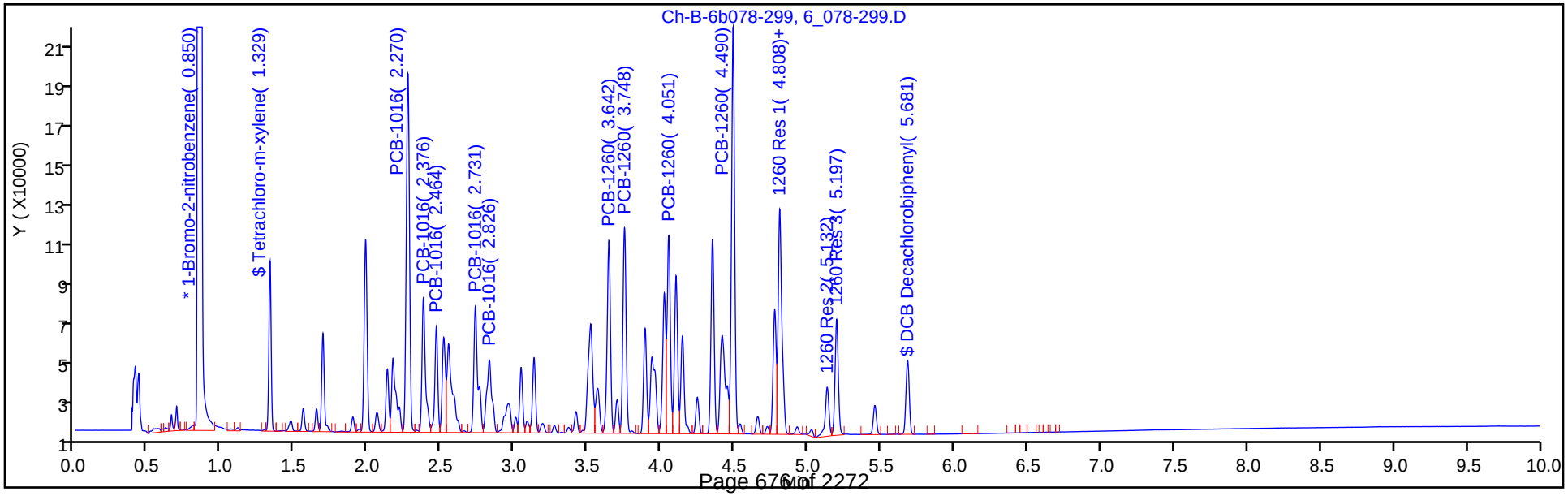
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-299.D

Injection Date:	16-Dec-2020 16:22:23	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC level 3			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-300.D
Lims ID: IC level 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 16-Dec-2020 16:34:56 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 17-Dec-2020 13:46:18 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1645

First Level Reviewer: clarkda Date: 16-Dec-2020 17:06:49

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.755	0.754	0.001	4438718	0.5000	0.5000	
2	0.851	0.850	0.001	11963303	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	1.357	1.356	0.001	14576	0.001250	0.001285	
2	1.329	1.329	0.000	45524	0.001250	0.001255	M
						RPD = 2.37	
6 PCB-1016							M
1	1.960	1.958	0.002	14510	0.0500	0.0548	
1	2.138	2.138	0.000	44779	0.0500	0.0495	
1	2.211	2.210	0.001	17924	0.0500	0.0502	
1	2.263	2.263	0.000	13021	0.0500	0.0504	
1	2.622	2.621	0.001	13061	0.0500	0.0495	
		Average of Peak Amounts =				0.0509	
2	2.270	2.271	-0.001	138937	0.0500	0.0513	M
2	2.376	2.376	0.000	56739	0.0500	0.0519	M
2	2.464	2.464	0.000	37533	0.0500	0.0512	M
2	2.731	2.730	0.001	62223	0.0500	0.0558	M
2	2.826	2.827	-0.001	45506	0.0500	0.0519	M
		Average of Peak Amounts =				0.0524	
						RPD = 2.98	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	3.474	3.474	0.000	13909	0.0500	0.0488	
1	3.654	3.654	0.000	23663	0.0500	0.0443	
1	3.863	3.864	-0.001	31162	0.0500	0.0488	
1	4.168	4.168	0.000	21985	0.0500	0.0497	
1	4.373	4.373	0.000	44937	0.0500	0.0491	
		Average of Peak Amounts =				0.0481	
2	3.643	3.643	0.000	79235	0.0500	0.0501	
2	3.749	3.749	0.000	82536	0.0500	0.0519	
2	4.052	4.052	0.000	77516	0.0500	0.0499	M
2	4.489	4.490	-0.001	150289	0.0500	0.0490	M
2	4.809	4.809	0.000	103964	0.0500	0.0511	M
		Average of Peak Amounts =				0.0504	
						RPD = 4.60	
9 1260 Res 1							M
1	4.596	4.597	-0.001	21215	NR	NR	
2	4.809	4.809	0.000	103964	NR	NR	M
						RPD = NaN	
14 1260 Res 2							M
1	4.658	4.658	0.000	9876	NR	NR	
2	5.133	5.133	-0.001	19187	NR	NR	M
						RPD = NaN	
12 1260 Res 3							M
1	4.698	4.699	-0.001	11233	NR	NR	
2	5.198	5.196	0.002	45637	NR	NR	M
						RPD = NaN	
$ 15 DCB Decachlorobiphenyl							M
1	5.558	5.559	-0.001	5666	0.001250	0.001323	
2	5.682	5.680	0.002	31115	0.001250	0.001319	M
						RPD = 0.33	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.05_00020 Amount Added: 1.00 Units: mL

Report Date: 17-Dec-2020 13:46:19 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-300.D

Injection Date: 16-Dec-2020 16:34:56 Instrument ID: HP6890-6 Operator ID: BufTCHROM

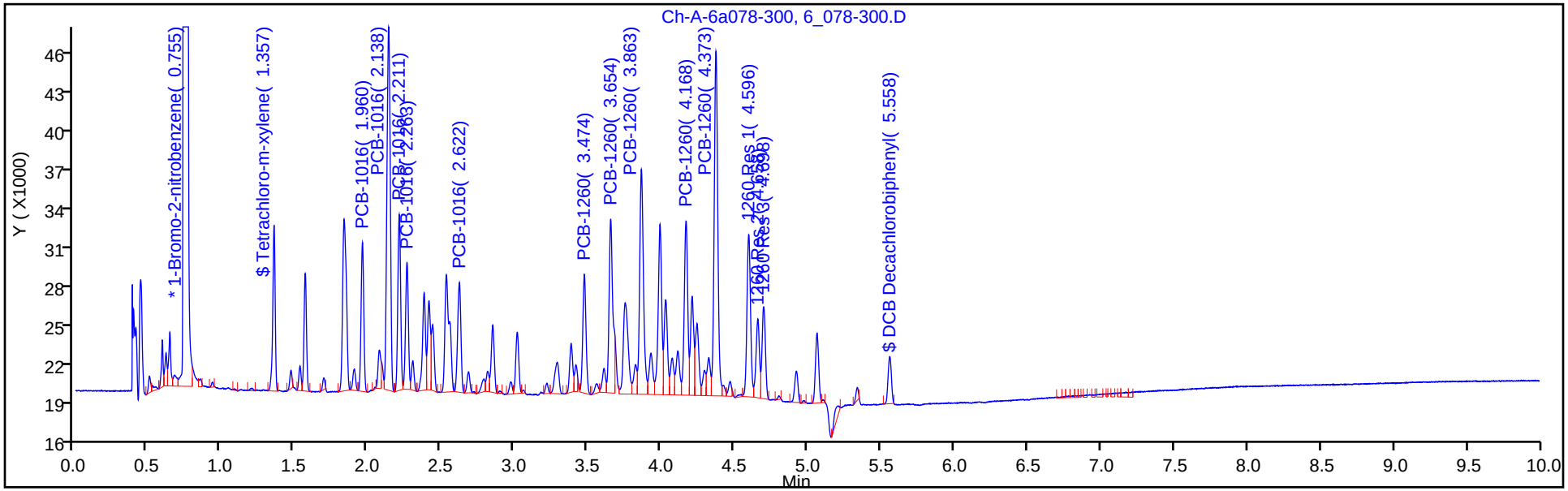
Lims ID: IC level 2 Worklist Smp#: 8

Client ID:

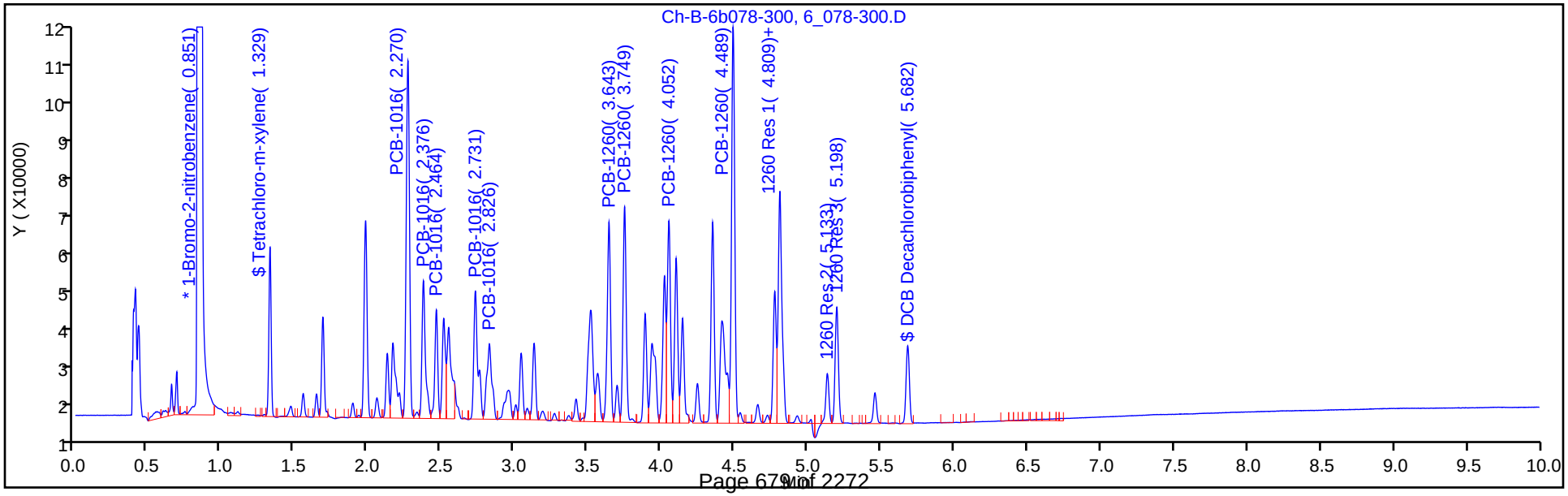
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Eurofins TestAmerica, Buffalo

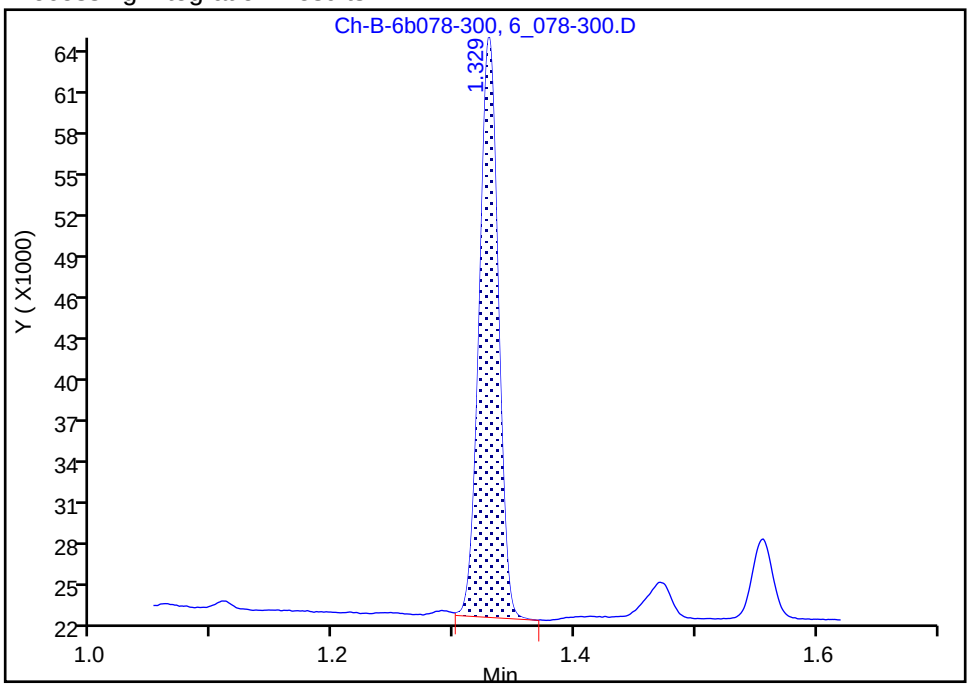
Data File:	\\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-300.D				
Injection Date:	16-Dec-2020 16:34:56	Instrument ID:	HP6890-6		
Lims ID:	IC level 2				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:	ZB-35 (0.53 mm)	Detector	Ch-B-7b136		

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

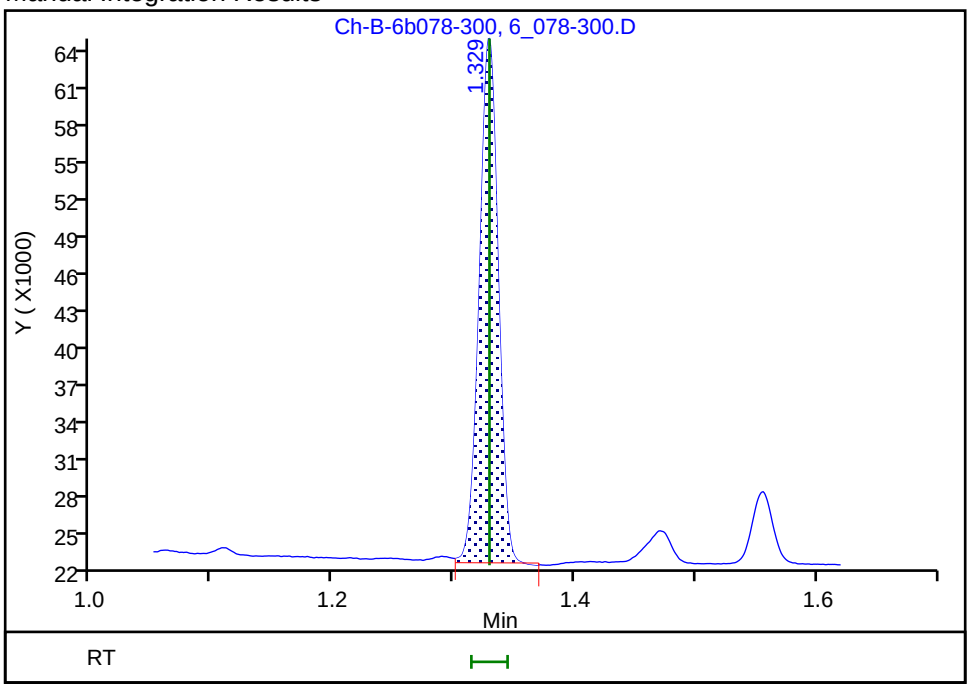
Processing Integration Results

RT: 1.33
Area: 45572
Amount: 0.001311
Amount Units: ng/uL



Manual Integration Results

RT: 1.33
Area: 45524
Amount: 0.001255
Amount Units: ng/uL



Reviewer: clarkda, 16-Dec-2020 17:06:48
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 17-Dec-2020 13:46:19 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-300.D

Injection Date: 16-Dec-2020 16:34:56 Instrument ID: HP6890-6

Lims ID: IC level 2

Client ID:

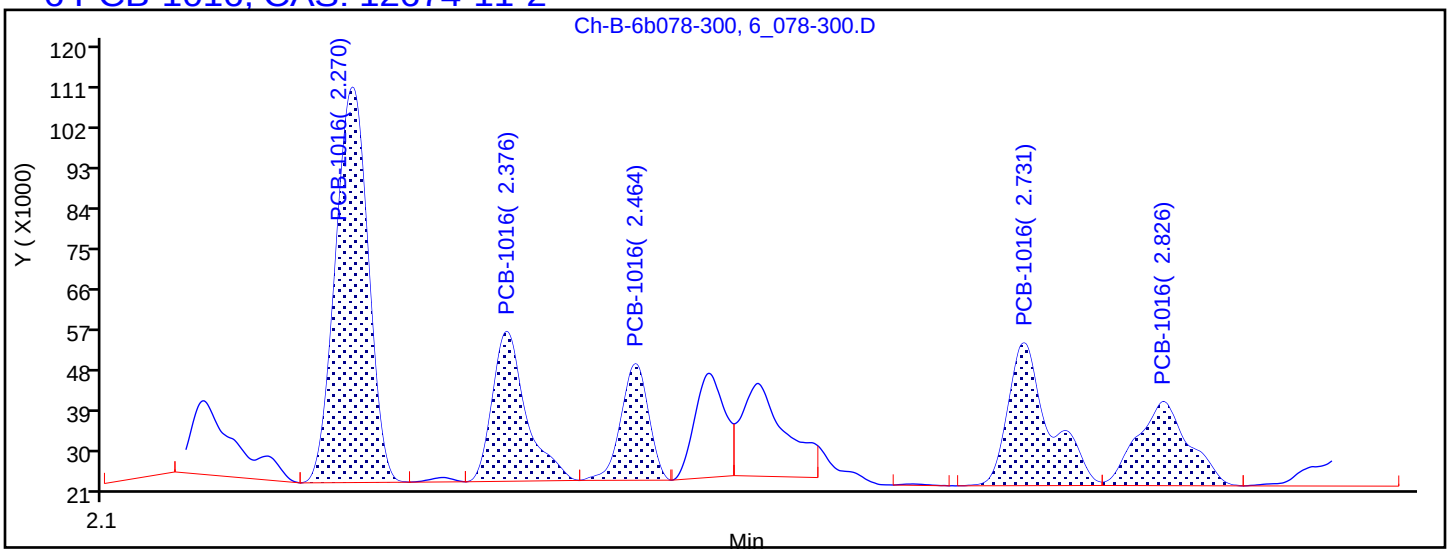
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

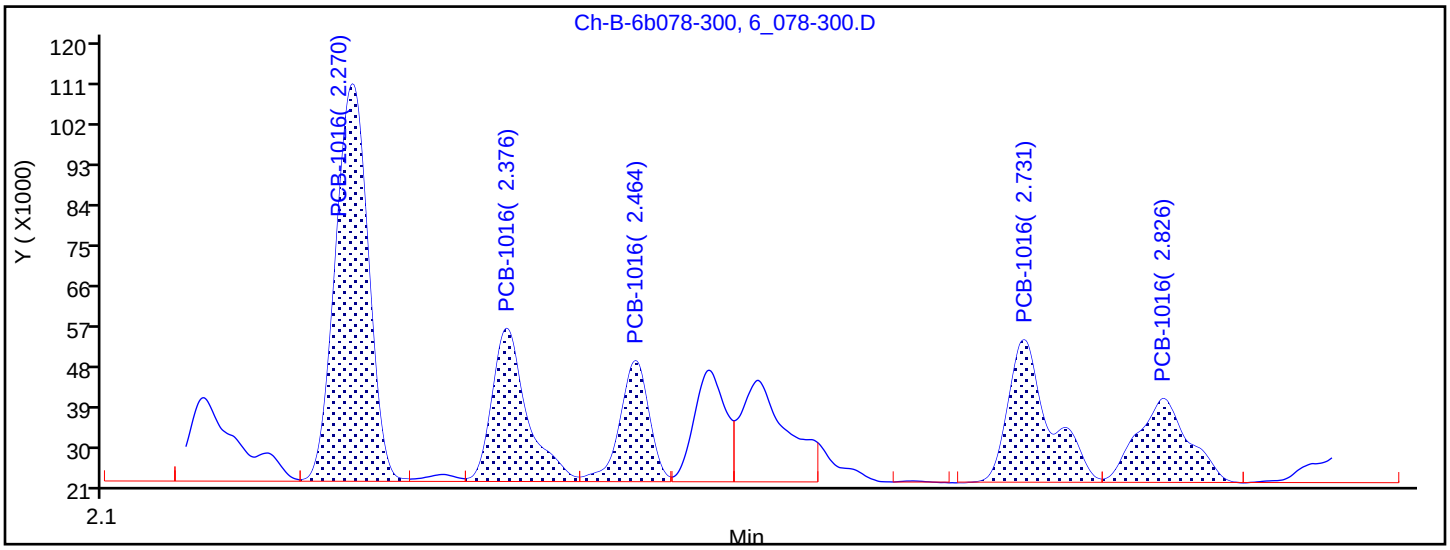
Column: ZB-35 (0.53 mm) Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.270	Response = 137155
2.376	Response = 53116
2.464	Response = 33845
2.731	Response = 62788
2.826	Response = 45845



Manual Integration Results

2.270	Response = 138937	M
2.376	Response = 56739	M
2.464	Response = 37533	M
2.731	Response = 62223	M
2.826	Response = 45506	M

Reviewer: clarkda, 16-Dec-2020 17:06:48

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 17-Dec-2020 13:46:19 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-300.D

Injection Date: 16-Dec-2020 16:34:56 Instrument ID: HP6890-6

Lims ID: IC level 2

Client ID:

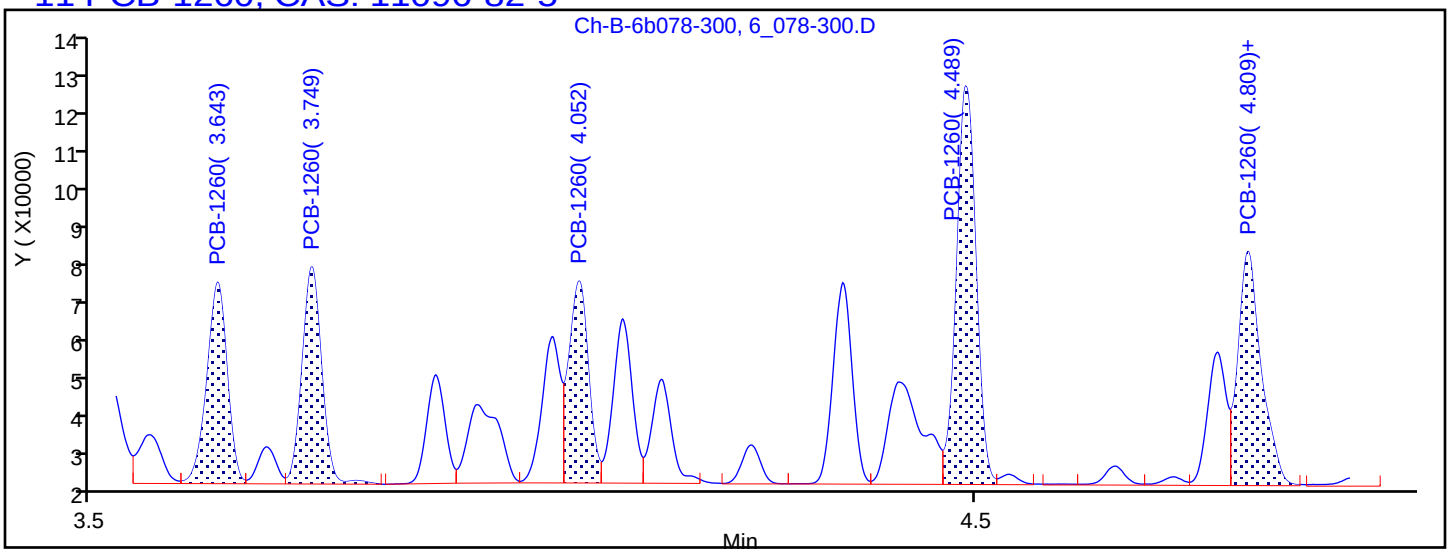
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

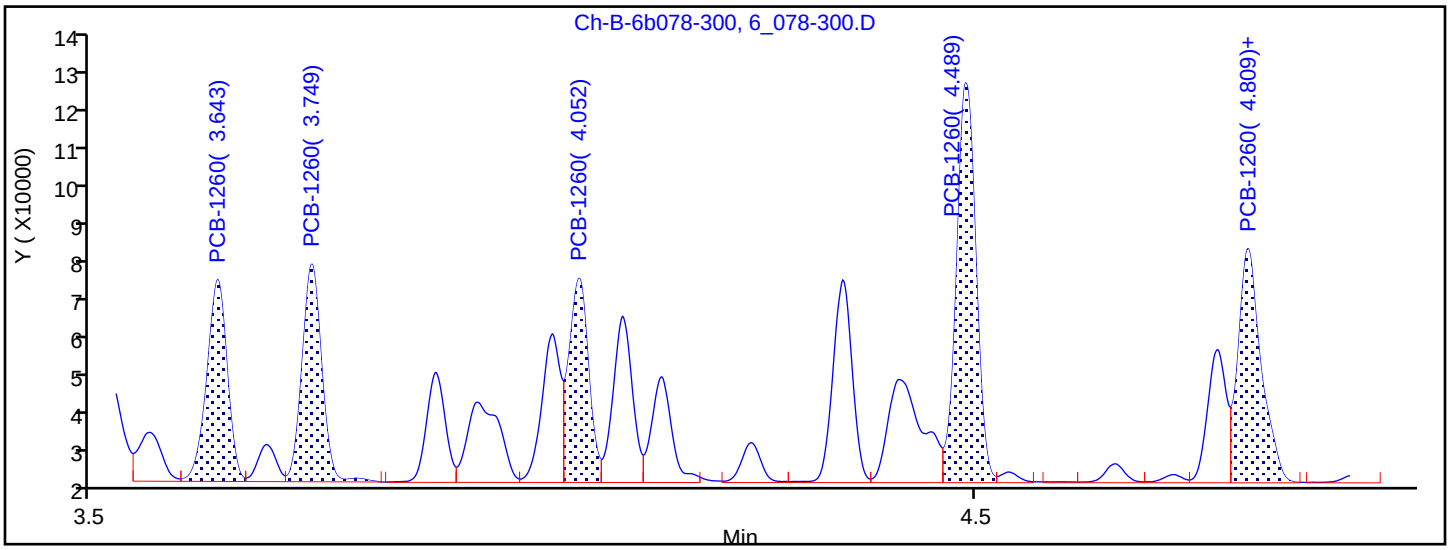
Column: ZB-35 (0.53 mm) Detector Ch-B-7b136

11 PCB-1260, CAS: 11096-82-5



Processing Integration Results

3.643	Response = 79235
3.749	Response = 82536
4.052	Response = 76441
4.489	Response = 149927
4.809	Response = 104665



Manual Integration Results

3.643	Response = 79235	
3.749	Response = 82536	
4.052	Response = 77516	M
4.489	Response = 150289	M
4.809	Response = 103964	M

Reviewer: clarkda, 16-Dec-2020 17:09:20

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

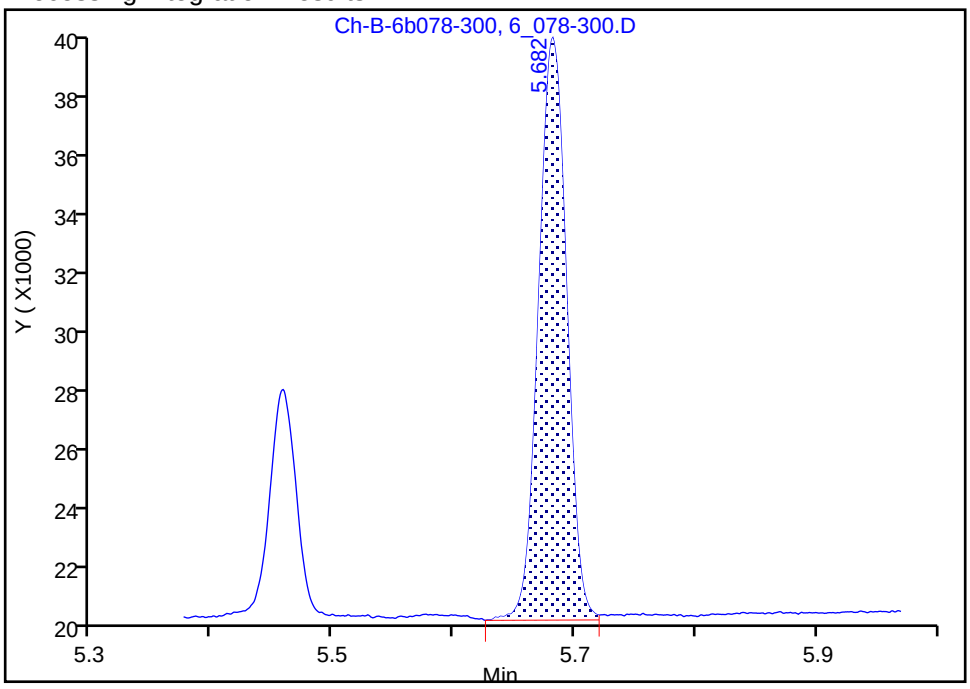
Data File:	\\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-300.D				
Injection Date:	16-Dec-2020 16:34:56	Instrument ID:	HP6890-6		
Lims ID:	IC level 2				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:	ZB-35 (0.53 mm)	Detector	Ch-B-7b136		

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

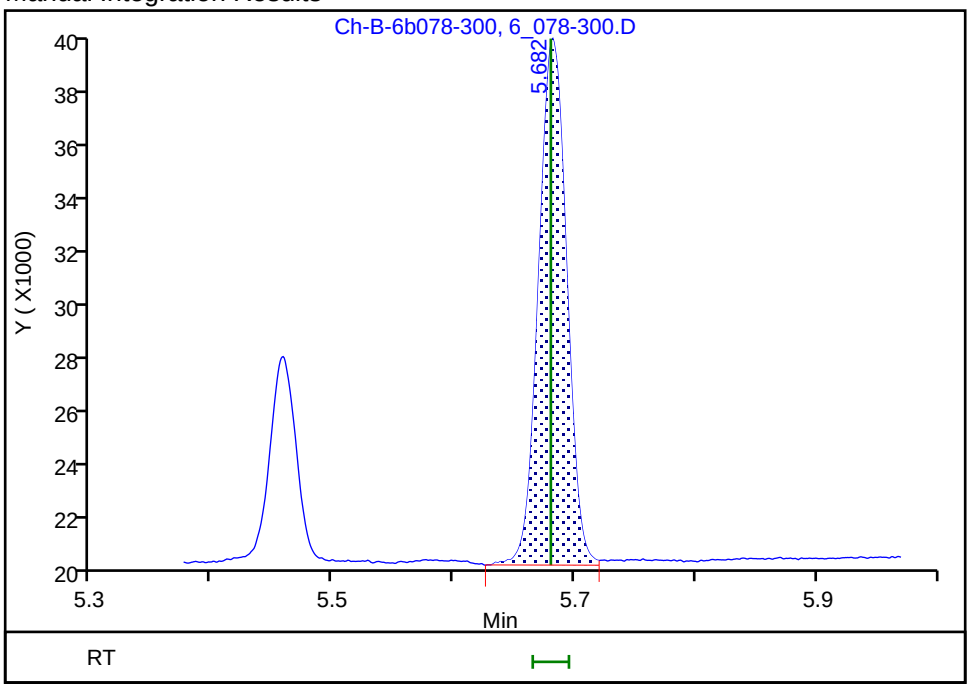
Processing Integration Results

RT: 5.68
Area: 31112
Amount: 0.001273
Amount Units: ng/uL



Manual Integration Results

RT: 5.68
Area: 31115
Amount: 0.001319
Amount Units: ng/uL



Reviewer: clarkda, 16-Dec-2020 17:09:20

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-301.D
Lims ID: IC level 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 16-Dec-2020 16:47:14 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 17-Dec-2020 13:46:21 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1645

First Level Reviewer: clarkda Date: 16-Dec-2020 17:05:30

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.753	0.753	0.000	4274618	0.5000	0.5000	
2	0.849	0.849	0.000	11594825	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	1.353	1.353	0.000	5911	0.000500	0.000486	
2	1.328	1.328	0.000	19945	0.000500	0.000492	M
						RPD = 1.17	
6 PCB-1016							M
1	1.957	1.957	0.000	5915	0.0200	0.0232	
1	2.138	2.138	0.000	18661	0.0200	0.0180	
1	2.209	2.209	0.000	7263	0.0200	0.0156	
1	2.261	2.261	0.000	5638	0.0200	0.0161	
1	2.620	2.620	0.000	5293	0.0200	0.0155	M
		Average of Peak Amounts =				0.0177	
2	2.269	2.269	0.000	58431	0.0200	0.0194	M
2	2.375	2.375	0.000	24554	0.0200	0.0193	M
2	2.463	2.463	0.000	16245	0.0200	0.0194	M
2	2.730	2.730	0.000	20884	0.0200	0.0193	M
2	2.826	2.826	0.000	19583	0.0200	0.0193	M
		Average of Peak Amounts =				0.0193	
						RPD = 8.91	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	3.473	3.473	0.000	5642	0.0200	0.0176	
1	3.653	3.653	0.000	11473	0.0200	0.0198	M
1	3.863	3.863	0.000	14250	0.0200	0.0192	
1	4.167	4.167	0.000	10752	0.0200	0.0177	
1	4.371	4.371	0.000	20318	0.0200	0.0194	
		Average of Peak Amounts =				0.0187	
2	3.642	3.642	0.000	33999	0.0200	0.0160	M
2	3.748	3.748	0.000	35782	0.0200	0.0193	M
2	4.050	4.050	0.000	33353	0.0200	0.0164	M
2	4.489	4.489	0.000	63622	0.0200	0.0166	M
2	4.809	4.809	0.000	44879	0.0200	0.0195	M
		Average of Peak Amounts =				0.0176	
						RPD = 6.48	
9 1260 Res 1							M
1	4.595	4.595	0.000	7767	NR	NR	
2	4.809	4.809	0.000	44879	NR	NR	M
						RPD = NaN	
14 1260 Res 2							M
1	4.658	4.658	0.000	3571	NR	NR	
2	5.132	5.132	0.000	7898	NR	NR	M
						RPD = NaN	
12 1260 Res 3							M
1	4.698	4.698	0.000	4061	NR	NR	
2	5.197	5.197	0.000	19602	NR	NR	M
						RPD = NaN	
$ 15 DCB Decachlorobiphenyl							M
1	5.558	5.558	0.000	2355	0.000500	0.000571	M
2	5.681	5.681	0.000	13752	0.000500	0.000480	M
						RPD = 17.37	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.02_00021 Amount Added: 1.00 Units: mL

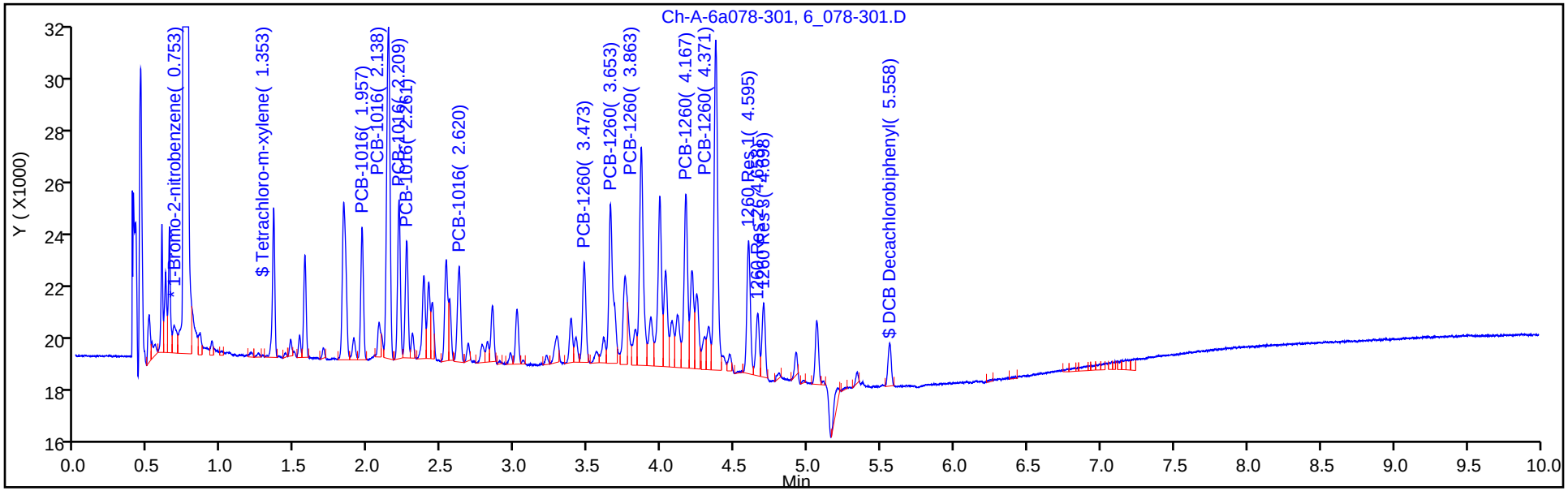
Report Date: 17-Dec-2020 13:46:22 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

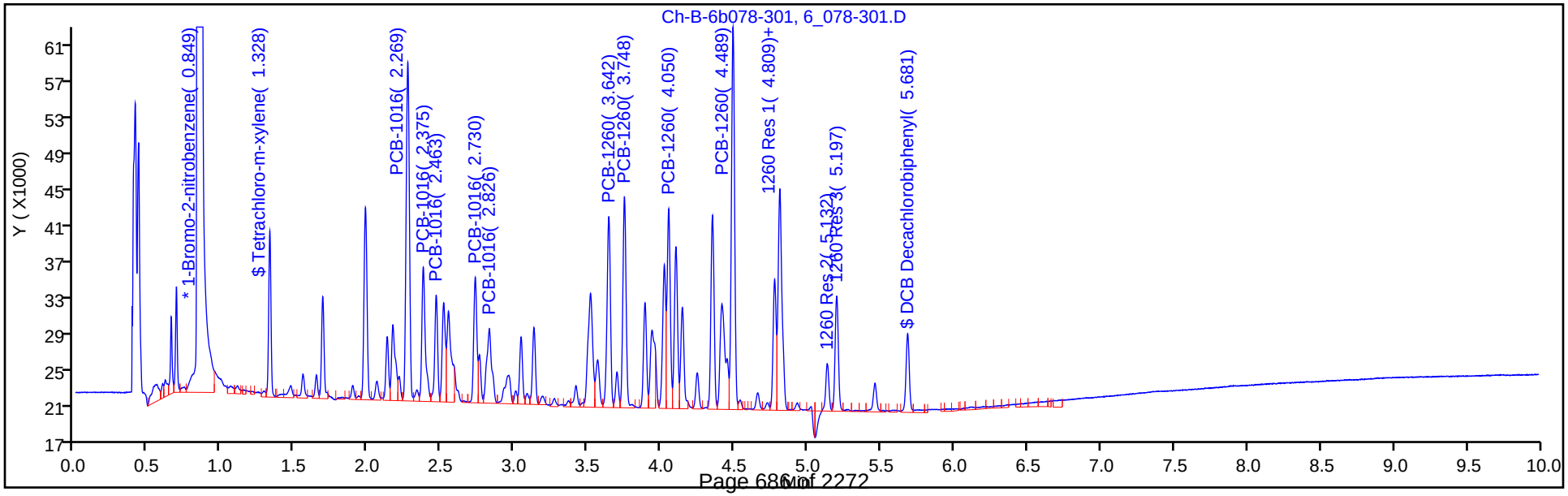
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-301.D

Injection Date:	16-Dec-2020 16:47:14	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC level 1			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

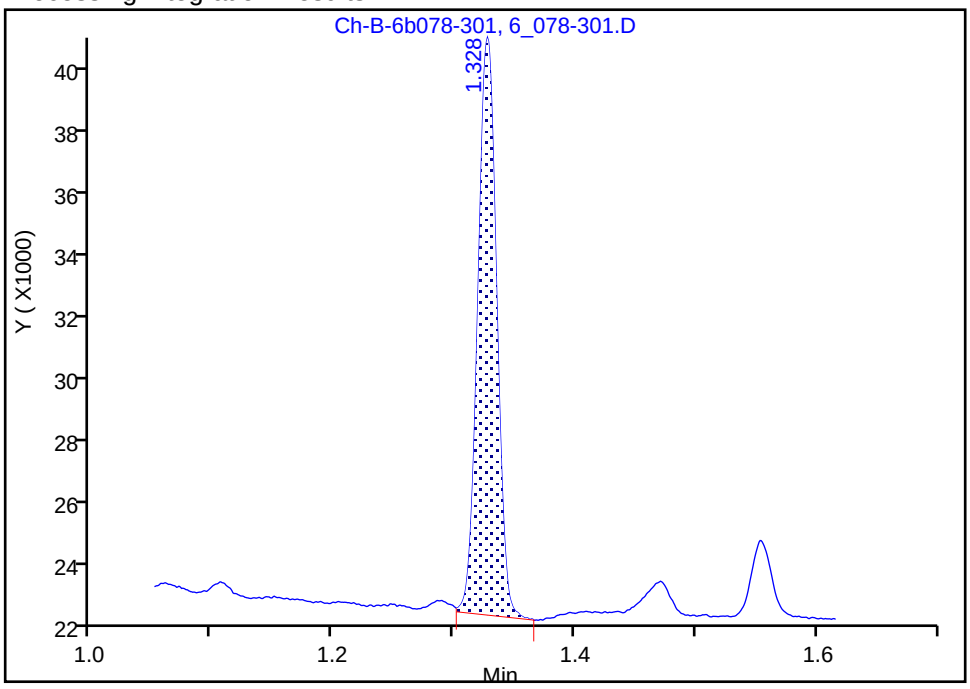
Data File:	\\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-301.D				
Injection Date:	16-Dec-2020 16:47:14	Instrument ID:	HP6890-6		
Lims ID:	IC level 1				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:	ZB-35 (0.53 mm)	Detector	Ch-B-7b136		

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

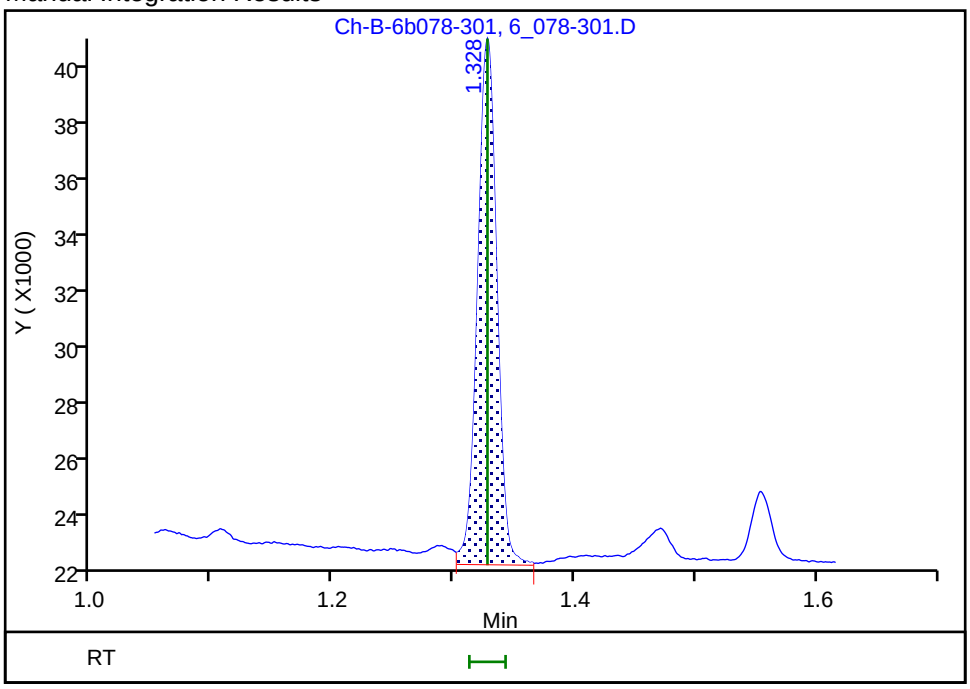
Processing Integration Results

RT: 1.33
Area: 19231
Amount: 0.000571
Amount Units: ng/uL



Manual Integration Results

RT: 1.33
Area: 19945
Amount: 0.000492
Amount Units: ng/uL



Reviewer: clarkda, 16-Dec-2020 17:06:59

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 17-Dec-2020 13:46:22 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-301.D

Injection Date: 16-Dec-2020 16:47:14 Instrument ID: HP6890-6

Lims ID: IC level 1

Client ID:

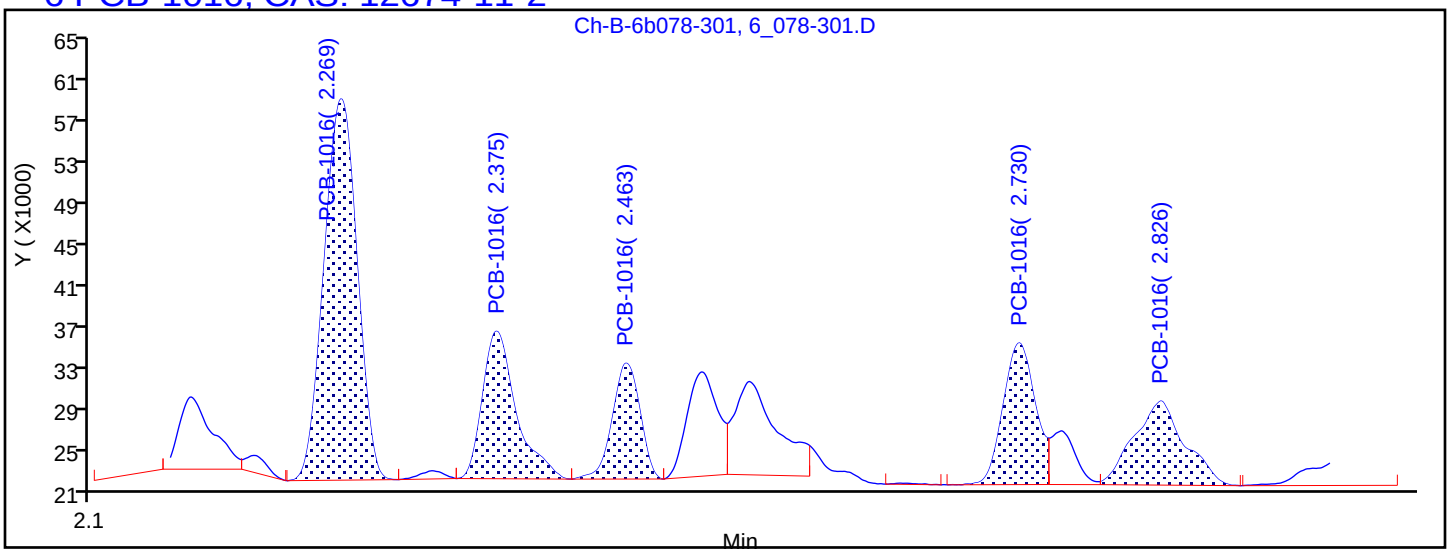
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 9

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

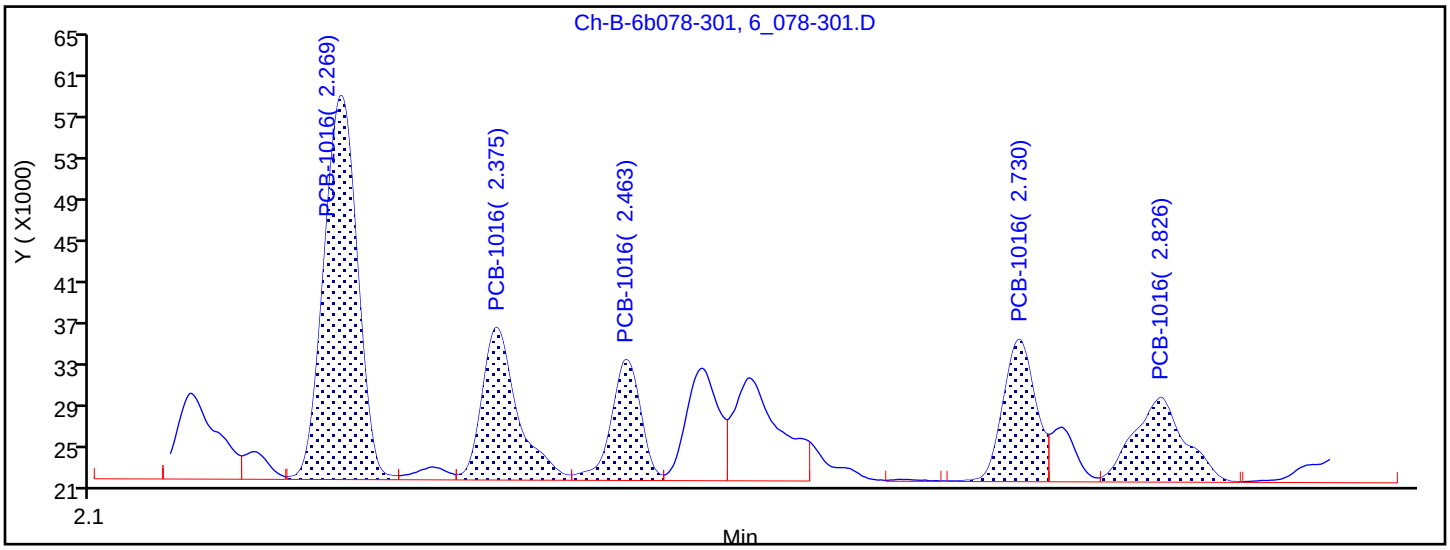
Column: ZB-35 (0.53 mm) Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.269	Response = 57038
2.375	Response = 22280
2.463	Response = 14398
2.730	Response = 20595
2.826	Response = 19164



Manual Integration Results

2.269	Response = 58431	M
2.375	Response = 24554	M
2.463	Response = 16245	M
2.730	Response = 20884	M
2.826	Response = 19583	M

Reviewer: clarkda, 16-Dec-2020 17:06:59

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 17-Dec-2020 13:46:22 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-301.D

Injection Date: 16-Dec-2020 16:47:14 Instrument ID: HP6890-6

Lims ID: IC level 1

Client ID:

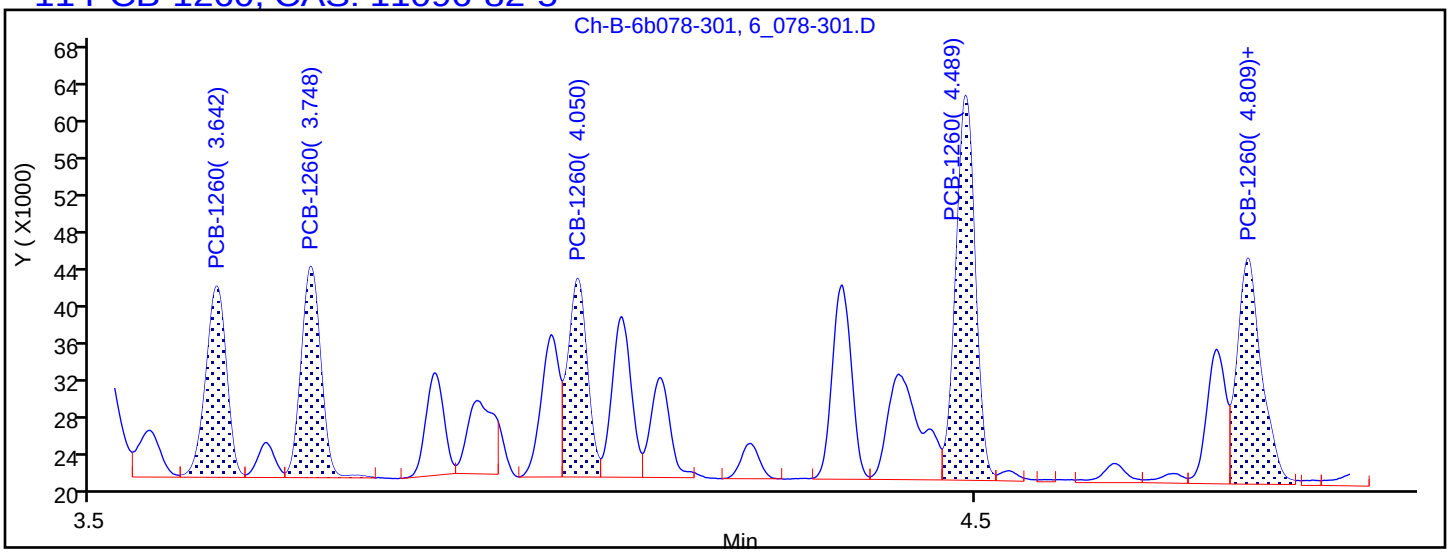
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 9

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

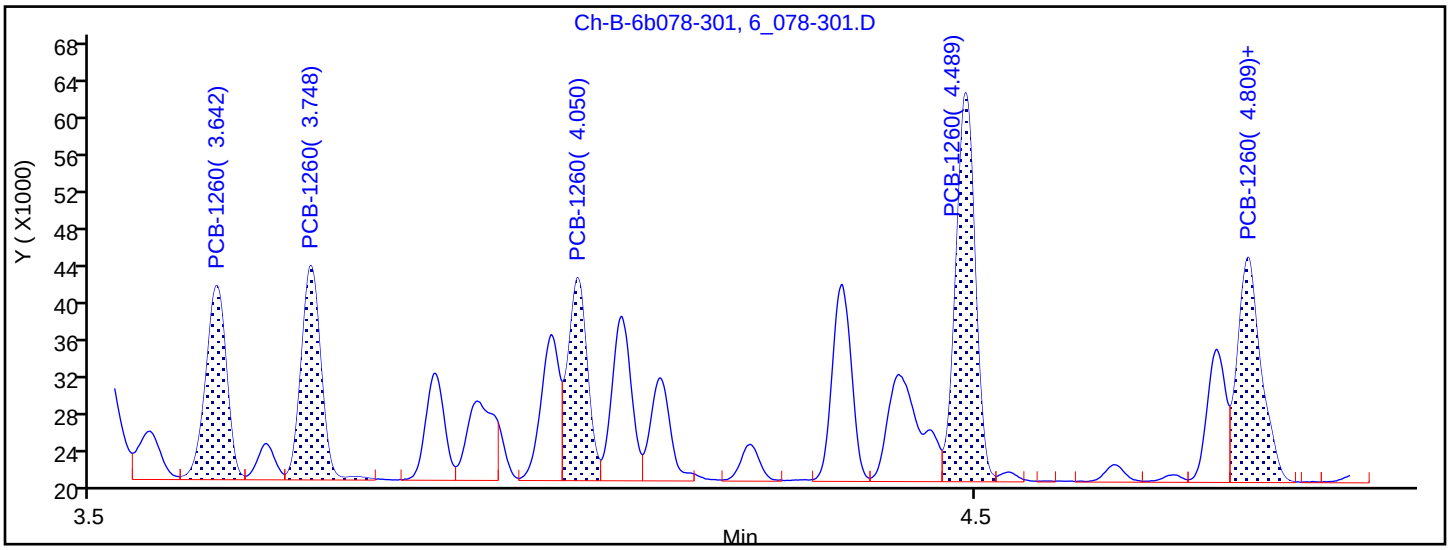
Column: ZB-35 (0.53 mm) Detector Ch-B-7b136

11 PCB-1260, CAS: 11096-82-5



Processing Integration Results

3.642	Response = 33528
3.748	Response = 35210
4.050	Response = 32719
4.489	Response = 63607
4.809	Response = 46377



Manual Integration Results

3.642	Response = 33999	M
3.748	Response = 35782	M
4.050	Response = 33353	M
4.489	Response = 63622	M
4.809	Response = 44879	M

Reviewer: clarkda, 16-Dec-2020 17:09:00

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Eurofins TestAmerica, Buffalo

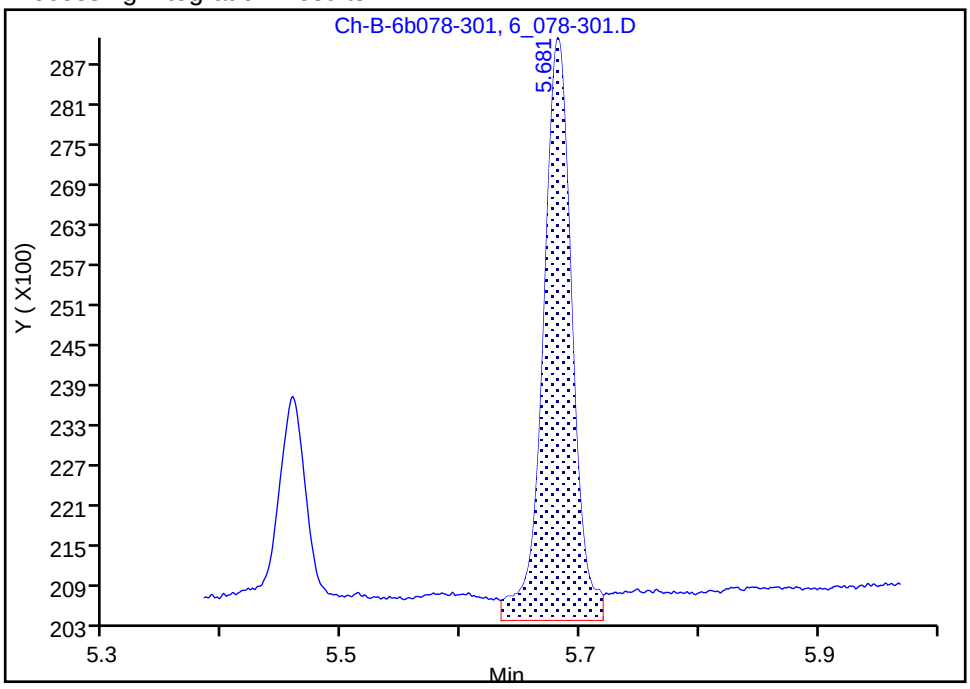
Data File:	\\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-301.D				
Injection Date:	16-Dec-2020 16:47:14	Instrument ID:	HP6890-6		
Lims ID:	IC level 1				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:	ZB-35 (0.53 mm)	Detector	Ch-B-7b136		

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

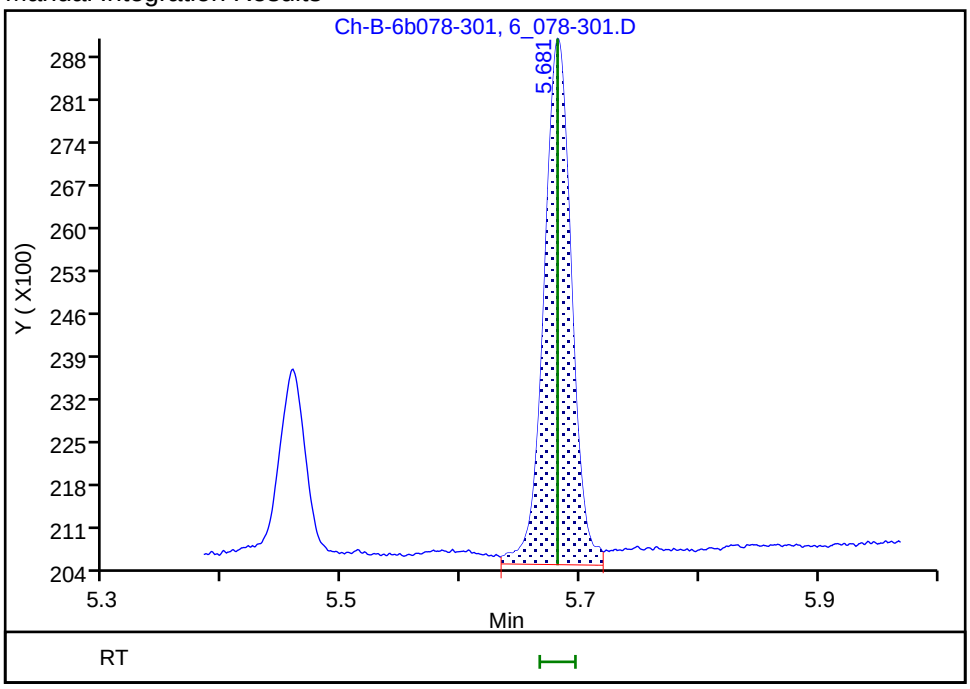
Processing Integration Results

RT: 5.68
Area: 14653
Amount: 0.000395
Amount Units: ng/uL



Manual Integration Results

RT: 5.68
Area: 13752
Amount: 0.000480
Amount Units: ng/uL



Reviewer: clarkda, 16-Dec-2020 17:09:00
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 541875

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2020 16:32 Calibration End Date: 07/23/2020 18:07 Calibration ID: 40050

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-541875/11	7_72-295.D
Level 2	IC 480-541875/10	7_72-294.D
Level 3	IC 480-541875/9	7_72-293.D
Level 4	IC 480-541875/8	7_72-292.D
Level 5	ICIS 480-541875/7	7_72-291.D
Level 6	IC 480-541875/6	7_72-290.D
Level 7	IC 480-541875/5	7_72-289.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0294 0.0240	0.0299 +++++	0.0286	0.0245	0.0245	Lin1	0.0002	0.0240				11.1			0.9980		0.9900
PCB-1016 Peak 2	0.0856 0.0802	0.0803 0.0736	0.0798	0.0682	0.0748	Lin1	0.0002	0.0751				6.0			0.9980		0.9900
PCB-1016 Peak 3	0.0536 0.0427	0.0501 0.0420	0.0487	0.0419	0.0420	Lin1	0.0003	0.0420				6.3			1.0000		0.9900
PCB-1016 Peak 4	0.0364 0.0289	0.0347 0.0282	0.0332	0.0285	0.0284	Lin1	0.0002	0.0282				7.6			0.9990		0.9900
PCB-1016 Peak 5	0.0427 0.0335	0.0406 0.0330	0.0387	0.0333	0.0332	Lin1	0.0003	0.0330				7.4			0.9990		0.9900
PCB-1260 Peak 1	0.0789 0.0613	0.0723 0.0612	0.0680	0.0589	0.0600	Lin1	0.0004	0.0606				4.9			1.0000		0.9900
PCB-1260 Peak 2	0.0861 0.0684	0.0795 0.0679	0.0748	0.0647	0.0665	Lin1	0.0004	0.0674				4.9			0.9990		0.9900
PCB-1260 Peak 3	0.0977 0.0820	0.0947 0.0823	0.0897	0.0783	0.0799	Lin1	0.0004	0.0814				5.2			0.9990		0.9900
PCB-1260 Peak 4	0.0682 0.0521	0.0640 0.0518	0.0592	0.0509	0.0515	Lin1	0.0004	0.0514				6.6			1.0000		0.9900
PCB-1260 Peak 5	0.1588 0.1335	0.1510 0.1319	0.1404	0.1230	0.1295	Lin1	0.0006	0.1311				5.0			0.9990		0.9900
Tetrachloro-m-xylene	1.6617 1.5143	1.6307 1.5013	1.6102	1.4286	1.4857	Lin1	0.0001	1.4970				4.0			1.0000		0.9900
DCB Decachlorobiphenyl	1.4876 1.0755	1.4150 +++++	1.3421	1.1469	1.0955	Lin1	0.0003	1.0759				12.7			0.9980		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 541875

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2020 16:32 Calibration End Date: 07/23/2020 18:07 Calibration ID: 40050

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-541875/11	7_72-295.D
Level 2	IC 480-541875/10	7_72-294.D
Level 3	IC 480-541875/9	7_72-293.D
Level 4	IC 480-541875/8	7_72-292.D
Level 5	ICIS 480-541875/7	7_72-291.D
Level 6	IC 480-541875/6	7_72-290.D
Level 7	IC 480-541875/5	7_72-289.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Lin1	7106 269076	17691 +++++	33009	62120	140886	0.0200 1.00	0.0500 +++++	0.100	0.200	0.500
PCB-1016 Peak 2	BNB	Lin1	20660 900107	47575 1670179	92124	172849	430106	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 3	BNB	Lin1	12938 479663	29651 952914	56214	106198	241682	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 4	BNB	Lin1	8794 324685	20544 639082	38343	72349	163652	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 5	BNB	Lin1	10321 376414	24024 748712	44691	84403	190930	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 1	BNB	Lin1	19039 688407	42841 1389104	78506	149405	345158	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 2	BNB	Lin1	20800 767341	47112 1542239	86386	164086	382476	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 3	BNB	Lin1	23601 920161	56087 1868328	103583	198594	459855	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 4	BNB	Lin1	16462 584236	37931 1175716	68361	128911	296539	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 5	BNB	Lin1	38335 1497892	89448 2993624	162090	311882	744855	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
Tetrachloro-m-xylene	BNB	Lin1	10030 424907	24147 852079	46483	90534	213707	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125
DCB Decachlorobiphenyl	BNB	Lin1	8979 301782	20952 +++++	38744	72681	157572	0.000500 0.0250	0.00125 +++++	0.00250	0.00500	0.0125

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-289.D
Lims ID: IC level 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 23-Jul-2020 16:32:43 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Jul-2020 08:59:43 Calib Date: 23-Jul-2020 18:07:54
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1059

First Level Reviewer: clarkda Date: 23-Jul-2020 17:21:57

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.244	2.244	0.000	5675433	0.5000	0.5000	
2	2.465	2.465	0.000	5891353	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	3.317	3.317	0.000	852079	0.0500	0.0501	
2	3.293	3.293	0.000	868039	0.0500	0.0499	
						RPD = 0.27	
9 PCB-1016							
1	3.598	3.598	0.000	514738	2.00	1.88	
1	4.342	4.342	0.000	1670179	2.00	1.96	
1	4.431	4.431	0.000	952914	2.00	1.99	
1	4.501	4.501	0.000	639082	2.00	1.99	
1	4.924	4.924	0.000	748712	2.00	1.99	
		Average of Peak Amounts =				1.96	
2	4.493	4.493	0.000	1409746	2.00	1.98	
2	4.620	4.620	0.000	907867	2.00	1.97	
2	4.729	4.729	0.000	556874	2.00	1.81	
2	5.030	5.030	0.000	734418	2.00	1.71	
2	5.148	5.148	0.000	378987	2.00	1.70	
		Average of Peak Amounts =				1.83	
						RPD = 6.72	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							
1	5.920	5.920	0.000	1389104	2.00	2.01	
1	6.133	6.133	0.000	1542239	2.00	2.01	
1	6.444	6.444	0.000	1868328	2.00	2.02	
1	6.905	6.905	0.000	1175716	2.00	2.01	
1	7.222	7.222	0.000	2993624	2.00	2.01	
		Average of Peak Amounts =				2.01	
2	6.120	6.120	0.000	1173812	2.00	1.99	
2	6.236	6.236	0.000	1455963	2.00	2.01	
2	6.706	6.706	0.000	1419387	2.00	2.01	
2	7.433	7.433	0.000	3153699	2.00	2.00	
2	8.132	8.132	0.000	1946489	2.00	1.99	
		Average of Peak Amounts =				2.00	
						RPD = 0.54	
$ 15 DCB Decachlorobiphenyl							
1	10.151	10.151	0.000	585946	0.0500	0.0477	
2	10.817	10.817	0.000	607877	0.0500	0.0466	
						RPD = 2.36	

Reagents:

1660sur/is2.0_00019 Amount Added: 1.00 Units: mL

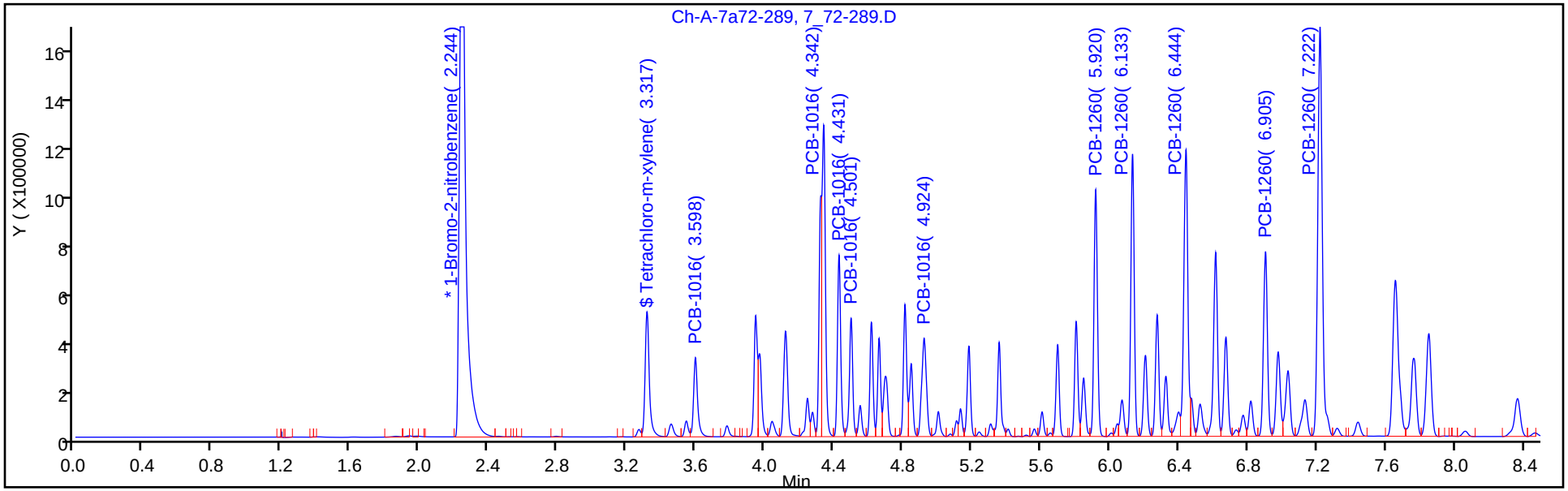
Report Date: 24-Jul-2020 08:59:43 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Buffalo

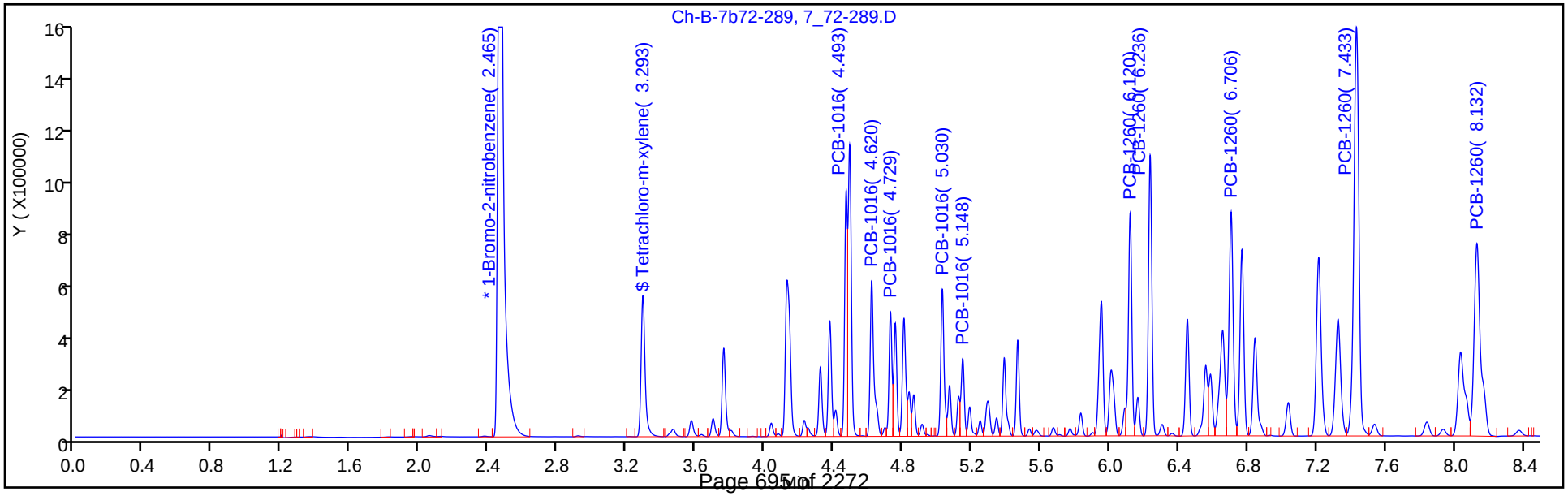
Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-289.D

Injection Date:	23-Jul-2020 16:32:43	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC level 7			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-290.D
Lims ID: IC level 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 23-Jul-2020 16:48:35 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Jul-2020 08:59:44 Calib Date: 23-Jul-2020 18:07:54
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1059

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.242	2.244	-0.002	5611784	0.5000	0.5000	
2	2.464	2.465	-0.001	5828678	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	3.314	3.317	-0.003	424907	0.0250	0.0252	
2	3.292	3.293	0.000	433749	0.0250	0.0252	
						RPD = 0.24	
9 PCB-1016							
1	3.595	3.598	-0.003	269076	1.00	0.99	
1	4.341	4.342	-0.001	900107	1.00	1.06	
1	4.430	4.431	-0.001	479663	1.00	1.01	
1	4.498	4.501	-0.003	324685	1.00	1.02	
1	4.923	4.924	-0.001	376414	1.00	1.01	
		Average of Peak Amounts =				1.02	
2	4.492	4.493	0.000	734036	1.00	1.04	
2	4.619	4.620	-0.001	464131	1.00	1.01	
2	4.729	4.729	0.000	282670	1.00	0.9308	
2	5.028	5.030	-0.002	372010	1.00	0.8751	
2	5.148	5.148	0.000	191052	1.00	0.8637	
		Average of Peak Amounts =				0.9445	
						RPD = 7.52	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							
1	5.918	5.920	-0.002	688407	1.00	1.00	
1	6.132	6.133	-0.001	767341	1.00	1.01	
1	6.441	6.444	-0.003	920161	1.00	1.00	
1	6.903	6.905	-0.002	584236	1.00	1.00	
1	7.221	7.222	-0.001	1497892	1.00	1.01	
		Average of Peak Amounts =				1.01	
2	6.119	6.120	-0.001	596821	1.00	1.02	
2	6.235	6.236	-0.001	729536	1.00	1.01	
2	6.705	6.706	-0.001	706024	1.00	1.00	
2	7.433	7.433	0.001	1572436	1.00	1.01	
2	8.131	8.132	-0.001	975804	1.00	1.00	
		Average of Peak Amounts =				1.01	
						RPD = 0.23	
$ 15 DCB Decachlorobiphenyl							
1	10.147	10.151	-0.004	301782	0.0250	0.0247	
2	10.813	10.817	-0.004	318028	0.0250	0.0245	
						RPD = 0.93	

Reagents:

1660sur/is1.0_00018 Amount Added: 1.00 Units: mL

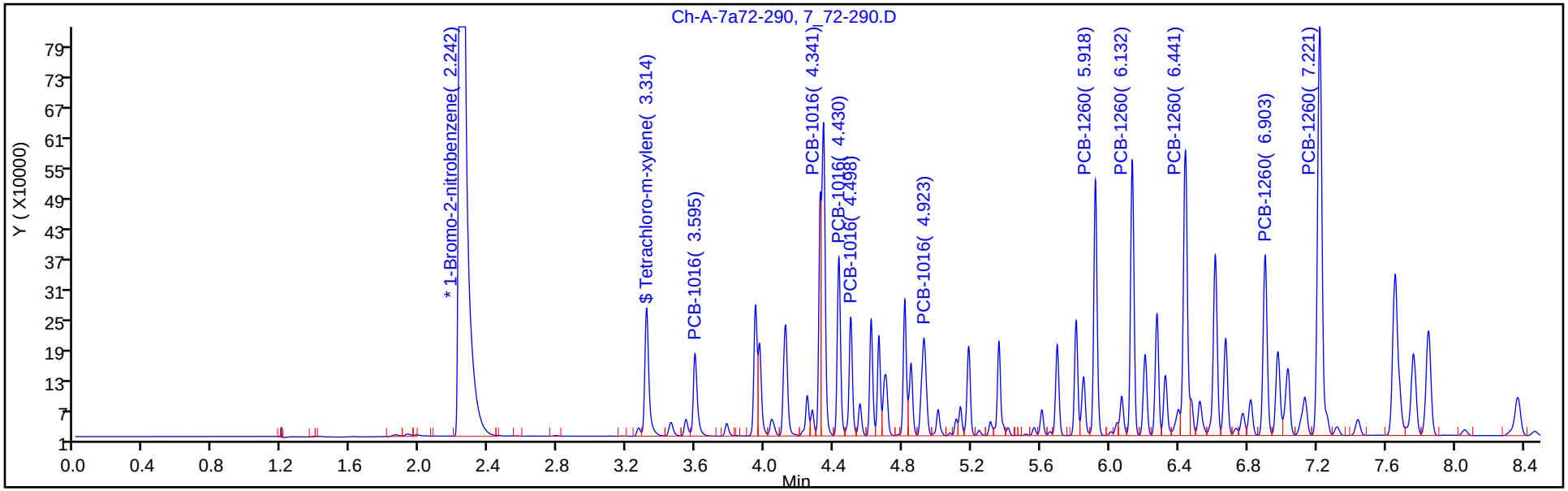
Report Date: 24-Jul-2020 08:59:45 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Buffalo

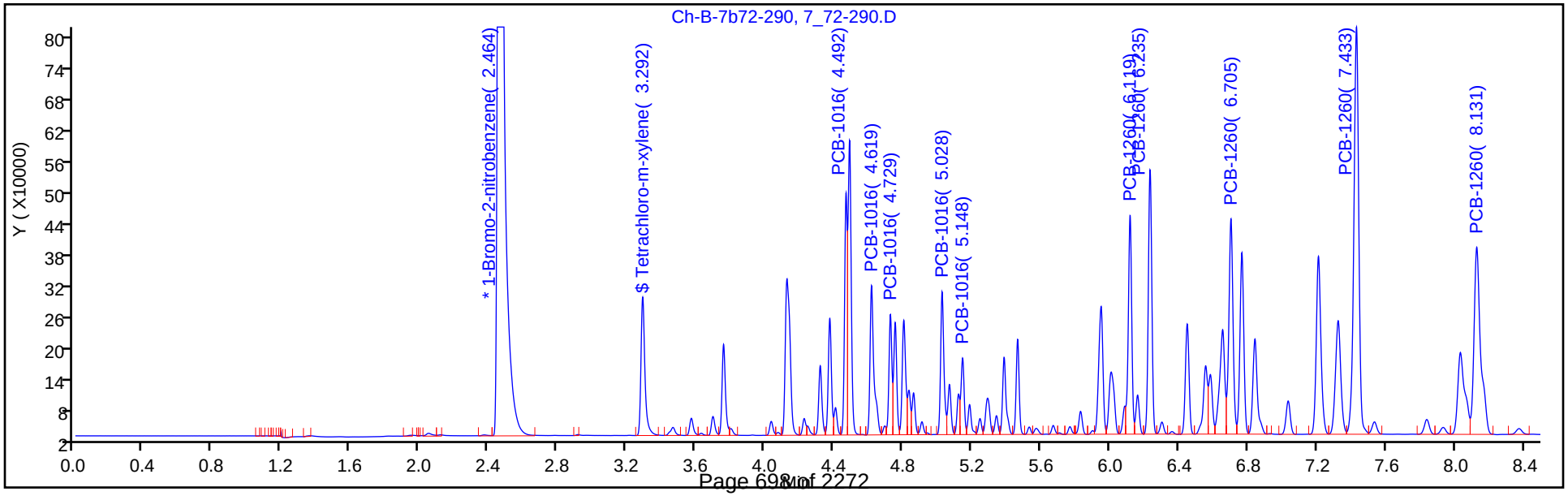
Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-290.D

Injection Date:	23-Jul-2020 16:48:35	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC level 6			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-291.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 23-Jul-2020 17:04:29 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Jul-2020 08:59:46 Calib Date: 23-Jul-2020 18:07:54
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1059

First Level Reviewer: clarkda Date: 23-Jul-2020 18:59:05

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.244	2.244	0.000	5753524	0.5000	0.5000	
2	2.464	2.464	0.000	5992334	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	3.317	3.317	0.000	213707	0.0125	0.0123	
2	3.293	3.293	0.000	221106	0.0125	0.0124	
						RPD = 0.60	
9 PCB-1016							
1	3.598	3.598	0.000	140886	0.5000	0.5018	
1	4.343	4.343	0.000	430106	0.5000	0.4950	
1	4.431	4.431	0.000	241682	0.5000	0.4933	
1	4.502	4.502	0.000	163652	0.5000	0.4952	
1	4.925	4.925	0.000	190930	0.5000	0.4950	
		Average of Peak Amounts =				0.4961	
2	4.492	4.492	0.000	355056	0.5000	0.4854	
2	4.620	4.620	0.000	239710	0.5000	0.5044	
2	4.729	4.729	0.000	144352	0.5000	0.4623	
2	5.030	5.030	0.000	193332	0.5000	0.4424	
2	5.148	5.148	0.000	101415	0.5000	0.4459	
		Average of Peak Amounts =				0.4681	
						RPD = 5.80	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							
1	5.921	5.921	0.000	345158	0.5000	0.4880	
1	6.134	6.134	0.000	382476	0.5000	0.4873	
1	6.443	6.443	0.000	459855	0.5000	0.4860	
1	6.906	6.906	0.000	296539	0.5000	0.4927	
1	7.223	7.223	0.000	744855	0.5000	0.4894	
		Average of Peak Amounts =				0.4887	
2	6.119	6.119	0.000	295314	0.5000	0.4847	
2	6.236	6.236	0.000	359299	0.5000	0.4800	
2	6.706	6.706	0.000	355934	0.5000	0.4886	
2	7.433	7.433	0.000	793809	0.5000	0.4928	
2	8.132	8.132	0.000	499500	0.5000	0.4929	
		Average of Peak Amounts =				0.4878	
						RPD = 0.18	
$ 15 DCB Decachlorobiphenyl							
1	10.149	10.149	0.000	157572	0.0125	0.0124	
2	10.817	10.817	0.000	170838	0.0125	0.0126	
						RPD = 1.54	

Reagents:

1660sur/is0.5_00104 Amount Added: 1.00 Units: mL

Report Date: 24-Jul-2020 08:59:46 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-291.D

Injection Date: 23-Jul-2020 17:04:29 Instrument ID: HP6890-7 Operator ID: BufTCHROM

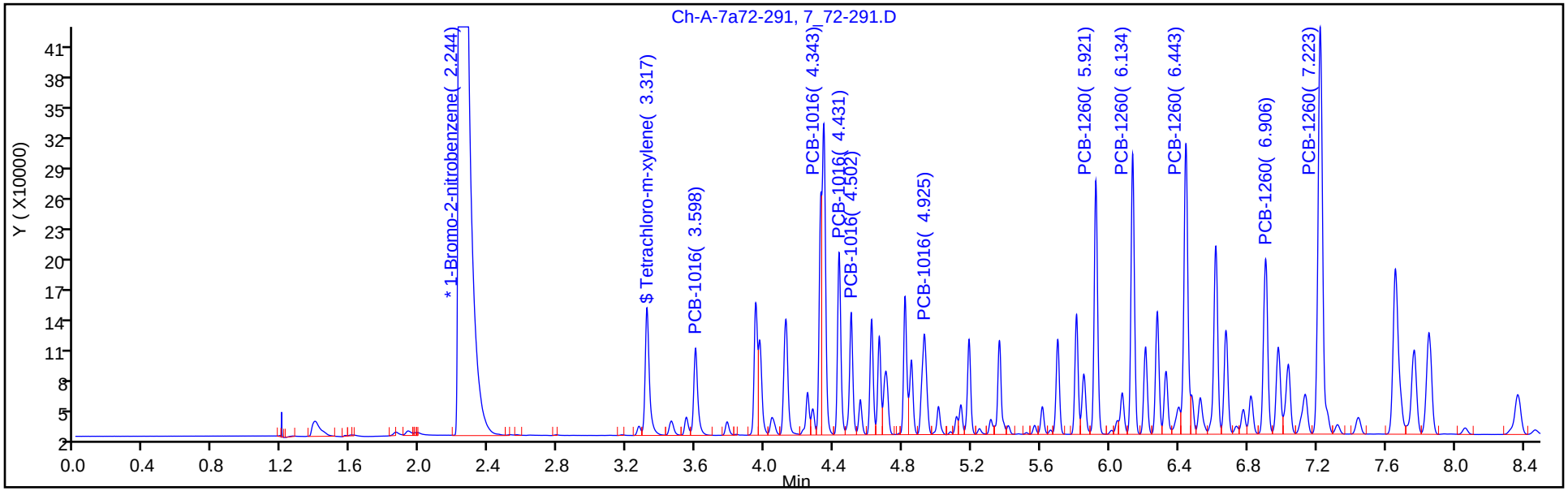
Lims ID: ICIS Worklist Smp#: 7

Client ID:

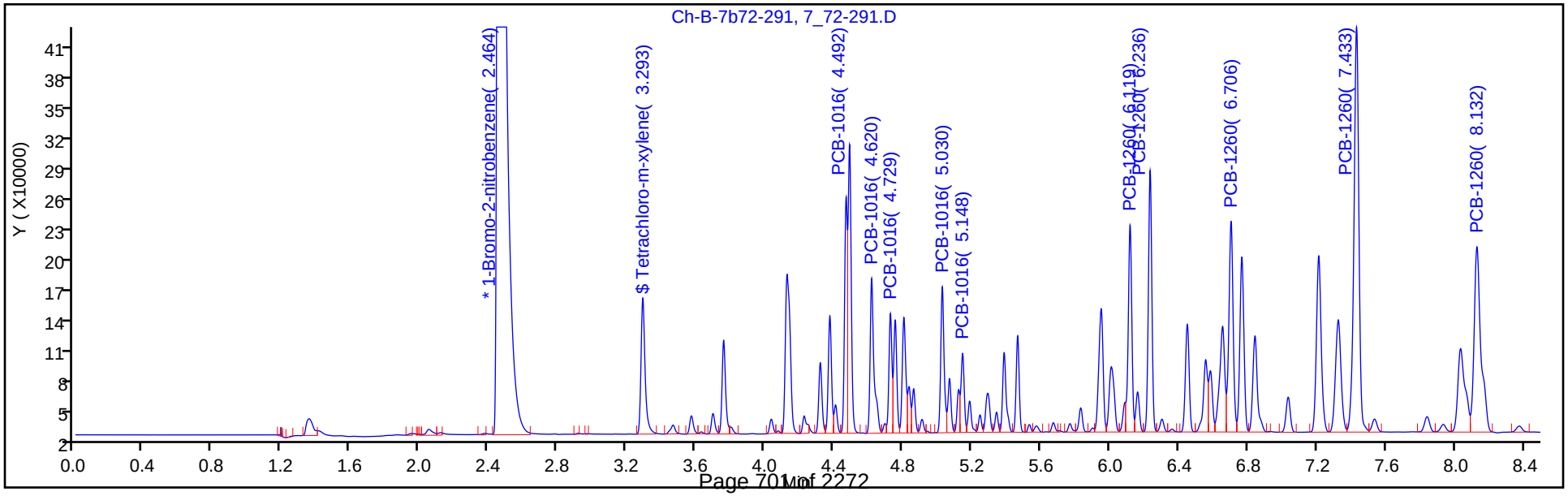
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-292.D
Lims ID: IC level 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 23-Jul-2020 17:20:20 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Jul-2020 08:59:47 Calib Date: 23-Jul-2020 18:07:54
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1059

First Level Reviewer: RudzG Date: 23-Jul-2020 17:50:32

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.247	2.244	0.003	6337162	0.5000	0.5000	
2	2.468	2.464	0.004	6585485	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	3.317	3.317	0.000	90534	0.005000	0.004705	
2	3.294	3.293	0.002	95610	0.005000	0.004808	
						RPD = 2.18	
9 PCB-1016							
1	3.598	3.598	0.000	62120	0.2000	0.1961	
1	4.342	4.343	0.000	172849	0.2000	0.1790	
1	4.431	4.431	0.000	106198	0.2000	0.1924	
1	4.500	4.502	-0.002	72349	0.2000	0.1938	
1	4.926	4.925	0.001	84403	0.2000	0.1937	
		Average of Peak Amounts =				0.1910	
2	4.493	4.492	0.001	155779	0.2000	0.1903	
2	4.621	4.620	0.001	106039	0.2000	0.1966	
2	4.730	4.729	0.001	62793	0.2000	0.1830	
2	5.031	5.030	0.001	85885	0.2000	0.1788	
2	5.149	5.148	0.001	44825	0.2000	0.1794	
		Average of Peak Amounts =				0.1856	
						RPD = 2.87	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							
1	5.921	5.921	0.000	149405	0.2000	0.1877	
1	6.135	6.134	0.001	164086	0.2000	0.1861	
1	6.443	6.443	-0.001	198594	0.2000	0.1876	
1	6.906	6.906	0.000	128911	0.2000	0.1895	
1	7.223	7.223	0.000	311882	0.2000	0.1834	
		Average of Peak Amounts =				0.1868	
2	6.122	6.119	0.003	133200	0.2000	0.1927	
2	6.238	6.236	0.002	161116	0.2000	0.1906	
2	6.708	6.706	0.002	156219	0.2000	0.1903	
2	7.436	7.433	0.003	338705	0.2000	0.1887	
2	8.137	8.132	0.005	233179	0.2000	0.2027	
		Average of Peak Amounts =				0.1930	
						RPD = 3.24	
$ 15 DCB Decachlorobiphenyl							
1	10.155	10.149	0.006	72681	0.005000	0.005038	
2	10.819	10.817	0.002	77756	0.005000	0.005035	
						RPD = 0.05	

Reagents:

1660sur/is0.2_00017 Amount Added: 1.00 Units: mL

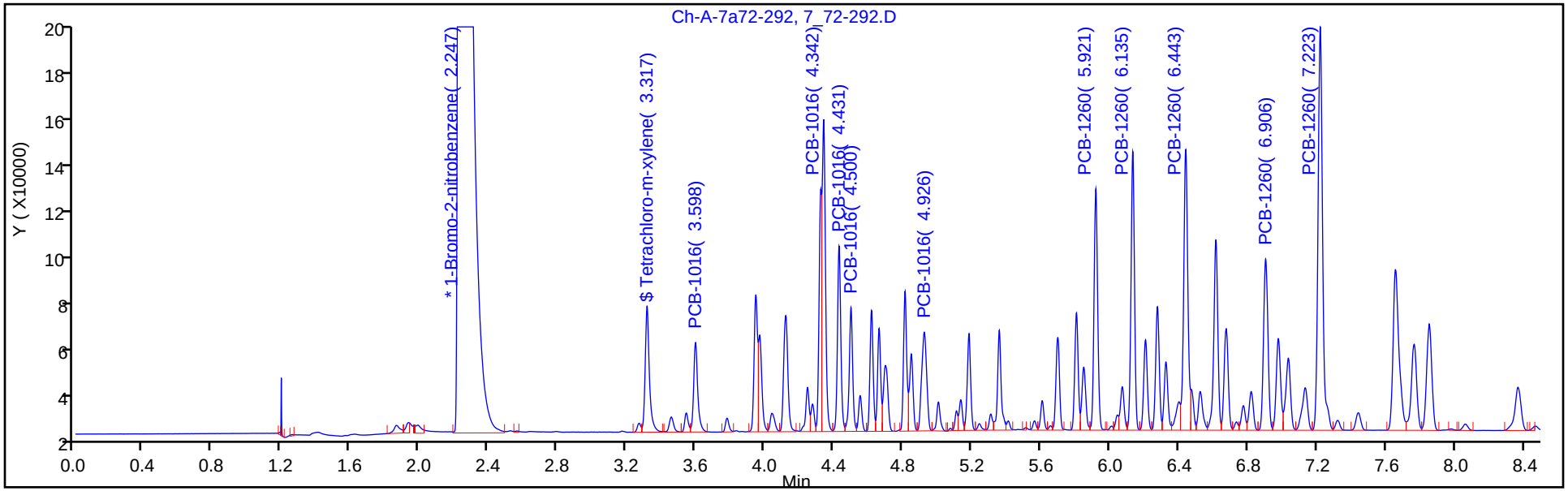
Report Date: 24-Jul-2020 08:59:47 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Buffalo

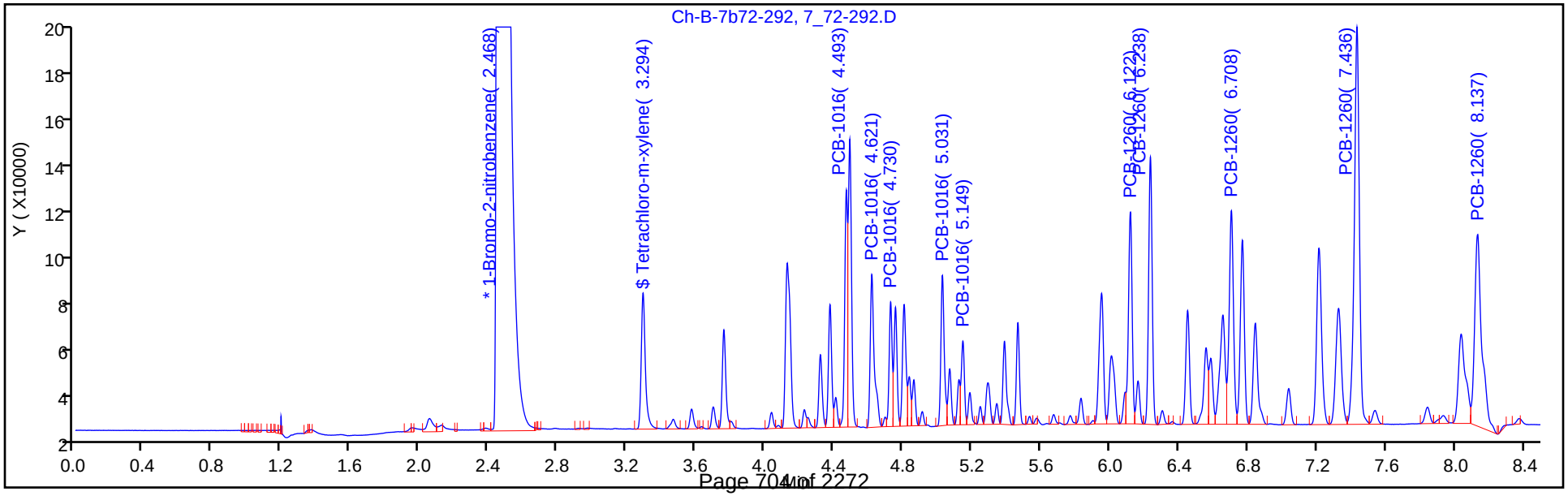
Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-292.D

Injection Date:	23-Jul-2020 17:20:20	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC level 4			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-293.D
Lims ID: IC level 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 23-Jul-2020 17:36:10 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Jul-2020 08:59:48 Calib Date: 23-Jul-2020 18:07:54
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1059

First Level Reviewer: RudzG Date: 23-Jul-2020 17:51:04

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.246	2.244	0.002	5773696	0.5000	0.5000	
2	2.468	2.464	0.004	6004545	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	3.318	3.317	0.001	46483	0.002500	0.002622	
2	3.293	3.293	0.001	49198	0.002500	0.002659	
						RPD = 1.40	
9 PCB-1016							
1	3.598	3.598	0.000	33009	0.1000	0.1111	
1	4.343	4.343	0.001	92124	0.1000	0.1037	
1	4.432	4.431	0.001	56214	0.1000	0.1087	
1	4.502	4.502	0.000	38343	0.1000	0.1093	
1	4.928	4.925	0.003	44691	0.1000	0.1091	
		Average of Peak Amounts =				0.1084	
2	4.493	4.492	0.001	81927	0.1000	0.1073	
2	4.621	4.620	0.001	56735	0.1000	0.1110	
2	4.731	4.729	0.002	33943	0.1000	0.1085	
2	5.031	5.030	0.001	47116	0.1000	0.1076	
2	5.149	5.148	0.001	24700	0.1000	0.1084	
		Average of Peak Amounts =				0.1085	
						RPD = 0.16	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	5.922	5.921	0.001	78506	0.1000	0.1054	
1	6.136	6.134	0.002	86386	0.1000	0.1049	
1	6.445	6.443	0.002	103583	0.1000	0.1053	M
1	6.908	6.906	0.002	68361	0.1000	0.1068	
1	7.226	7.223	0.004	162090	0.1000	0.1027	
		Average of Peak Amounts =				0.1050	
2	6.120	6.119	0.001	72575	0.1000	0.1109	
2	6.236	6.236	0.000	87059	0.1000	0.1093	
2	6.707	6.706	0.001	84328	0.1000	0.1094	
2	7.435	7.433	0.002	173260	0.1000	0.1039	
2	8.134	8.132	0.002	128202	0.1000	0.1176	
		Average of Peak Amounts =				0.1102	
						RPD = 4.81	
$ 15 DCB Decachlorobiphenyl							M
1	10.155	10.149	0.006	38744	0.002500	0.002826	M
2	10.818	10.817	0.001	42438	0.002500	0.002881	
						RPD = 1.91	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.1_00018 Amount Added: 1.00 Units: mL

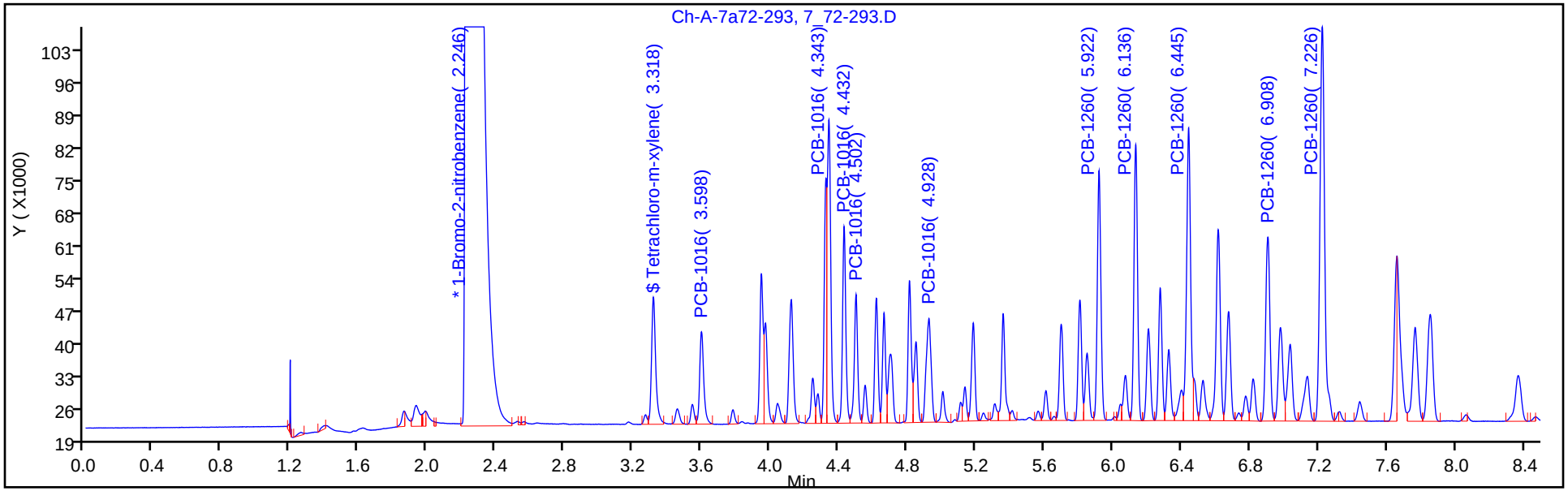
Report Date: 24-Jul-2020 08:59:49 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Buffalo

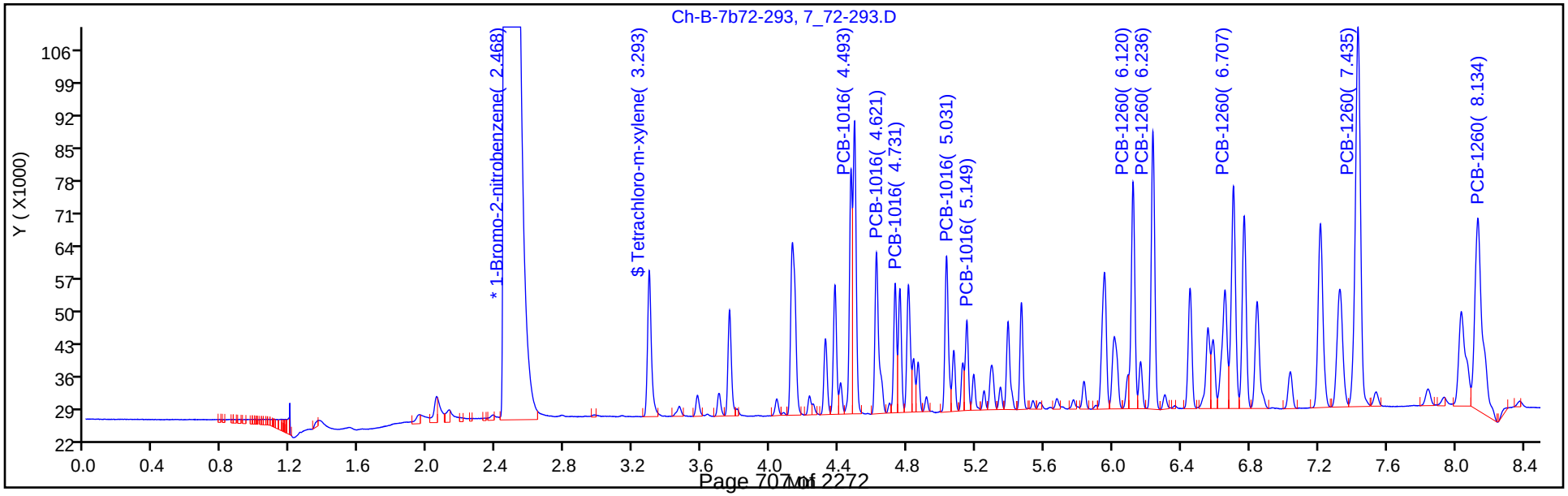
Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-293.D

Injection Date:	23-Jul-2020 17:36:10	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC level 3			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Report Date: 24-Jul-2020 08:59:49 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-293.D

Injection Date: 23-Jul-2020 17:36:10 Instrument ID: HP6890-7

Lims ID: IC level 3

Client ID:

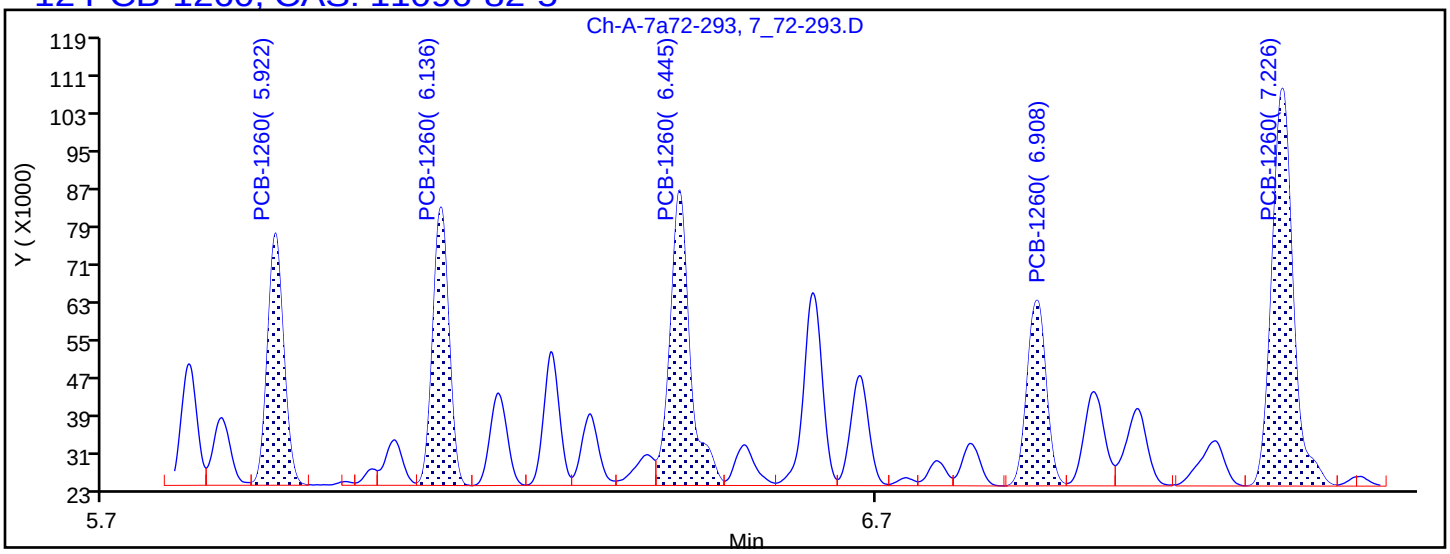
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 9

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

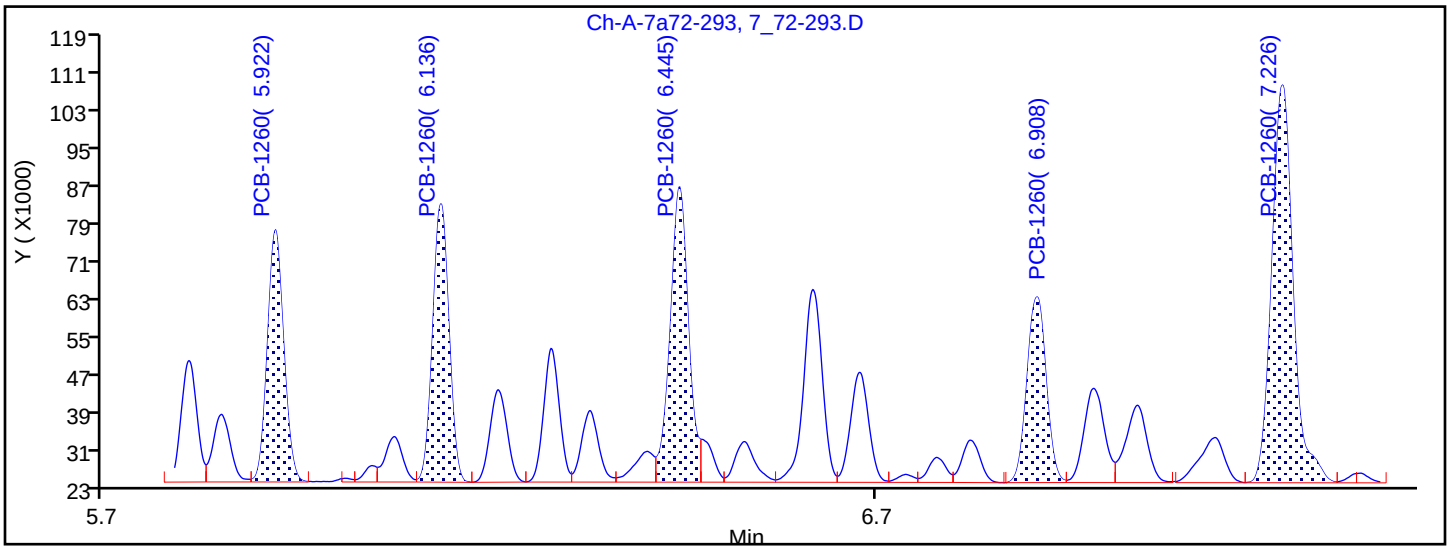
Column: ZB-5 (0.53 mm) Detector Ch-A-7A136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

5.922	Response = 78506
6.136	Response = 86386
6.445	Response = 113514
6.908	Response = 68361
7.226	Response = 162090



Manual Integration Results

5.922	Response = 78506	
6.136	Response = 86386	
6.445	Response = 103583	M
6.908	Response = 68361	
7.226	Response = 162090	

Reviewer: clarkda, 23-Jul-2020 19:02:42

Audit Action: Split an Integrated Peak Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

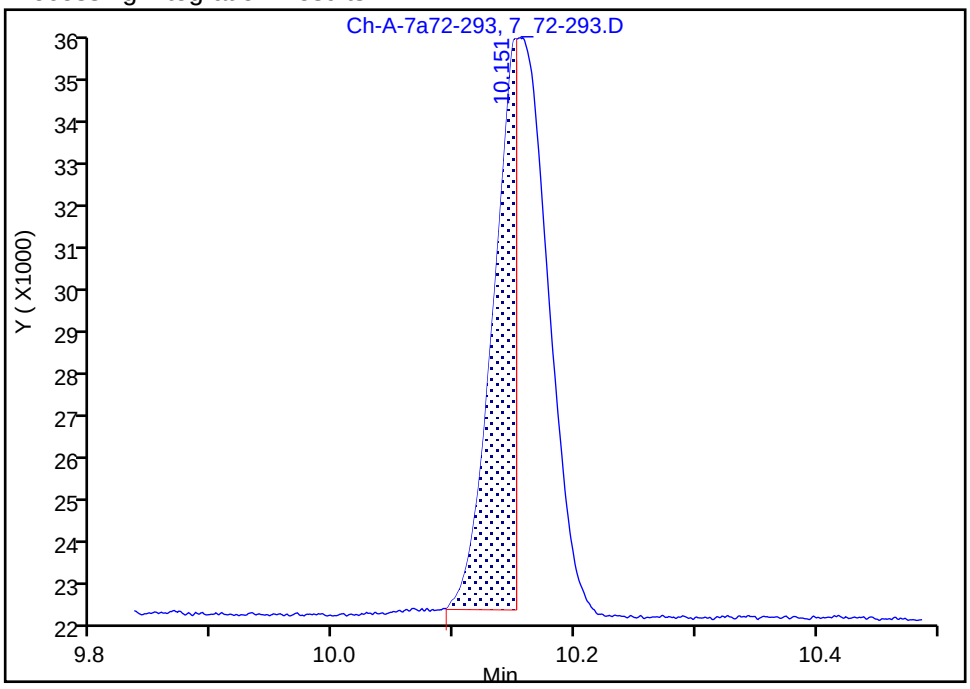
Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-293.D
Injection Date: 23-Jul-2020 17:36:10 Instrument ID: HP6890-7
Lims ID: IC level 3
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: ZB-5 (0.53 mm) Detector Ch-A-7A136

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

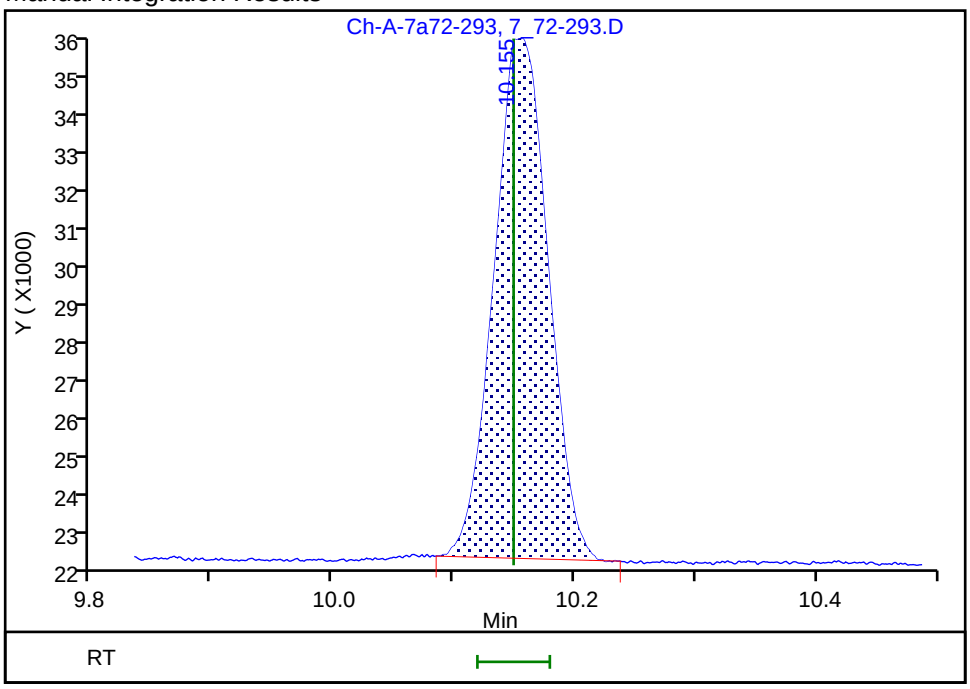
Processing Integration Results

RT: 10.15
Area: 16234
Amount: 0.001914
Amount Units: ng/uL



Manual Integration Results

RT: 10.16
Area: 38744
Amount: 0.002826
Amount Units: ng/uL



Reviewer: RudzG, 23-Jul-2020 17:50:58
Audit Action: Manually Integrated Audit Reason: Peak not integrated

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-294.D
Lims ID: IC level 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 23-Jul-2020 17:52:01 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Jul-2020 08:59:50 Calib Date: 23-Jul-2020 18:07:54
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1059

First Level Reviewer: clarkda Date: 23-Jul-2020 18:56:47

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.244	2.244	0.000	5922924	0.5000	0.5000	
2	2.466	2.464	0.002	6144208	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	3.317	3.317	0.000	24147	0.001250	0.001295	
2	3.293	3.293	0.000	25738	0.001250	0.001299	
						RPD = 0.28	
9 PCB-1016							
1	3.598	3.598	0.000	17691	0.0500	0.0543	
1	4.343	4.343	0.001	47575	0.0500	0.0510	
1	4.432	4.431	0.001	29651	0.0500	0.0523	
1	4.502	4.502	0.000	20544	0.0500	0.0531	
1	4.928	4.925	0.003	24024	0.0500	0.0532	
		Average of Peak Amounts =				0.0528	
2	4.493	4.492	0.001	42868	0.0500	0.0520	
2	4.621	4.620	0.001	30566	0.0500	0.0534	
2	4.731	4.729	0.002	17473	0.0500	0.0546	
2	5.031	5.030	0.001	25372	0.0500	0.0566	
2	5.149	5.148	0.001	13479	0.0500	0.0578	
		Average of Peak Amounts =				0.0549	
						RPD = 3.89	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	5.921	5.921	0.000	42841	0.0500	0.0529	M
1	6.135	6.134	0.001	47112	0.0500	0.0529	M
1	6.443	6.443	0.000	56087	0.0500	0.0533	M
1	6.906	6.906	0.000	37931	0.0500	0.0540	M
1	7.223	7.223	0.001	89448	0.0500	0.0533	M
		Average of Peak Amounts =				0.0533	
2	6.121	6.119	0.002	39246	0.0500	0.0536	
2	6.238	6.236	0.002	47062	0.0500	0.0535	
2	6.708	6.706	0.002	44606	0.0500	0.0527	
2	7.436	7.433	0.003	92609	0.0500	0.0522	
2	8.135	8.132	0.003	64006	0.0500	0.0515	
		Average of Peak Amounts =				0.0527	
						RPD = 1.12	
$ 15 DCB Decachlorobiphenyl							M
1	10.155	10.149	0.006	20952	0.001250	0.001352	M
2	10.823	10.817	0.005	22695	0.001250	0.001347	
						RPD = 0.36	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.05_00017 Amount Added: 1.00 Units: mL

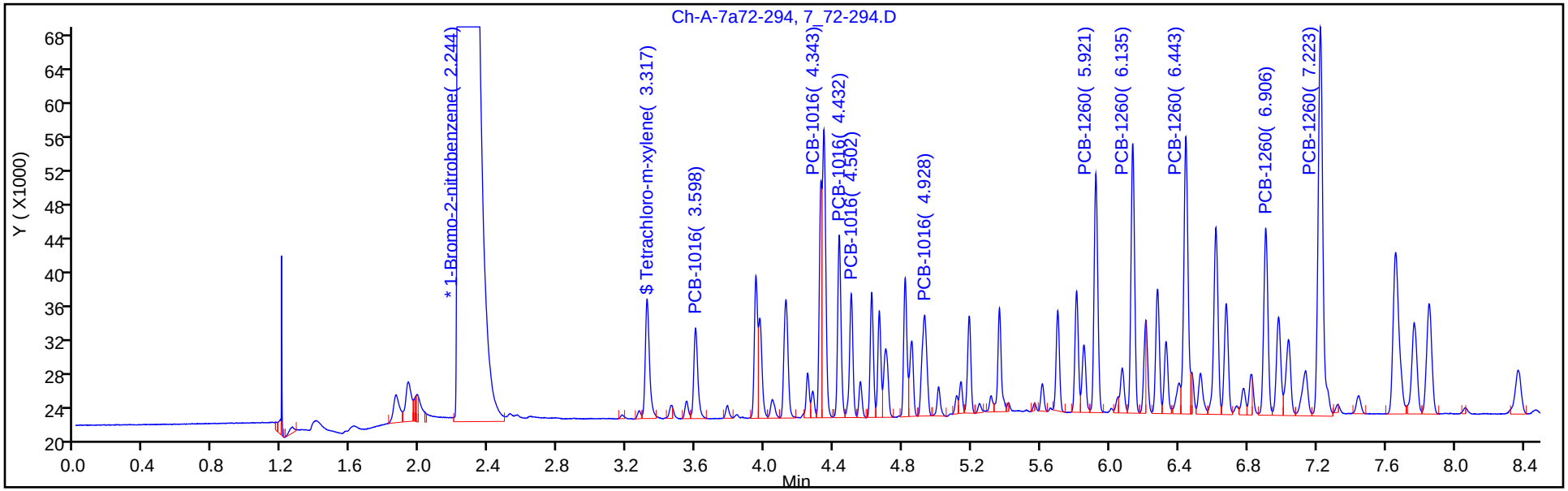
Report Date: 24-Jul-2020 08:59:50 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Buffalo

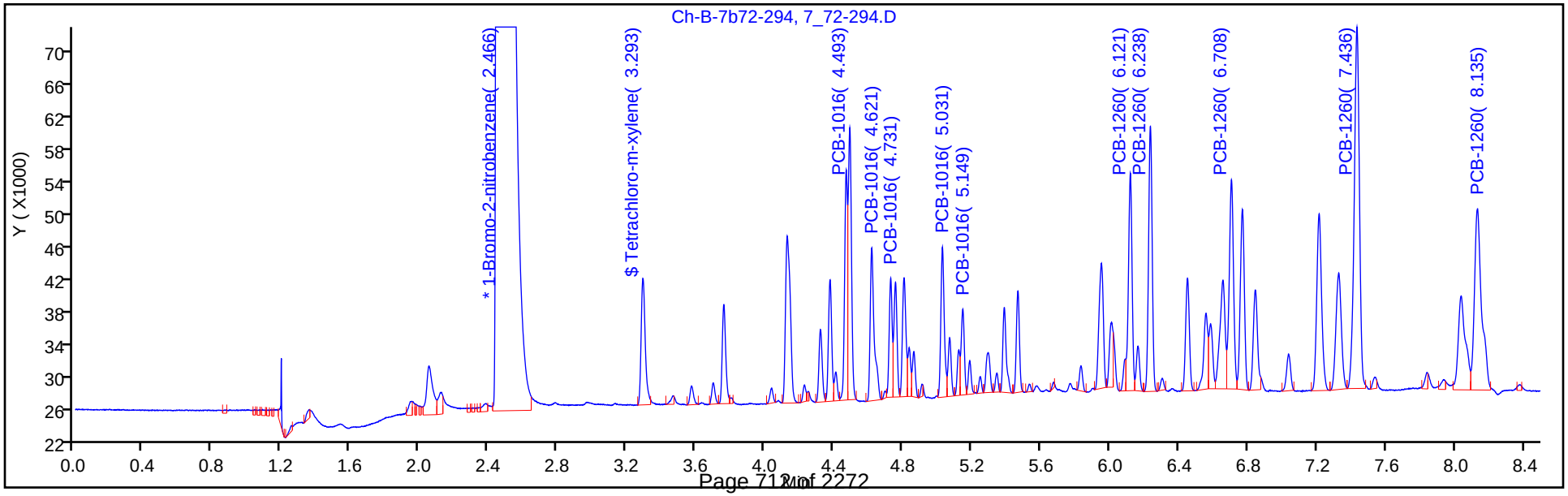
Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-294.D

Injection Date:	23-Jul-2020 17:52:01	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC level 2			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Report Date: 24-Jul-2020 08:59:50 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-294.D

Injection Date: 23-Jul-2020 17:52:01 Instrument ID: HP6890-7

Lims ID: IC level 2

Client ID:

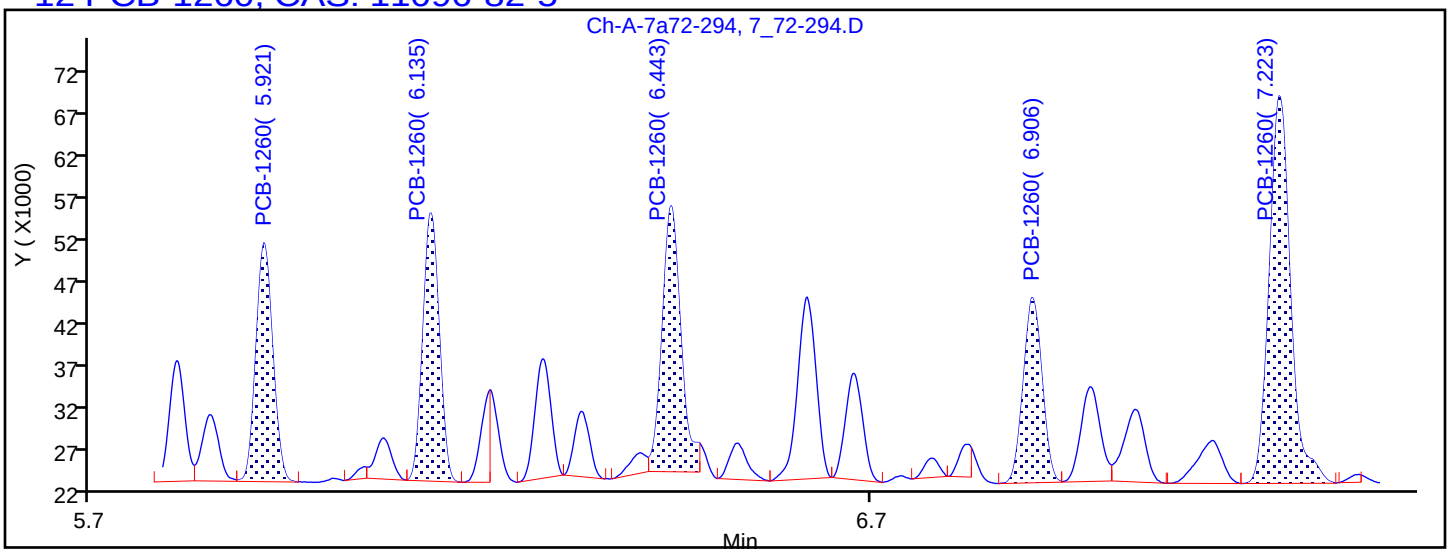
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 10

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

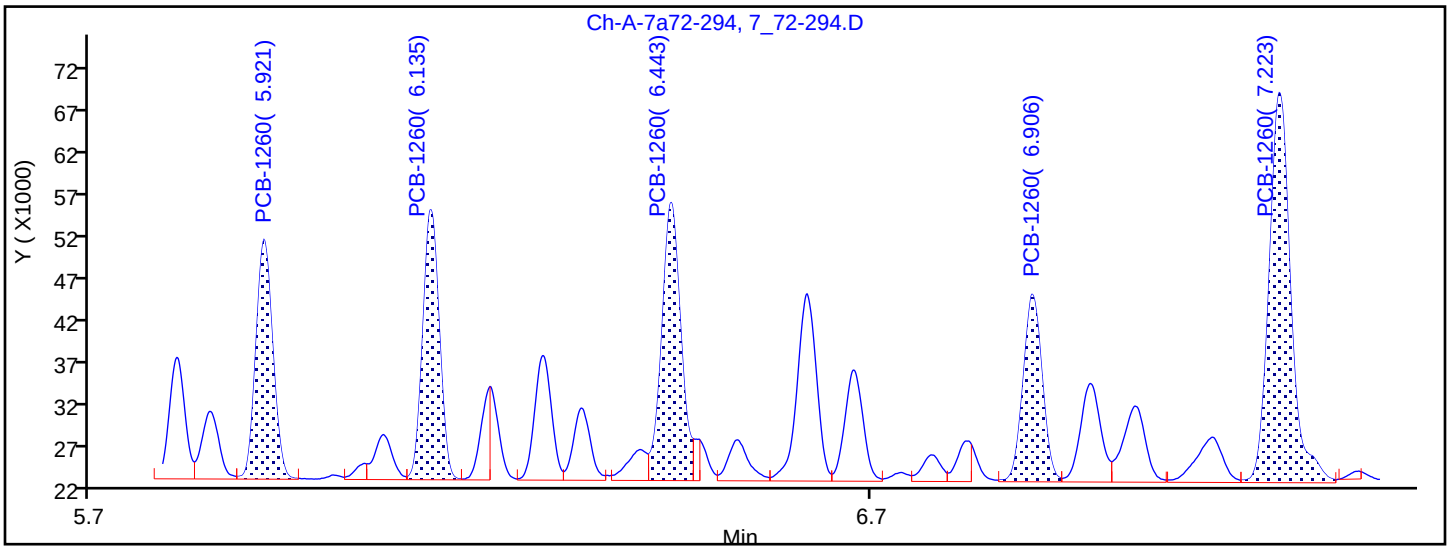
Column: ZB-5 (0.53 mm) Detector Ch-A-7A136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

5.921	Response = 42406
6.135	Response = 46219
6.443	Response = 52883
6.906	Response = 36641
7.223	Response = 87185



Manual Integration Results

5.921	Response = 42841	M
6.135	Response = 47112	M
6.443	Response = 56087	M
6.906	Response = 37931	M
7.223	Response = 89448	M

Reviewer: clarkda, 23-Jul-2020 19:02:59

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

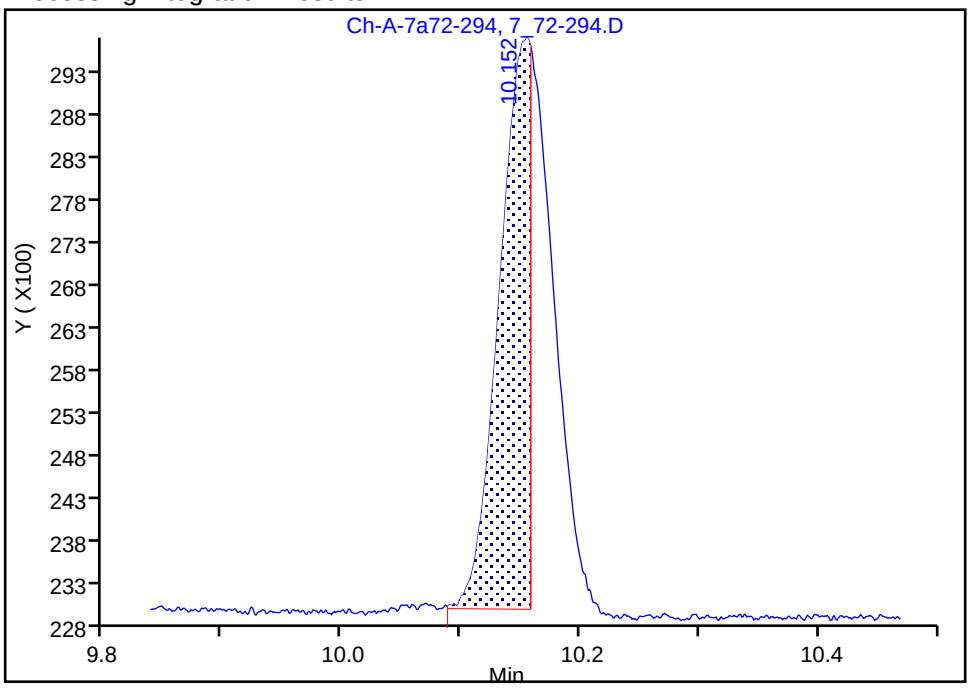
Data File:	\\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-294.D				
Injection Date:	23-Jul-2020 17:52:01	Instrument ID:	HP6890-7		
Lims ID:	IC level 2				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:	ZB-5 (0.53 mm)	Detector	Ch-A-7A136		

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

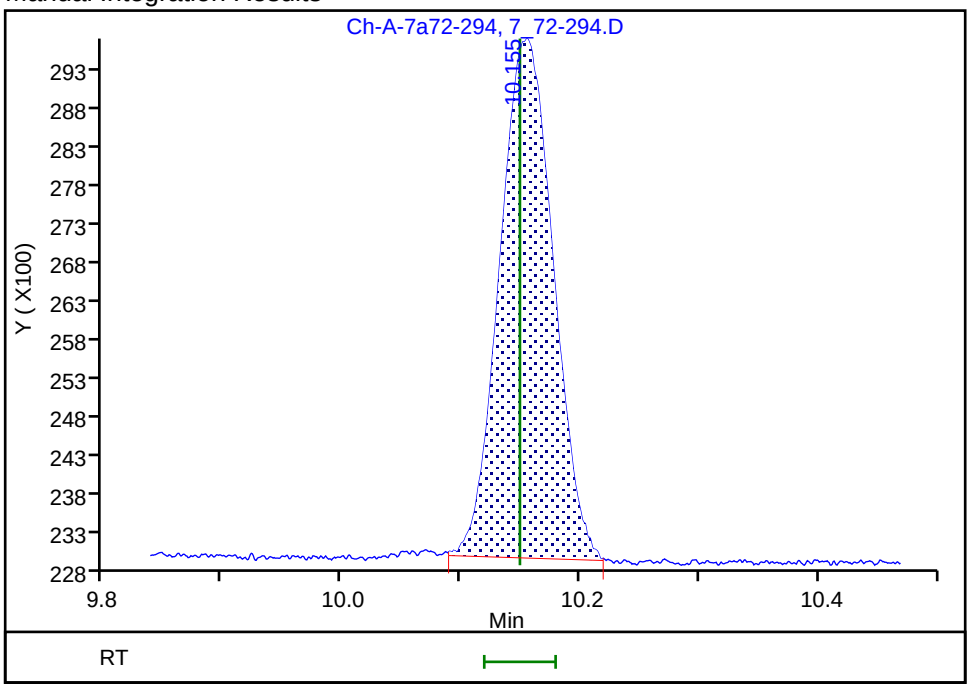
Processing Integration Results

RT: 10.15
Area: 11706
Amount: 0.000777
Amount Units: ng/uL



Manual Integration Results

RT: 10.16
Area: 20952
Amount: 0.001352
Amount Units: ng/uL



Reviewer: clarkda, 23-Jul-2020 18:56:45

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D
Lims ID: IC level 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Jul-2020 18:07:54 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Jul-2020 08:59:51 Calib Date: 23-Jul-2020 18:07:54
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1059

First Level Reviewer: clarkda Date: 23-Jul-2020 18:57:20

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.244	2.244	0.000	6036089	0.5000	0.5000	
2	2.466	2.466	0.000	6269298	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	3.318	3.318	0.000	10030	0.000500	0.000488	
2	3.293	3.293	0.000	10951	0.000500	0.000469	M
						RPD = 4.09	
9 PCB-1016							M
1	3.599	3.599	0.000	7106	0.0200	0.0166	
1	4.345	4.345	0.000	20660	0.0200	0.0203	
1	4.433	4.433	0.000	12938	0.0200	0.0182	
1	4.503	4.503	0.000	8794	0.0200	0.0175	
1	4.928	4.928	0.000	10321	0.0200	0.0176	
		Average of Peak Amounts =				0.0180	
2	4.493	4.493	0.000	18609	0.0200	0.0188	
2	4.621	4.621	0.000	13280	0.0200	0.0166	M
2	4.731	4.731	0.000	7487	0.0200	0.0229	
2	5.032	5.032	0.000	10405	0.0200	0.0228	
2	5.149	5.149	0.000	5271	0.0200	0.0222	
		Average of Peak Amounts =				0.0206	
						RPD = 13.38	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	5.923	5.923	0.000	19039	0.0200	0.0193	
1	6.137	6.137	0.000	20800	0.0200	0.0195	
1	6.444	6.444	0.000	23601	0.0200	0.0192	
1	6.908	6.908	0.000	16462	0.0200	0.0183	
1	7.225	7.225	0.000	38335	0.0200	0.0199	
		Average of Peak Amounts =				0.0192	
2	6.121	6.121	0.000	17503	0.0200	0.0174	
2	6.238	6.238	0.000	20885	0.0200	0.0182	
2	6.708	6.708	0.000	19736	0.0200	0.0183	
2	7.437	7.437	0.000	39944	0.0200	0.0195	
2	8.133	8.133	0.000	28531	0.0200	0.0160	M
		Average of Peak Amounts =				0.0179	
						RPD = 7.10	
$ 15 DCB Decachlorobiphenyl							M
1	10.158	10.158	0.000	8979	0.000500	0.000399	
2	10.819	10.819	0.000	9922	0.000500	0.000387	M
						RPD = 3.01	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.02_00019 Amount Added: 1.00 Units: mL

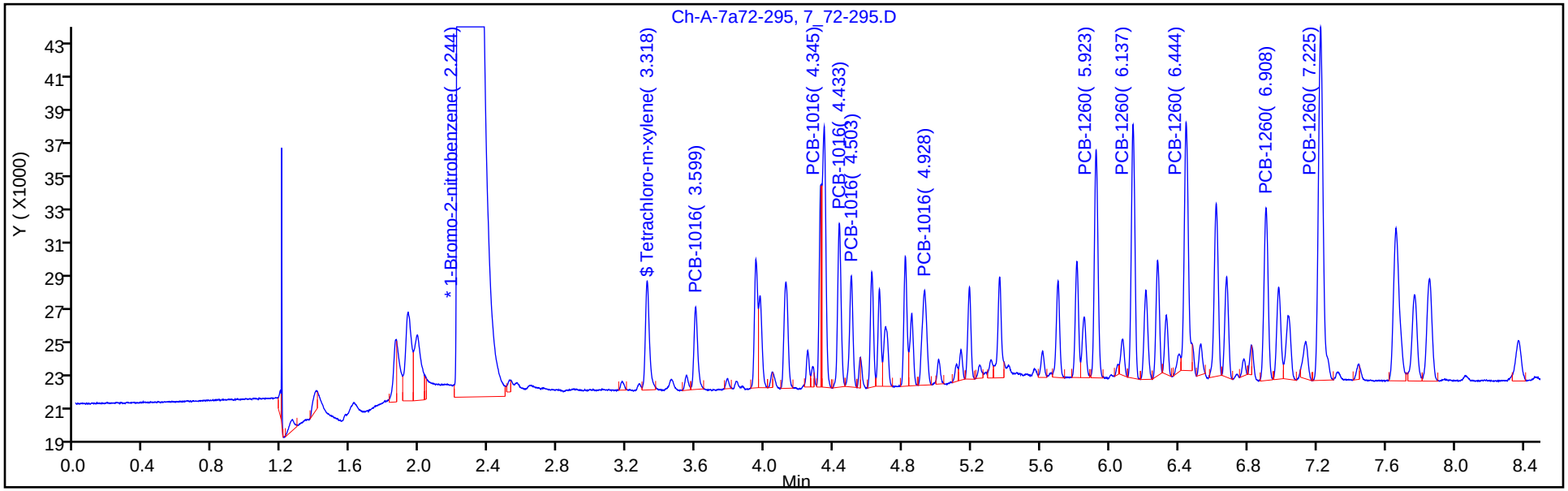
Report Date: 24-Jul-2020 08:59:52 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Buffalo

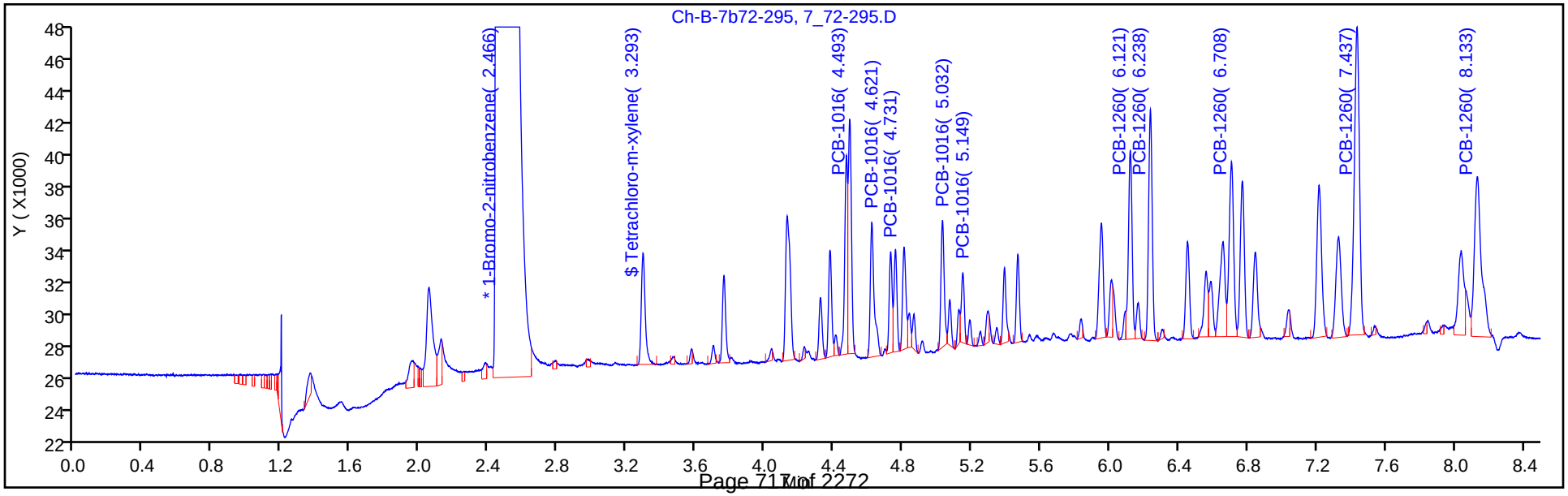
Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D

Injection Date:	23-Jul-2020 18:07:54	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC level 1			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 541875

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2020 16:32 Calibration End Date: 07/23/2020 18:07 Calibration ID: 40051

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-541875/11	7_72-295.D
Level 2	IC 480-541875/10	7_72-294.D
Level 3	IC 480-541875/9	7_72-293.D
Level 4	IC 480-541875/8	7_72-292.D
Level 5	ICIS 480-541875/7	7_72-291.D
Level 6	IC 480-541875/6	7_72-290.D
Level 7	IC 480-541875/5	7_72-289.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0742 0.0630	0.0698 0.0598	0.0682	0.0591	0.0593	Lin1	0.0004	0.0603				5.6			0.9990		0.9900
PCB-1016 Peak 2	0.0530 0.0398	0.0497 0.0385	0.0472	0.0403	0.0400	Lin1	0.0004	0.0388				9.6			0.9990		0.9900
PCB-1016 Peak 3	0.0299 0.0242	0.0284 0.0236	0.0283	0.0238	0.0241	Ave		0.0261				10.3		20.0			
PCB-1016 Peak 4	0.0415 0.0319	0.0413 +++++	0.0392	0.0326	0.0323	Ave		0.0365				12.8		20.0			
PCB-1016 Peak 5	0.0210 0.0164	0.0219 +++++	0.0206	0.0170	0.0169	Ave		0.0190				13.0		20.0			
PCB-1260 Peak 1	0.0698 0.0512	0.0639 0.0498	0.0604	0.0506	0.0493	Lin1	0.0005	0.0497				8.5			0.9990		0.9900
PCB-1260 Peak 2	0.0833 0.0626	0.0766 0.0618	0.0725	0.0612	0.0600	Lin1	0.0006	0.0613				7.2			0.9990		0.9900
PCB-1260 Peak 3	0.0787 0.0606	0.0726 0.0602	0.0702	0.0593	0.0594	Lin1	0.0005	0.0598				6.6			0.9990		0.9900
PCB-1260 Peak 4	0.1593 0.1349	0.1507 0.1338	0.1443	0.1286	0.1325	Lin1	0.0006	0.1332				3.9			1.0000		0.9900
PCB-1260 Peak 5	0.1138 0.0837	0.1042 0.0826	0.1068	0.0885	0.0834	Lin1	0.0010	0.0826				12.1			0.9990		0.9900
Tetrachloro-m-xylene	1.7468 1.4883	1.6756 1.4734	1.6387	1.4518	1.4759	Lin1	0.0002	1.4715				4.7			1.0000		0.9900
DCB Decachlorobiphenyl	1.5826 1.0913	1.4775 +++++	1.4135	1.1807	1.1404	Lin1	0.0004	1.0999				14.2			0.9970		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1 Analy Batch No.: 541875

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2020 16:32 Calibration End Date: 07/23/2020 18:07 Calibration ID: 40051

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-541875/11	7_72-295.D
Level 2	IC 480-541875/10	7_72-294.D
Level 3	IC 480-541875/9	7_72-293.D
Level 4	IC 480-541875/8	7_72-292.D
Level 5	ICIS 480-541875/7	7_72-291.D
Level 6	IC 480-541875/6	7_72-290.D
Level 7	IC 480-541875/5	7_72-289.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Lin1	18609 734036	42868 1409746	81927	155779	355056	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 2	BNB	Lin1	13280 464131	30566 907867	56735	106039	239710	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 3	BNB	Ave	7487 282670	17473 556874	33943	62793	144352	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 4	BNB	Ave	10405 372010	25372 +++++	47116	85885	193332	0.0200 1.00	0.0500 +++++	0.100	0.200	0.500
PCB-1016 Peak 5	BNB	Ave	5271 191052	13479 +++++	24700	44825	101415	0.0200 1.00	0.0500 +++++	0.100	0.200	0.500
PCB-1260 Peak 1	BNB	Lin1	17503 596821	39246 1173812	72575	133200	295314	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 2	BNB	Lin1	20885 729536	47062 1455963	87059	161116	359299	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 3	BNB	Lin1	19736 706024	44606 1419387	84328	156219	355934	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 4	BNB	Lin1	39944 1572436	92609 3153699	173260	338705	793809	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 5	BNB	Lin1	28531 975804	64006 1946489	128202	233179	499500	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
Tetrachloro-m-xylene	BNB	Lin1	10951 433749	25738 868039	49198	95610	221106	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125
DCB Decachlorobiphenyl	BNB	Lin1	9922 318028	22695 +++++	42438	77756	170838	0.000500 0.0250	0.00125 +++++	0.00250	0.00500	0.0125

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-289.D
Lims ID: IC level 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 23-Jul-2020 16:32:43 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Jul-2020 08:59:43 Calib Date: 23-Jul-2020 18:07:54
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1059

First Level Reviewer: clarkda Date: 23-Jul-2020 17:21:57

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.244	2.244	0.000	5675433	0.5000	0.5000	
2	2.465	2.465	0.000	5891353	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	3.317	3.317	0.000	852079	0.0500	0.0501	
2	3.293	3.293	0.000	868039	0.0500	0.0499	
						RPD = 0.27	
9 PCB-1016							
1	3.598	3.598	0.000	514738	2.00	1.88	
1	4.342	4.342	0.000	1670179	2.00	1.96	
1	4.431	4.431	0.000	952914	2.00	1.99	
1	4.501	4.501	0.000	639082	2.00	1.99	
1	4.924	4.924	0.000	748712	2.00	1.99	
		Average of Peak Amounts =				1.96	
2	4.493	4.493	0.000	1409746	2.00	1.98	
2	4.620	4.620	0.000	907867	2.00	1.97	
2	4.729	4.729	0.000	556874	2.00	1.81	
2	5.030	5.030	0.000	734418	2.00	1.71	
2	5.148	5.148	0.000	378987	2.00	1.70	
		Average of Peak Amounts =				1.83	
						RPD = 6.72	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							
1	5.920	5.920	0.000	1389104	2.00	2.01	
1	6.133	6.133	0.000	1542239	2.00	2.01	
1	6.444	6.444	0.000	1868328	2.00	2.02	
1	6.905	6.905	0.000	1175716	2.00	2.01	
1	7.222	7.222	0.000	2993624	2.00	2.01	
		Average of Peak Amounts =				2.01	
2	6.120	6.120	0.000	1173812	2.00	1.99	
2	6.236	6.236	0.000	1455963	2.00	2.01	
2	6.706	6.706	0.000	1419387	2.00	2.01	
2	7.433	7.433	0.000	3153699	2.00	2.00	
2	8.132	8.132	0.000	1946489	2.00	1.99	
		Average of Peak Amounts =				2.00	
						RPD = 0.54	
$ 15 DCB Decachlorobiphenyl							
1	10.151	10.151	0.000	585946	0.0500	0.0477	
2	10.817	10.817	0.000	607877	0.0500	0.0466	
						RPD = 2.36	

Reagents:

1660sur/is2.0_00019 Amount Added: 1.00 Units: mL

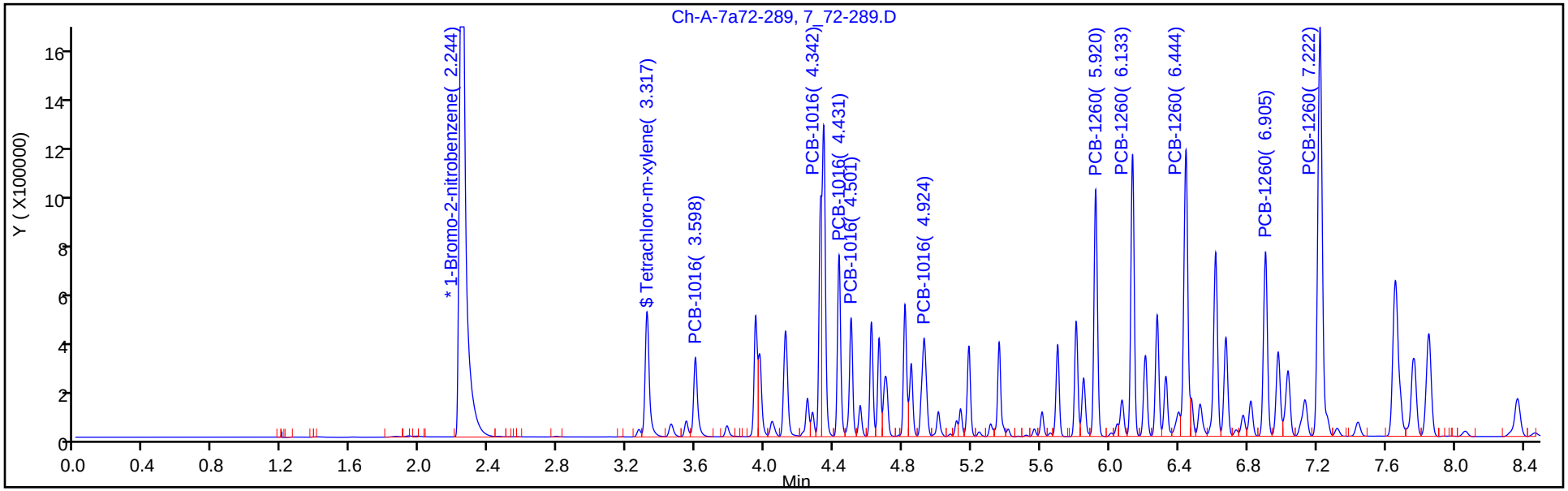
Report Date: 24-Jul-2020 08:59:43 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Buffalo

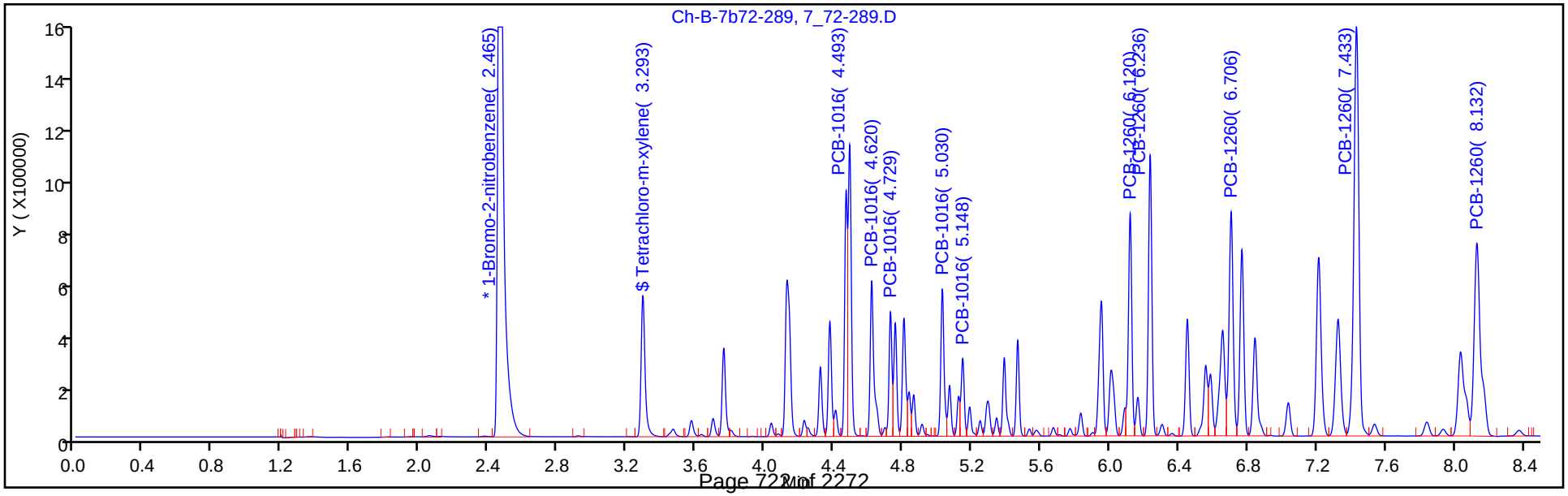
Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-289.D

Injection Date:	23-Jul-2020 16:32:43	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC level 7			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-290.D
Lims ID: IC level 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 23-Jul-2020 16:48:35 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Jul-2020 08:59:44 Calib Date: 23-Jul-2020 18:07:54
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1059

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.242	2.244	-0.002	5611784	0.5000	0.5000	
2	2.464	2.465	-0.001	5828678	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	3.314	3.317	-0.003	424907	0.0250	0.0252	
2	3.292	3.293	0.000	433749	0.0250	0.0252	
						RPD = 0.24	
9 PCB-1016							
1	3.595	3.598	-0.003	269076	1.00	0.99	
1	4.341	4.342	-0.001	900107	1.00	1.06	
1	4.430	4.431	-0.001	479663	1.00	1.01	
1	4.498	4.501	-0.003	324685	1.00	1.02	
1	4.923	4.924	-0.001	376414	1.00	1.01	
		Average of Peak Amounts =				1.02	
2	4.492	4.493	0.000	734036	1.00	1.04	
2	4.619	4.620	-0.001	464131	1.00	1.01	
2	4.729	4.729	0.000	282670	1.00	0.9308	
2	5.028	5.030	-0.002	372010	1.00	0.8751	
2	5.148	5.148	0.000	191052	1.00	0.8637	
		Average of Peak Amounts =				0.9445	
						RPD = 7.52	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							
1	5.918	5.920	-0.002	688407	1.00	1.00	
1	6.132	6.133	-0.001	767341	1.00	1.01	
1	6.441	6.444	-0.003	920161	1.00	1.00	
1	6.903	6.905	-0.002	584236	1.00	1.00	
1	7.221	7.222	-0.001	1497892	1.00	1.01	
		Average of Peak Amounts =				1.01	
2	6.119	6.120	-0.001	596821	1.00	1.02	
2	6.235	6.236	-0.001	729536	1.00	1.01	
2	6.705	6.706	-0.001	706024	1.00	1.00	
2	7.433	7.433	0.001	1572436	1.00	1.01	
2	8.131	8.132	-0.001	975804	1.00	1.00	
		Average of Peak Amounts =				1.01	
						RPD = 0.23	
$ 15 DCB Decachlorobiphenyl							
1	10.147	10.151	-0.004	301782	0.0250	0.0247	
2	10.813	10.817	-0.004	318028	0.0250	0.0245	
						RPD = 0.93	

Reagents:

1660sur/is1.0_00018 Amount Added: 1.00 Units: mL

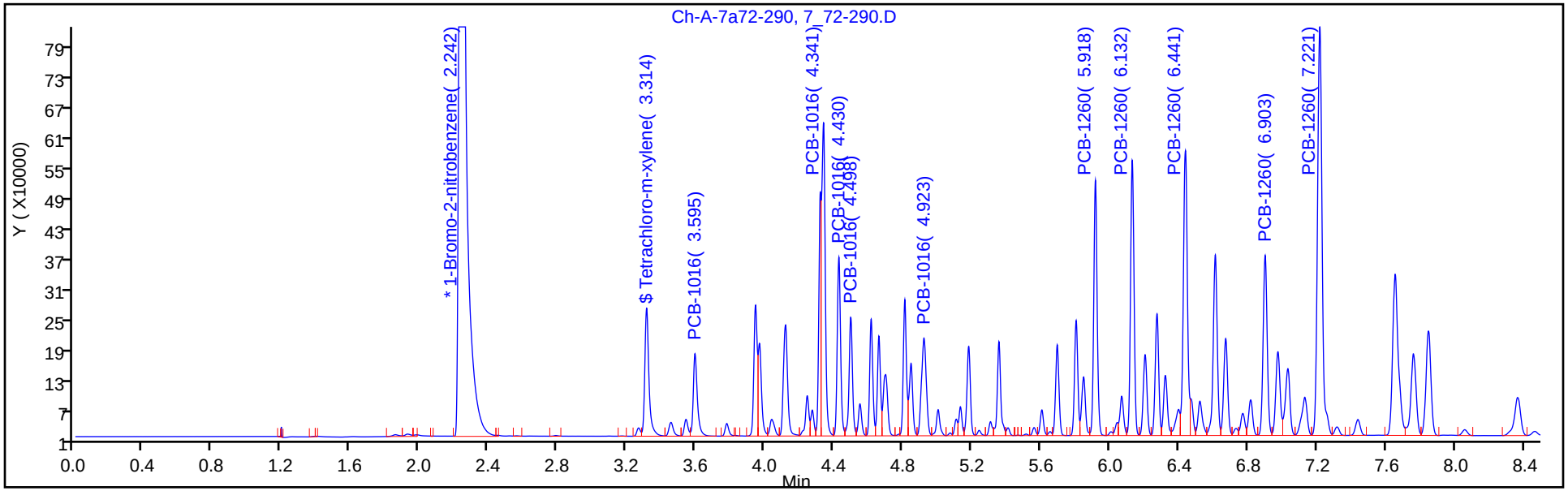
Report Date: 24-Jul-2020 08:59:45 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Buffalo

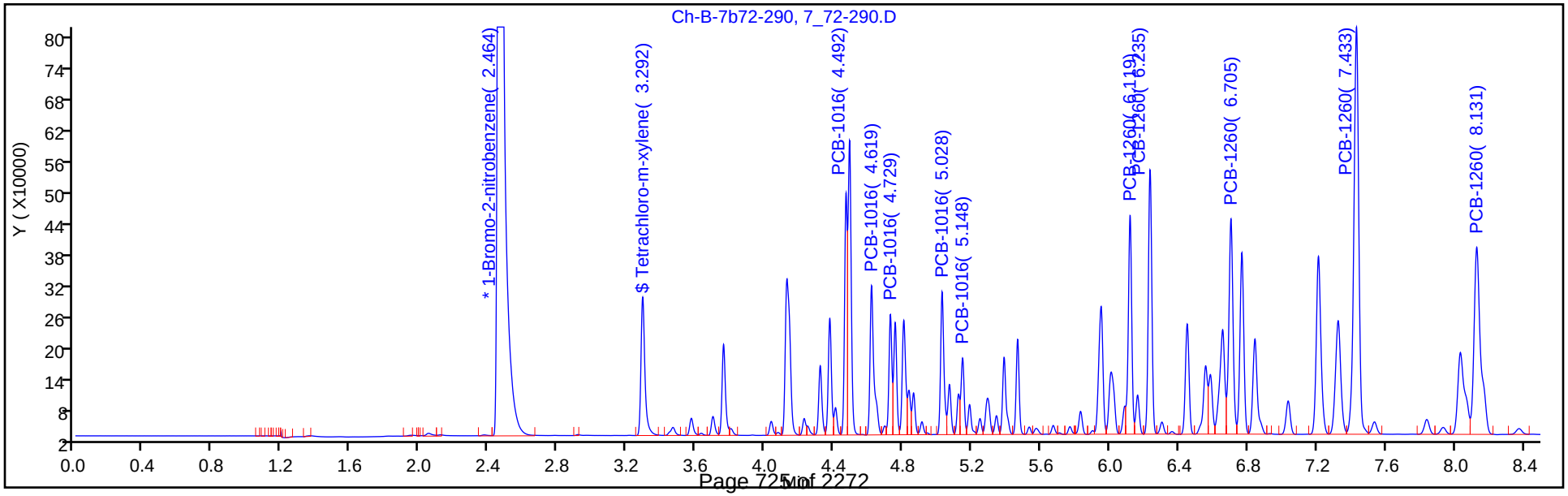
Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-290.D

Injection Date:	23-Jul-2020 16:48:35	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC level 6			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-291.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 23-Jul-2020 17:04:29 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Jul-2020 08:59:46 Calib Date: 23-Jul-2020 18:07:54
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1059

First Level Reviewer: clarkda Date: 23-Jul-2020 18:59:05

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.244	2.244	0.000	5753524	0.5000	0.5000	
2	2.464	2.464	0.000	5992334	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	3.317	3.317	0.000	213707	0.0125	0.0123	
2	3.293	3.293	0.000	221106	0.0125	0.0124	
						RPD = 0.60	
9 PCB-1016							
1	3.598	3.598	0.000	140886	0.5000	0.5018	
1	4.343	4.343	0.000	430106	0.5000	0.4950	
1	4.431	4.431	0.000	241682	0.5000	0.4933	
1	4.502	4.502	0.000	163652	0.5000	0.4952	
1	4.925	4.925	0.000	190930	0.5000	0.4950	
		Average of Peak Amounts =				0.4961	
2	4.492	4.492	0.000	355056	0.5000	0.4854	
2	4.620	4.620	0.000	239710	0.5000	0.5044	
2	4.729	4.729	0.000	144352	0.5000	0.4623	
2	5.030	5.030	0.000	193332	0.5000	0.4424	
2	5.148	5.148	0.000	101415	0.5000	0.4459	
		Average of Peak Amounts =				0.4681	
						RPD = 5.80	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							
1	5.921	5.921	0.000	345158	0.5000	0.4880	
1	6.134	6.134	0.000	382476	0.5000	0.4873	
1	6.443	6.443	0.000	459855	0.5000	0.4860	
1	6.906	6.906	0.000	296539	0.5000	0.4927	
1	7.223	7.223	0.000	744855	0.5000	0.4894	
		Average of Peak Amounts =				0.4887	
2	6.119	6.119	0.000	295314	0.5000	0.4847	
2	6.236	6.236	0.000	359299	0.5000	0.4800	
2	6.706	6.706	0.000	355934	0.5000	0.4886	
2	7.433	7.433	0.000	793809	0.5000	0.4928	
2	8.132	8.132	0.000	499500	0.5000	0.4929	
		Average of Peak Amounts =				0.4878	
						RPD = 0.18	
$ 15 DCB Decachlorobiphenyl							
1	10.149	10.149	0.000	157572	0.0125	0.0124	
2	10.817	10.817	0.000	170838	0.0125	0.0126	
						RPD = 1.54	

Reagents:

1660sur/is0.5_00104 Amount Added: 1.00 Units: mL

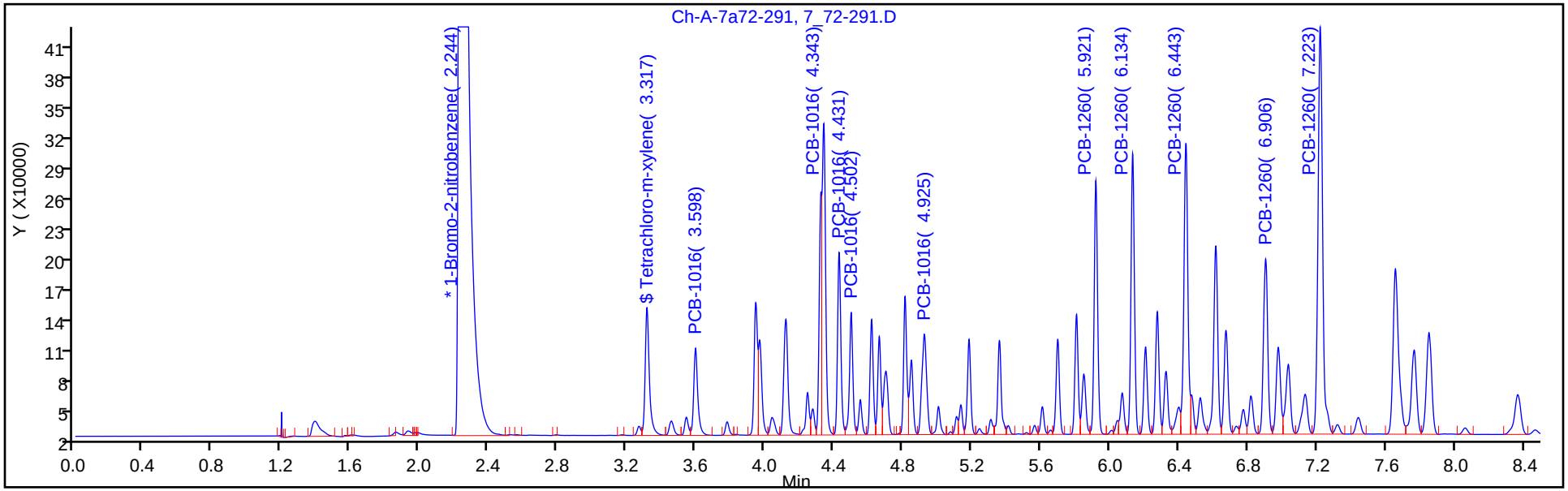
Report Date: 24-Jul-2020 08:59:46 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Buffalo

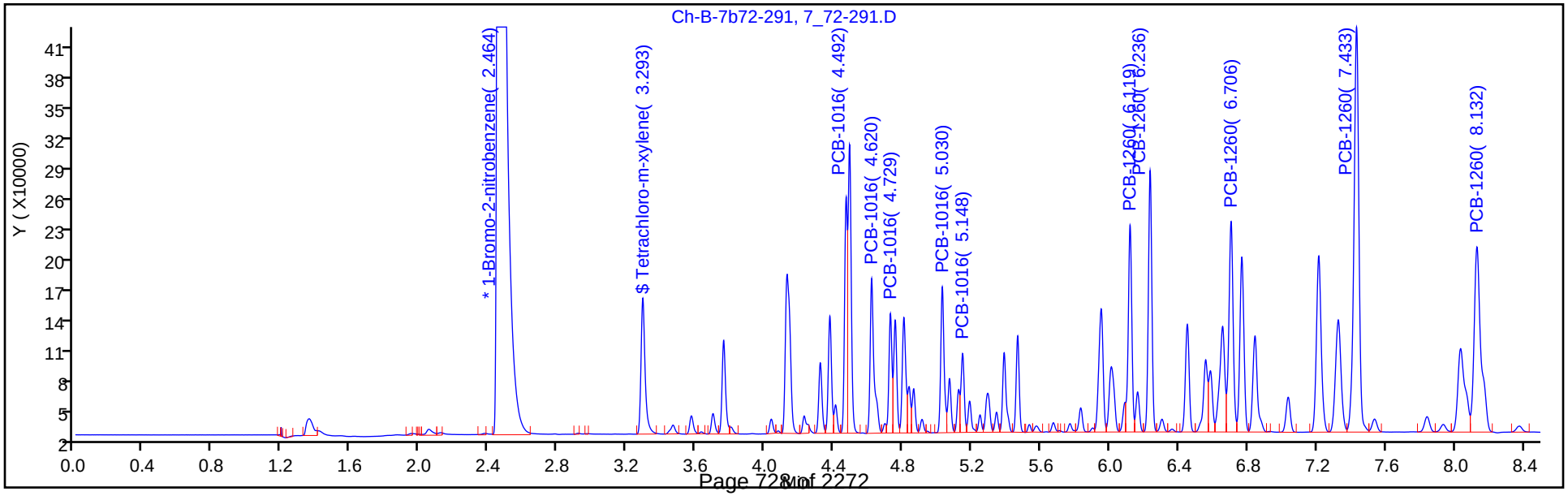
Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-291.D

Injection Date:	23-Jul-2020 17:04:29	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	ICIS			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-292.D
Lims ID: IC level 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 23-Jul-2020 17:20:20 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Jul-2020 08:59:47 Calib Date: 23-Jul-2020 18:07:54
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1059

First Level Reviewer: RudzG Date: 23-Jul-2020 17:50:32

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.247	2.244	0.003	6337162	0.5000	0.5000	
2	2.468	2.464	0.004	6585485	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	3.317	3.317	0.000	90534	0.005000	0.004705	
2	3.294	3.293	0.002	95610	0.005000	0.004808	
						RPD = 2.18	
9 PCB-1016							
1	3.598	3.598	0.000	62120	0.2000	0.1961	
1	4.342	4.343	0.000	172849	0.2000	0.1790	
1	4.431	4.431	0.000	106198	0.2000	0.1924	
1	4.500	4.502	-0.002	72349	0.2000	0.1938	
1	4.926	4.925	0.001	84403	0.2000	0.1937	
		Average of Peak Amounts =				0.1910	
2	4.493	4.492	0.001	155779	0.2000	0.1903	
2	4.621	4.620	0.001	106039	0.2000	0.1966	
2	4.730	4.729	0.001	62793	0.2000	0.1830	
2	5.031	5.030	0.001	85885	0.2000	0.1788	
2	5.149	5.148	0.001	44825	0.2000	0.1794	
		Average of Peak Amounts =				0.1856	
						RPD = 2.87	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							
1	5.921	5.921	0.000	149405	0.2000	0.1877	
1	6.135	6.134	0.001	164086	0.2000	0.1861	
1	6.443	6.443	-0.001	198594	0.2000	0.1876	
1	6.906	6.906	0.000	128911	0.2000	0.1895	
1	7.223	7.223	0.000	311882	0.2000	0.1834	
		Average of Peak Amounts =				0.1868	
2	6.122	6.119	0.003	133200	0.2000	0.1927	
2	6.238	6.236	0.002	161116	0.2000	0.1906	
2	6.708	6.706	0.002	156219	0.2000	0.1903	
2	7.436	7.433	0.003	338705	0.2000	0.1887	
2	8.137	8.132	0.005	233179	0.2000	0.2027	
		Average of Peak Amounts =				0.1930	
						RPD = 3.24	
$ 15 DCB Decachlorobiphenyl							
1	10.155	10.149	0.006	72681	0.005000	0.005038	
2	10.819	10.817	0.002	77756	0.005000	0.005035	
						RPD = 0.05	

Reagents:

1660sur/is0.2_00017 Amount Added: 1.00 Units: mL

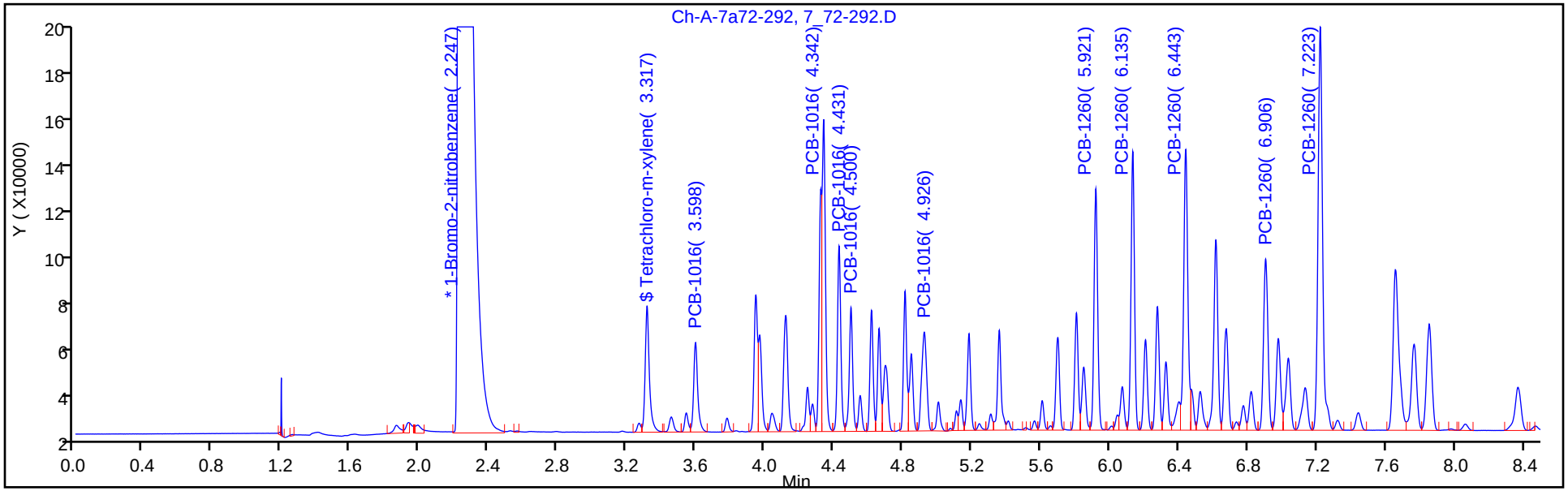
Report Date: 24-Jul-2020 08:59:47 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Buffalo

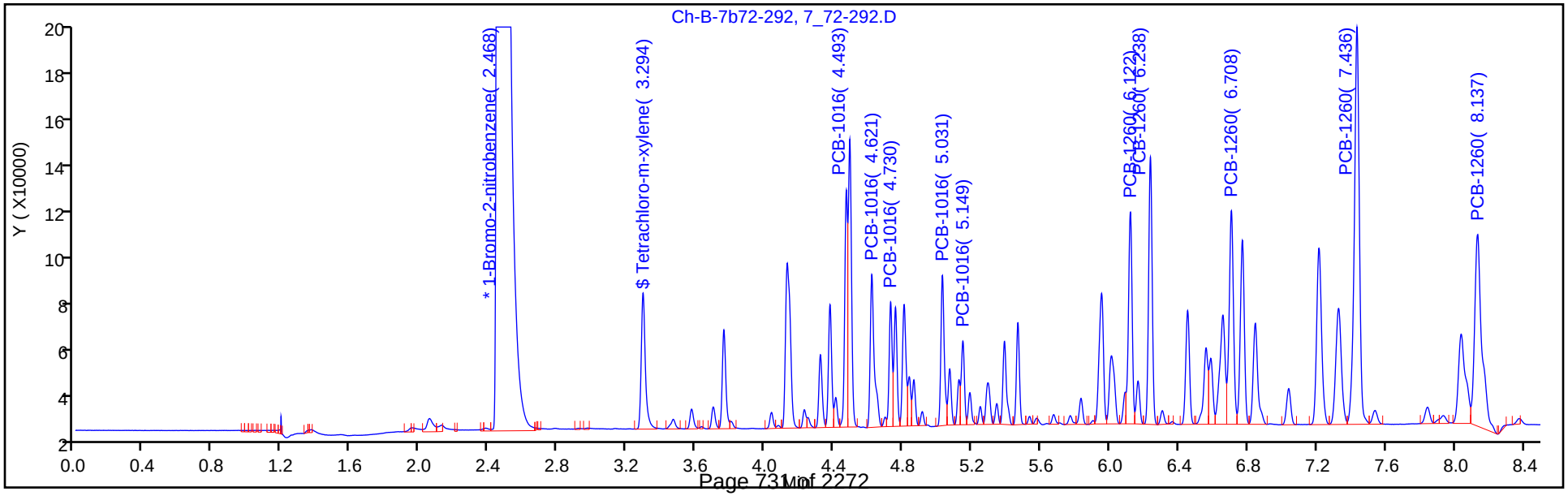
Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-292.D

Injection Date:	23-Jul-2020 17:20:20	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC level 4			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-293.D
Lims ID: IC level 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 23-Jul-2020 17:36:10 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Jul-2020 08:59:48 Calib Date: 23-Jul-2020 18:07:54
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1059

First Level Reviewer: RudzG Date: 23-Jul-2020 17:51:04

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.246	2.244	0.002	5773696	0.5000	0.5000	
2	2.468	2.464	0.004	6004545	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	3.318	3.317	0.001	46483	0.002500	0.002622	
2	3.293	3.293	0.001	49198	0.002500	0.002659	
						RPD = 1.40	
9 PCB-1016							
1	3.598	3.598	0.000	33009	0.1000	0.1111	
1	4.343	4.343	0.001	92124	0.1000	0.1037	
1	4.432	4.431	0.001	56214	0.1000	0.1087	
1	4.502	4.502	0.000	38343	0.1000	0.1093	
1	4.928	4.925	0.003	44691	0.1000	0.1091	
		Average of Peak Amounts =				0.1084	
2	4.493	4.492	0.001	81927	0.1000	0.1073	
2	4.621	4.620	0.001	56735	0.1000	0.1110	
2	4.731	4.729	0.002	33943	0.1000	0.1085	
2	5.031	5.030	0.001	47116	0.1000	0.1076	
2	5.149	5.148	0.001	24700	0.1000	0.1084	
		Average of Peak Amounts =				0.1085	
						RPD = 0.16	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	5.922	5.921	0.001	78506	0.1000	0.1054	
1	6.136	6.134	0.002	86386	0.1000	0.1049	
1	6.445	6.443	0.002	103583	0.1000	0.1053	M
1	6.908	6.906	0.002	68361	0.1000	0.1068	
1	7.226	7.223	0.004	162090	0.1000	0.1027	
		Average of Peak Amounts =				0.1050	
2	6.120	6.119	0.001	72575	0.1000	0.1109	
2	6.236	6.236	0.000	87059	0.1000	0.1093	
2	6.707	6.706	0.001	84328	0.1000	0.1094	
2	7.435	7.433	0.002	173260	0.1000	0.1039	
2	8.134	8.132	0.002	128202	0.1000	0.1176	
		Average of Peak Amounts =				0.1102	
						RPD = 4.81	
$ 15 DCB Decachlorobiphenyl							M
1	10.155	10.149	0.006	38744	0.002500	0.002826	M
2	10.818	10.817	0.001	42438	0.002500	0.002881	
						RPD = 1.91	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.1_00018 Amount Added: 1.00 Units: mL

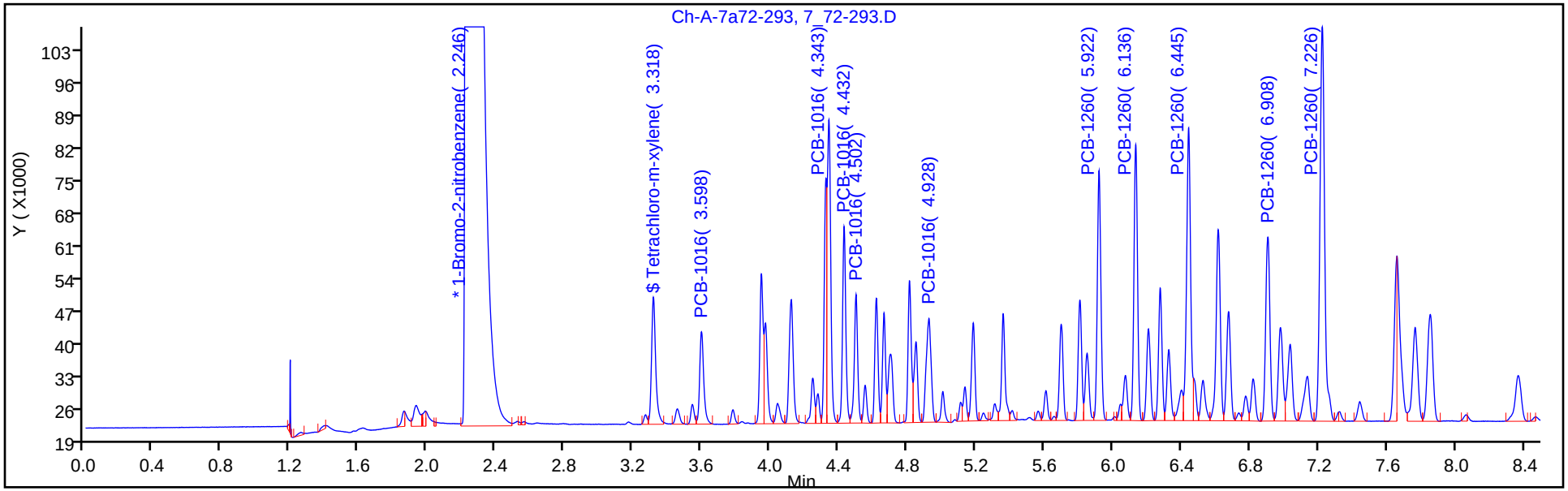
Report Date: 24-Jul-2020 08:59:49 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Buffalo

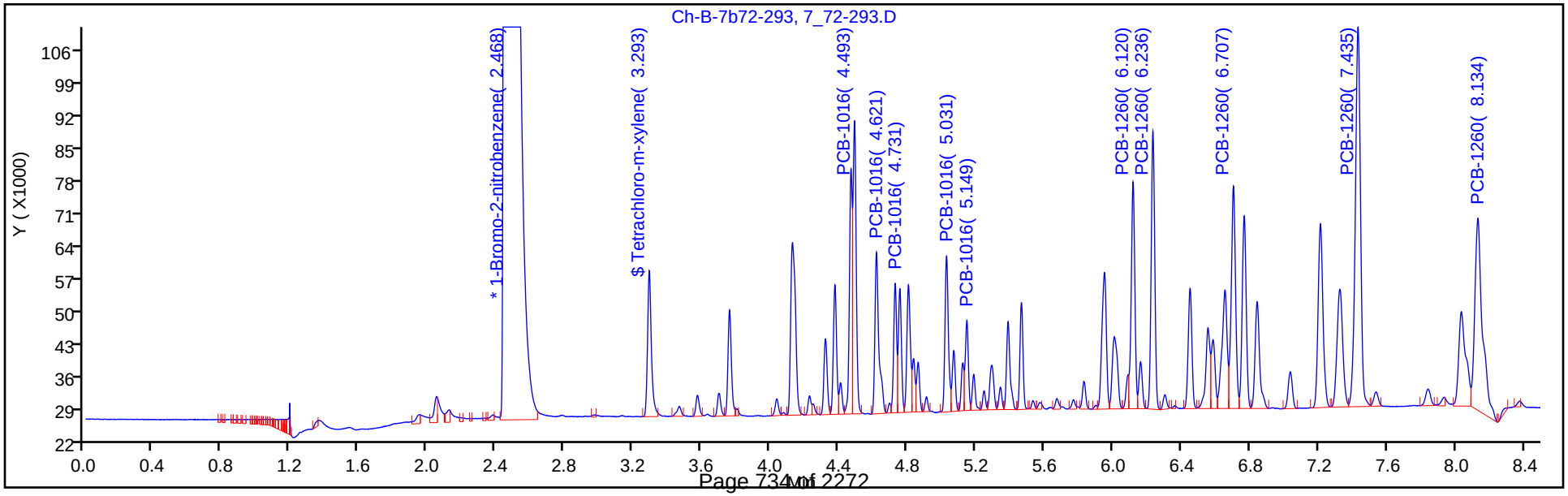
Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-293.D

Injection Date:	23-Jul-2020 17:36:10	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC level 3			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-294.D
Lims ID: IC level 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 23-Jul-2020 17:52:01 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Jul-2020 08:59:50 Calib Date: 23-Jul-2020 18:07:54
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1059

First Level Reviewer: clarkda Date: 23-Jul-2020 18:56:47

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.244	2.244	0.000	5922924	0.5000	0.5000	
2	2.466	2.464	0.002	6144208	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	3.317	3.317	0.000	24147	0.001250	0.001295	
2	3.293	3.293	0.000	25738	0.001250	0.001299	
						RPD = 0.28	
9 PCB-1016							
1	3.598	3.598	0.000	17691	0.0500	0.0543	
1	4.343	4.343	0.001	47575	0.0500	0.0510	
1	4.432	4.431	0.001	29651	0.0500	0.0523	
1	4.502	4.502	0.000	20544	0.0500	0.0531	
1	4.928	4.925	0.003	24024	0.0500	0.0532	
		Average of Peak Amounts =				0.0528	
2	4.493	4.492	0.001	42868	0.0500	0.0520	
2	4.621	4.620	0.001	30566	0.0500	0.0534	
2	4.731	4.729	0.002	17473	0.0500	0.0546	
2	5.031	5.030	0.001	25372	0.0500	0.0566	
2	5.149	5.148	0.001	13479	0.0500	0.0578	
		Average of Peak Amounts =				0.0549	
						RPD = 3.89	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	5.921	5.921	0.000	42841	0.0500	0.0529	M
1	6.135	6.134	0.001	47112	0.0500	0.0529	M
1	6.443	6.443	0.000	56087	0.0500	0.0533	M
1	6.906	6.906	0.000	37931	0.0500	0.0540	M
1	7.223	7.223	0.001	89448	0.0500	0.0533	M
		Average of Peak Amounts =				0.0533	
2	6.121	6.119	0.002	39246	0.0500	0.0536	
2	6.238	6.236	0.002	47062	0.0500	0.0535	
2	6.708	6.706	0.002	44606	0.0500	0.0527	
2	7.436	7.433	0.003	92609	0.0500	0.0522	
2	8.135	8.132	0.003	64006	0.0500	0.0515	
		Average of Peak Amounts =				0.0527	
						RPD = 1.12	
$ 15 DCB Decachlorobiphenyl							M
1	10.155	10.149	0.006	20952	0.001250	0.001352	M
2	10.823	10.817	0.005	22695	0.001250	0.001347	
						RPD = 0.36	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.05_00017 Amount Added: 1.00 Units: mL

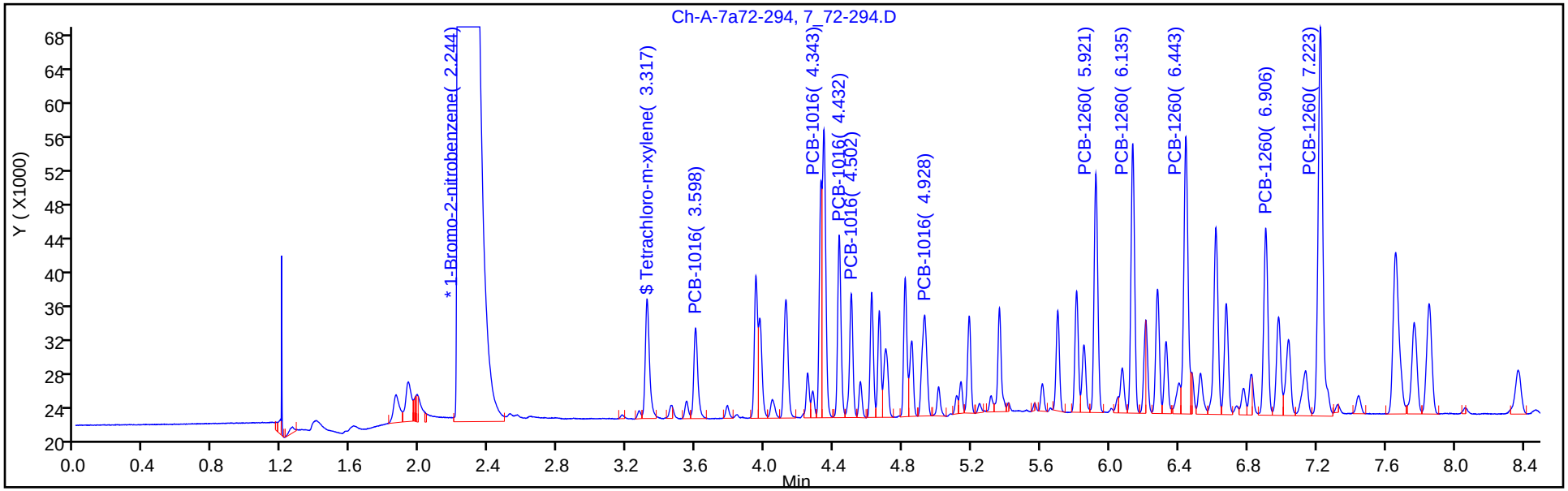
Report Date: 24-Jul-2020 08:59:50 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Buffalo

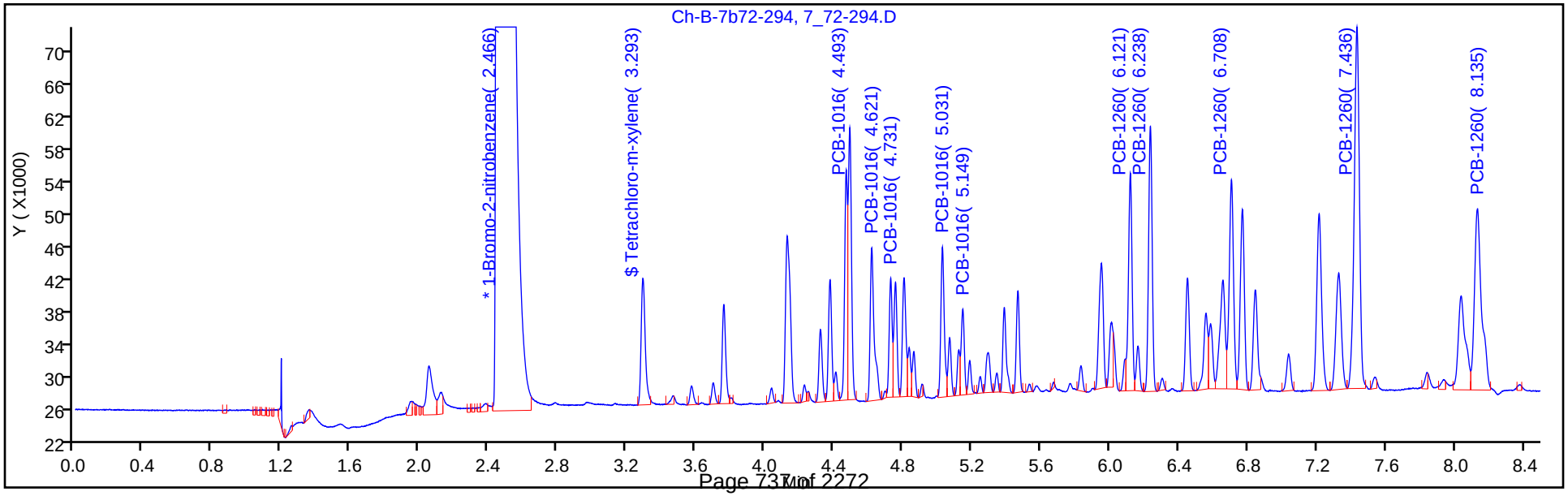
Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-294.D

Injection Date:	23-Jul-2020 17:52:01	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC level 2			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D
Lims ID: IC level 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Jul-2020 18:07:54 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Jul-2020 08:59:51 Calib Date: 23-Jul-2020 18:07:54
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1059

First Level Reviewer: clarkda Date: 23-Jul-2020 18:57:20

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.244	2.244	0.000	6036089	0.5000	0.5000	
2	2.466	2.466	0.000	6269298	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	3.318	3.318	0.000	10030	0.000500	0.000488	
2	3.293	3.293	0.000	10951	0.000500	0.000469	M
						RPD = 4.09	
9 PCB-1016							M
1	3.599	3.599	0.000	7106	0.0200	0.0166	
1	4.345	4.345	0.000	20660	0.0200	0.0203	
1	4.433	4.433	0.000	12938	0.0200	0.0182	
1	4.503	4.503	0.000	8794	0.0200	0.0175	
1	4.928	4.928	0.000	10321	0.0200	0.0176	
		Average of Peak Amounts =				0.0180	
2	4.493	4.493	0.000	18609	0.0200	0.0188	
2	4.621	4.621	0.000	13280	0.0200	0.0166	M
2	4.731	4.731	0.000	7487	0.0200	0.0229	
2	5.032	5.032	0.000	10405	0.0200	0.0228	
2	5.149	5.149	0.000	5271	0.0200	0.0222	
		Average of Peak Amounts =				0.0206	
						RPD = 13.38	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	5.923	5.923	0.000	19039	0.0200	0.0193	
1	6.137	6.137	0.000	20800	0.0200	0.0195	
1	6.444	6.444	0.000	23601	0.0200	0.0192	
1	6.908	6.908	0.000	16462	0.0200	0.0183	
1	7.225	7.225	0.000	38335	0.0200	0.0199	
		Average of Peak Amounts =				0.0192	
2	6.121	6.121	0.000	17503	0.0200	0.0174	
2	6.238	6.238	0.000	20885	0.0200	0.0182	
2	6.708	6.708	0.000	19736	0.0200	0.0183	
2	7.437	7.437	0.000	39944	0.0200	0.0195	
2	8.133	8.133	0.000	28531	0.0200	0.0160	M
		Average of Peak Amounts =				0.0179	
						RPD = 7.10	
$ 15 DCB Decachlorobiphenyl							M
1	10.158	10.158	0.000	8979	0.000500	0.000399	
2	10.819	10.819	0.000	9922	0.000500	0.000387	M
						RPD = 3.01	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.02_00019 Amount Added: 1.00 Units: mL

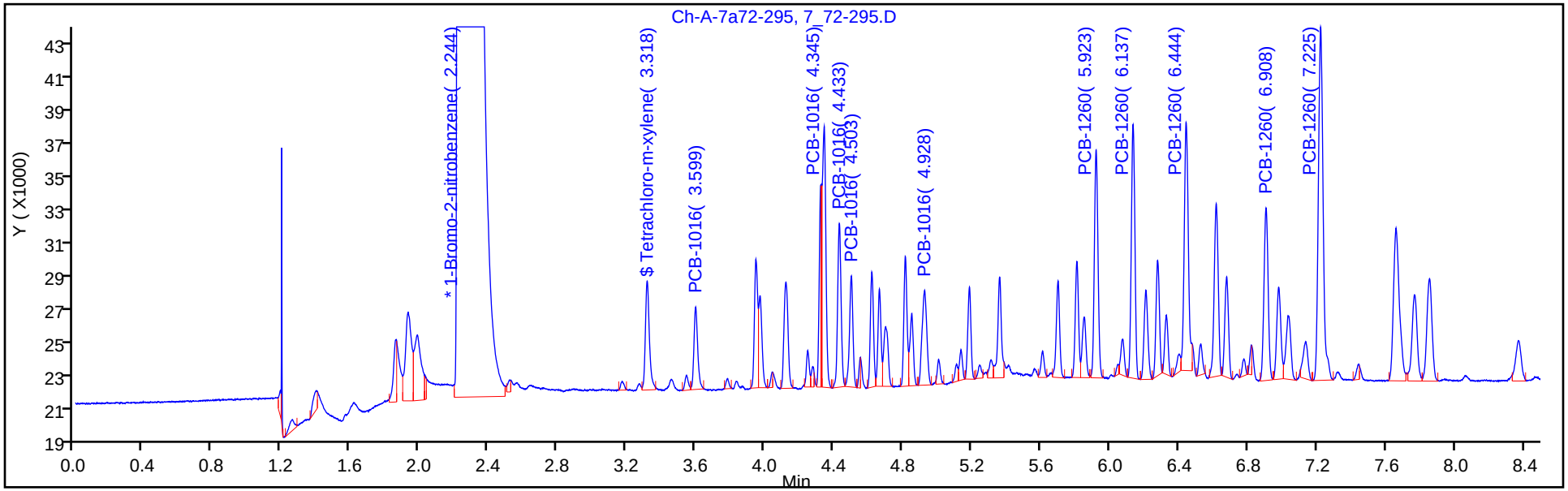
Report Date: 24-Jul-2020 08:59:52 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Buffalo

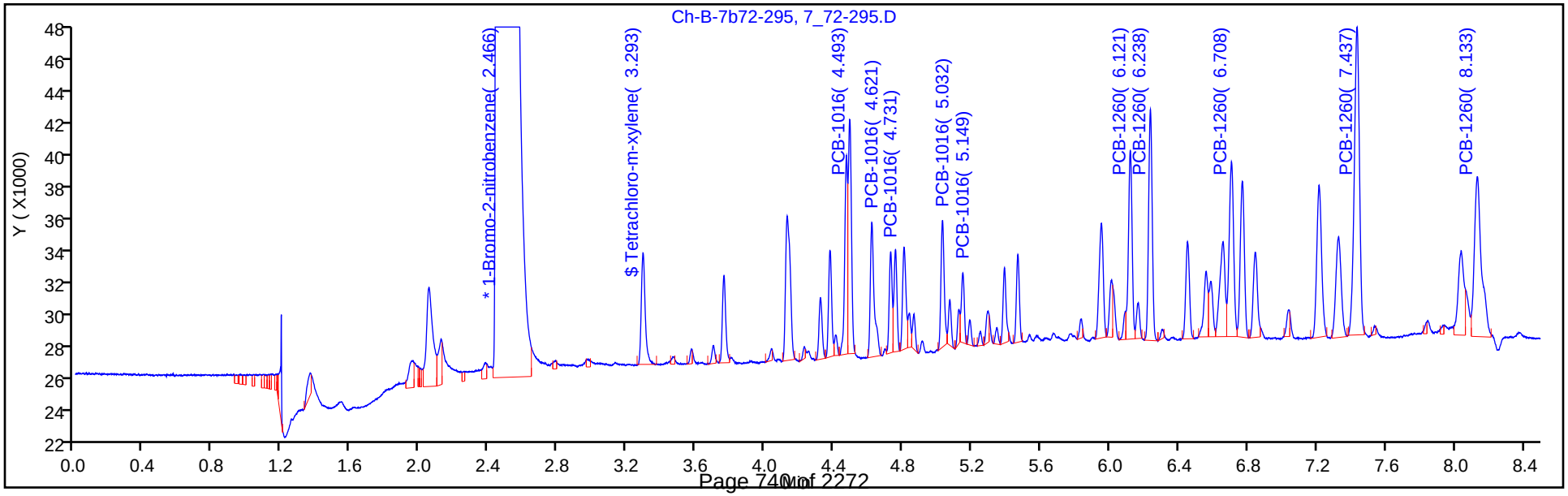
Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D

Injection Date:	23-Jul-2020 18:07:54	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC level 1			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Eurofins TestAmerica, Buffalo

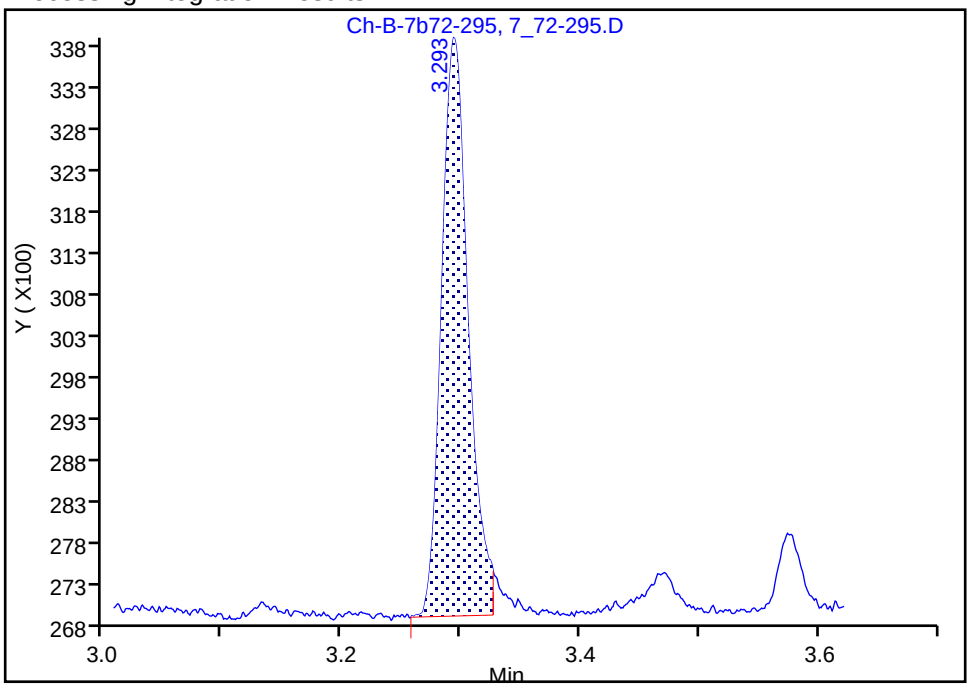
Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D
Injection Date: 23-Jul-2020 18:07:54 Instrument ID: HP6890-7
Lims ID: IC level 1
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: ZB-35 (0.53 mm) Detector Ch-B-7b136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

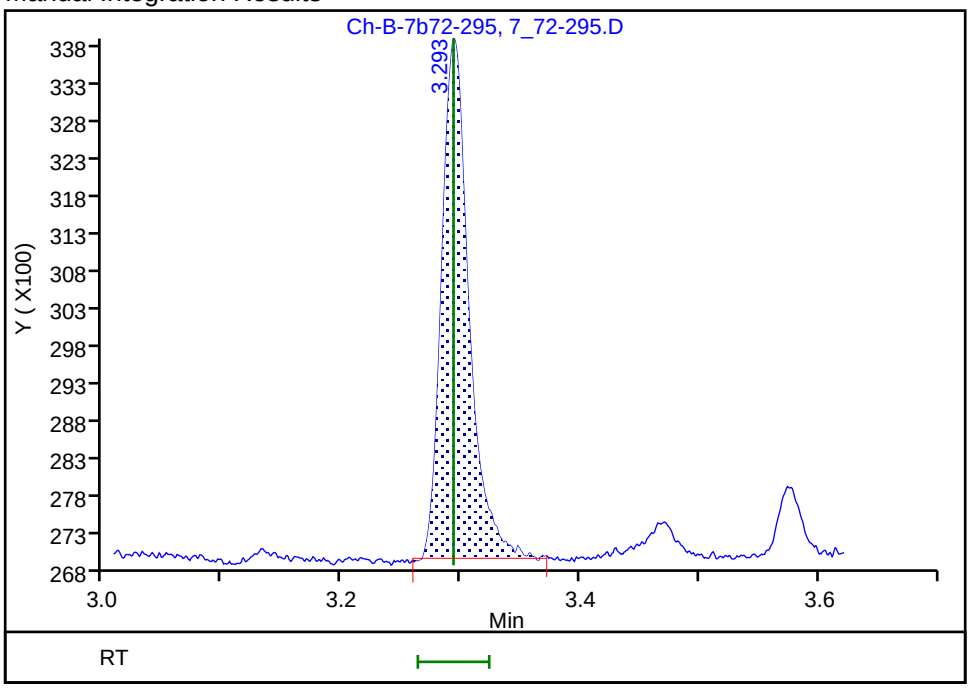
Processing Integration Results

RT: 3.29
Area: 10766
Amount: 0.000465
Amount Units: ng/uL



Manual Integration Results

RT: 3.29
Area: 10951
Amount: 0.000469
Amount Units: ng/uL



Reviewer: clarkda, 23-Jul-2020 18:57:17
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Report Date: 24-Jul-2020 08:59:52 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D

Injection Date: 23-Jul-2020 18:07:54 Instrument ID: HP6890-7

Lims ID: IC level 1

Client ID:

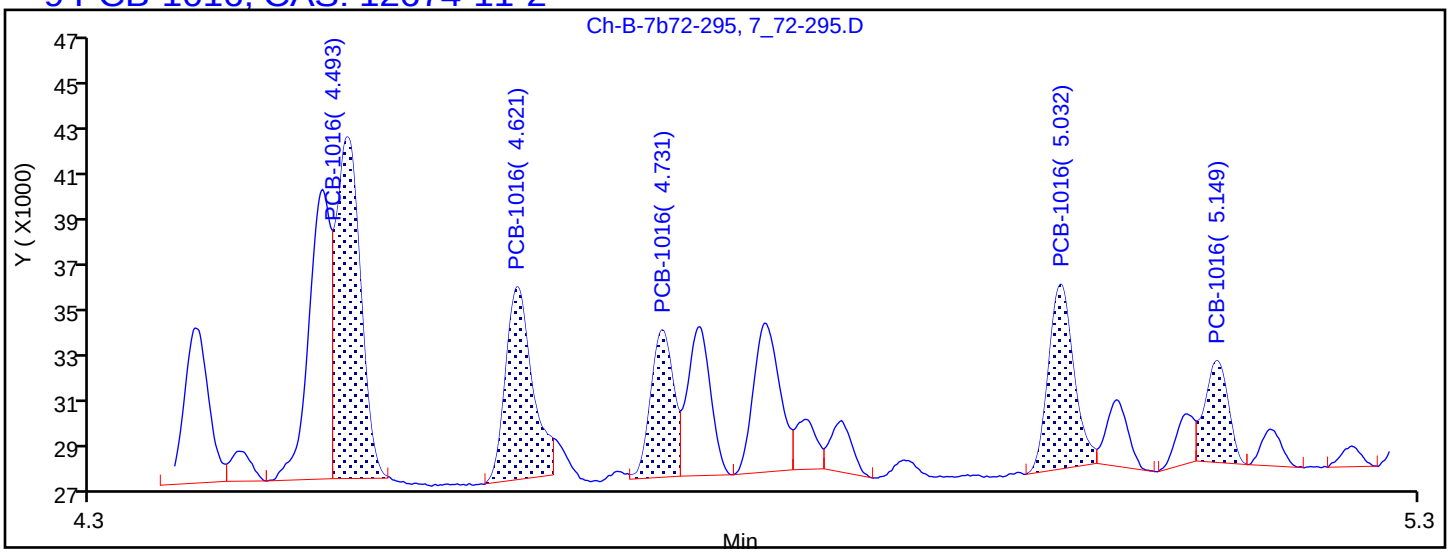
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 11

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

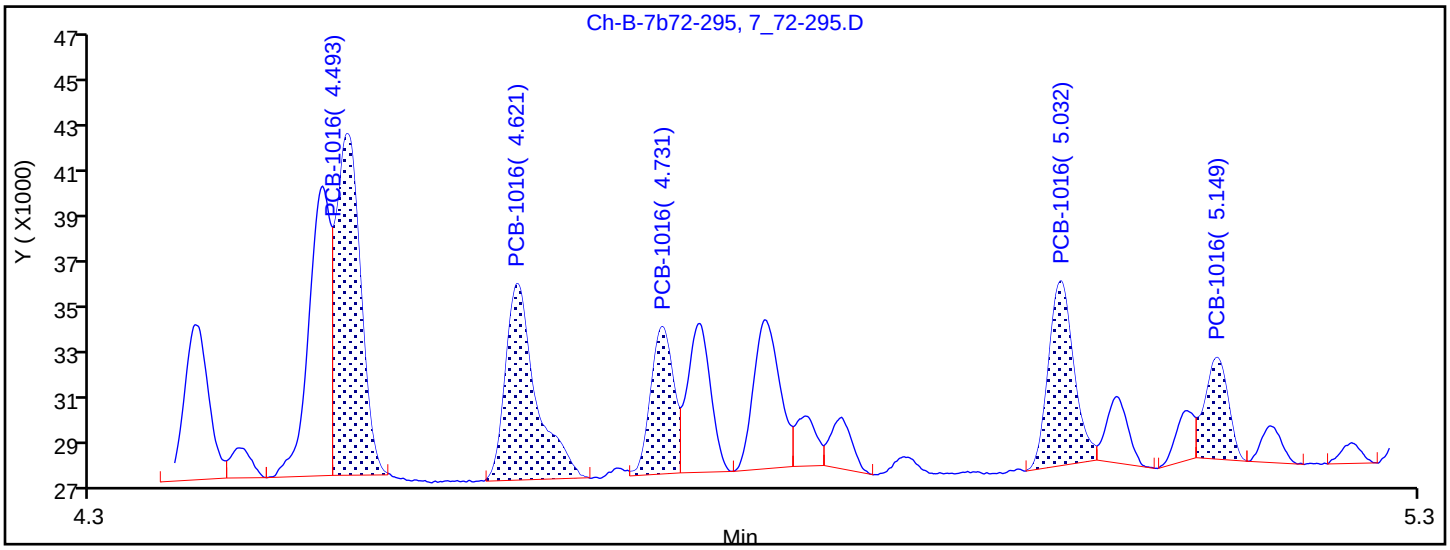
Column: ZB-35 (0.53 mm) Detector Ch-B-7b136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

4.493	Response = 18609
4.621	Response = 11471
4.731	Response = 7487
5.032	Response = 10405
5.149	Response = 5271



Manual Integration Results

4.493	Response = 18609	
4.621	Response = 13280	M
4.731	Response = 7487	
5.032	Response = 10405	
5.149	Response = 5271	

Reviewer: clarkda, 23-Jul-2020 19:00:13

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Report Date: 24-Jul-2020 08:59:52 Chrom Revision: 2.3 30-Jun-2020 12:05:54

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D

Injection Date: 23-Jul-2020 18:07:54 Instrument ID: HP6890-7

Lims ID: IC level 1

Client ID:

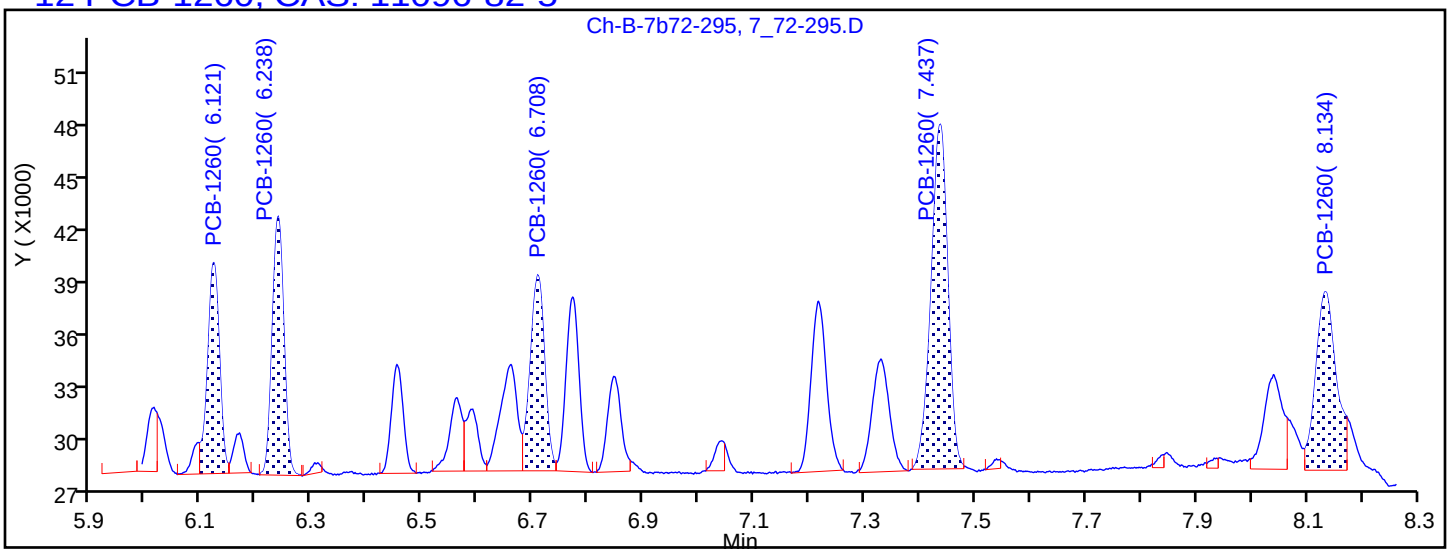
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 11

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

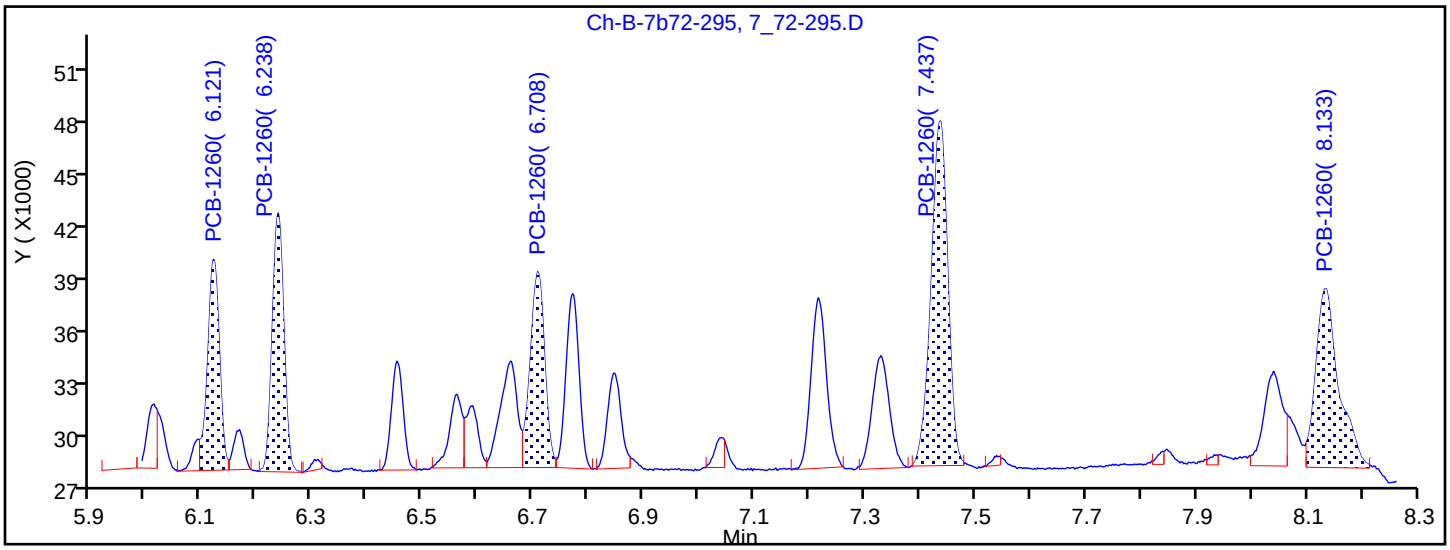
Column: ZB-35 (0.53 mm) Detector Ch-B-7b136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

6.121	Response = 17503
6.238	Response = 20885
6.708	Response = 19736
7.437	Response = 39944
8.134	Response = 25403



Manual Integration Results

6.121	Response = 17503	
6.238	Response = 20885	
6.708	Response = 19736	
7.437	Response = 39944	
8.133	Response = 28531	M

Reviewer: clarkda, 23-Jul-2020 19:04:01

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

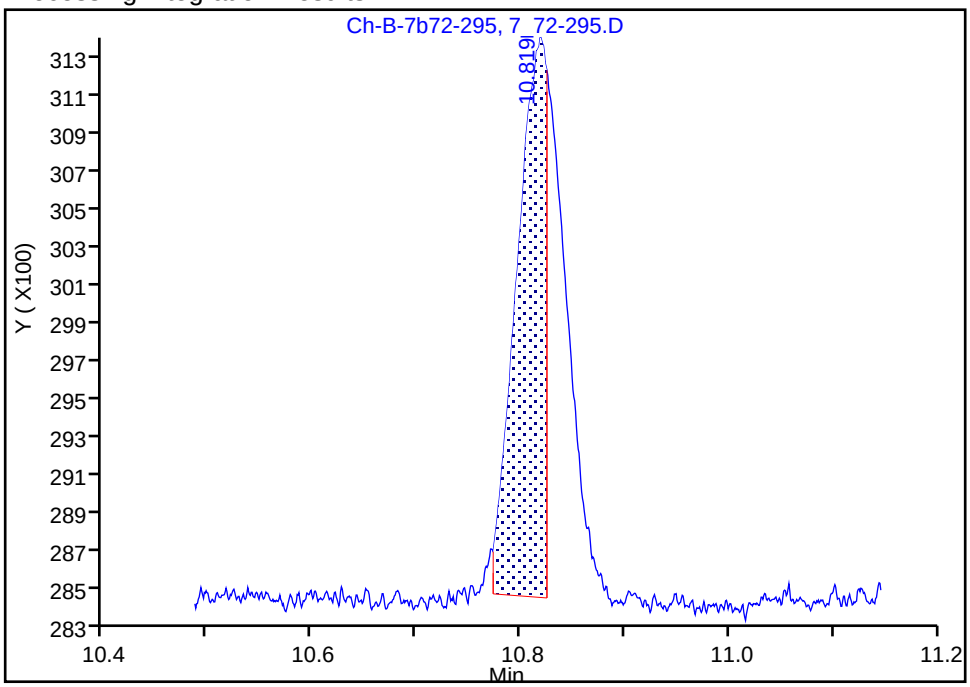
Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D
Injection Date: 23-Jul-2020 18:07:54 Instrument ID: HP6890-7
Lims ID: IC level 1
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: ZB-35 (0.53 mm) Detector Ch-B-7b136

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

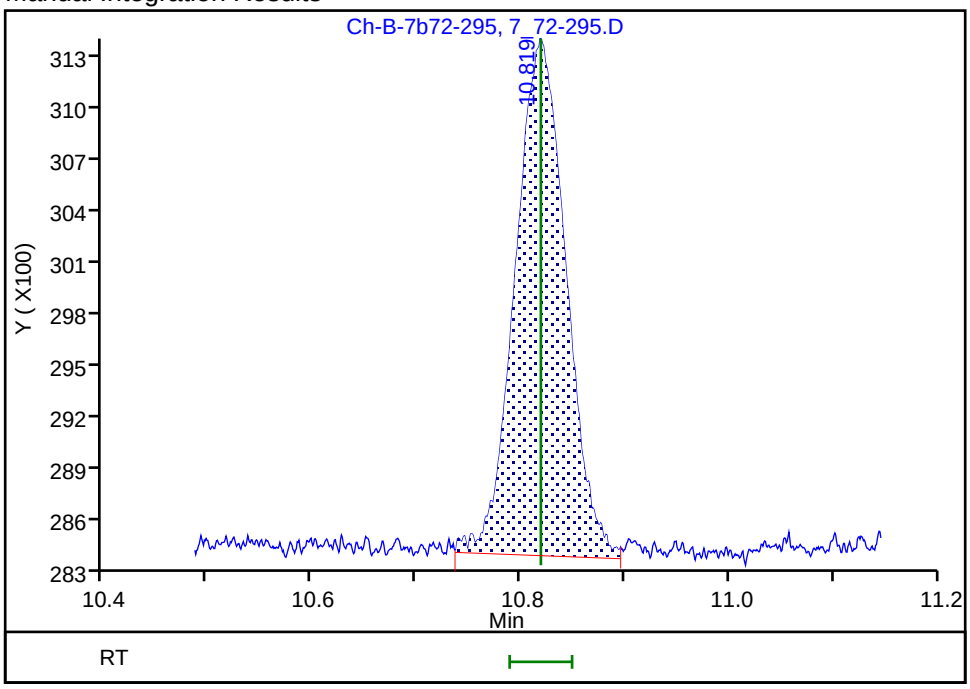
Processing Integration Results

RT: 10.82
Area: 5473
Amount: 0.000372
Amount Units: ng/uL



Manual Integration Results

RT: 10.82
Area: 9922
Amount: 0.000387
Amount Units: ng/uL



Reviewer: clarkda, 23-Jul-2020 18:57:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCVIS 480-570176/5 Calibration Date: 02/21/2021 14:50

Instrument ID: HP6890-6 Calib Start Date: 12/16/2020 15:33

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 12/16/2020 16:47

Lab File ID: 6_084-102.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0298	0.0260		0.435	0.500	-12.9	20.0
PCB-1016 Peak 2	Lin1		0.0753		0.408	0.500	-18.3	20.0
PCB-1016 Peak 3	Lin1		0.0265		0.383	0.500	-23.4*	20.0
PCB-1016 Peak 4	Lin1		0.0174		0.357	0.500	-28.5*	20.0
PCB-1016 Peak 5	Lin1		0.0162		0.313	0.500	-37.4*	20.0
PCB-1260 Peak 1	Lin1		0.0411		0.703	0.500	40.7*	20.0
PCB-1260 Peak 2	Lin1		0.0680		0.624	0.500	24.8*	20.0
PCB-1260 Peak 3	Lin1		0.0654		0.516	0.500	3.2	20.0
PCB-1260 Peak 4	Lin1		0.0332		0.420	0.500	-15.9	20.0
PCB-1260 Peak 5	Lin1		0.1003		0.548	0.500	9.6	20.0
Tetrachloro-m-xylene	Lin2		1.125		0.0117	0.0125	-6.2	20.0
DCB Decachlorobiphenyl	Ave	0.4823	0.7710		0.0200	0.0125	59.9*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCVIS 480-570176/5 Calibration Date: 02/21/2021 14:50

Instrument ID: HP6890-6 Calib Start Date: 12/16/2020 15:33

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 12/16/2020 16:47

Lab File ID: 6_084-102.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	1.92	1.91	1.94
PCB-1016 Peak 2	2.10	2.09	2.12
PCB-1016 Peak 3	2.17	2.16	2.19
PCB-1016 Peak 4	2.23	2.21	2.24
PCB-1016 Peak 5	2.58	2.57	2.60
PCB-1260 Peak 1	3.44	3.42	3.45
PCB-1260 Peak 2	3.62	3.60	3.63
PCB-1260 Peak 3	3.83	3.81	3.84
PCB-1260 Peak 4	4.13	4.12	4.15
PCB-1260 Peak 5	4.34	4.32	4.35
Tetrachloro-m-xylene	1.33	1.31	1.34
DCB Decachlorobiphenyl	5.52	5.51	5.54

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-102.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 21-Feb-2021 14:50:36 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 22-Feb-2021 11:11:24 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1630

First Level Reviewer: chumongkolratn Date: 22-Feb-2021 11:11:24

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.735	0.735	0.000	4379137	0.5000	0.5000	
2	0.828	0.828	0.000	13362307	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	1.326	1.326	0.000	123134	0.0125	0.0117	
2	1.298	1.298	0.000	448838	0.0125	0.0122	
						RPD = 3.64	
6 PCB-1016							
1	1.924	1.924	0.000	113727	0.5000	0.4354	
1	2.103	2.103	0.000	329591	0.5000	0.4083	
1	2.174	2.174	0.000	116106	0.5000	0.3828	
1	2.228	2.228	0.000	76132	0.5000	0.3575	
1	2.583	2.583	0.000	70856	0.5000	0.3132	
		Average of Peak Amounts =				0.3794	
2	2.231	2.231	0.000	1333786	0.5000	0.4790	
2	2.335	2.335	0.000	520673	0.5000	0.4777	
2	2.423	2.423	0.000	342965	0.5000	0.4633	
2	2.689	2.689	0.000	559946	0.5000	0.4496	
2	2.784	2.784	0.000	411736	0.5000	0.4685	
		Average of Peak Amounts =				0.4676	
						RPD = 20.83	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	3.438	3.438	0.000	180151	0.5000	0.7035	
1	3.618	3.618	0.000	297647	0.5000	0.6241	
1	3.828	3.828	0.000	286498	0.5000	0.5162	
1	4.132	4.132	0.000	145213	0.5000	0.4203	
1	4.337	4.337	0.000	439440	0.5000	0.5478	M
		Average of Peak Amounts =				0.5624	
2	3.598	3.598	0.000	708838	0.5000	0.4799	
2	3.705	3.705	0.000	608765	0.5000	0.3820	
2	4.004	4.004	0.000	671693	0.5000	0.4571	
2	4.445	4.445	0.000	1445940	0.5000	0.4864	
2	4.763	4.763	0.000	962197	0.5000	0.4663	
		Average of Peak Amounts =				0.4543	
						RPD = 21.25	
9 1260 Res 1							
1	4.560	4.560	0.000	194672	NR	NR	
2	4.763	4.763	0.000	962197	NR	NR	
						RPD = NaN	
14 1260 Res 2							
1	4.623	4.623	0.000	98220	NR	NR	
2	5.088	5.088	0.000	182317	NR	NR	
						RPD = NaN	
12 1260 Res 3							
1	4.662	4.662	0.000	116020	NR	NR	
2	5.152	5.152	0.000	410082	NR	NR	
						RPD = NaN	
$ 15 DCB Decachlorobiphenyl							
1	5.521	5.521	0.000	84411	0.0125	0.0200	
2	5.635	5.635	0.000	259149	0.0125	0.0113	
						RPD = 55.69	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.5_00124 Amount Added: 1.00 Units: mL

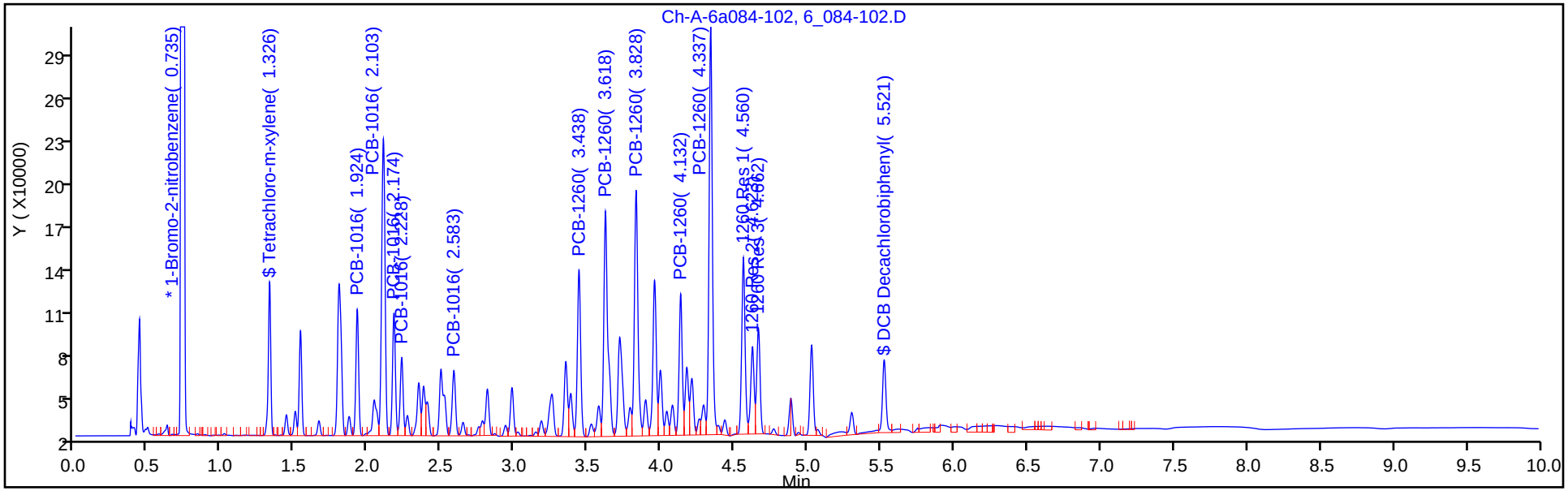
Report Date: 22-Feb-2021 11:11:25 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

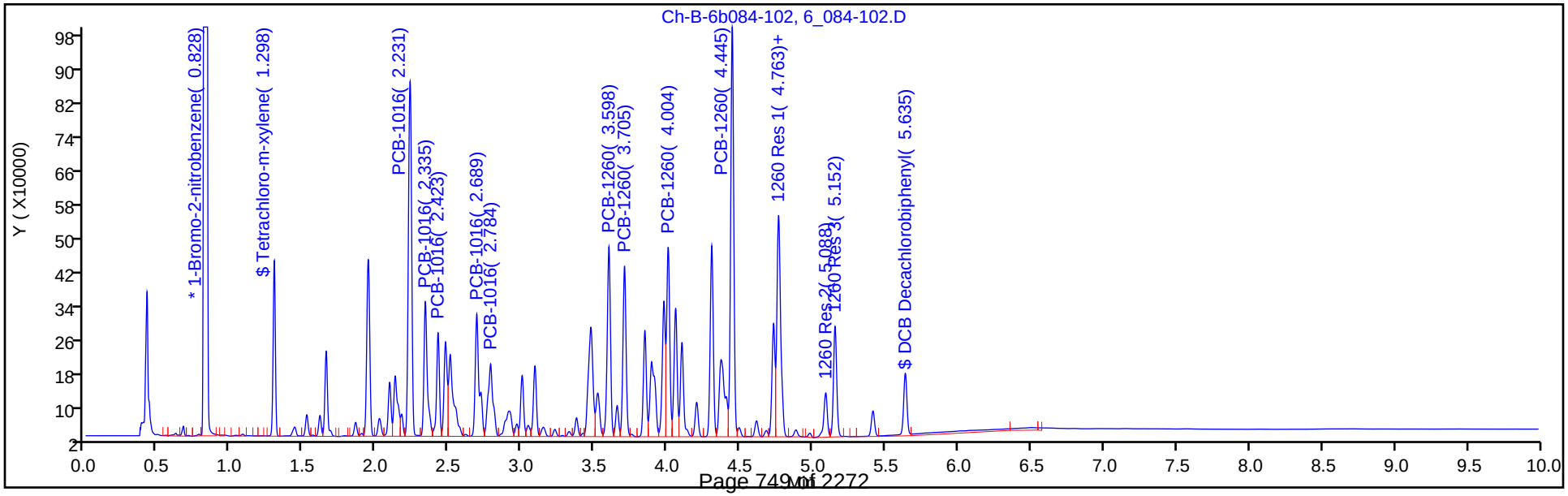
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-102.D

Injection Date:	21-Feb-2021 14:50:36	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	CCVIS			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Report Date: 22-Feb-2021 11:11:25 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-102.D

Injection Date: 21-Feb-2021 14:50:36 Instrument ID: HP6890-6

Lims ID: CCVIS

Client ID:

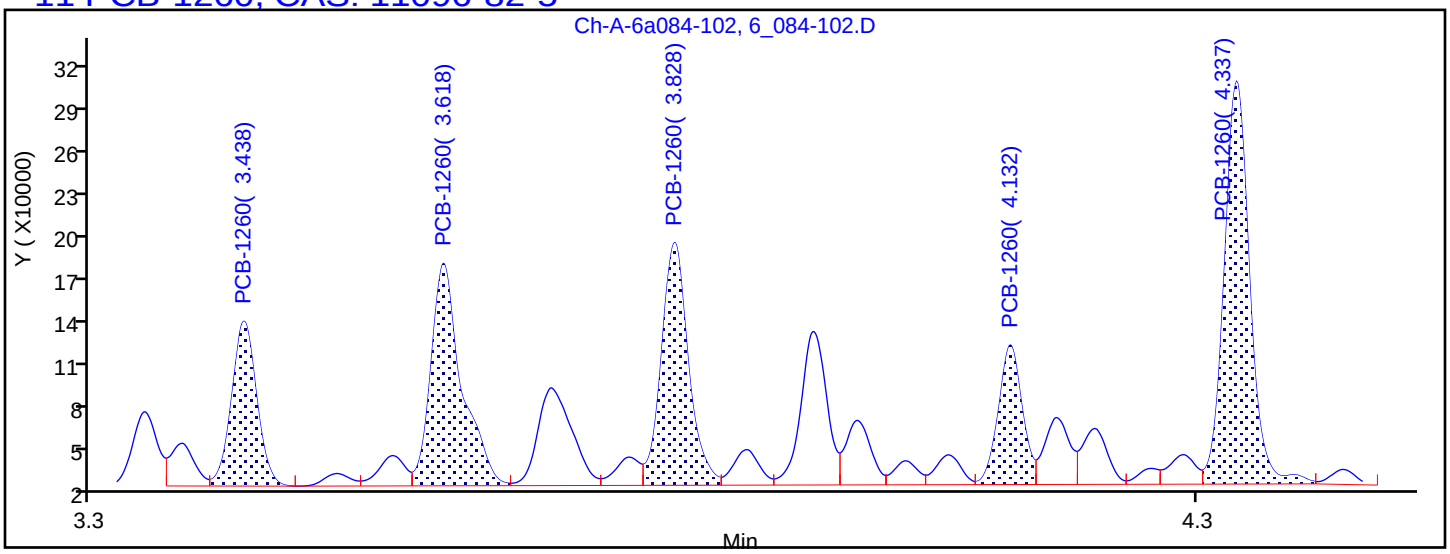
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 5

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

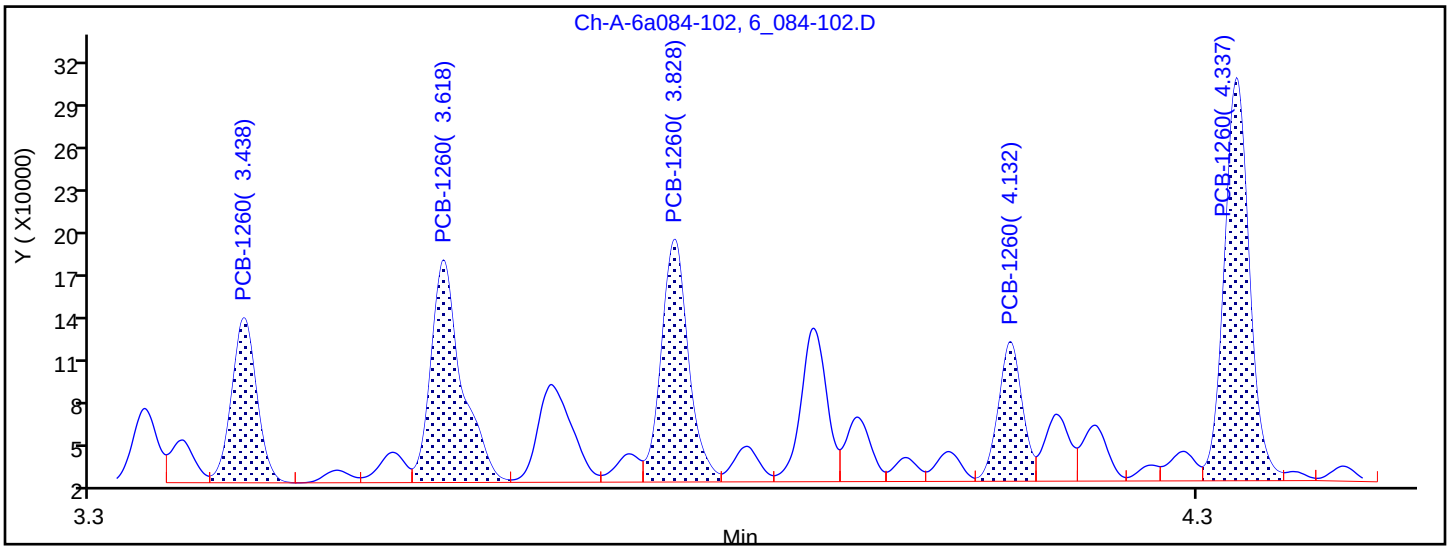
Column: ZB-5 (0.53 mm) Detector Ch-A-7A136

11 PCB-1260, CAS: 11096-82-5



Processing Integration Results

3.438	Response = 180151
3.618	Response = 297647
3.828	Response = 286498
4.132	Response = 145213
4.337	Response = 447536



Manual Integration Results

3.438	Response = 180151	
3.618	Response = 297647	
3.828	Response = 286498	
4.132	Response = 145213	
4.337	Response = 439440	M

Reviewer: chumongkolratn, 22-Feb-2021 11:11:22

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCVIS 480-570176/5 Calibration Date: 02/21/2021 14:50

Instrument ID: HP6890-6 Calib Start Date: 12/16/2020 15:33

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 12/16/2020 16:47

Lab File ID: 6_084-102.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin2		0.0998		0.479	0.500	-4.2	20.0
PCB-1016 Peak 2	Lin2		0.0390		0.478	0.500	-4.5	20.0
PCB-1016 Peak 3	Lin2		0.0257		0.463	0.500	-7.3	20.0
PCB-1016 Peak 4	Ave	0.0466	0.0419		0.450	0.500	-10.1	20.0
PCB-1016 Peak 5	Lin2		0.0308		0.469	0.500	-6.3	20.0
PCB-1260 Peak 1	Lin1		0.0530		0.480	0.500	-4.0	20.0
PCB-1260 Peak 2	Lin2		0.0456		0.382	0.500	-23.6*	20.0
PCB-1260 Peak 3	Lin1		0.0503		0.457	0.500	-8.6	20.0
PCB-1260 Peak 4	Lin1		0.1082		0.486	0.500	-2.7	20.0
PCB-1260 Peak 5	Lin2		0.0720		0.466	0.500	-6.7	20.0
Tetrachloro-m-xylene	Lin2		1.344		0.0122	0.0125	-2.8	20.0
DCB Decachlorobiphenyl	Lin2		0.7758		0.0113	0.0125	-9.8	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCVIS 480-570176/5 Calibration Date: 02/21/2021 14:50

Instrument ID: HP6890-6 Calib Start Date: 12/16/2020 15:33

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 12/16/2020 16:47

Lab File ID: 6_084-102.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.23	2.22	2.25
PCB-1016 Peak 2	2.34	2.32	2.35
PCB-1016 Peak 3	2.42	2.41	2.44
PCB-1016 Peak 4	2.69	2.67	2.70
PCB-1016 Peak 5	2.78	2.77	2.80
PCB-1260 Peak 1	3.60	3.58	3.61
PCB-1260 Peak 2	3.71	3.69	3.72
PCB-1260 Peak 3	4.00	3.99	4.02
PCB-1260 Peak 4	4.45	4.43	4.46
PCB-1260 Peak 5	4.76	4.75	4.78
Tetrachloro-m-xylene	1.30	1.28	1.31
DCB Decachlorobiphenyl	5.64	5.62	5.65

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-102.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 21-Feb-2021 14:50:36 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 22-Feb-2021 11:11:24 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1630

First Level Reviewer: chumongkolratn Date: 22-Feb-2021 11:11:24

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.735	0.735	0.000	4379137	0.5000	0.5000	
2	0.828	0.828	0.000	13362307	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	1.326	1.326	0.000	123134	0.0125	0.0117	
2	1.298	1.298	0.000	448838	0.0125	0.0122	
						RPD = 3.64	
6 PCB-1016							
1	1.924	1.924	0.000	113727	0.5000	0.4354	
1	2.103	2.103	0.000	329591	0.5000	0.4083	
1	2.174	2.174	0.000	116106	0.5000	0.3828	
1	2.228	2.228	0.000	76132	0.5000	0.3575	
1	2.583	2.583	0.000	70856	0.5000	0.3132	
		Average of Peak Amounts =				0.3794	
2	2.231	2.231	0.000	1333786	0.5000	0.4790	
2	2.335	2.335	0.000	520673	0.5000	0.4777	
2	2.423	2.423	0.000	342965	0.5000	0.4633	
2	2.689	2.689	0.000	559946	0.5000	0.4496	
2	2.784	2.784	0.000	411736	0.5000	0.4685	
		Average of Peak Amounts =				0.4676	
						RPD = 20.83	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	3.438	3.438	0.000	180151	0.5000	0.7035	
1	3.618	3.618	0.000	297647	0.5000	0.6241	
1	3.828	3.828	0.000	286498	0.5000	0.5162	
1	4.132	4.132	0.000	145213	0.5000	0.4203	
1	4.337	4.337	0.000	439440	0.5000	0.5478	M
		Average of Peak Amounts =				0.5624	
2	3.598	3.598	0.000	708838	0.5000	0.4799	
2	3.705	3.705	0.000	608765	0.5000	0.3820	
2	4.004	4.004	0.000	671693	0.5000	0.4571	
2	4.445	4.445	0.000	1445940	0.5000	0.4864	
2	4.763	4.763	0.000	962197	0.5000	0.4663	
		Average of Peak Amounts =				0.4543	
						RPD = 21.25	
9 1260 Res 1							
1	4.560	4.560	0.000	194672	NR	NR	
2	4.763	4.763	0.000	962197	NR	NR	
						RPD = NaN	
14 1260 Res 2							
1	4.623	4.623	0.000	98220	NR	NR	
2	5.088	5.088	0.000	182317	NR	NR	
						RPD = NaN	
12 1260 Res 3							
1	4.662	4.662	0.000	116020	NR	NR	
2	5.152	5.152	0.000	410082	NR	NR	
						RPD = NaN	
$ 15 DCB Decachlorobiphenyl							
1	5.521	5.521	0.000	84411	0.0125	0.0200	
2	5.635	5.635	0.000	259149	0.0125	0.0113	
						RPD = 55.69	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.5_00124 Amount Added: 1.00 Units: mL

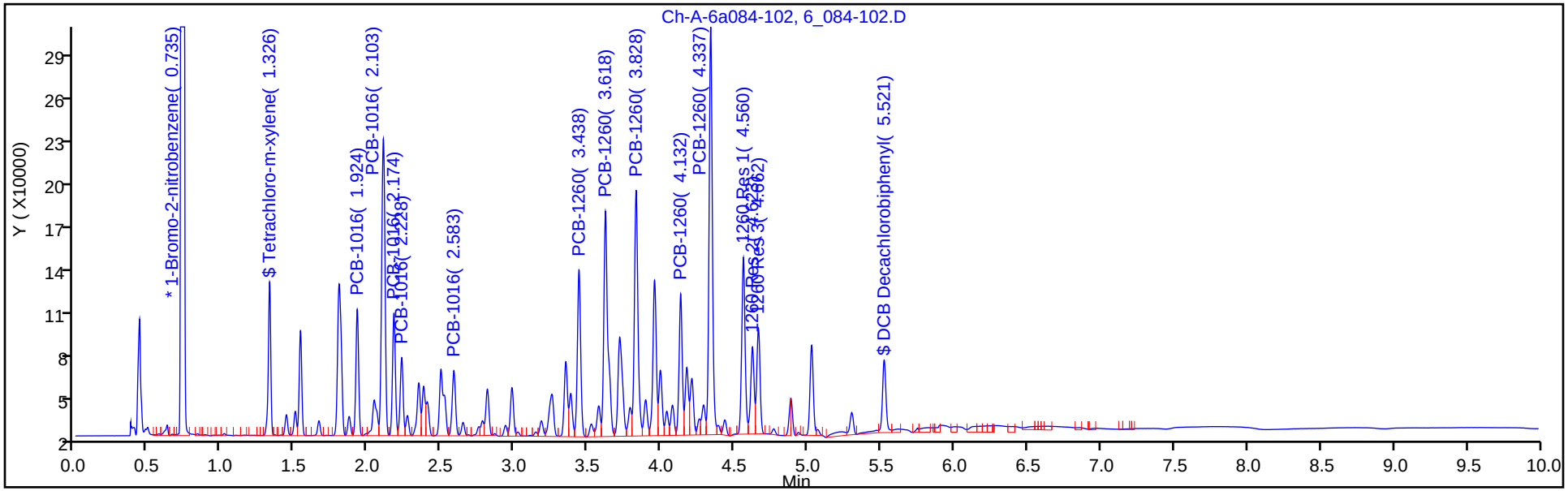
Report Date: 22-Feb-2021 11:11:25 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

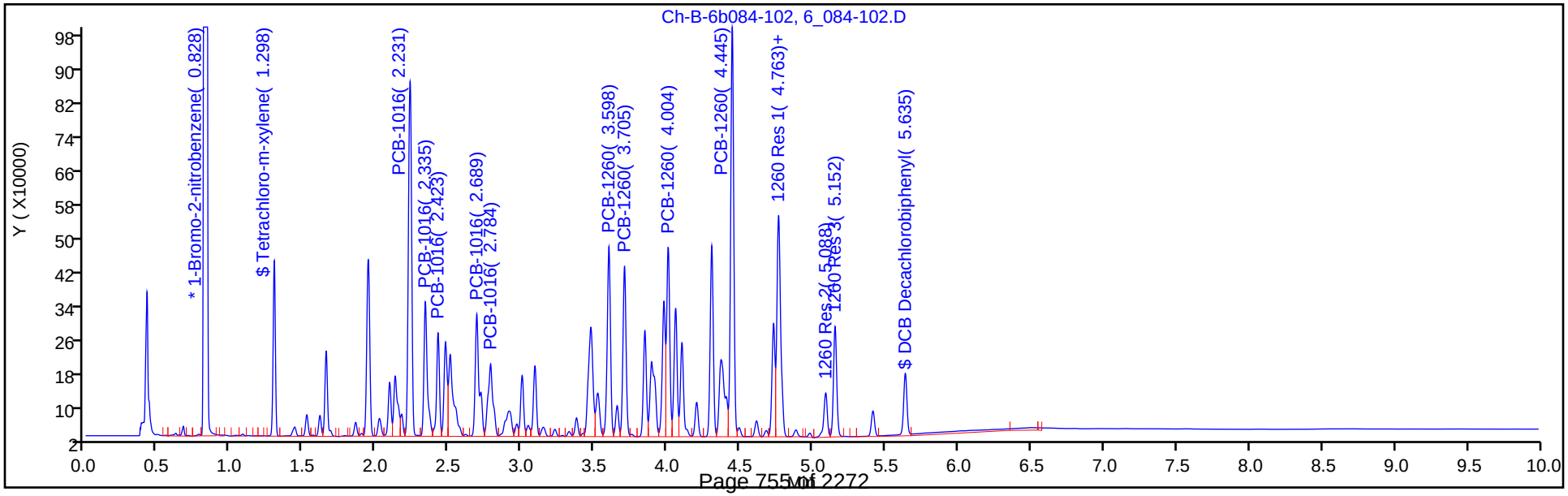
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-102.D

Injection Date:	21-Feb-2021 14:50:36	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	CCVIS			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 480-570176/6 Calibration Date: 02/21/2021 15:02

Instrument ID: HP6890-6 Calib Start Date: 12/16/2020 18:01

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 12/16/2020 18:26

Lab File ID: 6_084-103.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Lin2		0.0023		0.511	0.500	2.2	20.0
PCB-1221 Peak 2	Lin1		0.0124		0.534	0.500	6.7	20.0
PCB-1221 Peak 3	Lin1		0.0078		0.548	0.500	9.6	20.0
PCB-1221 Peak 4	Lin1		0.0281		0.528	0.500	5.5	20.0
PCB-1254 Peak 1	Lin1		0.0245		0.374	0.500	-25.2*	20.0
PCB-1254 Peak 2	Lin1		0.0357		0.449	0.500	-10.2	20.0
PCB-1254 Peak 3	Lin1		0.0505		0.702	0.500	40.5*	20.0
PCB-1254 Peak 4	Lin1		0.0588		0.683	0.500	36.5*	20.0
PCB-1254 Peak 5	Lin1		0.0564		0.515	0.500	3.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 480-570176/6 Calibration Date: 02/21/2021 15:02

Instrument ID: HP6890-6 Calib Start Date: 12/16/2020 18:01

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 12/16/2020 18:26

Lab File ID: 6_084-103.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	1.20	1.19	1.22
PCB-1221 Peak 2	1.44	1.43	1.46
PCB-1221 Peak 3	1.50	1.49	1.52
PCB-1221 Peak 4	1.54	1.52	1.55
PCB-1254 Peak 1	2.81	2.80	2.83
PCB-1254 Peak 2	2.98	2.97	3.00
PCB-1254 Peak 3	3.26	3.24	3.27
PCB-1254 Peak 4	3.45	3.43	3.46
PCB-1254 Peak 5	3.83	3.81	3.84

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-103.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 21-Feb-2021 15:02:58 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub4

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 22-Feb-2021 11:13:36 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1630

First Level Reviewer: chumongkolratn Date: 22-Feb-2021 11:13:36

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.735	0.735	0.000	4799426	0.5000	0.5000	
2	0.828	0.828	0.000	14360151	0.5000	0.5000	
						RPD = 0.00	
3 PCB-1221							
1	1.201	1.201	0.000	11134	0.5000	0.5110	
1	1.441	1.441	0.000	59489	0.5000	0.5336	
1	1.502	1.502	0.000	37595	0.5000	0.5480	
1	1.538	1.538	0.000	135100	0.5000	0.5277	
		Average of Peak Amounts =				0.5301	
2	1.433	1.433	0.000	70309	0.5000	0.5500	
2	1.521	1.521	0.000	198105	0.5000	0.5212	
2	1.612	1.612	0.000	121844	0.5000	0.5282	
2	1.655	1.655	0.000	421835	0.5000	0.4875	
		Average of Peak Amounts =				0.5217	
						RPD = 1.58	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
8 PCB-1254							
1	2.813	2.813	0.000	117603	0.5000	0.3740	
1	2.980	2.980	0.000	171259	0.5000	0.4490	
1	3.256	3.256	0.000	242480	0.5000	0.7024	
1	3.447	3.447	0.000	282376	0.5000	0.6827	
1	3.829	3.829	0.000	270647	0.5000	0.5152	
		Average of Peak Amounts =				0.5447	
2	3.001	3.001	0.000	518410	0.5000	0.4919	
2	3.089	3.089	0.000	688582	0.5000	0.4820	
2	3.375	3.375	0.000	526524	0.5000	0.4954	
2	3.457	3.457	0.000	1176374	0.5000	0.4895	
2	4.006	4.006	0.000	779227	0.5000	0.4688	
		Average of Peak Amounts =				0.4855	
						RPD = 11.48	

QC Flag Legend

Processing Flags

Reagents:

21-54w/IS@0.5_00079 Amount Added: 1.00 Units: mL

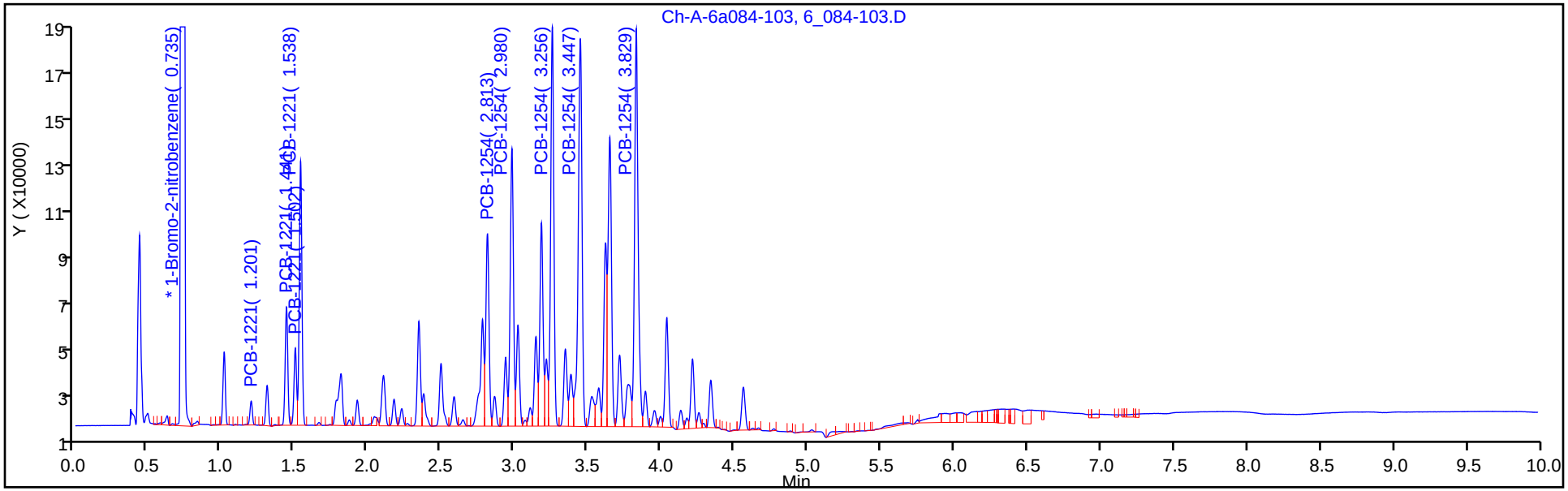
Report Date: 22-Feb-2021 11:13:37 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

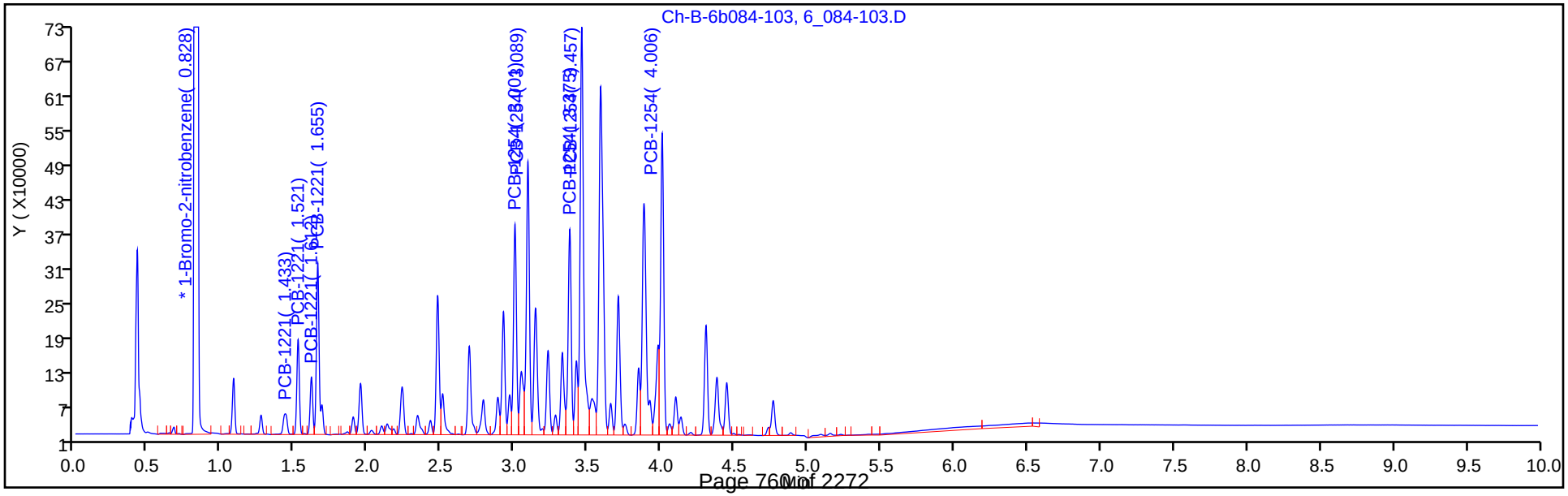
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-103.D

Injection Date:	21-Feb-2021 15:02:58	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 480-570176/6 Calibration Date: 02/21/2021 15:02

Instrument ID: HP6890-6 Calib Start Date: 12/16/2020 18:01

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 12/16/2020 18:26

Lab File ID: 6_084-103.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Lin2		0.0049		0.550	0.500	10.0	20.0
PCB-1221 Peak 2	Lin1		0.0138		0.521	0.500	4.2	20.0
PCB-1221 Peak 3	Lin1		0.0085		0.528	0.500	5.6	20.0
PCB-1221 Peak 4	Lin2		0.0294		0.488	0.500	-2.5	20.0
PCB-1254 Peak 1	Lin1		0.0361		0.492	0.500	-1.6	20.0
PCB-1254 Peak 2	Lin1		0.0480		0.482	0.500	-3.6	20.0
PCB-1254 Peak 3	Lin1		0.0367		0.495	0.500	-0.9	20.0
PCB-1254 Peak 4	Lin1		0.0819		0.490	0.500	-2.1	20.0
PCB-1254 Peak 5	Lin1		0.0543		0.469	0.500	-6.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 480-570176/6 Calibration Date: 02/21/2021 15:02

Instrument ID: HP6890-6 Calib Start Date: 12/16/2020 18:01

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 12/16/2020 18:26

Lab File ID: 6_084-103.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	1.43	1.42	1.45
PCB-1221 Peak 2	1.52	1.51	1.54
PCB-1221 Peak 3	1.61	1.60	1.63
PCB-1221 Peak 4	1.66	1.64	1.67
PCB-1254 Peak 1	3.00	2.99	3.02
PCB-1254 Peak 2	3.09	3.07	3.10
PCB-1254 Peak 3	3.38	3.36	3.39
PCB-1254 Peak 4	3.46	3.44	3.47
PCB-1254 Peak 5	4.01	3.99	4.02

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-103.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 21-Feb-2021 15:02:58 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub4

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 22-Feb-2021 11:13:36 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1630

First Level Reviewer: chumongkolratn Date: 22-Feb-2021 11:13:36

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.735	0.735	0.000	4799426	0.5000	0.5000	
2	0.828	0.828	0.000	14360151	0.5000	0.5000	
						RPD = 0.00	
3 PCB-1221							
1	1.201	1.201	0.000	11134	0.5000	0.5110	
1	1.441	1.441	0.000	59489	0.5000	0.5336	
1	1.502	1.502	0.000	37595	0.5000	0.5480	
1	1.538	1.538	0.000	135100	0.5000	0.5277	
		Average of Peak Amounts =				0.5301	
2	1.433	1.433	0.000	70309	0.5000	0.5500	
2	1.521	1.521	0.000	198105	0.5000	0.5212	
2	1.612	1.612	0.000	121844	0.5000	0.5282	
2	1.655	1.655	0.000	421835	0.5000	0.4875	
		Average of Peak Amounts =				0.5217	
						RPD = 1.58	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
8 PCB-1254							
1	2.813	2.813	0.000	117603	0.5000	0.3740	
1	2.980	2.980	0.000	171259	0.5000	0.4490	
1	3.256	3.256	0.000	242480	0.5000	0.7024	
1	3.447	3.447	0.000	282376	0.5000	0.6827	
1	3.829	3.829	0.000	270647	0.5000	0.5152	
		Average of Peak Amounts =				0.5447	
2	3.001	3.001	0.000	518410	0.5000	0.4919	
2	3.089	3.089	0.000	688582	0.5000	0.4820	
2	3.375	3.375	0.000	526524	0.5000	0.4954	
2	3.457	3.457	0.000	1176374	0.5000	0.4895	
2	4.006	4.006	0.000	779227	0.5000	0.4688	
		Average of Peak Amounts =				0.4855	
						RPD = 11.48	

QC Flag Legend

Processing Flags

Reagents:

21-54w/IS@0.5_00079 Amount Added: 1.00 Units: mL

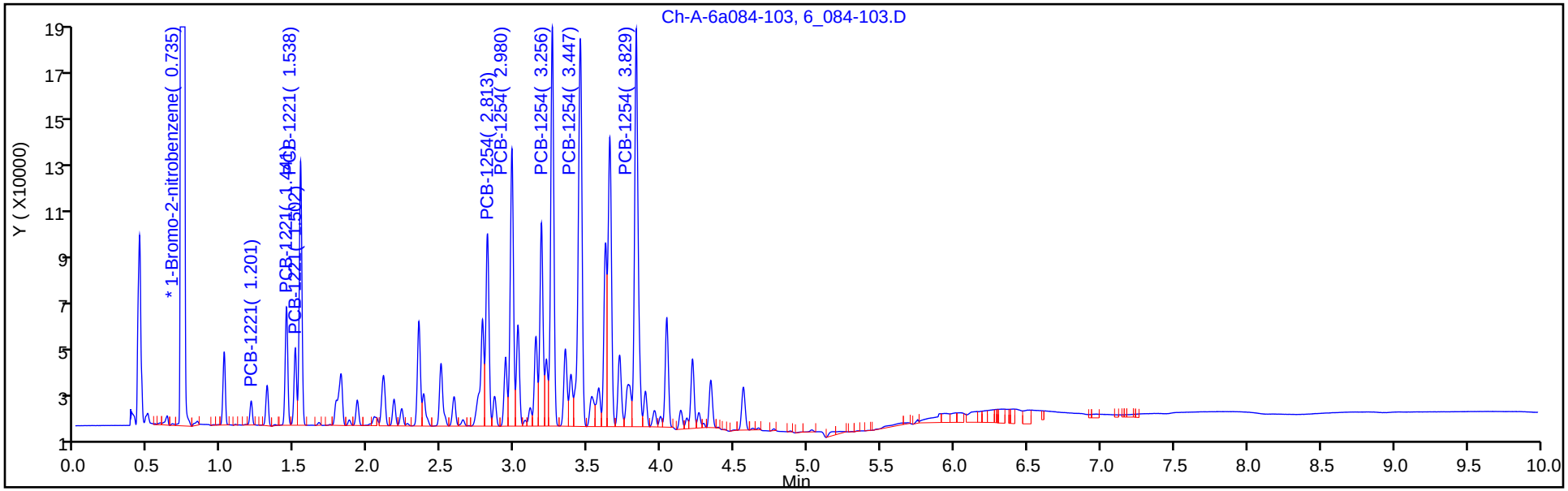
Report Date: 22-Feb-2021 11:13:37 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

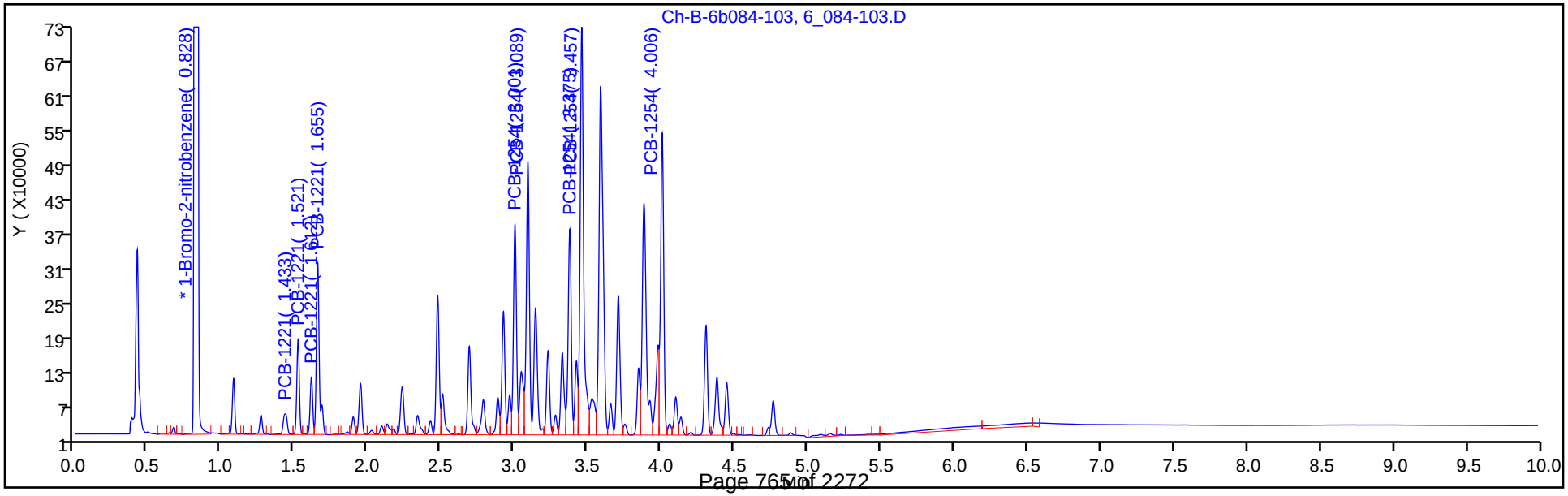
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-103.D

Injection Date:	21-Feb-2021 15:02:58	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 480-570176/7 Calibration Date: 02/21/2021 15:15

Instrument ID: HP6890-6 Calib Start Date: 12/16/2020 18:50

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 12/16/2020 19:15

Lab File ID: 6_084-104.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Lin1		0.0238		0.561	0.501	12.0	20.0
PCB-1232 Peak 2	Lin1		0.0122		0.532	0.501	6.1	20.0
PCB-1232 Peak 3	Lin1		0.0339		0.440	0.501	-12.1	20.0
PCB-1232 Peak 4	Lin1		0.0076		0.339	0.501	-32.3*	20.0
PCB-1232 Peak 5	Lin1		0.0117		0.408	0.501	-18.5	20.0
PCB-1262 Peak 1	Lin1		0.0328		0.714	0.501	42.6*	20.0
PCB-1262 Peak 2	Lin1		0.0590		0.509	0.501	1.5	20.0
PCB-1262 Peak 3	Lin1		0.1204		0.531	0.501	5.9	20.0
PCB-1262 Peak 4	Lin1		0.0431		0.609	0.501	21.5*	20.0
PCB-1262 Peak 5	Lin1		0.0440		0.621	0.501	24.0*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 480-570176/7 Calibration Date: 02/21/2021 15:15

Instrument ID: HP6890-6 Calib Start Date: 12/16/2020 18:50

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 12/16/2020 19:15

Lab File ID: 6_084-104.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	1.54	1.52	1.55
PCB-1232 Peak 2	1.93	1.91	1.94
PCB-1232 Peak 3	2.10	2.09	2.12
PCB-1232 Peak 4	2.59	2.57	2.60
PCB-1232 Peak 5	2.81	2.80	2.83
PCB-1262 Peak 1	3.44	3.42	3.45
PCB-1262 Peak 2	3.96	3.94	3.97
PCB-1262 Peak 3	4.34	4.32	4.35
PCB-1262 Peak 4	4.62	4.61	4.64
PCB-1262 Peak 5	4.66	4.65	4.68

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-104.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 21-Feb-2021 15:15:20 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub5

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 22-Feb-2021 11:16:57 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1630

First Level Reviewer: chumongkolratn Date: 22-Feb-2021 11:16:57

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.736	0.736	0.000	4528805	0.5000	0.5000	
2	0.828	0.828	0.000	13545559	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1232							M
1	1.538	1.538	0.000	108056	0.5010	0.5610	
1	1.926	1.926	0.000	55536	0.5010	0.5317	
1	2.104	2.104	0.000	153679	0.5010	0.4403	
1	2.585	2.585	0.000	34510	0.5010	0.3392	
1	2.810	2.810	0.000	53059	0.5010	0.4081	
		Average of Peak Amounts =				0.4561	
2	1.655	1.655	0.000	334761	0.5010	0.5387	M
2	1.945	1.945	0.000	313773	0.5010	0.5485	M
2	2.232	2.232	0.000	612587	0.5010	0.5307	M
2	2.691	2.691	0.000	274902	0.5010	0.5530	M
2	2.923	2.923	0.000	183426	0.5010	0.4974	M
		Average of Peak Amounts =				0.5336	
						RPD = 15.67	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
10 PCB-1262							M
1	3.439	3.439	0.000	148874	0.5010	0.7142	
1	3.956	3.956	0.000	267943	0.5010	0.5087	
1	4.338	4.338	0.000	546148	0.5010	0.5307	
1	4.623	4.623	0.000	195484	0.5010	0.6087	
1	4.664	4.664	0.000	199588	0.5010	0.6211	
		Average of Peak Amounts =				0.5967	
2	3.600	3.600	0.000	614456	0.5010	0.5103	M
2	3.706	3.706	0.000	541216	0.5010	0.4619	M
2	4.057	4.057	0.000	764226	0.5010	0.4687	
2	4.306	4.306	0.000	848880	0.5010	0.5071	
2	4.765	4.765	0.000	1116551	0.5010	0.4990	
		Average of Peak Amounts =				0.4894	
						RPD = 19.75	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@0.5_00080 Amount Added: 1.00 Units: mL

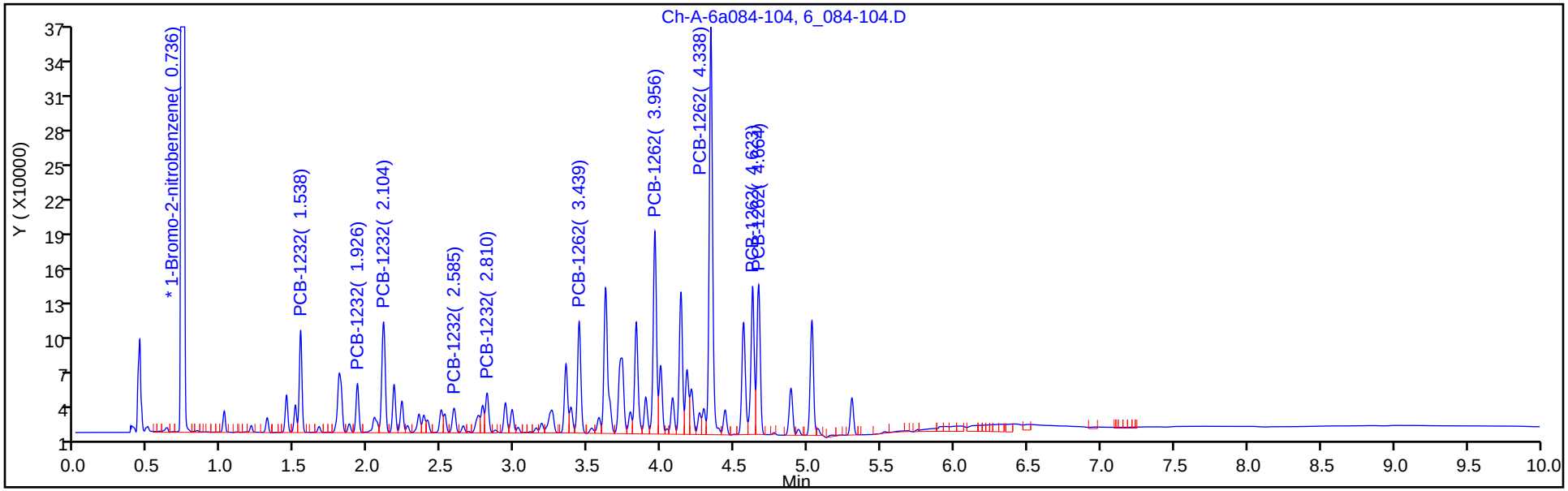
Report Date: 22-Feb-2021 11:16:58 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

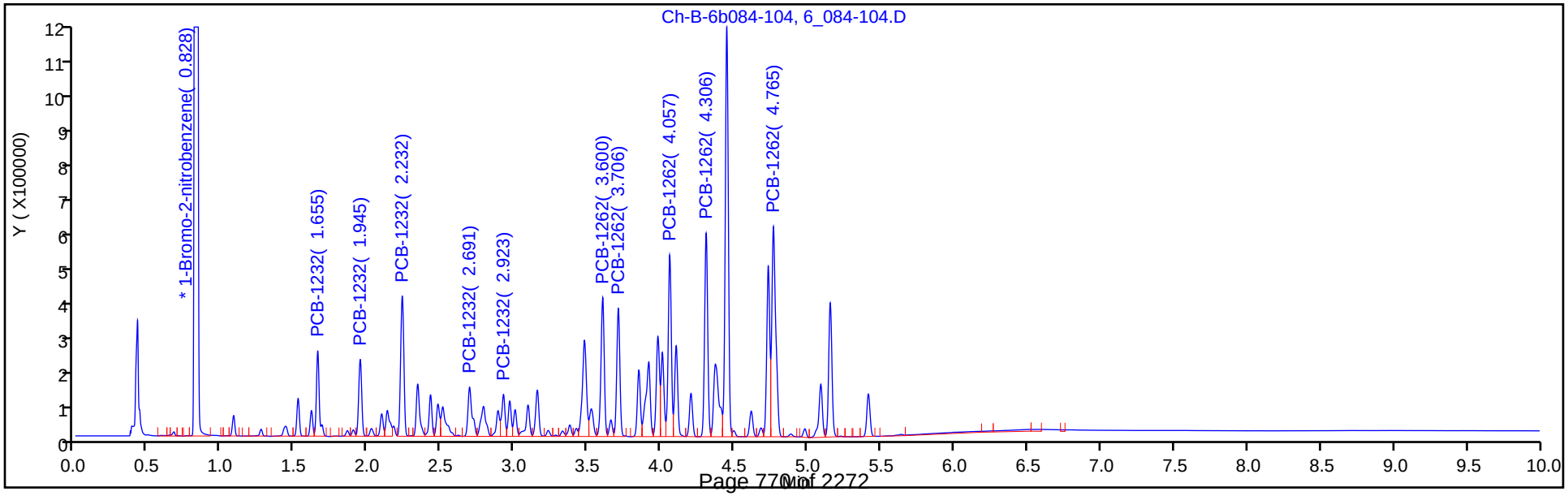
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-104.D

Injection Date:	21-Feb-2021 15:15:20	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 480-570176/7 Calibration Date: 02/21/2021 15:15

Instrument ID: HP6890-6 Calib Start Date: 12/16/2020 18:50

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 12/16/2020 19:15

Lab File ID: 6_084-104.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Lin1		0.0247		0.539	0.501	7.5	20.0
PCB-1232 Peak 2	Lin1		0.0231		0.548	0.501	9.5	20.0
PCB-1232 Peak 3	Lin1		0.0451		0.531	0.501	5.9	20.0
PCB-1232 Peak 4	Lin1		0.0203		0.553	0.501	10.4	20.0
PCB-1232 Peak 5	Lin1		0.0135		0.497	0.501	-0.7	20.0
PCB-1262 Peak 1	Lin1		0.0453		0.510	0.501	1.9	20.0
PCB-1262 Peak 2	Lin1		0.0399		0.462	0.501	-7.8	20.0
PCB-1262 Peak 3	Lin1		0.0563		0.469	0.501	-6.4	20.0
PCB-1262 Peak 4	Lin1		0.0625		0.507	0.501	1.2	20.0
PCB-1262 Peak 5	Lin1		0.0823		0.499	0.501	-0.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 480-570176/7 Calibration Date: 02/21/2021 15:15

Instrument ID: HP6890-6 Calib Start Date: 12/16/2020 18:50

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 12/16/2020 19:15

Lab File ID: 6_084-104.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	1.66	1.64	1.67
PCB-1232 Peak 2	1.95	1.93	1.96
PCB-1232 Peak 3	2.23	2.22	2.25
PCB-1232 Peak 4	2.69	2.68	2.71
PCB-1232 Peak 5	2.92	2.91	2.94
PCB-1262 Peak 1	3.60	3.59	3.62
PCB-1262 Peak 2	3.71	3.69	3.72
PCB-1262 Peak 3	4.06	4.04	4.07
PCB-1262 Peak 4	4.31	4.29	4.32
PCB-1262 Peak 5	4.77	4.75	4.78

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-104.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 21-Feb-2021 15:15:20 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub5

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 22-Feb-2021 11:16:57 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1630

First Level Reviewer: chumongkolratn Date: 22-Feb-2021 11:16:57

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.736	0.736	0.000	4528805	0.5000	0.5000	
2	0.828	0.828	0.000	13545559	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1232							M
1	1.538	1.538	0.000	108056	0.5010	0.5610	
1	1.926	1.926	0.000	55536	0.5010	0.5317	
1	2.104	2.104	0.000	153679	0.5010	0.4403	
1	2.585	2.585	0.000	34510	0.5010	0.3392	
1	2.810	2.810	0.000	53059	0.5010	0.4081	
		Average of Peak Amounts =				0.4561	
2	1.655	1.655	0.000	334761	0.5010	0.5387	M
2	1.945	1.945	0.000	313773	0.5010	0.5485	M
2	2.232	2.232	0.000	612587	0.5010	0.5307	M
2	2.691	2.691	0.000	274902	0.5010	0.5530	M
2	2.923	2.923	0.000	183426	0.5010	0.4974	M
		Average of Peak Amounts =				0.5336	
						RPD = 15.67	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
10 PCB-1262							M
1	3.439	3.439	0.000	148874	0.5010	0.7142	
1	3.956	3.956	0.000	267943	0.5010	0.5087	
1	4.338	4.338	0.000	546148	0.5010	0.5307	
1	4.623	4.623	0.000	195484	0.5010	0.6087	
1	4.664	4.664	0.000	199588	0.5010	0.6211	
		Average of Peak Amounts =				0.5967	
2	3.600	3.600	0.000	614456	0.5010	0.5103	M
2	3.706	3.706	0.000	541216	0.5010	0.4619	M
2	4.057	4.057	0.000	764226	0.5010	0.4687	
2	4.306	4.306	0.000	848880	0.5010	0.5071	
2	4.765	4.765	0.000	1116551	0.5010	0.4990	
		Average of Peak Amounts =				0.4894	
						RPD = 19.75	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@0.5_00080 Amount Added: 1.00 Units: mL

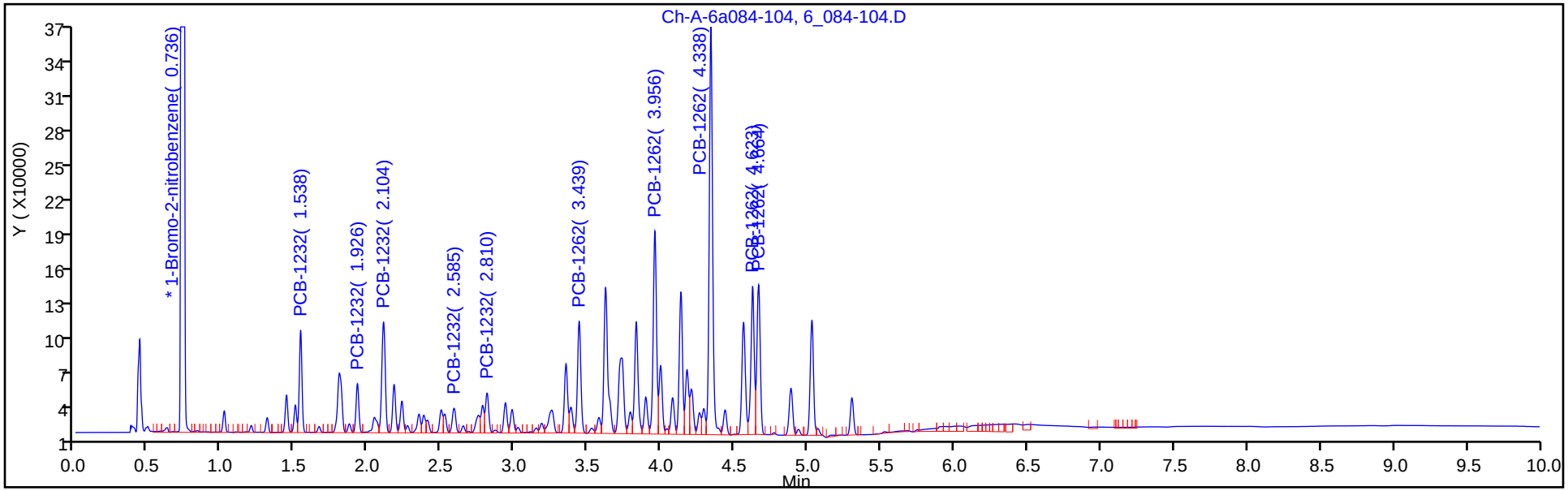
Report Date: 22-Feb-2021 11:16:58 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

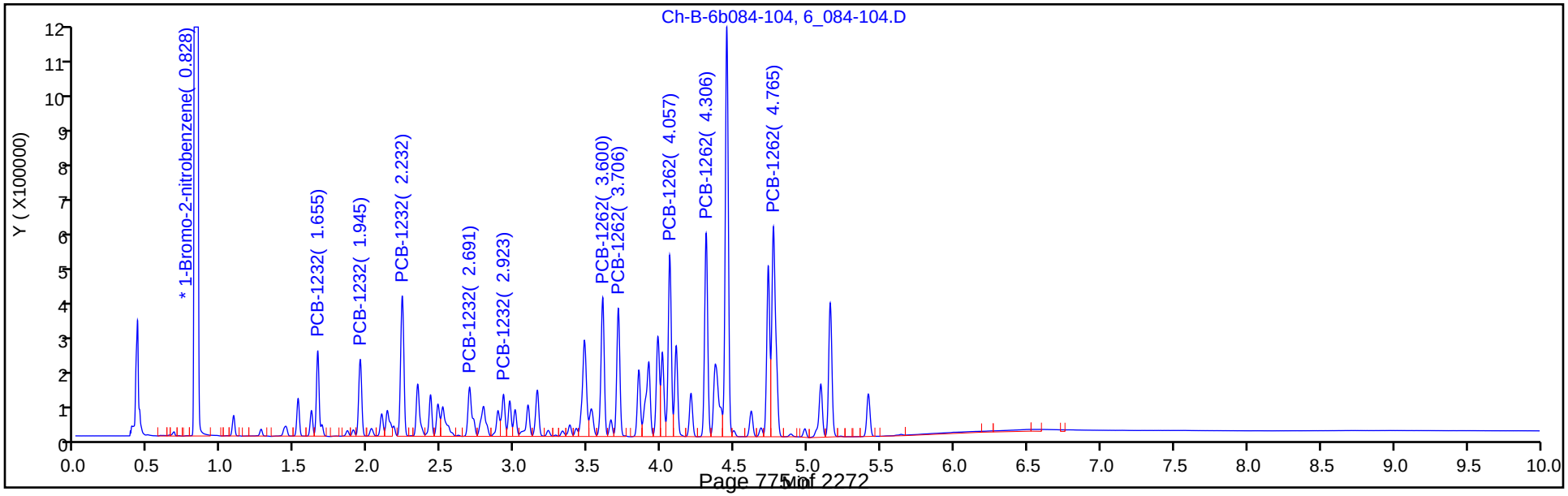
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-104.D

Injection Date:	21-Feb-2021 15:15:20	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Report Date: 22-Feb-2021 11:16:58 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-104.D

Injection Date: 21-Feb-2021 15:15:20 Instrument ID: HP6890-6

Lims ID: CCV

Client ID:

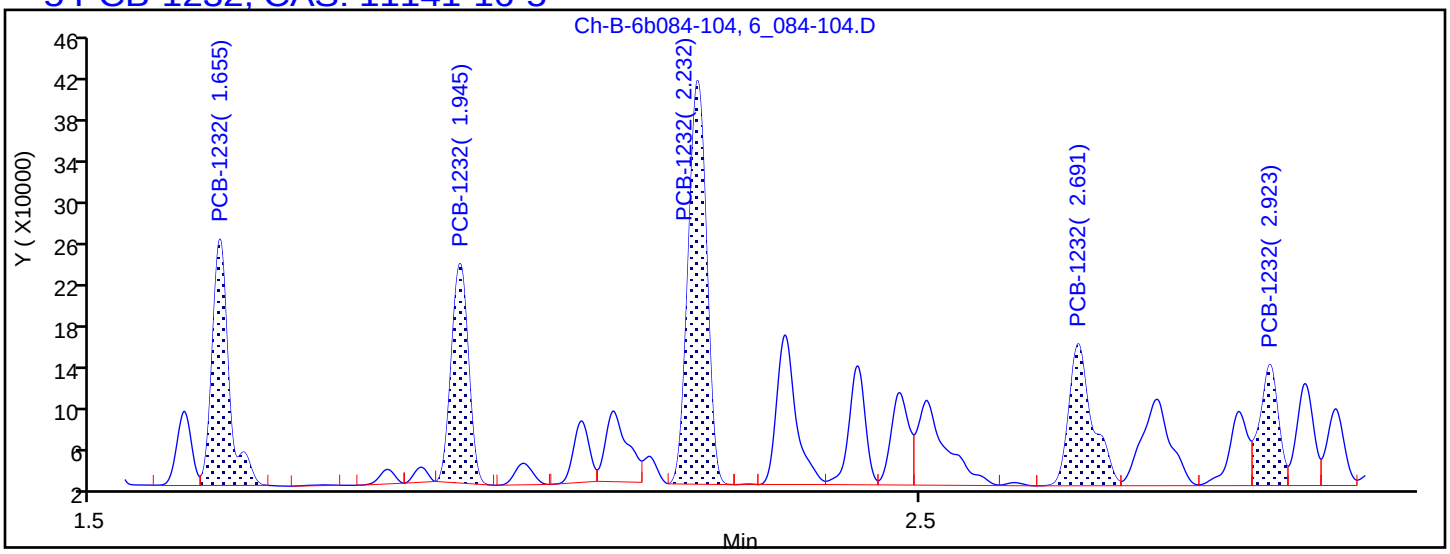
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

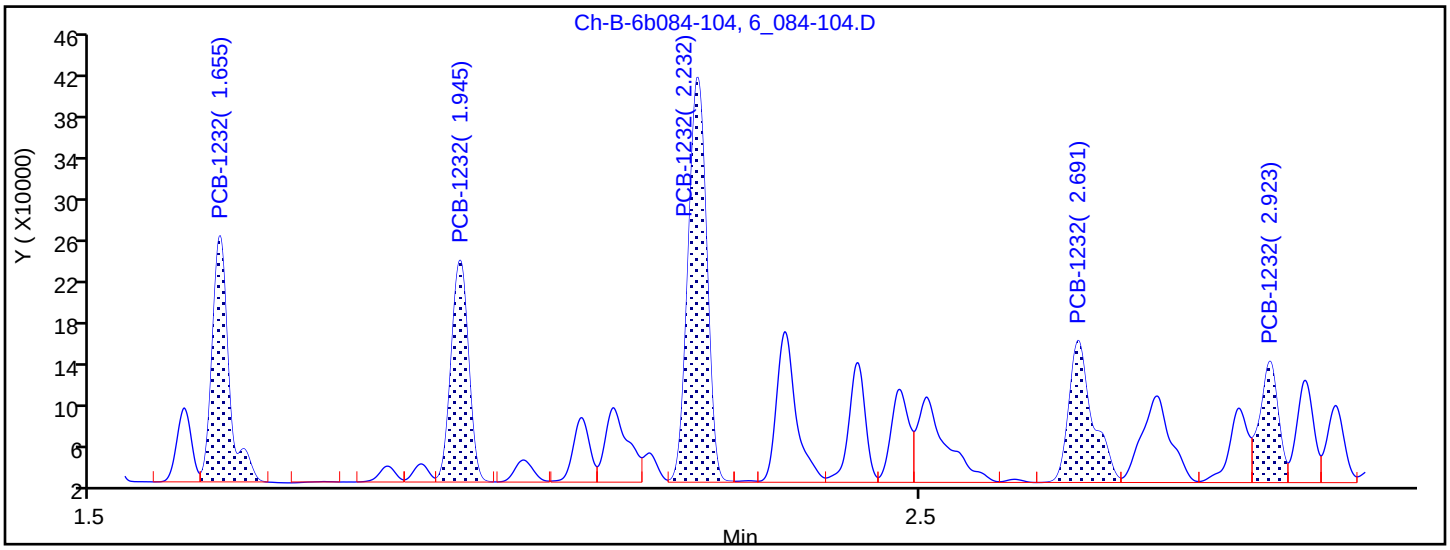
Column: ZB-35 (0.53 mm) Detector Ch-B-7b136

5 PCB-1232, CAS: 11141-16-5



Processing Integration Results

1.655	Response = 335859
1.945	Response = 305573
2.232	Response = 606704
2.691	Response = 275066
2.923	Response = 182645



Manual Integration Results

1.655	Response = 334761	M
1.945	Response = 313773	M
2.232	Response = 612587	M
2.691	Response = 274902	M
2.923	Response = 183426	M

Reviewer: clarkda, 21-Feb-2021 15:49:49

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 22-Feb-2021 11:16:58 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-104.D

Injection Date: 21-Feb-2021 15:15:20 Instrument ID: HP6890-6

Lims ID: CCV

Client ID:

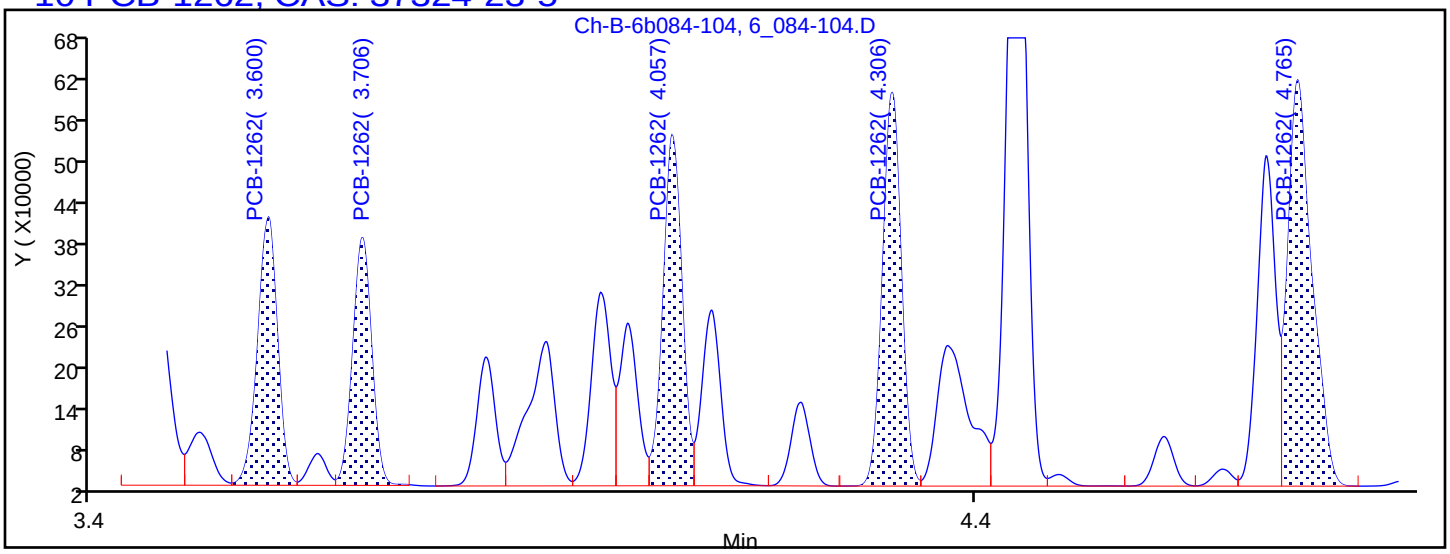
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

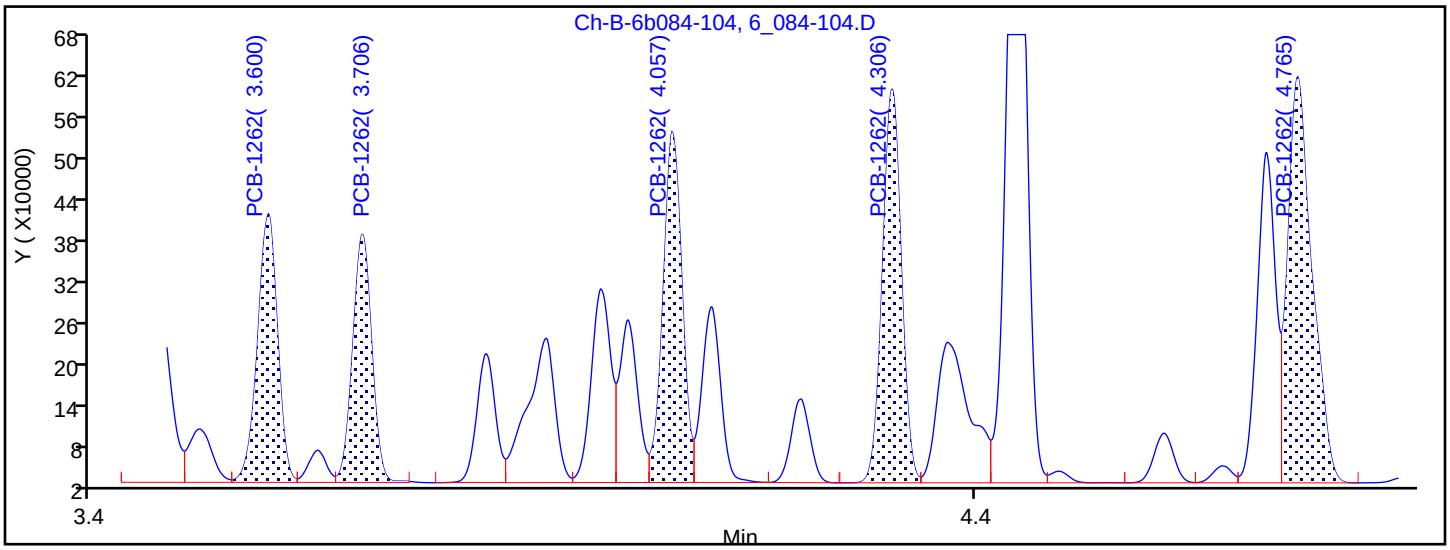
Column: ZB-35 (0.53 mm) Detector Ch-B-7b136

10 PCB-1262, CAS: 37324-23-5



Processing Integration Results

3.600	Response = 611980
3.706	Response = 539009
4.057	Response = 764226
4.306	Response = 848880
4.765	Response = 1116551



Manual Integration Results

3.600	Response = 614456	M
3.706	Response = 541216	M
4.057	Response = 764226	
4.306	Response = 848880	
4.765	Response = 1116551	

Reviewer: clarkda, 21-Feb-2021 15:49:49

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 480-570176/8 Calibration Date: 02/21/2021 15:27

Instrument ID: HP6890-6 Calib Start Date: 12/16/2020 19:40

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 12/16/2020 20:05

Lab File ID: 6_084-105.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Lin1		0.0621		0.445	0.500	-11.1	20.0
PCB-1242 Peak 2	Lin1		0.0148		0.401	0.500	-19.8	20.0
PCB-1242 Peak 3	Lin1		0.0129		0.334	0.500	-33.2*	20.0
PCB-1242 Peak 4	Lin1		0.0177		0.410	0.500	-18.0	20.0
PCB-1242 Peak 5	Lin1		0.0171		0.460	0.500	-7.9	20.0
PCB-1268 Peak 1	Lin1		0.1300		0.616	0.500	23.3*	20.0
PCB-1268 Peak 2	Lin1		0.1177		0.619	0.500	23.8*	20.0
PCB-1268 Peak 3	Lin1		0.0901		0.680	0.500	35.9*	20.0
PCB-1268 Peak 4	Lin1		0.2691		0.719	0.500	43.9*	20.0
PCB-1268 Peak 5	Lin1		0.0620		0.857	0.500	71.5*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 480-570176/8 Calibration Date: 02/21/2021 15:27

Instrument ID: HP6890-6 Calib Start Date: 12/16/2020 19:40

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 12/16/2020 20:05

Lab File ID: 6_084-105.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	2.10	2.09	2.12
PCB-1242 Peak 2	2.23	2.21	2.24
PCB-1242 Peak 3	2.50	2.48	2.51
PCB-1242 Peak 4	2.81	2.79	2.82
PCB-1242 Peak 5	2.94	2.92	2.95
PCB-1268 Peak 1	4.62	4.61	4.64
PCB-1268 Peak 2	4.66	4.65	4.68
PCB-1268 Peak 3	4.88	4.86	4.89
PCB-1268 Peak 4	5.30	5.29	5.32
PCB-1268 Peak 5	5.52	5.51	5.54

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-105.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 21-Feb-2021 15:27:45 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub6

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 22-Feb-2021 11:17:59 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1630

First Level Reviewer: chumongkolratn Date: 22-Feb-2021 11:17:59

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.735	0.735	0.000	4307128	0.5000	0.5000	
2	0.828	0.828	0.000	12932143	0.5000	0.5000	
						RPD = 0.00	
4 PCB-1242							
1	2.103	2.103	0.000	267527	0.5000	0.4446	
1	2.228	2.228	0.000	63782	0.5000	0.4010	
1	2.497	2.497	0.000	55667	0.5000	0.3339	
1	2.808	2.808	0.000	76183	0.5000	0.4098	
1	2.935	2.935	0.000	73573	0.5000	0.4604	
		Average of Peak Amounts =				0.4099	
2	1.654	1.654	0.000	231908	0.5000	0.5276	
2	1.943	1.943	0.000	487074	0.5000	0.5366	
2	2.231	2.231	0.000	1057560	0.5000	0.5308	
2	2.690	2.690	0.000	510458	0.5000	0.5397	
2	2.923	2.923	0.000	359452	0.5000	0.5013	
		Average of Peak Amounts =				0.5272	
						RPD = 25.03	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1268							M
1	4.623	4.623	0.000	560124	0.5000	0.6164	
1	4.662	4.662	0.000	507088	0.5000	0.6188	
1	4.876	4.876	0.000	388097	0.5000	0.6797	
1	5.302	5.302	0.000	1158886	0.5000	0.7194	
1	5.523	5.523	0.000	267115	0.5000	0.8575	
		Average of Peak Amounts =				0.6983	
2	4.728	4.728	0.000	1763028	0.5000	0.5108	
2	4.765	4.765	0.000	1665534	0.5000	0.5144	
2	4.982	4.982	0.000	1216583	0.5000	0.4994	M
2	5.413	5.413	0.000	4352324	0.5000	0.5144	
2	5.636	5.636	0.000	827601	0.5000	0.4756	
		Average of Peak Amounts =				0.5029	
						RPD = 32.53	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

42-68w/IS@0.5_00082 Amount Added: 1.00 Units: mL

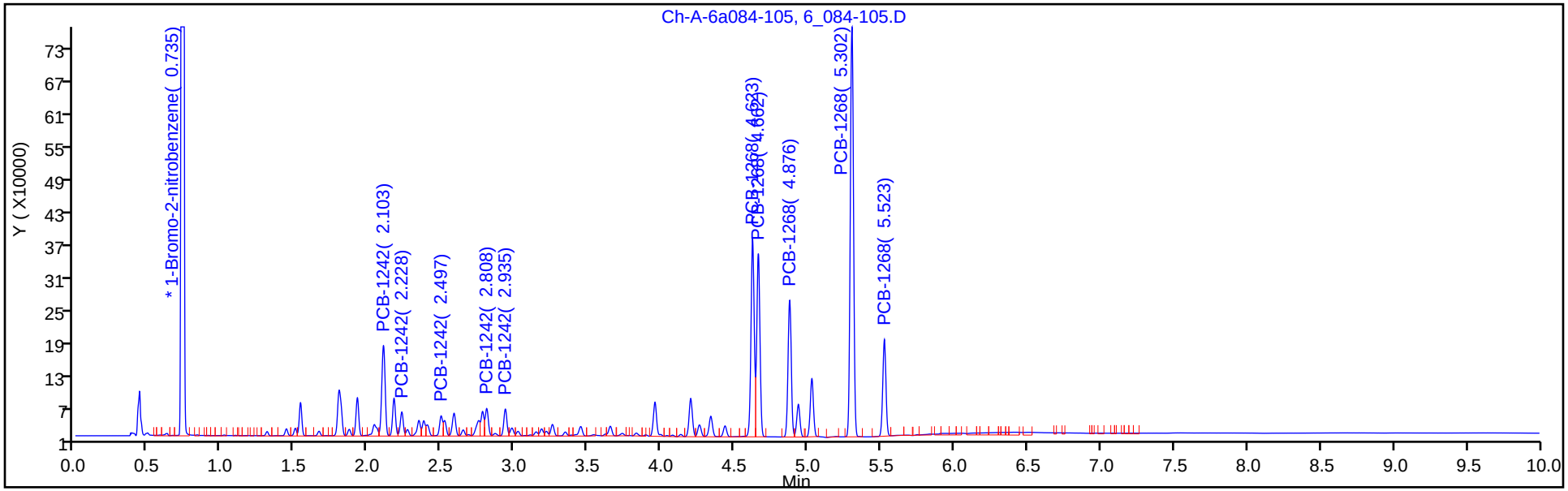
Report Date: 22-Feb-2021 11:17:59 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

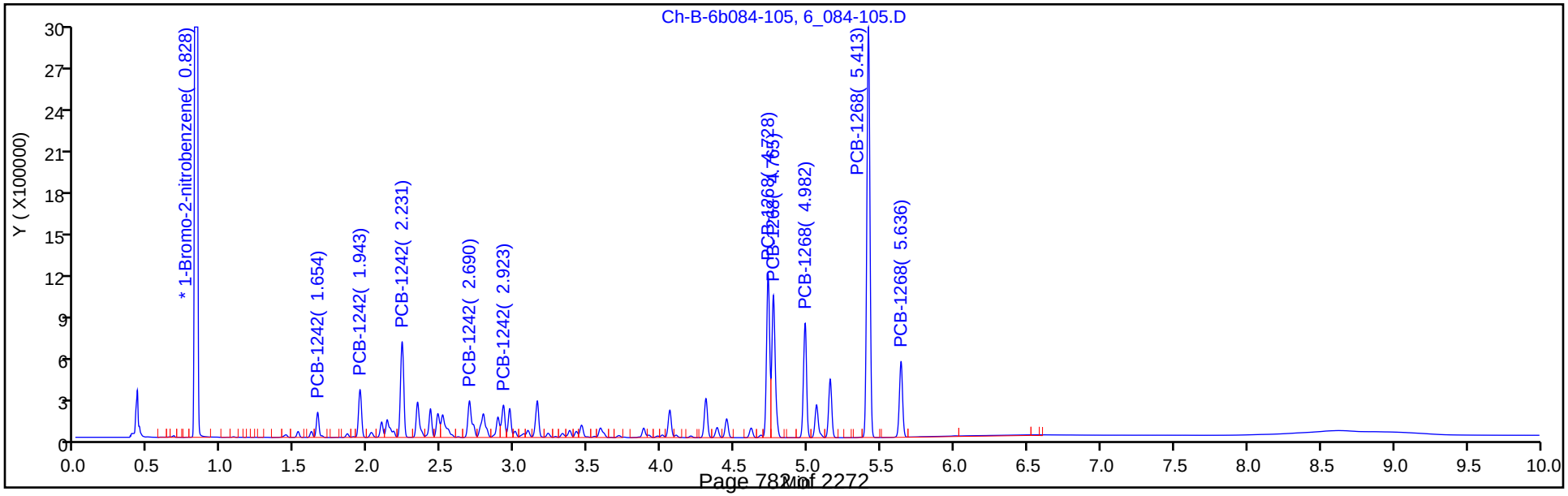
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-105.D

Injection Date:	21-Feb-2021 15:27:45	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 480-570176/8 Calibration Date: 02/21/2021 15:27

Instrument ID: HP6890-6 Calib Start Date: 12/16/2020 19:40

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 12/16/2020 20:05

Lab File ID: 6_084-105.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Lin2		0.0179		0.528	0.500	5.5	20.0
PCB-1242 Peak 2	Lin2		0.0377		0.537	0.500	7.3	20.0
PCB-1242 Peak 3	Lin2		0.0818		0.531	0.500	6.2	20.0
PCB-1242 Peak 4	Lin2		0.0395		0.540	0.500	7.9	20.0
PCB-1242 Peak 5	Lin2		0.0278		0.501	0.500	0.3	20.0
PCB-1268 Peak 1	Lin1		0.1363		0.511	0.500	2.2	20.0
PCB-1268 Peak 2	Lin1		0.1288		0.514	0.500	2.9	20.0
PCB-1268 Peak 3	Lin1		0.0941		0.499	0.500	-0.1	20.0
PCB-1268 Peak 4	Lin1		0.3366		0.514	0.500	2.9	20.0
PCB-1268 Peak 5	Lin1		0.0640		0.476	0.500	-4.9	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 480-570176/8 Calibration Date: 02/21/2021 15:27

Instrument ID: HP6890-6 Calib Start Date: 12/16/2020 19:40

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 12/16/2020 20:05

Lab File ID: 6_084-105.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	1.65	1.64	1.67
PCB-1242 Peak 2	1.94	1.93	1.96
PCB-1242 Peak 3	2.23	2.22	2.25
PCB-1242 Peak 4	2.69	2.68	2.71
PCB-1242 Peak 5	2.92	2.91	2.94
PCB-1268 Peak 1	4.73	4.71	4.74
PCB-1268 Peak 2	4.77	4.75	4.78
PCB-1268 Peak 3	4.98	4.97	5.00
PCB-1268 Peak 4	5.41	5.40	5.43
PCB-1268 Peak 5	5.64	5.62	5.65

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-105.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 21-Feb-2021 15:27:45 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub6

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 22-Feb-2021 11:17:59 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1630

First Level Reviewer: chumongkolratn Date: 22-Feb-2021 11:17:59

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.735	0.735	0.000	4307128	0.5000	0.5000	
2	0.828	0.828	0.000	12932143	0.5000	0.5000	
						RPD = 0.00	
4 PCB-1242							
1	2.103	2.103	0.000	267527	0.5000	0.4446	
1	2.228	2.228	0.000	63782	0.5000	0.4010	
1	2.497	2.497	0.000	55667	0.5000	0.3339	
1	2.808	2.808	0.000	76183	0.5000	0.4098	
1	2.935	2.935	0.000	73573	0.5000	0.4604	
		Average of Peak Amounts =				0.4099	
2	1.654	1.654	0.000	231908	0.5000	0.5276	
2	1.943	1.943	0.000	487074	0.5000	0.5366	
2	2.231	2.231	0.000	1057560	0.5000	0.5308	
2	2.690	2.690	0.000	510458	0.5000	0.5397	
2	2.923	2.923	0.000	359452	0.5000	0.5013	
		Average of Peak Amounts =				0.5272	
						RPD = 25.03	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1268							M
1	4.623	4.623	0.000	560124	0.5000	0.6164	
1	4.662	4.662	0.000	507088	0.5000	0.6188	
1	4.876	4.876	0.000	388097	0.5000	0.6797	
1	5.302	5.302	0.000	1158886	0.5000	0.7194	
1	5.523	5.523	0.000	267115	0.5000	0.8575	
		Average of Peak Amounts =				0.6983	
2	4.728	4.728	0.000	1763028	0.5000	0.5108	
2	4.765	4.765	0.000	1665534	0.5000	0.5144	
2	4.982	4.982	0.000	1216583	0.5000	0.4994	M
2	5.413	5.413	0.000	4352324	0.5000	0.5144	
2	5.636	5.636	0.000	827601	0.5000	0.4756	
		Average of Peak Amounts =				0.5029	
						RPD = 32.53	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

42-68w/IS@0.5_00082 Amount Added: 1.00 Units: mL

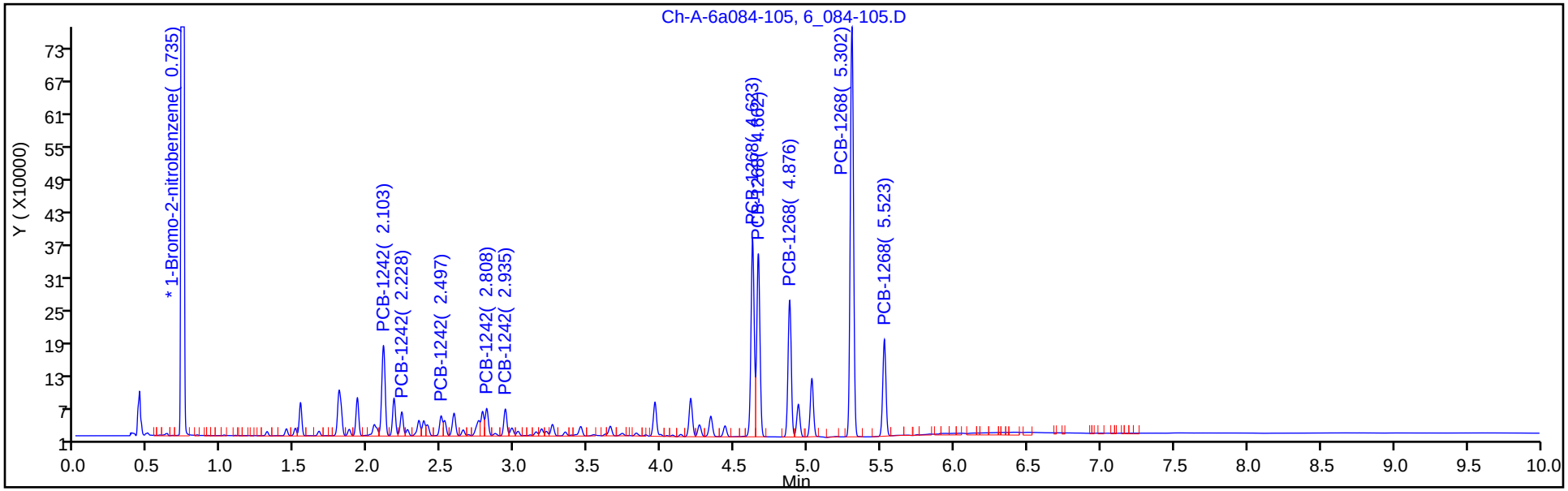
Report Date: 22-Feb-2021 11:18:00 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

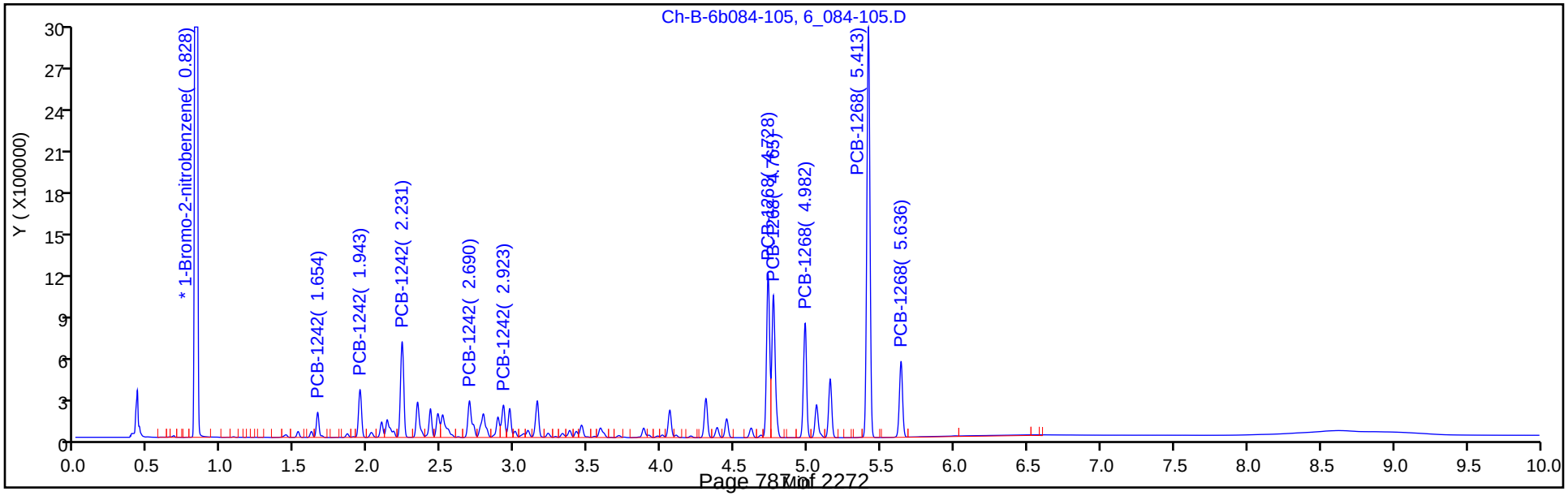
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-105.D

Injection Date:	21-Feb-2021 15:27:45	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Report Date: 22-Feb-2021 11:18:00 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-105.D

Injection Date: 21-Feb-2021 15:27:45 Instrument ID: HP6890-6

Lims ID: CCV

Client ID:

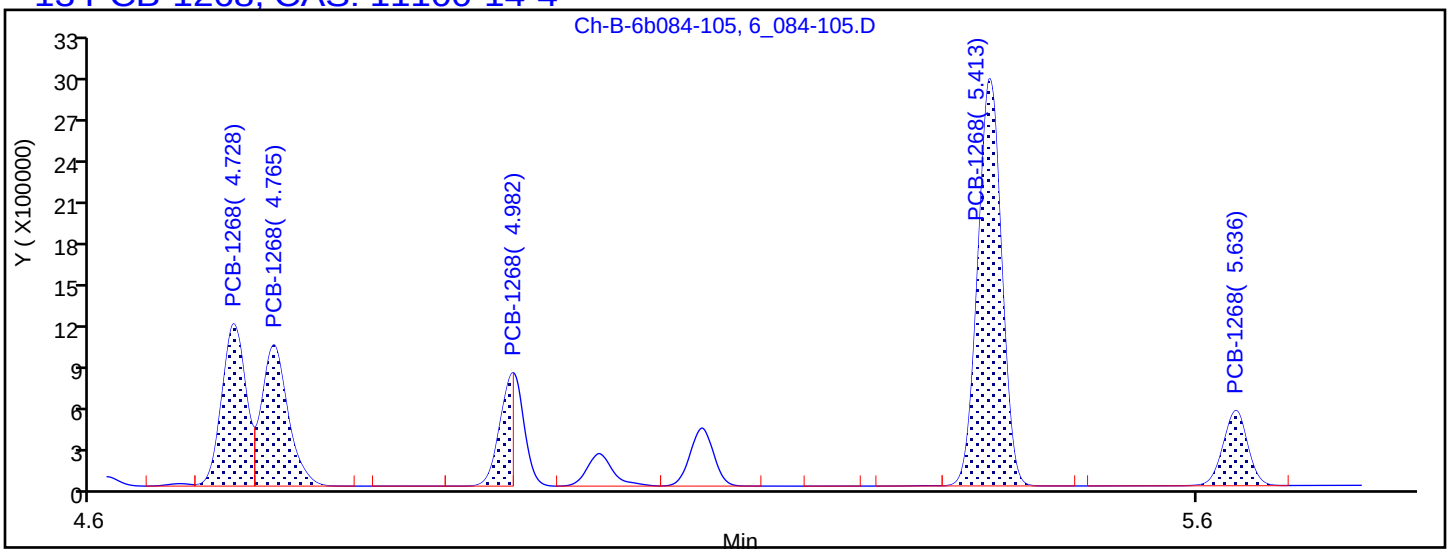
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

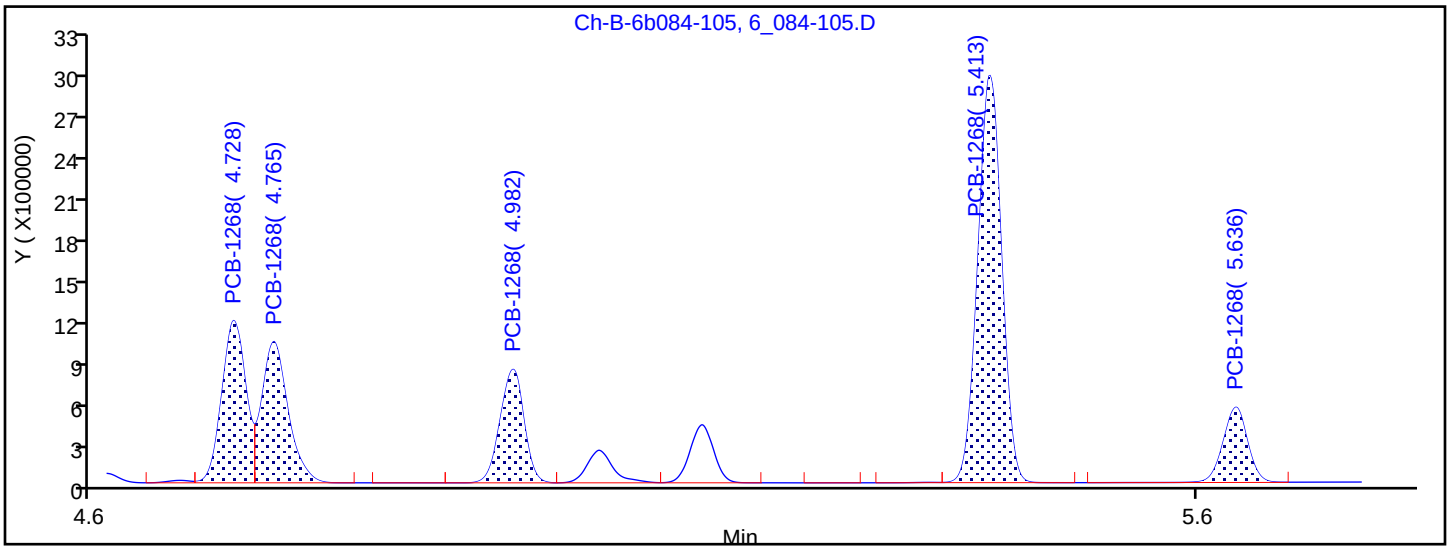
Column: ZB-35 (0.53 mm) Detector Ch-B-7b136

13 PCB-1268, CAS: 11100-14-4



Processing Integration Results

4.728	Response = 1763028
4.765	Response = 1665534
4.982	Response = 661556
5.413	Response = 4352324
5.636	Response = 827601



Manual Integration Results

4.728	Response = 1763028	
4.765	Response = 1665534	
4.982	Response = 1216583	M
5.413	Response = 4352324	
5.636	Response = 827601	

Reviewer: clarkda, 21-Feb-2021 15:51:35

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 480-570176/9 Calibration Date: 02/21/2021 15:40

Instrument ID: HP6890-6 Calib Start Date: 12/16/2020 20:29

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 12/16/2020 20:54

Lab File ID: 6_084-106.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Lin1		0.0406		0.459	0.500	-8.1	20.0
PCB-1248 Peak 2	Lin1		0.0189		0.346	0.500	-30.7*	20.0
PCB-1248 Peak 3	Lin1		0.0244		0.338	0.500	-32.3*	20.0
PCB-1248 Peak 4	Lin1		0.0287		0.393	0.500	-21.4*	20.0
PCB-1248 Peak 5	Lin1		0.0283		0.465	0.500	-6.9	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 480-570176/9 Calibration Date: 02/21/2021 15:40

Instrument ID: HP6890-6 Calib Start Date: 12/16/2020 20:29

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 12/16/2020 20:54

Lab File ID: 6_084-106.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	2.10	2.09	2.12
PCB-1248 Peak 2	2.35	2.33	2.36
PCB-1248 Peak 3	2.59	2.57	2.60
PCB-1248 Peak 4	2.78	2.77	2.80
PCB-1248 Peak 5	2.94	2.92	2.95

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-106.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 21-Feb-2021 15:40:08 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub7

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 22-Feb-2021 11:19:34 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1630

First Level Reviewer: chumongkolratn Date: 22-Feb-2021 11:19:34

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.736	0.736	0.000	4216165	0.5000	0.5000	
2	0.828	0.828	0.000	12667726	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1248							M
1	2.103	2.103	0.000	171264	0.5000	0.4594	
1	2.346	2.346	0.000	79599	0.5000	0.3464	
1	2.586	2.586	0.000	102821	0.5000	0.3384	
1	2.781	2.781	0.000	121082	0.5000	0.3932	
1	2.936	2.936	0.000	119238	0.5000	0.4653	
		Average of Peak Amounts =				0.4006	
2	2.231	2.231	0.000	689723	0.5000	0.5653	M
2	2.689	2.689	0.000	726100	0.5000	0.5767	M
2	3.153	3.153	0.000	694060	0.5000	0.5518	M
2	3.457	3.457	0.000	376129	0.5000	0.5540	M
2	3.587	3.587	0.000	360316	0.5000	0.5507	M
		Average of Peak Amounts =				0.5597	
						RPD = 33.15	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

1248w/IS@ 0.5_00079 Amount Added: 1.00 Units: mL

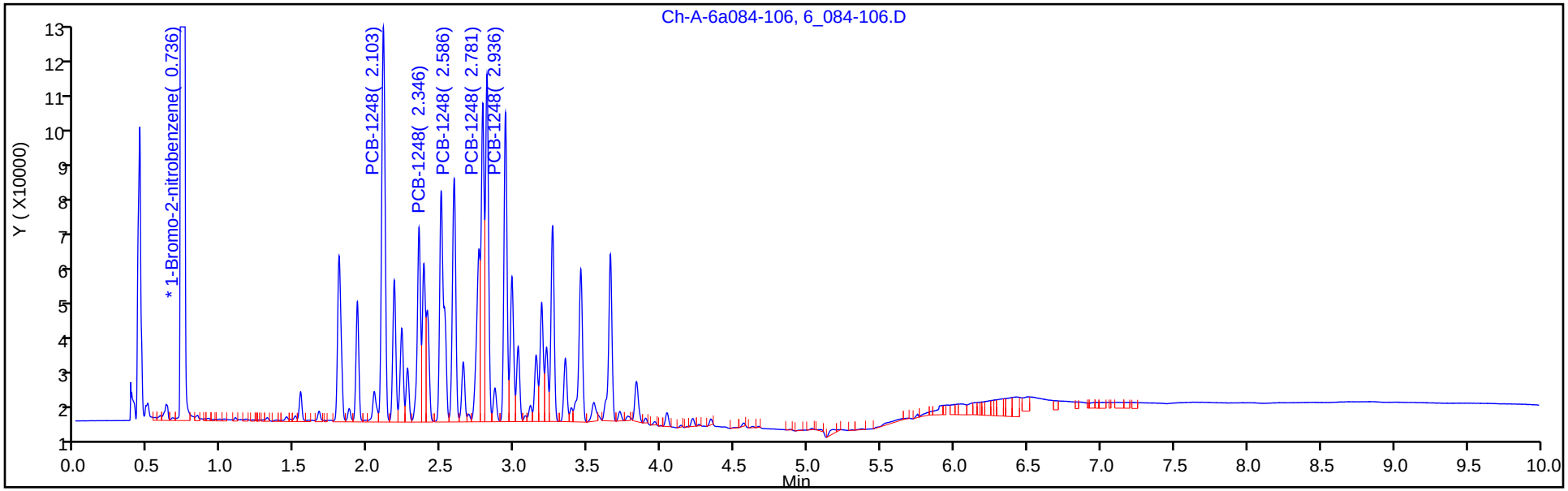
Report Date: 22-Feb-2021 11:19:34 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

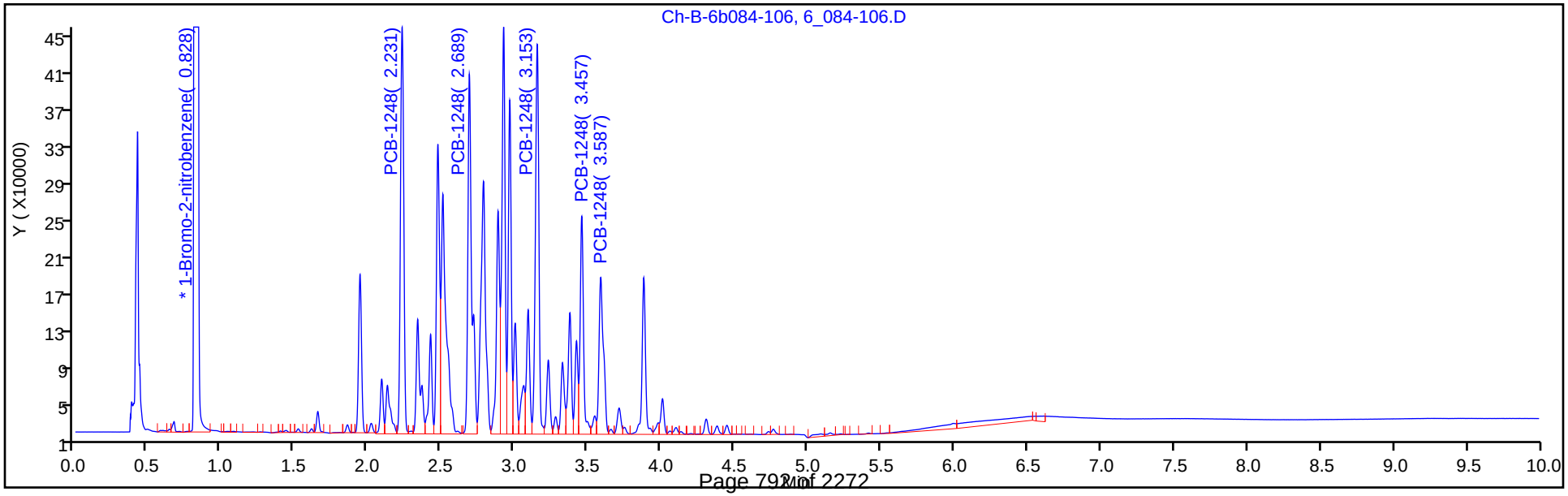
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-106.D

Injection Date:	21-Feb-2021 15:40:08	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 480-570176/9 Calibration Date: 02/21/2021 15:40

Instrument ID: HP6890-6 Calib Start Date: 12/16/2020 20:29

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 12/16/2020 20:54

Lab File ID: 6_084-106.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Lin1		0.0544		0.565	0.500	13.1	20.0
PCB-1248 Peak 2	Lin1		0.0573		0.577	0.500	15.3	20.0
PCB-1248 Peak 3	Lin1		0.0548		0.552	0.500	10.4	20.0
PCB-1248 Peak 4	Lin1		0.0297		0.554	0.500	10.8	20.0
PCB-1248 Peak 5	Lin1		0.0284		0.551	0.500	10.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 480-570176/9 Calibration Date: 02/21/2021 15:40

Instrument ID: HP6890-6 Calib Start Date: 12/16/2020 20:29

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 12/16/2020 20:54

Lab File ID: 6_084-106.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	2.23	2.22	2.25
PCB-1248 Peak 2	2.69	2.67	2.70
PCB-1248 Peak 3	3.15	3.14	3.17
PCB-1248 Peak 4	3.46	3.44	3.47
PCB-1248 Peak 5	3.59	3.57	3.60

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-106.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 21-Feb-2021 15:40:08 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub7

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 22-Feb-2021 11:19:34 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1630

First Level Reviewer: chumongkolratn Date: 22-Feb-2021 11:19:34

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.736	0.736	0.000	4216165	0.5000	0.5000	
2	0.828	0.828	0.000	12667726	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1248							M
1	2.103	2.103	0.000	171264	0.5000	0.4594	
1	2.346	2.346	0.000	79599	0.5000	0.3464	
1	2.586	2.586	0.000	102821	0.5000	0.3384	
1	2.781	2.781	0.000	121082	0.5000	0.3932	
1	2.936	2.936	0.000	119238	0.5000	0.4653	
		Average of Peak Amounts =				0.4006	
2	2.231	2.231	0.000	689723	0.5000	0.5653	M
2	2.689	2.689	0.000	726100	0.5000	0.5767	M
2	3.153	3.153	0.000	694060	0.5000	0.5518	M
2	3.457	3.457	0.000	376129	0.5000	0.5540	M
2	3.587	3.587	0.000	360316	0.5000	0.5507	M
		Average of Peak Amounts =				0.5597	
						RPD = 33.15	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

1248w/IS@ 0.5_00079 Amount Added: 1.00 Units: mL

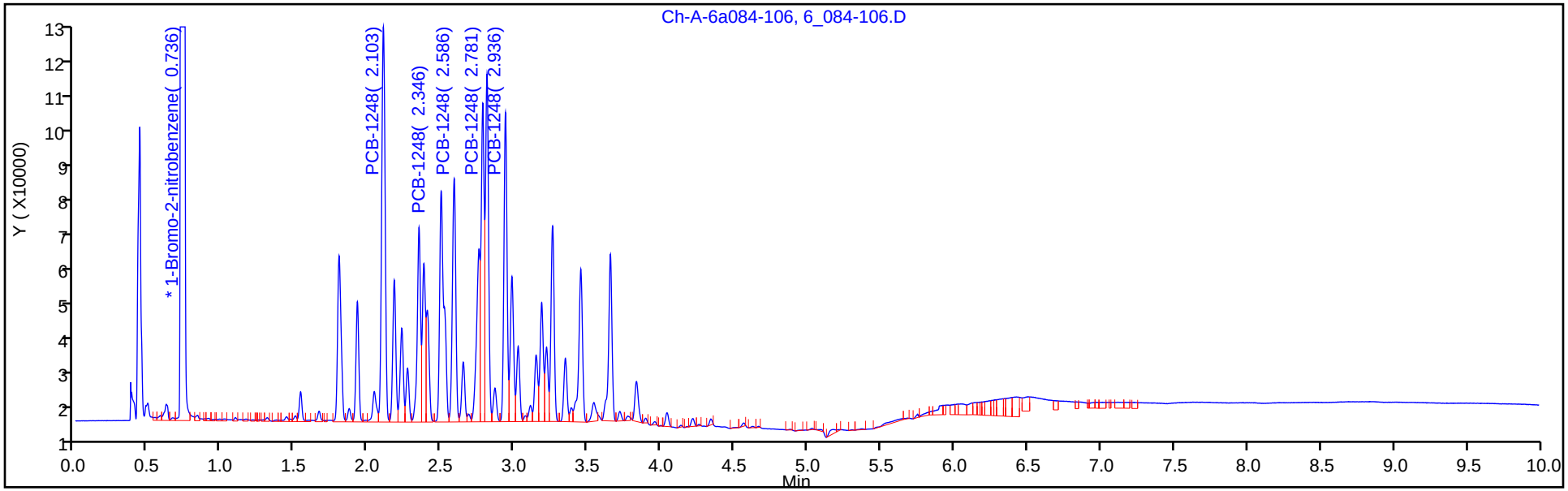
Report Date: 22-Feb-2021 11:19:35 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

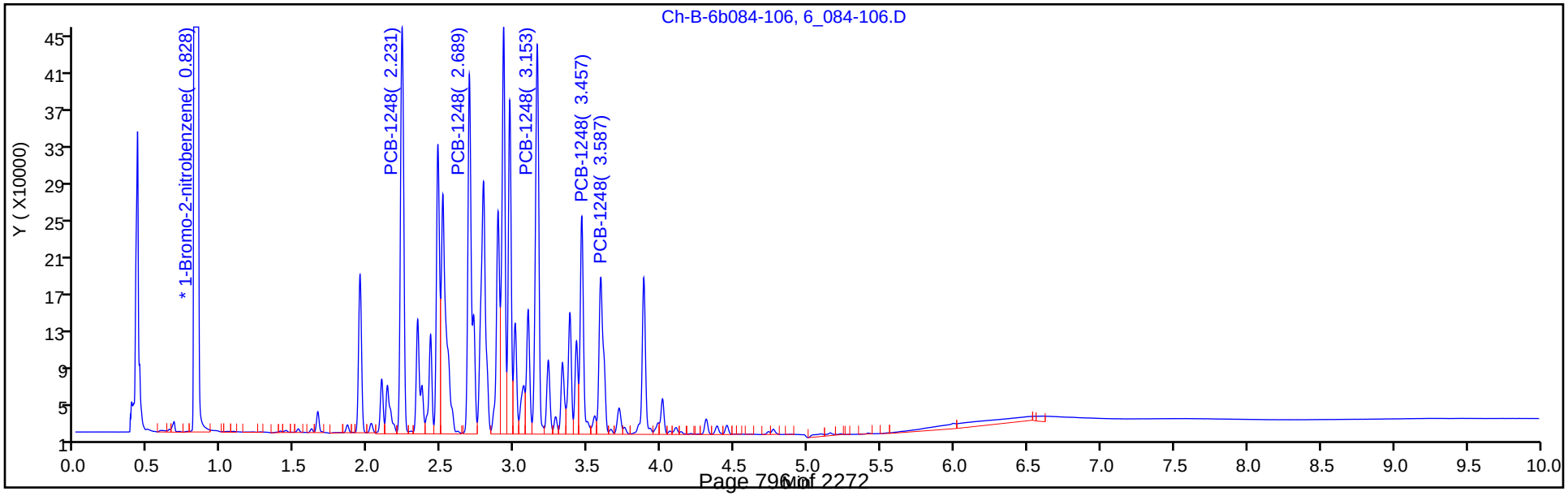
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-106.D

Injection Date:	21-Feb-2021 15:40:08	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Report Date: 22-Feb-2021 11:19:35 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-106.D

Injection Date: 21-Feb-2021 15:40:08 Instrument ID: HP6890-6

Lims ID: CCV

Client ID:

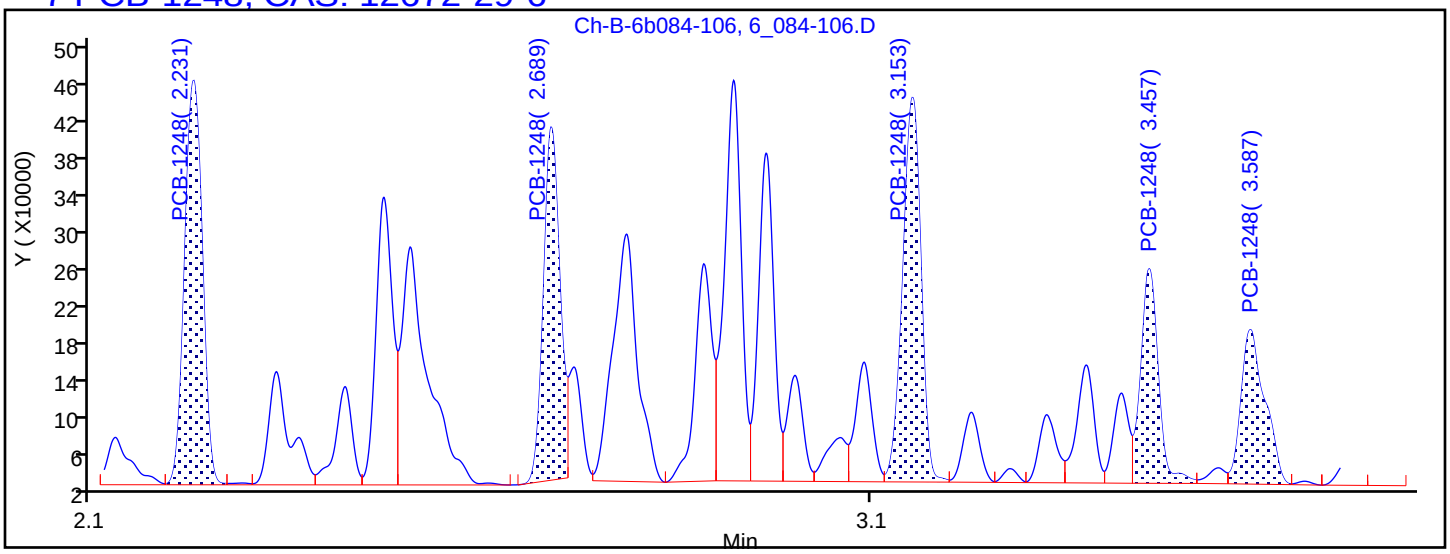
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 9

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

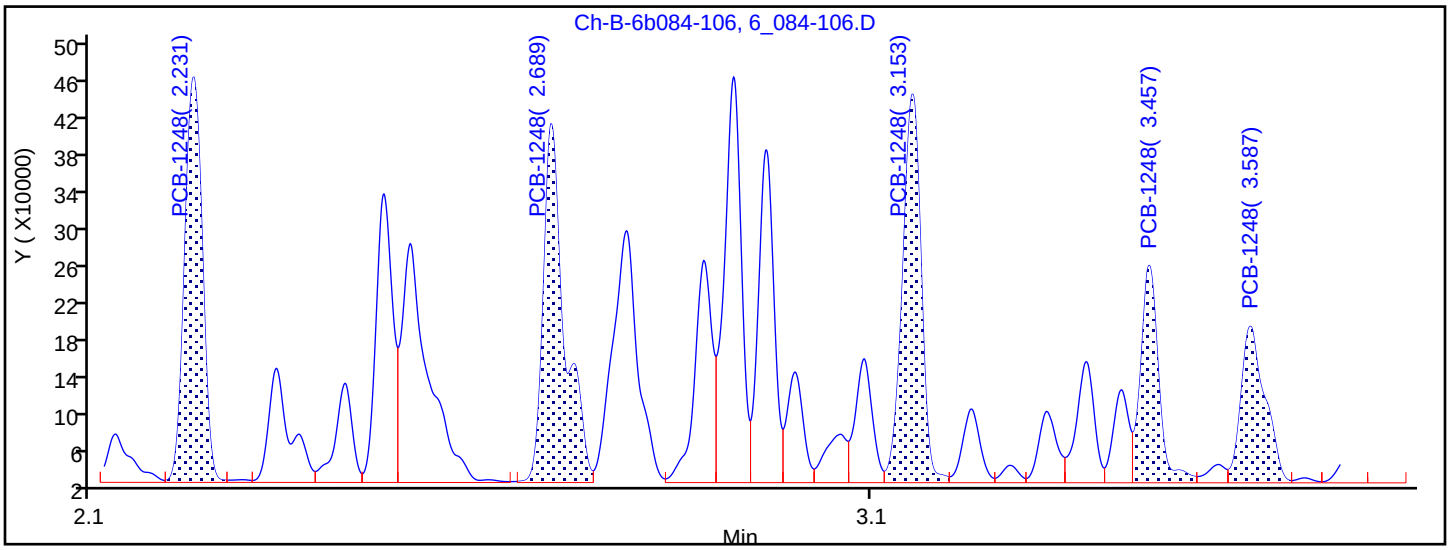
Column: ZB-35 (0.53 mm) Detector Ch-B-7b136

7 PCB-1248, CAS: 12672-29-6



Processing Integration Results

2.231	Response = 684975
2.689	Response = 557295
3.153	Response = 672500
3.457	Response = 361519
3.587	Response = 350205



Manual Integration Results

2.231	Response = 689723	M
2.689	Response = 726100	M
3.153	Response = 694060	M
3.457	Response = 376129	M
3.587	Response = 360316	M

Reviewer: clarkda, 21-Feb-2021 15:52:35

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCVIS 480-569989/5 Calibration Date: 02/18/2021 13:48

Instrument ID: HP6890-7 Calib Start Date: 07/23/2020 16:32

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 07/23/2020 18:07

Lab File ID: 7_89-148.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.0215		0.439	0.500	-12.1	20.0
PCB-1016 Peak 2	Lin1		0.0702		0.465	0.500	-7.1	20.0
PCB-1016 Peak 3	Lin1		0.0389		0.456	0.500	-8.8	20.0
PCB-1016 Peak 4	Lin1		0.0251		0.436	0.500	-12.8	20.0
PCB-1016 Peak 5	Lin1		0.0312		0.466	0.500	-6.9	20.0
PCB-1260 Peak 1	Lin1		0.0572		0.465	0.500	-7.0	20.0
PCB-1260 Peak 2	Lin1		0.0645		0.473	0.500	-5.5	20.0
PCB-1260 Peak 3	Lin1		0.0680		0.413	0.500	-17.5	20.0
PCB-1260 Peak 4	Lin1		0.0487		0.465	0.500	-7.0	20.0
PCB-1260 Peak 5	Lin1		0.1241		0.469	0.500	-6.2	20.0
Tetrachloro-m-xylene	Lin1		1.210		0.0100	0.0125	-19.7	20.0
DCB Decachlorobiphenyl	Lin1		1.002		0.0113	0.0125	-9.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCVIS 480-569989/5 Calibration Date: 02/18/2021 13:48

Instrument ID: HP6890-7 Calib Start Date: 07/23/2020 16:32

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 07/23/2020 18:07

Lab File ID: 7_89-148.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	3.38	3.35	3.41
PCB-1016 Peak 2	4.12	4.09	4.15
PCB-1016 Peak 3	4.20	4.17	4.23
PCB-1016 Peak 4	4.27	4.24	4.30
PCB-1016 Peak 5	4.69	4.66	4.72
PCB-1260 Peak 1	5.65	5.62	5.68
PCB-1260 Peak 2	5.85	5.82	5.88
PCB-1260 Peak 3	6.14	6.11	6.17
PCB-1260 Peak 4	6.57	6.54	6.60
PCB-1260 Peak 5	6.86	6.83	6.89
Tetrachloro-m-xylene	3.11	3.08	3.14
DCB Decachlorobiphenyl	9.52	9.49	9.55

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-148.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 18-Feb-2021 13:48:55 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 19-Feb-2021 11:13:37 Calib Date: 23-Jul-2020 18:07:54
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1646

First Level Reviewer: chumongkolratn Date: 19-Feb-2021 11:13:37

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.069	2.069	0.000	6780136	0.5000	0.5000	
2	2.267	2.267	0.000	7023098	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	3.107	3.107	0.000	205122	0.0125	0.0100	
2	3.067	3.067	0.000	213212	0.0125	0.0102	
						RPD = 1.51	
9 PCB-1016							
1	3.383	3.383	0.000	145687	0.5000	0.4394	
1	4.117	4.117	0.000	475984	0.5000	0.4647	
1	4.204	4.204	0.000	263622	0.5000	0.4561	
1	4.272	4.272	0.000	170145	0.5000	0.4360	
1	4.692	4.692	0.000	211862	0.5000	0.4656	
		Average of Peak Amounts =				0.4523	
2	4.250	4.250	0.000	433223	0.5000	0.5056	
2	4.376	4.376	0.000	266251	0.5000	0.4774	
2	4.483	4.483	0.000	162250	0.5000	0.4434	
2	4.782	4.782	0.000	220377	0.5000	0.4302	
2	4.898	4.898	0.000	113282	0.5000	0.4250	
		Average of Peak Amounts =				0.4563	
						RPD = 0.88	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	5.653	5.653	0.000	387701	0.5000	0.4648	
1	5.854	5.854	0.000	437301	0.5000	0.4726	
1	6.141	6.141	0.000	460799	0.5000	0.4125	
1	6.568	6.568	0.000	329978	0.5000	0.4648	
1	6.860	6.860	0.000	841263	0.5000	0.4689	
		Average of Peak Amounts =				0.4567	
2	5.825	5.825	0.000	342034	0.5000	0.4789	M
2	5.936	5.936	0.000	416149	0.5000	0.4743	
2	6.366	6.366	0.000	413309	0.5000	0.4840	
2	7.033	7.033	0.000	983624	0.5000	0.5213	
2	7.660	7.660	0.000	564651	0.5000	0.4750	
		Average of Peak Amounts =				0.4867	
						RPD = 6.35	
2 1260 Res 1							
1	7.258	7.258	0.000	418760	NC	NC	
2	7.660	7.660	0.000	564651	NC	NC	
4 1260 Res 2							
1	7.358	7.358	0.000	202641	NC	NC	
2	8.419	8.419	0.000	102398	NC	NC	
3 1260 Res 3							
1	7.438	7.438	0.000	238669	NC	NC	
2	8.528	8.528	0.000	256875	NC	NC	
$ 15 DCB Decachlorobiphenyl							M
1	9.520	9.520	0.000	169759	0.0125	0.0113	M
2	10.053	10.053	0.000	185921	0.0125	0.0117	
						RPD = 3.11	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.5_00124 Amount Added: 1.00 Units: mL

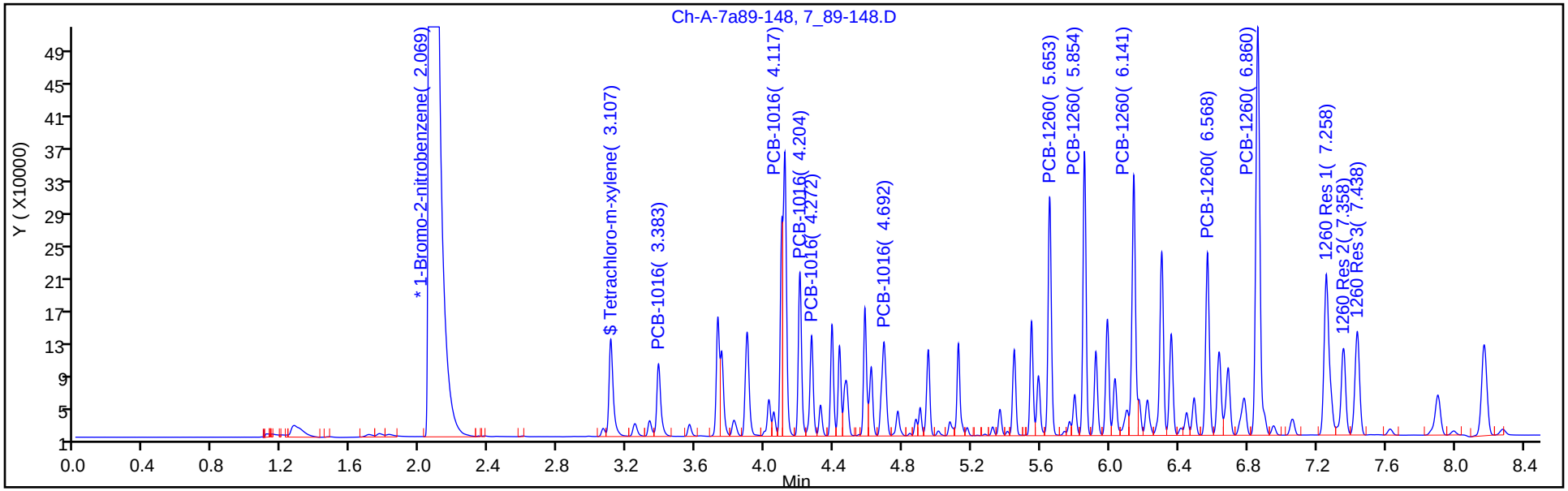
Report Date: 19-Feb-2021 11:13:37 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

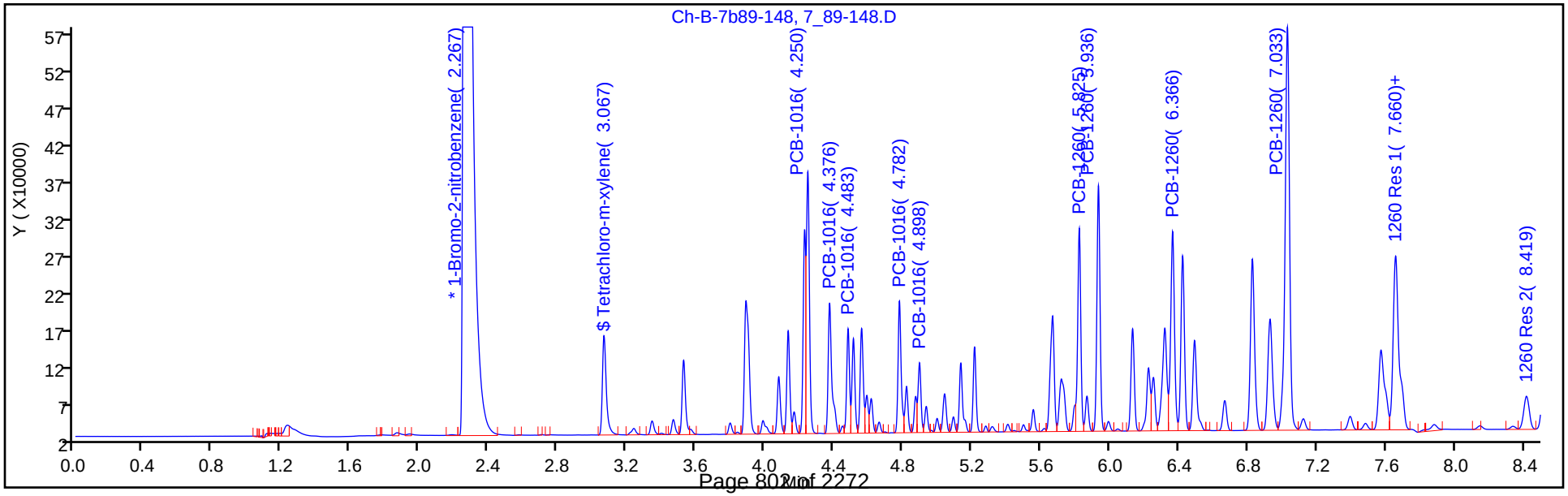
Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-148.D

Injection Date:	18-Feb-2021 13:48:55	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCVIS			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

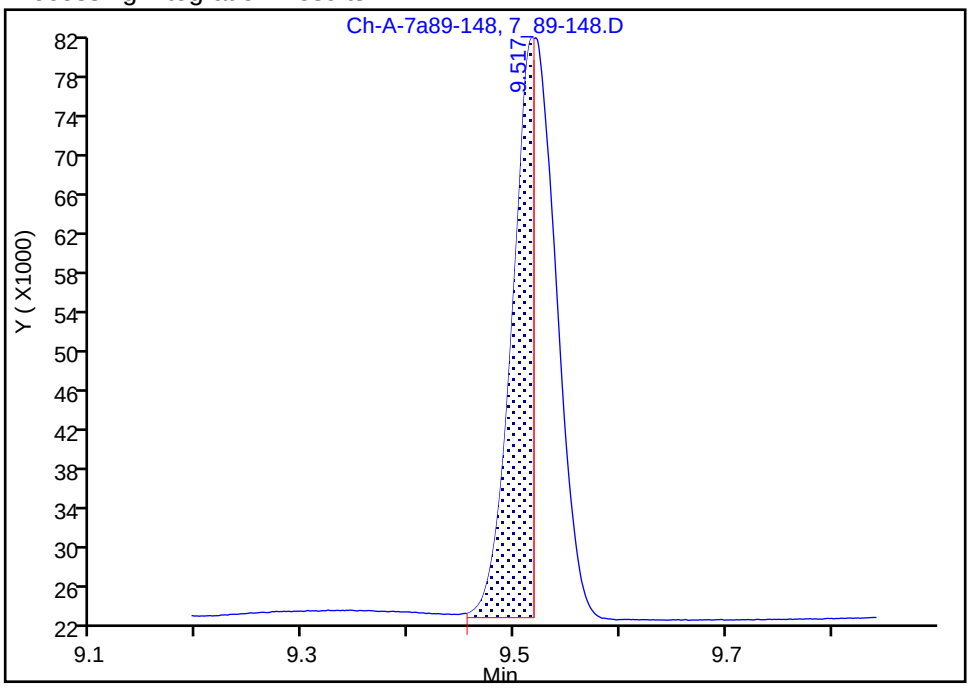
Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-148.D
Injection Date: 18-Feb-2021 13:48:55 Instrument ID: HP6890-7
Lims ID: CCVIS
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: ZB-5 (0.53 mm) Detector Ch-A-7A136

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

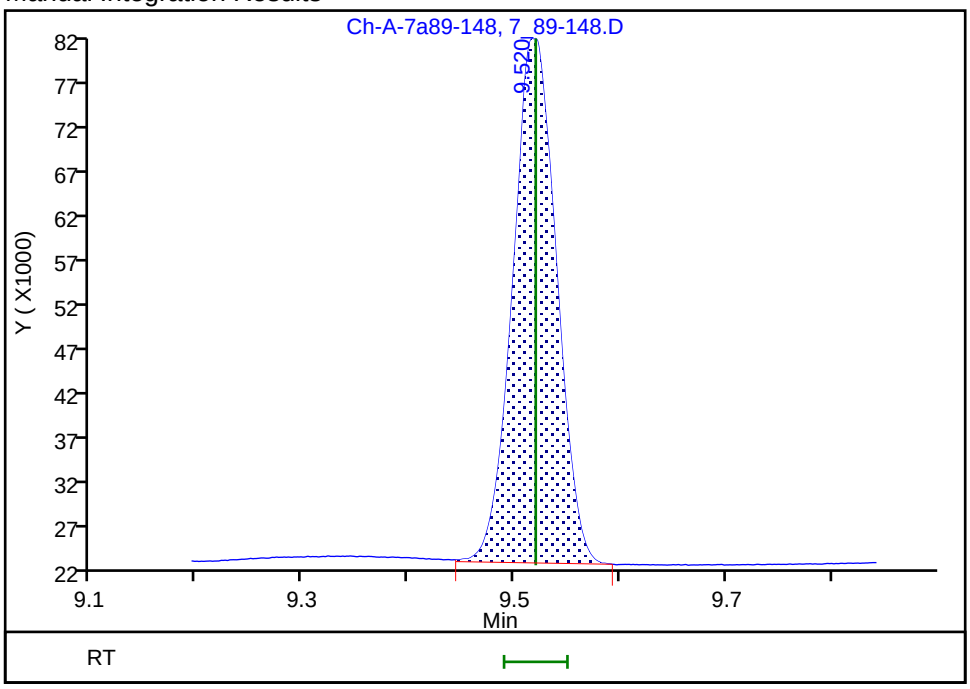
Processing Integration Results

RT: 9.52
Area: 81896
Amount: 0.005321
Amount Units: ng/uL



Manual Integration Results

RT: 9.52
Area: 169759
Amount: 0.011344
Amount Units: ng/uL



Reviewer: clarkda, 18-Feb-2021 14:31:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCVIS 480-569989/5 Calibration Date: 02/18/2021 13:48

Instrument ID: HP6890-7 Calib Start Date: 07/23/2020 16:32

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 07/23/2020 18:07

Lab File ID: 7_89-148.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.0617		0.506	0.500	1.1	20.0
PCB-1016 Peak 2	Lin1		0.0379		0.477	0.500	-4.5	20.0
PCB-1016 Peak 3	Ave	0.0261	0.0231		0.443	0.500	-11.3	20.0
PCB-1016 Peak 4	Ave	0.0365	0.0314		0.430	0.500	-14.0	20.0
PCB-1016 Peak 5	Ave	0.0190	0.0161		0.425	0.500	-15.0	20.0
PCB-1260 Peak 1	Lin1		0.0487		0.479	0.500	-4.2	20.0
PCB-1260 Peak 2	Lin1		0.0593		0.474	0.500	-5.1	20.0
PCB-1260 Peak 3	Lin1		0.0588		0.484	0.500	-3.2	20.0
PCB-1260 Peak 4	Lin1		0.1401		0.521	0.500	4.3	20.0
PCB-1260 Peak 5	Lin1		0.0804		0.475	0.500	-5.0	20.0
Tetrachloro-m-xylene	Lin1		1.214		0.0102	0.0125	-18.5	20.0
DCB Decachlorobiphenyl	Lin1		1.059		0.0117	0.0125	-6.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCVIS 480-569989/5 Calibration Date: 02/18/2021 13:48

Instrument ID: HP6890-7 Calib Start Date: 07/23/2020 16:32

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 07/23/2020 18:07

Lab File ID: 7_89-148.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	4.25	4.22	4.28
PCB-1016 Peak 2	4.38	4.35	4.41
PCB-1016 Peak 3	4.48	4.45	4.51
PCB-1016 Peak 4	4.78	4.75	4.81
PCB-1016 Peak 5	4.90	4.87	4.93
PCB-1260 Peak 1	5.83	5.80	5.86
PCB-1260 Peak 2	5.94	5.91	5.97
PCB-1260 Peak 3	6.37	6.34	6.40
PCB-1260 Peak 4	7.03	7.00	7.06
PCB-1260 Peak 5	7.66	7.63	7.69
Tetrachloro-m-xylene	3.07	3.04	3.10
DCB Decachlorobiphenyl	10.05	10.02	10.08

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-148.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 18-Feb-2021 13:48:55 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 19-Feb-2021 11:13:37 Calib Date: 23-Jul-2020 18:07:54
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1646

First Level Reviewer: chumongkolratn Date: 19-Feb-2021 11:13:37

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.069	2.069	0.000	6780136	0.5000	0.5000	
2	2.267	2.267	0.000	7023098	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	3.107	3.107	0.000	205122	0.0125	0.0100	
2	3.067	3.067	0.000	213212	0.0125	0.0102	
						RPD = 1.51	
9 PCB-1016							
1	3.383	3.383	0.000	145687	0.5000	0.4394	
1	4.117	4.117	0.000	475984	0.5000	0.4647	
1	4.204	4.204	0.000	263622	0.5000	0.4561	
1	4.272	4.272	0.000	170145	0.5000	0.4360	
1	4.692	4.692	0.000	211862	0.5000	0.4656	
		Average of Peak Amounts =				0.4523	
2	4.250	4.250	0.000	433223	0.5000	0.5056	
2	4.376	4.376	0.000	266251	0.5000	0.4774	
2	4.483	4.483	0.000	162250	0.5000	0.4434	
2	4.782	4.782	0.000	220377	0.5000	0.4302	
2	4.898	4.898	0.000	113282	0.5000	0.4250	
		Average of Peak Amounts =				0.4563	
						RPD = 0.88	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	5.653	5.653	0.000	387701	0.5000	0.4648	
1	5.854	5.854	0.000	437301	0.5000	0.4726	
1	6.141	6.141	0.000	460799	0.5000	0.4125	
1	6.568	6.568	0.000	329978	0.5000	0.4648	
1	6.860	6.860	0.000	841263	0.5000	0.4689	
		Average of Peak Amounts =				0.4567	
2	5.825	5.825	0.000	342034	0.5000	0.4789	M
2	5.936	5.936	0.000	416149	0.5000	0.4743	
2	6.366	6.366	0.000	413309	0.5000	0.4840	
2	7.033	7.033	0.000	983624	0.5000	0.5213	
2	7.660	7.660	0.000	564651	0.5000	0.4750	
		Average of Peak Amounts =				0.4867	
						RPD = 6.35	
2 1260 Res 1							
1	7.258	7.258	0.000	418760	NC	NC	
2	7.660	7.660	0.000	564651	NC	NC	
4 1260 Res 2							
1	7.358	7.358	0.000	202641	NC	NC	
2	8.419	8.419	0.000	102398	NC	NC	
3 1260 Res 3							
1	7.438	7.438	0.000	238669	NC	NC	
2	8.528	8.528	0.000	256875	NC	NC	
$ 15 DCB Decachlorobiphenyl							M
1	9.520	9.520	0.000	169759	0.0125	0.0113	M
2	10.053	10.053	0.000	185921	0.0125	0.0117	
						RPD = 3.11	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.5_00124 Amount Added: 1.00 Units: mL

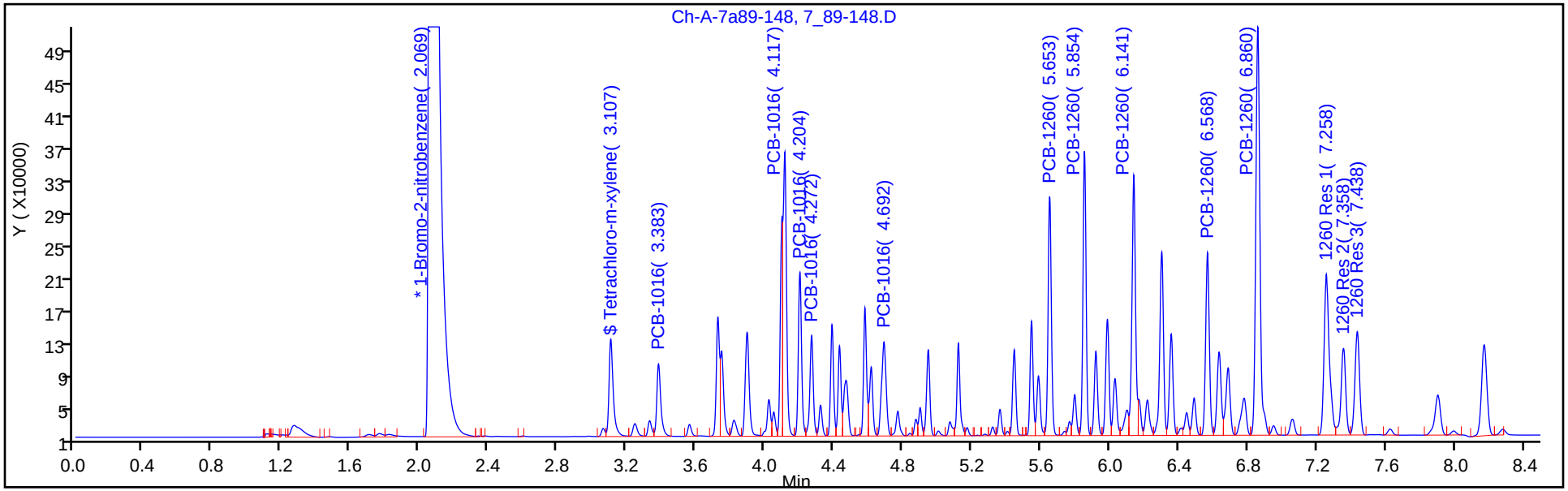
Report Date: 19-Feb-2021 11:13:38 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

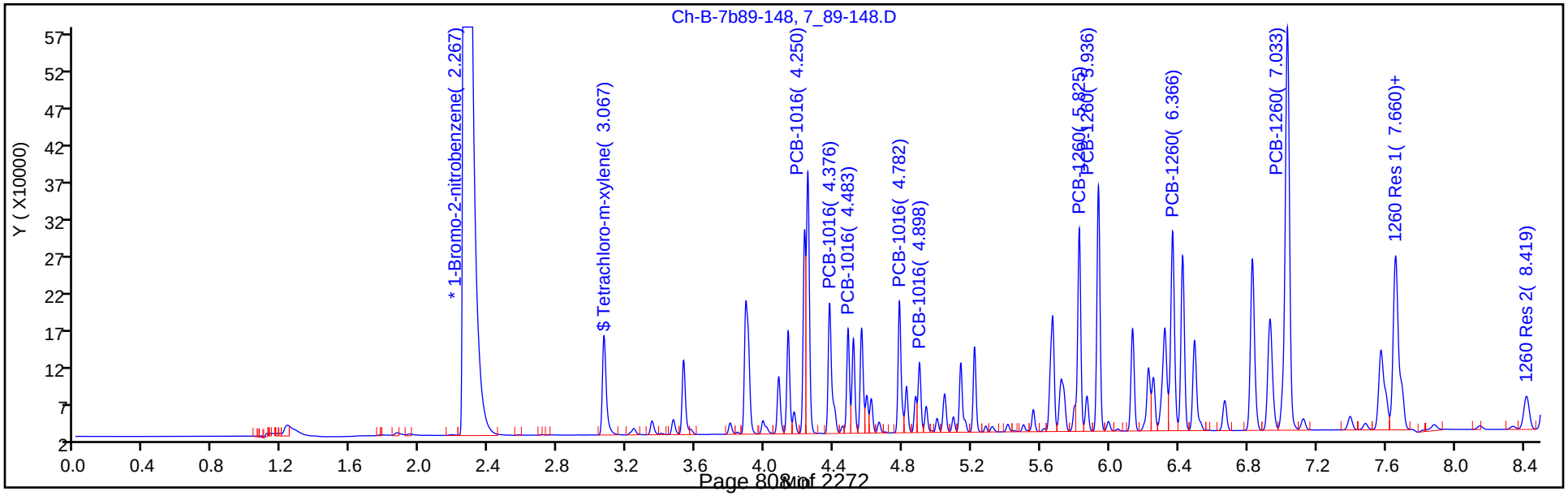
Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-148.D

Injection Date:	18-Feb-2021 13:48:55	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCVIS			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Report Date: 19-Feb-2021 11:13:38 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-148.D

Injection Date: 18-Feb-2021 13:48:55 Instrument ID: HP6890-7

Lims ID: CCVIS

Client ID:

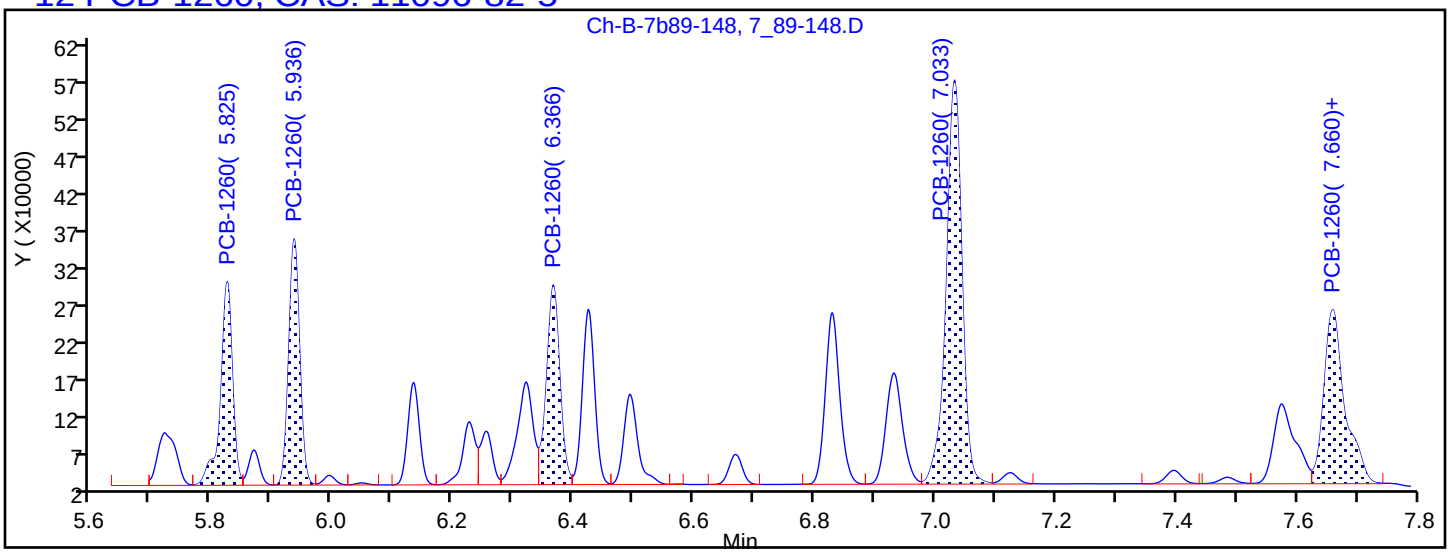
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 5

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

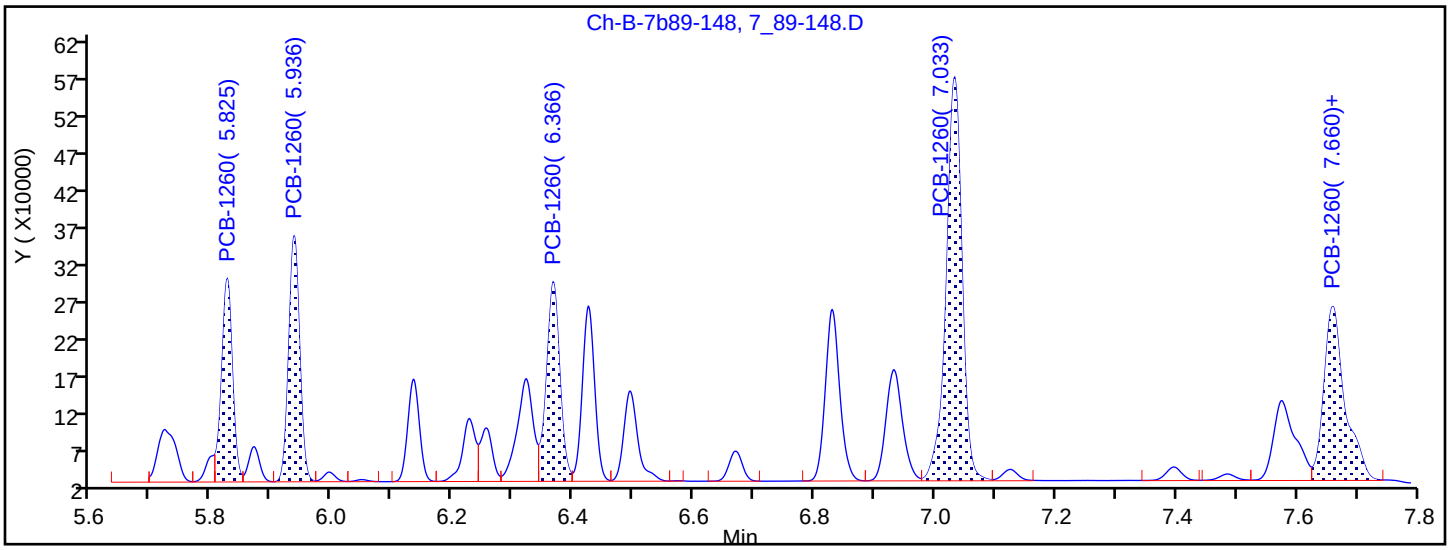
Column: ZB-35 (0.53 mm) Detector Ch-B-7b136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

5.825	Response = 378126
5.936	Response = 416149
6.366	Response = 413309
7.033	Response = 983624
7.660	Response = 564651



Manual Integration Results

5.825	Response = 342034	M
5.936	Response = 416149	
6.366	Response = 413309	
7.033	Response = 983624	
7.660	Response = 564651	

Reviewer: chumongkolratn, 19-Feb-2021 11:06:19

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 480-569989/6 Calibration Date: 02/18/2021 14:04

Instrument ID: HP6890-7 Calib Start Date: 04/16/2020 17:56

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 04/16/2020 18:28

Lab File ID: 7_89-149.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Ave	0.0111	0.0091		0.411	0.500	-17.9	20.0
PCB-1221 Peak 2	Lin1		0.0143		0.474	0.500	-5.1	20.0
PCB-1221 Peak 3	Lin1		0.0088		0.488	0.500	-2.5	20.0
PCB-1221 Peak 4	Lin1		0.0330		0.464	0.500	-7.2	20.0
PCB-1254 Peak 1	Lin1		0.0501		0.540	0.500	7.9	20.0
PCB-1254 Peak 2	Lin1		0.0581		0.540	0.500	7.9	20.0
PCB-1254 Peak 3	Lin1		0.0461		0.547	0.500	9.3	20.0
PCB-1254 Peak 4	Lin1		0.0827		0.521	0.500	4.1	20.0
PCB-1254 Peak 5	Lin1		0.0858		0.544	0.500	8.8	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 480-569989/6 Calibration Date: 02/18/2021 14:04

Instrument ID: HP6890-7 Calib Start Date: 04/16/2020 17:56

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 04/16/2020 18:28

Lab File ID: 7_89-149.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	2.60	2.57	2.63
PCB-1221 Peak 2	3.25	3.22	3.28
PCB-1221 Peak 3	3.33	3.30	3.36
PCB-1221 Peak 4	3.38	3.35	3.41
PCB-1254 Peak 1	4.95	4.92	4.98
PCB-1254 Peak 2	5.12	5.09	5.15
PCB-1254 Peak 3	5.36	5.33	5.39
PCB-1254 Peak 4	5.45	5.42	5.48
PCB-1254 Peak 5	5.66	5.63	5.69

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-149.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 18-Feb-2021 14:04:37 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub7

Method: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 19-Feb-2021 11:13:49 Calib Date: 23-Jul-2020 18:07:54
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1646

First Level Reviewer: chumongkolratn Date: 19-Feb-2021 11:13:49

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.069	2.069	0.000	6508793	0.5000	0.5000	
2	2.268	2.268	0.000	6743226	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1221							M
1	2.596	2.596	0.000	59180	0.5000	0.4106	
1	3.248	3.248	0.000	93076	0.5000	0.4744	
1	3.333	3.333	0.000	57186	0.5000	0.4877	
1	3.384	3.384	0.000	214789	0.5000	0.4642	
		Average of Peak Amounts =				0.4592	
2	3.240	3.240	0.000	23564	0.5000	0.4567	M
2	3.348	3.348	0.000	95630	0.5000	0.5327	
2	3.470	3.470	0.000	59615	0.5000	0.5391	
2	3.530	3.530	0.000	194648	0.5000	0.5355	
		Average of Peak Amounts =				0.5160	
						RPD = 11.65	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1254							M
1	4.948	4.948	0.000	326014	0.5000	0.5396	
1	5.123	5.123	0.000	377985	0.5000	0.5396	M
1	5.363	5.363	0.000	299792	0.5000	0.5467	
1	5.449	5.449	0.000	538289	0.5000	0.5206	
1	5.661	5.661	0.000	558485	0.5000	0.5440	
		Average of Peak Amounts =				0.5381	
2	5.137	5.137	0.000	338477	0.5000	0.5738	M
2	5.217	5.217	0.000	399120	0.5000	0.5690	M
2	5.558	5.558	0.000	277289	0.5000	0.5648	M
2	5.658	5.658	0.000	575207	0.5000	0.5569	M
2	5.798	5.798	0.000	399394	0.5000	0.5633	M
		Average of Peak Amounts =				0.5656	
						RPD = 4.98	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@0.5_00079 Amount Added: 1.00 Units: mL

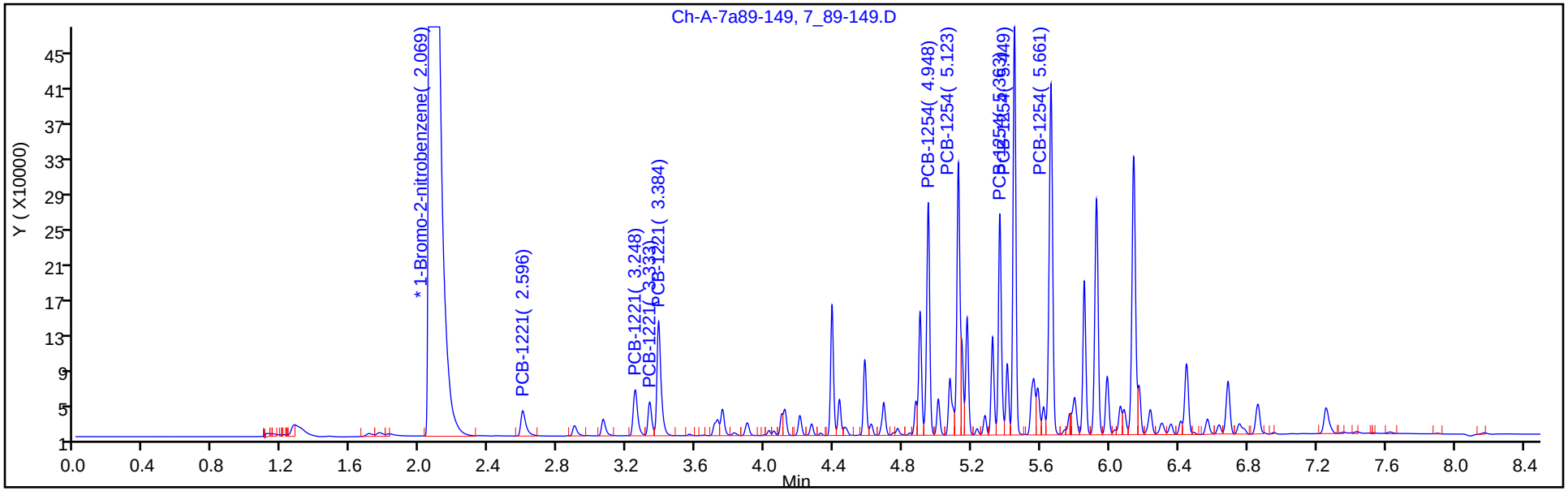
Report Date: 19-Feb-2021 11:13:49 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

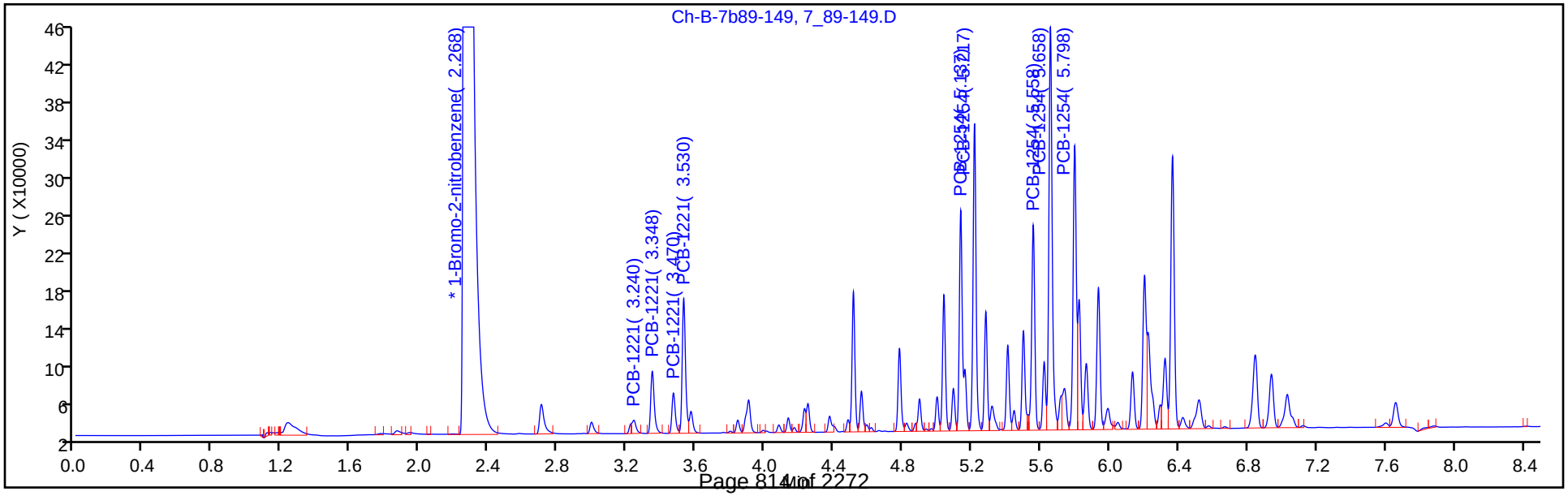
Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-149.D

Injection Date:	18-Feb-2021 14:04:37	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Report Date: 19-Feb-2021 11:13:49 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-149.D

Injection Date: 18-Feb-2021 14:04:37 Instrument ID: HP6890-7

Lims ID: CCV

Client ID:

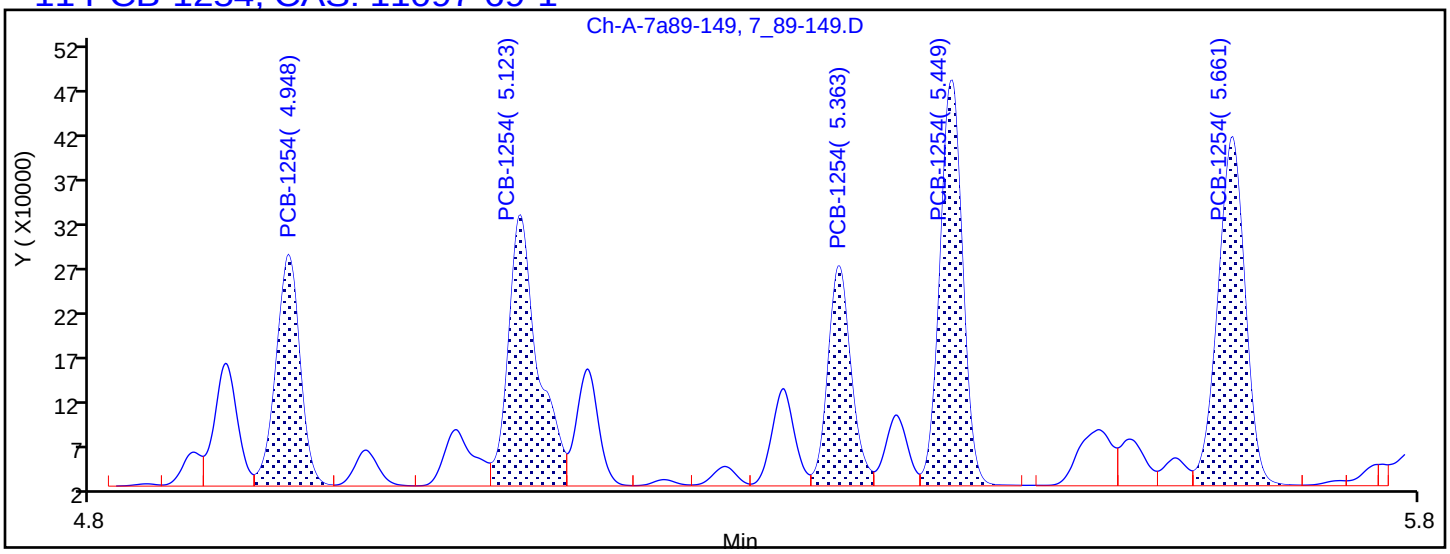
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

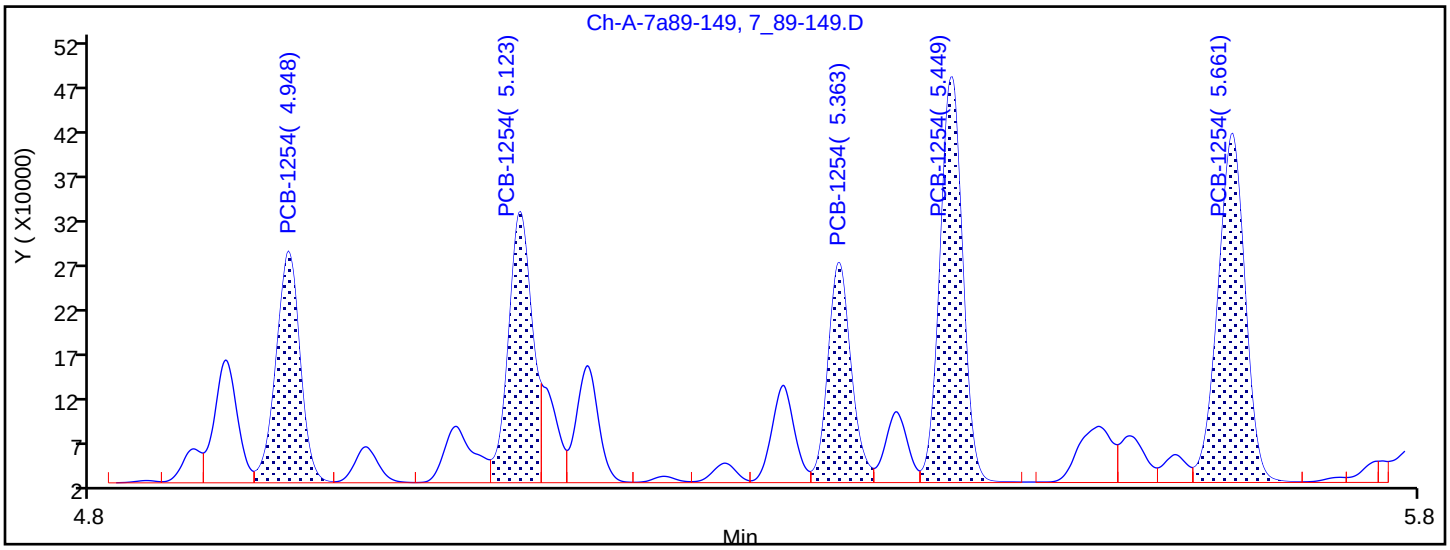
Column: ZB-5 (0.53 mm) Detector Ch-A-7A136

11 PCB-1254, CAS: 11097-69-1



Processing Integration Results

4.948	Response = 326014
5.123	Response = 466937
5.363	Response = 299792
5.449	Response = 538289
5.661	Response = 558485



Manual Integration Results

4.948	Response = 326014	
5.123	Response = 377985	M
5.363	Response = 299792	
5.449	Response = 538289	
5.661	Response = 558485	

Reviewer: clarkda, 18-Feb-2021 14:32:34

Audit Action: Split an Integrated Peak Audit Reason: Shouldering

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 480-569989/6 Calibration Date: 02/18/2021 14:04

Instrument ID: HP6890-7 Calib Start Date: 04/16/2020 17:56

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 04/16/2020 18:28

Lab File ID: 7_89-149.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Ave	0.0038	0.0035		0.457	0.500	-8.7	20.0
PCB-1221 Peak 2	Lin1		0.0142		0.533	0.500	6.5	20.0
PCB-1221 Peak 3	Lin1		0.0088		0.539	0.500	7.8	20.0
PCB-1221 Peak 4	Lin1		0.0289		0.535	0.500	7.1	20.0
PCB-1254 Peak 1	Lin1		0.0502		0.574	0.500	14.8	20.0
PCB-1254 Peak 2	Lin1		0.0592		0.569	0.500	13.8	20.0
PCB-1254 Peak 3	Lin1		0.0411		0.565	0.500	13.0	20.0
PCB-1254 Peak 4	Lin1		0.0853		0.557	0.500	11.4	20.0
PCB-1254 Peak 5	Lin1		0.0592		0.563	0.500	12.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 480-569989/6 Calibration Date: 02/18/2021 14:04

Instrument ID: HP6890-7 Calib Start Date: 04/16/2020 17:56

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 04/16/2020 18:28

Lab File ID: 7_89-149.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	3.24	3.21	3.27
PCB-1221 Peak 2	3.35	3.32	3.38
PCB-1221 Peak 3	3.47	3.44	3.50
PCB-1221 Peak 4	3.53	3.50	3.56
PCB-1254 Peak 1	5.14	5.11	5.17
PCB-1254 Peak 2	5.22	5.19	5.25
PCB-1254 Peak 3	5.56	5.53	5.59
PCB-1254 Peak 4	5.66	5.63	5.69
PCB-1254 Peak 5	5.80	5.77	5.83

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-149.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 18-Feb-2021 14:04:37 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub7

Method: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 19-Feb-2021 11:13:49 Calib Date: 23-Jul-2020 18:07:54
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1646

First Level Reviewer: chumongkolratn Date: 19-Feb-2021 11:13:49

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.069	2.069	0.000	6508793	0.5000	0.5000	
2	2.268	2.268	0.000	6743226	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1221							M
1	2.596	2.596	0.000	59180	0.5000	0.4106	
1	3.248	3.248	0.000	93076	0.5000	0.4744	
1	3.333	3.333	0.000	57186	0.5000	0.4877	
1	3.384	3.384	0.000	214789	0.5000	0.4642	
		Average of Peak Amounts =				0.4592	
2	3.240	3.240	0.000	23564	0.5000	0.4567	M
2	3.348	3.348	0.000	95630	0.5000	0.5327	
2	3.470	3.470	0.000	59615	0.5000	0.5391	
2	3.530	3.530	0.000	194648	0.5000	0.5355	
		Average of Peak Amounts =				0.5160	
						RPD = 11.65	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1254							M
1	4.948	4.948	0.000	326014	0.5000	0.5396	
1	5.123	5.123	0.000	377985	0.5000	0.5396	M
1	5.363	5.363	0.000	299792	0.5000	0.5467	
1	5.449	5.449	0.000	538289	0.5000	0.5206	
1	5.661	5.661	0.000	558485	0.5000	0.5440	
		Average of Peak Amounts =				0.5381	
2	5.137	5.137	0.000	338477	0.5000	0.5738	M
2	5.217	5.217	0.000	399120	0.5000	0.5690	M
2	5.558	5.558	0.000	277289	0.5000	0.5648	M
2	5.658	5.658	0.000	575207	0.5000	0.5569	M
2	5.798	5.798	0.000	399394	0.5000	0.5633	M
		Average of Peak Amounts =				0.5656	
						RPD = 4.98	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@0.5_00079 Amount Added: 1.00 Units: mL

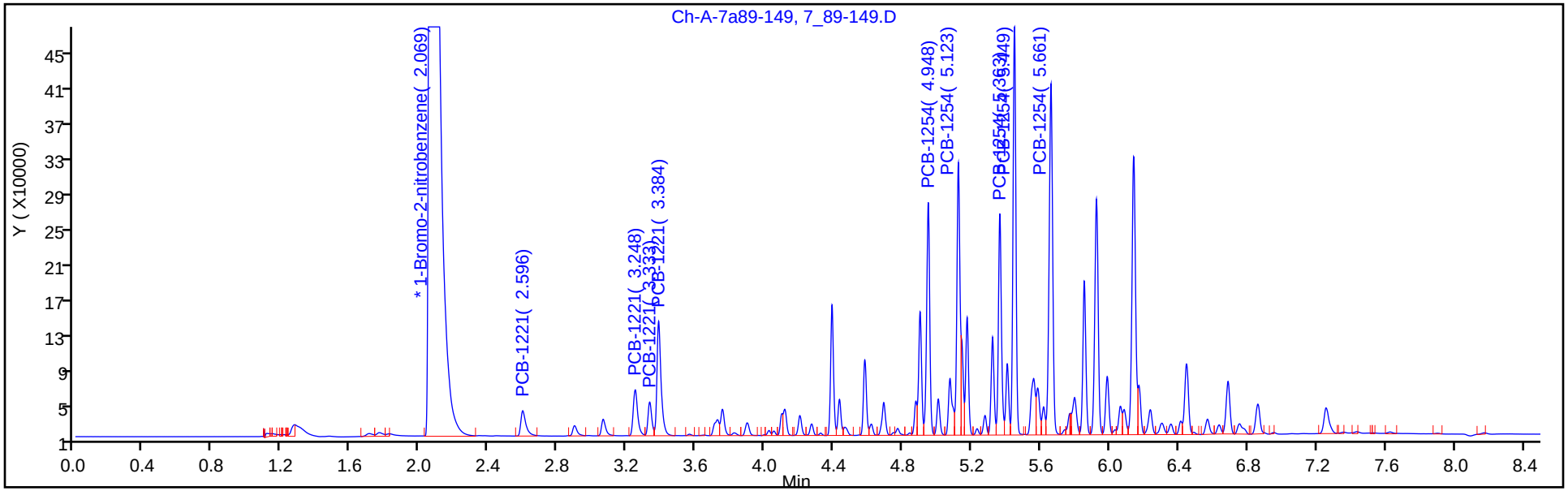
Report Date: 19-Feb-2021 11:13:50 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

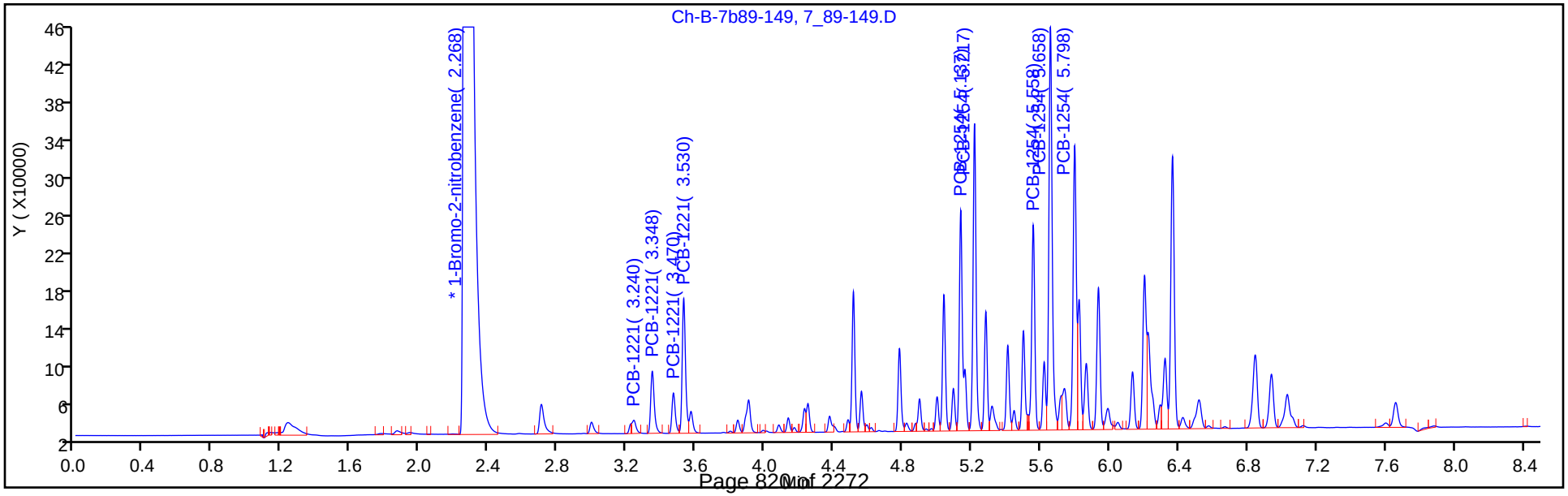
Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-149.D

Injection Date:	18-Feb-2021 14:04:37	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Report Date: 19-Feb-2021 11:13:50 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-149.D

Injection Date: 18-Feb-2021 14:04:37 Instrument ID: HP6890-7

Lims ID: CCV

Client ID:

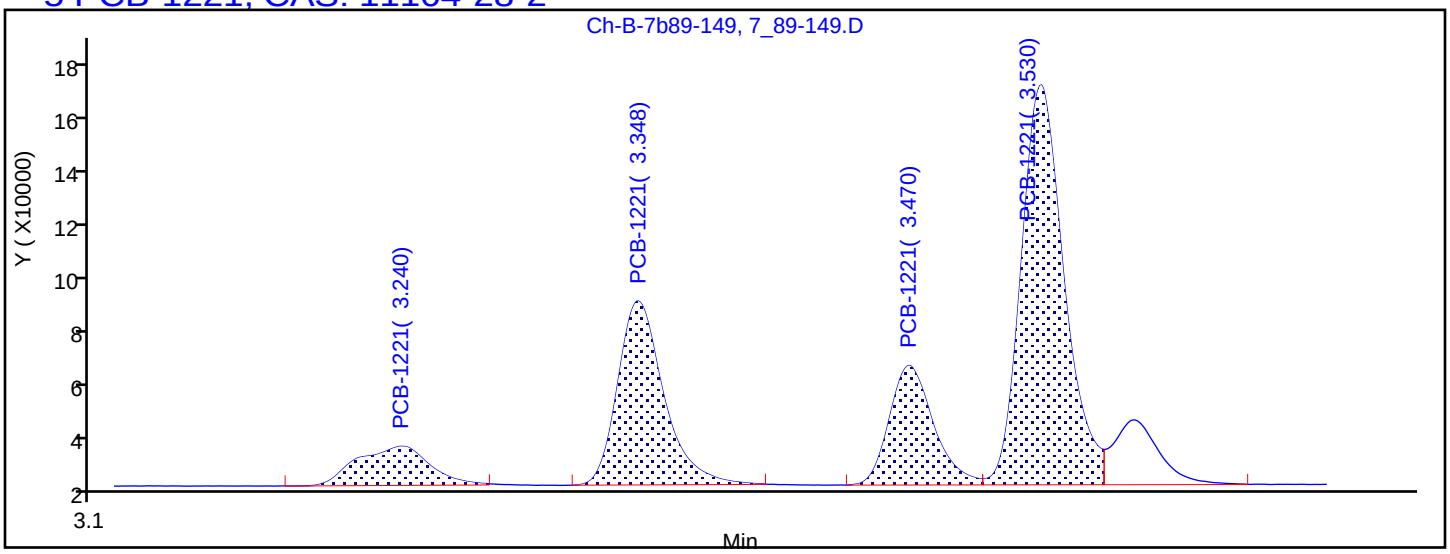
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

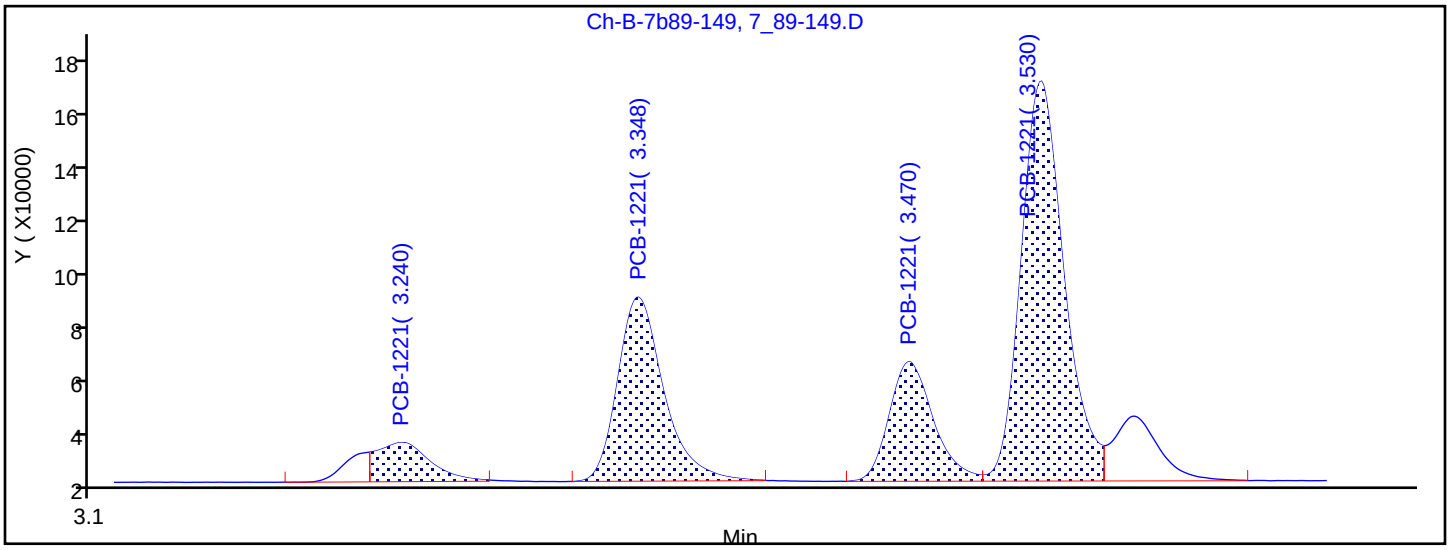
Column: ZB-35 (0.53 mm) Detector Ch-B-7b136

5 PCB-1221, CAS: 11104-28-2



Processing Integration Results

3.240	Response = 32071
3.348	Response = 95630
3.470	Response = 59615
3.530	Response = 194648



Manual Integration Results

3.240	Response = 23564	M
3.348	Response = 95630	
3.470	Response = 59615	
3.530	Response = 194648	

Reviewer: clarkda, 18-Feb-2021 14:32:28

Audit Action: Split an Integrated Peak Audit Reason: Shouldering

Report Date: 19-Feb-2021 11:13:50 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-149.D

Injection Date: 18-Feb-2021 14:04:37 Instrument ID: HP6890-7

Lims ID: CCV

Client ID:

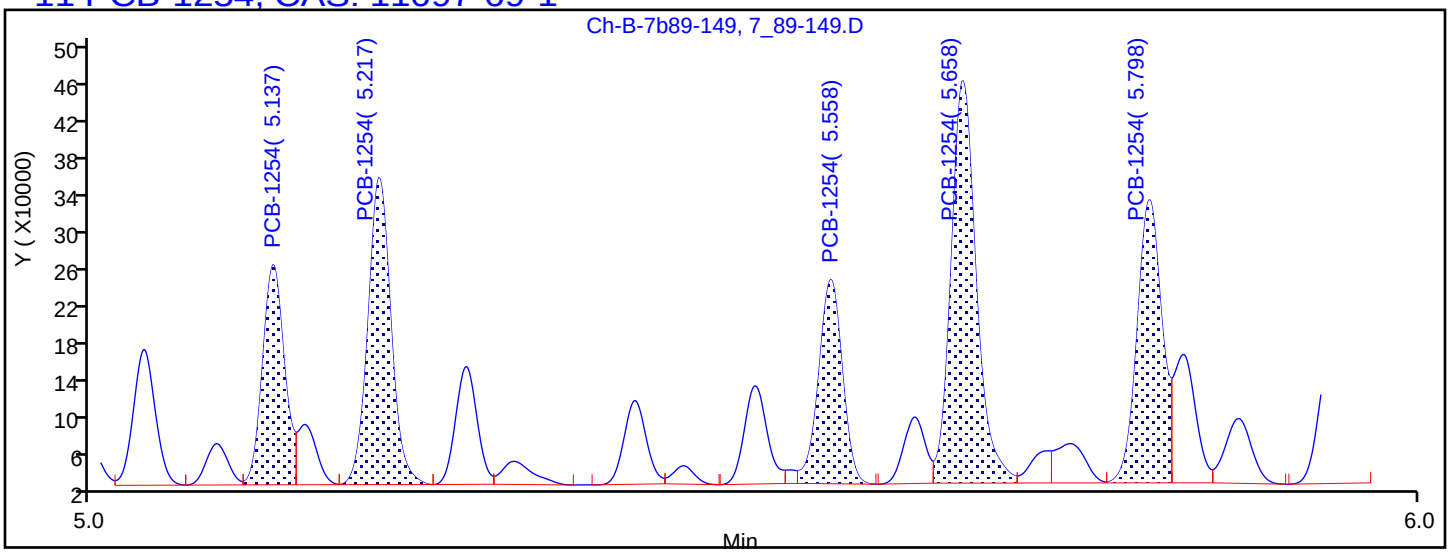
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

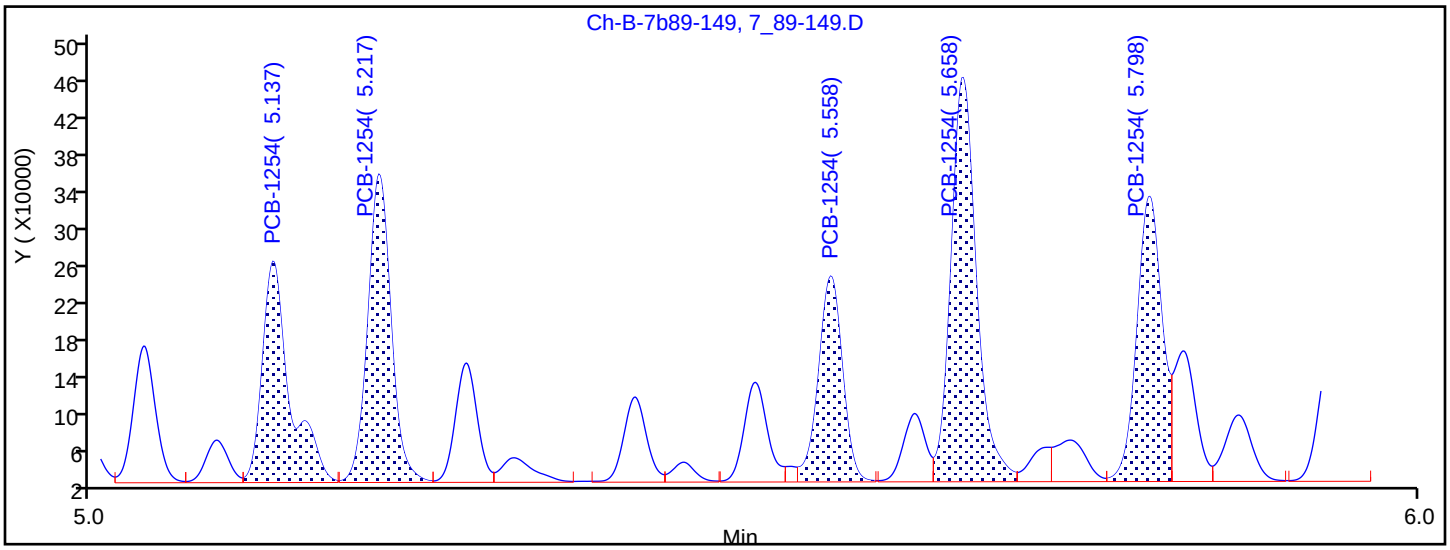
Column: ZB-35 (0.53 mm) Detector Ch-B-7b136

11 PCB-1254, CAS: 11097-69-1



Processing Integration Results

5.137	Response = 269176
5.217	Response = 392720
5.558	Response = 270916
5.658	Response = 566224
5.798	Response = 392362



Manual Integration Results

5.137	Response = 338477	M
5.217	Response = 399120	M
5.558	Response = 277289	M
5.658	Response = 575207	M
5.798	Response = 399394	M

Reviewer: clarkda, 18-Feb-2021 14:32:45

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 480-569989/7 Calibration Date: 02/18/2021 14:20

Instrument ID: HP6890-7 Calib Start Date: 04/16/2020 18:59

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 04/16/2020 19:31

Lab File ID: 7_89-150.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Lin1		0.0287		0.476	0.501	-5.0	20.0
PCB-1232 Peak 2	Lin1		0.0322		0.495	0.501	-1.2	20.0
PCB-1232 Peak 3	Lin1		0.0198		0.518	0.501	3.4	20.0
PCB-1232 Peak 4	Lin1		0.0129		0.492	0.501	-1.7	20.0
PCB-1232 Peak 5	Lin1		0.0130		0.538	0.501	7.3	20.0
PCB-1262 Peak 1	Lin1		0.0523		0.541	0.501	8.0	20.0
PCB-1262 Peak 2	Lin1		0.0818		0.536	0.501	7.0	20.0
PCB-1262 Peak 3	Lin1		0.1571		0.536	0.501	7.0	20.0
PCB-1262 Peak 4	Lin1		0.0623		0.551	0.501	10.1	20.0
PCB-1262 Peak 5	Lin1		0.0632		0.549	0.501	9.6	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 480-569989/7 Calibration Date: 02/18/2021 14:20

Instrument ID: HP6890-7 Calib Start Date: 04/16/2020 18:59

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 04/16/2020 19:31

Lab File ID: 7_89-150.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	3.39	3.36	3.42
PCB-1232 Peak 2	4.12	4.09	4.15
PCB-1232 Peak 3	4.20	4.17	4.23
PCB-1232 Peak 4	4.27	4.24	4.30
PCB-1232 Peak 5	4.58	4.55	4.61
PCB-1262 Peak 1	5.65	5.62	5.68
PCB-1262 Peak 2	6.30	6.27	6.33
PCB-1262 Peak 3	6.86	6.83	6.89
PCB-1262 Peak 4	7.36	7.33	7.39
PCB-1262 Peak 5	7.44	7.41	7.47

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-150.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 18-Feb-2021 14:20:30 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub8

Method: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 19-Feb-2021 11:24:39 Calib Date: 23-Jul-2020 18:07:54
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1646

First Level Reviewer: chumongkolratn Date: 19-Feb-2021 11:24:39

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.072	2.072	0.000	6227167	0.5000	0.5000	
2	2.268	2.268	0.000	6472750	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							M
1	3.385	3.385	0.000	179119	0.5010	0.4760	
1	4.116	4.116	0.000	200826	0.5010	0.4952	
1	4.204	4.204	0.000	123273	0.5010	0.5180	
1	4.272	4.272	0.000	80414	0.5010	0.4924	
1	4.581	4.581	0.000	81103	0.5010	0.5378	
		Average of Peak Amounts =				0.5039	
2	3.530	3.530	0.000	161258	0.5010	0.5274	
2	4.251	4.251	0.000	192734	0.5010	0.5699	M
2	4.377	4.377	0.000	122660	0.5010	0.5792	M
2	4.483	4.483	0.000	76753	0.5010	0.5923	M
2	4.781	4.781	0.000	109539	0.5010	0.5851	M
		Average of Peak Amounts =				0.5708	
						RPD = 12.45	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							M
1	5.653	5.653	0.000	326304	0.5010	0.5410	
1	6.303	6.303	0.000	510510	0.5010	0.5360	
1	6.862	6.862	0.000	980495	0.5010	0.5360	
1	7.358	7.358	0.000	388744	0.5010	0.5514	
1	7.436	7.436	0.000	394434	0.5010	0.5491	
		Average of Peak Amounts =				0.5427	
2	5.824	5.824	0.000	295828	0.5010	0.5420	M
2	6.424	6.424	0.000	520256	0.5010	0.5566	
2	7.032	7.032	0.000	1137058	0.5010	0.5735	
2	7.575	7.575	0.000	487280	0.5010	0.5987	
2	7.658	7.658	0.000	721403	0.5010	0.5877	
		Average of Peak Amounts =				0.5717	
						RPD = 5.21	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@0.5_00080 Amount Added: 1.00 Units: mL

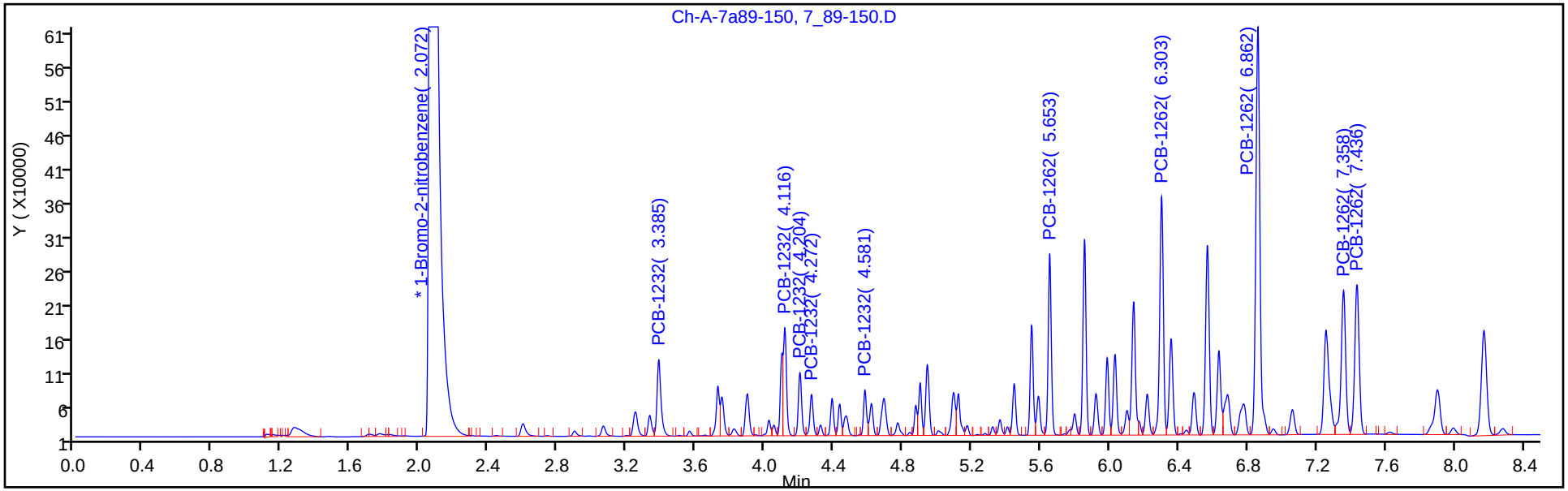
Report Date: 19-Feb-2021 11:24:39 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

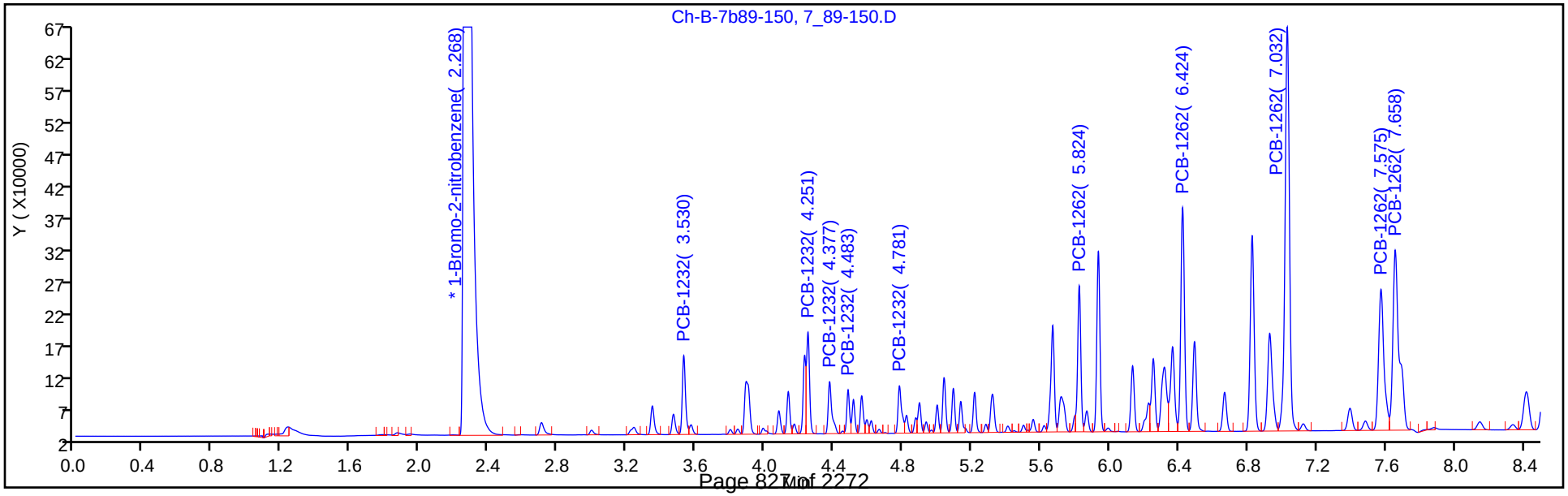
Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-150.D

Injection Date:	18-Feb-2021 14:20:30	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 480-569989/7 Calibration Date: 02/18/2021 14:20

Instrument ID: HP6890-7 Calib Start Date: 04/16/2020 18:59

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 04/16/2020 19:31

Lab File ID: 7_89-150.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Lin1		0.0249		0.527	0.501	5.3	20.0
PCB-1232 Peak 2	Lin1		0.0297		0.570	0.501	13.7	20.0
PCB-1232 Peak 3	Lin1		0.0189		0.579	0.501	15.6	20.0
PCB-1232 Peak 4	Lin1		0.0118		0.592	0.501	18.2	20.0
PCB-1232 Peak 5	Lin1		0.0169		0.585	0.501	16.8	20.0
PCB-1262 Peak 1	Lin1		0.0456		0.542	0.501	8.2	20.0
PCB-1262 Peak 2	Lin1		0.0802		0.557	0.501	11.1	20.0
PCB-1262 Peak 3	Ave	0.1532	0.1753		0.574	0.501	14.5	20.0
PCB-1262 Peak 4	Lin1		0.0751		0.599	0.501	19.5	20.0
PCB-1262 Peak 5	Lin1		0.1112		0.588	0.501	17.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 480-569989/7 Calibration Date: 02/18/2021 14:20

Instrument ID: HP6890-7 Calib Start Date: 04/16/2020 18:59

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 04/16/2020 19:31

Lab File ID: 7_89-150.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	3.53	3.50	3.56
PCB-1232 Peak 2	4.25	4.22	4.28
PCB-1232 Peak 3	4.38	4.35	4.41
PCB-1232 Peak 4	4.48	4.45	4.51
PCB-1232 Peak 5	4.78	4.75	4.81
PCB-1262 Peak 1	5.82	5.79	5.85
PCB-1262 Peak 2	6.42	6.39	6.45
PCB-1262 Peak 3	7.03	7.00	7.06
PCB-1262 Peak 4	7.58	7.55	7.61
PCB-1262 Peak 5	7.66	7.63	7.69

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-150.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 18-Feb-2021 14:20:30 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub8

Method: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 19-Feb-2021 11:24:39 Calib Date: 23-Jul-2020 18:07:54
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1646

First Level Reviewer: chumongkolratn Date: 19-Feb-2021 11:24:39

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.072	2.072	0.000	6227167	0.5000	0.5000	
2	2.268	2.268	0.000	6472750	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							M
1	3.385	3.385	0.000	179119	0.5010	0.4760	
1	4.116	4.116	0.000	200826	0.5010	0.4952	
1	4.204	4.204	0.000	123273	0.5010	0.5180	
1	4.272	4.272	0.000	80414	0.5010	0.4924	
1	4.581	4.581	0.000	81103	0.5010	0.5378	
		Average of Peak Amounts =				0.5039	
2	3.530	3.530	0.000	161258	0.5010	0.5274	
2	4.251	4.251	0.000	192734	0.5010	0.5699	M
2	4.377	4.377	0.000	122660	0.5010	0.5792	M
2	4.483	4.483	0.000	76753	0.5010	0.5923	M
2	4.781	4.781	0.000	109539	0.5010	0.5851	M
		Average of Peak Amounts =				0.5708	
						RPD = 12.45	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							M
1	5.653	5.653	0.000	326304	0.5010	0.5410	
1	6.303	6.303	0.000	510510	0.5010	0.5360	
1	6.862	6.862	0.000	980495	0.5010	0.5360	
1	7.358	7.358	0.000	388744	0.5010	0.5514	
1	7.436	7.436	0.000	394434	0.5010	0.5491	
		Average of Peak Amounts =				0.5427	
2	5.824	5.824	0.000	295828	0.5010	0.5420	M
2	6.424	6.424	0.000	520256	0.5010	0.5566	
2	7.032	7.032	0.000	1137058	0.5010	0.5735	
2	7.575	7.575	0.000	487280	0.5010	0.5987	
2	7.658	7.658	0.000	721403	0.5010	0.5877	
		Average of Peak Amounts =				0.5717	
						RPD = 5.21	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@0.5_00080 Amount Added: 1.00 Units: mL

Report Date: 19-Feb-2021 11:24:40 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-150.D

Injection Date: 18-Feb-2021 14:20:30 Instrument ID: HP6890-7 Operator ID: BufTCHROM

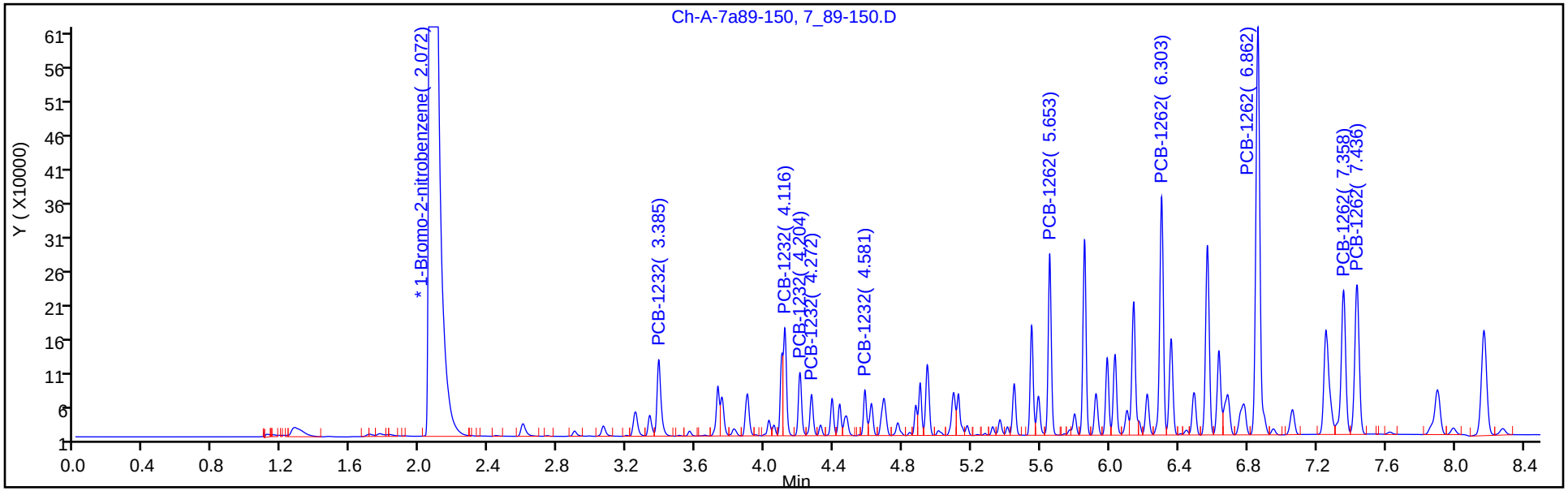
Lims ID: CCV Worklist Smp#: 7

Client ID:

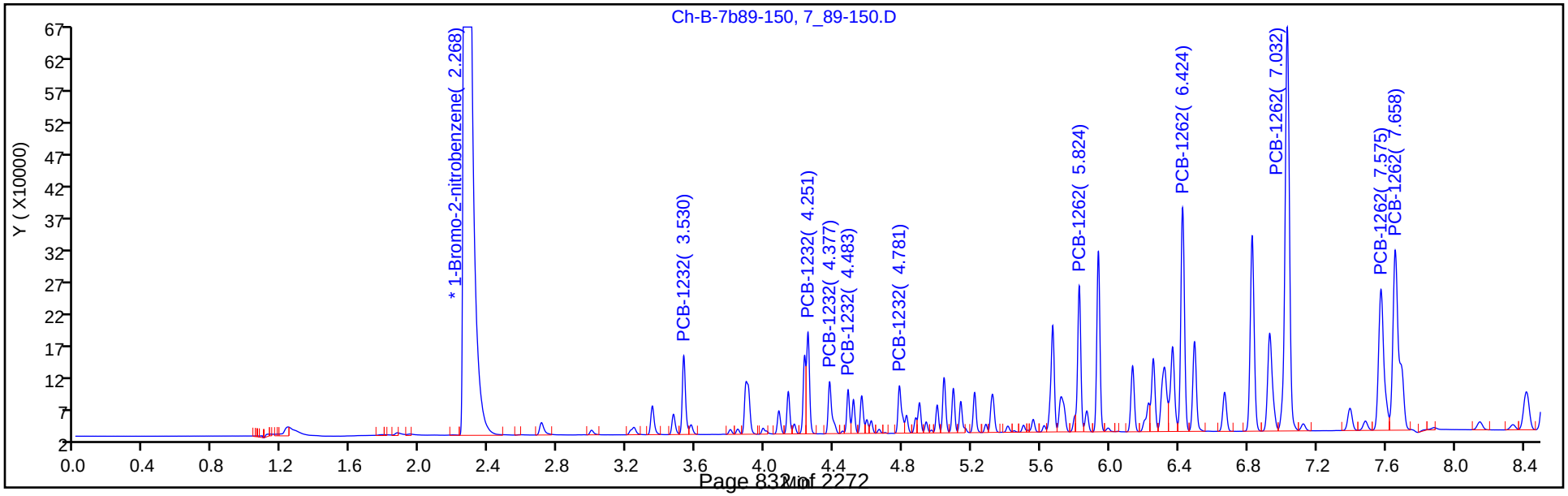
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Report Date: 19-Feb-2021 11:24:40 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-150.D

Injection Date: 18-Feb-2021 14:20:30 Instrument ID: HP6890-7

Lims ID: CCV

Client ID:

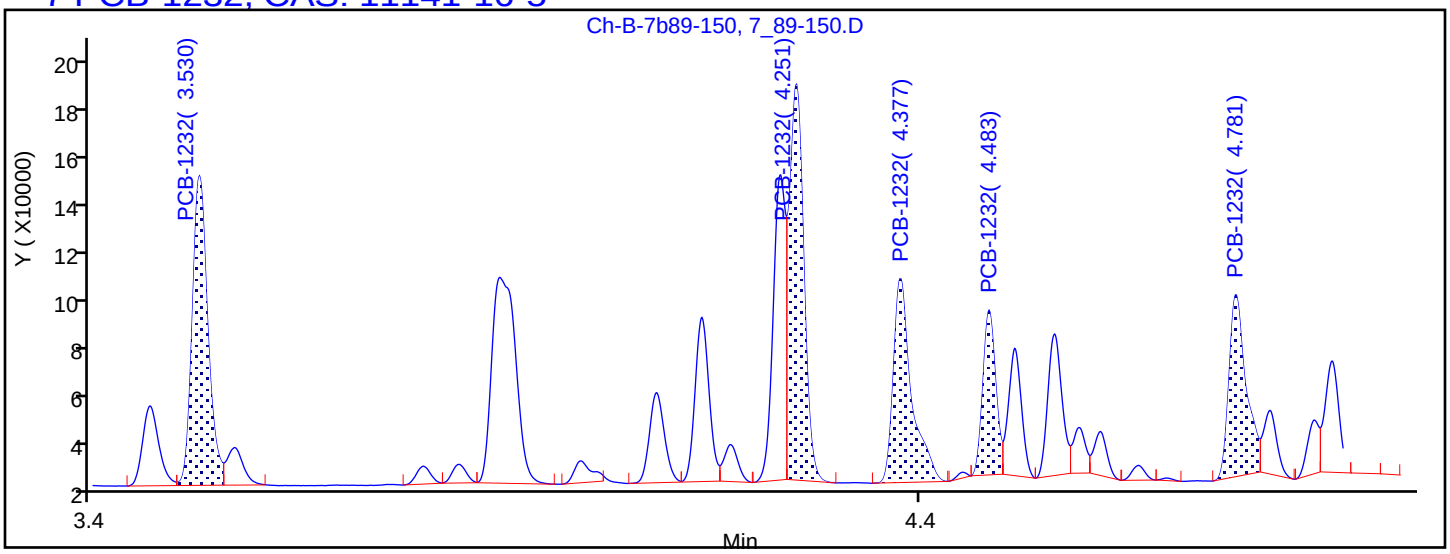
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

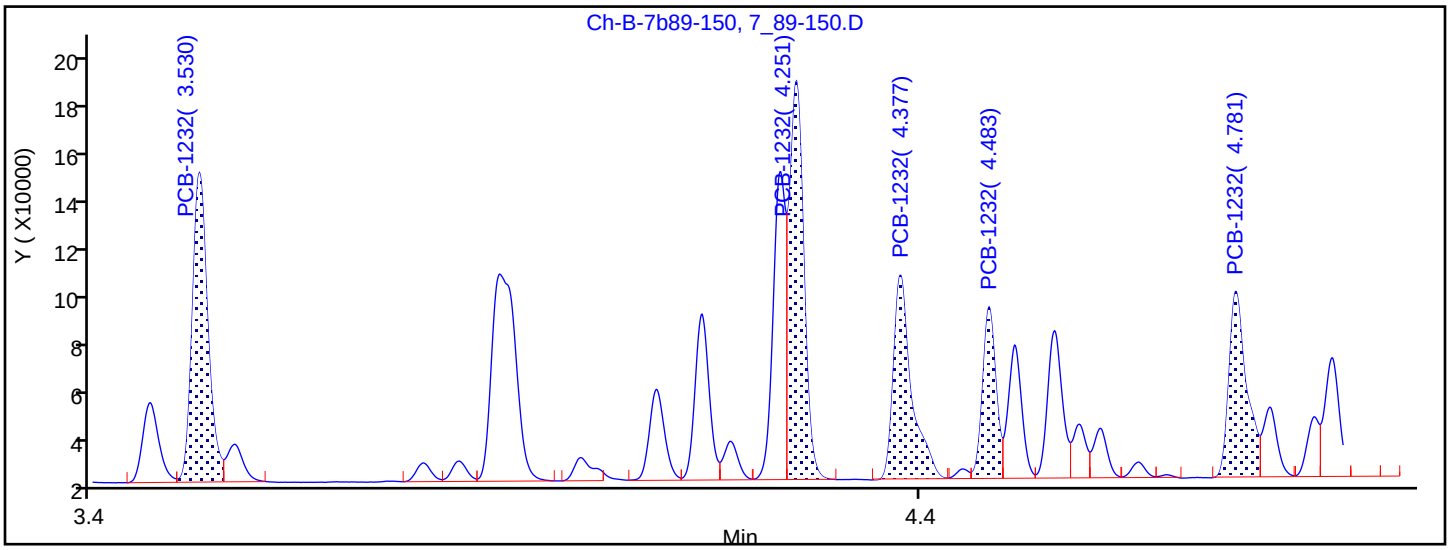
Column: ZB-35 (0.53 mm) Detector Ch-B-7b136

7 PCB-1232, CAS: 11141-16-5



Processing Integration Results

3.530	Response = 161258
4.251	Response = 190535
4.377	Response = 123025
4.483	Response = 70622
4.781	Response = 104369



Manual Integration Results

3.530	Response = 161258	
4.251	Response = 192734	M
4.377	Response = 122660	M
4.483	Response = 76753	M
4.781	Response = 109539	M

Reviewer: clarkda, 18-Feb-2021 14:41:17

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 19-Feb-2021 11:24:40 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-150.D

Injection Date: 18-Feb-2021 14:20:30 Instrument ID: HP6890-7

Lims ID: CCV

Client ID:

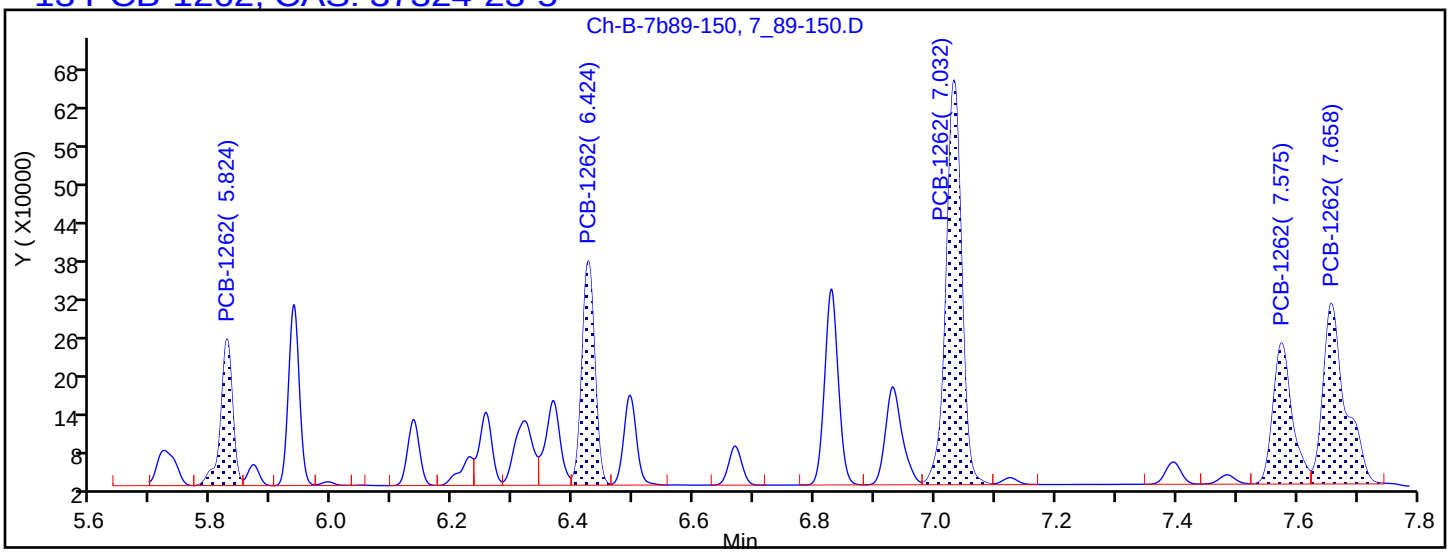
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

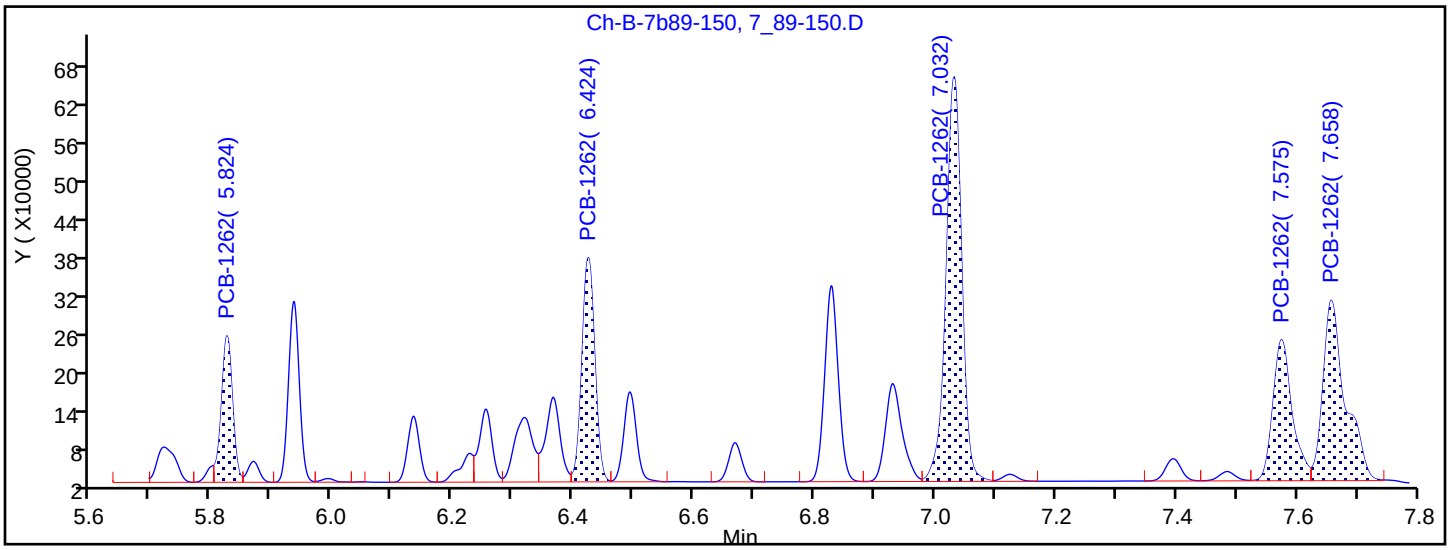
Column: ZB-35 (0.53 mm) Detector Ch-B-7b136

13 PCB-1262, CAS: 37324-23-5



Processing Integration Results

5.824	Response = 317489
6.424	Response = 520256
7.032	Response = 1137058
7.575	Response = 487280
7.658	Response = 721403



Manual Integration Results

5.824	Response = 295828	M
6.424	Response = 520256	
7.032	Response = 1137058	
7.575	Response = 487280	
7.658	Response = 721403	

Reviewer: chumongkolratn, 19-Feb-2021 11:23:13

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 480-569989/8 Calibration Date: 02/18/2021 14:36

Instrument ID: HP6890-7 Calib Start Date: 04/16/2020 20:03

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 04/16/2020 20:34

Lab File ID: 7_89-151.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Lin1		0.0207		0.494	0.500	-1.2	20.0
PCB-1242 Peak 2	Lin1		0.0627		0.553	0.500	10.6	20.0
PCB-1242 Peak 3	Lin1		0.0355		0.528	0.500	5.6	20.0
PCB-1242 Peak 4	Lin1		0.0233		0.507	0.500	1.4	20.0
PCB-1242 Peak 5	Lin1		0.0259		0.539	0.500	7.8	20.0
PCB-1268 Peak 1	Lin1		0.1816		0.554	0.500	10.8	20.0
PCB-1268 Peak 2	Lin1		0.1626		0.554	0.500	10.8	20.0
PCB-1268 Peak 3	Lin1		0.1407		0.563	0.500	12.7	20.0
PCB-1268 Peak 4	Lin1		0.0613		0.569	0.500	13.8	20.0
PCB-1268 Peak 5	Lin1		0.4473		0.580	0.500	16.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 480-569989/8 Calibration Date: 02/18/2021 14:36

Instrument ID: HP6890-7 Calib Start Date: 04/16/2020 20:03

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 04/16/2020 20:34

Lab File ID: 7_89-151.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	3.39	3.36	3.42
PCB-1242 Peak 2	4.12	4.09	4.15
PCB-1242 Peak 3	4.20	4.17	4.23
PCB-1242 Peak 4	4.27	4.24	4.30
PCB-1242 Peak 5	4.58	4.55	4.61
PCB-1268 Peak 1	7.36	7.33	7.39
PCB-1268 Peak 2	7.44	7.41	7.47
PCB-1268 Peak 3	7.87	7.84	7.90
PCB-1268 Peak 4	8.18	8.15	8.21
PCB-1268 Peak 5	8.87	8.84	8.90

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-151.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 18-Feb-2021 14:36:22 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub9

Method: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 19-Feb-2021 11:30:27 Calib Date: 23-Jul-2020 18:07:54
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1646

First Level Reviewer: chumongkolratn Date: 19-Feb-2021 11:30:27

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.070	2.070	0.000	6165813	0.5000	0.5000	
2	2.268	2.268	0.000	6441817	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							
1	3.385	3.385	0.000	127892	0.5000	0.4941	
1	4.117	4.117	0.000	386338	0.5000	0.5532	
1	4.204	4.204	0.000	219132	0.5000	0.5278	
1	4.273	4.273	0.000	143420	0.5000	0.5071	
1	4.582	4.582	0.000	159654	0.5000	0.5392	
		Average of Peak Amounts =				0.5243	
2	3.530	3.530	0.000	119157	0.5000	0.5349	
2	4.252	4.252	0.000	346142	0.5000	0.5501	
2	4.376	4.376	0.000	220548	0.5000	0.5786	
2	4.484	4.484	0.000	136536	0.5000	0.5859	
2	4.782	4.782	0.000	212872	0.5000	0.5839	
		Average of Peak Amounts =				0.5667	
						RPD = 7.77	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							
1	7.359	7.359	0.000	1119409	0.5000	0.5539	
1	7.436	7.436	0.000	1002306	0.5000	0.5540	
1	7.873	7.873	0.000	867429	0.5000	0.5635	
1	8.175	8.175	0.000	377923	0.5000	0.5690	
1	8.869	8.869	0.000	2758099	0.5000	0.5803	
		Average of Peak Amounts =				0.5641	
2	7.577	7.577	0.000	1278341	0.5000	0.6024	
2	7.657	7.657	0.000	1187760	0.5000	0.6021	
2	8.150	8.150	0.000	1031689	0.5000	0.6083	
2	8.528	8.528	0.000	420126	0.5000	0.5851	
2	9.292	9.292	0.000	3406870	0.5000	0.5891	
		Average of Peak Amounts =				0.5974	
						RPD = 5.73	

QC Flag Legend

Processing Flags

Reagents:

42-68w/IS@0.5_00082 Amount Added: 1.00 Units: mL

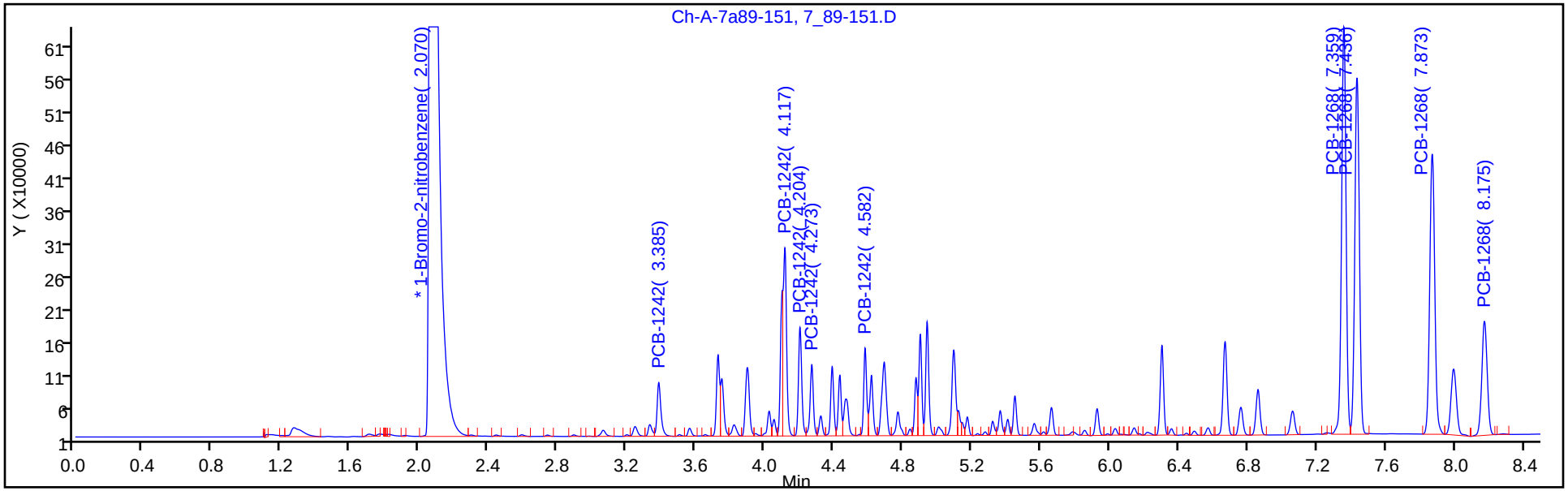
Report Date: 19-Feb-2021 11:30:27 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

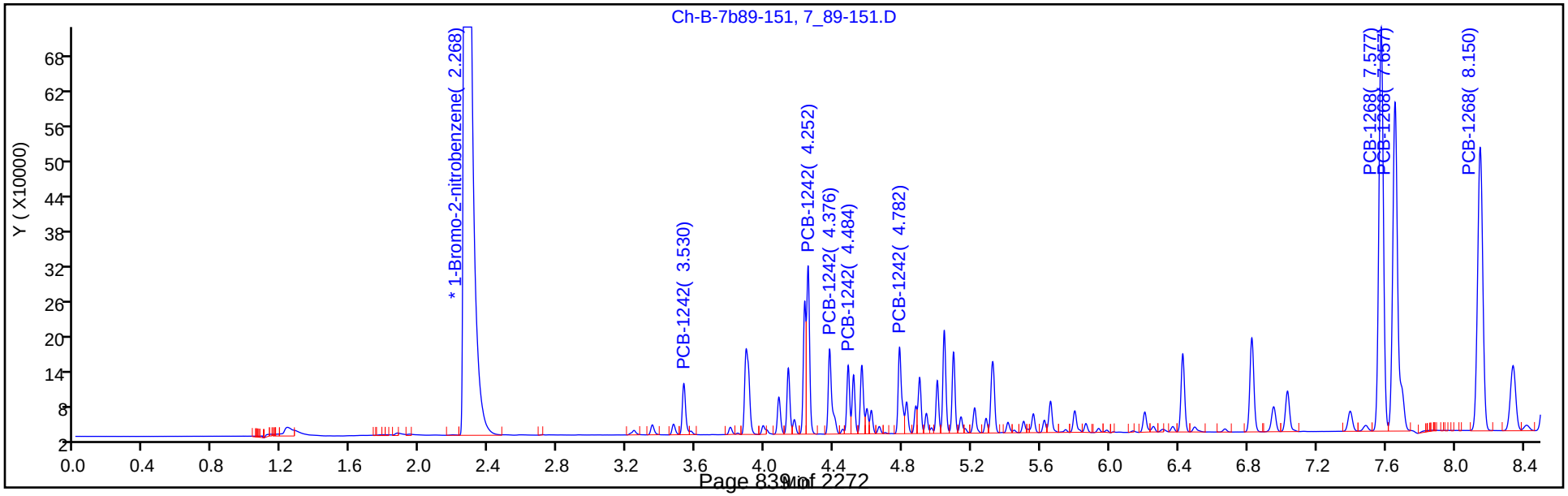
Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-151.D

Injection Date:	18-Feb-2021 14:36:22	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 480-569989/8 Calibration Date: 02/18/2021 14:36

Instrument ID: HP6890-7 Calib Start Date: 04/16/2020 20:03

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 04/16/2020 20:34

Lab File ID: 7_89-151.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Lin1		0.0185		0.535	0.500	7.0	20.0
PCB-1242 Peak 2	Lin1		0.0537		0.550	0.500	10.0	20.0
PCB-1242 Peak 3	Lin1		0.0342		0.579	0.500	15.7	20.0
PCB-1242 Peak 4	Lin1		0.0212		0.586	0.500	17.2	20.0
PCB-1242 Peak 5	Lin1		0.0330		0.584	0.500	16.8	20.0
PCB-1268 Peak 1	Lin1		0.1984		0.602	0.500	20.5*	20.0
PCB-1268 Peak 2	Lin1		0.1844		0.602	0.500	20.4*	20.0
PCB-1268 Peak 3	Lin1		0.1602		0.608	0.500	21.7*	20.0
PCB-1268 Peak 4	Lin1		0.0652		0.585	0.500	17.0	20.0
PCB-1268 Peak 5	Lin1		0.5289		0.589	0.500	17.8	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 480-569989/8 Calibration Date: 02/18/2021 14:36

Instrument ID: HP6890-7 Calib Start Date: 04/16/2020 20:03

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 04/16/2020 20:34

Lab File ID: 7_89-151.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	3.53	3.50	3.56
PCB-1242 Peak 2	4.25	4.22	4.28
PCB-1242 Peak 3	4.38	4.35	4.41
PCB-1242 Peak 4	4.48	4.45	4.51
PCB-1242 Peak 5	4.78	4.75	4.81
PCB-1268 Peak 1	7.58	7.55	7.61
PCB-1268 Peak 2	7.66	7.63	7.69
PCB-1268 Peak 3	8.15	8.12	8.18
PCB-1268 Peak 4	8.53	8.50	8.56
PCB-1268 Peak 5	9.29	9.26	9.32

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-151.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 18-Feb-2021 14:36:22 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub9

Method: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 19-Feb-2021 11:30:27 Calib Date: 23-Jul-2020 18:07:54
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1646

First Level Reviewer: chumongkolratn Date: 19-Feb-2021 11:30:27

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.070	2.070	0.000	6165813	0.5000	0.5000	
2	2.268	2.268	0.000	6441817	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							
1	3.385	3.385	0.000	127892	0.5000	0.4941	
1	4.117	4.117	0.000	386338	0.5000	0.5532	
1	4.204	4.204	0.000	219132	0.5000	0.5278	
1	4.273	4.273	0.000	143420	0.5000	0.5071	
1	4.582	4.582	0.000	159654	0.5000	0.5392	
		Average of Peak Amounts =				0.5243	
2	3.530	3.530	0.000	119157	0.5000	0.5349	
2	4.252	4.252	0.000	346142	0.5000	0.5501	
2	4.376	4.376	0.000	220548	0.5000	0.5786	
2	4.484	4.484	0.000	136536	0.5000	0.5859	
2	4.782	4.782	0.000	212872	0.5000	0.5839	
		Average of Peak Amounts =				0.5667	
						RPD = 7.77	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							
1	7.359	7.359	0.000	1119409	0.5000	0.5539	
1	7.436	7.436	0.000	1002306	0.5000	0.5540	
1	7.873	7.873	0.000	867429	0.5000	0.5635	
1	8.175	8.175	0.000	377923	0.5000	0.5690	
1	8.869	8.869	0.000	2758099	0.5000	0.5803	
		Average of Peak Amounts =				0.5641	
2	7.577	7.577	0.000	1278341	0.5000	0.6024	
2	7.657	7.657	0.000	1187760	0.5000	0.6021	
2	8.150	8.150	0.000	1031689	0.5000	0.6083	
2	8.528	8.528	0.000	420126	0.5000	0.5851	
2	9.292	9.292	0.000	3406870	0.5000	0.5891	
		Average of Peak Amounts =				0.5974	
						RPD = 5.73	

QC Flag Legend

Processing Flags

Reagents:

42-68w/IS@0.5_00082 Amount Added: 1.00 Units: mL

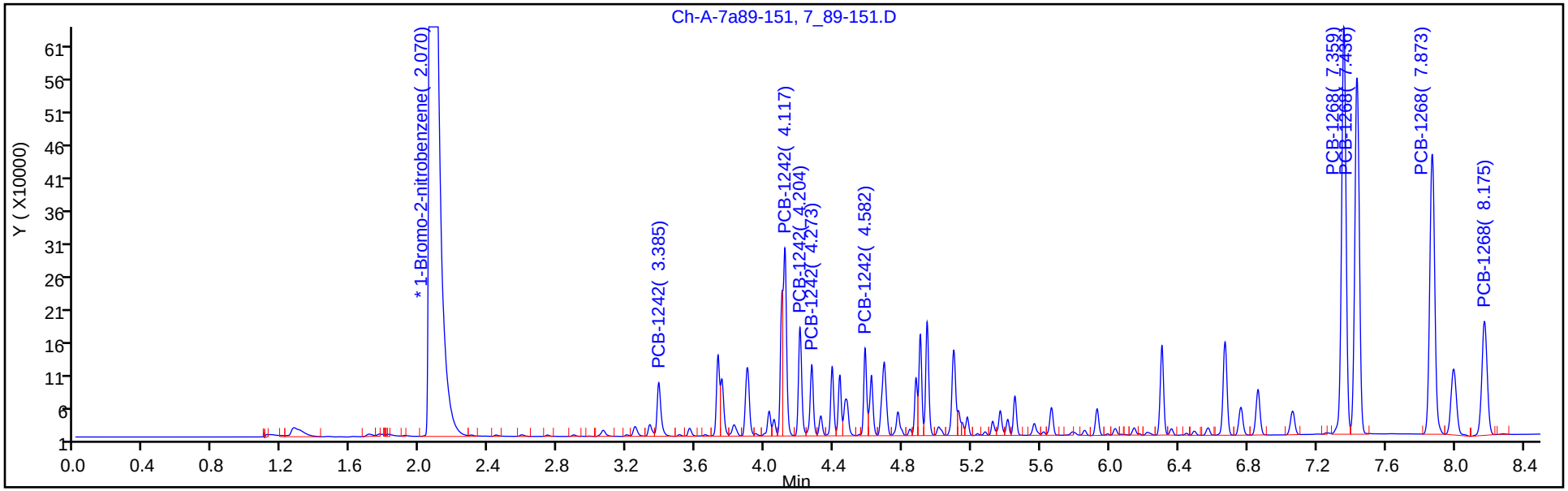
Report Date: 19-Feb-2021 11:30:28 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

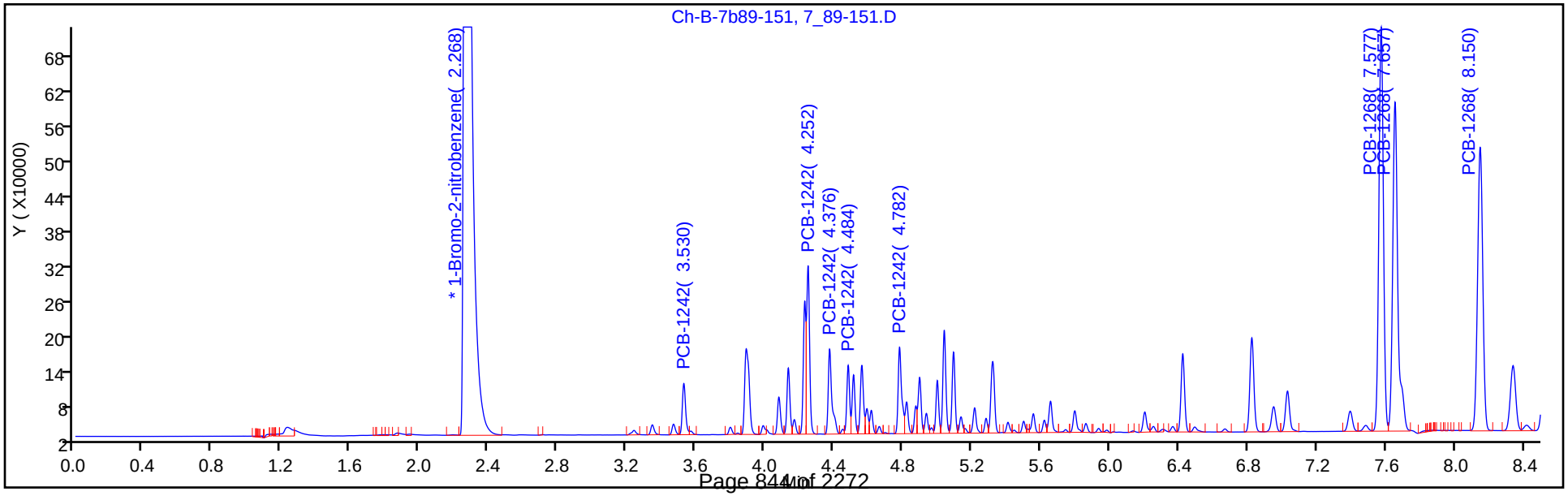
Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-151.D

Injection Date:	18-Feb-2021 14:36:22	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 480-569989/9 Calibration Date: 02/18/2021 14:52

Instrument ID: HP6890-7 Calib Start Date: 04/16/2020 21:06

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 04/16/2020 21:38

Lab File ID: 7_89-152.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Lin1		0.0393		0.530	0.500	6.0	20.0
PCB-1248 Peak 2	Lin1		0.0464		0.536	0.500	7.3	20.0
PCB-1248 Peak 3	Lin1		0.0572		0.546	0.500	9.1	20.0
PCB-1248 Peak 4	Lin1		0.0664		0.566	0.500	13.2	20.0
PCB-1248 Peak 5	Lin1		0.0310		0.545	0.500	9.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 480-569989/9 Calibration Date: 02/18/2021 14:52

Instrument ID: HP6890-7 Calib Start Date: 04/16/2020 21:06

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 04/16/2020 21:38

Lab File ID: 7_89-152.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	4.39	4.36	4.42
PCB-1248 Peak 2	4.58	4.55	4.61
PCB-1248 Peak 3	4.90	4.87	4.93
PCB-1248 Peak 4	4.94	4.91	4.97
PCB-1248 Peak 5	5.45	5.42	5.48

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-152.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 18-Feb-2021 14:52:16 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub10

Method: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 19-Feb-2021 11:31:07 Calib Date: 23-Jul-2020 18:07:54
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1646

First Level Reviewer: chumongkolratn Date: 19-Feb-2021 11:31:07

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.069	2.069	0.000	5894109	0.5000	0.5000	
2	2.268	2.268	0.000	6163612	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							
1	4.391	4.391	0.000	231377	0.5000	0.5302	
1	4.582	4.582	0.000	273333	0.5000	0.5363	
1	4.902	4.902	0.000	337046	0.5000	0.5457	
1	4.943	4.943	0.000	391227	0.5000	0.5659	
1	5.450	5.450	0.000	182609	0.5000	0.5454	
		Average of Peak Amounts =				0.5447	
2	4.515	4.515	0.000	224061	0.5000	0.5540	
2	4.562	4.562	0.000	220843	0.5000	0.5789	
2	4.782	4.782	0.000	299615	0.5000	0.5724	
2	5.041	5.041	0.000	390046	0.5000	0.5877	
2	5.321	5.321	0.000	292217	0.5000	0.6095	
		Average of Peak Amounts =				0.5805	
						RPD = 6.36	

QC Flag Legend
Processing Flags

Reagents:
1248w/IS@ 0.5_00079 Amount Added: 1.00 Units: mL

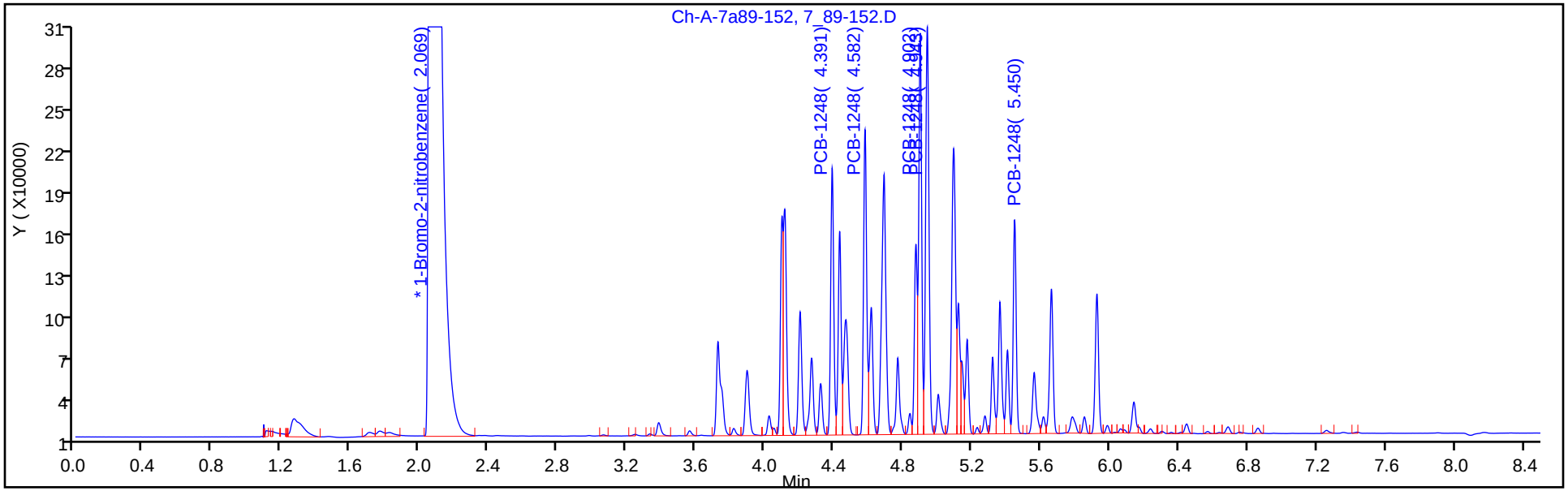
Report Date: 19-Feb-2021 11:31:07 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

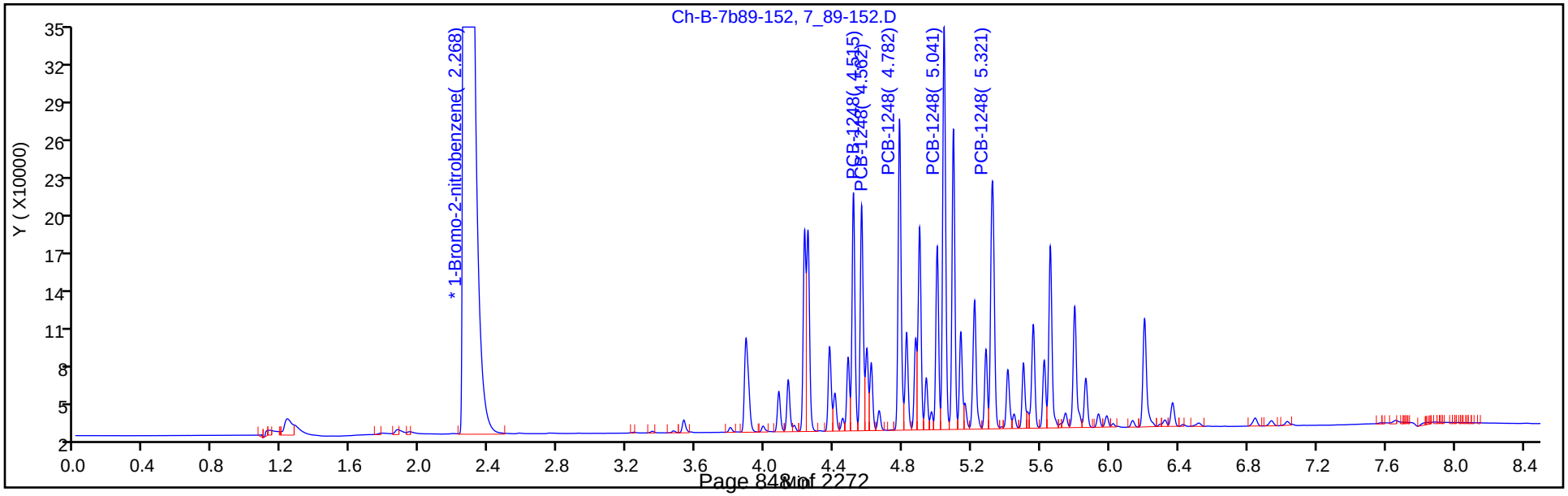
Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-152.D

Injection Date:	18-Feb-2021 14:52:16	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 480-569989/9 Calibration Date: 02/18/2021 14:52

Instrument ID: HP6890-7 Calib Start Date: 04/16/2020 21:06

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 04/16/2020 21:38

Lab File ID: 7_89-152.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Lin1		0.0364		0.554	0.500	10.8	20.0
PCB-1248 Peak 2	Lin1		0.0358		0.579	0.500	15.8	20.0
PCB-1248 Peak 3	Lin1		0.0486		0.572	0.500	14.5	20.0
PCB-1248 Peak 4	Lin1		0.0633		0.588	0.500	17.5	20.0
PCB-1248 Peak 5	Lin1		0.0474		0.609	0.500	21.9*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 480-569989/9 Calibration Date: 02/18/2021 14:52

Instrument ID: HP6890-7 Calib Start Date: 04/16/2020 21:06

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 04/16/2020 21:38

Lab File ID: 7_89-152.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	4.52	4.49	4.55
PCB-1248 Peak 2	4.56	4.53	4.59
PCB-1248 Peak 3	4.78	4.75	4.81
PCB-1248 Peak 4	5.04	5.01	5.07
PCB-1248 Peak 5	5.32	5.29	5.35

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-152.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 18-Feb-2021 14:52:16 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub10

Method: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 19-Feb-2021 11:31:07 Calib Date: 23-Jul-2020 18:07:54
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1646

First Level Reviewer: chumongkolratn Date: 19-Feb-2021 11:31:07

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.069	2.069	0.000	5894109	0.5000	0.5000	
2	2.268	2.268	0.000	6163612	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							
1	4.391	4.391	0.000	231377	0.5000	0.5302	
1	4.582	4.582	0.000	273333	0.5000	0.5363	
1	4.902	4.902	0.000	337046	0.5000	0.5457	
1	4.943	4.943	0.000	391227	0.5000	0.5659	
1	5.450	5.450	0.000	182609	0.5000	0.5454	
		Average of Peak Amounts =				0.5447	
2	4.515	4.515	0.000	224061	0.5000	0.5540	
2	4.562	4.562	0.000	220843	0.5000	0.5789	
2	4.782	4.782	0.000	299615	0.5000	0.5724	
2	5.041	5.041	0.000	390046	0.5000	0.5877	
2	5.321	5.321	0.000	292217	0.5000	0.6095	
		Average of Peak Amounts =				0.5805	
						RPD = 6.36	

QC Flag Legend
Processing Flags

Reagents:
1248w/IS@ 0.5_00079 Amount Added: 1.00 Units: mL

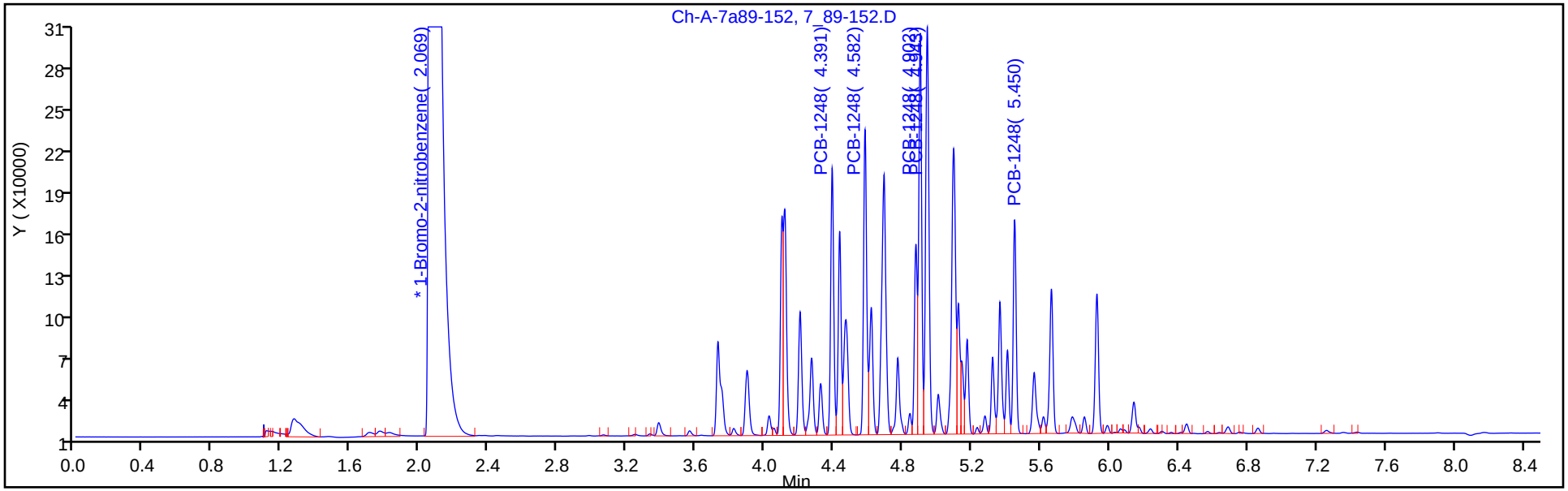
Report Date: 19-Feb-2021 11:31:07 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

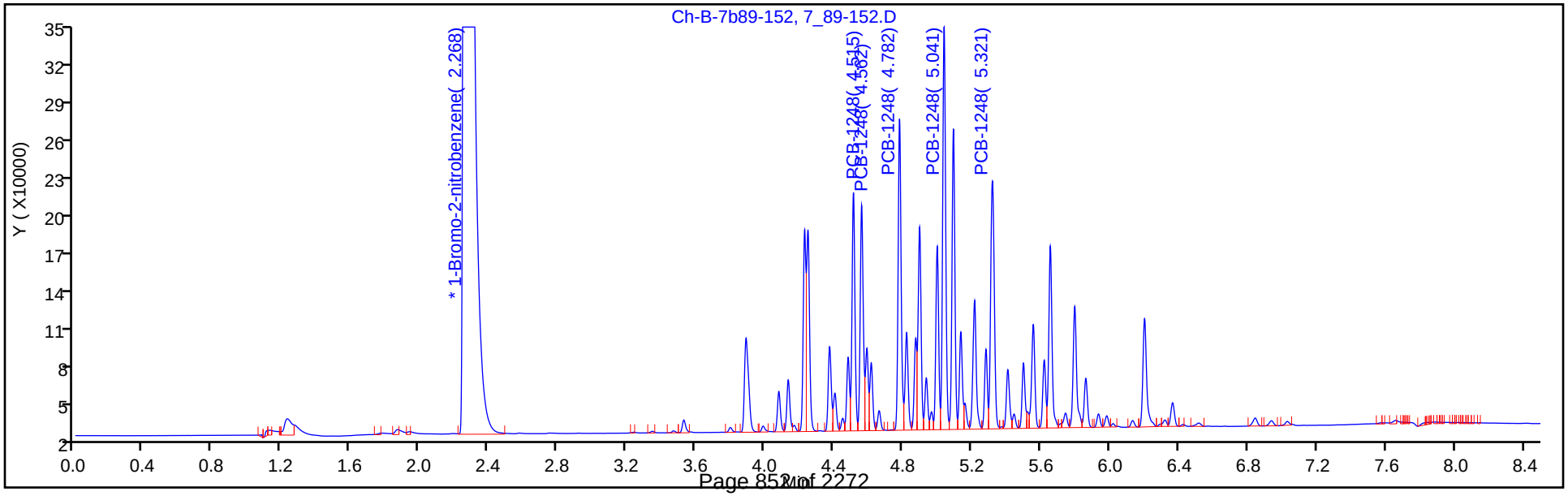
Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-152.D

Injection Date:	18-Feb-2021 14:52:16	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 480-569989/31 Calibration Date: 02/18/2021 20:40

Instrument ID: HP6890-7 Calib Start Date: 07/23/2020 16:32

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 07/23/2020 18:07

Lab File ID: 7_89-174.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.0212		0.434	0.500	-13.1	20.0
PCB-1016 Peak 2	Lin1		0.0651		0.431	0.500	-13.8	20.0
PCB-1016 Peak 3	Lin1		0.0385		0.452	0.500	-9.6	20.0
PCB-1016 Peak 4	Lin1		0.0250		0.434	0.500	-13.2	20.0
PCB-1016 Peak 5	Lin1		0.0303		0.452	0.500	-9.6	20.0
PCB-1260 Peak 1	Lin1		0.0536		0.435	0.500	-12.9	20.0
PCB-1260 Peak 2	Lin1		0.0619		0.453	0.500	-9.3	20.0
PCB-1260 Peak 3	Lin1		0.0692		0.420	0.500	-15.9	20.0
PCB-1260 Peak 4	Lin1		0.0465		0.444	0.500	-11.2	20.0
PCB-1260 Peak 5	Lin1		0.1202		0.454	0.500	-9.1	20.0
Tetrachloro-m-xylene	Lin1		1.241		0.0103	0.0125	-17.7	20.0
DCB Decachlorobiphenyl	Lin1		0.9829		0.0111	0.0125	-11.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 480-569989/31 Calibration Date: 02/18/2021 20:40

Instrument ID: HP6890-7 Calib Start Date: 07/23/2020 16:32

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 07/23/2020 18:07

Lab File ID: 7_89-174.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	3.39	3.35	3.41
PCB-1016 Peak 2	4.12	4.09	4.15
PCB-1016 Peak 3	4.21	4.17	4.23
PCB-1016 Peak 4	4.27	4.24	4.30
PCB-1016 Peak 5	4.69	4.66	4.72
PCB-1260 Peak 1	5.65	5.62	5.68
PCB-1260 Peak 2	5.86	5.82	5.88
PCB-1260 Peak 3	6.14	6.11	6.17
PCB-1260 Peak 4	6.57	6.54	6.60
PCB-1260 Peak 5	6.86	6.83	6.89
Tetrachloro-m-xylene	3.11	3.08	3.14
DCB Decachlorobiphenyl	9.52	9.49	9.55

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-174.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 18-Feb-2021 20:40:52 ALS Bottle#: 0 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 19-Feb-2021 11:49:25 Calib Date: 23-Jul-2020 18:07:54
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1646

First Level Reviewer: chumongkolratn Date: 19-Feb-2021 11:49:25

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.074	2.069	0.005	6592742	0.5000	0.5000	
2	2.273	2.268	0.005	6833451	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	3.112	3.107	0.005	204467	0.0125	0.0103	
2	3.072	3.067	0.005	207749	0.0125	0.0102	
						RPD = 0.84	
9 PCB-1016							
1	3.386	3.383	0.003	140075	0.5000	0.4343	
1	4.118	4.117	0.001	429418	0.5000	0.4310	
1	4.205	4.204	0.001	253957	0.5000	0.4518	
1	4.272	4.272	0.000	164751	0.5000	0.4341	
1	4.693	4.692	0.001	200077	0.5000	0.4520	
		Average of Peak Amounts =				0.4406	
2	4.253	4.250	0.002	409211	0.5000	0.4906	
2	4.378	4.376	0.002	255979	0.5000	0.4716	
2	4.485	4.483	0.002	145947	0.5000	0.4099	
2	4.783	4.782	0.001	201478	0.5000	0.4043	
2	4.899	4.898	0.001	95595	0.5000	0.3686	
		Average of Peak Amounts =				0.4290	
						RPD = 2.67	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	5.654	5.653	0.002	353496	0.5000	0.4355	
1	5.857	5.854	0.003	408151	0.5000	0.4534	
1	6.143	6.141	0.001	456394	0.5000	0.4203	
1	6.571	6.568	0.003	306718	0.5000	0.4439	
1	6.863	6.860	0.002	792684	0.5000	0.4543	
		Average of Peak Amounts =				0.4415	
2	5.826	5.825	0.001	326897	0.5000	0.4702	M
2	5.937	5.936	0.001	411559	0.5000	0.4822	
2	6.367	6.366	0.001	393209	0.5000	0.4730	
2	7.034	7.033	0.002	922013	0.5000	0.5020	
2	7.661	7.660	0.001	491881	0.5000	0.4240	
		Average of Peak Amounts =				0.4703	
						RPD = 6.33	
2 1260 Res 1							
1	7.260	7.258	0.002	392168	NC	NC	
2	7.661	7.660	0.001	491881	NC	NC	
4 1260 Res 2							
1	7.360	7.358	0.003	188448	NC	NC	
2	8.422	8.419	0.002	99626	NC	NC	
3 1260 Res 3							
1	7.440	7.438	0.003	224813	NC	NC	
2	8.530	8.528	0.002	251914	NC	NC	
$ 15 DCB Decachlorobiphenyl							
1	9.522	9.520	0.002	161995	0.0125	0.0111	
2	10.057	10.053	0.005	173902	0.0125	0.0112	
						RPD = 0.98	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.5_00124 Amount Added: 1.00 Units: mL

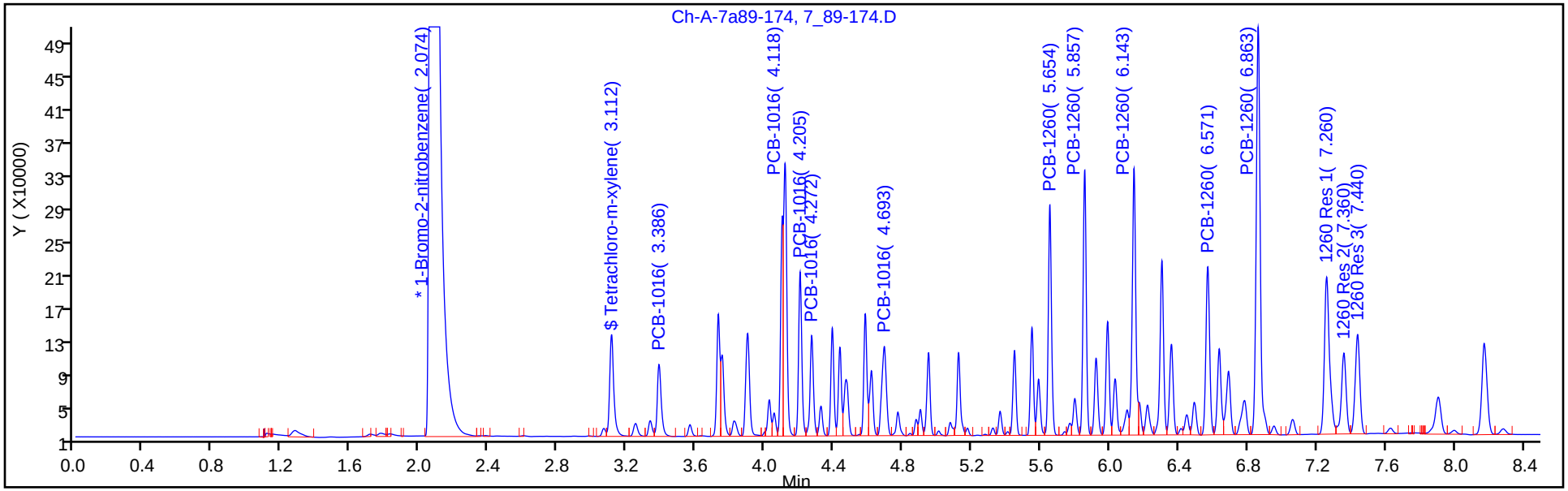
Report Date: 19-Feb-2021 11:49:26 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

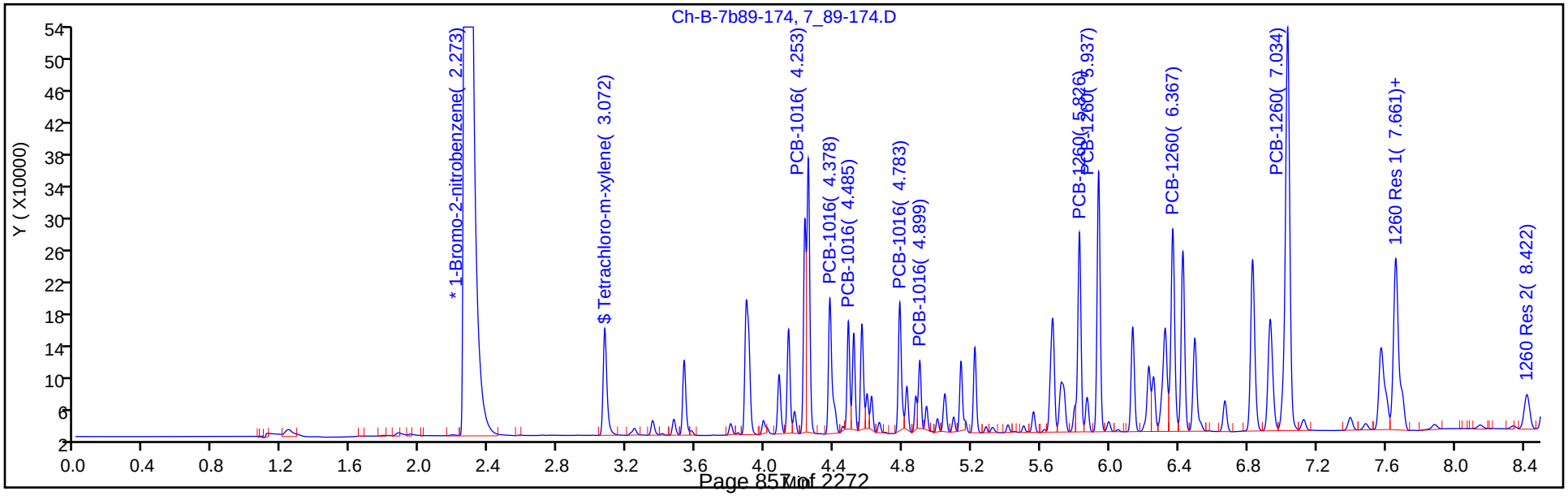
Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-174.D

Injection Date:	18-Feb-2021 20:40:52	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 480-569989/31 Calibration Date: 02/18/2021 20:40

Instrument ID: HP6890-7 Calib Start Date: 07/23/2020 16:32

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 07/23/2020 18:07

Lab File ID: 7_89-174.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.0599		0.491	0.500	-1.9	20.0
PCB-1016 Peak 2	Lin1		0.0375		0.472	0.500	-5.7	20.0
PCB-1016 Peak 3	Ave	0.0261	0.0214		0.410	0.500	-18.0	20.0
PCB-1016 Peak 4	Ave	0.0365	0.0295		0.404	0.500	-19.1	20.0
PCB-1016 Peak 5	Ave	0.0190	0.0140		0.369	0.500	-26.3*	20.0
PCB-1260 Peak 1	Lin1		0.0478		0.470	0.500	-6.0	20.0
PCB-1260 Peak 2	Lin1		0.0602		0.482	0.500	-3.6	20.0
PCB-1260 Peak 3	Lin1		0.0575		0.473	0.500	-5.4	20.0
PCB-1260 Peak 4	Lin1		0.1349		0.502	0.500	0.4	20.0
PCB-1260 Peak 5	Lin1		0.0720		0.424	0.500	-15.2	20.0
Tetrachloro-m-xylene	Lin1		1.216		0.0102	0.0125	-18.4	20.0
DCB Decachlorobiphenyl	Lin1		1.018		0.0112	0.0125	-10.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 480-569989/31 Calibration Date: 02/18/2021 20:40

Instrument ID: HP6890-7 Calib Start Date: 07/23/2020 16:32

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 07/23/2020 18:07

Lab File ID: 7_89-174.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	4.25	4.22	4.28
PCB-1016 Peak 2	4.38	4.35	4.41
PCB-1016 Peak 3	4.49	4.45	4.51
PCB-1016 Peak 4	4.78	4.75	4.81
PCB-1016 Peak 5	4.90	4.87	4.93
PCB-1260 Peak 1	5.83	5.80	5.86
PCB-1260 Peak 2	5.94	5.91	5.97
PCB-1260 Peak 3	6.37	6.34	6.40
PCB-1260 Peak 4	7.03	7.00	7.06
PCB-1260 Peak 5	7.66	7.63	7.69
Tetrachloro-m-xylene	3.07	3.04	3.10
DCB Decachlorobiphenyl	10.06	10.02	10.08

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-174.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 18-Feb-2021 20:40:52 ALS Bottle#: 0 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 19-Feb-2021 11:49:25 Calib Date: 23-Jul-2020 18:07:54
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1646

First Level Reviewer: chumongkolratn Date: 19-Feb-2021 11:49:25

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.074	2.069	0.005	6592742	0.5000	0.5000	
2	2.273	2.268	0.005	6833451	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	3.112	3.107	0.005	204467	0.0125	0.0103	
2	3.072	3.067	0.005	207749	0.0125	0.0102	
						RPD = 0.84	
9 PCB-1016							
1	3.386	3.383	0.003	140075	0.5000	0.4343	
1	4.118	4.117	0.001	429418	0.5000	0.4310	
1	4.205	4.204	0.001	253957	0.5000	0.4518	
1	4.272	4.272	0.000	164751	0.5000	0.4341	
1	4.693	4.692	0.001	200077	0.5000	0.4520	
		Average of Peak Amounts =				0.4406	
2	4.253	4.250	0.002	409211	0.5000	0.4906	
2	4.378	4.376	0.002	255979	0.5000	0.4716	
2	4.485	4.483	0.002	145947	0.5000	0.4099	
2	4.783	4.782	0.001	201478	0.5000	0.4043	
2	4.899	4.898	0.001	95595	0.5000	0.3686	
		Average of Peak Amounts =				0.4290	
						RPD = 2.67	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	5.654	5.653	0.002	353496	0.5000	0.4355	
1	5.857	5.854	0.003	408151	0.5000	0.4534	
1	6.143	6.141	0.001	456394	0.5000	0.4203	
1	6.571	6.568	0.003	306718	0.5000	0.4439	
1	6.863	6.860	0.002	792684	0.5000	0.4543	
		Average of Peak Amounts =				0.4415	
2	5.826	5.825	0.001	326897	0.5000	0.4702	M
2	5.937	5.936	0.001	411559	0.5000	0.4822	
2	6.367	6.366	0.001	393209	0.5000	0.4730	
2	7.034	7.033	0.002	922013	0.5000	0.5020	
2	7.661	7.660	0.001	491881	0.5000	0.4240	
		Average of Peak Amounts =				0.4703	
						RPD = 6.33	
2 1260 Res 1							
1	7.260	7.258	0.002	392168	NC	NC	
2	7.661	7.660	0.001	491881	NC	NC	
4 1260 Res 2							
1	7.360	7.358	0.003	188448	NC	NC	
2	8.422	8.419	0.002	99626	NC	NC	
3 1260 Res 3							
1	7.440	7.438	0.003	224813	NC	NC	
2	8.530	8.528	0.002	251914	NC	NC	
$ 15 DCB Decachlorobiphenyl							
1	9.522	9.520	0.002	161995	0.0125	0.0111	
2	10.057	10.053	0.005	173902	0.0125	0.0112	
						RPD = 0.98	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.5_00124 Amount Added: 1.00 Units: mL

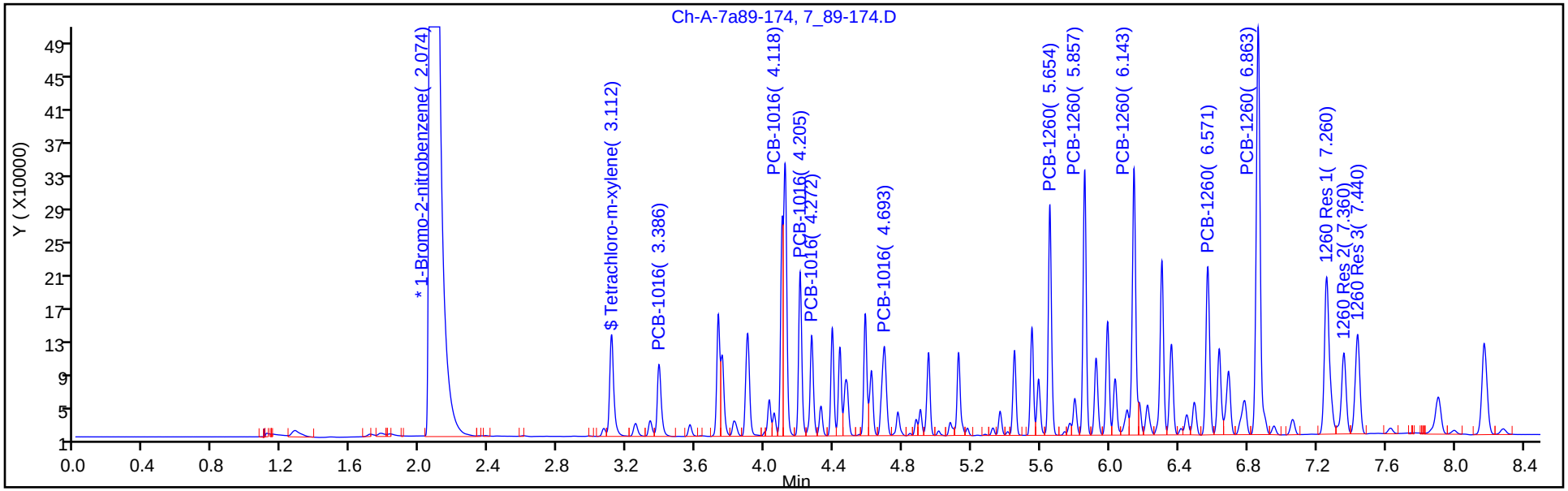
Report Date: 19-Feb-2021 11:49:26 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

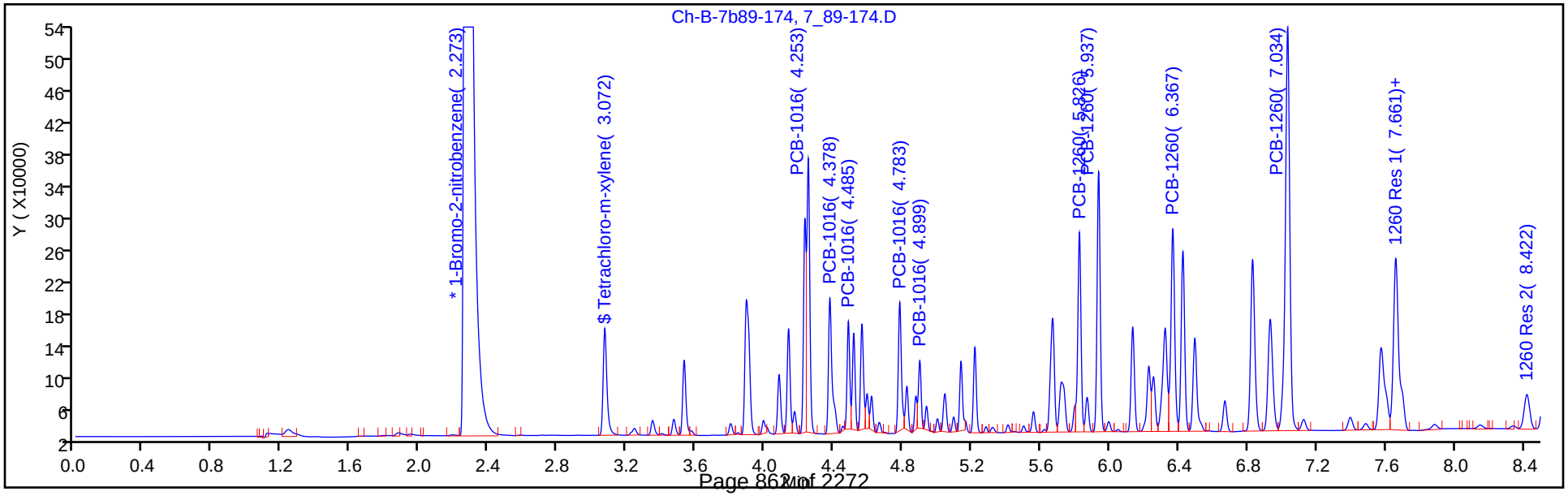
Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-174.D

Injection Date:	18-Feb-2021 20:40:52	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Report Date: 19-Feb-2021 11:49:26 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-174.D

Injection Date: 18-Feb-2021 20:40:52 Instrument ID: HP6890-7

Lims ID: CCV

Client ID:

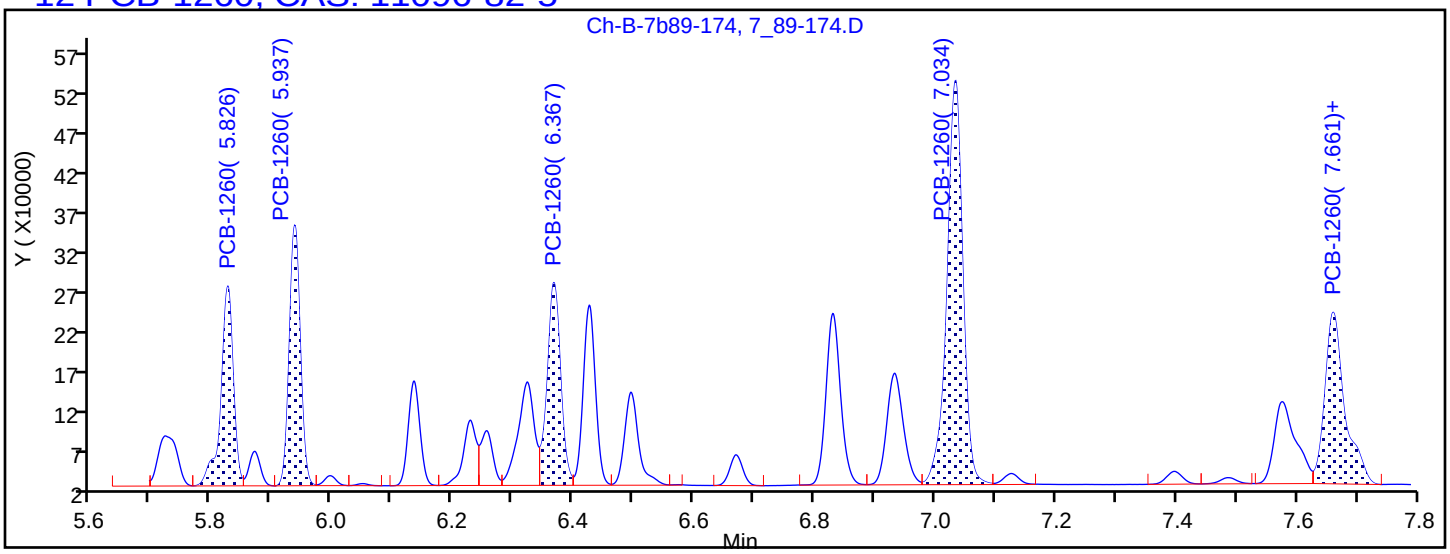
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 31

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

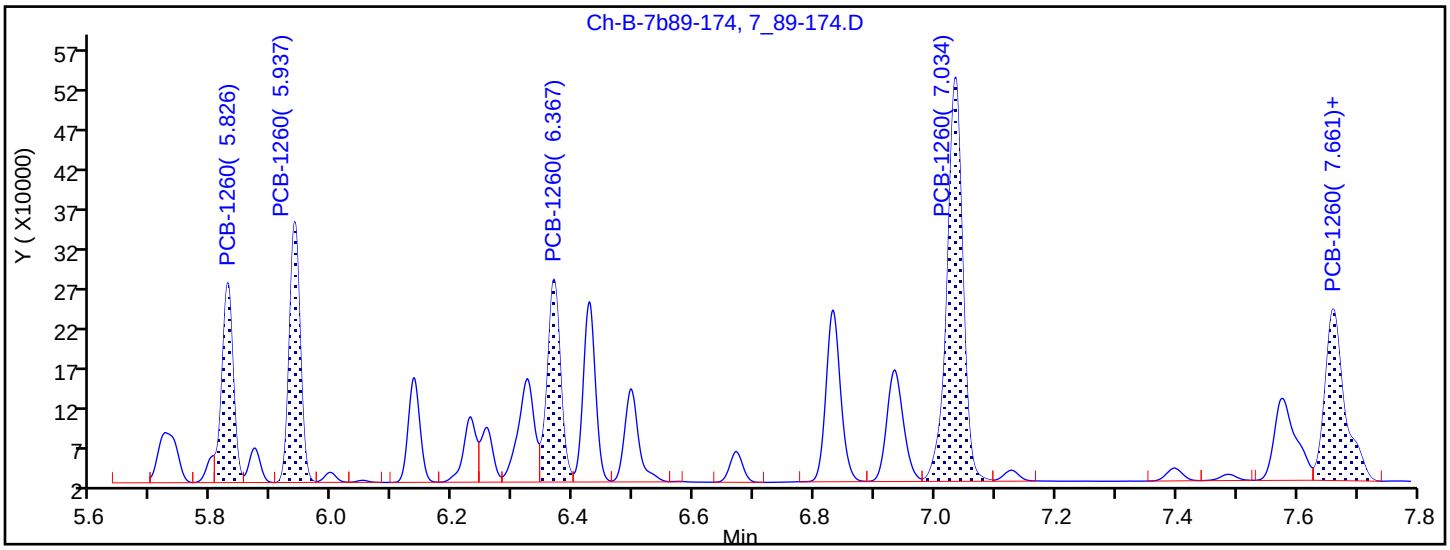
Column: ZB-35 (0.53 mm) Detector Ch-B-7b136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

5.826	Response = 356394
5.937	Response = 411559
6.367	Response = 393209
7.034	Response = 922013
7.661	Response = 491881



Manual Integration Results

5.826	Response = 326897	M
5.937	Response = 411559	
6.367	Response = 393209	
7.034	Response = 922013	
7.661	Response = 491881	

Reviewer: chumongkolratn, 19-Feb-2021 11:49:19

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 480-569918/1-A

Matrix: Water Lab File ID: 7_89-161.D

Analysis Method: 8082A Date Collected:

Extraction Method: 3510C Date Extracted: 02/18/2021 08:55

Sample wt/vol: 250(mL) Date Analyzed: 02/18/2021 17:14

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 569989 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.50	U	0.50	0.18
11104-28-2	PCB-1221	0.50	U	0.50	0.18
11141-16-5	PCB-1232	0.50	U	0.50	0.18
53469-21-9	PCB-1242	0.50	U	0.50	0.18
12672-29-6	PCB-1248	0.50	U	0.50	0.18
11097-69-1	PCB-1254	0.50	U	0.50	0.25
11096-82-5	PCB-1260	0.50	U	0.50	0.25
37324-23-5	PCB-1262	0.50	U	0.50	0.25
11100-14-4	PCB-1268	0.50	U	0.50	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	58		39-121
2051-24-3	DCB Decachlorobiphenyl	42		19-120

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-161.D
Lims ID: MB 480-569918/1-A
Client ID:
Sample Type: MB
Inject. Date: 18-Feb-2021 17:14:48 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 19-Feb-2021 11:42:24 Calib Date: 23-Jul-2020 18:07:54
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1646

First Level Reviewer: chumongkolratn Date: 19-Feb-2021 11:43:10

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.071	2.069	0.002	6150540	0.5000	0.5000	
2	2.270	2.268	0.002	6160212	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	3.112	3.107	0.005	222914	0.0200	0.0120	
2	3.073	3.067	0.005	213404	0.0200	0.0116	
						RPD = 3.31	
$ 15 DCB Decachlorobiphenyl							
1	9.525	9.520	0.005	109229	0.0200	0.007961	
2	10.063	10.053	0.010	118901	0.0200	0.008442	
						RPD = 5.87	

QC Flag Legend
Processing Flags

Reagents:
PCB IS 1B2NB_00073 Amount Added: 10.00 Units: uL Run Reagent

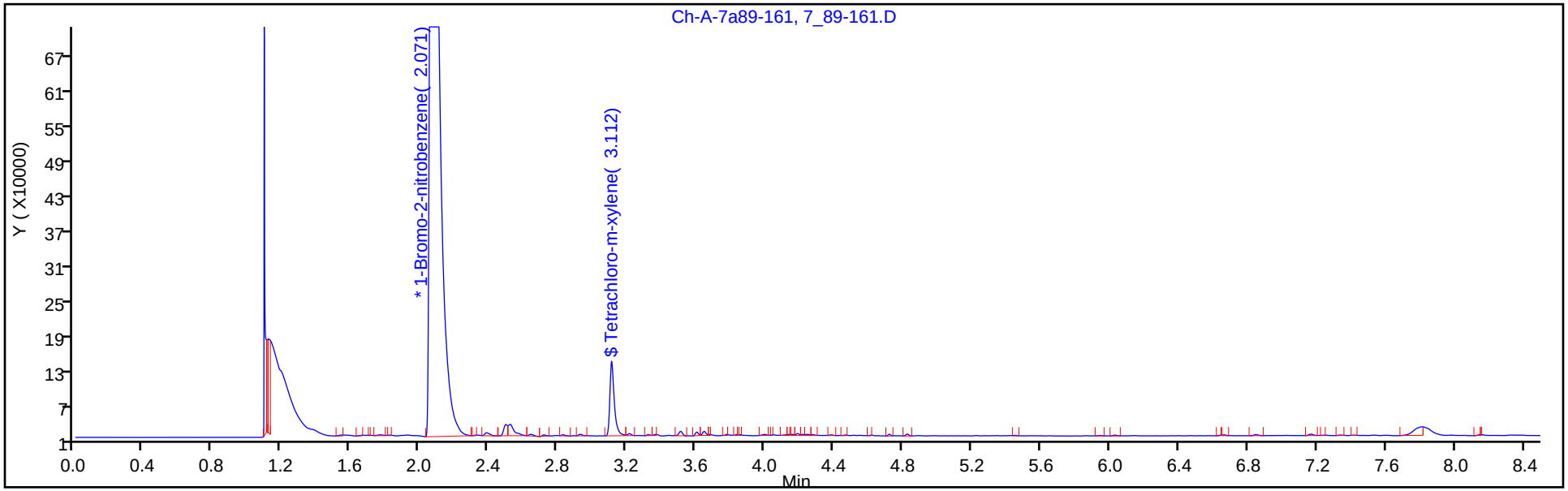
Report Date: 19-Feb-2021 11:43:11 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

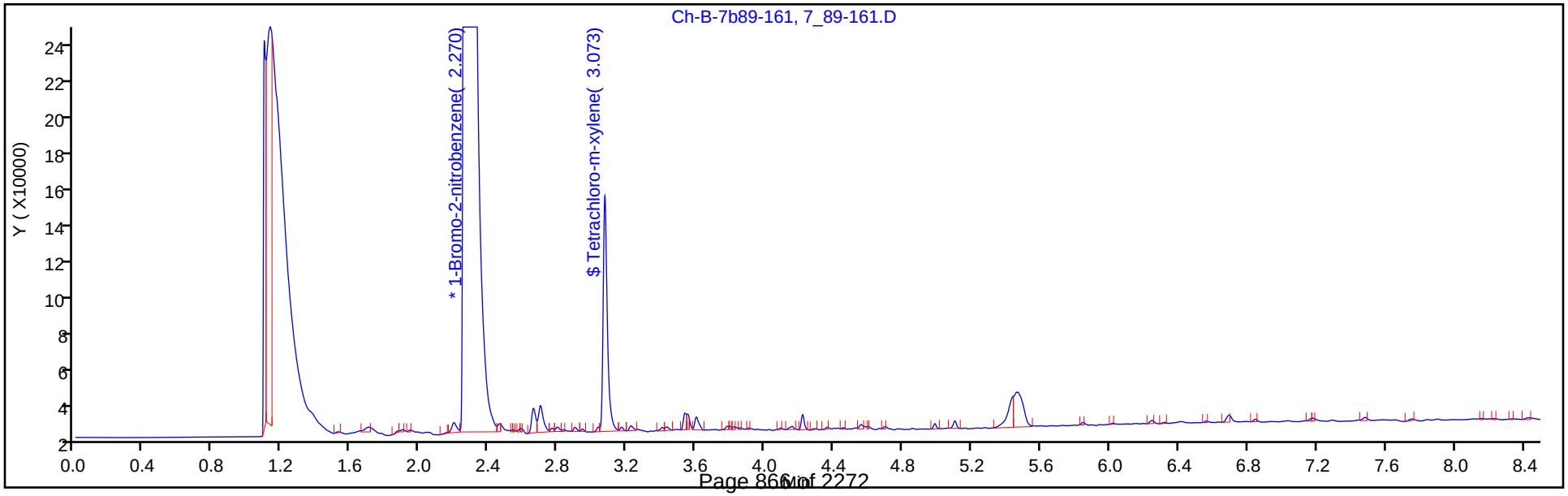
Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-161.D

Injection Date:	18-Feb-2021 17:14:48	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	MB 480-569918/1-A			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 480-570093/1-A

Matrix: Solid Lab File ID: 6_084-117.D

Analysis Method: 8082A Date Collected:

Extraction Method: 3550C Date Extracted: 02/19/2021 08:56

Sample wt/vol: 2.15(g) Date Analyzed: 02/21/2021 17:56

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 570176 Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	139		60-154
2051-24-3	DCB Decachlorobiphenyl	219	*	65-174

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-117.D
Lims ID: MB 480-570093/1-A
Client ID:
Sample Type: MB
Inject. Date: 21-Feb-2021 17:56:00 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 22-Feb-2021 11:22:02 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1630

First Level Reviewer: chumongkolratn Date: 22-Feb-2021 11:22:02

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.738	0.736	0.002	3781810	0.5000	0.5000	
2	0.830	0.828	0.002	11224958	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	1.329	1.326	0.003	250658	0.0200	0.0278	
2	1.301	1.298	0.003	822467	0.0200	0.0267	
						RPD = 3.97	
$ 15 DCB Decachlorobiphenyl							
1	5.522	5.521	0.001	159966	0.0200	0.0438	
2	5.638	5.635	0.003	484685	0.0200	0.0254	
						RPD = 53.35	

QC Flag Legend

Processing Flags

Reagents:

PCB IS 1B2NB_00073 Amount Added: 10.00 Units: uL Run Reagent

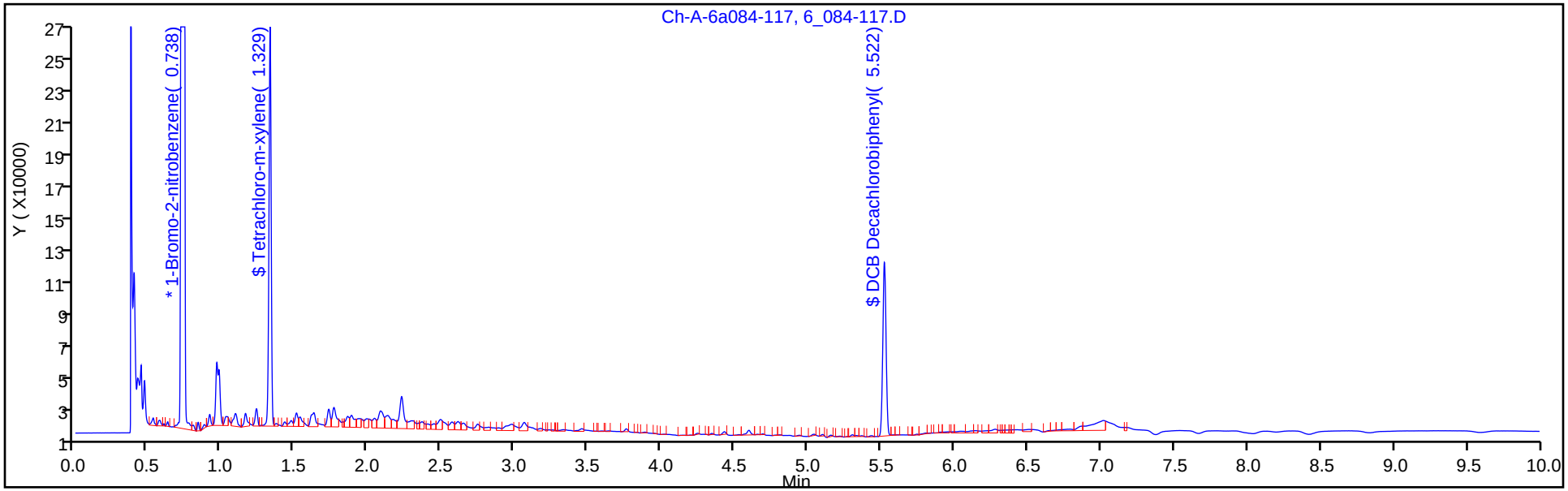
Report Date: 22-Feb-2021 11:22:03 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

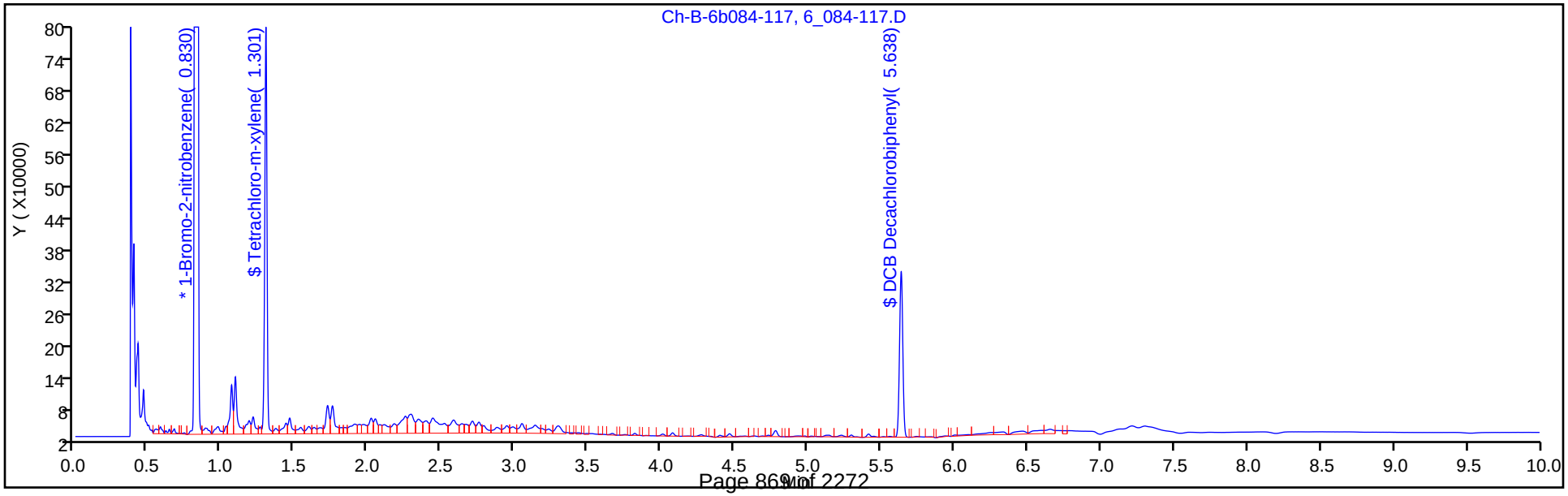
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-117.D

Injection Date:	21-Feb-2021 17:56:00	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	MB 480-570093/1-A			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 480-570093/1-A

Matrix: Solid Lab File ID: 6_084-117.D

Analysis Method: 8082A Date Collected:

Extraction Method: 3550C Date Extracted: 02/19/2021 08:56

Sample wt/vol: 2.15(g) Date Analyzed: 02/21/2021 17:56

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 570176 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.23	U	0.23	0.045
11104-28-2	PCB-1221	0.23	U	0.23	0.045
11141-16-5	PCB-1232	0.23	U	0.23	0.045
53469-21-9	PCB-1242	0.23	U	0.23	0.045
12672-29-6	PCB-1248	0.23	U	0.23	0.045
11097-69-1	PCB-1254	0.23	U	0.23	0.11
11096-82-5	PCB-1260	0.23	U	0.23	0.11
37324-23-5	PCB-1262	0.23	U	0.23	0.11
11100-14-4	PCB-1268	0.23	U	0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	133		60-154
2051-24-3	DCB Decachlorobiphenyl	127		65-174

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-117.D
Lims ID: MB 480-570093/1-A
Client ID:
Sample Type: MB
Inject. Date: 21-Feb-2021 17:56:00 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 22-Feb-2021 11:22:02 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1630

First Level Reviewer: chumongkolratn Date: 22-Feb-2021 11:22:02

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.738	0.736	0.002	3781810	0.5000	0.5000	
2	0.830	0.828	0.002	11224958	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	1.329	1.326	0.003	250658	0.0200	0.0278	
2	1.301	1.298	0.003	822467	0.0200	0.0267	
						RPD = 3.97	
$ 15 DCB Decachlorobiphenyl							
1	5.522	5.521	0.001	159966	0.0200	0.0438	
2	5.638	5.635	0.003	484685	0.0200	0.0254	
						RPD = 53.35	

QC Flag Legend
Processing Flags

Reagents:
PCB IS 1B2NB_00073 Amount Added: 10.00 Units: uL Run Reagent

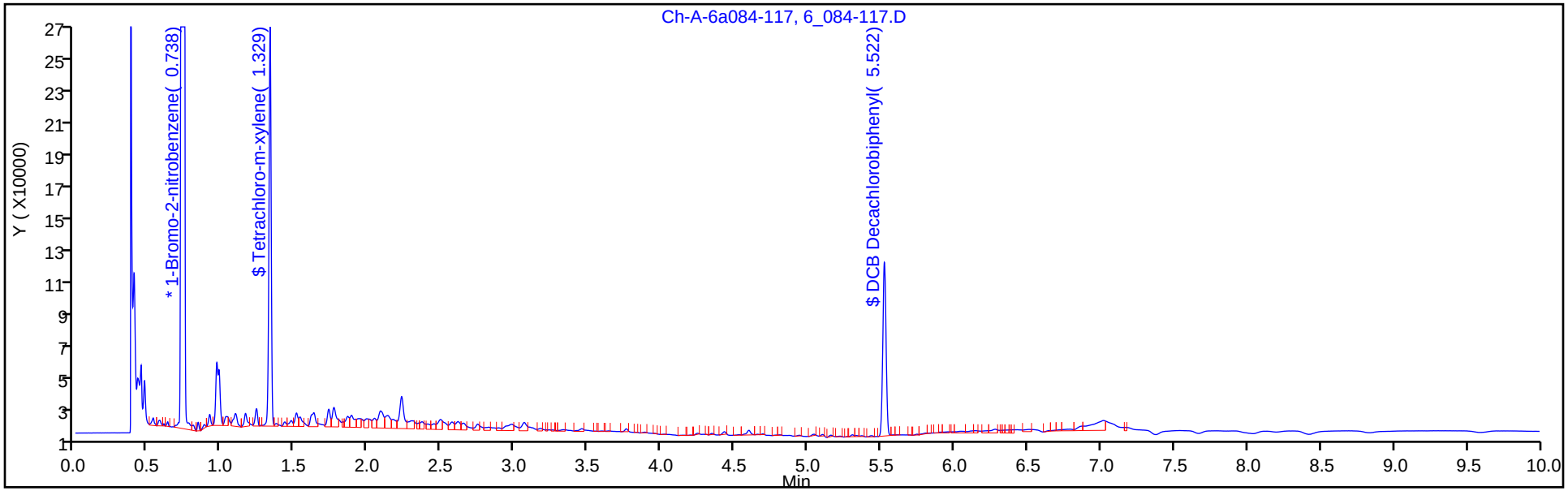
Report Date: 22-Feb-2021 11:22:03 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

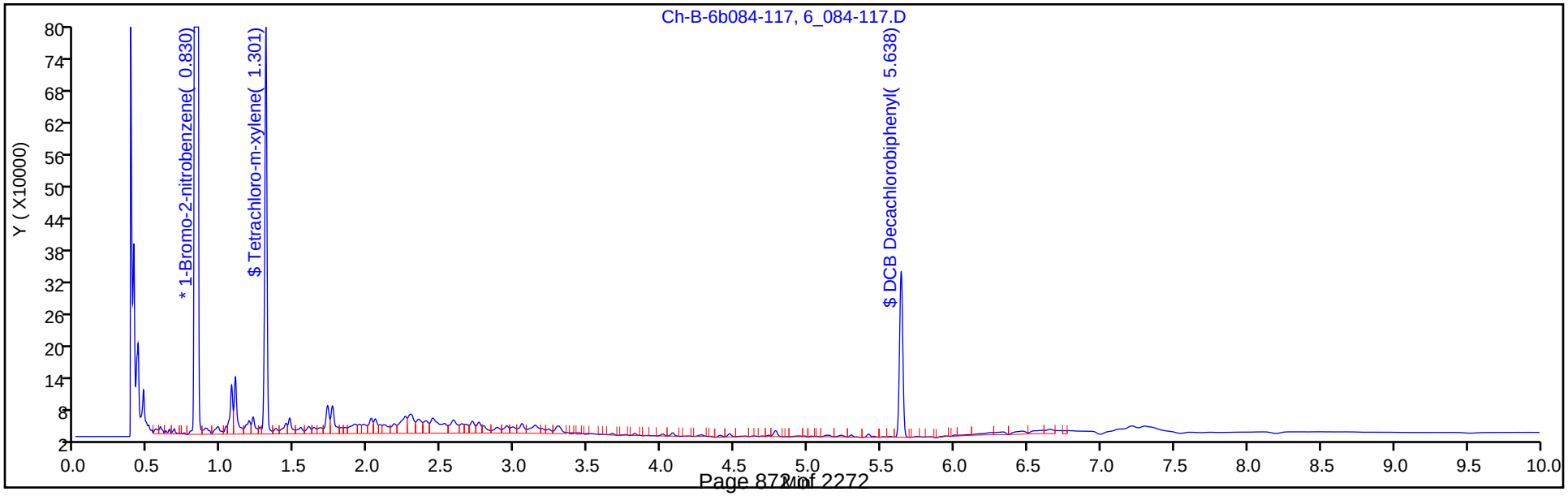
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-117.D

Injection Date:	21-Feb-2021 17:56:00	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	MB 480-570093/1-A			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-569918/2-A

Matrix: Water Lab File ID: 7_89-162.D

Analysis Method: 8082A Date Collected:

Extraction Method: 3510C Date Extracted: 02/18/2021 08:55

Sample wt/vol: 250(mL) Date Analyzed: 02/18/2021 17:30

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 569989 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	2.67		0.50	0.18
11096-82-5	PCB-1260	2.88		0.50	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	61		39-121
2051-24-3	DCB Decachlorobiphenyl	42		19-120

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-162.D
Lims ID: LCS 480-569918/2-A
Client ID:
Sample Type: LCS
Inject. Date: 18-Feb-2021 17:30:39 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 19-Feb-2021 11:43:29 Calib Date: 23-Jul-2020 18:07:54
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-07\20200723-92290.b\7_72-295.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1646

First Level Reviewer: chumongkolratn Date: 19-Feb-2021 11:43:29

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	2.071	2.069	0.002	6260918	0.5000	0.5000	
2	2.269	2.268	0.001	6271476	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	3.111	3.107	0.004	225486	0.0200	0.0120	
2	3.072	3.067	0.005	225900	0.0200	0.0121	
						RPD = 1.27	
9 PCB-1016							
1	3.387	3.383	0.004	96614	0.5000	0.3133	
1	4.118	4.117	0.001	312311	0.5000	0.3295	
1	4.208	4.204	0.004	188537	0.5000	0.3516	
1	4.275	4.272	0.003	124741	0.5000	0.3444	
1	4.695	4.692	0.003	139087	0.5000	0.3286	
		Average of Peak Amounts =				0.3335	
2	4.253	4.250	0.002	290948	0.5000	0.3788	
2	4.379	4.376	0.003	175874	0.5000	0.3504	
2	4.486	4.483	0.003	104768	0.5000	0.3206	
2	4.784	4.782	0.002	146631	0.5000	0.3206	
2	4.900	4.898	0.002	71237	0.5000	0.2993	
		Average of Peak Amounts =				0.3339	
						RPD = 0.14	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	5.657	5.653	0.005	253871	0.5000	0.3277	
1	5.858	5.854	0.004	294240	0.5000	0.3427	
1	6.144	6.141	0.003	360234	0.5000	0.3485	
1	6.572	6.568	0.004	215285	0.5000	0.3260	
1	6.866	6.860	0.006	548815	0.5000	0.3300	
		Average of Peak Amounts =				0.3350	
2	5.828	5.825	0.003	237349	0.5000	0.3698	M
2	5.939	5.936	0.003	295187	0.5000	0.3749	
2	6.369	6.366	0.003	284550	0.5000	0.3713	
2	7.035	7.033	0.003	625596	0.5000	0.3700	
2	7.663	7.660	0.003	335247	0.5000	0.3119	
		Average of Peak Amounts =				0.3596	
						RPD = 7.09	
$ 15 DCB Decachlorobiphenyl							
1	9.526	9.520	0.006	110411	0.0200	0.007903	
2	10.060	10.053	0.008	119177	0.0200	0.008307	
						RPD = 4.97	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PCB IS 1B2NB_00073 Amount Added: 10.00 Units: uL Run Reagent

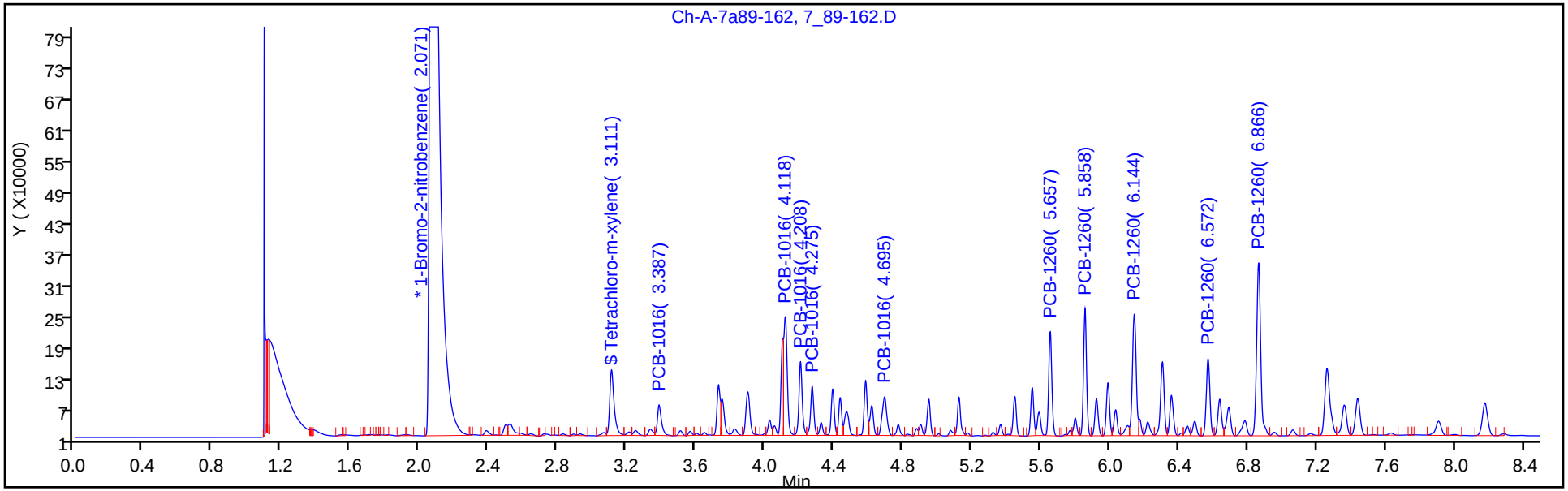
Report Date: 19-Feb-2021 11:43:30 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

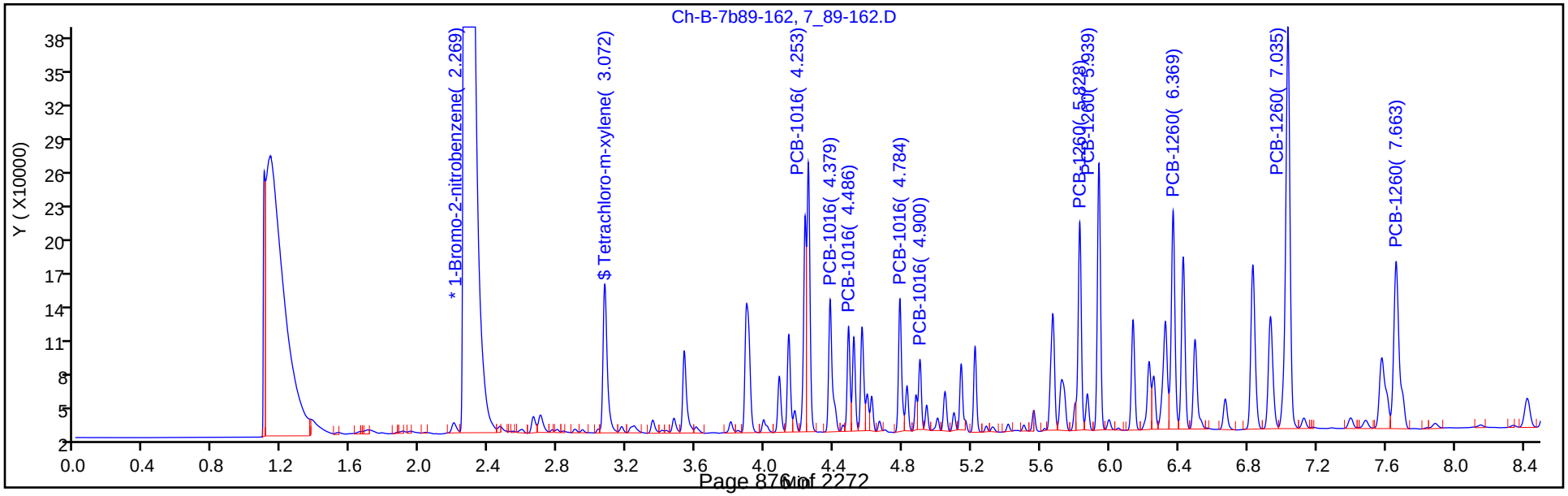
Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-162.D

Injection Date:	18-Feb-2021 17:30:39	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	LCS 480-569918/2-A			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Report Date: 19-Feb-2021 11:43:30 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP6890-07\20210218-96744.b\7_89-162.D

Injection Date: 18-Feb-2021 17:30:39 Instrument ID: HP6890-7

Lims ID: LCS 480-569918/2-A

Client ID:

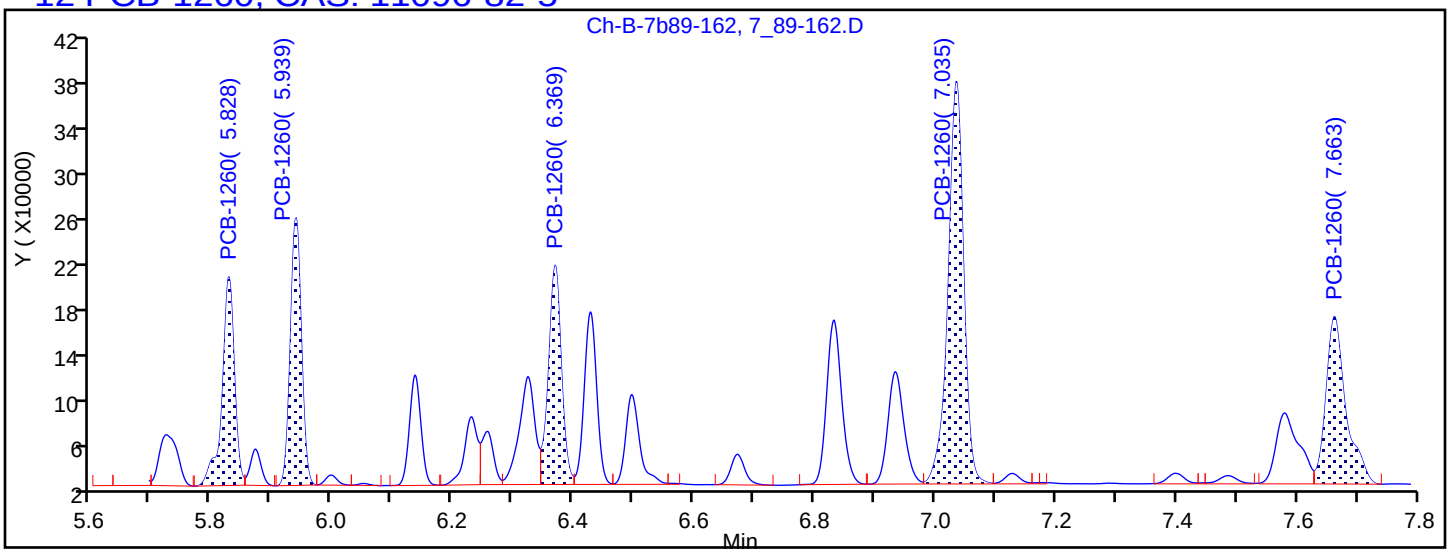
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 19

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

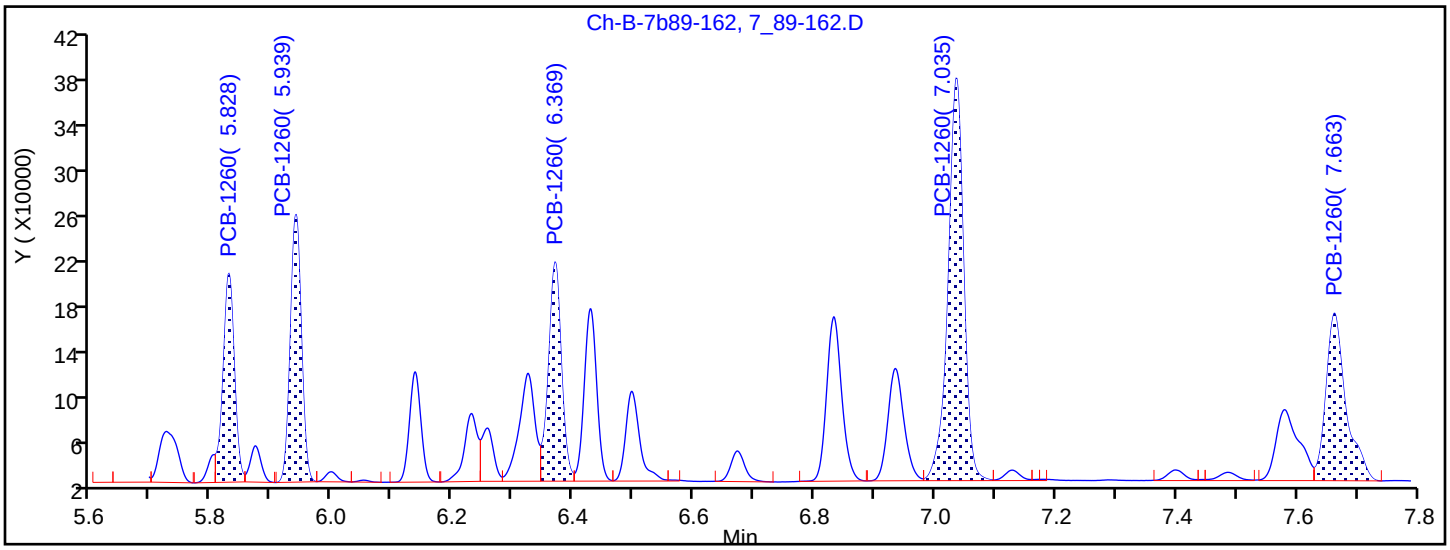
Column: ZB-35 (0.53 mm) Detector Ch-B-7b136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

5.828	Response = 258009
5.939	Response = 295187
6.369	Response = 284550
7.035	Response = 625596
7.663	Response = 335247



Manual Integration Results

5.828	Response = 237349	M
5.939	Response = 295187	
6.369	Response = 284550	
7.035	Response = 625596	
7.663	Response = 335247	

Reviewer: chumongkolratn, 19-Feb-2021 11:43:27

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-570093/2-A

Matrix: Solid Lab File ID: 6_084-118.D

Analysis Method: 8082A Date Collected:

Extraction Method: 3550C Date Extracted: 02/19/2021 08:56

Sample wt/vol: 2.03(g) Date Analyzed: 02/21/2021 18:08

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 570176 Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	141		60-154
2051-24-3	DCB Decachlorobiphenyl	217	*	65-174

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-118.D
Lims ID: LCS 480-570093/2-A
Client ID:
Sample Type: LCS
Inject. Date: 21-Feb-2021 18:08:27 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 22-Feb-2021 11:22:02 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1630

First Level Reviewer: chumongkolratn Date: 22-Feb-2021 11:22:28

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.737	0.736	0.001	4018599	0.5000	0.5000	
2	0.829	0.828	0.001	12007611	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	1.328	1.326	0.002	270902	0.0200	0.0282	
2	1.300	1.298	0.002	848486	0.0200	0.0257	
						RPD = 9.31	
6 PCB-1016							
1	1.927	1.924	0.003	134196	0.5000	0.5598	
1	2.104	2.103	0.002	396099	0.5000	0.5365	
1	2.177	2.174	0.003	139390	0.5000	0.5037	
1	2.230	2.228	0.002	103273	0.5000	0.5341	
1	2.586	2.583	0.003	88147	0.5000	0.4278	
		Average of Peak Amounts =				0.5124	
2	2.233	2.231	0.001	1474375	0.5000	0.5904	
2	2.338	2.335	0.003	613084	0.5000	0.6281	
2	2.425	2.423	0.003	419087	0.5000	0.6323	
2	2.690	2.689	0.001	663004	0.5000	0.5924	
2	2.786	2.784	0.002	486303	0.5000	0.6179	
		Average of Peak Amounts =				0.6122	
						RPD = 17.75	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							
1	3.438	3.438	0.000	201318	0.5000	0.8578	
1	3.618	3.618	0.000	330529	0.5000	0.7563	
1	3.828	3.828	0.000	327588	0.5000	0.6451	
1	4.132	4.132	0.000	161121	0.5000	0.5114	
1	4.338	4.337	0.001	482340	0.5000	0.6566	
		Average of Peak Amounts =				0.6854	
2	3.600	3.598	0.002	816044	0.5000	0.6179	
2	3.707	3.705	0.002	836163	0.5000	0.5877	
2	4.007	4.004	0.003	815259	0.5000	0.6210	
2	4.447	4.445	0.002	1641274	0.5000	0.6166	
2	4.765	4.763	0.002	1077716	0.5000	0.5827	
		Average of Peak Amounts =				0.6052	
						RPD = 12.44	
$ 15 DCB Decachlorobiphenyl							
1	5.522	5.521	0.001	167994	0.0200	0.0433	
2	5.638	5.635	0.003	519186	0.0200	0.0254	
						RPD = 52.13	

QC Flag Legend

Processing Flags

Reagents:

PCB IS 1B2NB_00073 Amount Added: 10.00 Units: uL Run Reagent

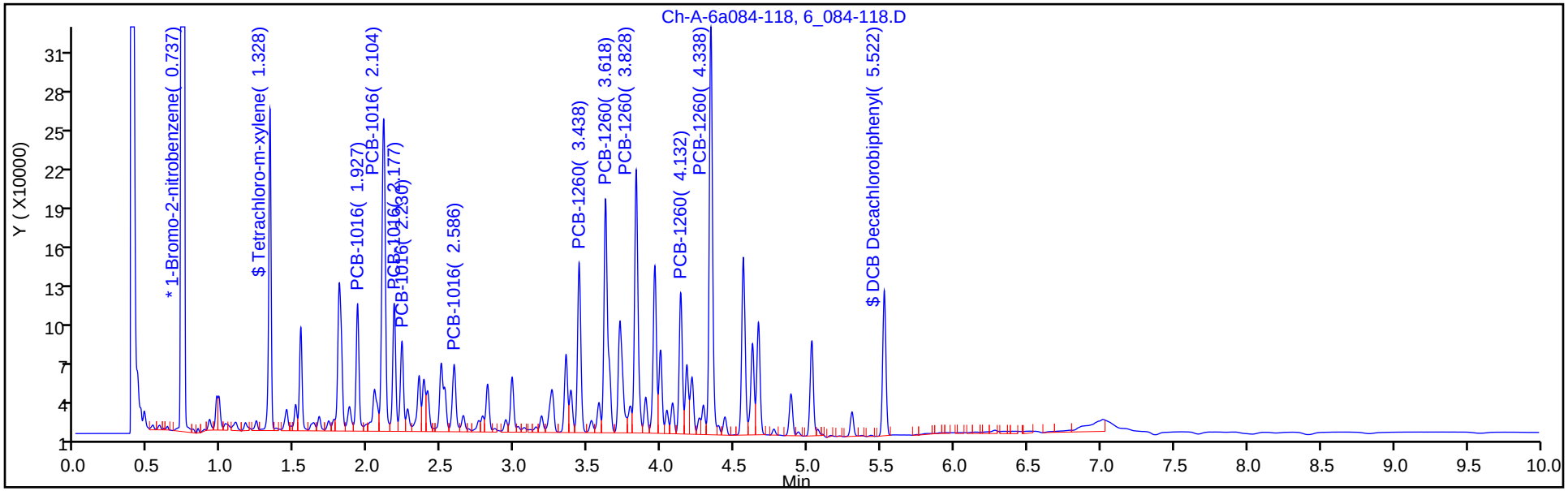
Report Date: 22-Feb-2021 11:22:28 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

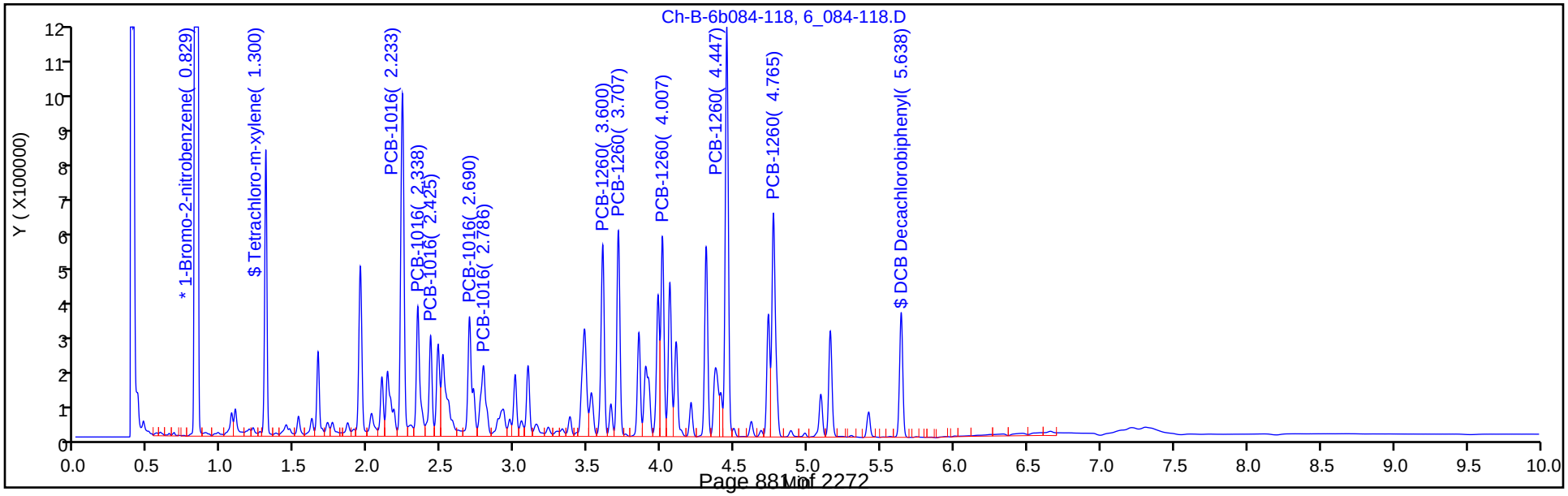
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-118.D

Injection Date:	21-Feb-2021 18:08:27	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	LCS 480-570093/2-A			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-570093/2-A

Matrix: Solid Lab File ID: 6_084-118.D

Analysis Method: 8082A Date Collected:

Extraction Method: 3550C Date Extracted: 02/19/2021 08:56

Sample wt/vol: 2.03(g) Date Analyzed: 02/21/2021 18:08

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 570176 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	3.02		0.25	0.048
11096-82-5	PCB-1260	2.98		0.25	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	129		60-154
2051-24-3	DCB Decachlorobiphenyl	127		65-174

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-118.D
Lims ID: LCS 480-570093/2-A
Client ID:
Sample Type: LCS
Inject. Date: 21-Feb-2021 18:08:27 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 22-Feb-2021 11:22:02 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1630

First Level Reviewer: chumongkolratn Date: 22-Feb-2021 11:22:28

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.737	0.736	0.001	4018599	0.5000	0.5000	
2	0.829	0.828	0.001	12007611	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	1.328	1.326	0.002	270902	0.0200	0.0282	
2	1.300	1.298	0.002	848486	0.0200	0.0257	
						RPD = 9.31	
6 PCB-1016							
1	1.927	1.924	0.003	134196	0.5000	0.5598	
1	2.104	2.103	0.002	396099	0.5000	0.5365	
1	2.177	2.174	0.003	139390	0.5000	0.5037	
1	2.230	2.228	0.002	103273	0.5000	0.5341	
1	2.586	2.583	0.003	88147	0.5000	0.4278	
		Average of Peak Amounts =				0.5124	
2	2.233	2.231	0.001	1474375	0.5000	0.5904	
2	2.338	2.335	0.003	613084	0.5000	0.6281	
2	2.425	2.423	0.003	419087	0.5000	0.6323	
2	2.690	2.689	0.001	663004	0.5000	0.5924	
2	2.786	2.784	0.002	486303	0.5000	0.6179	
		Average of Peak Amounts =				0.6122	
						RPD = 17.75	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							
1	3.438	3.438	0.000	201318	0.5000	0.8578	
1	3.618	3.618	0.000	330529	0.5000	0.7563	
1	3.828	3.828	0.000	327588	0.5000	0.6451	
1	4.132	4.132	0.000	161121	0.5000	0.5114	
1	4.338	4.337	0.001	482340	0.5000	0.6566	
		Average of Peak Amounts =				0.6854	
2	3.600	3.598	0.002	816044	0.5000	0.6179	
2	3.707	3.705	0.002	836163	0.5000	0.5877	
2	4.007	4.004	0.003	815259	0.5000	0.6210	
2	4.447	4.445	0.002	1641274	0.5000	0.6166	
2	4.765	4.763	0.002	1077716	0.5000	0.5827	
		Average of Peak Amounts =				0.6052	
						RPD = 12.44	
$ 15 DCB Decachlorobiphenyl							
1	5.522	5.521	0.001	167994	0.0200	0.0433	
2	5.638	5.635	0.003	519186	0.0200	0.0254	
						RPD = 52.13	

QC Flag Legend

Processing Flags

Reagents:

PCB IS 1B2NB_00073 Amount Added: 10.00 Units: uL Run Reagent

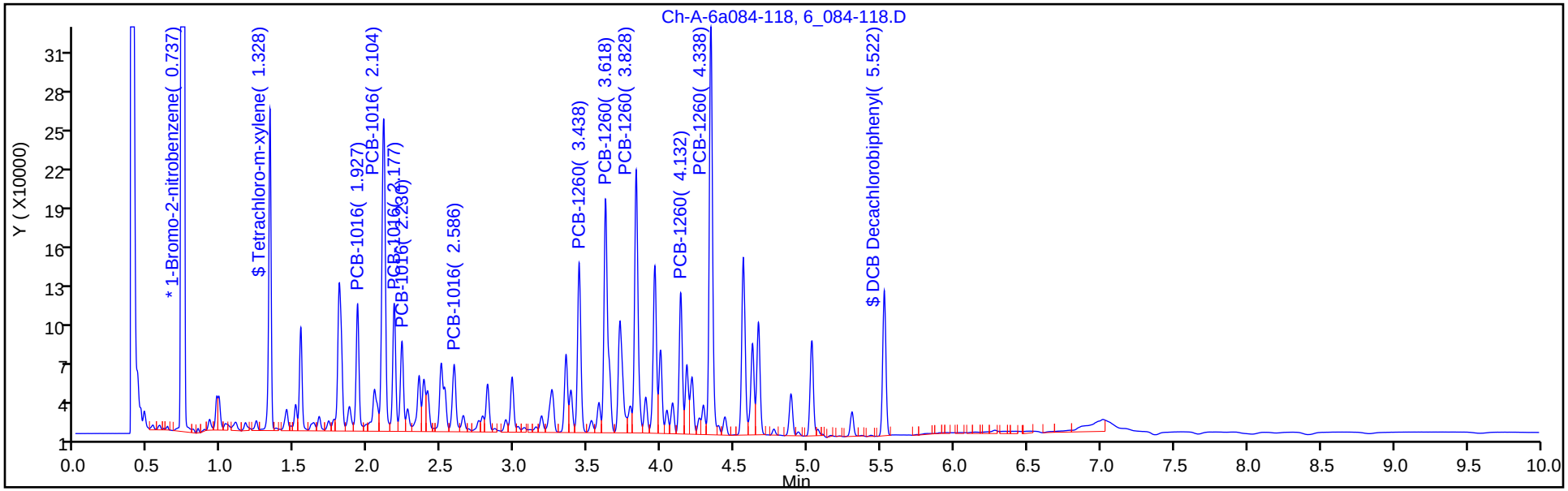
Report Date: 22-Feb-2021 11:22:28 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

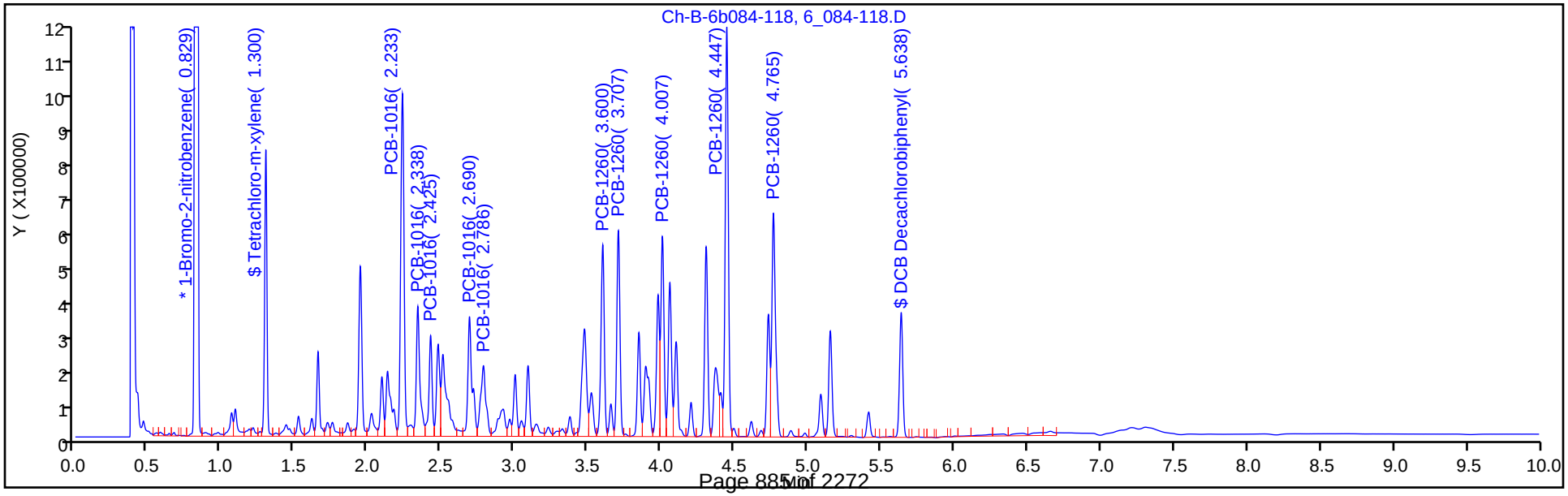
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-118.D

Injection Date:	21-Feb-2021 18:08:27	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	LCS 480-570093/2-A			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12A (4-6) MS Lab Sample ID: 480-181249-3 MS

Matrix: Solid Lab File ID: 6_084-119.D

Analysis Method: 8082A Date Collected: 02/12/2021 13:45

Extraction Method: 3550C Date Extracted: 02/19/2021 08:56

Sample wt/vol: 2.46(g) Date Analyzed: 02/21/2021 18:20

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 20.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 570176 Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	128		60-154
2051-24-3	DCB Decachlorobiphenyl	199	*	65-174

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-119.D
Lims ID: 480-181249-D-3-A MS
Client ID: SB-12A (4-6)
Sample Type: MS
Inject. Date: 21-Feb-2021 18:20:46 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 22-Feb-2021 11:25:59 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1630

First Level Reviewer: chumongkolratn Date: 22-Feb-2021 11:25:59

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.738	0.736	0.002	4064807	0.5000	0.5000	
2	0.830	0.828	0.002	12778559	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	1.329	1.326	0.003	248723	0.0200	0.0256	
2	1.301	1.298	0.003	822228	0.0200	0.0234	
						RPD = 9.01	
6 PCB-1016							
1	1.927	1.924	0.003	130812	0.5000	0.5395	
1	2.105	2.103	0.003	419856	0.5000	0.5626	
1	2.177	2.174	0.003	137416	0.5000	0.4907	
1	2.229	2.228	0.001	104026	0.5000	0.5318	
1	2.587	2.583	0.004	92251	0.5000	0.4430	
		Average of Peak Amounts =				0.5135	
2	2.233	2.231	0.002	1604640	0.5000	0.6039	
2	2.338	2.335	0.003	666275	0.5000	0.6416	
2	2.426	2.423	0.004	461566	0.5000	0.6546	
2	2.691	2.689	0.002	727789	0.5000	0.6110	
2	2.787	2.784	0.003	519991	0.5000	0.6209	
		Average of Peak Amounts =				0.6264	
						RPD = 19.81	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							
1	3.440	3.438	0.002	224827	0.5000	0.9476	
1	3.620	3.618	0.002	366235	0.5000	0.8290	
1	3.829	3.828	0.001	359098	0.5000	0.6997	
1	4.133	4.132	0.000	173777	0.5000	0.5463	
1	4.338	4.337	0.001	536356	0.5000	0.7225	
		Average of Peak Amounts =				0.7490	
2	3.599	3.598	0.001	899380	0.5000	0.6403	
2	3.707	3.705	0.002	904678	0.5000	0.5976	
2	4.008	4.004	0.004	902413	0.5000	0.6463	
2	4.448	4.445	0.003	1783460	0.5000	0.6298	
2	4.765	4.763	0.002	1182999	0.5000	0.6012	
		Average of Peak Amounts =				0.6231	
						RPD = 18.36	
$ 15 DCB Decachlorobiphenyl							
1	5.523	5.521	0.001	156327	0.0200	0.0399	
2	5.637	5.635	0.002	479999	0.0200	0.0221	
						RPD = 57.55	

QC Flag Legend

Processing Flags

Reagents:

PCB IS 1B2NB_00073 Amount Added: 10.00 Units: uL Run Reagent

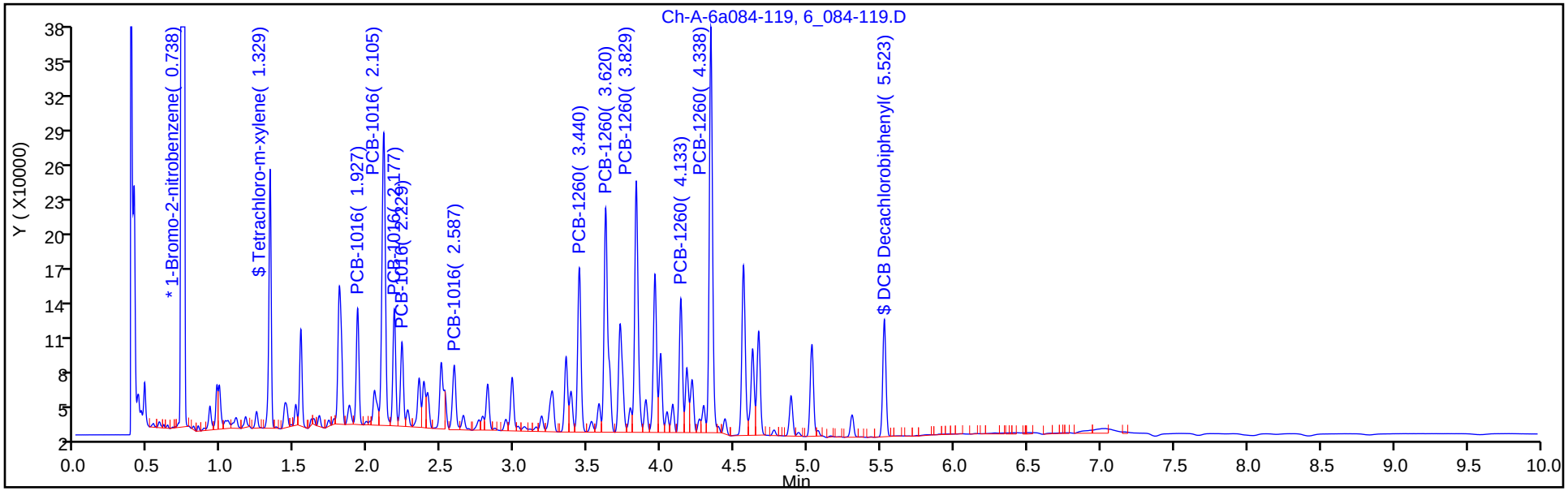
Report Date: 22-Feb-2021 11:25:59 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

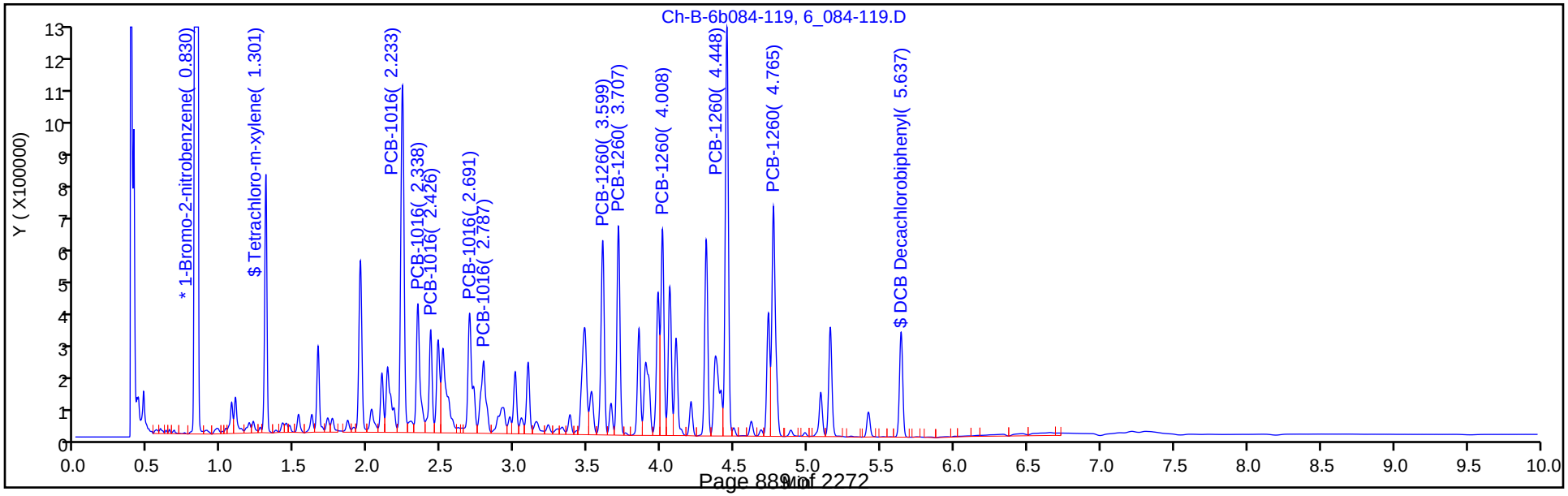
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-119.D

Injection Date:	21-Feb-2021 18:20:46	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-181249-D-3-A MS			Worklist Smp#:	22
Client ID:	SB-12A (4-6)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12A (4-6) MS Lab Sample ID: 480-181249-3 MS

Matrix: Solid Lab File ID: 6_084-119.D

Analysis Method: 8082A Date Collected: 02/12/2021 13:45

Extraction Method: 3550C Date Extracted: 02/19/2021 08:56

Sample wt/vol: 2.46(g) Date Analyzed: 02/21/2021 18:20

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 20.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 570176 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	3.20		0.26	0.050
11104-28-2	PCB-1221	0.26	U	0.26	0.050
11141-16-5	PCB-1232	0.26	U	0.26	0.050
53469-21-9	PCB-1242	0.26	U	0.26	0.050
12672-29-6	PCB-1248	0.26	U	0.26	0.050
11097-69-1	PCB-1254	0.26	U	0.26	0.12
11096-82-5	PCB-1260	3.18		0.26	0.12
37324-23-5	PCB-1262	0.26	U	0.26	0.12
11100-14-4	PCB-1268	0.26	U	0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	117		60-154
2051-24-3	DCB Decachlorobiphenyl	110		65-174

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-119.D
Lims ID: 480-181249-D-3-A MS
Client ID: SB-12A (4-6)
Sample Type: MS
Inject. Date: 21-Feb-2021 18:20:46 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 22-Feb-2021 11:25:59 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1630

First Level Reviewer: chumongkolratn Date: 22-Feb-2021 11:25:59

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.738	0.736	0.002	4064807	0.5000	0.5000	
2	0.830	0.828	0.002	12778559	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	1.329	1.326	0.003	248723	0.0200	0.0256	
2	1.301	1.298	0.003	822228	0.0200	0.0234	
						RPD = 9.01	
6 PCB-1016							
1	1.927	1.924	0.003	130812	0.5000	0.5395	
1	2.105	2.103	0.003	419856	0.5000	0.5626	
1	2.177	2.174	0.003	137416	0.5000	0.4907	
1	2.229	2.228	0.001	104026	0.5000	0.5318	
1	2.587	2.583	0.004	92251	0.5000	0.4430	
		Average of Peak Amounts =				0.5135	
2	2.233	2.231	0.002	1604640	0.5000	0.6039	
2	2.338	2.335	0.003	666275	0.5000	0.6416	
2	2.426	2.423	0.004	461566	0.5000	0.6546	
2	2.691	2.689	0.002	727789	0.5000	0.6110	
2	2.787	2.784	0.003	519991	0.5000	0.6209	
		Average of Peak Amounts =				0.6264	
						RPD = 19.81	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							
1	3.440	3.438	0.002	224827	0.5000	0.9476	
1	3.620	3.618	0.002	366235	0.5000	0.8290	
1	3.829	3.828	0.001	359098	0.5000	0.6997	
1	4.133	4.132	0.000	173777	0.5000	0.5463	
1	4.338	4.337	0.001	536356	0.5000	0.7225	
		Average of Peak Amounts =				0.7490	
2	3.599	3.598	0.001	899380	0.5000	0.6403	
2	3.707	3.705	0.002	904678	0.5000	0.5976	
2	4.008	4.004	0.004	902413	0.5000	0.6463	
2	4.448	4.445	0.003	1783460	0.5000	0.6298	
2	4.765	4.763	0.002	1182999	0.5000	0.6012	
		Average of Peak Amounts =				0.6231	
						RPD = 18.36	
$ 15 DCB Decachlorobiphenyl							
1	5.523	5.521	0.001	156327	0.0200	0.0399	
2	5.637	5.635	0.002	479999	0.0200	0.0221	
						RPD = 57.55	

QC Flag Legend

Processing Flags

Reagents:

PCB IS 1B2NB_00073 Amount Added: 10.00 Units: uL Run Reagent

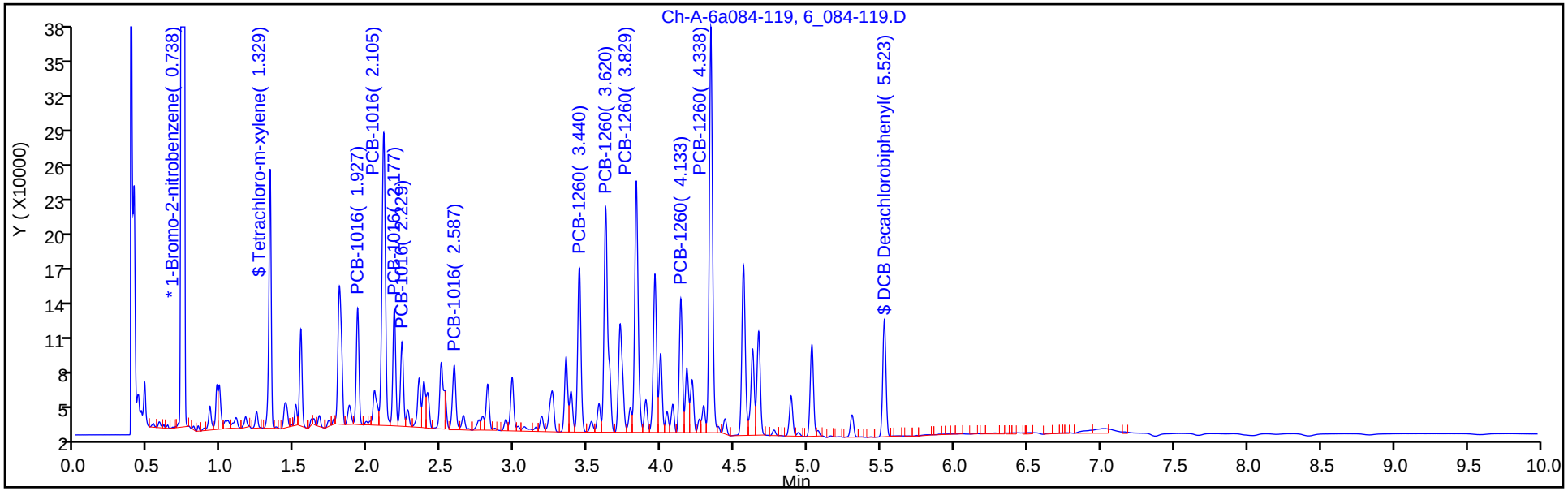
Report Date: 22-Feb-2021 11:26:00 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

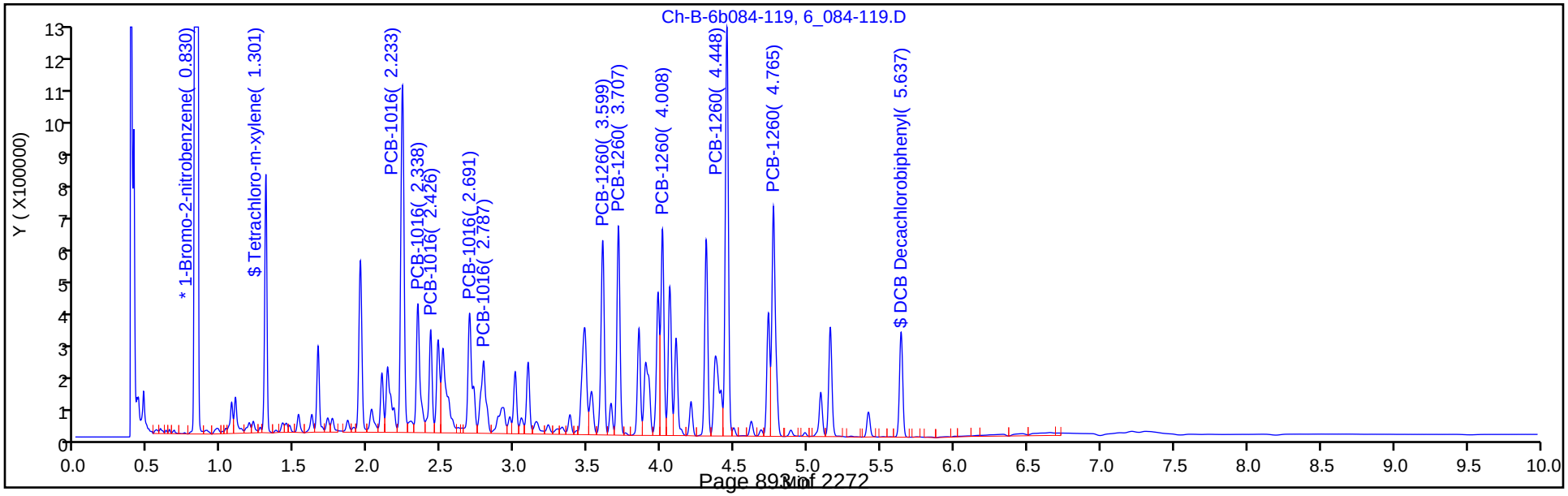
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-119.D

Injection Date:	21-Feb-2021 18:20:46	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-181249-D-3-A MS			Worklist Smp#:	22
Client ID:	SB-12A (4-6)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

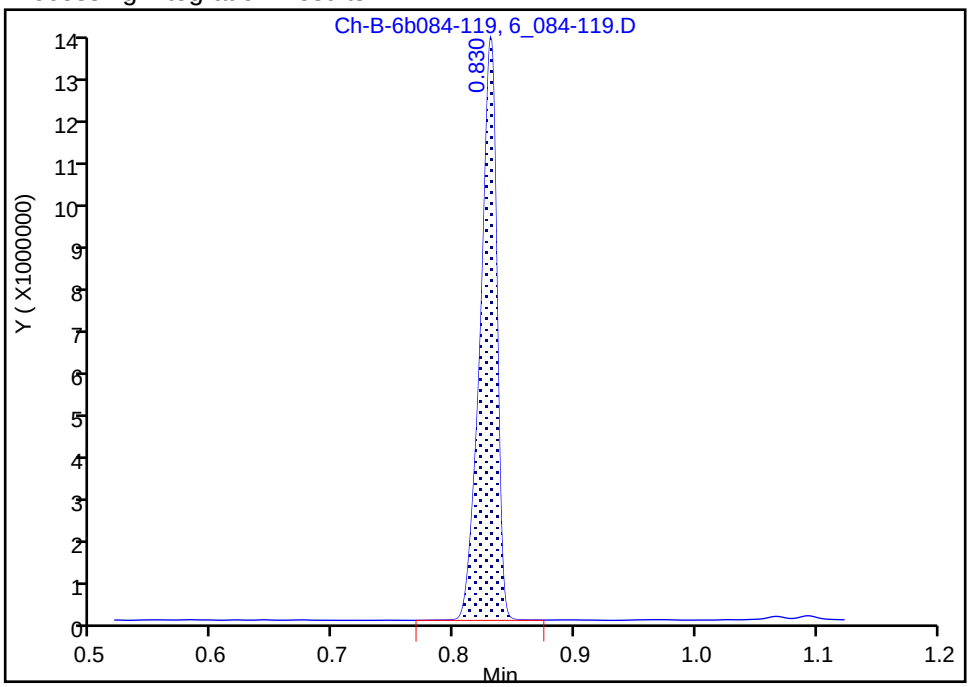
Data File:	\\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-119.D				
Injection Date:	21-Feb-2021 18:20:46	Instrument ID:	HP6890-6		
Lims ID:	480-181249-D-3-A MS				
Client ID:	SB-12A (4-6)				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:	ZB-35 (0.53 mm)	Detector	Ch-B-7b136		

* 1 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

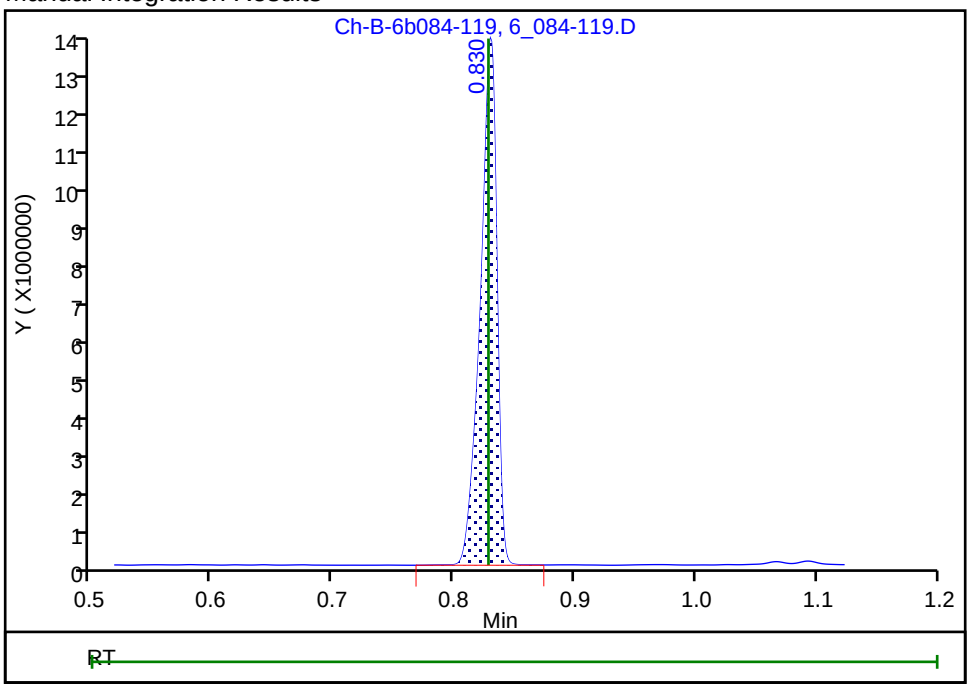
Processing Integration Results

RT: 0.83
Area: 12778559
Amount: 0.500000
Amount Units: ng/uL



Manual Integration Results

RT: 0.83
Area: 12778559
Amount: 0.500000
Amount Units: ng/uL



Reviewer: chumongkolratn, 22-Feb-2021 11:25:39

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12A (4-6) MSD Lab Sample ID: 480-181249-3 MSD

Matrix: Solid Lab File ID: 6_084-120.D

Analysis Method: 8082A Date Collected: 02/12/2021 13:45

Extraction Method: 3550C Date Extracted: 02/19/2021 08:56

Sample wt/vol: 2.44(g) Date Analyzed: 02/21/2021 18:33

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 20.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 570176 Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	185	*	60-154
2051-24-3	DCB Decachlorobiphenyl	283	*	65-174

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-120.D
Lims ID: 480-181249-D-3-B MSD
Client ID: SB-12A (4-6)
Sample Type: MSD
Inject. Date: 21-Feb-2021 18:33:03 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 22-Feb-2021 11:27:40 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1630

First Level Reviewer: chumongkolratn Date: 22-Feb-2021 11:27:40

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.737	0.736	0.001	3862557	0.5000	0.5000	
2	0.829	0.828	0.001	12081346	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	1.329	1.326	0.003	340709	0.0200	0.0370	
2	1.300	1.298	0.002	1060832	0.0200	0.0320	
						RPD = 14.43	
6 PCB-1016							
1	1.927	1.924	0.003	184080	0.5000	0.7990	
1	2.105	2.103	0.003	538318	0.5000	0.7612	
1	2.177	2.174	0.003	183603	0.5000	0.6938	
1	2.230	2.228	0.002	132259	0.5000	0.7156	
1	2.587	2.583	0.004	121470	0.5000	0.6174	
		Average of Peak Amounts =				0.7174	
2	2.233	2.231	0.001	2035660	0.5000	0.8121	
2	2.338	2.335	0.003	817406	0.5000	0.8346	
2	2.426	2.423	0.004	569189	0.5000	0.8557	
2	2.692	2.689	0.003	890830	0.5000	0.7911	
2	2.787	2.784	0.003	622308	0.5000	0.7878	
		Average of Peak Amounts =				0.8163	
						RPD = 12.89	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							
1	3.440	3.438	0.002	278504	0.5000	1.24	
1	3.620	3.618	0.002	450755	0.5000	1.08	
1	3.829	3.828	0.001	449880	0.5000	0.9248	
1	4.133	4.132	0.000	220316	0.5000	0.7340	
1	4.338	4.337	0.001	680489	0.5000	0.9670	
		Average of Peak Amounts =				0.9876	
2	3.601	3.598	0.003	1098554	0.5000	0.8305	
2	3.708	3.705	0.003	1103508	0.5000	0.7731	
2	4.008	4.004	0.004	1088106	0.5000	0.8272	
2	4.448	4.445	0.003	2223497	0.5000	0.8332	
2	4.766	4.763	0.003	1466770	0.5000	0.7902	
		Average of Peak Amounts =				0.8108	
						RPD = 19.66	
$ 15 DCB Decachlorobiphenyl							
1	5.522	5.521	0.001	210757	0.0200	0.0566	
2	5.636	5.635	0.001	651086	0.0200	0.0317	
						RPD = 56.24	

QC Flag Legend

Processing Flags

Reagents:

PCB IS 1B2NB_00073 Amount Added: 10.00 Units: uL Run Reagent

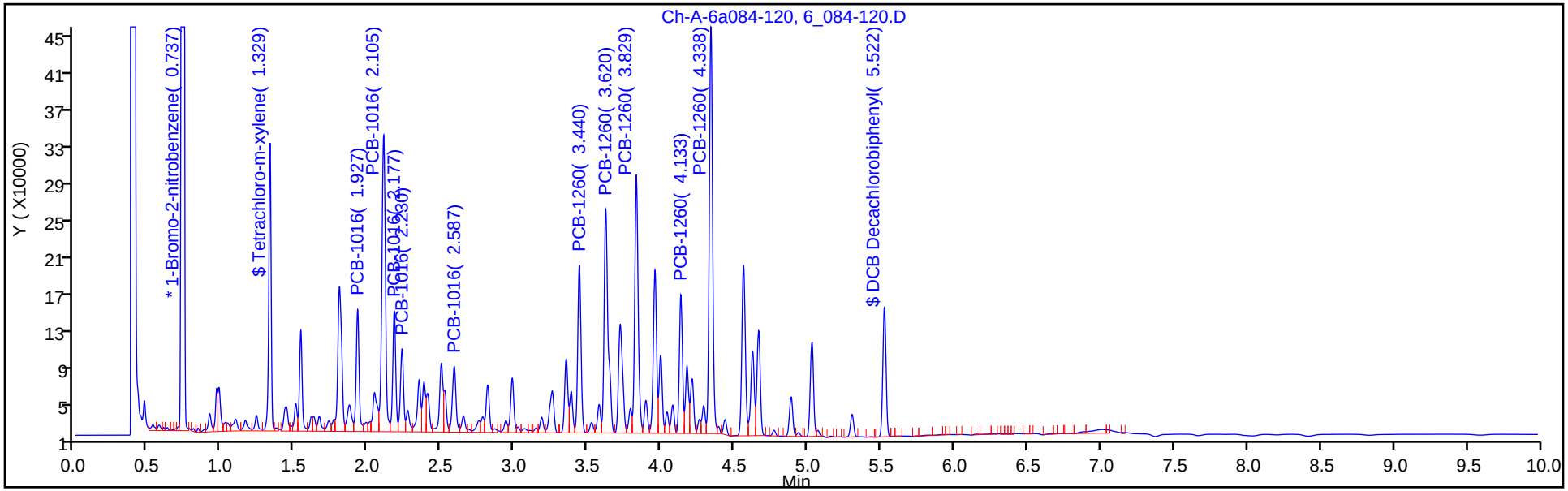
Report Date: 22-Feb-2021 11:27:41 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

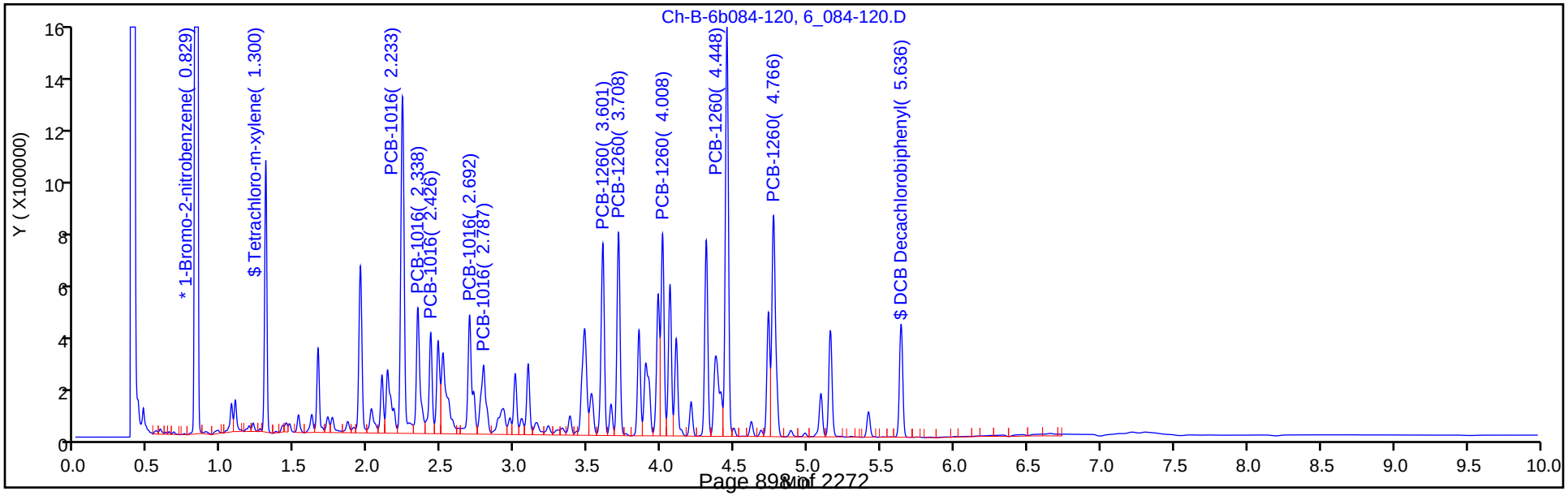
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-120.D

Injection Date:	21-Feb-2021 18:33:03	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-181249-D-3-B MSD			Worklist Smp#:	23
Client ID:	SB-12A (4-6)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



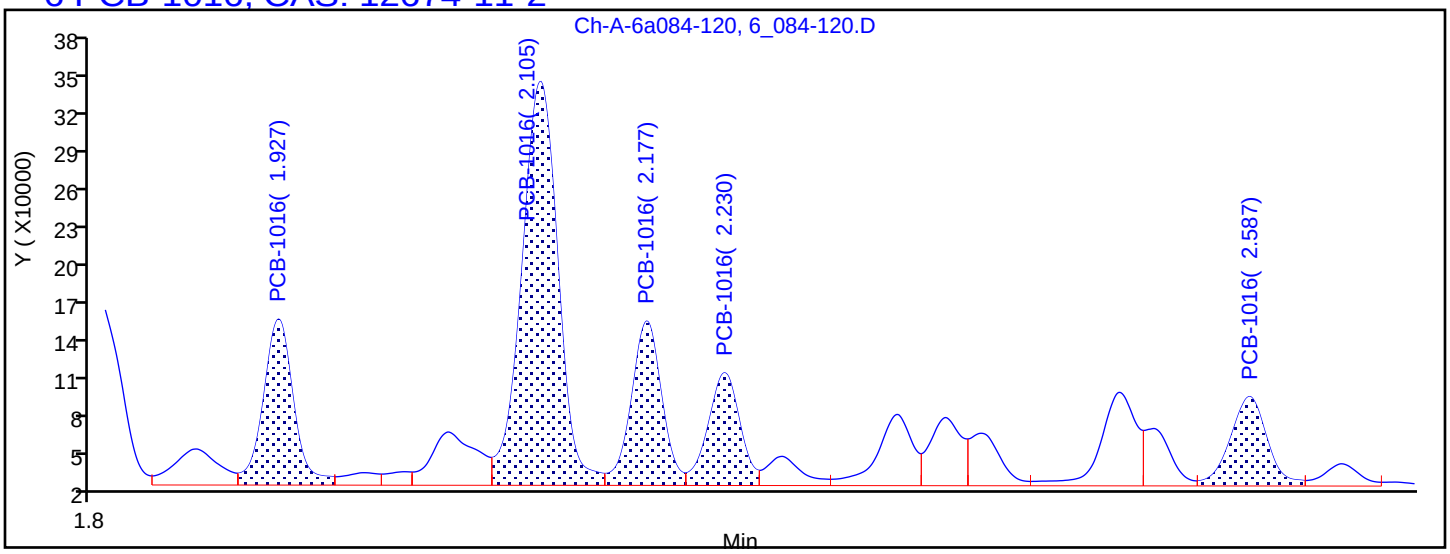
Report Date: 22-Feb-2021 11:27:41 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-120.D

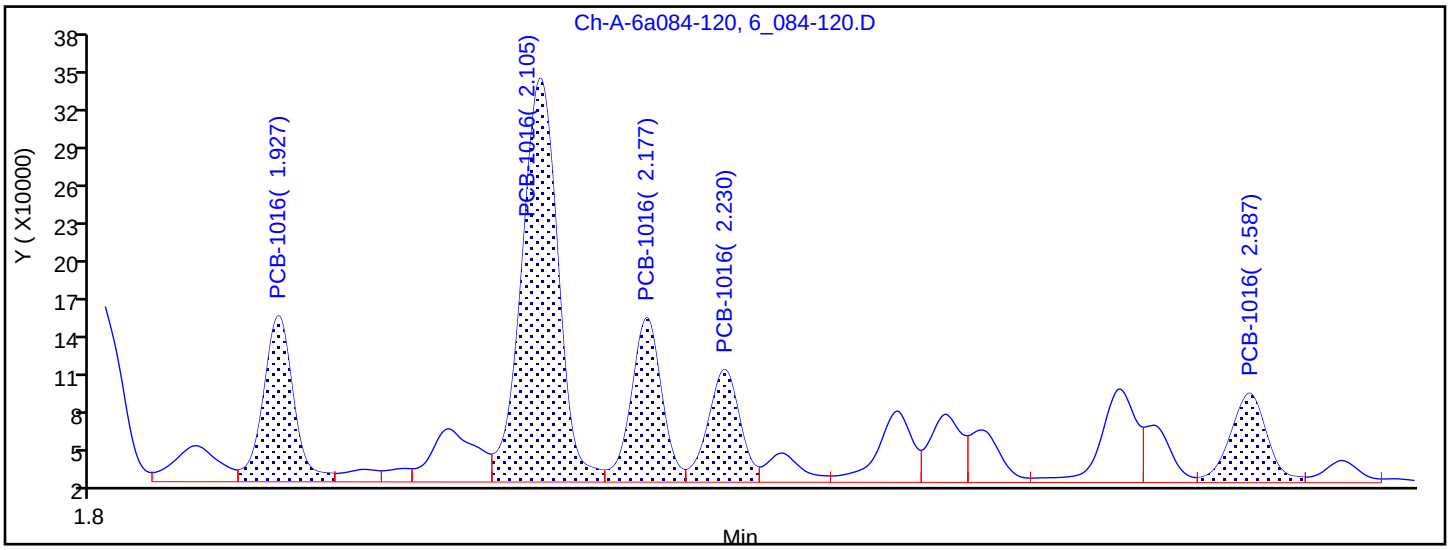
Injection Date:	21-Feb-2021 18:33:03	Instrument ID:	HP6890-6		
Lims ID:	480-181249-D-3-B MSD				
Client ID:	SB-12A (4-6)				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:	ZB-5 (0.53 mm)	Detector	Ch-A-7A136		

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

1.927	Response = 184080
2.105	Response = 538318
2.177	Response = 183603
2.230	Response = 132259
2.587	Response = 121470



Manual Integration Results

1.927	Response = 184080	
2.105	Response = 538318	M
2.177	Response = 183603	M
2.230	Response = 132259	M
2.587	Response = 121470	M

Reviewer: chumongkolratn, 22-Feb-2021 11:26:37

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Report Date: 22-Feb-2021 11:27:41 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-120.D

Injection Date: 21-Feb-2021 18:33:03 Instrument ID: HP6890-6

Lims ID: 480-181249-D-3-B MSD

Client ID: SB-12A (4-6)

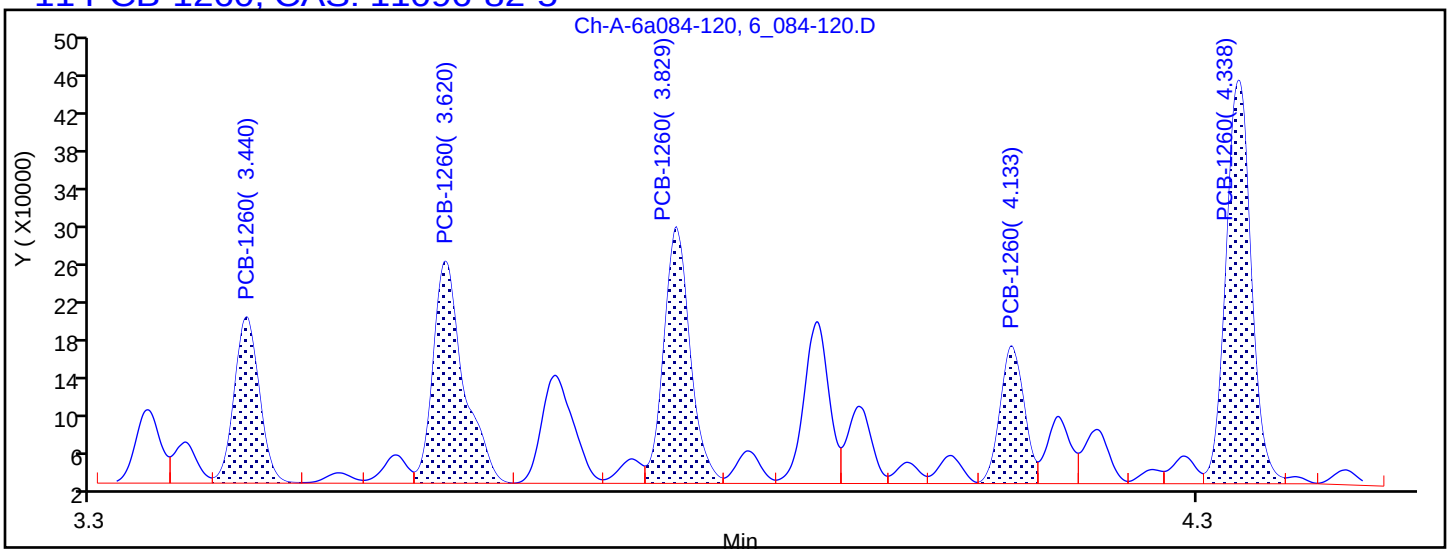
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 23

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

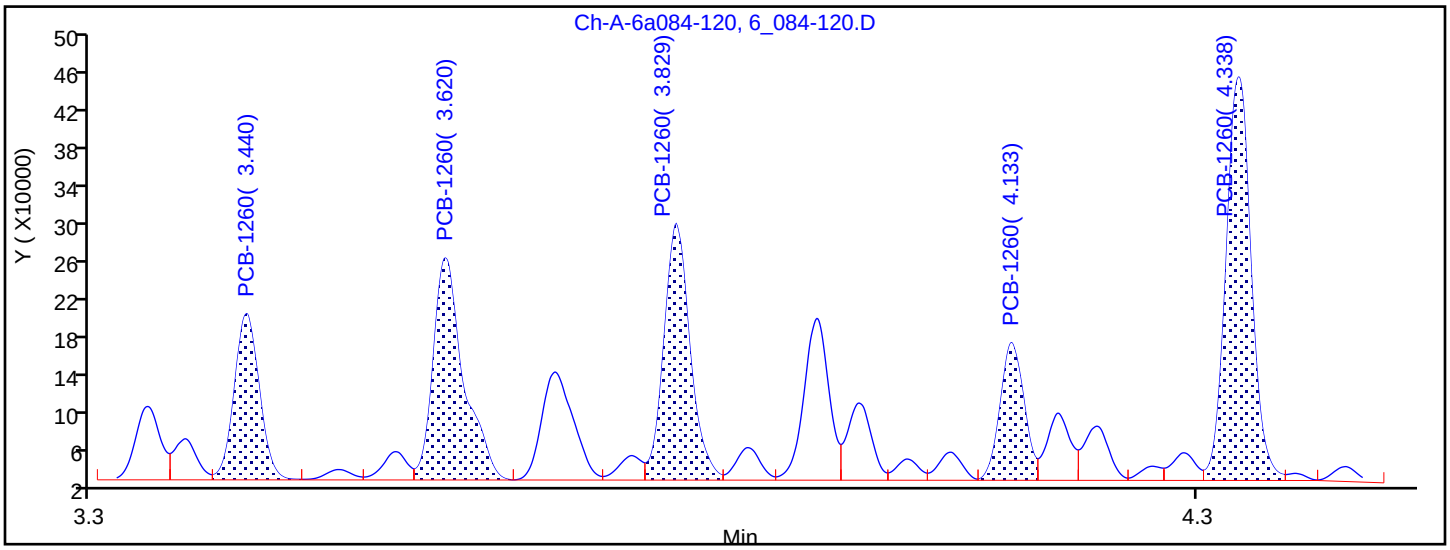
Column: ZB-5 (0.53 mm) Detector Ch-A-7A136

11 PCB-1260, CAS: 11096-82-5



Processing Integration Results

3.440	Response = 278504
3.620	Response = 450755
3.829	Response = 449880
4.133	Response = 220316
4.338	Response = 680489



Manual Integration Results

3.440	Response = 278504	
3.620	Response = 450755	M
3.829	Response = 449880	M
4.133	Response = 220316	M
4.338	Response = 680489	M

Reviewer: chumongkolratn, 22-Feb-2021 11:26:45

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12A (4-6) MSD Lab Sample ID: 480-181249-3 MSD

Matrix: Solid Lab File ID: 6_084-120.D

Analysis Method: 8082A Date Collected: 02/12/2021 13:45

Extraction Method: 3550C Date Extracted: 02/19/2021 08:56

Sample wt/vol: 2.44(g) Date Analyzed: 02/21/2021 18:33

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 20.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 570176 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	4.20		0.26	0.050
11104-28-2	PCB-1221	0.26	U	0.26	0.050
11141-16-5	PCB-1232	0.26	U	0.26	0.050
53469-21-9	PCB-1242	0.26	U	0.26	0.050
12672-29-6	PCB-1248	0.26	U	0.26	0.050
11097-69-1	PCB-1254	0.26	U	0.26	0.12
11096-82-5	PCB-1260	4.18		0.26	0.12
37324-23-5	PCB-1262	0.26	U	0.26	0.12
11100-14-4	PCB-1268	0.26	U	0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	160	*	60-154
2051-24-3	DCB Decachlorobiphenyl	159		65-174

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-120.D
Lims ID: 480-181249-D-3-B MSD
Client ID: SB-12A (4-6)
Sample Type: MSD
Inject. Date: 21-Feb-2021 18:33:03 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 22-Feb-2021 11:27:40 Calib Date: 16-Dec-2020 20:54:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP6890-06\20201216-95684.b\6_078-321.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: CTX1630

First Level Reviewer: chumongkolratn Date: 22-Feb-2021 11:27:40

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.737	0.736	0.001	3862557	0.5000	0.5000	
2	0.829	0.828	0.001	12081346	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							
1	1.329	1.326	0.003	340709	0.0200	0.0370	
2	1.300	1.298	0.002	1060832	0.0200	0.0320	
						RPD = 14.43	
6 PCB-1016							
1	1.927	1.924	0.003	184080	0.5000	0.7990	
1	2.105	2.103	0.003	538318	0.5000	0.7612	
1	2.177	2.174	0.003	183603	0.5000	0.6938	
1	2.230	2.228	0.002	132259	0.5000	0.7156	
1	2.587	2.583	0.004	121470	0.5000	0.6174	
		Average of Peak Amounts =				0.7174	
2	2.233	2.231	0.001	2035660	0.5000	0.8121	
2	2.338	2.335	0.003	817406	0.5000	0.8346	
2	2.426	2.423	0.004	569189	0.5000	0.8557	
2	2.692	2.689	0.003	890830	0.5000	0.7911	
2	2.787	2.784	0.003	622308	0.5000	0.7878	
		Average of Peak Amounts =				0.8163	
						RPD = 12.89	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							
1	3.440	3.438	0.002	278504	0.5000	1.24	
1	3.620	3.618	0.002	450755	0.5000	1.08	
1	3.829	3.828	0.001	449880	0.5000	0.9248	
1	4.133	4.132	0.000	220316	0.5000	0.7340	
1	4.338	4.337	0.001	680489	0.5000	0.9670	
		Average of Peak Amounts =				0.9876	
2	3.601	3.598	0.003	1098554	0.5000	0.8305	
2	3.708	3.705	0.003	1103508	0.5000	0.7731	
2	4.008	4.004	0.004	1088106	0.5000	0.8272	
2	4.448	4.445	0.003	2223497	0.5000	0.8332	
2	4.766	4.763	0.003	1466770	0.5000	0.7902	
		Average of Peak Amounts =				0.8108	
						RPD = 19.66	
$ 15 DCB Decachlorobiphenyl							
1	5.522	5.521	0.001	210757	0.0200	0.0566	
2	5.636	5.635	0.001	651086	0.0200	0.0317	
						RPD = 56.24	

QC Flag Legend

Processing Flags

Reagents:

PCB IS 1B2NB_00073 Amount Added: 10.00 Units: uL Run Reagent

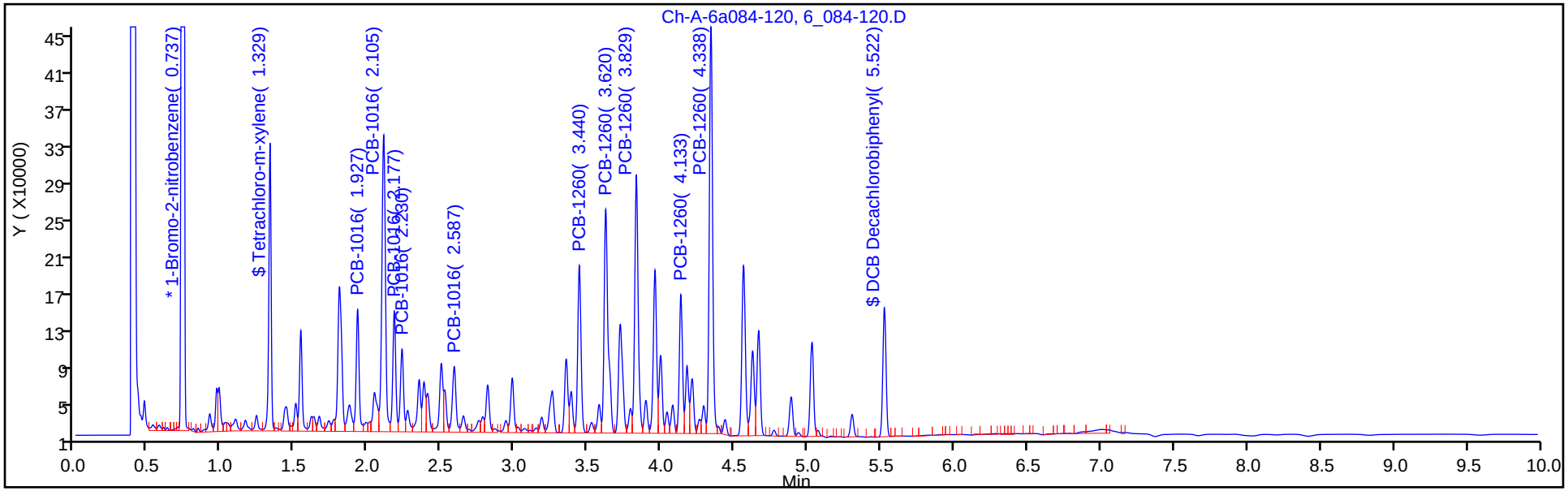
Report Date: 22-Feb-2021 11:27:41 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

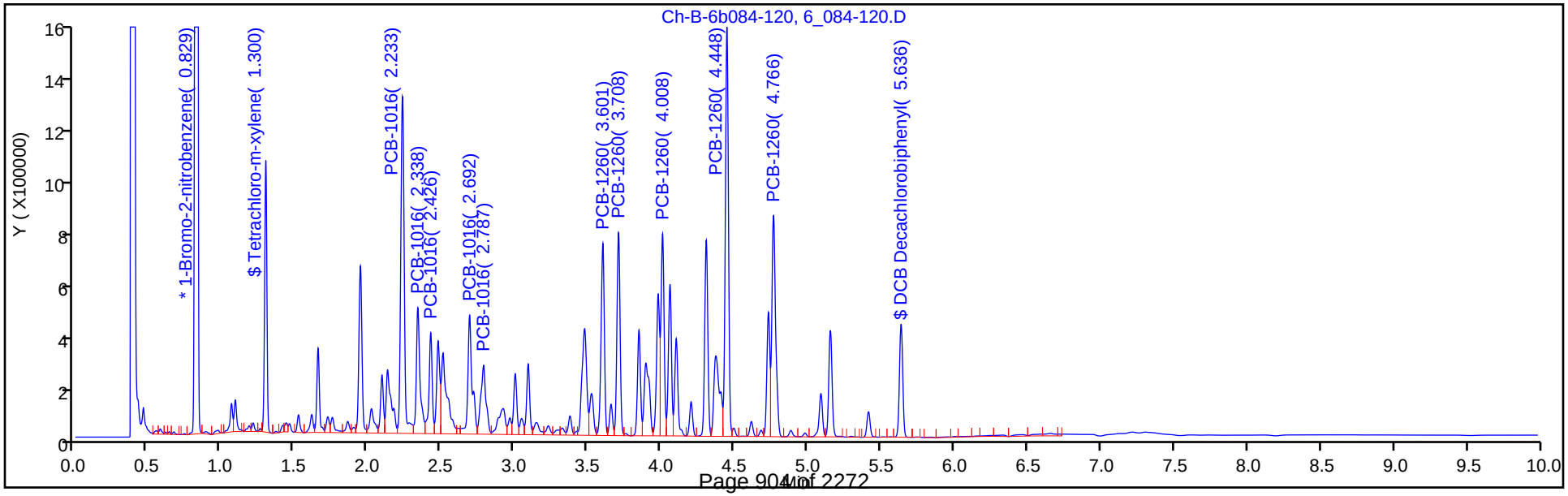
Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-120.D

Injection Date:	21-Feb-2021 18:33:03	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-181249-D-3-B MSD			Worklist Smp#:	23
Client ID:	SB-12A (4-6)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Column: ZB-5 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Column: ZB-35 (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



Report Date: 22-Feb-2021 11:27:42 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-120.D

Injection Date: 21-Feb-2021 18:33:03 Instrument ID: HP6890-6

Lims ID: 480-181249-D-3-B MSD

Client ID: SB-12A (4-6)

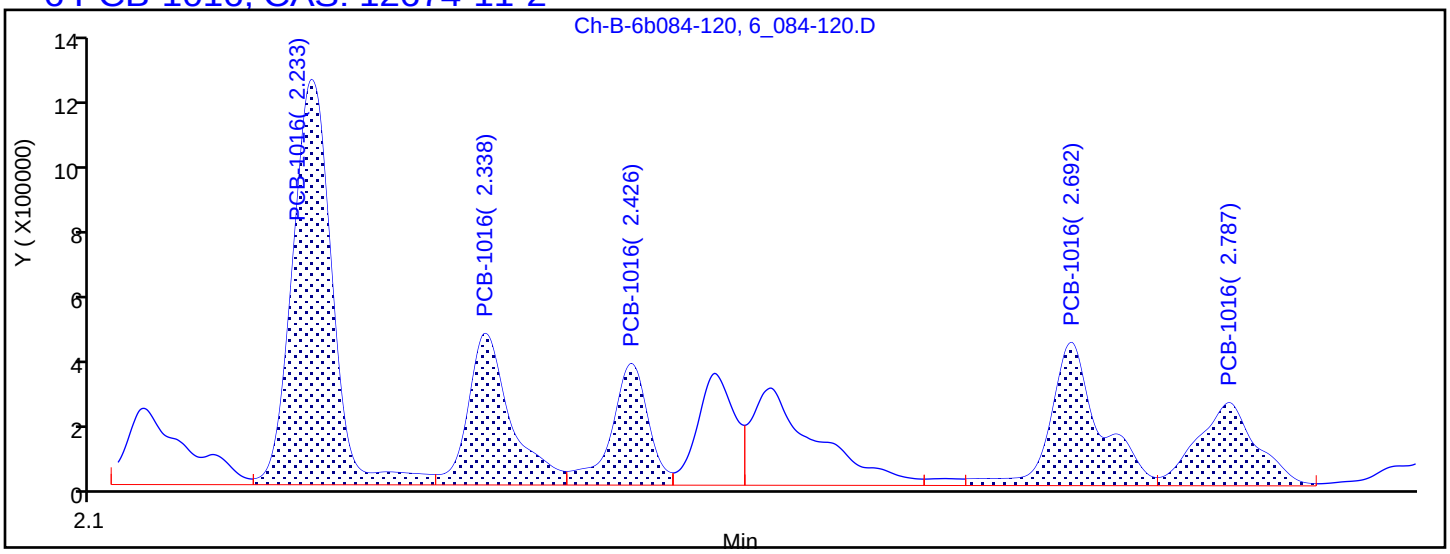
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 23

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

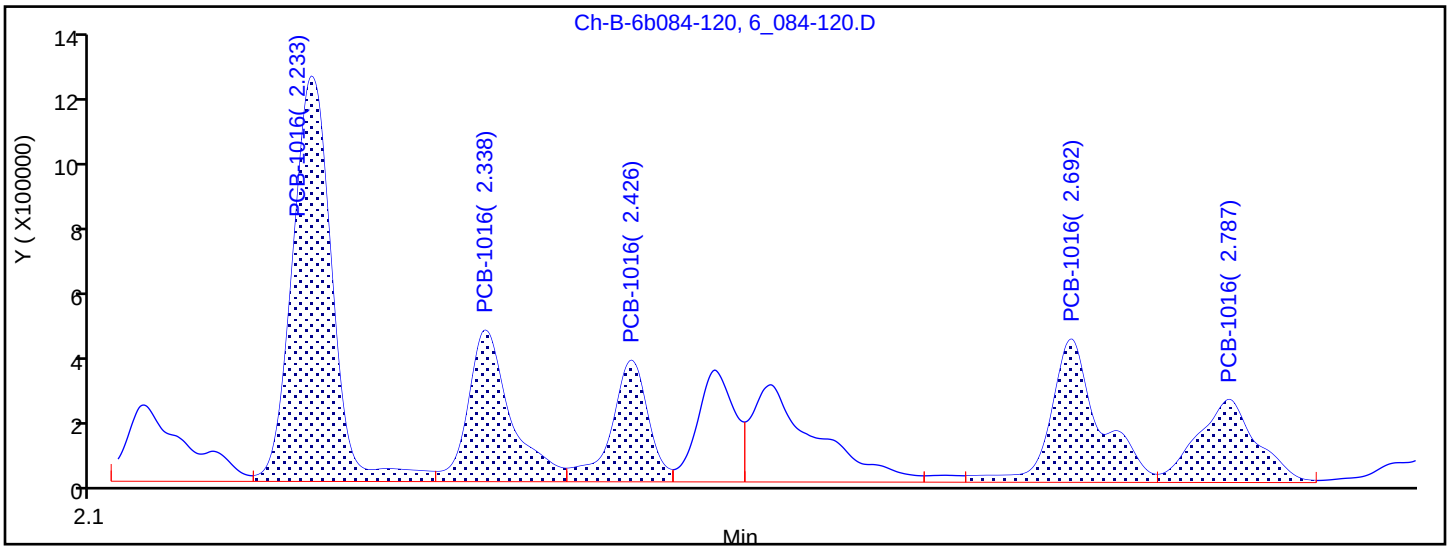
Column: ZB-35 (0.53 mm) Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.233	Response = 2035660
2.338	Response = 817406
2.426	Response = 569189
2.692	Response = 890830
2.787	Response = 622308



Manual Integration Results

2.233	Response = 2035660	M
2.338	Response = 817406	M
2.426	Response = 569189	M
2.692	Response = 890830	M
2.787	Response = 622308	M

Reviewer: chumongkolratn, 22-Feb-2021 11:26:37

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Report Date: 22-Feb-2021 11:27:42 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-120.D

Injection Date: 21-Feb-2021 18:33:03 Instrument ID: HP6890-6

Lims ID: 480-181249-D-3-B MSD

Client ID: SB-12A (4-6)

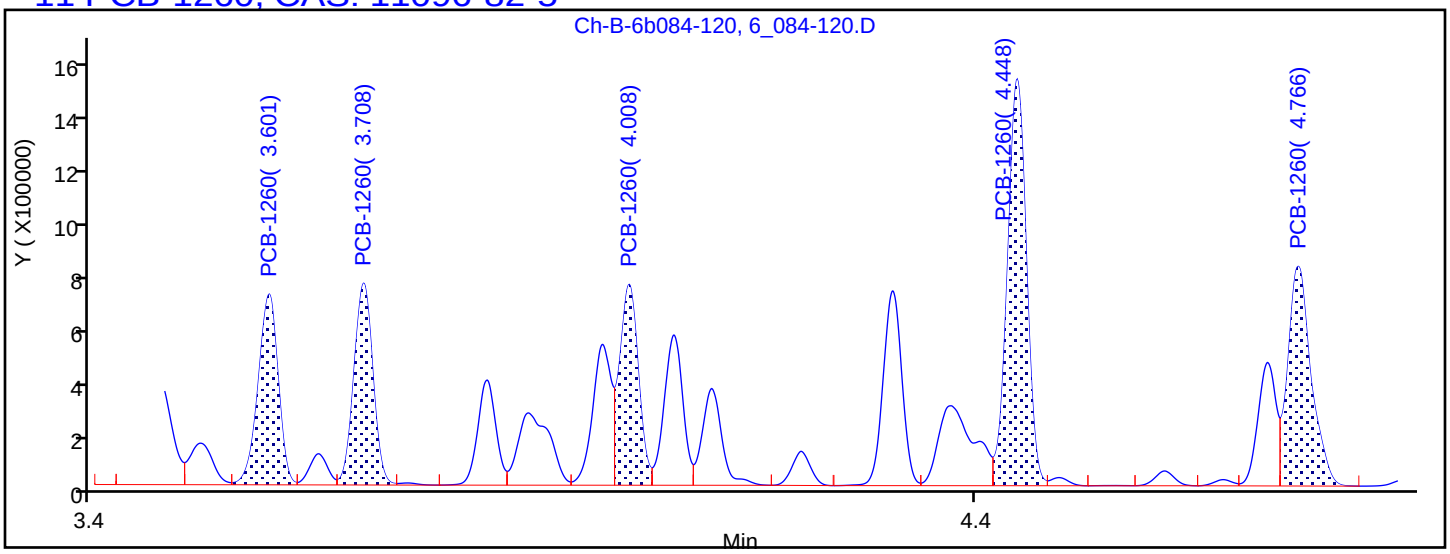
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 23

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

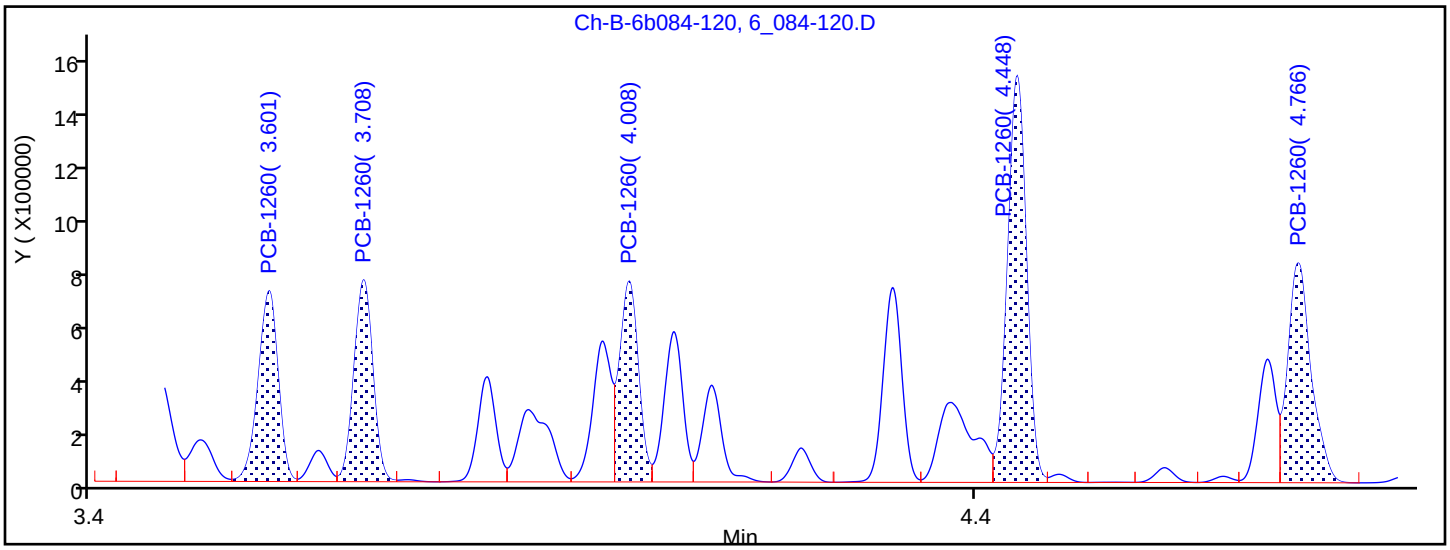
Column: ZB-35 (0.53 mm) Detector Ch-B-7b136

11 PCB-1260, CAS: 11096-82-5



Processing Integration Results

3.601	Response = 1098554
3.708	Response = 1103508
4.008	Response = 1088106
4.448	Response = 2223497
4.766	Response = 1466770



Manual Integration Results

3.601	Response = 1098554	M
3.708	Response = 1103508	M
4.008	Response = 1088106	M
4.448	Response = 2223497	M
4.766	Response = 1466770	M

Reviewer: chumongkolratn, 22-Feb-2021 11:26:45

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

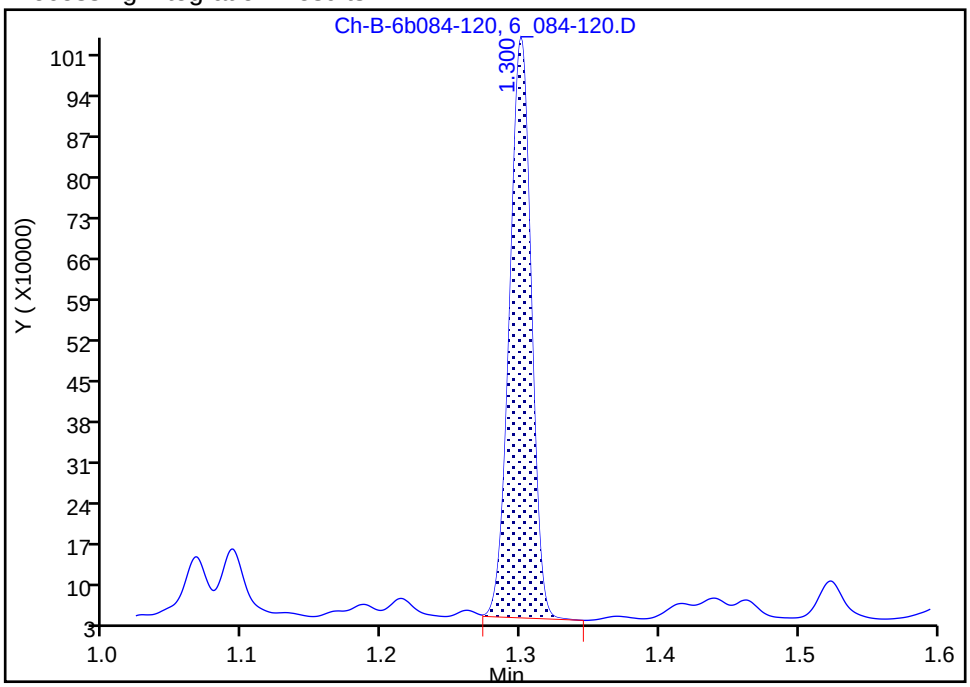
Data File:	\\chromfs\Buffalo\ChromData\HP6890-06\20210221-96773.b\6_084-120.D				
Injection Date:	21-Feb-2021 18:33:03	Instrument ID:	HP6890-6		
Lims ID:	480-181249-D-3-B MSD				
Client ID:	SB-12A (4-6)				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:	ZB-35 (0.53 mm)	Detector	Ch-B-7b136		

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

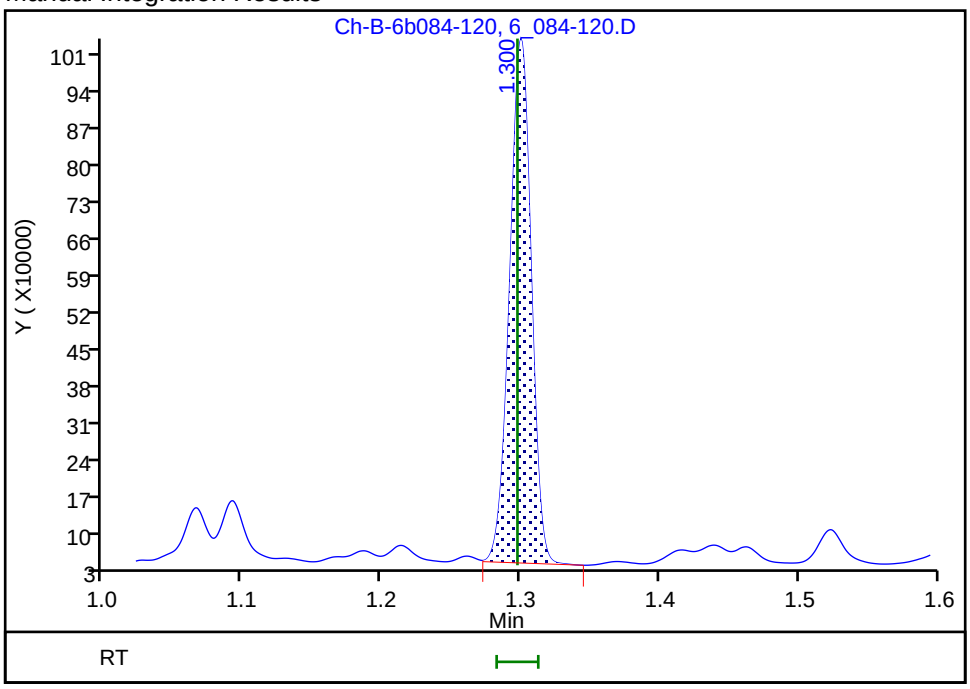
Processing Integration Results

RT: 1.30
Area: 1060832
Amount: 0.031999
Amount Units: ng/uL



Manual Integration Results

RT: 1.30
Area: 1060832
Amount: 0.031999
Amount Units: ng/uL



Reviewer: chumongkolratn, 22-Feb-2021 11:26:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

PCBS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Instrument ID: HP6890-6 Start Date: 12/16/2020 15:33

Analysis Batch Number: 563531 End Date: 12/16/2020 21:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 480-563531/3		12/16/2020 15:33	1	6_078-295.D	ZB-5 0.53(mm)
IC 480-563531/3		12/16/2020 15:33	1	6_078-295.D	ZB-35 0.53(mm)
IC 480-563531/4		12/16/2020 15:45	1	6_078-296.D	ZB-5 0.53(mm)
IC 480-563531/4		12/16/2020 15:45	1	6_078-296.D	ZB-35 0.53(mm)
ICIS 480-563531/5		12/16/2020 15:57	1	6_078-297.D	ZB-5 0.53(mm)
ICIS 480-563531/5		12/16/2020 15:57	1	6_078-297.D	ZB-35 0.53(mm)
IC 480-563531/6		12/16/2020 16:10	1	6_078-298.D	ZB-5 0.53(mm)
IC 480-563531/6		12/16/2020 16:10	1	6_078-298.D	ZB-35 0.53(mm)
IC 480-563531/7		12/16/2020 16:22	1	6_078-299.D	ZB-5 0.53(mm)
IC 480-563531/7		12/16/2020 16:22	1	6_078-299.D	ZB-35 0.53(mm)
IC 480-563531/8		12/16/2020 16:34	1	6_078-300.D	ZB-5 0.53(mm)
IC 480-563531/8		12/16/2020 16:34	1	6_078-300.D	ZB-35 0.53(mm)
IC 480-563531/9		12/16/2020 16:47	1	6_078-301.D	ZB-5 0.53(mm)
IC 480-563531/9		12/16/2020 16:47	1	6_078-301.D	ZB-35 0.53(mm)
ICV 480-563531/10		12/16/2020 16:59	1		ZB-5 0.53(mm)
ICV 480-563531/10		12/16/2020 16:59	1		ZB-35 0.53(mm)
CCV 480-563531/11		12/16/2020 17:11	1		ZB-5 0.53(mm)
CCV 480-563531/11		12/16/2020 17:11	1		ZB-35 0.53(mm)
CCVL 480-563531/14		12/16/2020 17:49	1		ZB-5 0.53(mm)
CCVL 480-563531/14		12/16/2020 17:49	1		ZB-35 0.53(mm)
IC 480-563531/15		12/16/2020 18:01	1		ZB-5 0.53(mm)
IC 480-563531/15		12/16/2020 18:01	1		ZB-35 0.53(mm)
IC 480-563531/16		12/16/2020 18:13	1		ZB-5 0.53(mm)
IC 480-563531/16		12/16/2020 18:13	1		ZB-35 0.53(mm)
IC 480-563531/17		12/16/2020 18:26	1		ZB-5 0.53(mm)
IC 480-563531/17		12/16/2020 18:26	1		ZB-35 0.53(mm)
ICV 480-563531/18		12/16/2020 18:38	1		ZB-5 0.53(mm)
ICV 480-563531/18		12/16/2020 18:38	1		ZB-35 0.53(mm)
IC 480-563531/19		12/16/2020 18:50	1		ZB-5 0.53(mm)
IC 480-563531/19		12/16/2020 18:50	1		ZB-35 0.53(mm)
IC 480-563531/20		12/16/2020 19:03	1		ZB-5 0.53(mm)
IC 480-563531/20		12/16/2020 19:03	1		ZB-35 0.53(mm)
IC 480-563531/21		12/16/2020 19:15	1		ZB-5 0.53(mm)
IC 480-563531/21		12/16/2020 19:15	1		ZB-35 0.53(mm)
ICV 480-563531/22		12/16/2020 19:28	1		ZB-5 0.53(mm)
ICV 480-563531/22		12/16/2020 19:28	1		ZB-35 0.53(mm)
IC 480-563531/23		12/16/2020 19:40	1		ZB-5 0.53(mm)
IC 480-563531/23		12/16/2020 19:40	1		ZB-35 0.53(mm)
IC 480-563531/24		12/16/2020 19:52	1		ZB-5 0.53(mm)
IC 480-563531/24		12/16/2020 19:52	1		ZB-35 0.53(mm)
IC 480-563531/25		12/16/2020 20:05	1		ZB-5 0.53(mm)
IC 480-563531/25		12/16/2020 20:05	1		ZB-35 0.53(mm)
ICV 480-563531/26		12/16/2020 20:17	1		ZB-5 0.53(mm)
ICV 480-563531/26		12/16/2020 20:17	1		ZB-35 0.53(mm)
IC 480-563531/27		12/16/2020 20:29	1		ZB-5 0.53(mm)

8082A

PCBS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Instrument ID: HP6890-6 Start Date: 12/16/2020 15:33

Analysis Batch Number: 563531 End Date: 12/16/2020 21:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 480-563531/27		12/16/2020 20:29	1		ZB-35 0.53(mm)
IC 480-563531/28		12/16/2020 20:42	1		ZB-5 0.53(mm)
IC 480-563531/28		12/16/2020 20:42	1		ZB-35 0.53(mm)
IC 480-563531/29		12/16/2020 20:54	1		ZB-5 0.53(mm)
IC 480-563531/29		12/16/2020 20:54	1		ZB-35 0.53(mm)
ICV 480-563531/30		12/16/2020 21:06	1		ZB-5 0.53(mm)
ICV 480-563531/30		12/16/2020 21:06	1		ZB-35 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Instrument ID: HP6890-6 Start Date: 02/21/2021 14:50

Analysis Batch Number: 570176 End Date: 02/21/2021 22:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 480-570176/5		02/21/2021 14:50	1	6_084-102.D	ZB-5 0.53(mm)
CCVIS 480-570176/5		02/21/2021 14:50	1	6_084-102.D	ZB-35 0.53(mm)
CCV 480-570176/6		02/21/2021 15:02	1	6_084-103.D	ZB-5 0.53(mm)
CCV 480-570176/6		02/21/2021 15:02	1	6_084-103.D	ZB-35 0.53(mm)
CCV 480-570176/7		02/21/2021 15:15	1	6_084-104.D	ZB-5 0.53(mm)
CCV 480-570176/7		02/21/2021 15:15	1	6_084-104.D	ZB-35 0.53(mm)
CCV 480-570176/8		02/21/2021 15:27	1	6_084-105.D	ZB-5 0.53(mm)
CCV 480-570176/8		02/21/2021 15:27	1	6_084-105.D	ZB-35 0.53(mm)
CCV 480-570176/9		02/21/2021 15:40	1	6_084-106.D	ZB-5 0.53(mm)
CCV 480-570176/9		02/21/2021 15:40	1	6_084-106.D	ZB-35 0.53(mm)
MB 480-570093/1-A		02/21/2021 17:56	1	6_084-117.D	ZB-5 0.53(mm)
MB 480-570093/1-A		02/21/2021 17:56	1	6_084-117.D	ZB-35 0.53(mm)
LCS 480-570093/2-A		02/21/2021 18:08	1	6_084-118.D	ZB-5 0.53(mm)
LCS 480-570093/2-A		02/21/2021 18:08	1	6_084-118.D	ZB-35 0.53(mm)
480-181249-3 MS	SB-12A (4-6) MS	02/21/2021 18:20	1	6_084-119.D	ZB-5 0.53(mm)
480-181249-3 MS	SB-12A (4-6) MS	02/21/2021 18:20	1	6_084-119.D	ZB-35 0.53(mm)
480-181249-3 MSD	SB-12A (4-6) MSD	02/21/2021 18:33	1	6_084-120.D	ZB-5 0.53(mm)
480-181249-3 MSD	SB-12A (4-6) MSD	02/21/2021 18:33	1	6_084-120.D	ZB-35 0.53(mm)
480-181249-3	SB-12A (4-6)	02/21/2021 18:45	1	6_084-121.D	ZB-5 0.53(mm)
480-181249-3	SB-12A (4-6)	02/21/2021 18:45	1	6_084-121.D	ZB-35 0.53(mm)
480-181249-1	SB-12C (32-33)	02/21/2021 18:57	1	6_084-122.D	ZB-5 0.53(mm)
480-181249-1	SB-12C (32-33)	02/21/2021 18:57	1	6_084-122.D	ZB-35 0.53(mm)
480-181249-2	SB-12C (55-56)	02/21/2021 19:10	1	6_084-123.D	ZB-5 0.53(mm)
480-181249-2	SB-12C (55-56)	02/21/2021 19:10	1	6_084-123.D	ZB-35 0.53(mm)
480-181249-4	SB-12A (13-15)	02/21/2021 19:22	1	6_084-124.D	ZB-5 0.53(mm)
480-181249-4	SB-12A (13-15)	02/21/2021 19:22	1	6_084-124.D	ZB-35 0.53(mm)
480-181249-6	DUP-SB (13-15)	02/21/2021 19:34	1	6_084-125.D	ZB-5 0.53(mm)
480-181249-6	DUP-SB (13-15)	02/21/2021 19:34	1	6_084-125.D	ZB-35 0.53(mm)
ZZZZZ		02/21/2021 19:47	1		ZB-5 0.53(mm)
ZZZZZ		02/21/2021 19:47	1		ZB-35 0.53(mm)
ZZZZZ		02/21/2021 19:59	1		ZB-5 0.53(mm)
ZZZZZ		02/21/2021 19:59	1		ZB-35 0.53(mm)
CCV 480-570176/31		02/21/2021 20:11	1		ZB-5 0.53(mm)
CCV 480-570176/31		02/21/2021 20:11	1		ZB-35 0.53(mm)
ZZZZZ		02/21/2021 20:36	1		ZB-5 0.53(mm)
ZZZZZ		02/21/2021 20:36	1		ZB-35 0.53(mm)
ZZZZZ		02/21/2021 20:48	1		ZB-5 0.53(mm)
ZZZZZ		02/21/2021 20:48	1		ZB-35 0.53(mm)
ZZZZZ		02/21/2021 21:01	1		ZB-5 0.53(mm)
ZZZZZ		02/21/2021 21:01	1		ZB-35 0.53(mm)
ZZZZZ		02/21/2021 21:13	5		ZB-5 0.53(mm)
ZZZZZ		02/21/2021 21:13	5		ZB-35 0.53(mm)
ZZZZZ		02/21/2021 21:25	1		ZB-5 0.53(mm)
ZZZZZ		02/21/2021 21:25	1		ZB-35 0.53(mm)
ZZZZZ		02/21/2021 21:38	1		ZB-5 0.53(mm)

8082A

PCBS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Instrument ID: HP6890-6 Start Date: 02/21/2021 14:50

Analysis Batch Number: 570176 End Date: 02/21/2021 22:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/21/2021 21:38	1		ZB-35 0.53(mm)
ZZZZZ		02/21/2021 21:50	1		ZB-5 0.53(mm)
ZZZZZ		02/21/2021 21:50	1		ZB-35 0.53(mm)
ZZZZZ		02/21/2021 22:02	1		ZB-5 0.53(mm)
ZZZZZ		02/21/2021 22:02	1		ZB-35 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Instrument ID: HP6890-7 Start Date: 07/23/2020 16:32

Analysis Batch Number: 541875 End Date: 07/23/2020 19:27

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 480-541875/5		07/23/2020 16:32	1	7_72-289.D	ZB-5 0.53(mm)
IC 480-541875/5		07/23/2020 16:32	1	7_72-289.D	ZB-35 0.53(mm)
IC 480-541875/6		07/23/2020 16:48	1	7_72-290.D	ZB-5 0.53(mm)
IC 480-541875/6		07/23/2020 16:48	1	7_72-290.D	ZB-35 0.53(mm)
ICIS 480-541875/7		07/23/2020 17:04	1	7_72-291.D	ZB-5 0.53(mm)
ICIS 480-541875/7		07/23/2020 17:04	1	7_72-291.D	ZB-35 0.53(mm)
IC 480-541875/8		07/23/2020 17:20	1	7_72-292.D	ZB-5 0.53(mm)
IC 480-541875/8		07/23/2020 17:20	1	7_72-292.D	ZB-35 0.53(mm)
IC 480-541875/9		07/23/2020 17:36	1	7_72-293.D	ZB-5 0.53(mm)
IC 480-541875/9		07/23/2020 17:36	1	7_72-293.D	ZB-35 0.53(mm)
IC 480-541875/10		07/23/2020 17:52	1	7_72-294.D	ZB-5 0.53(mm)
IC 480-541875/10		07/23/2020 17:52	1	7_72-294.D	ZB-35 0.53(mm)
IC 480-541875/11		07/23/2020 18:07	1	7_72-295.D	ZB-5 0.53(mm)
IC 480-541875/11		07/23/2020 18:07	1	7_72-295.D	ZB-35 0.53(mm)
ICV 480-541875/12		07/23/2020 18:23	1		ZB-5 0.53(mm)
ICV 480-541875/12		07/23/2020 18:23	1		ZB-35 0.53(mm)
CCV 480-541875/13		07/23/2020 18:39	1		ZB-5 0.53(mm)
CCV 480-541875/13		07/23/2020 18:39	1		ZB-35 0.53(mm)
CCVL 480-541875/16		07/23/2020 19:27	1		ZB-5 0.53(mm)
CCVL 480-541875/16		07/23/2020 19:27	1		ZB-35 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Instrument ID: HP6890-7 Start Date: 02/18/2021 13:48

Analysis Batch Number: 569989 End Date: 02/19/2021 07:52

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 480-569989/5		02/18/2021 13:48	1	7_89-148.D	ZB-5 0.53(mm)
CCVIS 480-569989/5		02/18/2021 13:48	1	7_89-148.D	ZB-35 0.53(mm)
CCV 480-569989/6		02/18/2021 14:04	1	7_89-149.D	ZB-5 0.53(mm)
CCV 480-569989/6		02/18/2021 14:04	1	7_89-149.D	ZB-35 0.53(mm)
CCV 480-569989/7		02/18/2021 14:20	1	7_89-150.D	ZB-5 0.53(mm)
CCV 480-569989/7		02/18/2021 14:20	1	7_89-150.D	ZB-35 0.53(mm)
CCV 480-569989/8		02/18/2021 14:36	1	7_89-151.D	ZB-5 0.53(mm)
CCV 480-569989/8		02/18/2021 14:36	1	7_89-151.D	ZB-35 0.53(mm)
CCV 480-569989/9		02/18/2021 14:52	1	7_89-152.D	ZB-5 0.53(mm)
CCV 480-569989/9		02/18/2021 14:52	1	7_89-152.D	ZB-35 0.53(mm)
ZZZZZ		02/18/2021 15:23	1		ZB-5 0.53(mm)
ZZZZZ		02/18/2021 15:23	1		ZB-35 0.53(mm)
ZZZZZ		02/18/2021 15:39	1		ZB-5 0.53(mm)
ZZZZZ		02/18/2021 15:39	1		ZB-35 0.53(mm)
ZZZZZ		02/18/2021 15:55	1		ZB-5 0.53(mm)
ZZZZZ		02/18/2021 15:55	1		ZB-35 0.53(mm)
ZZZZZ		02/18/2021 16:11	1		ZB-5 0.53(mm)
ZZZZZ		02/18/2021 16:11	1		ZB-35 0.53(mm)
ZZZZZ		02/18/2021 16:27	1		ZB-5 0.53(mm)
ZZZZZ		02/18/2021 16:27	1		ZB-35 0.53(mm)
ZZZZZ		02/18/2021 16:43	1		ZB-5 0.53(mm)
ZZZZZ		02/18/2021 16:43	1		ZB-35 0.53(mm)
ZZZZZ		02/18/2021 16:59	1		ZB-5 0.53(mm)
ZZZZZ		02/18/2021 16:59	1		ZB-35 0.53(mm)
MB 480-569918/1-A		02/18/2021 17:14	1	7_89-161.D	ZB-5 0.53(mm)
MB 480-569918/1-A		02/18/2021 17:14	1	7_89-161.D	ZB-35 0.53(mm)
LCS 480-569918/2-A		02/18/2021 17:30	1	7_89-162.D	ZB-5 0.53(mm)
LCS 480-569918/2-A		02/18/2021 17:30	1	7_89-162.D	ZB-35 0.53(mm)
ZZZZZ		02/18/2021 17:46	1		ZB-5 0.53(mm)
ZZZZZ		02/18/2021 17:46	1		ZB-35 0.53(mm)
ZZZZZ		02/18/2021 18:02	1		ZB-5 0.53(mm)
ZZZZZ		02/18/2021 18:02	1		ZB-35 0.53(mm)
ZZZZZ		02/18/2021 18:18	1		ZB-5 0.53(mm)
ZZZZZ		02/18/2021 18:18	1		ZB-35 0.53(mm)
ZZZZZ		02/18/2021 18:34	1		ZB-5 0.53(mm)
ZZZZZ		02/18/2021 18:34	1		ZB-35 0.53(mm)
ZZZZZ		02/18/2021 18:49	1		ZB-5 0.53(mm)
ZZZZZ		02/18/2021 18:49	1		ZB-35 0.53(mm)
ZZZZZ		02/18/2021 19:05	1		ZB-5 0.53(mm)
ZZZZZ		02/18/2021 19:05	1		ZB-35 0.53(mm)
ZZZZZ		02/18/2021 19:21	1		ZB-5 0.53(mm)
ZZZZZ		02/18/2021 19:21	1		ZB-35 0.53(mm)
ZZZZZ		02/18/2021 19:37	1		ZB-5 0.53(mm)
ZZZZZ		02/18/2021 19:37	1		ZB-35 0.53(mm)
ZZZZZ		02/18/2021 19:53	1		ZB-5 0.53(mm)

8082A

PCBS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Instrument ID: HP6890-7 Start Date: 02/18/2021 13:48

Analysis Batch Number: 569989 End Date: 02/19/2021 07:52

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/18/2021 19:53	1		ZB-35 0.53(mm)
ZZZZZ		02/18/2021 20:09	1		ZB-5 0.53(mm)
ZZZZZ		02/18/2021 20:09	1		ZB-35 0.53(mm)
ZZZZZ		02/18/2021 20:25	1		ZB-5 0.53(mm)
ZZZZZ		02/18/2021 20:25	1		ZB-35 0.53(mm)
CCV 480-569989/31		02/18/2021 20:40	1	7_89-174.D	ZB-5 0.53(mm)
CCV 480-569989/31		02/18/2021 20:40	1	7_89-174.D	ZB-35 0.53(mm)
480-181249-5	EB-20210210	02/18/2021 21:12	1	7_89-176.D	ZB-5 0.53(mm)
480-181249-5	EB-20210210	02/18/2021 21:12	1	7_89-176.D	ZB-35 0.53(mm)
ZZZZZ		02/18/2021 21:28	1		ZB-5 0.53(mm)
ZZZZZ		02/18/2021 21:28	1		ZB-35 0.53(mm)
ZZZZZ		02/19/2021 06:49	1		ZB-5 0.53(mm)
ZZZZZ		02/19/2021 06:49	1		ZB-35 0.53(mm)
ZZZZZ		02/19/2021 07:04	100		ZB-5 0.53(mm)
ZZZZZ		02/19/2021 07:04	100		ZB-35 0.53(mm)
ZZZZZ		02/19/2021 07:20	20		ZB-5 0.53(mm)
ZZZZZ		02/19/2021 07:20	20		ZB-35 0.53(mm)
ZZZZZ		02/19/2021 07:36	500		ZB-5 0.53(mm)
ZZZZZ		02/19/2021 07:36	500		ZB-35 0.53(mm)
ZZZZZ		02/19/2021 07:52	1		ZB-5 0.53(mm)
ZZZZZ		02/19/2021 07:52	1		ZB-35 0.53(mm)

PCBS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Batch Number: 569918 Batch Start Date: 02/18/21 08:55 Batch Analyst: Pollock, Jacob M

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	O_608PCBSpike 00020	O_PCBLLsurr 00062	
MB 480-569918/1		3510C, 8082A		250 mL	2 mL	7 SU		1 mL	
LCS 480-569918/2		3510C, 8082A		250 mL	2 mL	7 SU	1 mL	1 mL	
480-181249-B-5	EB-20210210	3510C, 8082A	T	250 mL	2 mL	6 SU		1 mL	

Batch Notes	
Acid used for Clean Up ID	6218582
Analyst ID - Concentration	JP
Copper ID	6184893
Analyst ID - Clean Up	JP 2/18/21
Exchange Solvent ID	6311311
Analyst ID - Extraction	JP
Method/Fraction	3510C_LVI_1YR/8082A
Na2SO4 ID	6222021
Prep Solvent ID	6333379
Prep Solvent Volume Used	60 mL
Analyst ID - Spike Analyst	JP
Analyst ID - Spike Witness Analyst	JP
Sufficient Volume for Batch QC	Yes
Vial Lot Number	300938

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PCBS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Batch Number: 570093 Batch Start Date: 02/19/21 08:55 Batch Analyst: Fani, Viola X

Batch Method: 3550C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	O_8081/82surr 00142	O_8082spike 00082	AnalysisComment	
MB 480-570093/1		3550C, 8082A		2.15 g	10 mL	1 mL			
LCS 480-570093/2		3550C, 8082A		2.03 g	10 mL	1 mL	1 mL		
480-181249-D-3 MS	SB-12A (4-6)	3550C, 8082A	T	2.46 g	10 mL	1 mL	1 mL		
480-181249-D-3 MSD	SB-12A (4-6)	3550C, 8082A	T	2.44 g	10 mL	1 mL	1 mL		
480-181249-D-3	SB-12A (4-6)	3550C, 8082A	T	2.08 g	10 mL	1 mL			
480-181249-D-1	SB-12C (32-33)	3550C, 8082A	T	2.08 g	10 mL	1 mL			
480-181249-D-2	SB-12C (55-56)	3550C, 8082A	T	2.18 g	10 mL	1 mL		pulpy	
480-181249-D-4	SB-12A (13-15)	3550C, 8082A	T	2.35 g	10 mL	1 mL			
480-181249-D-6	DUP-SB (13-15)	3550C, 8082A	T	2.29 g	10 mL	1 mL			

Batch Notes	
Acid used for Clean Up ID	6218582
Blank Matrix ID	6341044
Copper ID	6184893
Analyst ID - Clean Up	VF 2/19/21
Analyst ID - Extraction	VF
Method/Fraction	3550C_PCB_1YR-8082A
Na2SO4 ID	6341044
Prep Solvent ID	6311312
Analyst ID - Spike Analyst	VF
Analyst ID - Spike Witness Analyst	VF
Sufficient Volume for Batch QC	Yes
Vial Lot Number	1736311171

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PFC_IDA

Fluorinated Alkyl Substances

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFBA #	PFPeA #	C3PFBS #	PFHxA #	C4PFHA #	PFHxS #	M262FTS #	PFOA #
SB-12C (32-33)	480-181249-1	42	98	99	105	101	98	104	102
SB-12C (55-56)	480-181249-2	79	79	69	85	82	67	63	77
SB-12A (4-6)	480-181249-3	89	93	89	107	102	90	108	98
SB-12A (13-15)	480-181249-4	39	94	96	103	99	104	104	99
DUP-SB (13-15)	480-181249-6	36	96	99	104	99	98	100	97
	MB 200-164298/1-A	75	103	108	108	111	105	117	106
	LCS 200-164298/2-A	71	105	106	108	105	106	106	106
SB-12A (4-6) MS	480-181249-3 MS	84	90	87	99	98	88	104	95
SB-12A (4-6) MSD	480-181249-3 MSD	75	85	84	91	89	80	105	89

	QC LIMITS
PFBA = 13C4 PFBA	25-150
PFPeA = 13C5 PFPeA	25-150
C3PFBS = 13C3 PFBS	50-150
PFHxA = 13C2 PFHxA	50-150
PFHxS = 18O2 PFHxS	50-150
C4PFHA = 13C4 PFHpA	50-150
M262FTS = M2-6:2 FTS	25-150
PFOA = 13C4 PFOA	50-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFOS #	PFNA #	PFDA #	M282FTS #	PFOSA #	d3NMFOS #	PFUnA #	d5NEFOS #
SB-12C (32-33)	480-181249-1	101	98	93	118	96	94	88	86
SB-12C (55-56)	480-181249-2	70	77	78	67	70	72	77	74
SB-12A (4-6)	480-181249-3	91	98	105	138	86	78	102	99
SB-12A (13-15)	480-181249-4	105	95	90	105	93	92	88	93
DUP-SB (13-15)	480-181249-6	100	93	91	96	104	94	88	86
	MB 200-164298/1-A	105	100	96	102	101	87	90	93
	LCS 200-164298/2-A	108	99	94	103	97	90	87	89
SB-12A (4-6) MS	480-181249-3 MS	81	89	95	134	80	72	97	98
SB-12A (4-6) MSD	480-181249-3 MSD	82	92	89	119	77	73	94	87

	QC LIMITS
PFOS = 13C4 PFOS	50-150
PFNA = 13C5 PFNA	50-150
PFDA = 13C2 PFDA	50-150
M282FTS = M2-8:2 FTS	25-150
PFOSA = 13C8 FOSA	25-150
d3NMFOS = d3-NMeFOSAA	50-150
PFUnA = 13C2 PFUnA	50-150
d5NEFOS = d5-NEtFOSAA	50-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFDoA #	PFTDA #
SB-12C (32-33)	480-181249-1	90	74
SB-12C (55-56)	480-181249-2	73	62
SB-12A (4-6)	480-181249-3	88	77
SB-12A (13-15)	480-181249-4	86	76
DUP-SB (13-15)	480-181249-6	88	75
	MB 200-164298/1-A	91	77
	LCS 200-164298/2-A	92	77
SB-12A (4-6) MS	480-181249-3 MS	87	76
SB-12A (4-6) MSD	480-181249-3 MSD	82	69

	QC LIMITS
PFDoA = 13C2 PFDoA	50-150
PFTDA = 13C2 PFTeDA	50-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFBA #	PFPeA #	C3PFBS #	PFHxA #	C4PFHA #	PFHxS #	M262FTS #	PFOA #
EB-20210210	480-181249-5	109	109	103	110	109	102	104	104
	MB 200-164111/1-A	112	110	106	107	107	109	110	106
	LCS 200-164111/2-A	116	112	105	114	110	112	110	113

	QC LIMITS
PFBA = 13C4 PFBA	25-150
PFPeA = 13C5 PFPeA	25-150
C3PFBS = 13C3 PFBS	50-150
PFHxA = 13C2 PFHxA	50-150
PFHxS = 18O2 PFHxS	50-150
C4PFHA = 13C4 PFHpA	50-150
M262FTS = M2-6:2 FTS	25-150
PFOA = 13C4 PFOA	50-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFOS #	PFNA #	PFDA #	M282FTS #	PFOSA #	d3NMFOS #	PFUnA #	d5NEFOS #
EB-20210210	480-181249-5	102	105	94	104	69	81	85	75
	MB 200-164111/1-A	100	101	95	106	88	93	84	85
	LCS 200-164111/2-A	111	110	106	110	87	90	92	91

	QC LIMITS
PFOS = 13C4 PFOS	50-150
PFNA = 13C5 PFNA	50-150
PFDA = 13C2 PFDA	50-150
M282FTS = M2-8:2 FTS	25-150
PFOSA = 13C8 FOSA	25-150
d3NMFOS = d3-NMeFOSAA	50-150
PFUnA = 13C2 PFUnA	50-150
d5NEFOS = d5-NEtFOSAA	50-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFDoA #	PFTDA #
EB-20210210	480-181249-5	74	69
	MB 200-164111/1-A	82	80
	LCS 200-164111/2-A	84	87

	QC LIMITS
PFDoA = 13C2 PFDoA	50-150
PFTDA = 13C2 PFTeDA	50-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Matrix: Water Level: Low Lab File ID: PA210219B03.d

Lab ID: LCS 200-164111/2-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	40.0	30.71	77	50-150	
Perfluoropentanoic acid (PFPeA)	40.0	31.32	78	50-150	
Perfluorohexanoic acid (PFHxA)	40.0	32.08	80	70-130	
Perfluoroheptanoic acid (PFHpA)	40.0	33.89	85	70-130	
Perfluorooctanoic acid (PFOA)	40.0	33.43	84	70-130	
Perfluorononanoic acid (PFNA)	40.0	34.52	86	70-130	
Perfluorodecanoic acid (PFDA)	40.0	34.25	86	70-130	
Perfluoroundecanoic acid (PFUnA)	40.0	39.11	98	70-130	
Perfluorododecanoic acid (PFDoA)	40.0	35.99	90	70-130	
Perfluorotridecanoic acid (PFTriA)	40.0	39.25	98	70-130	
Perfluorotetradecanoic acid (PFTeA)	40.0	40.69	102	70-130	
Perfluorobutanesulfonic acid (PFBS)	35.4	30.67	87	70-130	
Perfluorohexanesulfonic acid (PFHxS)	36.4	30.66	84	70-130	
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	32.77	86	50-150	
Perfluorodecanesulfonic acid (PFDS)	38.6	31.63	82	50-150	
Perfluorooctanesulfonic acid (PFOS)	37.1	31.07	84	70-130	
Perfluorooctanesulfonamide (FOSA)	40.0	28.23	71	50-150	
13C4 PFHpA	50.0	54.95	110	50-150	
13C4 PFOA	50.0	56.35	113	50-150	
13C5 PFNA	50.0	55.13	110	50-150	
13C4 PFBA	50.0	57.81	116	25-150	
13C2 PFHxA	50.0	57.09	114	50-150	
13C2 PFDA	50.0	52.86	106	50-150	
13C2 PFUnA	50.0	45.95	92	50-150	
18O2 PFHxS	47.3	52.98	112	50-150	
13C2 PFDoA	50.0	42.08	84	50-150	
13C4 PFOS	47.8	53.07	111	50-150	
13C8 FOSA	50.0	43.60	87	25-150	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	35.04	88	70-130	
13C5 PFPeA	50.0	55.86	112	25-150	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	33.32	83	70-130	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Matrix: Water Level: Low Lab File ID: PA210219B03.d

Lab ID: LCS 200-164111/2-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
13C2 PFTeDA	50.0	43.59	87	50-150	
d3-NMeFOSAA	50.0	44.84	90	50-150	
6:2 FTS	37.9	30.15	80	50-150	
d5-NEtFOSAA	50.0	45.52	91	50-150	
8:2 FTS	38.3	27.66	72	50-150	
M2-6:2 FTS	47.5	52.21	110	25-150	
13C3 PFBS	46.5	48.99	105	50-150	
M2-8:2 FTS	47.9	52.83	110	25-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: PA210226A05.d

Lab ID: LCS 200-164298/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	2.00	2.062	103	70-130	
Perfluoropentanoic acid (PFPeA)	2.00	1.839	92	70-130	
Perfluorohexanoic acid (PFHxA)	2.00	1.887	94	70-130	
Perfluoroheptanoic acid (PFHpA)	2.00	1.910	96	70-130	
Perfluorooctanoic acid (PFOA)	2.00	1.845	92	70-130	
Perfluorononanoic acid (PFNA)	2.00	1.938	97	70-130	
Perfluorodecanoic acid (PFDA)	2.00	1.913	96	70-130	
Perfluoroundecanoic acid (PFUnA)	2.00	2.042	102	70-130	
Perfluorododecanoic acid (PFDoA)	2.00	1.766	88	70-130	
Perfluorotridecanoic acid (PFTriA)	2.00	1.930	96	70-130	
Perfluorotetradecanoic acid (PFTeA)	2.00	2.153	108	70-130	
Perfluorobutanesulfonic acid (PFBS)	1.77	1.740	98	70-130	
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.707	94	70-130	
Perfluoroheptanesulfonic Acid (PFHpS)	1.90	1.779	93	70-130	
Perfluorodecanesulfonic acid (PFDS)	1.93	1.835	95	70-130	
Perfluorooctanesulfonic acid (PFOS)	1.86	1.804	97	70-130	
Perfluorooctanesulfonamide (PFOSA)	2.00	1.916	96	70-130	
13C4 PFHpA	2.50	2.635	105	50-150	
13C4 PFOA	2.50	2.658	106	50-150	
13C5 PFNA	2.50	2.467	99	50-150	
13C4 PFBA	2.50	1.775	71	25-150	
13C2 PFHxA	2.50	2.692	108	50-150	
13C2 PFDA	2.50	2.347	94	50-150	
13C2 PFUnA	2.50	2.186	87	50-150	
18O2 PFHxS	2.37	2.499	106	50-150	
13C2 PFDoA	2.50	2.302	92	50-150	
13C4 PFOS	2.39	2.584	108	50-150	
13C8 FOSA	2.50	2.434	97	25-150	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	2.011	101	70-130	
13C5 PFPeA	2.50	2.624	105	25-150	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	2.036	102	70-130	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: PA210226A05.d

Lab ID: LCS 200-164298/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
13C2 PFTeDA	2.50	1.918	77	50-150	
d3-NMeFOSAA	2.50	2.261	90	50-150	
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	1.90	1.797 J	95	70-130	
d5-NEtFOSAA	2.50	2.219	89	50-150	
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	1.92	1.592 J	83	70-130	
M2-6:2 FTS	2.38	2.508	106	25-150	
13C3 PFBS	2.33	2.469	106	50-150	
M2-8:2 FTS	2.40	2.461	103	25-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: PA210226A12.d

Lab ID: 480-181249-3 MS Client ID: SB-12A (4-6) MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	2.43	0.59 U	2.528	104	70-130	
Perfluoropentanoic acid (PFPeA)	2.43	0.24 U	2.223	92	70-130	
Perfluorohexanoic acid (PFHxA)	2.43	0.24 U	2.326	96	70-130	
Perfluoroheptanoic acid (PFHpA)	2.43	0.24 U	2.381	98	70-130	
Perfluorooctanoic acid (PFOA)	2.43	0.046 J	2.342	95	70-130	
Perfluorononanoic acid (PFNA)	2.43	0.24 U	2.365	97	70-130	
Perfluorodecanoic acid (PFDA)	2.43	0.24 U	2.338	96	70-130	
Perfluoroundecanoic acid (PFUnA)	2.43	0.24 U	2.384	98	70-130	
Perfluorododecanoic acid (PFDoA)	2.43	0.24 U	2.094	86	70-130	
Perfluorotridecanoic acid (PFTriA)	2.43	0.24 U	2.235	92	70-130	
Perfluorotetradecanoic acid (PFTeA)	2.43	0.24 U	2.826	116	70-130	
Perfluorobutanesulfonic acid (PFBS)	2.15	0.24 U	2.054	96	70-130	
Perfluorohexanesulfonic acid (PFHxS)	2.21	0.24 U	2.100	95	70-130	
Perfluoroheptanesulfonic Acid (PFHpS)	2.31	0.24 U	2.457	106	70-130	
Perfluorooctanesulfonic acid (PFOS)	2.25	0.28	2.643	105	70-130	
Perfluorodecanesulfonic acid (PFDS)	2.34	0.24 U	2.468	105	70-130	
Perfluorooctanesulfonamide (PFOSA)	2.43	0.013 J	2.428	100	70-130	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.43	2.37 U	2.708	112	70-130	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.43	0.18 J	2.375 J	91	70-130	
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	2.30	2.37 U	2.138 J	93	70-130	
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	2.32	2.37 U	1.550 J	67	70-130	*
18O2 PFHxS	2.87	2.52	2.532	88	50-150	
13C4 PFHpA	3.03	3.00	2.980	98	50-150	
13C4 PFOA	3.03	2.91	2.868	95	50-150	
13C4 PFOS	2.90	2.57	2.343	81	50-150	
13C5 PFNA	3.03	2.90	2.701	89	50-150	
13C4 PFBA	3.03	2.63	2.563	84	25-150	
13C2 PFHxA	3.03	3.17	3.015	99	50-150	
13C2 PFDA	3.03	3.11	2.870	95	50-150	
13C2 PFUnA	3.03	3.02	2.936	97	50-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: PA210226A12.d

Lab ID: 480-181249-3 MS Client ID: SB-12A (4-6) MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
13C2 PFDoA	3.03	2.60	2.638	87	50-150	
13C8 FOSA	3.03	2.53	2.428	80	25-150	
13C5 PFPeA	3.03	2.75	2.716	90	25-150	
13C2 PFTeDA	3.03	2.26	2.298	76	50-150	
d3-NMeFOSAA	3.03	2.31	2.179	72	50-150	
d5-NEtFOSAA	3.03	2.94	2.976	98	50-150	
M2-6:2 FTS	2.88	3.04	2.998	104	25-150	
M2-8:2 FTS	2.91	3.92	3.883	134	25-150	
13C3 PFBS	2.82	2.46	2.466	87	50-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: PA210226A13.d

Lab ID: 480-181249-3 MSD Client ID: SB-12A (4-6) MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	2.42	2.671	111	6	20	70-130	
Perfluoropentanoic acid (PFPeA)	2.42	2.174	90	2	20	70-130	
Perfluorohexanoic acid (PFHxA)	2.42	2.349	97	1	20	70-130	
Perfluoroheptanoic acid (PFHpA)	2.42	2.473	102	4	20	70-130	
Perfluorooctanoic acid (PFOA)	2.42	2.440	99	4	20	70-130	
Perfluorononanoic acid (PFNA)	2.42	2.356	97	0	20	70-130	
Perfluorodecanoic acid (PFDA)	2.42	2.522	104	8	20	70-130	
Perfluoroundecanoic acid (PFUnA)	2.42	2.518	104	5	20	70-130	
Perfluorododecanoic acid (PFDoA)	2.42	2.263	94	8	20	70-130	
Perfluorotridecanoic acid (PFTriA)	2.42	2.327	96	4	20	70-130	
Perfluorotetradecanoic acid (PFTeA)	2.42	2.703	112	4	20	70-130	
Perfluorobutanesulfonic acid (PFBS)	2.14	1.966	92	4	20	70-130	
Perfluorohexanesulfonic acid (PFHxS)	2.20	2.205	100	5	20	70-130	
Perfluoroheptanesulfonic Acid (PFHpS)	2.30	2.372	103	4	20	70-130	
Perfluorooctanesulfonic acid (PFOS)	2.24	2.429	96	8	20	70-130	
Perfluorodecanesulfonic acid (PFDS)	2.33	2.317	99	6	20	70-130	
Perfluorooctanesulfonamide (PFOSA)	2.42	2.429	100	0	20	70-130	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.42	2.700	112	0	20	70-130	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.42	2.681	104	12	20	70-130	
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	2.29	2.023 J	88	6	20	70-130	
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	2.32	1.901 J	82	20	20	70-130	
18O2 PFHxS	2.86	2.275	80			50-150	
13C4 PFHpA	3.02	2.698	89			50-150	
13C4 PFOA	3.02	2.681	89			50-150	
13C4 PFOS	2.89	2.375	82			50-150	
13C5 PFNA	3.02	2.765	92			50-150	
13C4 PFBA	3.02	2.274	75			25-150	
13C2 PFHxA	3.02	2.739	91			50-150	
13C2 PFDA	3.02	2.692	89			50-150	
13C2 PFUnA	3.02	2.847	94			50-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: PA210226A13.d

Lab ID: 480-181249-3 MSD Client ID: SB-12A (4-6) MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
13C2 PFDoA	3.02	2.473	82			50-150	
13C8 FOSA	3.02	2.312	77			25-150	
13C5 PFPeA	3.02	2.559	85			25-150	
13C2 PFTeDA	3.02	2.087	69			50-150	
d3-NMeFOSAA	3.02	2.203	73			50-150	
d5-NEtFOSAA	3.02	2.622	87			50-150	
M2-6:2 FTS	2.87	3.006	105			25-150	
M2-8:2 FTS	2.89	3.453	119			25-150	
13C3 PFBS	2.81	2.366	84			50-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Lab File ID: PA210219B02.d Lab Sample ID: MB 200-164111/1-A

Matrix: Water Date Extracted: 02/18/2021 15:01

Instrument ID: LC812 Date Analyzed: 02/19/2021 15:57

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-164111/2-A	PA210219B03.d	02/19/2021 16:05
EB-20210210	480-181249-5	PA210219B09.d	02/19/2021 16:55

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Lab File ID: PA210226A04.d Lab Sample ID: MB 200-164298/1-A

Matrix: Solid Date Extracted: 02/25/2021 15:08

Instrument ID: LC812 Date Analyzed: 02/26/2021 13:11

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-164298/2-A	PA210226A05.d	02/26/2021 13:19
SB-12C (32-33)	480-181249-1	PA210226A09.d	02/26/2021 13:52
SB-12C (55-56)	480-181249-2	PA210226A10.d	02/26/2021 14:00
SB-12A (4-6)	480-181249-3	PA210226A11.d	02/26/2021 14:09
SB-12A (4-6) MS	480-181249-3 MS	PA210226A12.d	02/26/2021 14:17
SB-12A (4-6) MSD	480-181249-3 MSD	PA210226A13.d	02/26/2021 14:25
SB-12A (13-15)	480-181249-4	PA210226A14.d	02/26/2021 14:34
DUP-SB (13-15)	480-181249-6	PA210226A15.d	02/26/2021 14:42

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Sample No.: ICIS 200-162365/11 Date Analyzed: 12/22/2020 13:13

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm)

Lab File ID (Standard): PA201222ICAL011.d Heated Purge: (Y/N) N

Calibration ID: 44876

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		889632	3.49				
UPPER LIMIT		1334448	3.69				
LOWER LIMIT		444816	3.29				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 200-162365/14		875786	3.49				
ICV 200-162365/15		893380	3.49				
CCVL 200-164129/5		1191171	3.48				
CCVIS 200-164129/6		991801	3.48				
CCVL 200-164334/2		1161318	3.49				
CCVIS 200-164334/3		988513	3.48				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
RT Limit = ± 0.2 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 537 (MODIFIED)

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Sample No.: CCVIS 200-164129/6 Date Analyzed: 02/19/2021 14:01

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm)

Lab File ID (Standard): PA210219A06.d Heated Purge: (Y/N) N

Calibration ID: 44876

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		991801	3.48				
UPPER LIMIT		1487702	3.68				
LOWER LIMIT		495901	3.28				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 200-164133/1		1284636	3.49				
MB 200-164111/1-A		1017083	3.49				
LCS 200-164111/2-A		960877	3.48				
480-181249-5	EB-20210210	974508	3.49				
CCV 200-164133/14		1021389	3.49				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
RT Limit = ± 0.2 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 537 (MODIFIED)

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Sample No.: CCVIS 200-164334/3 Date Analyzed: 02/26/2021 13:02

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm)

Lab File ID (Standard): PA210226A03.d Heated Purge: (Y/N) N

Calibration ID: 44876

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		988513	3.48				
UPPER LIMIT		1482770	3.68				
LOWER LIMIT		494257	3.28				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 200-164298/1-A		897055	3.48				
LCS 200-164298/2-A		918052	3.47				
480-181249-1	SB-12C (32-33)	902012	3.48				
480-181249-2	SB-12C (55-56)	931871	3.48				
480-181249-3	SB-12A (4-6)	920486	3.48				
480-181249-3 MS	SB-12A (4-6) MS	959575	3.48				
480-181249-3 MSD	SB-12A (4-6) MSD	1200518	3.48				
480-181249-4	SB-12A (13-15)	877099	3.48				
480-181249-6	DUP-SB (13-15)	878105	3.49				
CCV 200-164334/16		1206812	3.48				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
RT Limit = ± 0.2 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 537 (MODIFIED)

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12C (32-33) Lab Sample ID: 480-181249-1

Matrix: Solid Lab File ID: PA210226A09.d

Analysis Method: 537 (modified) Date Collected: 02/11/2021 11:25

Extraction Method: SHAKE Date Extracted: 02/25/2021 15:08

Sample wt/vol: 5.07(g) Date Analyzed: 02/26/2021 13:52

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 15.8 GPC Cleanup:(Y/N) N

Analysis Batch No.: 164334 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.31	J B	0.59	0.22
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.027	J	0.23	0.021
307-24-4	Perfluorohexanoic acid (PFHxA)	0.23	U	0.23	0.028
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.23	U	0.23	0.027
335-67-1	Perfluorooctanoic acid (PFOA)	0.021	J	0.23	0.016
375-95-1	Perfluorononanoic acid (PFNA)	0.23	U	0.23	0.023
335-76-2	Perfluorodecanoic acid (PFDA)	0.23	U	0.23	0.025
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.23	U	0.23	0.028
307-55-1	Perfluorododecanoic acid (PFDoA)	0.23	U	0.23	0.018
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.23	U	0.23	0.015
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.23	U	0.23	0.022
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.23	U	0.23	0.010
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.23	U	0.23	0.018
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.23	U	0.23	0.018
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.23	U	0.23	0.078
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.23	U	0.23	0.022
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.23	U	0.23	0.010
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.34	U	2.34	0.040
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.34	U	2.34	0.035
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	2.34	U	2.34	0.026
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	2.34	U	2.34	0.034

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12C (32-33) Lab Sample ID: 480-181249-1

Matrix: Solid Lab File ID: PA210226A09.d

Analysis Method: 537 (modified) Date Collected: 02/11/2021 11:25

Extraction Method: SHAKE Date Extracted: 02/25/2021 15:08

Sample wt/vol: 5.07(g) Date Analyzed: 02/26/2021 13:52

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 15.8 GPC Cleanup:(Y/N) N

Analysis Batch No.: 164334 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	98		50-150
STL01892	13C4 PFHpA	101		50-150
STL00990	13C4 PFOA	102		50-150
STL00991	13C4 PFOS	101		50-150
STL00995	13C5 PFNA	98		50-150
STL00992	13C4 PFBA	42		25-150
STL00993	13C2 PFHxA	105		50-150
STL00996	13C2 PFDA	93		50-150
STL00997	13C2 PFUnA	88		50-150
STL00998	13C2 PFDoA	90		50-150
STL01056	13C8 FOSA	96		25-150
STL01893	13C5 PFPeA	98		25-150
STL02116	13C2 PFTeDA	74		50-150
STL02118	d3-NMeFOSAA	94		50-150
STL02117	d5-NEtFOSAA	86		50-150
STL02279	M2-6:2 FTS	104		25-150
STL02280	M2-8:2 FTS	118		25-150
STL02337	13C3 PFBS	99		50-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A09.d
Lims ID: 480-181249-A-1-A
Client ID: SB-12C (32-33)
Sample Type: Client
Inject. Date: 26-Feb-2021 13:52:39 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 480-181249-A-1-A
Misc. Info.: 200-0044972-009 Plate: 1 Rack: 2
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 01-Mar-2021 10:52:47 Calib Date: 22-Dec-2020 13:29:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1604

First Level Reviewer: khanphomeea Date: 01-Mar-2021 09:42:38
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.080	2.082	-0.002	0.597	513377	0.5296		42.4	5228	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.080	2.082	-0.002	1.000	54203	0.1317			16.6	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.398	2.401	-0.003	0.688	860602	1.23		98.3	3205	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.385	2.401	-0.016	0.995	8790	0.0115			0.4	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.424	2.427	-0.003	0.696	1056538	1.15		98.6	187732	M
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.424	2.427	-0.003	1.000	2973	0.002892	Target=2.21		4.3	
298.90 > 99.00	2.424	2.427	-0.003	1.000	1692		1.76(1.11-3.32)		1.4	
D 7 13C2 PFHxA										
315.00 > 270.00	2.756	2.759	-0.003	0.791	964121	1.31		105	2946	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.768	2.759	0.009	1.004	4609	0.005470	Target=12.83		0.9	M
313.00 > 119.00	2.768	2.759	0.009	1.004	636		7.25(6.42-19.25)		0.9	M
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.121	3.123	-0.002	1.000	3651	0.004583	Target=4.15		12.1	M
399.00 > 99.00	3.111	3.123	-0.012	0.997	1094		3.34(2.08-6.23)		1.4	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.121	3.123	-0.002	0.896	799362	1.16		98.5	1632	
D 9 13C4 PFHpA										
367.00 > 322.00	3.132	3.133	-0.001	0.899	891768	1.27		101	2407	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.121	3.133	-0.012	0.997	1565	0.002008	Target=3.66		0.6	M
363.00 > 169.00	3.121	3.133	-0.012	0.997	823		1.90(1.83-5.49)		1.9	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 Perfluoroheptanesulfonic acid										RM
449.00 > 80.00	3.465	3.475	-0.010	0.911	301	0.000468	Target=5.95		2.6	RM
449.00 > 99.00	3.465	3.475	-0.010	0.911	174		1.73(2.98-8.93)		1.0	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.474	3.475	-0.001	0.997	105394	1.23		104	348	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.492	3.475	0.017	1.005	228	0.002309			7.7	M
D 14 13C4 PFOA										
417.00 > 372.00	3.483	3.484	-0.001	1.000	906573	1.27		102	4209	
* 62 13C2 PFOA										
415.00 > 370.00	3.483	3.484	-0.001		902012	1.25			1097	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.483	3.493	-0.010	1.000	6915	0.008796	Target=2.58		1.4	M
413.00 > 169.00	3.483	3.493	-0.010	1.000	2413		2.87(1.29-3.87)		7.1	M
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.794	3.796	-0.002	0.997	2158	0.003936	Target=5.65		2.5	RM
499.00 > 99.00	3.775	3.796	-0.021	0.992	1078		2.00(2.82-8.47)		1.5	M
D 18 13C4 PFOS										
503.00 > 80.00	3.804	3.796	0.008	1.092	569728	1.21		101	1995	
D 19 13C5 PFNA										
468.00 > 423.00	3.814	3.816	-0.002	1.095	769998	1.22		97.8	3215	
D 23 13C2 PFDA										
515.00 > 470.00	4.115	4.118	-0.003	1.181	697499	1.16		92.6	3279	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.126	4.129	-0.003	1.185	124733	1.41		118	359	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.171	4.129	0.042	1.011	46	0.000649			1.3	M
D 21 13C8 FOSA										
506.00 > 78.00	4.215	4.207	0.008	1.210	1057462	1.19		95.6	2384	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.225	4.217	0.008	1.002	975	0.001150			5.5	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.257	4.260	-0.003	1.222	51107	1.17		93.6	755	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.336	4.350	-0.014	1.140	551	0.001689	Target=2.80		1.1	M
599.00 > 99.00	4.347	4.350	-0.003	1.143	197		2.80(1.40-4.19)		1.2	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.380	4.373	0.007	1.257	545356	1.10		88.2	4188	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.391	4.384	0.007	1.261	45201	1.07		85.6	558	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.380	4.395	-0.015	0.997	274	0.008185			2.7	M
D 36 13C2 PFDoA										
615.00 > 570.00	4.601	4.606	-0.005	1.321	587863	1.13		90.0	2519	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.995	4.998	-0.003	1.434	355515	0.9204		73.6	1023	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	4.985	4.998	-0.013	0.998	135	0.002560	Target=1.06		6.4	M
713.00 > 219.00	5.014	4.998	0.016	1.004	134		1.01(0.53-1.59)		3.7	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

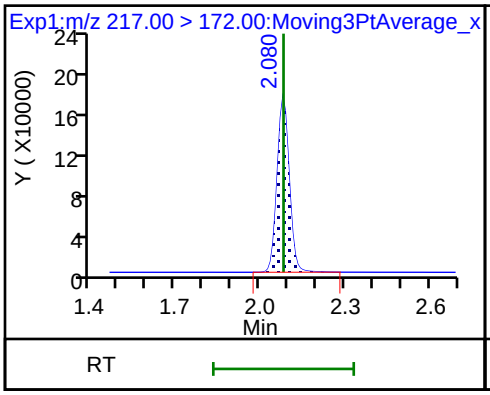
Report Date: 01-Mar-2021 10:53:13 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Burlington

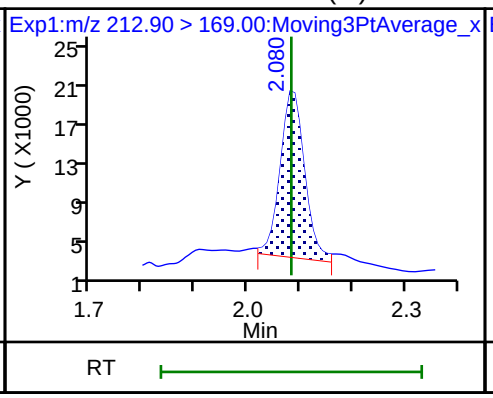
Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A09.d

Injection Date:	26-Feb-2021 13:52:39	Instrument ID:	LC812
Lims ID:	480-181249-A-1-A	Lab Sample ID:	200-181249-1
Client ID:	SB-12C (32-33)		
Operator ID:	lc812tech	ALS Bottle#:	9 Worklist Smp#: 9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL

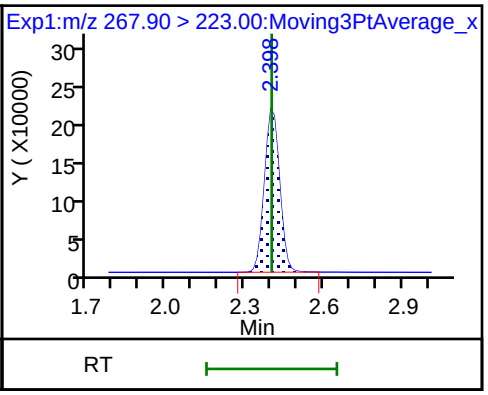
D 1 13C4 PFBA



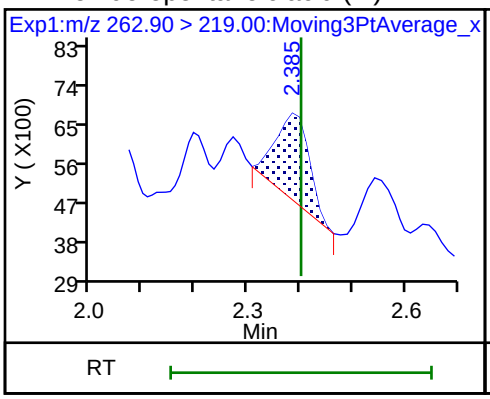
2 Perfluorobutanoic acid (M)



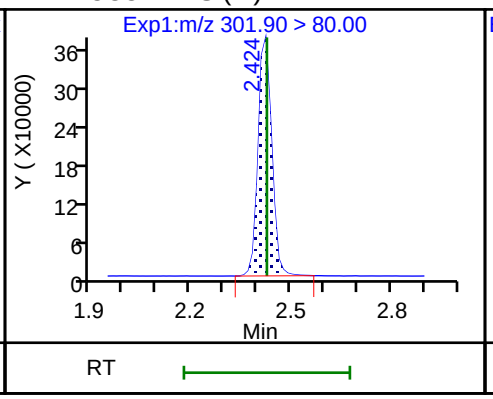
D 3 13C5 PFPeA



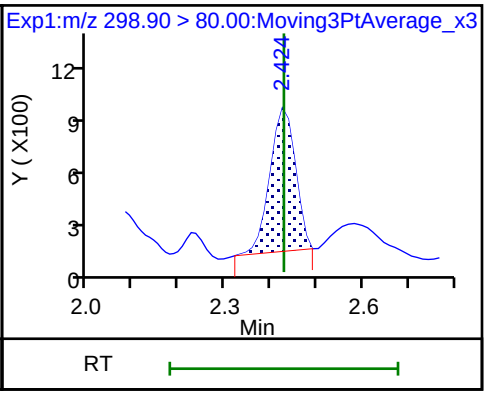
4 Perfluoropentanoic acid (M)



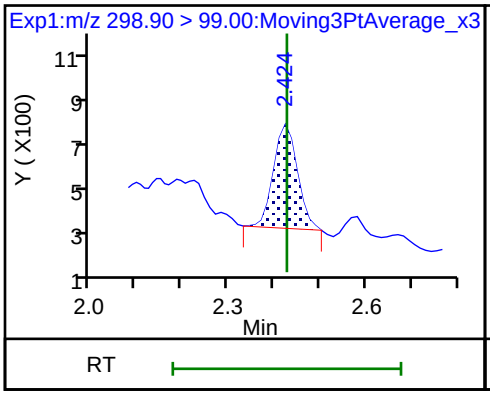
D 47 13C3 PFBS (M)



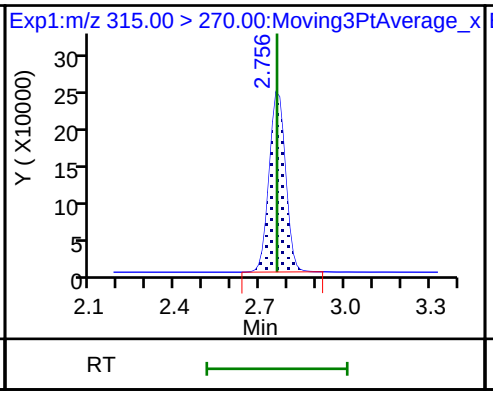
5 Perfluorobutanesulfonic acid



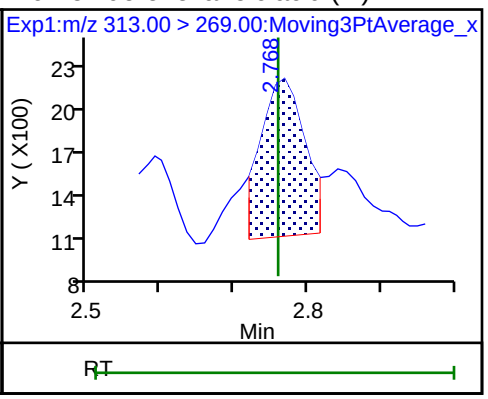
5 Perfluorobutanesulfonic acid



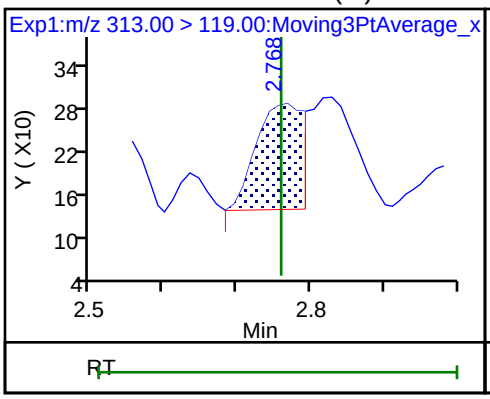
D 7 13C2 PFHxA



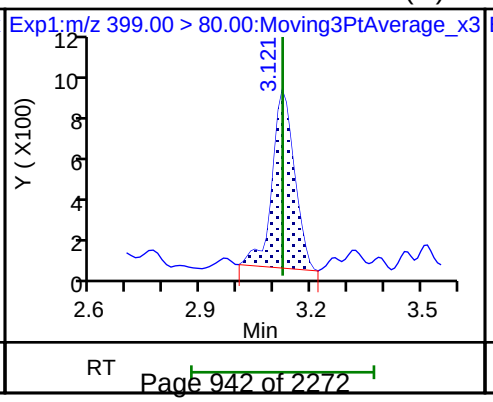
6 Perfluorohexanoic acid (M)



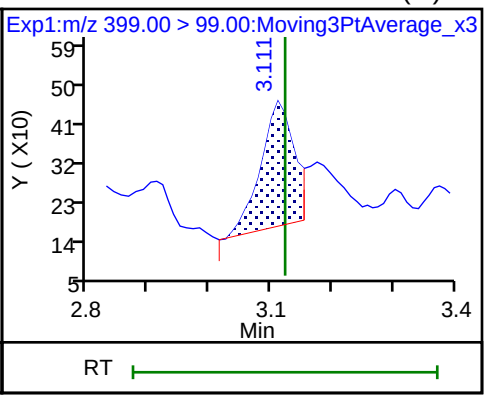
6 Perfluorohexanoic acid (M)



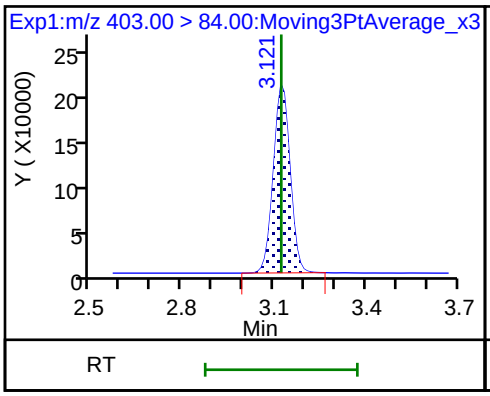
8 Perfluorohexanesulfonic acid (M)



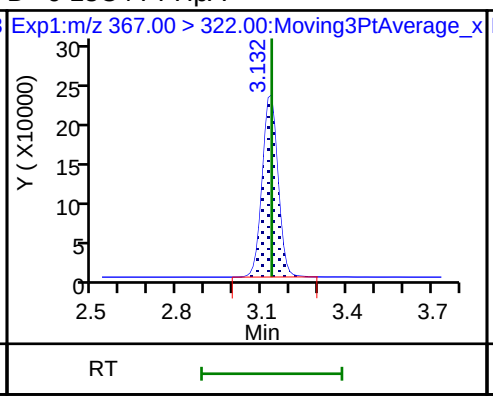
8 Perfluorohexanesulfonic acid (M)



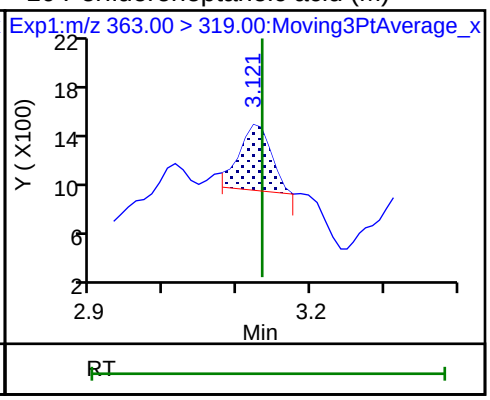
D 11 18O2 PFHxS



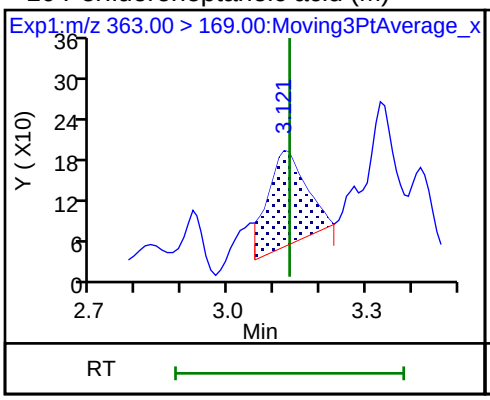
D 9 13C4 PFHpA



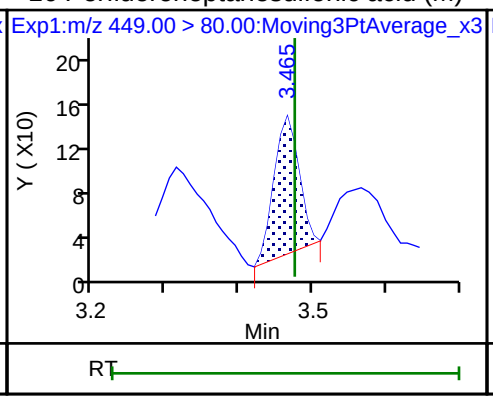
10 Perfluoroheptanoic acid (M)



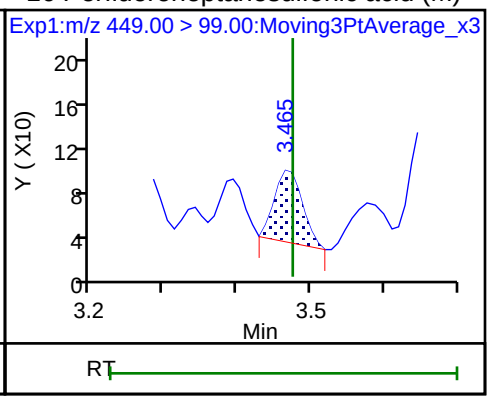
10 Perfluoroheptanoic acid (M)



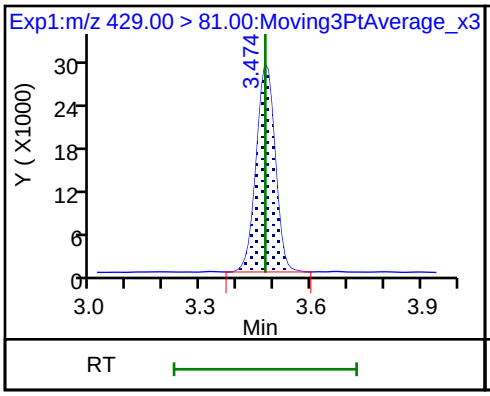
16 Perfluoroheptanesulfonic acid (M)



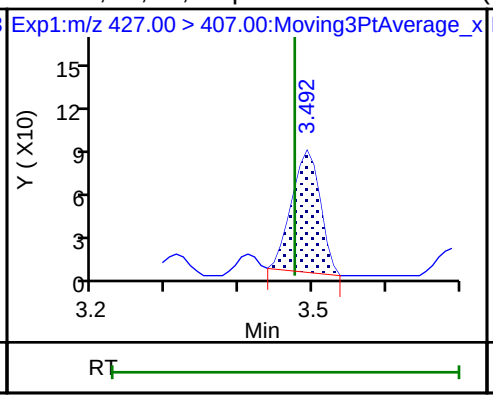
16 Perfluoroheptanesulfonic acid (M)



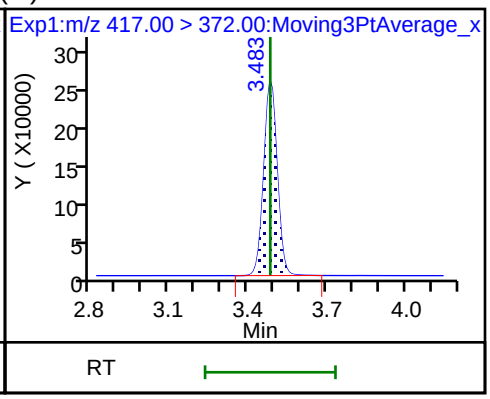
D 12 M2-6:2 FTS



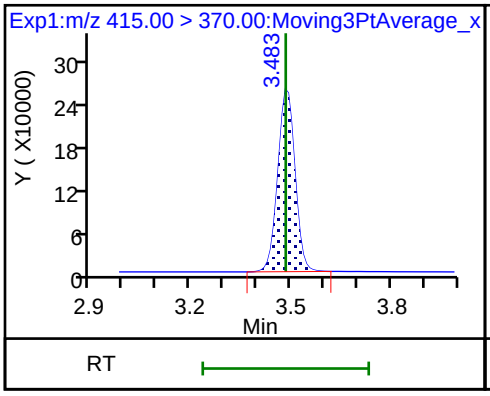
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



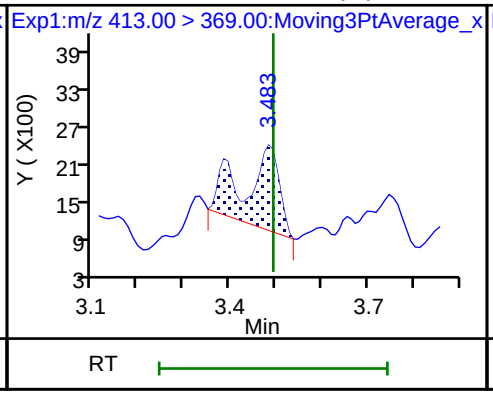
D 14 13C4 PFOA



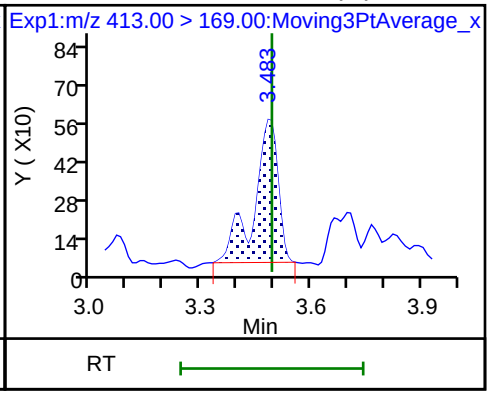
* 62 13C2 PFOA



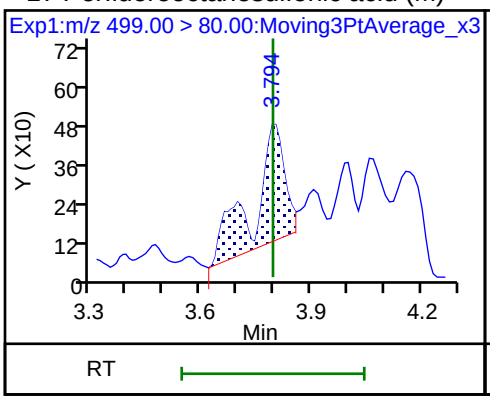
15 Perfluorooctanoic acid (M)



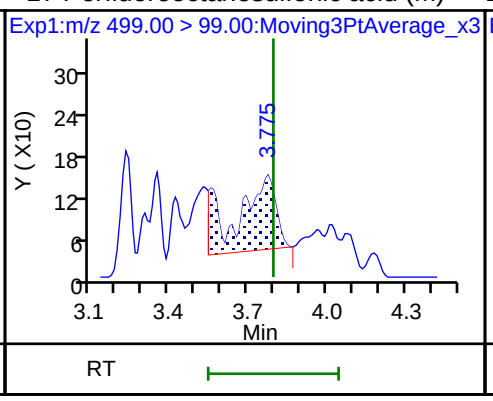
15 Perfluorooctanoic acid (M)



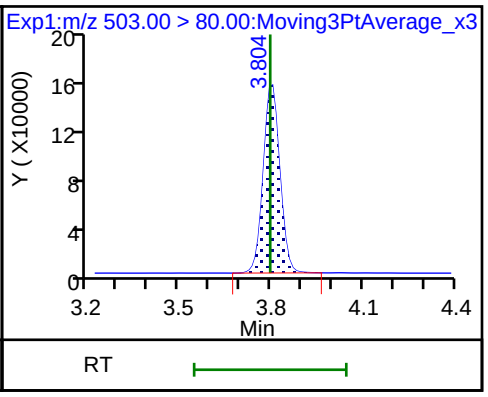
17 Perfluorooctanesulfonic acid (M)



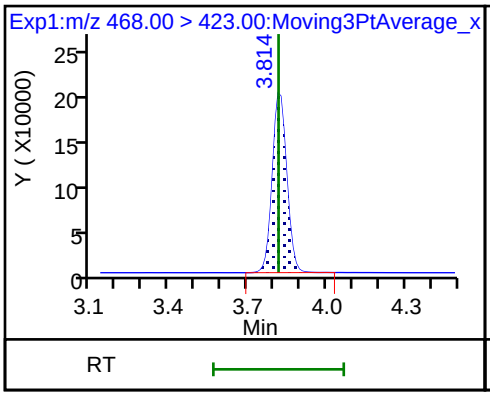
17 Perfluorooctanesulfonic acid (M)



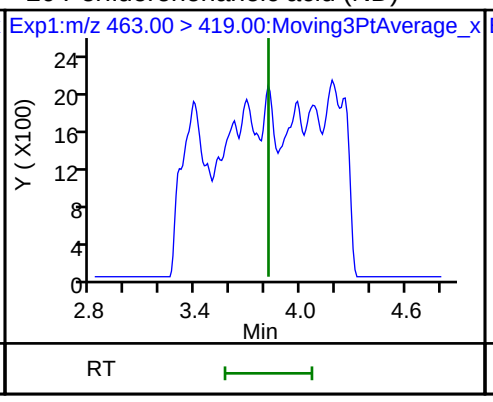
D 18 13C4 PFOS



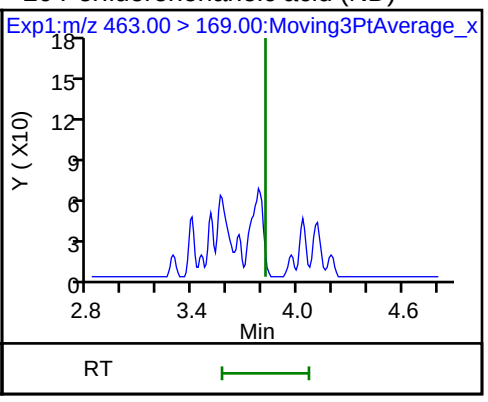
D 19 13C5 PFNA



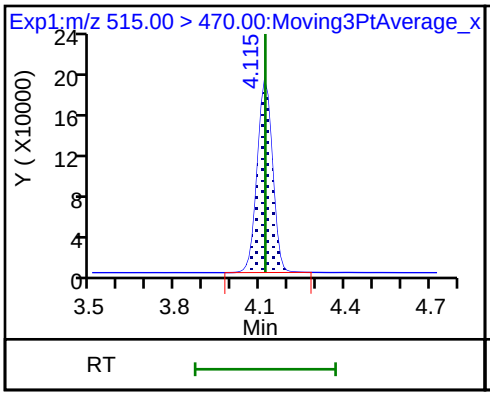
20 Perfluorononanoic acid (ND)



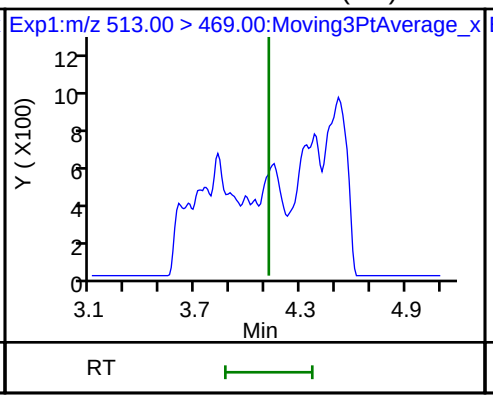
20 Perfluorononanoic acid (ND)



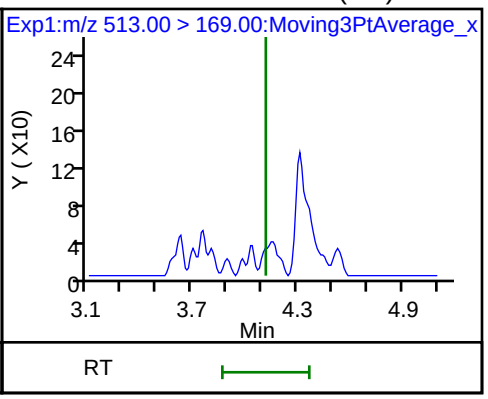
D 23 13C2 PFDA



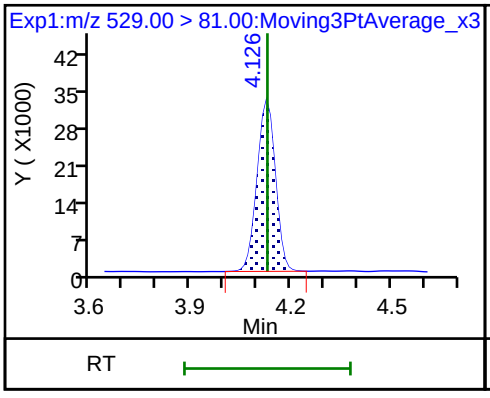
24 Perfluorodecanoic acid (ND)



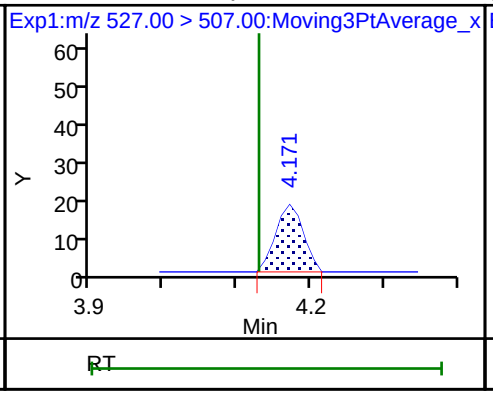
24 Perfluorodecanoic acid (ND)



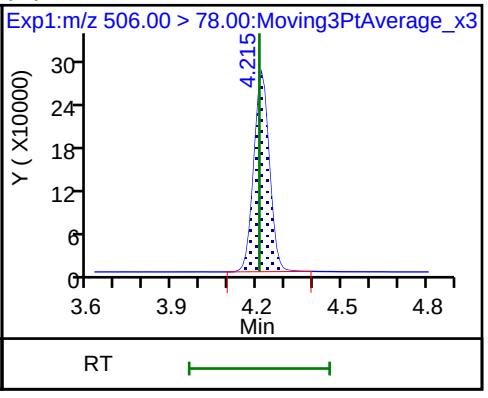
D 26 M2-8:2 FTS



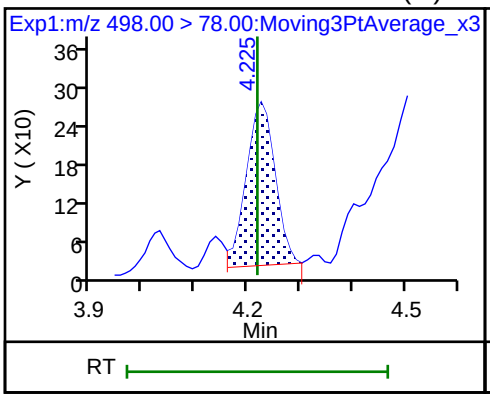
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



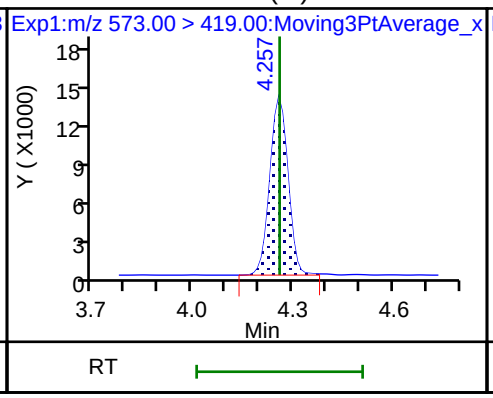
D 21 13C8 FOSA



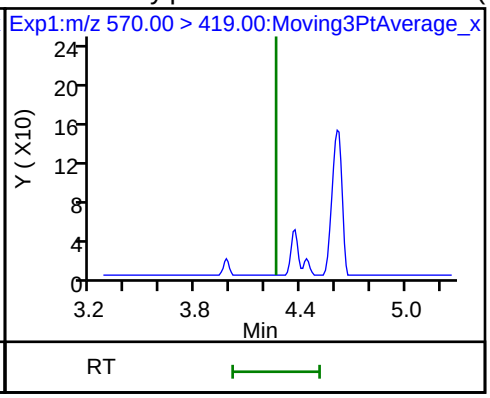
22 Perfluorooctanesulfonamide (M)



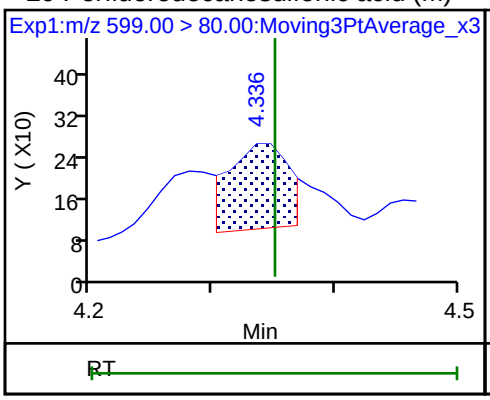
D 27 d3-NMeFOSAA (M)



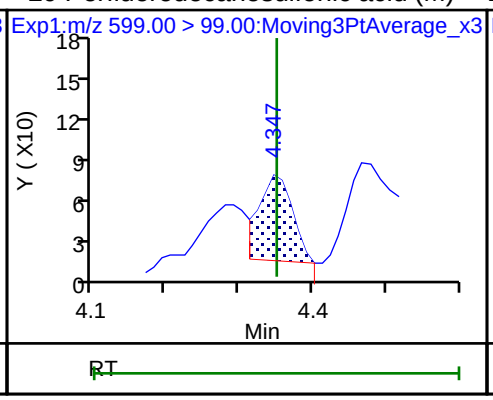
28 N-methylperfluorooctanesulfonami (ND)



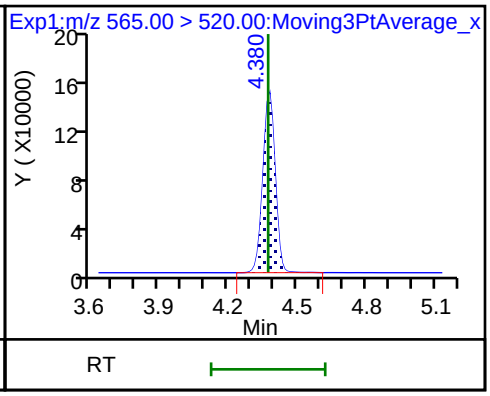
29 Perfluorodecanesulfonic acid (M)



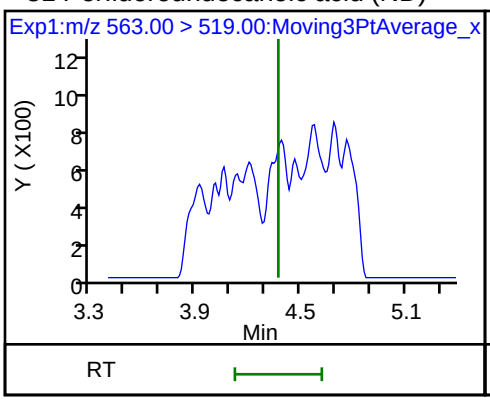
29 Perfluorodecanesulfonic acid (M)



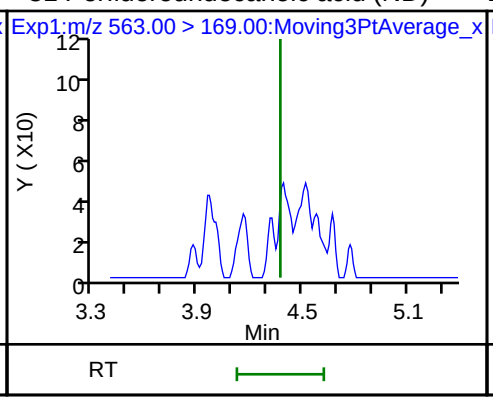
D 30 13C2 PFUnA



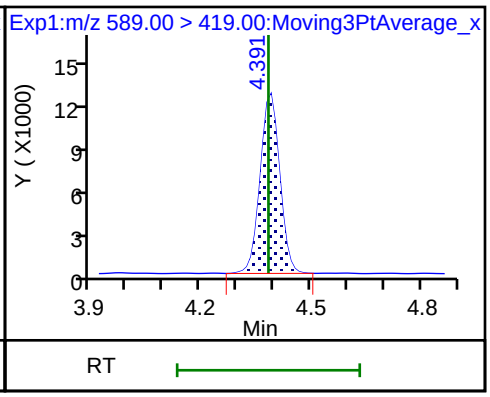
31 Perfluoroundecanoic acid (ND)



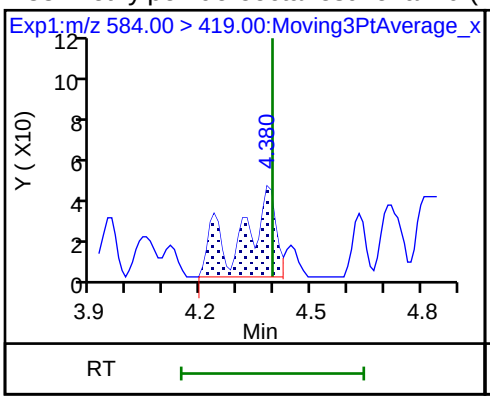
31 Perfluoroundecanoic acid (ND)



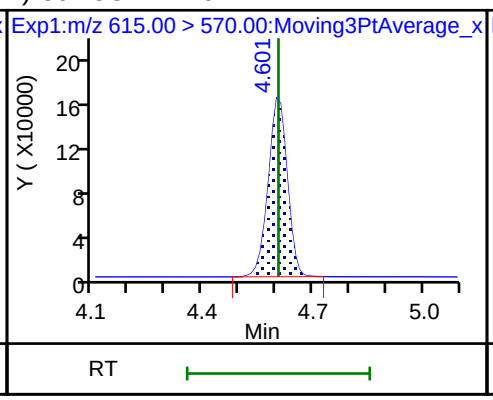
D 32 d5-NEtFOSAA



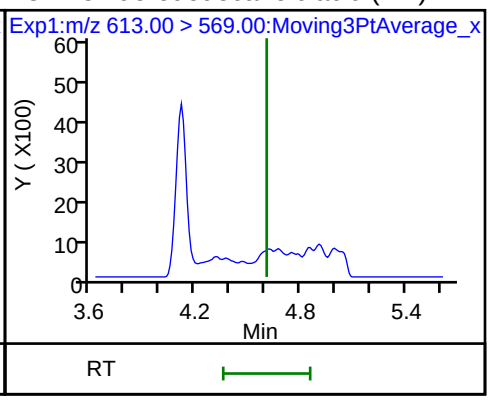
33 N-ethylperfluorooctanesulfonamid (ND)



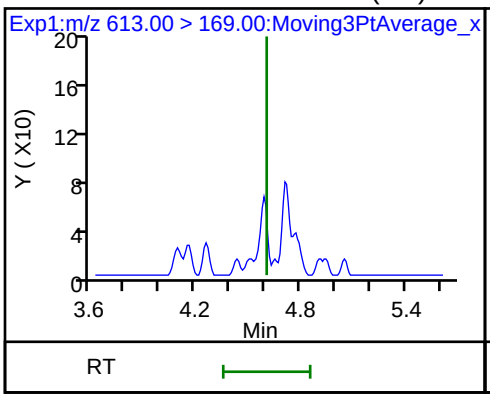
D 36 13C2 PFDoA



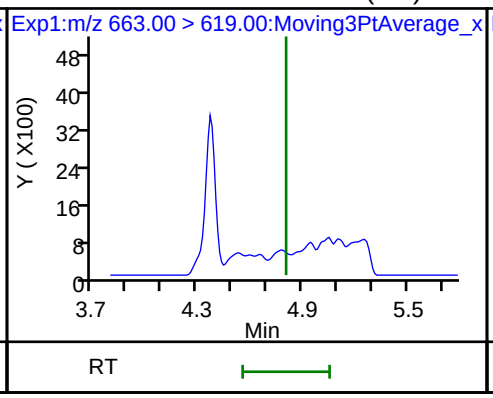
37 Perfluorododecanoic acid (ND)



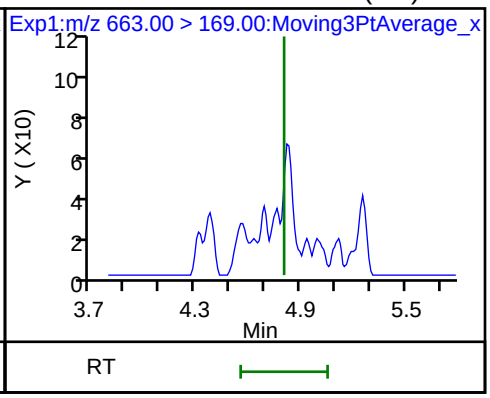
37 Perfluorododecanoic acid (ND)



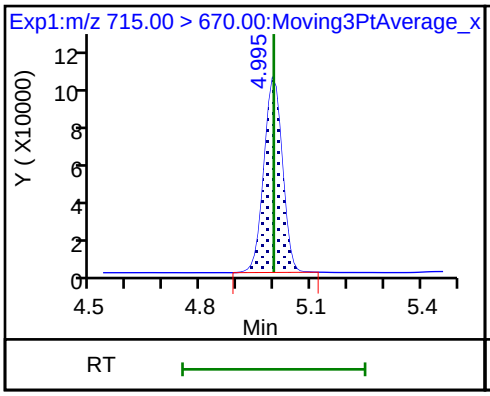
41 Perfluorotridecanoic acid (ND)



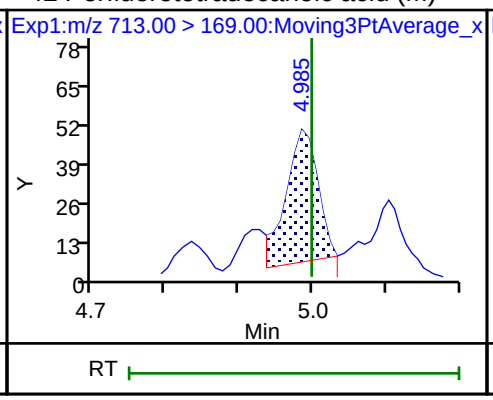
41 Perfluorotridecanoic acid (ND)



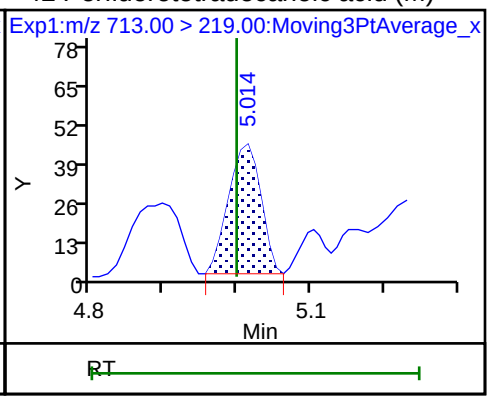
D 43 13C2 PFTeDA



42 Perfluorotetradecanoic acid (M)



42 Perfluorotetradecanoic acid (M)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

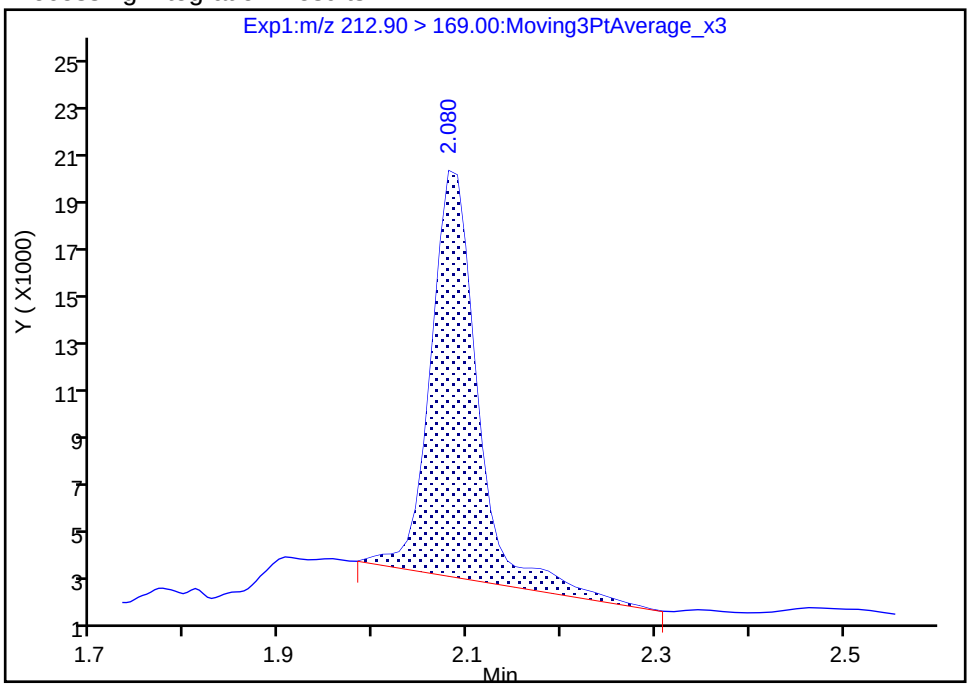
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A09.d				
Injection Date:	26-Feb-2021 13:52:39	Instrument ID:	LC812		
Lims ID:	480-181249-A-1-A	Lab Sample ID:	200-181249-1		
Client ID:	SB-12C (32-33)				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

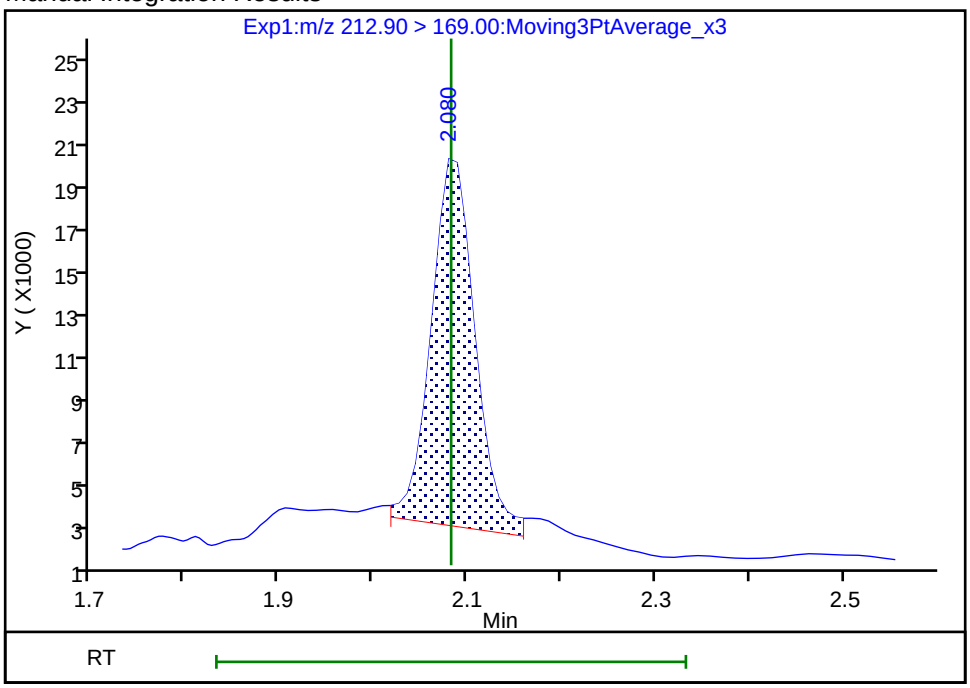
Processing Integration Results

RT: 2.08
Area: 58368
Amount: 0.141833
Amount Units: ng/ml



Manual Integration Results

RT: 2.08
Area: 54203
Amount: 0.131712
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:36:58

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

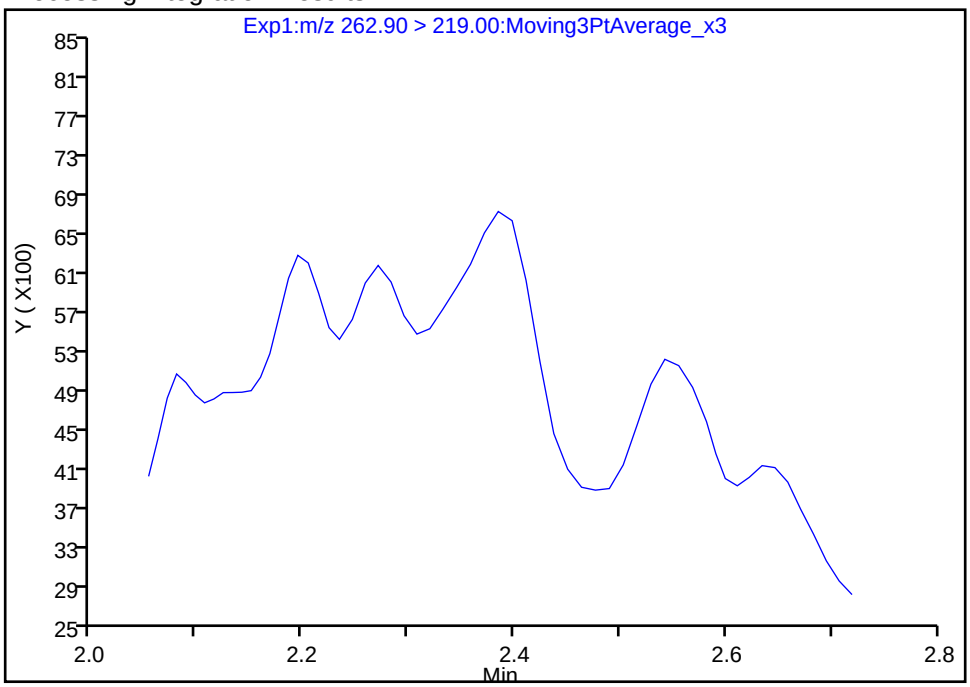
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A09.d				
Injection Date:	26-Feb-2021 13:52:39	Instrument ID:	LC812		
Lims ID:	480-181249-A-1-A	Lab Sample ID:	200-181249-1		
Client ID:	SB-12C (32-33)				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

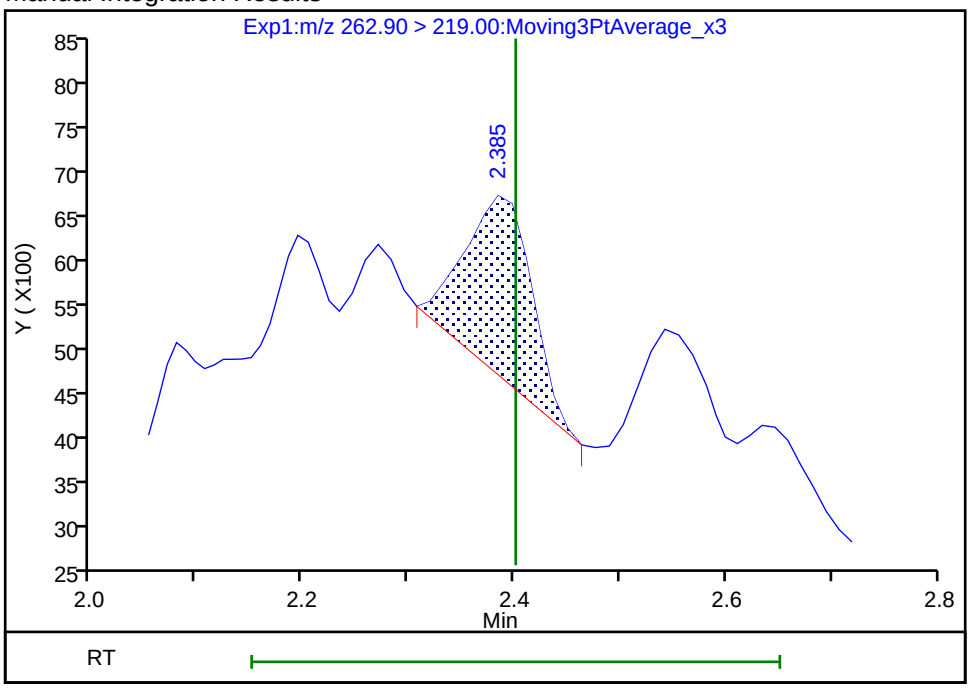
Not Detected
Expected RT: 2.40

Processing Integration Results



Manual Integration Results

RT: 2.38
Area: 8790
Amount: 0.011530
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:37:07
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

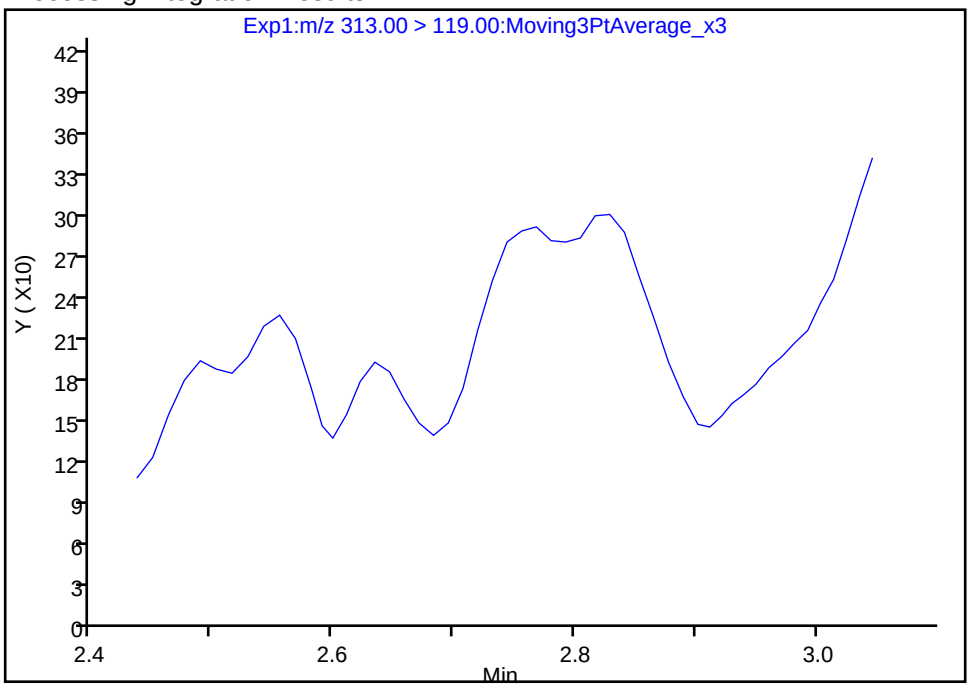
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A09.d				
Injection Date:	26-Feb-2021 13:52:39	Instrument ID:	LC812		
Lims ID:	480-181249-A-1-A	Lab Sample ID:	200-181249-1		
Client ID:	SB-12C (32-33)				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

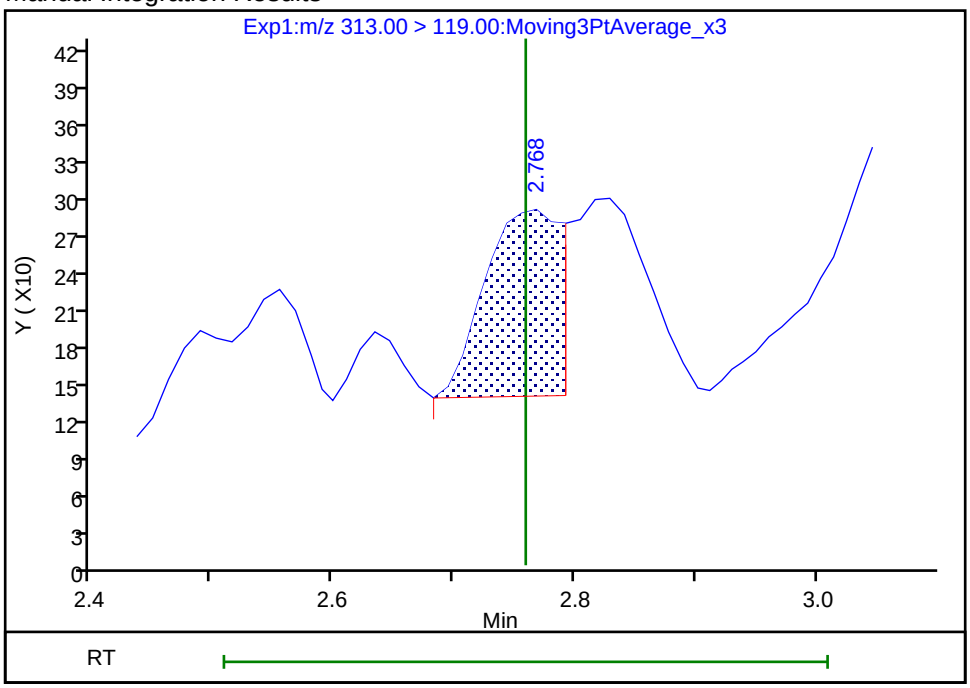
Not Detected
Expected RT: 2.76

Processing Integration Results



Manual Integration Results

RT: 2.77
Area: 636
Amount: 0.005470
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:37:33
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

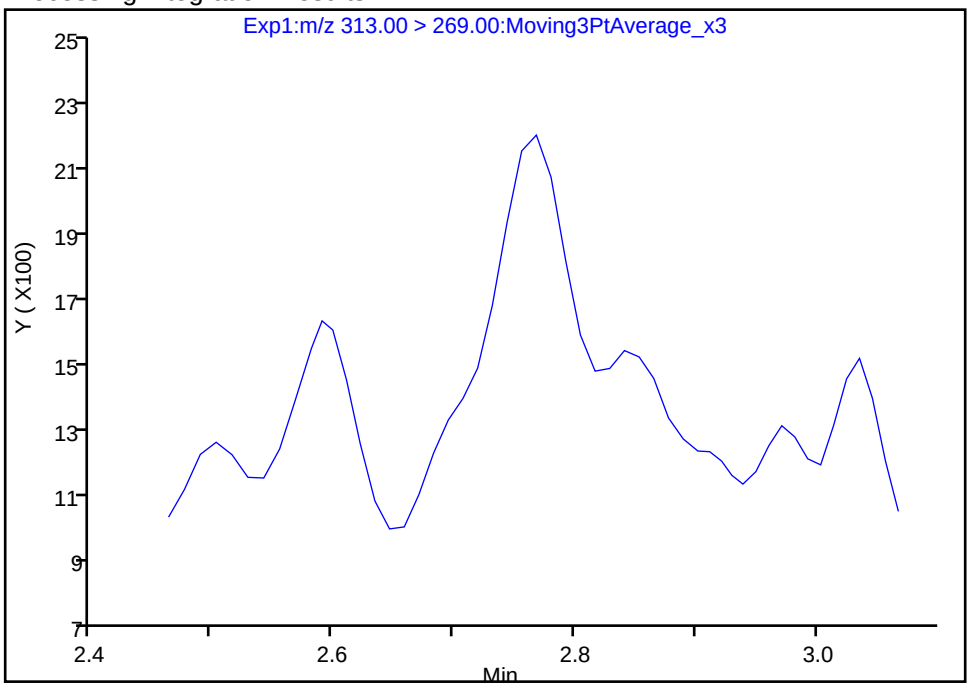
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A09.d				
Injection Date:	26-Feb-2021 13:52:39	Instrument ID:	LC812		
Lims ID:	480-181249-A-1-A	Lab Sample ID:	200-181249-1		
Client ID:	SB-12C (32-33)				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

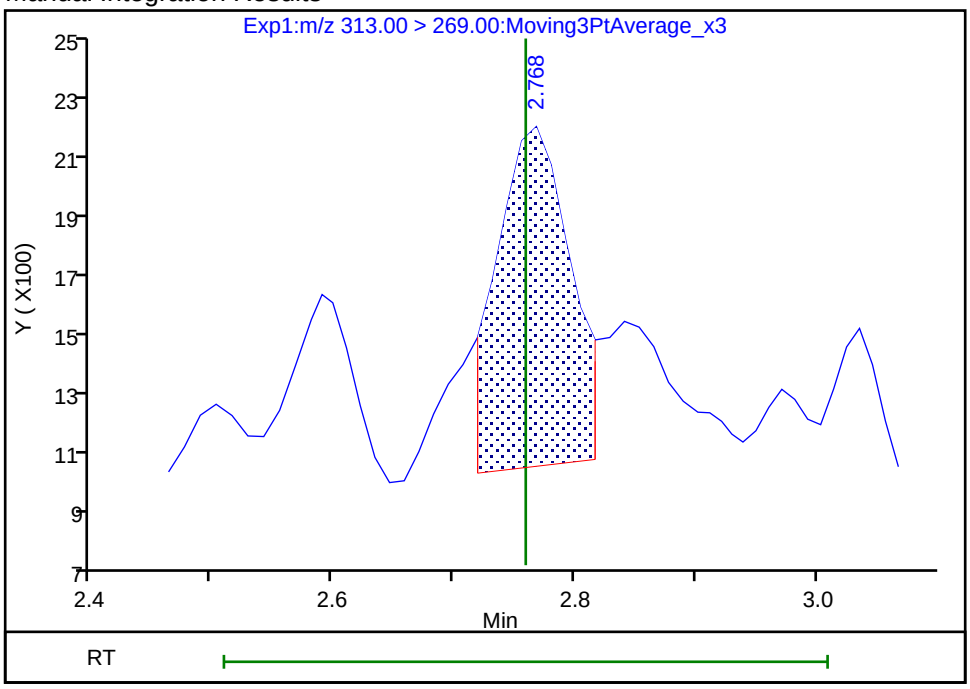
Not Detected
Expected RT: 2.76

Processing Integration Results



Manual Integration Results

RT: 2.77
Area: 4609
Amount: 0.005470
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:37:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

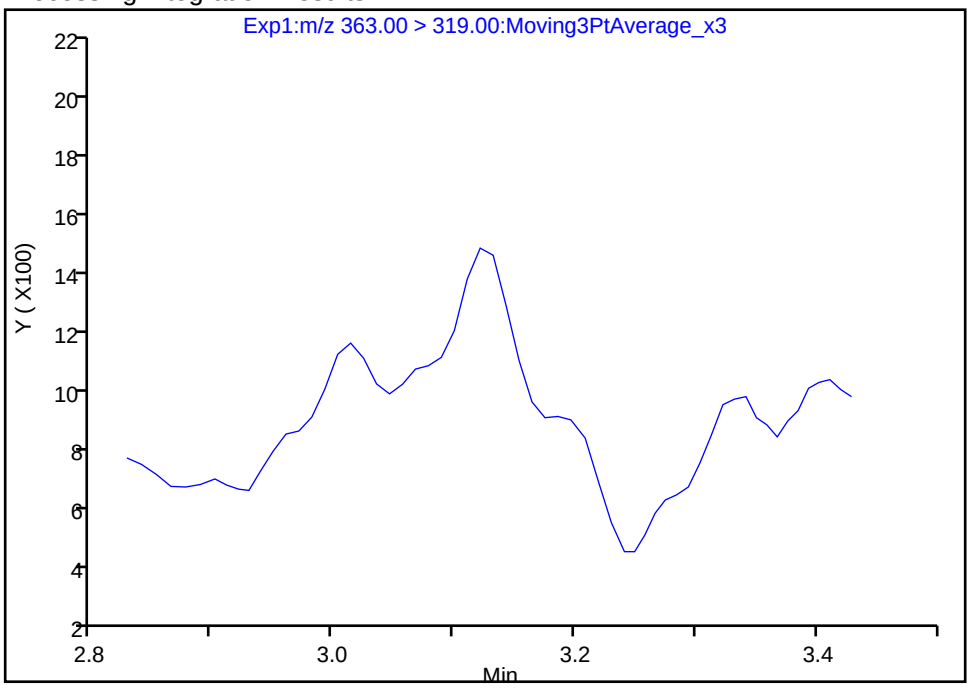
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A09.d				
Injection Date:	26-Feb-2021 13:52:39	Instrument ID:	LC812		
Lims ID:	480-181249-A-1-A	Lab Sample ID:	200-181249-1		
Client ID:	SB-12C (32-33)				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

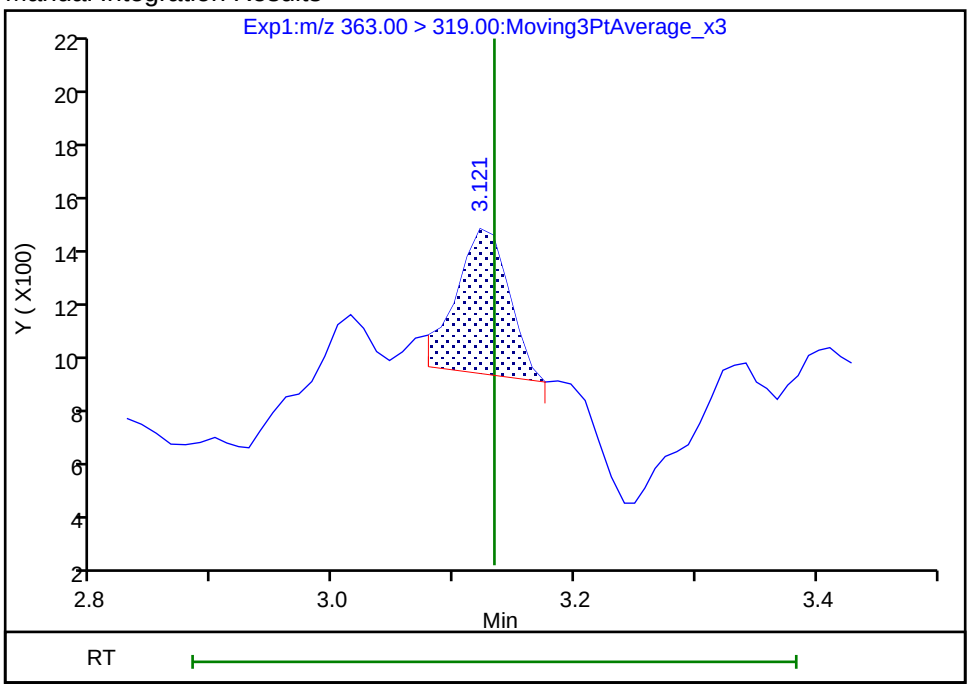
Not Detected
Expected RT: 3.13

Processing Integration Results



Manual Integration Results

RT: 3.12
Area: 1565
Amount: 0.002008
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:38:57
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

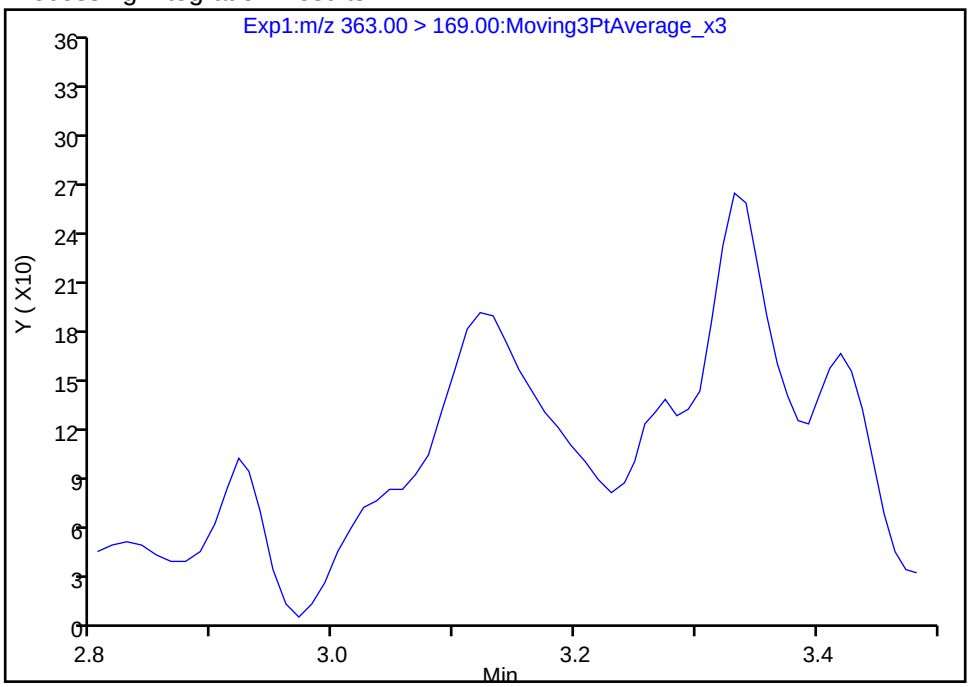
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A09.d				
Injection Date:	26-Feb-2021 13:52:39	Instrument ID:	LC812		
Lims ID:	480-181249-A-1-A	Lab Sample ID:	200-181249-1		
Client ID:	SB-12C (32-33)				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

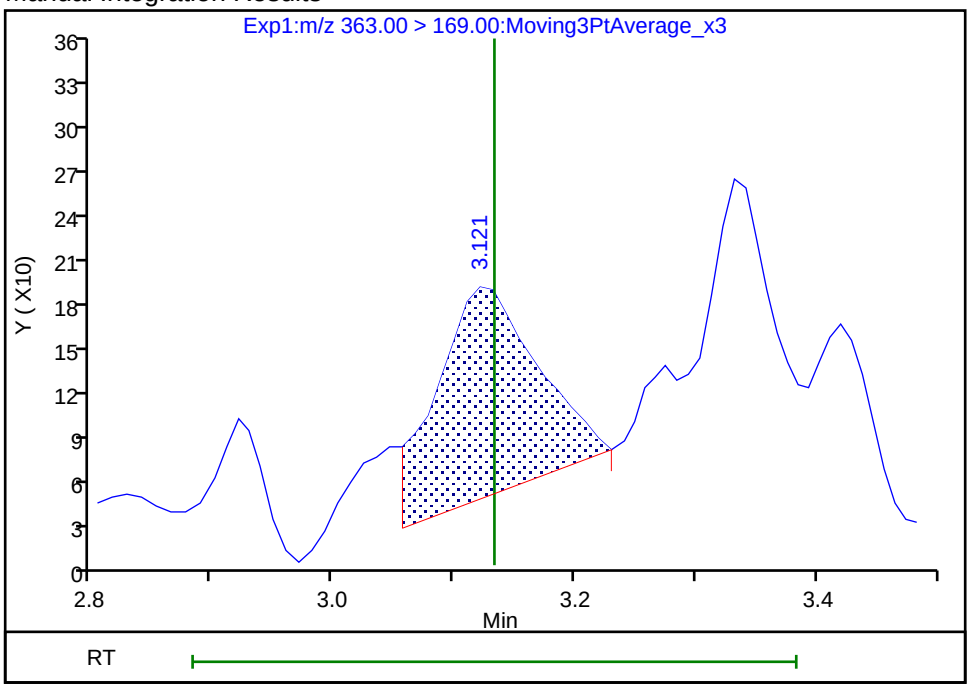
Not Detected
Expected RT: 3.13

Processing Integration Results



Manual Integration Results

RT: 3.12
Area: 823
Amount: 0.002008
Amount Units: ng/ml



Reviewer: deannd, 01-Mar-2021 10:32:40
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

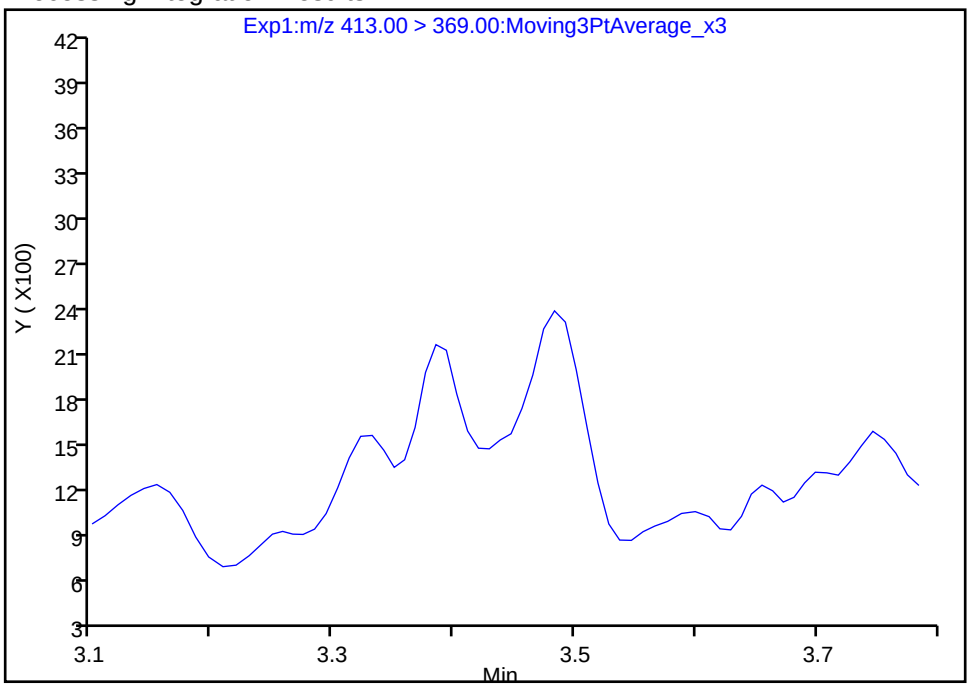
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A09.d				
Injection Date:	26-Feb-2021 13:52:39	Instrument ID:	LC812		
Lims ID:	480-181249-A-1-A	Lab Sample ID:	200-181249-1		
Client ID:	SB-12C (32-33)				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

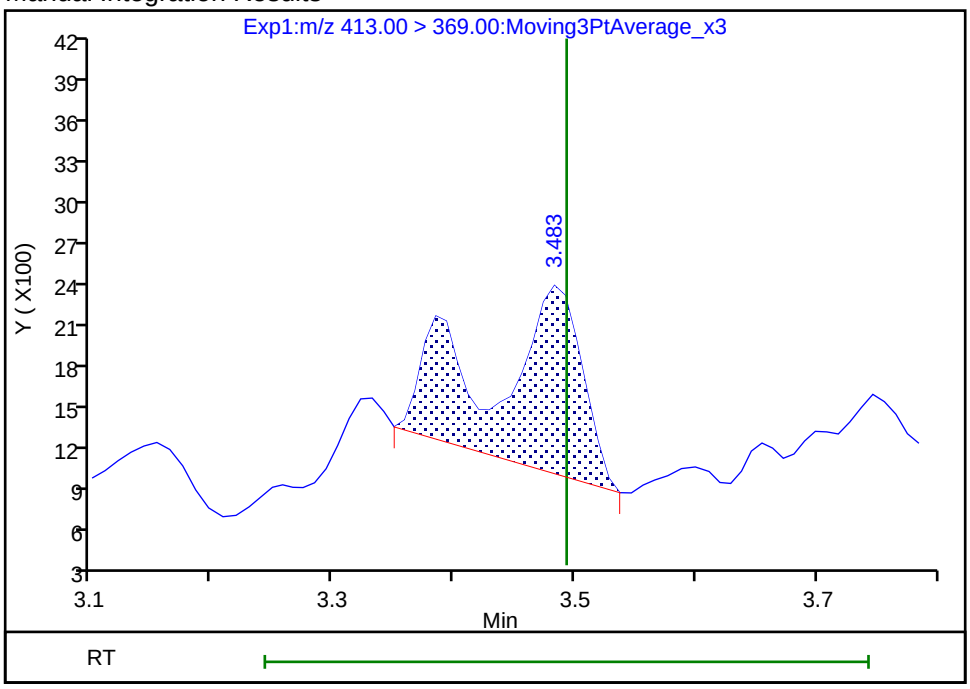
Not Detected
Expected RT: 3.49

Processing Integration Results



Manual Integration Results

RT: 3.48
Area: 6915
Amount: 0.008796
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:39:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

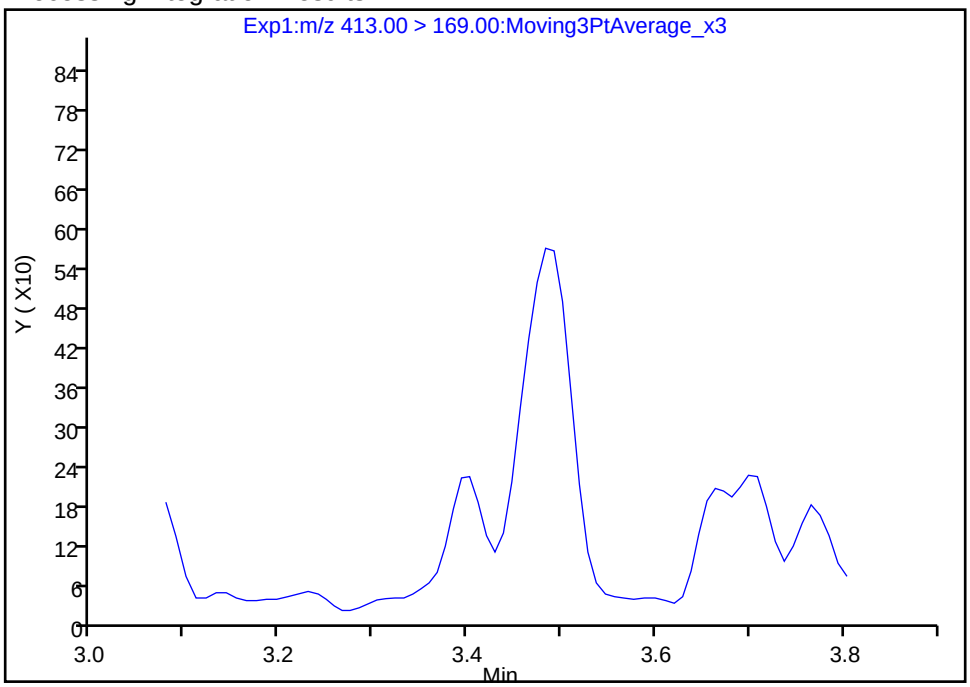
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A09.d				
Injection Date:	26-Feb-2021 13:52:39	Instrument ID:	LC812		
Lims ID:	480-181249-A-1-A	Lab Sample ID:	200-181249-1		
Client ID:	SB-12C (32-33)				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

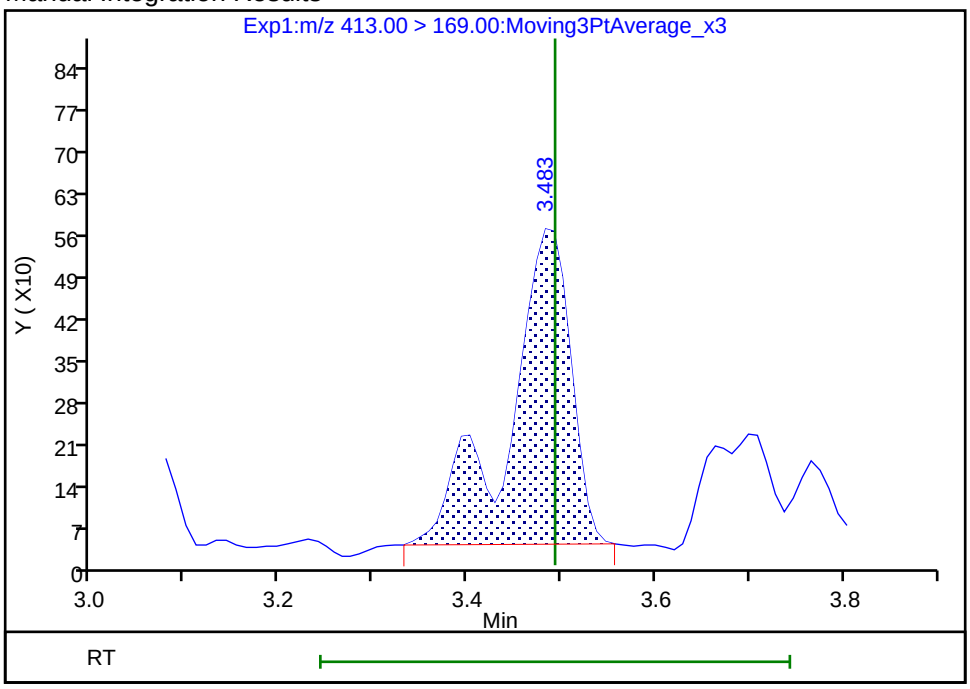
Not Detected
Expected RT: 3.49

Processing Integration Results



Manual Integration Results

RT: 3.48
Area: 2413
Amount: 0.008796
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:39:48
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

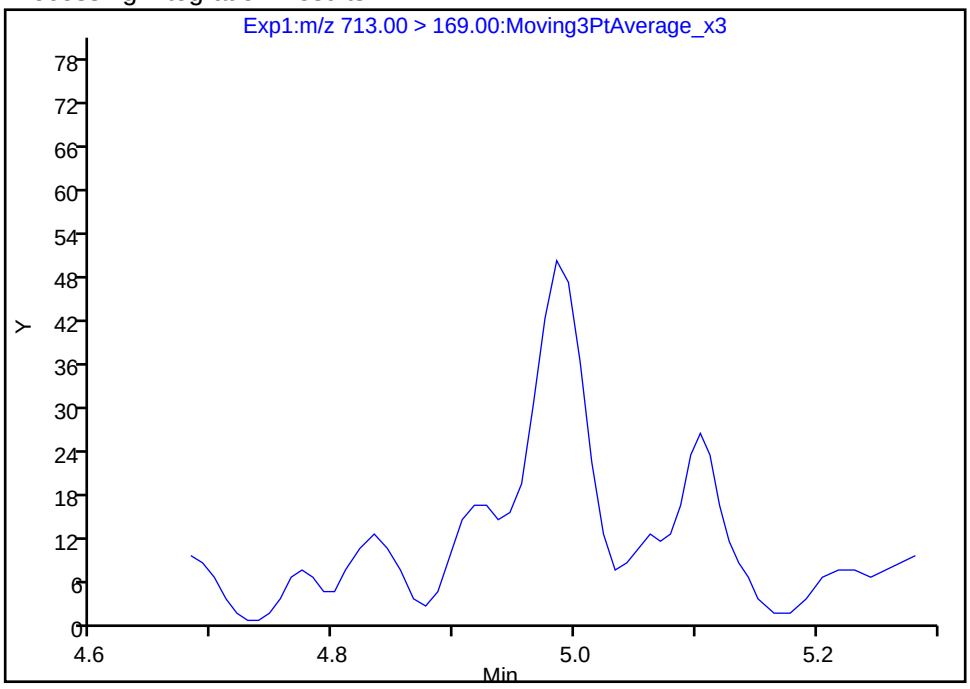
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A09.d				
Injection Date:	26-Feb-2021 13:52:39	Instrument ID:	LC812		
Lims ID:	480-181249-A-1-A	Lab Sample ID:	200-181249-1		
Client ID:	SB-12C (32-33)				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

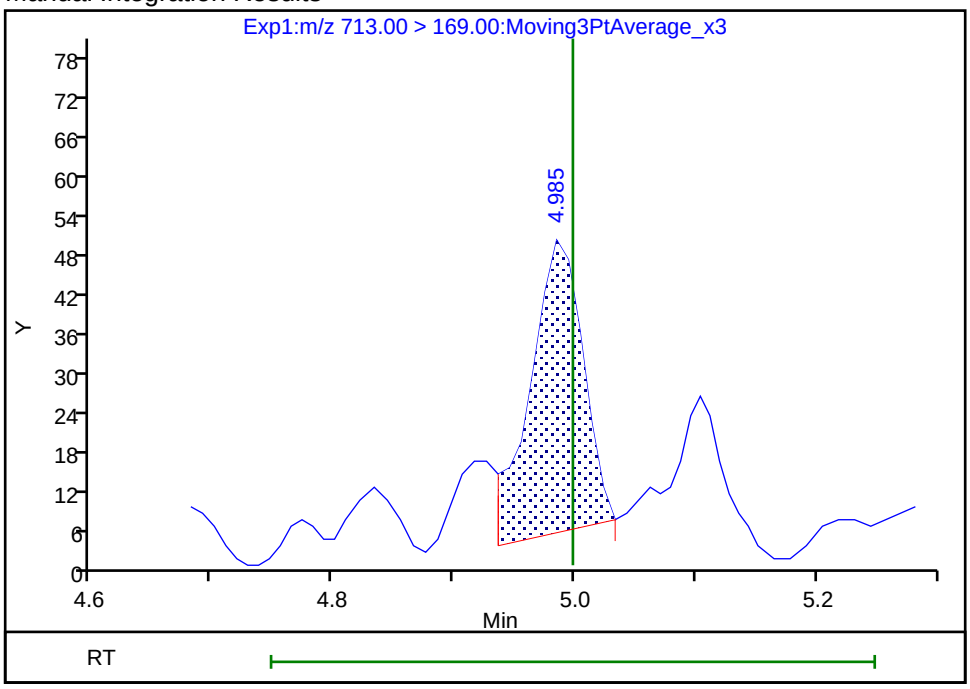
Not Detected
Expected RT: 5.00

Processing Integration Results



Manual Integration Results

RT: 4.98
Area: 135
Amount: 0.002560
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:42:24
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

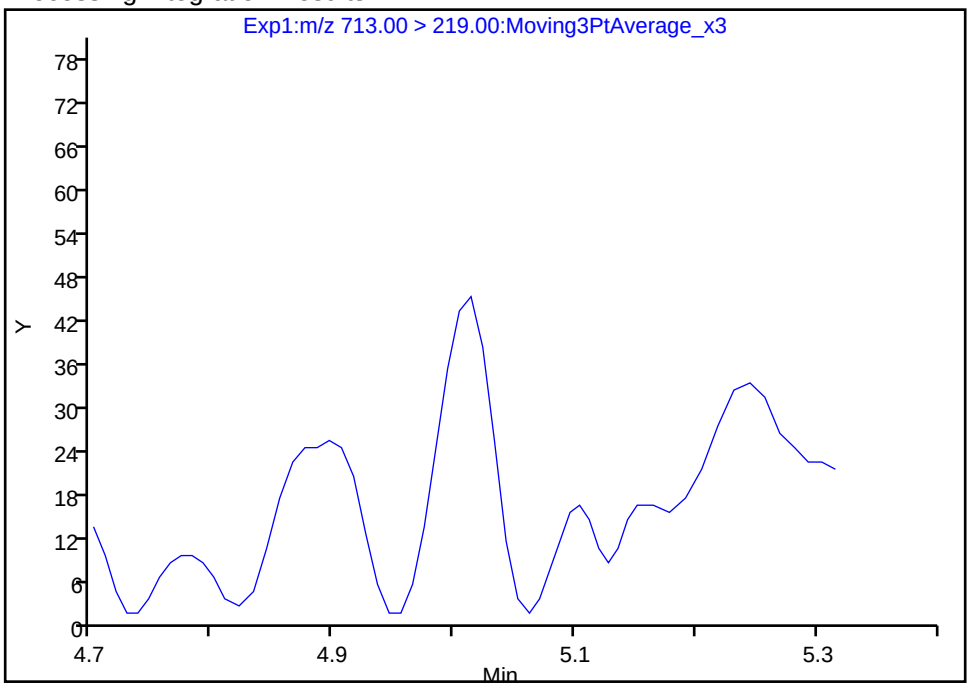
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A09.d				
Injection Date:	26-Feb-2021 13:52:39	Instrument ID:	LC812		
Lims ID:	480-181249-A-1-A	Lab Sample ID:	200-181249-1		
Client ID:	SB-12C (32-33)				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

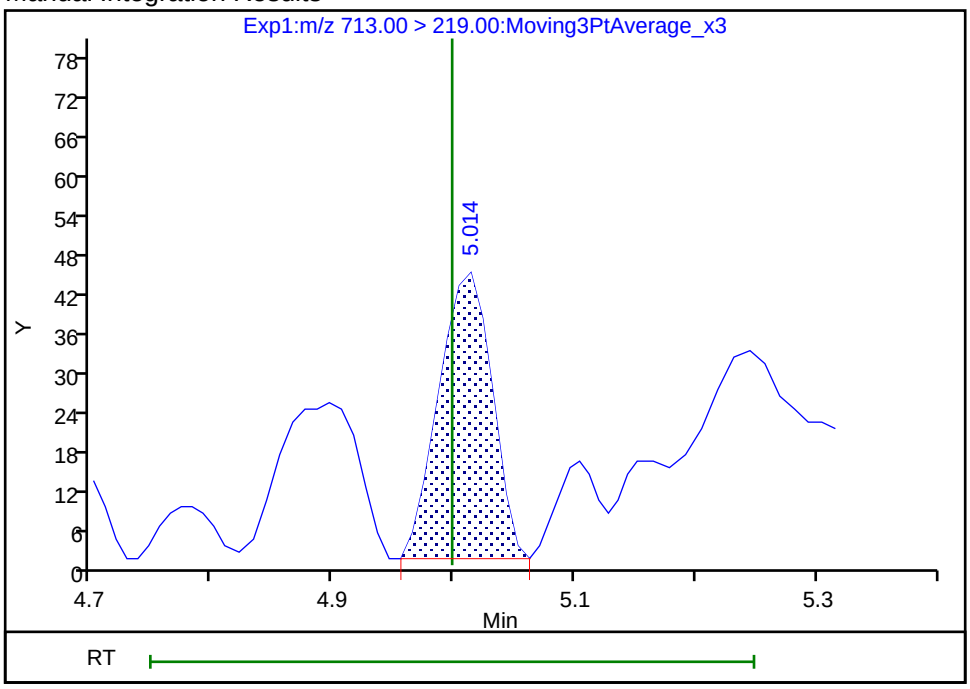
Not Detected
Expected RT: 5.00

Processing Integration Results



Manual Integration Results

RT: 5.01
Area: 134
Amount: 0.002560
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:42:27
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

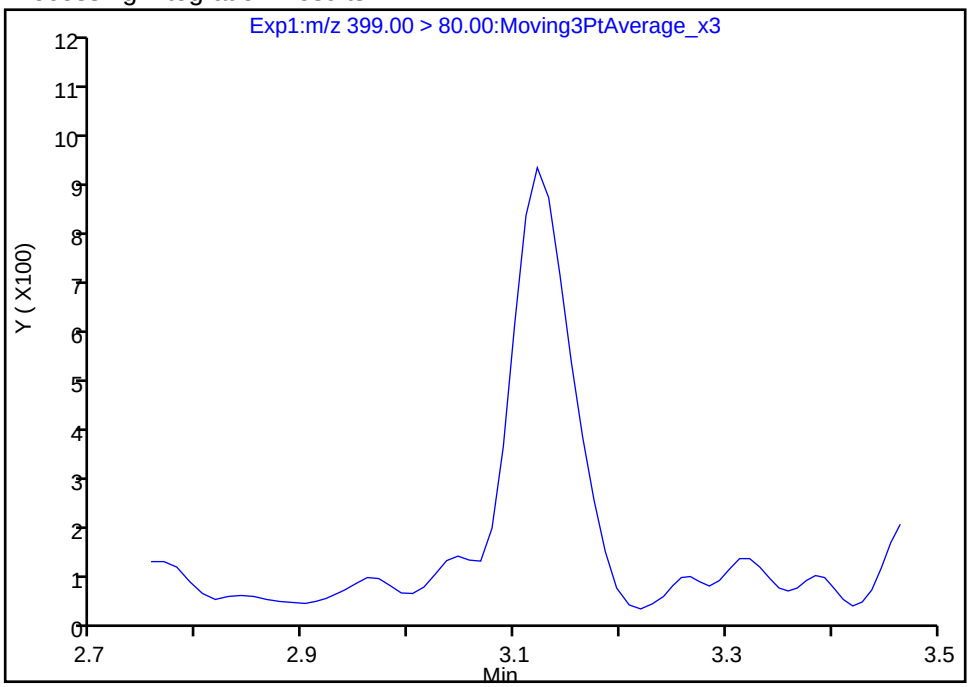
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A09.d				
Injection Date:	26-Feb-2021 13:52:39	Instrument ID:	LC812		
Lims ID:	480-181249-A-1-A	Lab Sample ID:	200-181249-1		
Client ID:	SB-12C (32-33)				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

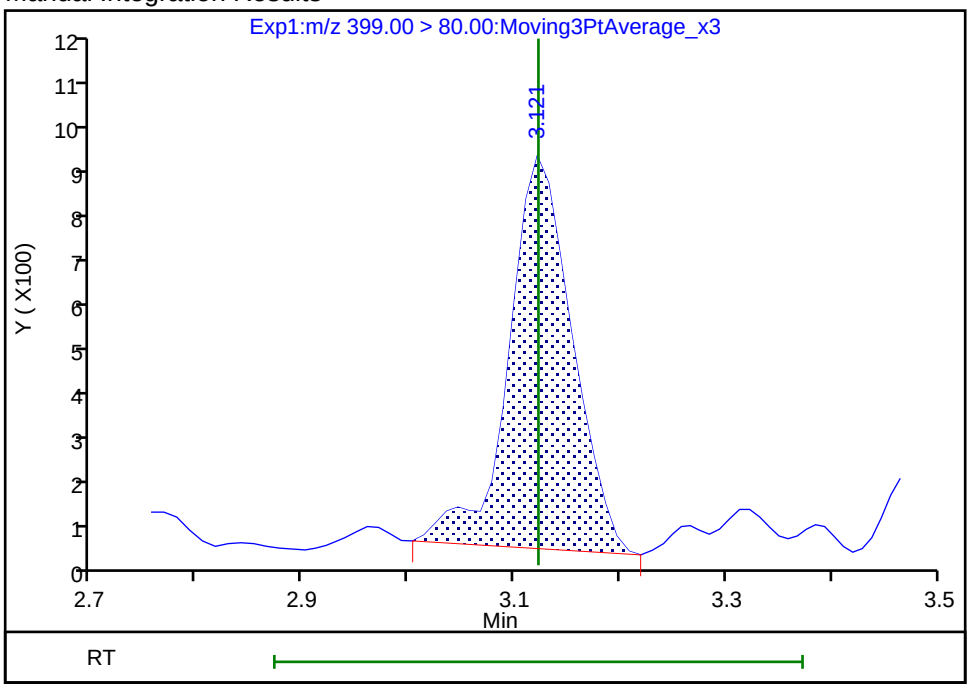
Not Detected
Expected RT: 3.12

Processing Integration Results



Manual Integration Results

RT: 3.12
Area: 3651
Amount: 0.004583
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:38:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

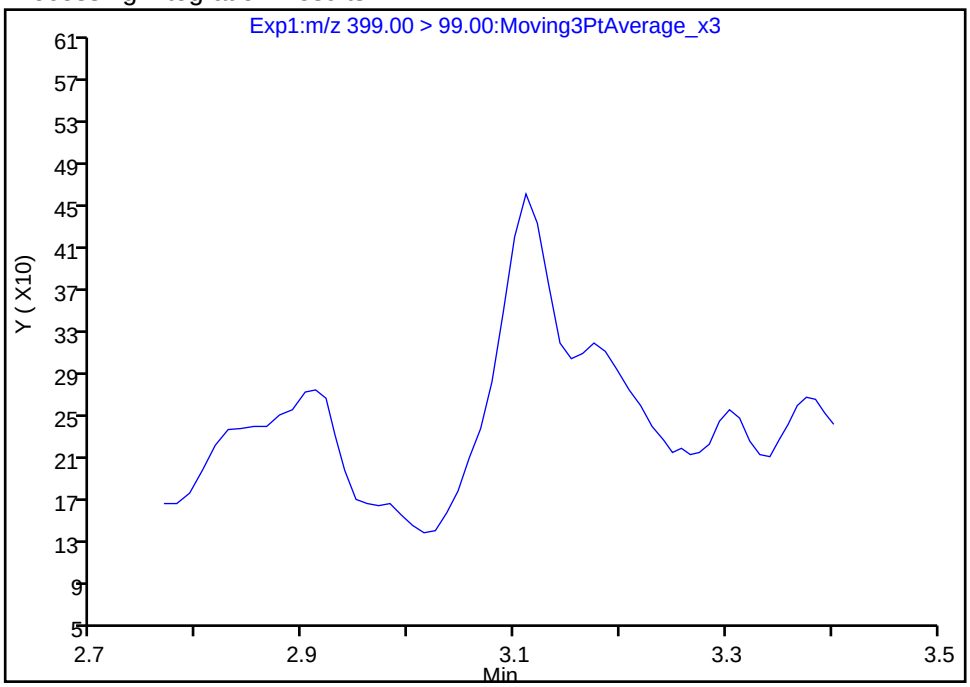
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A09.d				
Injection Date:	26-Feb-2021 13:52:39	Instrument ID:	LC812		
Lims ID:	480-181249-A-1-A	Lab Sample ID:	200-181249-1		
Client ID:	SB-12C (32-33)				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

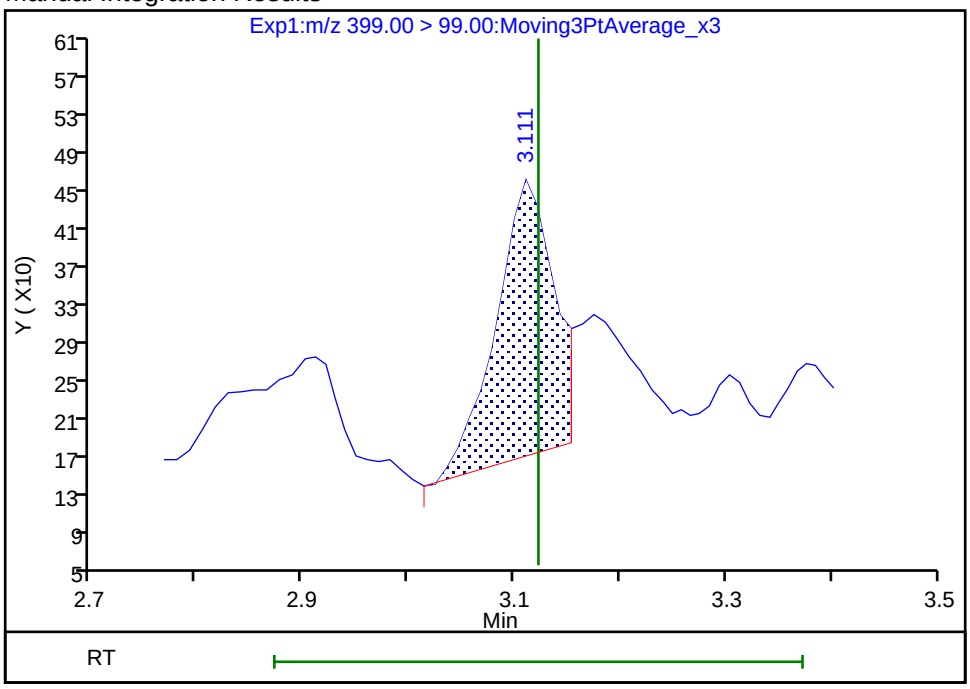
Not Detected
Expected RT: 3.12

Processing Integration Results



Manual Integration Results

RT: 3.11
Area: 1094
Amount: 0.004583
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:38:32
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

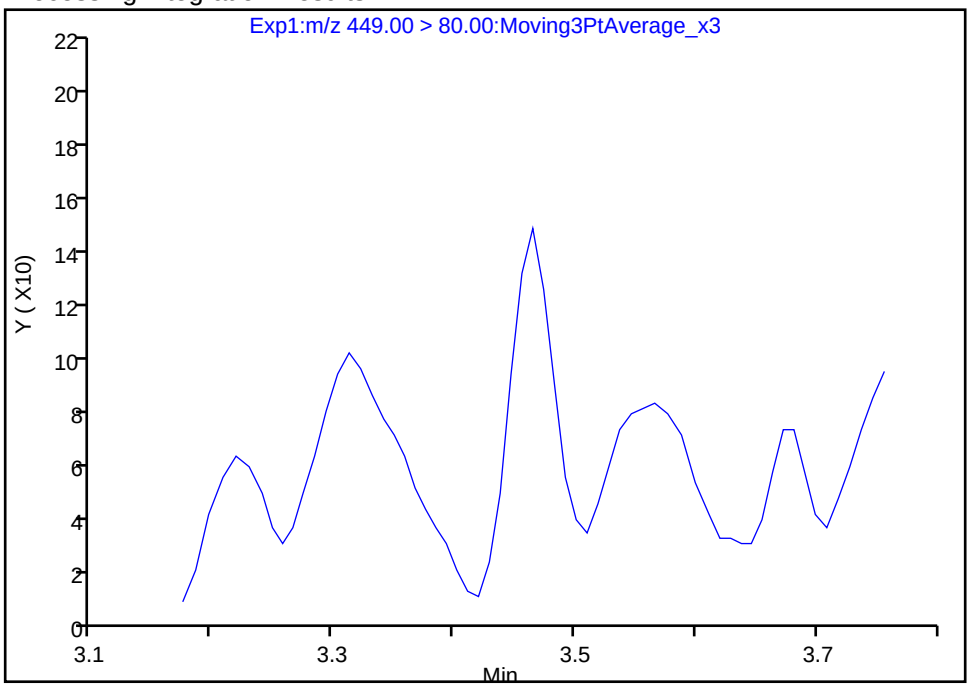
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A09.d				
Injection Date:	26-Feb-2021 13:52:39	Instrument ID:	LC812		
Lims ID:	480-181249-A-1-A	Lab Sample ID:	200-181249-1		
Client ID:	SB-12C (32-33)				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

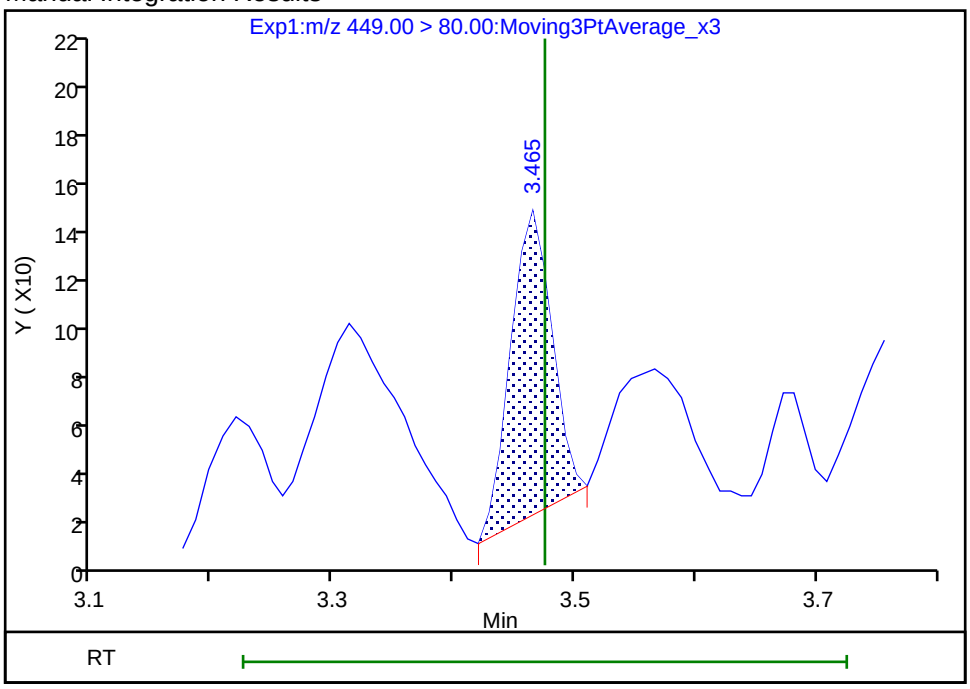
Not Detected
Expected RT: 3.48

Processing Integration Results



Manual Integration Results

RT: 3.47
Area: 301
Amount: 0.000468
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:39:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

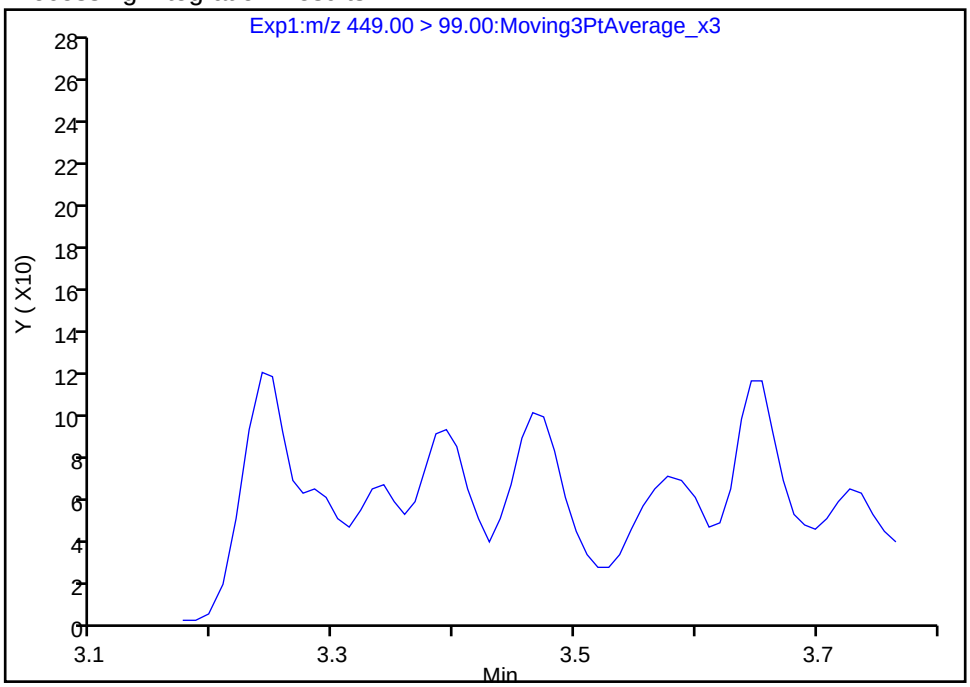
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A09.d				
Injection Date:	26-Feb-2021 13:52:39	Instrument ID:	LC812		
Lims ID:	480-181249-A-1-A	Lab Sample ID:	200-181249-1		
Client ID:	SB-12C (32-33)				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

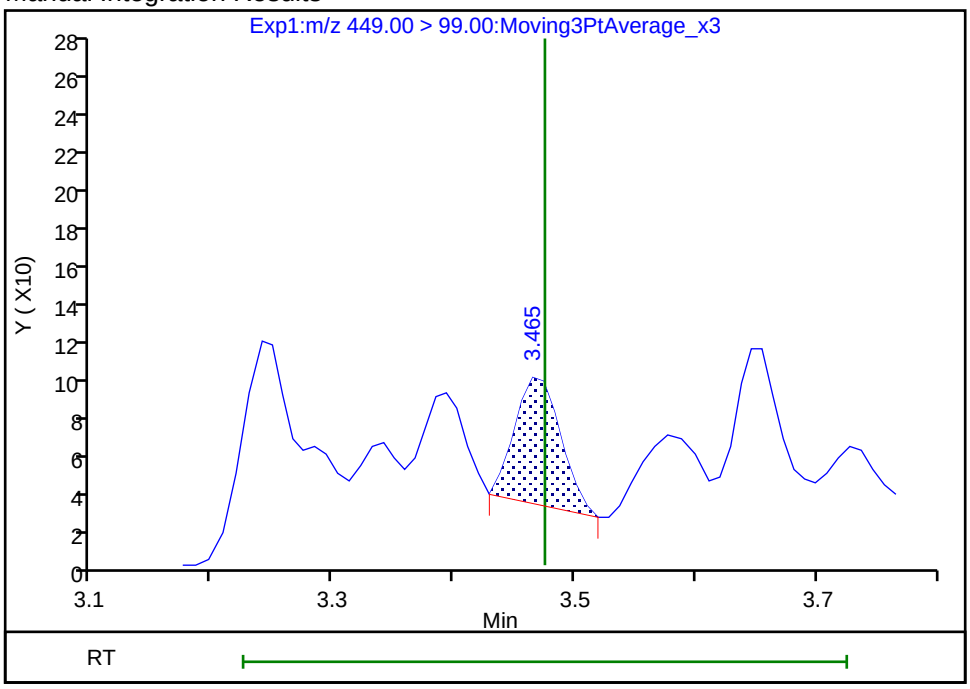
Not Detected
Expected RT: 3.48

Processing Integration Results



Manual Integration Results

RT: 3.47
Area: 174
Amount: 0.000468
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:39:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

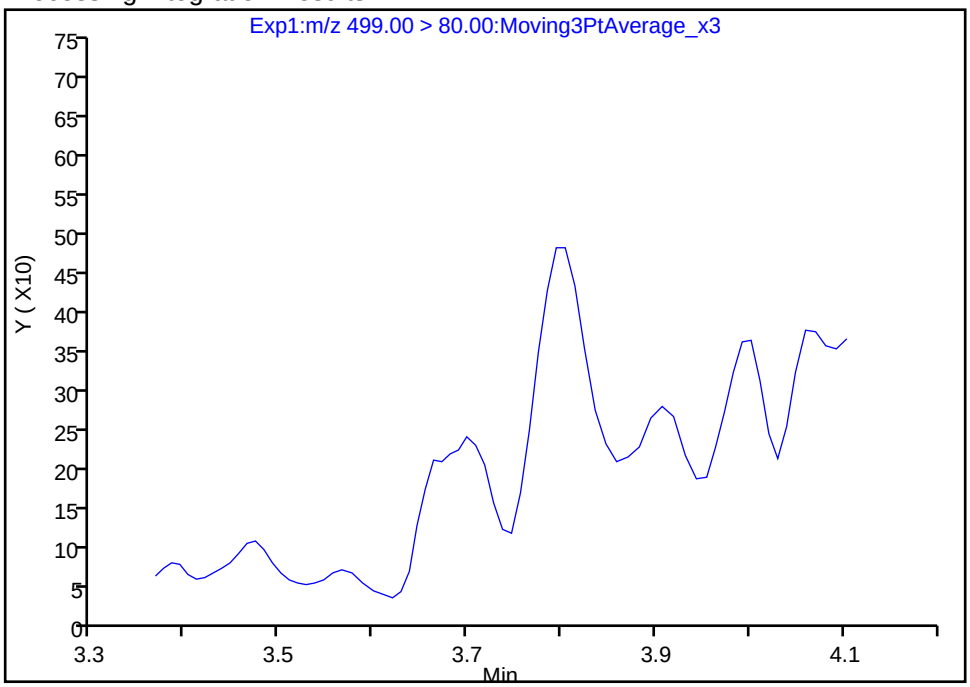
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A09.d				
Injection Date:	26-Feb-2021 13:52:39	Instrument ID:	LC812		
Lims ID:	480-181249-A-1-A	Lab Sample ID:	200-181249-1		
Client ID:	SB-12C (32-33)				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

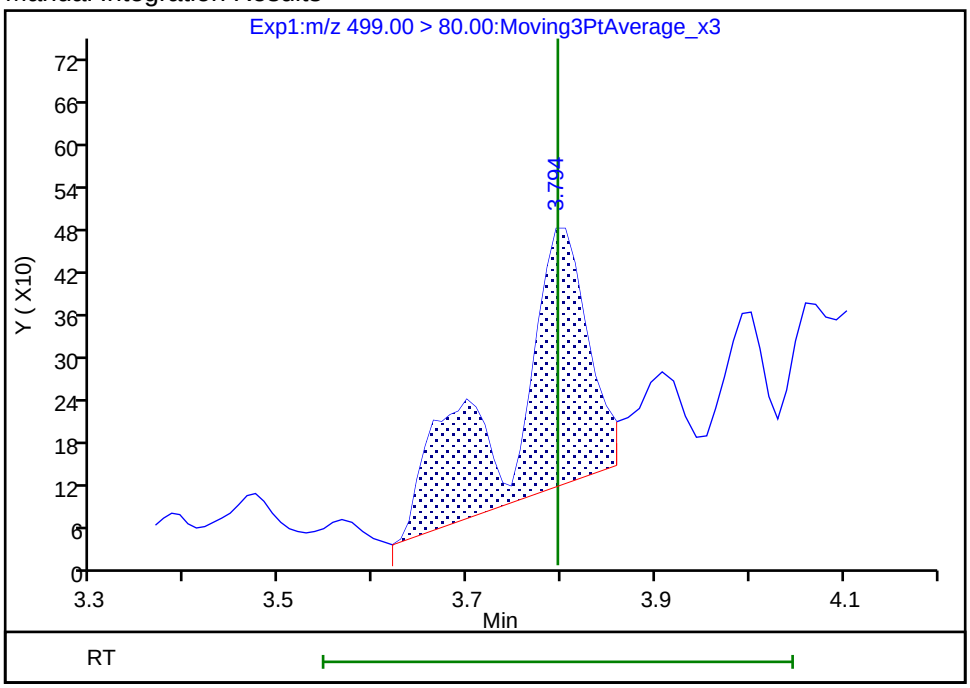
Not Detected
Expected RT: 3.80

Processing Integration Results



Manual Integration Results

RT: 3.79
Area: 2158
Amount: 0.003936
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:40:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

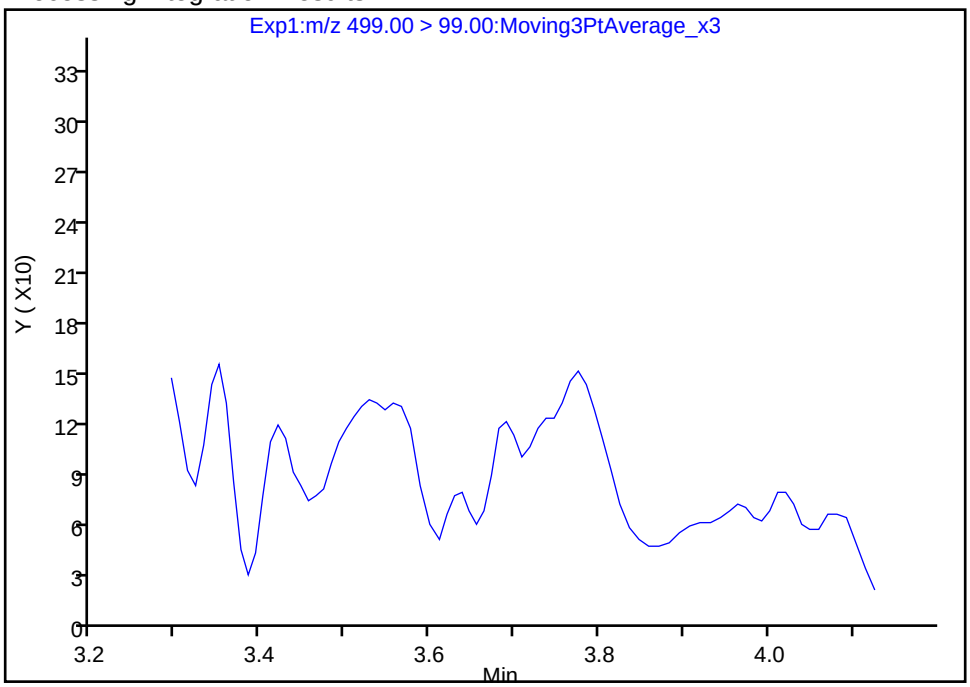
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A09.d				
Injection Date:	26-Feb-2021 13:52:39	Instrument ID:	LC812		
Lims ID:	480-181249-A-1-A	Lab Sample ID:	200-181249-1		
Client ID:	SB-12C (32-33)				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

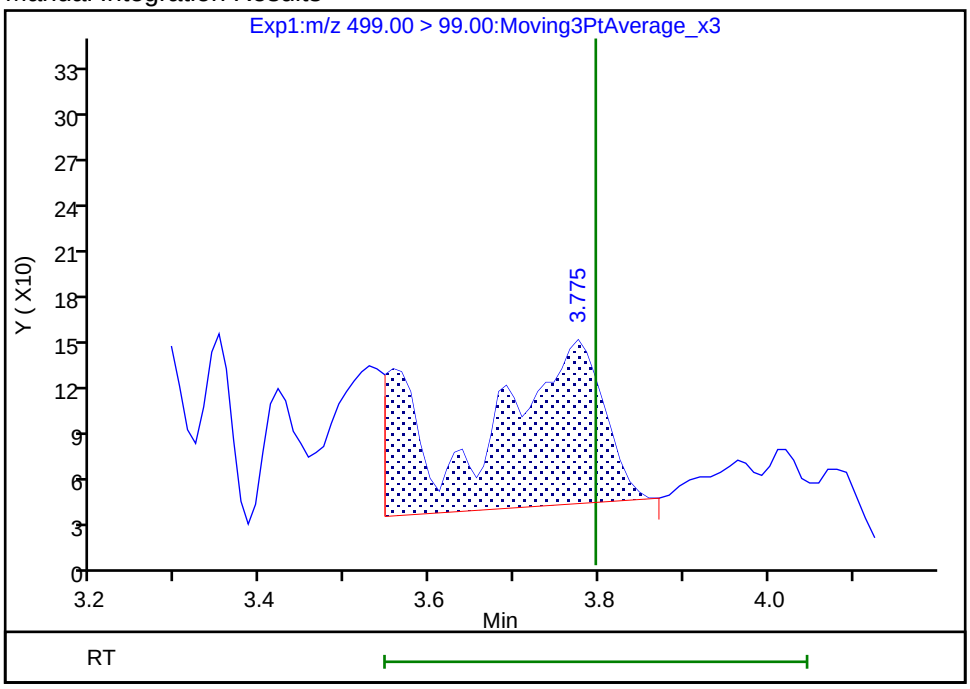
Processing Integration Results

Not Detected
Expected RT: 3.80



Manual Integration Results

RT: 3.78
Area: 1078
Amount: 0.003936
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:40:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

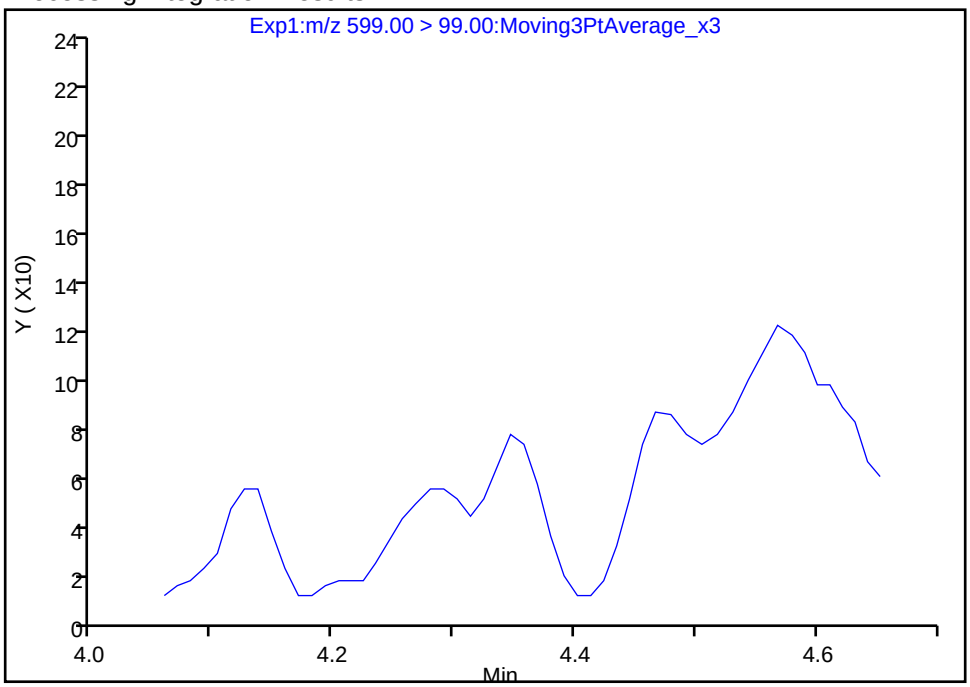
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A09.d				
Injection Date:	26-Feb-2021 13:52:39	Instrument ID:	LC812		
Lims ID:	480-181249-A-1-A	Lab Sample ID:	200-181249-1		
Client ID:	SB-12C (32-33)				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

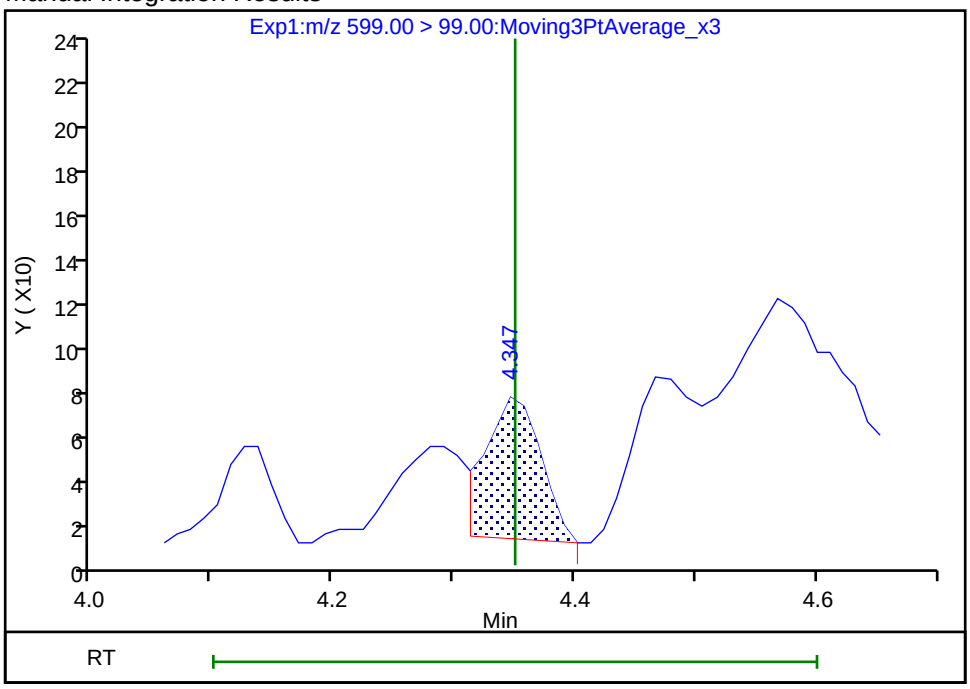
Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.35
Area: 197
Amount: 0.001689
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:41:48
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

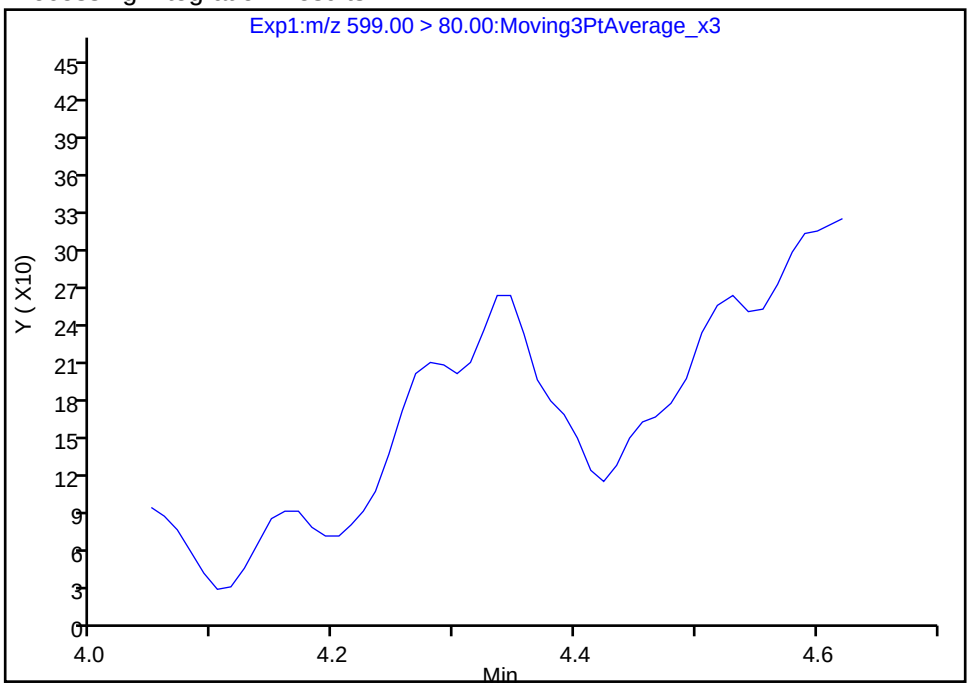
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A09.d				
Injection Date:	26-Feb-2021 13:52:39	Instrument ID:	LC812		
Lims ID:	480-181249-A-1-A	Lab Sample ID:	200-181249-1		
Client ID:	SB-12C (32-33)				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

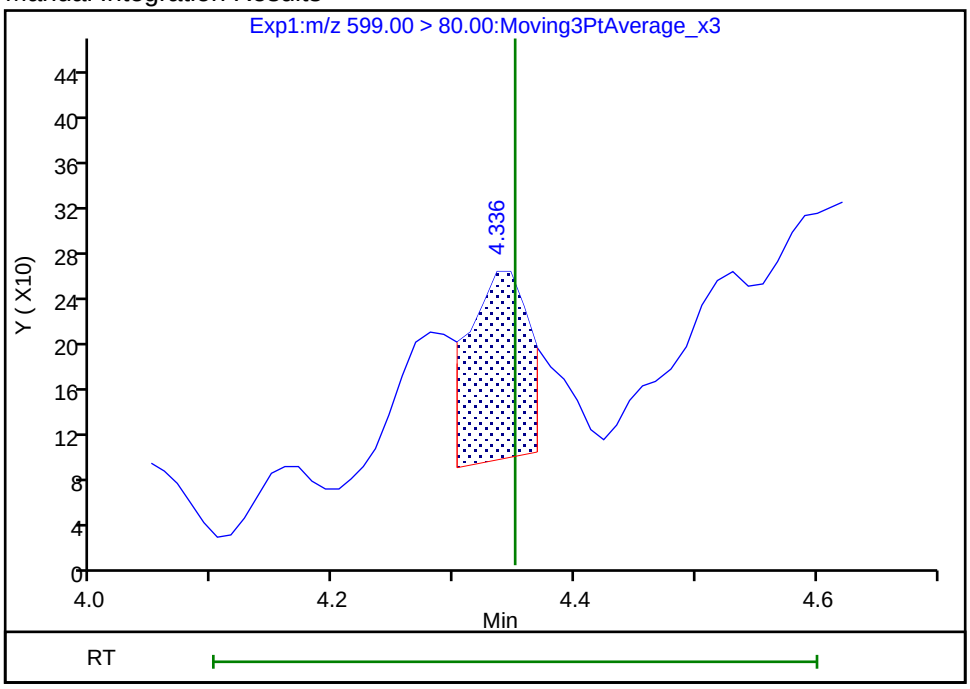
Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.34
Area: 551
Amount: 0.001689
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:41:52
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

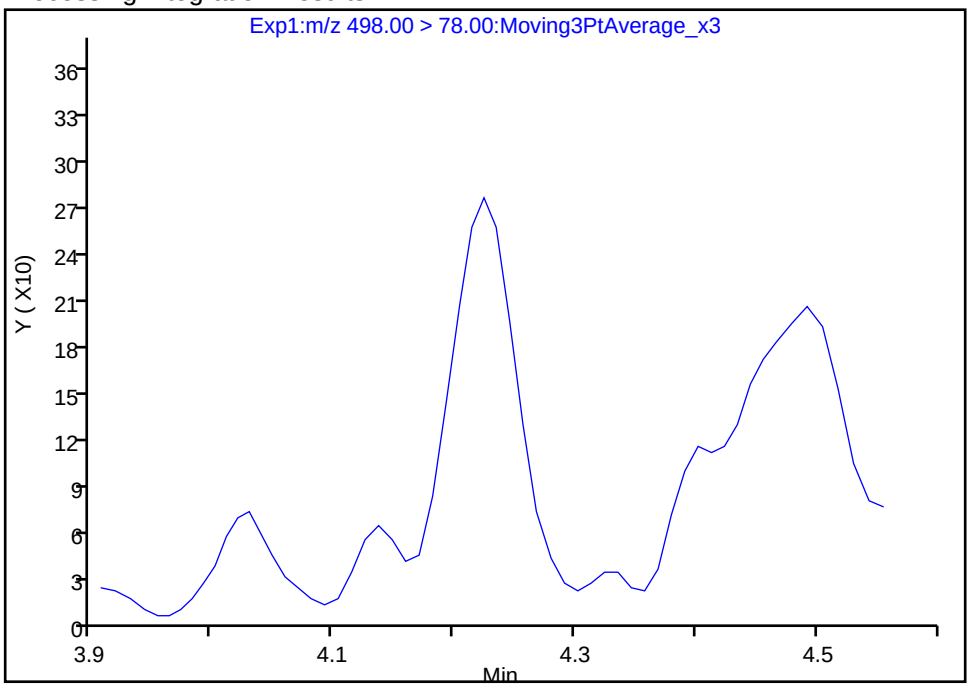
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A09.d				
Injection Date:	26-Feb-2021 13:52:39	Instrument ID:	LC812		
Lims ID:	480-181249-A-1-A	Lab Sample ID:	200-181249-1		
Client ID:	SB-12C (32-33)				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

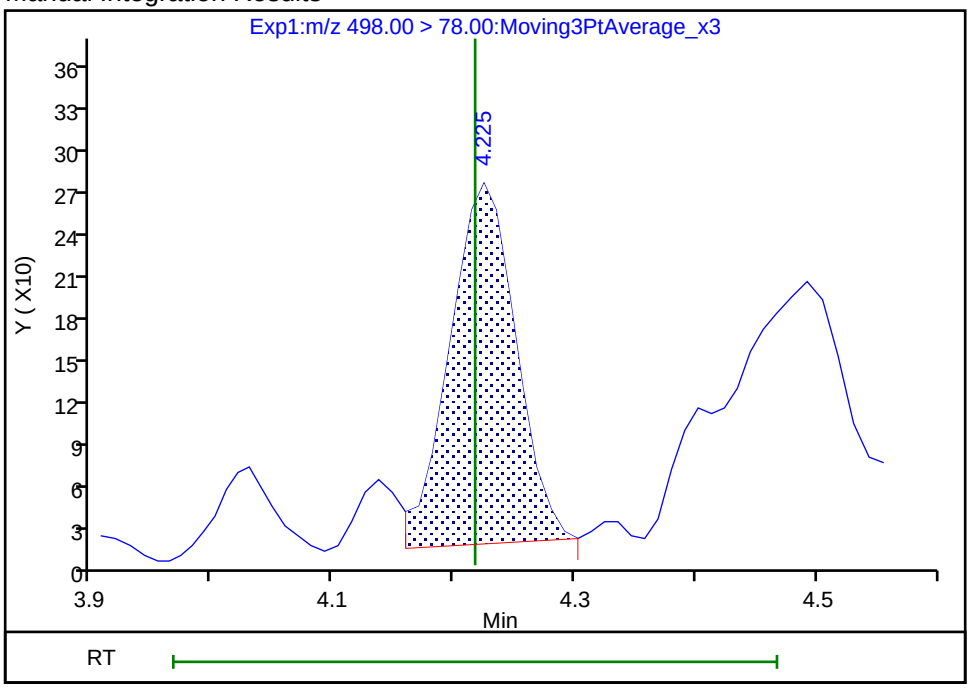
Not Detected
Expected RT: 4.22

Processing Integration Results



Manual Integration Results

RT: 4.22
Area: 975
Amount: 0.001150
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:41:20
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

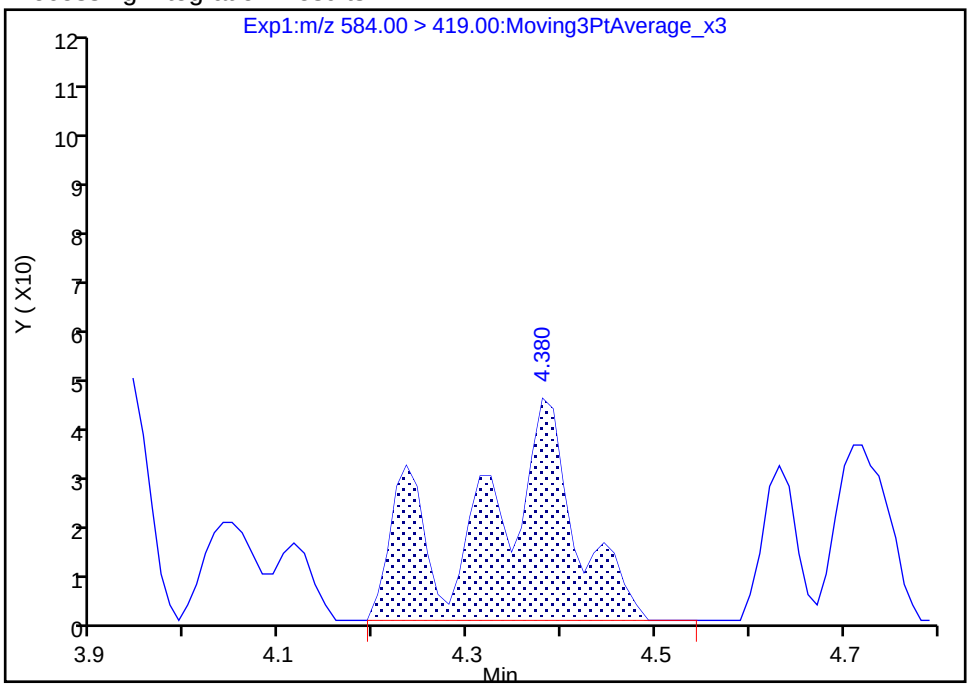
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A09.d				
Injection Date:	26-Feb-2021 13:52:39	Instrument ID:	LC812		
Lims ID:	480-181249-A-1-A	Lab Sample ID:	200-181249-1		
Client ID:	SB-12C (32-33)				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

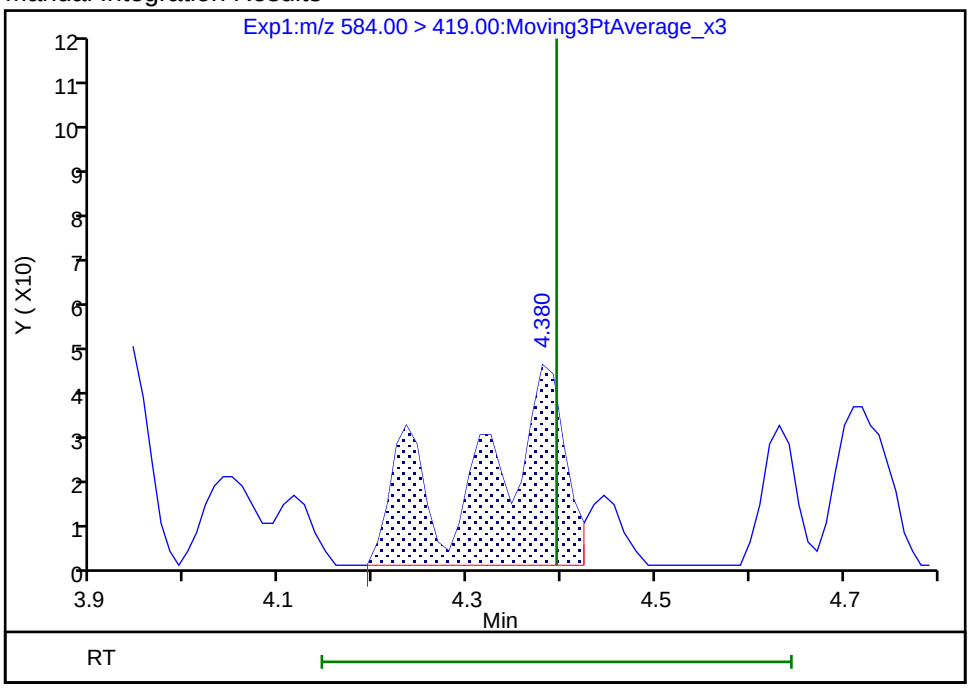
Processing Integration Results

RT: 4.38
Area: 310
Amount: 0.009261
Amount Units: ng/ml



Manual Integration Results

RT: 4.38
Area: 274
Amount: 0.008185
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:42:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

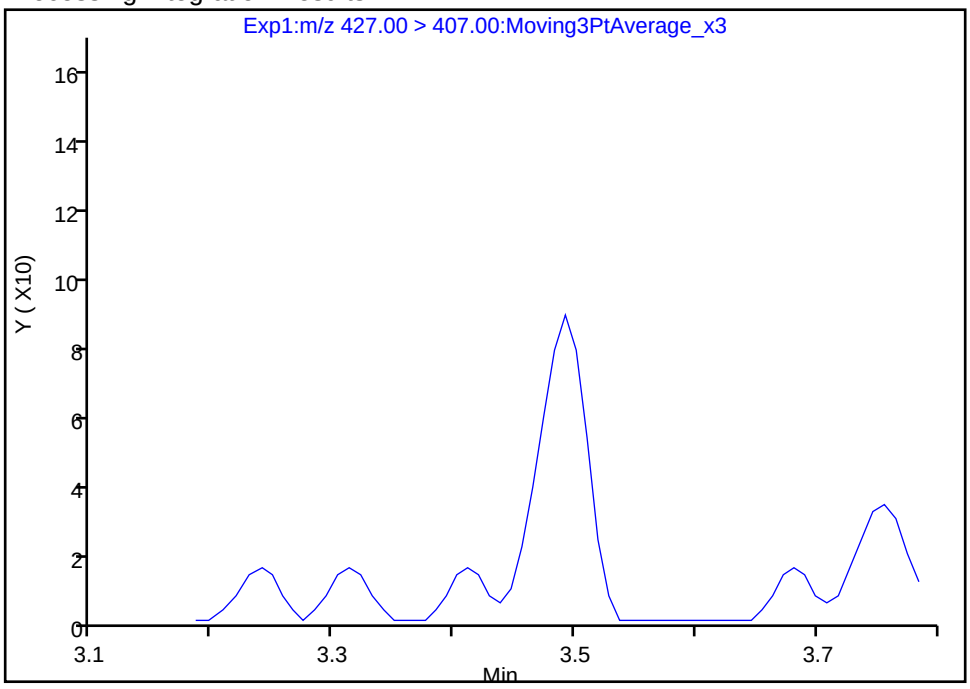
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A09.d				
Injection Date:	26-Feb-2021 13:52:39	Instrument ID:	LC812		
Lims ID:	480-181249-A-1-A	Lab Sample ID:	200-181249-1		
Client ID:	SB-12C (32-33)				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

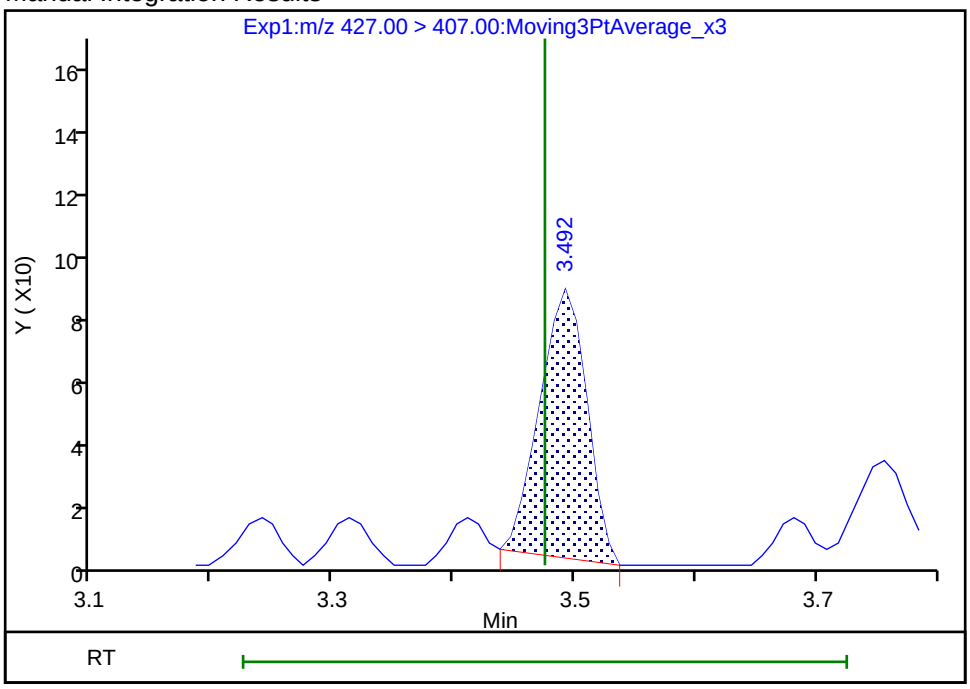
Not Detected
Expected RT: 3.48

Processing Integration Results



Manual Integration Results

RT: 3.49
Area: 228
Amount: 0.002309
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:39:31
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

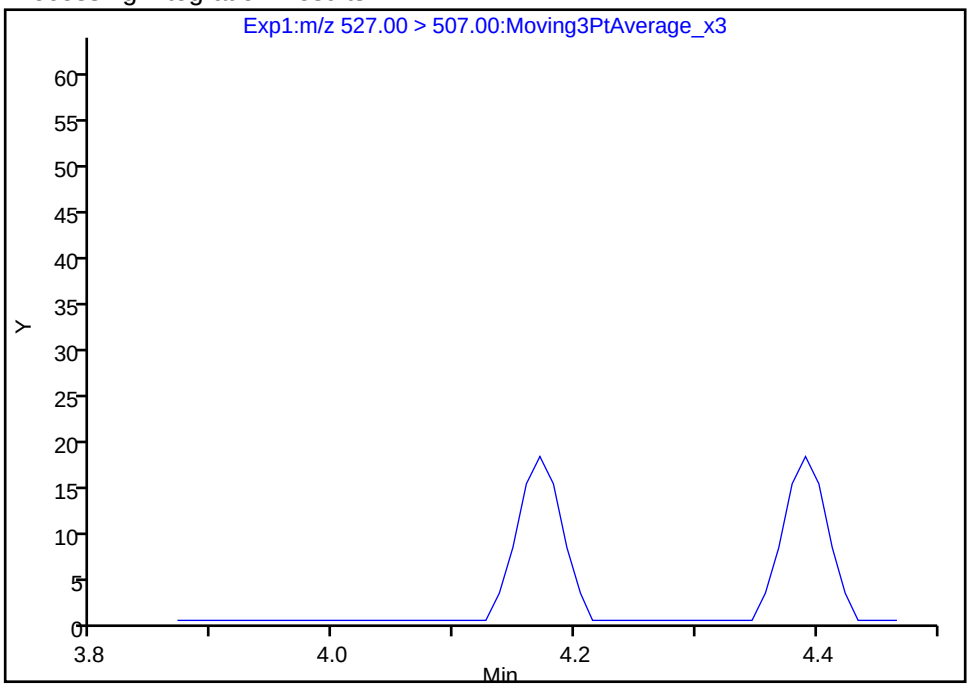
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A09.d				
Injection Date:	26-Feb-2021 13:52:39	Instrument ID:	LC812		
Lims ID:	480-181249-A-1-A	Lab Sample ID:	200-181249-1		
Client ID:	SB-12C (32-33)				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

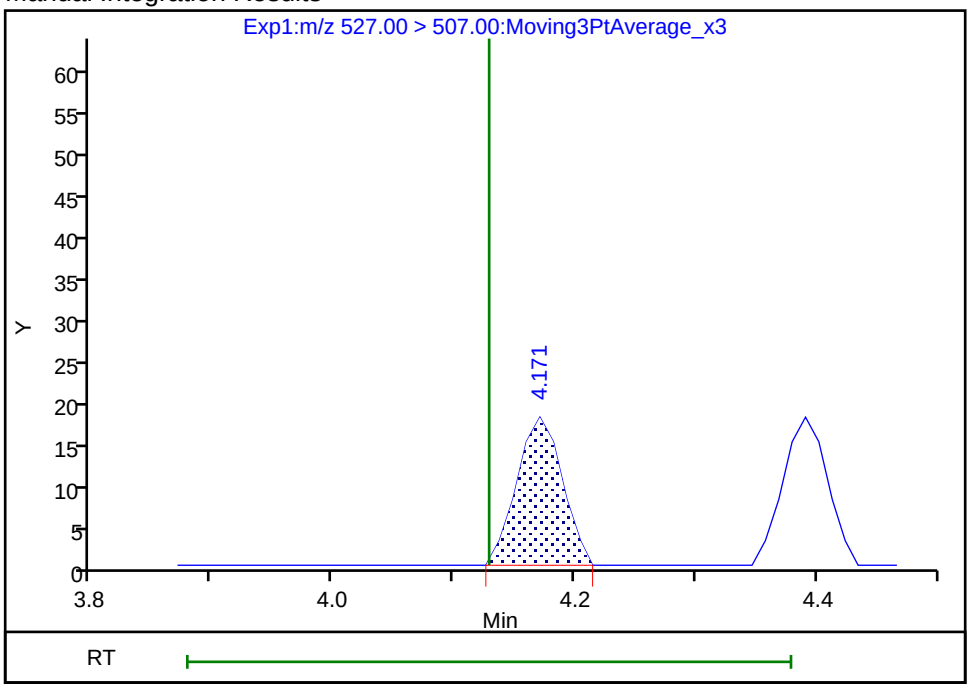
Not Detected
Expected RT: 4.13

Processing Integration Results



Manual Integration Results

RT: 4.17
Area: 46
Amount: 0.000649
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:41:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

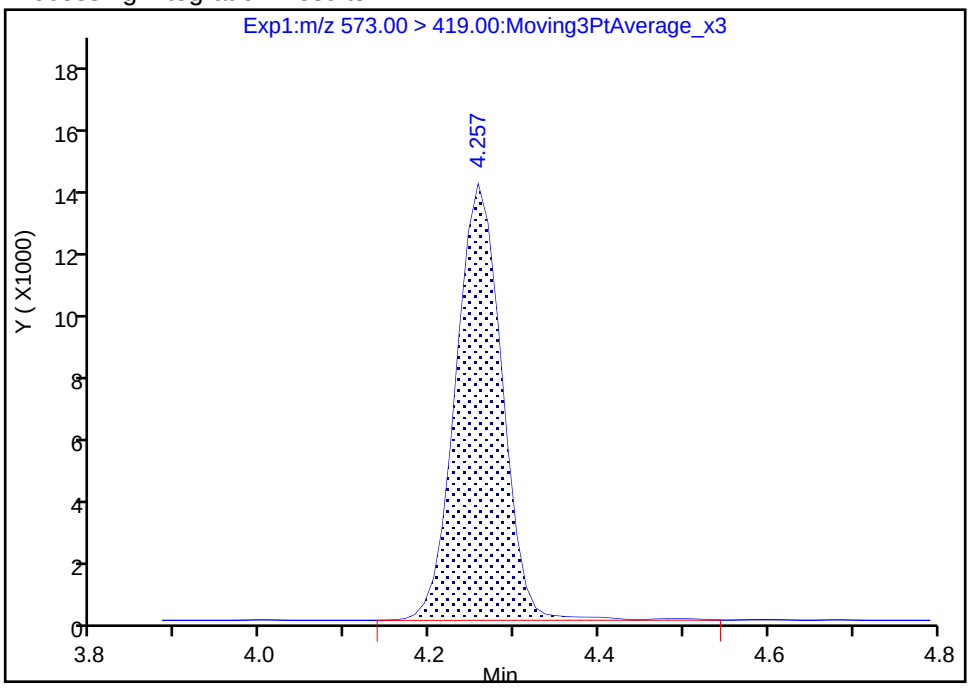
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A09.d				
Injection Date:	26-Feb-2021 13:52:39	Instrument ID:	LC812		
Lims ID:	480-181249-A-1-A	Lab Sample ID:	200-181249-1		
Client ID:	SB-12C (32-33)				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

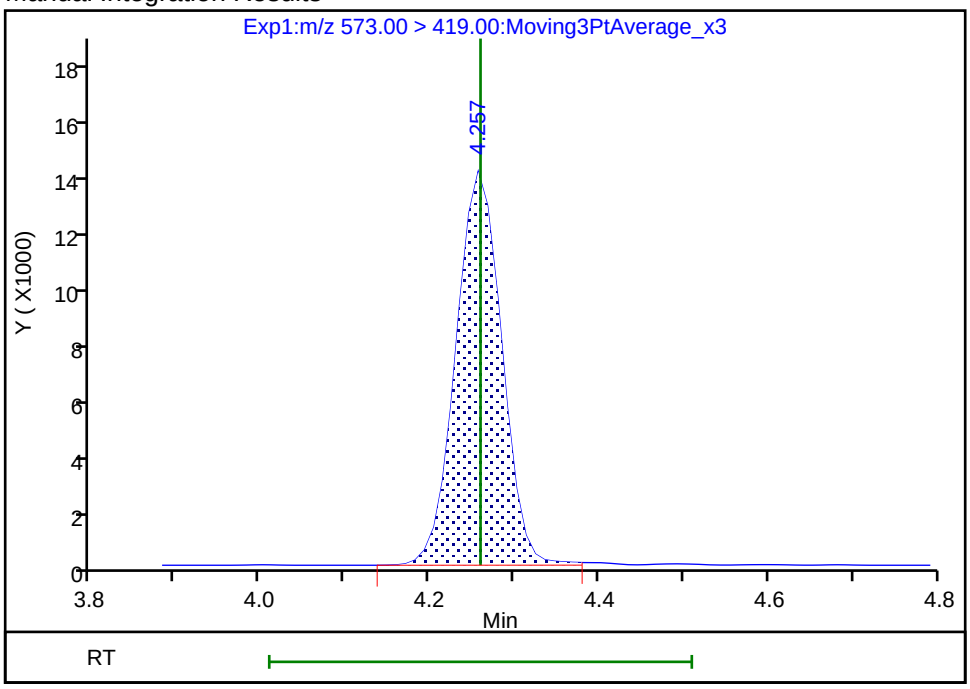
Processing Integration Results

RT: 4.26
Area: 51472
Amount: 1.178265
Amount Units: ng/ml



Manual Integration Results

RT: 4.26
Area: 51107
Amount: 1.169910
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:36:39

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

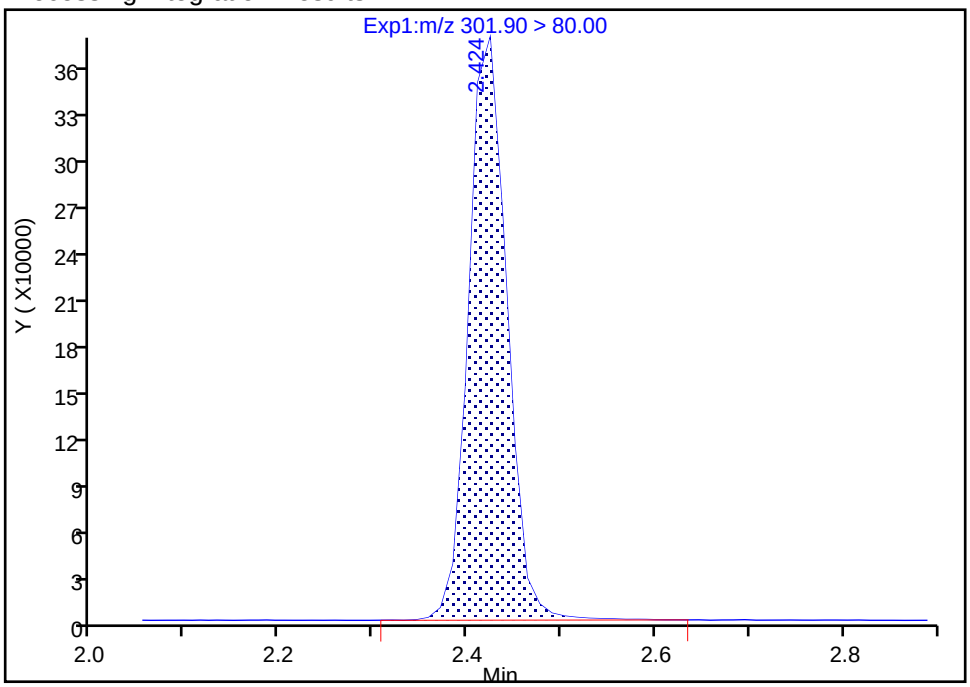
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A09.d				
Injection Date:	26-Feb-2021 13:52:39	Instrument ID:	LC812		
Lims ID:	480-181249-A-1-A	Lab Sample ID:	200-181249-1		
Client ID:	SB-12C (32-33)				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

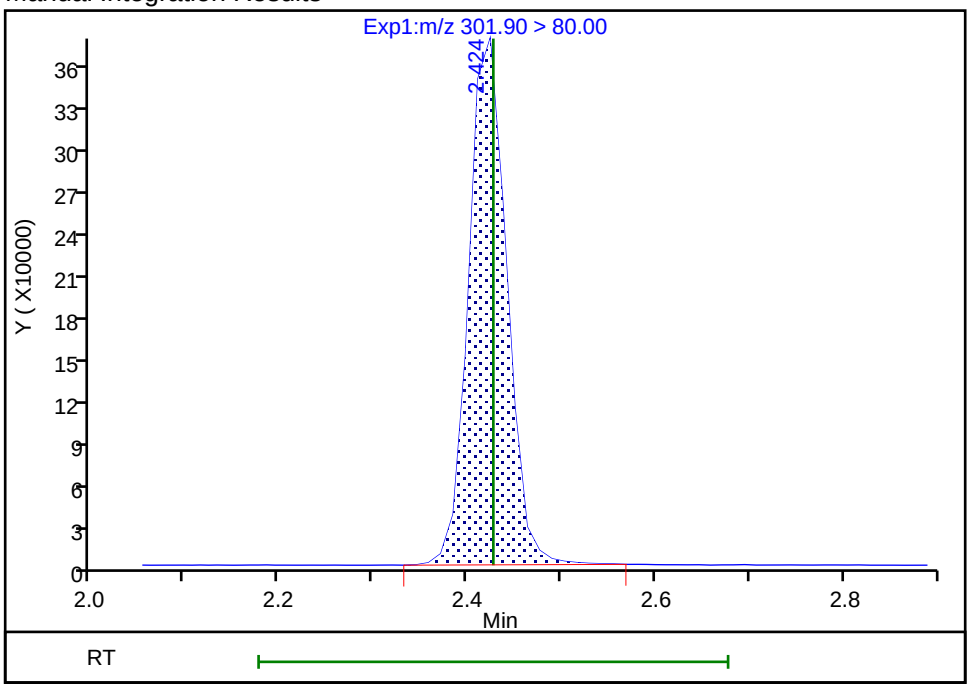
Processing Integration Results

RT: 2.42
Area: 1060034
Amount: 1.149641
Amount Units: ng/ml



Manual Integration Results

RT: 2.42
Area: 1056538
Amount: 1.145849
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:36:16

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12C (55-56) Lab Sample ID: 480-181249-2

Matrix: Solid Lab File ID: PA210226A10.d

Analysis Method: 537 (modified) Date Collected: 02/11/2021 15:10

Extraction Method: SHAKE Date Extracted: 02/25/2021 15:08

Sample wt/vol: 5.26(g) Date Analyzed: 02/26/2021 14:00

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 37.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 164334 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.29	J B	0.76	0.29
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.30	U	0.30	0.027
307-24-4	Perfluorohexanoic acid (PFHxA)	0.30	U	0.30	0.036
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.30	U	0.30	0.035
335-67-1	Perfluorooctanoic acid (PFOA)	0.30	U	0.30	0.021
375-95-1	Perfluorononanoic acid (PFNA)	0.30	U	0.30	0.030
335-76-2	Perfluorodecanoic acid (PFDA)	0.30	U	0.30	0.032
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.30	U	0.30	0.036
307-55-1	Perfluorododecanoic acid (PFDoA)	0.30	U	0.30	0.023
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.30	U	0.30	0.020
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.30	U	0.30	0.029
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.30	U	0.30	0.013
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.30	U	0.30	0.023
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.30	U	0.30	0.023
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.30	U	0.30	0.10
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.30	U	0.30	0.029
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.30	U	0.30	0.013
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.02	U	3.02	0.051
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	3.02	U	3.02	0.045
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	3.02	U	3.02	0.033
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	3.02	U	3.02	0.044

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12C (55-56) Lab Sample ID: 480-181249-2

Matrix: Solid Lab File ID: PA210226A10.d

Analysis Method: 537 (modified) Date Collected: 02/11/2021 15:10

Extraction Method: SHAKE Date Extracted: 02/25/2021 15:08

Sample wt/vol: 5.26(g) Date Analyzed: 02/26/2021 14:00

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 37.1 GPC Cleanup:(Y/N) N

Analysis Batch No.: 164334 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	67		50-150
STL01892	13C4 PFHpA	82		50-150
STL00990	13C4 PFOA	77		50-150
STL00991	13C4 PFOS	70		50-150
STL00995	13C5 PFNA	77		50-150
STL00992	13C4 PFBA	79		25-150
STL00993	13C2 PFHxA	85		50-150
STL00996	13C2 PFDA	78		50-150
STL00997	13C2 PFUnA	77		50-150
STL00998	13C2 PFDoA	73		50-150
STL01056	13C8 FOSA	70		25-150
STL01893	13C5 PFPeA	79		25-150
STL02116	13C2 PFTeDA	62		50-150
STL02118	d3-NMeFOSAA	72		50-150
STL02117	d5-NEtFOSAA	74		50-150
STL02279	M2-6:2 FTS	63		25-150
STL02280	M2-8:2 FTS	67		25-150
STL02337	13C3 PFBS	69		50-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A10.d
Lims ID: 480-181249-A-2-A
Client ID: SB-12C (55-56)
Sample Type: Client
Inject. Date: 26-Feb-2021 14:00:57 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 480-181249-A-2-A
Misc. Info.: 200-0044972-010 Plate: 1 Rack: 2
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 01-Mar-2021 10:52:47 Calib Date: 22-Dec-2020 13:29:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1604

First Level Reviewer: khanphomeea Date: 01-Mar-2021 09:47:01
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.080	2.082	-0.002	0.597	985958	0.9845		78.8	7857	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.080	2.082	-0.002	1.000	76375	0.0966			22.4	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.398	2.401	-0.003	0.688	715553	0.9885		79.1	2641	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.385	2.401	-0.016	0.995	1936	0.003054			0.2	M
D 47 13C3 PFBS										
301.90 > 80.00	2.424	2.427	-0.003	0.696	760221	0.7981		68.7	139008	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.424	2.427	-0.003	1.000	1897	0.002564	Target=2.21		3.6	
298.90 > 99.00	2.424	2.427	-0.003	1.000	1040		1.82(1.11-3.32)		0.8	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.756	2.759	-0.003	0.791	808921	1.07		85.3	2960	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.122	3.123	-0.001	1.000	2744	0.004868	Target=4.15		6.9	M
399.00 > 99.00	3.133	3.123	0.009	1.003	870		3.15(2.08-6.23)		0.7	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.122	3.123	-0.001	0.896	565551	0.7976		67.5	2236	
D 9 13C4 PFHpA										
367.00 > 322.00	3.122	3.133	-0.011	0.896	744421	1.02		82.0	2722	
10 Perfluoroheptanoic acid										RM
363.00 > 319.00	3.122	3.133	-0.011	1.000	1438	0.002211	Target=3.66		0.5	R
363.00 > 169.00	3.143	3.133	0.010	1.007	223		6.45(1.83-5.49)		0.7	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.474	3.475	-0.001	0.997	65904	0.7447		62.7	192	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.456	3.475	-0.019	0.995	275	0.004455			8.1	M
D 14 13C4 PFOA										
417.00 > 372.00	3.483	3.484	-0.001	1.000	707916	0.9596		76.8	2845	
* 62 13C2 PFOA										
415.00 > 370.00	3.483	3.484	-0.001		931871	1.25			1320	
15 Perfluorooctanoic acid										RM
413.00 > 369.00	3.492	3.493	-0.001	1.003	3146	0.005125	Target=2.58		0.7	RM
413.00 > 169.00	3.492	3.493	-0.001	1.003	772		4.08(1.29-3.87)		2.0	M
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.795	3.796	-0.001	1.000	1981	0.005082	Target=5.65		3.4	RM
499.00 > 99.00	3.786	3.796	-0.010	0.997	1299		1.53(2.82-8.47)		2.4	M
D 18 13C4 PFOS										
503.00 > 80.00	3.795	3.796	-0.001	1.090	405036	0.8323		69.6	1757	
D 19 13C5 PFNA										
468.00 > 423.00	3.815	3.816	-0.001	1.095	628284	0.9654		77.2	2746	
D 23 13C2 PFDA										
515.00 > 470.00	4.105	4.118	-0.013	1.178	606952	0.9755		78.0	1870	
24 Perfluorodecanoic acid										RM
513.00 > 469.00	4.105	4.118	-0.013	1.000	1142	0.002282	Target=9.29		0.7	RM
513.00 > 169.00	4.116	4.118	-0.002	1.003	258		4.43(4.64-13.93)		2.2	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.116	4.129	-0.013	1.182	73585	0.8059		67.3	196	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.072	4.129	-0.057	0.989	87	0.002082			2.2	M
D 21 13C8 FOSA										
506.00 > 78.00	4.215	4.207	0.008	1.210	801067	0.8758		70.1	2616	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.215	4.217	-0.002	1.000	824	0.001283			5.1	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.247	4.260	-0.013	1.219	40887	0.9060		72.5	740	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.370	4.373	-0.003	1.254	493460	0.9655		77.2	2205	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.381	4.384	-0.003	1.258	40344	0.9248		74.0	426	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.314	4.395	-0.081	0.985	79	0.002644			1.5	M
D 36 13C2 PFDoA										
615.00 > 570.00	4.602	4.606	-0.004	1.321	489804	0.9078		72.6	3900	
37 Perfluorododecanoic acid										RM
613.00 > 569.00	4.602	4.606	-0.004	1.000	2282	0.005295	Target=6.91		0.9	RM
613.00 > 169.00	4.602	4.606	-0.004	1.000	220		10.37(3.45-10.36)		4.3	M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.802	4.806	-0.004	1.043	604	0.001727	Target=4.39		0.3	M
663.00 > 169.00	4.793	4.806	-0.013	1.042	129		4.68(2.20-6.59)		2.2	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.995	4.998	-0.003	1.434	307048	0.7694		61.6	883	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
42 Perfluorotetradecanoic acid										RM
713.00 > 169.00	4.986	4.998	-0.012	0.998	140	0.003073	Target=1.06	6.0		RM
713.00 > 219.00	5.005	4.998	0.007	1.002	68		2.06(0.53-1.59)	2.7		M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

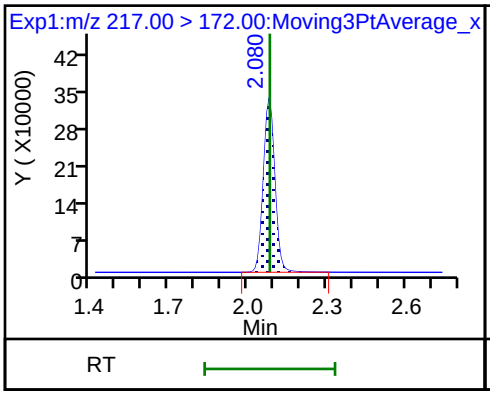
Report Date: 01-Mar-2021 10:53:14 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Burlington

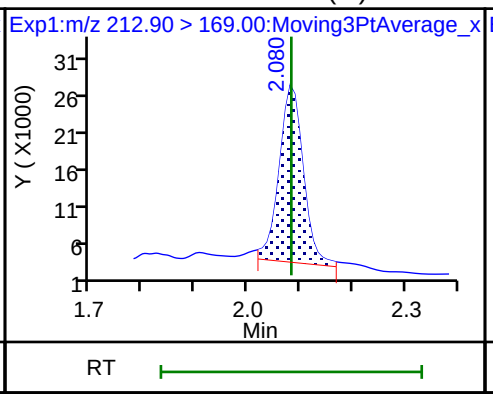
Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A10.d

Injection Date:	26-Feb-2021 14:00:57	Instrument ID:	LC812		
Lims ID:	480-181249-A-2-A	Lab Sample ID:	200-181249-2		
Client ID:	SB-12C (55-56)				
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		

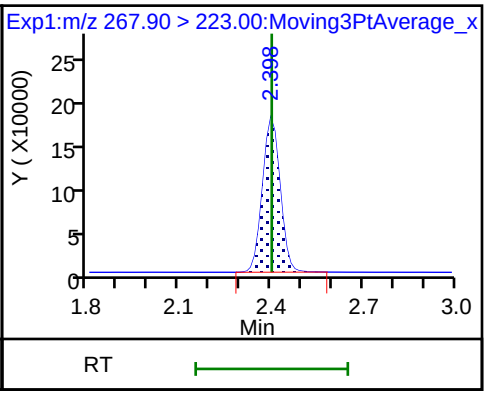
D 1 13C4 PFBA



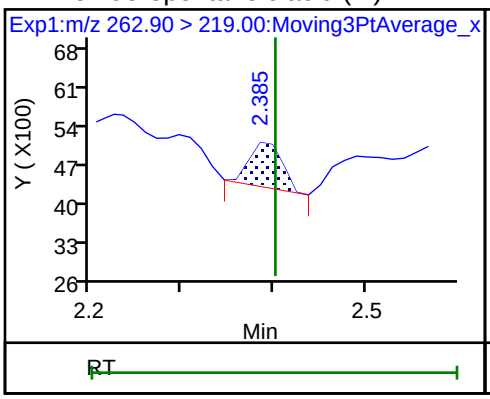
2 Perfluorobutanoic acid (M)



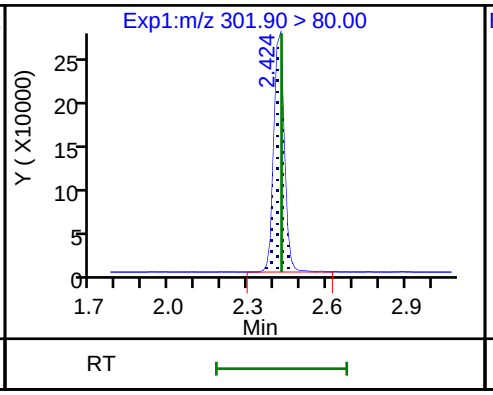
D 3 13C5 PFPeA



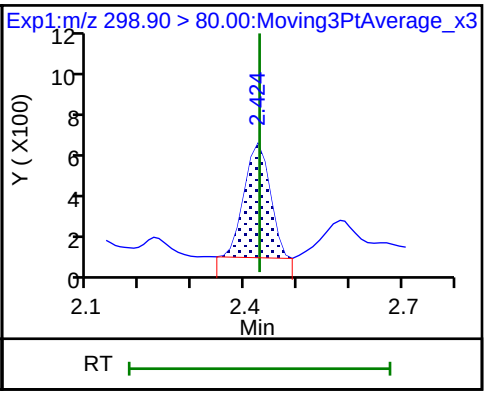
4 Perfluoropentanoic acid (M)



D 47 13C3 PFBS



5 Perfluorobutanesulfonic acid



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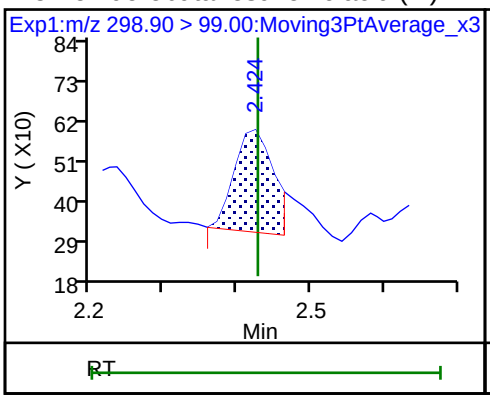
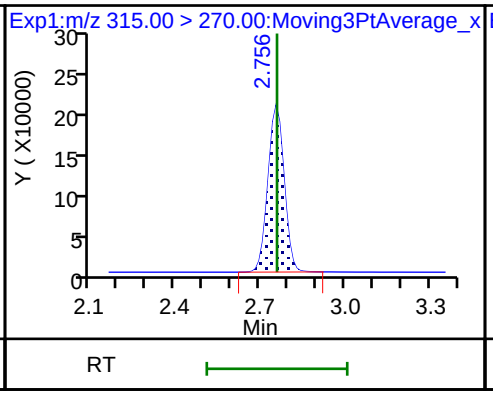
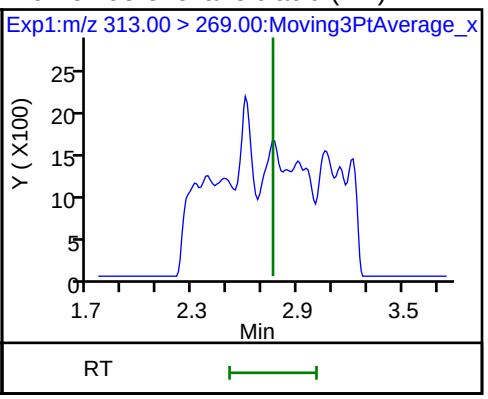


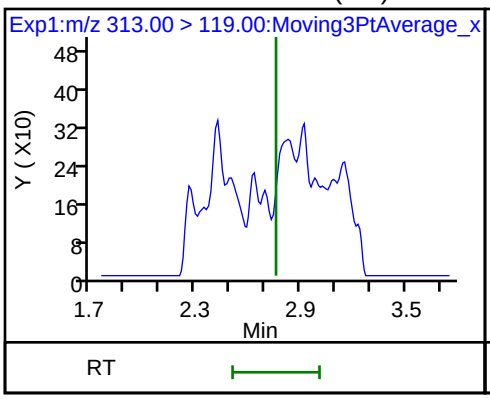
D 7 13C2 PFHxA



6 Perfluorohexanoic acid (ND)



6 Perfluorohexanoic acid (ND)



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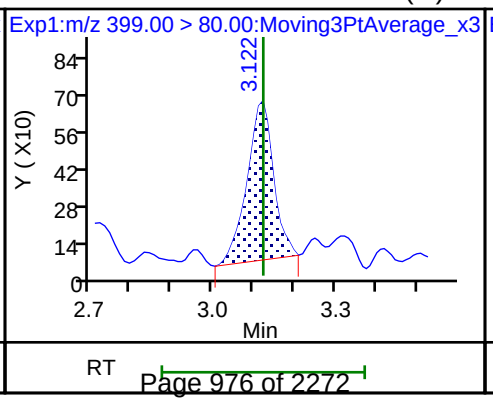

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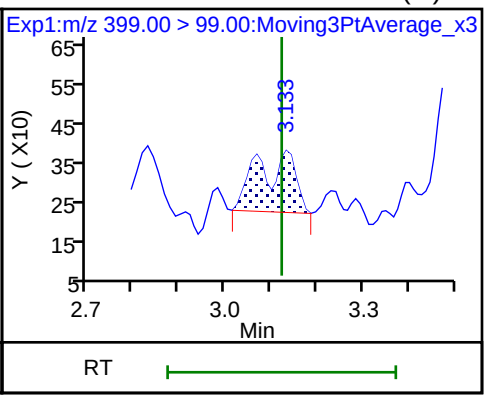
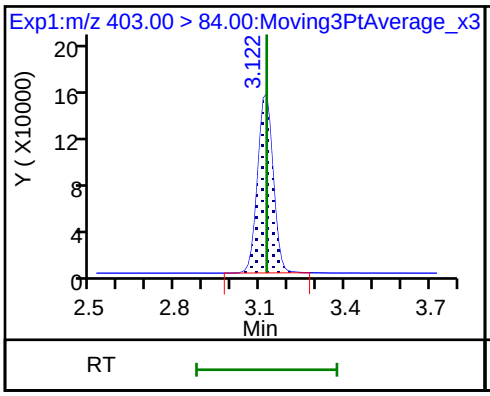
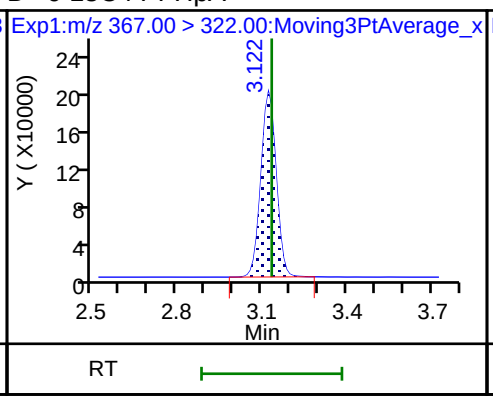


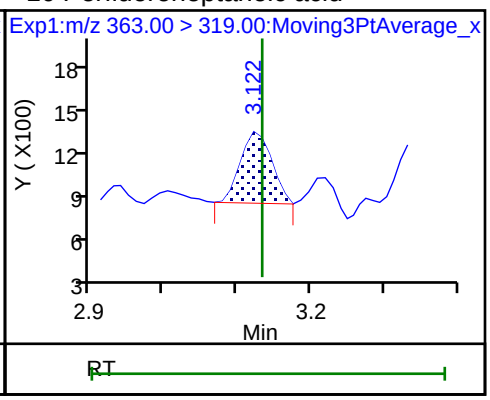
D 11 18O2 PFHxS



D 9 13C4 PFHpA



10 Perfluoroheptanoic acid



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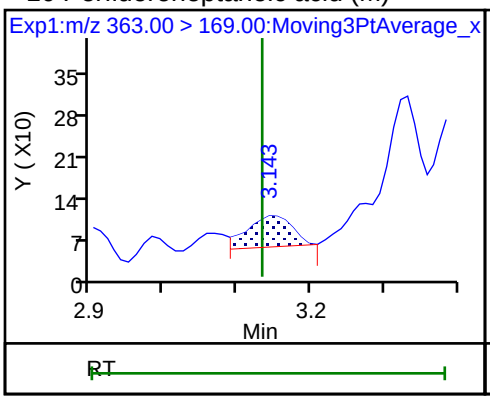

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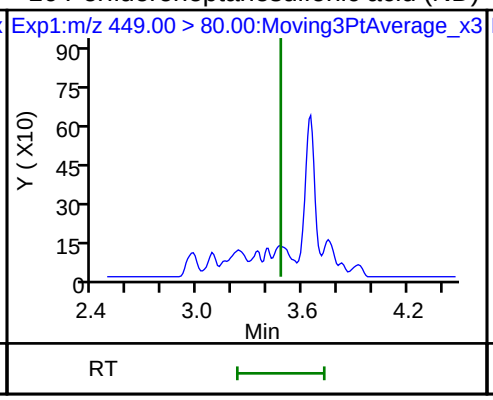
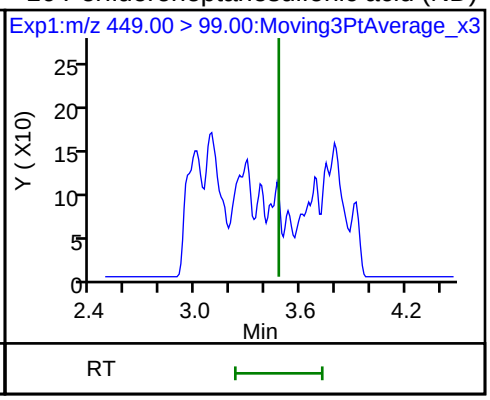
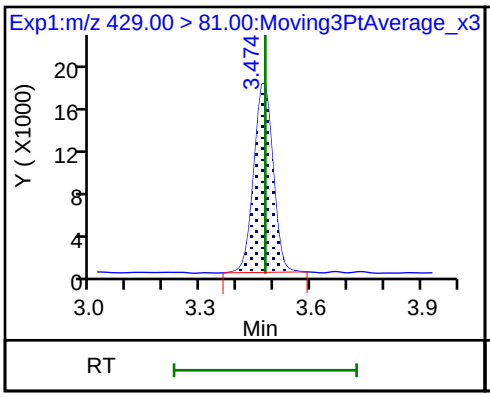


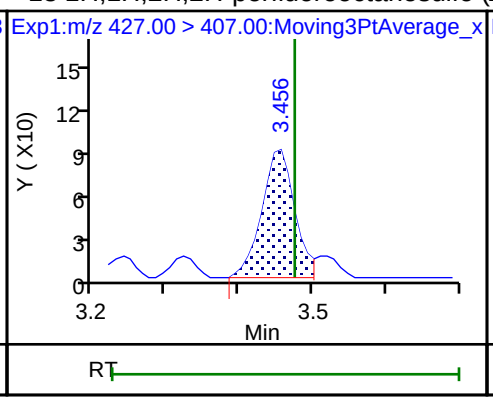
16 Perfluoroheptanesulfonic acid (ND)



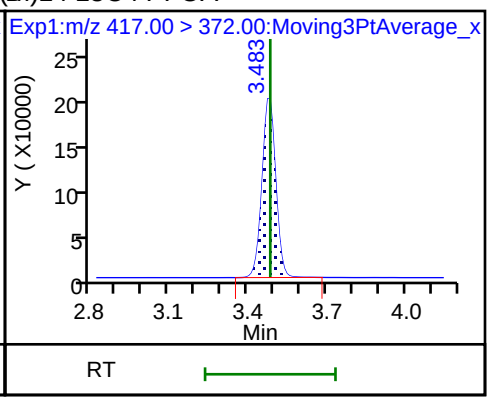
D 12 M2-6:2 FTS



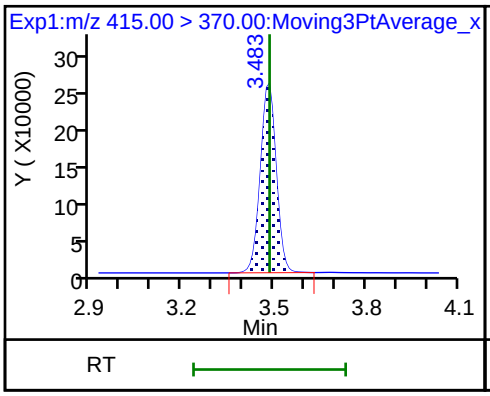
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



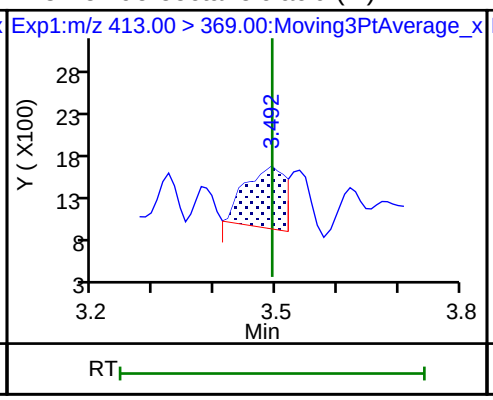
D 14 13C4 PFOA



* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)



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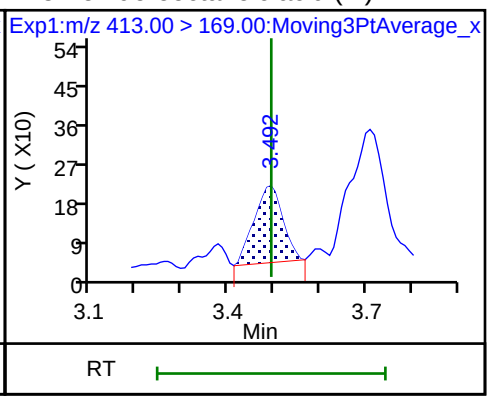

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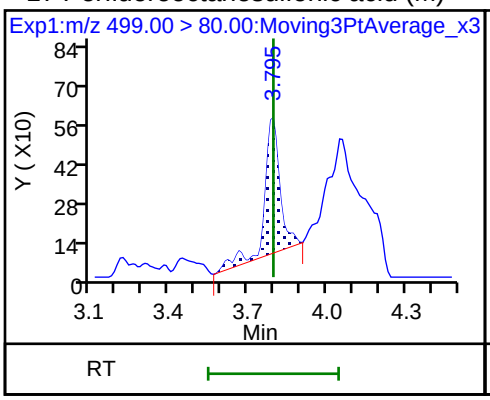
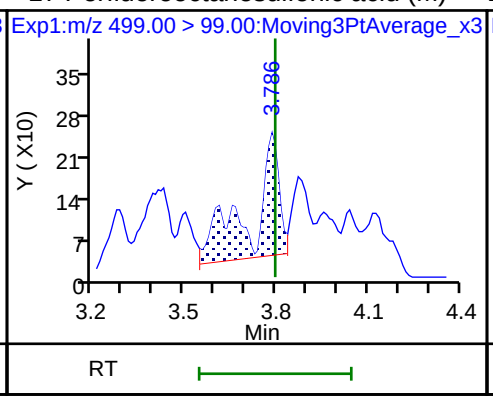
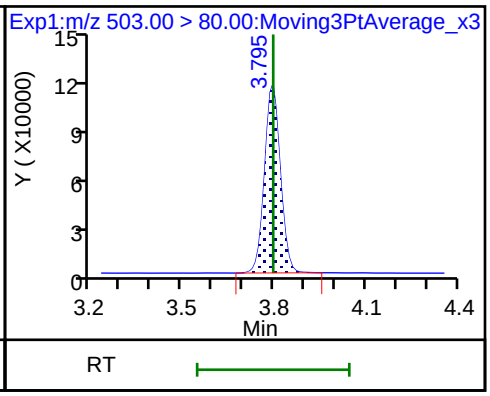


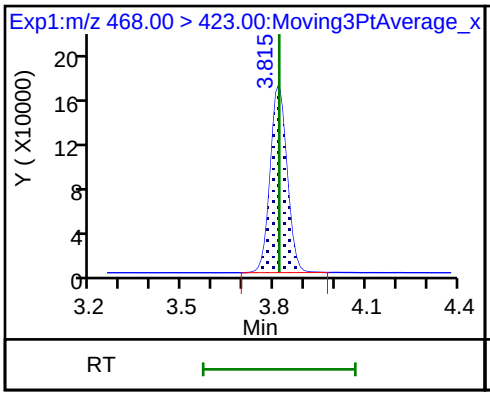
17 Perfluorooctanesulfonic acid (M)



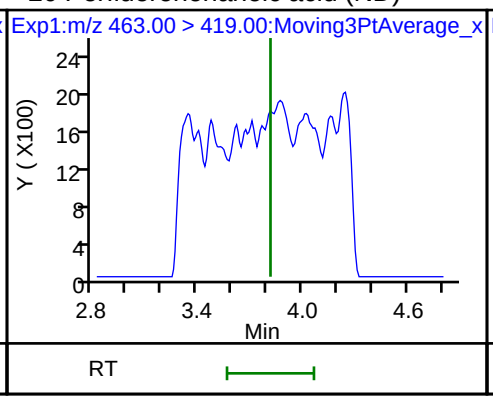
D 18 13C4 PFOS



D 19 13C5 PFNA



20 Perfluorononanoic acid (ND)



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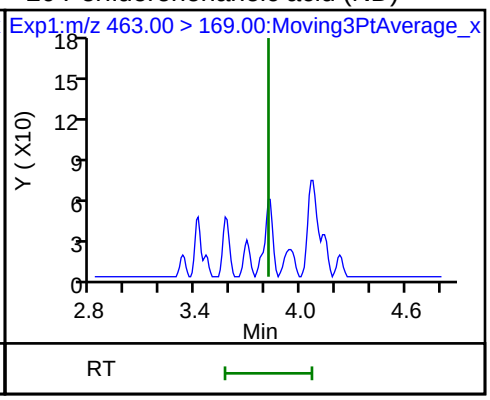
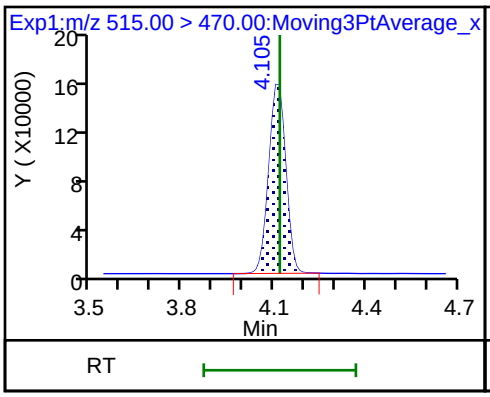
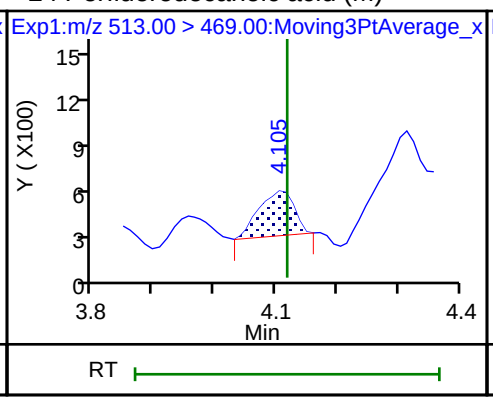


D 23 13C2 PFDA



24 Perfluorodecanoic acid (M)



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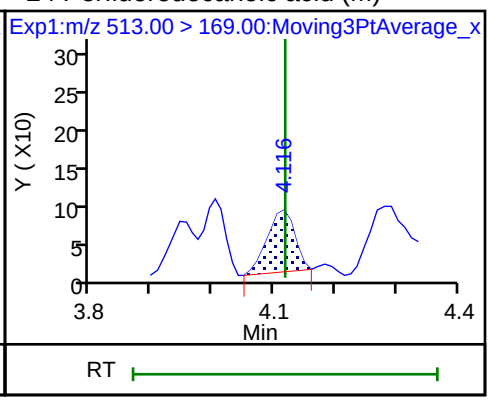
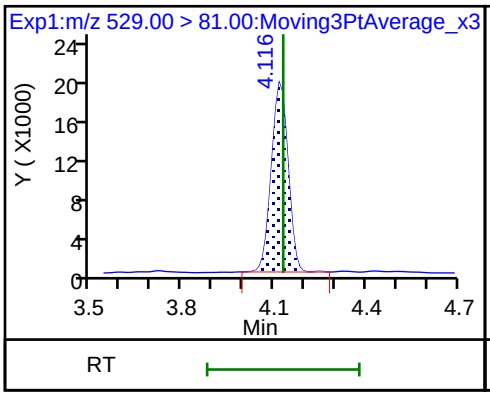
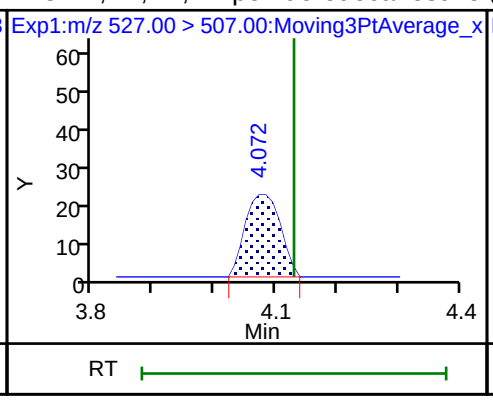


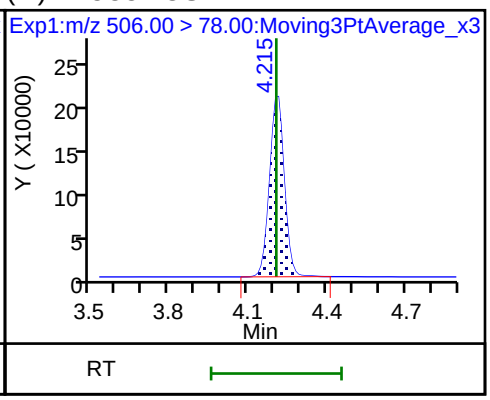
D 26 M2-8:2 FTS



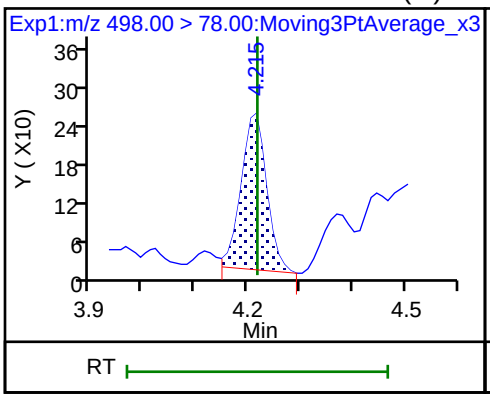
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



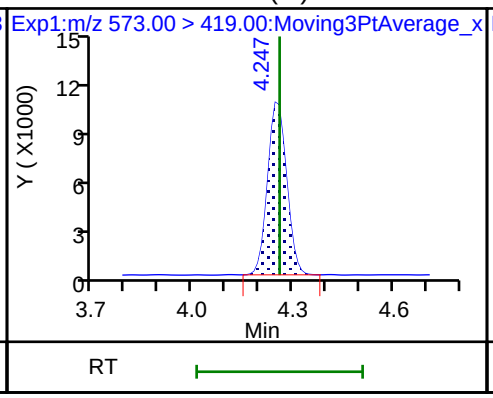
D 21 13C8 FOSA



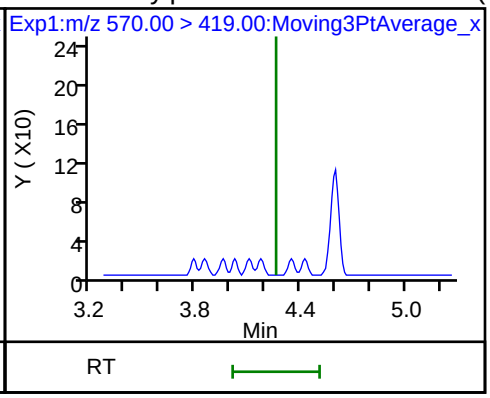
22 Perfluorooctanesulfonamide (M)



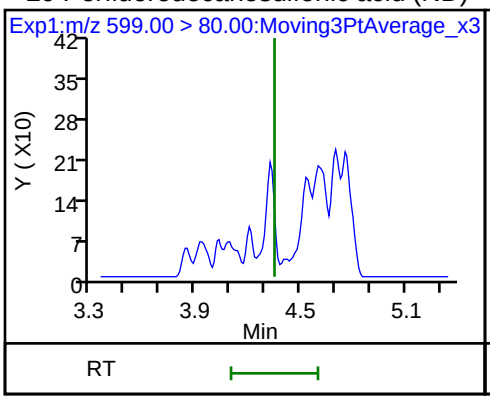
D 27 d3-NMeFOSAA (M)



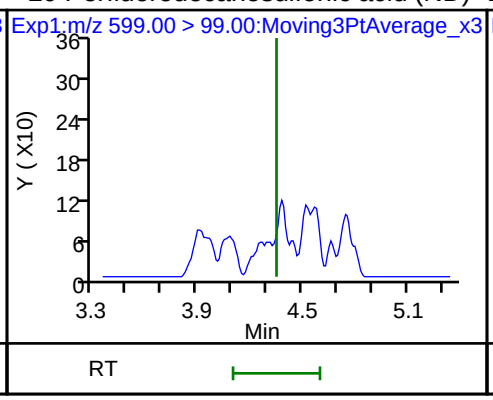
28 N-methylperfluorooctanesulfonami (ND)



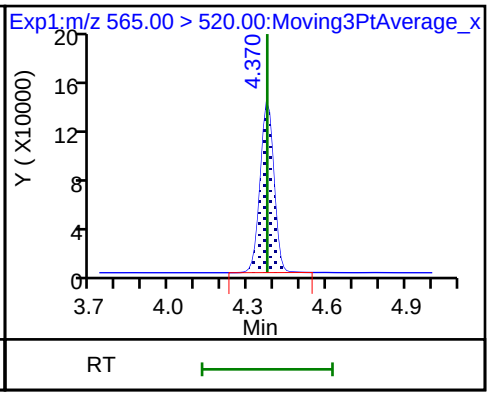
29 Perfluorodecanesulfonic acid (ND)



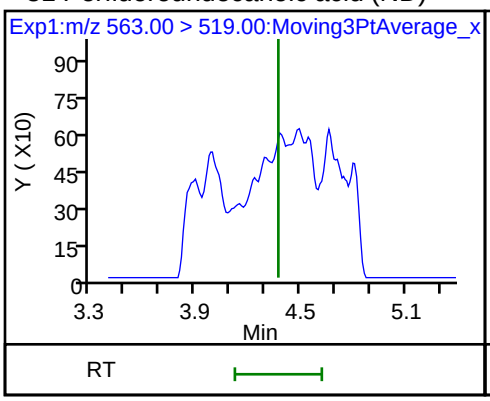
29 Perfluorodecanesulfonic acid (ND)



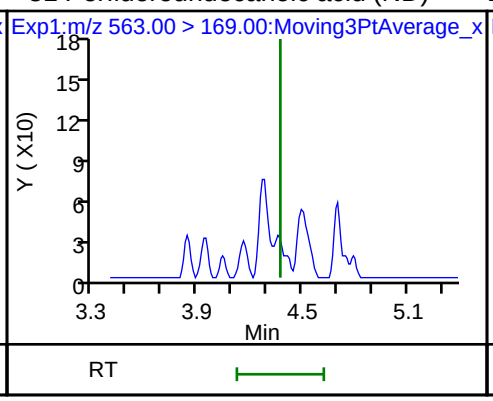
D 30 13C2 PFUnA



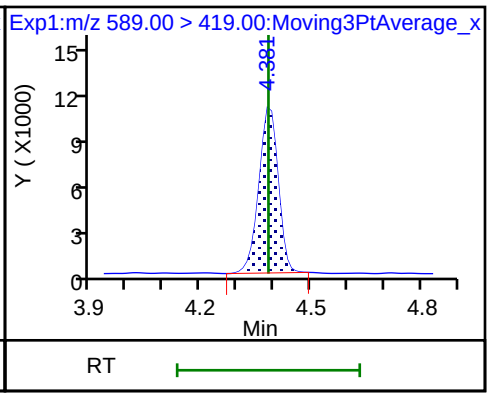
31 Perfluoroundecanoic acid (ND)



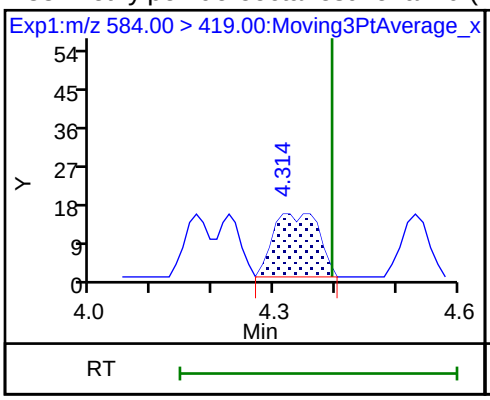
31 Perfluoroundecanoic acid (ND)



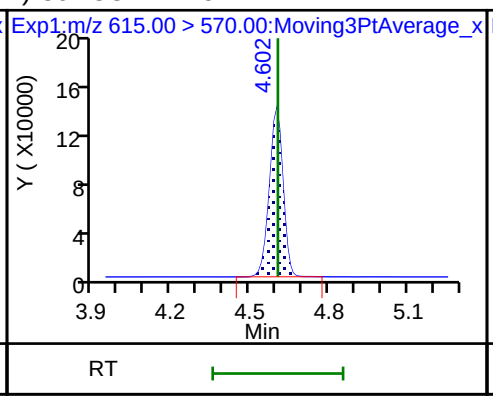
D 32 d5-NEtFOSAA



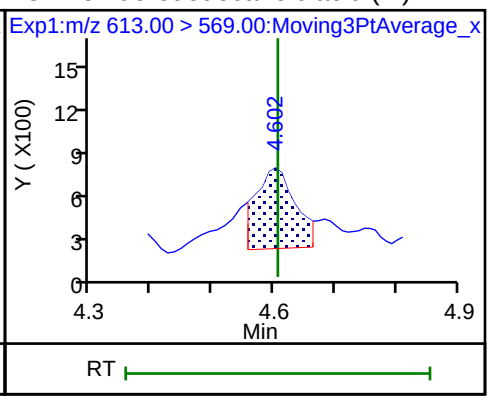
33 N-ethylperfluorooctanesulfonamid (ND)



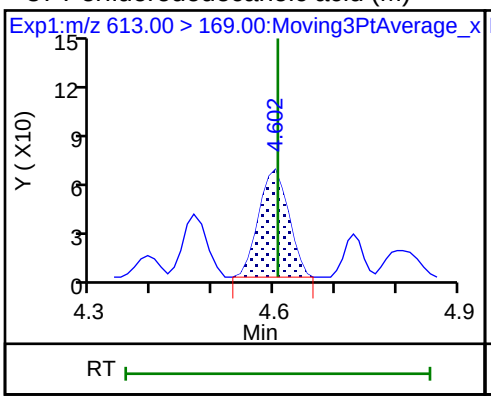
D 36 13C2 PFDoA



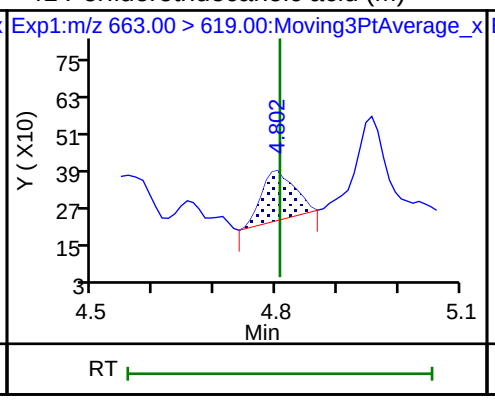
37 Perfluorododecanoic acid (M)



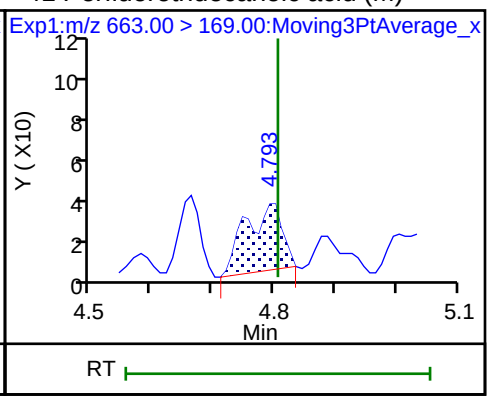
37 Perfluorododecanoic acid (M)



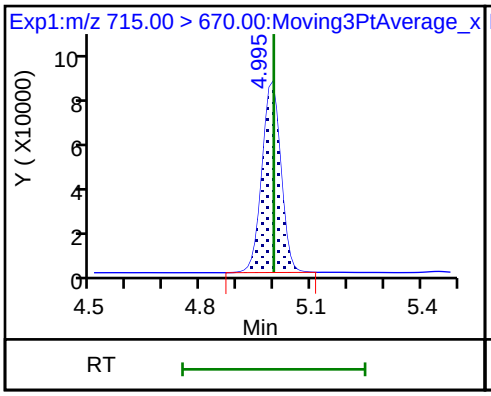
41 Perfluorotridecanoic acid (M)



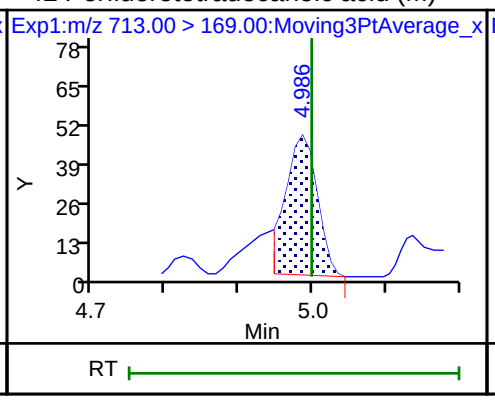
41 Perfluorotridecanoic acid (M)



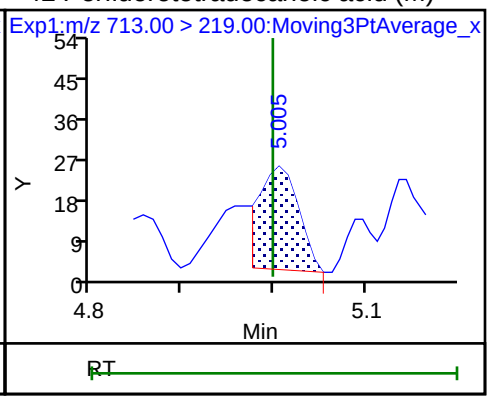
D 43 13C2 PFTeDA



42 Perfluorotetradecanoic acid (M)



42 Perfluorotetradecanoic acid (M)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

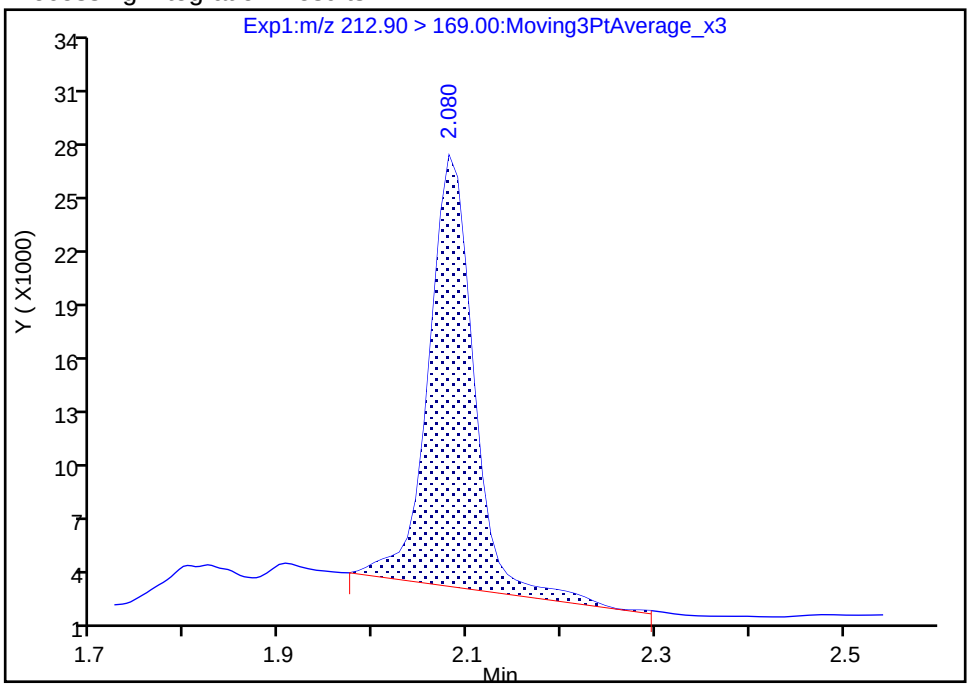
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A10.d				
Injection Date:	26-Feb-2021 14:00:57	Instrument ID:	LC812		
Lims ID:	480-181249-A-2-A	Lab Sample ID:	200-181249-2		
Client ID:	SB-12C (55-56)				
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

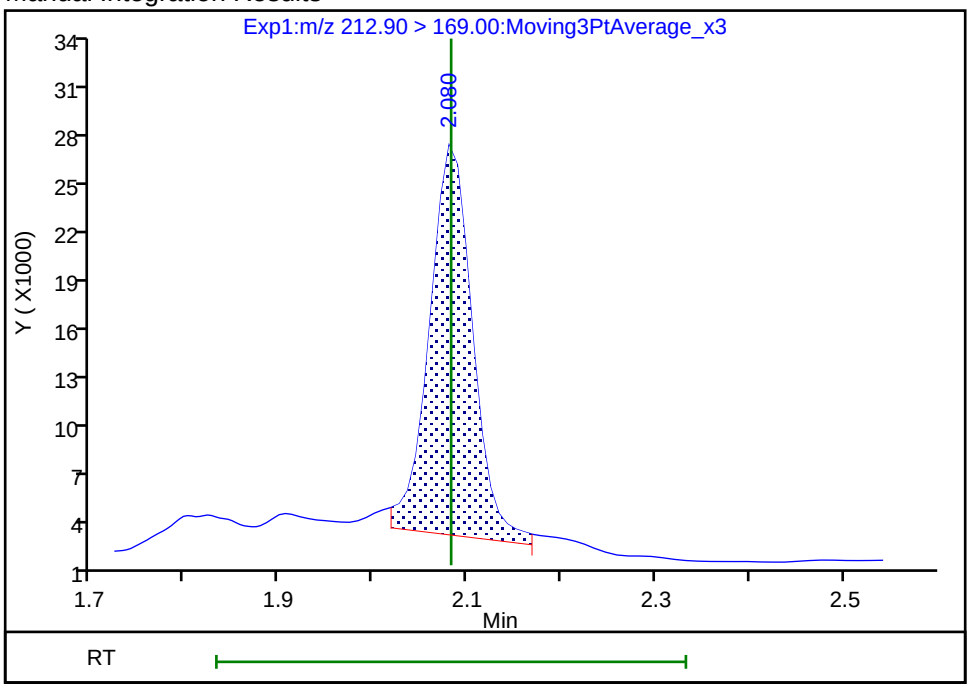
Processing Integration Results

RT: 2.08
Area: 80328
Amount: 0.101636
Amount Units: ng/ml



Manual Integration Results

RT: 2.08
Area: 76375
Amount: 0.096634
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:43:23

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

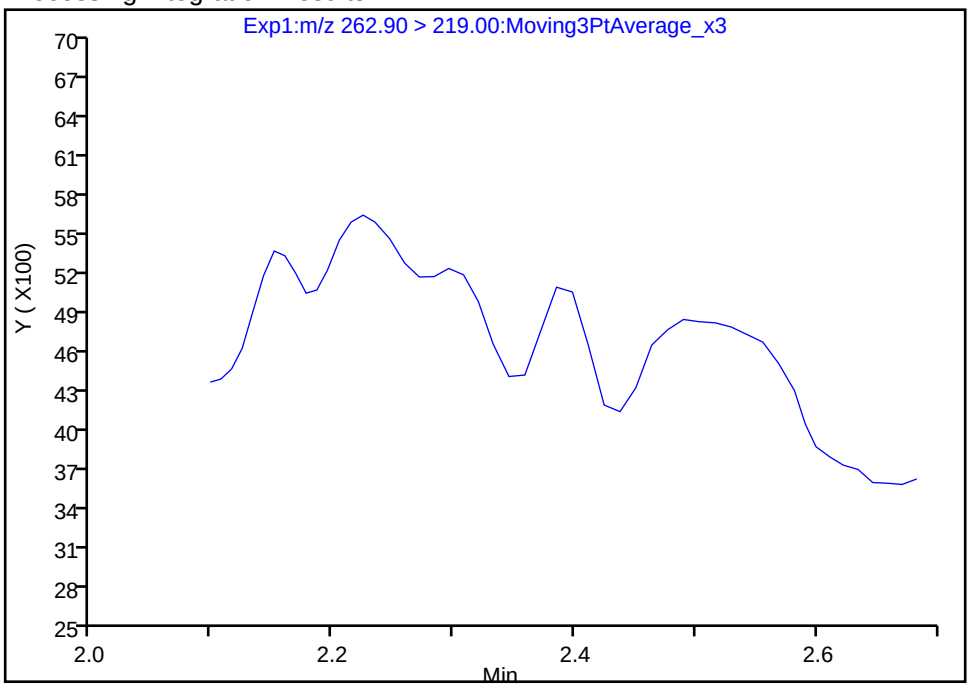
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A10.d				
Injection Date:	26-Feb-2021 14:00:57	Instrument ID:	LC812		
Lims ID:	480-181249-A-2-A	Lab Sample ID:	200-181249-2		
Client ID:	SB-12C (55-56)				
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

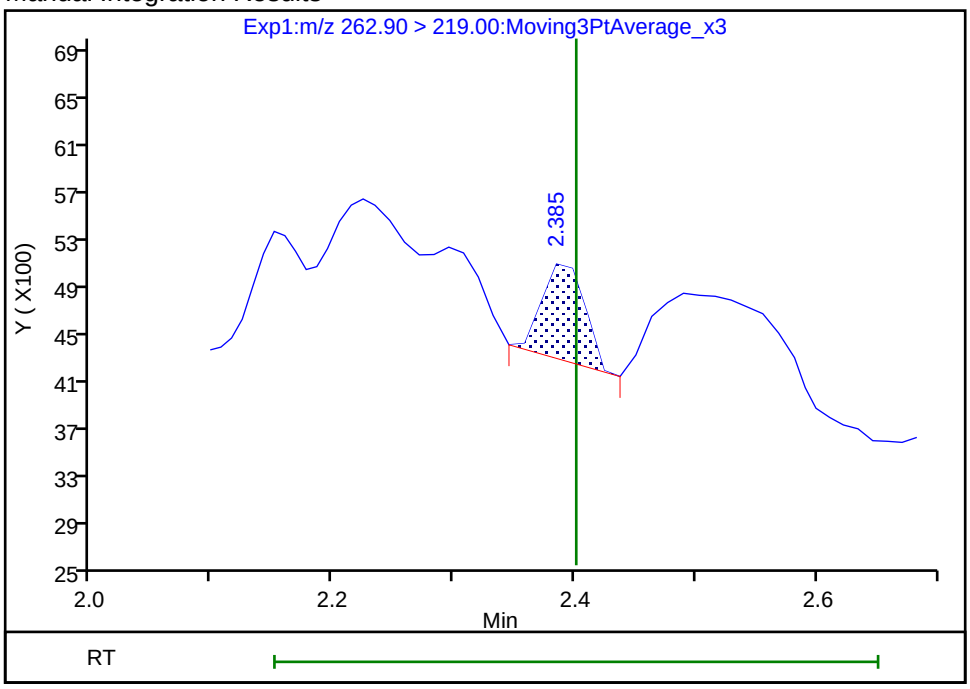
Not Detected
Expected RT: 2.40

Processing Integration Results



Manual Integration Results

RT: 2.38
Area: 1936
Amount: 0.003054
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:43:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

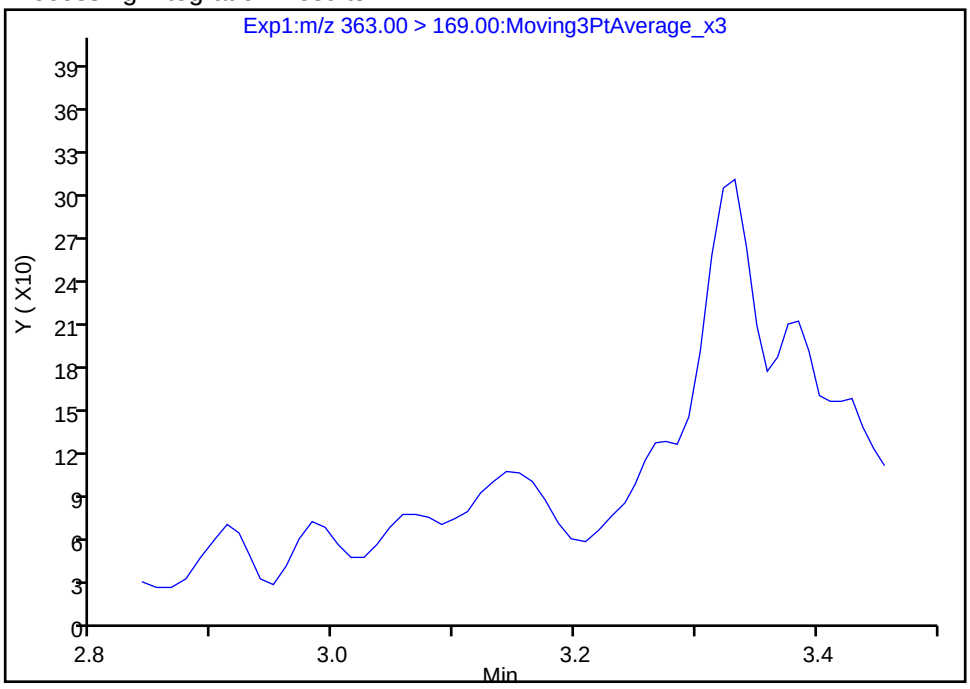
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A10.d				
Injection Date:	26-Feb-2021 14:00:57	Instrument ID:	LC812		
Lims ID:	480-181249-A-2-A	Lab Sample ID:	200-181249-2		
Client ID:	SB-12C (55-56)				
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

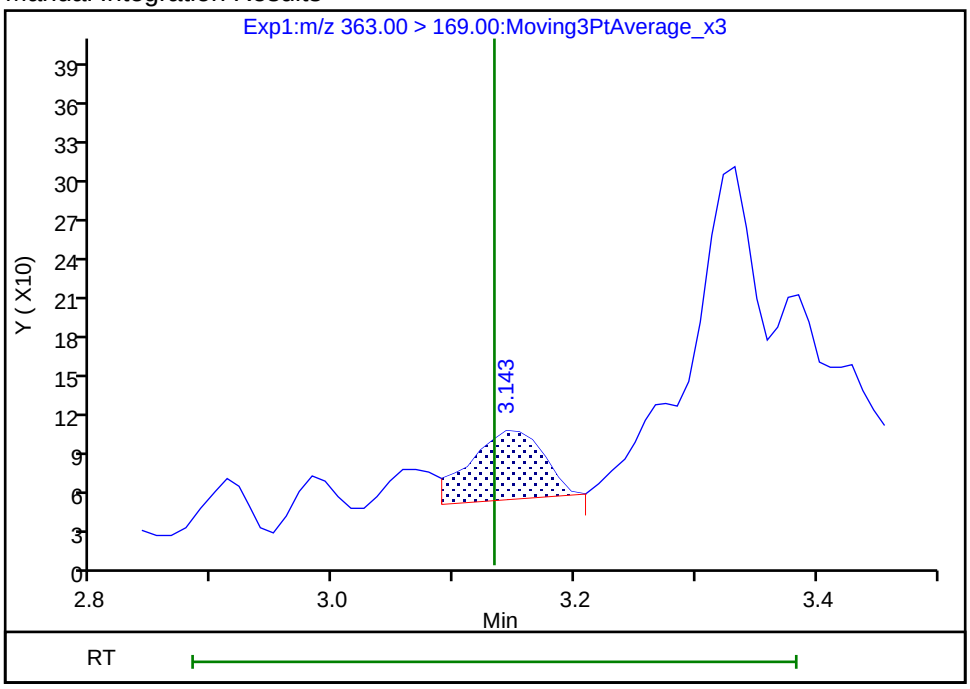
Not Detected
Expected RT: 3.13

Processing Integration Results



Manual Integration Results

RT: 3.14
Area: 223
Amount: 0.002211
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:44:07
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

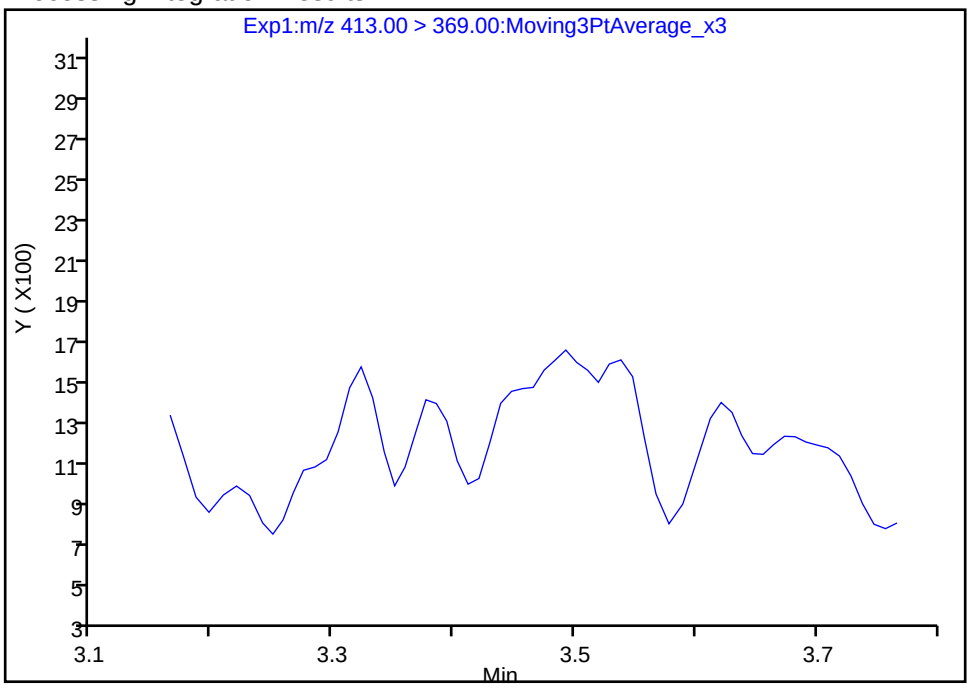
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A10.d				
Injection Date:	26-Feb-2021 14:00:57	Instrument ID:	LC812		
Lims ID:	480-181249-A-2-A	Lab Sample ID:	200-181249-2		
Client ID:	SB-12C (55-56)				
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

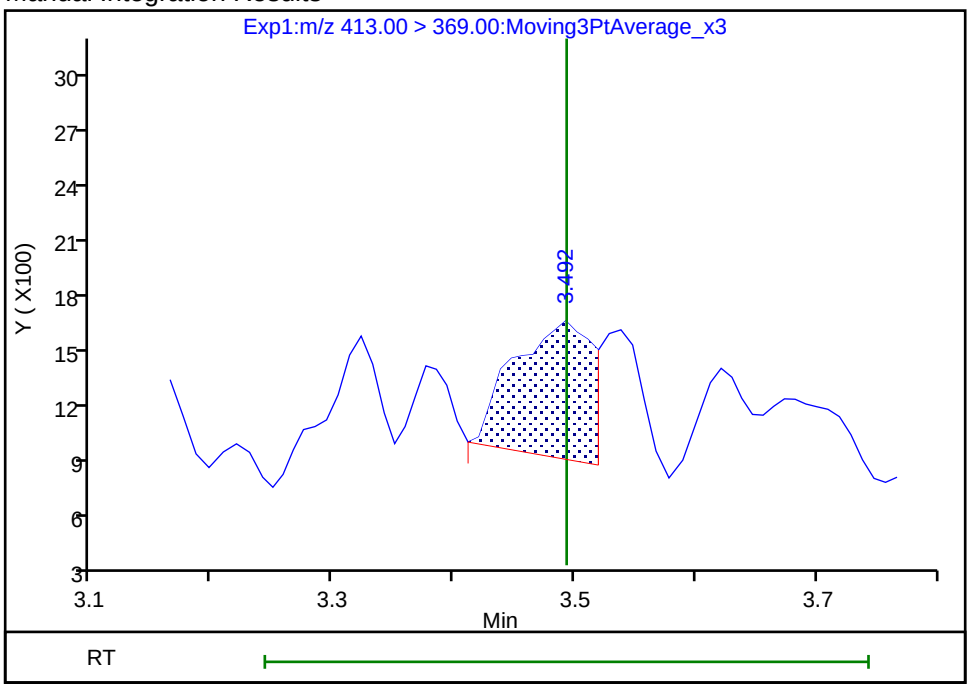
Not Detected
Expected RT: 3.49

Processing Integration Results



Manual Integration Results

RT: 3.49
Area: 3146
Amount: 0.005125
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:44:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

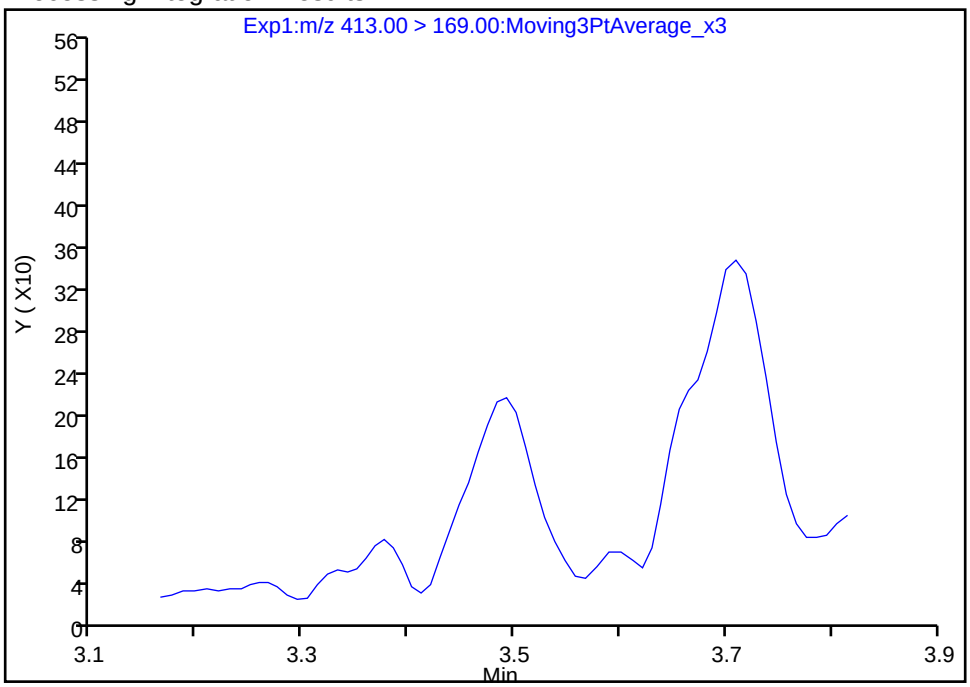
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A10.d				
Injection Date:	26-Feb-2021 14:00:57	Instrument ID:	LC812		
Lims ID:	480-181249-A-2-A	Lab Sample ID:	200-181249-2		
Client ID:	SB-12C (55-56)				
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

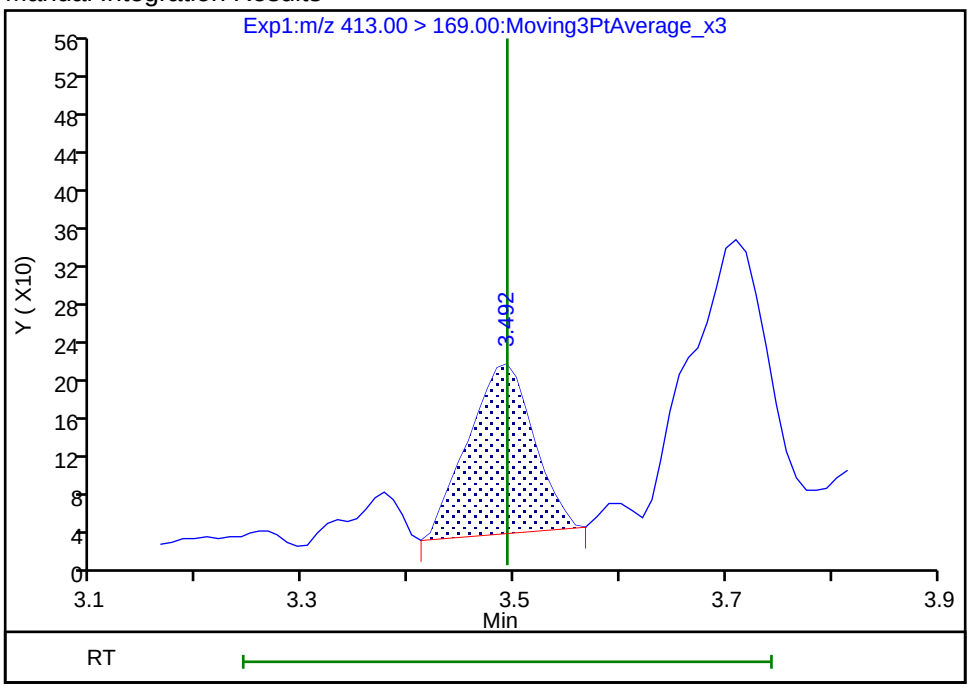
Not Detected
Expected RT: 3.49

Processing Integration Results



Manual Integration Results

RT: 3.49
Area: 772
Amount: 0.005125
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:44:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

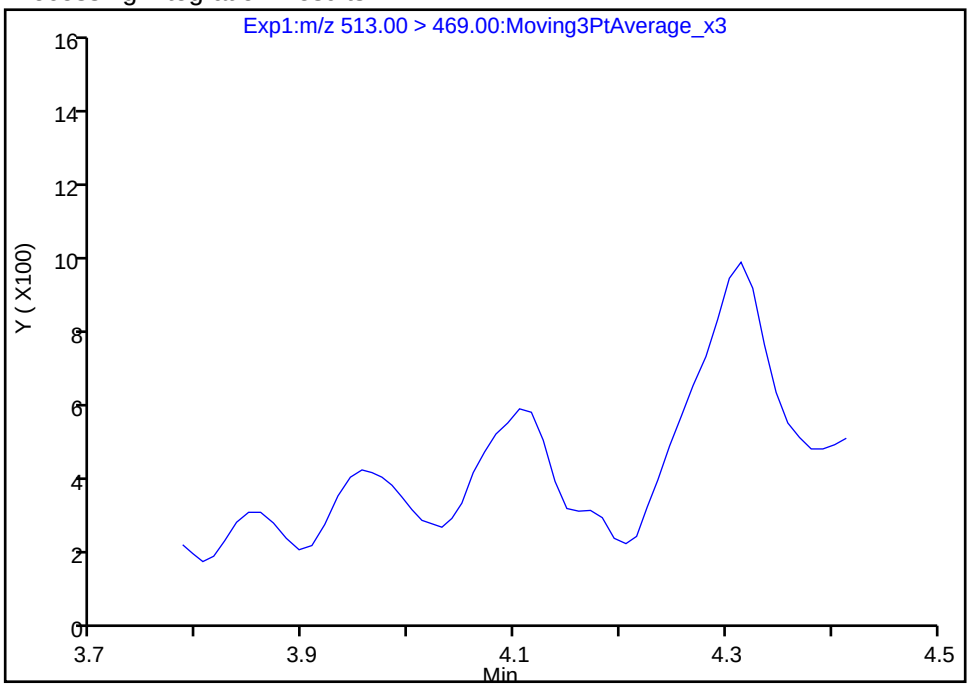
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A10.d				
Injection Date:	26-Feb-2021 14:00:57	Instrument ID:	LC812		
Lims ID:	480-181249-A-2-A	Lab Sample ID:	200-181249-2		
Client ID:	SB-12C (55-56)				
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

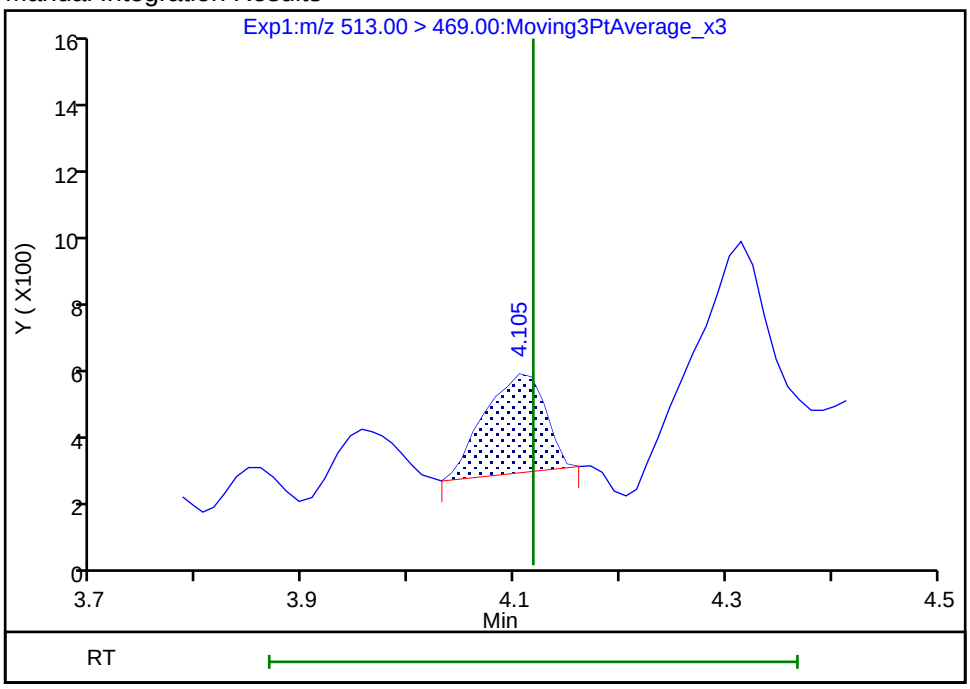
Not Detected
Expected RT: 4.12

Processing Integration Results



Manual Integration Results

RT: 4.10
Area: 1142
Amount: 0.002282
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:45:31
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

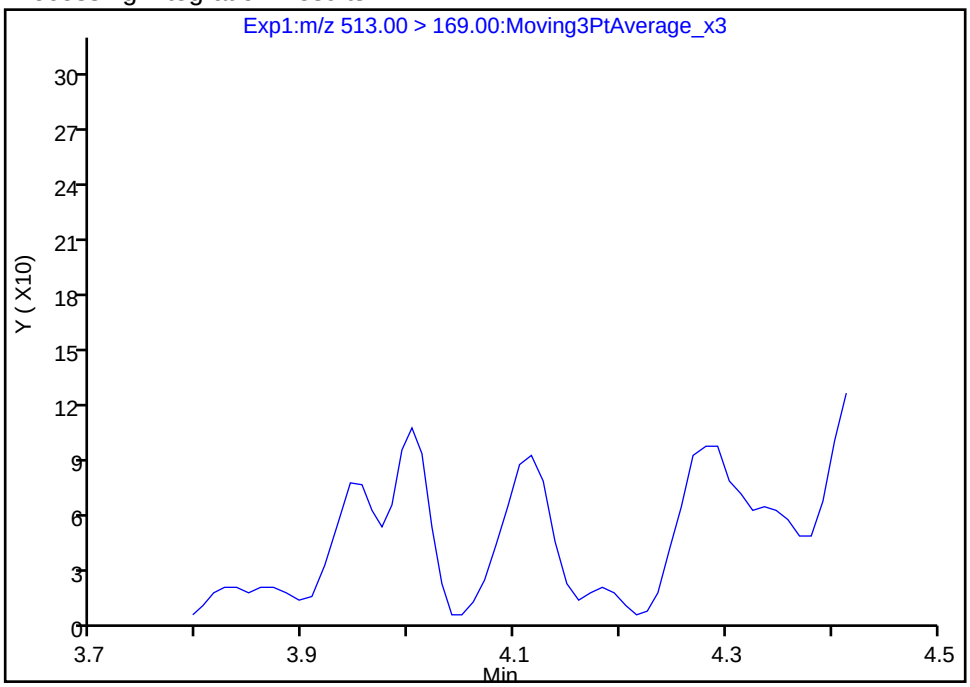
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A10.d				
Injection Date:	26-Feb-2021 14:00:57	Instrument ID:	LC812		
Lims ID:	480-181249-A-2-A	Lab Sample ID:	200-181249-2		
Client ID:	SB-12C (55-56)				
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

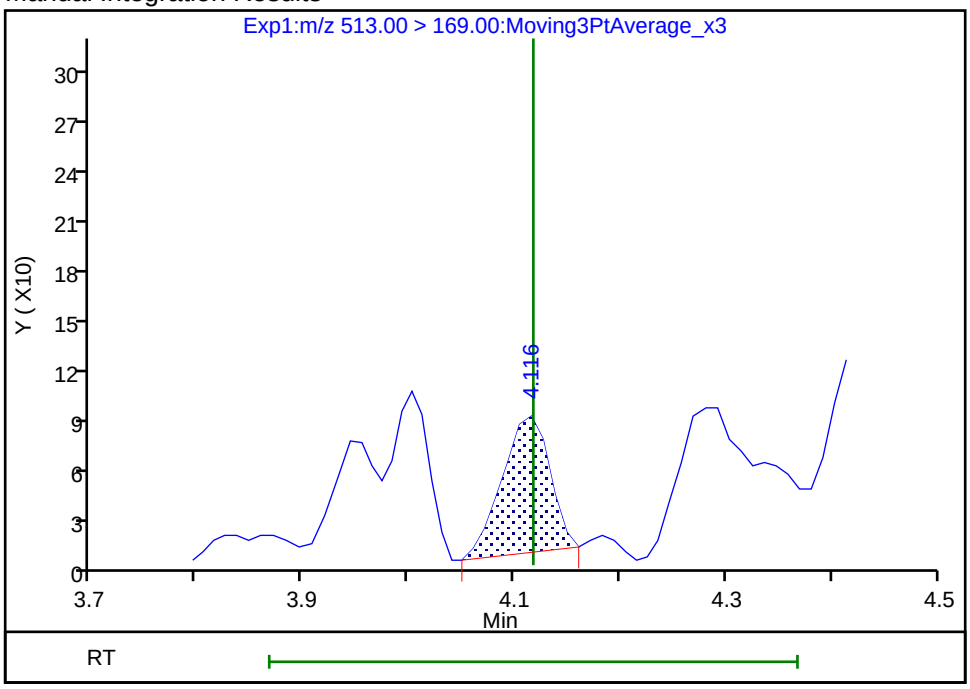
Not Detected
Expected RT: 4.12

Processing Integration Results



Manual Integration Results

RT: 4.12
Area: 258
Amount: 0.002282
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:45:34
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

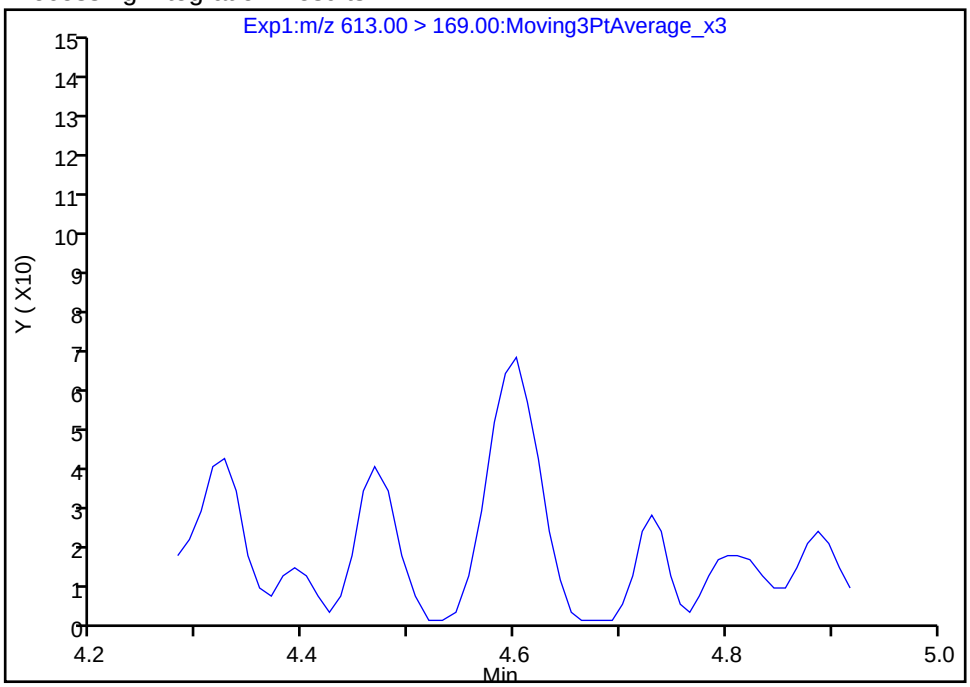
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A10.d				
Injection Date:	26-Feb-2021 14:00:57	Instrument ID:	LC812		
Lims ID:	480-181249-A-2-A	Lab Sample ID:	200-181249-2		
Client ID:	SB-12C (55-56)				
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

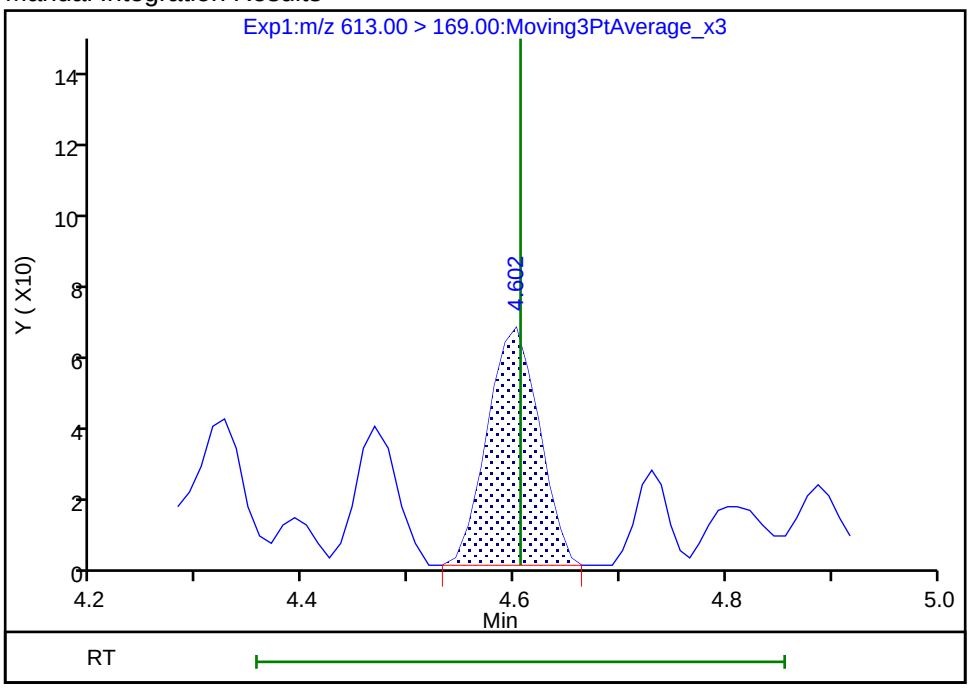
Not Detected
Expected RT: 4.61

Processing Integration Results



Manual Integration Results

RT: 4.60
Area: 220
Amount: 0.005295
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:46:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

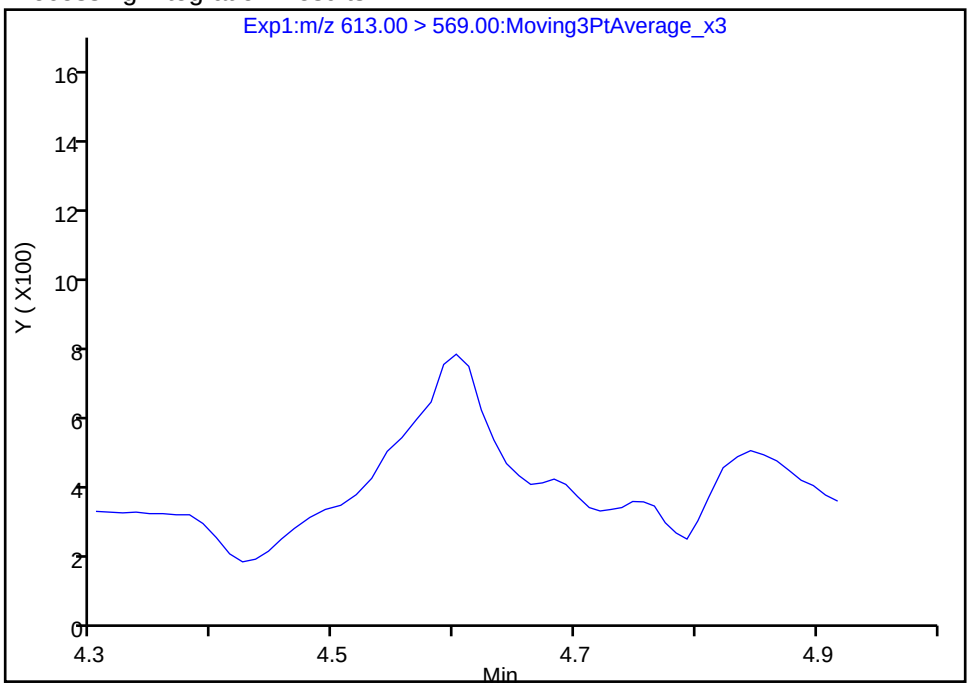
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A10.d				
Injection Date:	26-Feb-2021 14:00:57	Instrument ID:	LC812		
Lims ID:	480-181249-A-2-A	Lab Sample ID:	200-181249-2		
Client ID:	SB-12C (55-56)				
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

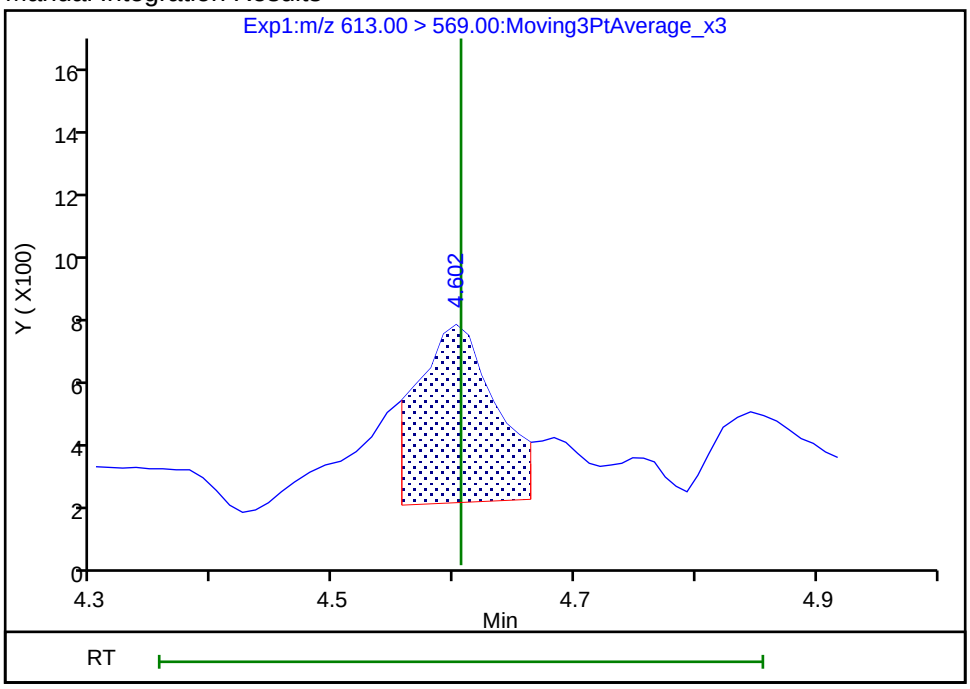
Not Detected
Expected RT: 4.61

Processing Integration Results



Manual Integration Results

RT: 4.60
Area: 2282
Amount: 0.005295
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:46:38
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

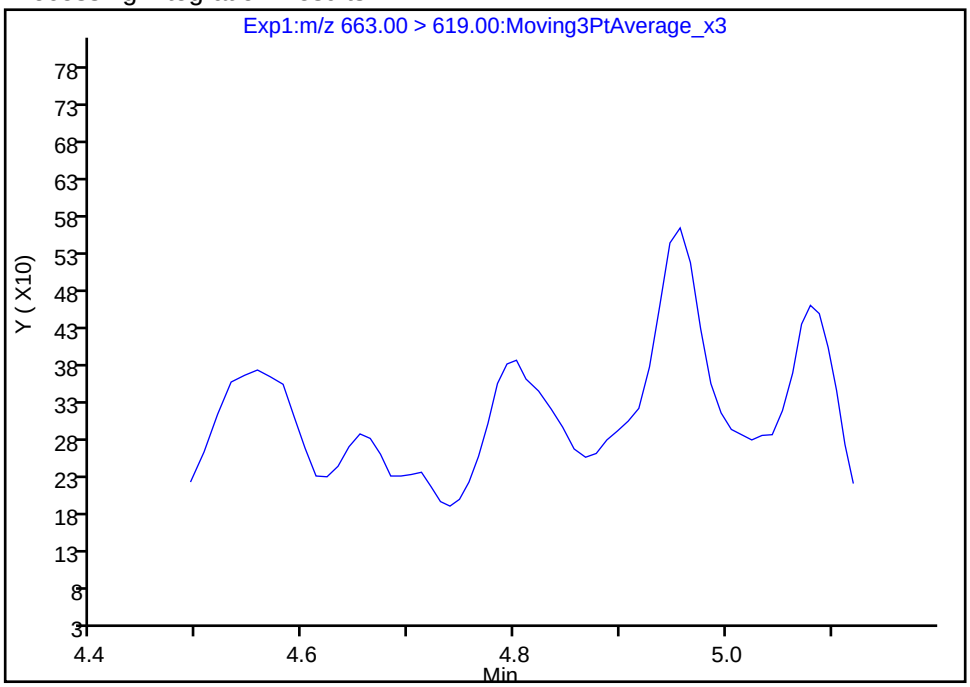
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A10.d				
Injection Date:	26-Feb-2021 14:00:57	Instrument ID:	LC812		
Lims ID:	480-181249-A-2-A	Lab Sample ID:	200-181249-2		
Client ID:	SB-12C (55-56)				
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

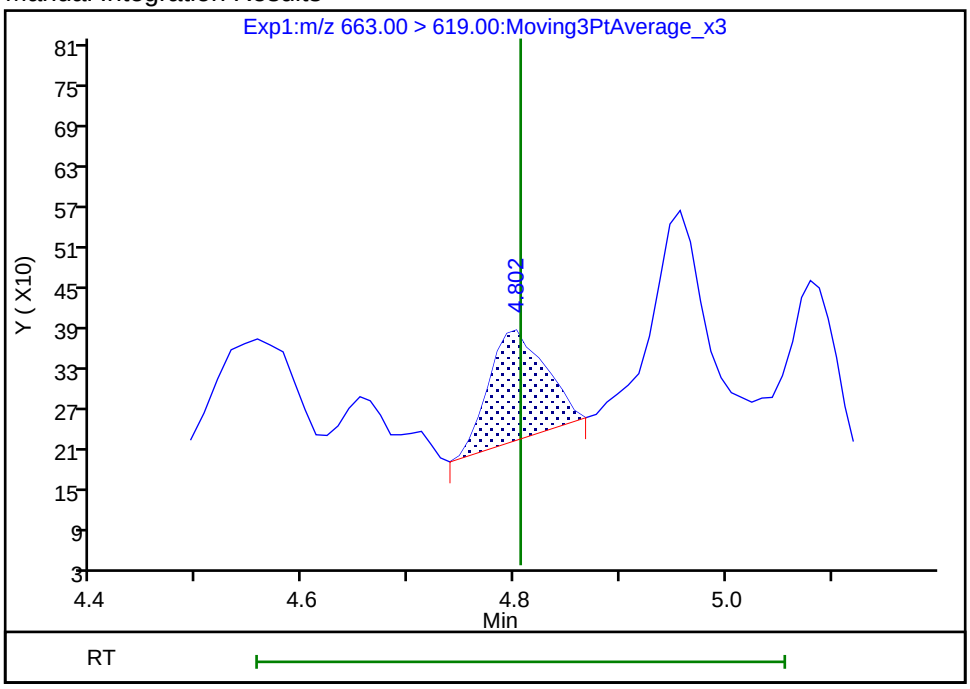
Not Detected
Expected RT: 4.81

Processing Integration Results



Manual Integration Results

RT: 4.80
Area: 604
Amount: 0.001727
Amount Units: ng/ml



Reviewer: deannd, 01-Mar-2021 10:41:48
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

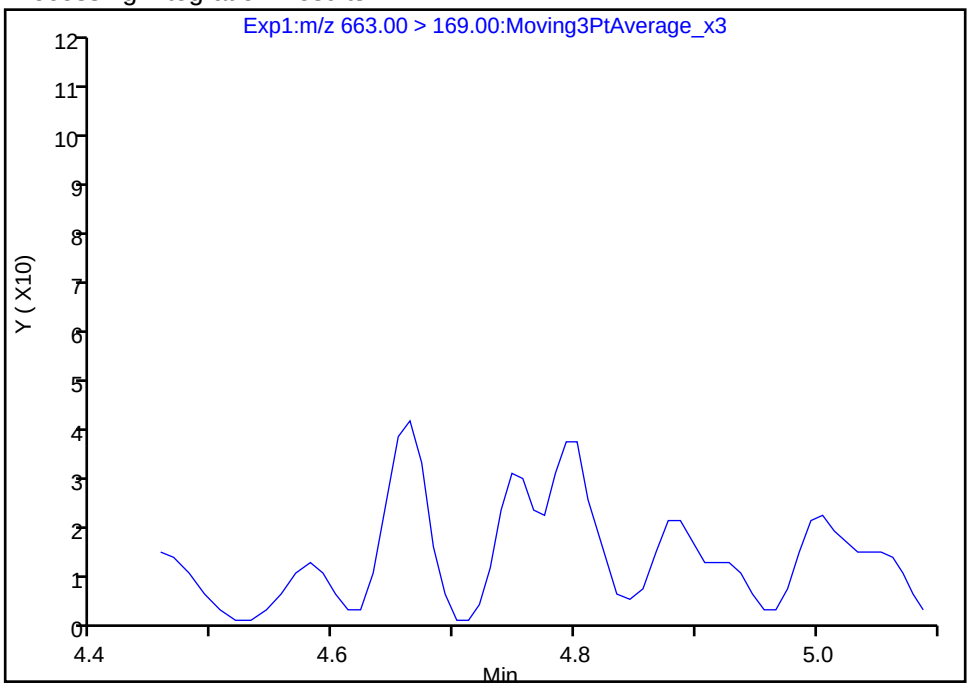
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A10.d				
Injection Date:	26-Feb-2021 14:00:57	Instrument ID:	LC812		
Lims ID:	480-181249-A-2-A	Lab Sample ID:	200-181249-2		
Client ID:	SB-12C (55-56)				
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

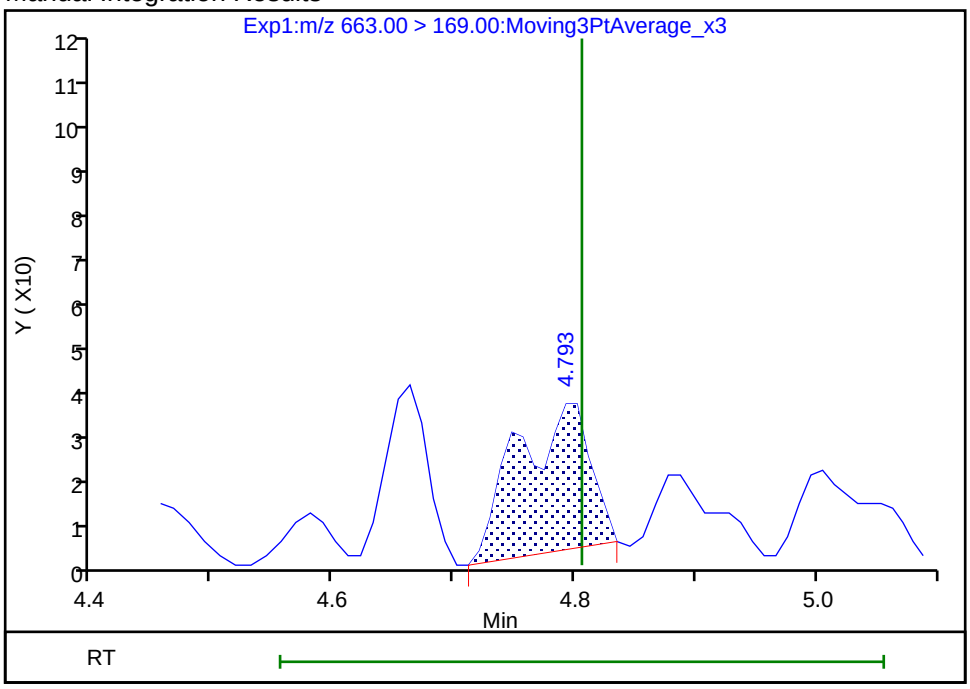
Not Detected
Expected RT: 4.81

Processing Integration Results



Manual Integration Results

RT: 4.79
Area: 129
Amount: 0.001727
Amount Units: ng/ml



Reviewer: deannd, 01-Mar-2021 10:41:52
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

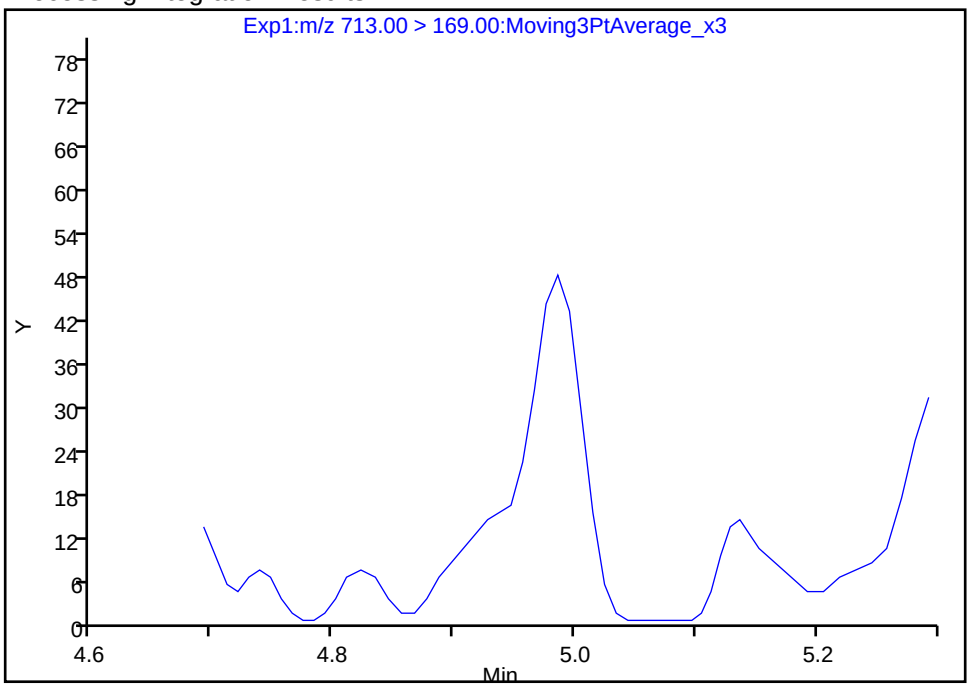
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A10.d				
Injection Date:	26-Feb-2021 14:00:57	Instrument ID:	LC812		
Lims ID:	480-181249-A-2-A	Lab Sample ID:	200-181249-2		
Client ID:	SB-12C (55-56)				
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

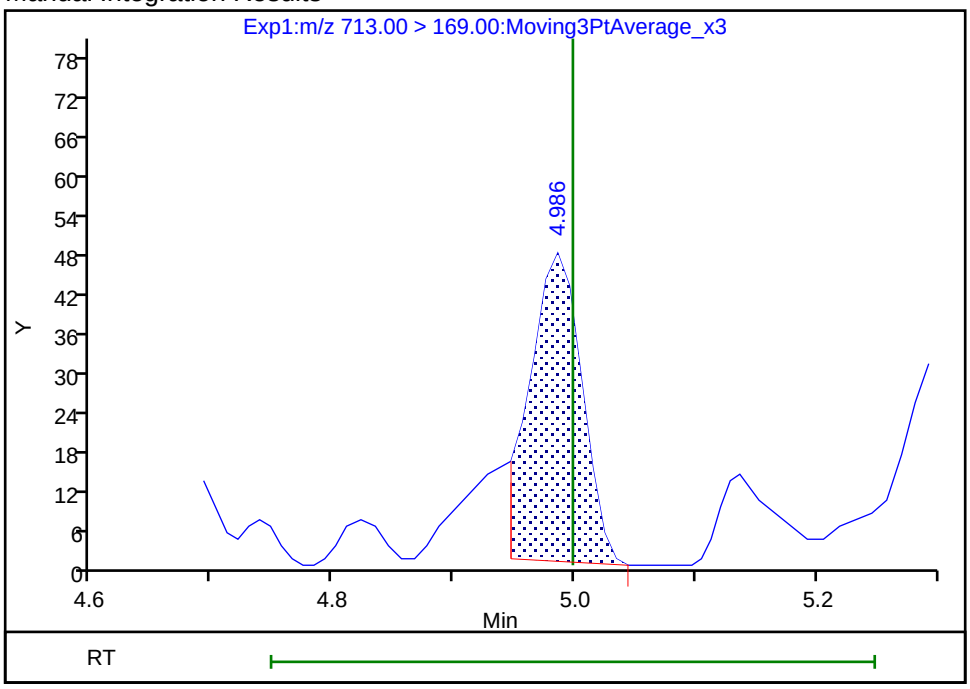
Not Detected
Expected RT: 5.00

Processing Integration Results



Manual Integration Results

RT: 4.99
Area: 140
Amount: 0.003073
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:46:54
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

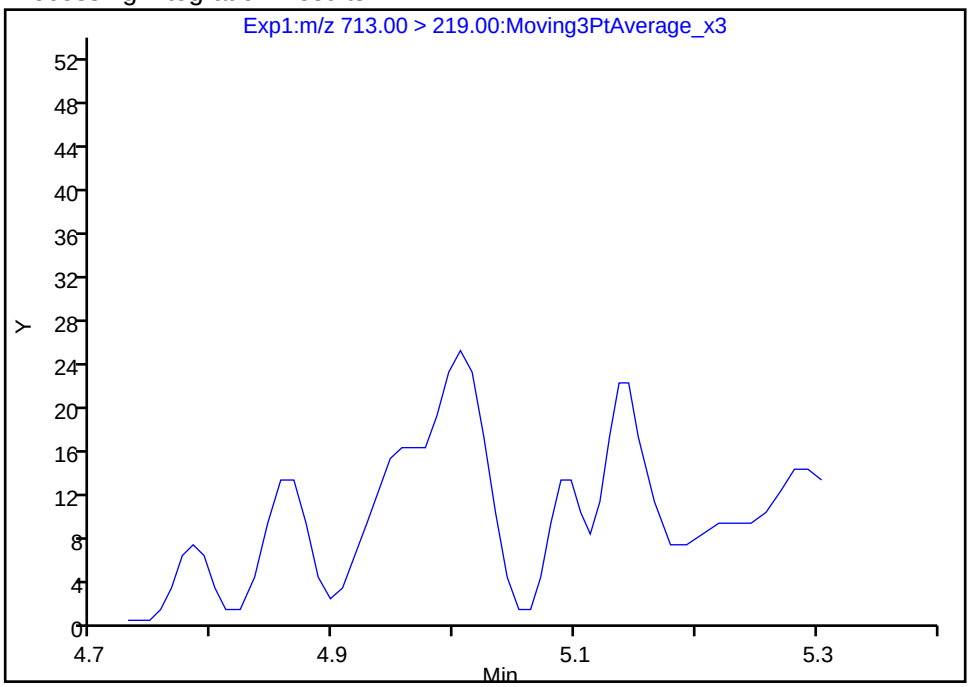
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A10.d				
Injection Date:	26-Feb-2021 14:00:57	Instrument ID:	LC812		
Lims ID:	480-181249-A-2-A	Lab Sample ID:	200-181249-2		
Client ID:	SB-12C (55-56)				
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

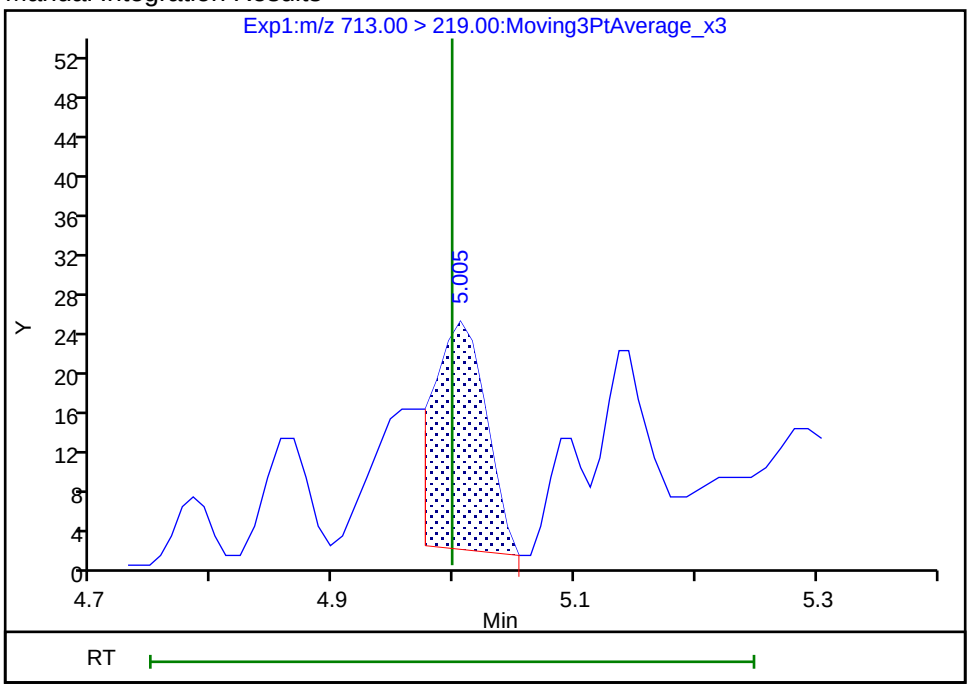
Not Detected
Expected RT: 5.00

Processing Integration Results



Manual Integration Results

RT: 5.01
Area: 68
Amount: 0.003073
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:46:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

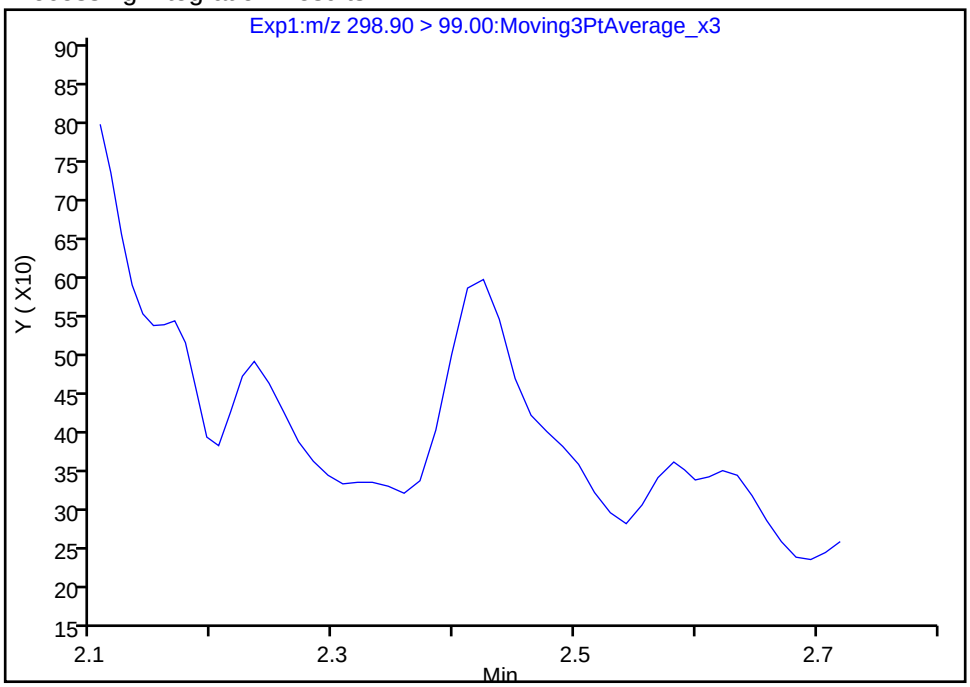
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A10.d				
Injection Date:	26-Feb-2021 14:00:57	Instrument ID:	LC812		
Lims ID:	480-181249-A-2-A	Lab Sample ID:	200-181249-2		
Client ID:	SB-12C (55-56)				
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

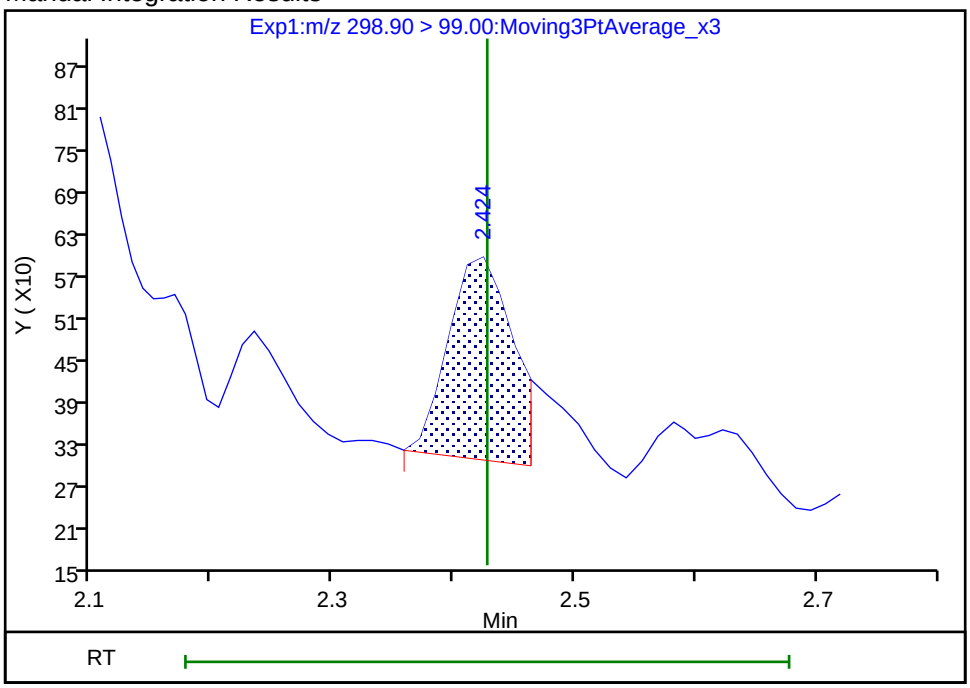
Not Detected
Expected RT: 2.43

Processing Integration Results



Manual Integration Results

RT: 2.42
Area: 1040
Amount: 0.002564
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:43:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

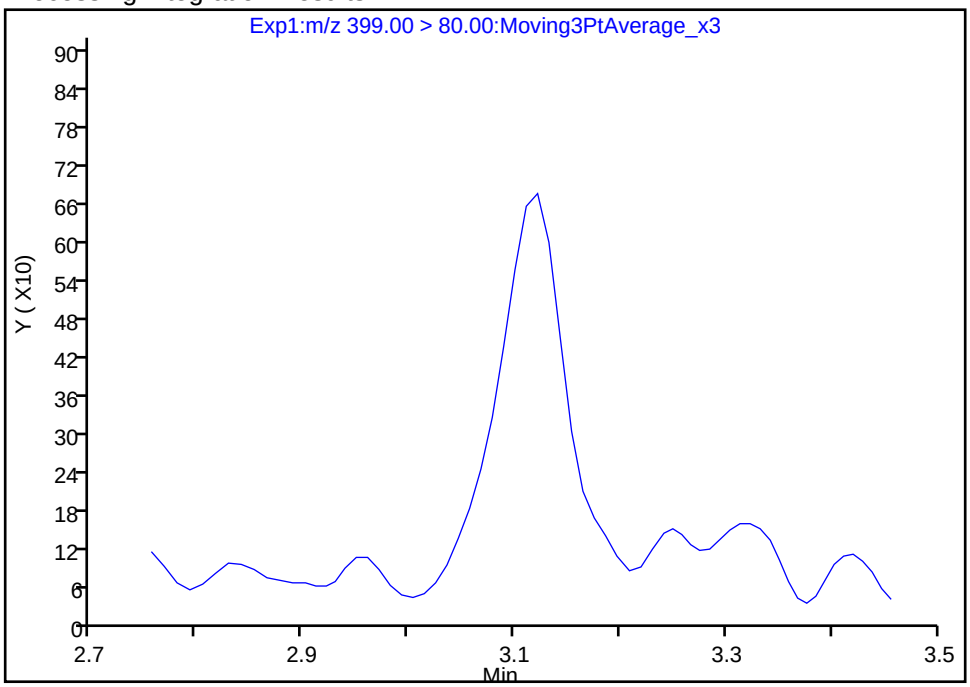
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A10.d				
Injection Date:	26-Feb-2021 14:00:57	Instrument ID:	LC812		
Lims ID:	480-181249-A-2-A	Lab Sample ID:	200-181249-2		
Client ID:	SB-12C (55-56)				
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

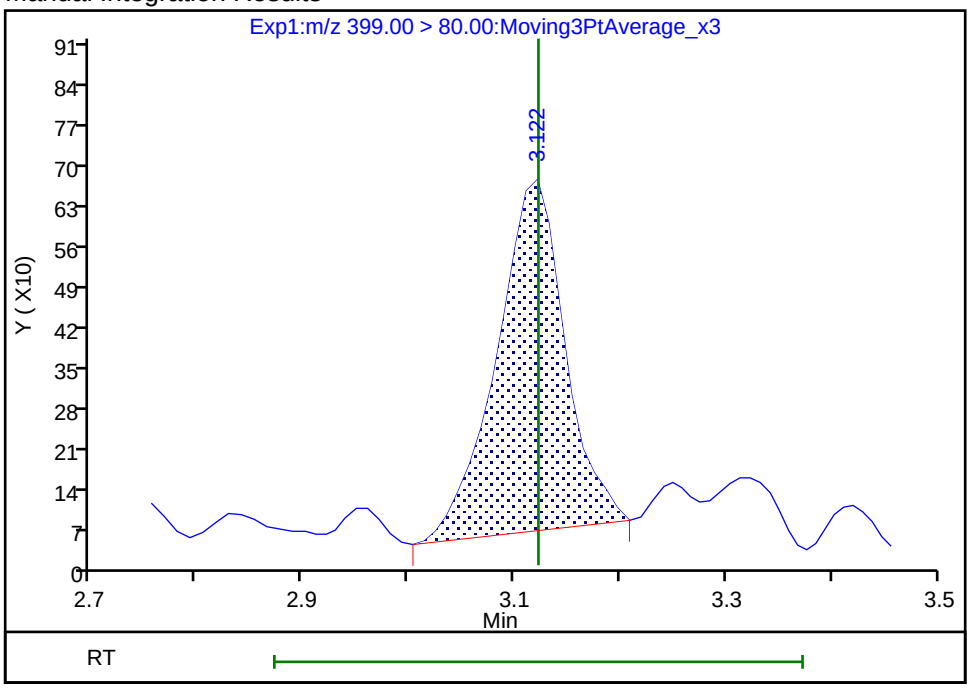
Not Detected
Expected RT: 3.12

Processing Integration Results



Manual Integration Results

RT: 3.12
Area: 2744
Amount: 0.004868
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:43:51
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

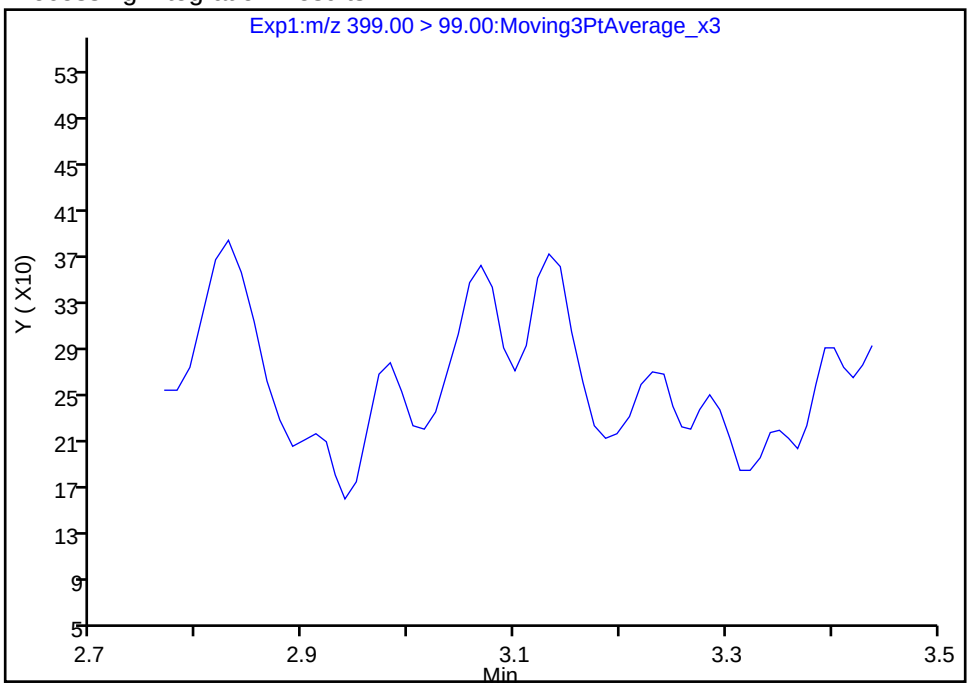
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A10.d				
Injection Date:	26-Feb-2021 14:00:57	Instrument ID:	LC812		
Lims ID:	480-181249-A-2-A	Lab Sample ID:	200-181249-2		
Client ID:	SB-12C (55-56)				
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

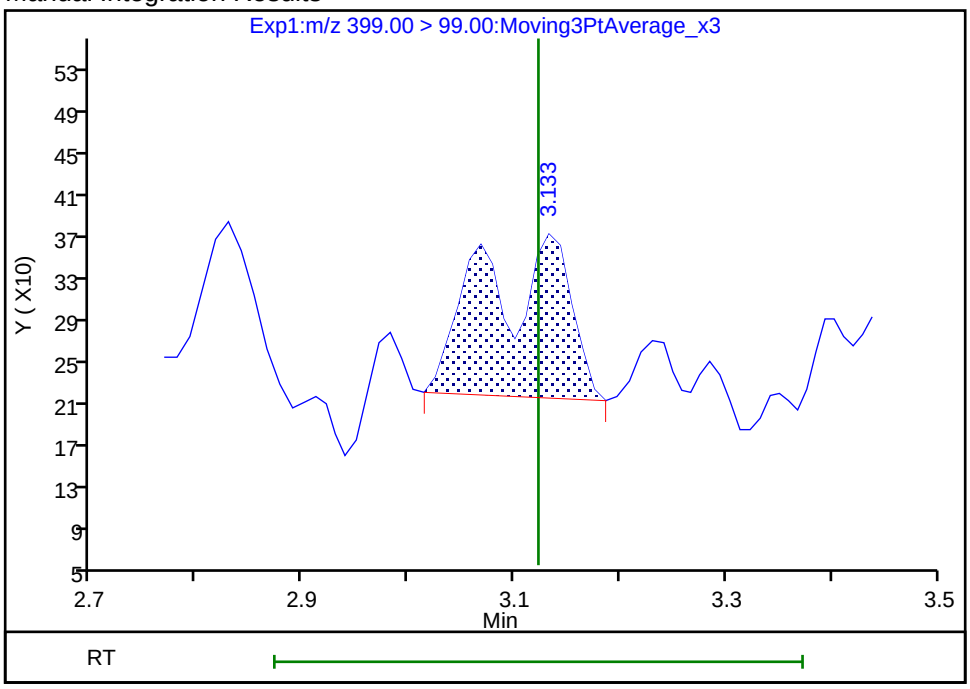
Not Detected
Expected RT: 3.12

Processing Integration Results



Manual Integration Results

RT: 3.13
Area: 870
Amount: 0.004868
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:43:55
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

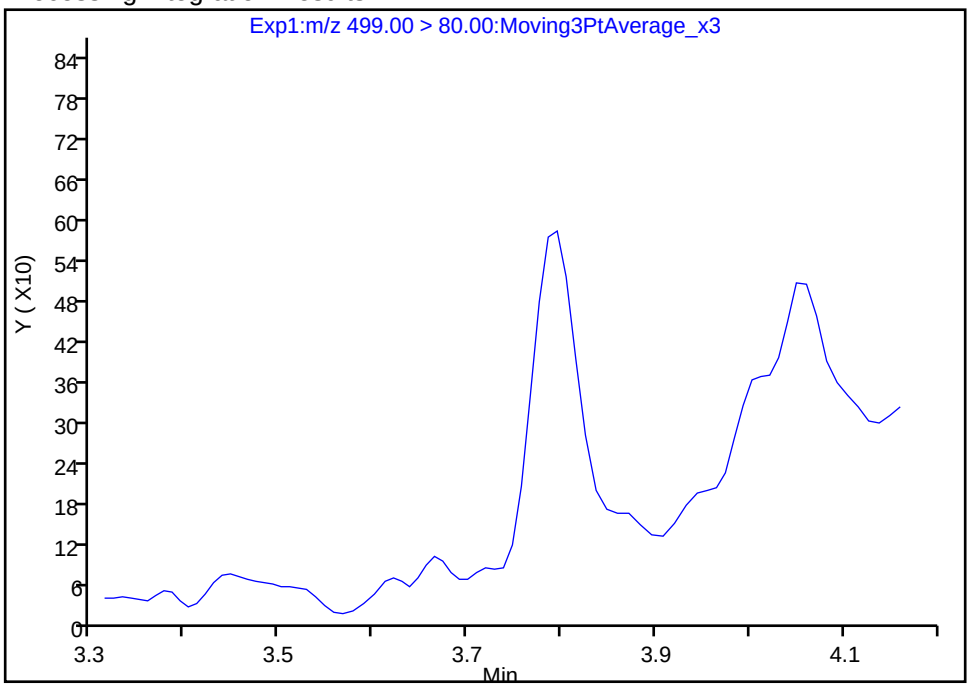
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A10.d				
Injection Date:	26-Feb-2021 14:00:57	Instrument ID:	LC812		
Lims ID:	480-181249-A-2-A	Lab Sample ID:	200-181249-2		
Client ID:	SB-12C (55-56)				
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

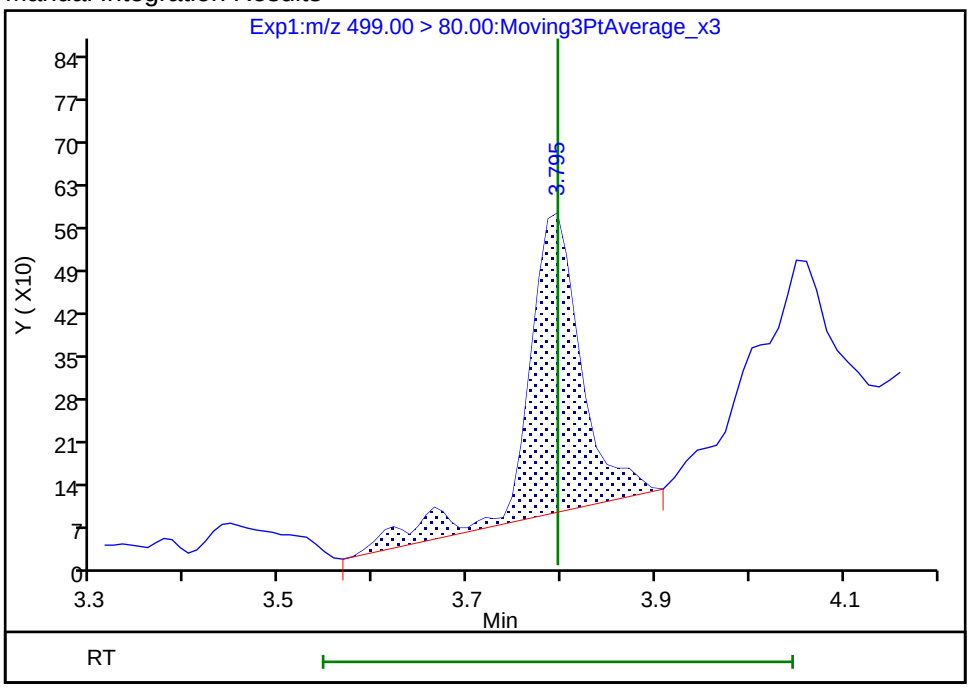
Not Detected
Expected RT: 3.80

Processing Integration Results



Manual Integration Results

RT: 3.80
Area: 1981
Amount: 0.005082
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:44:46
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

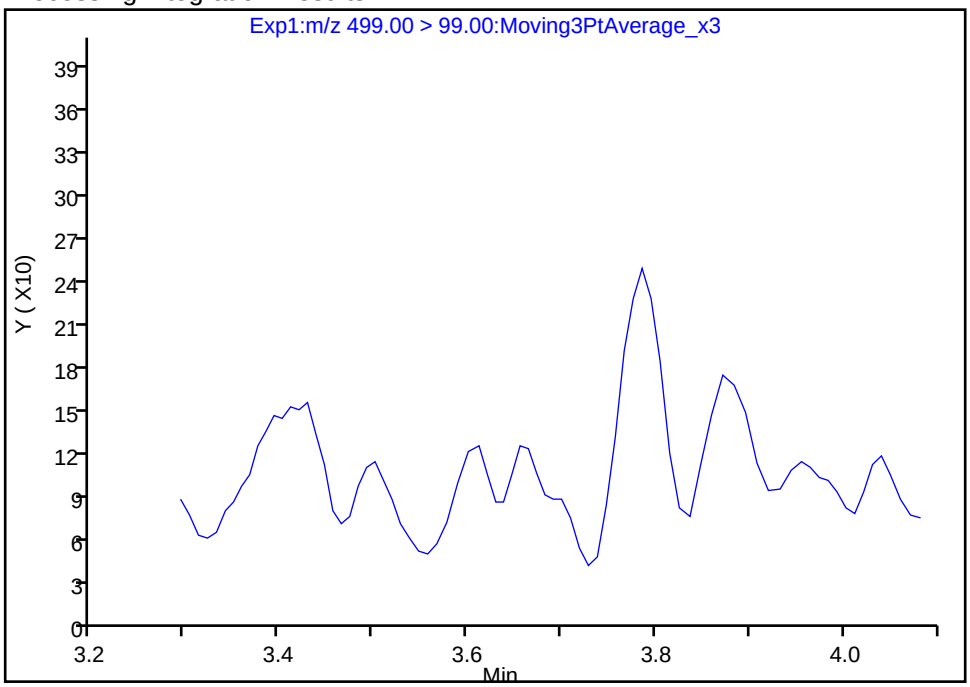
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A10.d				
Injection Date:	26-Feb-2021 14:00:57	Instrument ID:	LC812		
Lims ID:	480-181249-A-2-A	Lab Sample ID:	200-181249-2		
Client ID:	SB-12C (55-56)				
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

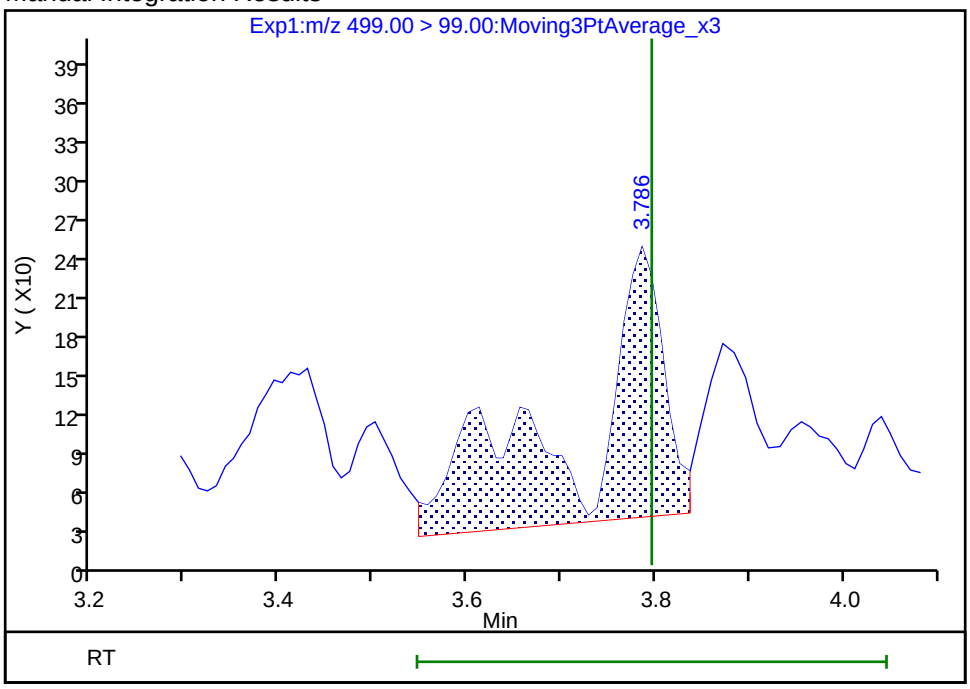
Processing Integration Results

Not Detected
Expected RT: 3.80



Manual Integration Results

RT: 3.79
Area: 1299
Amount: 0.005082
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:45:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

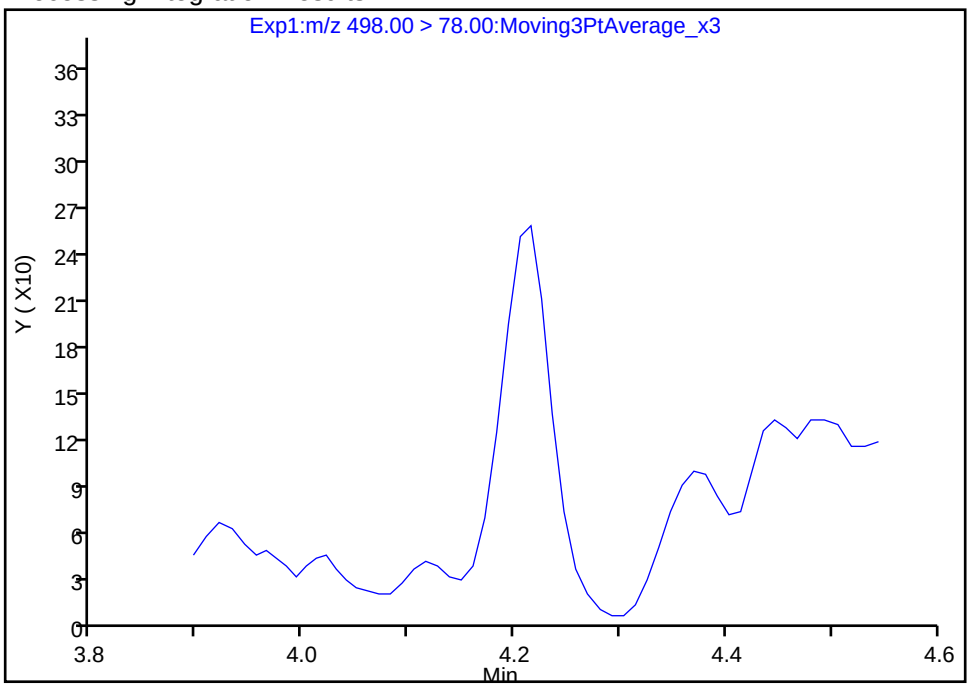
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A10.d				
Injection Date:	26-Feb-2021 14:00:57	Instrument ID:	LC812		
Lims ID:	480-181249-A-2-A	Lab Sample ID:	200-181249-2		
Client ID:	SB-12C (55-56)				
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

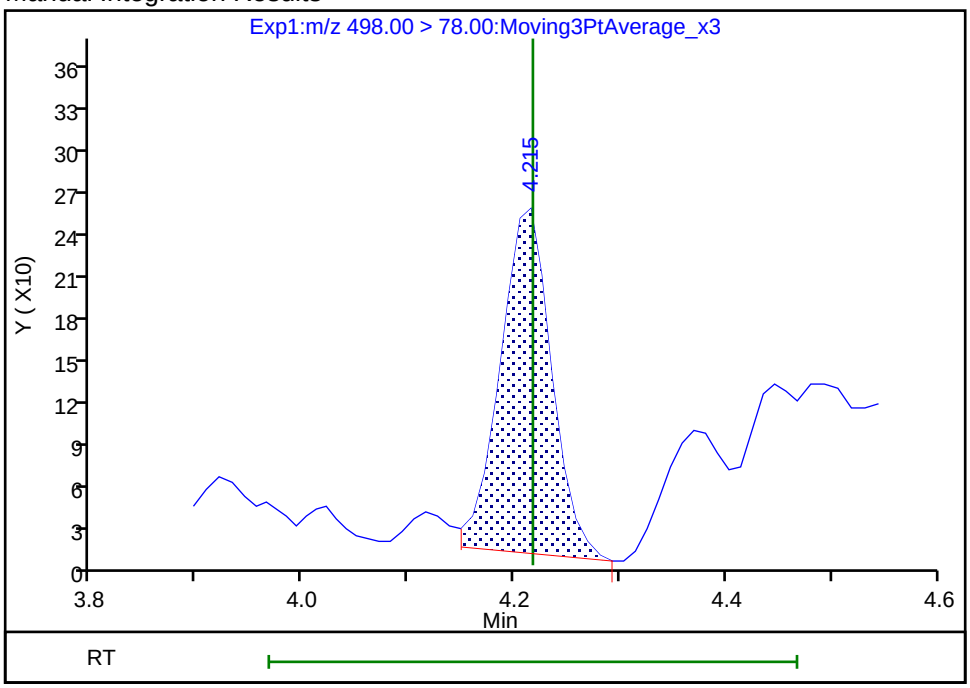
Not Detected
Expected RT: 4.22

Processing Integration Results



Manual Integration Results

RT: 4.22
Area: 824
Amount: 0.001283
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:45:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

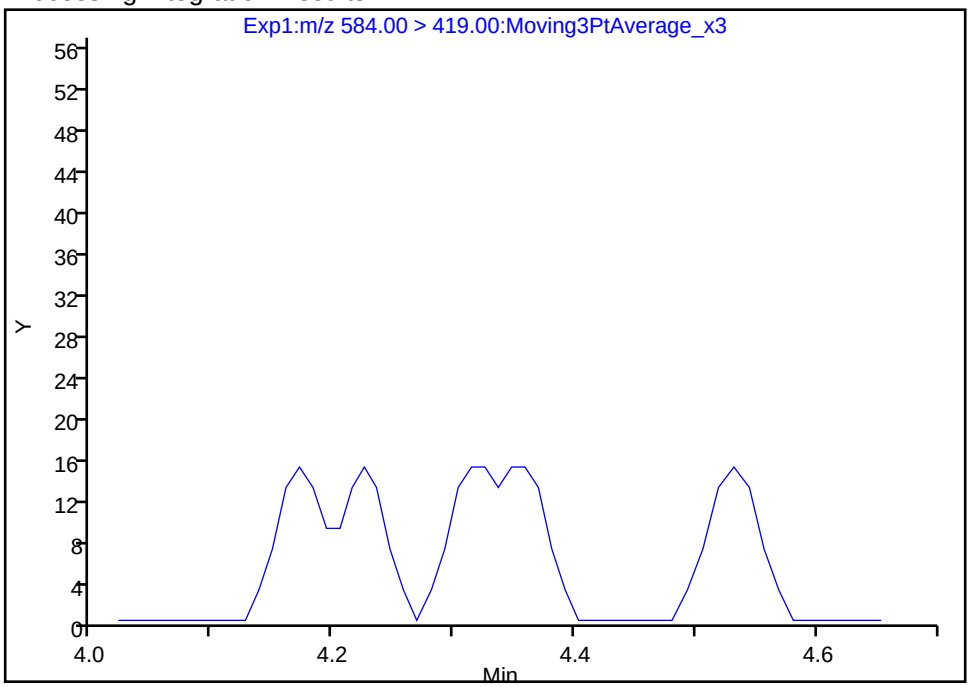
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A10.d				
Injection Date:	26-Feb-2021 14:00:57	Instrument ID:	LC812		
Lims ID:	480-181249-A-2-A	Lab Sample ID:	200-181249-2		
Client ID:	SB-12C (55-56)				
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

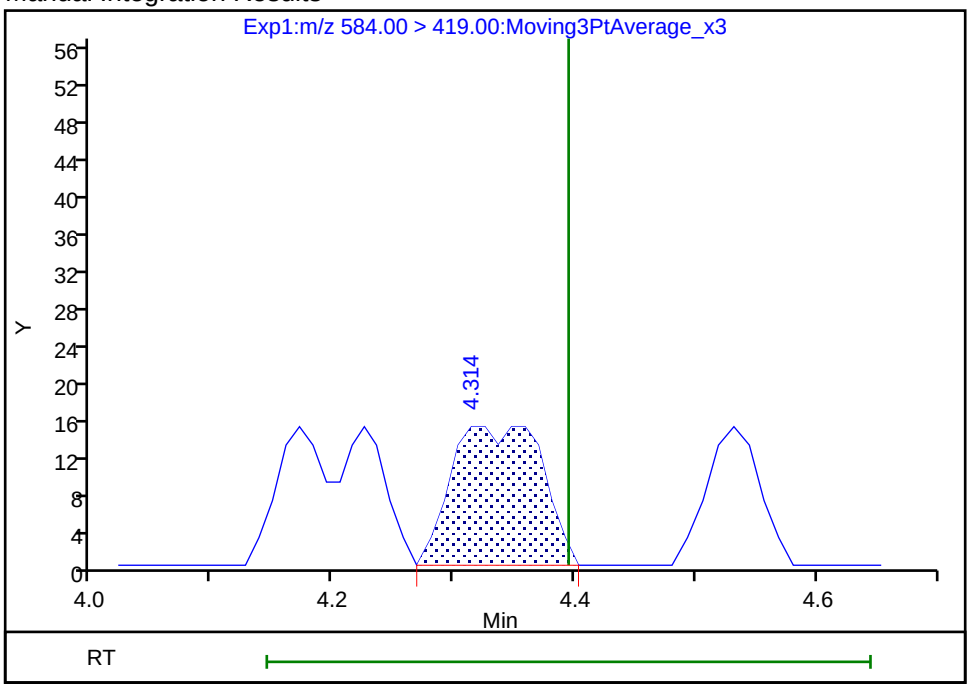
Not Detected
Expected RT: 4.39

Processing Integration Results



Manual Integration Results

RT: 4.31
Area: 79
Amount: 0.002644
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:46:13
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

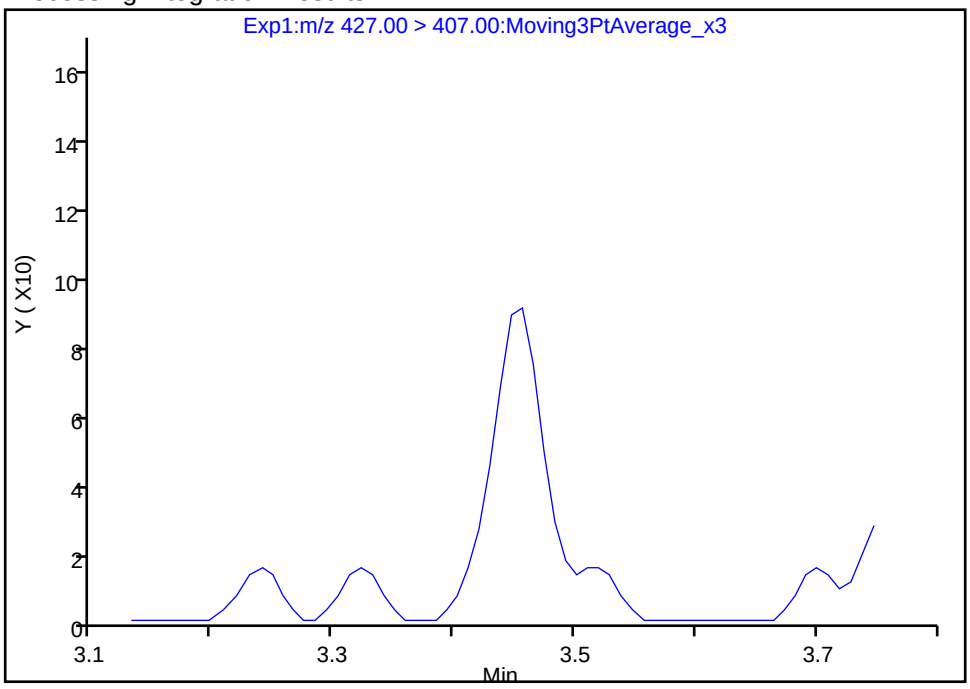
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A10.d				
Injection Date:	26-Feb-2021 14:00:57	Instrument ID:	LC812		
Lims ID:	480-181249-A-2-A	Lab Sample ID:	200-181249-2		
Client ID:	SB-12C (55-56)				
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

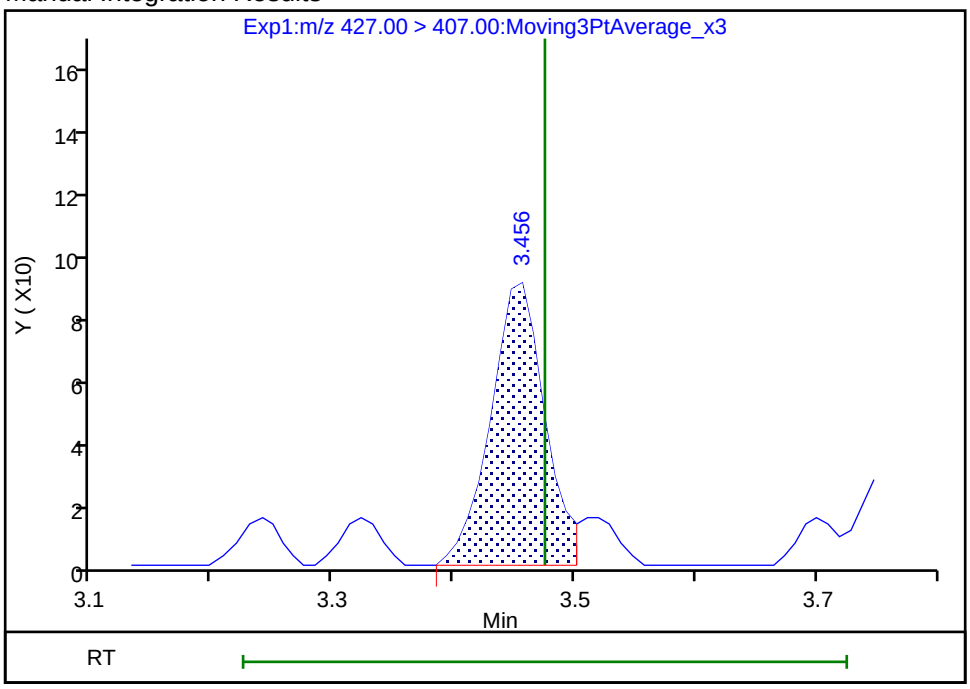
Not Detected
Expected RT: 3.48

Processing Integration Results



Manual Integration Results

RT: 3.46
Area: 275
Amount: 0.004455
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:44:19
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

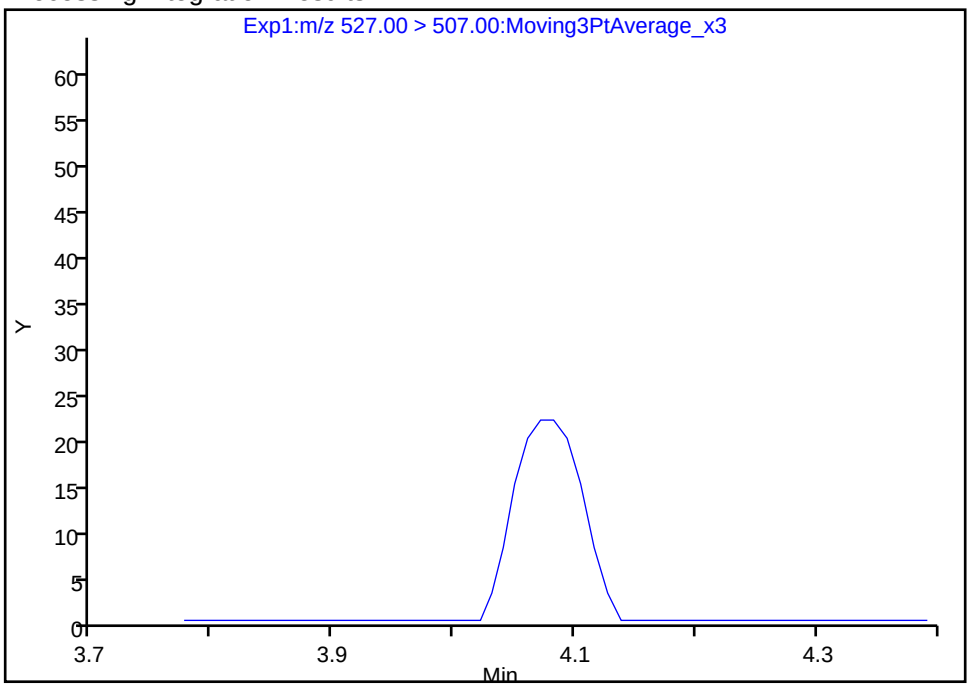
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A10.d				
Injection Date:	26-Feb-2021 14:00:57	Instrument ID:	LC812		
Lims ID:	480-181249-A-2-A	Lab Sample ID:	200-181249-2		
Client ID:	SB-12C (55-56)				
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

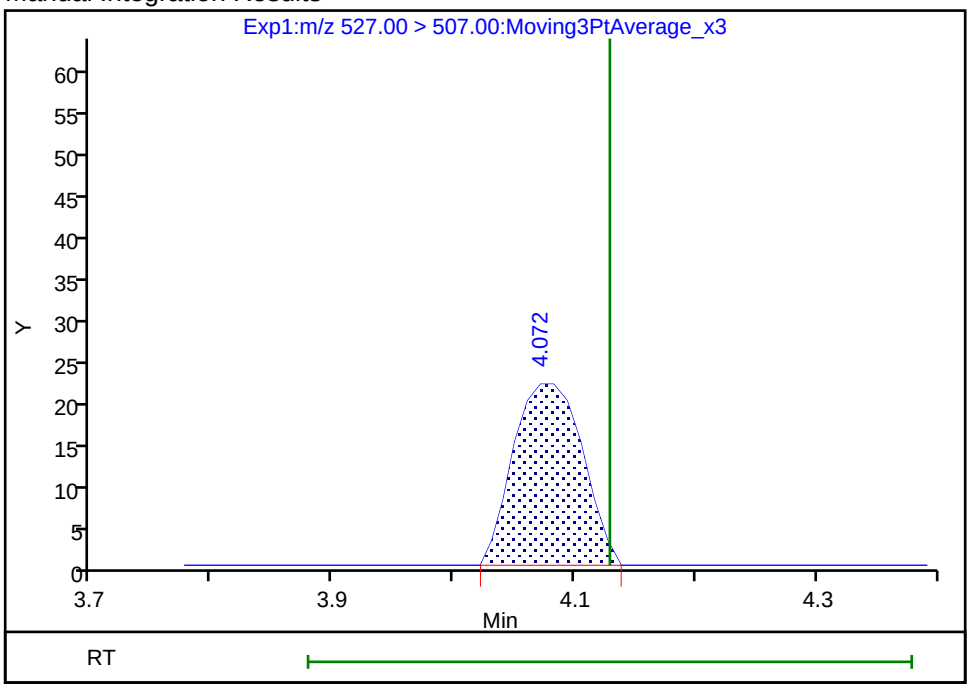
Not Detected
Expected RT: 4.13

Processing Integration Results



Manual Integration Results

RT: 4.07
Area: 87
Amount: 0.002082
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:45:49
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

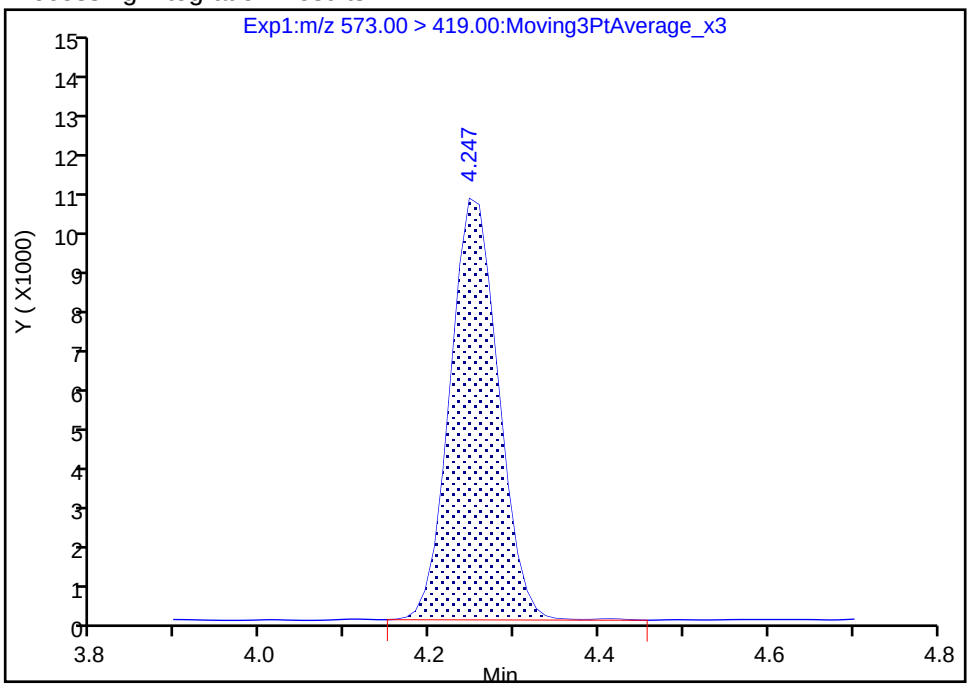
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A10.d				
Injection Date:	26-Feb-2021 14:00:57	Instrument ID:	LC812		
Lims ID:	480-181249-A-2-A	Lab Sample ID:	200-181249-2		
Client ID:	SB-12C (55-56)				
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

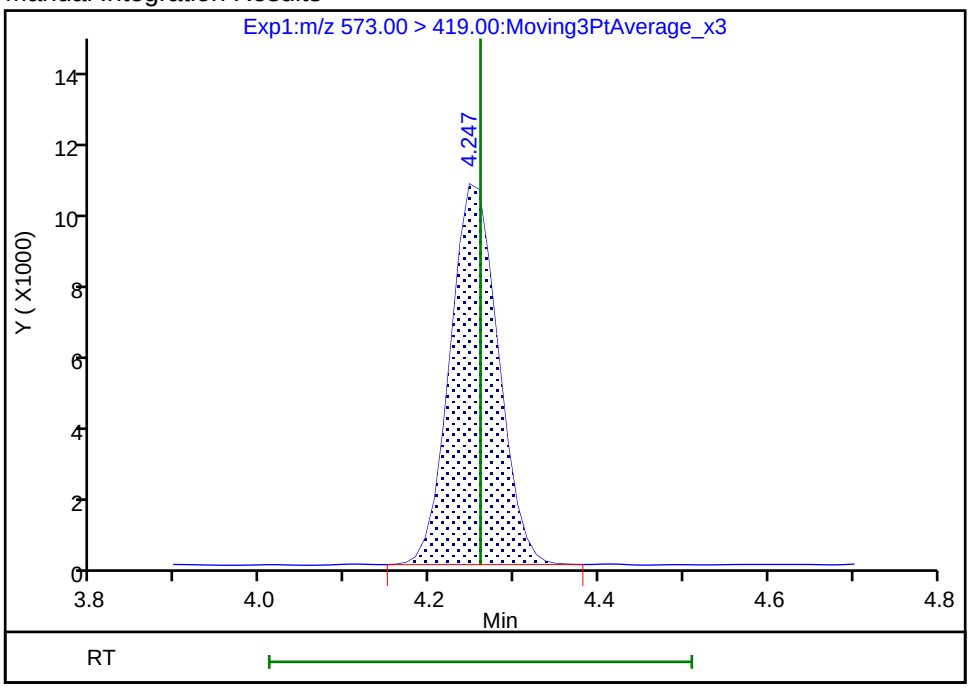
Processing Integration Results

RT: 4.25
Area: 41046
Amount: 0.909493
Amount Units: ng/ml



Manual Integration Results

RT: 4.25
Area: 40887
Amount: 0.905970
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:43:07
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12A (4-6) Lab Sample ID: 480-181249-3

Matrix: Solid Lab File ID: PA210226A11.d

Analysis Method: 537 (modified) Date Collected: 02/12/2021 13:45

Extraction Method: SHAKE Date Extracted: 02/25/2021 15:08

Sample wt/vol: 5.28(g) Date Analyzed: 02/26/2021 14:09

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 19.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 164334 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.59	U	0.59	0.22
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.24	U	0.24	0.021
307-24-4	Perfluorohexanoic acid (PFHxA)	0.24	U	0.24	0.028
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.24	U	0.24	0.027
335-67-1	Perfluorooctanoic acid (PFOA)	0.046	J	0.24	0.017
375-95-1	Perfluorononanoic acid (PFNA)	0.24	U	0.24	0.024
335-76-2	Perfluorodecanoic acid (PFDA)	0.24	U	0.24	0.025
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.24	U	0.24	0.028
307-55-1	Perfluorododecanoic acid (PFDoA)	0.24	U	0.24	0.018
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.24	U	0.24	0.015
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.24	U	0.24	0.022
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.24	U	0.24	0.010
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.24	U	0.24	0.018
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.24	U	0.24	0.018
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.28		0.24	0.079
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.24	U	0.24	0.022
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.013	J	0.24	0.010
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.37	U	2.37	0.040
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.18	J	2.37	0.035
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	2.37	U	2.37	0.026
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	2.37	U	2.37	0.034

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12A (4-6) Lab Sample ID: 480-181249-3

Matrix: Solid Lab File ID: PA210226A11.d

Analysis Method: 537 (modified) Date Collected: 02/12/2021 13:45

Extraction Method: SHAKE Date Extracted: 02/25/2021 15:08

Sample wt/vol: 5.28(g) Date Analyzed: 02/26/2021 14:09

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 19.9 GPC Cleanup:(Y/N) N

Analysis Batch No.: 164334 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	90		50-150
STL01892	13C4 PFHpA	102		50-150
STL00990	13C4 PFOA	98		50-150
STL00991	13C4 PFOS	91		50-150
STL00995	13C5 PFNA	98		50-150
STL00992	13C4 PFBA	89		25-150
STL00993	13C2 PFHxA	107		50-150
STL00996	13C2 PFDA	105		50-150
STL00997	13C2 PFUnA	102		50-150
STL00998	13C2 PFDoA	88		50-150
STL01056	13C8 FOSA	86		25-150
STL01893	13C5 PFPeA	93		25-150
STL02116	13C2 PFTeDA	77		50-150
STL02118	d3-NMeFOSAA	78		50-150
STL02117	d5-NEtFOSAA	99		50-150
STL02279	M2-6:2 FTS	108		25-150
STL02280	M2-8:2 FTS	138		25-150
STL02337	13C3 PFBS	89		50-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A11.d
Lims ID: 480-181249-A-3-A
Client ID: SB-12A (4-6)
Sample Type: Client
Inject. Date: 26-Feb-2021 14:09:13 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 480-181249-A-3-A
Misc. Info.: 200-0044972-011 Plate: 1 Rack: 2
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 01-Mar-2021 10:52:47 Calib Date: 22-Dec-2020 13:29:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1604

First Level Reviewer: khanphomeea Date: 01-Mar-2021 09:56:55
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.082	2.082	0.0	0.598	1098085	1.11		88.8	6029	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.082	2.082	0.0	1.000	77489	0.0880			12.2	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.400	2.401	-0.001	0.689	831816	1.16		93.1	2101	
D 47 13C3 PFBS										M
301.90 > 80.00	2.426	2.427	-0.001	0.697	977827	1.04		89.4	71328	M
5 Perfluorobutanesulfonic acid										RM
298.90 > 80.00	2.426	2.427	-0.001	1.000	2139	0.002248	Target=2.21		1.0	R
298.90 > 99.00	2.374	2.427	-0.053	0.978	3032		0.71(1.11-3.32)		1.8	M
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.722	2.723	-0.001	0.781	139090	1.77		152	50.1	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.673	2.723	-0.050	0.982	3156	0.0144			1.5	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.758	2.759	-0.001	0.792	1005761	1.34		107	3041	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.758	2.759	-0.001	1.000	8910	0.0101	Target=12.83		1.2	M
313.00 > 119.00	2.758	2.759	-0.001	1.000	624		14.28(6.42-19.25)		0.6	M
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.868	2.869	-0.001	0.823	79430	0.6020		48.2	615	
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.912	2.869	0.043	1.015	2049	0.0233			0.5	M
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.121	3.123	-0.002	1.000	5361	0.007199	Target=4.15		3.8	M
399.00 > 99.00	3.111	3.123	-0.012	0.997	2048		2.62(2.08-6.23)		1.4	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 11 18O2 PFHxS										
403.00 > 84.00	3.121	3.123	-0.002	0.896	747198	1.07		90.2	2333	
D 9 13C4 PFHpA										
367.00 > 322.00	3.132	3.133	-0.001	0.899	911200	1.27		102	3111	
10 Perfluoroheptanoic acid										RM
363.00 > 319.00	3.121	3.133	-0.012	0.997	4989	0.006266	Target=3.66		0.6	RM
363.00 > 169.00	3.132	3.133	-0.001	1.000	865		5.77(1.83-5.49)		3.1	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.474	3.475	-0.001	0.997	112319	1.28		108	156	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.474	3.475	-0.001	1.000	334	0.003175			6.1	M
D 14 13C4 PFOA										
417.00 > 372.00	3.483	3.484	-0.001	1.000	896751	1.23		98.4	3091	
* 62 13C2 PFOA										
415.00 > 370.00	3.483	3.484	-0.001		920486	1.25			1482	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.483	3.493	-0.010	1.000	15189	0.0195	Target=2.58		2.9	M
413.00 > 169.00	3.483	3.493	-0.010	1.000	5774		2.63(1.29-3.87)		10.8	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.804	3.796	0.008	1.000	58453	0.1163	Target=5.65		62.0	M
499.00 > 99.00	3.794	3.796	-0.002	0.997	14124		4.14(2.82-8.47)		18.0	M
D 18 13C4 PFOS										
503.00 > 80.00	3.804	3.796	0.008	1.092	522165	1.09		90.9	950	
D 19 13C5 PFNA										
468.00 > 423.00	3.814	3.816	-0.002	1.095	789336	1.23		98.2	2595	
D 23 13C2 PFDA										
515.00 > 470.00	4.115	4.118	-0.003	1.181	807001	1.31		105	3190	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.126	4.129	-0.003	1.185	149497	1.66		138	255	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.104	4.129	-0.025	0.995	91	0.001072			1.7	M
D 21 13C8 FOSA										
506.00 > 78.00	4.215	4.207	0.008	1.210	965929	1.07		85.5	2026	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.225	4.217	0.008	1.002	4147	0.005355			10.4	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.257	4.260	-0.003	1.222	43609	0.9782		78.3	614	
D 30 13C2 PFUnA										
565.00 > 520.00	4.380	4.373	0.007	1.257	645000	1.28		102	3425	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.380	4.373	0.007	1.000	1770	0.003364	Target=8.12		1.2	M
563.00 > 169.00	4.391	4.373	0.018	1.003	347		5.10(4.06-12.18)		3.0	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.391	4.384	0.007	1.261	53470	1.24		99.3	493	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.402	4.395	0.007	1.003	2971	0.0750			27.8	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
66 11-Chloroeicosafluoro-3-oxaundec										M
631.00 > 451.00	4.467	4.473	-0.006	1.174	124	0.000213			3.5	M
D 36 13C2 PFDoA										
615.00 > 570.00	4.601	4.606	-0.005	1.321	584835	1.10		87.8	3052	
37 Perfluorododecanoic acid										RM
613.00 > 569.00	4.612	4.606	0.006	1.002	3104	0.006032	Target=6.91		1.1	RM
613.00 > 169.00	4.601	4.606	-0.005	1.000	100		31.04(3.45-10.36)		1.2	M
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.612	4.616	-0.004	1.118	32	0.000732			0.9	M
75 Perfluorododecanesulfonic acid (										RM
699.00 > 80.00	4.784	4.770	0.014	1.258	147	0.001337	Target=0.51		0.5	RM
699.00 > 99.00	4.775	4.770	0.005	1.255	86		1.71(0.26-0.77)		0.8	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.995	4.998	-0.003	1.434	377009	0.9564		76.5	1536	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.338	5.329	0.009	1.533	367544	0.8729		69.8	1781	
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.338	5.329	0.009	1.000	5048	0.003181	Target=3.84		2.5	
813.00 > 169.00	5.338	5.329	0.009	1.000	883		5.72(1.92-5.76)		12.1	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Report Date: 01-Mar-2021 10:53:16 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A11.d

Injection Date: 26-Feb-2021 14:09:13 Instrument ID: LC812

Lims ID: 480-181249-A-3-A Lab Sample ID: 200-181249-3

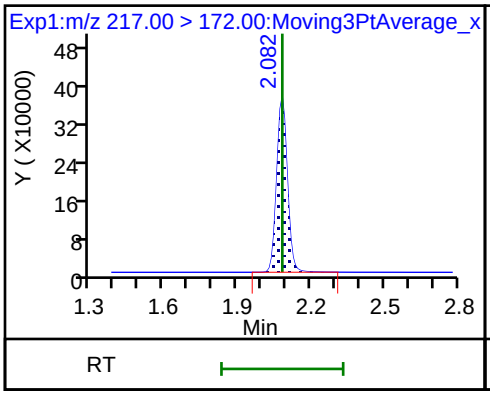
Client ID: SB-12A (4-6)

Operator ID: lc812tech ALS Bottle#: 11 Worklist Smp#: 11

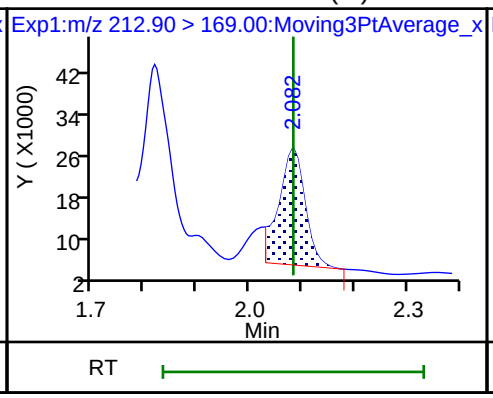
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

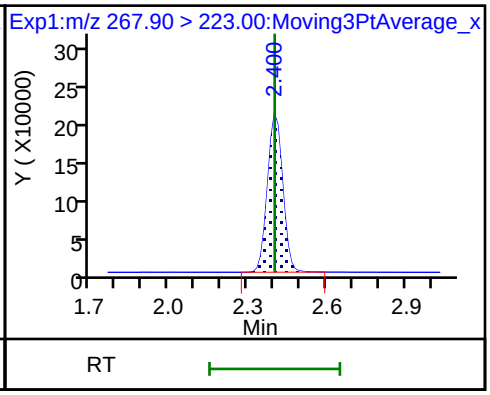
D 1 13C4 PFBA



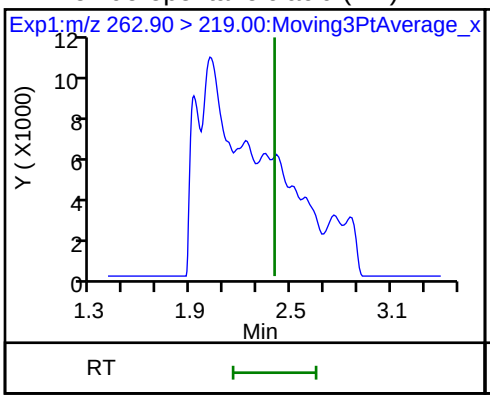
2 Perfluorobutanoic acid (M)



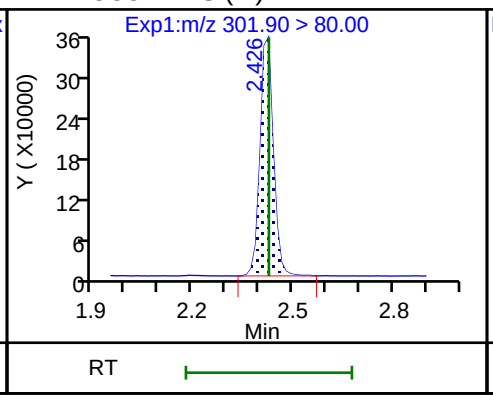
D 3 13C5 PFPeA



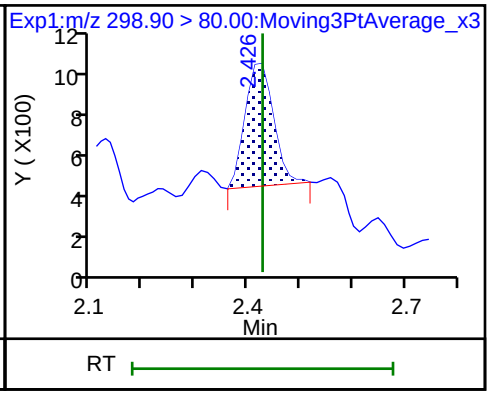
4 Perfluoropentanoic acid (ND)



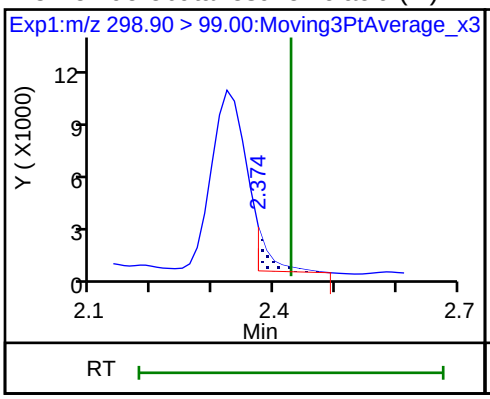
D 47 13C3 PFBS (M)



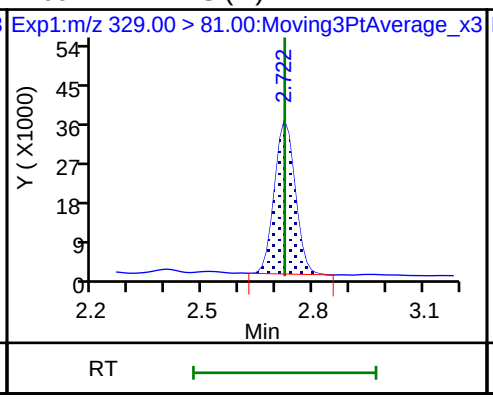
5 Perfluorobutanesulfonic acid



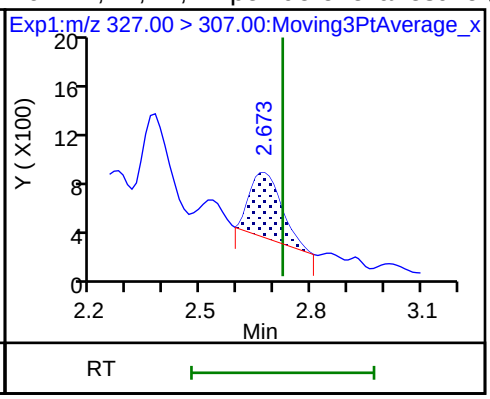
5 Perfluorobutanesulfonic acid (M)



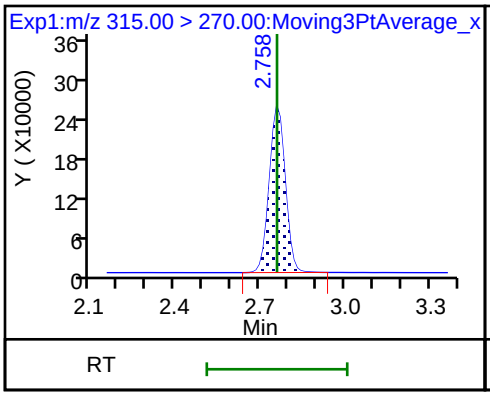
D 60 M2-4:2 FTS (M)



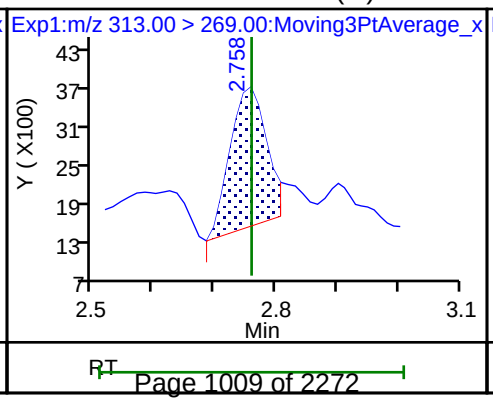
61 1H,1H,2H,2H-perfluorohexanesulfo (M)



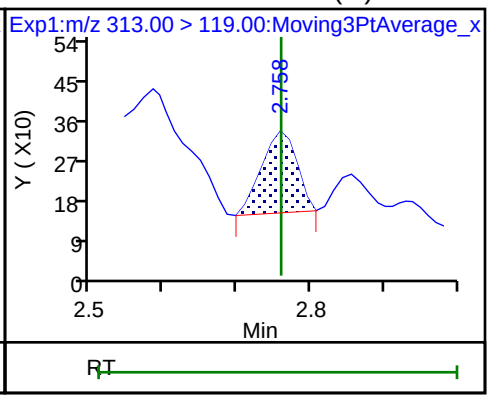
D 7 13C2 PFHxA



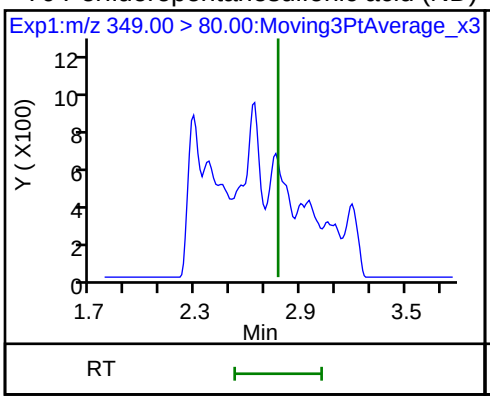
6 Perfluorohexanoic acid (M)



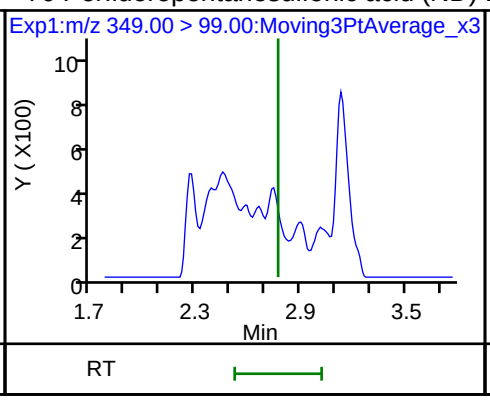
6 Perfluorohexanoic acid (M)



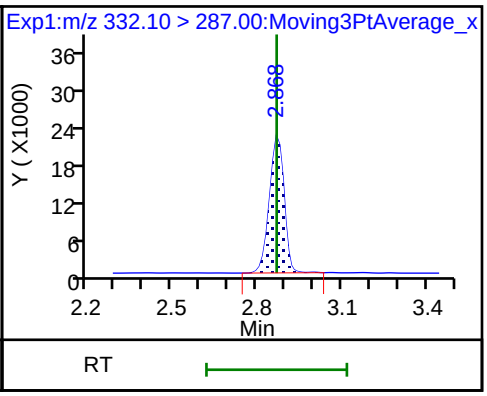
70 Perfluoropentanesulfonic acid (ND)



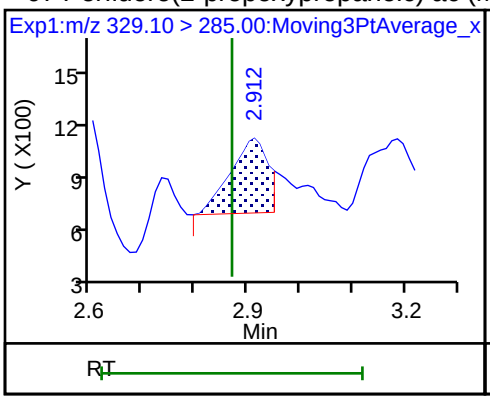
70 Perfluoropentanesulfonic acid (ND)



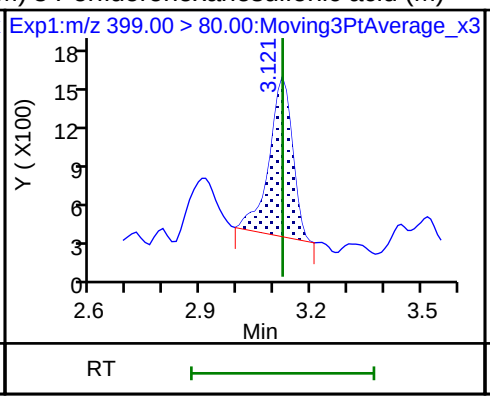
D 64 13C3 HFPO-DA



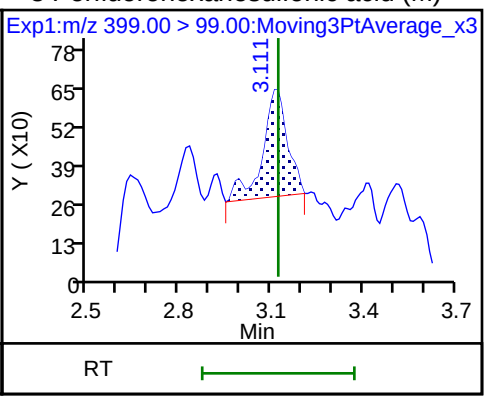
67 Perfluoro(2-propoxypropanoic) ac (M)



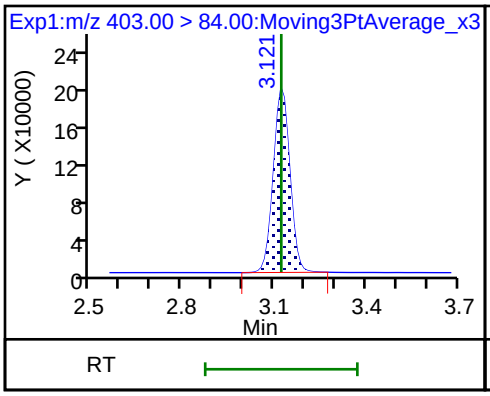
8 Perfluorohexanesulfonic acid (M)



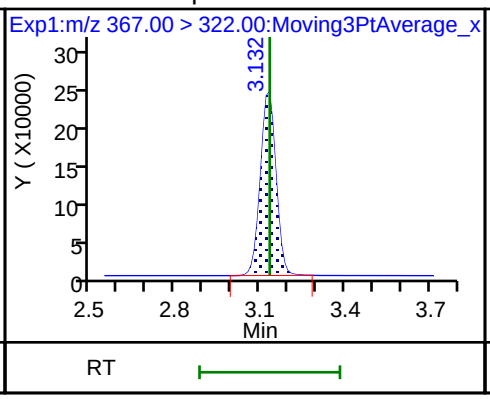
8 Perfluorohexanesulfonic acid (M)



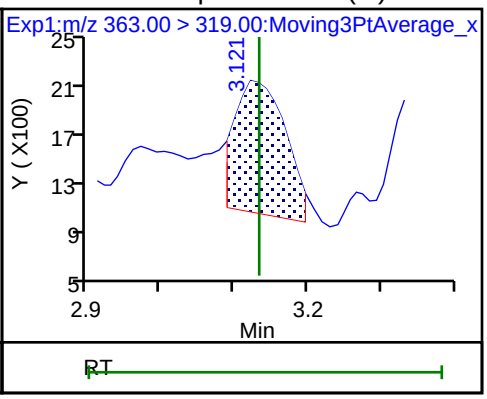
D 11 18O2 PFHxS



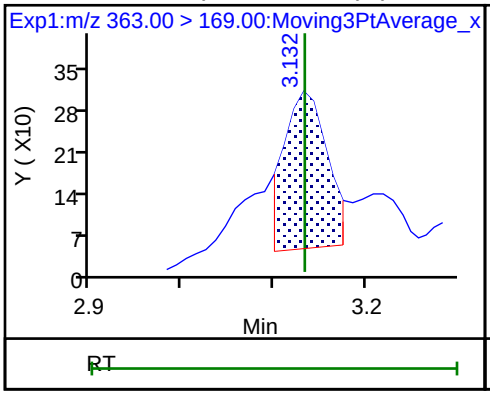
D 9 13C4 PFHpA



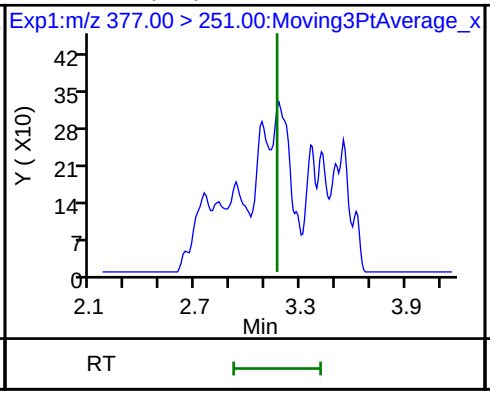
10 Perfluoroheptanoic acid (M)



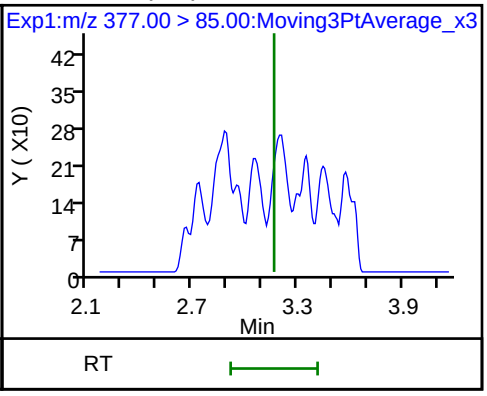
10 Perfluoroheptanoic acid (M)



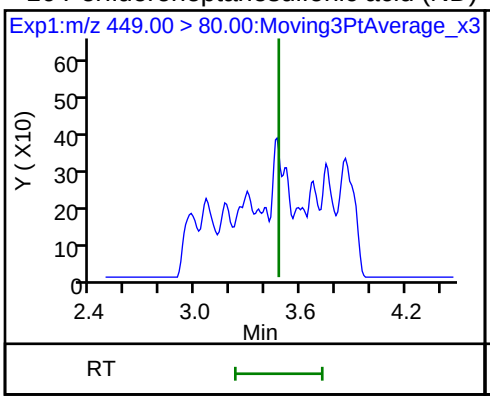
77 DONA (ND)



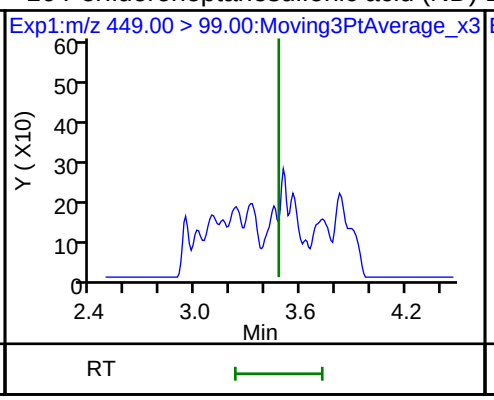
77 DONA (ND)

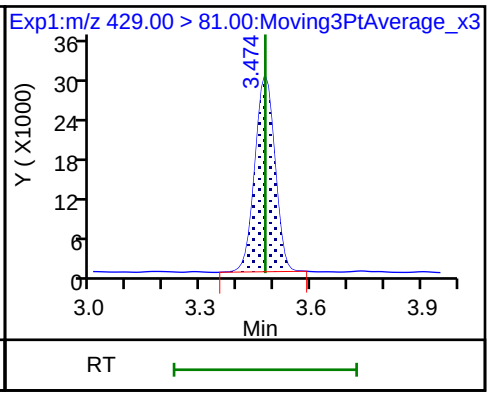


16 Perfluoroheptanesulfonic acid (ND)

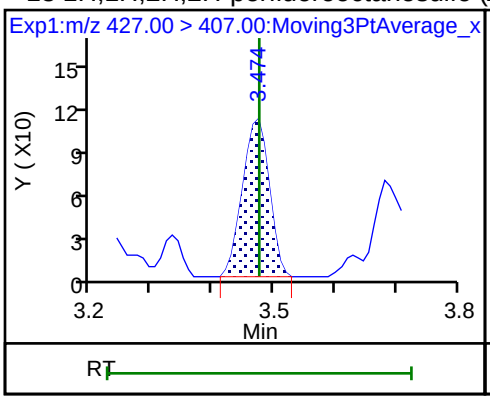


16 Perfluoroheptanesulfonic acid (ND) D 12 M2-6:2 FTS

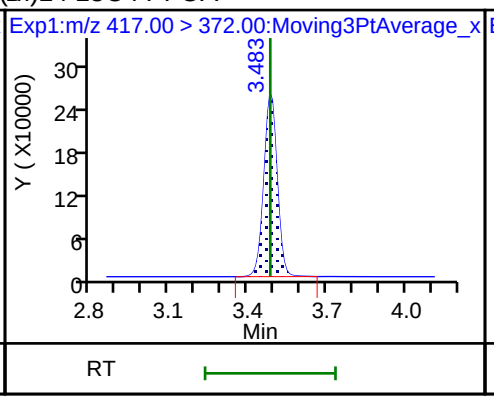




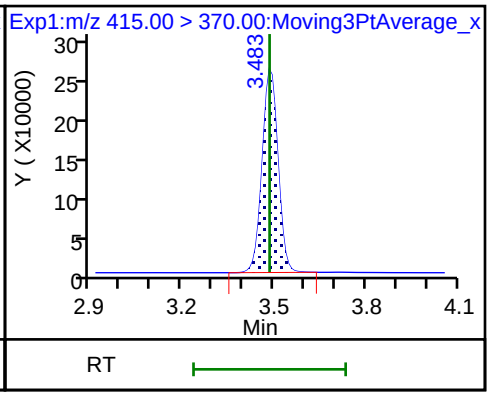
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



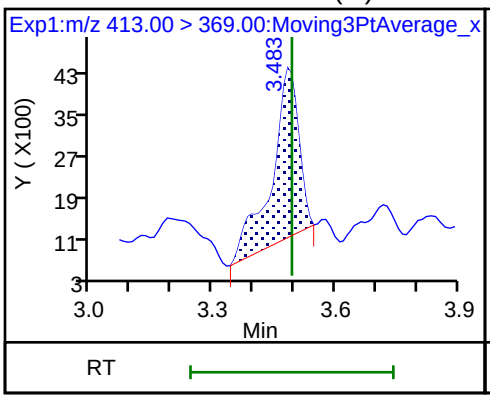
14 13C4 PFOA



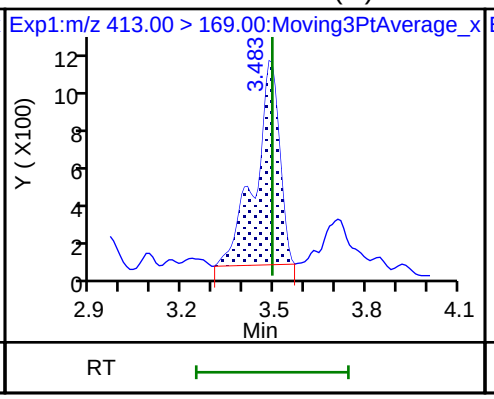
* 62 13C2 PFOA



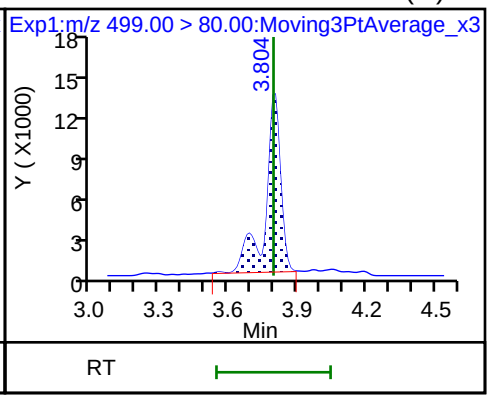
15 Perfluorooctanoic acid (M)



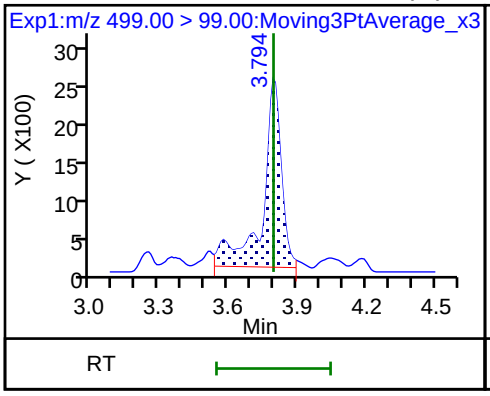
15 Perfluorooctanoic acid (M)



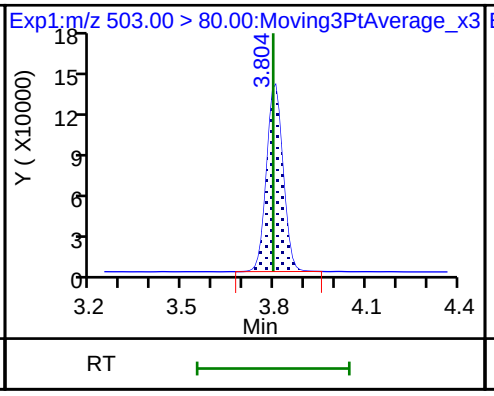
17 Perfluorooctanesulfonic acid (M)



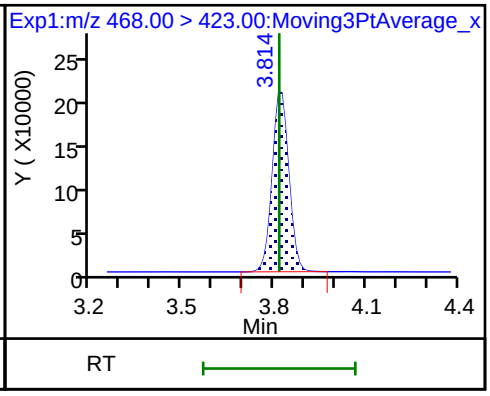
17 Perfluorooctanesulfonic acid (M)



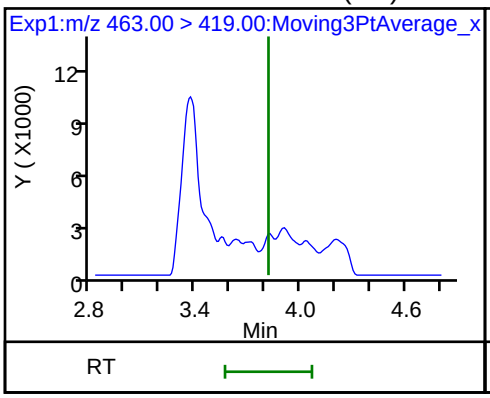
D 18 13C4 PFOS



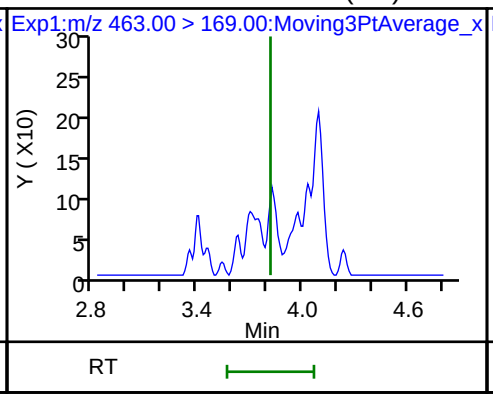
D 19 13C5 PFNA



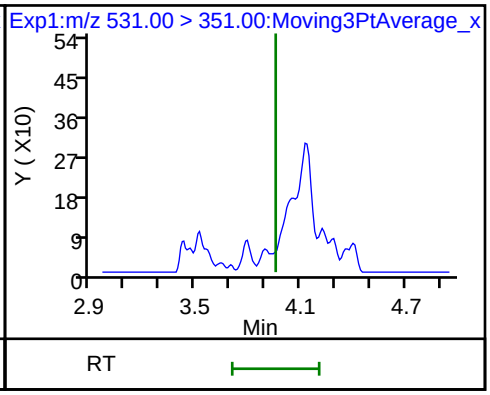
20 Perfluorononanoic acid (ND)



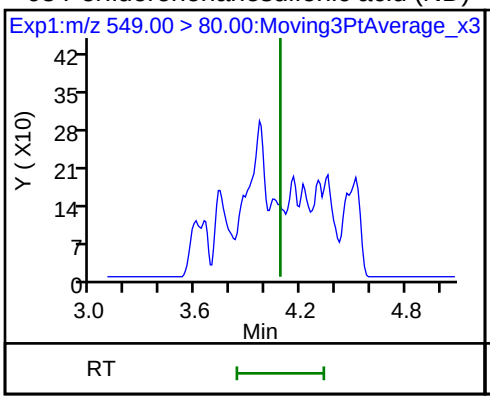
20 Perfluorononanoic acid (ND)



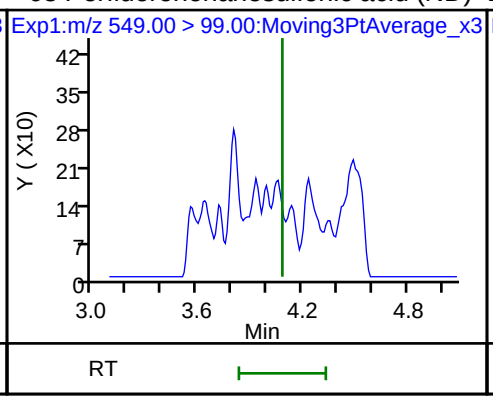
69 9-Chlorohexadecafluoro-3-oxanona (ND)



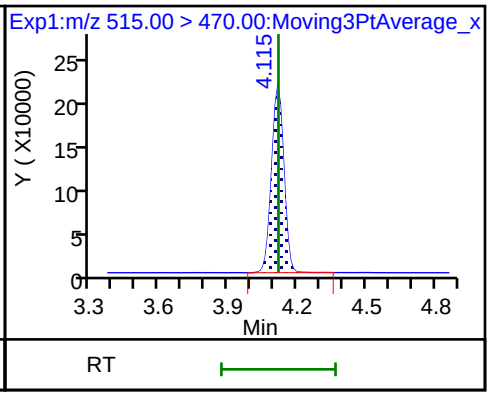
68 Perfluorononanesulfonic acid (ND)



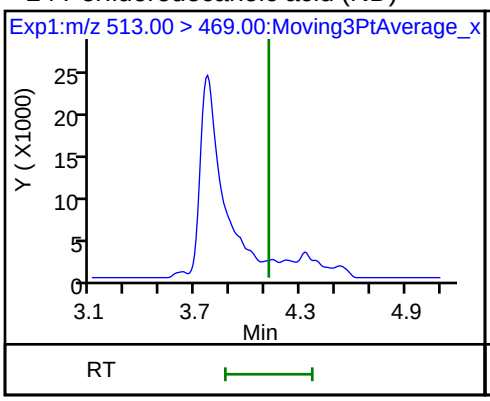
68 Perfluorononanesulfonic acid (ND)



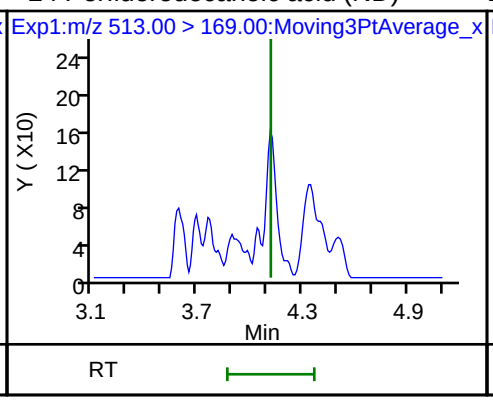
D 23 13C2 PFDA



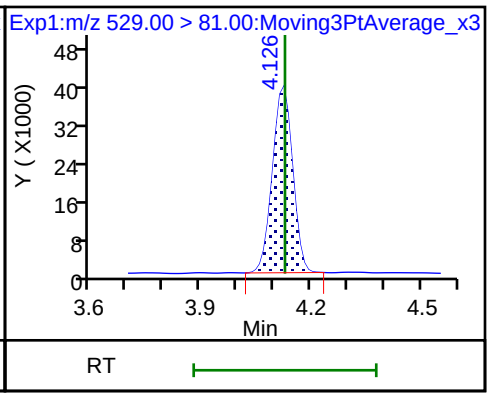
24 Perfluorodecanoic acid (ND)



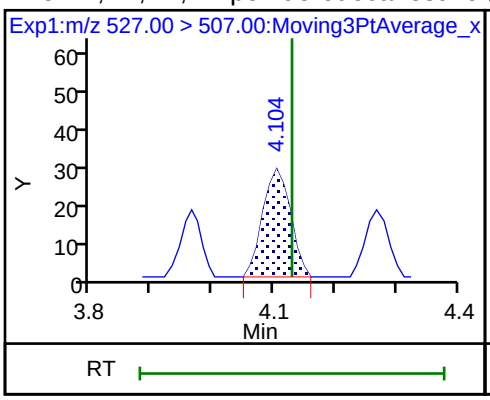
24 Perfluorodecanoic acid (ND)



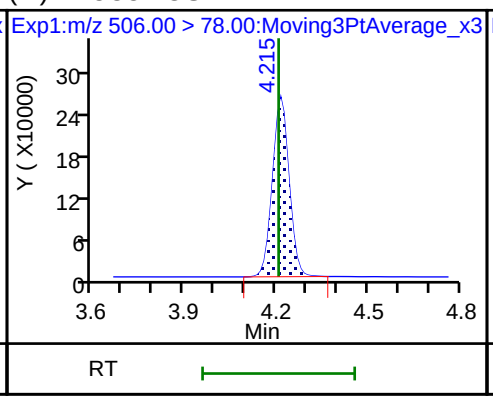
D 26 M2-8:2 FTS



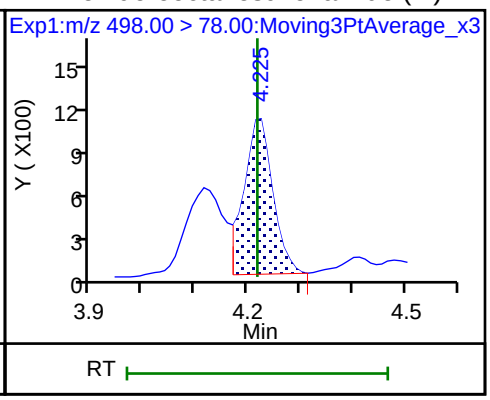
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



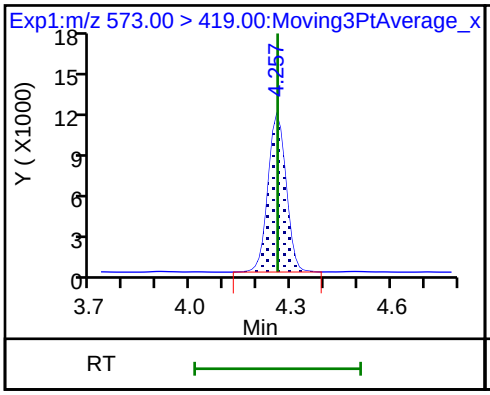
D 21 13C8 FOSA



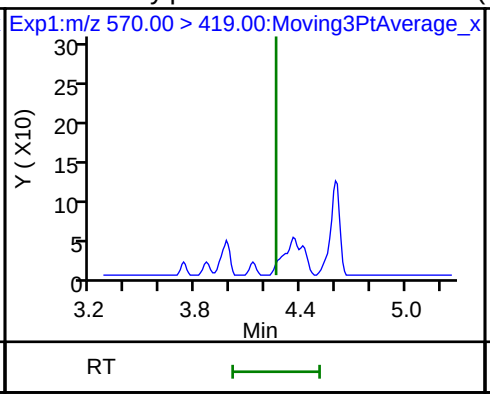
22 Perfluorooctanesulfonamide (M)



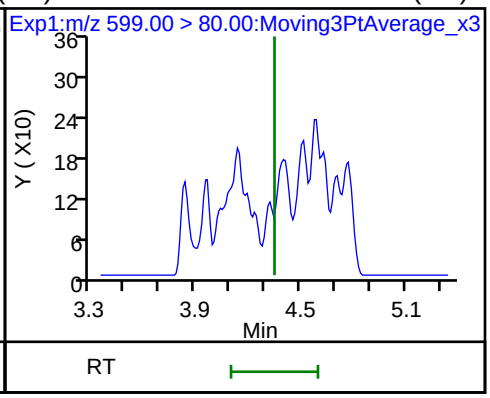
D 27 d3-NMeFOSAA



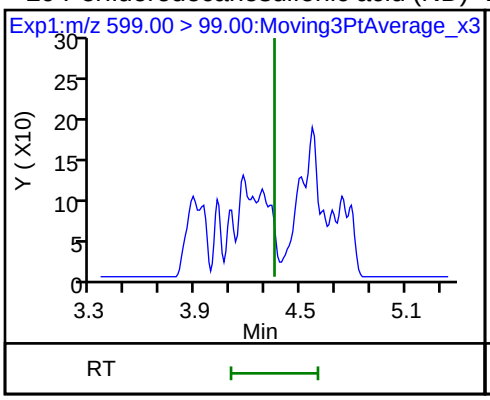
28 N-methylperfluorooctanesulfonami (ND)



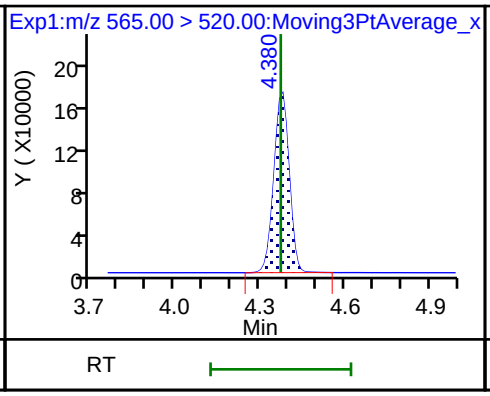
29 Perfluorodecanesulfonic acid (ND)



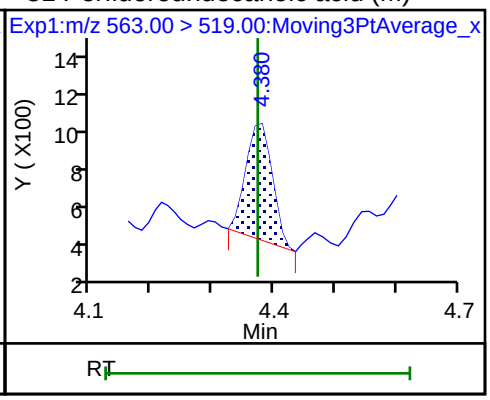
29 Perfluorodecanesulfonic acid (ND)



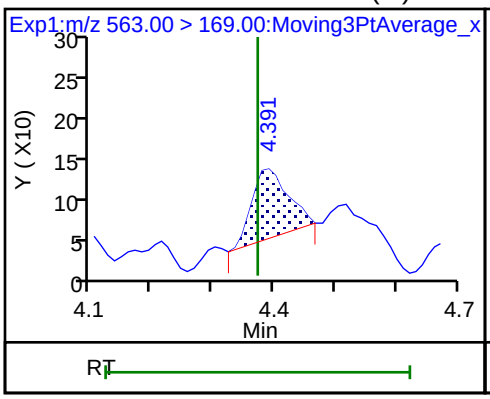
D 30 13C2 PFUnA



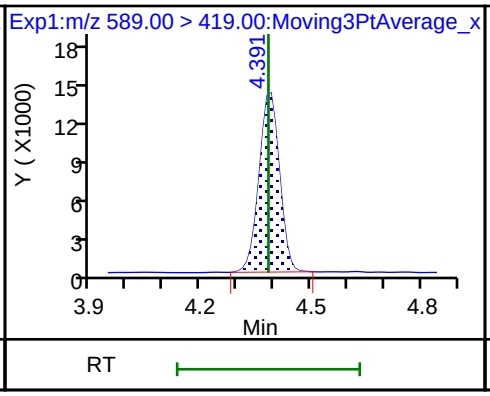
31 Perfluoroundecanoic acid (M)



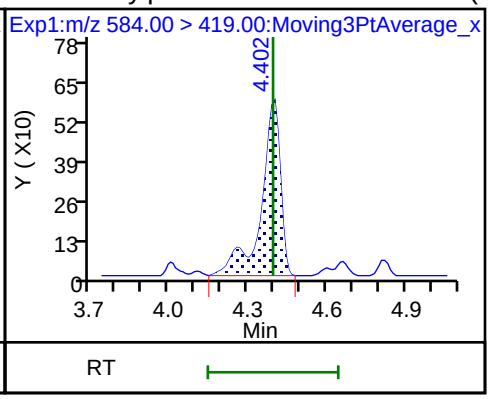
31 Perfluoroundecanoic acid (M)



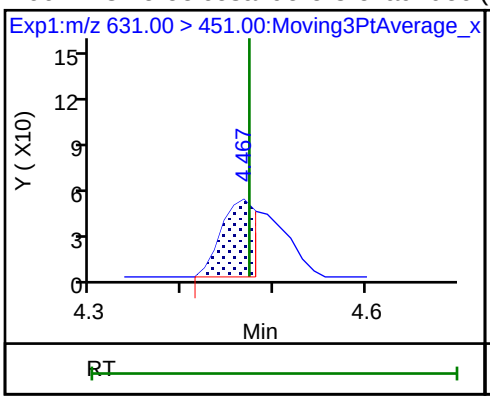
D 32 d5-NEtFOSAA



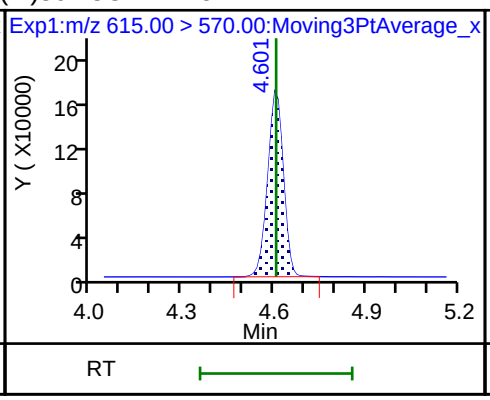
33 N-ethylperfluorooctanesulfonamid (M)



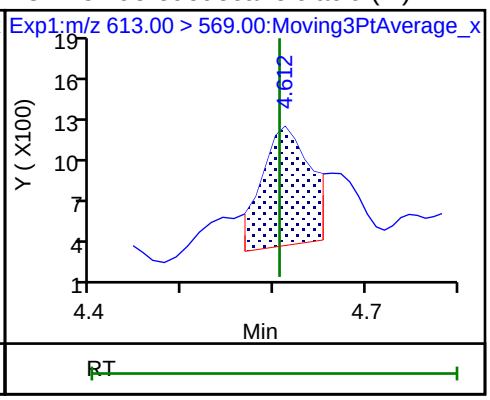
66 11-Chloroeicosafluoro-3-oxaundec (M)



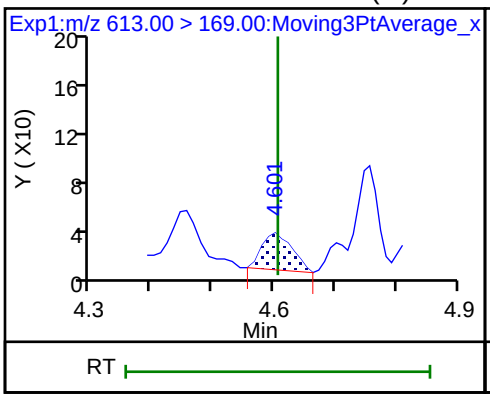
D 36 13C2 PFDoA



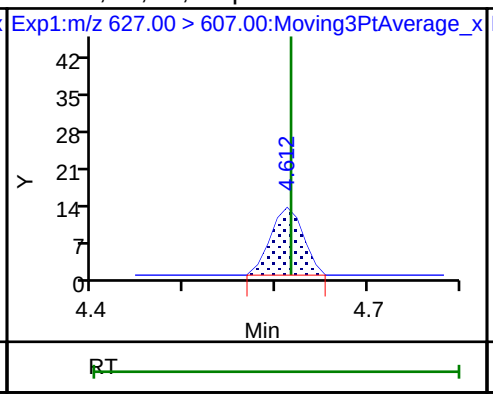
37 Perfluorododecanoic acid (M)



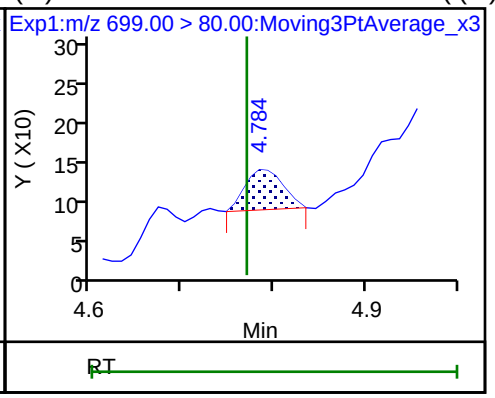
37 Perfluorododecanoic acid (M)



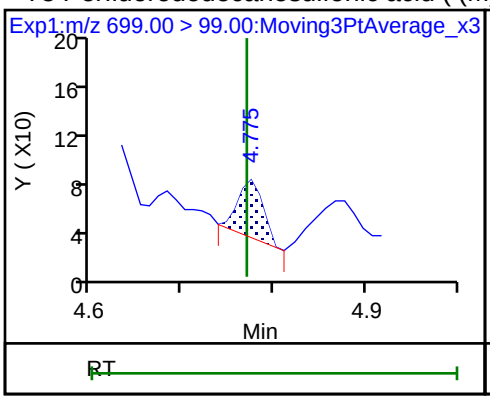
74 1H,1H,2H,2H-perfluorododecanesul (M)



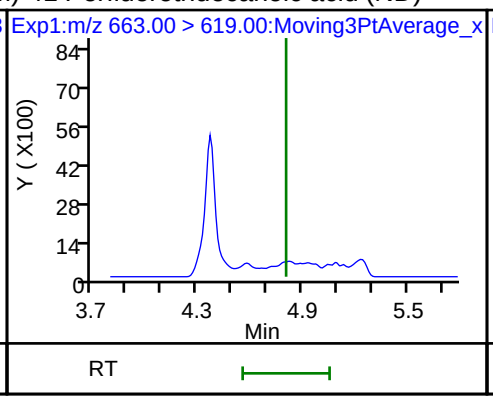
75 Perfluorododecanesulfonic acid ((M)



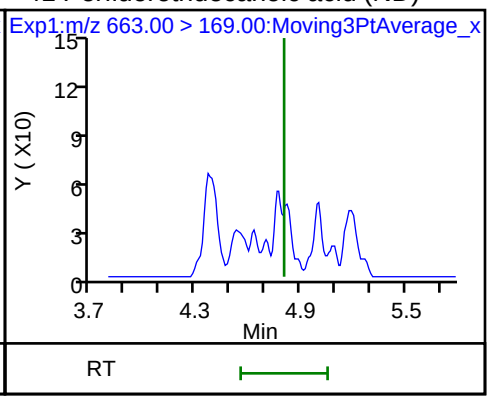
75 Perfluorododecanesulfonic acid ((M)



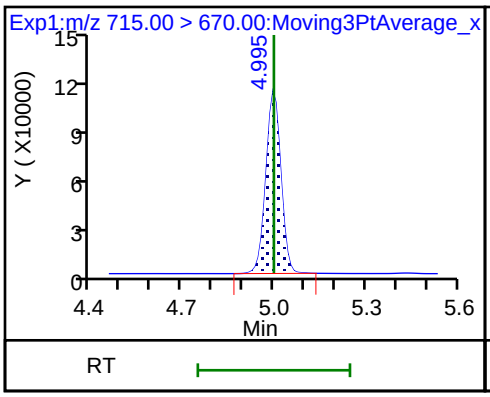
41 Perfluorotridecanoic acid (ND)



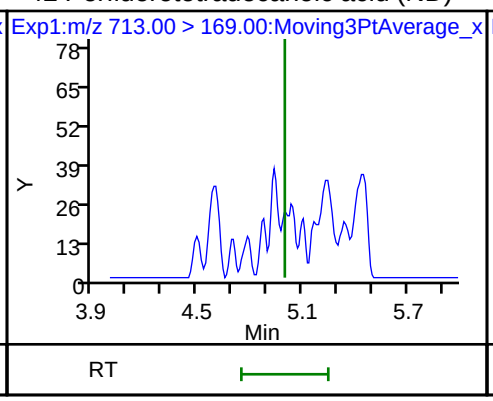
41 Perfluorotridecanoic acid (ND)



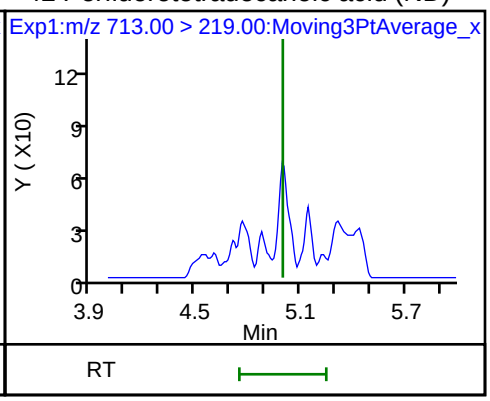
D 43 13C2 PFTeDA



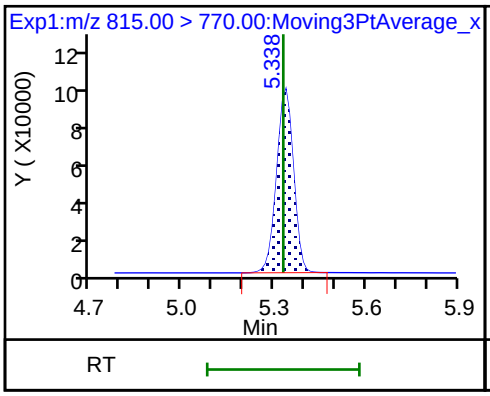
42 Perfluorotetradecanoic acid (ND)



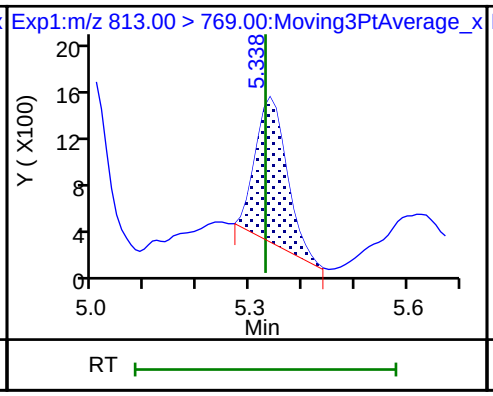
42 Perfluorotetradecanoic acid (ND)



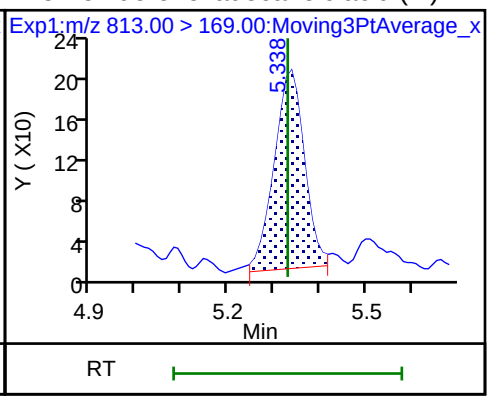
D 44 13C2 PFHxDA



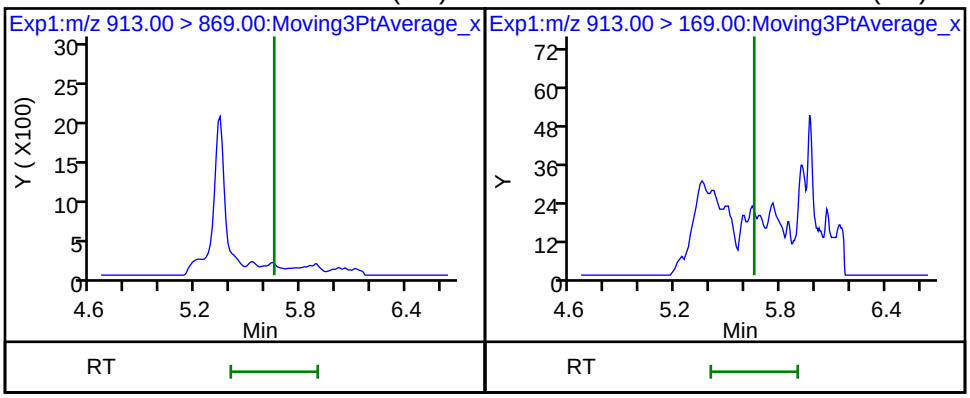
45 Perfluorohexadecanoic acid



45 Perfluorohexadecanoic acid (M)



46 Perfluorooctadecanoic acid (ND) 46 Perfluorooctadecanoic acid (ND)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

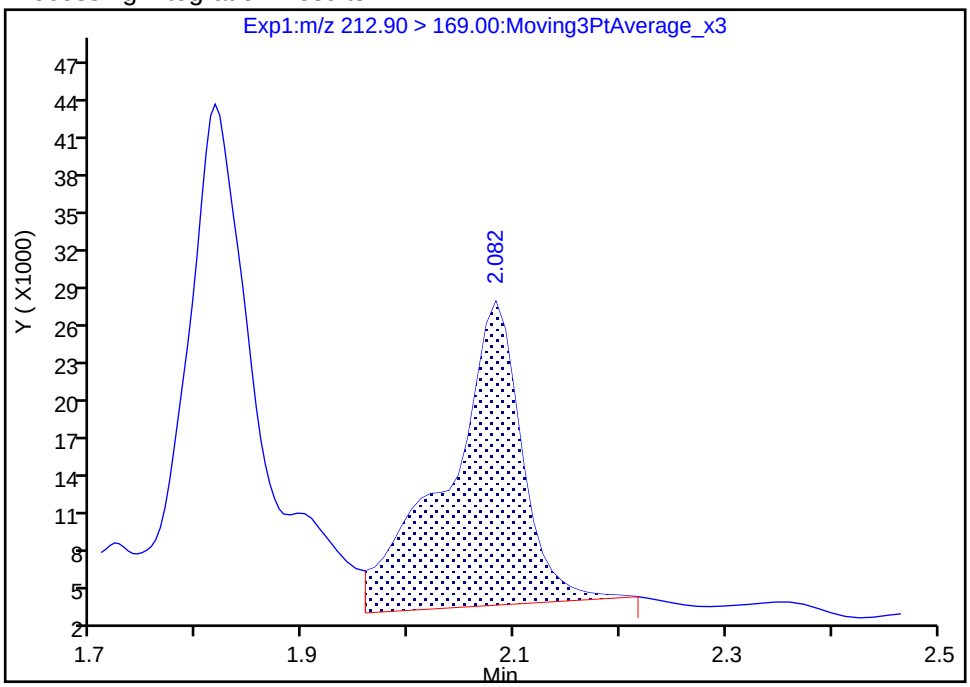
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A11.d				
Injection Date:	26-Feb-2021 14:09:13	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-A	Lab Sample ID:	200-181249-3		
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

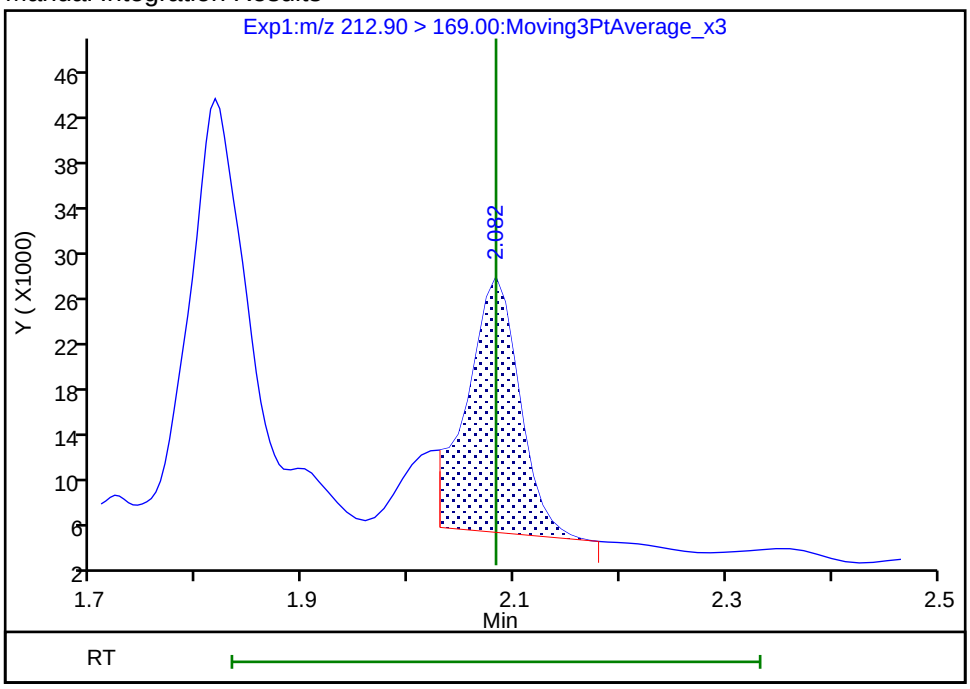
Processing Integration Results

RT: 2.08
Area: 118578
Amount: 0.134712
Amount Units: ng/ml



Manual Integration Results

RT: 2.08
Area: 77489
Amount: 0.088032
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:50:14

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

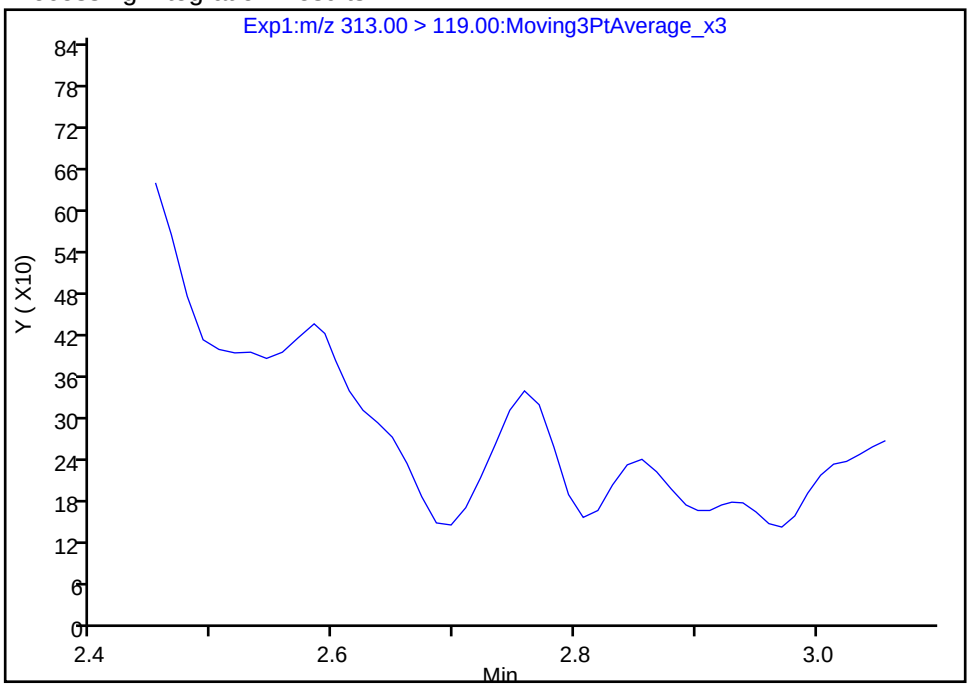
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A11.d				
Injection Date:	26-Feb-2021 14:09:13	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-A	Lab Sample ID:	200-181249-3		
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

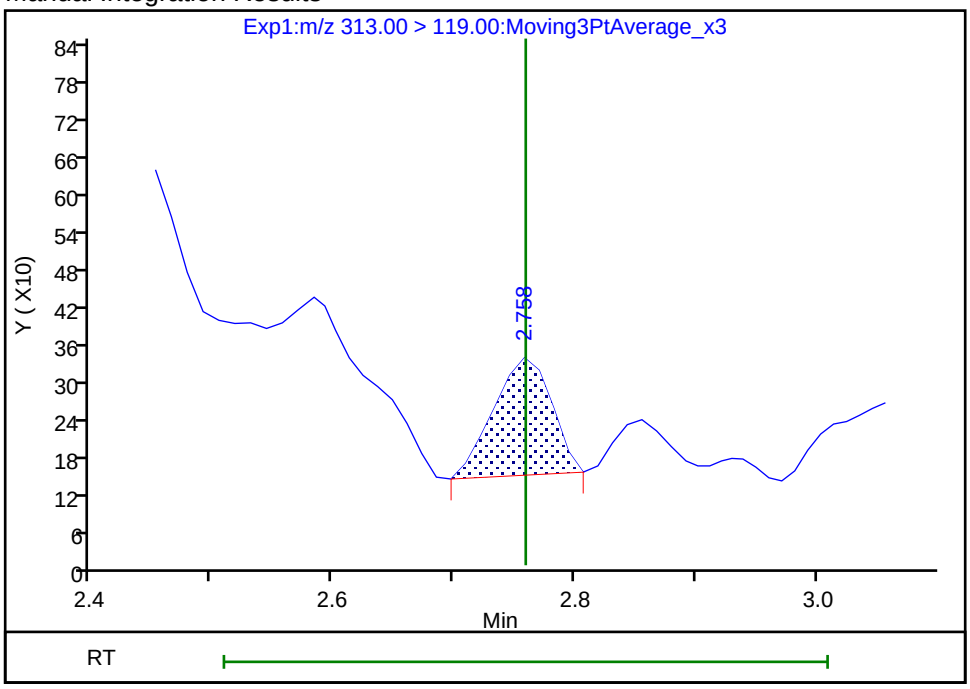
Not Detected
Expected RT: 2.76

Processing Integration Results



Manual Integration Results

RT: 2.76
Area: 624
Amount: 0.010137
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:50:57
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

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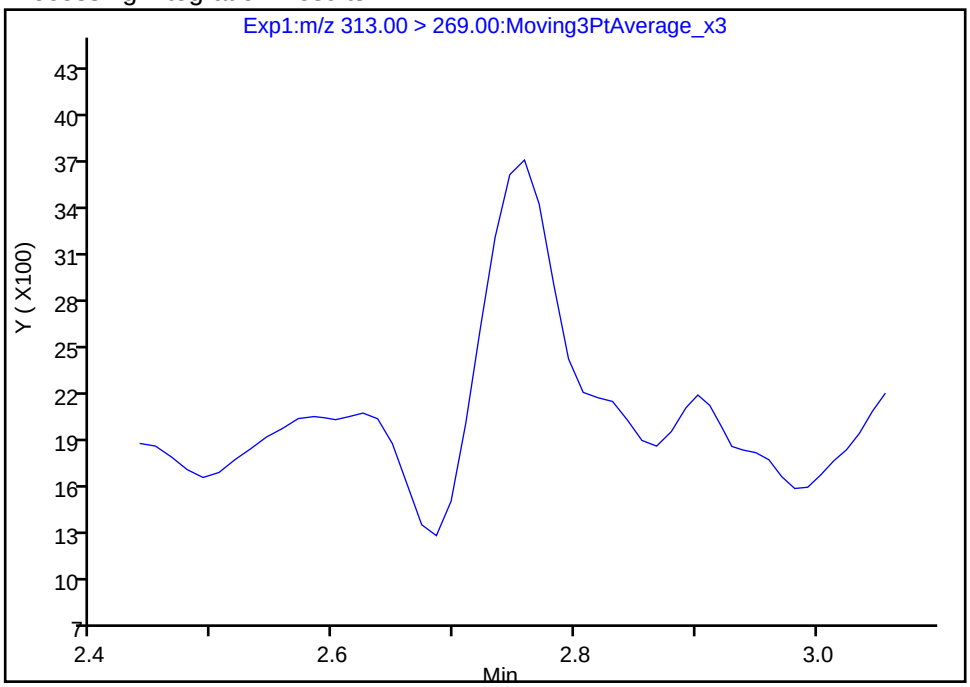
Injection Date:	26-Feb-2021 14:09:13	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-A	Lab Sample ID:	200-181249-3		
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

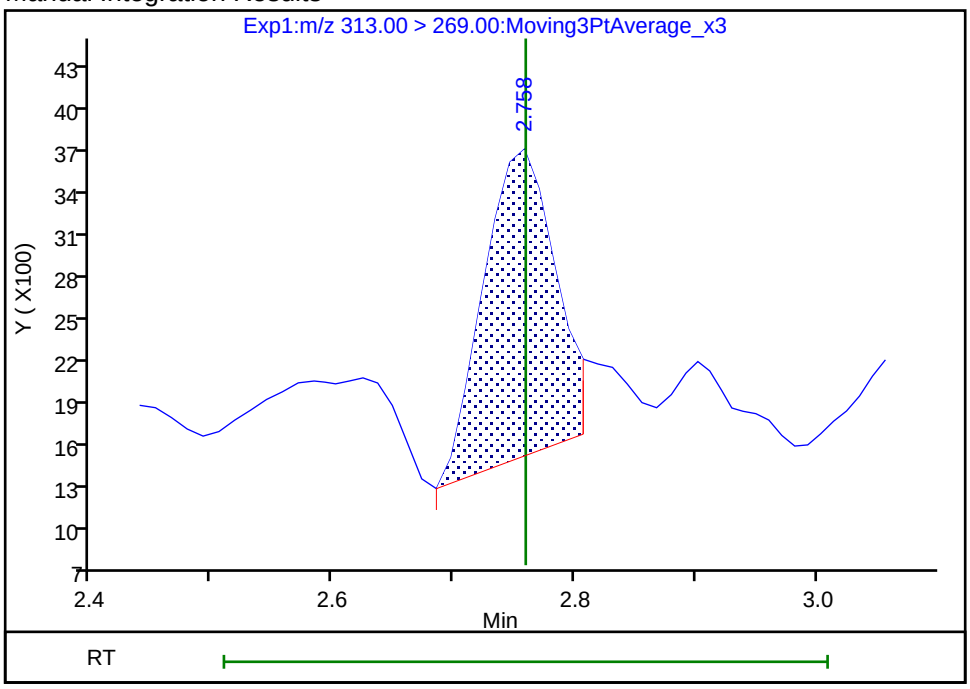
Not Detected
Expected RT: 2.76

Processing Integration Results



Manual Integration Results

RT: 2.76
Area: 8910
Amount: 0.010137
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:51:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

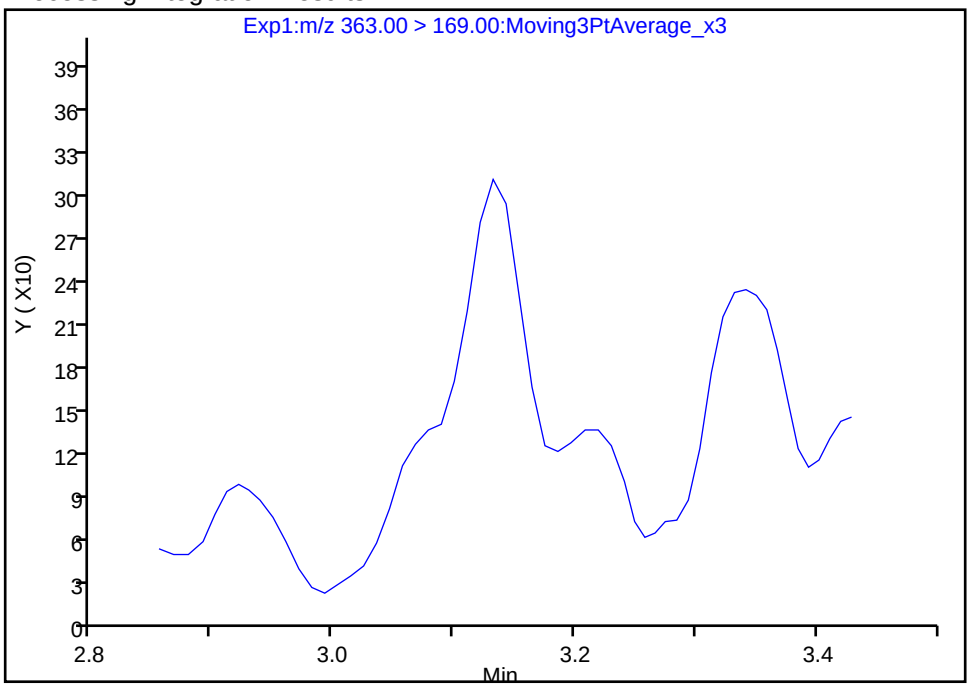
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A11.d				
Injection Date:	26-Feb-2021 14:09:13	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-A	Lab Sample ID:	200-181249-3		
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

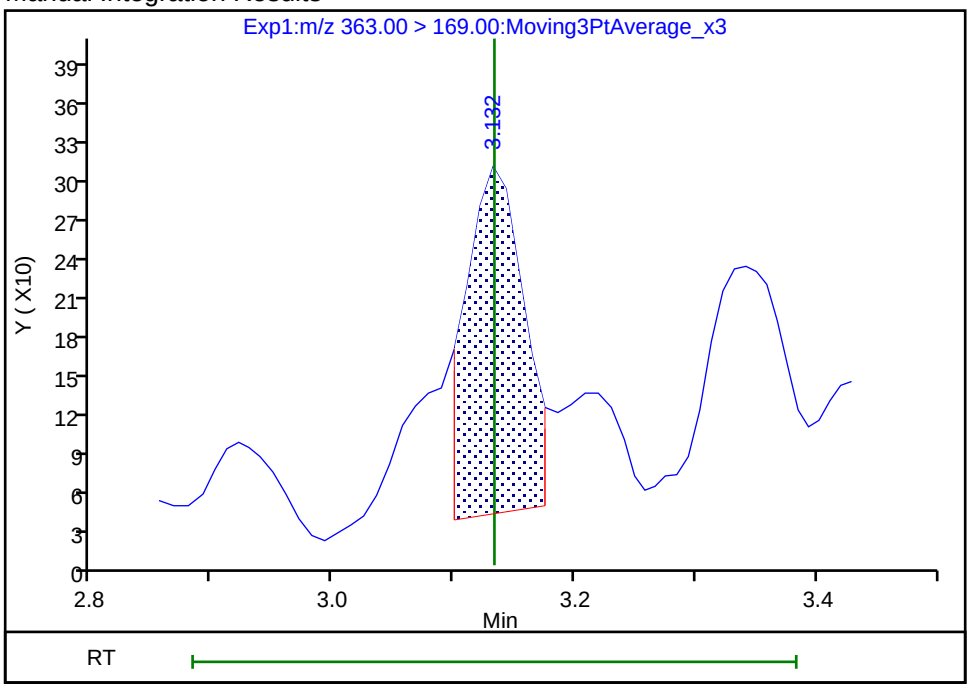
Not Detected
Expected RT: 3.13

Processing Integration Results



Manual Integration Results

RT: 3.13
Area: 865
Amount: 0.006266
Amount Units: ng/ml



Reviewer: deannd, 01-Mar-2021 10:43:51
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

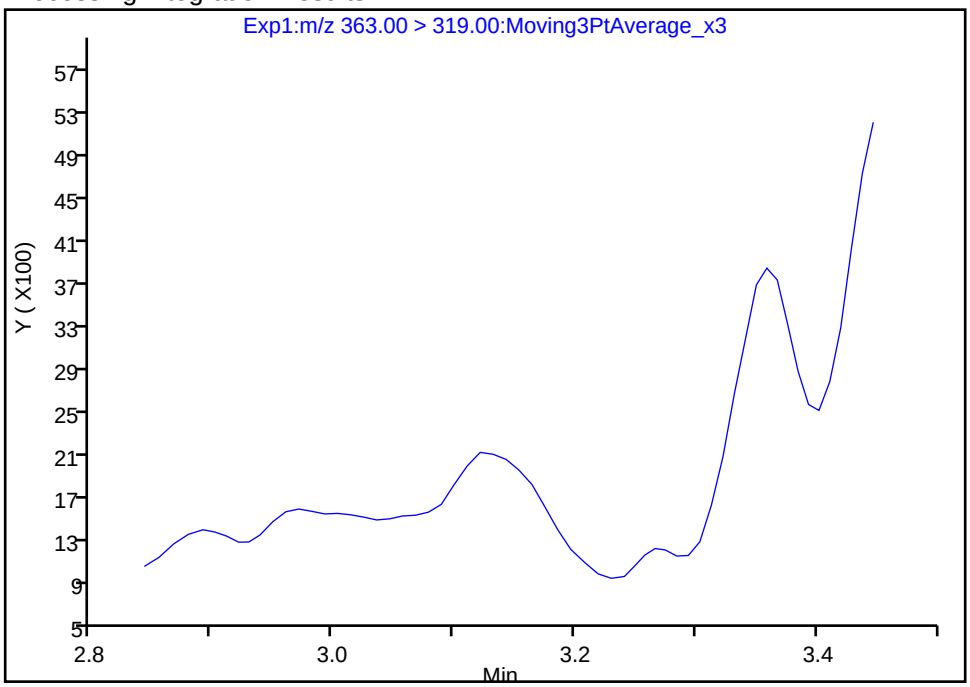
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A11.d				
Injection Date:	26-Feb-2021 14:09:13	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-A	Lab Sample ID:	200-181249-3		
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

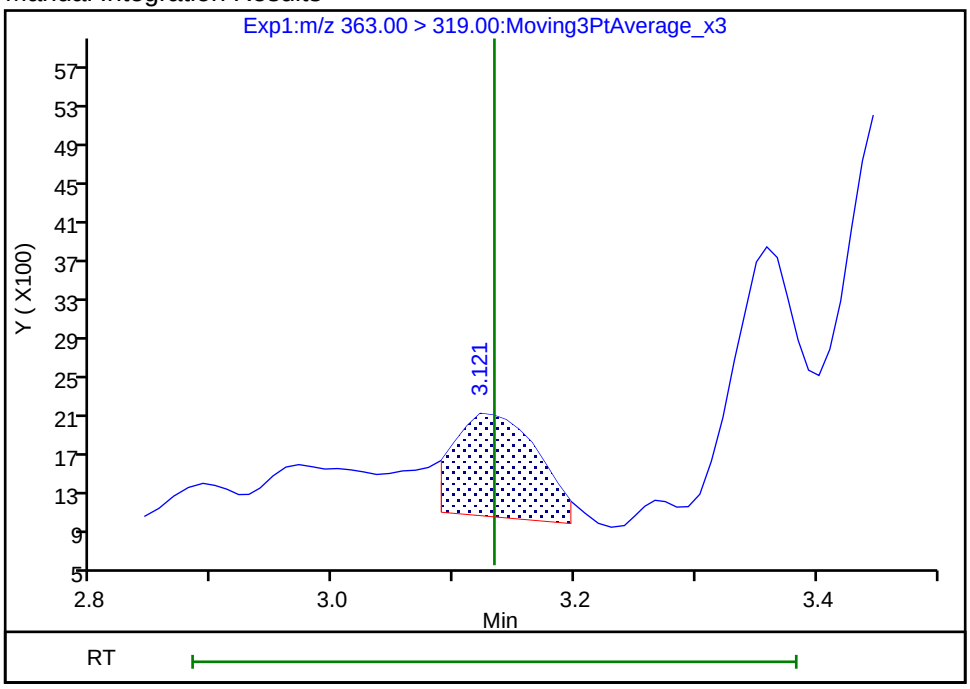
Not Detected
Expected RT: 3.13

Processing Integration Results



Manual Integration Results

RT: 3.12
Area: 4989
Amount: 0.006266
Amount Units: ng/ml



Reviewer: deannd, 01-Mar-2021 10:43:54
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

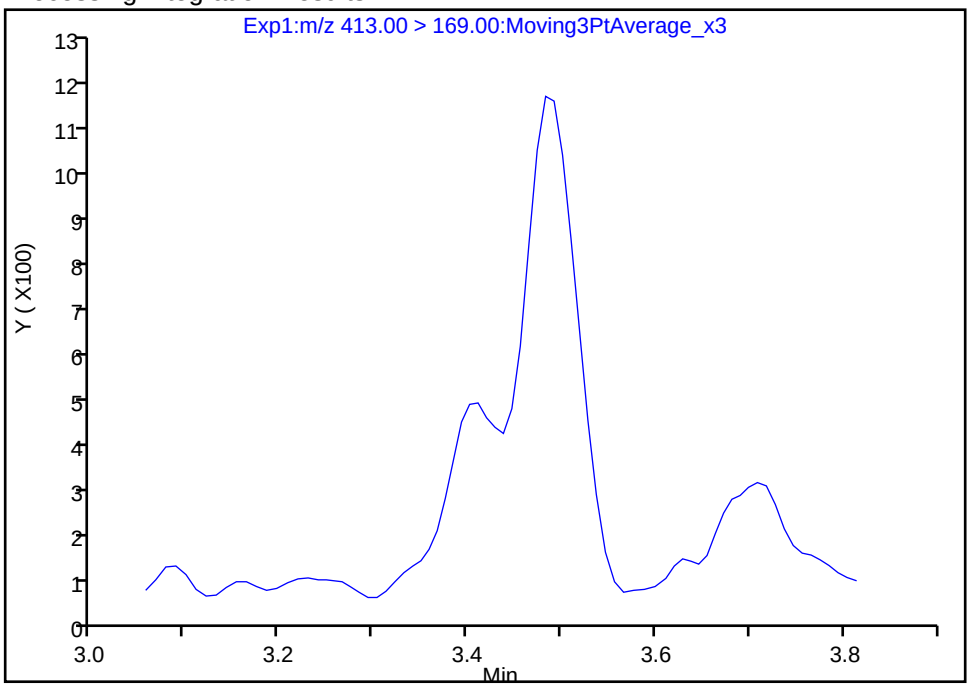
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A11.d				
Injection Date:	26-Feb-2021 14:09:13	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-A	Lab Sample ID:	200-181249-3		
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

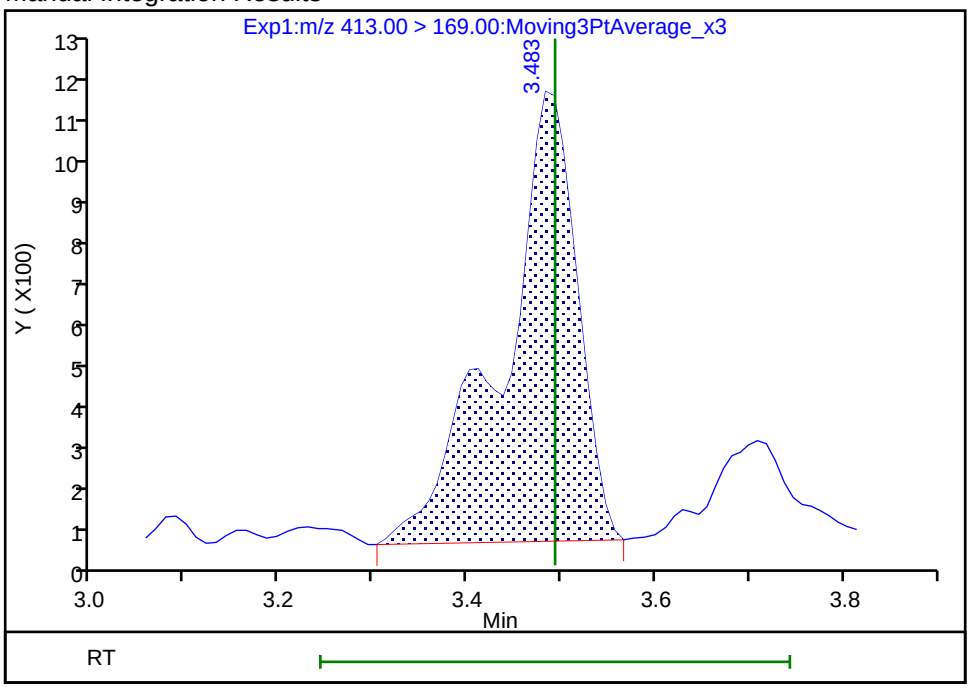
Not Detected
Expected RT: 3.49

Processing Integration Results



Manual Integration Results

RT: 3.48
Area: 5774
Amount: 0.019532
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:53:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

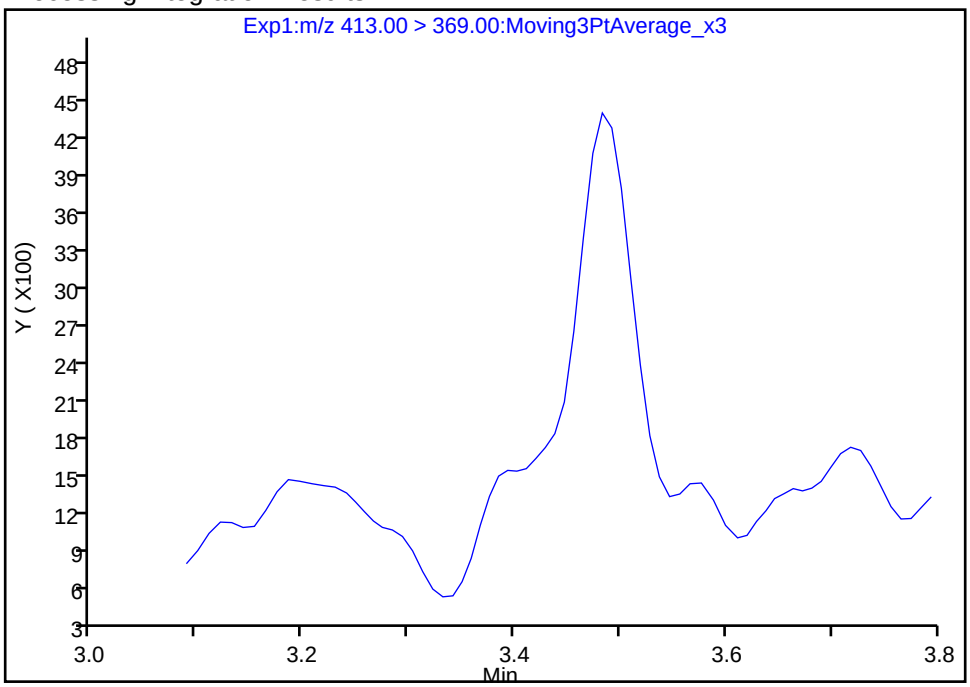
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A11.d				
Injection Date:	26-Feb-2021 14:09:13	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-A	Lab Sample ID:	200-181249-3		
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

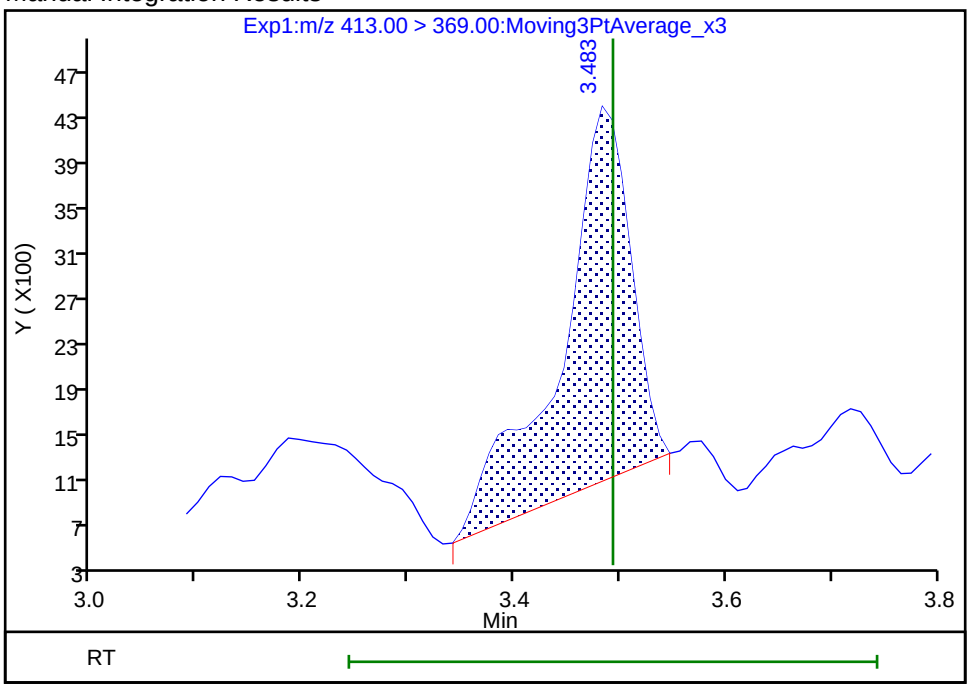
Not Detected
Expected RT: 3.49

Processing Integration Results



Manual Integration Results

RT: 3.48
Area: 15189
Amount: 0.019532
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:53:44
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

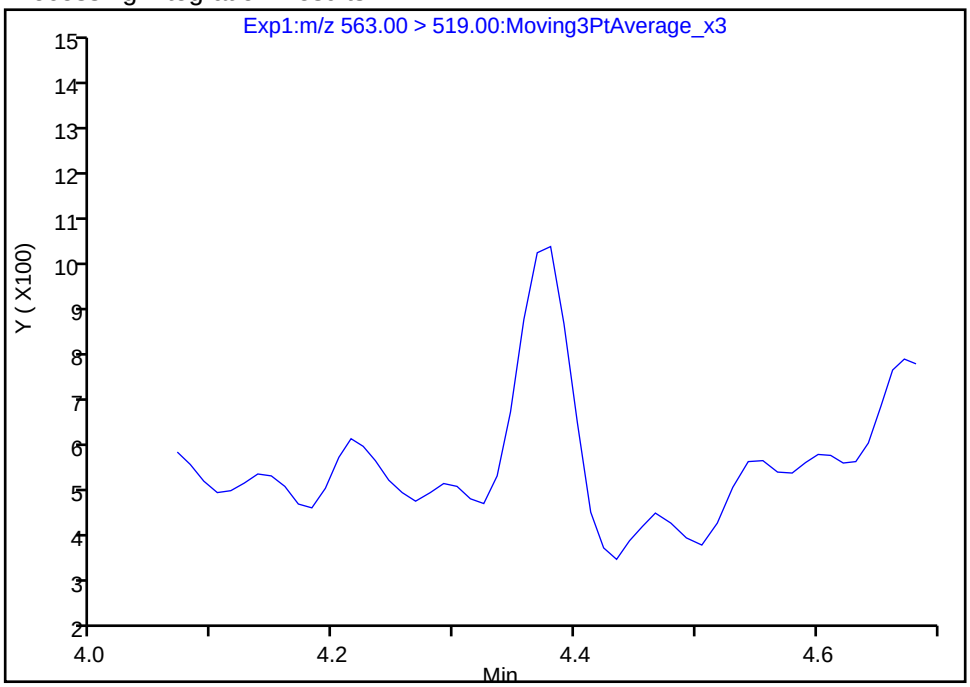
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A11.d				
Injection Date:	26-Feb-2021 14:09:13	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-A	Lab Sample ID:	200-181249-3		
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

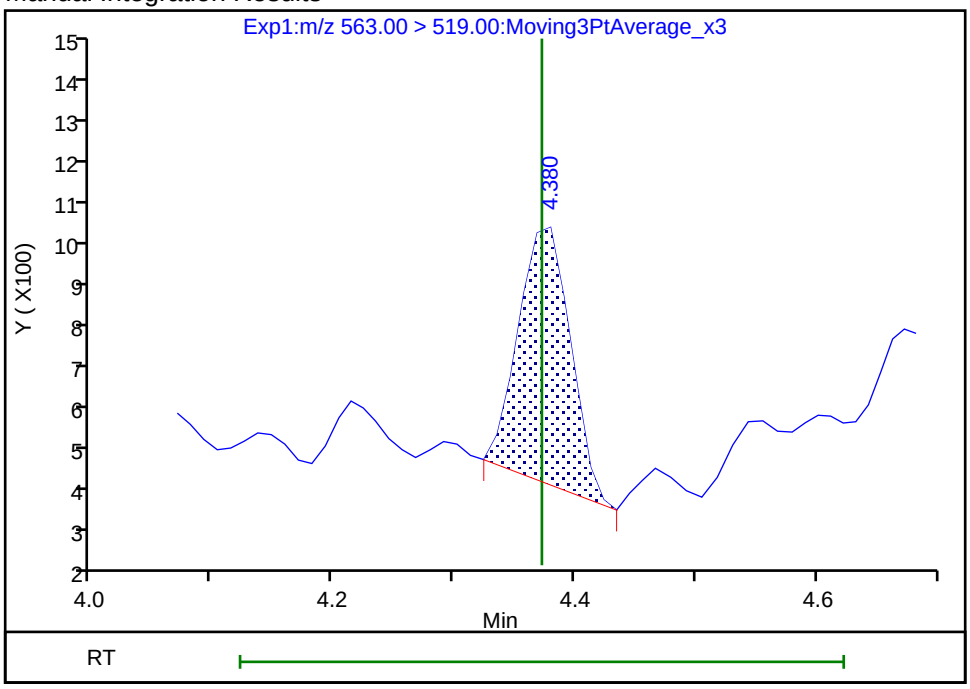
Not Detected
Expected RT: 4.37

Processing Integration Results



Manual Integration Results

RT: 4.38
Area: 1770
Amount: 0.003364
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:55:25
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

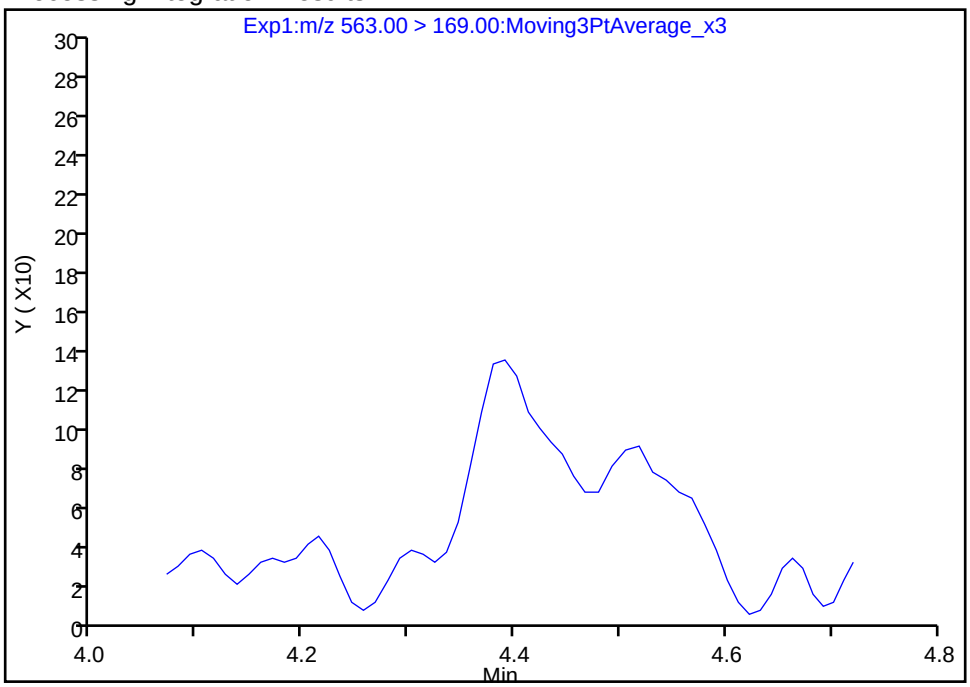
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A11.d				
Injection Date:	26-Feb-2021 14:09:13	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-A	Lab Sample ID:	200-181249-3		
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

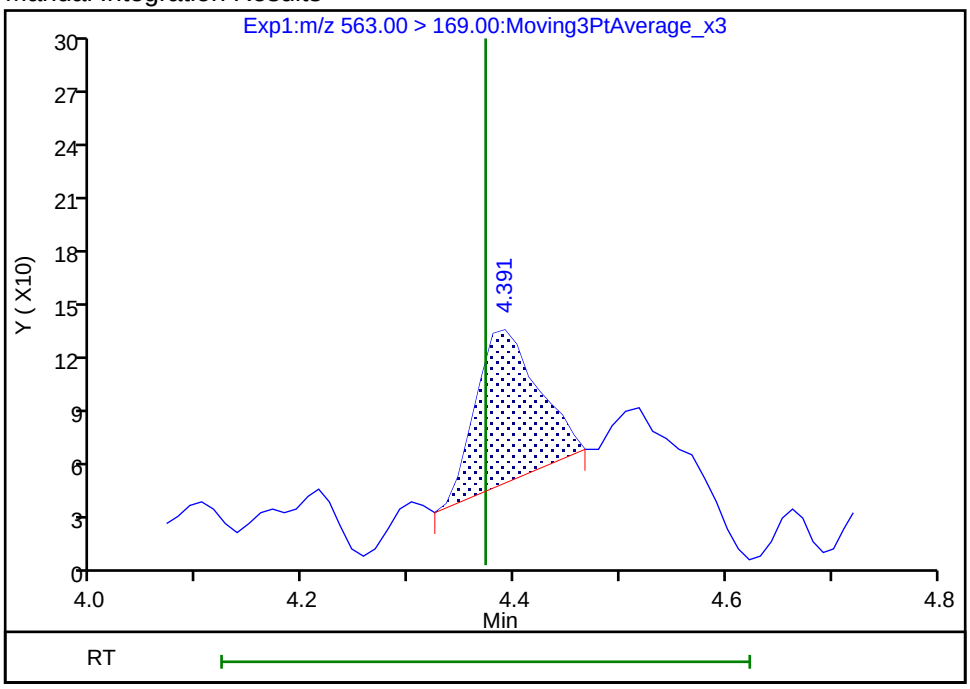
Not Detected
Expected RT: 4.37

Processing Integration Results



Manual Integration Results

RT: 4.39
Area: 347
Amount: 0.003364
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:55:31
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

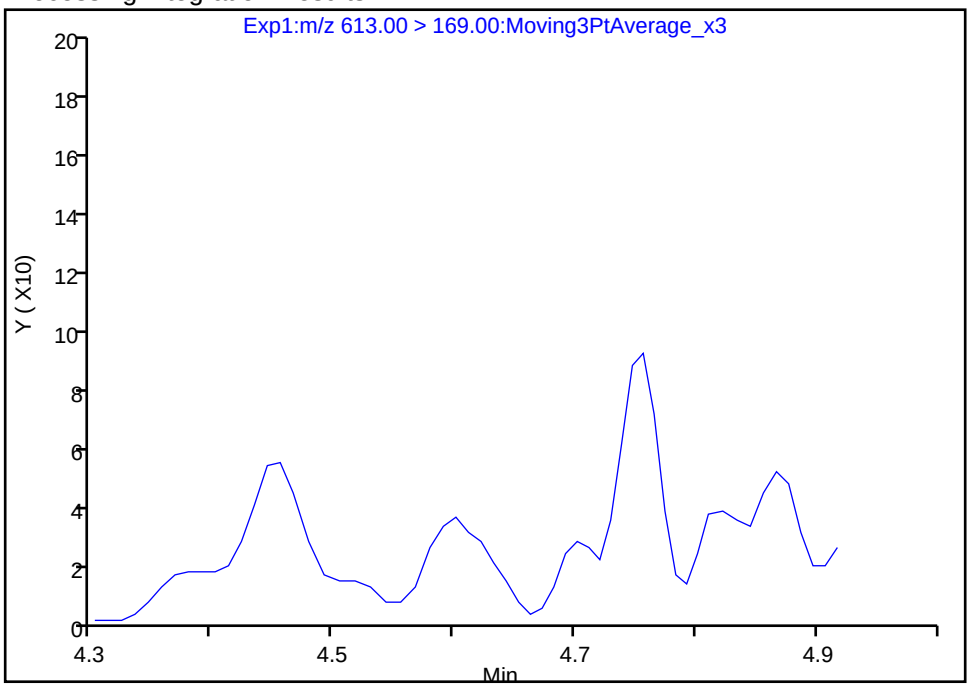
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A11.d				
Injection Date:	26-Feb-2021 14:09:13	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-A	Lab Sample ID:	200-181249-3		
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

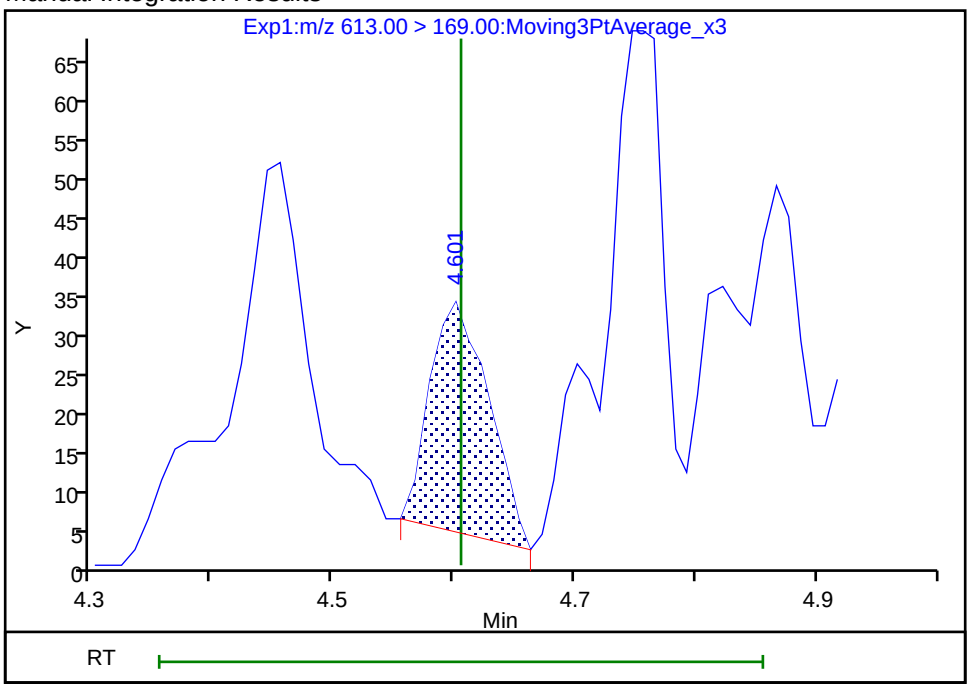
Not Detected
Expected RT: 4.61

Processing Integration Results



Manual Integration Results

RT: 4.60
Area: 100
Amount: 0.006032
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:56:00
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

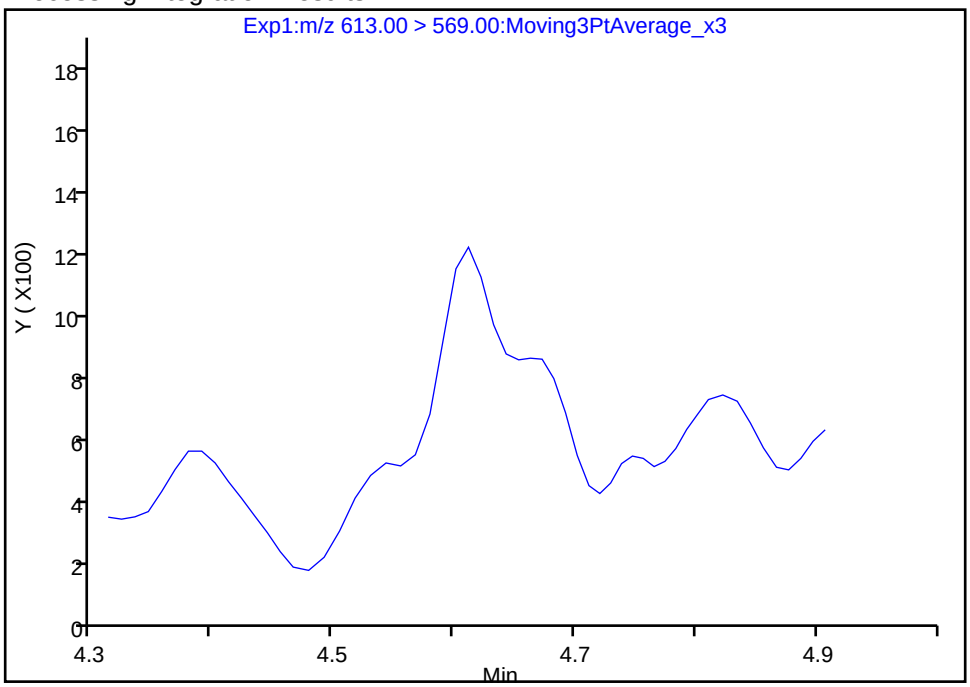
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A11.d				
Injection Date:	26-Feb-2021 14:09:13	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-A	Lab Sample ID:	200-181249-3		
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

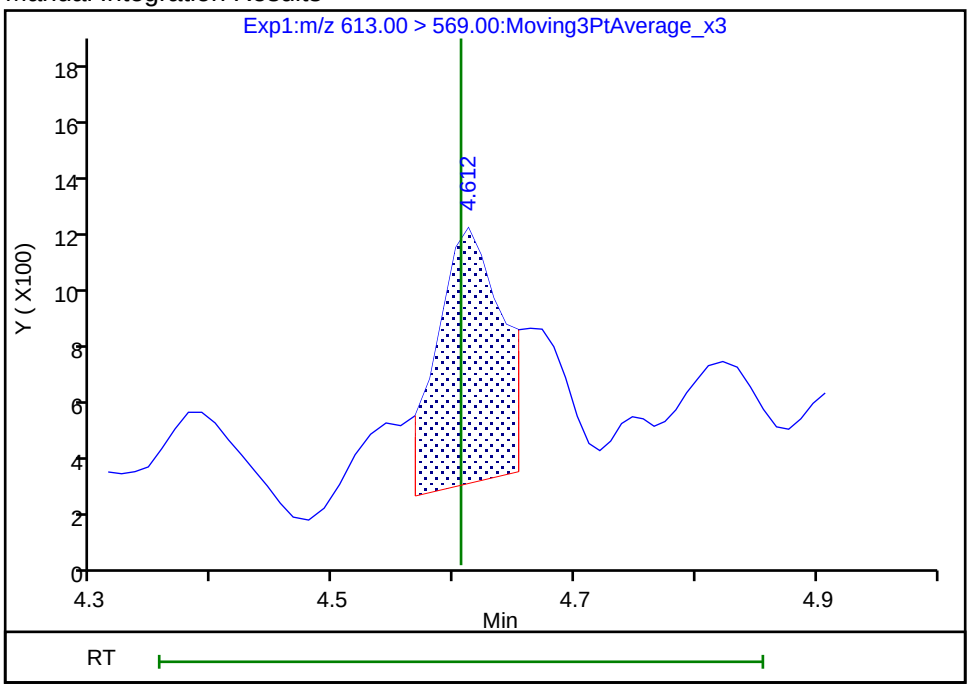
Not Detected
Expected RT: 4.61

Processing Integration Results



Manual Integration Results

RT: 4.61
Area: 3104
Amount: 0.006032
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:56:10
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

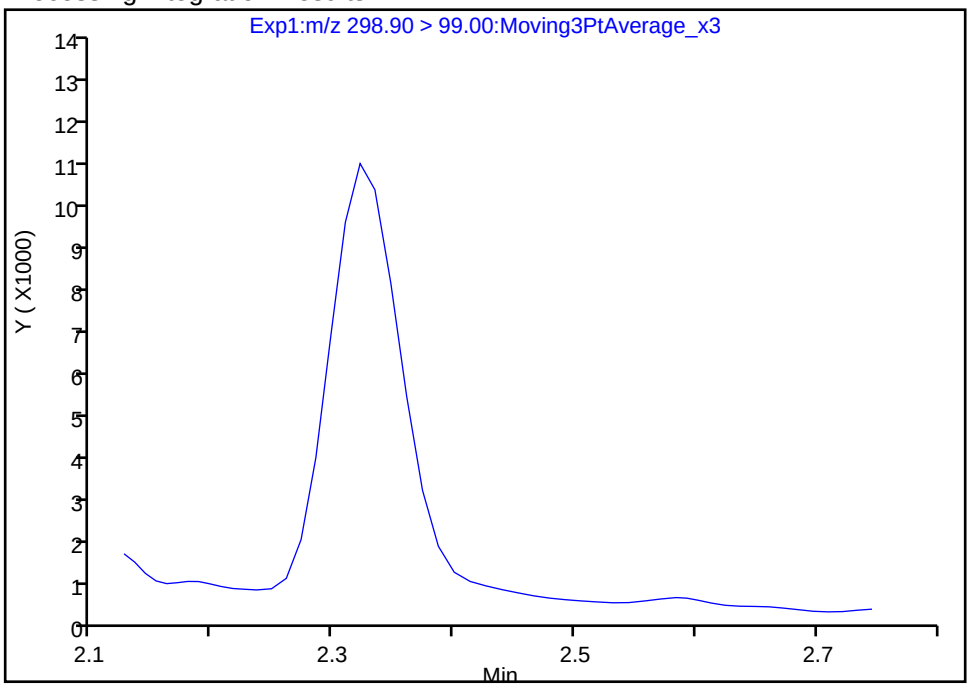
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A11.d				
Injection Date:	26-Feb-2021 14:09:13	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-A	Lab Sample ID:	200-181249-3		
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

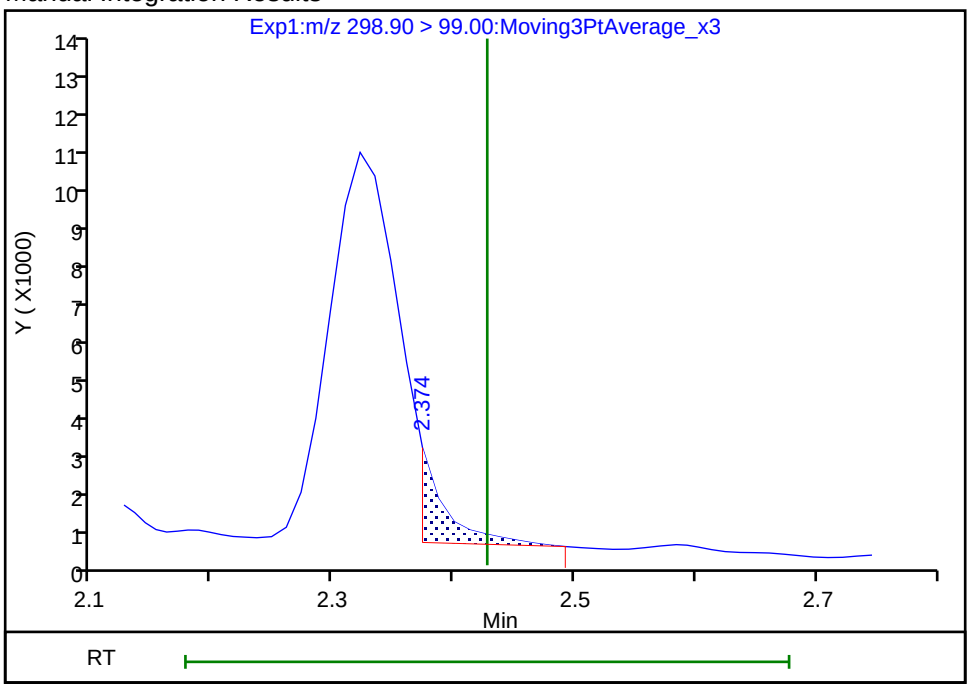
Not Detected
Expected RT: 2.43

Processing Integration Results



Manual Integration Results

RT: 2.37
Area: 3032
Amount: 0.002248
Amount Units: ng/ml



Reviewer: deannd, 01-Mar-2021 10:43:14
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

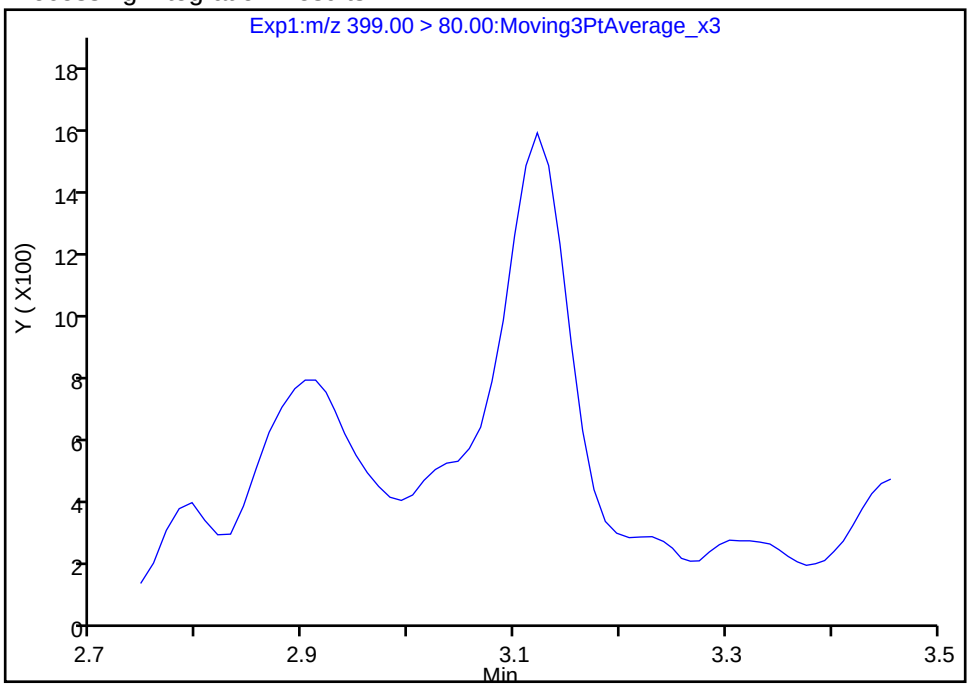
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A11.d				
Injection Date:	26-Feb-2021 14:09:13	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-A	Lab Sample ID:	200-181249-3		
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

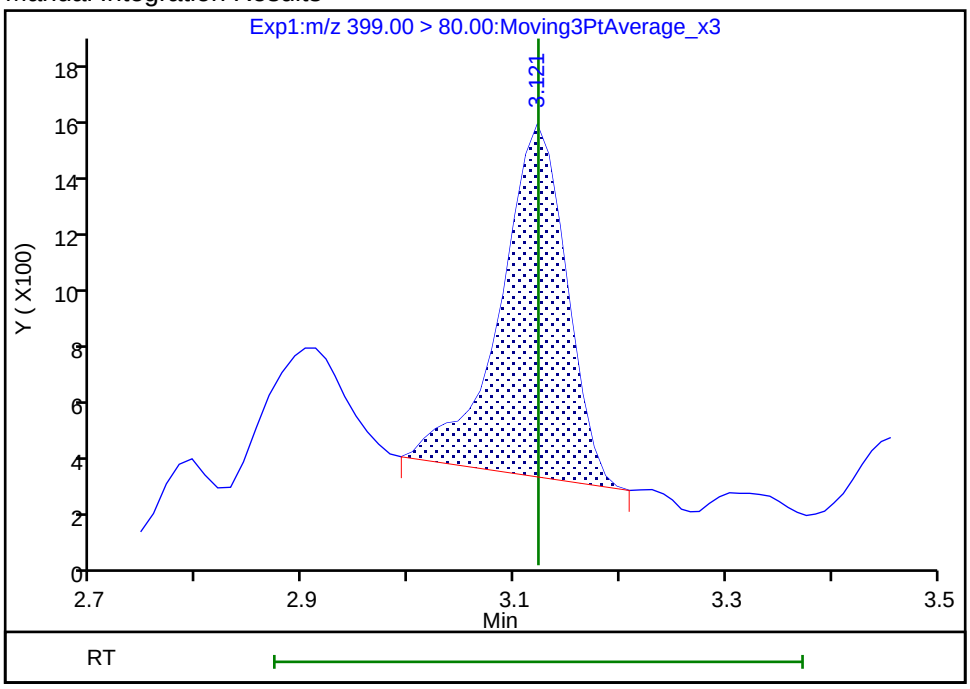
Not Detected
Expected RT: 3.12

Processing Integration Results



Manual Integration Results

RT: 3.12
Area: 5361
Amount: 0.007199
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:51:48
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

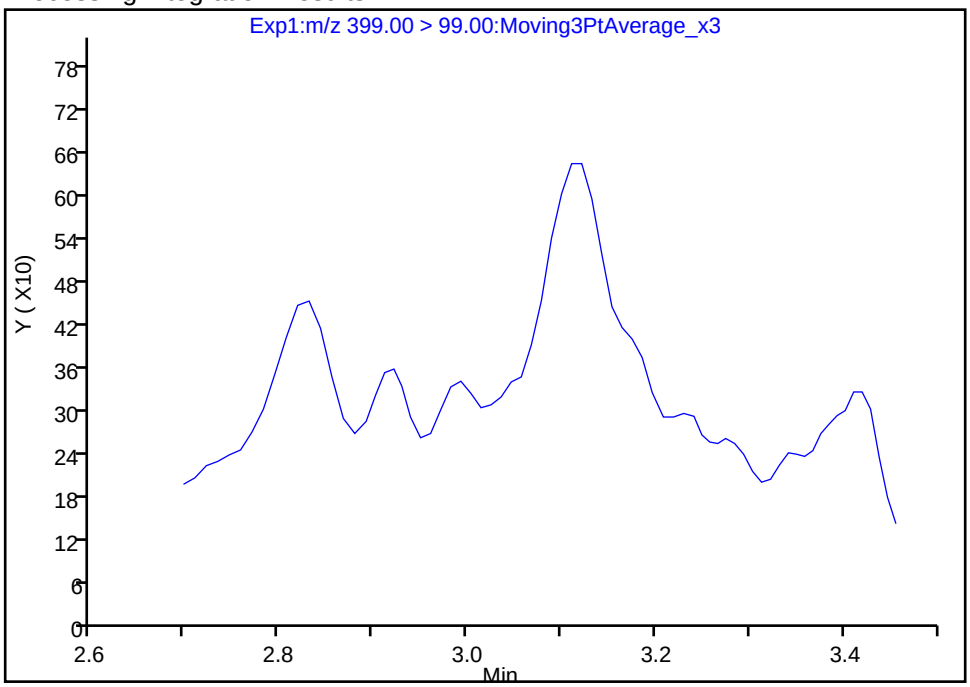
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A11.d				
Injection Date:	26-Feb-2021 14:09:13	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-A	Lab Sample ID:	200-181249-3		
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

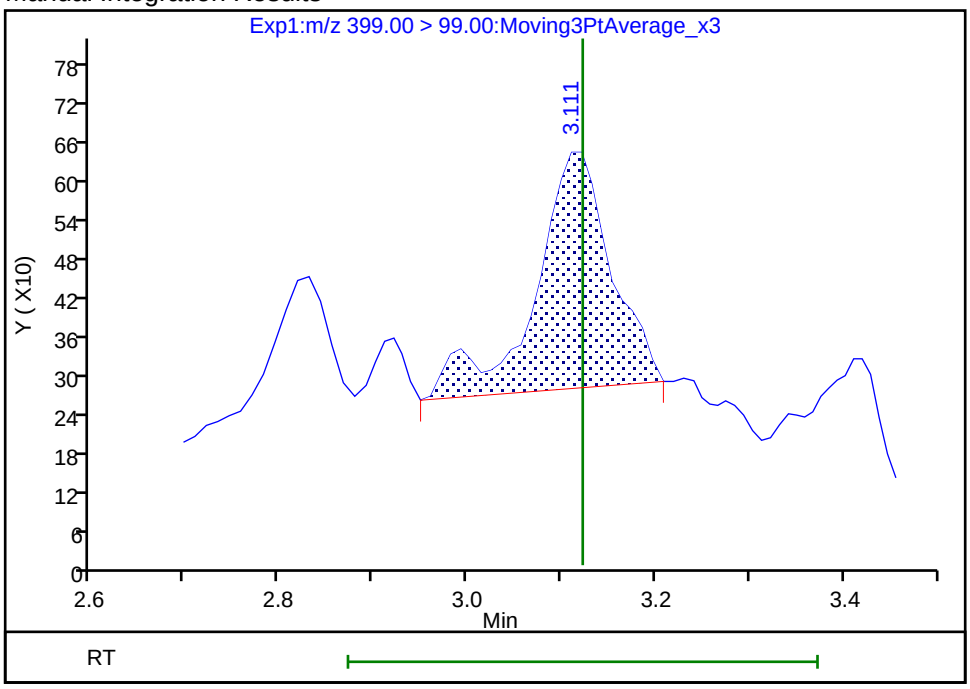
Processing Integration Results

Not Detected
Expected RT: 3.12



Manual Integration Results

RT: 3.11
Area: 2048
Amount: 0.007199
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:51:54
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

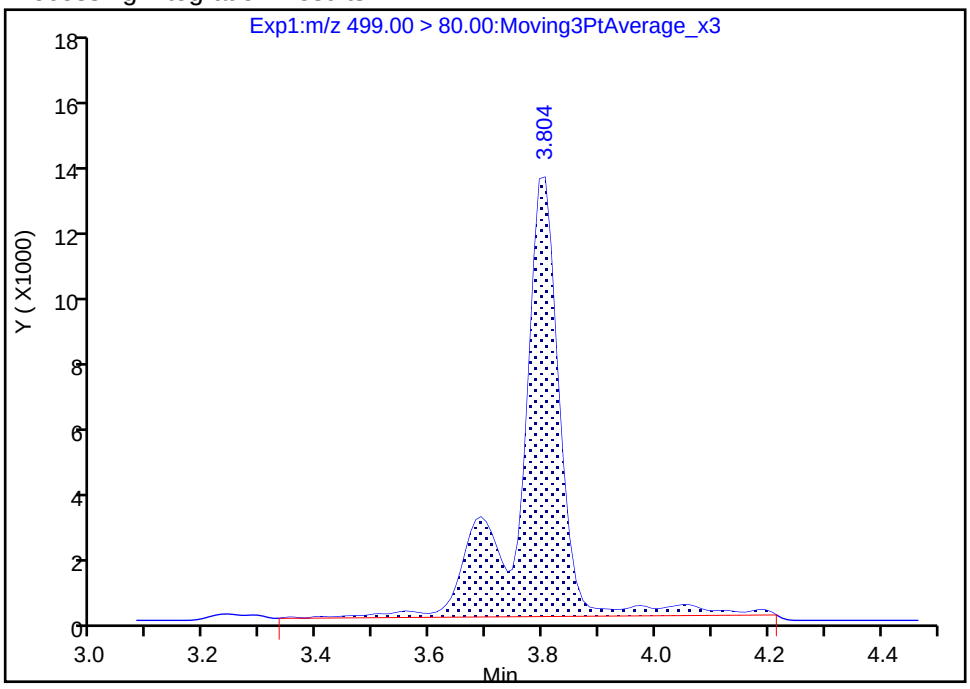
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A11.d				
Injection Date:	26-Feb-2021 14:09:13	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-A	Lab Sample ID:	200-181249-3		
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

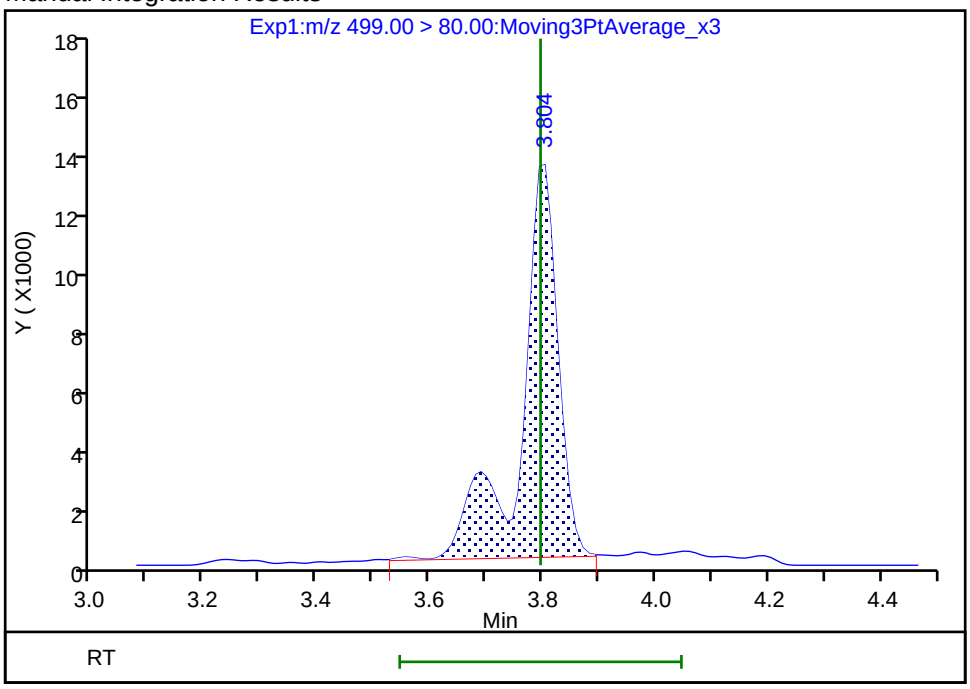
Processing Integration Results

RT: 3.80
Area: 65244
Amount: 0.129827
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 58453
Amount: 0.116314
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:54:15

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

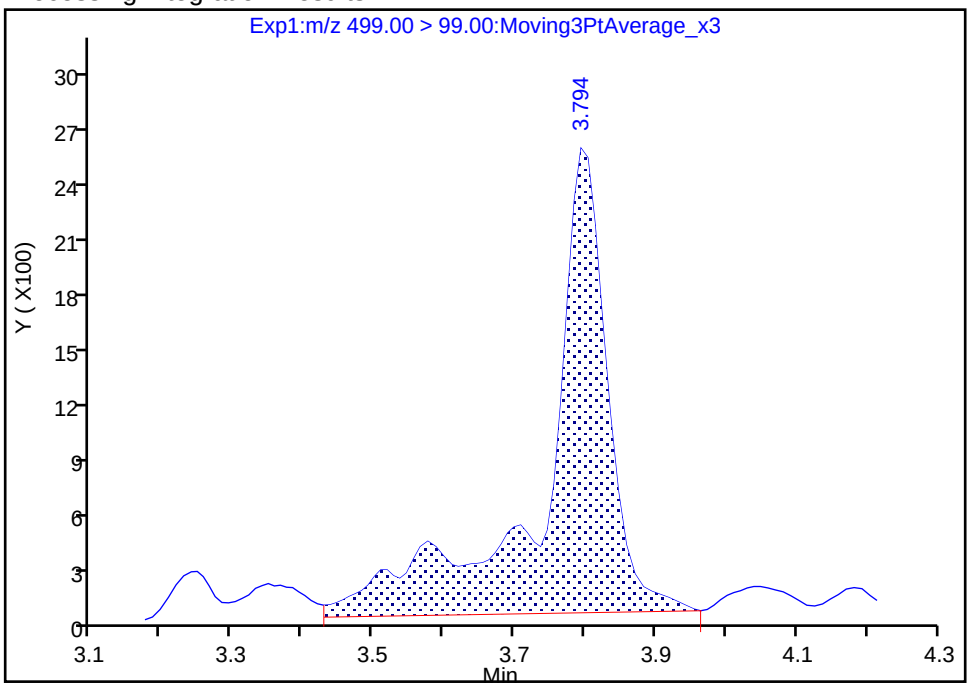
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A11.d				
Injection Date:	26-Feb-2021 14:09:13	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-A	Lab Sample ID:	200-181249-3		
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

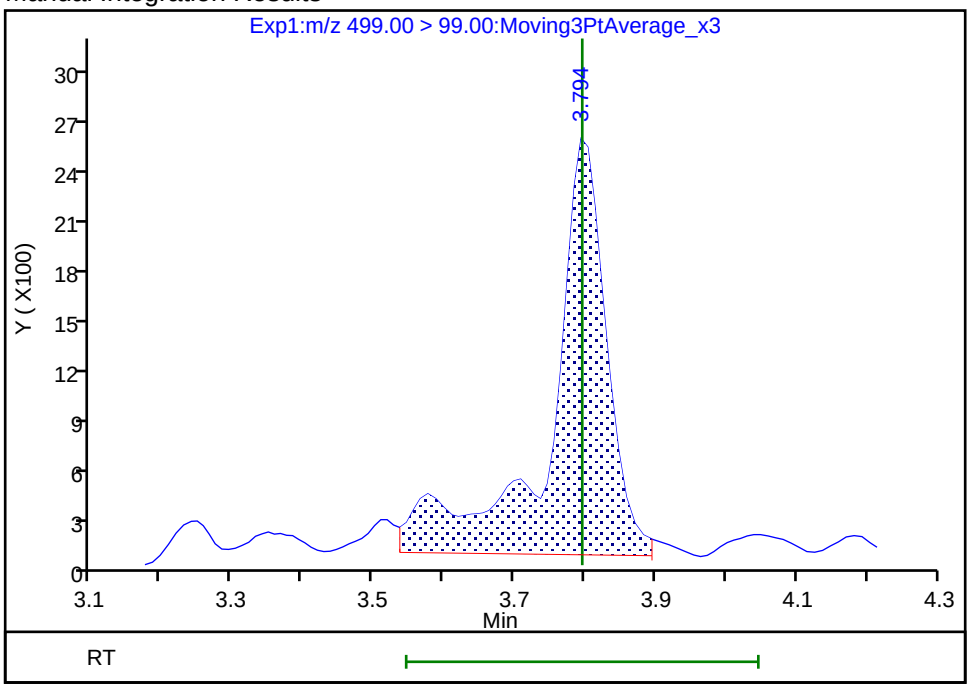
Processing Integration Results

RT: 3.79
Area: 16019
Amount: 0.129827
Amount Units: ng/ml



Manual Integration Results

RT: 3.79
Area: 14124
Amount: 0.116314
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:54:33

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

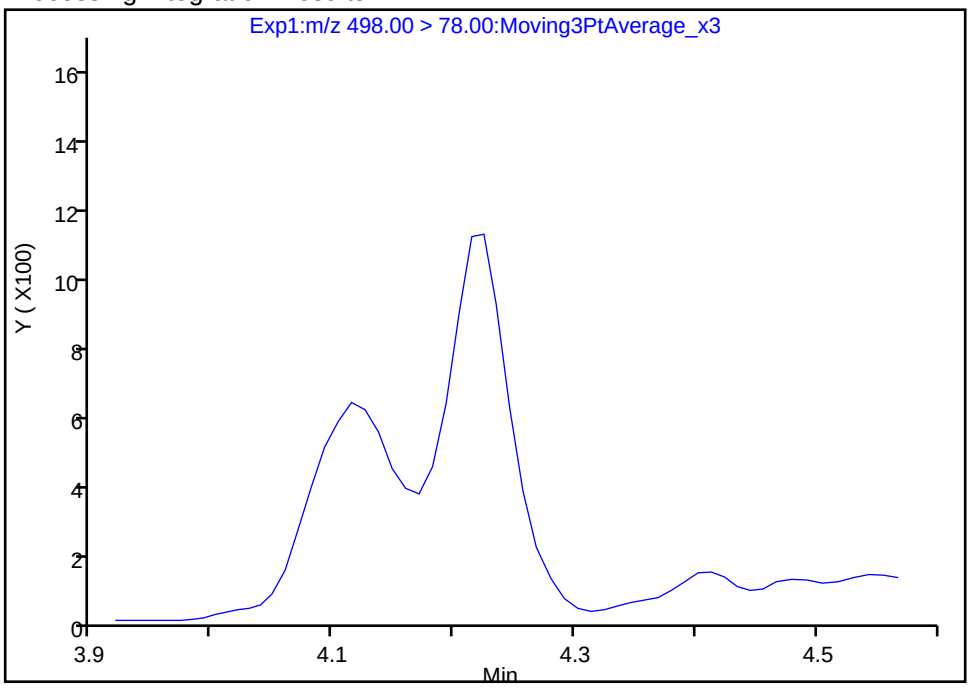
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A11.d				
Injection Date:	26-Feb-2021 14:09:13	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-A	Lab Sample ID:	200-181249-3		
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

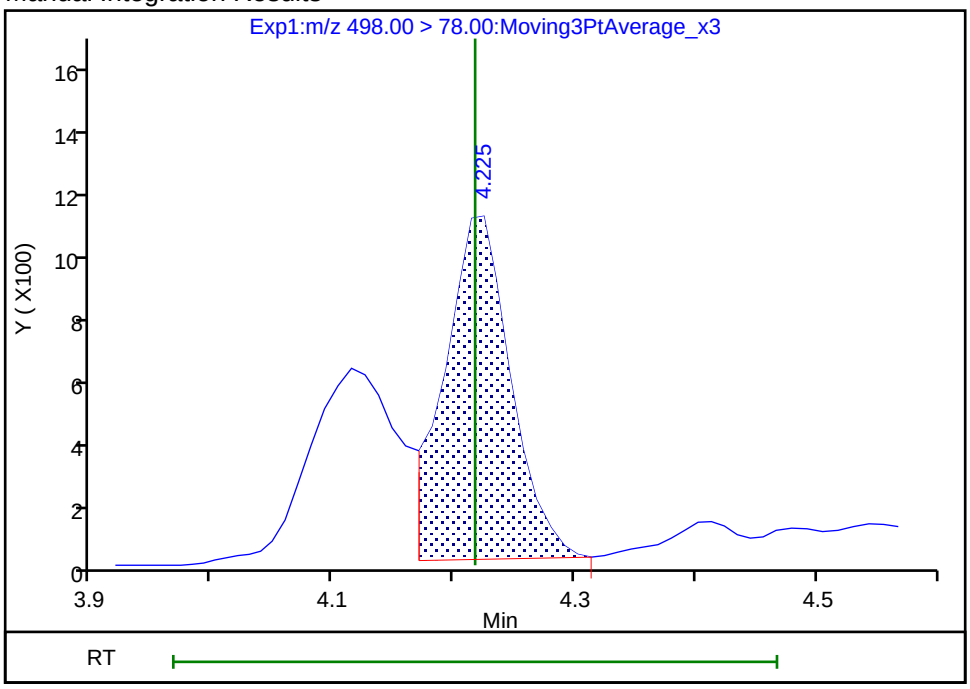
Not Detected
Expected RT: 4.22

Processing Integration Results



Manual Integration Results

RT: 4.22
Area: 4147
Amount: 0.005355
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:55:04
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

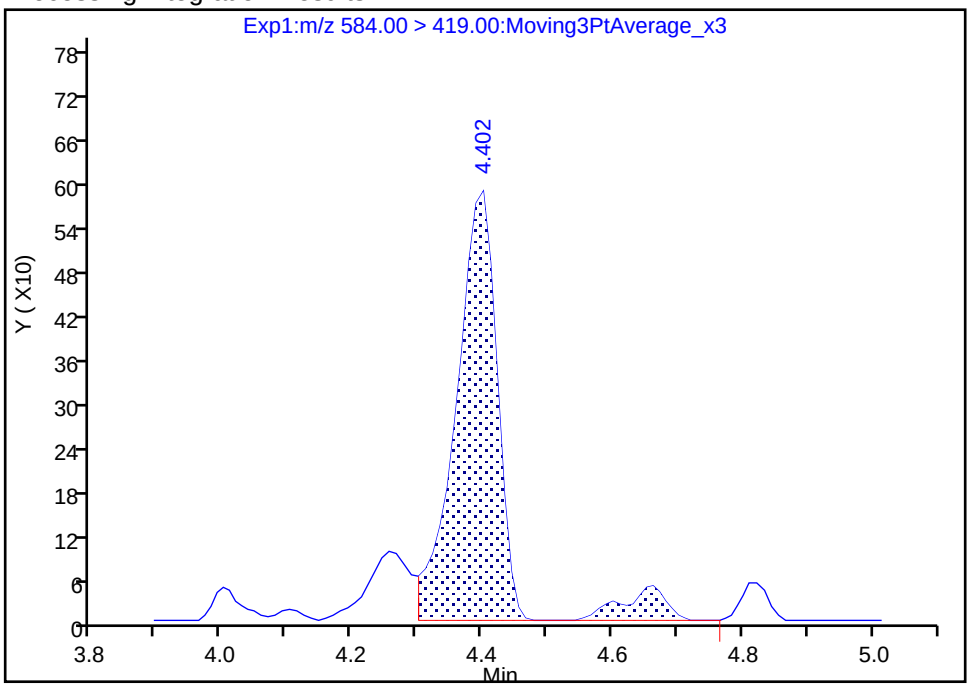
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A11.d				
Injection Date:	26-Feb-2021 14:09:13	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-A	Lab Sample ID:	200-181249-3		
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

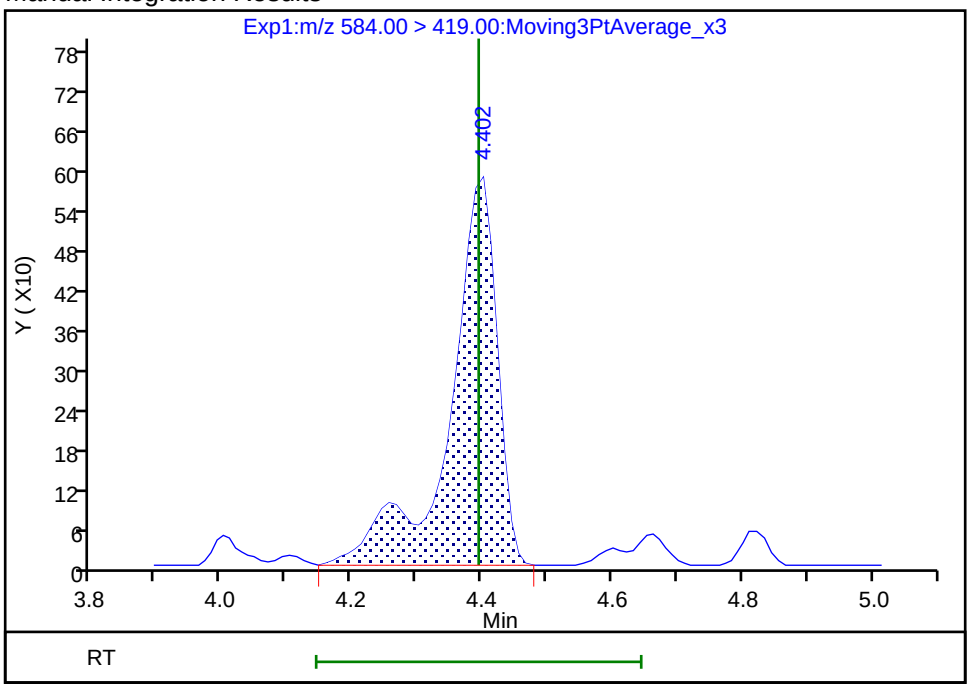
Processing Integration Results

RT: 4.40
Area: 2758
Amount: 0.069650
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 2971
Amount: 0.075030
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:55:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

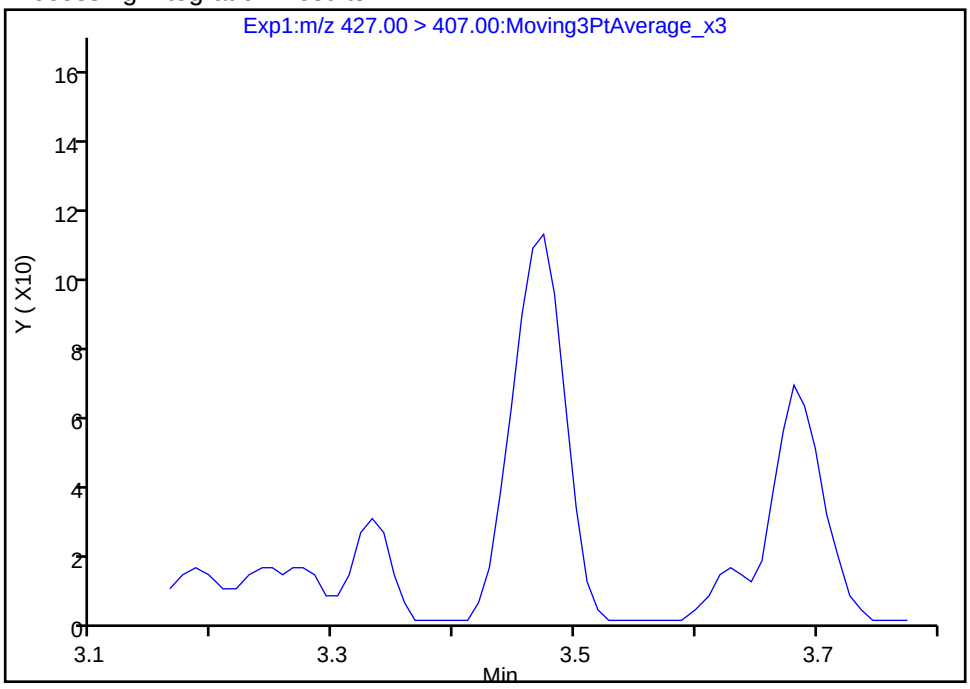
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A11.d				
Injection Date:	26-Feb-2021 14:09:13	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-A	Lab Sample ID:	200-181249-3		
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

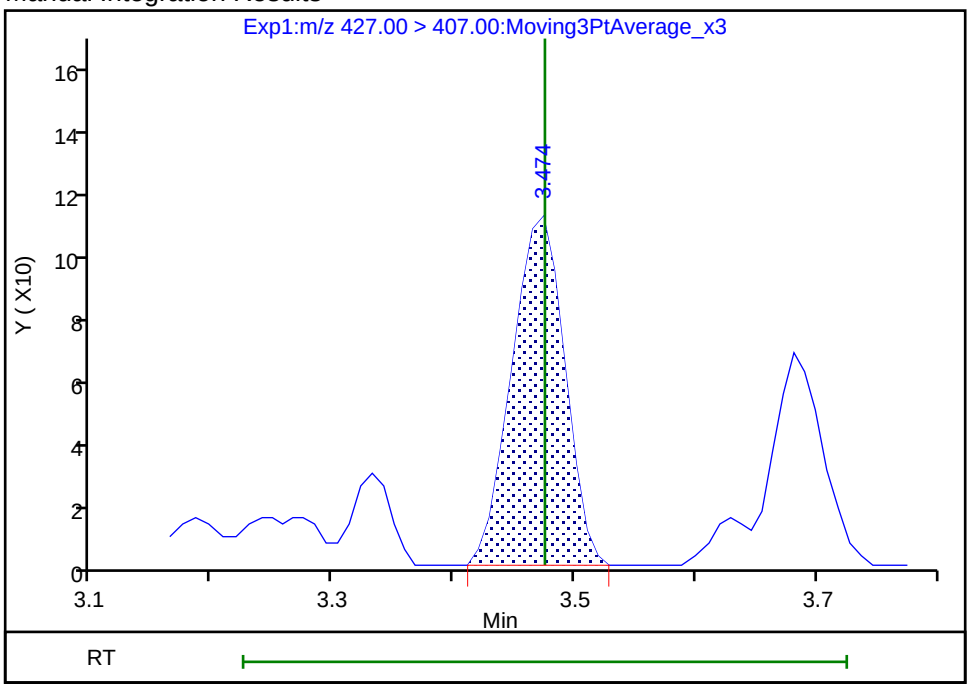
Not Detected
Expected RT: 3.48

Processing Integration Results



Manual Integration Results

RT: 3.47
Area: 334
Amount: 0.003175
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:53:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

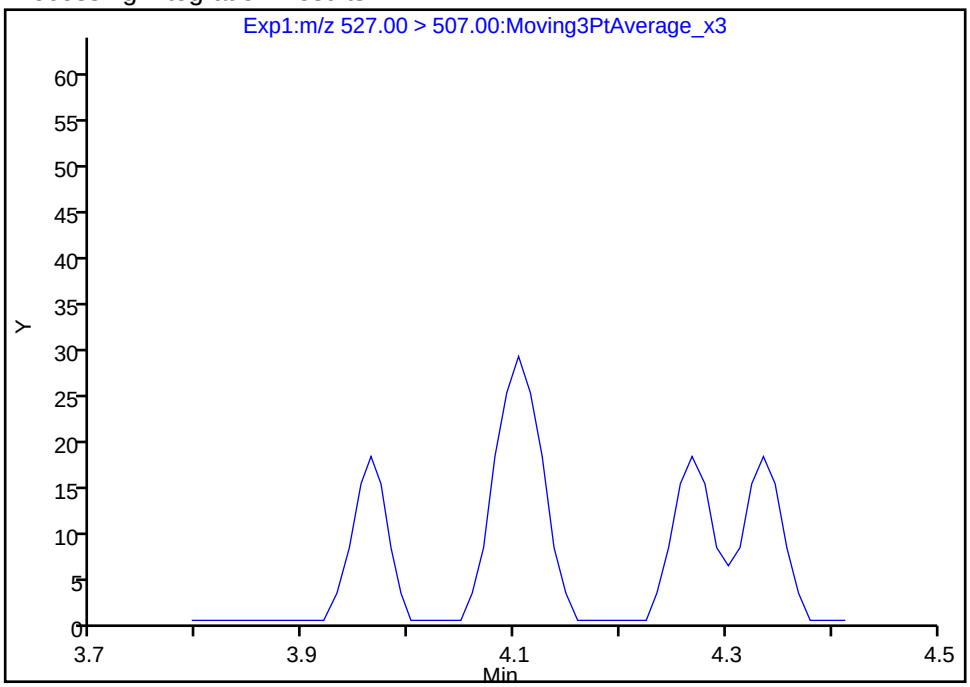
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A11.d				
Injection Date:	26-Feb-2021 14:09:13	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-A	Lab Sample ID:	200-181249-3		
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

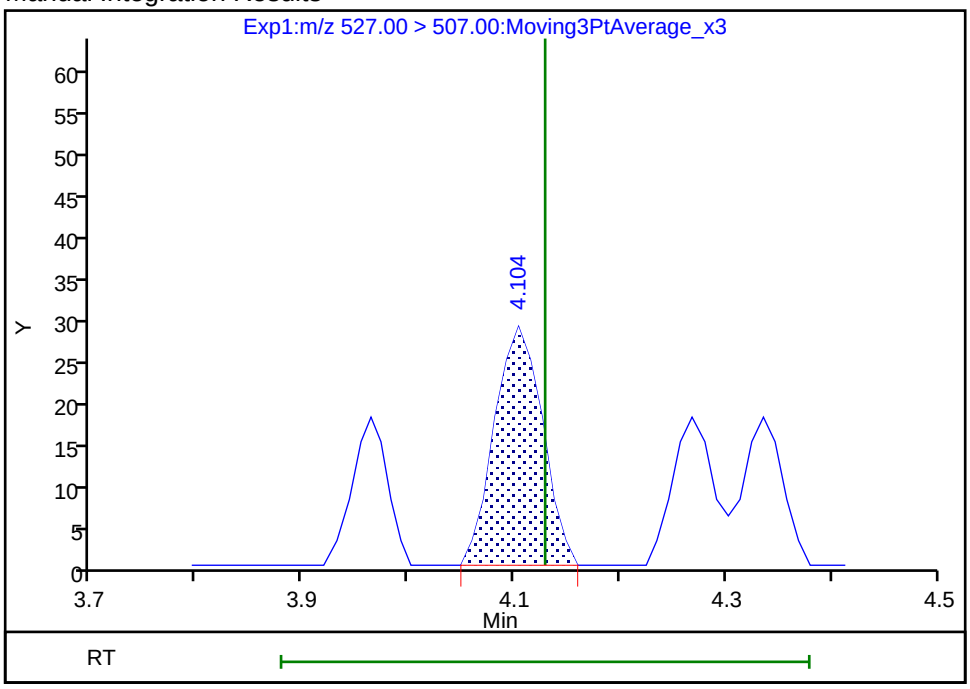
Not Detected
Expected RT: 4.13

Processing Integration Results



Manual Integration Results

RT: 4.10
Area: 91
Amount: 0.001072
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:54:55
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

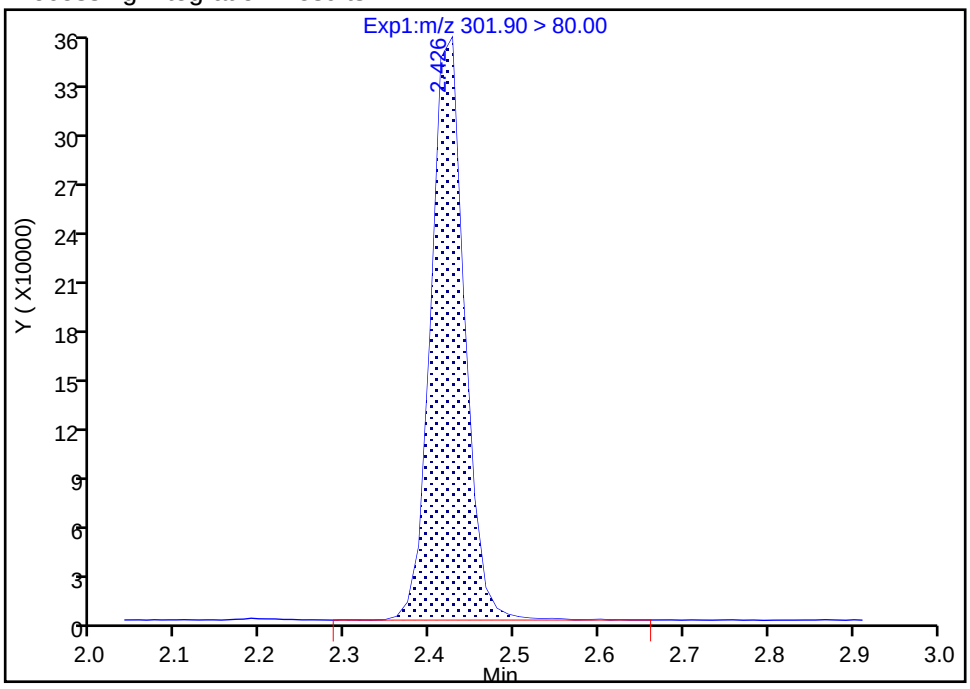
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A11.d				
Injection Date:	26-Feb-2021 14:09:13	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-A	Lab Sample ID:	200-181249-3		
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

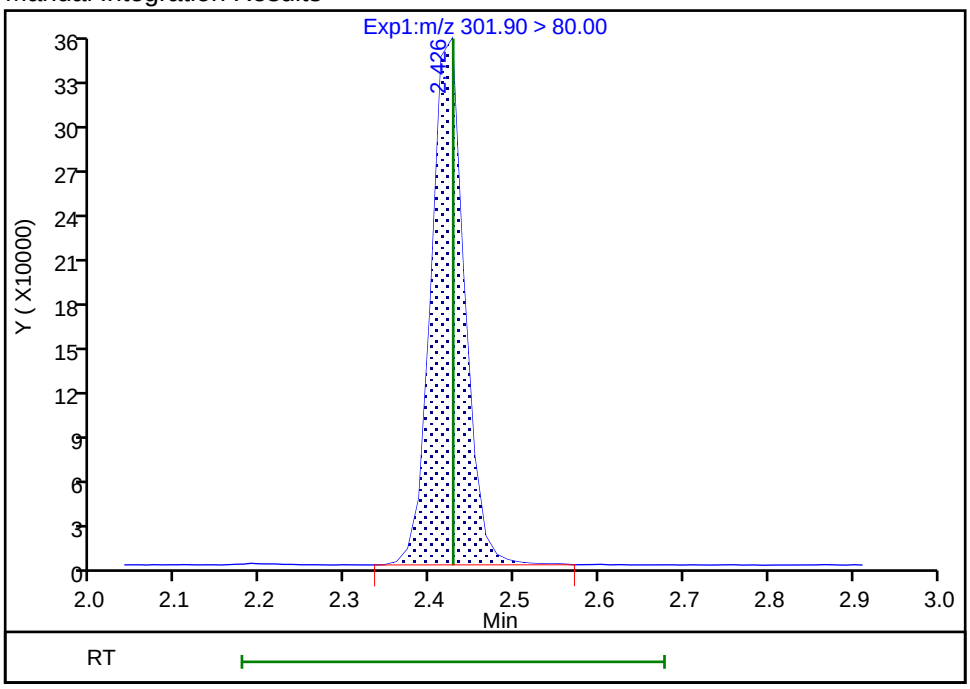
Processing Integration Results

RT: 2.43
Area: 979764
Amount: 1.041260
Amount Units: ng/ml



Manual Integration Results

RT: 2.43
Area: 977827
Amount: 1.039201
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:49:44

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12A (13-15) Lab Sample ID: 480-181249-4

Matrix: Solid Lab File ID: PA210226A14.d

Analysis Method: 537 (modified) Date Collected: 02/12/2021 14:16

Extraction Method: SHAKE Date Extracted: 02/25/2021 15:08

Sample wt/vol: 5.09(g) Date Analyzed: 02/26/2021 14:34

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 17.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 164334 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.53	J B	0.59	0.23
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.022	J	0.24	0.021
307-24-4	Perfluorohexanoic acid (PFHxA)	0.24	U	0.24	0.029
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.24	U	0.24	0.027
335-67-1	Perfluorooctanoic acid (PFOA)	0.033	J	0.24	0.017
375-95-1	Perfluorononanoic acid (PFNA)	0.24	U	0.24	0.024
335-76-2	Perfluorodecanoic acid (PFDA)	0.24	U	0.24	0.025
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.24	U	0.24	0.029
307-55-1	Perfluorododecanoic acid (PFDoA)	0.24	U	0.24	0.018
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.24	U	0.24	0.015
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.24	U	0.24	0.023
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.013	J B	0.24	0.010
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.24	U	0.24	0.018
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.24	U	0.24	0.018
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.24	U	0.24	0.080
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.24	U	0.24	0.023
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.24	U	0.24	0.010
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.38	U	2.38	0.040
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.38	U	2.38	0.036
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	2.38	U	2.38	0.026
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	2.38	U	2.38	0.034

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12A (13-15) Lab Sample ID: 480-181249-4

Matrix: Solid Lab File ID: PA210226A14.d

Analysis Method: 537 (modified) Date Collected: 02/12/2021 14:16

Extraction Method: SHAKE Date Extracted: 02/25/2021 15:08

Sample wt/vol: 5.09(g) Date Analyzed: 02/26/2021 14:34

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 17.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 164334 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	104		50-150
STL01892	13C4 PFHpA	99		50-150
STL00990	13C4 PFOA	99		50-150
STL00991	13C4 PFOS	105		50-150
STL00995	13C5 PFNA	95		50-150
STL00992	13C4 PFBA	39		25-150
STL00993	13C2 PFHxA	103		50-150
STL00996	13C2 PFDA	90		50-150
STL00997	13C2 PFUnA	88		50-150
STL00998	13C2 PFDoA	86		50-150
STL01056	13C8 FOSA	93		25-150
STL01893	13C5 PFPeA	94		25-150
STL02116	13C2 PFTeDA	76		50-150
STL02118	d3-NMeFOSAA	92		50-150
STL02117	d5-NEtFOSAA	93		50-150
STL02279	M2-6:2 FTS	104		25-150
STL02280	M2-8:2 FTS	105		25-150
STL02337	13C3 PFBS	96		50-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A14.d
Lims ID: 480-181249-A-4-A
Client ID: SB-12A (13-15)
Sample Type: Client
Inject. Date: 26-Feb-2021 14:34:08 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 480-181249-A-4-A
Misc. Info.: 200-0044972-014 Plate: 1 Rack: 2
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 01-Mar-2021 10:52:47 Calib Date: 22-Dec-2020 13:29:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1604

First Level Reviewer: khanphomeea Date: 01-Mar-2021 10:15:41
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.080	2.082	-0.002	0.597	465195	0.4935		39.5	5903	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.080	2.082	-0.002	1.000	83897	0.2250			26.6	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.398	2.401	-0.003	0.688	802230	1.18		94.2	3083	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.385	2.401	-0.016	0.995	6541	0.009204			0.3	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.411	2.427	-0.016	0.692	997346	1.11		95.7	117400	M
5 Perfluorobutanesulfonic acid										R
298.90 > 80.00	2.424	2.427	-0.003	1.005	5311	0.005472	Target=2.21		8.0	R
298.90 > 99.00	2.424	2.427	-0.003	1.005	1433		3.71(1.11-3.32)		1.0	
D 7 13C2 PFHxA										
315.00 > 270.00	2.756	2.759	-0.003	0.791	919154	1.29		103	3113	
6 Perfluorohexanoic acid										RM
313.00 > 269.00	2.756	2.759	-0.003	1.000	5818	0.007243	Target=12.83		1.1	RM
313.00 > 119.00	2.756	2.759	-0.003	1.000	968		6.01(6.42-19.25)		1.5	M
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.122	3.123	-0.001	1.000	4717	0.005778	Target=4.15		19.2	M
399.00 > 99.00	3.122	3.123	-0.001	1.000	1606		2.94(2.08-6.23)		1.5	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.122	3.123	-0.001	0.896	819184	1.23		104	1930	
D 9 13C4 PFHpA										
367.00 > 322.00	3.122	3.133	-0.011	0.896	845954	1.24		99.0	2347	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.132	3.133	-0.001	1.003	5487	0.007423	Target=3.66		1.6	
363.00 > 169.00	3.122	3.133	-0.011	1.000	2316		2.37(1.83-5.49)		5.7	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.474	3.475	-0.001	0.916	1834	0.002824	Target=5.95		12.4	M
449.00 > 99.00	3.465	3.475	-0.010	0.913	269		6.82(2.98-8.93)		1.4	M
D 12 M2-6:2 FTS										M
429.00 > 81.00	3.474	3.475	-0.001	0.997	102967	1.24		104	321	M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.483	3.475	0.008	1.003	328	0.003401			6.8	M
D 14 13C4 PFOA										
417.00 > 372.00	3.483	3.484	-0.001	1.000	855495	1.23		98.6	2285	
* 62 13C2 PFOA										
415.00 > 370.00	3.483	3.484	-0.001		877099	1.25			1767	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.483	3.493	-0.010	1.000	10284	0.0139	Target=2.58		3.4	
413.00 > 169.00	3.483	3.493	-0.010	1.000	3381		3.04(1.29-3.87)		7.1	M
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.795	3.796	-0.001	1.000	3859	0.006975	Target=5.65		3.8	RM
499.00 > 99.00	3.795	3.796	-0.001	1.000	2183		1.77(2.82-8.47)		2.7	M
D 18 13C4 PFOS										
503.00 > 80.00	3.795	3.796	-0.001	1.089	574876	1.26		105	2214	
D 19 13C5 PFNA										
468.00 > 423.00	3.814	3.816	-0.002	1.095	726525	1.19		94.9	3933	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.814	3.816	-0.002	1.000	3489	0.005423	Target=7.44		0.7	M
463.00 > 169.00	3.804	3.816	-0.012	0.997	465		7.50(3.72-11.16)		5.8	M
D 23 13C2 PFDA										
515.00 > 470.00	4.115	4.118	-0.003	1.181	655931	1.12		89.6	4089	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.115	4.129	-0.014	1.181	107777	1.25		105	457	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.104	4.129	-0.025	0.997	90	0.001470			2.2	M
D 21 13C8 FOSA										
506.00 > 78.00	4.205	4.207	-0.002	1.207	1004973	1.17		93.4	2221	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.205	4.217	-0.012	1.000	2694	0.003344			12.7	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.246	4.260	-0.014	1.219	48761	1.15		91.8	610	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.257	4.260	-0.003	1.003	127	0.003673			2.2	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.336	4.350	-0.014	1.143	567	0.001723	Target=2.80		2.8	M
599.00 > 99.00	4.347	4.350	-0.003	1.146	254		2.23(1.40-4.19)		1.7	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.369	4.373	-0.004	1.254	528979	1.10		88.0	3651	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.380	4.384	-0.004	1.257	47641	1.16		92.8	724	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.402	4.395	0.007	1.005	306	0.008673			6.0	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 36 13C2 PFDoA										
615.00 > 570.00	4.601	4.606	-0.005	1.321	545948	1.08		86.0	2094	
37 Perfluorododecanoic acid										RM
613.00 > 569.00	4.601	4.606	-0.005	1.000	3400	0.007078	Target=6.91		0.9	RM
613.00 > 169.00	4.591	4.606	-0.015	0.998	74		45.95(3.45-10.36)		1.6	M
41 Perfluorotridecanoic acid										RM
663.00 > 619.00	4.810	4.806	0.004	1.045	914	0.002345	Target=4.39		0.7	RM
663.00 > 169.00	4.792	4.806	-0.014	1.042	110		8.31(2.20-6.59)		2.8	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.995	4.998	-0.003	1.434	357502	0.9518		76.1	1206	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	4.985	4.998	-0.013	0.998	150	0.002828	Target=1.06		8.5	M
713.00 > 219.00	4.975	4.998	-0.023	0.996	268		0.56(0.53-1.59)		11.4	M

QC Flag Legend

Processing Flags
R - Failed Signal Ratio Test
Review Flags
M - Manually Integrated

Report Date: 01-Mar-2021 10:53:20 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A14.d

Injection Date: 26-Feb-2021 14:34:08 Instrument ID: LC812

Lims ID: 480-181249-A-4-A Lab Sample ID: 200-181249-4

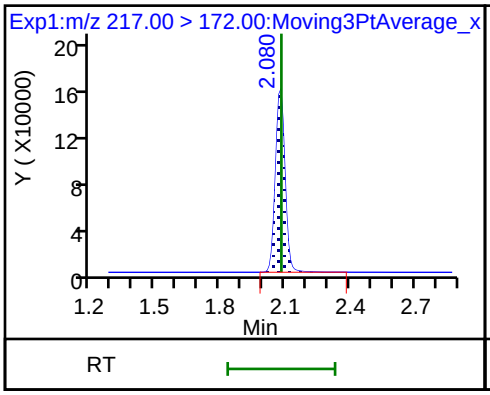
Client ID: SB-12A (13-15)

Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14

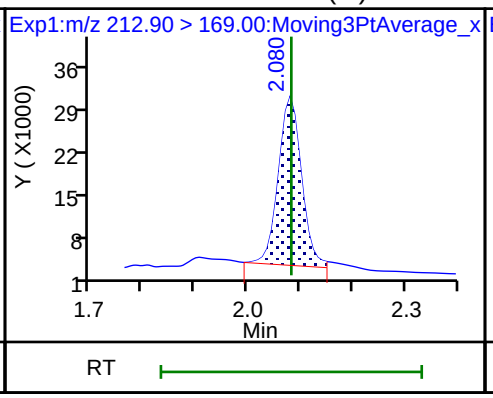
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

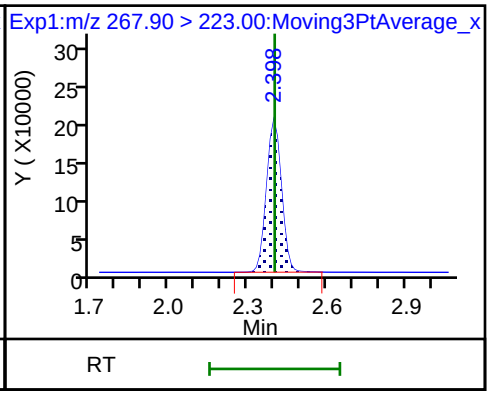
D 1 13C4 PFBA



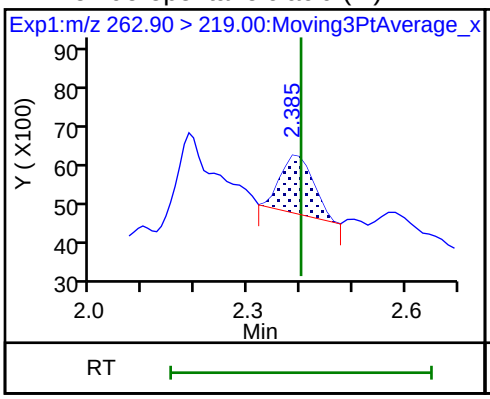
2 Perfluorobutanoic acid (M)



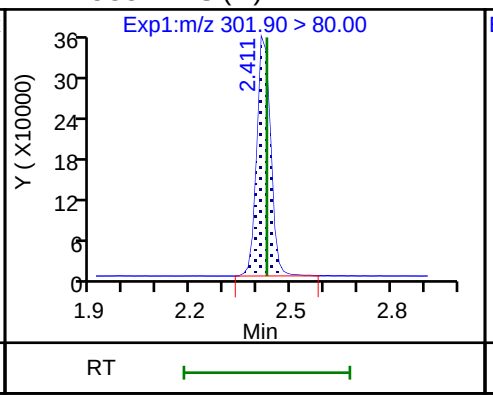
D 3 13C5 PFPeA



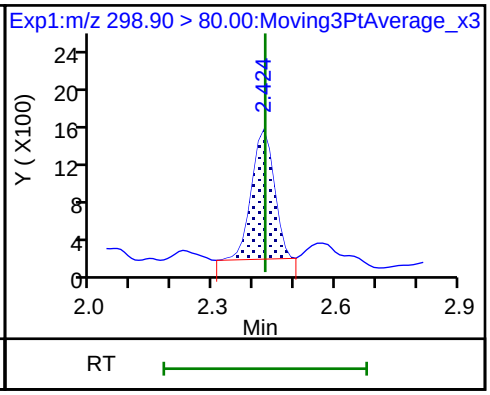
4 Perfluoropentanoic acid (M)



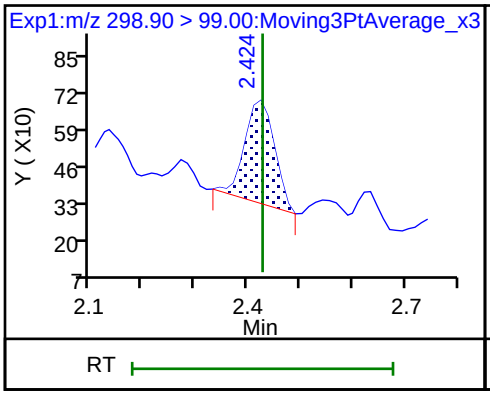
D 47 13C3 PFBS (M)



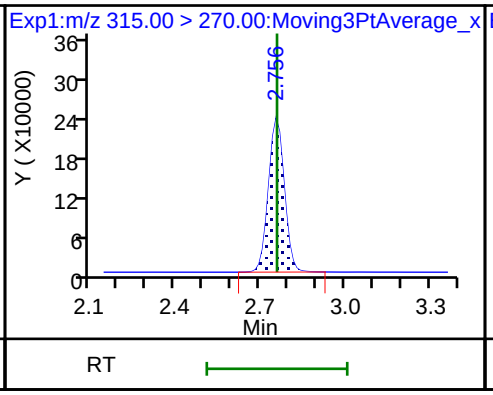
5 Perfluorobutanesulfonic acid



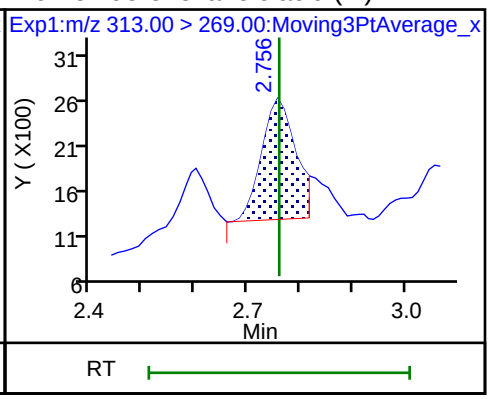
5 Perfluorobutanesulfonic acid



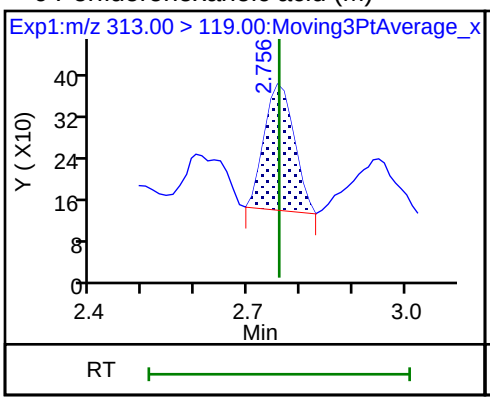
D 7 13C2 PFHxA



6 Perfluorohexanoic acid (M)



6 Perfluorohexanoic acid (M)



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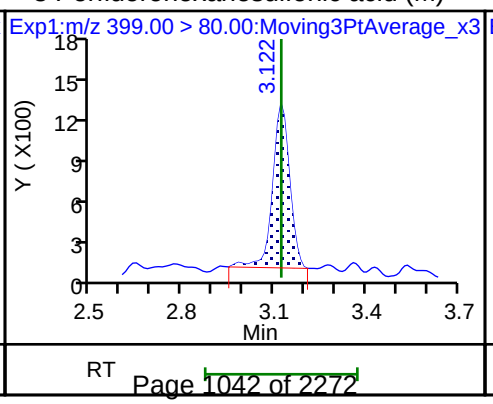

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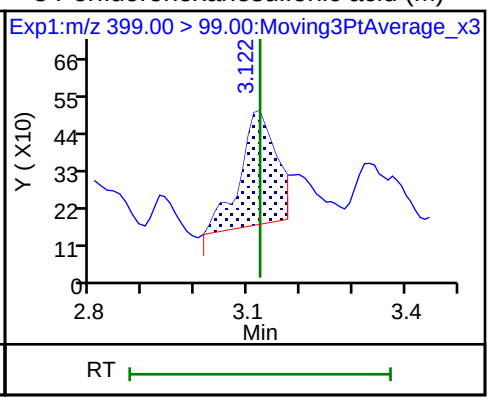
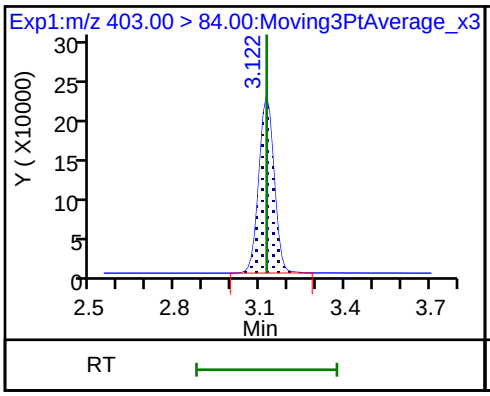
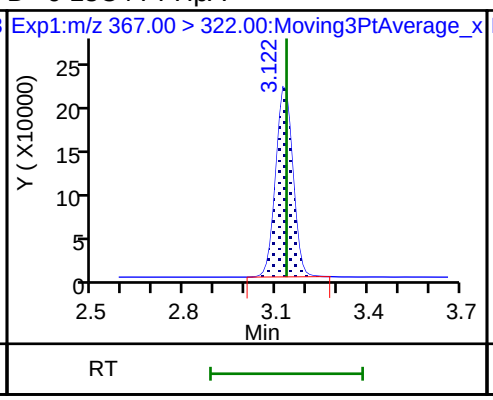


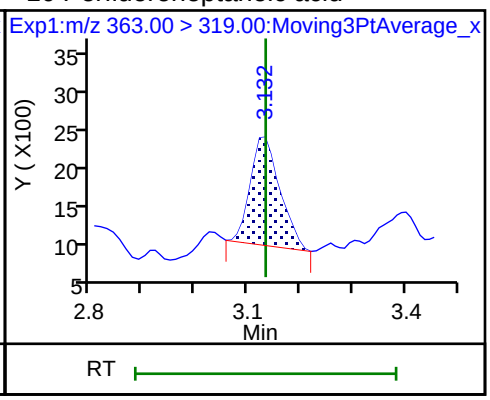
D 11 18O2 PFHxS



D 9 13C4 PFHpA



10 Perfluoroheptanoic acid



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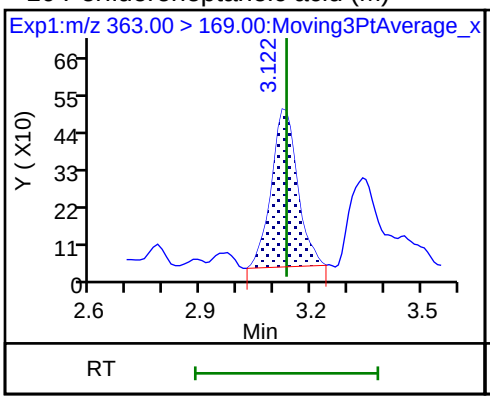

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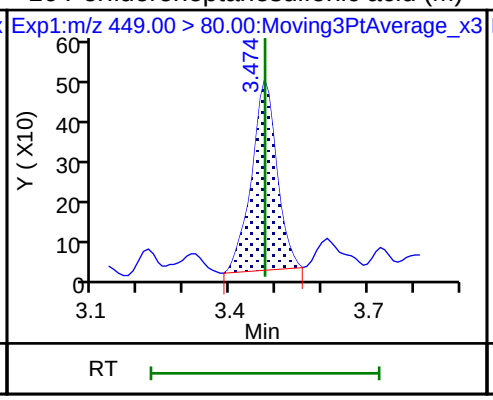
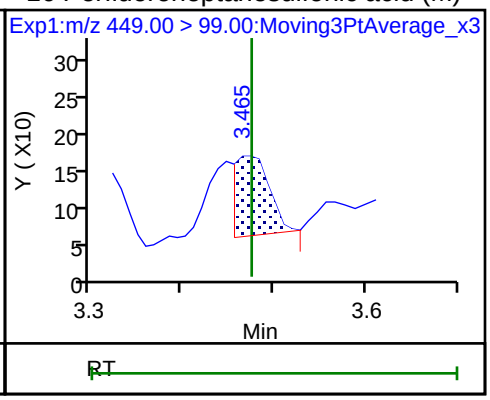
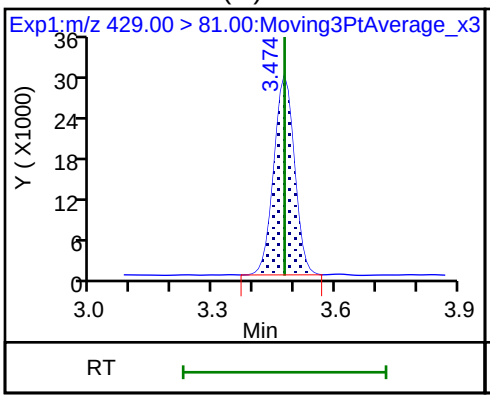


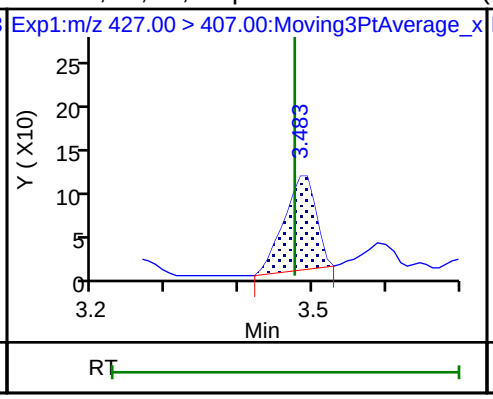
16 Perfluoroheptanesulfonic acid (M)



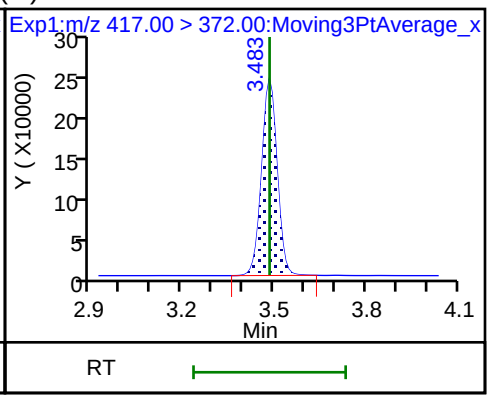
D 12 M2-6:2 FTS (M)



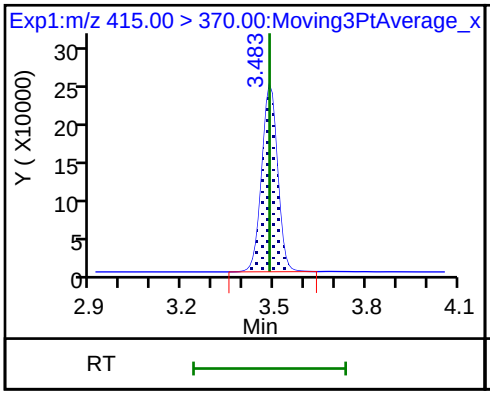
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



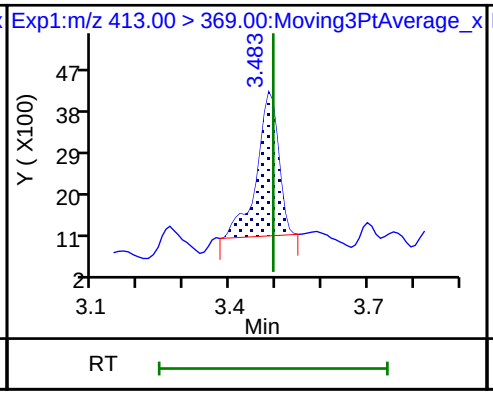
D 14 13C4 PFOA



* 62 13C2 PFOA



15 Perfluorooctanoic acid



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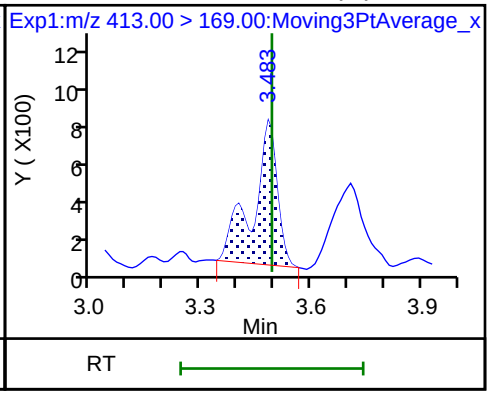

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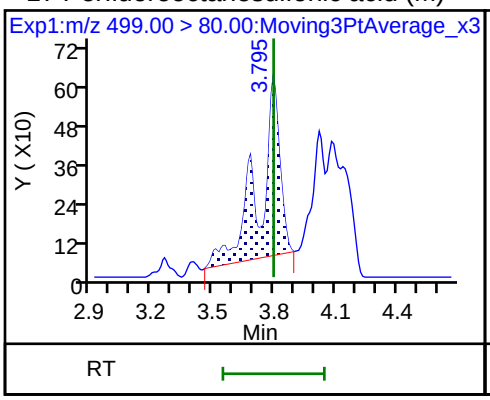

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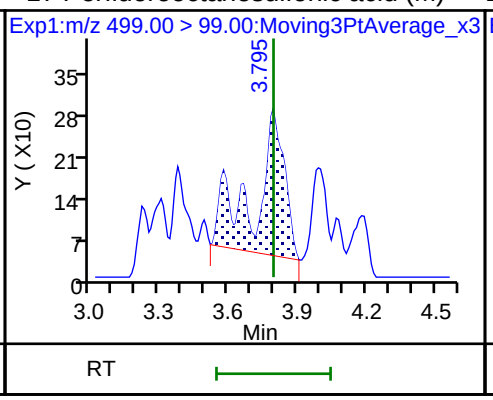
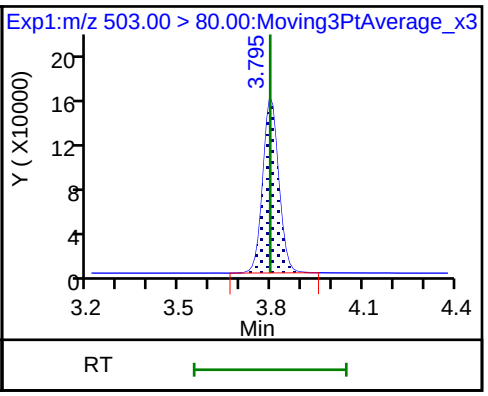


D 18 13C4 PFOS



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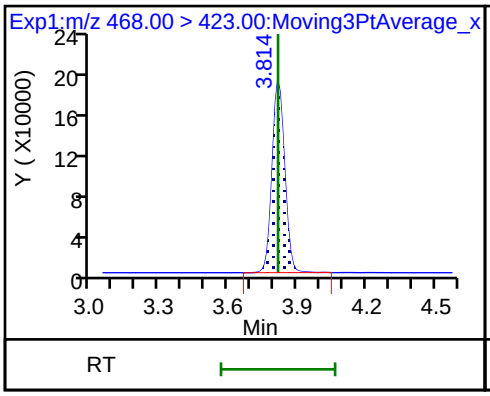
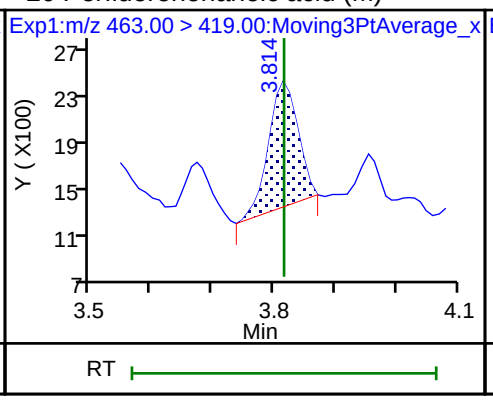


20 Perfluorononanoic acid (M)



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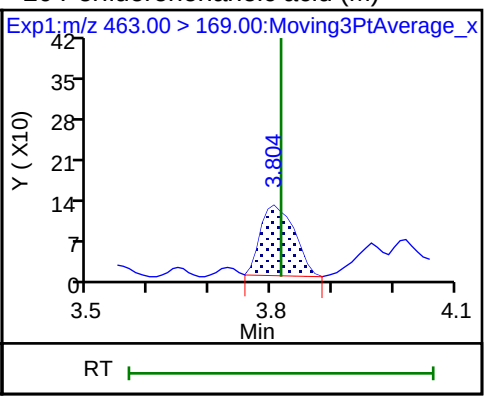
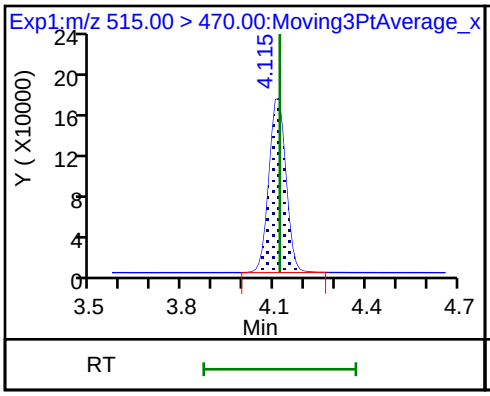


D 23 13C2 PFDA



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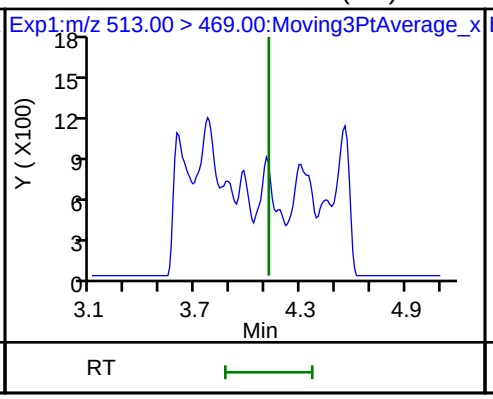

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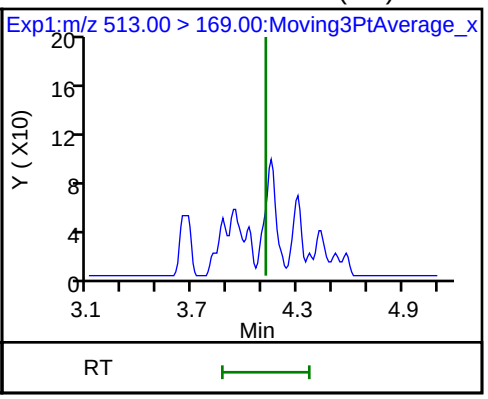
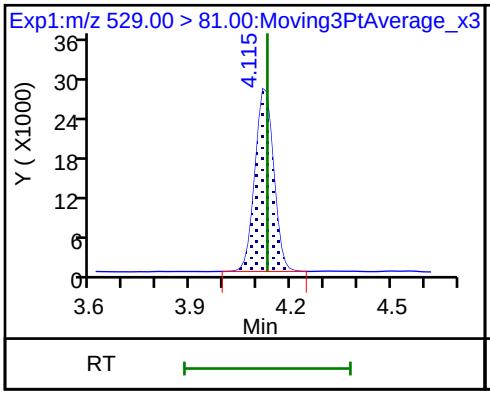
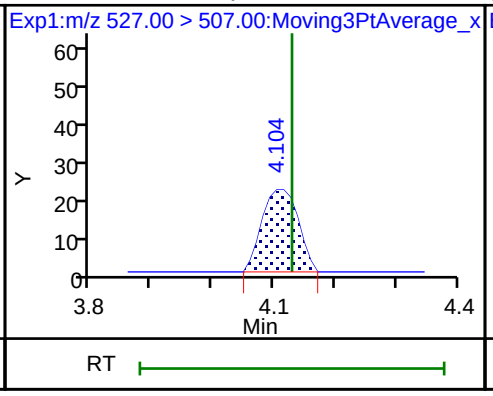


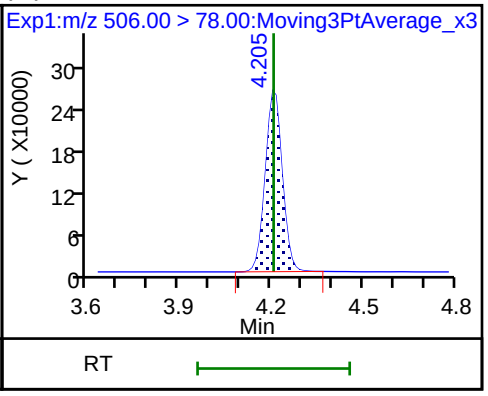
D 26 M2-8:2 FTS



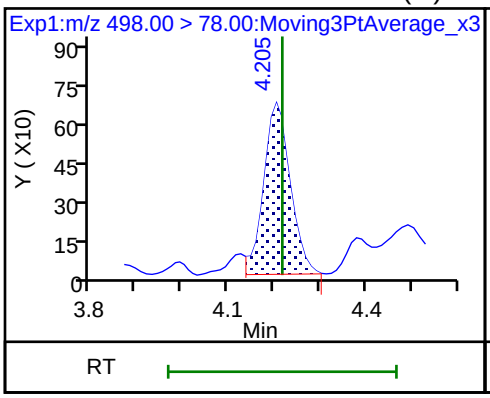
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



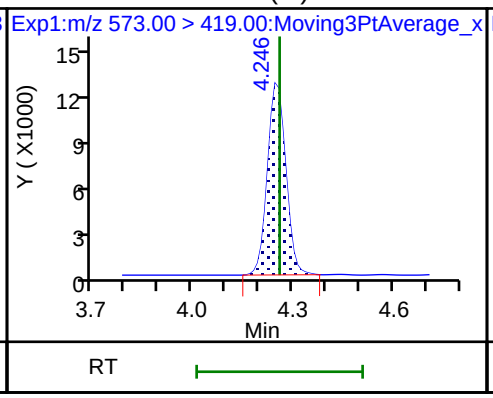
D 21 13C8 FOSA



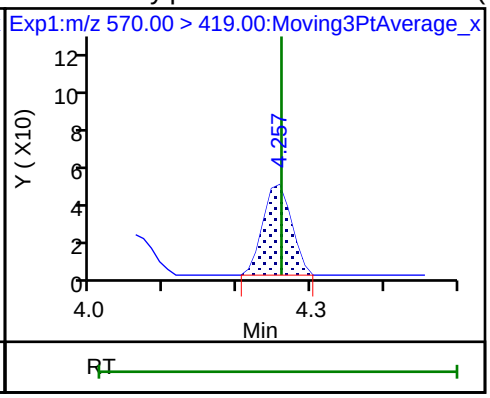
22 Perfluorooctanesulfonamide (M)



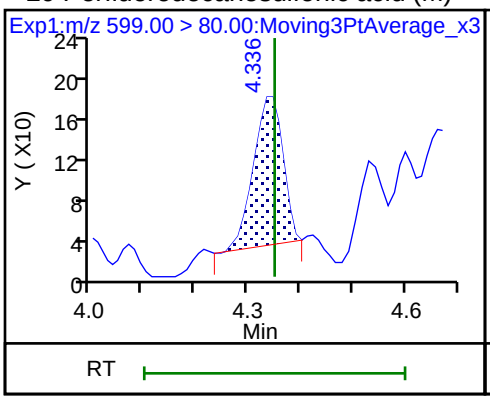
D 27 d3-NMeFOSAA (M)



28 N-methylperfluorooctanesulfonami (M)



29 Perfluorodecanesulfonic acid (M)



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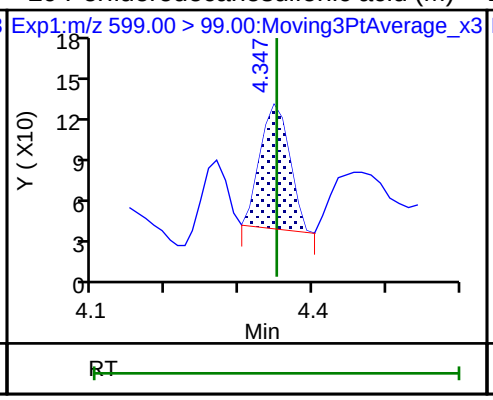
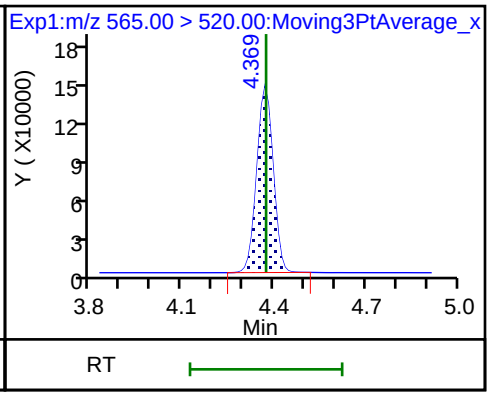
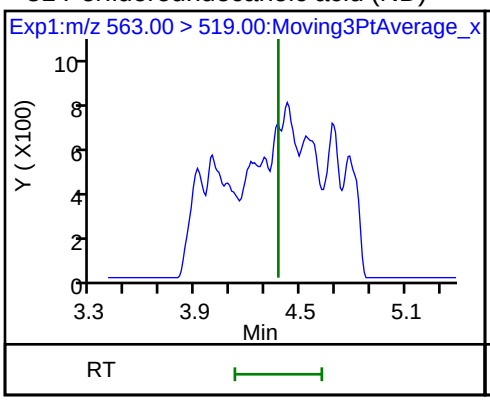


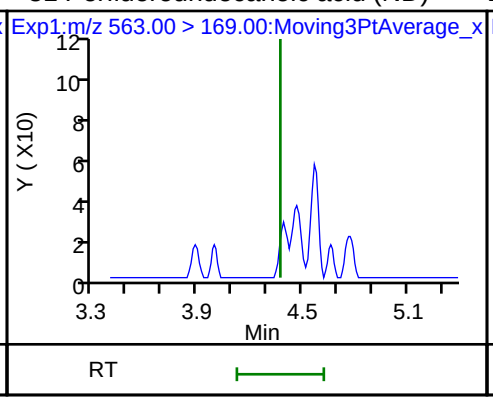
D 30 13C2 PFUnA



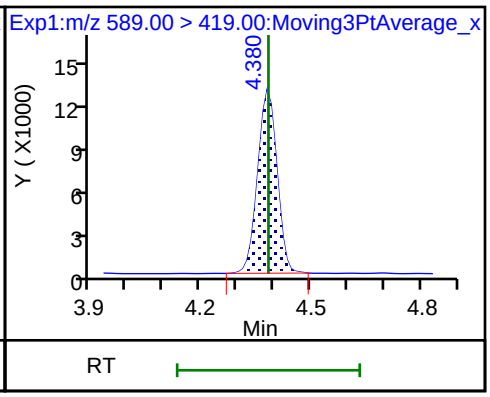
31 Perfluoroundecanoic acid (ND)



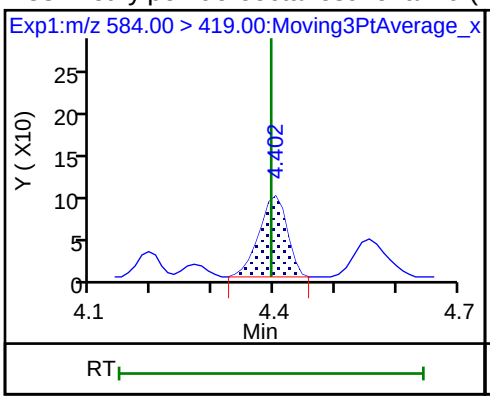
31 Perfluoroundecanoic acid (ND)



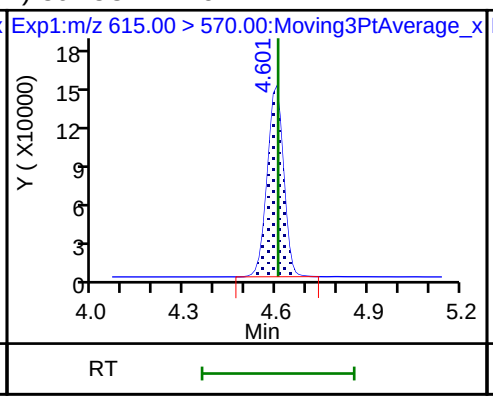
D 32 d5-NEtFOSAA



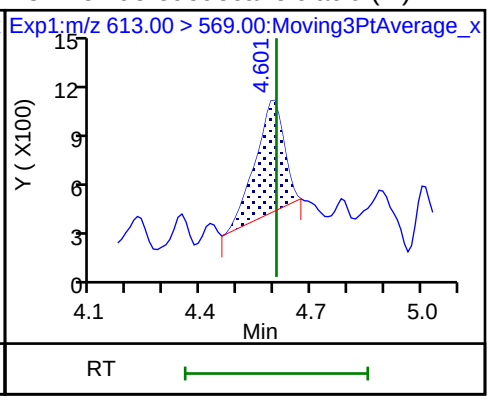
33 N-ethylperfluorooctanesulfonamid (ND)



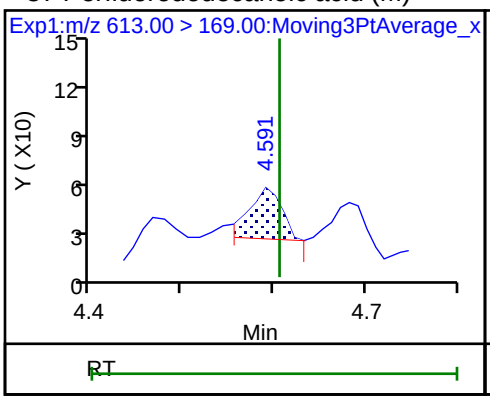
D 36 13C2 PFDoA



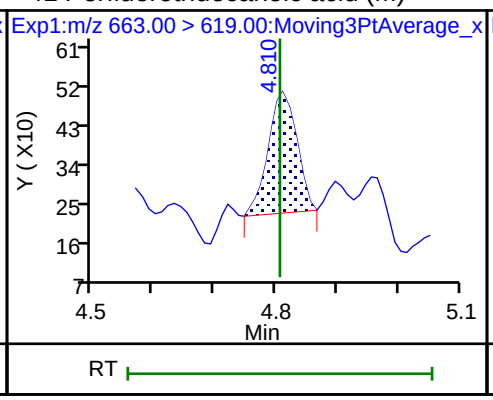
37 Perfluorododecanoic acid (M)



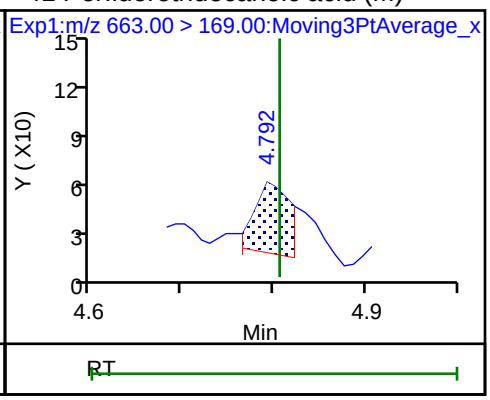
37 Perfluorododecanoic acid (M)



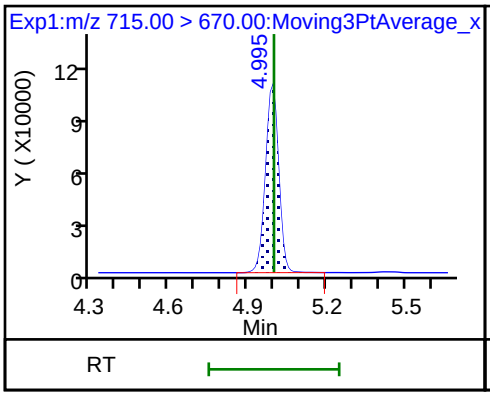
41 Perfluorotridecanoic acid (M)



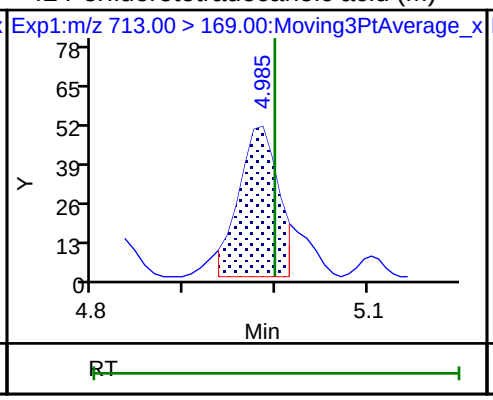
41 Perfluorotridecanoic acid (M)



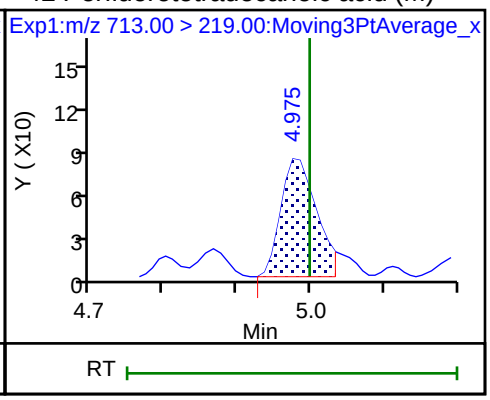
D 43 13C2 PFTeDA



42 Perfluorotetradecanoic acid (M)



42 Perfluorotetradecanoic acid (M)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

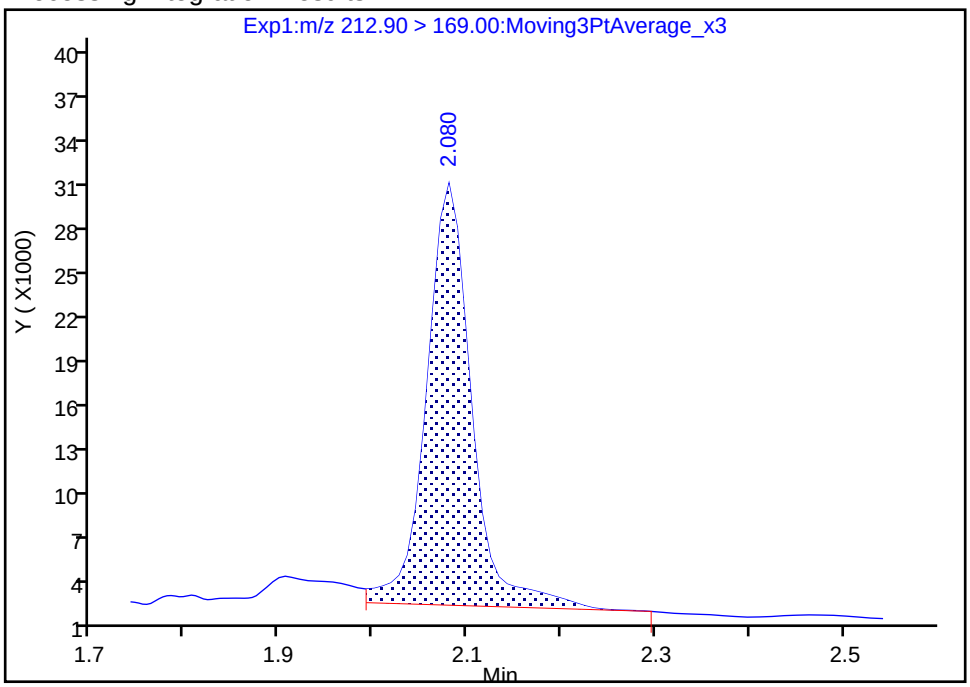
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A14.d				
Injection Date:	26-Feb-2021 14:34:08	Instrument ID:	LC812		
Lims ID:	480-181249-A-4-A	Lab Sample ID:	200-181249-4		
Client ID:	SB-12A (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

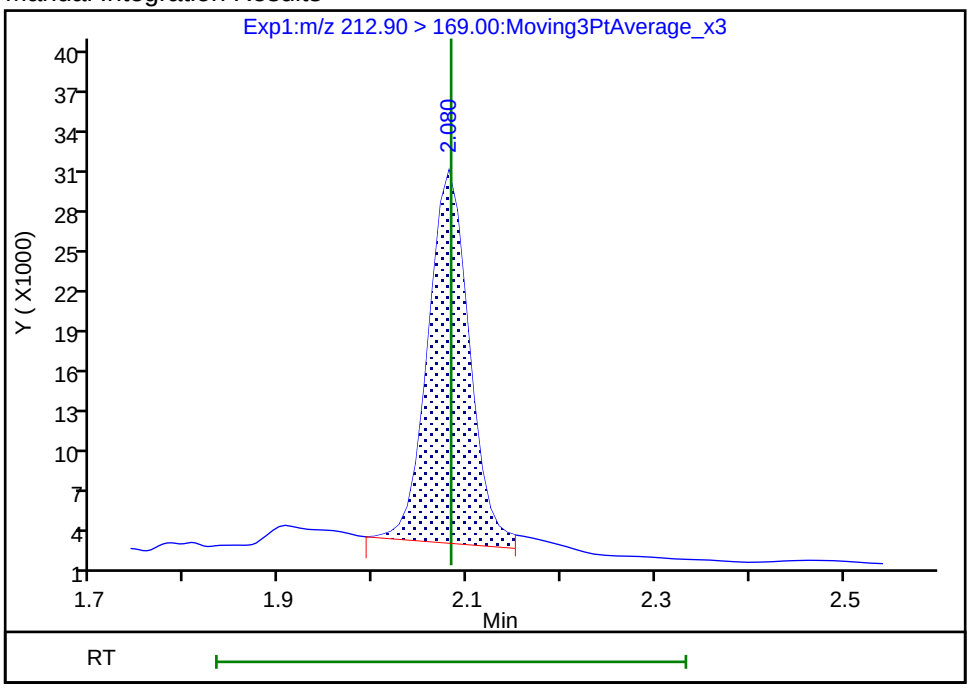
Processing Integration Results

RT: 2.08
Area: 94024
Amount: 0.252140
Amount Units: ng/ml



Manual Integration Results

RT: 2.08
Area: 83897
Amount: 0.224983
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:11:05

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

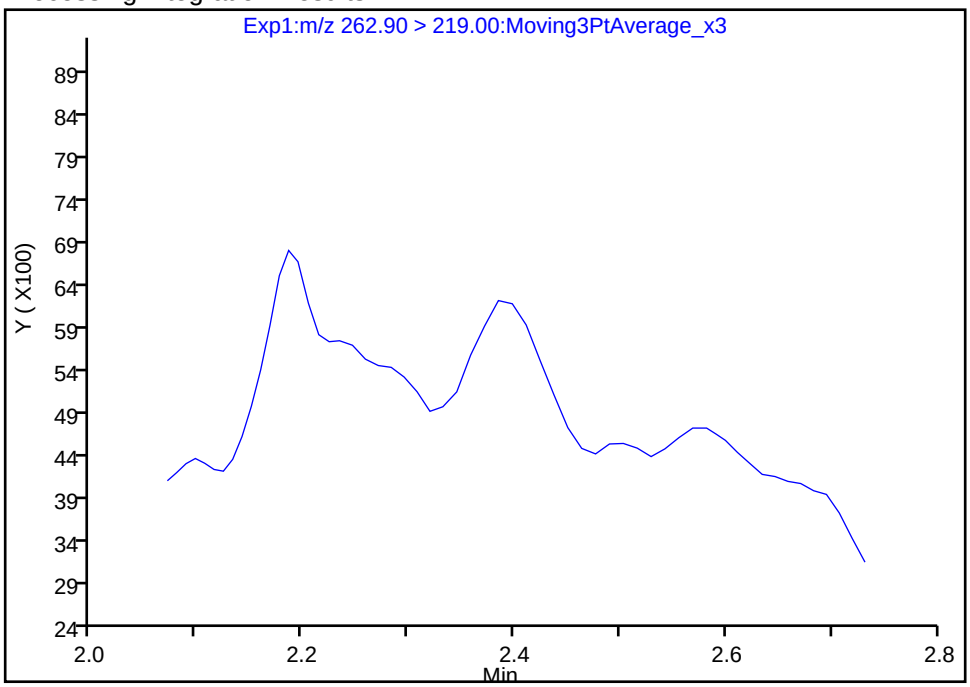
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A14.d				
Injection Date:	26-Feb-2021 14:34:08	Instrument ID:	LC812		
Lims ID:	480-181249-A-4-A	Lab Sample ID:	200-181249-4		
Client ID:	SB-12A (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

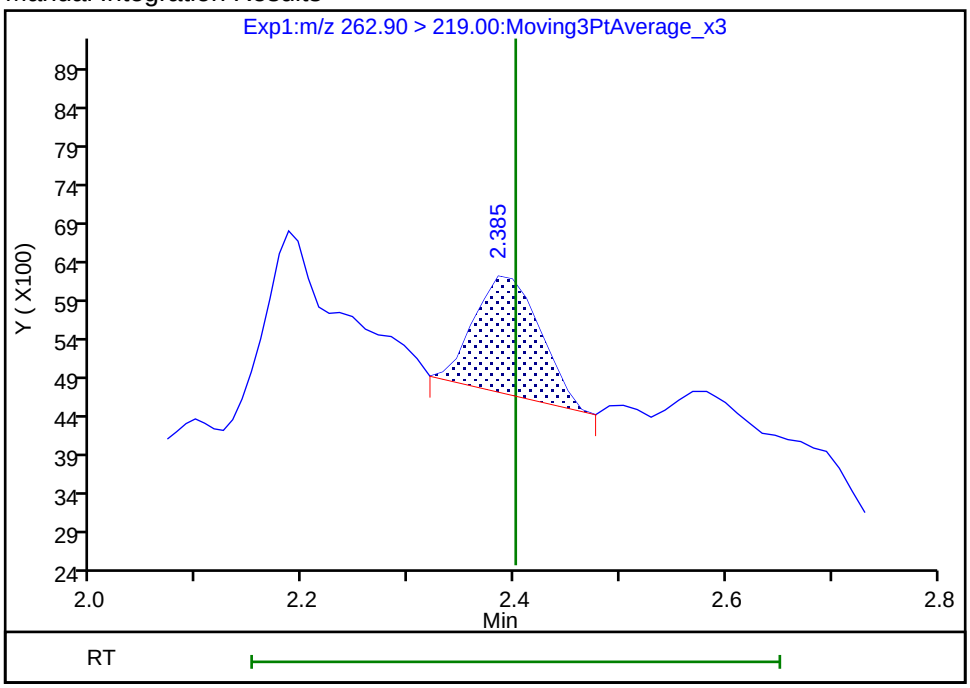
Not Detected
Expected RT: 2.40

Processing Integration Results



Manual Integration Results

RT: 2.38
Area: 6541
Amount: 0.009204
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:11:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

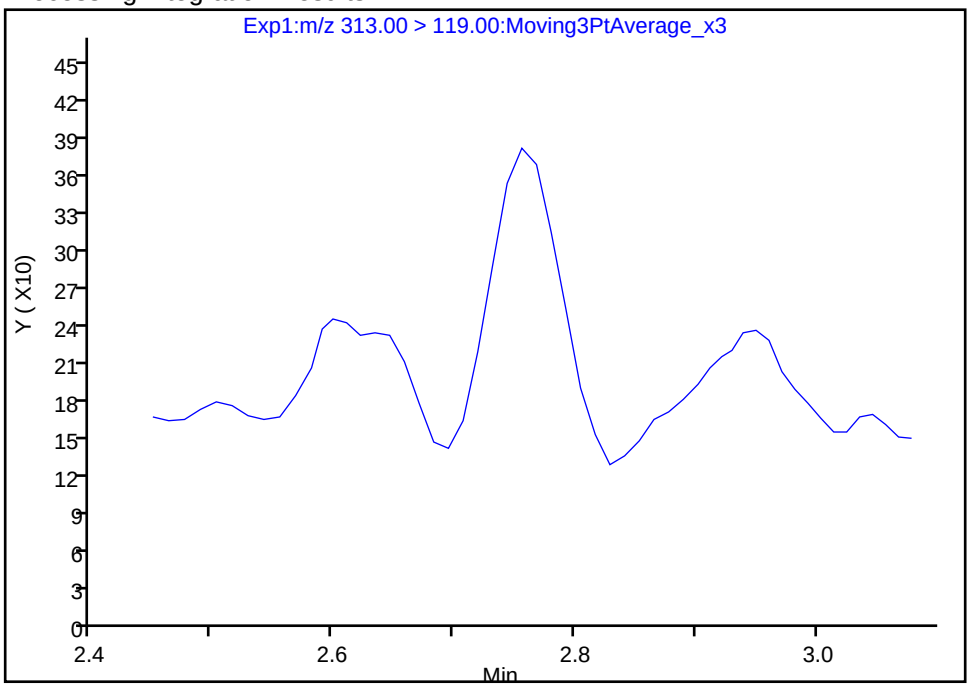
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A14.d				
Injection Date:	26-Feb-2021 14:34:08	Instrument ID:	LC812		
Lims ID:	480-181249-A-4-A	Lab Sample ID:	200-181249-4		
Client ID:	SB-12A (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

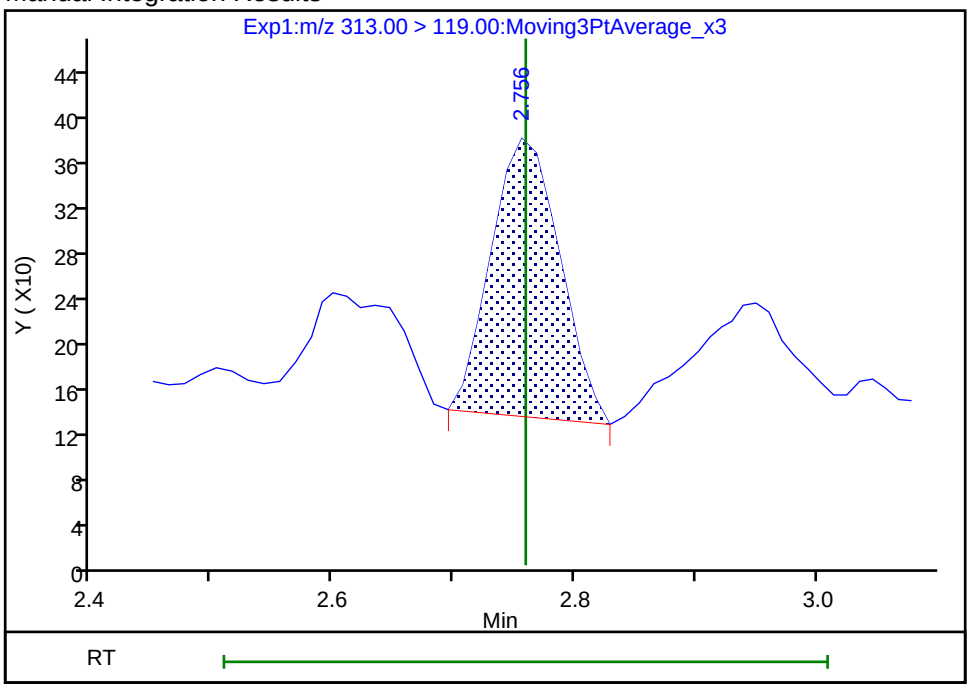
Not Detected
Expected RT: 2.76

Processing Integration Results



Manual Integration Results

RT: 2.76
Area: 968
Amount: 0.007243
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:11:26
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

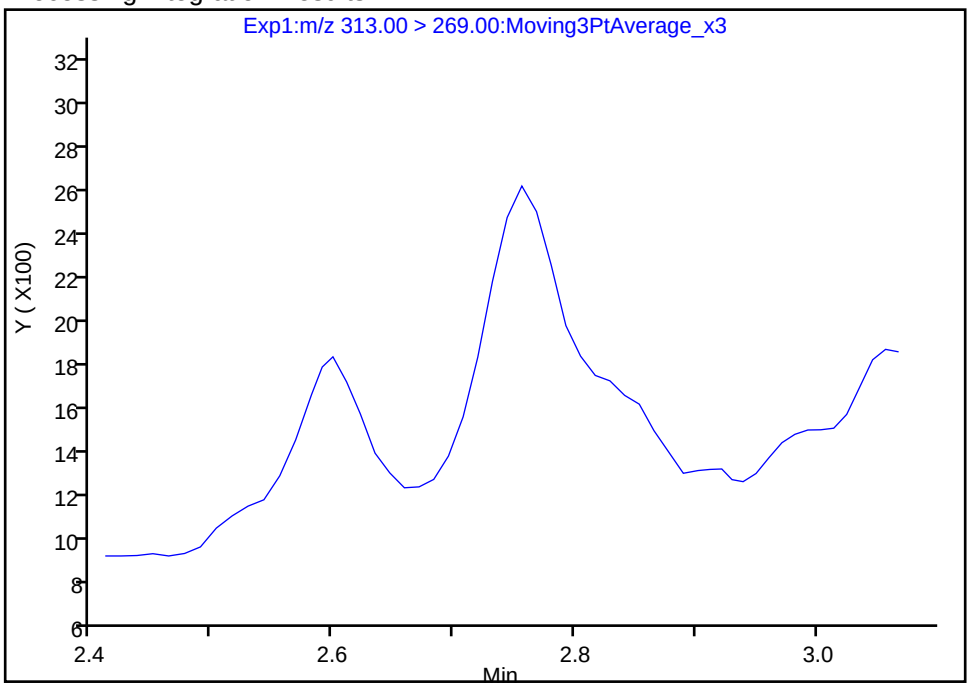
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A14.d				
Injection Date:	26-Feb-2021 14:34:08	Instrument ID:	LC812		
Lims ID:	480-181249-A-4-A	Lab Sample ID:	200-181249-4		
Client ID:	SB-12A (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

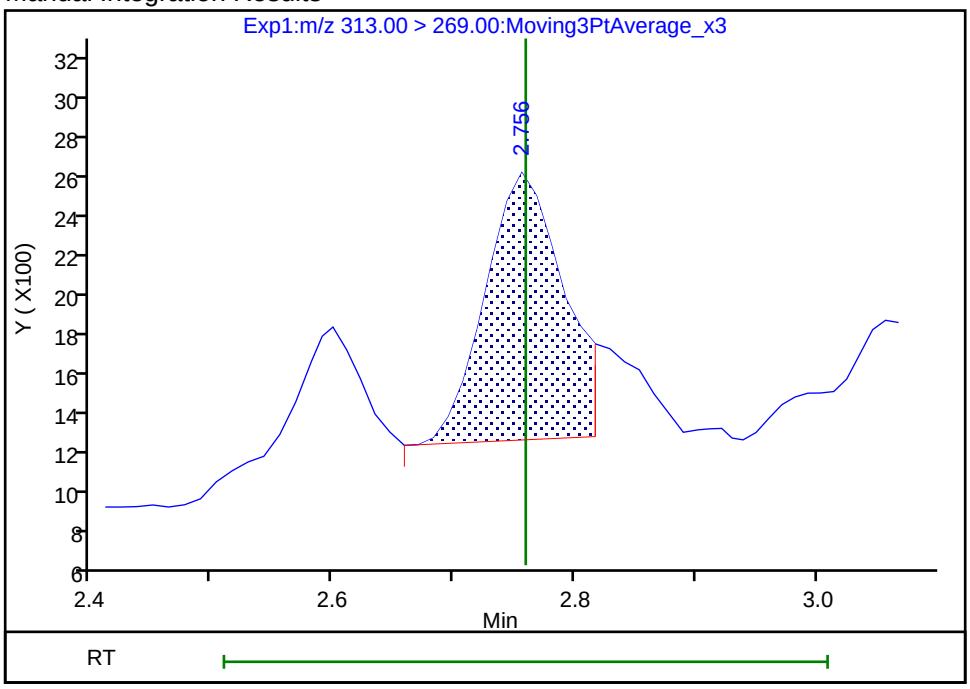
Not Detected
Expected RT: 2.76

Processing Integration Results



Manual Integration Results

RT: 2.76
Area: 5818
Amount: 0.007243
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:11:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

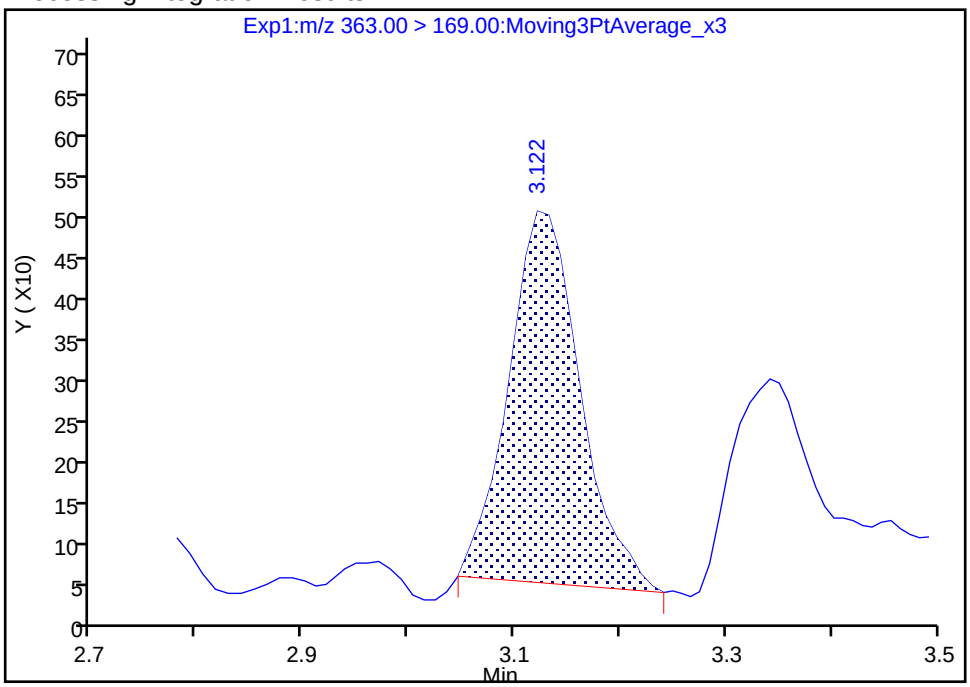
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A14.d				
Injection Date:	26-Feb-2021 14:34:08	Instrument ID:	LC812		
Lims ID:	480-181249-A-4-A	Lab Sample ID:	200-181249-4		
Client ID:	SB-12A (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

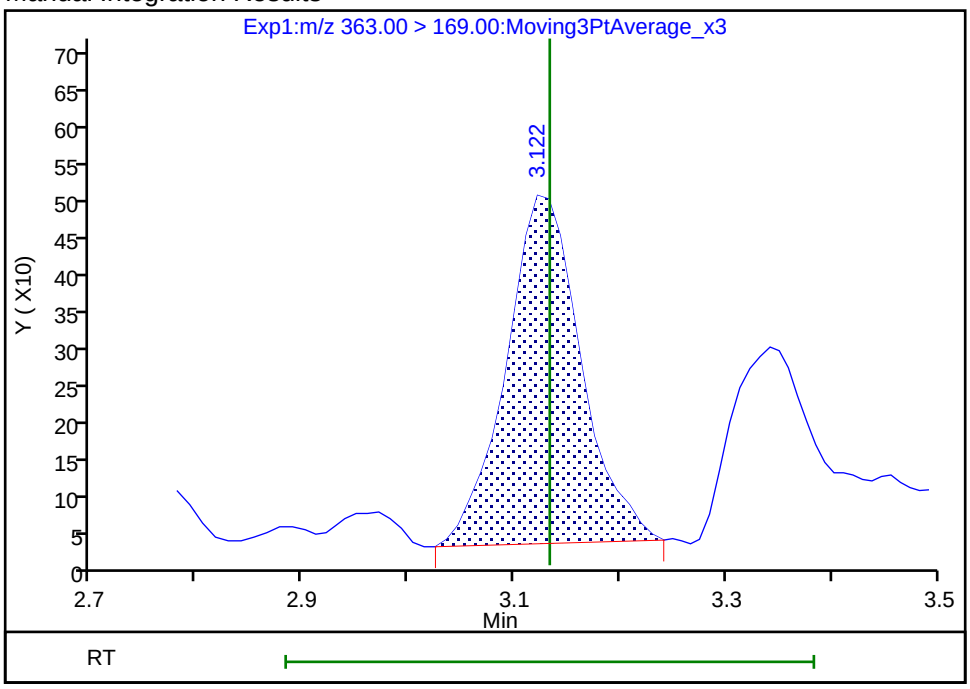
Processing Integration Results

RT: 3.12
Area: 2137
Amount: 0.007423
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 2316
Amount: 0.007423
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:11:53

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

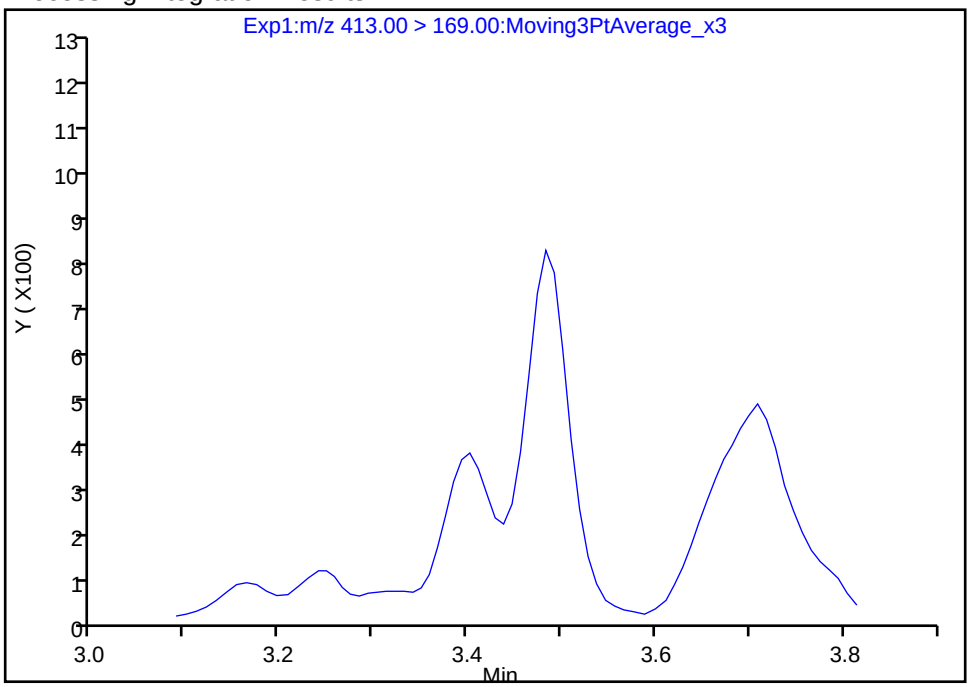
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A14.d				
Injection Date:	26-Feb-2021 14:34:08	Instrument ID:	LC812		
Lims ID:	480-181249-A-4-A	Lab Sample ID:	200-181249-4		
Client ID:	SB-12A (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

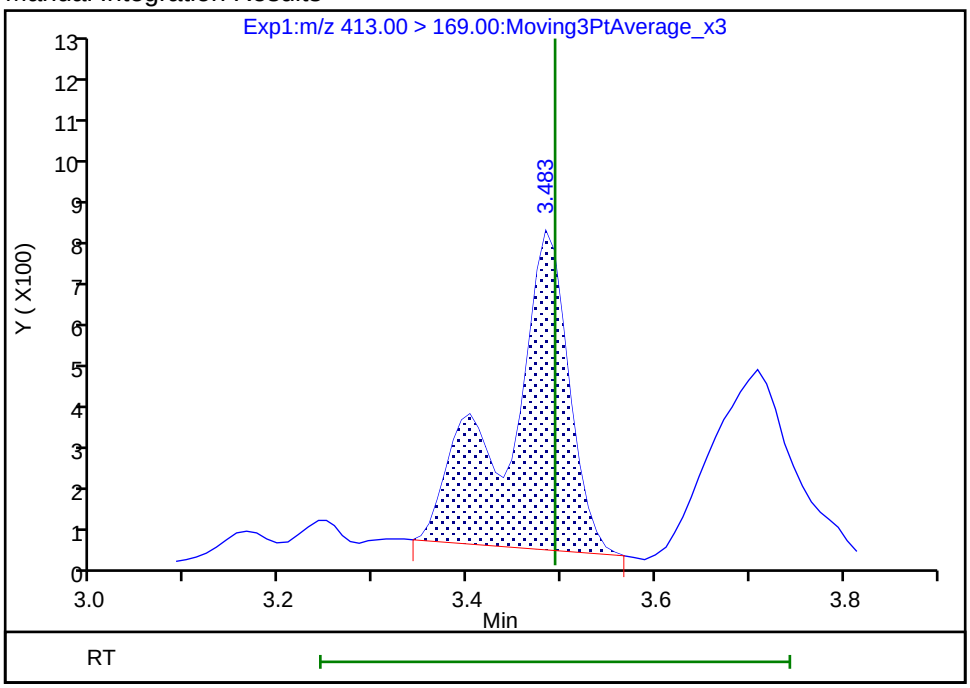
Not Detected
Expected RT: 3.49

Processing Integration Results



Manual Integration Results

RT: 3.48
Area: 3381
Amount: 0.013862
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:13:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

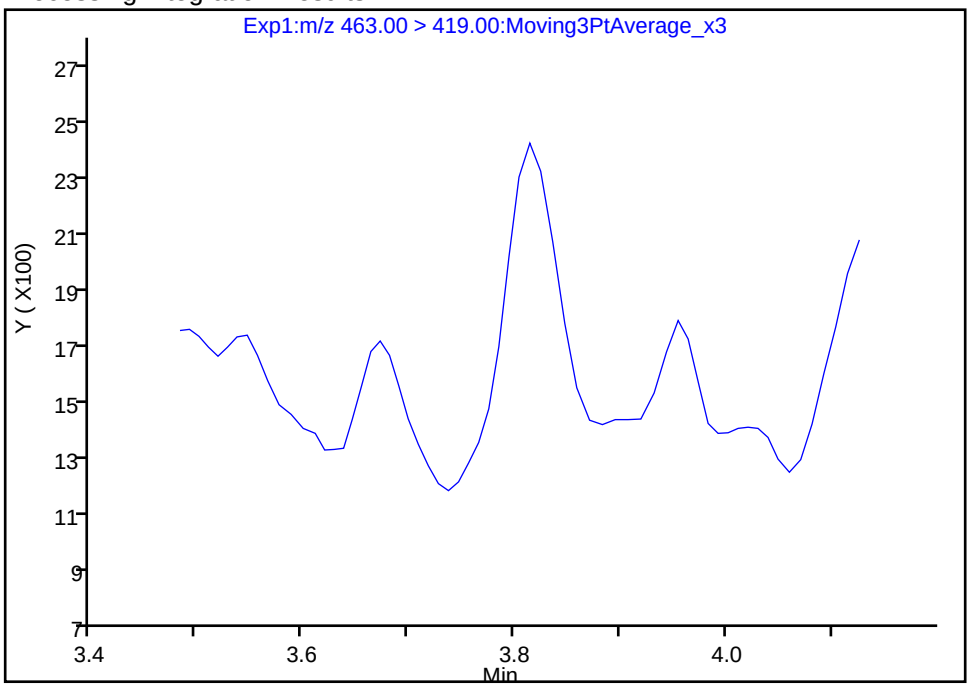
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A14.d				
Injection Date:	26-Feb-2021 14:34:08	Instrument ID:	LC812		
Lims ID:	480-181249-A-4-A	Lab Sample ID:	200-181249-4		
Client ID:	SB-12A (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

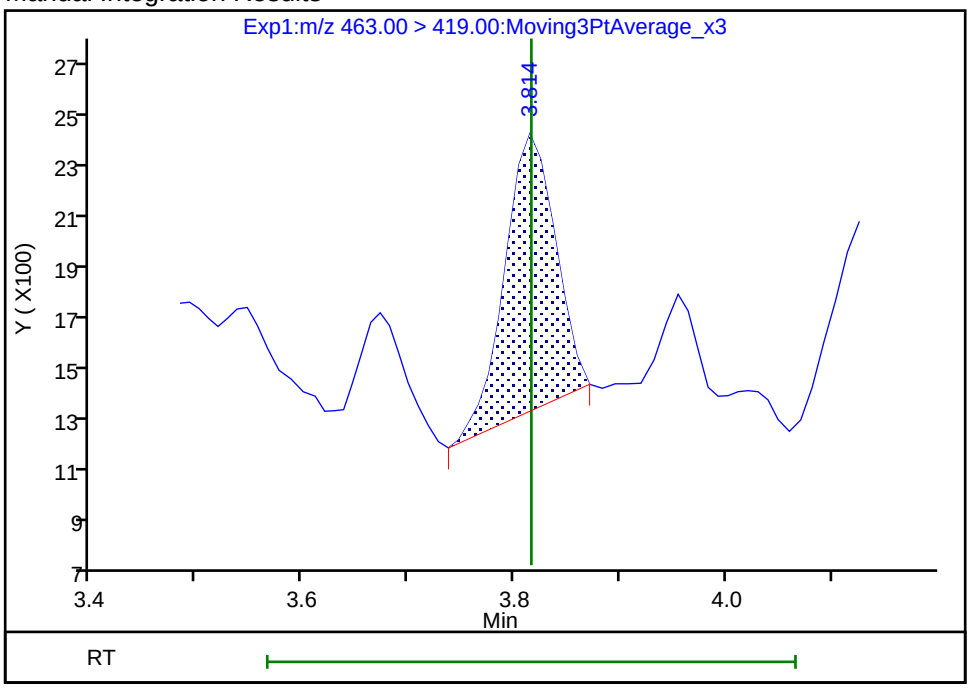
Not Detected
Expected RT: 3.82

Processing Integration Results



Manual Integration Results

RT: 3.81
Area: 3489
Amount: 0.005423
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:13:45
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

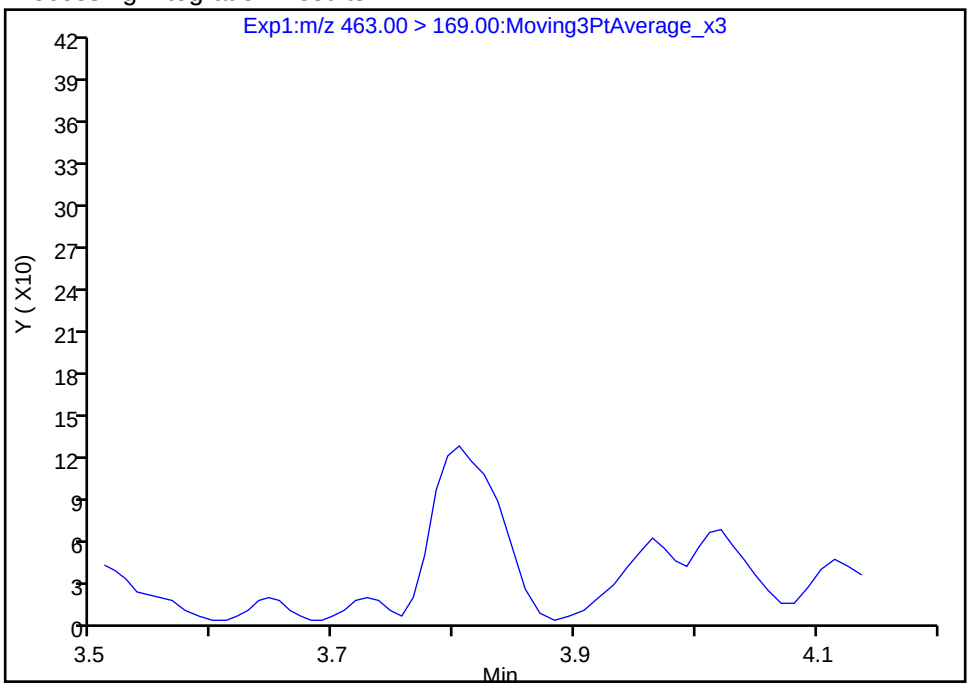
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A14.d				
Injection Date:	26-Feb-2021 14:34:08	Instrument ID:	LC812		
Lims ID:	480-181249-A-4-A	Lab Sample ID:	200-181249-4		
Client ID:	SB-12A (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

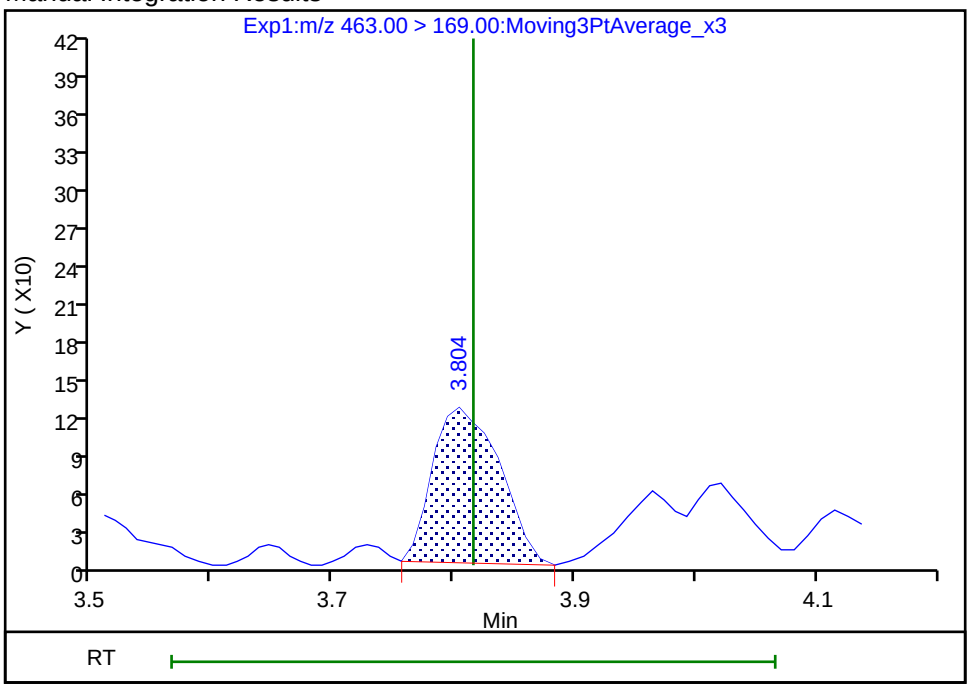
Not Detected
Expected RT: 3.82

Processing Integration Results



Manual Integration Results

RT: 3.80
Area: 465
Amount: 0.005423
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:13:48
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

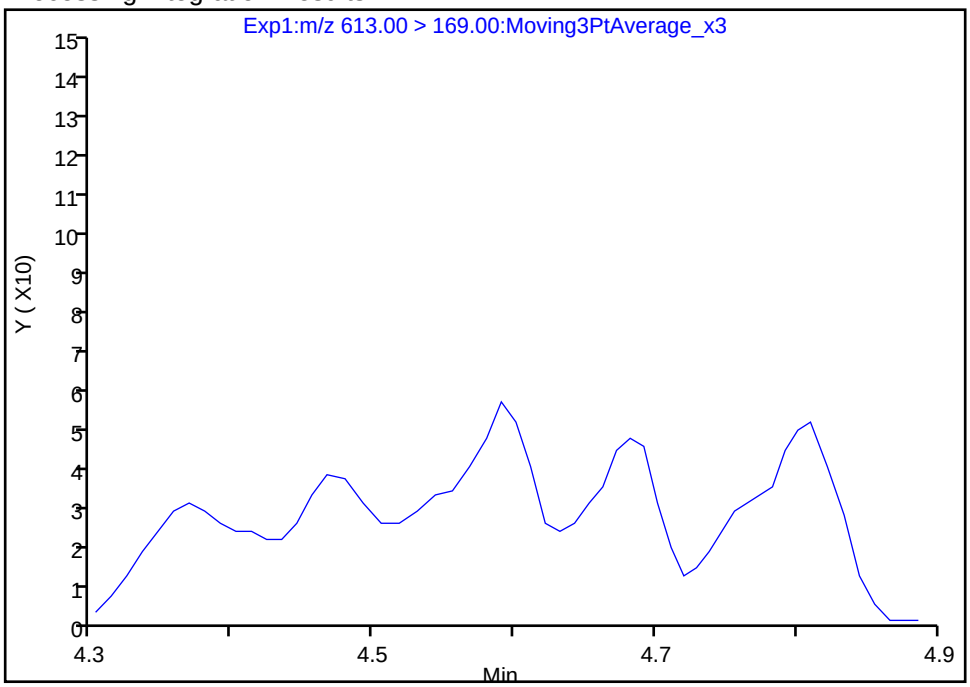
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A14.d				
Injection Date:	26-Feb-2021 14:34:08	Instrument ID:	LC812		
Lims ID:	480-181249-A-4-A	Lab Sample ID:	200-181249-4		
Client ID:	SB-12A (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

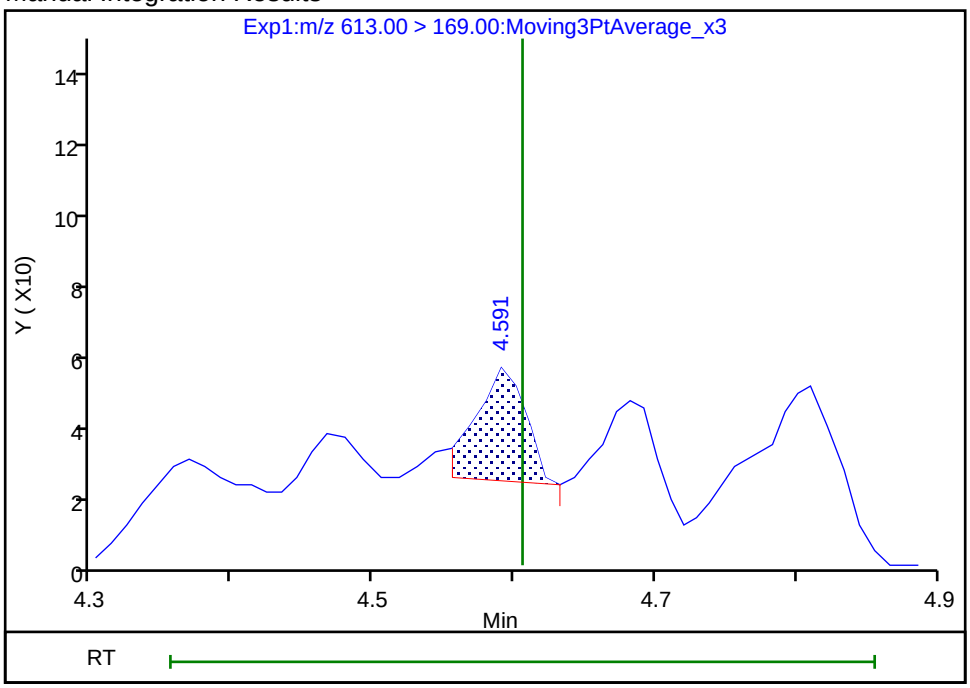
Not Detected
Expected RT: 4.61

Processing Integration Results



Manual Integration Results

RT: 4.59
Area: 74
Amount: 0.007078
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:14:46
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

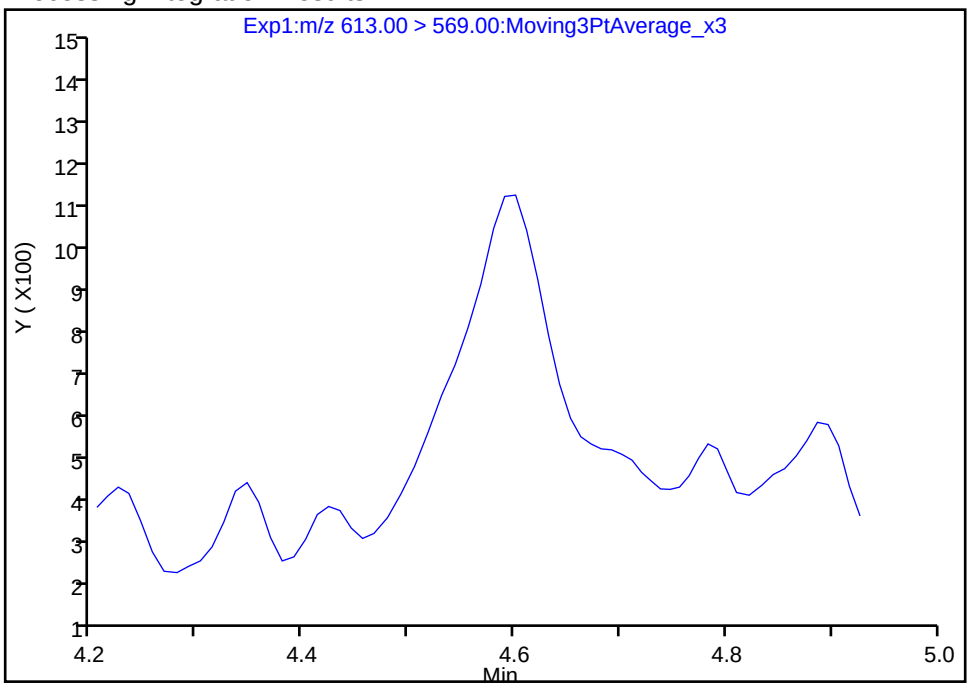
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A14.d				
Injection Date:	26-Feb-2021 14:34:08	Instrument ID:	LC812		
Lims ID:	480-181249-A-4-A	Lab Sample ID:	200-181249-4		
Client ID:	SB-12A (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

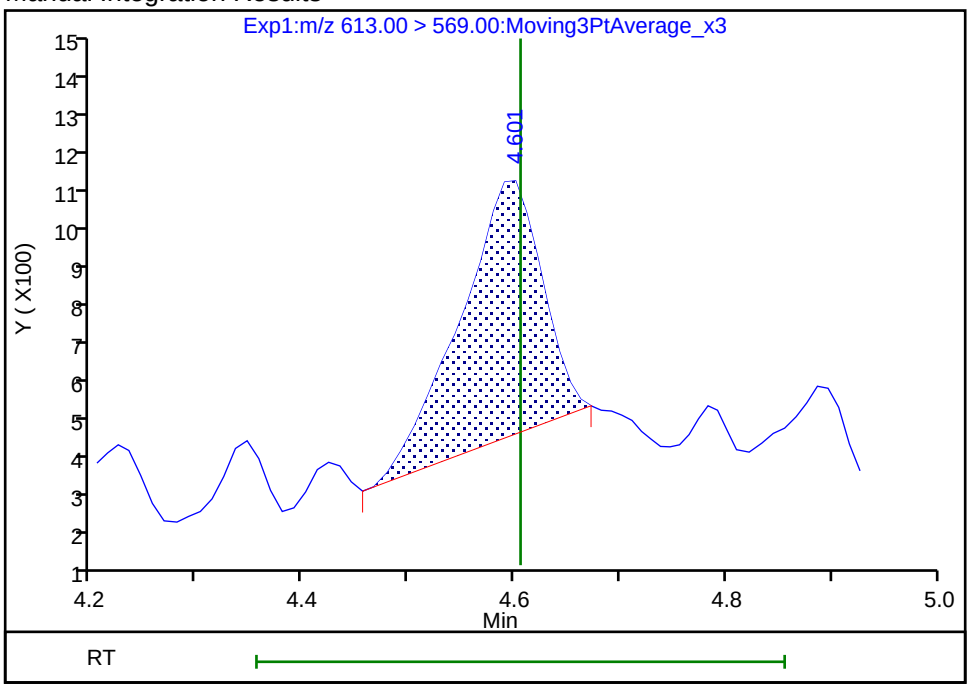
Not Detected
Expected RT: 4.61

Processing Integration Results



Manual Integration Results

RT: 4.60
Area: 3400
Amount: 0.007078
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:14:52
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

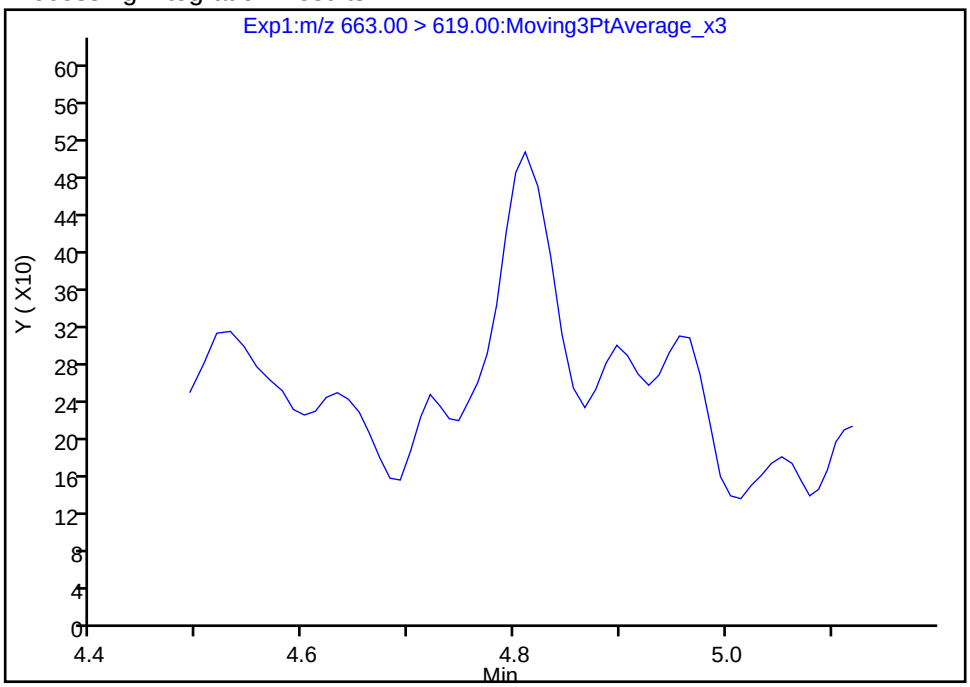
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A14.d				
Injection Date:	26-Feb-2021 14:34:08	Instrument ID:	LC812		
Lims ID:	480-181249-A-4-A	Lab Sample ID:	200-181249-4		
Client ID:	SB-12A (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

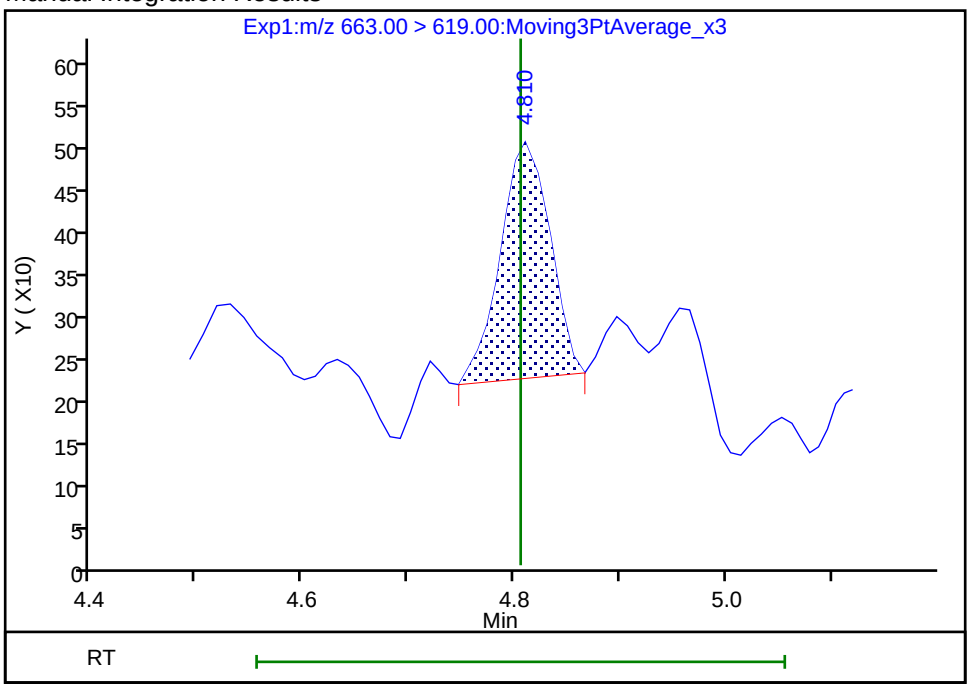
Not Detected
Expected RT: 4.81

Processing Integration Results



Manual Integration Results

RT: 4.81
Area: 914
Amount: 0.002345
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:15:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

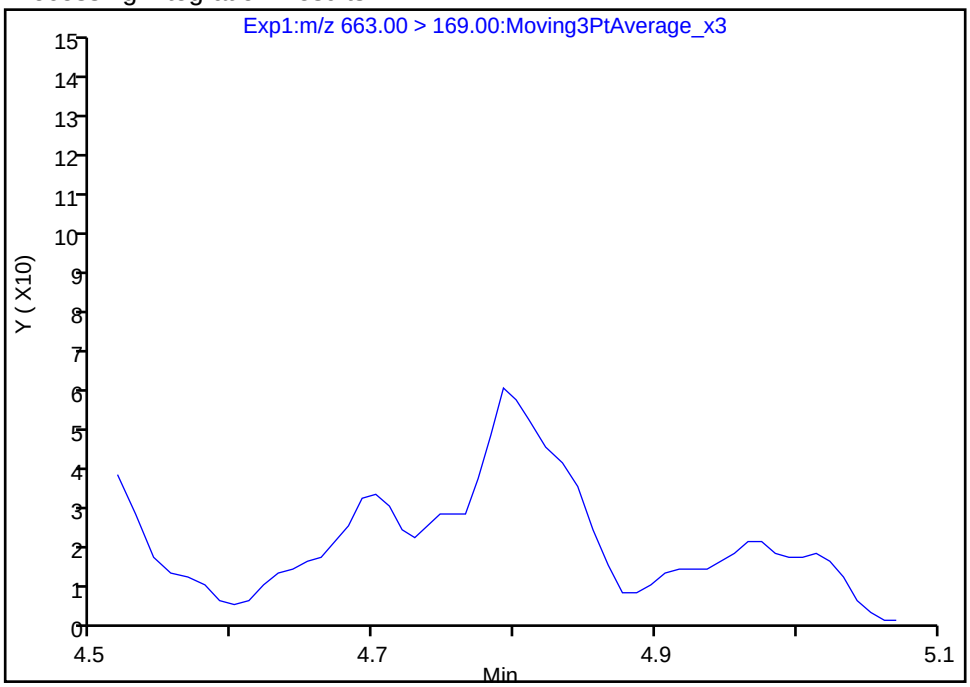
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A14.d				
Injection Date:	26-Feb-2021 14:34:08	Instrument ID:	LC812		
Lims ID:	480-181249-A-4-A	Lab Sample ID:	200-181249-4		
Client ID:	SB-12A (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

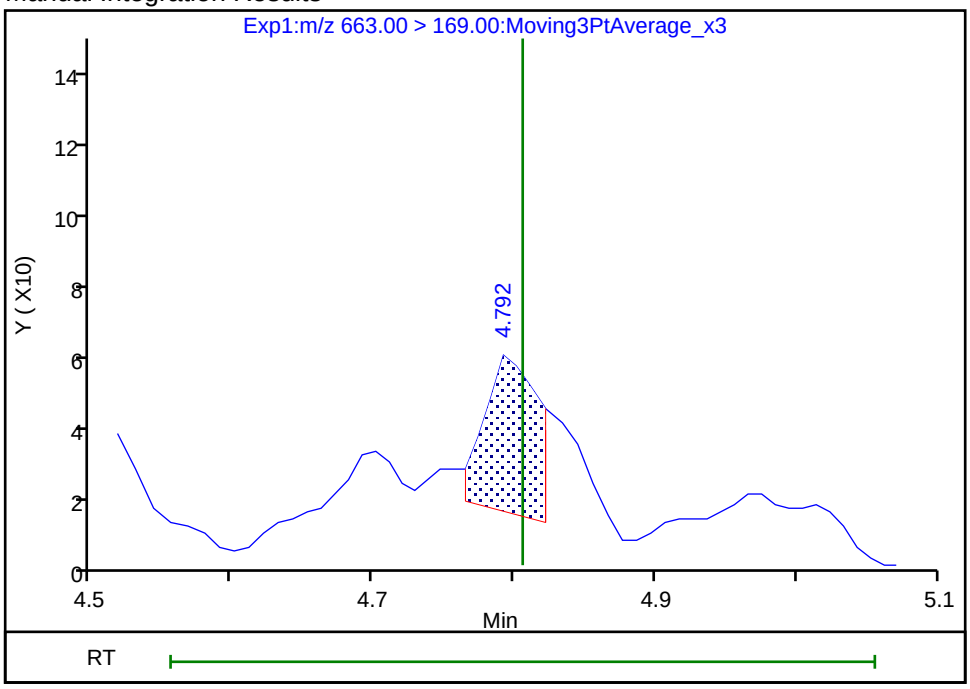
Not Detected
Expected RT: 4.81

Processing Integration Results



Manual Integration Results

RT: 4.79
Area: 110
Amount: 0.002345
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:15:07
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

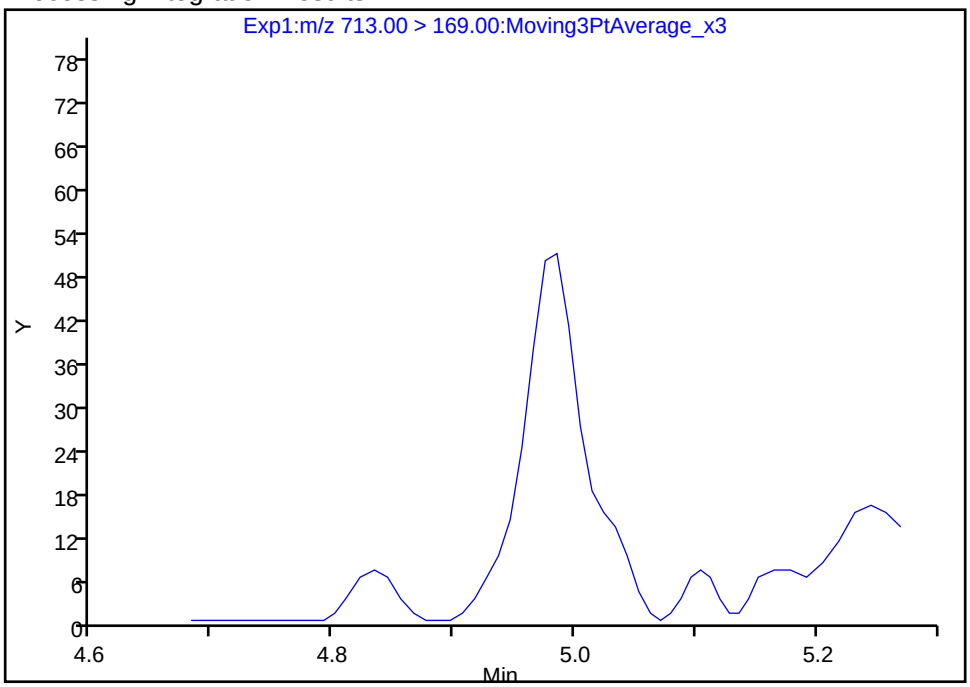
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A14.d				
Injection Date:	26-Feb-2021 14:34:08	Instrument ID:	LC812		
Lims ID:	480-181249-A-4-A	Lab Sample ID:	200-181249-4		
Client ID:	SB-12A (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

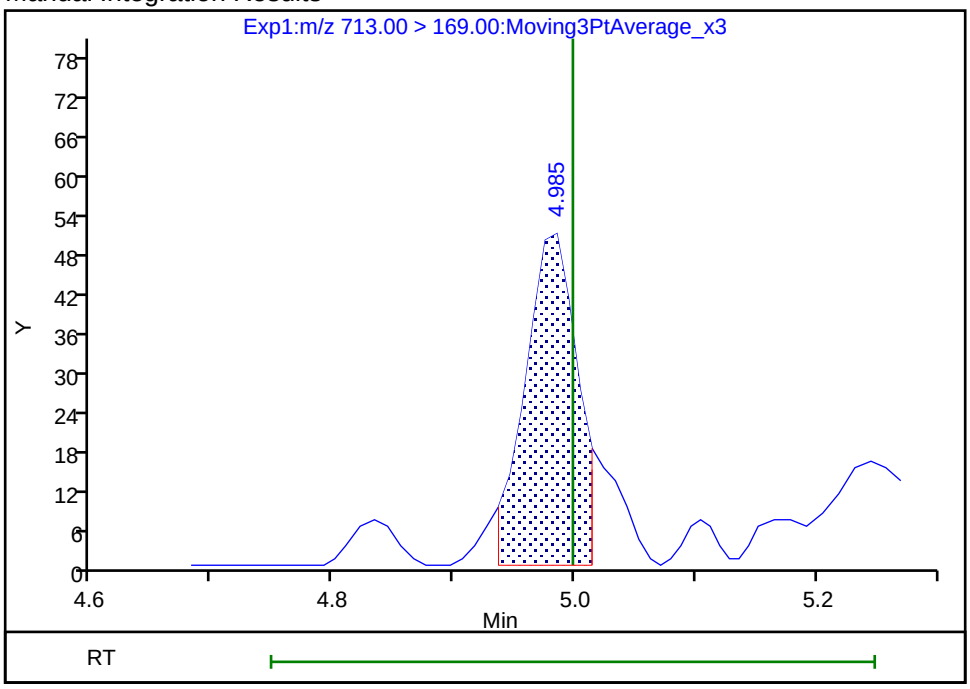
Not Detected
Expected RT: 5.00

Processing Integration Results



Manual Integration Results

RT: 4.99
Area: 150
Amount: 0.002828
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:15:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

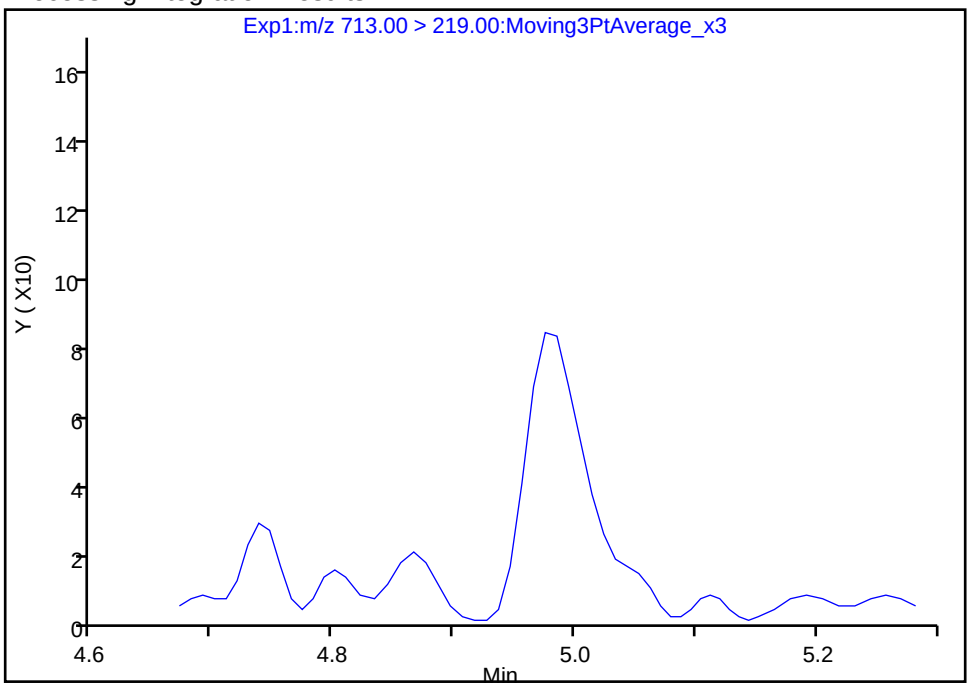
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A14.d				
Injection Date:	26-Feb-2021 14:34:08	Instrument ID:	LC812		
Lims ID:	480-181249-A-4-A	Lab Sample ID:	200-181249-4		
Client ID:	SB-12A (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

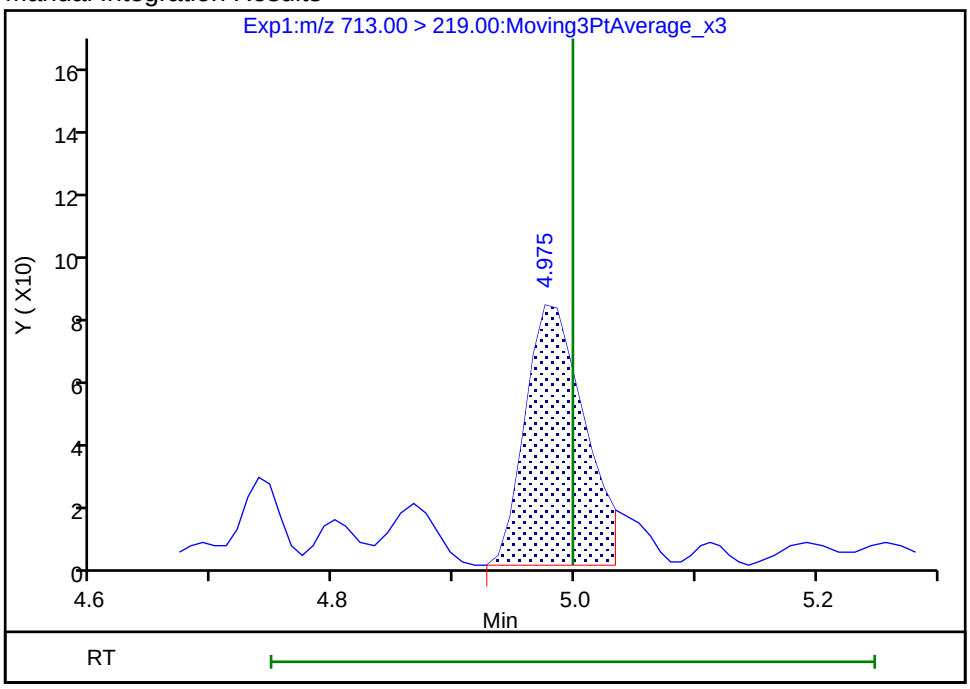
Not Detected
Expected RT: 5.00

Processing Integration Results



Manual Integration Results

RT: 4.98
Area: 268
Amount: 0.002828
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:15:32
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

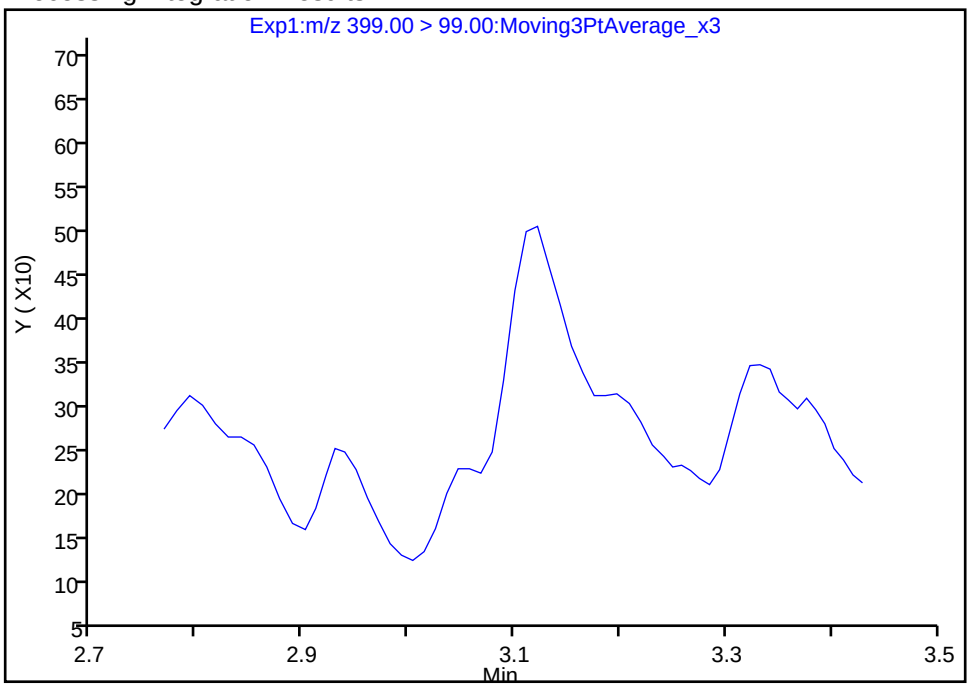
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A14.d				
Injection Date:	26-Feb-2021 14:34:08	Instrument ID:	LC812		
Lims ID:	480-181249-A-4-A	Lab Sample ID:	200-181249-4		
Client ID:	SB-12A (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

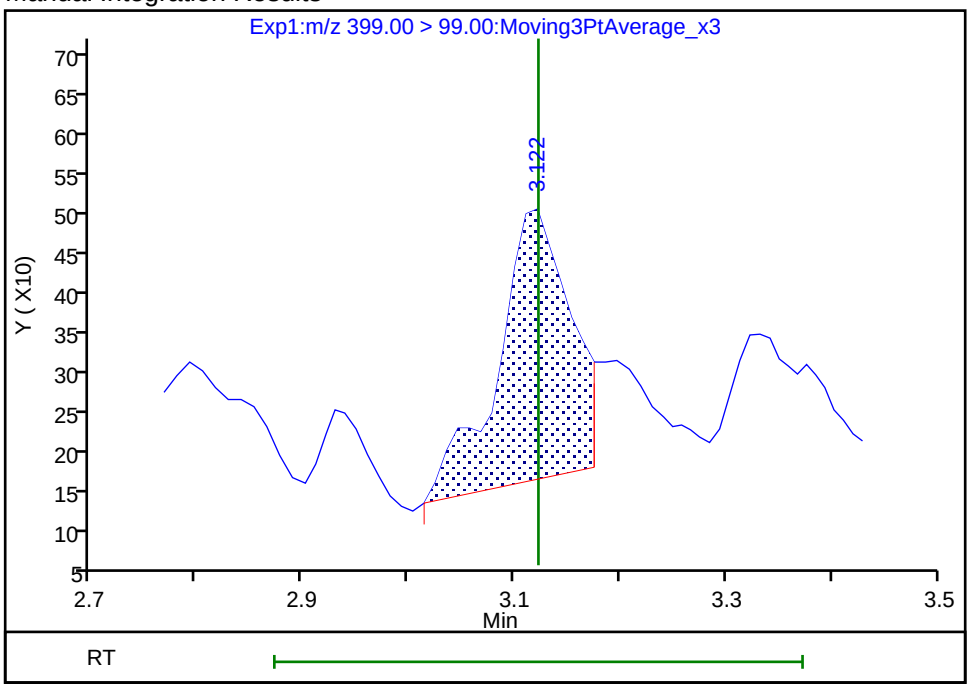
Not Detected
Expected RT: 3.12

Processing Integration Results



Manual Integration Results

RT: 3.12
Area: 1606
Amount: 0.005778
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:11:40
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

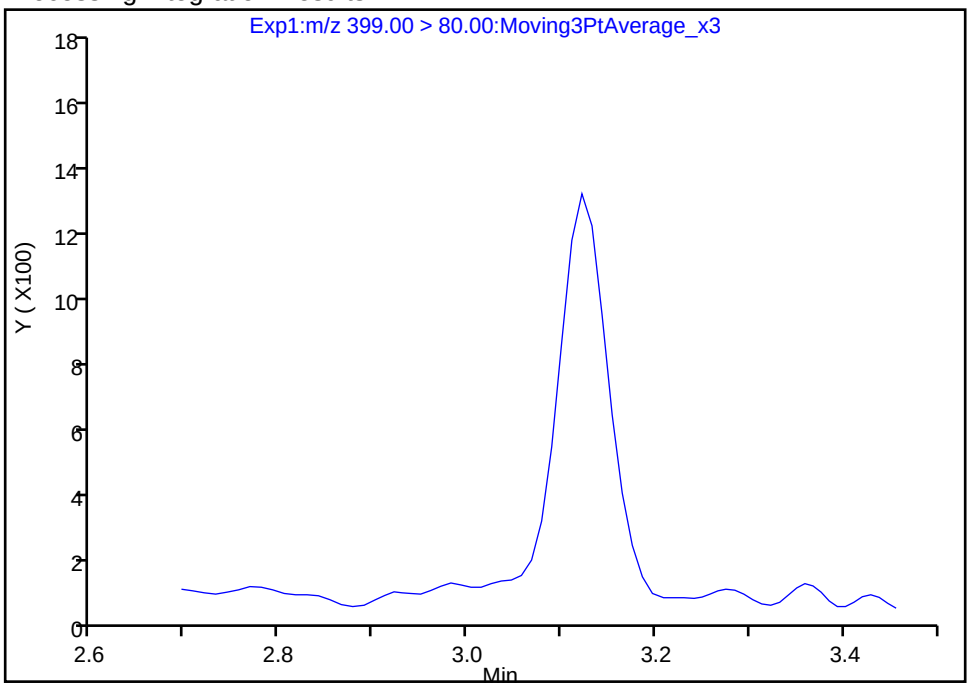
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A14.d				
Injection Date:	26-Feb-2021 14:34:08	Instrument ID:	LC812		
Lims ID:	480-181249-A-4-A	Lab Sample ID:	200-181249-4		
Client ID:	SB-12A (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

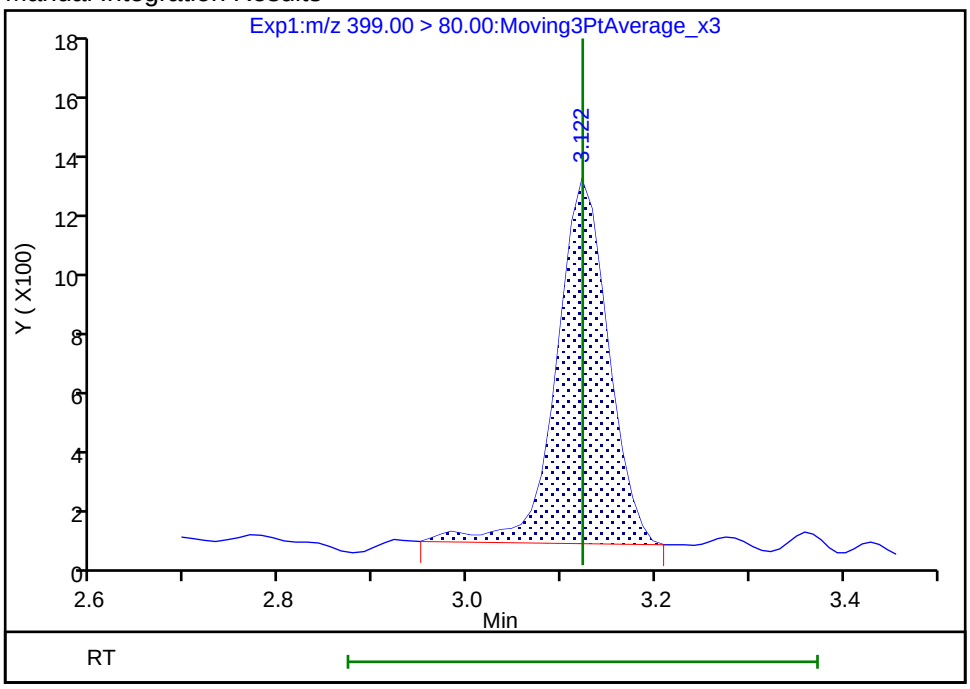
Not Detected
Expected RT: 3.12

Processing Integration Results



Manual Integration Results

RT: 3.12
Area: 4717
Amount: 0.005778
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:11:47
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

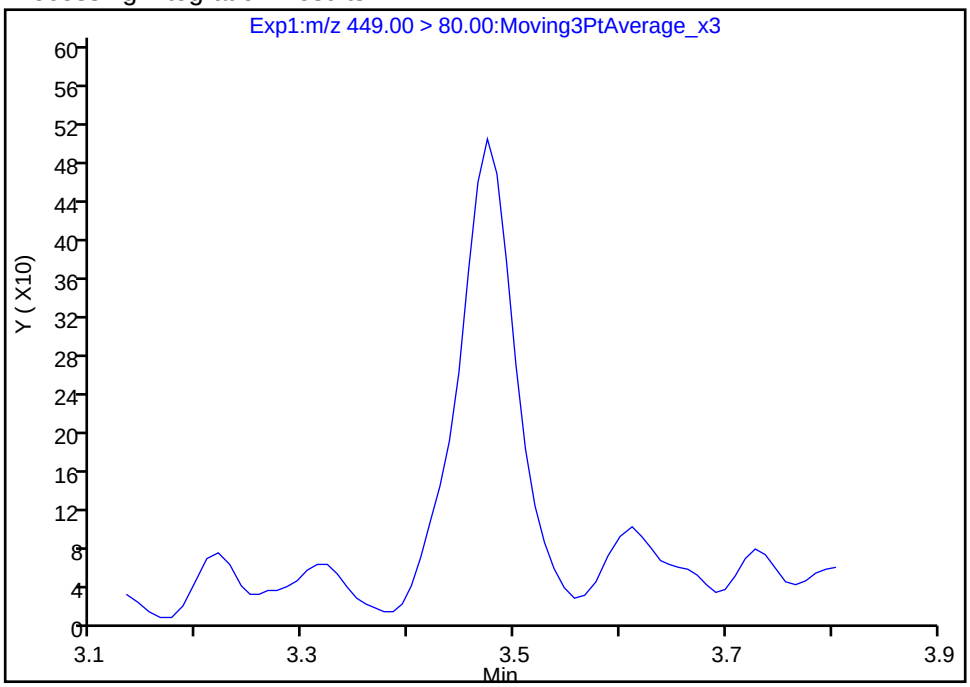
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A14.d				
Injection Date:	26-Feb-2021 14:34:08	Instrument ID:	LC812		
Lims ID:	480-181249-A-4-A	Lab Sample ID:	200-181249-4		
Client ID:	SB-12A (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

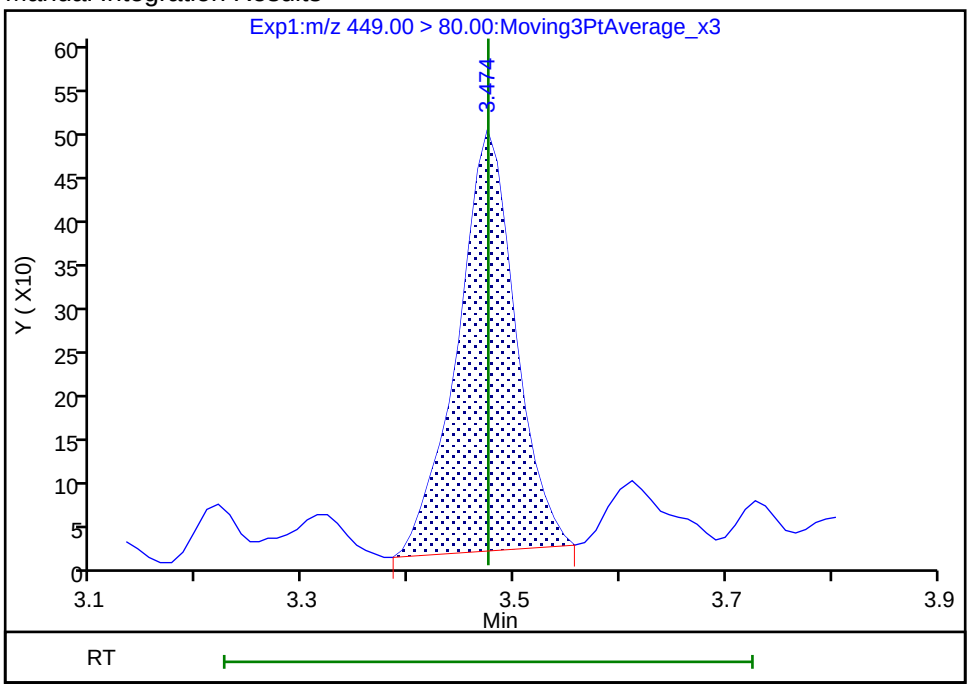
Not Detected
Expected RT: 3.48

Processing Integration Results



Manual Integration Results

RT: 3.47
Area: 1834
Amount: 0.002824
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:12:48
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

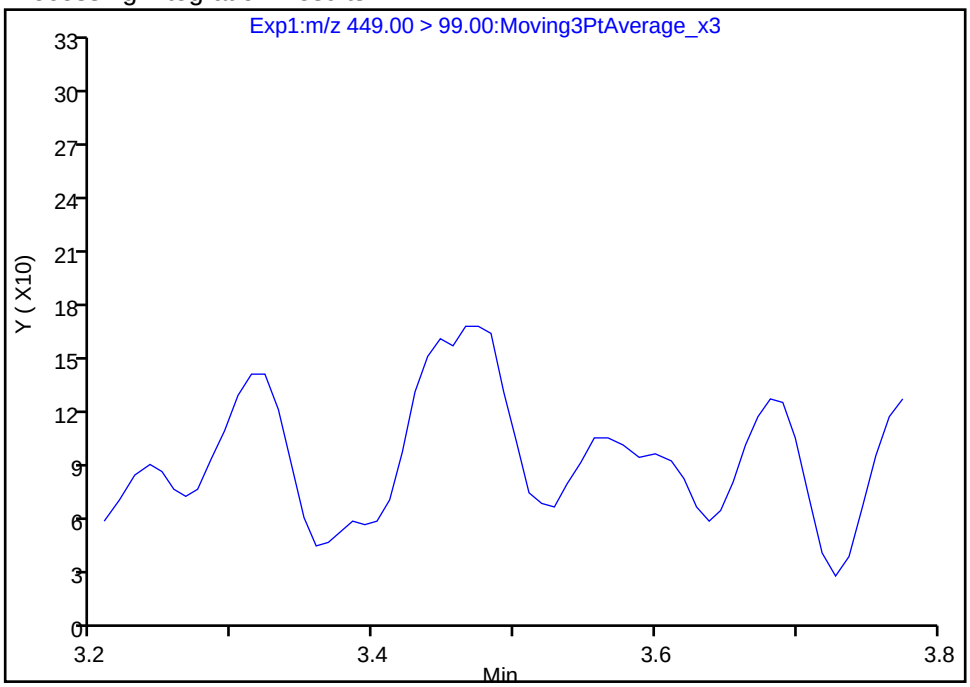
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A14.d				
Injection Date:	26-Feb-2021 14:34:08	Instrument ID:	LC812		
Lims ID:	480-181249-A-4-A	Lab Sample ID:	200-181249-4		
Client ID:	SB-12A (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

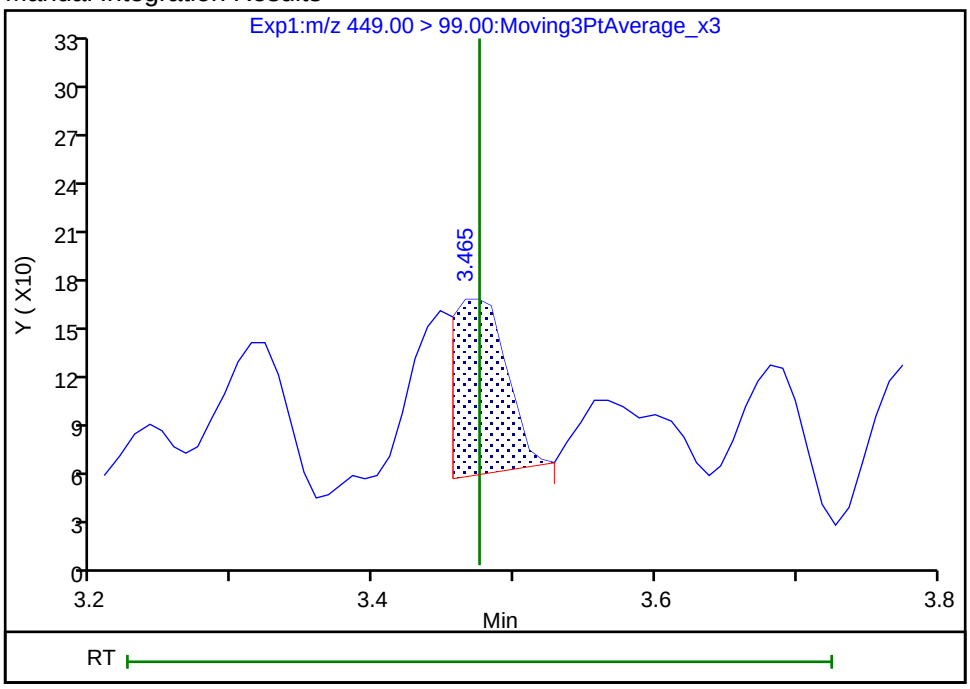
Not Detected
Expected RT: 3.48

Processing Integration Results



Manual Integration Results

RT: 3.47
Area: 269
Amount: 0.002824
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:12:50
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

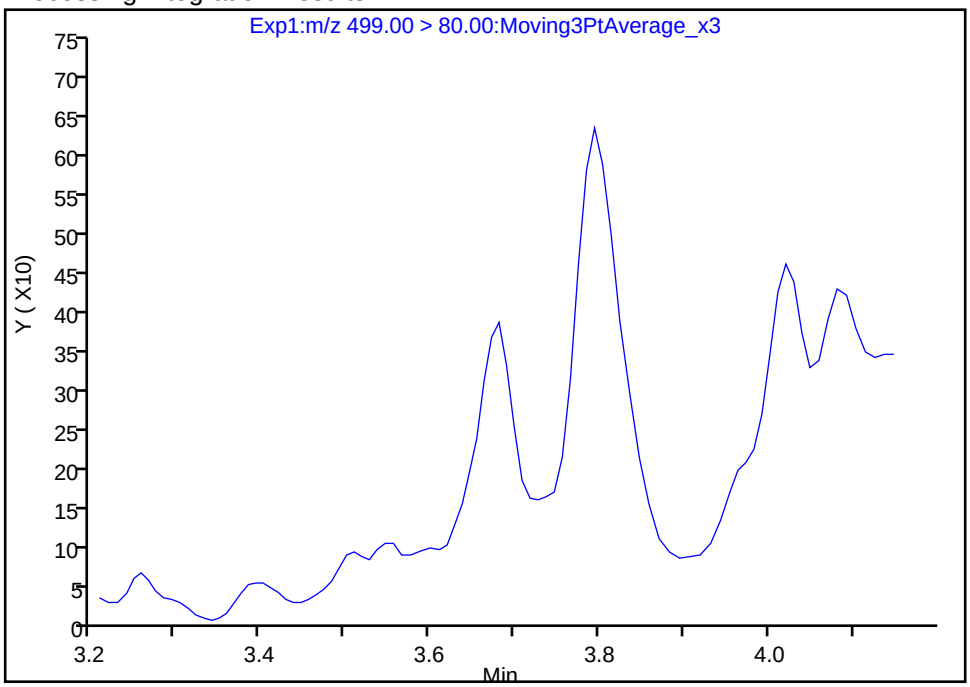
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A14.d				
Injection Date:	26-Feb-2021 14:34:08	Instrument ID:	LC812		
Lims ID:	480-181249-A-4-A	Lab Sample ID:	200-181249-4		
Client ID:	SB-12A (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

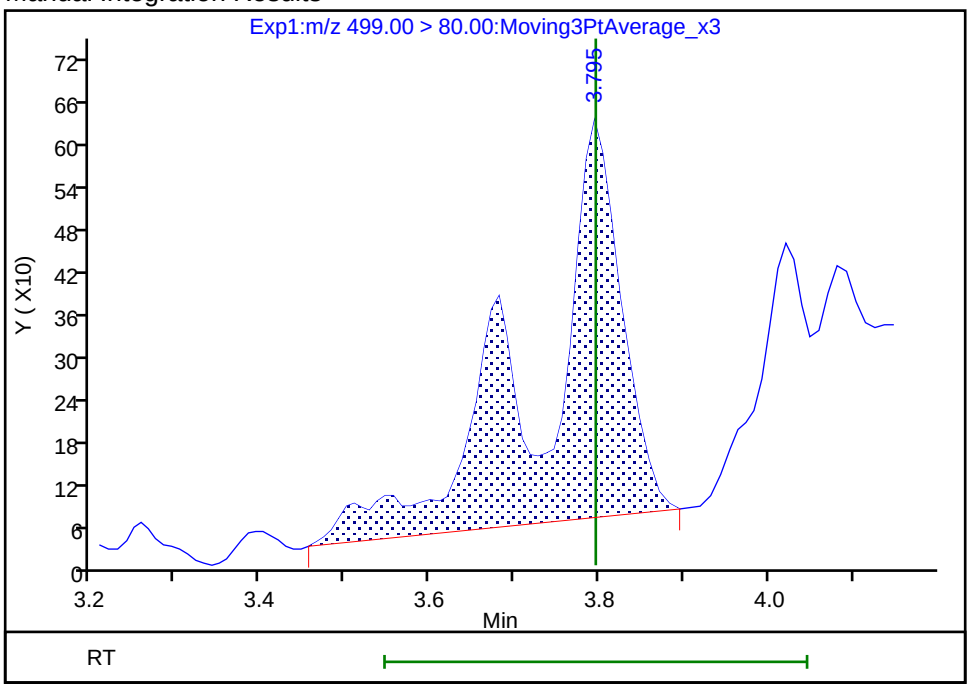
Not Detected
Expected RT: 3.80

Processing Integration Results



Manual Integration Results

RT: 3.79
Area: 3859
Amount: 0.006975
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:13:20
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

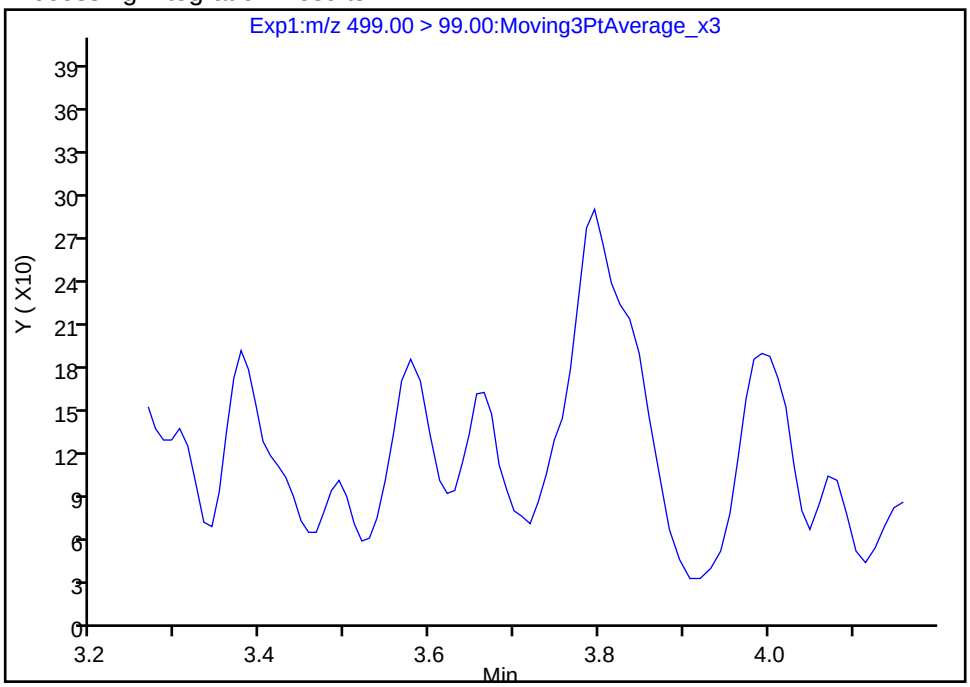
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A14.d				
Injection Date:	26-Feb-2021 14:34:08	Instrument ID:	LC812		
Lims ID:	480-181249-A-4-A	Lab Sample ID:	200-181249-4		
Client ID:	SB-12A (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

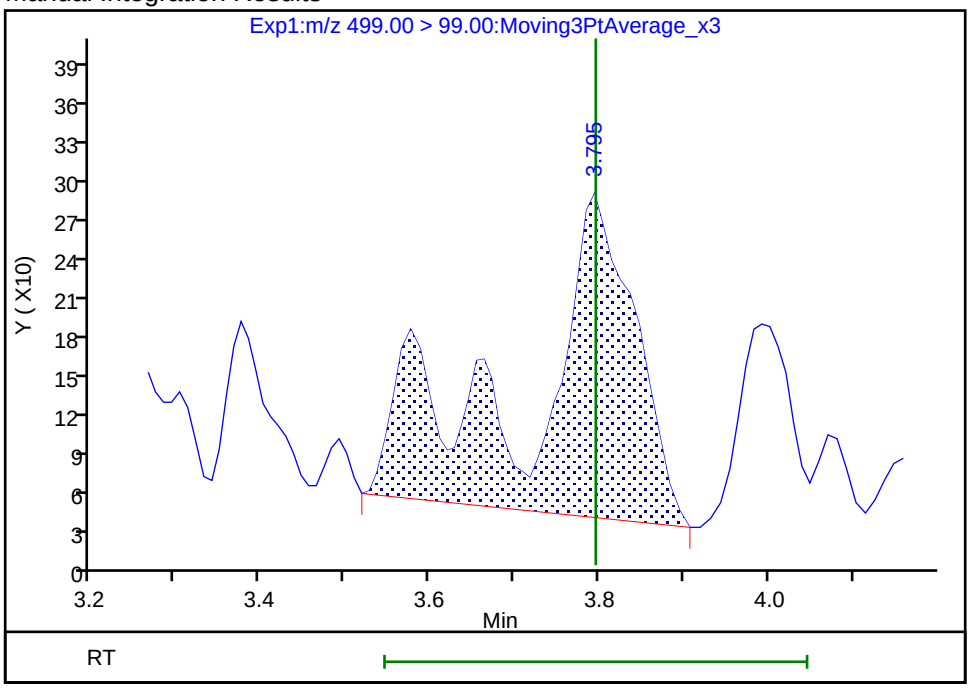
Processing Integration Results

Not Detected
Expected RT: 3.80



Manual Integration Results

RT: 3.79
Area: 2183
Amount: 0.006975
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:13:29
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

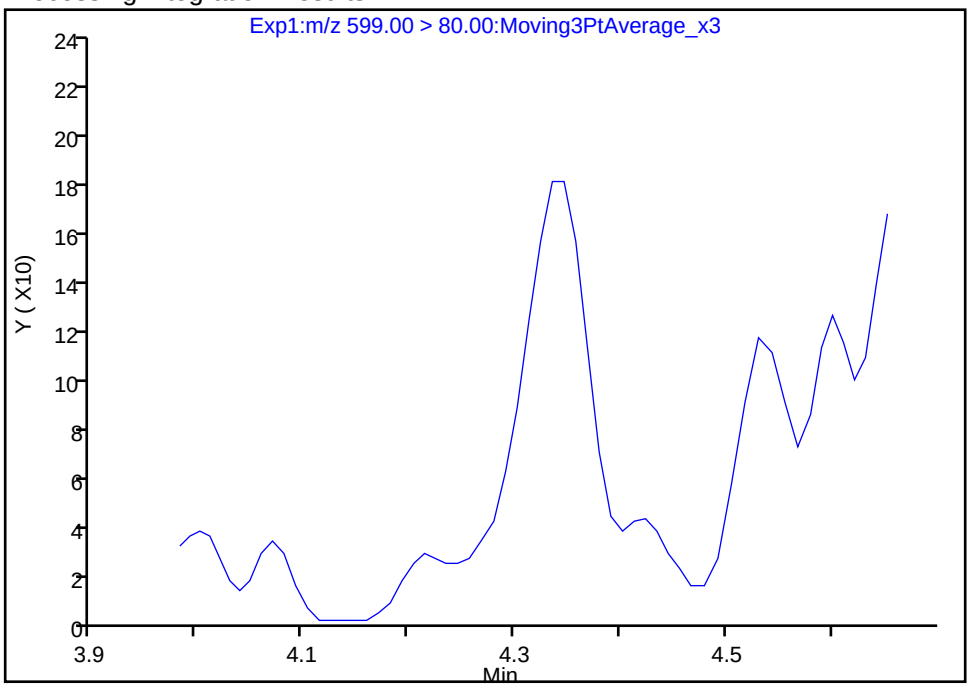
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A14.d				
Injection Date:	26-Feb-2021 14:34:08	Instrument ID:	LC812		
Lims ID:	480-181249-A-4-A	Lab Sample ID:	200-181249-4		
Client ID:	SB-12A (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

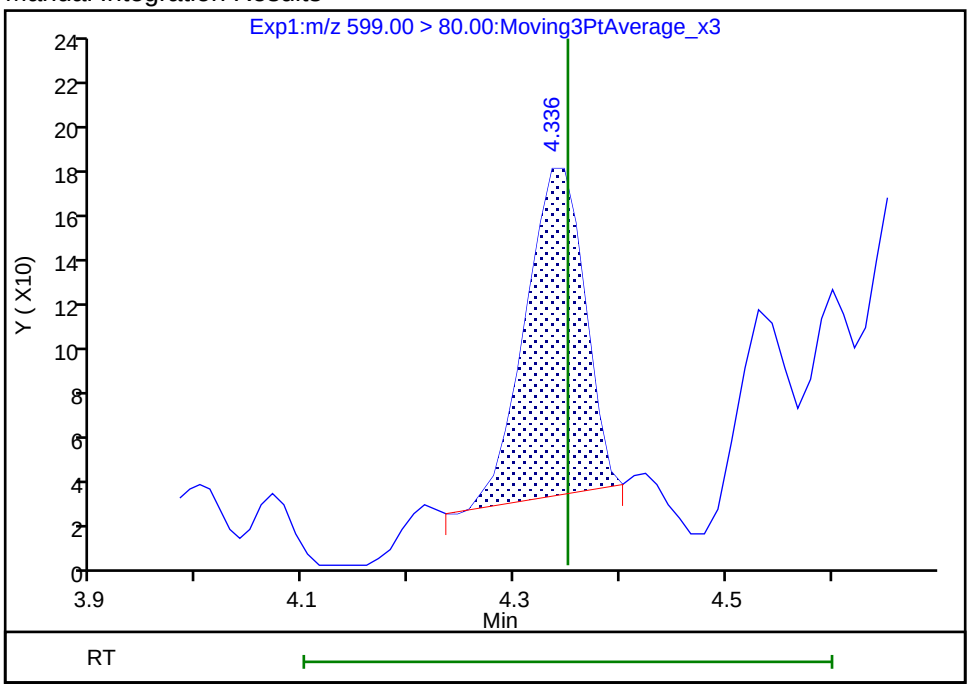
Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.34
Area: 567
Amount: 0.001723
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:14:25
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

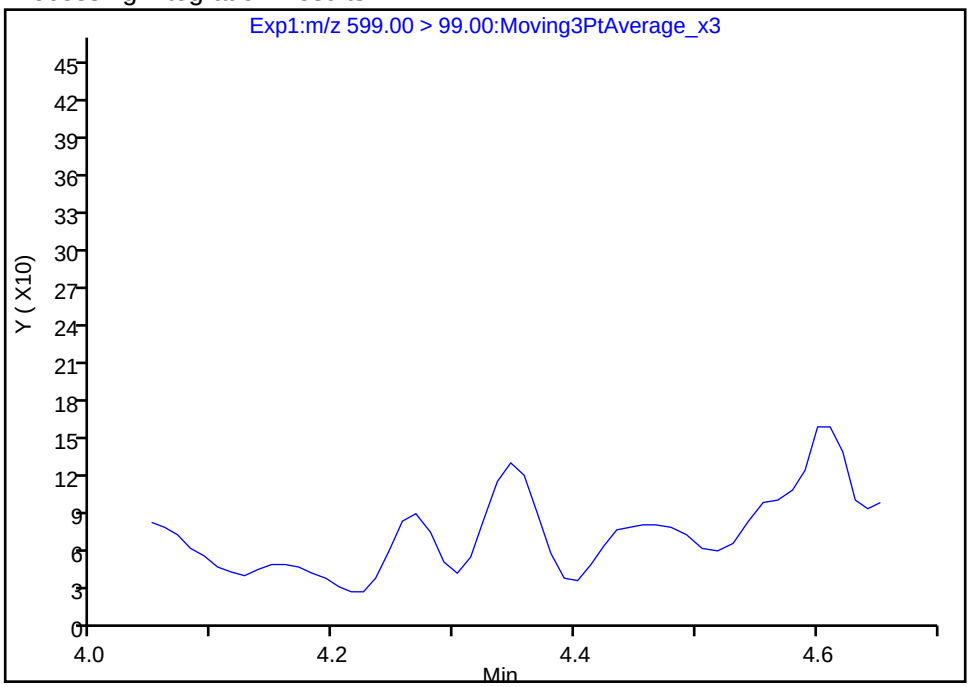
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A14.d				
Injection Date:	26-Feb-2021 14:34:08	Instrument ID:	LC812		
Lims ID:	480-181249-A-4-A	Lab Sample ID:	200-181249-4		
Client ID:	SB-12A (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

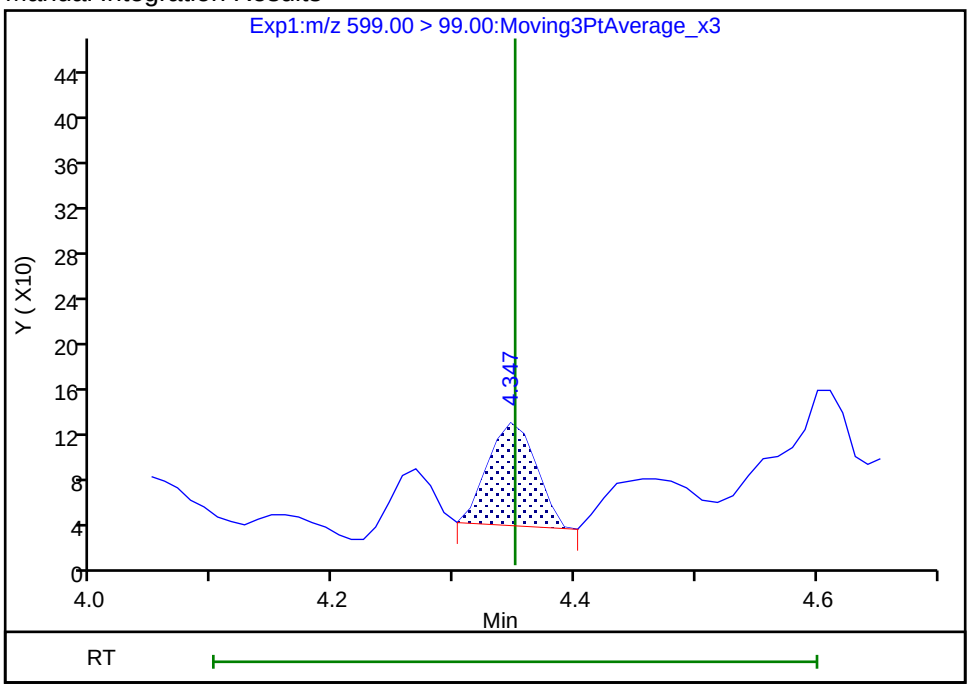
Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.35
Area: 254
Amount: 0.001723
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:14:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

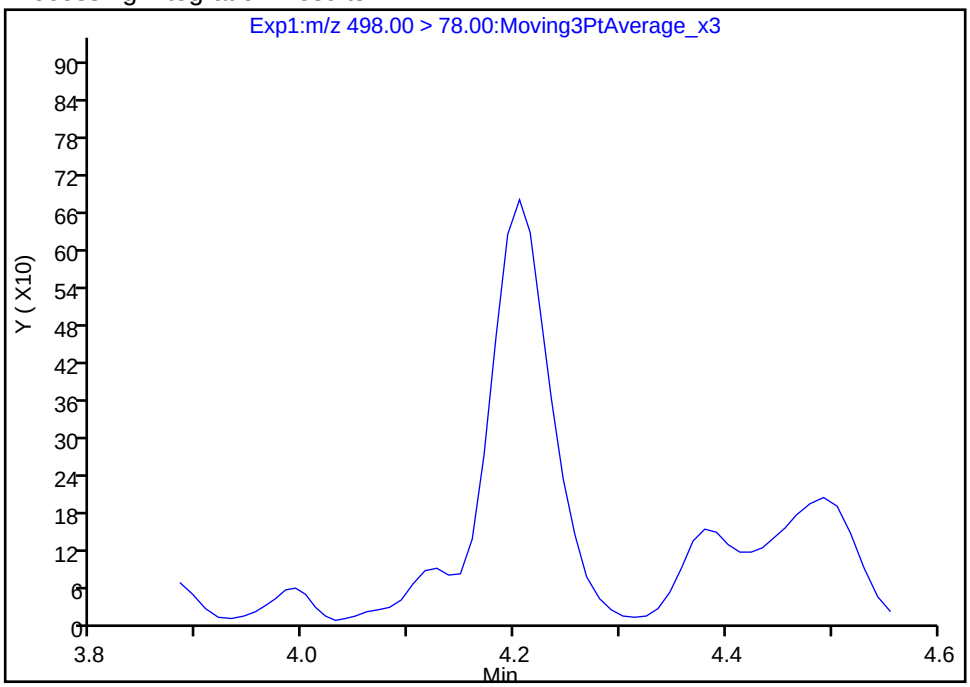
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A14.d				
Injection Date:	26-Feb-2021 14:34:08	Instrument ID:	LC812		
Lims ID:	480-181249-A-4-A	Lab Sample ID:	200-181249-4		
Client ID:	SB-12A (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

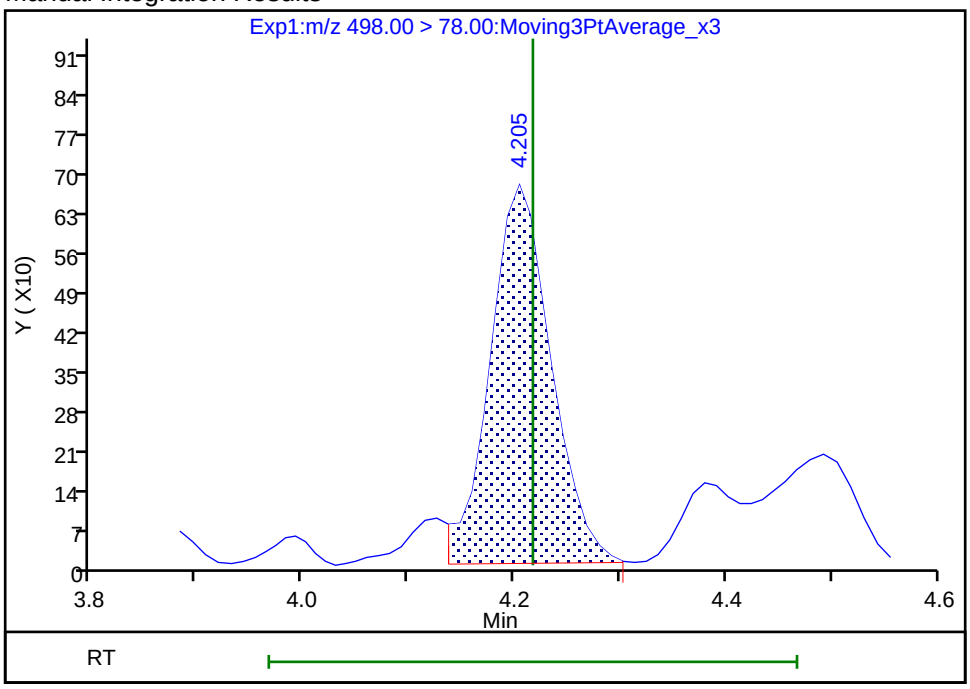
Not Detected
Expected RT: 4.22

Processing Integration Results



Manual Integration Results

RT: 4.20
Area: 2694
Amount: 0.003344
Amount Units: ng/ml



Reviewer: deannd, 01-Mar-2021 10:49:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

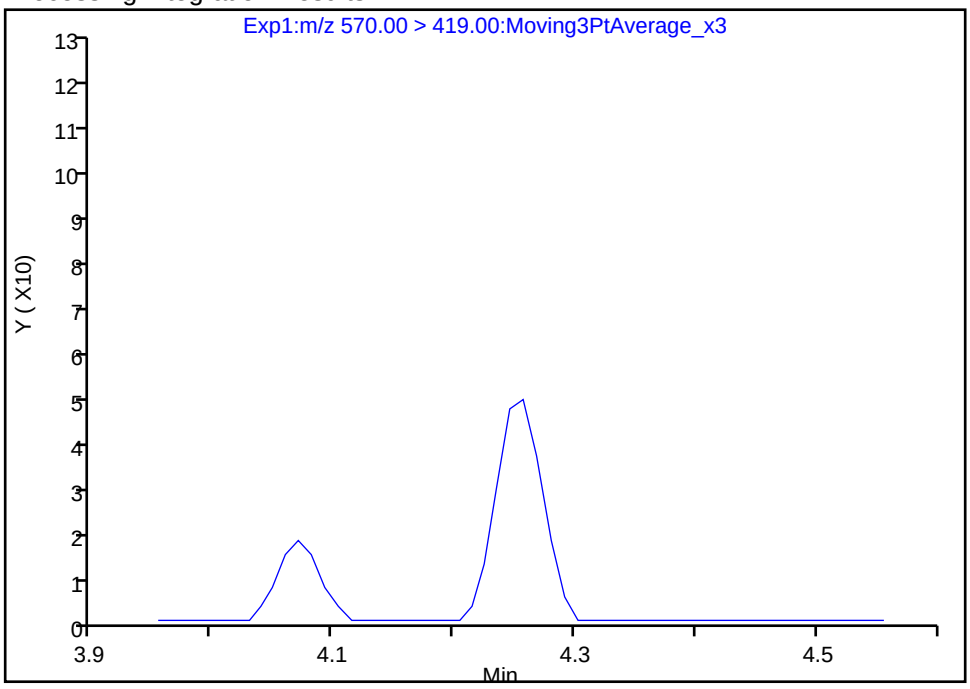
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A14.d				
Injection Date:	26-Feb-2021 14:34:08	Instrument ID:	LC812		
Lims ID:	480-181249-A-4-A	Lab Sample ID:	200-181249-4		
Client ID:	SB-12A (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

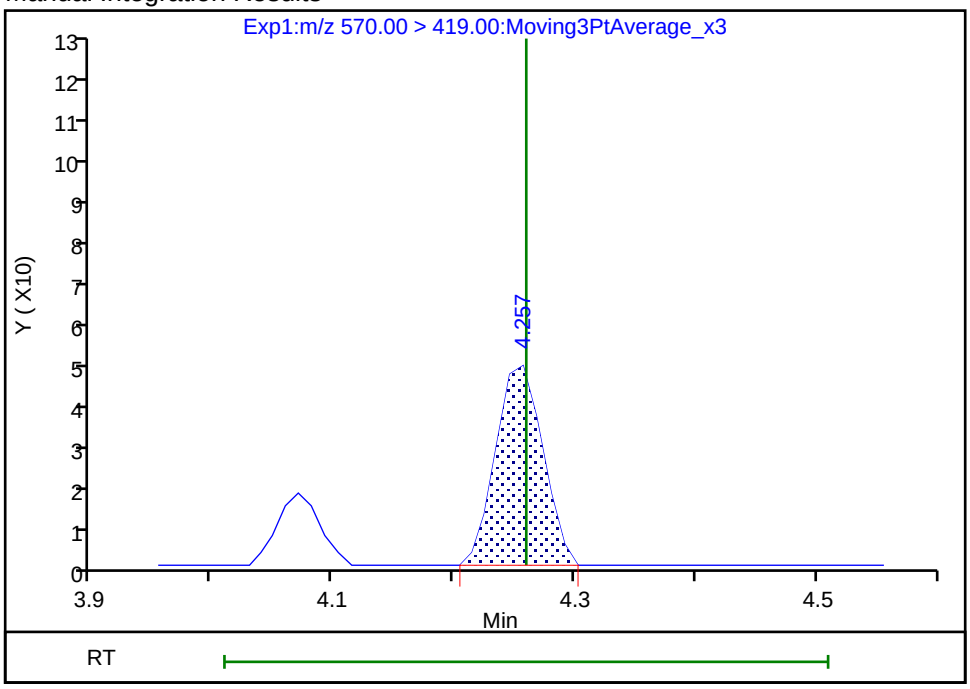
Not Detected
Expected RT: 4.26

Processing Integration Results



Manual Integration Results

RT: 4.26
Area: 127
Amount: 0.003673
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:14:17
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

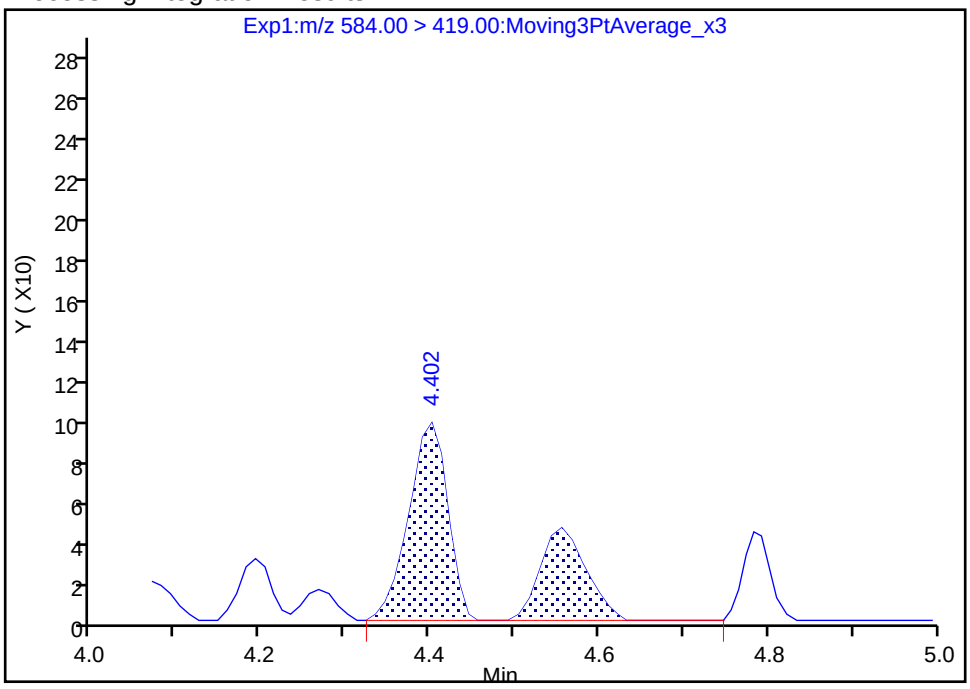
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A14.d				
Injection Date:	26-Feb-2021 14:34:08	Instrument ID:	LC812		
Lims ID:	480-181249-A-4-A	Lab Sample ID:	200-181249-4		
Client ID:	SB-12A (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

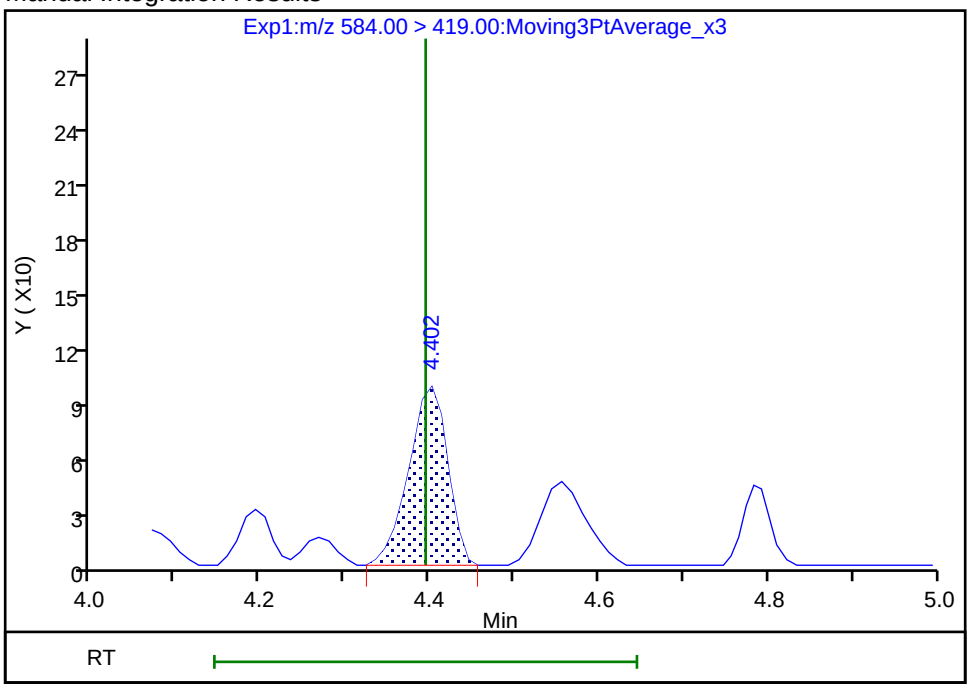
Processing Integration Results

RT: 4.40
Area: 475
Amount: 0.013463
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 306
Amount: 0.008673
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:14:38

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

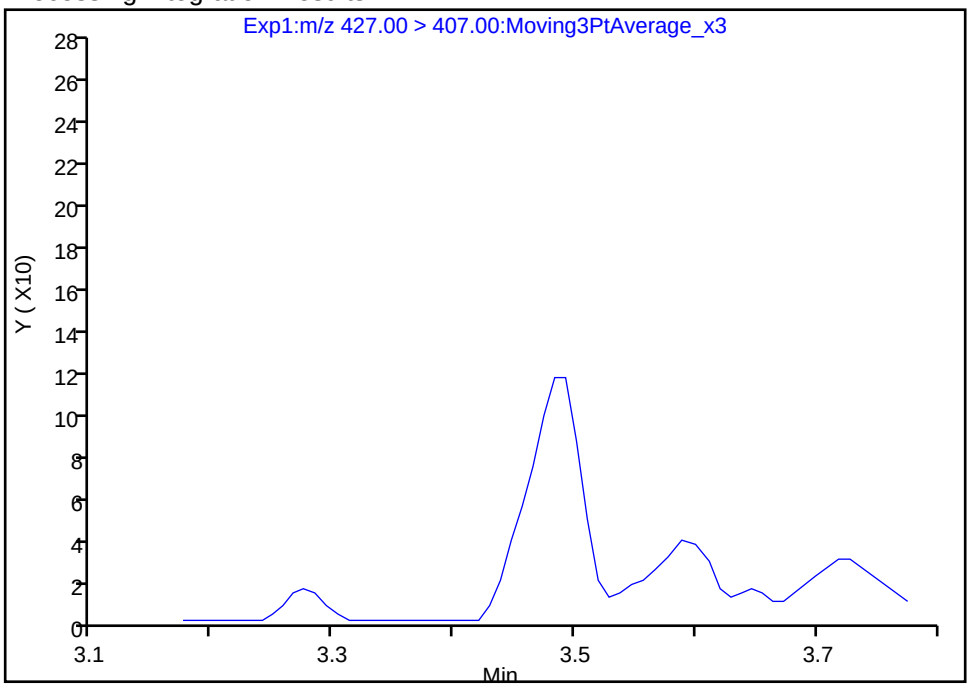
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A14.d				
Injection Date:	26-Feb-2021 14:34:08	Instrument ID:	LC812		
Lims ID:	480-181249-A-4-A	Lab Sample ID:	200-181249-4		
Client ID:	SB-12A (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

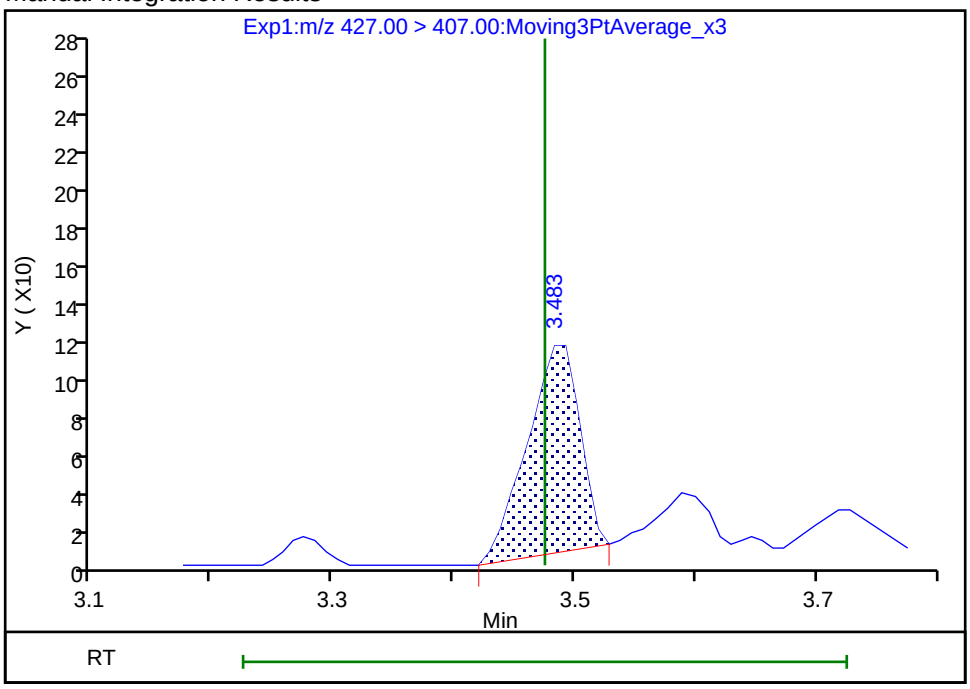
Not Detected
Expected RT: 3.48

Processing Integration Results



Manual Integration Results

RT: 3.48
Area: 328
Amount: 0.003401
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:13:00
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

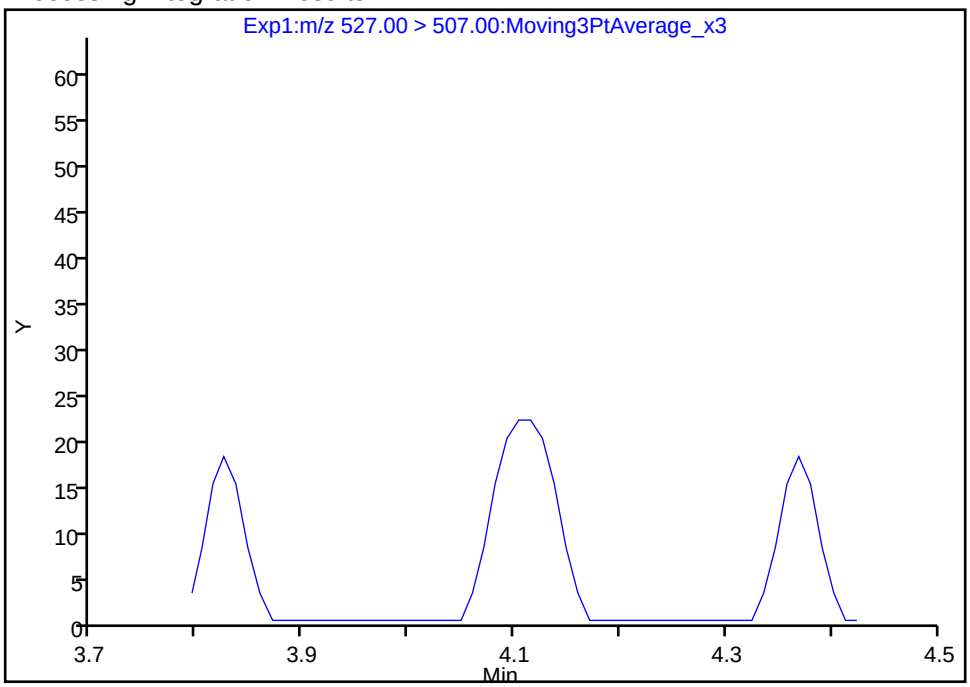
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A14.d				
Injection Date:	26-Feb-2021 14:34:08	Instrument ID:	LC812		
Lims ID:	480-181249-A-4-A	Lab Sample ID:	200-181249-4		
Client ID:	SB-12A (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

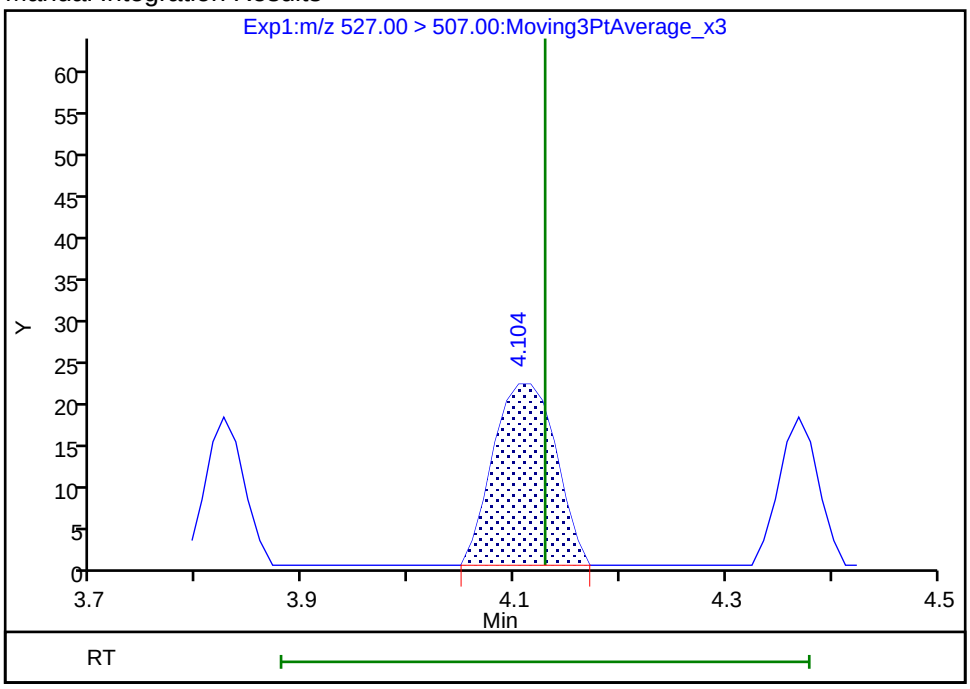
Not Detected
Expected RT: 4.13

Processing Integration Results



Manual Integration Results

RT: 4.10
Area: 90
Amount: 0.001470
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:14:02
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

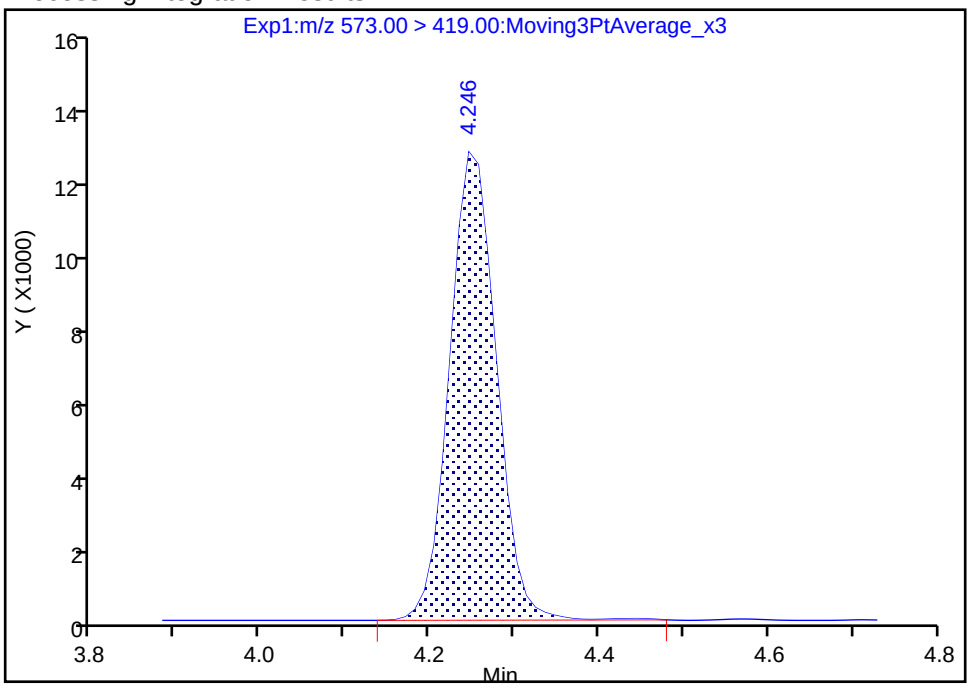
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A14.d				
Injection Date:	26-Feb-2021 14:34:08	Instrument ID:	LC812		
Lims ID:	480-181249-A-4-A	Lab Sample ID:	200-181249-4		
Client ID:	SB-12A (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

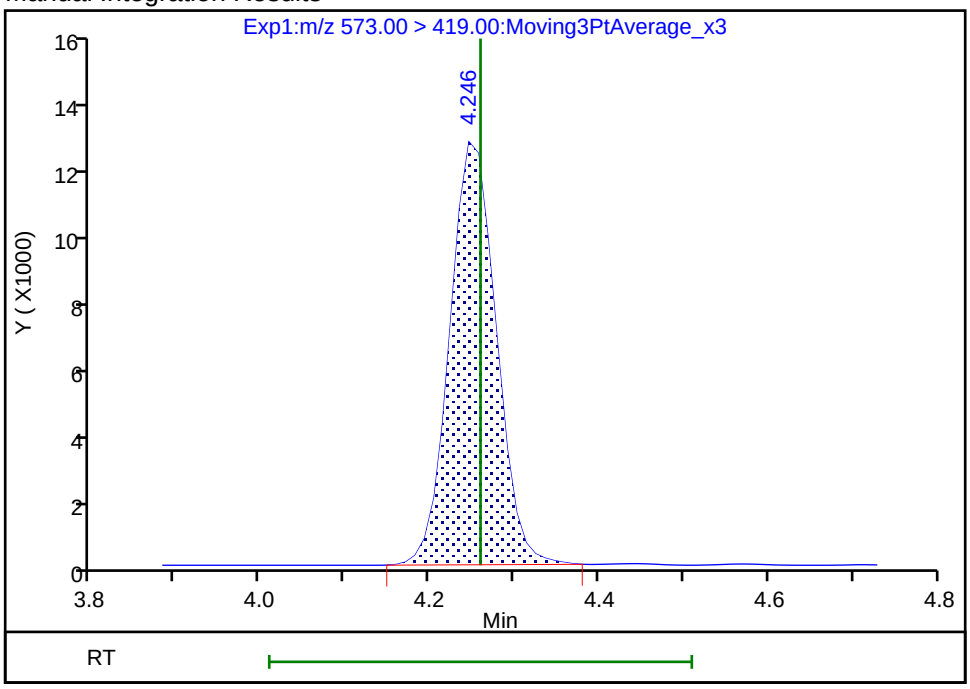
Processing Integration Results

RT: 4.25
Area: 49044
Amount: 1.154573
Amount Units: ng/ml



Manual Integration Results

RT: 4.25
Area: 48761
Amount: 1.147911
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:10:50

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

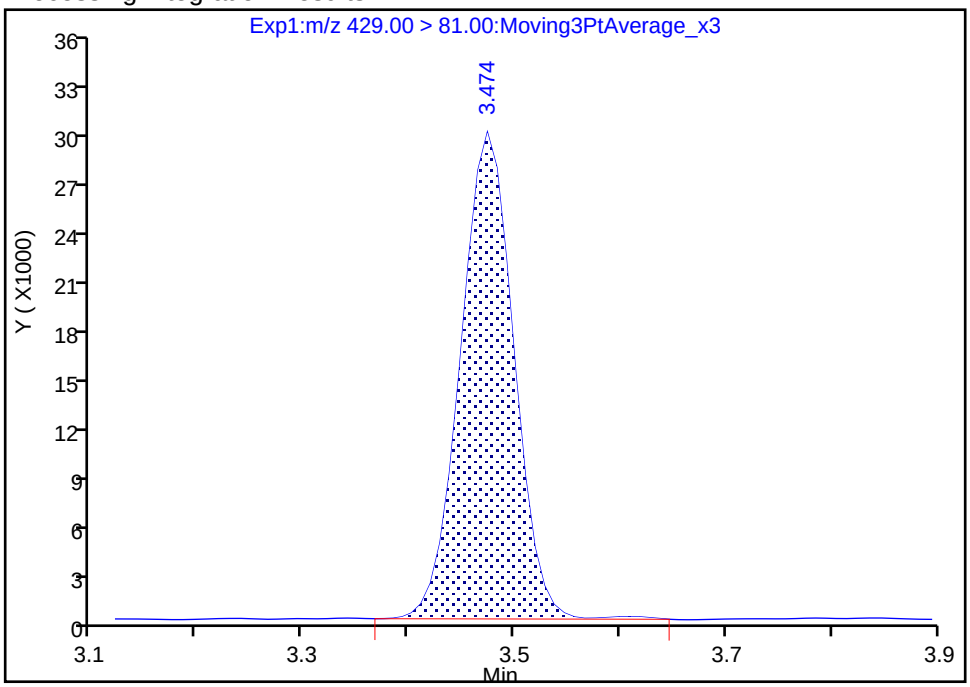
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A14.d				
Injection Date:	26-Feb-2021 14:34:08	Instrument ID:	LC812		
Lims ID:	480-181249-A-4-A	Lab Sample ID:	200-181249-4		
Client ID:	SB-12A (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 12 M2-6:2 FTS, CAS: STL02279

Signal: 1

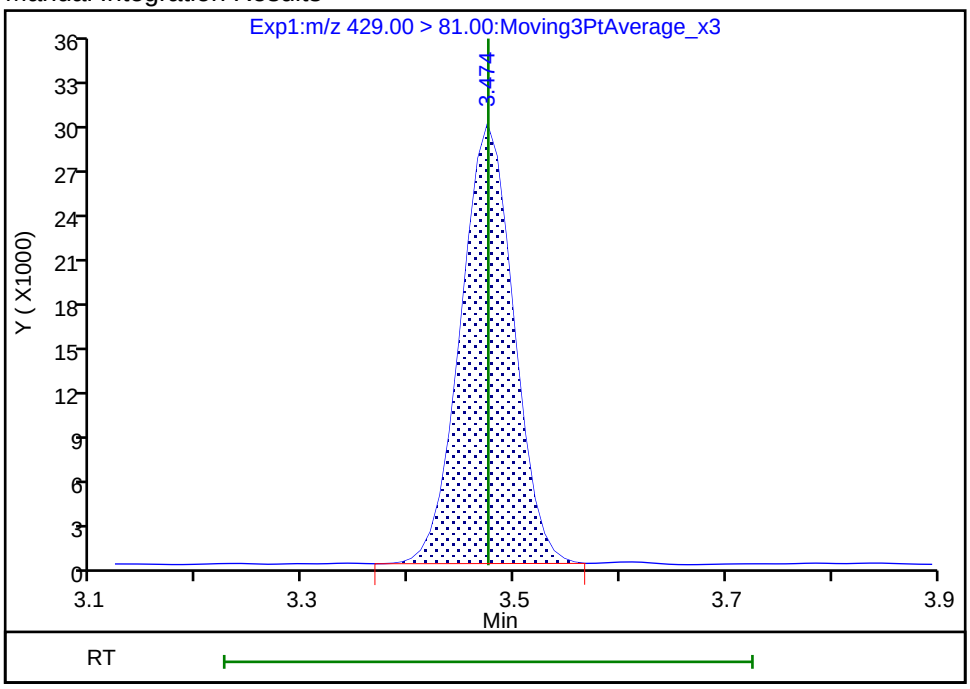
Processing Integration Results

RT: 3.47
Area: 103698
Amount: 1.244985
Amount Units: ng/ml



Manual Integration Results

RT: 3.47
Area: 102967
Amount: 1.236209
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:10:41

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

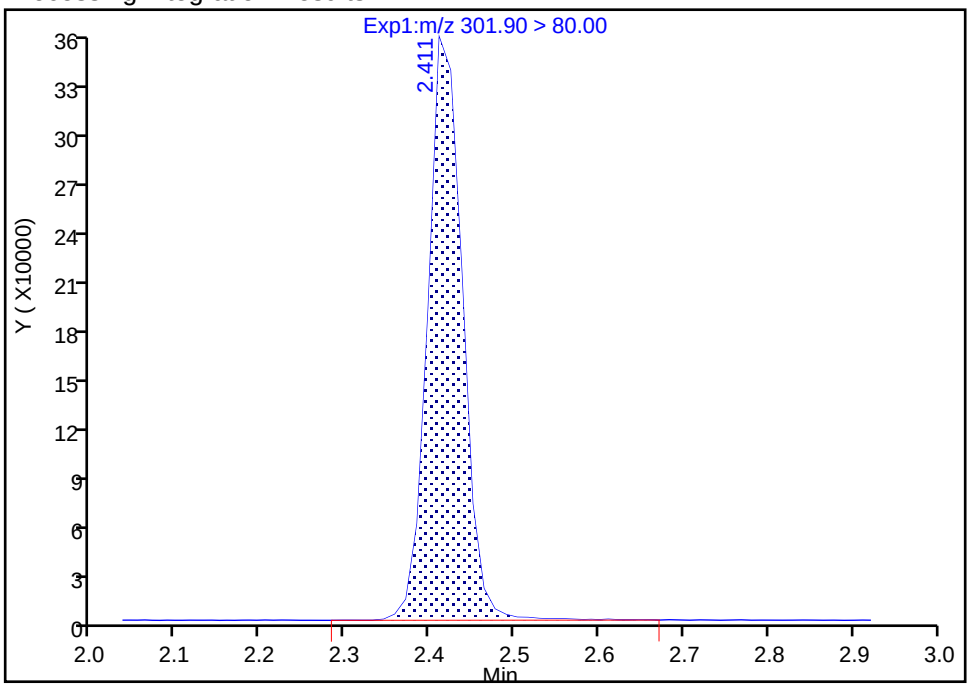
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A14.d				
Injection Date:	26-Feb-2021 14:34:08	Instrument ID:	LC812		
Lims ID:	480-181249-A-4-A	Lab Sample ID:	200-181249-4		
Client ID:	SB-12A (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

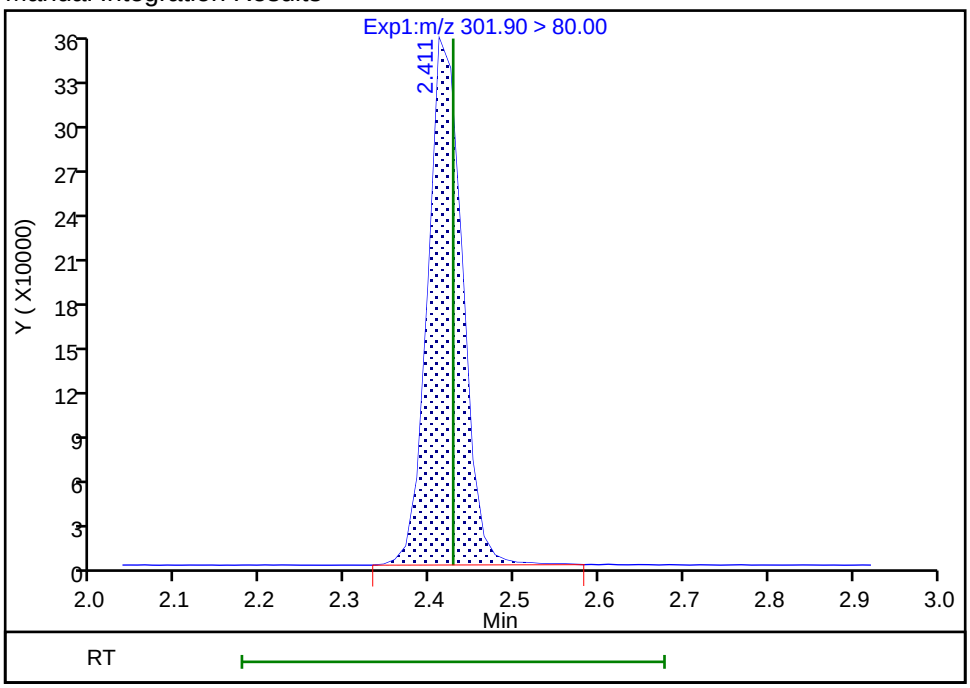
Processing Integration Results

RT: 2.41
Area: 1000562
Amount: 1.115964
Amount Units: ng/ml



Manual Integration Results

RT: 2.41
Area: 997346
Amount: 1.112377
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:10:30

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Client Sample ID: EB-20210210 Lab Sample ID: 480-181249-5

Matrix: Water Lab File ID: PA210219B09.d

Analysis Method: 537 (modified) Date Collected: 02/10/2021 11:00

Extraction Method: 3535 Date Extracted: 02/18/2021 15:01

Sample wt/vol: 286(mL) Date Analyzed: 02/19/2021 16:55

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 164133 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	4.37	U	4.37	0.99
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.75	U	1.75	0.94
307-24-4	Perfluorohexanoic acid (PFHxA)	1.75	U	1.75	0.73
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.75	U	1.75	0.40
335-67-1	Perfluorooctanoic acid (PFOA)	1.75	U	1.75	0.86
375-95-1	Perfluorononanoic acid (PFNA)	1.75	U	1.75	0.51
335-76-2	Perfluorodecanoic acid (PFDA)	1.75	U	1.75	0.40
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.75	U	1.75	0.64
307-55-1	Perfluorododecanoic acid (PFDoA)	1.75	U	1.75	0.40
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.75	U	1.75	0.38
376-06-7	Perfluorotetradecanoic acid (PFTeA)	1.75	U	1.75	0.52
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.75	U	1.75	0.55
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.75	U	1.75	0.59
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	1.75	U	1.75	0.34
335-77-3	Perfluorodecanesulfonic acid (PFDS)	1.75	U	1.75	0.42
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.75	U	1.75	0.76
754-91-6	Perfluorooctanesulfonamide (FOSA)	1.75	U	1.75	0.50
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.37	U	4.37	0.69
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.37	U	4.37	0.81
27619-97-2	6:2 FTS	4.37	U	4.37	0.63
39108-34-4	8:2 FTS	1.75	U	1.75	0.58

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Client Sample ID: EB-20210210 Lab Sample ID: 480-181249-5

Matrix: Water Lab File ID: PA210219B09.d

Analysis Method: 537 (modified) Date Collected: 02/10/2021 11:00

Extraction Method: 3535 Date Extracted: 02/18/2021 15:01

Sample wt/vol: 286(mL) Date Analyzed: 02/19/2021 16:55

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 164133 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	69		25-150
STL00992	13C4 PFBA	109		25-150
STL01893	13C5 PFPeA	109		25-150
STL00993	13C2 PFHxA	110		50-150
STL01892	13C4 PFHpA	109		50-150
STL00990	13C4 PFOA	104		50-150
STL00995	13C5 PFNA	105		50-150
STL00996	13C2 PFDA	94		50-150
STL00997	13C2 PFUnA	85		50-150
STL00998	13C2 PFDoA	74		50-150
STL02116	13C2 PFTeDA	69		50-150
STL02337	13C3 PFBS	103		50-150
STL00994	18O2 PFHxS	102		50-150
STL00991	13C4 PFOS	102		50-150
STL02118	d3-NMeFOSAA	81		50-150
STL02117	d5-NEtFOSAA	75		50-150
STL02279	M2-6:2 FTS	104		25-150
STL02280	M2-8:2 FTS	104		25-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B09.d
Lims ID: 480-181249-G-5-A
Client ID: EB-20210210
Sample Type: Client
Inject. Date: 19-Feb-2021 16:55:01 ALS Bottle#: 24 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 480-181249-G-5-A
Misc. Info.: 200-0044899-009 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 23-Feb-2021 11:35:09 Calib Date: 22-Dec-2020 13:29:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1628

First Level Reviewer: khanphomeea Date: 22-Feb-2021 14:01:10
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.082	2.082	0.0	0.596	1432418	1.37		109	11814	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.082	2.082	0.0	1.000	14184	0.0124			2.8	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.401	2.400	0.001	0.687	1028936	1.36		109	3333	
D 47 13C3 PFBS										M
301.90 > 80.00	2.427	2.426	0.001	0.695	1189698	1.19		103	223527	M
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.427	2.426	0.001	1.000	2862	0.002472	Target=2.21		7.3	
298.90 > 99.00	2.427	2.426	0.001	1.000	1304		2.19(1.11-3.32)		1.1	
D 7 13C2 PFHxA										
315.00 > 270.00	2.759	2.758	0.001	0.790	1087394	1.37		110	3140	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.759	2.758	0.001	1.000	4692	0.004937	Target=12.83		1.5	M
313.00 > 119.00	2.771	2.758	0.013	1.004	562		8.35(6.42-19.25)		1.1	M
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.133	3.122	0.011	1.000	2912	0.003268	Target=4.15		14.9	M
399.00 > 99.00	3.133	3.122	0.011	1.000	1087		2.68(2.08-6.23)		1.4	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.133	3.122	0.011	0.897	894202	1.21		102	2744	
D 9 13C4 PFHpA										
367.00 > 322.00	3.133	3.122	0.011	0.897	1037502	1.37		109	2169	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.133	3.122	0.011	1.000	2675	0.002951	Target=3.66		1.0	M
363.00 > 169.00	3.133	3.122	0.011	1.000	563		4.75(1.83-5.49)		1.5	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.484	3.474	0.010	0.997	114790	1.24		104	376	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.493	3.474	0.019	1.003	249	0.002316			4.4	M
D 14 13C4 PFOA										
417.00 > 372.00	3.493	3.483	0.010	1.000	1004372	1.30		104	2605	
* 62 13C2 PFOA										
415.00 > 370.00	3.493	3.483	0.010		974508	1.25			1051	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.493	3.483	0.010	1.000	3458	0.003970	Target=2.58		0.9	M
413.00 > 169.00	3.484	3.483	0.001	0.997	951		3.64(1.29-3.87)		2.3	M
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.798	3.794	0.004	1.000	2147	0.003595	Target=5.65		2.8	RM
499.00 > 99.00	3.592	3.794	-0.202	0.946	1300		1.65(2.82-8.47)		1.6	M
D 18 13C4 PFOS										
503.00 > 80.00	3.798	3.794	0.004	1.087	620585	1.22		102	2485	
D 19 13C5 PFNA										
468.00 > 423.00	3.818	3.814	0.004	1.093	893132	1.31		105	3872	
D 23 13C2 PFDA										
515.00 > 470.00	4.108	4.104	0.004	1.176	761857	1.17		93.7	3055	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.120	4.115	0.005	1.179	118526	1.24		104	573	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.142	4.115	0.027	1.005	216	0.003209			7.8	M
D 21 13C8 FOSA										
506.00 > 78.00	4.219	4.215	0.004	1.208	823904	0.8614		68.9	2347	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.209	4.215	-0.006	0.998	620	0.000939			7.8	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.251	4.246	0.005	1.217	47560	1.01		80.6	479	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.240	4.246	-0.006	0.997	42	0.001245			0.6	M
29 Perfluorodecanesulfonic acid										RM
599.00 > 80.00	4.331	4.336	-0.005	1.140	94	0.000265	Target=2.80		1.7	RM
599.00 > 99.00	4.331	4.336	-0.005	1.140	98		0.96(1.40-4.19)		1.0	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.375	4.358	0.017	1.253	566915	1.06		84.9	2979	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.387	4.369	0.017	1.256	42592	0.9336		74.7	353	
D 36 13C2 PFDoA										
615.00 > 570.00	4.598	4.591	0.007	1.316	523858	0.9284		74.3	2957	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.981	4.966	0.015	1.426	362442	0.8685		69.5	1879	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	4.991	4.966	0.025	1.002	33	0.000614	Target=1.06		1.7	M
713.00 > 219.00	4.981	4.966	0.015	1.000	61		0.54(0.53-1.59)		2.5	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Report Date: 23-Feb-2021 11:35:24 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B09.d

Injection Date: 19-Feb-2021 16:55:01 Instrument ID: LC812

Lims ID: 480-181249-G-5-A Lab Sample ID: 200-181249-5

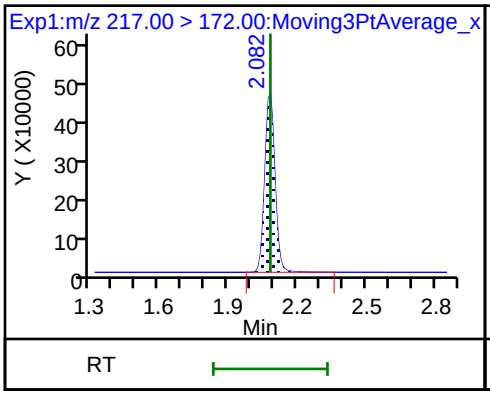
Client ID: EB-20210210

Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 9

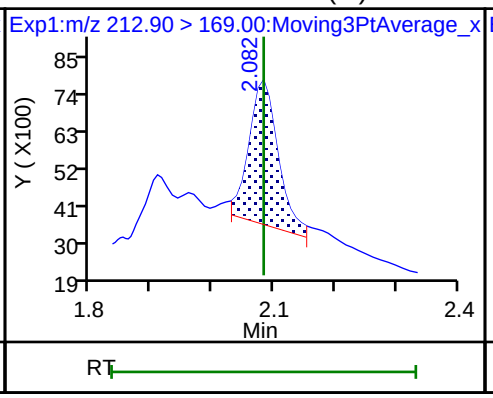
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

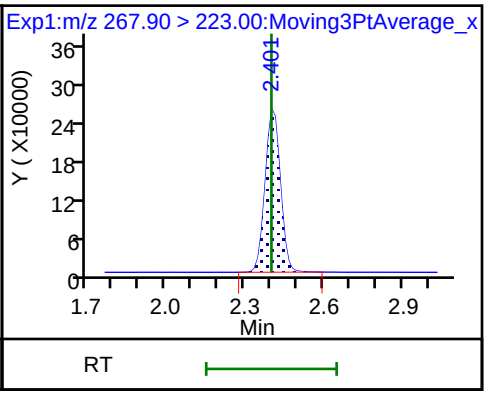
D 1 13C4 PFBA



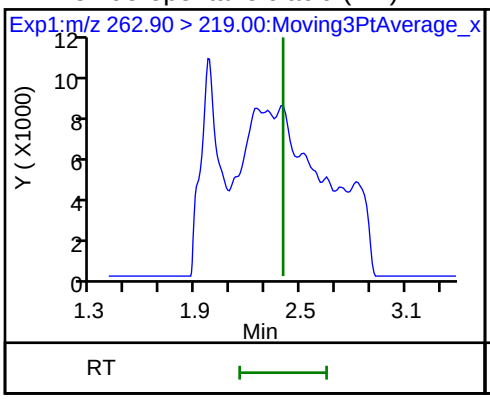
2 Perfluorobutanoic acid (M)



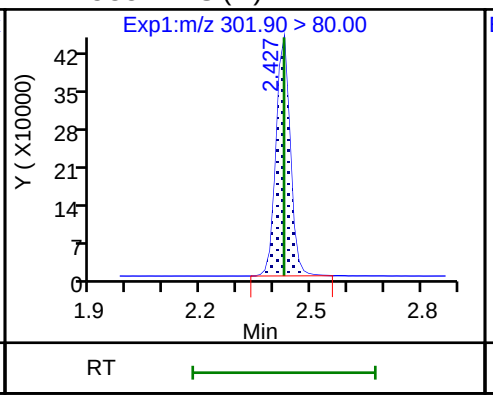
D 3 13C5 PFPeA



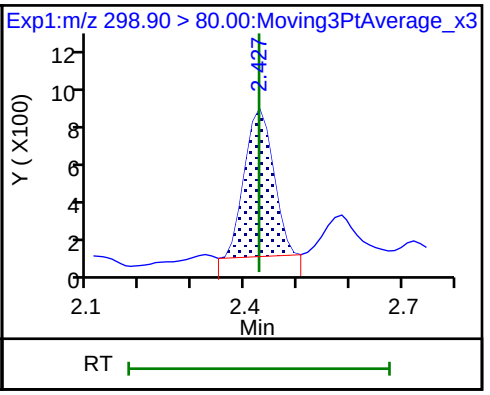
4 Perfluoropentanoic acid (ND)



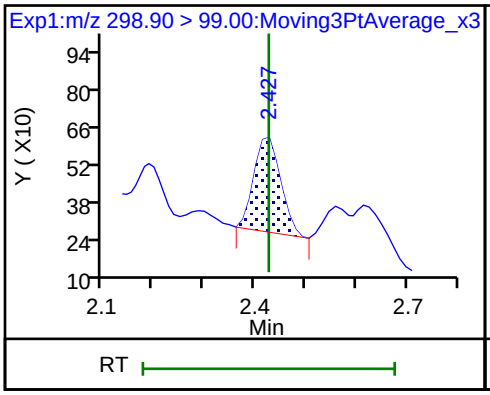
D 47 13C3 PFBS (M)



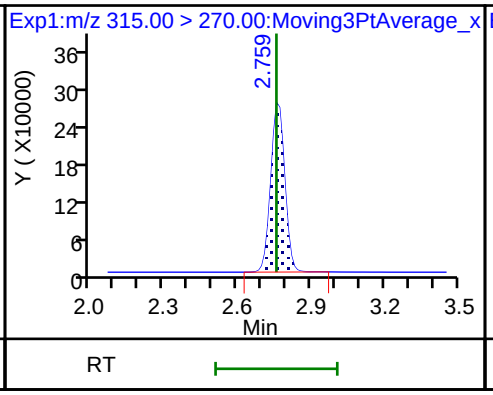
5 Perfluorobutanesulfonic acid



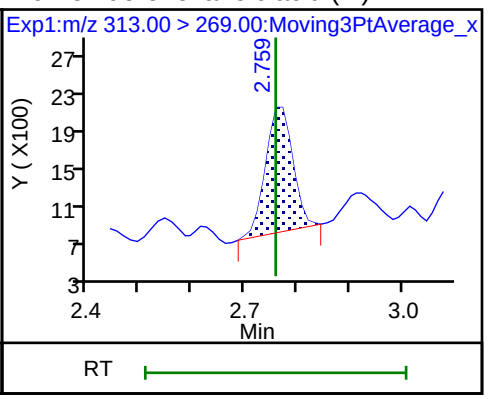
5 Perfluorobutanesulfonic acid



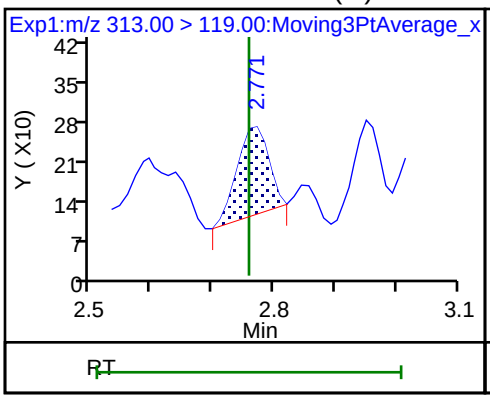
D 7 13C2 PFHxA



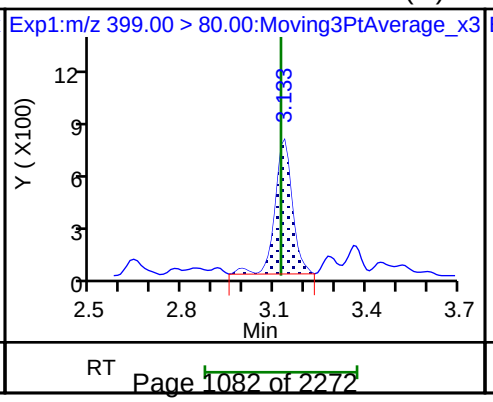
6 Perfluorohexanoic acid (M)



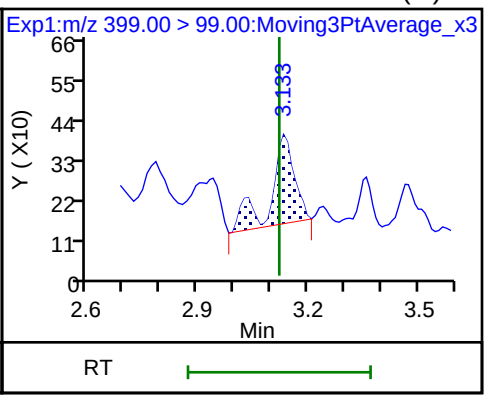
6 Perfluorohexanoic acid (M)



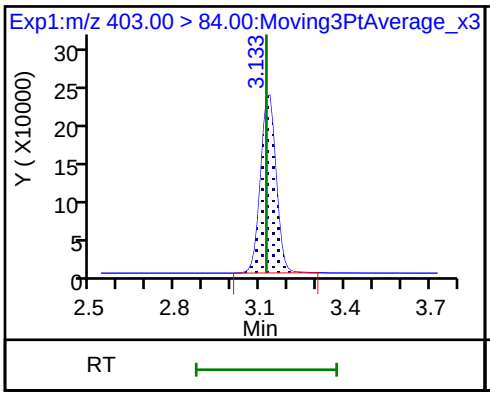
8 Perfluorohexanesulfonic acid (M)



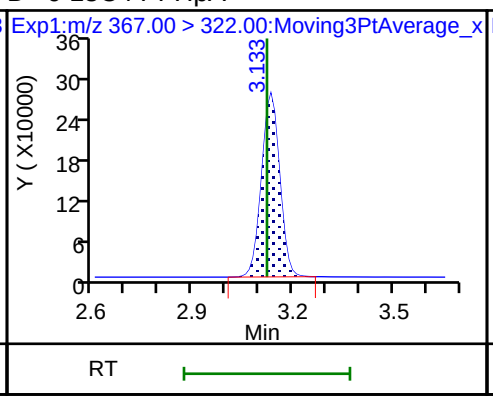
8 Perfluorohexanesulfonic acid (M)



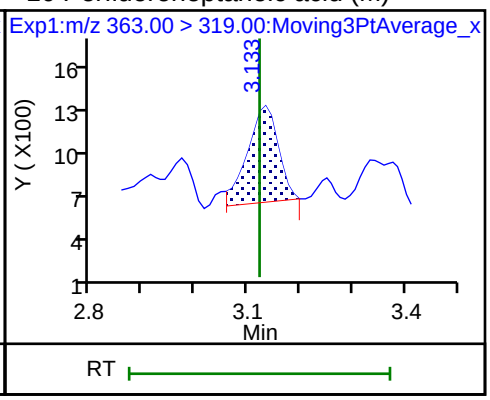
D 11 18O2 PFHxS



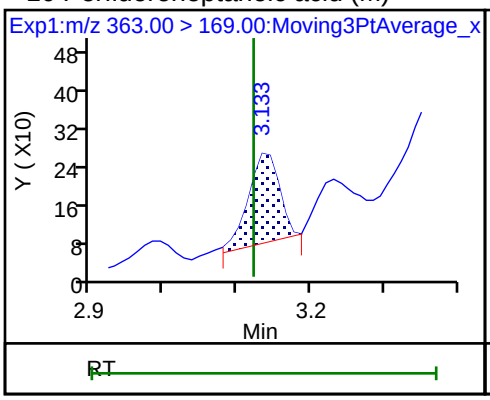
D 9 13C4 PFHpA



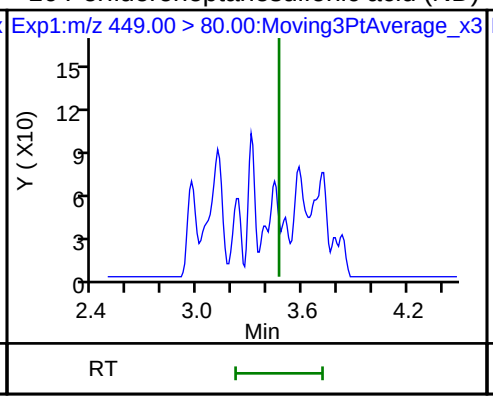
10 Perfluoroheptanoic acid (M)



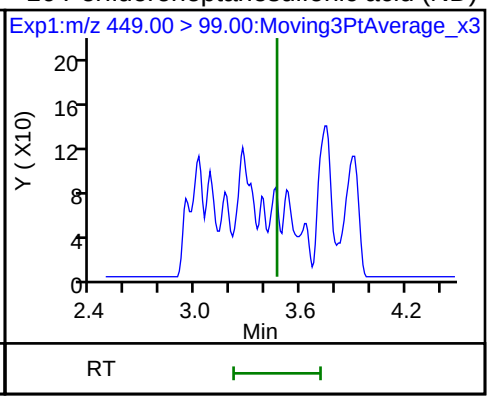
10 Perfluoroheptanoic acid (M)



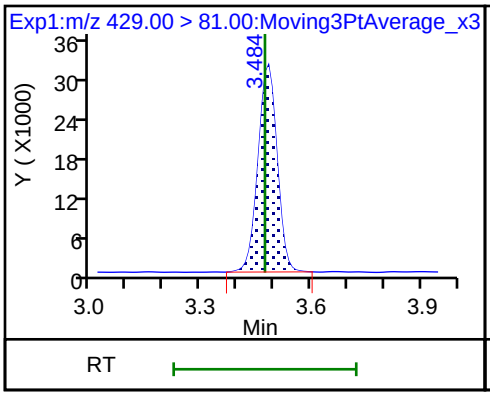
16 Perfluoroheptanesulfonic acid (ND)



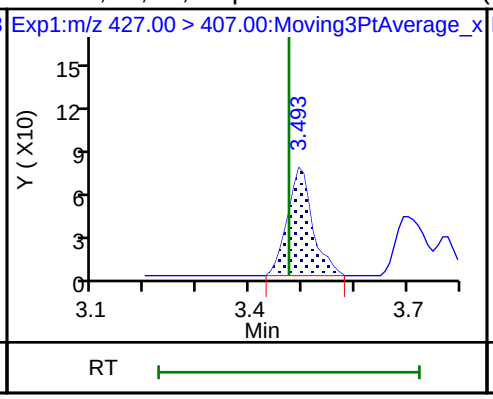
16 Perfluoroheptanesulfonic acid (ND)



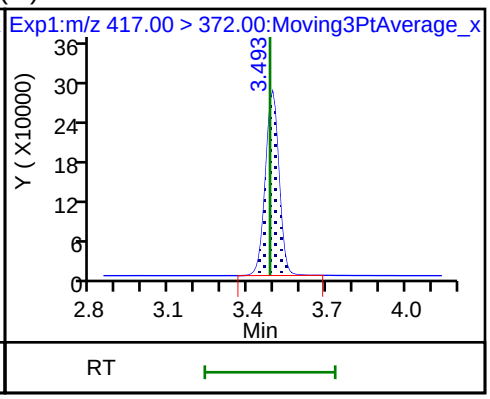
D 12 M2-6:2 FTS



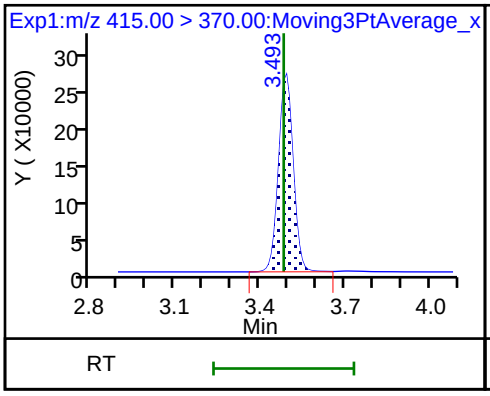
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



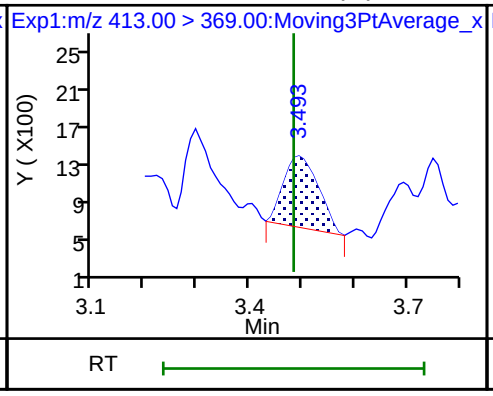
D 14 13C4 PFOA



* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)



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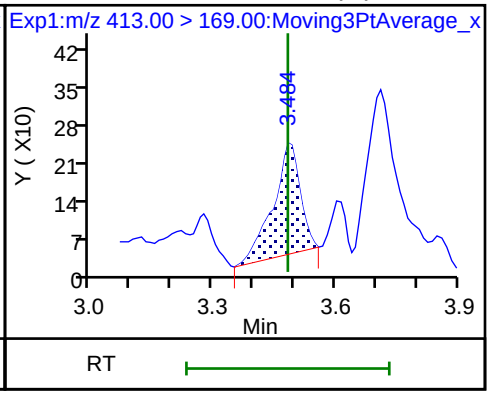
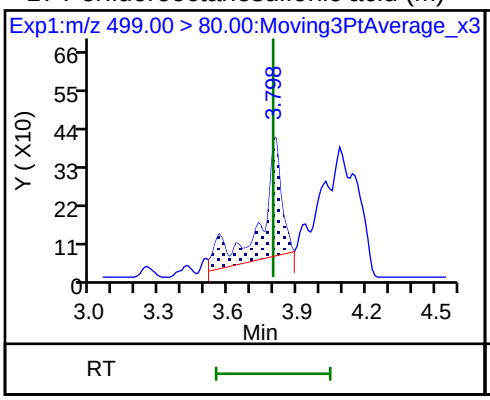
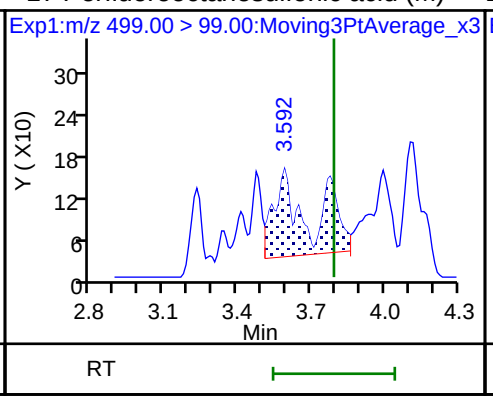


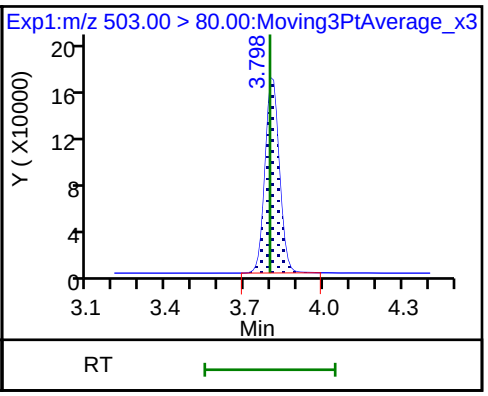
17 Perfluorooctanesulfonic acid (M)



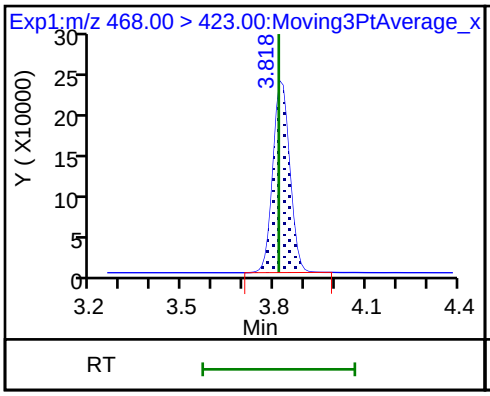
17 Perfluorooctanesulfonic acid (M)



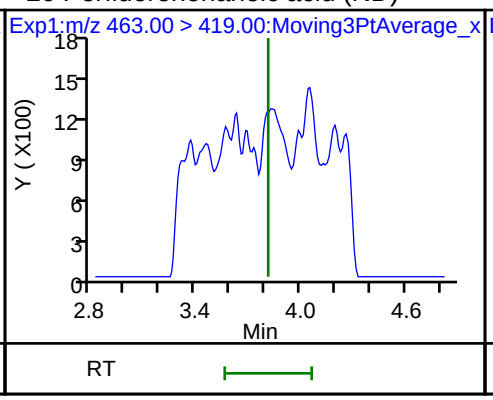
D 18 13C4 PFOS



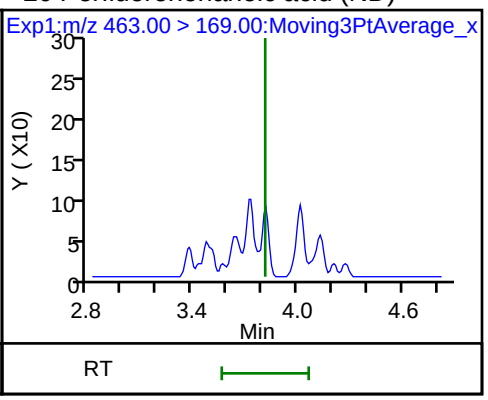
D 19 13C5 PFNA



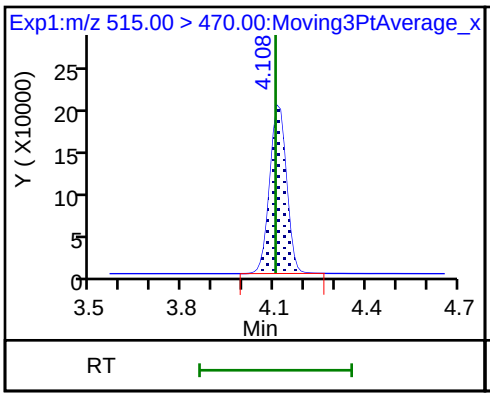
20 Perfluorononanoic acid (ND)



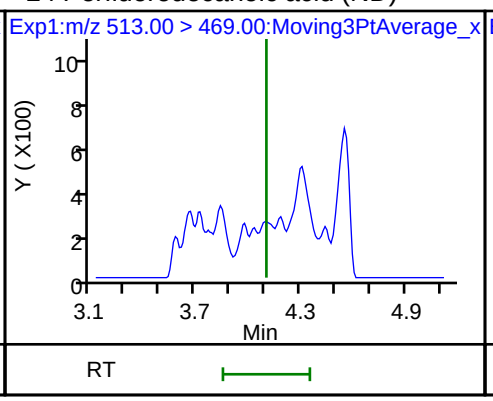
20 Perfluorononanoic acid (ND)



D 23 13C2 PFDA



24 Perfluorodecanoic acid (ND)



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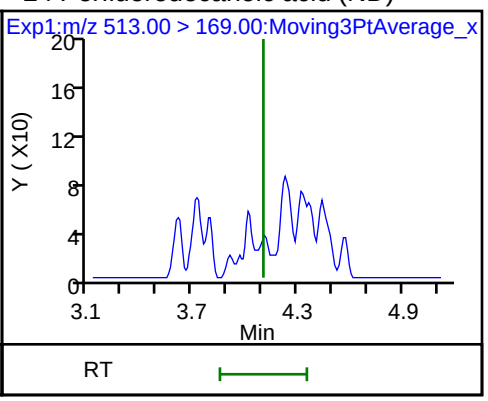
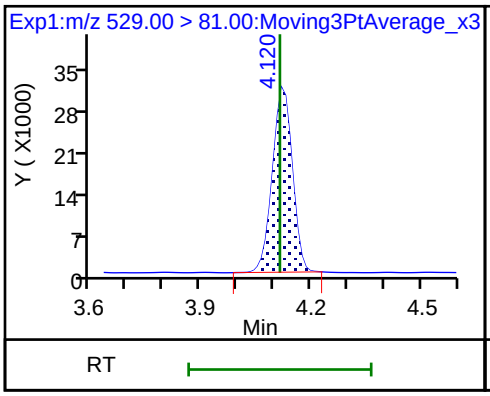
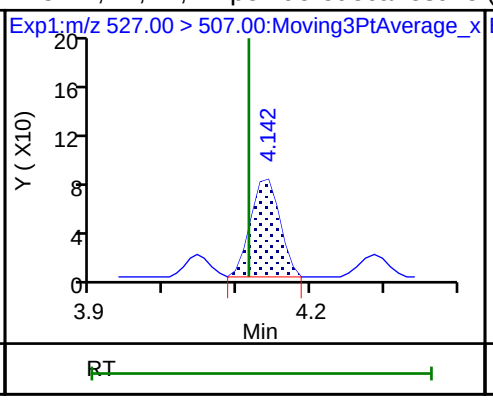


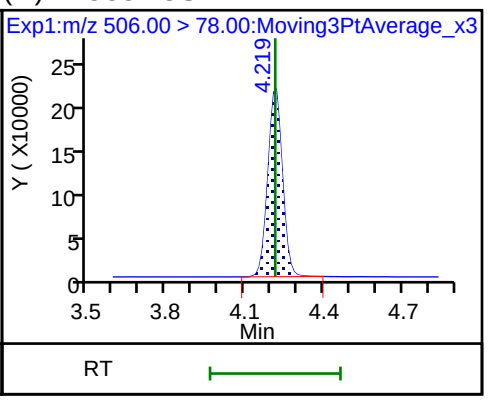
D 26 M2-8:2 FTS



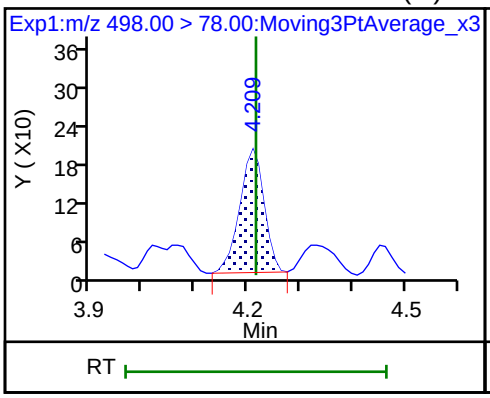
25 1H,1H,2H,2H-perfluorodecanesulfo



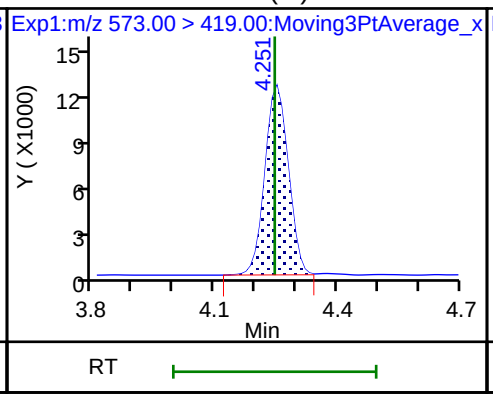
D 21 13C8 FOSA



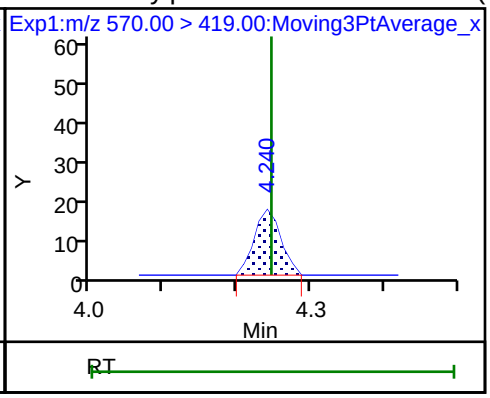
22 Perfluorooctanesulfonamide (M)



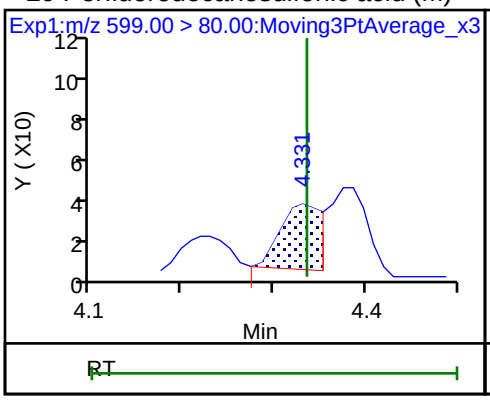
D 27 d3-NMeFOSAA (M)



28 N-methylperfluorooctanesulfonami (M)



29 Perfluorodecanesulfonic acid (M)



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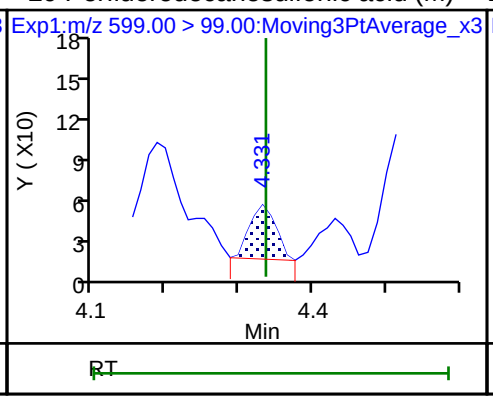
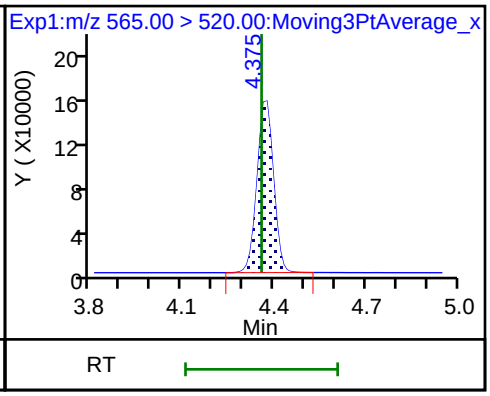
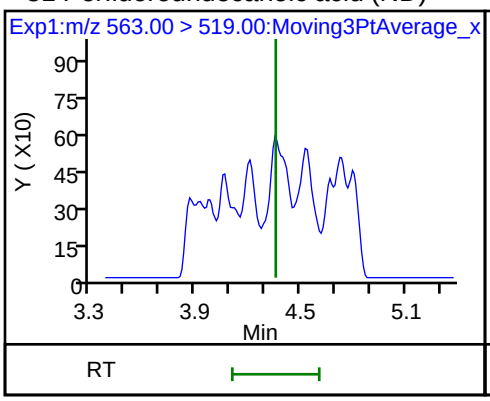


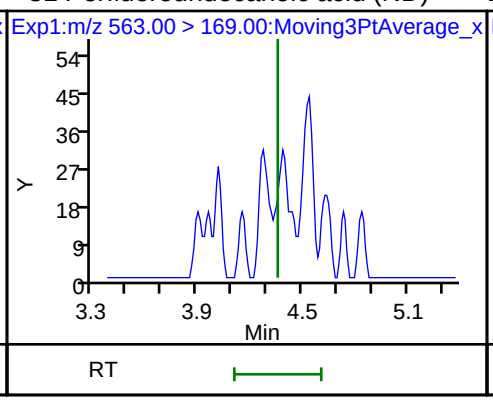
D 30 13C2 PFUnA



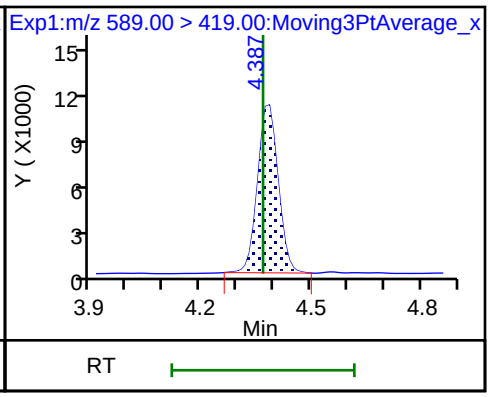
31 Perfluoroundecanoic acid (ND)



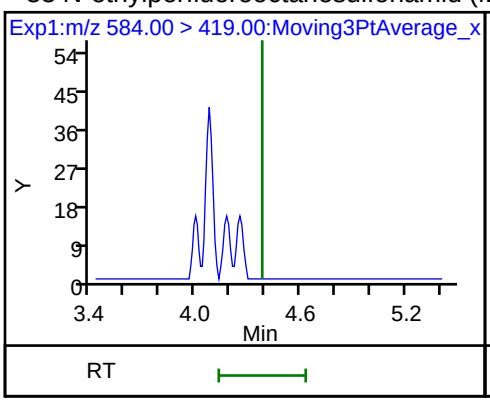
31 Perfluoroundecanoic acid (ND)



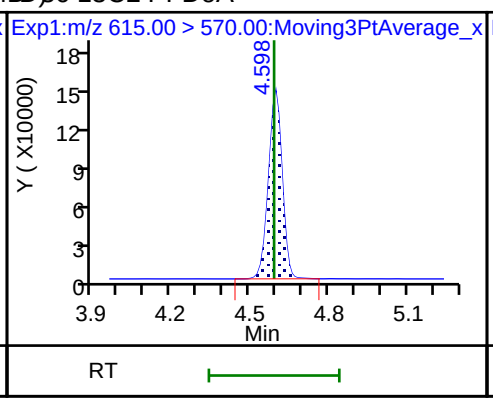
D 32 d5-NEtFOSAA



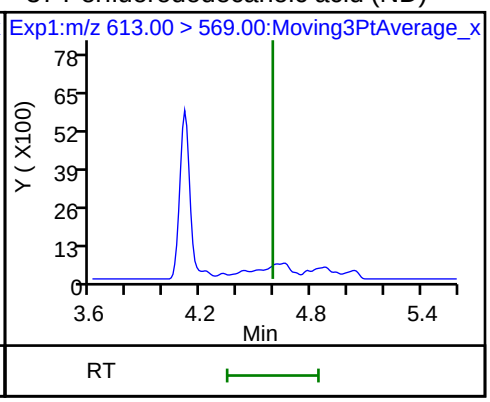
33 N-ethylperfluorooctanesulfonamid (ND)



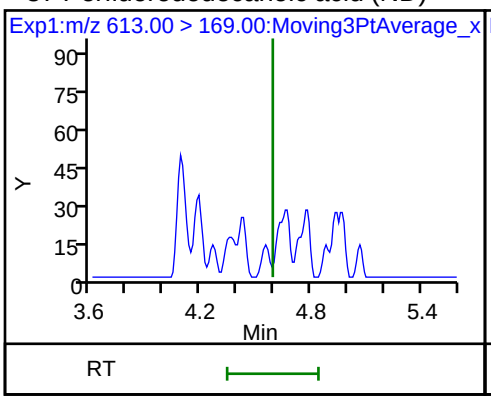
D 36 13C2 PFDoA



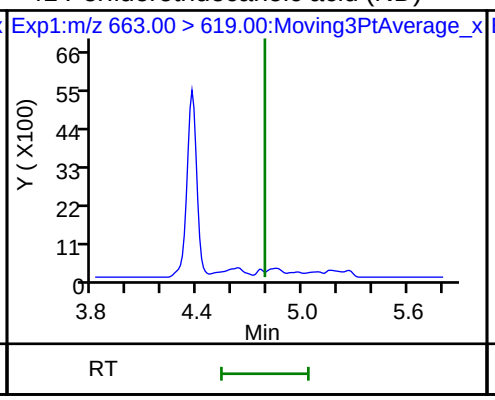
37 Perfluorododecanoic acid (ND)



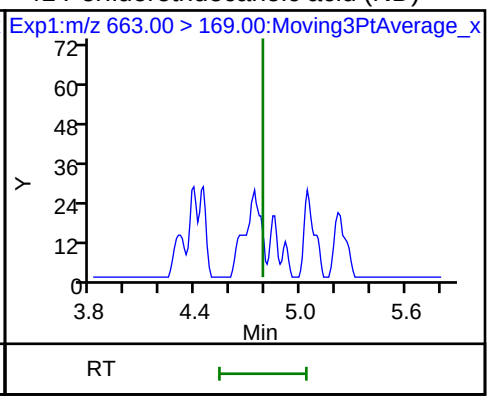
37 Perfluorododecanoic acid (ND)



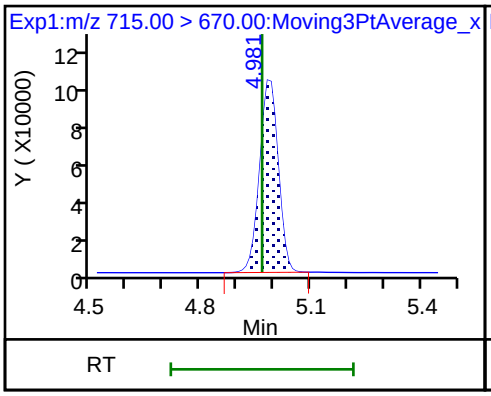
41 Perfluorotridecanoic acid (ND)



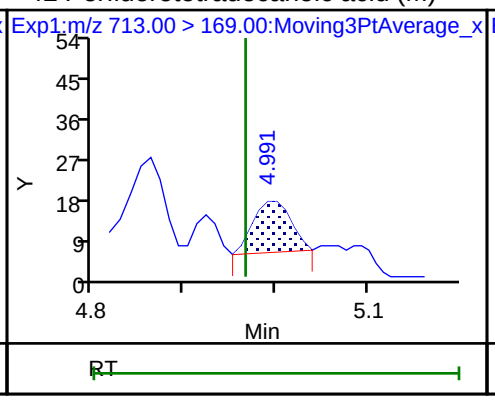
41 Perfluorotridecanoic acid (ND)



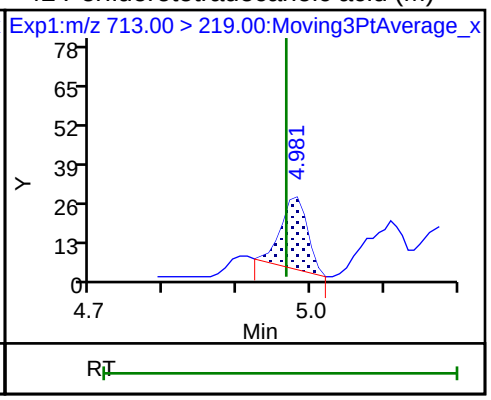
D 43 13C2 PFTeDA



42 Perfluorotetradecanoic acid (M)



42 Perfluorotetradecanoic acid (M)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

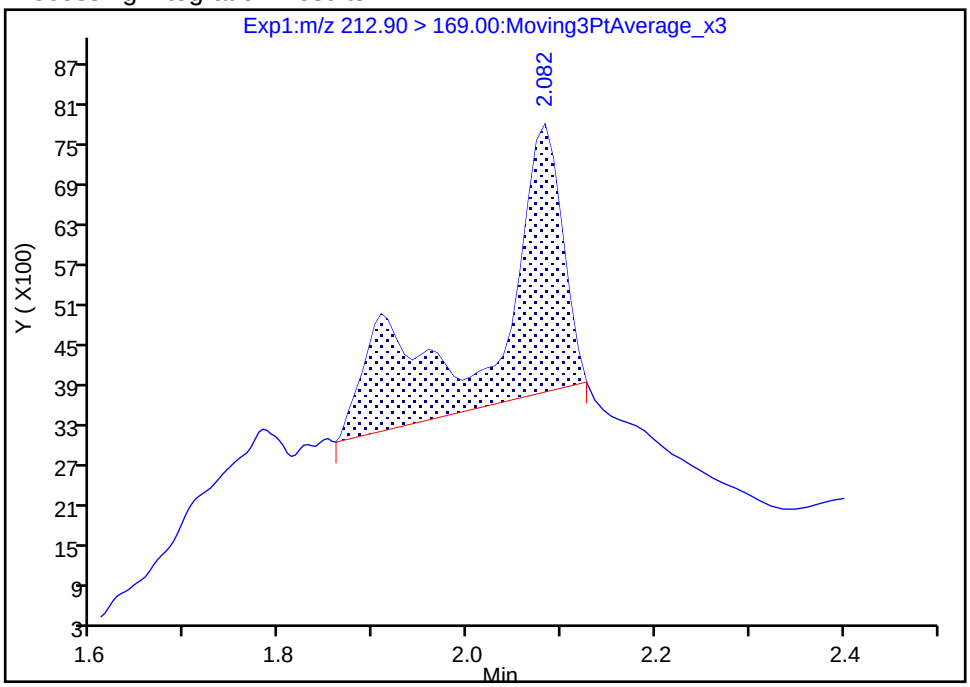
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B09.d				
Injection Date:	19-Feb-2021 16:55:01	Instrument ID:	LC812		
Lims ID:	480-181249-G-5-A	Lab Sample ID:	200-181249-5		
Client ID:	EB-20210210				
Operator ID:	lc812tech	ALS Bottle#:	24	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

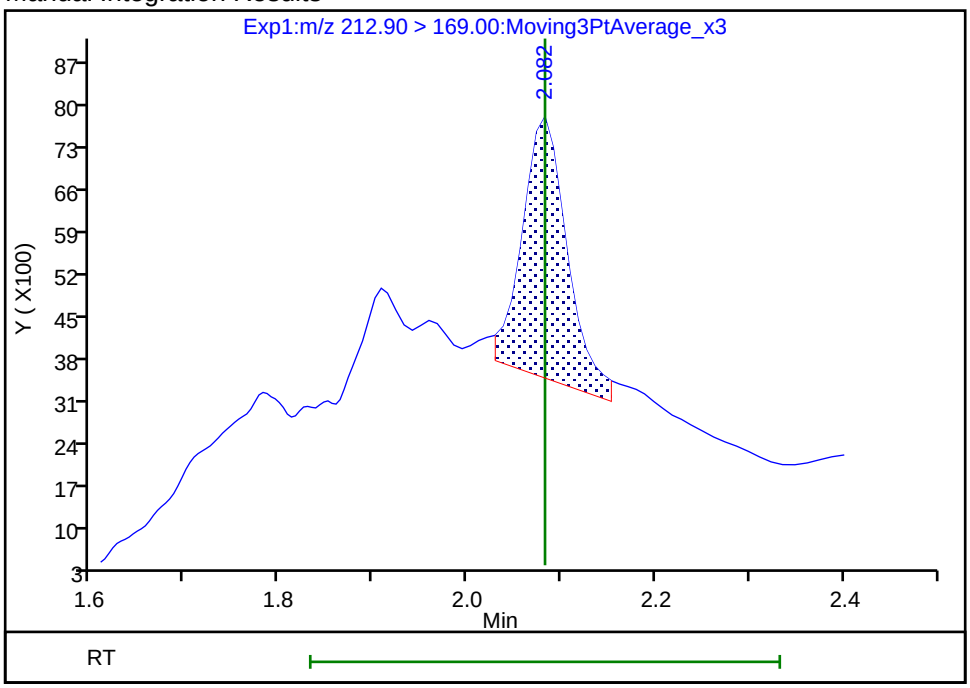
Processing Integration Results

RT: 2.08
Area: 20642
Amount: 0.017977
Amount Units: ng/ml



Manual Integration Results

RT: 2.08
Area: 14184
Amount: 0.012353
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 13:56:32

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

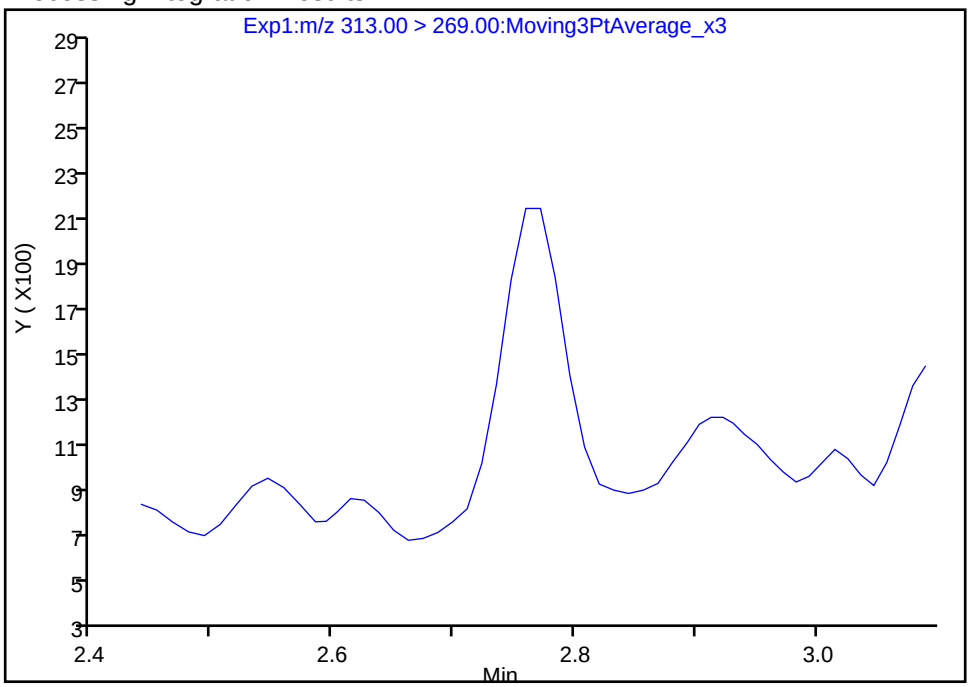
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B09.d				
Injection Date:	19-Feb-2021 16:55:01	Instrument ID:	LC812		
Lims ID:	480-181249-G-5-A	Lab Sample ID:	200-181249-5		
Client ID:	EB-20210210				
Operator ID:	lc812tech	ALS Bottle#:	24	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

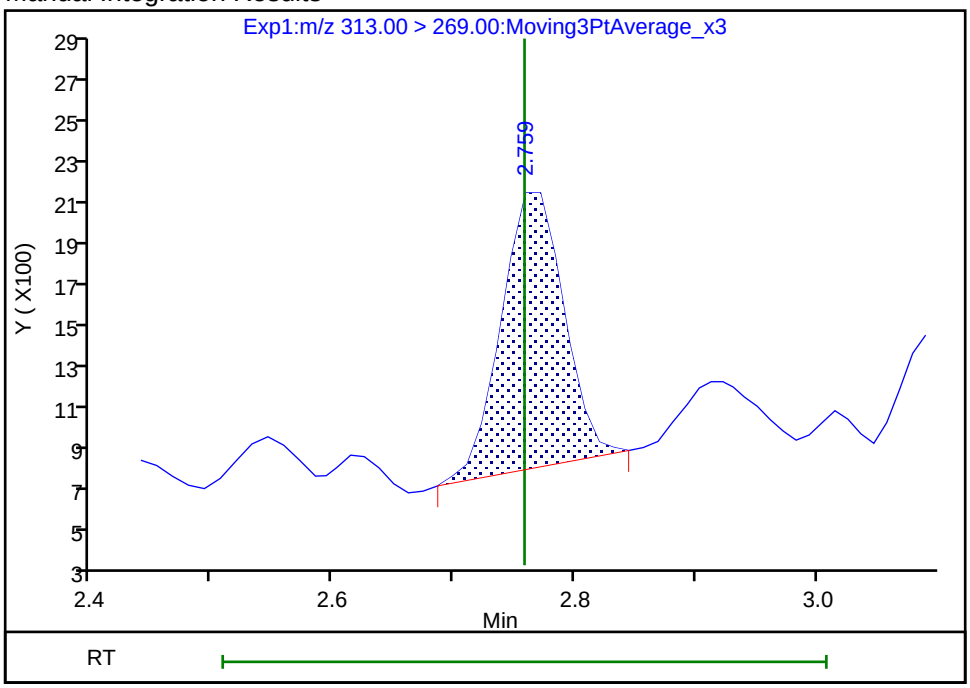
Not Detected
Expected RT: 2.76

Processing Integration Results



Manual Integration Results

RT: 2.76
Area: 4692
Amount: 0.004937
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 13:57:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

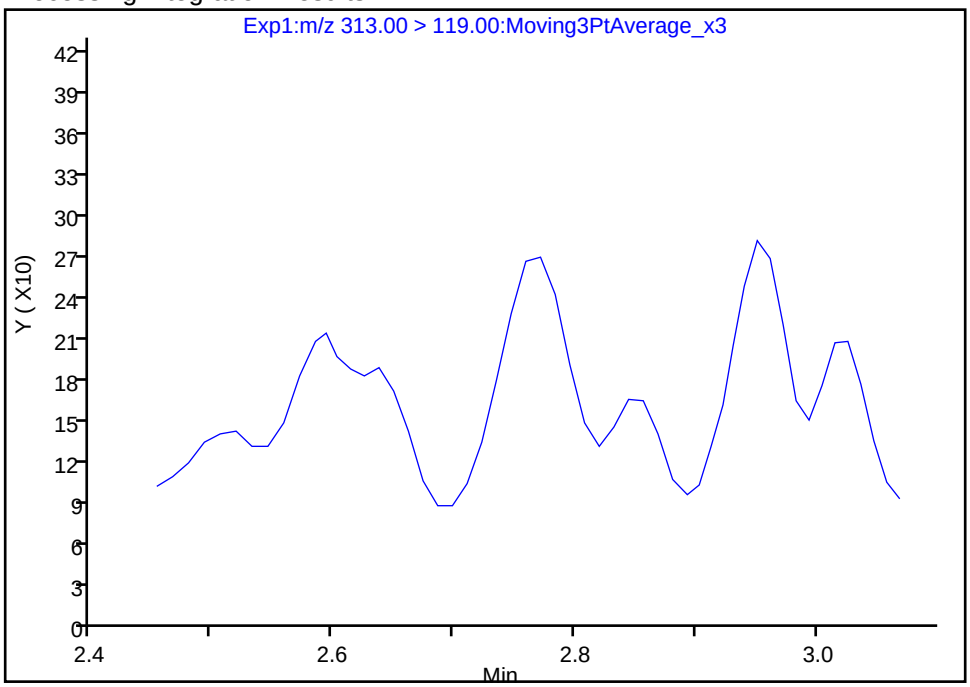
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B09.d				
Injection Date:	19-Feb-2021 16:55:01	Instrument ID:	LC812		
Lims ID:	480-181249-G-5-A	Lab Sample ID:	200-181249-5		
Client ID:	EB-20210210				
Operator ID:	lc812tech	ALS Bottle#:	24	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

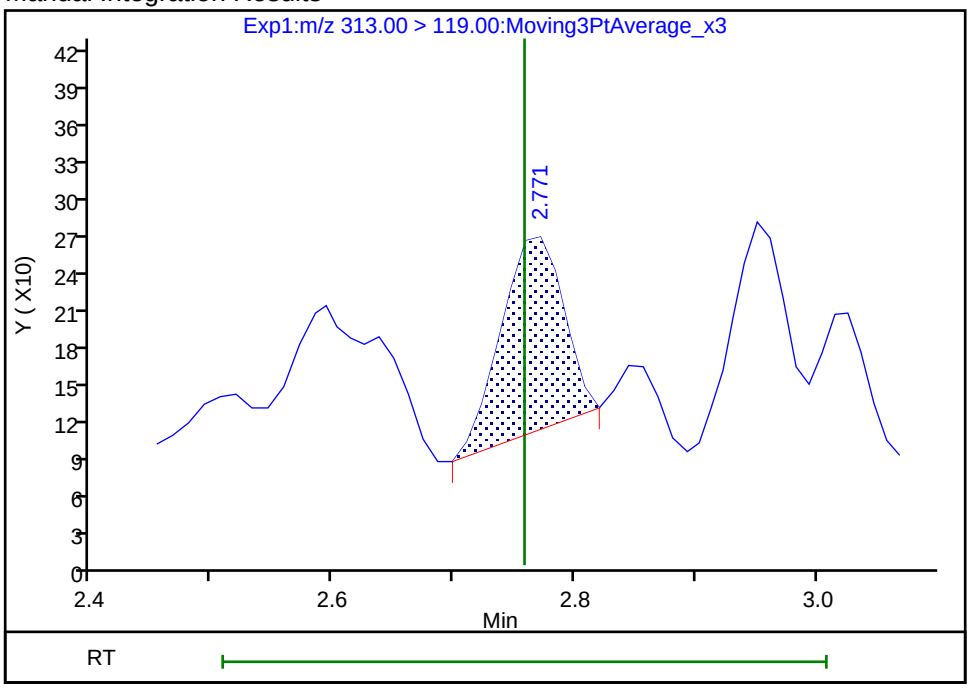
Processing Integration Results

Not Detected
Expected RT: 2.76



Manual Integration Results

RT: 2.77
Area: 562
Amount: 0.004937
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 13:57:19
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

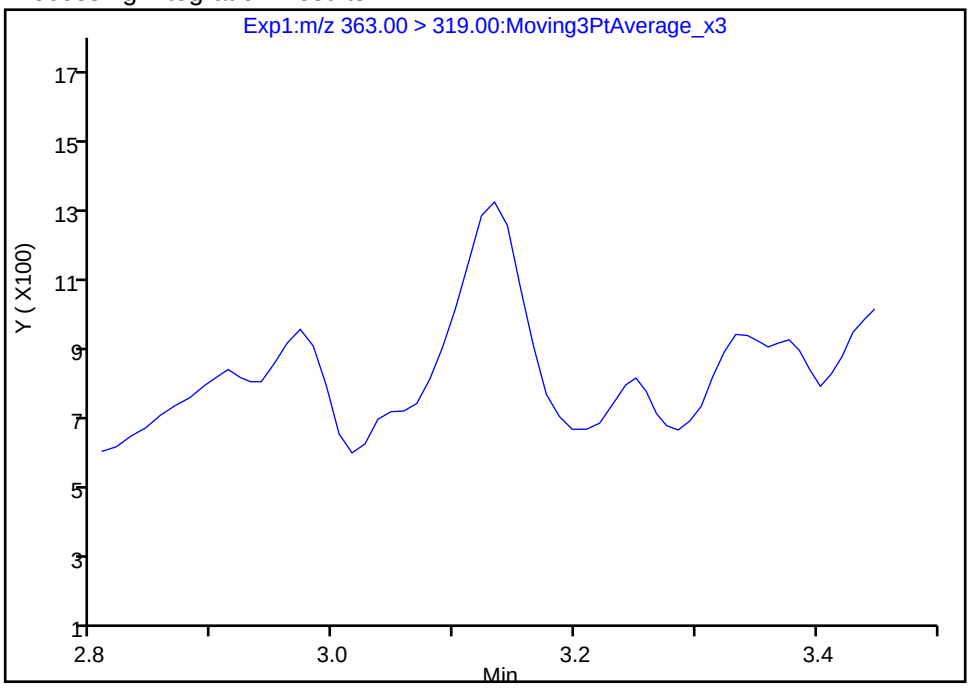
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B09.d				
Injection Date:	19-Feb-2021 16:55:01	Instrument ID:	LC812		
Lims ID:	480-181249-G-5-A	Lab Sample ID:	200-181249-5		
Client ID:	EB-20210210				
Operator ID:	lc812tech	ALS Bottle#:	24	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

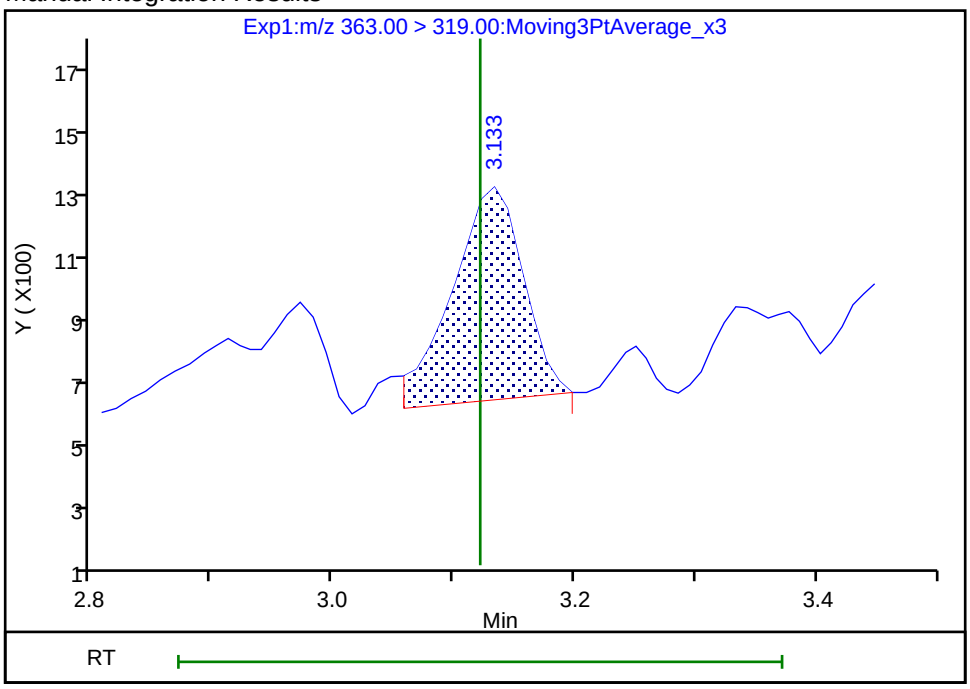
Not Detected
Expected RT: 3.12

Processing Integration Results



Manual Integration Results

RT: 3.13
Area: 2675
Amount: 0.002951
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 13:58:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

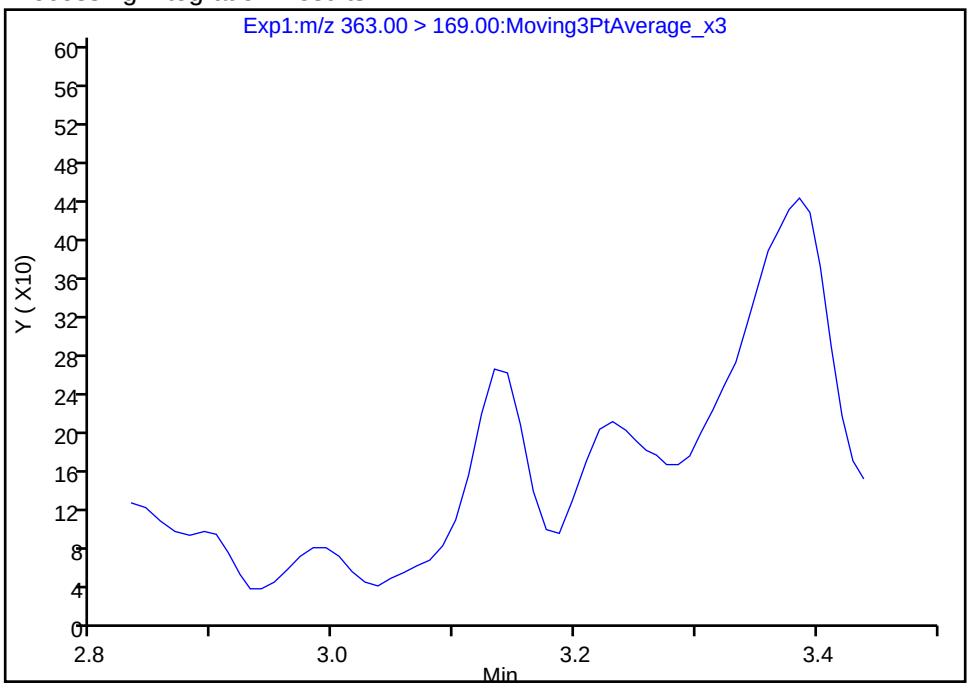
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B09.d				
Injection Date:	19-Feb-2021 16:55:01	Instrument ID:	LC812		
Lims ID:	480-181249-G-5-A	Lab Sample ID:	200-181249-5		
Client ID:	EB-20210210				
Operator ID:	lc812tech	ALS Bottle#:	24	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

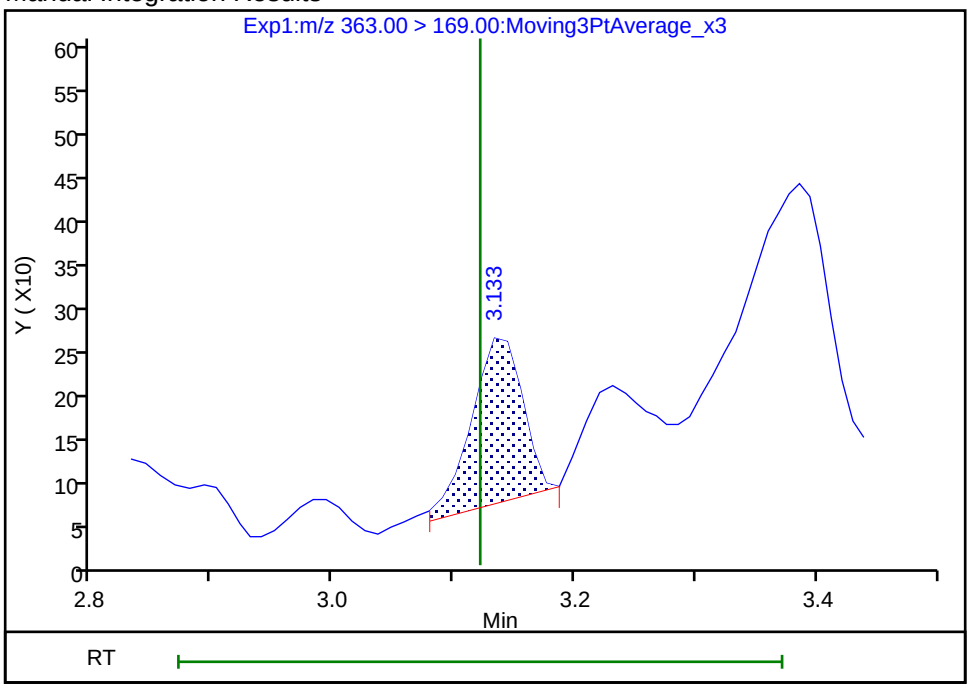
Not Detected
Expected RT: 3.12

Processing Integration Results



Manual Integration Results

RT: 3.13
Area: 563
Amount: 0.002951
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 13:58:25
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

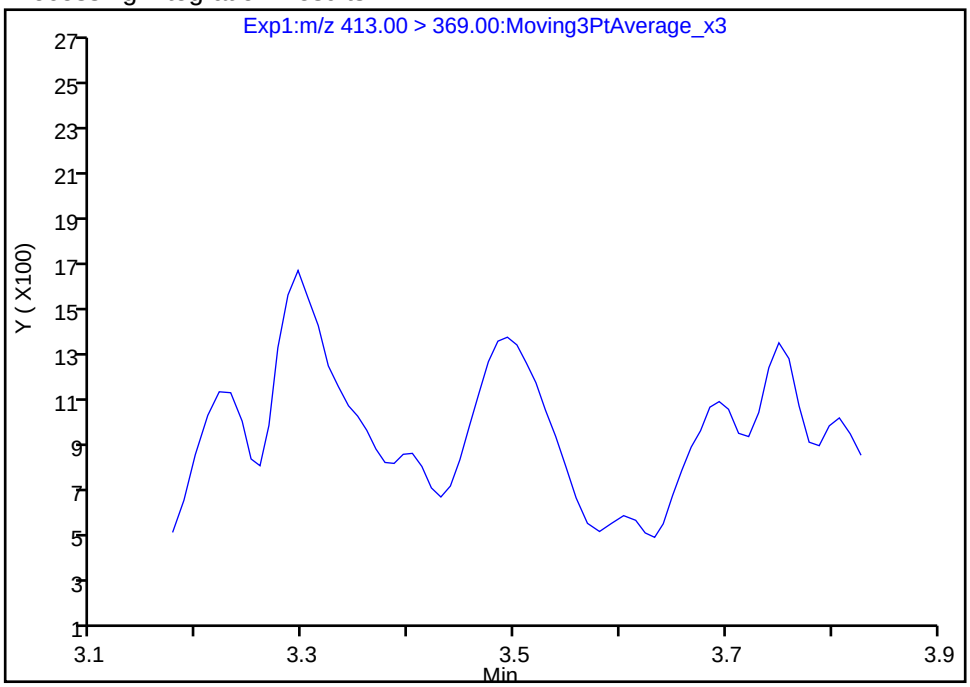
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B09.d				
Injection Date:	19-Feb-2021 16:55:01	Instrument ID:	LC812		
Lims ID:	480-181249-G-5-A	Lab Sample ID:	200-181249-5		
Client ID:	EB-20210210				
Operator ID:	lc812tech	ALS Bottle#:	24	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

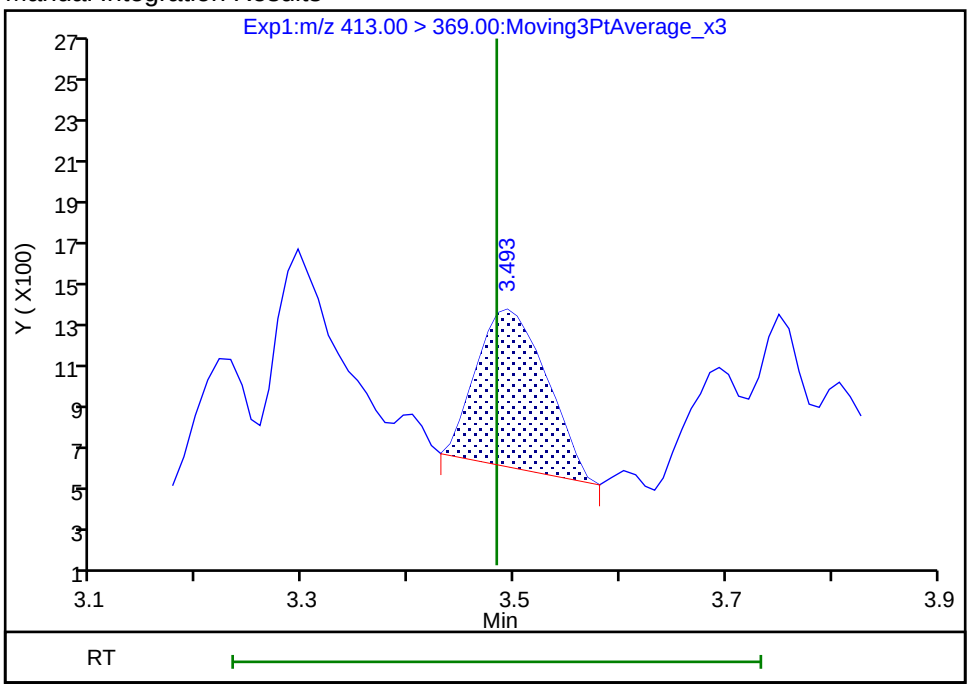
Not Detected
Expected RT: 3.48

Processing Integration Results



Manual Integration Results

RT: 3.49
Area: 3458
Amount: 0.003970
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 13:58:42
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

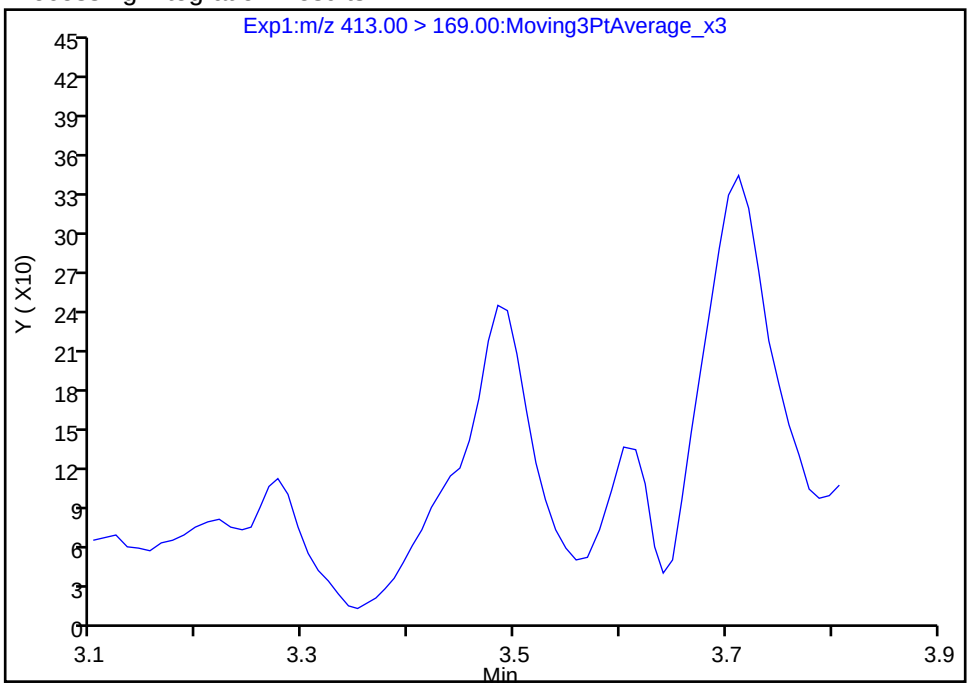
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B09.d				
Injection Date:	19-Feb-2021 16:55:01	Instrument ID:	LC812		
Lims ID:	480-181249-G-5-A	Lab Sample ID:	200-181249-5		
Client ID:	EB-20210210				
Operator ID:	lc812tech	ALS Bottle#:	24	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

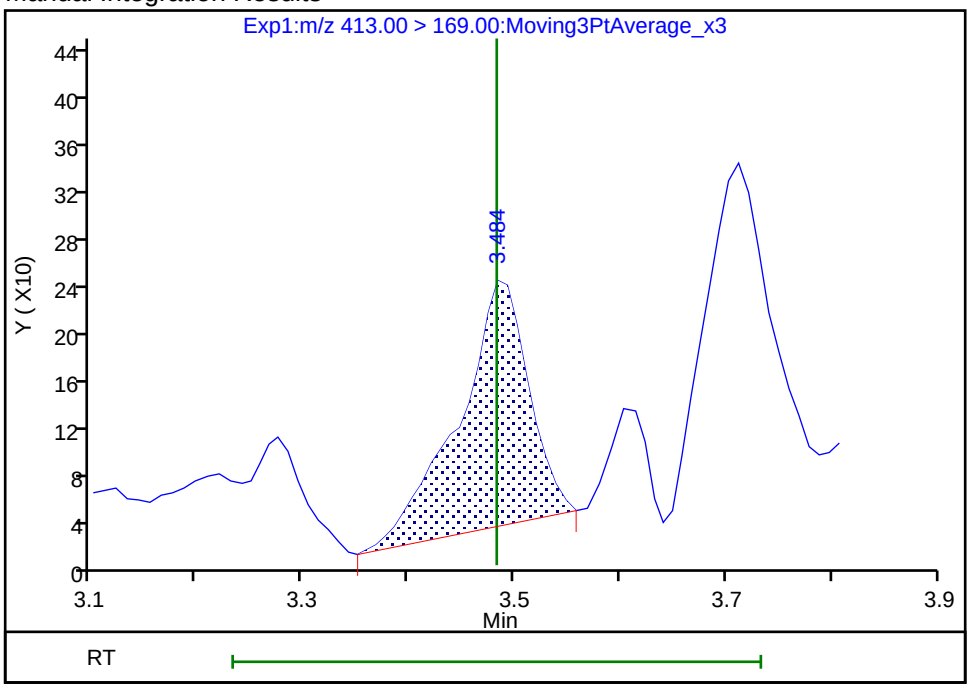
Not Detected
Expected RT: 3.48

Processing Integration Results



Manual Integration Results

RT: 3.48
Area: 951
Amount: 0.003970
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 13:58:47
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

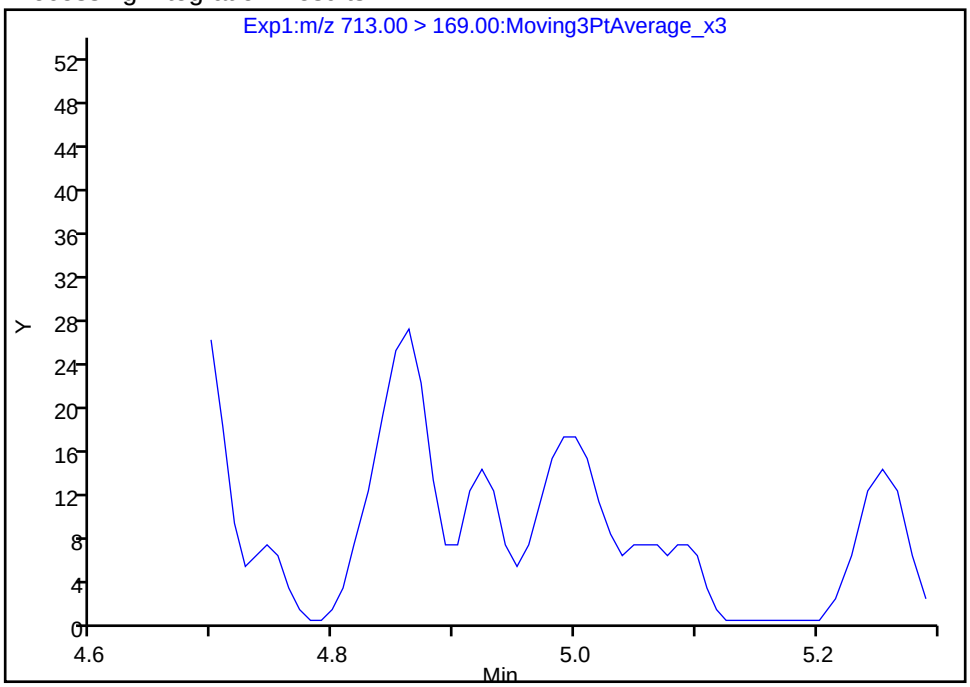
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B09.d				
Injection Date:	19-Feb-2021 16:55:01	Instrument ID:	LC812		
Lims ID:	480-181249-G-5-A	Lab Sample ID:	200-181249-5		
Client ID:	EB-20210210				
Operator ID:	lc812tech	ALS Bottle#:	24	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

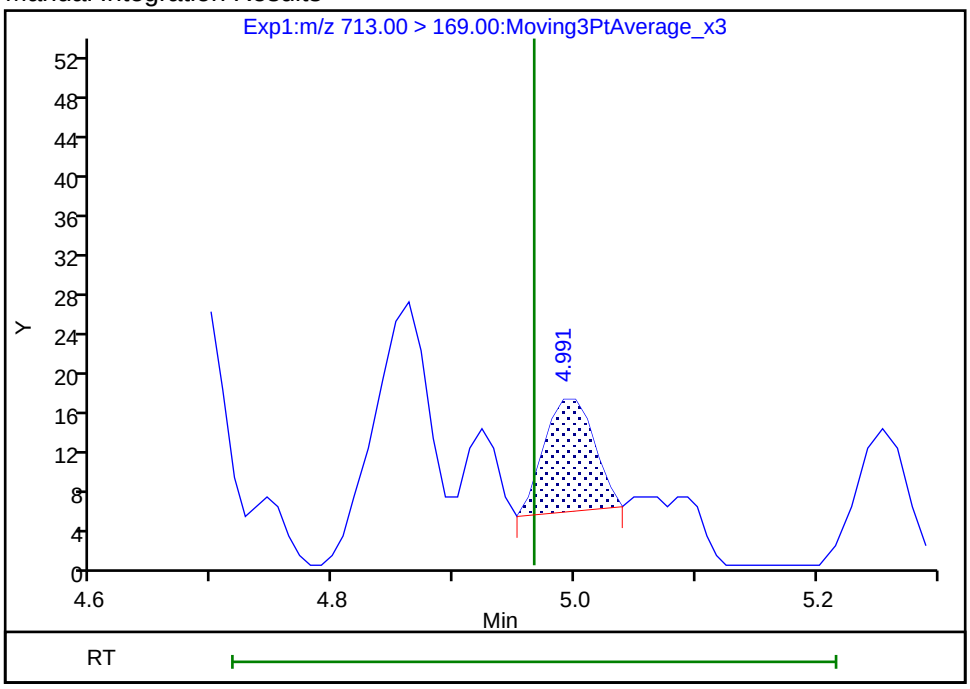
Not Detected
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.99
Area: 33
Amount: 0.000614
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 14:01:02
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

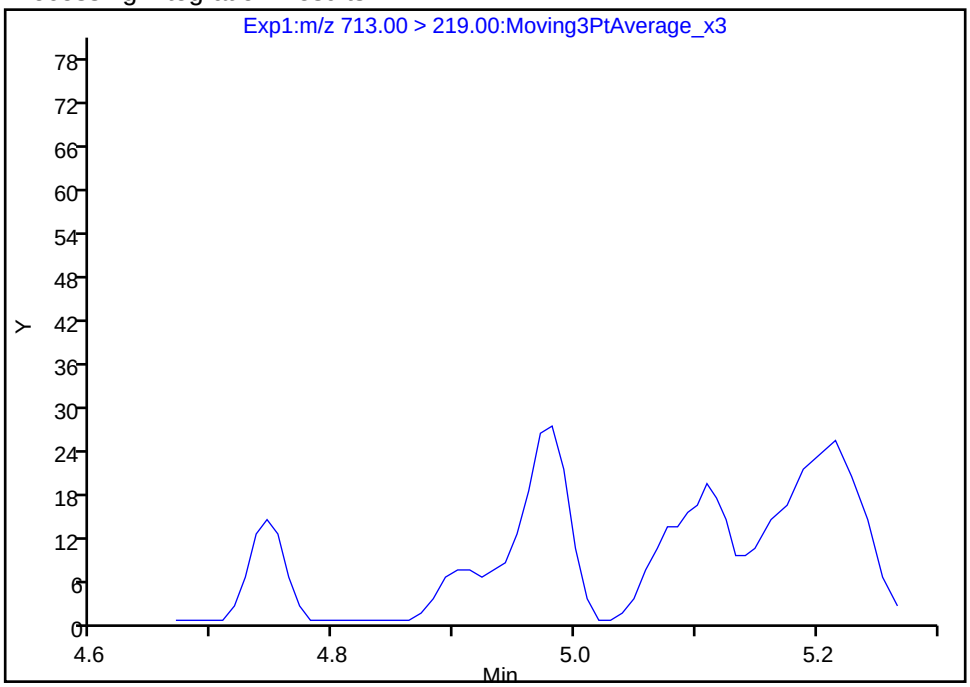
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B09.d				
Injection Date:	19-Feb-2021 16:55:01	Instrument ID:	LC812		
Lims ID:	480-181249-G-5-A	Lab Sample ID:	200-181249-5		
Client ID:	EB-20210210				
Operator ID:	lc812tech	ALS Bottle#:	24	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

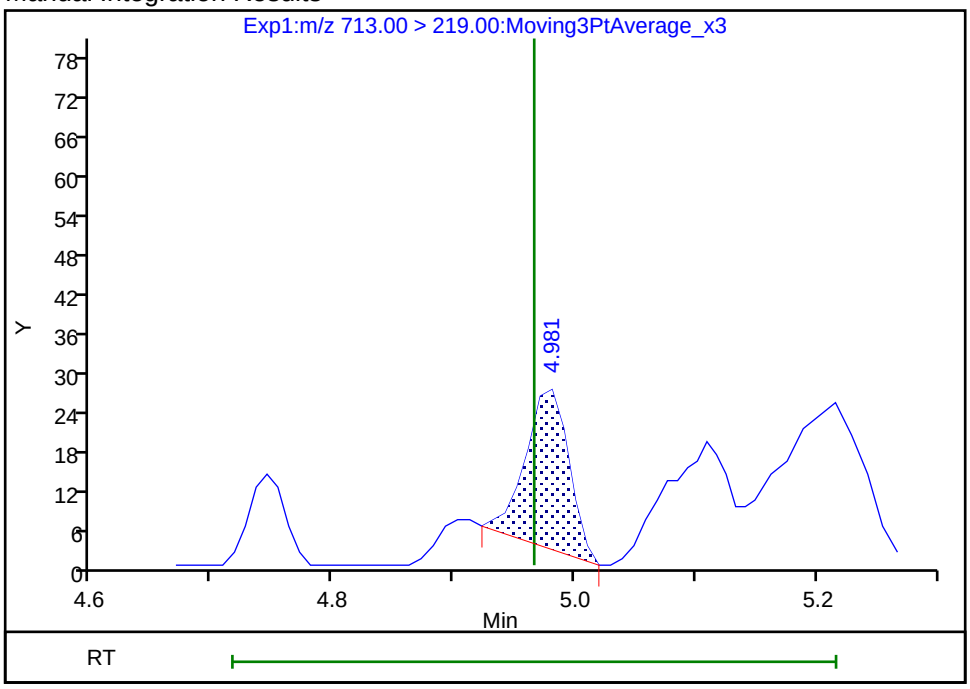
Processing Integration Results

Not Detected
Expected RT: 4.97



Manual Integration Results

RT: 4.98
Area: 61
Amount: 0.000614
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 14:01:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

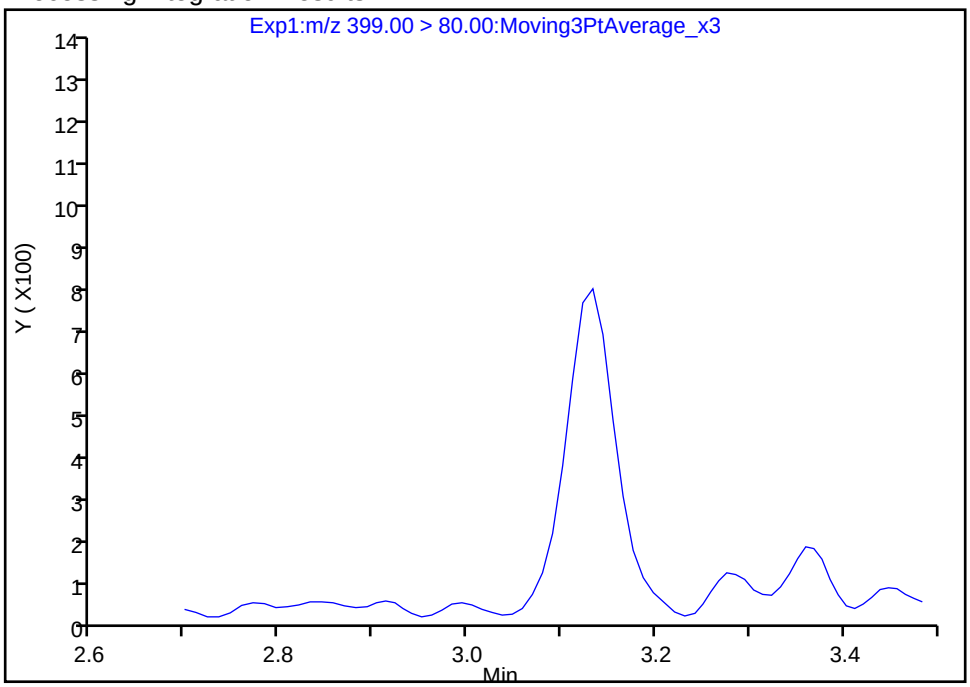
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B09.d				
Injection Date:	19-Feb-2021 16:55:01	Instrument ID:	LC812		
Lims ID:	480-181249-G-5-A	Lab Sample ID:	200-181249-5		
Client ID:	EB-20210210				
Operator ID:	lc812tech	ALS Bottle#:	24	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

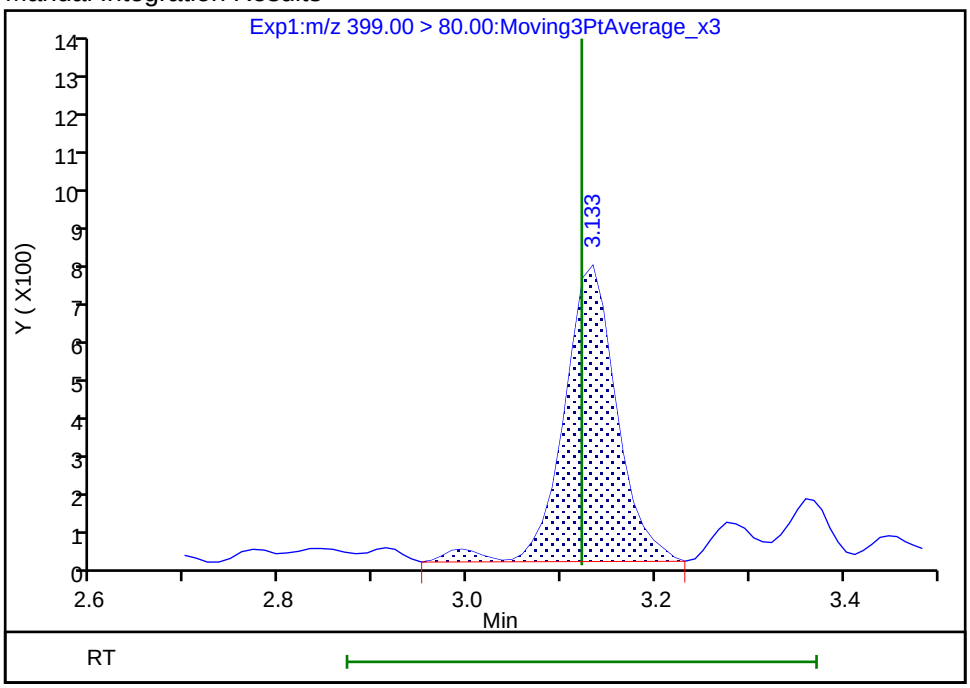
Not Detected
Expected RT: 3.12

Processing Integration Results



Manual Integration Results

RT: 3.13
Area: 2912
Amount: 0.003268
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 13:57:59
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

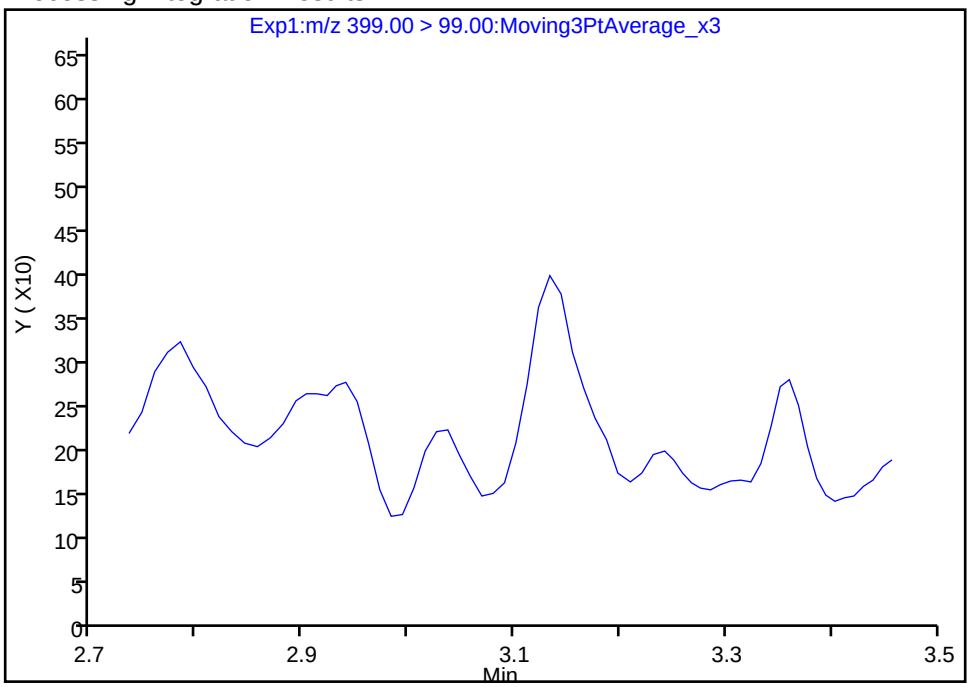
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B09.d				
Injection Date:	19-Feb-2021 16:55:01	Instrument ID:	LC812		
Lims ID:	480-181249-G-5-A	Lab Sample ID:	200-181249-5		
Client ID:	EB-20210210				
Operator ID:	lc812tech	ALS Bottle#:	24	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

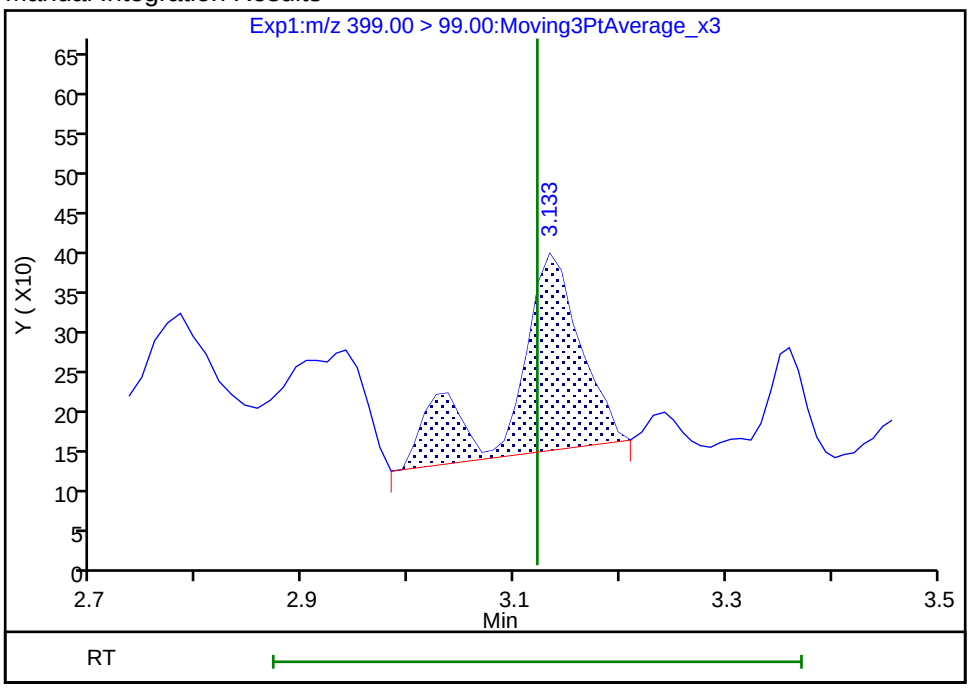
Not Detected
Expected RT: 3.12

Processing Integration Results



Manual Integration Results

RT: 3.13
Area: 1087
Amount: 0.003268
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 13:58:06
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

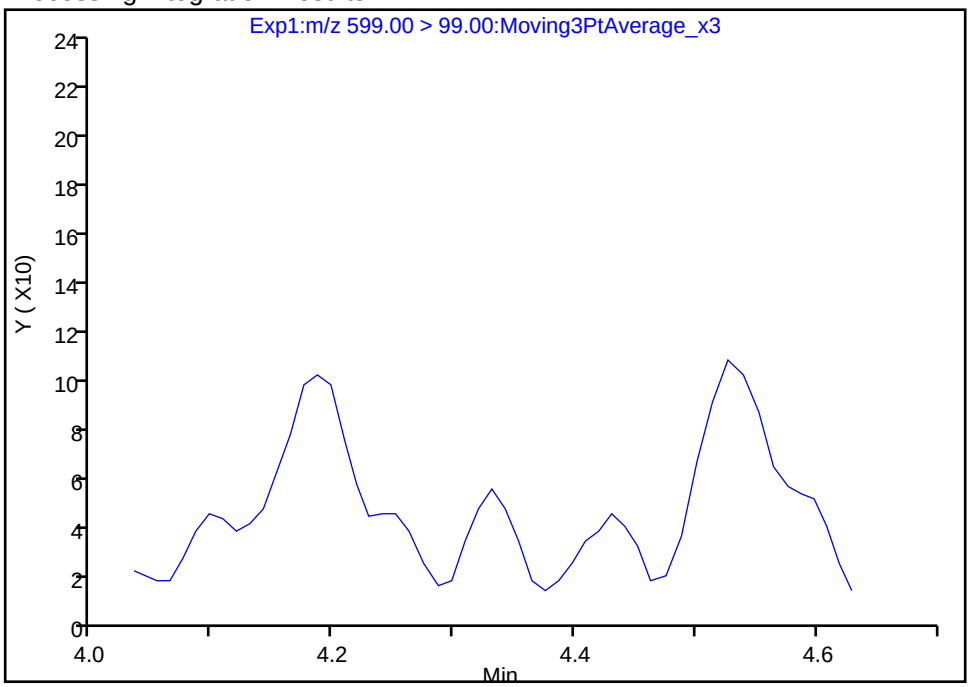
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B09.d				
Injection Date:	19-Feb-2021 16:55:01	Instrument ID:	LC812		
Lims ID:	480-181249-G-5-A	Lab Sample ID:	200-181249-5		
Client ID:	EB-20210210				
Operator ID:	lc812tech	ALS Bottle#:	24	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

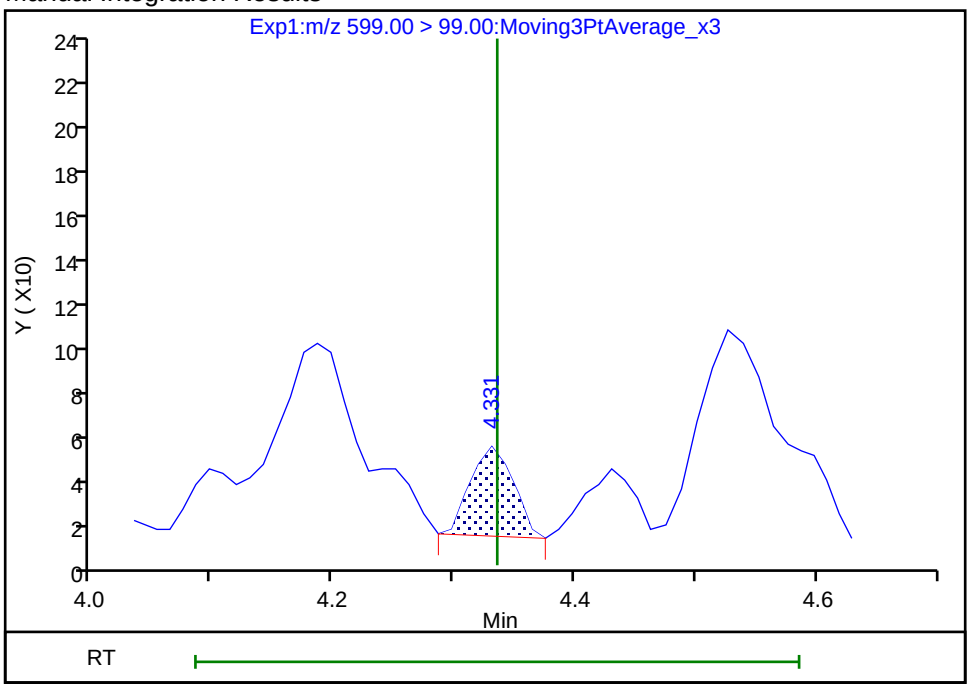
Not Detected
Expected RT: 4.34

Processing Integration Results



Manual Integration Results

RT: 4.33
Area: 98
Amount: 0.000265
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 14:00:43
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

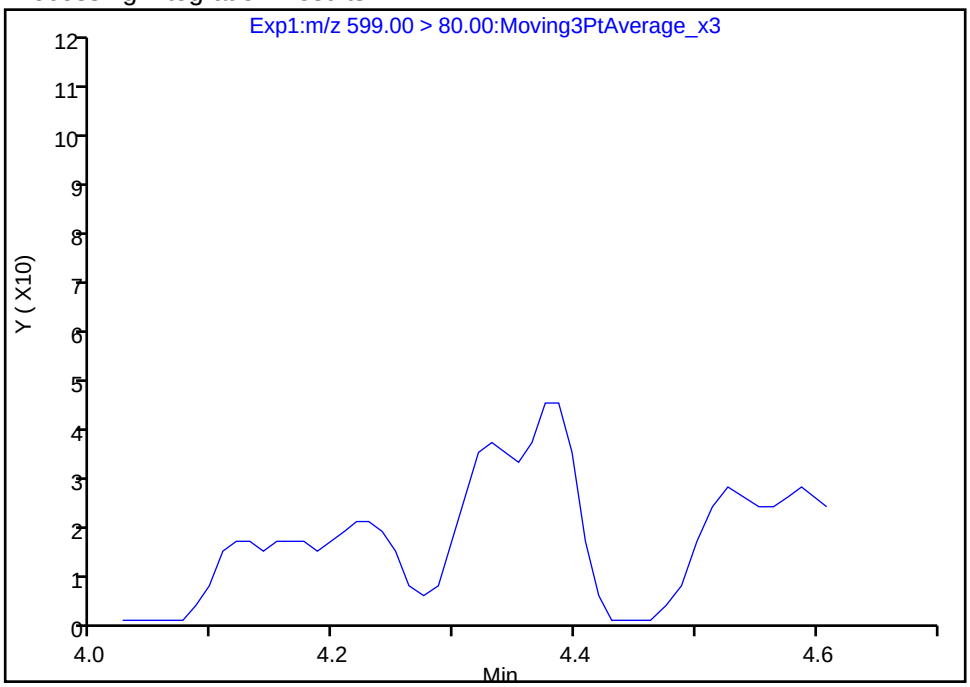
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B09.d				
Injection Date:	19-Feb-2021 16:55:01	Instrument ID:	LC812		
Lims ID:	480-181249-G-5-A	Lab Sample ID:	200-181249-5		
Client ID:	EB-20210210				
Operator ID:	lc812tech	ALS Bottle#:	24	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

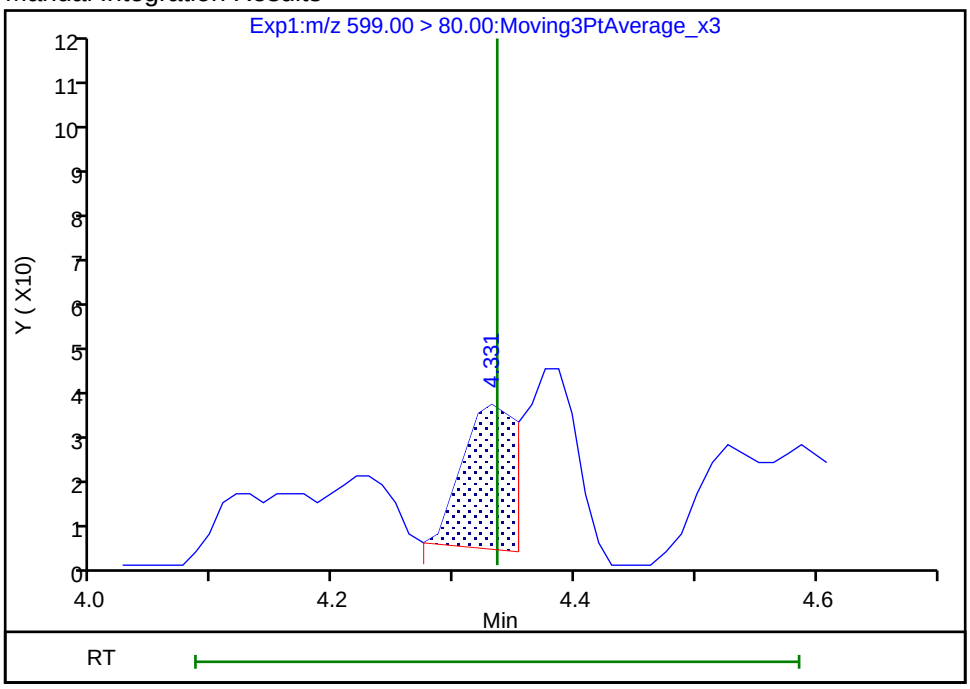
Not Detected
Expected RT: 4.34

Processing Integration Results



Manual Integration Results

RT: 4.33
Area: 94
Amount: 0.000265
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 14:00:45
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

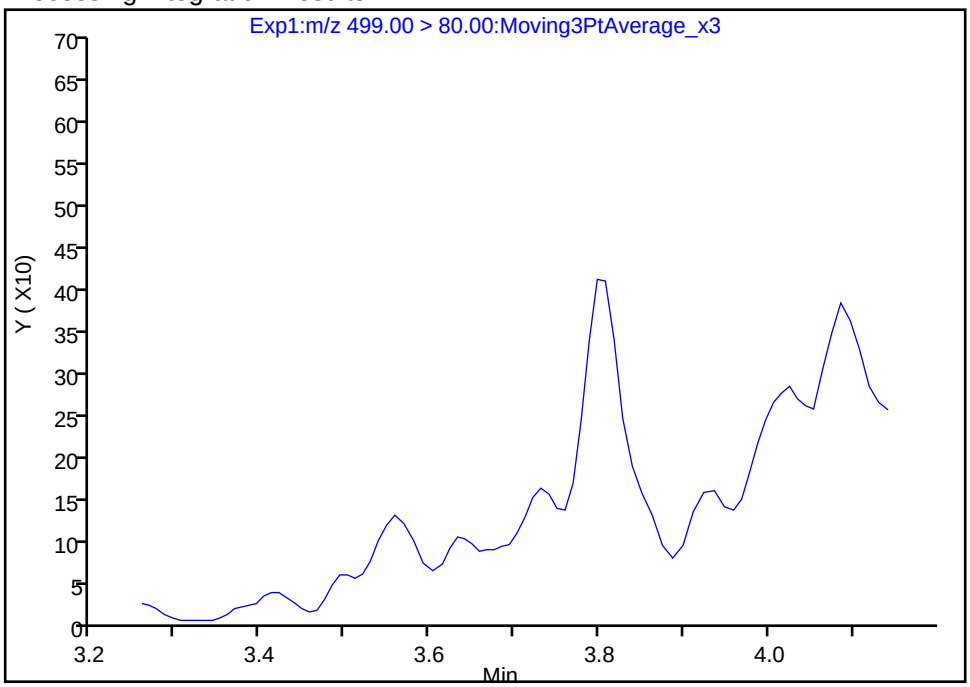
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B09.d				
Injection Date:	19-Feb-2021 16:55:01	Instrument ID:	LC812		
Lims ID:	480-181249-G-5-A	Lab Sample ID:	200-181249-5		
Client ID:	EB-20210210				
Operator ID:	lc812tech	ALS Bottle#:	24	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

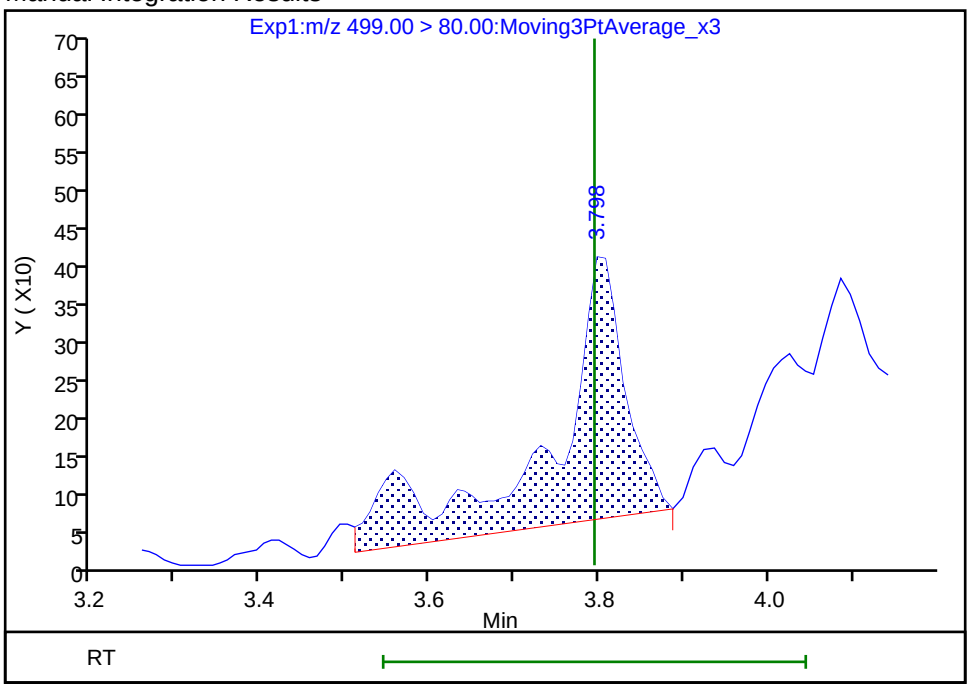
Not Detected
Expected RT: 3.79

Processing Integration Results



Manual Integration Results

RT: 3.80
Area: 2147
Amount: 0.003595
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 13:59:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

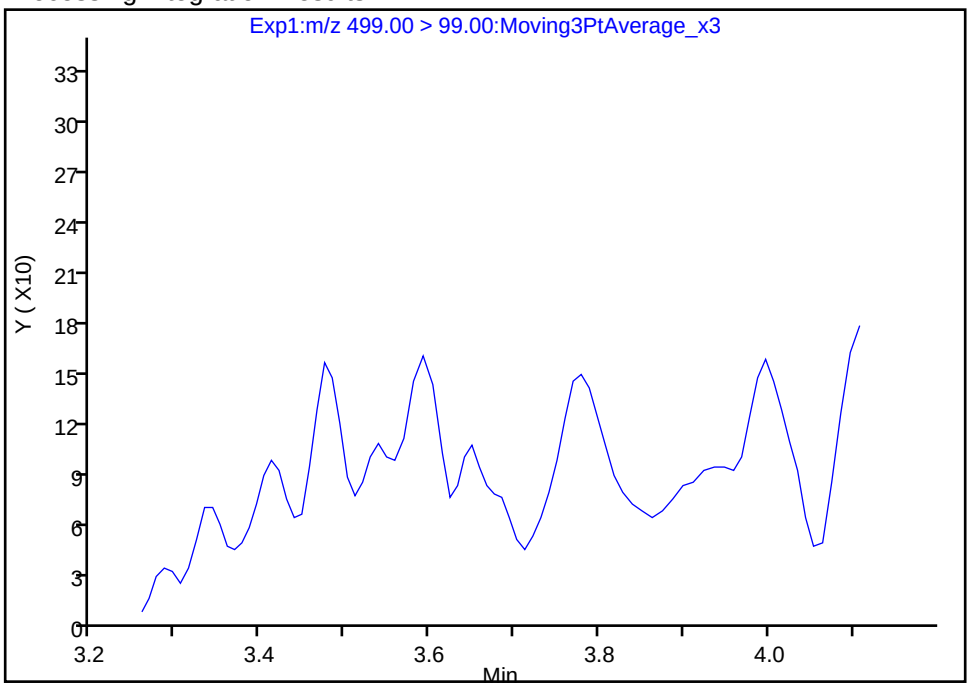
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B09.d				
Injection Date:	19-Feb-2021 16:55:01	Instrument ID:	LC812		
Lims ID:	480-181249-G-5-A	Lab Sample ID:	200-181249-5		
Client ID:	EB-20210210				
Operator ID:	lc812tech	ALS Bottle#:	24	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

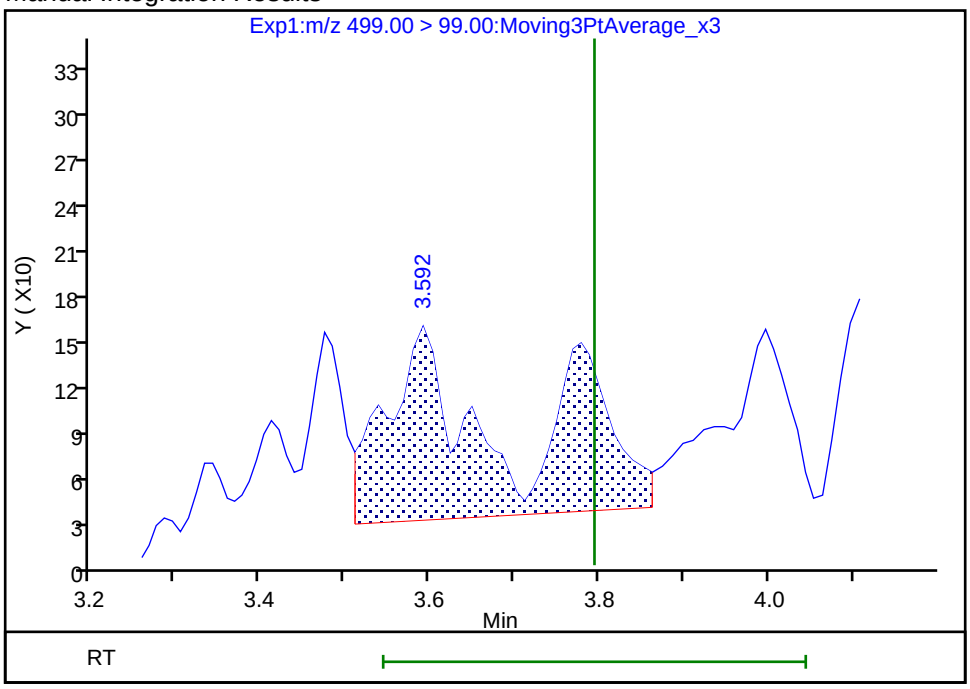
Not Detected
Expected RT: 3.79

Processing Integration Results



Manual Integration Results

RT: 3.59
Area: 1300
Amount: 0.003595
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 13:59:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

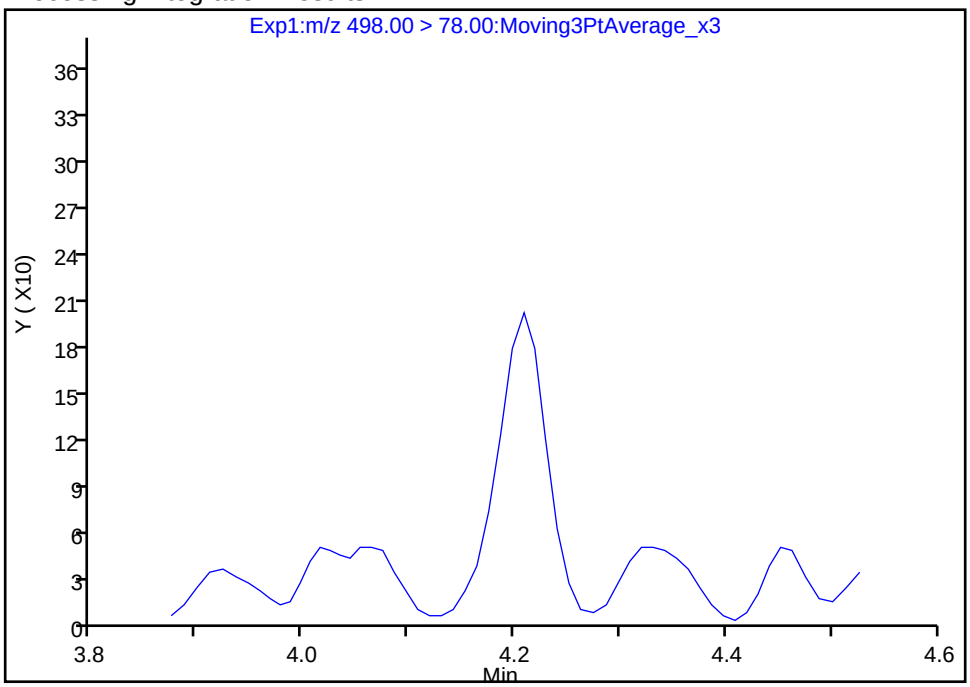
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B09.d				
Injection Date:	19-Feb-2021 16:55:01	Instrument ID:	LC812		
Lims ID:	480-181249-G-5-A	Lab Sample ID:	200-181249-5		
Client ID:	EB-20210210				
Operator ID:	lc812tech	ALS Bottle#:	24	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

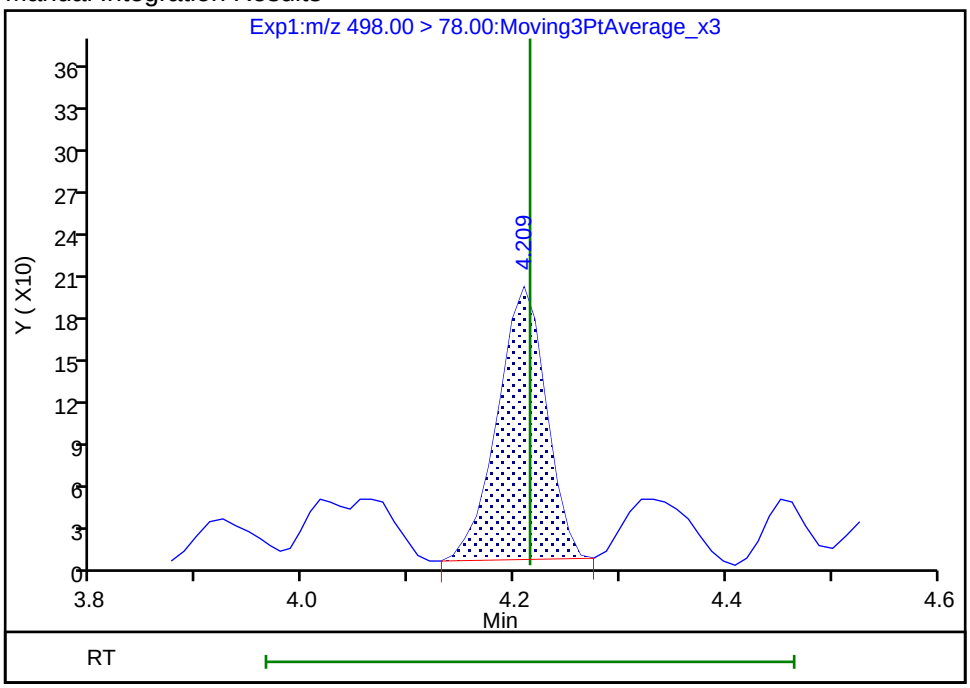
Not Detected
Expected RT: 4.21

Processing Integration Results



Manual Integration Results

RT: 4.21
Area: 620
Amount: 0.000939
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 14:00:27
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

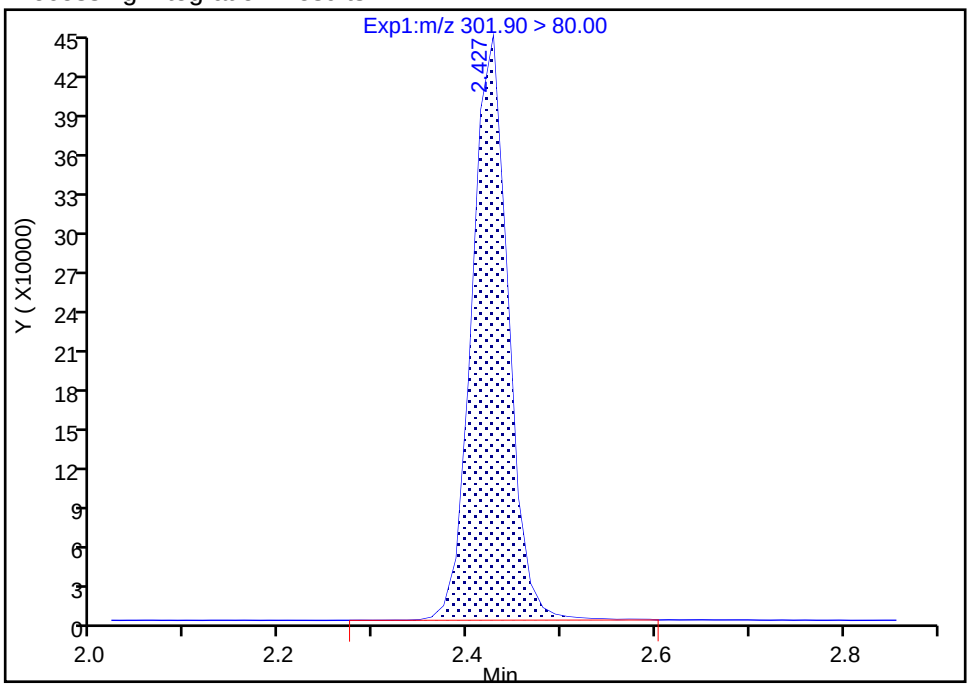
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B09.d				
Injection Date:	19-Feb-2021 16:55:01	Instrument ID:	LC812		
Lims ID:	480-181249-G-5-A	Lab Sample ID:	200-181249-5		
Client ID:	EB-20210210				
Operator ID:	lc812tech	ALS Bottle#:	24	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

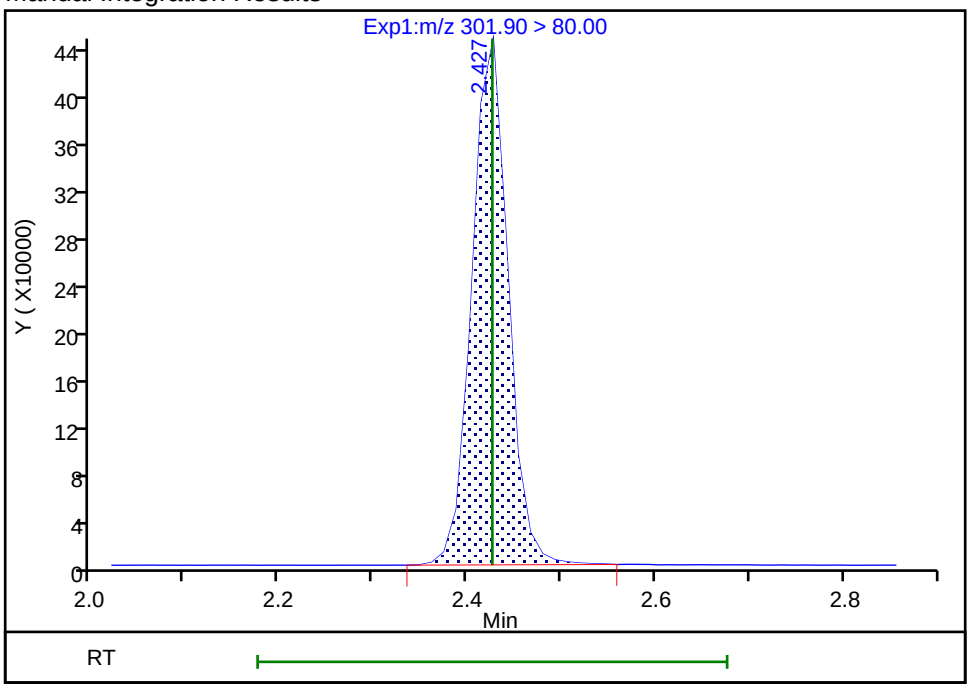
Processing Integration Results

RT: 2.43
Area: 1193518
Amount: 1.198114
Amount Units: ng/ml



Manual Integration Results

RT: 2.43
Area: 1189698
Amount: 1.194280
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 13:55:42

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

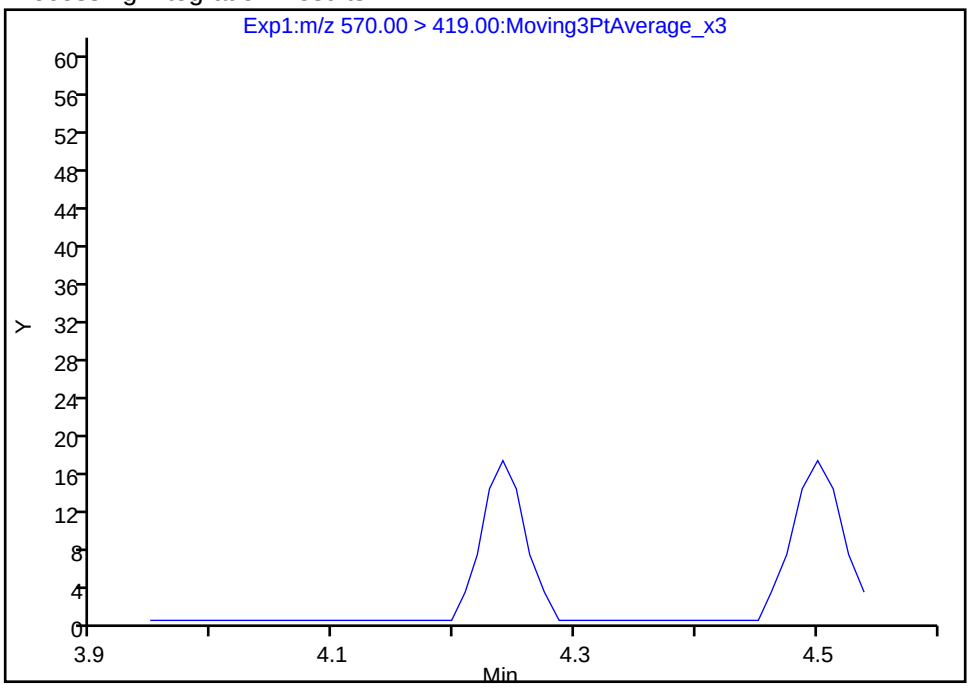
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B09.d				
Injection Date:	19-Feb-2021 16:55:01	Instrument ID:	LC812		
Lims ID:	480-181249-G-5-A	Lab Sample ID:	200-181249-5		
Client ID:	EB-20210210				
Operator ID:	lc812tech	ALS Bottle#:	24	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

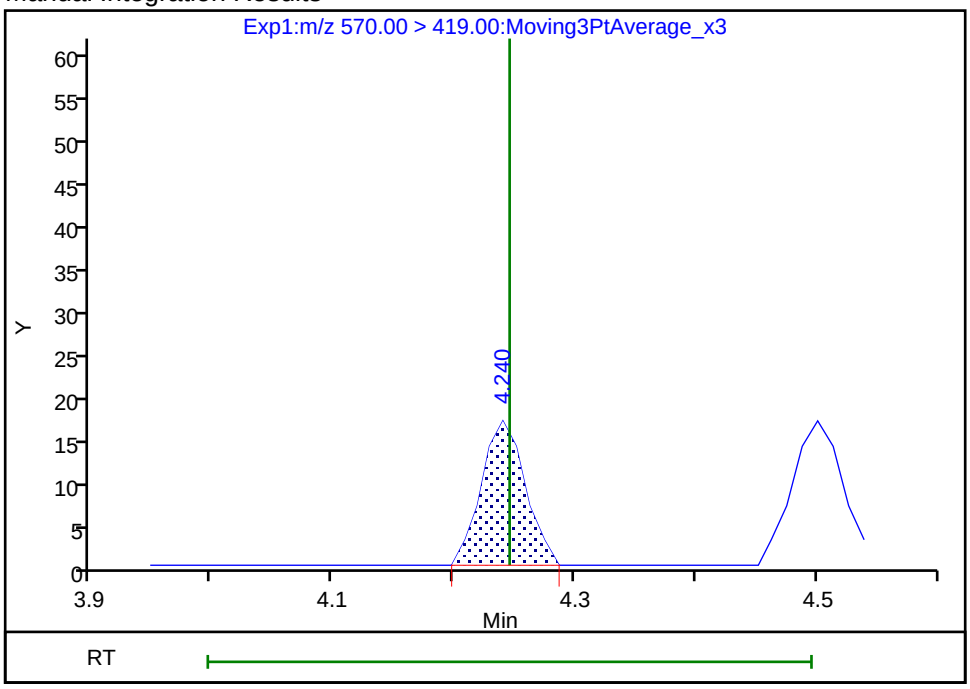
Not Detected
Expected RT: 4.25

Processing Integration Results



Manual Integration Results

RT: 4.24
Area: 42
Amount: 0.001245
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 14:00:32
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

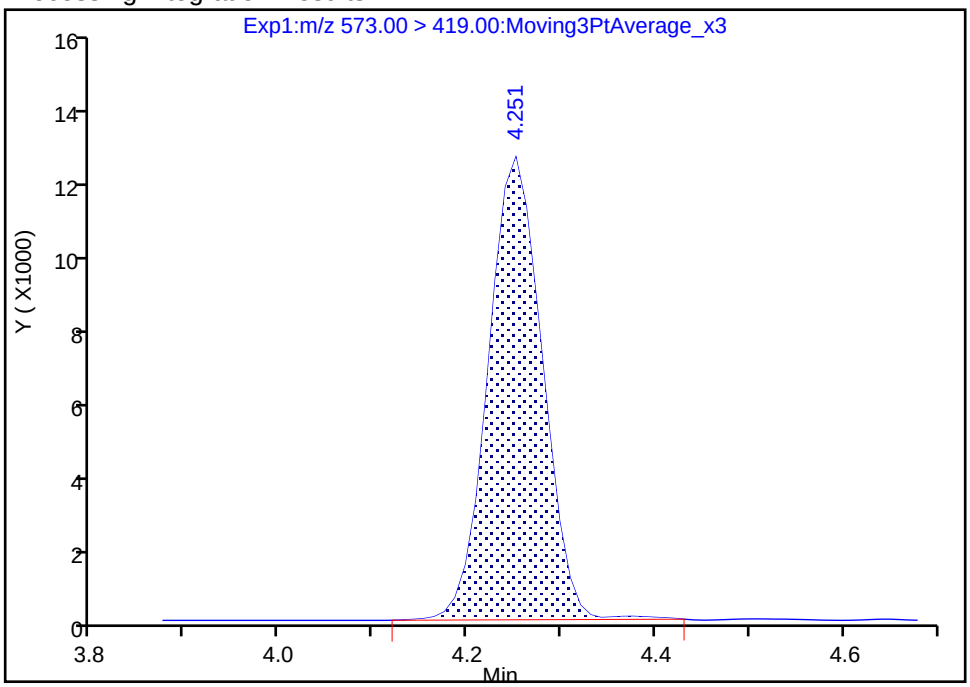
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B09.d				
Injection Date:	19-Feb-2021 16:55:01	Instrument ID:	LC812		
Lims ID:	480-181249-G-5-A	Lab Sample ID:	200-181249-5		
Client ID:	EB-20210210				
Operator ID:	lc812tech	ALS Bottle#:	24	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

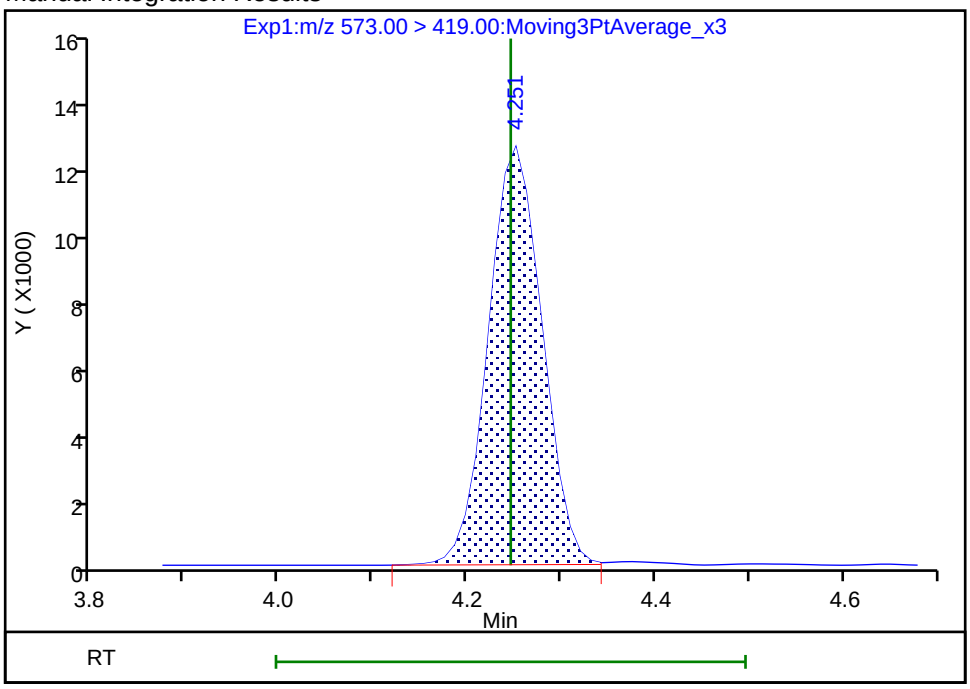
Processing Integration Results

RT: 4.25
Area: 47834
Amount: 1.013527
Amount Units: ng/ml



Manual Integration Results

RT: 4.25
Area: 47560
Amount: 1.007722
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 13:55:56

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B09.d				
Injection Date:	19-Feb-2021 16:55:01	Instrument ID:	LC812		
Lims ID:	480-181249-G-5-A	Lab Sample ID:	200-181249-5		
Client ID:	EB-20210210				
Operator ID:	lc812tech	ALS Bottle#:	24	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

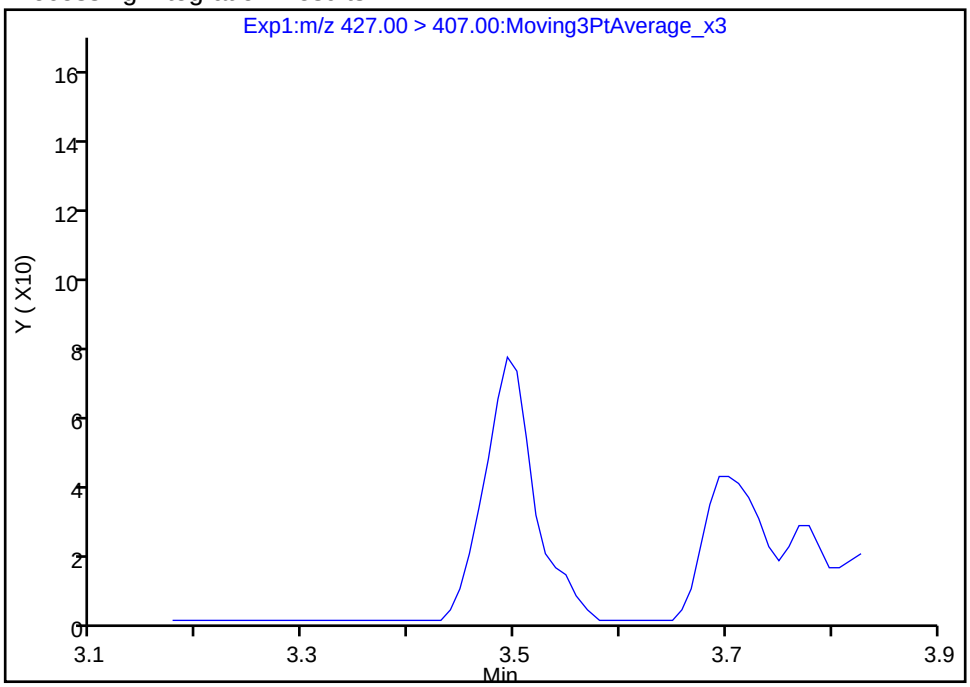
13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

Processing Integration Results

Not Detected

Expected RT: 3.47



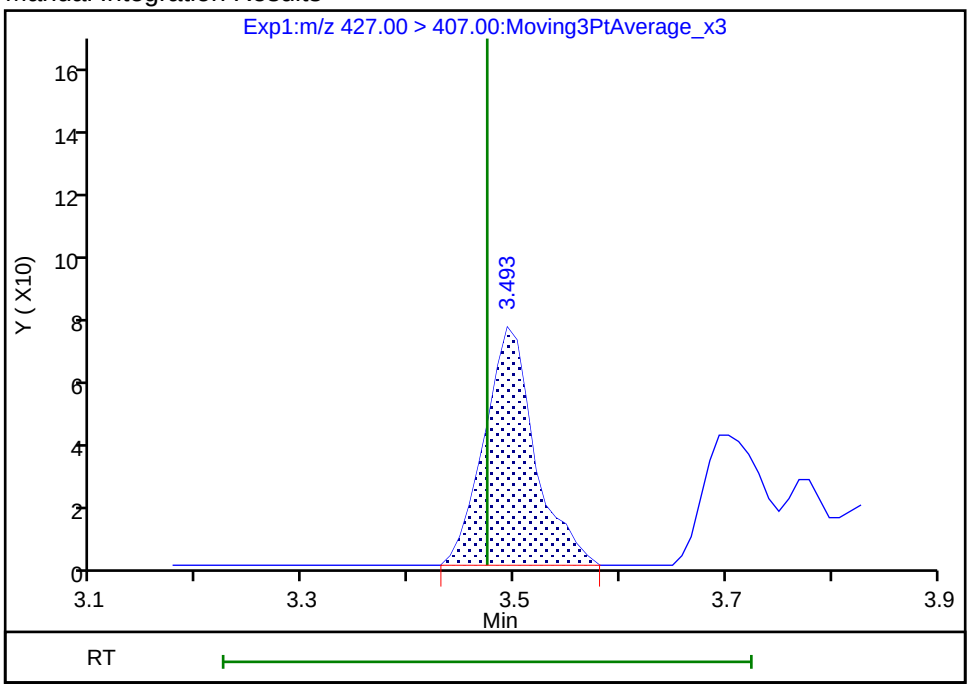
Manual Integration Results

RT: 3.49

Area: 249

Amount: 0.002316

Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 13:58:34

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

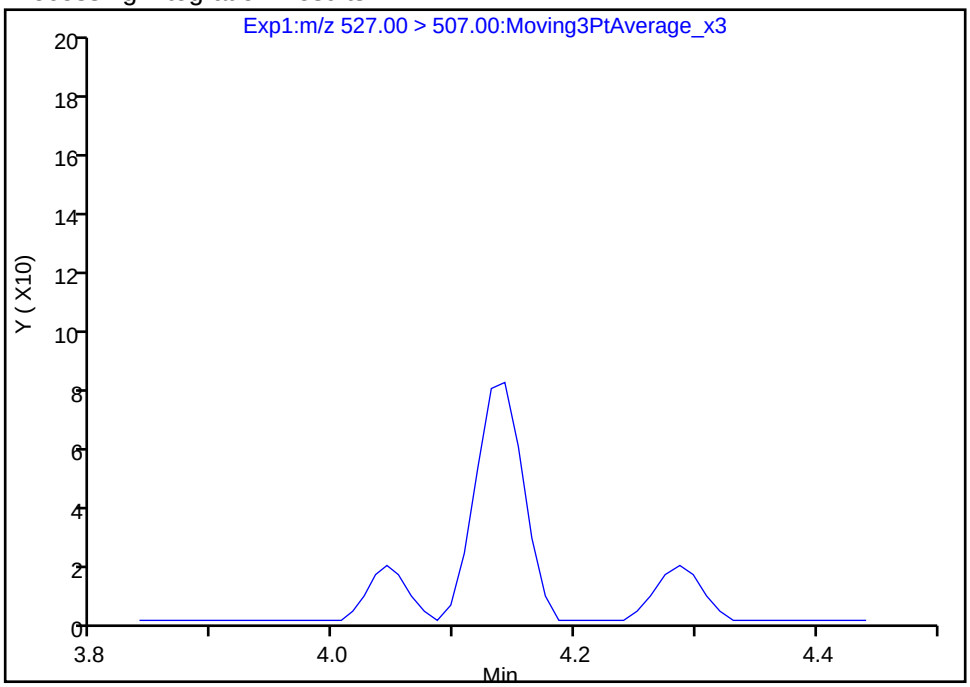
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B09.d				
Injection Date:	19-Feb-2021 16:55:01	Instrument ID:	LC812		
Lims ID:	480-181249-G-5-A	Lab Sample ID:	200-181249-5		
Client ID:	EB-20210210				
Operator ID:	lc812tech	ALS Bottle#:	24	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

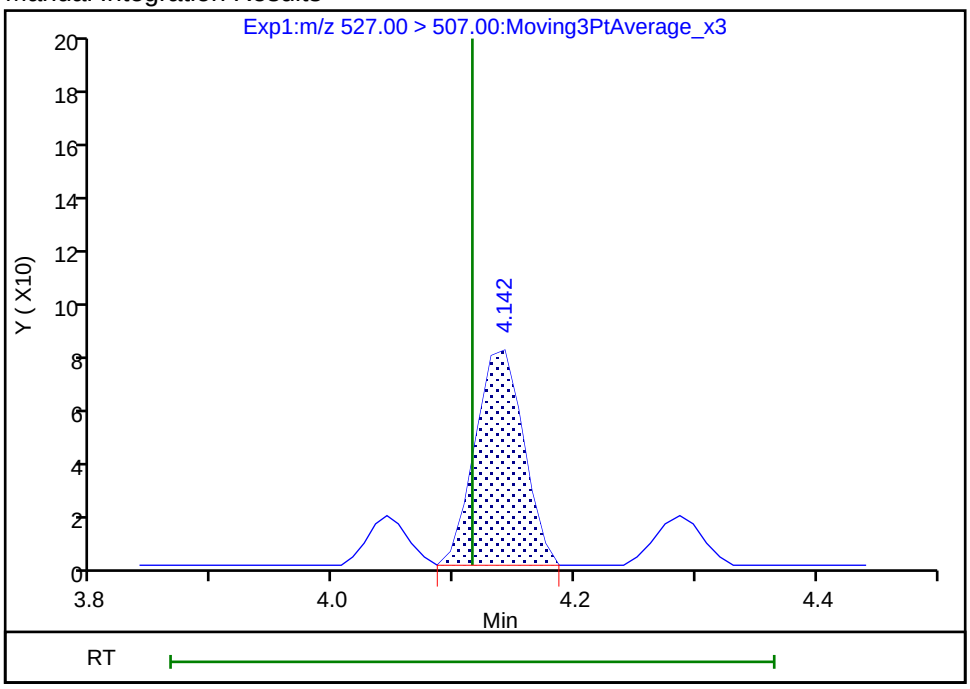
Not Detected
Expected RT: 4.12

Processing Integration Results



Manual Integration Results

RT: 4.14
Area: 216
Amount: 0.003209
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 14:00:22
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Client Sample ID: DUP-SB (13-15) Lab Sample ID: 480-181249-6

Matrix: Solid Lab File ID: PA210226A15.d

Analysis Method: 537 (modified) Date Collected: 02/12/2021 14:16

Extraction Method: SHAKE Date Extracted: 02/25/2021 15:08

Sample wt/vol: 5.32(g) Date Analyzed: 02/26/2021 14:42

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 19.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 164334 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.36	J B	0.58	0.22
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.030	J	0.23	0.021
307-24-4	Perfluorohexanoic acid (PFHxA)	0.23	U	0.23	0.028
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.23	U	0.23	0.027
335-67-1	Perfluorooctanoic acid (PFOA)	0.027	J	0.23	0.016
375-95-1	Perfluorononanoic acid (PFNA)	0.23	U	0.23	0.023
335-76-2	Perfluorodecanoic acid (PFDA)	0.23	U	0.23	0.024
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.23	U	0.23	0.028
307-55-1	Perfluorododecanoic acid (PFDoA)	0.23	U	0.23	0.017
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.23	U	0.23	0.015
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.23	U	0.23	0.022
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.23	U	0.23	0.010
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.23	U	0.23	0.017
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.23	U	0.23	0.017
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.23	U	0.23	0.078
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.23	U	0.23	0.022
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.23	U	0.23	0.010
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.33	U	2.33	0.040
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.33	U	2.33	0.035
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	2.33	U	2.33	0.026
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	2.33	U	2.33	0.034

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Client Sample ID: DUP-SB (13-15) Lab Sample ID: 480-181249-6

Matrix: Solid Lab File ID: PA210226A15.d

Analysis Method: 537 (modified) Date Collected: 02/12/2021 14:16

Extraction Method: SHAKE Date Extracted: 02/25/2021 15:08

Sample wt/vol: 5.32(g) Date Analyzed: 02/26/2021 14:42

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 19.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 164334 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	98		50-150
STL01892	13C4 PFHpA	99		50-150
STL00990	13C4 PFOA	97		50-150
STL00991	13C4 PFOS	100		50-150
STL00995	13C5 PFNA	93		50-150
STL00992	13C4 PFBA	36		25-150
STL00993	13C2 PFHxA	104		50-150
STL00996	13C2 PFDA	91		50-150
STL00997	13C2 PFUnA	88		50-150
STL00998	13C2 PFDoA	88		50-150
STL01056	13C8 FOSA	104		25-150
STL01893	13C5 PFPeA	96		25-150
STL02116	13C2 PFTeDA	75		50-150
STL02118	d3-NMeFOSAA	94		50-150
STL02117	d5-NEtFOSAA	86		50-150
STL02279	M2-6:2 FTS	100		25-150
STL02280	M2-8:2 FTS	96		25-150
STL02337	13C3 PFBS	99		50-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A15.d
Lims ID: 480-181249-A-6-A
Client ID: DUP-SB (13-15)
Sample Type: Client
Inject. Date: 26-Feb-2021 14:42:25 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 480-181249-A-6-A
Misc. Info.: 200-0044972-015 Plate: 1 Rack: 2
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 01-Mar-2021 10:52:47 Calib Date: 22-Dec-2020 13:29:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1604

First Level Reviewer: khanphomeea Date: 01-Mar-2021 10:21:34
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.080	2.082	-0.002	0.596	427099	0.4526		36.2	4332	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.080	2.082	-0.002	1.000	52219	0.1525			15.9	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.398	2.401	-0.003	0.687	815376	1.20		95.6	2980	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.398	2.401	-0.003	1.000	9330	0.0129			0.5	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.424	2.427	-0.003	0.694	1028681	1.15		98.6	135496	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.424	2.427	-0.003	1.000	3765	0.003761	Target=2.21		5.9	
298.90 > 99.00	2.424	2.427	-0.003	1.000	1512		2.49(1.11-3.32)		1.1	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.756	2.759	-0.003	0.789	929120	1.30		104	3364	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.132	3.123	0.009	1.003	5071	0.006605	Target=4.15		17.2	M
399.00 > 99.00	3.132	3.123	0.009	1.003	1643		3.09(2.08-6.23)		1.4	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.122	3.123	-0.001	0.894	770365	1.15		97.5	2920	
D 9 13C4 PFHpA										
367.00 > 322.00	3.132	3.133	-0.001	0.897	849934	1.24		99.4	3759	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.132	3.133	-0.001	1.000	6360	0.008564	Target=3.66		1.7	M
363.00 > 169.00	3.132	3.133	-0.001	1.000	1171		5.43(1.83-5.49)		4.0	M
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.474	3.475	-0.001	0.913	1513	0.002437	Target=5.95		11.7	M
449.00 > 99.00	3.483	3.475	0.008	0.916	202		7.49(2.98-8.93)		1.2	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 12 M2-6:2 FTS										
429.00 > 81.00	3.474	3.475	-0.001	0.995	98609	1.18		99.6	442	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.465	3.475	-0.010	0.997	185	0.002003			3.9	M
D 14 13C4 PFOA										
417.00 > 372.00	3.483	3.484	-0.001	0.997	839467	1.21		96.6	3807	
* 62 13C2 PFOA										
415.00 > 370.00	3.492	3.484	0.008		878105	1.25			1097	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.492	3.493	-0.001	1.003	8382	0.0115	Target=2.58		1.6	M
413.00 > 169.00	3.483	3.493	-0.010	1.000	3120		2.69(1.29-3.87)		6.9	M
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.805	3.796	0.009	1.000	3026	0.005722	Target=5.65		4.3	RM
499.00 > 99.00	3.795	3.796	-0.001	0.997	1376		2.20(2.82-8.47)		3.0	M
D 18 13C4 PFOS										
503.00 > 80.00	3.805	3.796	0.009	1.089	549510	1.20		100	2133	
D 19 13C5 PFNA										
468.00 > 423.00	3.825	3.816	0.009	1.095	716394	1.17		93.5	2409	
20 Perfluorononanoic acid										RM
463.00 > 419.00	3.815	3.816	-0.001	0.997	4244	0.006690	Target=7.44		0.5	RM
463.00 > 169.00	3.805	3.816	-0.011	0.995	161		26.36(3.72-11.16)		3.4	M
D 23 13C2 PFDA										
515.00 > 470.00	4.116	4.118	-0.002	1.179	666875	1.14		91.0	4081	
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.127	4.118	0.009	1.003	2282	0.004151	Target=9.29		1.5	M
513.00 > 169.00	4.116	4.118	-0.002	1.000	174		13.11(4.64-13.93)		1.7	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.127	4.129	-0.002	1.182	98665	1.15		95.8	358	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.161	4.129	0.032	1.008	132	0.002356			4.8	M
D 21 13C8 FOSA										
506.00 > 78.00	4.215	4.207	0.008	1.207	1122259	1.30		104	3006	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.215	4.217	-0.002	1.000	1601	0.001779			10.2	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.258	4.260	-0.002	1.219	50007	1.18		94.1	849	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.269	4.260	0.009	1.003	86	0.002425			0.6	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.381	4.373	0.008	1.254	532734	1.11		88.5	2194	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.370	4.373	-0.003	0.997	1143	0.002630	Target=8.12		0.7	M
563.00 > 169.00	4.392	4.373	0.019	1.003	175		6.53(4.06-12.18)		3.6	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.392	4.384	0.008	1.258	44006	1.07		85.6	403	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.414	4.395	0.019	1.005	154	0.004726			3.3	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 36 13C2 PFDoA										
615.00 > 570.00	4.602	4.606	-0.004	1.318	556676	1.09		87.6	4977	
37 Perfluorododecanoic acid										RM
613.00 > 569.00	4.623	4.606	0.017	1.005	1816	0.003708	Target=6.91		0.8	R
613.00 > 169.00	4.623	4.606	0.017	1.005	65		27.94(3.45-10.36)		2.8	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.996	4.998	-0.002	1.430	354363	0.9424		75.4	1373	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	4.996	4.998	-0.002	1.000	119	0.002264	Target=1.06		3.9	M
713.00 > 219.00	4.976	4.998	-0.022	0.996	136		0.88(0.53-1.59)		4.0	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Report Date: 01-Mar-2021 10:53:22 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A15.d

Injection Date: 26-Feb-2021 14:42:25 Instrument ID: LC812

Lims ID: 480-181249-A-6-A Lab Sample ID: 200-181249-6

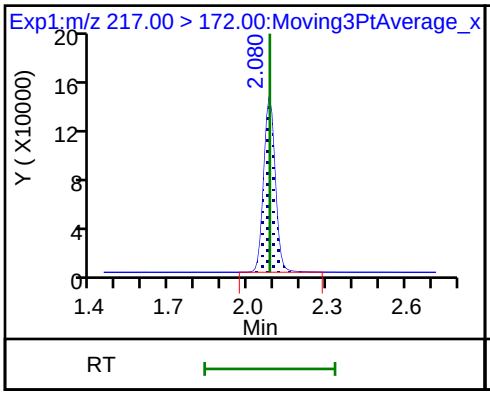
Client ID: DUP-SB (13-15)

Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15

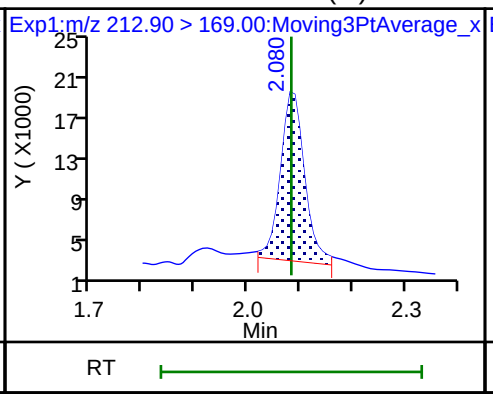
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

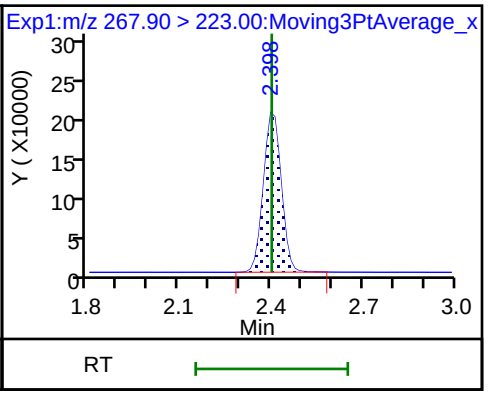
D 1 13C4 PFBA



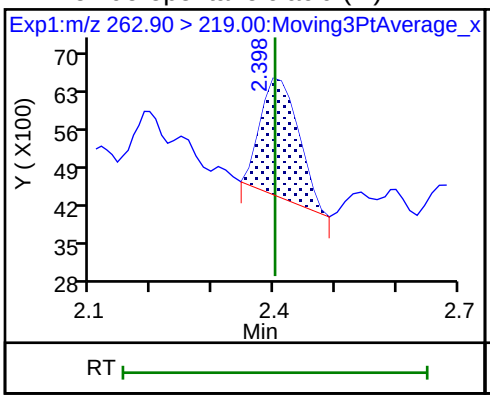
2 Perfluorobutanoic acid (M)



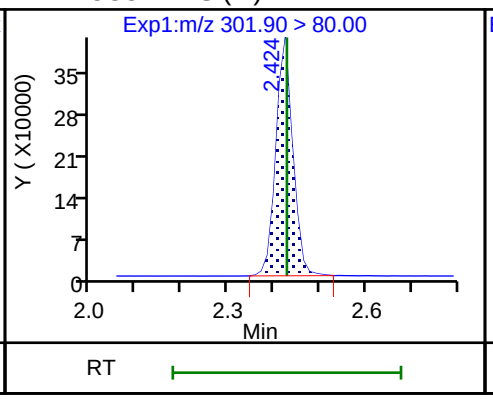
D 3 13C5 PFPeA



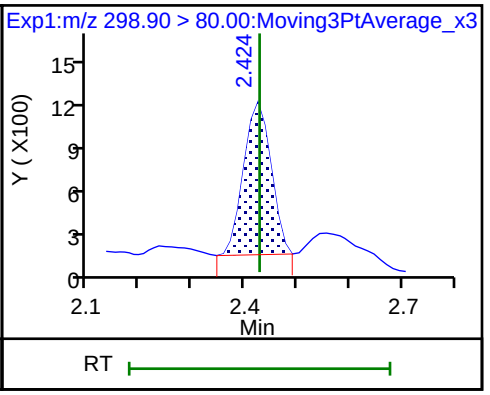
4 Perfluoropentanoic acid (M)



D 47 13C3 PFBS (M)



5 Perfluorobutanesulfonic acid



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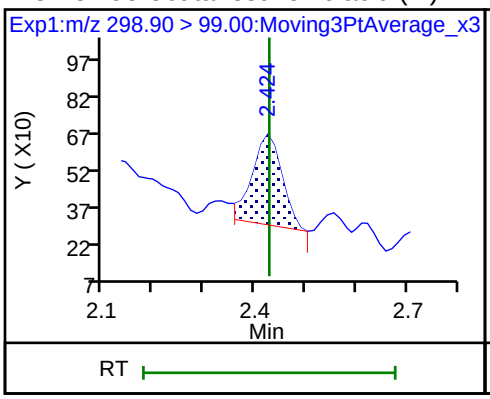
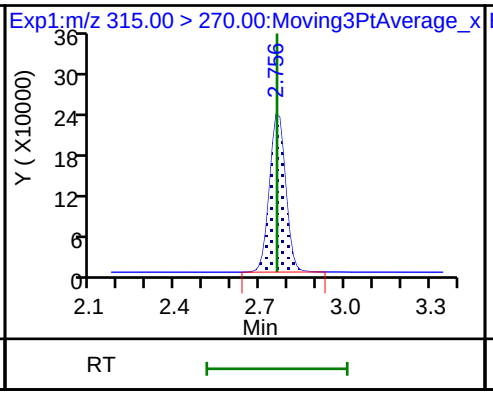


D 7 13C2 PFHxA



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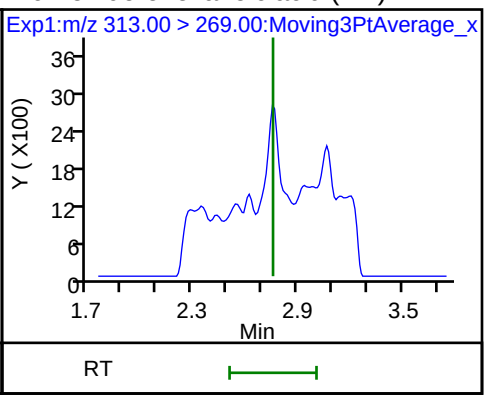
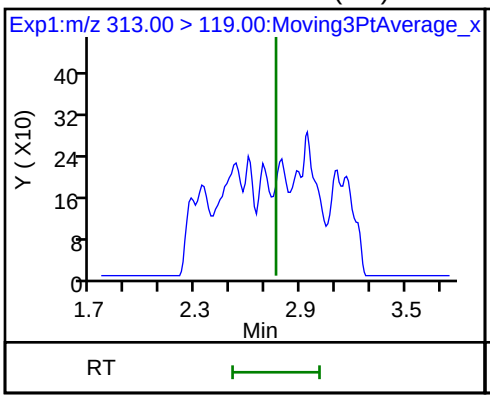
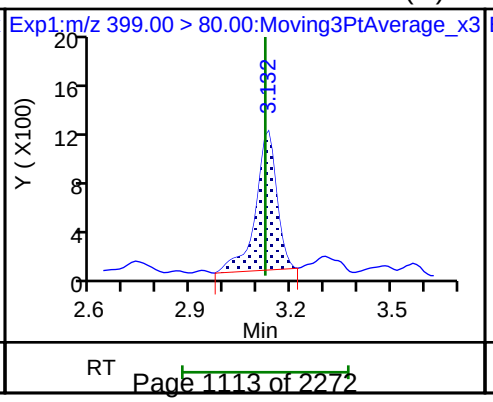


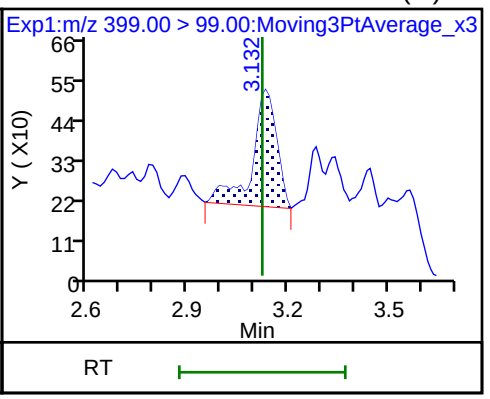
6 Perfluorohexanoic acid (ND)



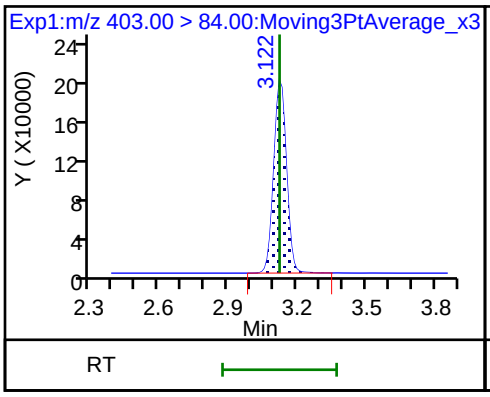
8 Perfluorohexanesulfonic acid (M)



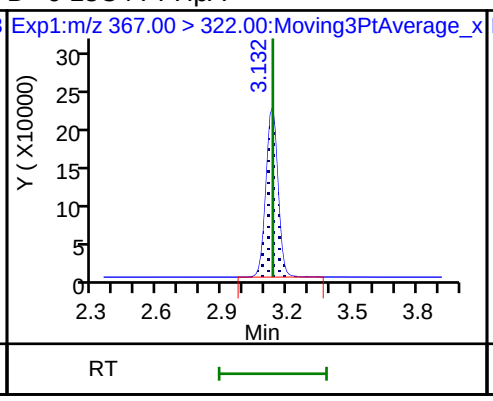
8 Perfluorohexanesulfonic acid (M)



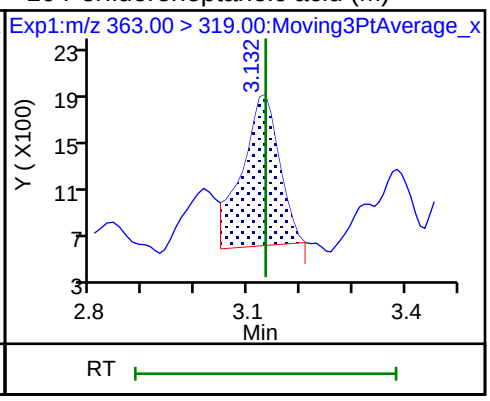
D 11 18O2 PFHxS



D 9 13C4 PFHpA



10 Perfluoroheptanoic acid (M)



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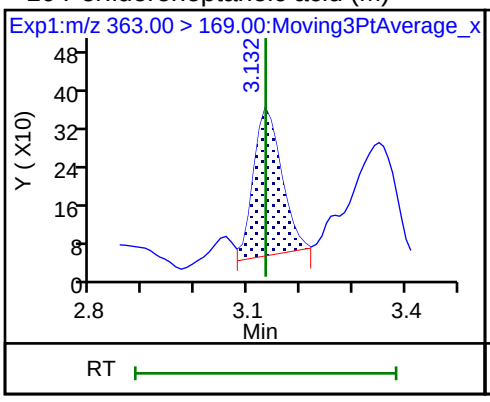
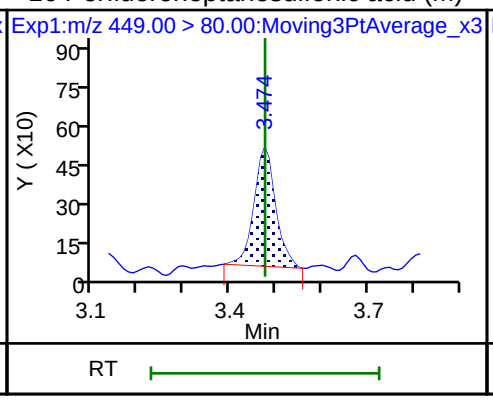
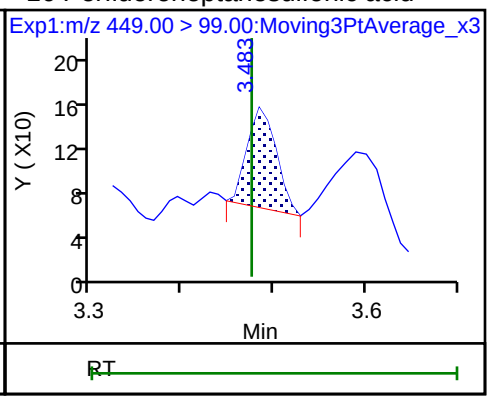


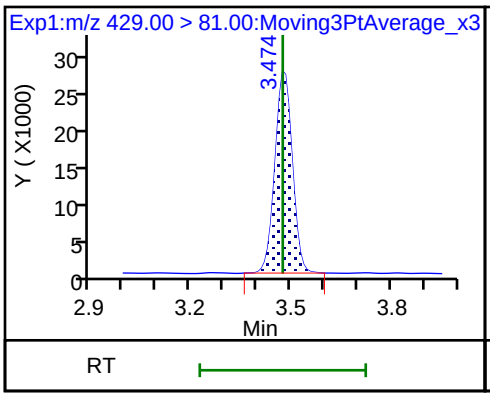
16 Perfluoroheptanesulfonic acid (M)



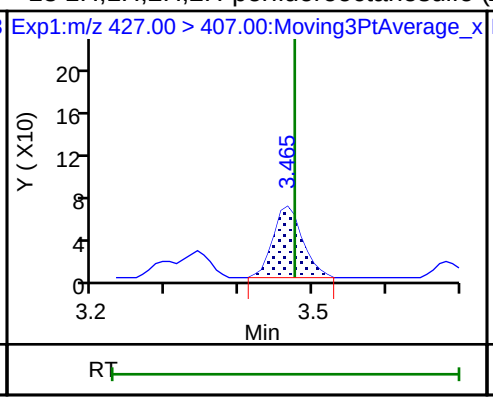
16 Perfluoroheptanesulfonic acid



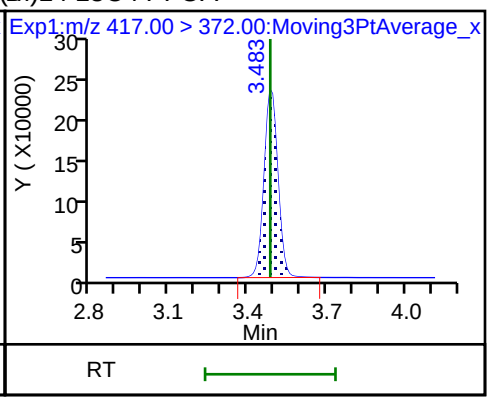
D 12 M2-6:2 FTS



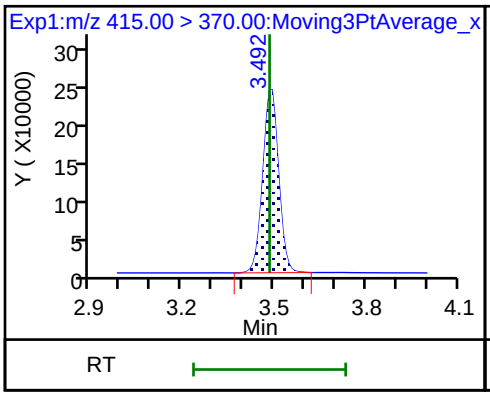
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



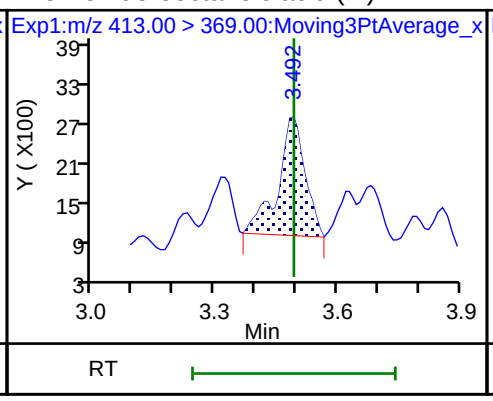
D 14 13C4 PFOA



* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)



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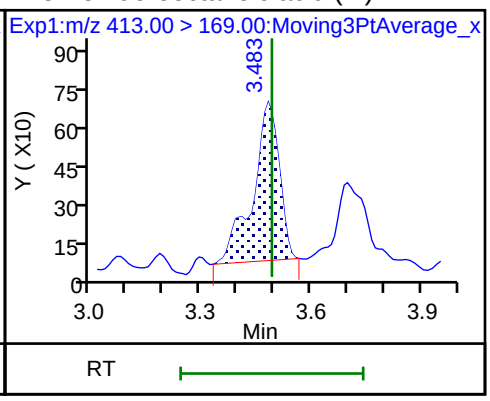

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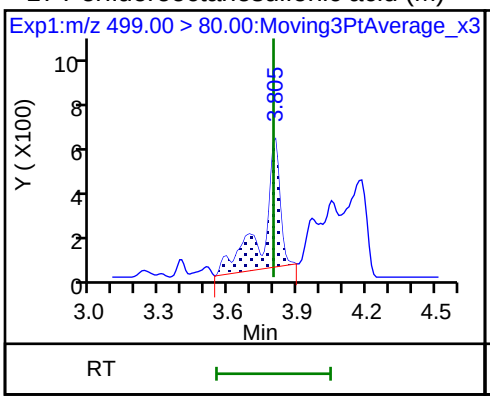

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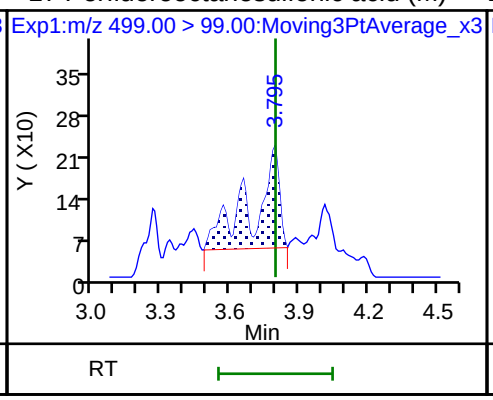
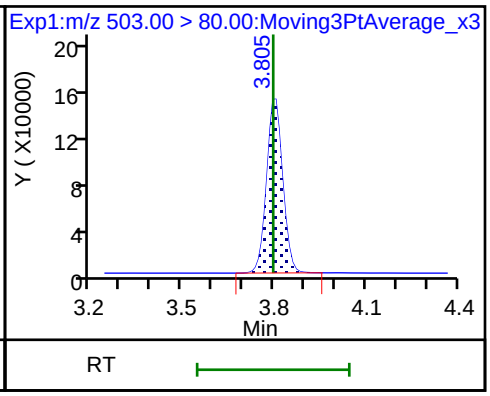
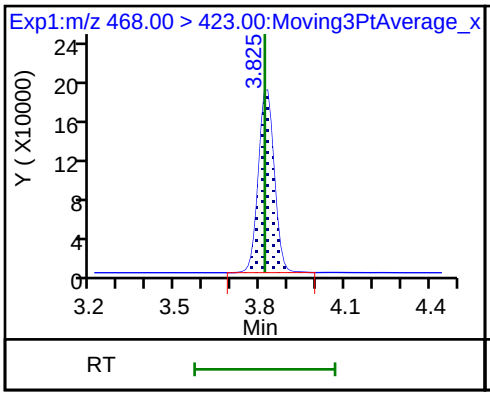


D 18 13C4 PFOS



D 19 13C5 PFNA



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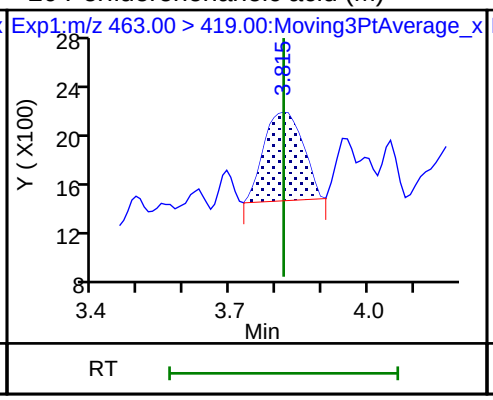

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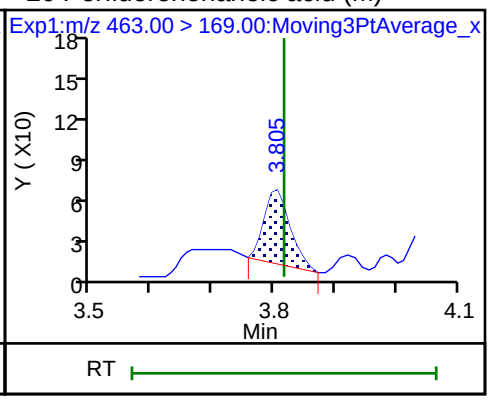
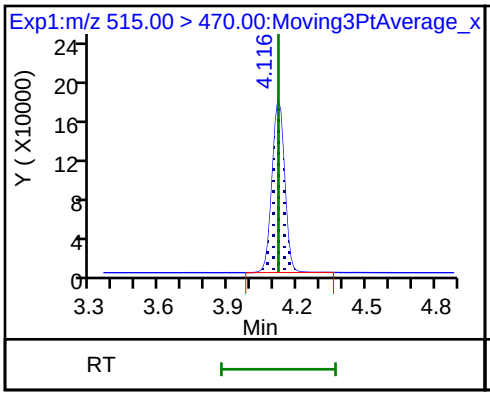
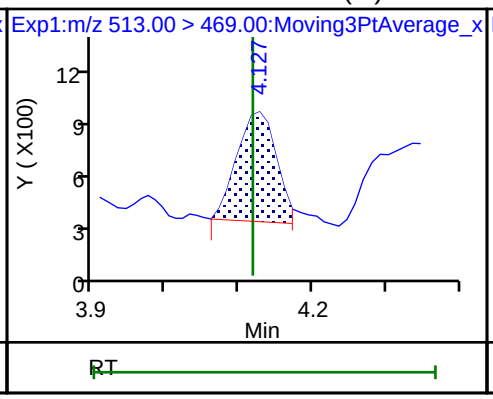


D 23 13C2 PFDA



24 Perfluorodecanoic acid (M)



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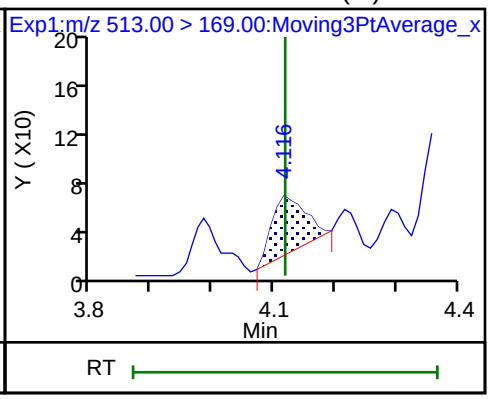
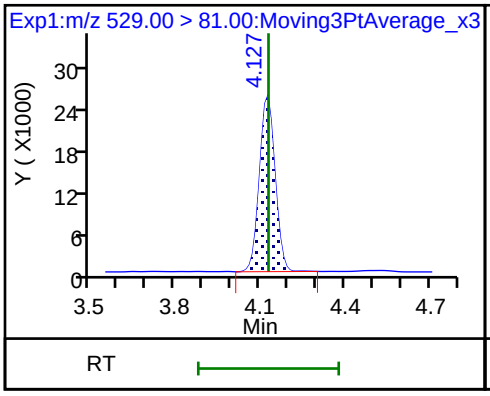
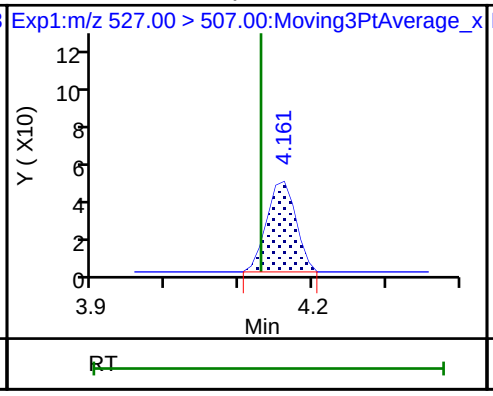


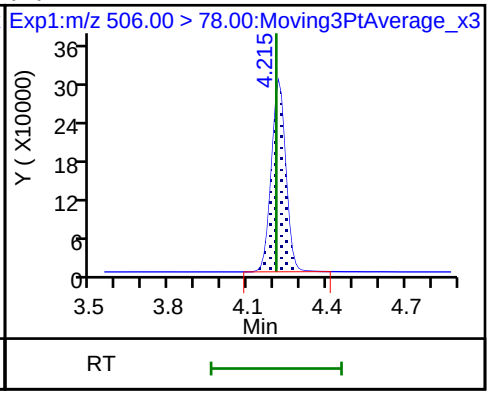
D 26 M2-8:2 FTS



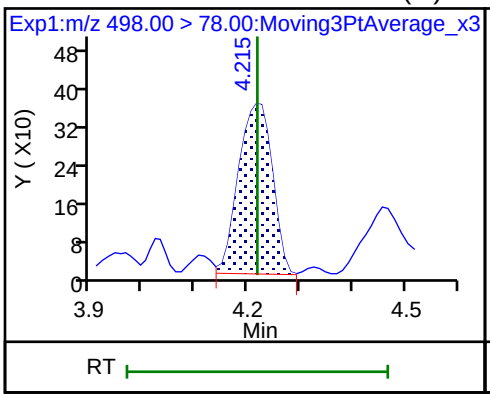
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



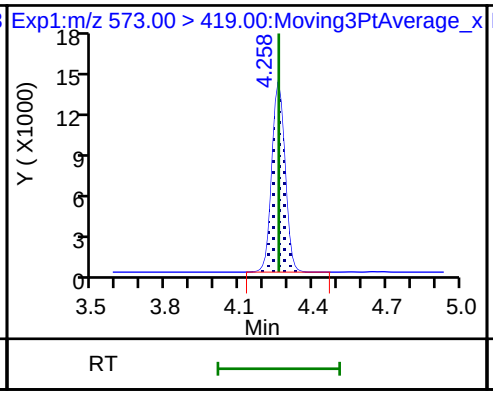
D 21 13C8 FOSA



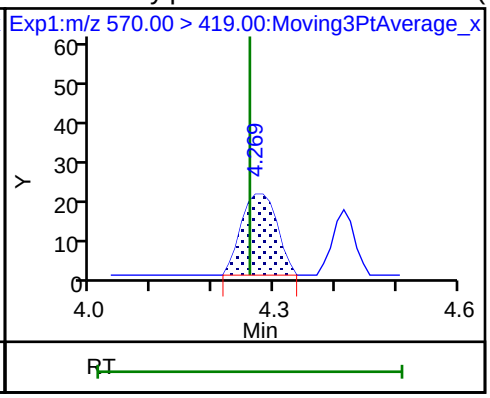
22 Perfluorooctanesulfonamide (M)



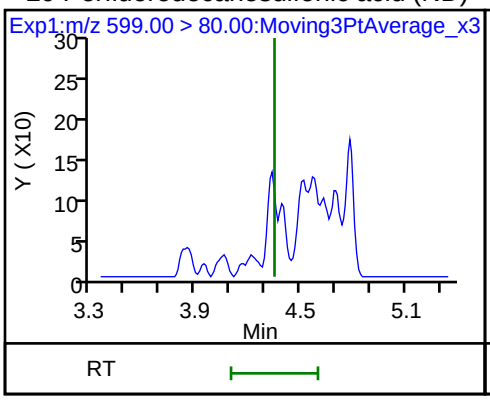
D 27 d3-NMeFOSAA



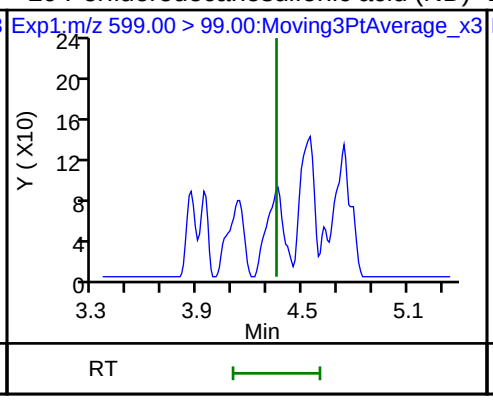
28 N-methylperfluorooctanesulfonami (M)



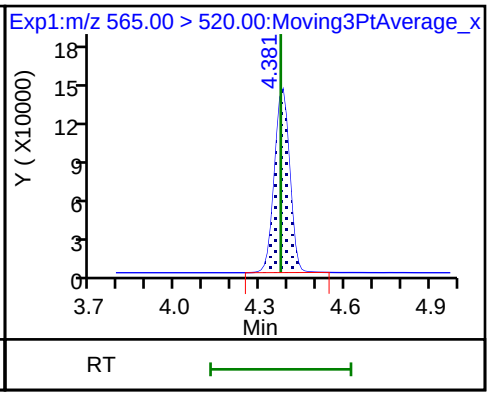
29 Perfluorodecanesulfonic acid (ND)



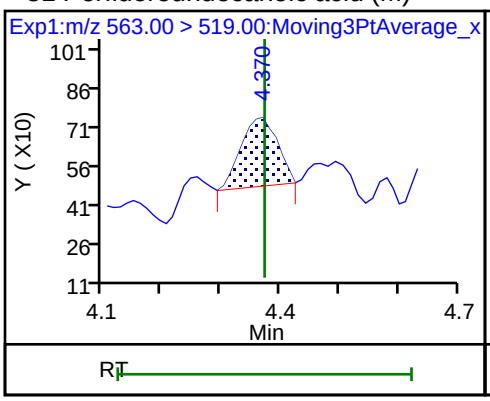
29 Perfluorodecanesulfonic acid (ND)



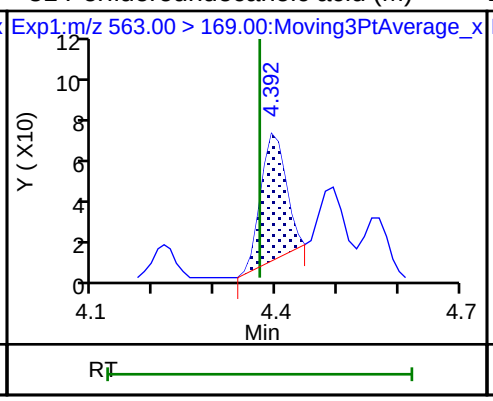
D 30 13C2 PFUnA



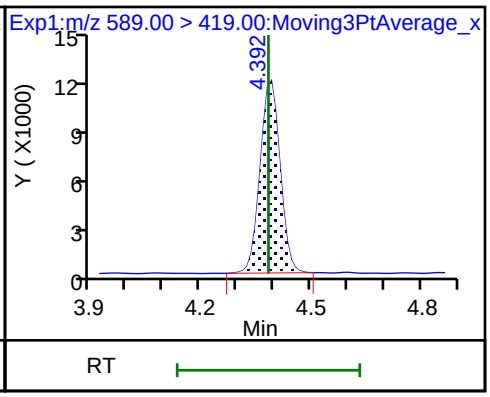
31 Perfluoroundecanoic acid (M)



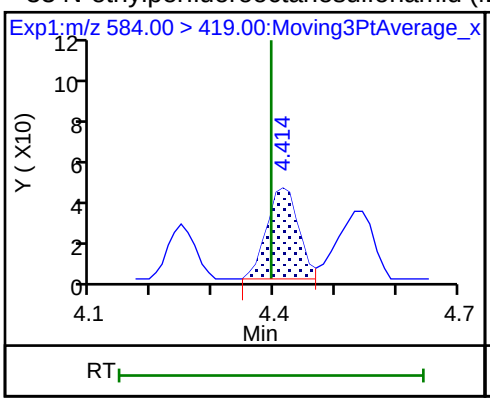
31 Perfluoroundecanoic acid (M)



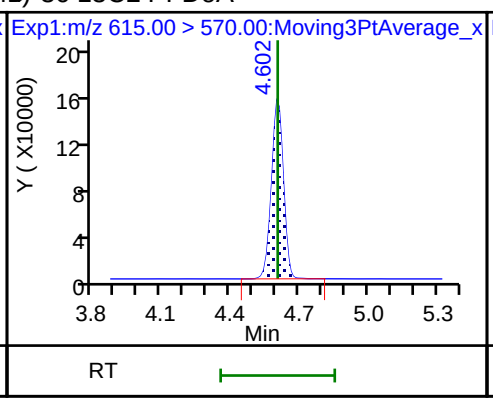
D 32 d5-NEtFOSAA



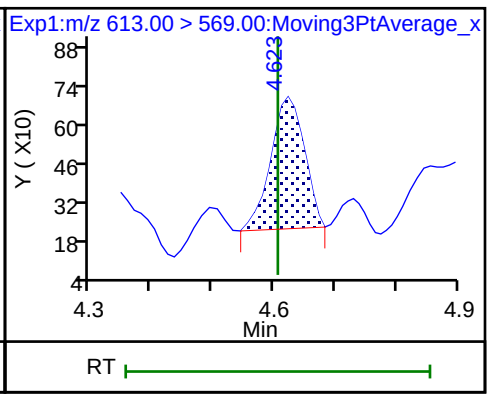
33 N-ethylperfluorooctanesulfonamid (ND)



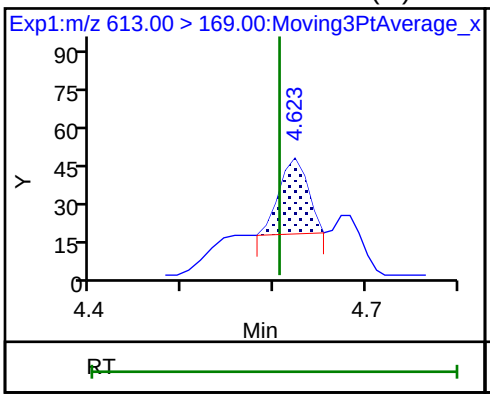
D 36 13C2 PFDoA



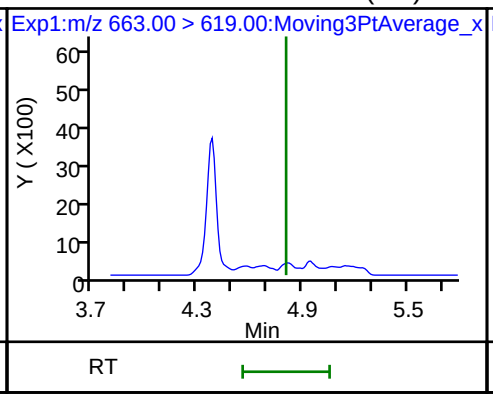
37 Perfluorododecanoic acid



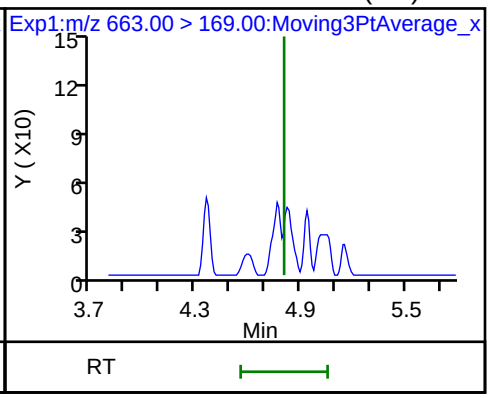
37 Perfluorododecanoic acid (M)



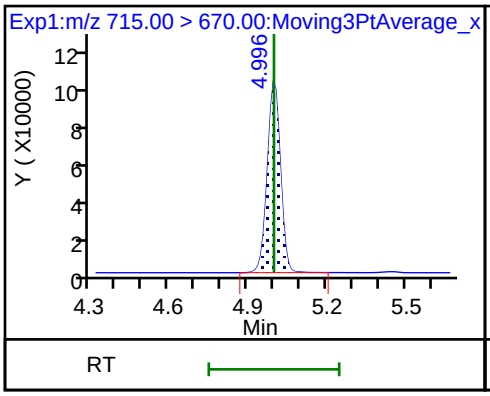
41 Perfluorotridecanoic acid (ND)



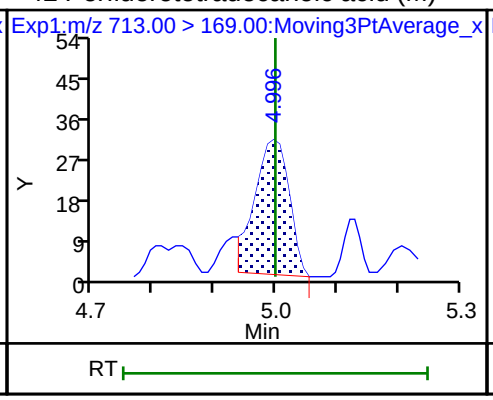
41 Perfluorotridecanoic acid (ND)



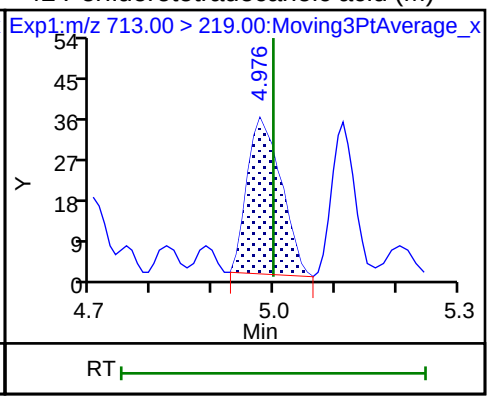
D 43 13C2 PFTeDA



42 Perfluorotetradecanoic acid (M)



42 Perfluorotetradecanoic acid (M)



Eurofins TestAmerica, Burlington

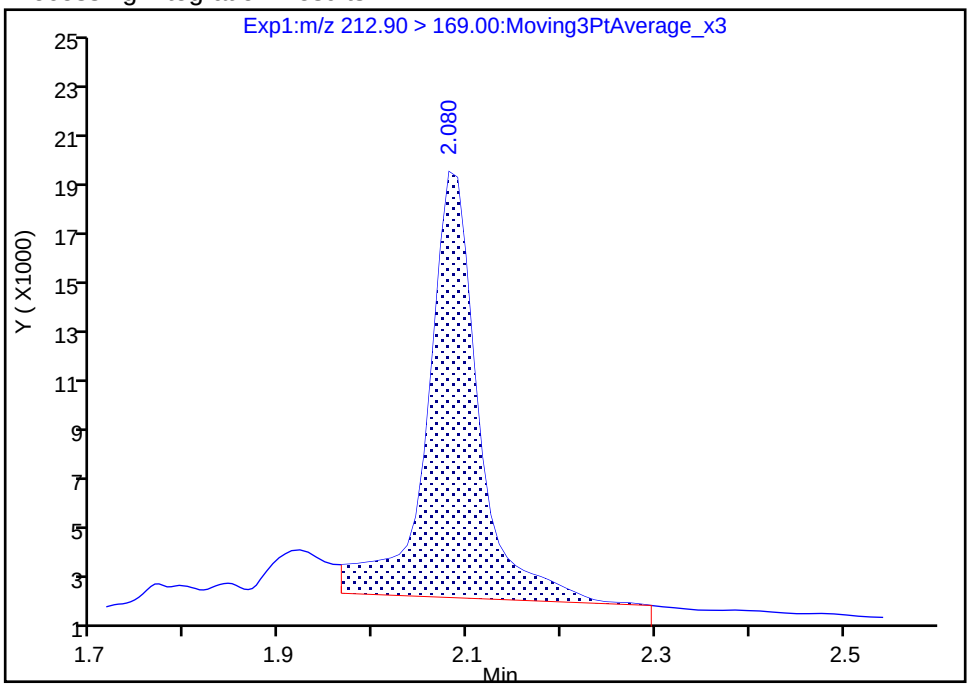
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A15.d				
Injection Date:	26-Feb-2021 14:42:25	Instrument ID:	LC812		
Lims ID:	480-181249-A-6-A	Lab Sample ID:	200-181249-6		
Client ID:	DUP-SB (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

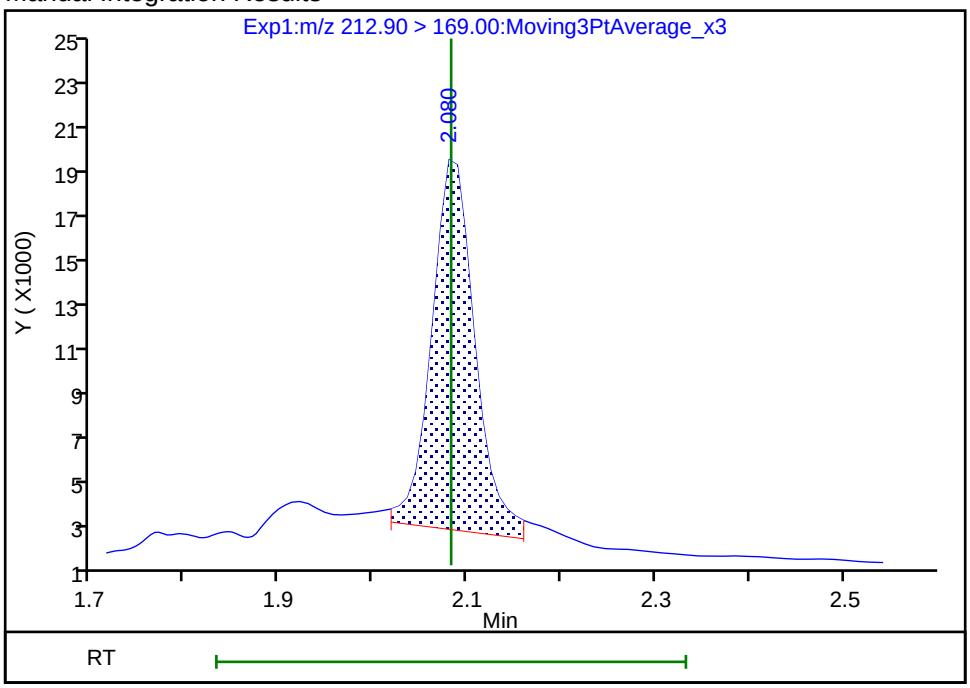
Processing Integration Results

RT: 2.08
Area: 64909
Amount: 0.189589
Amount Units: ng/ml



Manual Integration Results

RT: 2.08
Area: 52219
Amount: 0.152524
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:17:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

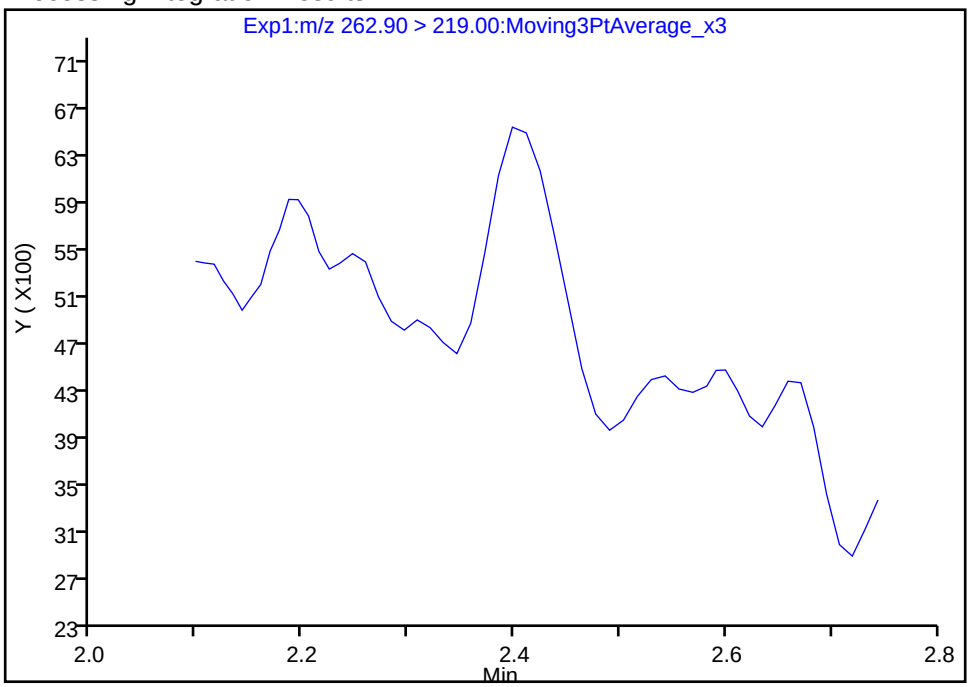
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A15.d				
Injection Date:	26-Feb-2021 14:42:25	Instrument ID:	LC812		
Lims ID:	480-181249-A-6-A	Lab Sample ID:	200-181249-6		
Client ID:	DUP-SB (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

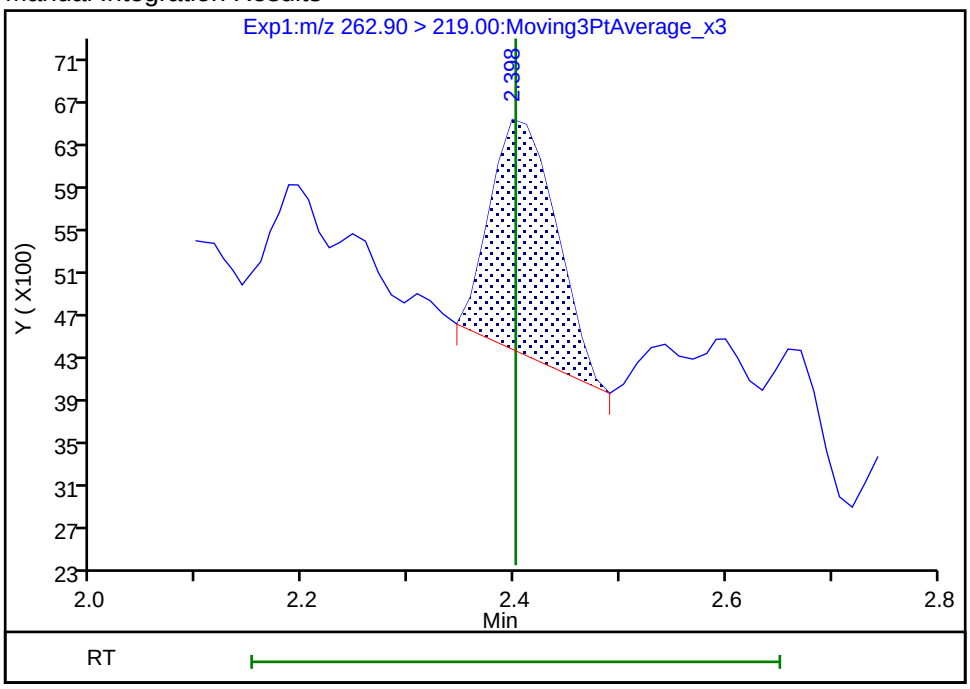
Not Detected
Expected RT: 2.40

Processing Integration Results



Manual Integration Results

RT: 2.40
Area: 9330
Amount: 0.012917
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:17:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

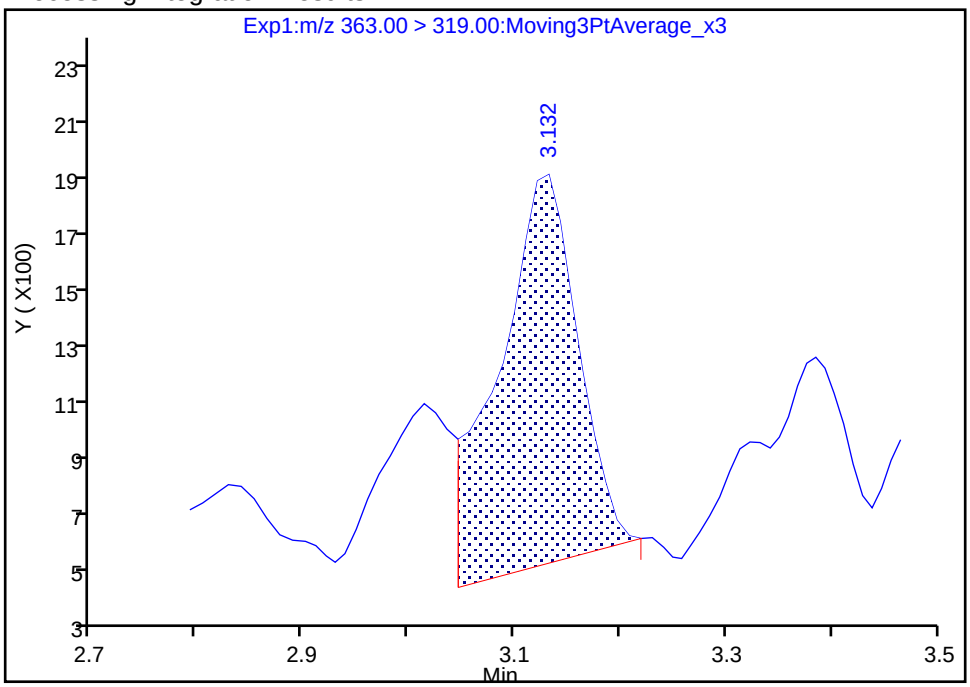
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A15.d				
Injection Date:	26-Feb-2021 14:42:25	Instrument ID:	LC812		
Lims ID:	480-181249-A-6-A	Lab Sample ID:	200-181249-6		
Client ID:	DUP-SB (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

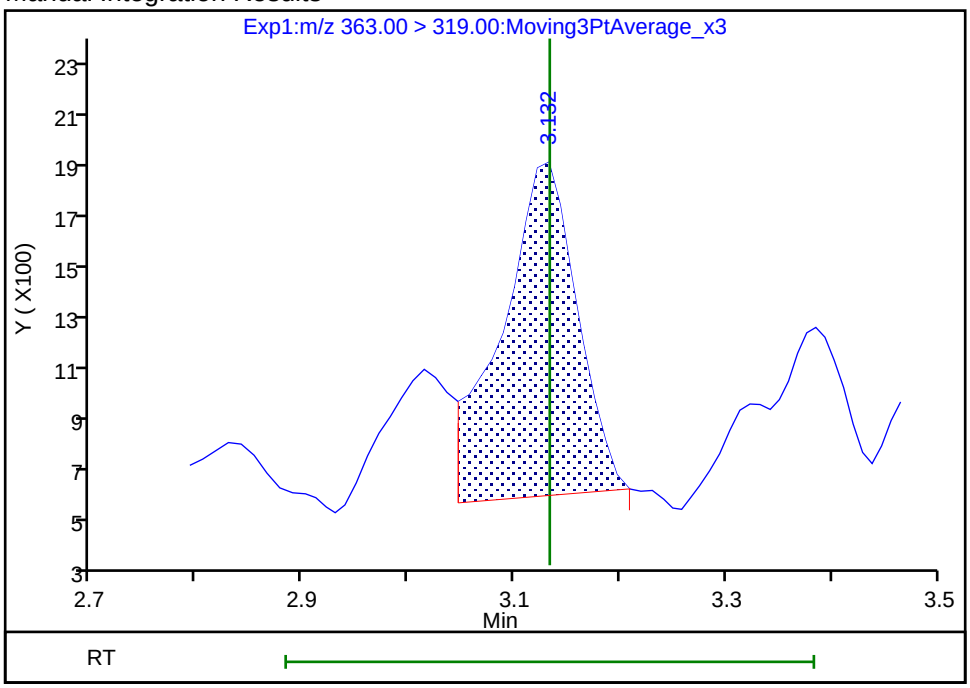
Processing Integration Results

RT: 3.13
Area: 7075
Amount: 0.009527
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 6360
Amount: 0.008564
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:18:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

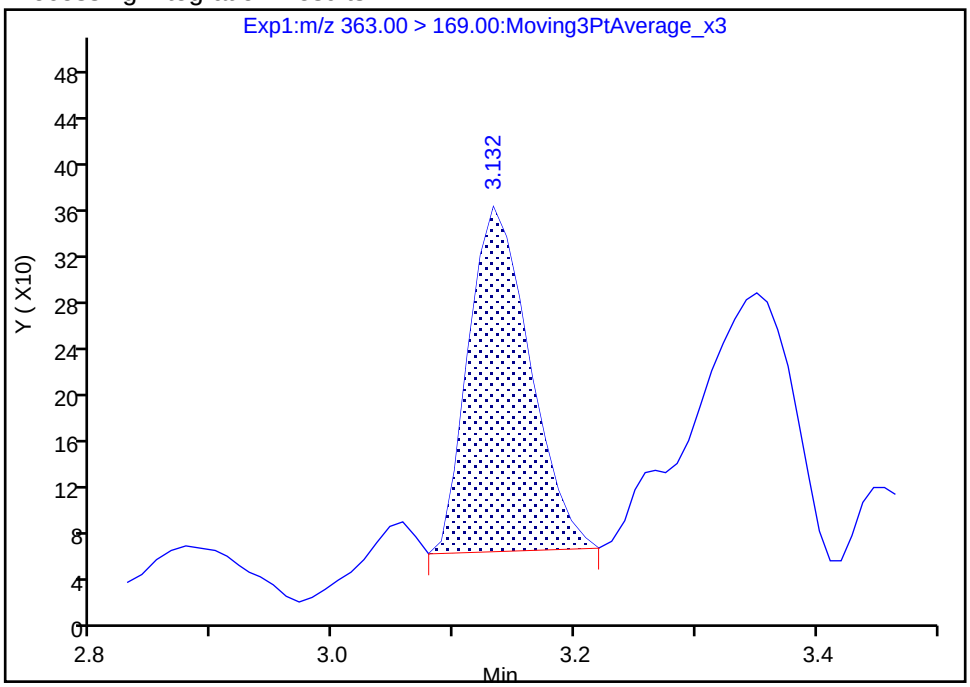
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A15.d				
Injection Date:	26-Feb-2021 14:42:25	Instrument ID:	LC812		
Lims ID:	480-181249-A-6-A	Lab Sample ID:	200-181249-6		
Client ID:	DUP-SB (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

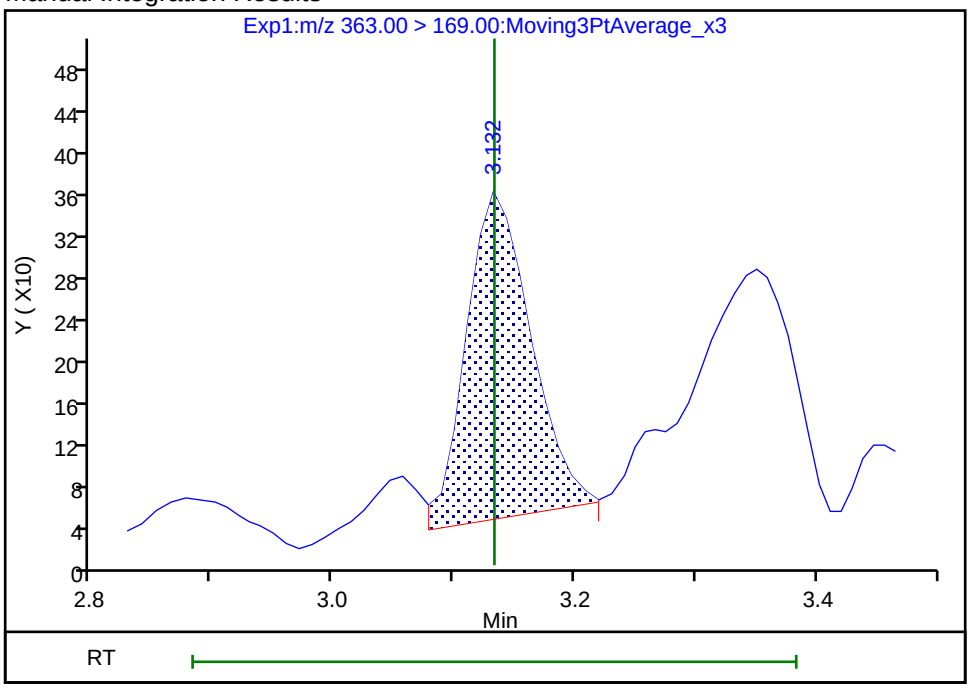
Processing Integration Results

RT: 3.13
Area: 1061
Amount: 0.009527
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 1171
Amount: 0.008564
Amount Units: ng/ml



Reviewer: deannd, 01-Mar-2021 10:51:55

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

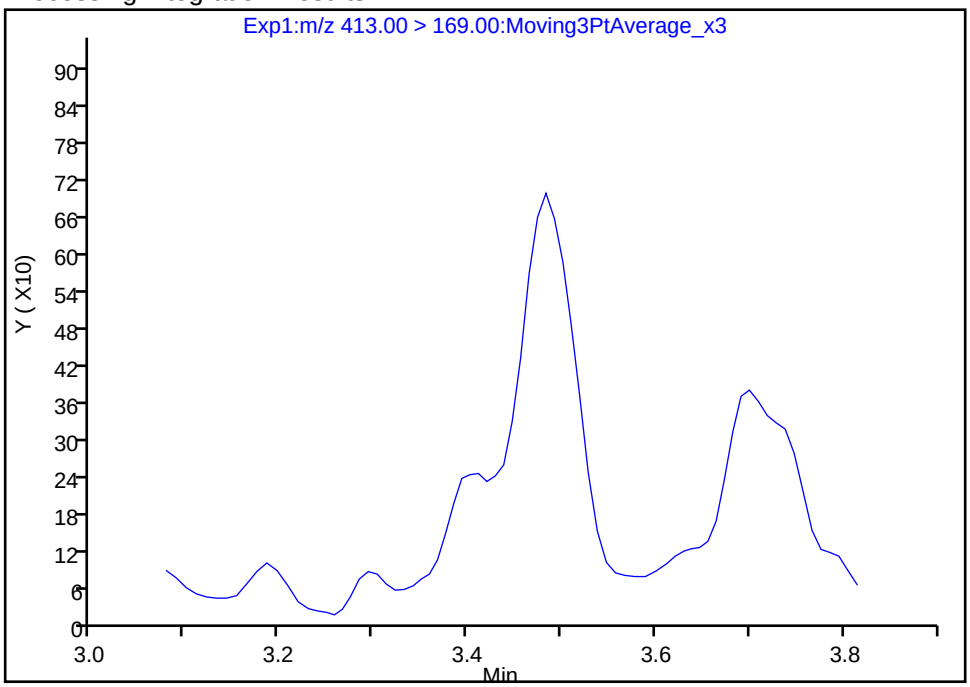
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A15.d				
Injection Date:	26-Feb-2021 14:42:25	Instrument ID:	LC812		
Lims ID:	480-181249-A-6-A	Lab Sample ID:	200-181249-6		
Client ID:	DUP-SB (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

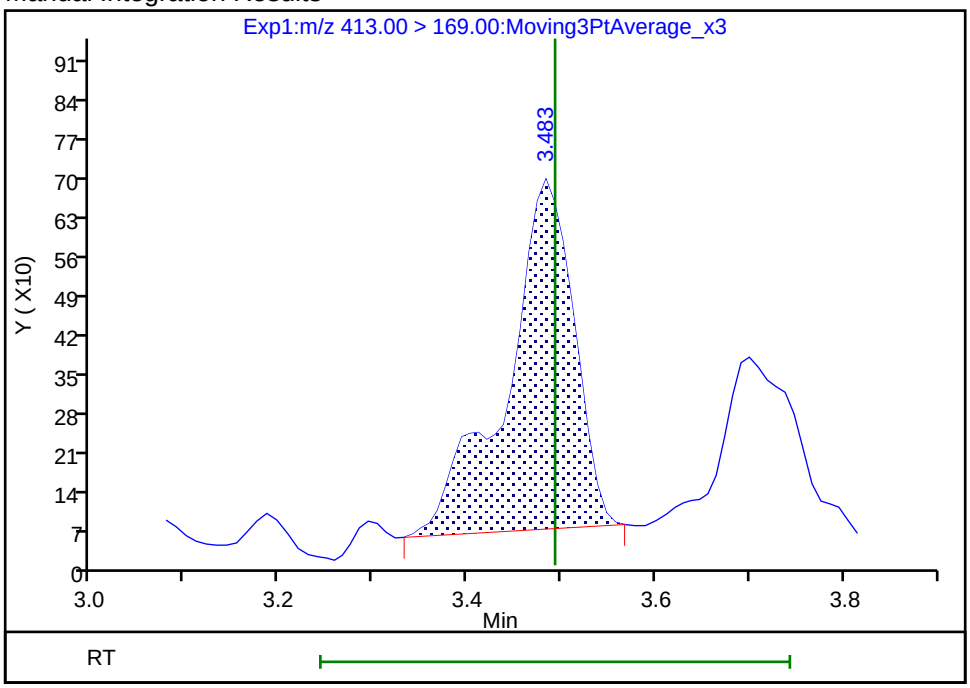
Not Detected
Expected RT: 3.49

Processing Integration Results



Manual Integration Results

RT: 3.48
Area: 3120
Amount: 0.011514
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:18:52
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

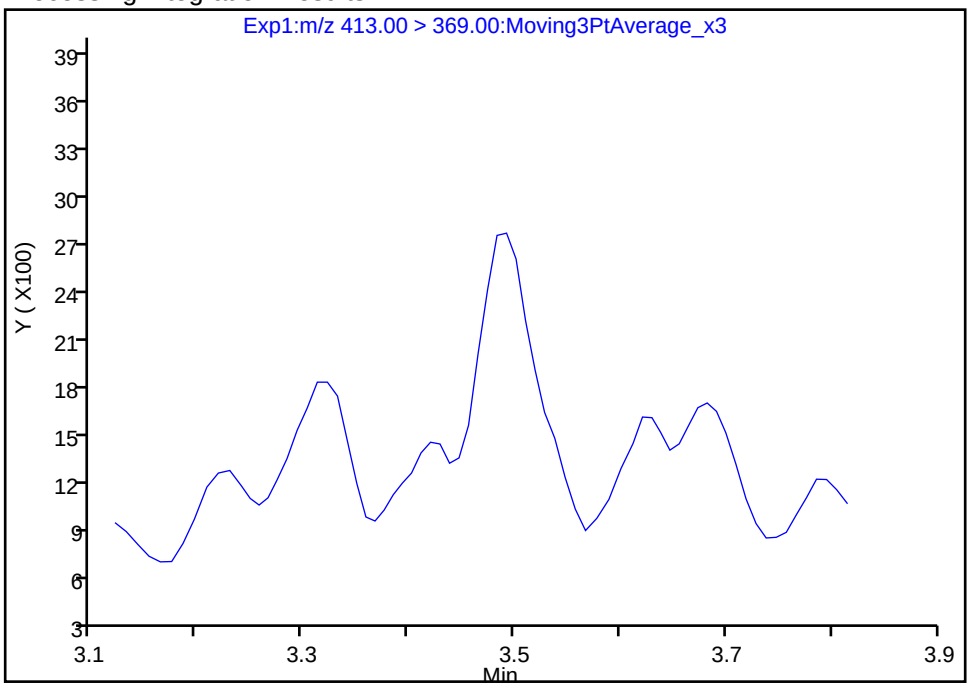
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A15.d				
Injection Date:	26-Feb-2021 14:42:25	Instrument ID:	LC812		
Lims ID:	480-181249-A-6-A	Lab Sample ID:	200-181249-6		
Client ID:	DUP-SB (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

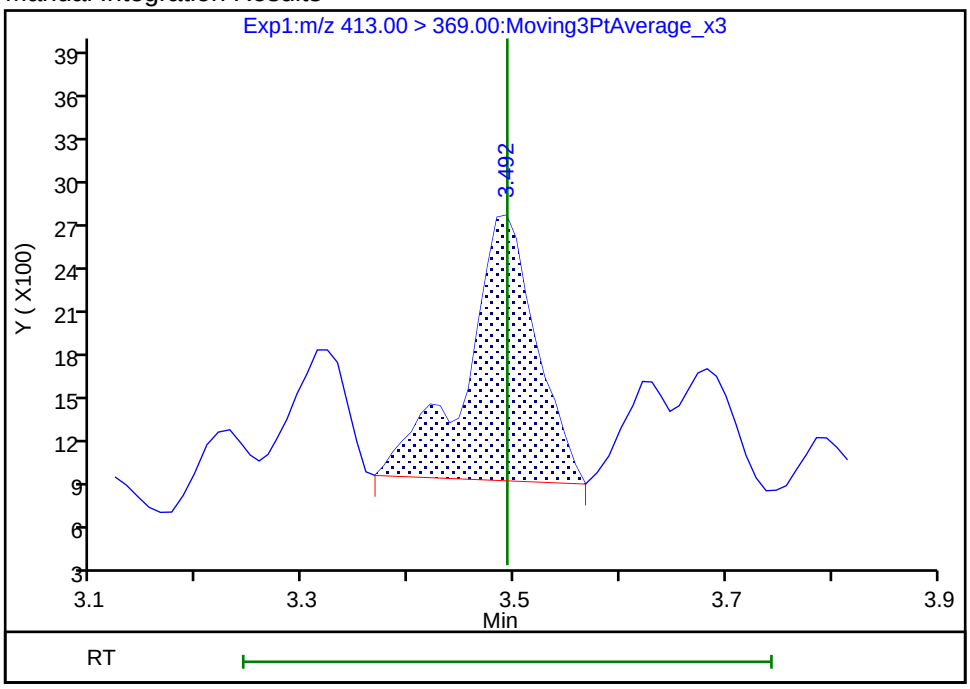
Not Detected
Expected RT: 3.49

Processing Integration Results



Manual Integration Results

RT: 3.49
Area: 8382
Amount: 0.011514
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:18:55
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

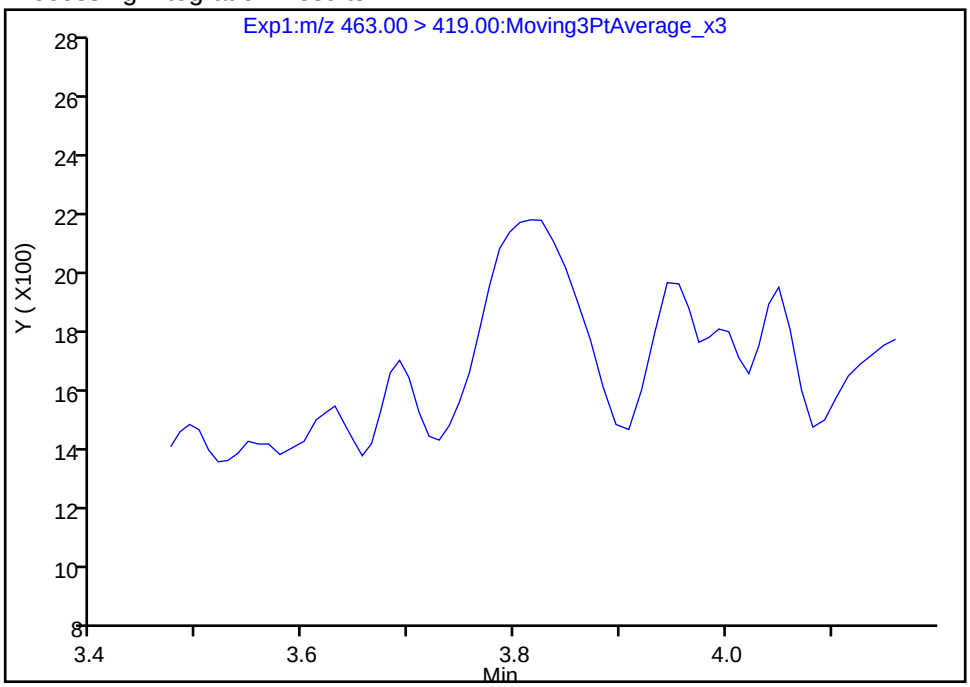
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A15.d				
Injection Date:	26-Feb-2021 14:42:25	Instrument ID:	LC812		
Lims ID:	480-181249-A-6-A	Lab Sample ID:	200-181249-6		
Client ID:	DUP-SB (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

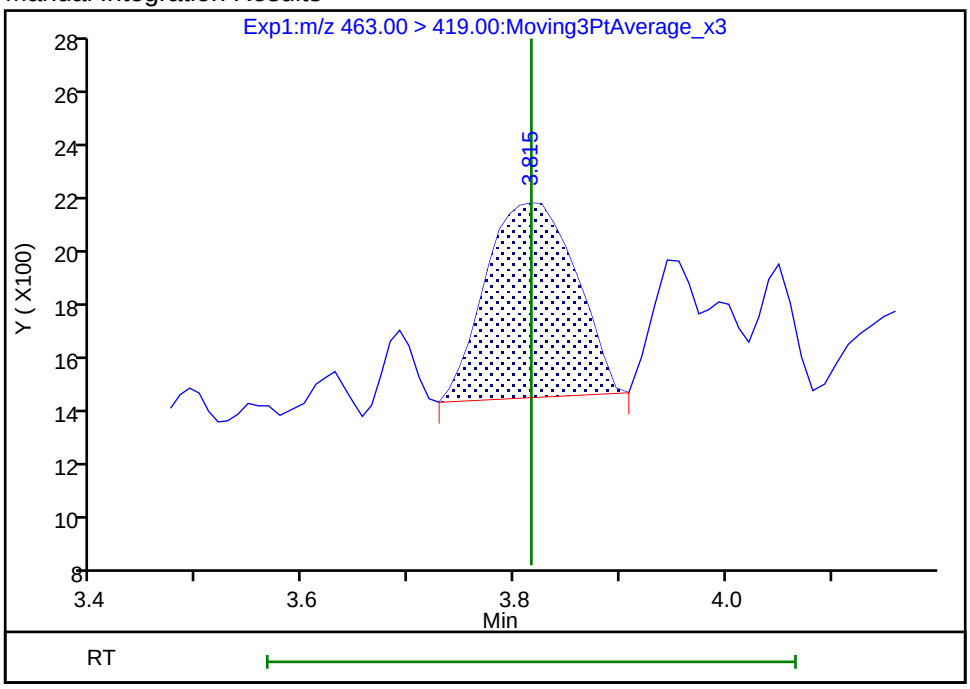
Not Detected
Expected RT: 3.82

Processing Integration Results



Manual Integration Results

RT: 3.82
Area: 4244
Amount: 0.006690
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:19:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

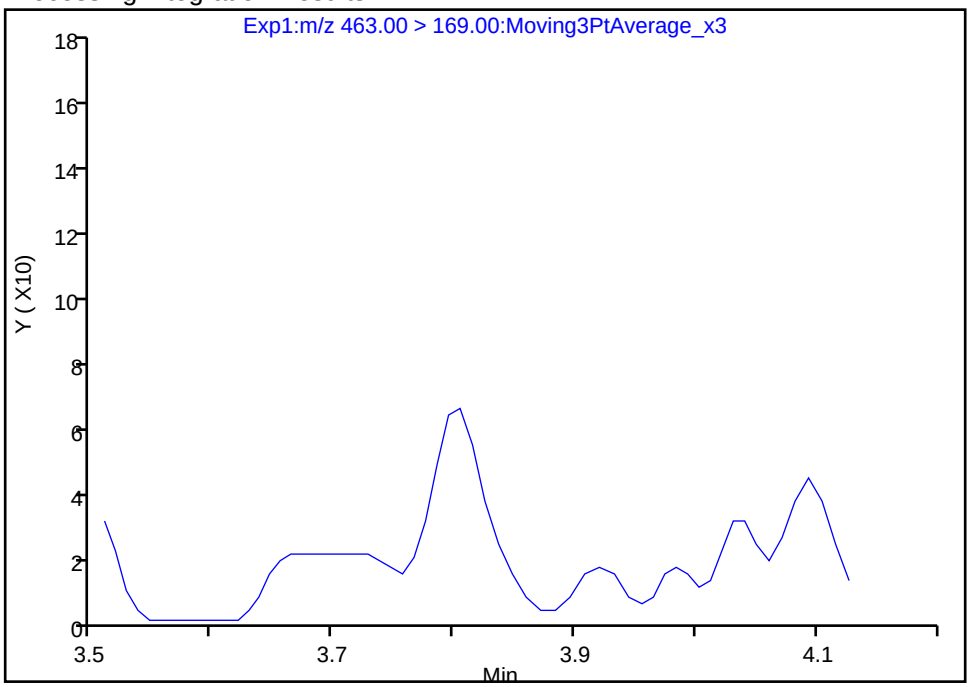
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A15.d				
Injection Date:	26-Feb-2021 14:42:25	Instrument ID:	LC812		
Lims ID:	480-181249-A-6-A	Lab Sample ID:	200-181249-6		
Client ID:	DUP-SB (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

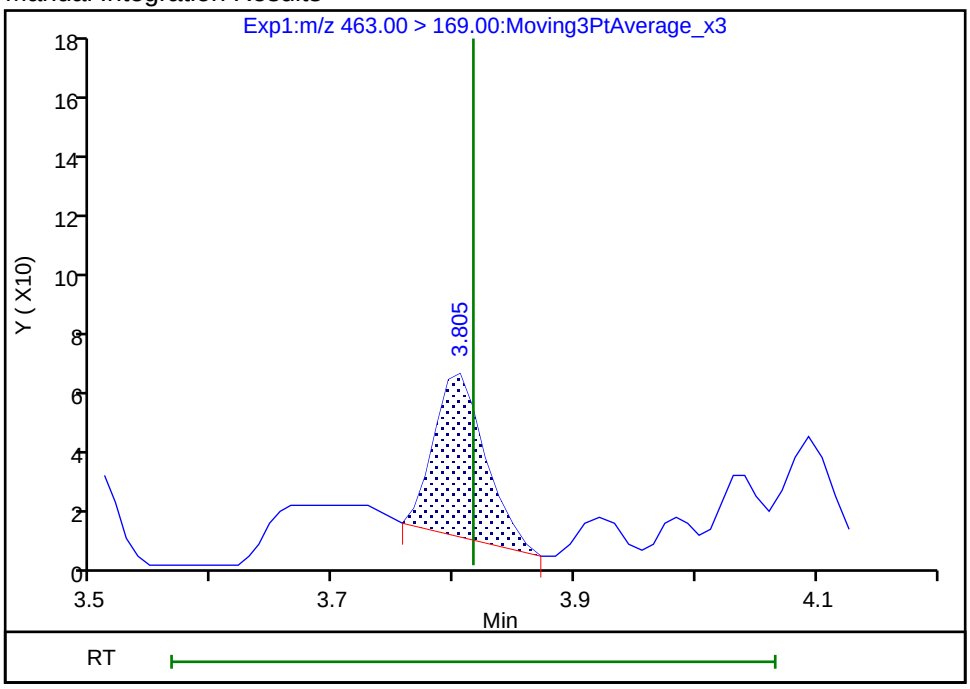
Not Detected
Expected RT: 3.82

Processing Integration Results



Manual Integration Results

RT: 3.80
Area: 161
Amount: 0.006690
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:19:42
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

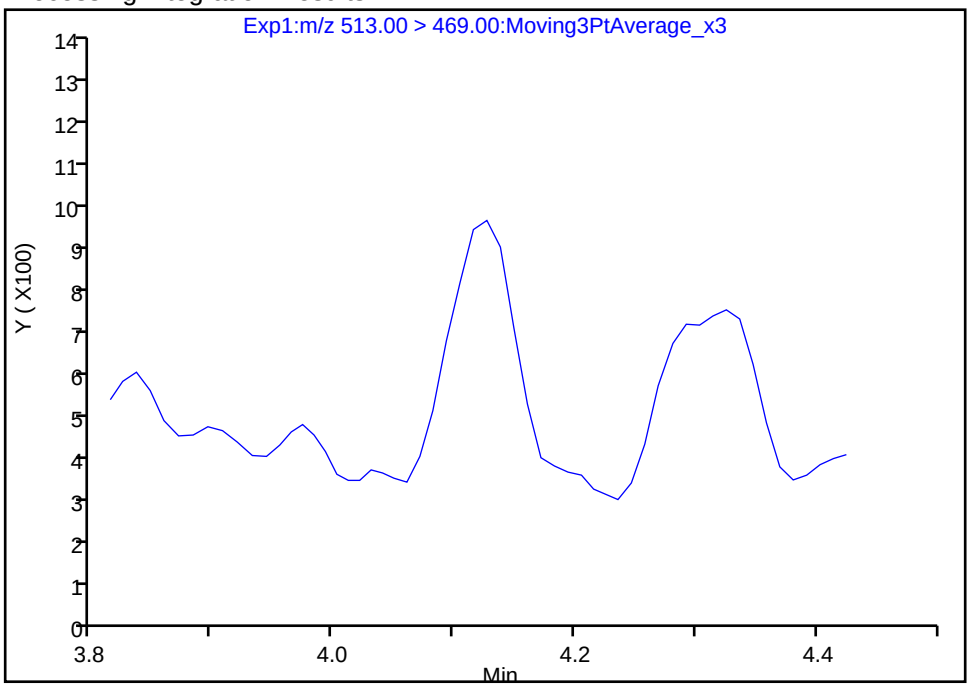
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A15.d				
Injection Date:	26-Feb-2021 14:42:25	Instrument ID:	LC812		
Lims ID:	480-181249-A-6-A	Lab Sample ID:	200-181249-6		
Client ID:	DUP-SB (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

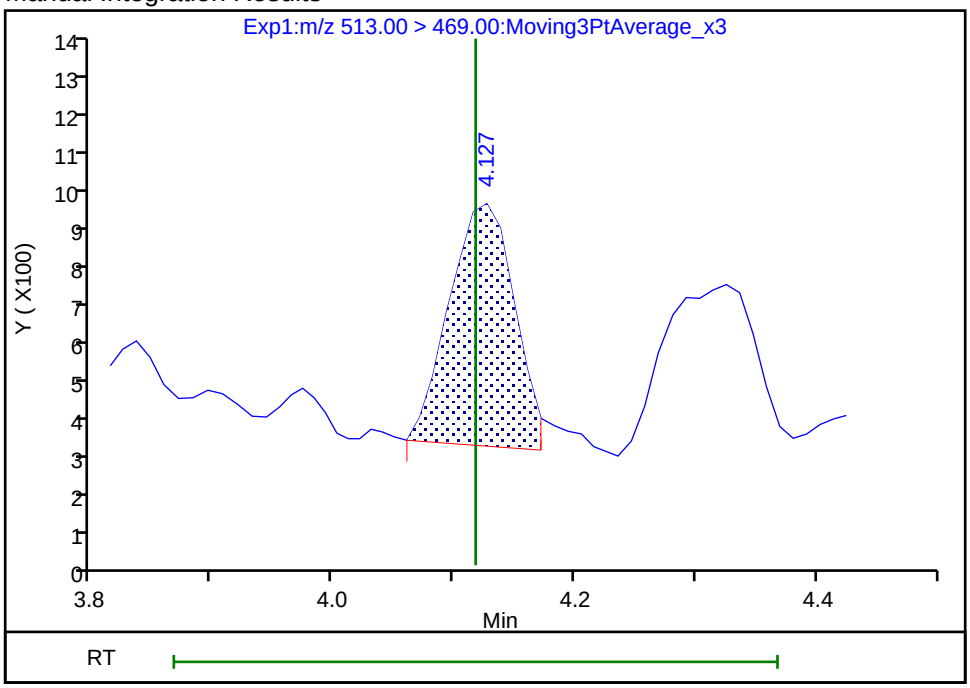
Not Detected
Expected RT: 4.12

Processing Integration Results



Manual Integration Results

RT: 4.13
Area: 2282
Amount: 0.004151
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:19:54
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

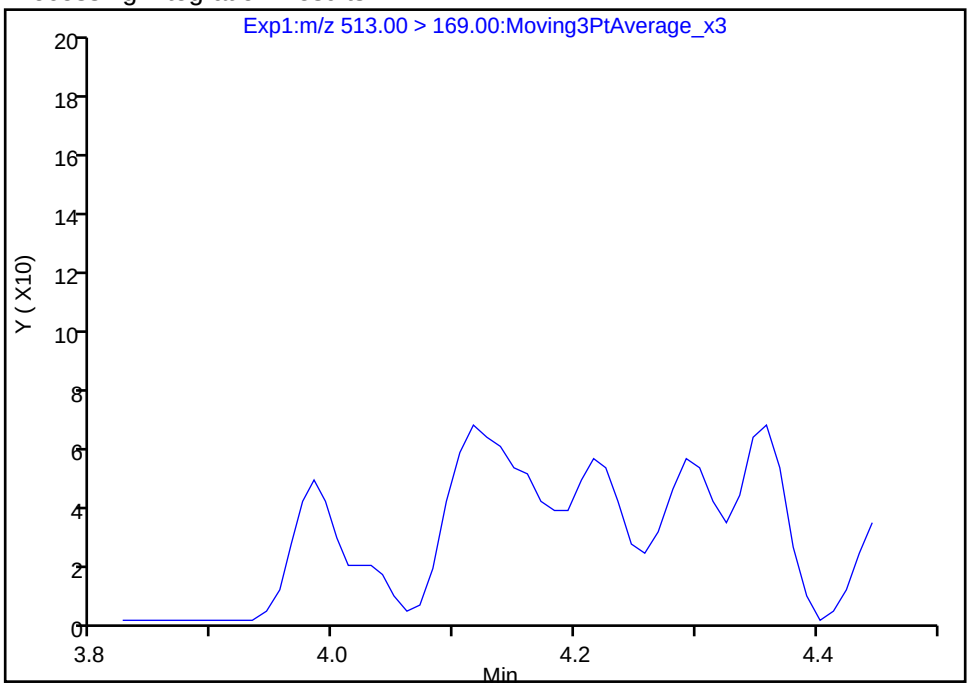
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A15.d				
Injection Date:	26-Feb-2021 14:42:25	Instrument ID:	LC812		
Lims ID:	480-181249-A-6-A	Lab Sample ID:	200-181249-6		
Client ID:	DUP-SB (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

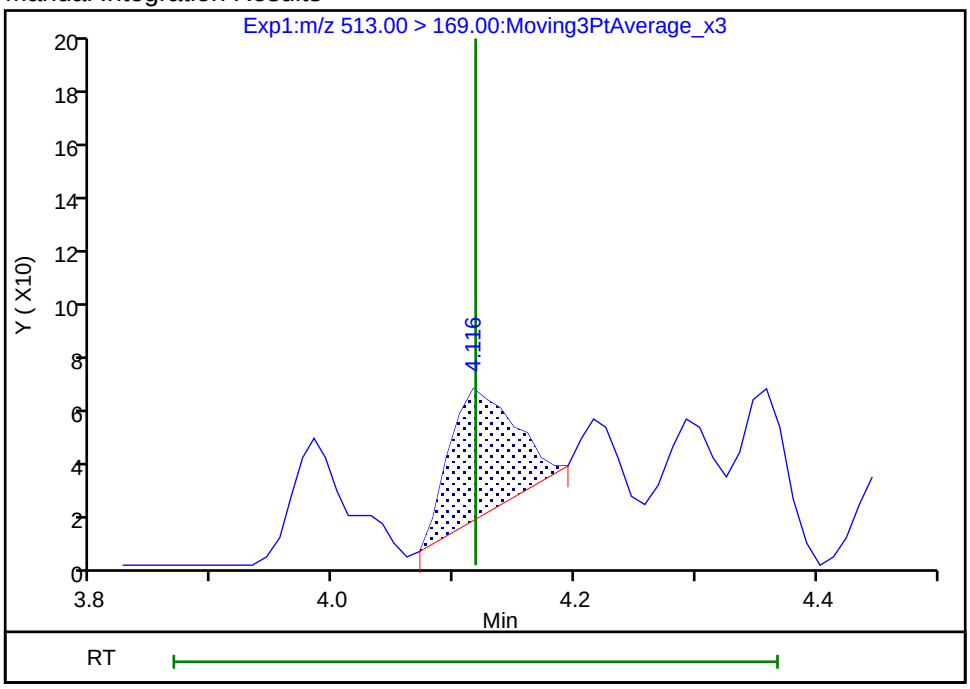
Not Detected
Expected RT: 4.12

Processing Integration Results



Manual Integration Results

RT: 4.12
Area: 174
Amount: 0.004151
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:19:58
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

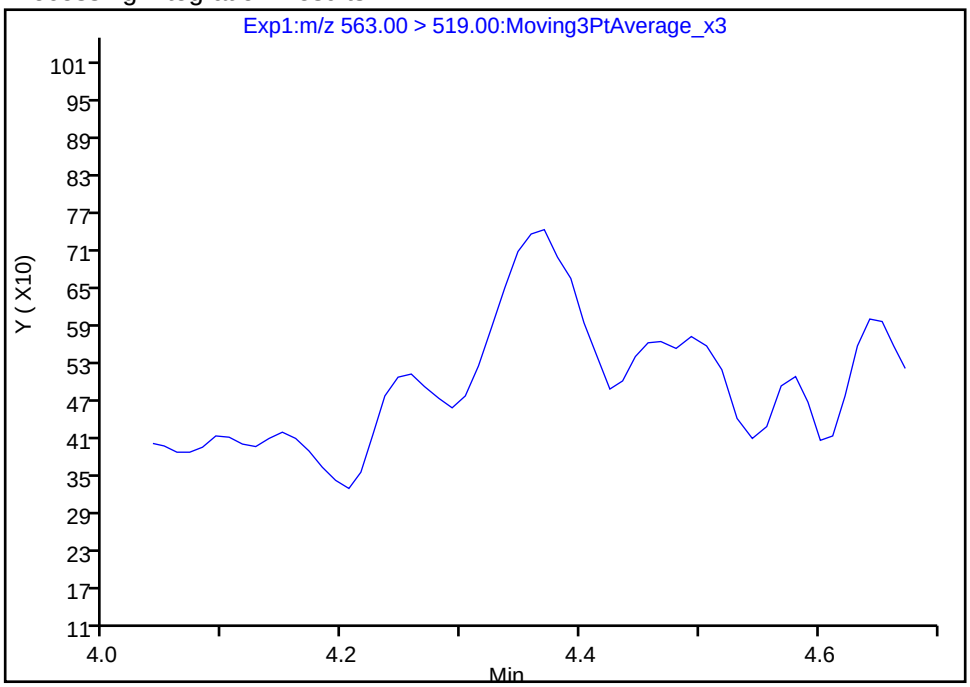
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A15.d				
Injection Date:	26-Feb-2021 14:42:25	Instrument ID:	LC812		
Lims ID:	480-181249-A-6-A	Lab Sample ID:	200-181249-6		
Client ID:	DUP-SB (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

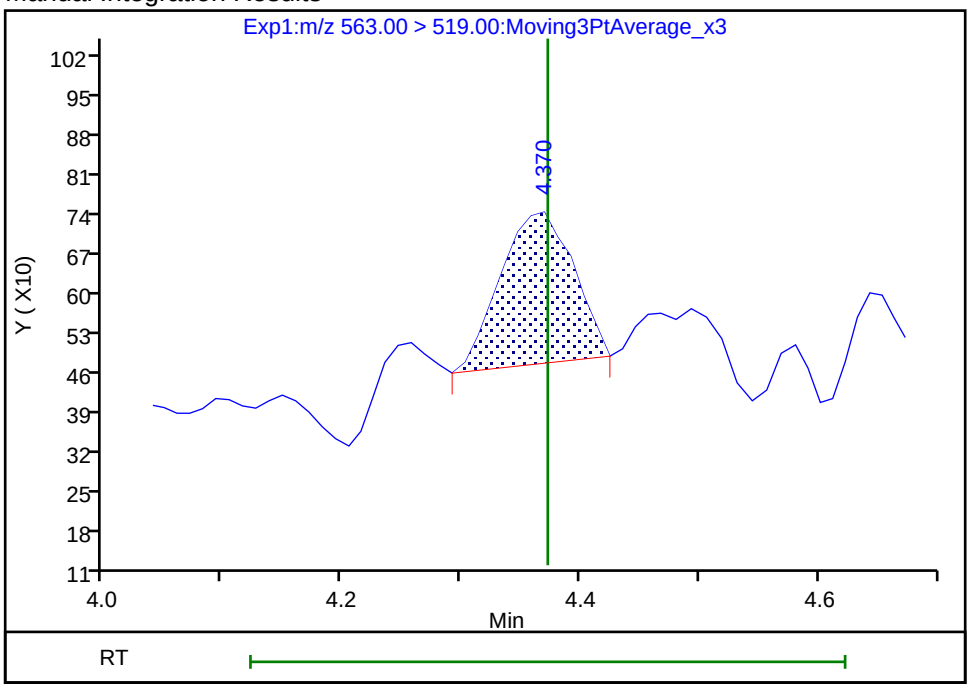
Not Detected
Expected RT: 4.37

Processing Integration Results



Manual Integration Results

RT: 4.37
Area: 1143
Amount: 0.002630
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:20:37
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

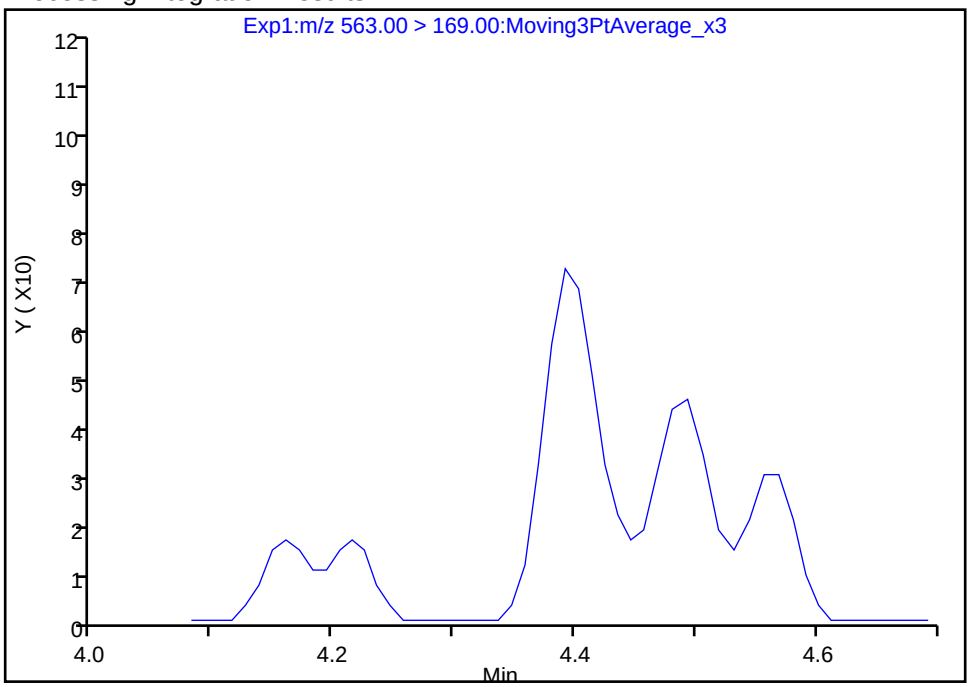
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A15.d				
Injection Date:	26-Feb-2021 14:42:25	Instrument ID:	LC812		
Lims ID:	480-181249-A-6-A	Lab Sample ID:	200-181249-6		
Client ID:	DUP-SB (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

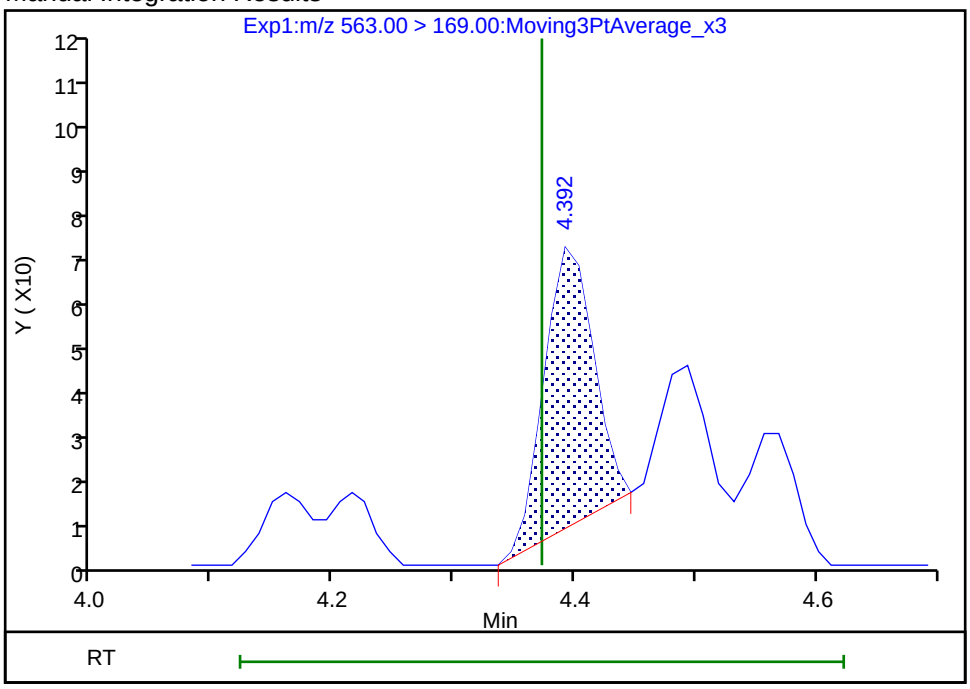
Processing Integration Results

Not Detected
Expected RT: 4.37



Manual Integration Results

RT: 4.39
Area: 175
Amount: 0.002630
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:20:43
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

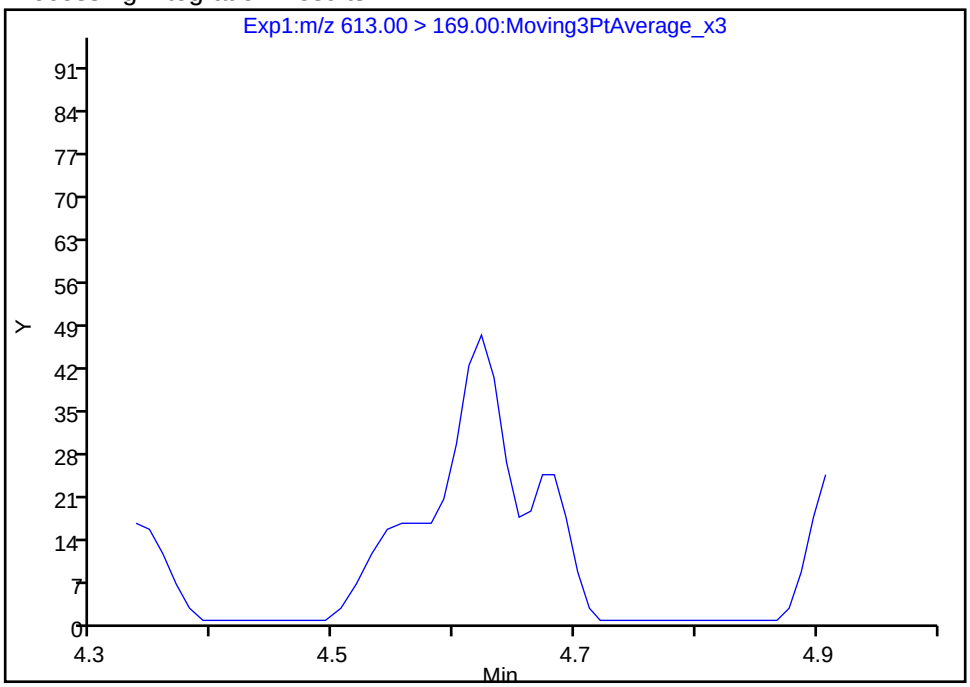
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A15.d				
Injection Date:	26-Feb-2021 14:42:25	Instrument ID:	LC812		
Lims ID:	480-181249-A-6-A	Lab Sample ID:	200-181249-6		
Client ID:	DUP-SB (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

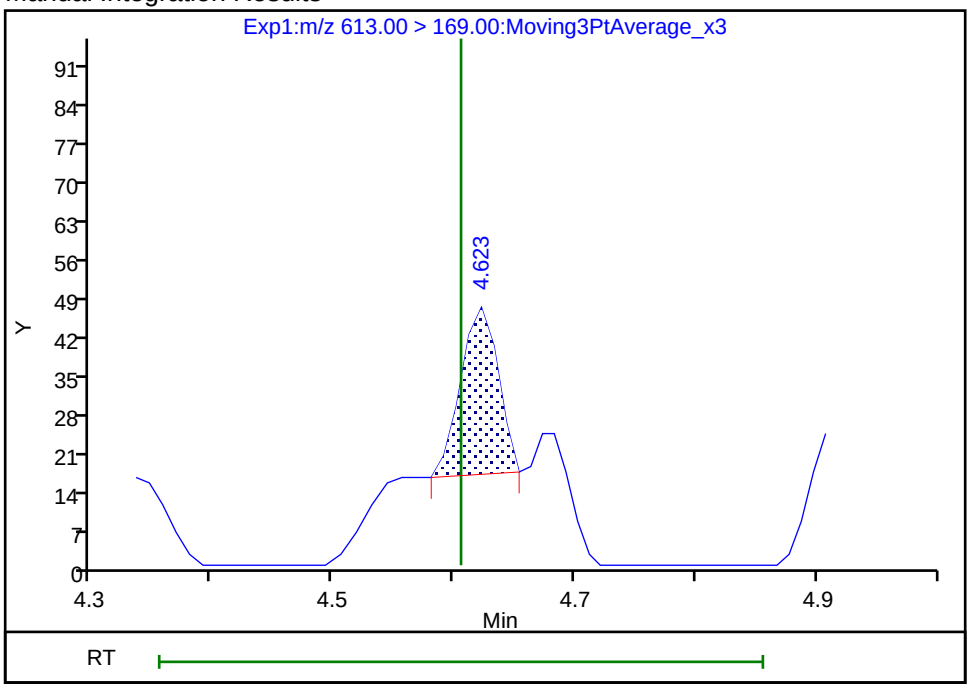
Not Detected
Expected RT: 4.61

Processing Integration Results



Manual Integration Results

RT: 4.62
Area: 65
Amount: 0.003708
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:21:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

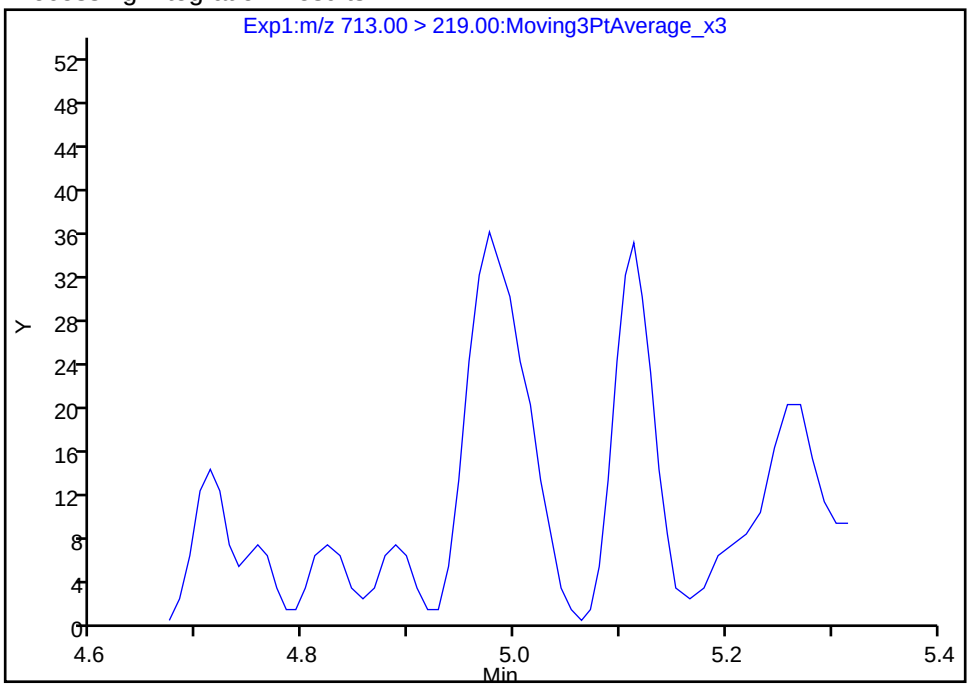
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A15.d				
Injection Date:	26-Feb-2021 14:42:25	Instrument ID:	LC812		
Lims ID:	480-181249-A-6-A	Lab Sample ID:	200-181249-6		
Client ID:	DUP-SB (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

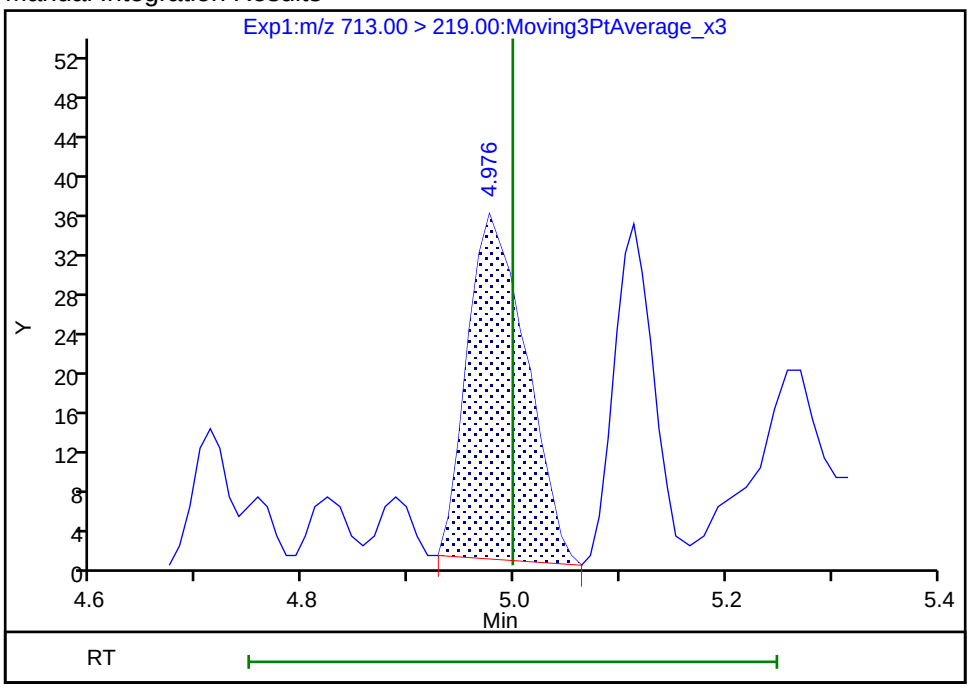
Not Detected
Expected RT: 5.00

Processing Integration Results



Manual Integration Results

RT: 4.98
Area: 136
Amount: 0.002264
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:21:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

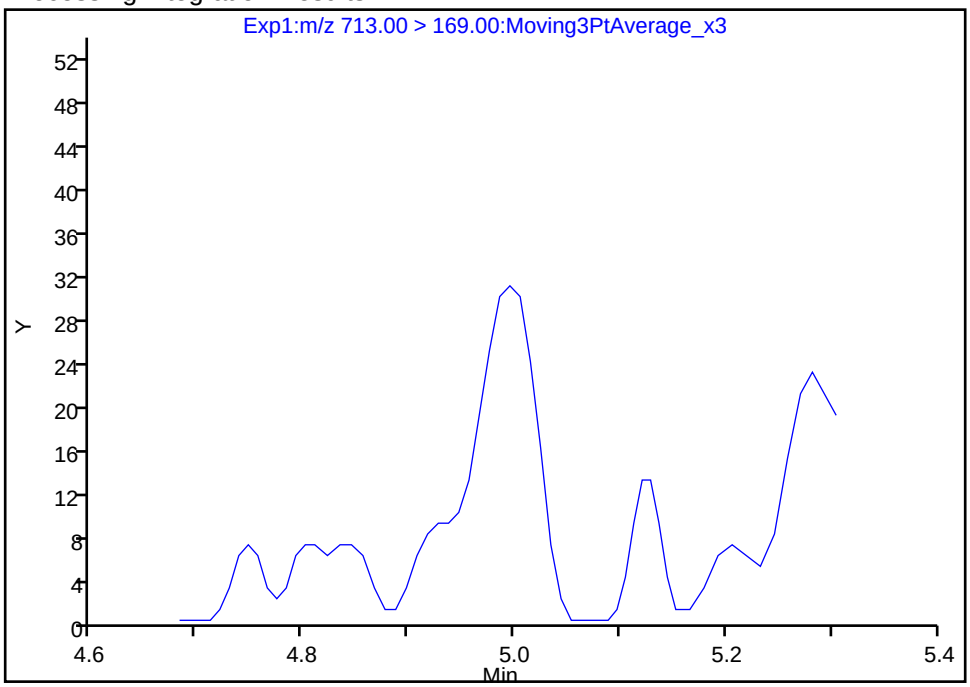
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A15.d				
Injection Date:	26-Feb-2021 14:42:25	Instrument ID:	LC812		
Lims ID:	480-181249-A-6-A	Lab Sample ID:	200-181249-6		
Client ID:	DUP-SB (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

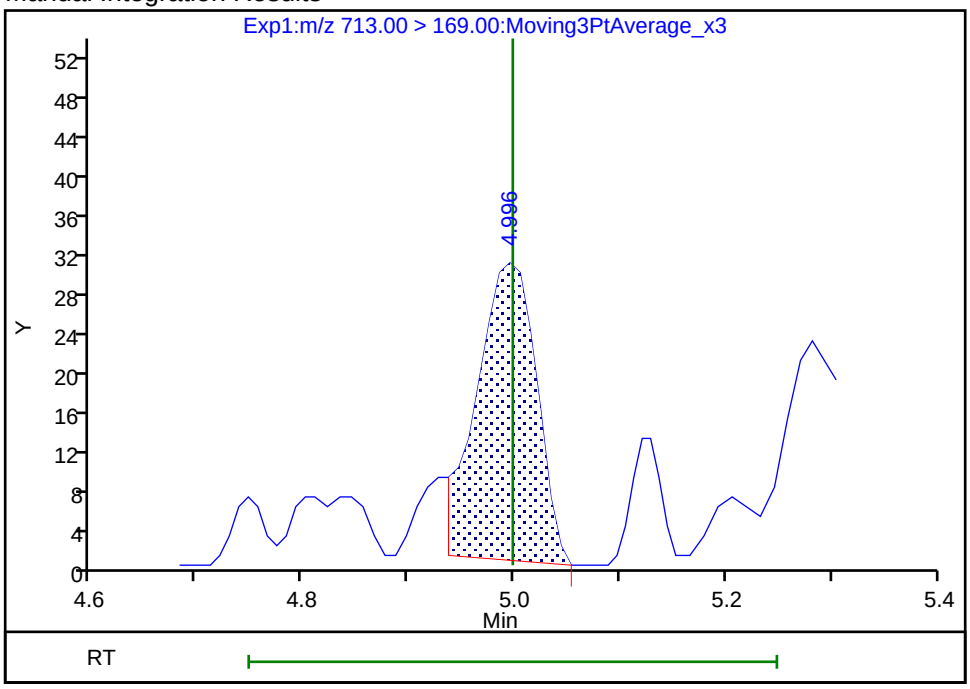
Not Detected
Expected RT: 5.00

Processing Integration Results



Manual Integration Results

RT: 5.00
Area: 119
Amount: 0.002264
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:21:26
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

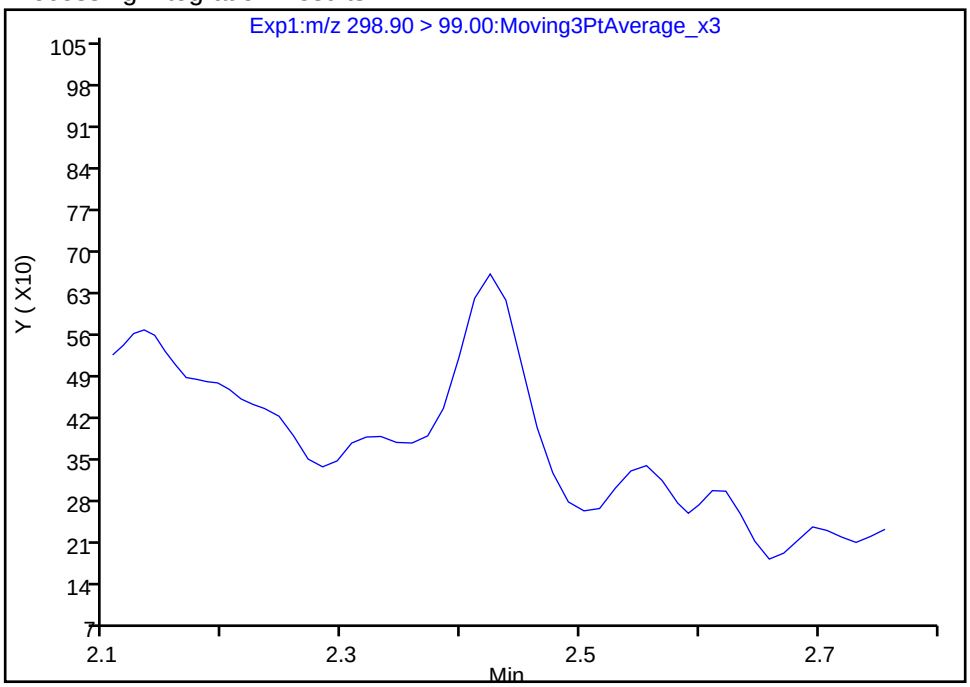
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A15.d				
Injection Date:	26-Feb-2021 14:42:25	Instrument ID:	LC812		
Lims ID:	480-181249-A-6-A	Lab Sample ID:	200-181249-6		
Client ID:	DUP-SB (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

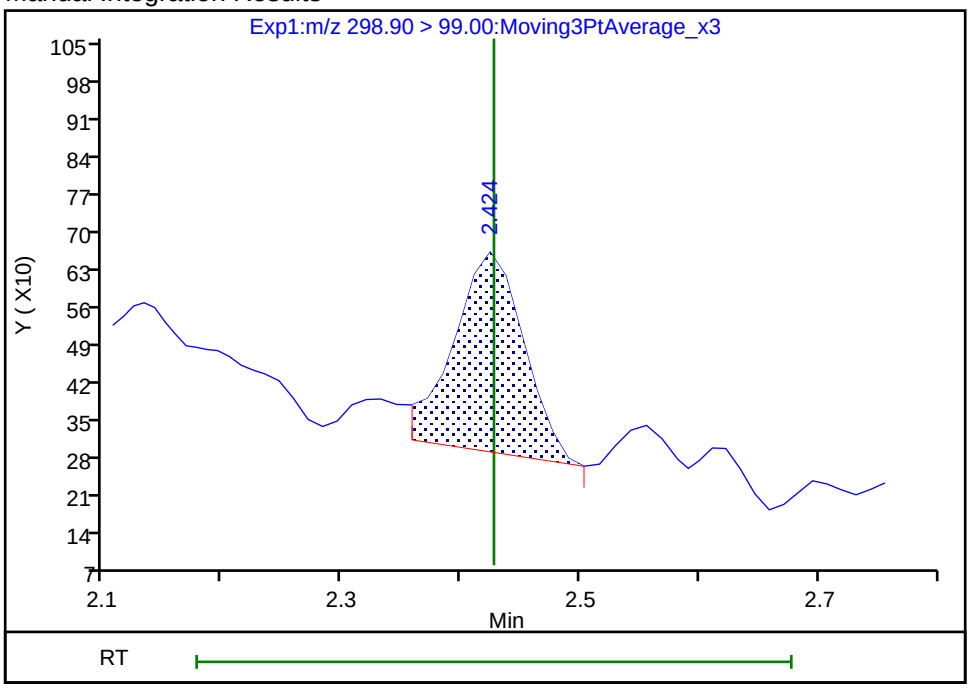
Not Detected
Expected RT: 2.43

Processing Integration Results



Manual Integration Results

RT: 2.42
Area: 1512
Amount: 0.003761
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:17:29
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

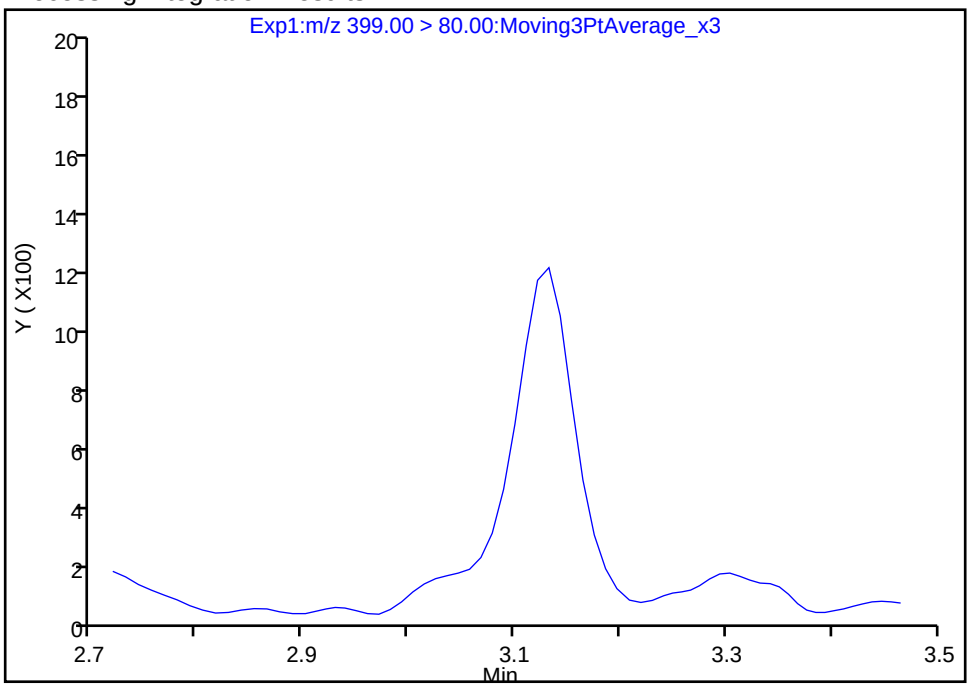
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A15.d				
Injection Date:	26-Feb-2021 14:42:25	Instrument ID:	LC812		
Lims ID:	480-181249-A-6-A	Lab Sample ID:	200-181249-6		
Client ID:	DUP-SB (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

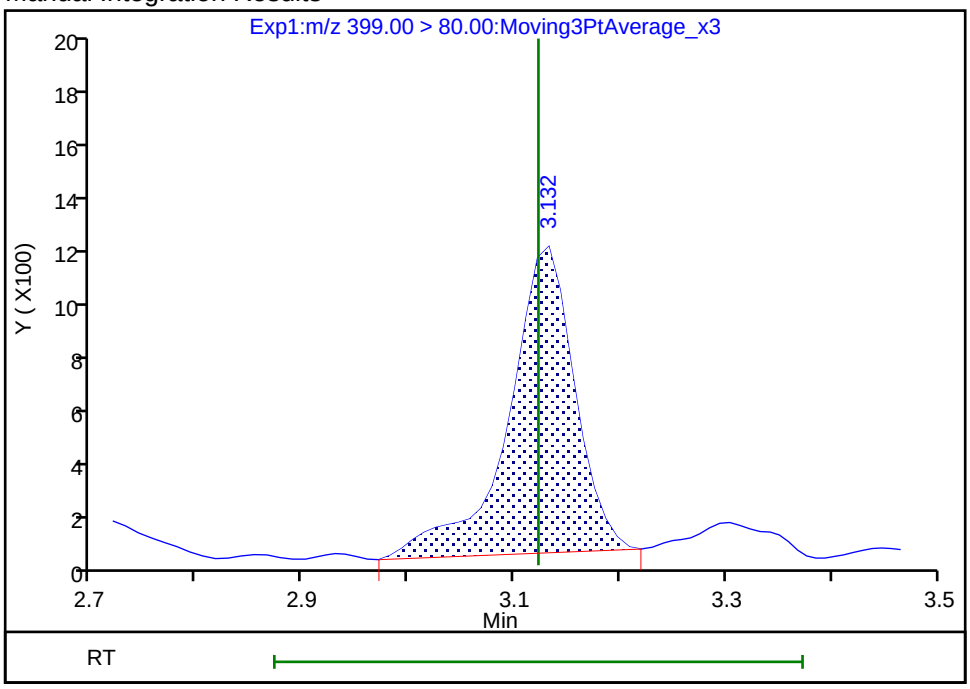
Not Detected
Expected RT: 3.12

Processing Integration Results



Manual Integration Results

RT: 3.13
Area: 5071
Amount: 0.006605
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:17:51
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

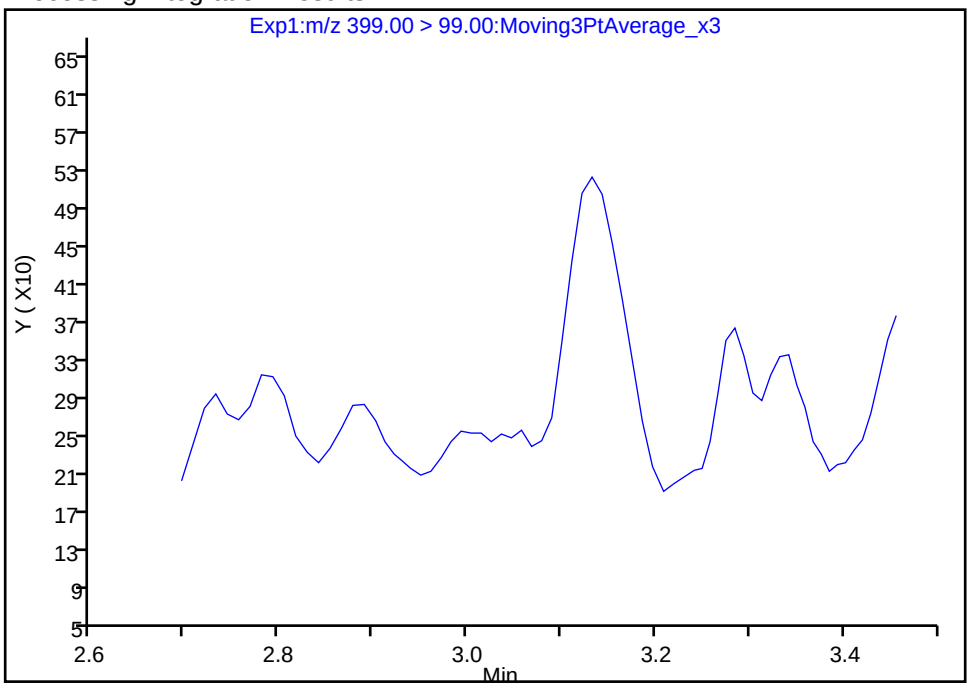
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A15.d				
Injection Date:	26-Feb-2021 14:42:25	Instrument ID:	LC812		
Lims ID:	480-181249-A-6-A	Lab Sample ID:	200-181249-6		
Client ID:	DUP-SB (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

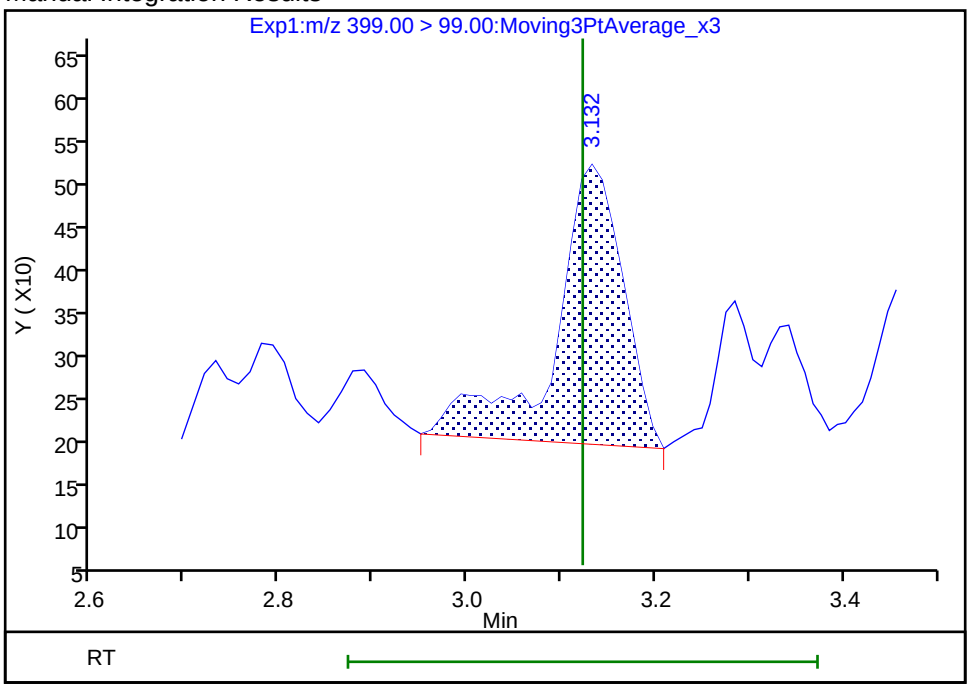
Not Detected
Expected RT: 3.12

Processing Integration Results



Manual Integration Results

RT: 3.13
Area: 1643
Amount: 0.006605
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:18:00
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

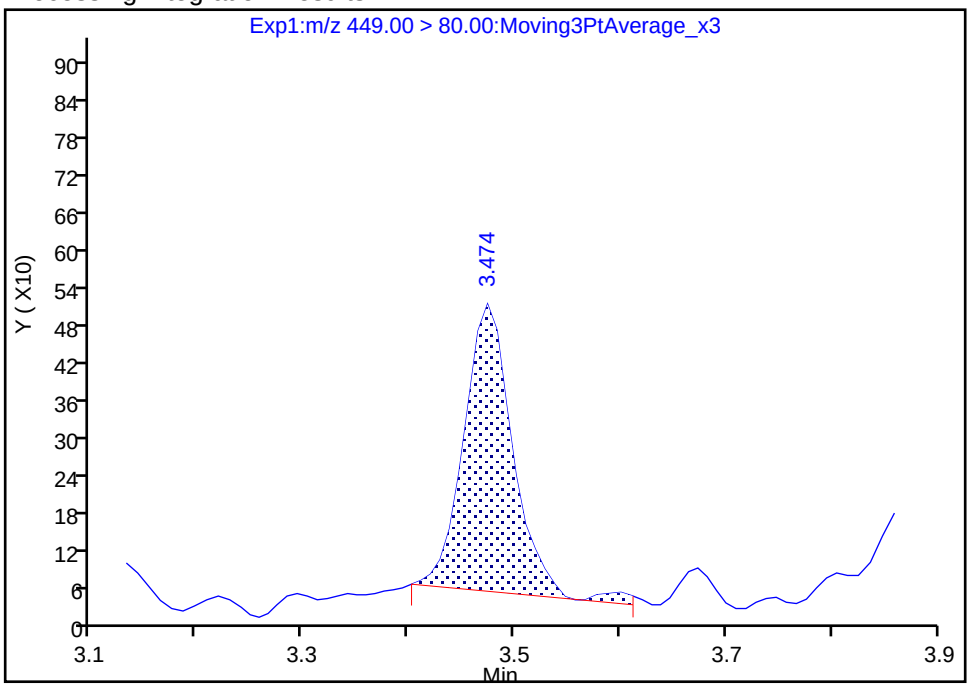
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A15.d				
Injection Date:	26-Feb-2021 14:42:25	Instrument ID:	LC812		
Lims ID:	480-181249-A-6-A	Lab Sample ID:	200-181249-6		
Client ID:	DUP-SB (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

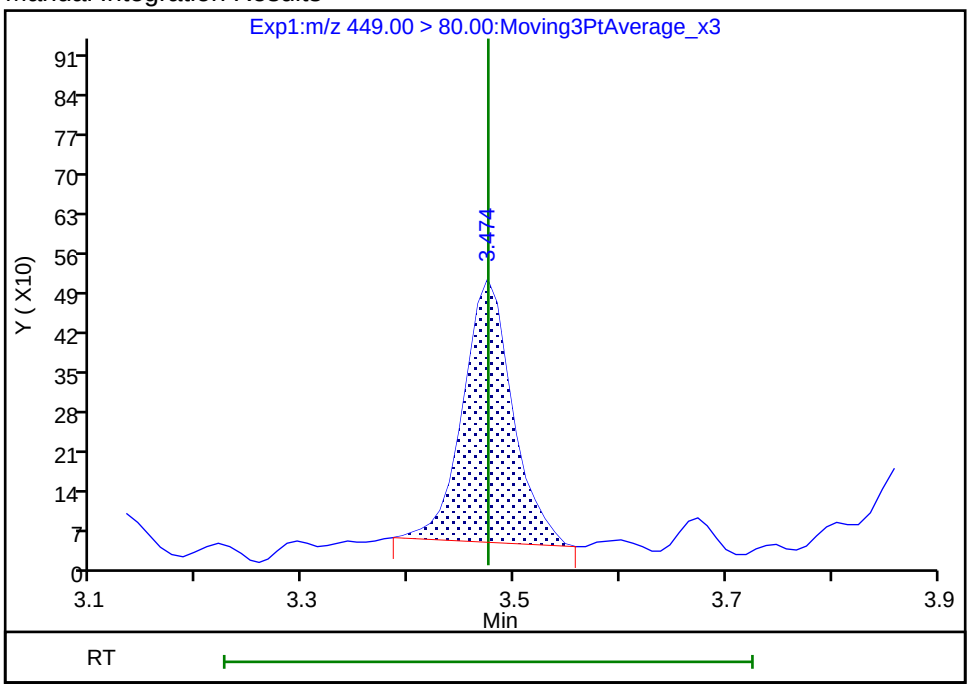
Processing Integration Results

RT: 3.47
Area: 1490
Amount: 0.002400
Amount Units: ng/ml



Manual Integration Results

RT: 3.47
Area: 1513
Amount: 0.002437
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:18:17
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

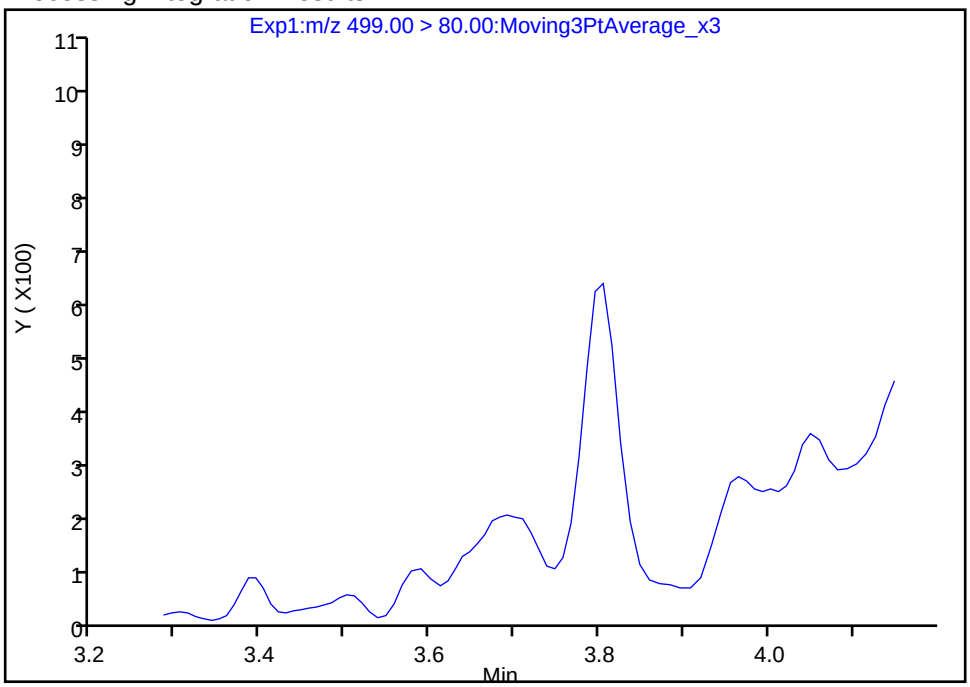
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A15.d				
Injection Date:	26-Feb-2021 14:42:25	Instrument ID:	LC812		
Lims ID:	480-181249-A-6-A	Lab Sample ID:	200-181249-6		
Client ID:	DUP-SB (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

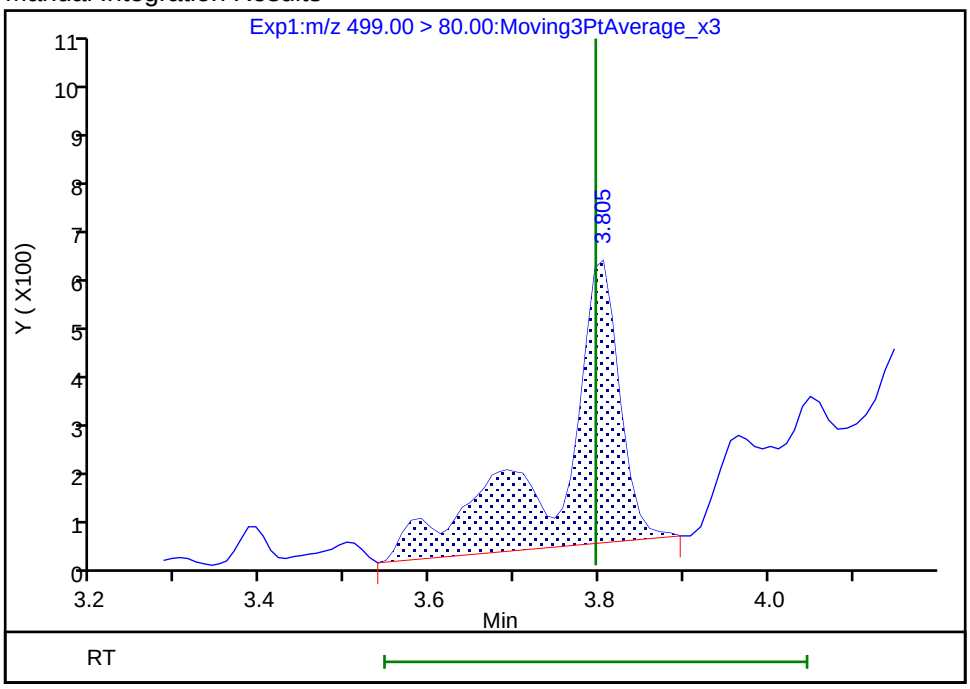
Not Detected
Expected RT: 3.80

Processing Integration Results



Manual Integration Results

RT: 3.80
Area: 3026
Amount: 0.005722
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:19:10
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

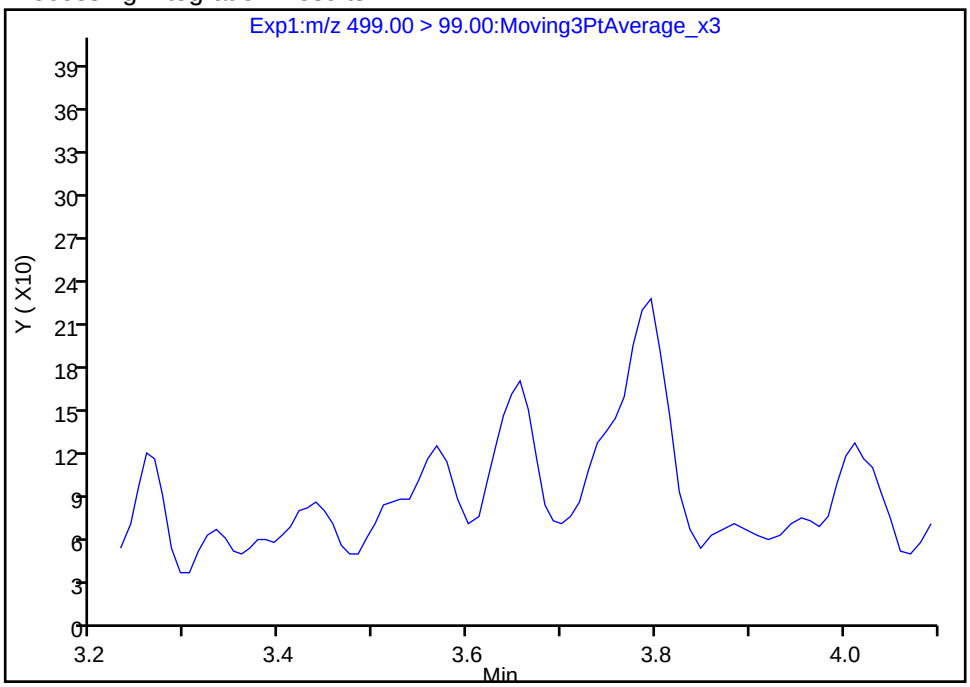
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A15.d				
Injection Date:	26-Feb-2021 14:42:25	Instrument ID:	LC812		
Lims ID:	480-181249-A-6-A	Lab Sample ID:	200-181249-6		
Client ID:	DUP-SB (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

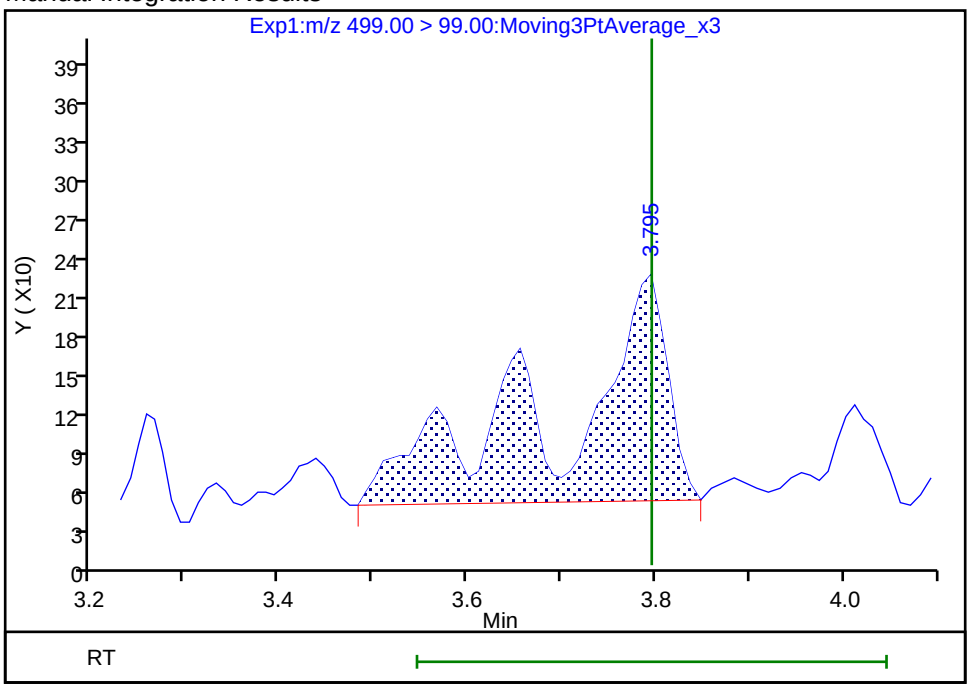
Not Detected
Expected RT: 3.80

Processing Integration Results



Manual Integration Results

RT: 3.80
Area: 1376
Amount: 0.005722
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:19:17
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

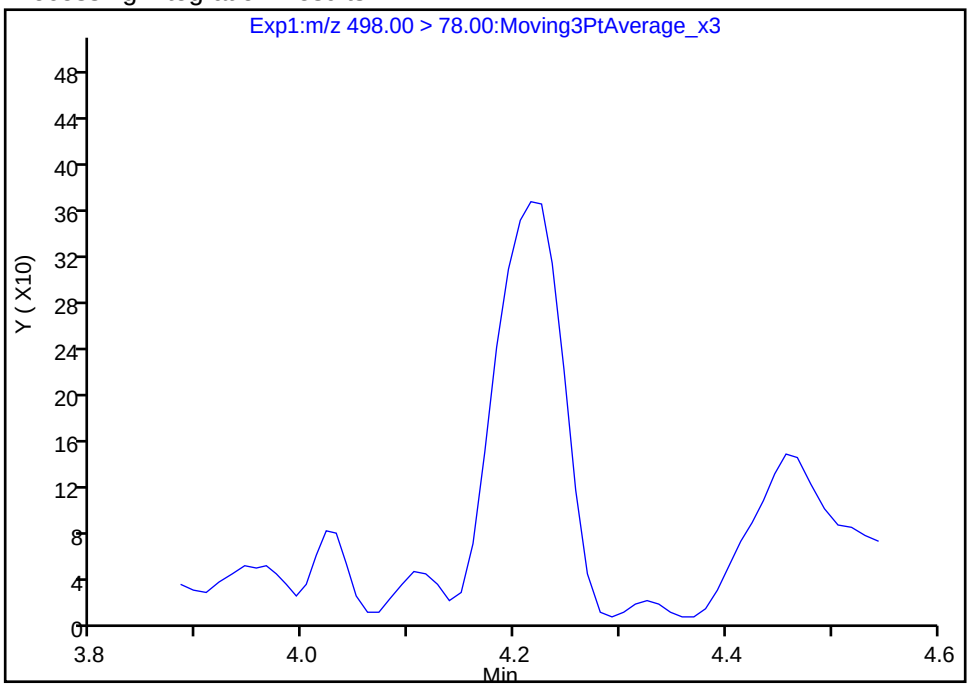
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A15.d				
Injection Date:	26-Feb-2021 14:42:25	Instrument ID:	LC812		
Lims ID:	480-181249-A-6-A	Lab Sample ID:	200-181249-6		
Client ID:	DUP-SB (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

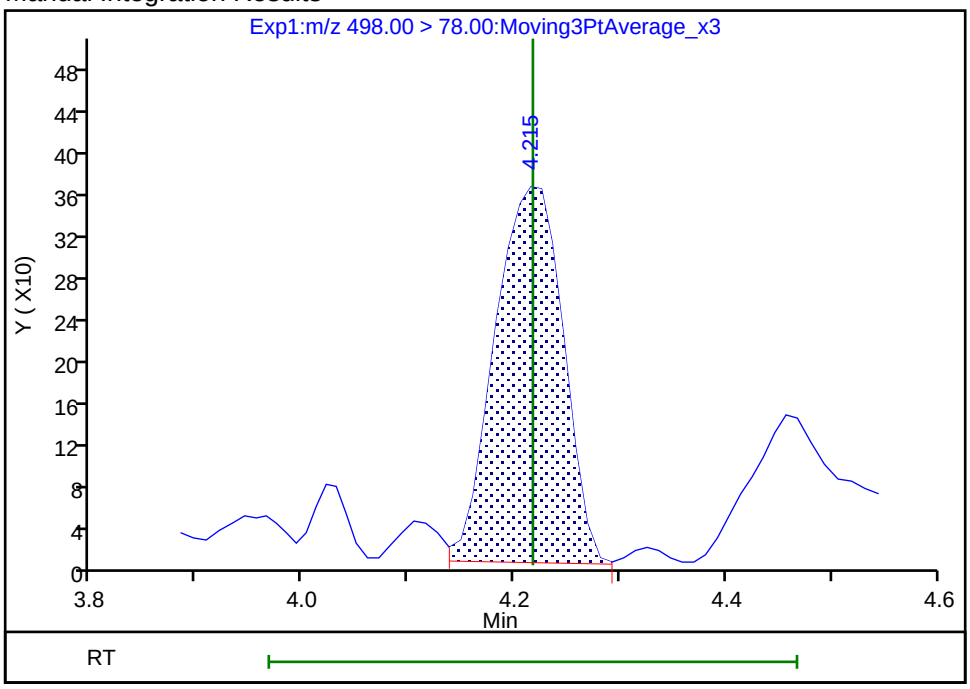
Not Detected
Expected RT: 4.22

Processing Integration Results



Manual Integration Results

RT: 4.22
Area: 1601
Amount: 0.001779
Amount Units: ng/ml



Reviewer: deannd, 01-Mar-2021 10:52:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

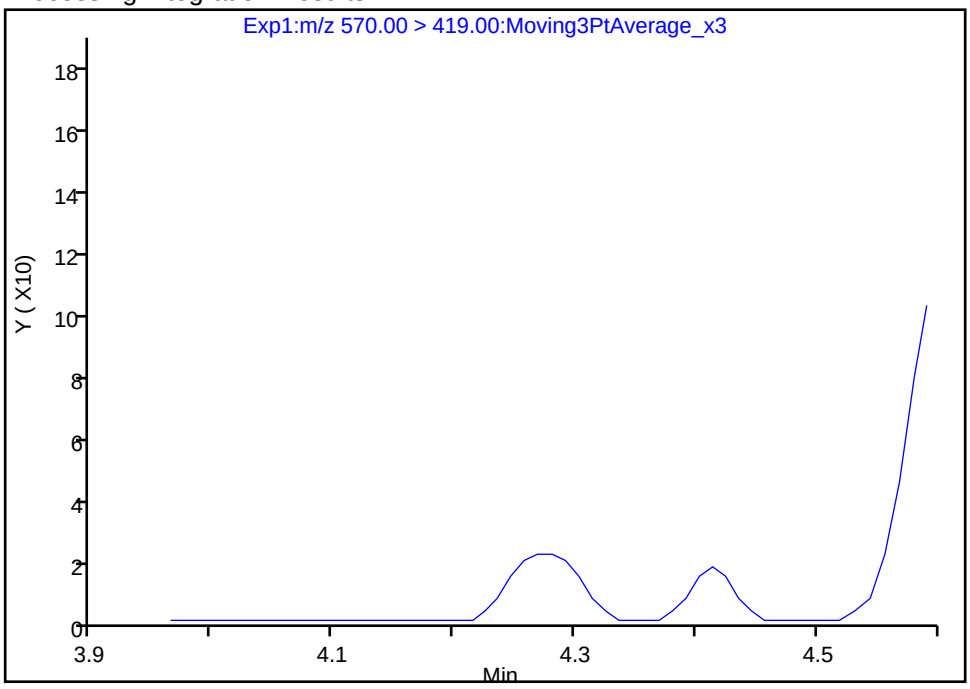
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A15.d				
Injection Date:	26-Feb-2021 14:42:25	Instrument ID:	LC812		
Lims ID:	480-181249-A-6-A	Lab Sample ID:	200-181249-6		
Client ID:	DUP-SB (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

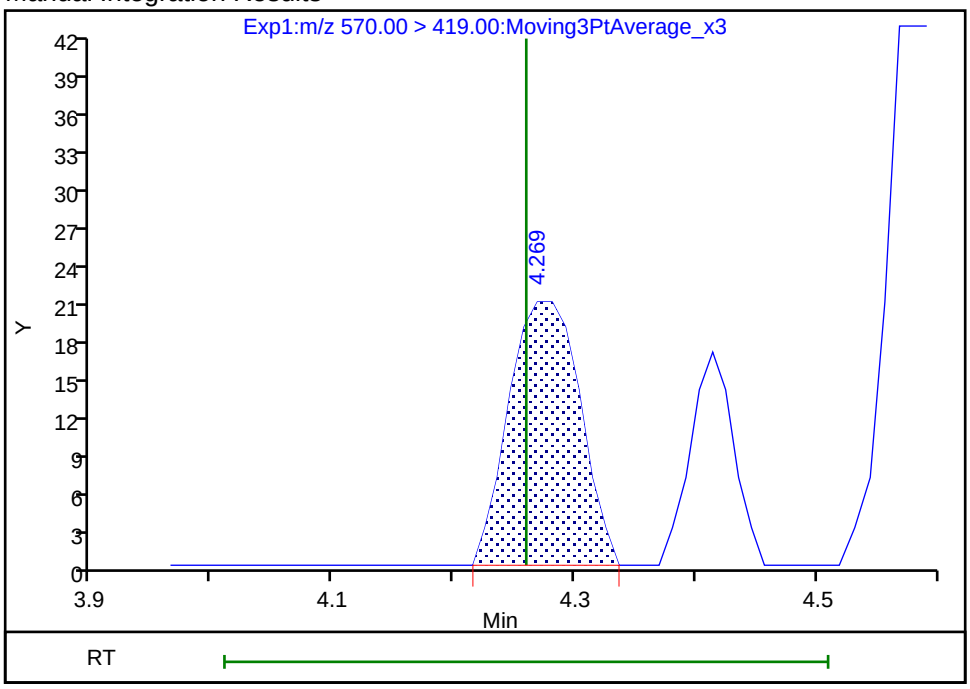
Not Detected
Expected RT: 4.26

Processing Integration Results



Manual Integration Results

RT: 4.27
Area: 86
Amount: 0.002425
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:20:25
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

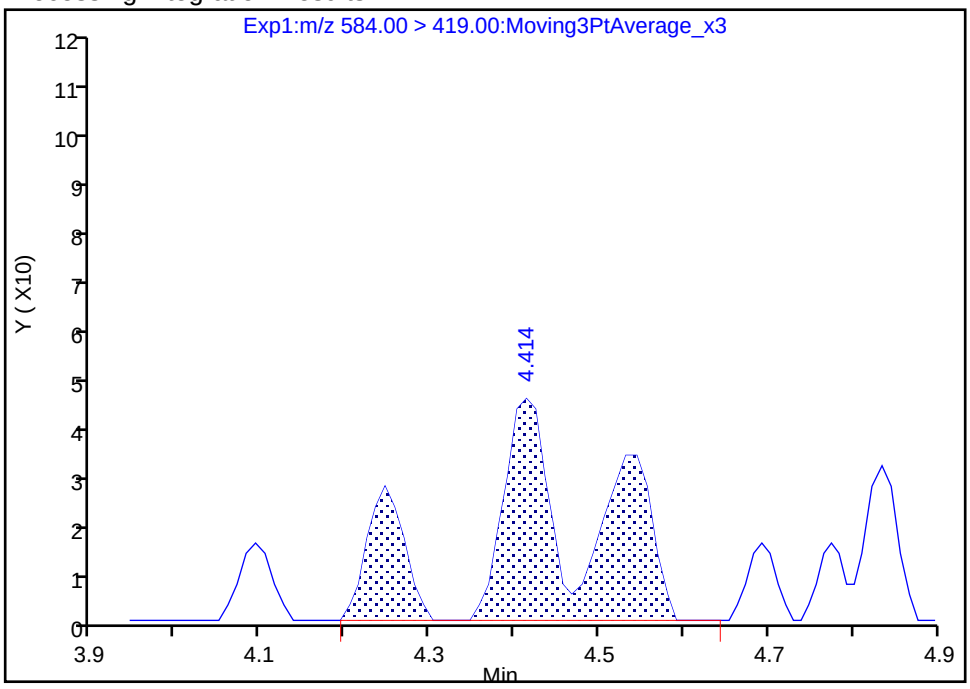
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A15.d				
Injection Date:	26-Feb-2021 14:42:25	Instrument ID:	LC812		
Lims ID:	480-181249-A-6-A	Lab Sample ID:	200-181249-6		
Client ID:	DUP-SB (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

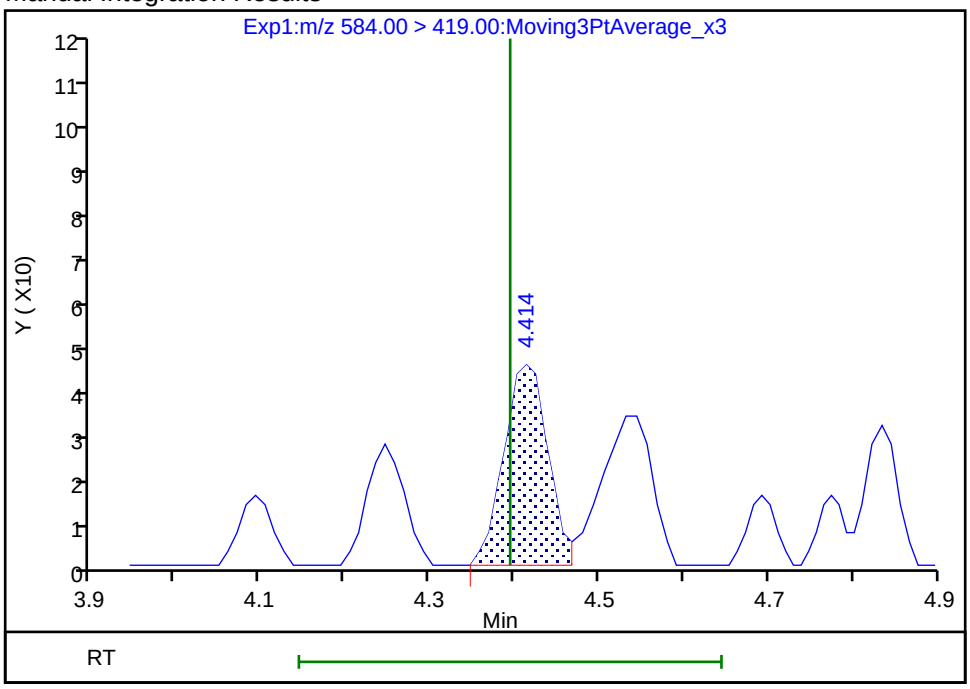
Processing Integration Results

RT: 4.41
Area: 367
Amount: 0.011261
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 154
Amount: 0.004726
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:20:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

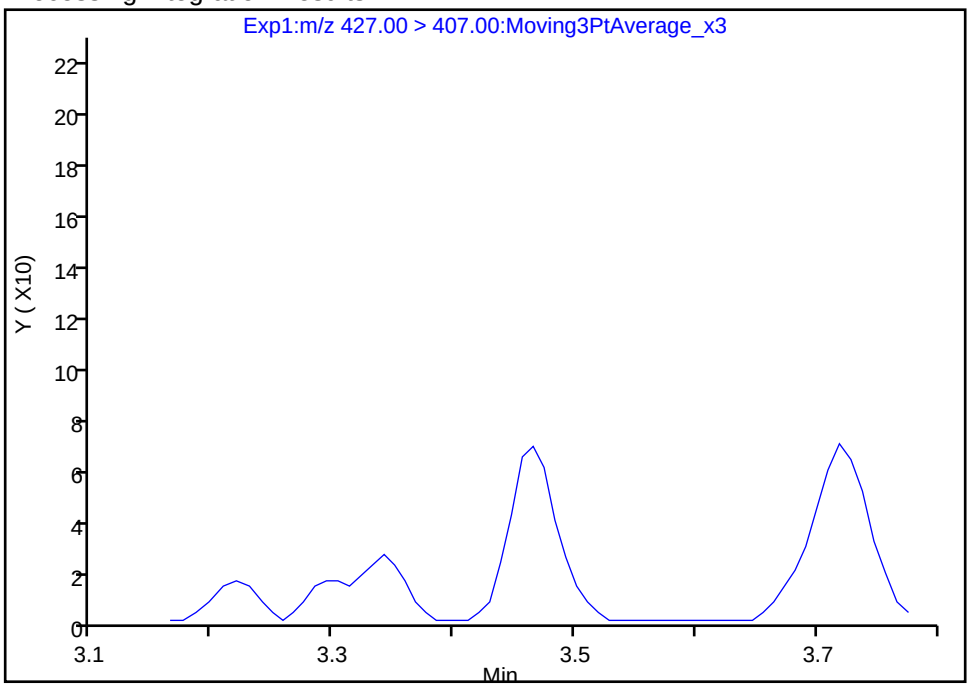
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A15.d				
Injection Date:	26-Feb-2021 14:42:25	Instrument ID:	LC812		
Lims ID:	480-181249-A-6-A	Lab Sample ID:	200-181249-6		
Client ID:	DUP-SB (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

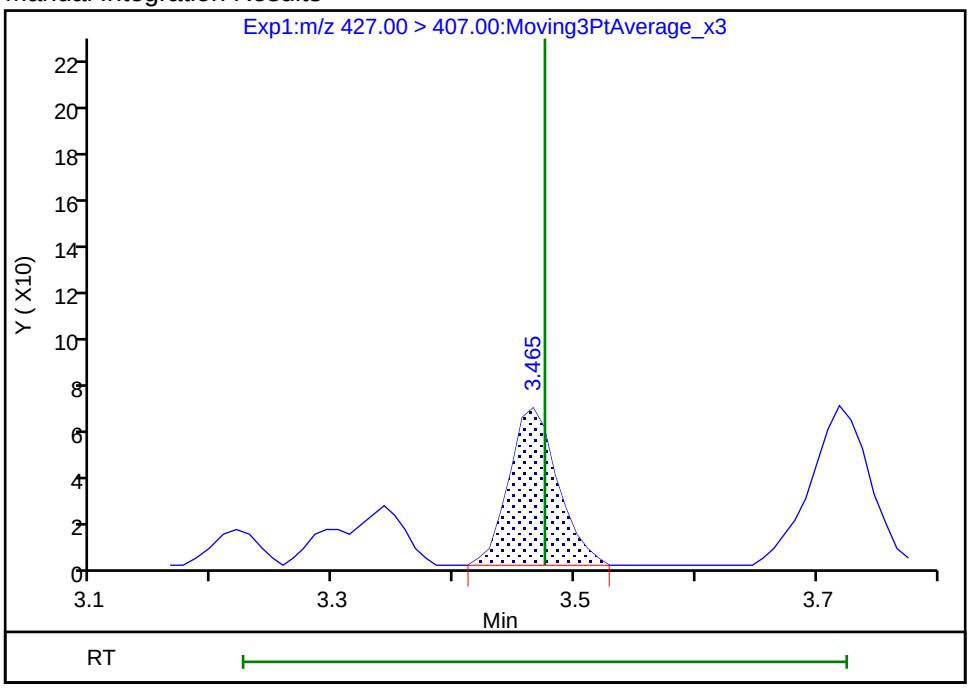
Processing Integration Results

Not Detected
Expected RT: 3.48



Manual Integration Results

RT: 3.47
Area: 185
Amount: 0.002003
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:18:37
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

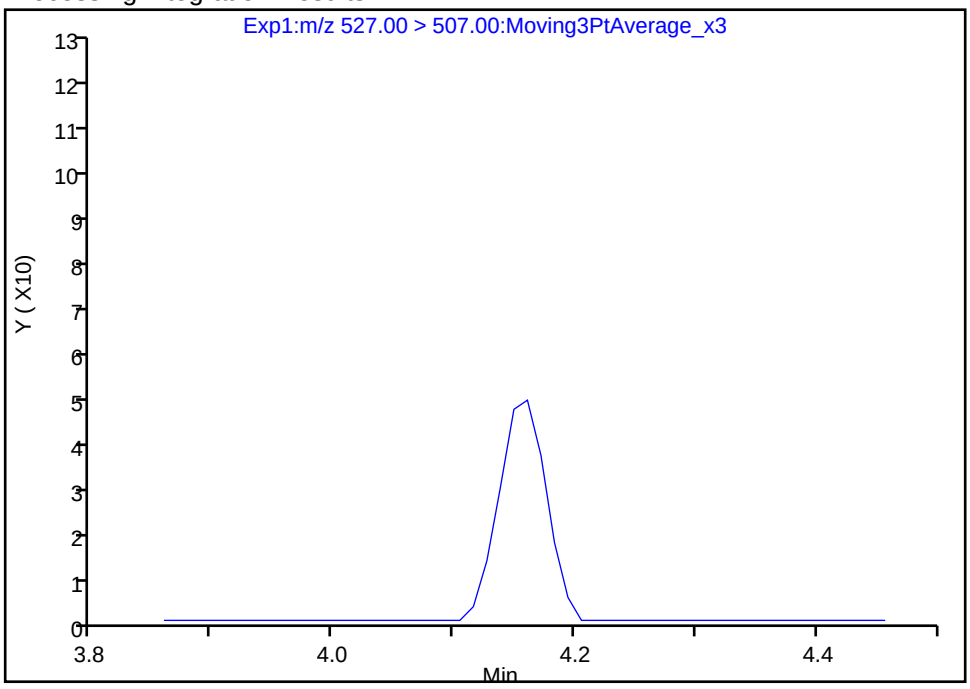
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A15.d				
Injection Date:	26-Feb-2021 14:42:25	Instrument ID:	LC812		
Lims ID:	480-181249-A-6-A	Lab Sample ID:	200-181249-6		
Client ID:	DUP-SB (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

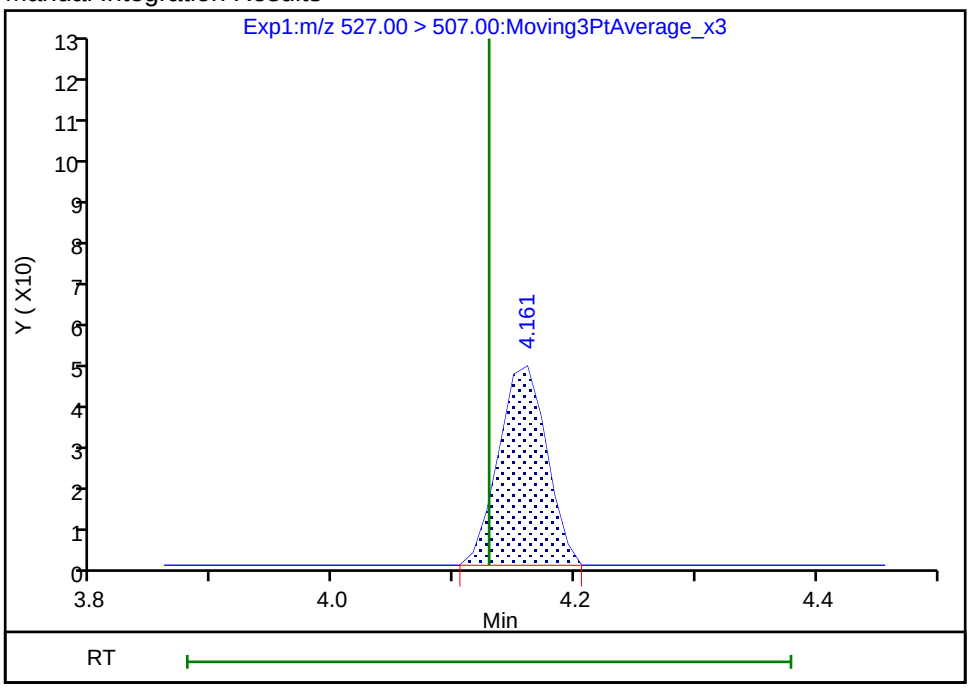
Not Detected
Expected RT: 4.13

Processing Integration Results



Manual Integration Results

RT: 4.16
Area: 132
Amount: 0.002356
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:20:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

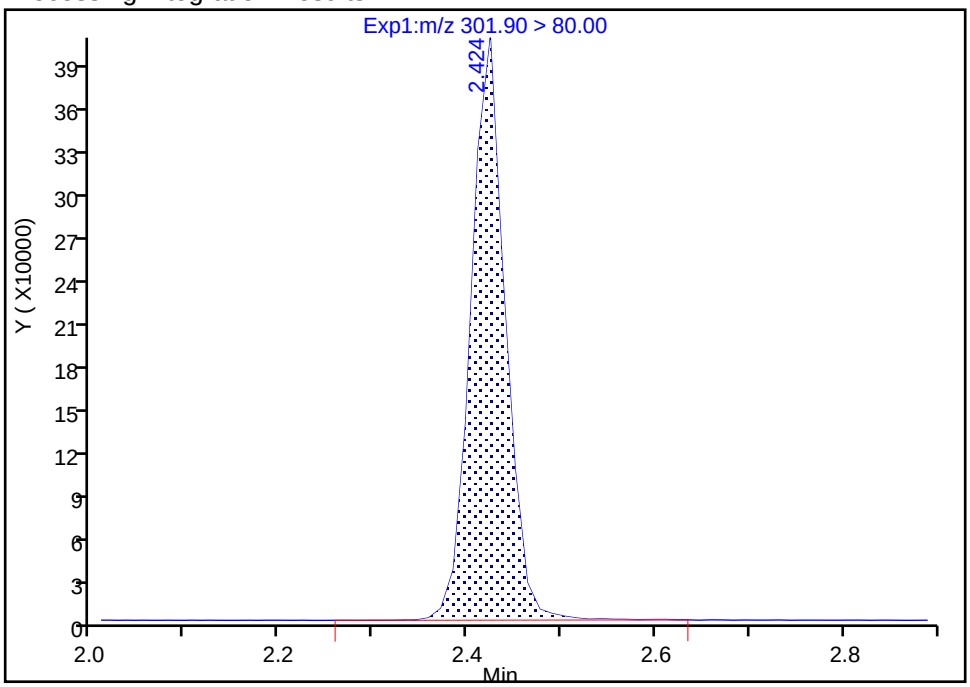
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A15.d				
Injection Date:	26-Feb-2021 14:42:25	Instrument ID:	LC812		
Lims ID:	480-181249-A-6-A	Lab Sample ID:	200-181249-6		
Client ID:	DUP-SB (13-15)				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

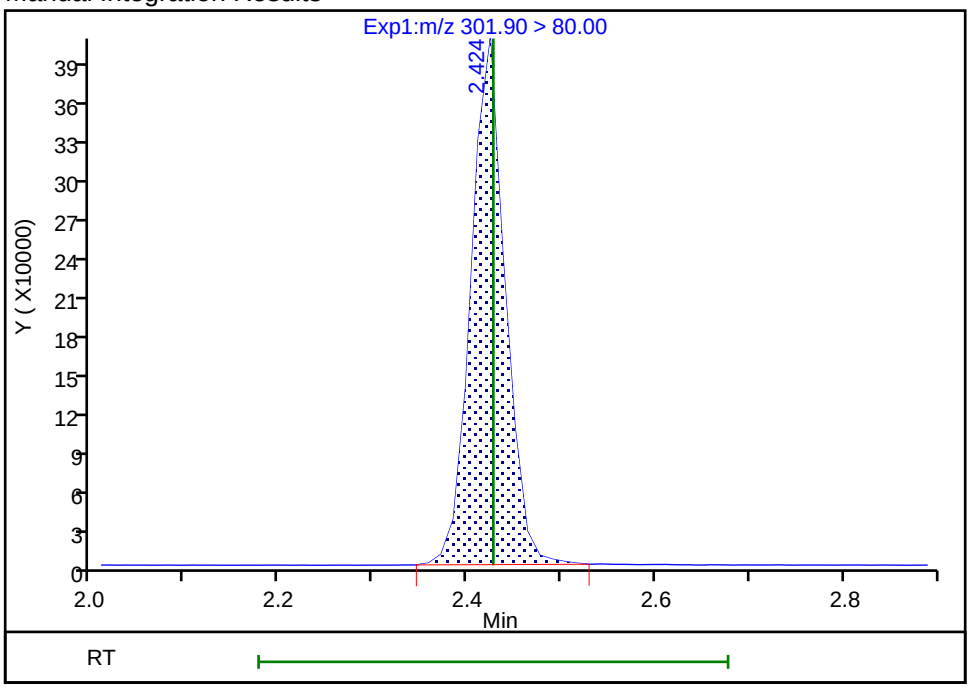
Processing Integration Results

RT: 2.42
Area: 1034786
Amount: 1.152813
Amount Units: ng/ml



Manual Integration Results

RT: 2.42
Area: 1028681
Amount: 1.146012
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:16:41

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1 Analy Batch No.: 162365

SDG No.:

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/22/2020 12:48 Calibration End Date: 12/22/2020 13:29 Calibration ID: 44876

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-162365/8	PA201222ICAL008.d
Level 2	IC 200-162365/9	PA201222ICAL009.d
Level 3	IC 200-162365/10	PA201222ICAL010.d
Level 4	ICIS 200-162365/11	PA201222ICAL011.d
Level 5	IC 200-162365/12	PA201222ICAL012.d
Level 6	IC 200-162365/13	PA201222ICAL013.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluorobutanoic acid (PFBA)	1.2189 0.9212	1.0687	0.9486	0.9302	0.9245	AveID		1.0020				12.0		35.0			
Perfluoropentanoic acid (PFPeA)	1.2359 1.0381	1.2067	1.0701	1.0593	1.0336	AveID		1.1073				8.1		35.0			
Perfluorobutanesulfonic acid (PFBS)	1.2430 1.0810	1.2027	1.1143	1.0713	1.0755	AveID		1.1313				6.5		35.0			
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	2.1097 1.7815	1.7396	1.8012	1.7853	1.7852	AveID		1.8337				7.5		50.0			
Perfluorohexanoic acid (PFHxA)	1.2889 1.0559	1.0893	1.0241	1.0681	1.0283	AveID		1.0924				9.1		35.0			
Perfluoropentanesulfonic acid	1.3317 1.2762	1.3900	1.3228	1.3125	1.2408	AveID		1.3123				3.9		50.0			
HFPO-DA	1.6029 1.5130	1.4395	1.2239	1.2678	1.2653	AveID		1.3854				11.2		35.0			
Perfluorohexanesulfonic acid (PFHxS)	1.3163 1.0823	1.2845	1.1737	1.1347	1.0794	AveID		1.1785				8.6		35.0			
Perfluoroheptanoic acid (PFHpA)	1.1499 1.0050	1.2248	1.0199	1.0649	1.0888	AveID		1.0922				7.6		35.0			
DONA	3.5199 3.1986	3.4097	3.3571	3.1992	3.4069	AveID		3.3485				3.8		50.0			
Perfluoroheptanesulfonic Acid (PFHpS)	1.4516 1.2663	1.4209	1.3827	1.2969	1.2825	AveID		1.3502				5.8		50.0			
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	1.1353 1.1108	1.0938	1.0521	1.1805	1.1016	AveID		1.1123				3.9		35.0			
Perfluorooctanoic acid (PFOA)	1.1405 1.0797	1.1163	1.0725	1.0647	1.0301	AveID		1.0840				3.6		35.0			
Perfluorooctanesulfonic acid (PFOS)	1.2730 1.0861	1.2252	1.1557	1.0760	1.0845	AveID		1.1501				7.2		35.0			
Perfluorononanoic acid (PFNA)	1.2720 1.0506	1.1314	1.0797	1.0688	1.0387	AveID		1.1069				7.9		35.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1 Analy Batch No.: 162365

SDG No.:

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/22/2020 12:48 Calibration End Date: 12/22/2020 13:29 Calibration ID: 44876

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.3764 1.2216	1.2415	1.2991	1.2610	1.2996	AveID		1.2832				4.3		50.0			
Perfluorononanesulfonic acid	0.9575 0.8062	0.9122	0.8952	0.7667	0.8107	AveID		0.8581				8.6		50.0			
Perfluorodecanoic acid (PFDA)	1.0684 1.0125	1.0468	1.0595	1.0466	0.9494	AveID		1.0305				4.3		35.0			
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	0.6644 0.6523	0.7808	0.6633	0.6388	0.6810	AveID		0.6801				7.5		35.0			
Perfluorooctanesulfonamide (FOSA)	0.9663 0.9744	1.0478	0.9946	0.9970	1.0328	AveID		1.0021				3.2		35.0			
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.8884 0.9227	0.9333	0.7706	0.9010	0.9023	AveID		0.8864				6.7		35.0			
Perfluorodecanesulfonic acid (PFDS)	0.7308 0.6500	0.6951	0.6680	0.6763	0.6843	AveID		0.6841				4.0		50.0			
Perfluoroundecanoic acid (PFUnA)	0.9653 0.9963	1.0681	1.0534	1.0365	0.9995	AveID		1.0198				3.8		35.0			
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.0840 0.8490	0.9020	0.8715	0.8865	0.9612	AveID		0.9257				9.3		35.0			
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	1.3680 1.2897	1.3189	1.3742	1.3366	1.3013	AveID		1.3315				2.6		50.0			
Perfluorododecanoic acid (PFDoA)	1.1939 1.0908	1.1709	1.0287	1.0643	1.0505	AveID		1.0999				6.1		35.0			
10:2 FTS	0.2963 0.3499	0.3593	0.3884	0.3534	0.3536	AveID		0.3501				8.5		50.0			
Perfluorododecanesulfonic acid (PFDoS)	0.3056 0.2278	0.2625	0.2486	0.2372	0.2284	AveID		0.2517				11.7		50.0			
Perfluorotridecanoic acid (PFTriA)	0.9603 0.8509	0.9077	0.8822	0.8740	0.8804	AveID		0.8926				4.2		50.0			
Perfluorotetradecanoic acid (PFTeA)	0.2058 0.1744	0.1755	0.1790	0.1993	0.1787	AveID		0.1855				7.3		35.0			
Perfluoro-n-hexadecanoic acid (PFHxDA)	1.1808 0.9325	1.0946	0.9853	0.9326	0.9374	L1ID	0.0142	0.9312							1.0000		0.9900
Perfluoro-n-octadecanoic acid (PFODA)	0.9585 0.9072	0.8914	0.8714	0.8948	0.8753	AveID		0.8998				3.5		50.0			
13C4 PFBA	1.3516 1.4010	1.2562	1.3934	1.3322	1.3257	Ave		1.3433				3.9		30.0			
13C5 PFPeA	1.0050 0.9950	0.9334	0.9917	0.9482	0.9528	Ave		0.9710				3.1		30.0			
13C3 PFBS	1.2595 1.3474	1.2450	1.2928	1.2842	1.2377	Ave		1.2778				3.2		30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1 Analy Batch No.: 162365

SDG No.:

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/22/2020 12:48 Calibration End Date: 12/22/2020 13:29 Calibration ID: 44876

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
M2-4:2 FTS	0.1068 0.1107	0.1097	0.1066	0.1039	0.1020	Ave		0.1066				3.1		30.0			
13C2 PFHxA	1.0392 1.0173	0.9943	1.0464	1.0067	1.0023	Ave		1.0177				2.1		30.0			
13C3 HFPO-DA	0.1775 0.1641	0.1678	0.2001	0.1881	0.1776	Ave		0.1792				7.4		30.0			
18O2 PFHxS	0.9945 0.9952	0.9157	0.9459	0.9138	0.9414	Ave		0.9511				3.8		30.0			
13C4 PFHpA	0.9758 1.0180	0.9235	1.0338	0.9550	0.9390	Ave		0.9742				4.5		30.0			
M2-6:2 FTS	0.1210 0.1191	0.1173	0.1250	0.1147	0.1152	Ave		0.1187				3.3		30.0			
13C4 PFOA	1.0167 0.9862	0.9977	0.9929	0.9770	0.9669	Ave		0.9896				1.7		30.0			
13C4 PFOS	0.6612 0.6787	0.6466	0.6579	0.6518	0.6206	Ave		0.6528				2.9		30.0			
13C5 PFNA	0.9008 0.8670	0.8743	0.8943	0.8543	0.8475	Ave		0.8730				2.4		30.0			
13C2 PFDA	0.8480 0.8214	0.8392	0.8359	0.8118	0.8517	Ave		0.8346				1.8		30.0			
M2-8:2 FTS	0.1285 0.1295	0.1188	0.1212	0.1180	0.1188	Ave		0.1225				4.2		30.0			
13C8 FOSA	1.2313 1.3053	1.2240	1.2319	1.2023	1.1664	Ave		1.2269				3.7		30.0			
d3-NMeFOSAA	0.0571 0.0621	0.0633	0.0629	0.0593	0.0586	Ave		0.0605				4.3		30.0			
13C2 PFUnA	0.7235 0.6928	0.6824	0.6717	0.6694	0.6738	Ave		0.6856				3.0		30.0			
d5-NEtFOSAA	0.0562 0.0615	0.0603	0.0604	0.0567	0.0560	Ave		0.0585				4.2		30.0			
13C2 PFDoA	0.7321 0.7422	0.7045	0.7438	0.7209	0.6991	Ave		0.7238				2.6		30.0			
13C2 PFTeDA	0.5271 0.5540	0.5419	0.5559	0.5063	0.5266	Ave		0.5353				3.5		30.0			
13C2 PFHxDA	0.5646 0.5903	0.5755	0.5757	0.5580	0.5667	Ave		0.5718				2.0		30.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1 Analy Batch No.: 162365

SDG No.:

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/22/2020 12:48 Calibration End Date: 12/22/2020 13:29 Calibration ID: 44876

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-162365/8	PA201222ICAL008.d
Level 2	IC 200-162365/9	PA201222ICAL009.d
Level 3	IC 200-162365/10	PA201222ICAL010.d
Level 4	ICIS 200-162365/11	PA201222ICAL011.d
Level 5	IC 200-162365/12	PA201222ICAL012.d
Level 6	IC 200-162365/13	PA201222ICAL013.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Perfluorobutanoic acid (PFBA)		AveID	57629 8790651	118541	456581	881958	2187518	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluoropentanoic acid (PFPeA)		AveID	43447 7036279	99455	366588	714864	1757757	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorobutanesulfonic acid (PFBS)		AveID	48410 8770776	116878	439919	865582	2100213	0.0442 8.84	0.0884	0.442	0.884	2.21
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)		AveID	7359 1254443	15740	61951	123314	303490	0.0467 9.34	0.0934	0.467	0.934	2.34
Perfluorohexanoic acid (PFHxA)		AveID	46854 7316861	95637	370199	765249	1839714	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluoropentanesulfonic acid		AveID	43453 8114898	105420	405410	800668	1955608	0.0469 9.38	0.0938	0.469	0.938	2.35
HFPO-DA		AveID	9952 1690983	21331	84587	169678	401085	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorohexanesulfonic acid (PFHxS)		AveID	41668 6676661	94508	348983	671571	1650425	0.0455 9.10	0.0910	0.455	0.910	2.28
Perfluoroheptanoic acid (PFHpA)		AveID	39251 6968995	99874	364247	723792	1824848	0.0500 10.0	0.100	0.500	1.00	2.50
DONA		AveID	76688 13928638	183369	718739	1397912	3554808	0.0471 9.42	0.0942	0.471	0.942	2.36
Perfluoroheptanesulfonic Acid (PFHpS)		AveID	31963 5572962	77228	299175	572696	1352437	0.0476 9.52	0.0952	0.476	0.952	2.38
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)		AveID	4554 854196	10738	43065	91369	214702	0.0474 9.48	0.0948	0.474	0.948	2.37
Perfluorooctanoic acid (PFOA)		AveID	40563 7252703	98345	367859	740338	1777820	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorooctanesulfonic acid (PFOS)		AveID	27324 4659375	64913	243758	463174	1114751	0.0464 9.28	0.0928	0.464	0.928	2.32

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1 Analy Batch No.: 162365

SDG No.:

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/22/2020 12:48 Calibration End Date: 12/22/2020 13:29 Calibration ID: 44876

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Perfluorononanoic acid (PFNA)		AveID	40080 6204125	87340	333548	649860	1571226	0.0500 10.0	0.100	0.500	1.00	2.50
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid		AveID	29669 5263362	66060	275177	545155	1341633	0.0466 9.32	0.0932	0.466	0.932	2.33
Perfluorononanesulfonic acid		AveID	21260 3577811	49994	195317	341392	862047	0.0480 9.60	0.0960	0.480	0.960	2.40
Perfluorodecanoic acid (PFDA)		AveID	31691 5664507	77566	305912	604674	1443205	0.0500 10.0	0.100	0.500	1.00	2.50
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)		AveID	2861 551191	7849	26606	51395	138394	0.0479 9.58	0.0958	0.479	0.958	2.40
Perfluorooctanesulfonamide (FOSA)		AveID	41621 8663983	113239	423265	853072	2150057	0.0500 10.0	0.100	0.500	1.00	2.50
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)		AveID	1773 390016	5218	16744	38043	94320	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorodecanesulfonic acid (PFDS)		AveID	16293 2896712	38256	146348	302428	730691	0.0482 9.64	0.0964	0.482	0.964	2.41
Perfluoroundecanoic acid (PFUnA)		AveID	24431 4701521	64357	244409	493796	1201956	0.0500 10.0	0.100	0.500	1.00	2.50
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)		AveID	2130 355914	4802	18172	35802	96074	0.0500 10.0	0.100	0.500	1.00	2.50
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid		AveID	29806 5616158	70930	294213	584047	1357763	0.0471 9.42	0.0942	0.471	0.942	2.36
Perfluorododecanoic acid (PFDoA)		AveID	30573 5514700	72835	264312	546074	1310849	0.0500 10.0	0.100	0.500	1.00	2.50
10:2 FTS		AveID	1284 297521	3634	15677	28609	72297	0.0482 9.64	0.0964	0.482	0.964	2.41
Perfluorododecanesulfonic acid (PFDoS)		AveID	6843 1019532	14504	54696	106502	244860	0.0484 9.68	0.0968	0.484	0.968	2.42
Perfluorotridecanoic acid (PFTriA)		AveID	24591 4302065	56462	226665	448445	1098559	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorotetradecanoic acid (PFTeA)		AveID	3795 657979	8395	34379	71818	167971	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluoro-n-hexadecanoic acid (PFHxDA)		L1ID	23322 3749492	55625	195955	370408	948058	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluoro-n-octadecanoic acid (PFODA)		AveID	18931	45299	173296	355381	885277	0.0500	0.100	0.500	1.00	2.50

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1 Analy Batch No.: 162365

SDG No.:

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/22/2020 12:48 Calibration End Date: 12/22/2020 13:29 Calibration ID: 44876

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			3647983					10.0				
13C4 PFBA	13PFOA	Ave	1181985 1192876	1386458	1203352	1185176	1183081	1.25 1.25	1.25	1.25	1.25	1.25
13C5 PFPeA	13PFOA	Ave	878850 847223	1030251	856461	843580	850273	1.25 1.25	1.25	1.25	1.25	1.25
13C3 PFBS	13PFOA	Ave	1024342 1066974	1277928	1038343	1062494	1027240	1.16 1.16	1.16	1.16	1.16	1.16
M2-4:2 FTS	13PFOA	Ave	87206 88021	113101	85984	86339	85003	1.17 1.17	1.17	1.17	1.17	1.17
13C2 PFHxA	13PFOA	Ave	908776 866171	1097468	903699	895585	894513	1.25 1.25	1.25	1.25	1.25	1.25
13C3 HFPO-DA	13PFOA	Ave	155222 139707	185233	172775	167297	158496	1.25 1.25	1.25	1.25	1.25	1.25
18O2 PFHxS	13PFOA	Ave	822695 801639	956077	772740	769056	794776	1.18 1.18	1.18	1.18	1.18	1.18
13C4 PFHpA	13PFOA	Ave	853376 866766	1019298	892830	849594	838035	1.25 1.25	1.25	1.25	1.25	1.25
M2-6:2 FTS	13PFOA	Ave	100493 96331	122975	102545	96952	97655	1.19 1.19	1.19	1.19	1.19	1.19
13C4 PFOA	13PFOA	Ave	889146 839703	1101215	857479	869201	862938	1.25 1.25	1.25	1.25	1.25	1.25
13C4 PFOS	13PFOA	Ave	552776 552420	682230	543196	554310	529467	1.20 1.20	1.20	1.20	1.20	1.20
13C5 PFNA	13PFOA	Ave	787744 738168	964938	772347	760016	756323	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFDA	13PFOA	Ave	741582 699346	926205	721858	722168	760056	1.25 1.25	1.25	1.25	1.25	1.25
M2-8:2 FTS	13PFOA	Ave	107657 105624	125650	100274	100569	101608	1.20 1.20	1.20	1.20	1.20	1.20

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1 Analy Batch No.: 162365

SDG No.:

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/22/2020 12:48 Calibration End Date: 12/22/2020 13:29 Calibration ID: 44876

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
13C8 FOSA	13PFOA	Ave	1076815 1111429	1350960	1063884	1069567	1040920	1.25 1.25	1.25	1.25	1.25	1.25
d3-NMeFOSAA	13PFOA	Ave	49895 52838	69887	54321	52781	52266	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFUnA	13PFOA	Ave	632709 589898	753171	580063	595523	601281	1.25 1.25	1.25	1.25	1.25	1.25
d5-NEtFOSAA	13PFOA	Ave	49123 52405	66544	52130	50481	49976	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFDoA	13PFOA	Ave	640188 631964	777582	642314	641373	623891	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFTeDA	13PFOA	Ave	460978 471704	598063	480039	450404	469963	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFHxDA	13PFOA	Ave	493765 502634	635237	497203	496455	505699	1.25 1.25	1.25	1.25	1.25	1.25

Curve Type Legend:

Ave = Average ISTD
AveID = Average isotope dilution
L1ID = Linear 1/conc IsoDil

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL008.d
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 22-Dec-2020 12:48:13 ALS Bottle#: 2 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 200-0044184-008 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812
Sublist: chrom-PFC_LC812*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 22-Dec-2020 14:39:20 Calib Date: 22-Dec-2020 13:29:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1625

First Level Reviewer: deannd Date: 22-Dec-2020 13:44:52
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.082	2.091	-0.009	0.596	1181985	1.26		101	10169	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.091	2.091	0.0	1.004	57629	0.0608		122	6.6	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.401	2.414	-0.013	0.687	878850	1.29		103	2743	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.401	2.414	-0.013	1.000	43447	0.0558		112	1.8	
D 47 13C3 PFBS										
301.90 > 80.00	2.427	2.427	0.0	0.695	1024342	1.15		98.6	180745	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.427	2.427	0.0	1.000	48410	0.0486	Target=2.21	110	133	
298.90 > 99.00	2.427	2.427	0.0	1.000	22181		2.18(1.10-3.31)	110	29.3	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.723	2.735	-0.012	1.000	7359	0.0537		115	154	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.723	2.735	-0.012	0.779	87206	1.17		100	92.0	
D 7 13C2 PFHxA										
315.00 > 270.00	2.759	2.771	-0.012	0.790	908776	1.28		102	2502	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.759	2.771	-0.012	1.000	46854	0.0590	Target=12.17	118	12.0	
313.00 > 119.00	2.759	2.771	-0.012	1.000	3848		12.18(6.09-18.26)	118	6.8	M
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.771	2.771	0.0	0.888	43453	0.0476	Target=3.32	101	153	
349.00 > 99.00	2.759	2.771	-0.012	0.884	12485		3.48(1.66-4.98)	101	31.9	
67 Perfluoro(2-propoxypropanoic) ac										
329.10 > 285.00	2.869	2.881	-0.012	1.000	9952	0.0578		116	1.2	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.869	2.881	-0.012	0.821	155222	1.24		99.1	808	
D 11 18O2 PFHxS										
403.00 > 84.00	3.123	3.133	-0.011	0.894	822695	1.24		105	1287	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.133	3.133	0.0	1.003	41668	0.0508	Target=4.08	112	50.8	M
399.00 > 99.00	3.123	3.133	-0.011	1.000	11112		3.75(2.04-6.11)	112	9.6	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.133	3.133	0.0	0.897	853376	1.25		100	3008	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.133	3.133	0.0	1.000	39251	0.0526	Target=3.70	105	10.4	
363.00 > 169.00	3.133	3.133	0.0	1.000	11020		3.56(1.85-5.56)	105	35.2	
77 DONA										
377.00 > 251.00	3.165	3.176	-0.011	0.832	76688	0.0495	Target=2.47	105	110	
377.00 > 85.00	3.165	3.176	-0.011	0.832	30043		2.55(1.23-3.70)	105	33.3	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.475	3.484	-0.009	0.913	31963	0.0512	Target=5.85	108	249	
449.00 > 99.00	3.475	3.484	-0.009	0.913	5848		5.47(2.93-8.78)	108	36.6	M
D 12 M2-6:2 FTS										M
429.00 > 81.00	3.475	3.484	-0.009	0.995	100493	1.21		102	352	M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.484	3.484	0.0	1.003	4554	0.0484		102	112	M
D 14 13C4 PFOA										
417.00 > 372.00	3.493	3.493	0.0	1.000	889146	1.28		103	2451	
* 62 13C2 PFOA										
415.00 > 370.00	3.493	3.493	0.0		874500	1.25			3167	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.493	3.493	0.0	1.000	40563	0.0526	Target=2.58	105	9.1	
413.00 > 169.00	3.493	3.493	0.0	1.000	16414		2.47(1.29-3.87)	105	40.6	M
D 18 13C4 PFOS										
503.00 > 80.00	3.806	3.806	0.0	1.089	552776	1.21		101	1557	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.806	3.806	0.0	1.000	27324	0.0514	Target=5.56	111	34.0	M
499.00 > 99.00	3.806	3.806	0.0	1.000	5749		4.75(2.78-8.34)	111	21.4	M
D 19 13C5 PFNA										
468.00 > 423.00	3.826	3.826	0.0	1.095	787744	1.29		103	2069	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.826	3.826	0.0	1.000	40080	0.0575	Target=6.87	115	6.3	M
463.00 > 169.00	3.816	3.826	-0.010	0.997	6287		6.38(3.43-10.30)	115	60.0	M
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.967	3.967	0.0	1.042	29669	0.0500		107	209	
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.095	4.095	0.0	1.076	21260	0.0536	Target=2.78	112	265	M
549.00 > 99.00	4.095	4.095	0.0	1.076	7735		2.75(1.39-4.17)	112	23.1	M
D 23 13C2 PFDA										
515.00 > 470.00	4.118	4.129	-0.011	1.179	741582	1.27		102	2696	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.118	4.129	-0.011	1.000	31691	0.0518	Target=9.03	104	24.7	M
513.00 > 169.00	4.118	4.129	-0.011	1.000	3824		8.29(4.51-13.54)	104	31.1	M
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.129	4.140	-0.011	1.000	2861	0.0468		97.7	73.0	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.129	4.140	-0.011	1.182	107657	1.26		105	657	
D 21 13C8 FOSA										
506.00 > 78.00	4.207	4.207	0.0	1.204	1076815	1.25		100	3541	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.207	4.207	0.0	1.000	41621	0.0482		96.4	229	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.260	4.272	-0.012	1.219	49895	1.18		94.2	714	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.272	4.272	0.0	1.003	1773	0.0501		100	18.6	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.350	4.362	-0.012	1.143	16293	0.0515	Target=2.76	107	164	
599.00 > 99.00	4.350	4.362	-0.012	1.143	5699		2.86(1.38-4.14)	107	32.2	
D 30 13C2 PFUnA										
565.00 > 520.00	4.384	4.384	0.0	1.255	632709	1.32		106	1998	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.384	4.395	-0.011	1.000	24431	0.0473	Target=8.02	94.7	10.1	
563.00 > 169.00	4.384	4.395	-0.011	1.000	3612		6.76(4.01-12.03)	94.7	53.0	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.395	4.395	0.0	1.258	49123	1.20		96.0	347	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.395	4.406	-0.011	1.000	2130	0.0586		117	45.3	M
66 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.485	4.485	0.0	1.179	29806	0.0484		103	568	
D 36 13C2 PFDoA										
615.00 > 570.00	4.616	4.626	-0.010	1.322	640188	1.26		101	3580	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.616	4.626	-0.010	1.000	30573	0.0543	Target=6.85	109	9.7	
613.00 > 169.00	4.616	4.626	-0.010	1.000	3833		7.98(3.42-10.27)	109	57.9	M
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.637	4.637	0.0	1.123	1284	0.0408		84.6	40.0	M
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.797	4.797	0.0	1.261	6843	0.0588	Target=0.53	121	16.8	M
699.00 > 99.00	4.797	4.797	0.0	1.261	10922		0.63(0.26-0.79)	121	65.2	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.827	4.839	-0.012	1.046	24591	0.0538	Target=4.48	108	10.0	
663.00 > 169.00	4.827	4.839	-0.012	1.046	5908		4.16(2.24-6.72)	108	88.9	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.018	5.027	-0.009	1.436	460978	1.23		98.5	2875	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.027	5.027	0.0	1.002	3795	0.0555	Target=0.99	111	120	M
713.00 > 219.00	5.018	5.027	-0.009	1.000	4608		0.82(0.50-1.49)	111	166	

Report Date: 22-Dec-2020 14:39:20 Chrom Revision: 2.3 09-Dec-2020 16:22:14
Data File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL008.d
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.374	5.374	0.0	1.539	493765	1.23		98.7	1409	
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.374	5.374	0.0	1.000	23322	0.0481	Target=4.02	96.3	6.3	
813.00 > 169.00	5.374	5.374	0.0	1.000	5860		3.98(2.01-6.02)	96.3	134	M
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.722	5.722	0.0	1.065	18931	0.0533	Target=3.88	107	16.4	
913.00 > 169.00	5.713	5.722	-0.009	1.063	4824		3.92(1.94-5.82)	107	121	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

PFAS32NCIC1_00007 Amount Added: 100.00 Units: uL

Report Date: 22-Dec-2020 14:39:20 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL008.d

Injection Date: 22-Dec-2020 12:48:13 Instrument ID: LC812

Lims ID: IC

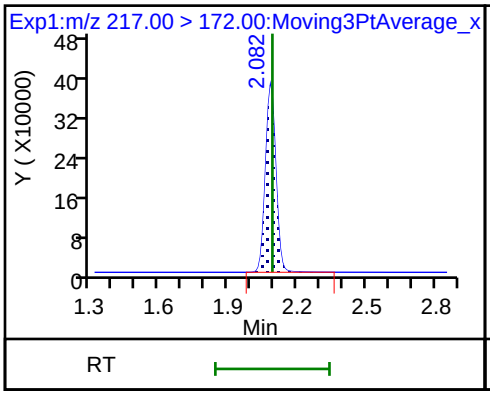
Client ID:

Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 8

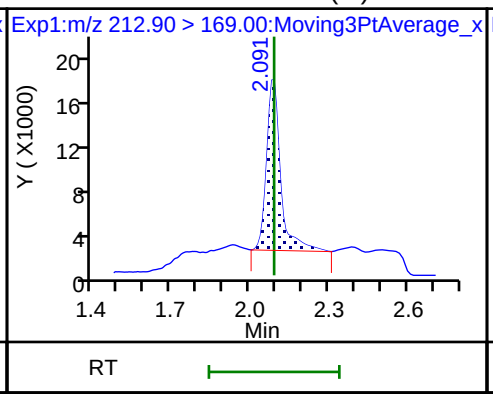
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

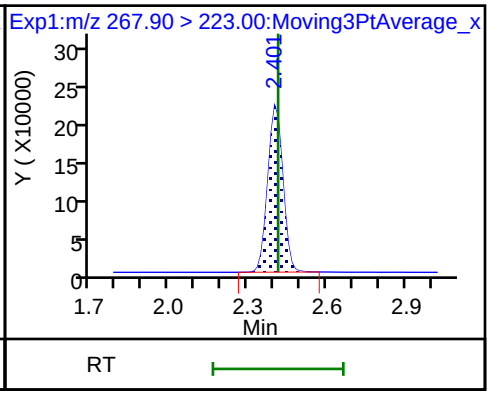
D 1 13C4 PFBA



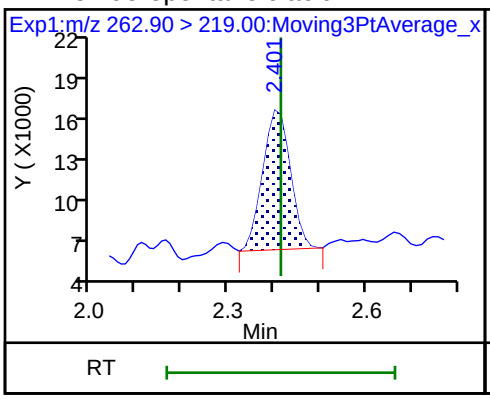
2 Perfluorobutanoic acid (M)



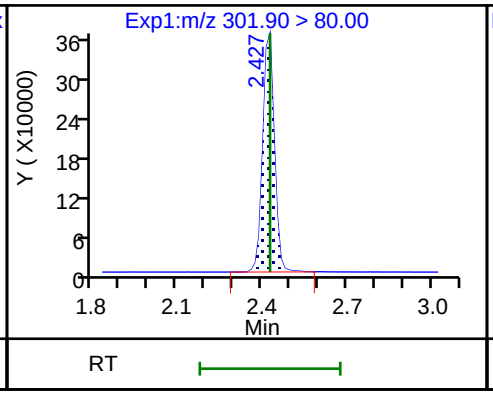
D 3 13C5 PFPeA



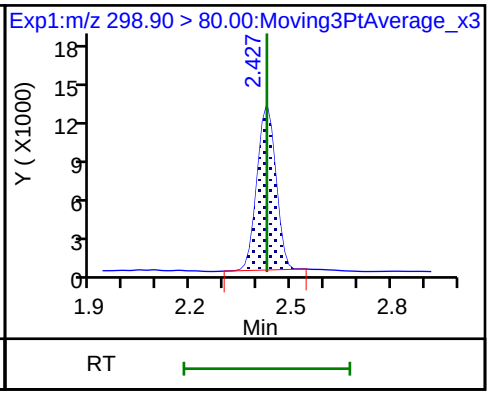
4 Perfluoropentanoic acid



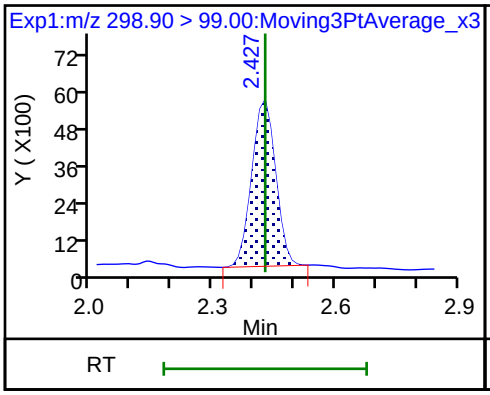
D 47 13C3 PFBS



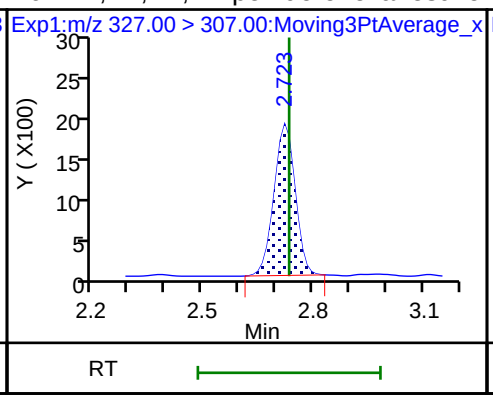
5 Perfluorobutanesulfonic acid



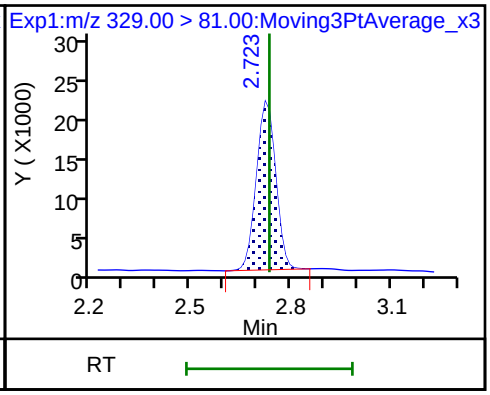
5 Perfluorobutanesulfonic acid



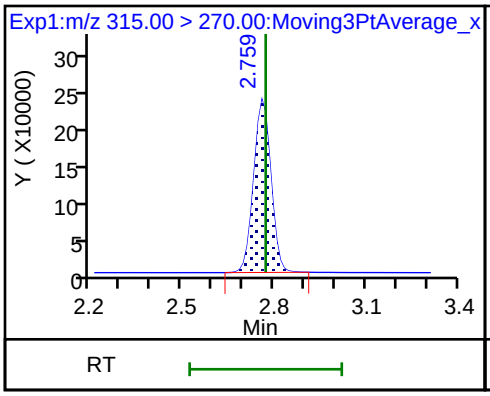
61 1H,1H,2H,2H-perfluorohexanesulfo



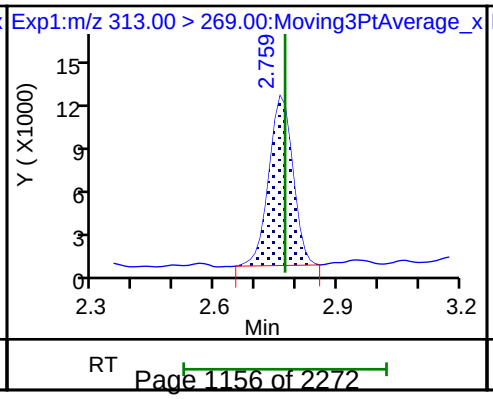
D 60 M2-4:2 FTS



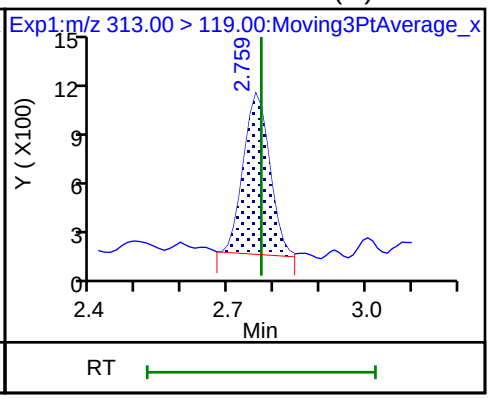
D 7 13C2 PFHxA



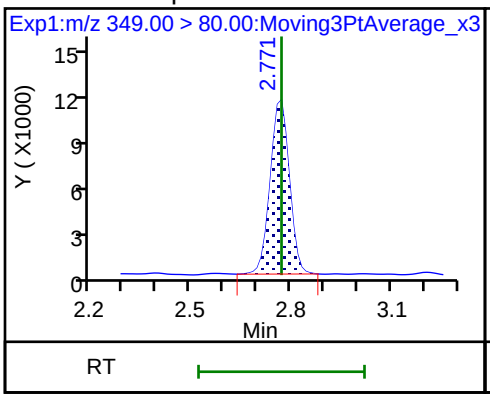
6 Perfluorohexanoic acid



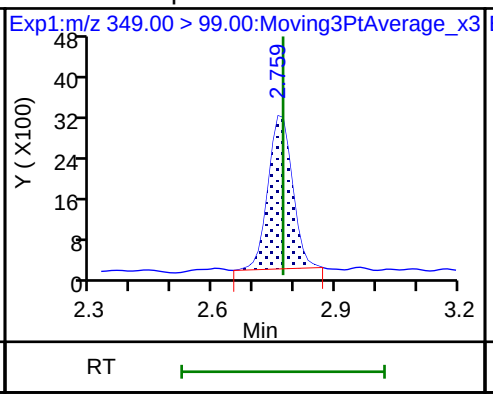
6 Perfluorohexanoic acid (M)



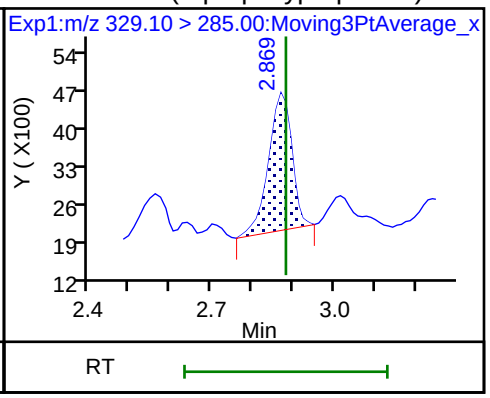
70 Perfluoropentanesulfonic acid



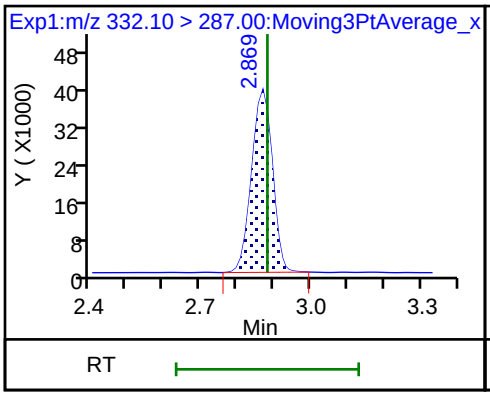
70 Perfluoropentanesulfonic acid



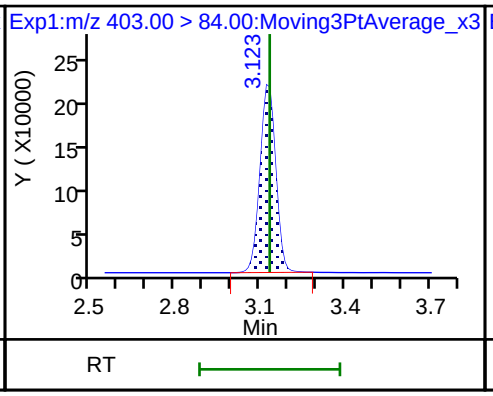
67 Perfluoro(2-propoxypropanoic) ac



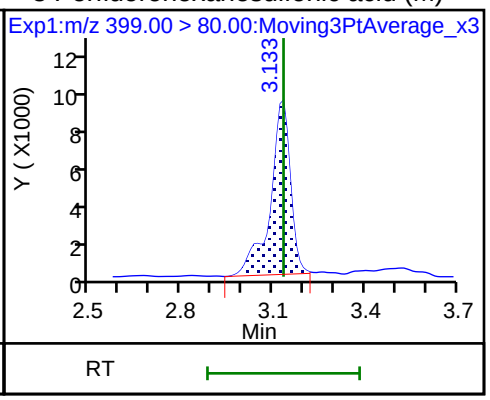
D 64 13C3 HFPO-DA



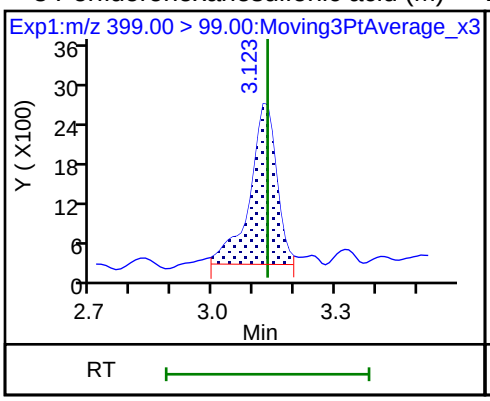
D 11 18O2 PFHxS



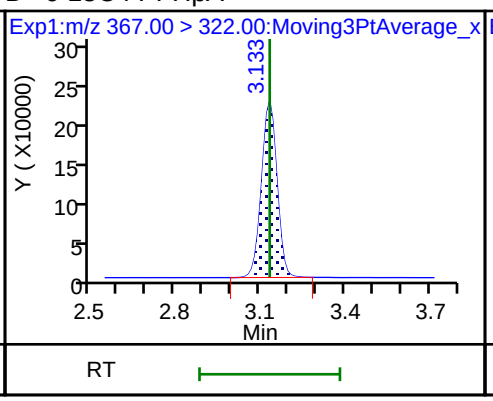
8 Perfluorohexanesulfonic acid (M)



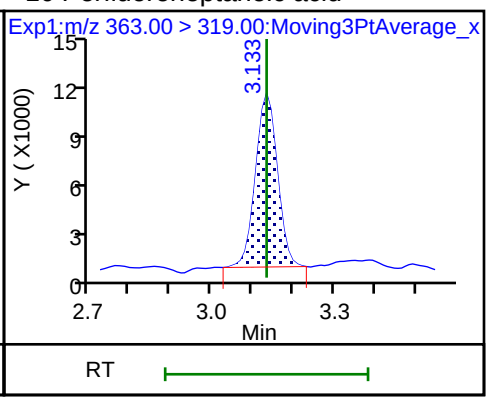
8 Perfluorohexanesulfonic acid (M)



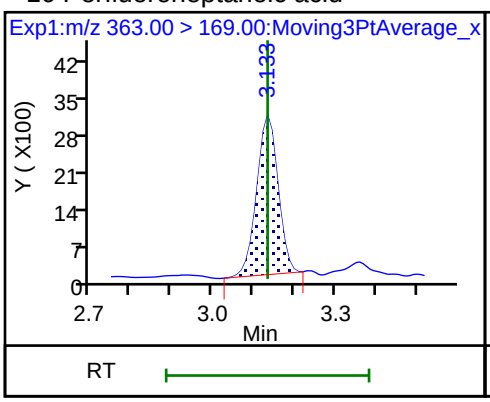
D 9 13C4 PFHpA



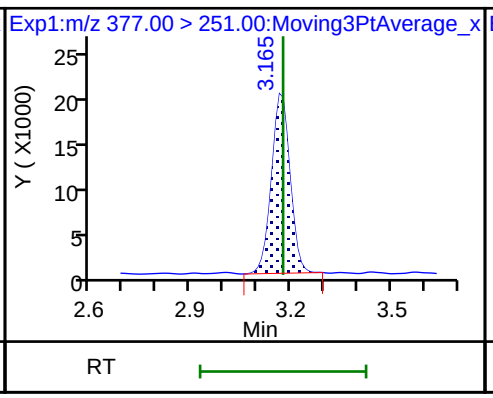
10 Perfluoroheptanoic acid



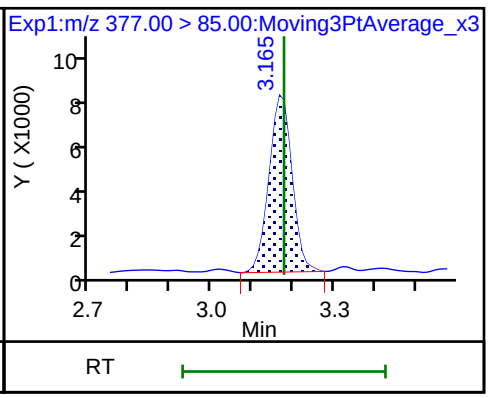
10 Perfluoroheptanoic acid



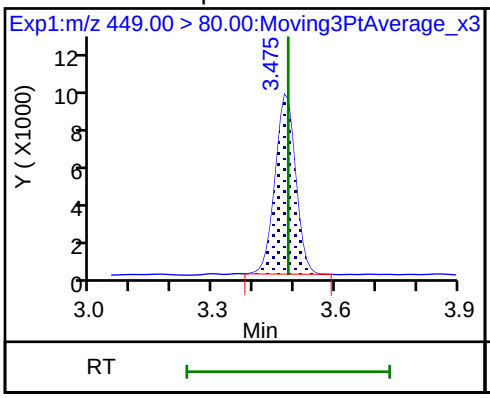
77 DONA



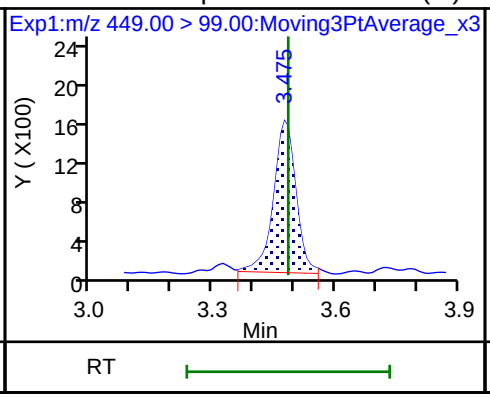
77 DONA



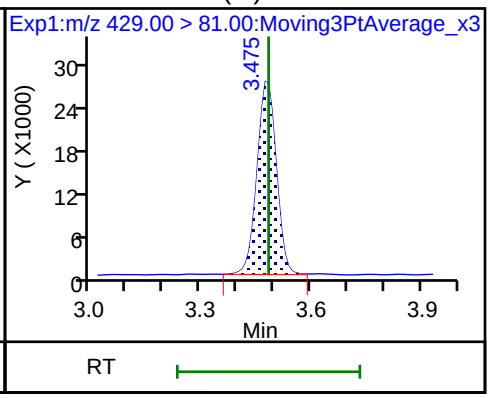
16 Perfluoroheptanesulfonic acid



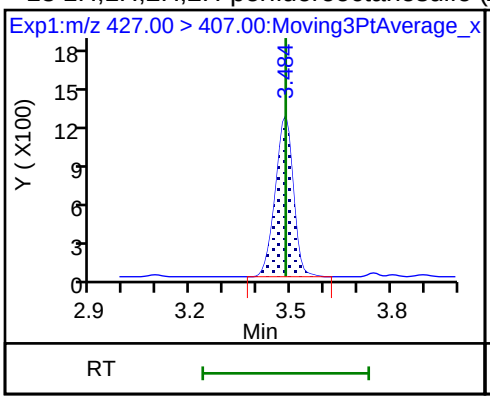
16 Perfluoroheptanesulfonic acid (M)



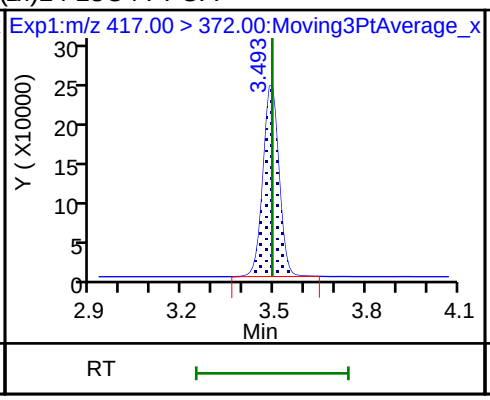
D 12 M2-6:2 FTS (M)



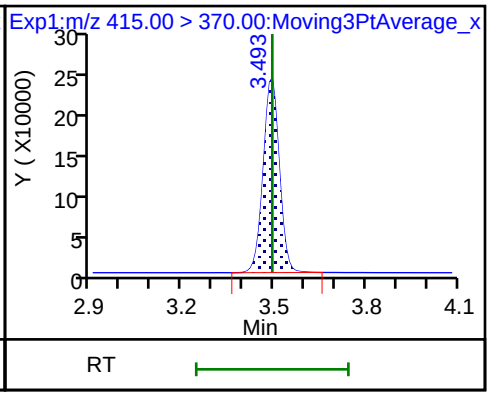
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



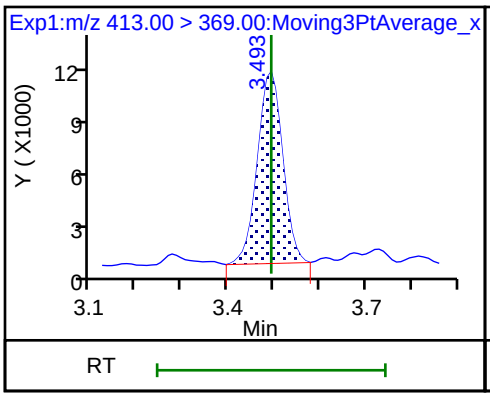
14 13C4 PFOA



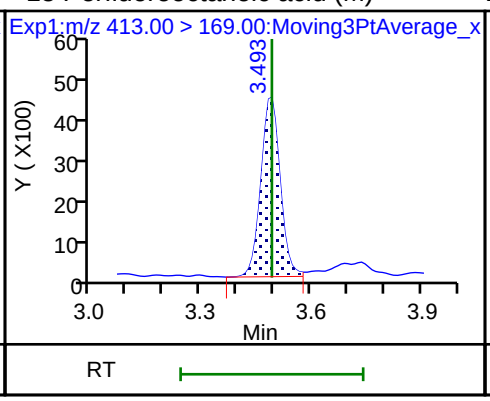
* 62 13C2 PFOA



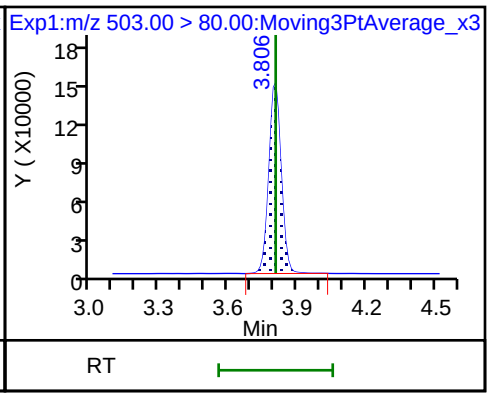
15 Perfluorooctanoic acid



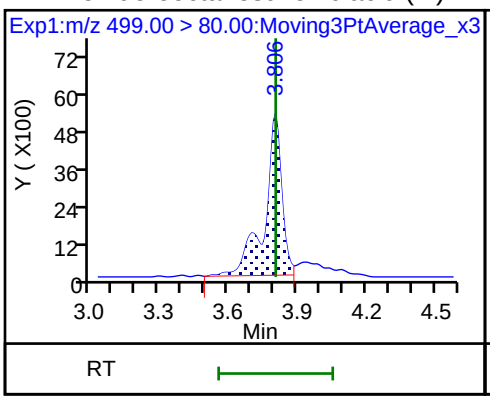
15 Perfluorooctanoic acid (M)



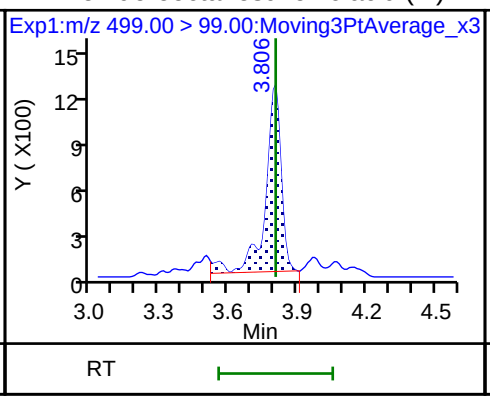
D 18 13C4 PFOS



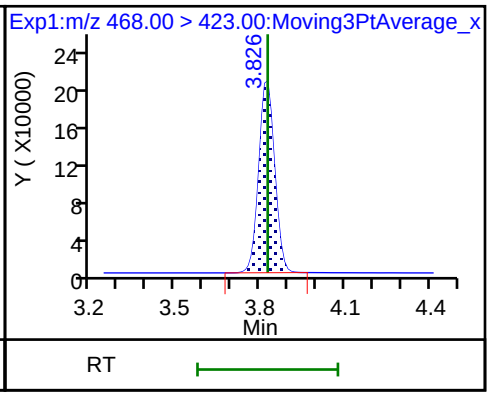
17 Perfluorooctanesulfonic acid (M)



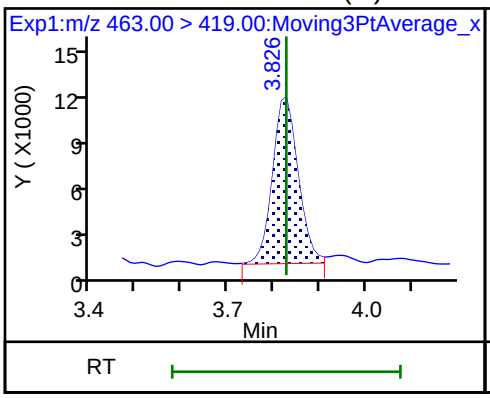
17 Perfluorooctanesulfonic acid (M)



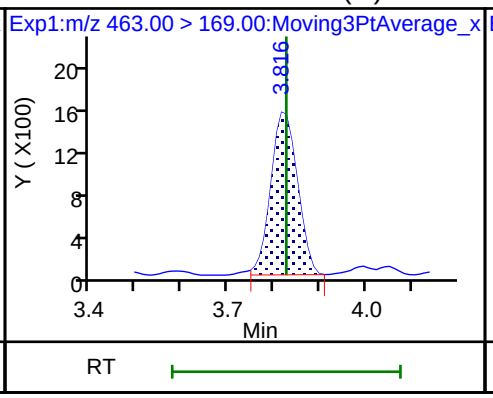
D 19 13C5 PFNA



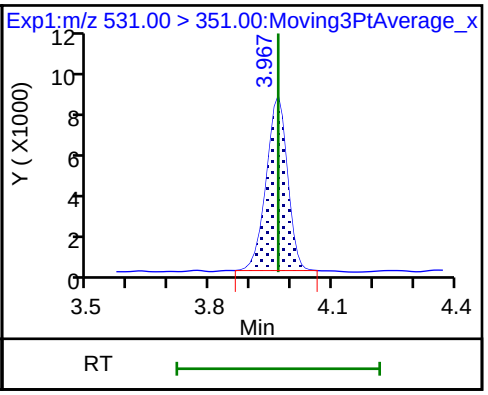
20 Perfluorononanoic acid (M)



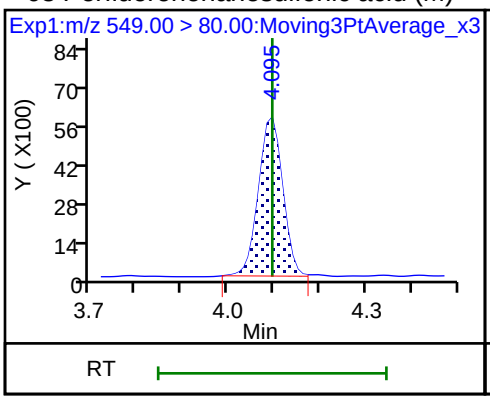
20 Perfluorononanoic acid (M)



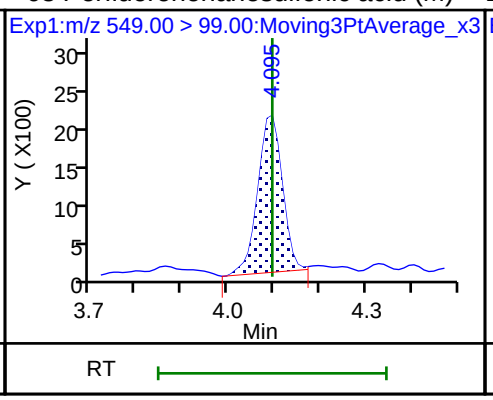
69 9-Chlorohexadecafluoro-3-oxanona



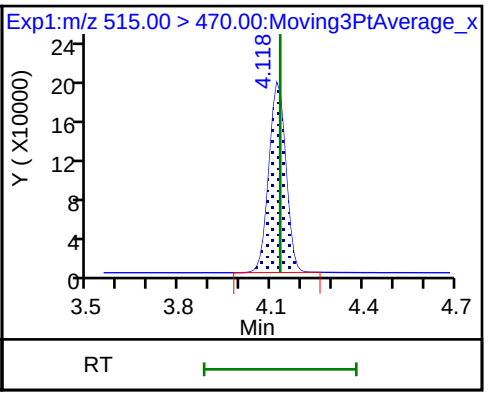
68 Perfluorononanesulfonic acid (M)



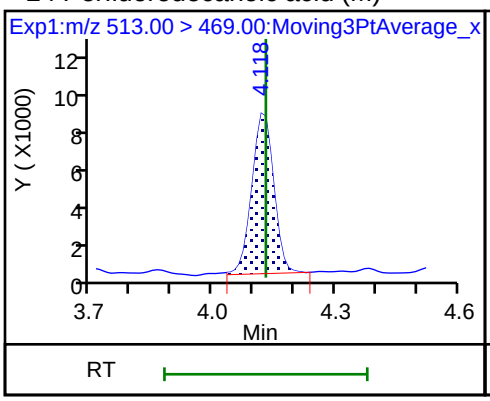
68 Perfluorononanesulfonic acid (M)



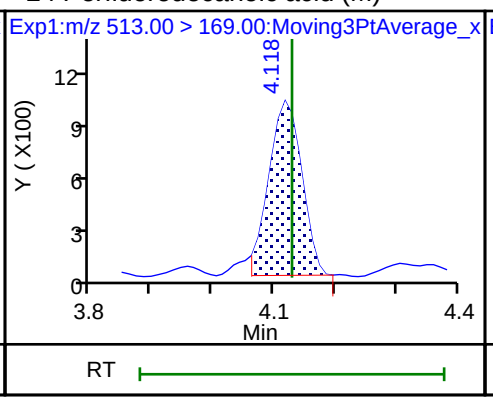
D 23 13C2 PFDA



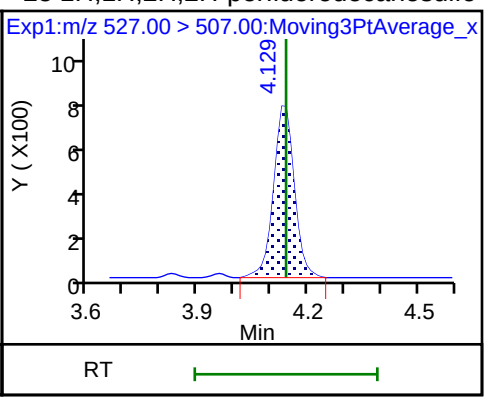
24 Perfluorodecanoic acid (M)



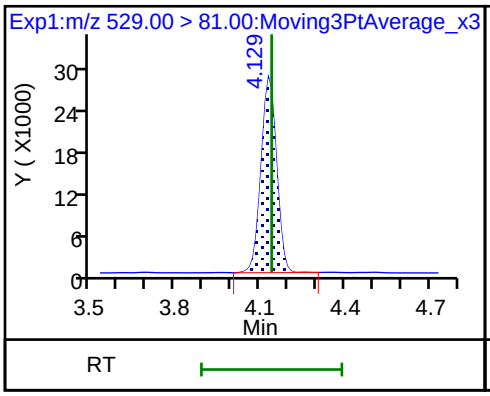
24 Perfluorodecanoic acid (M)



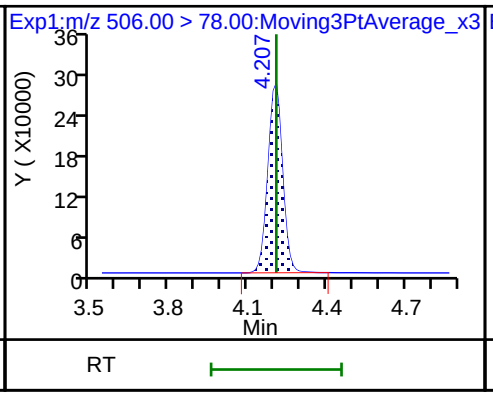
25 1H,1H,2H,2H-perfluorodecanesulfo



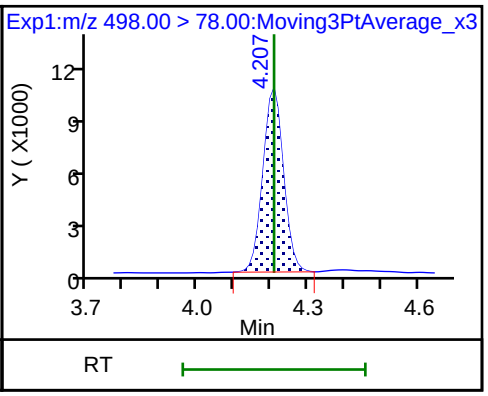
D 26 M2-8:2 FTS



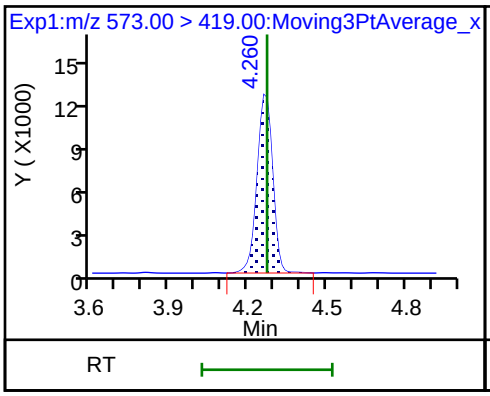
D 21 13C8 FOSA



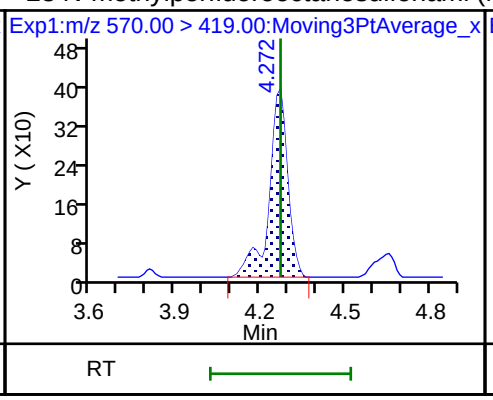
22 Perfluorooctanesulfonamide



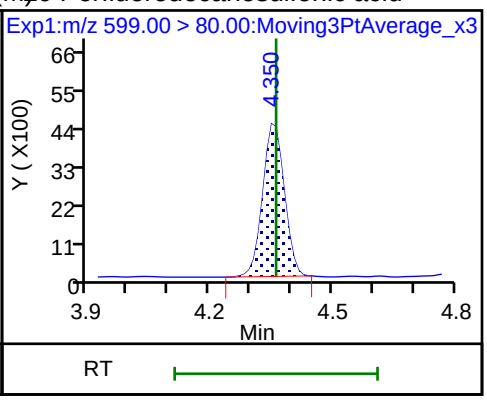
D 27 d3-NMeFOSAA



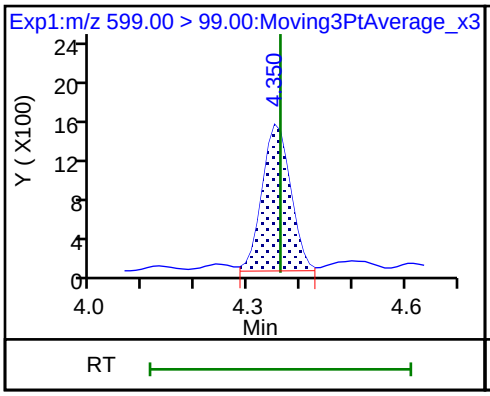
28 N-methylperfluorooctanesulfonami (M)



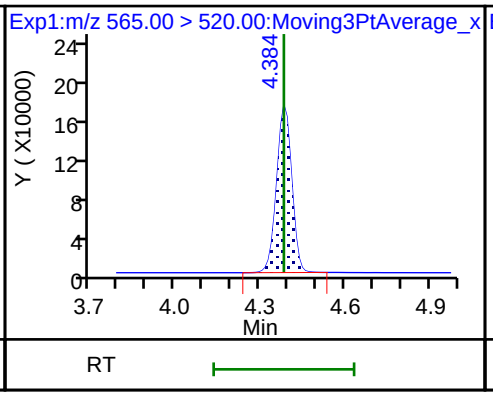
29 Perfluorodecanesulfonic acid



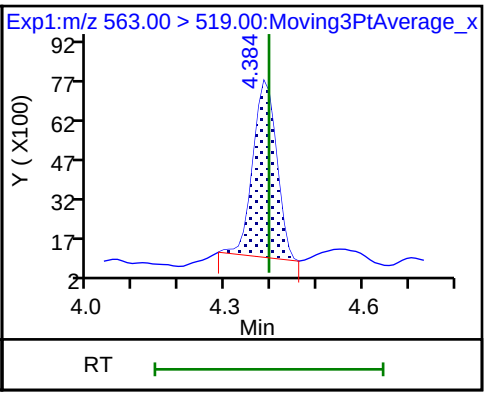
29 Perfluorodecanesulfonic acid



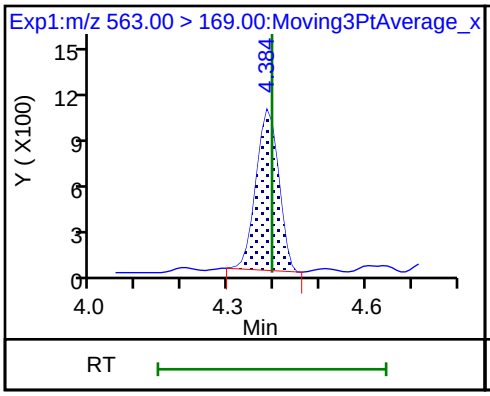
D 30 13C2 PFUnA



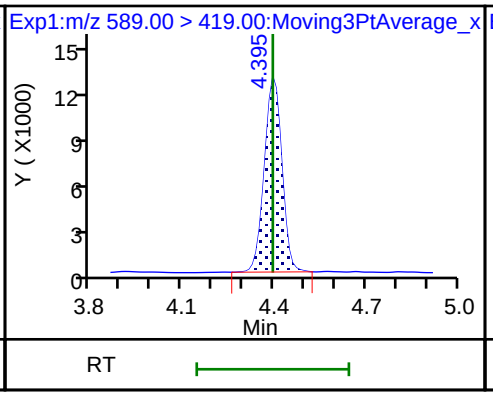
31 Perfluoroundecanoic acid



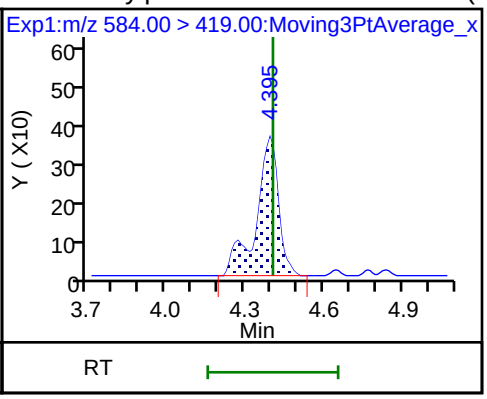
31 Perfluoroundecanoic acid



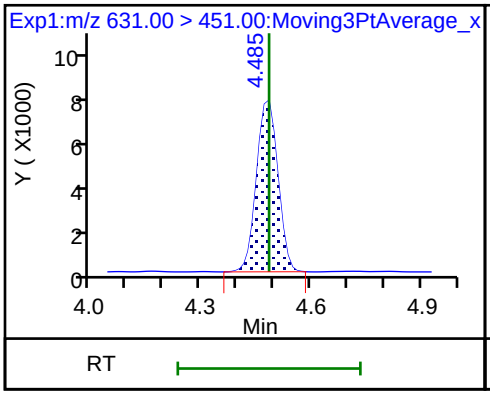
D 32 d5-NEtFOSAA



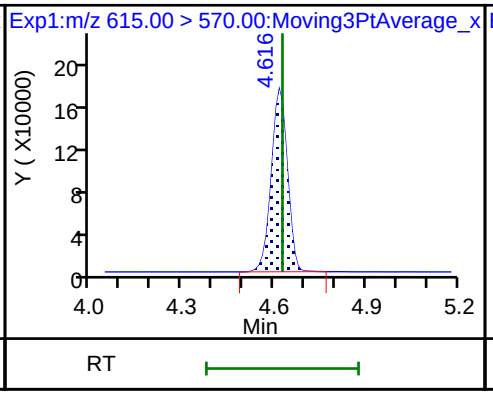
33 N-ethylperfluorooctanesulfonamid (M)



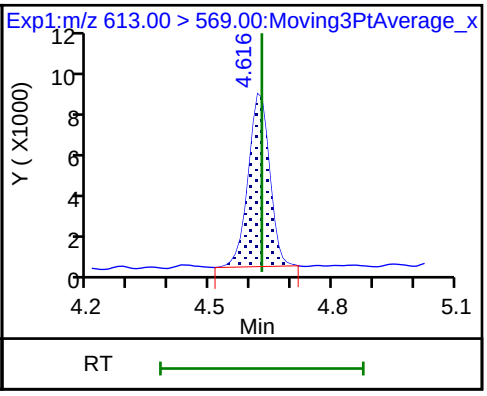
66 11-Chloroeicosafluoro-3-oxaundec



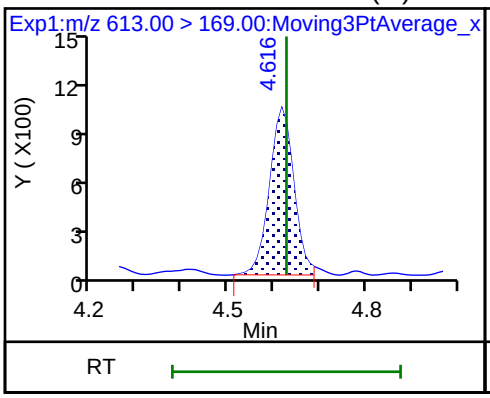
D 36 13C2 PFDoA



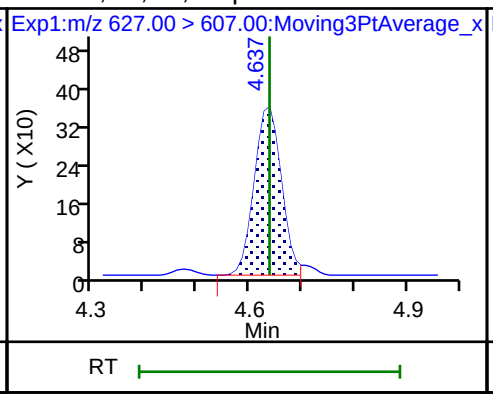
37 Perfluorododecanoic acid



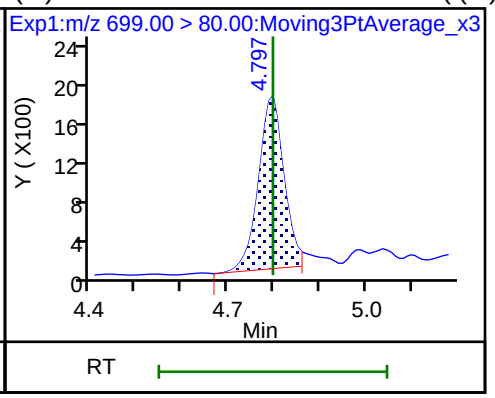
37 Perfluorododecanoic acid (M)



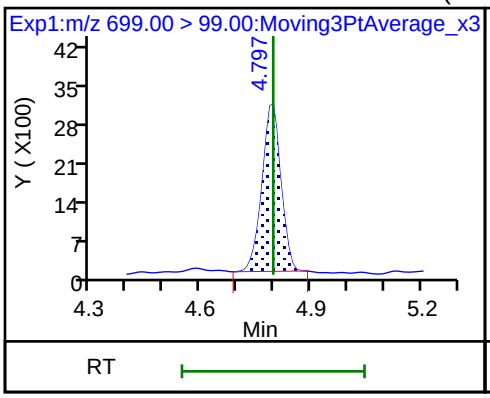
74 1H,1H,2H,2H-perfluorododecanesul (M)



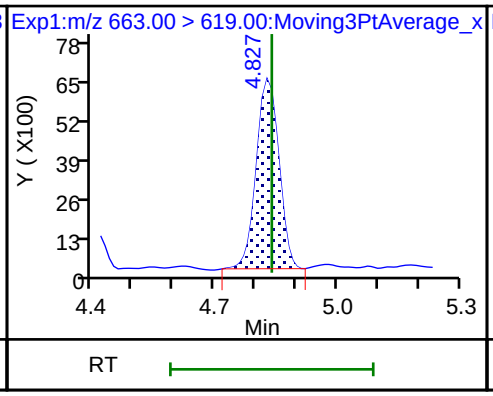
75 Perfluorododecanesulfonic acid ((M)



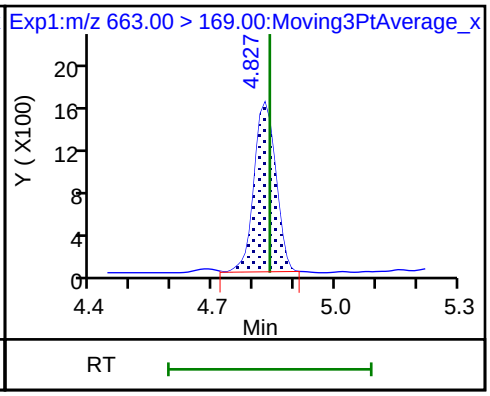
75 Perfluorododecanesulfonic acid (



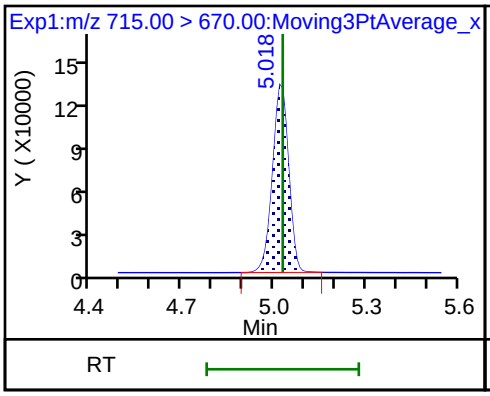
41 Perfluorotridecanoic acid



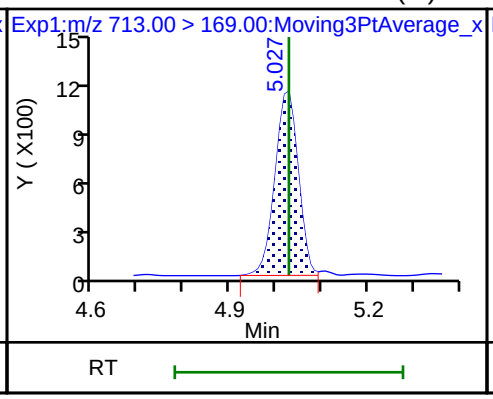
41 Perfluorotridecanoic acid



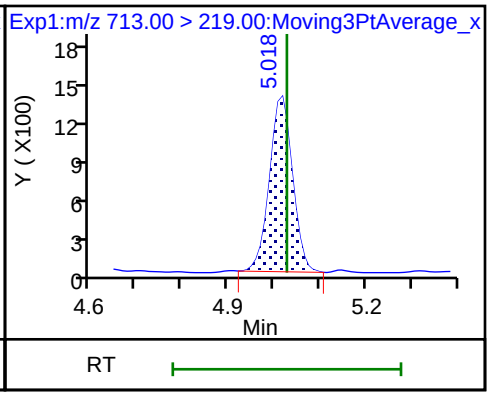
D 43 13C2 PFTeDA



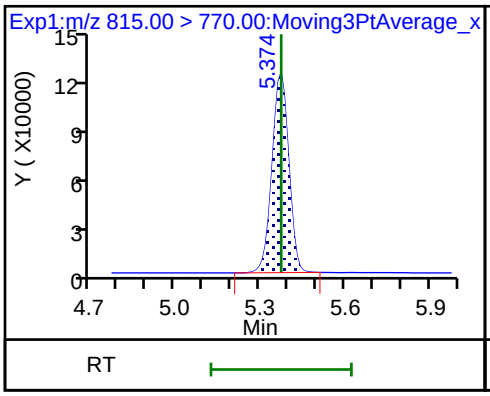
42 Perfluorotetradecanoic acid (M)



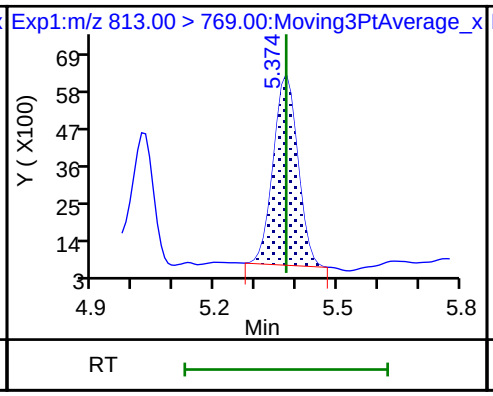
42 Perfluorotetradecanoic acid



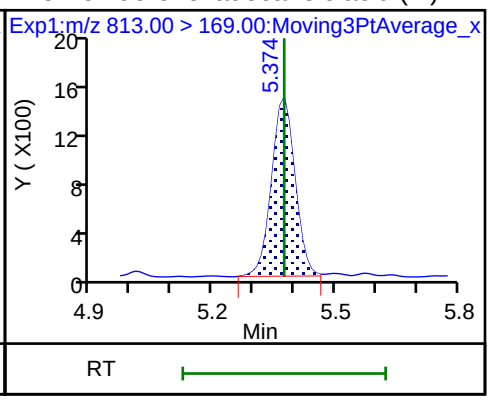
D 44 13C2 PFHxDA



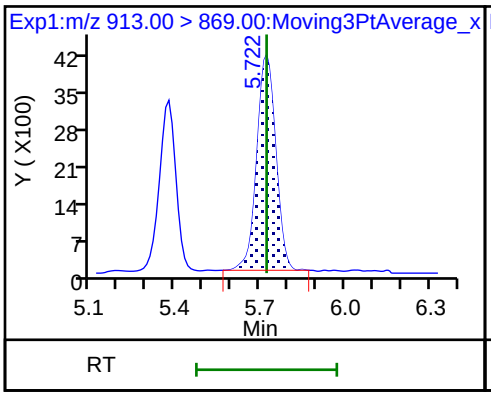
45 Perfluorohexadecanoic acid



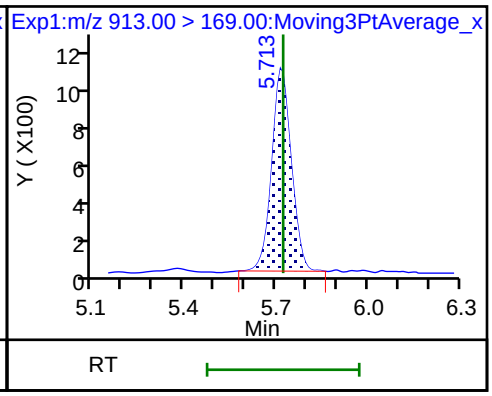
45 Perfluorohexadecanoic acid (M)



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

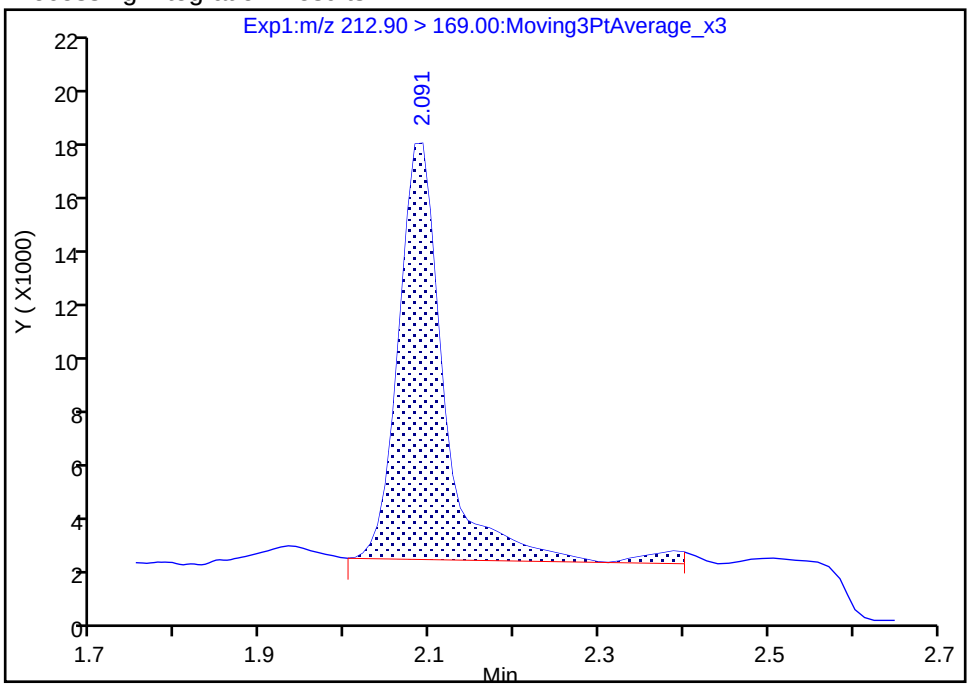
Data File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL008.d
Injection Date: 22-Dec-2020 12:48:13 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

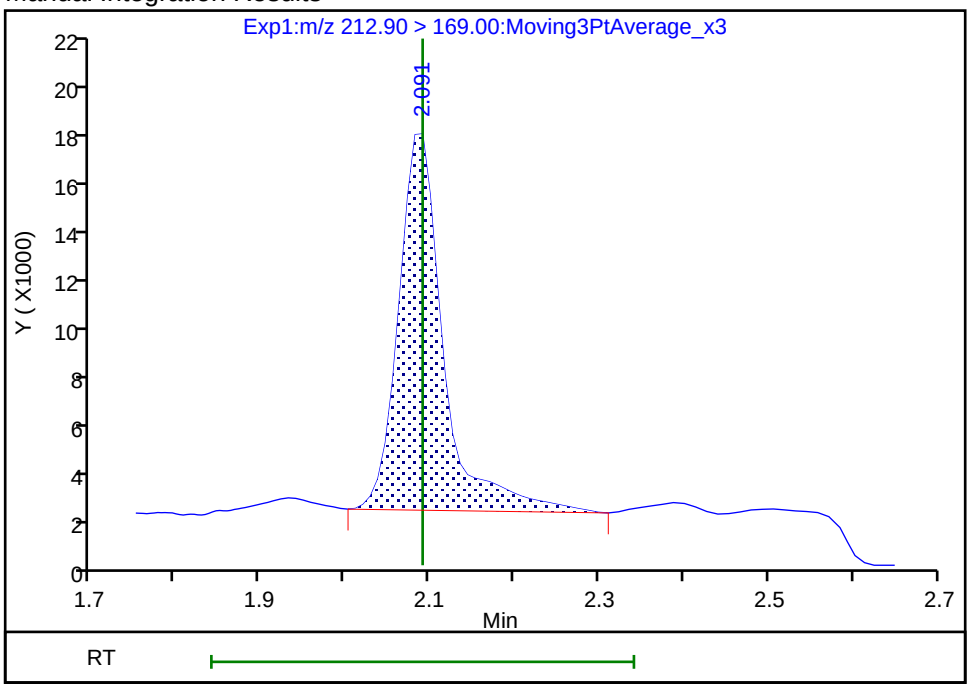
Processing Integration Results

RT: 2.09
Area: 59095
Amount: 0.050540
Amount Units: ng/ml



Manual Integration Results

RT: 2.09
Area: 57629
Amount: 0.060823
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:33:32
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

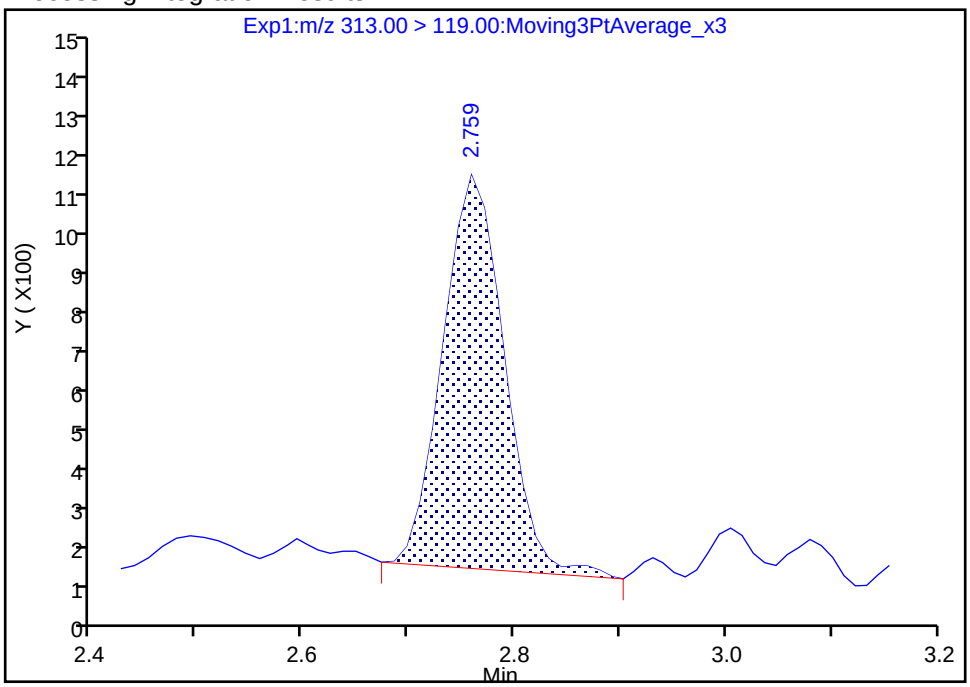
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL008.d				
Injection Date:	22-Dec-2020 12:48:13	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

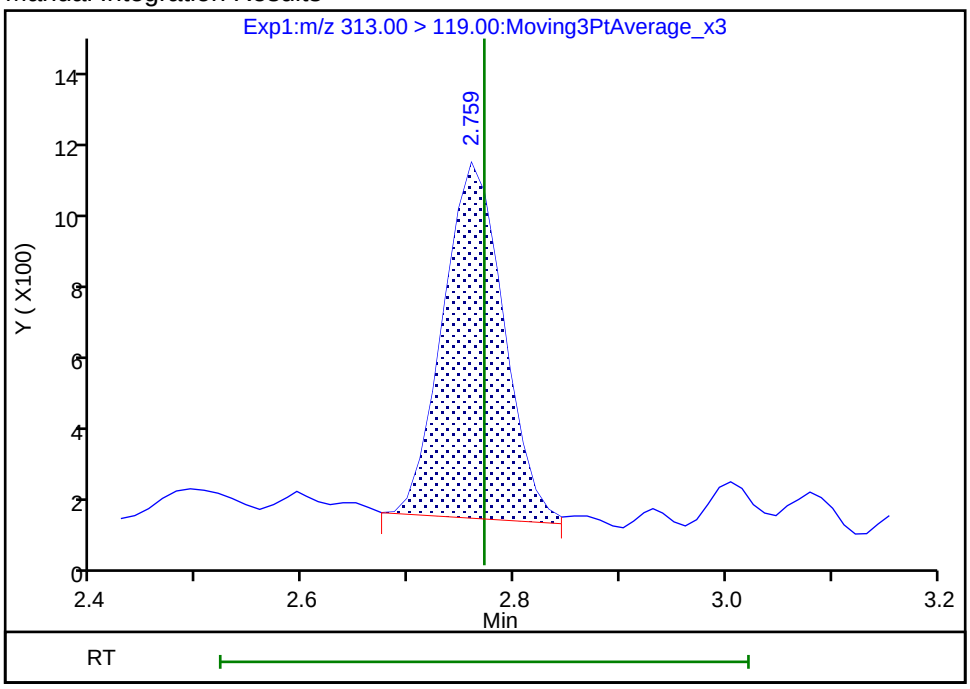
Processing Integration Results

RT: 2.76
Area: 3908
Amount: 0.051782
Amount Units: ng/ml



Manual Integration Results

RT: 2.76
Area: 3848
Amount: 0.058993
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:38:20
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

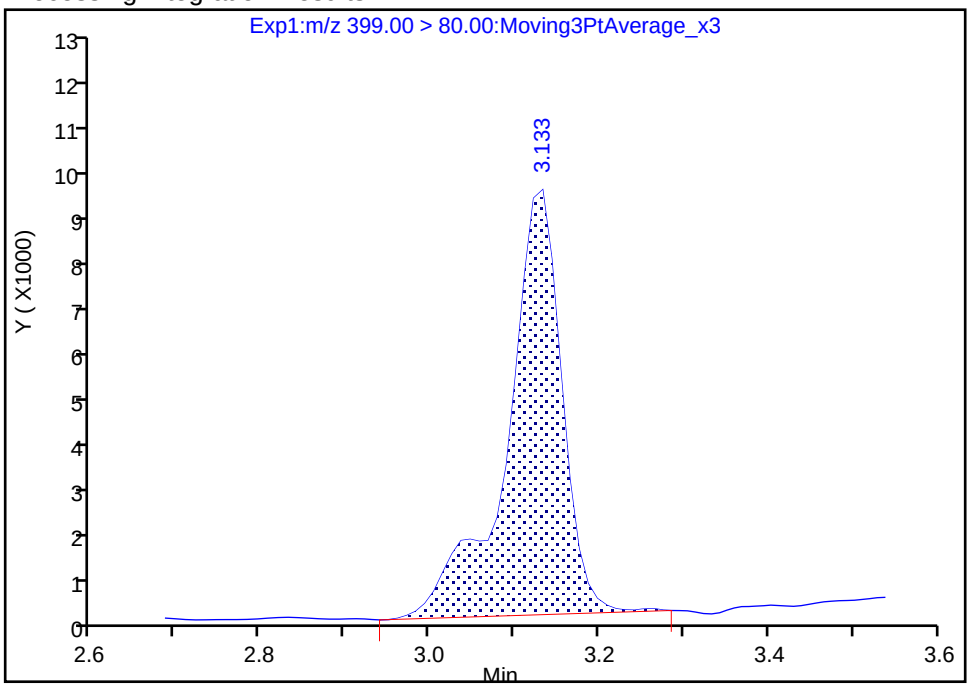
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL008.d				
Injection Date:	22-Dec-2020 12:48:13	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

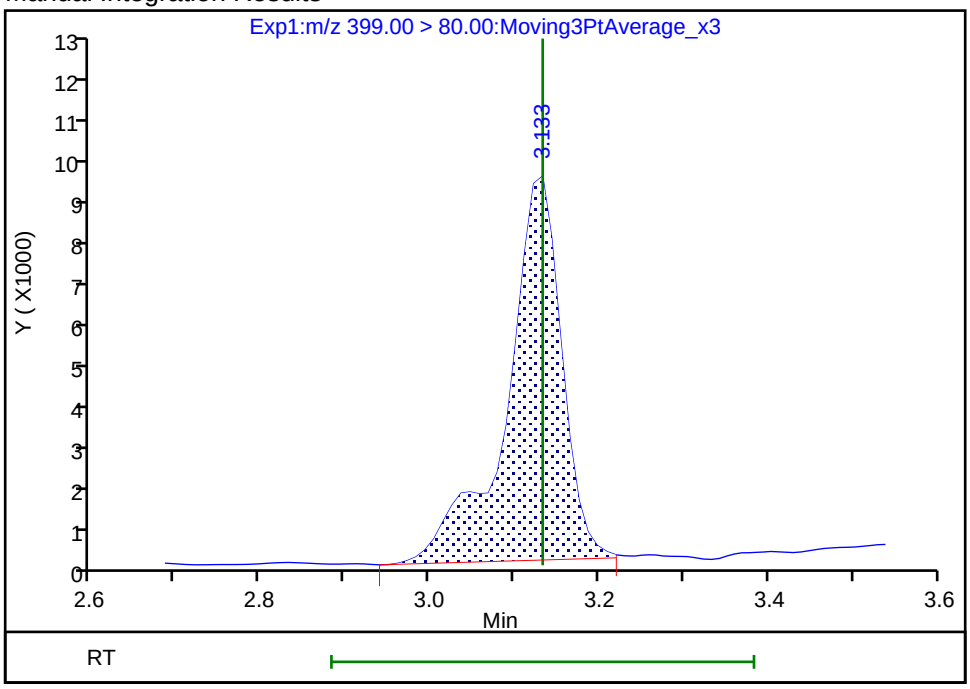
Processing Integration Results

RT: 3.13
Area: 41838
Amount: 0.042786
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 41668
Amount: 0.050821
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:39:55
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

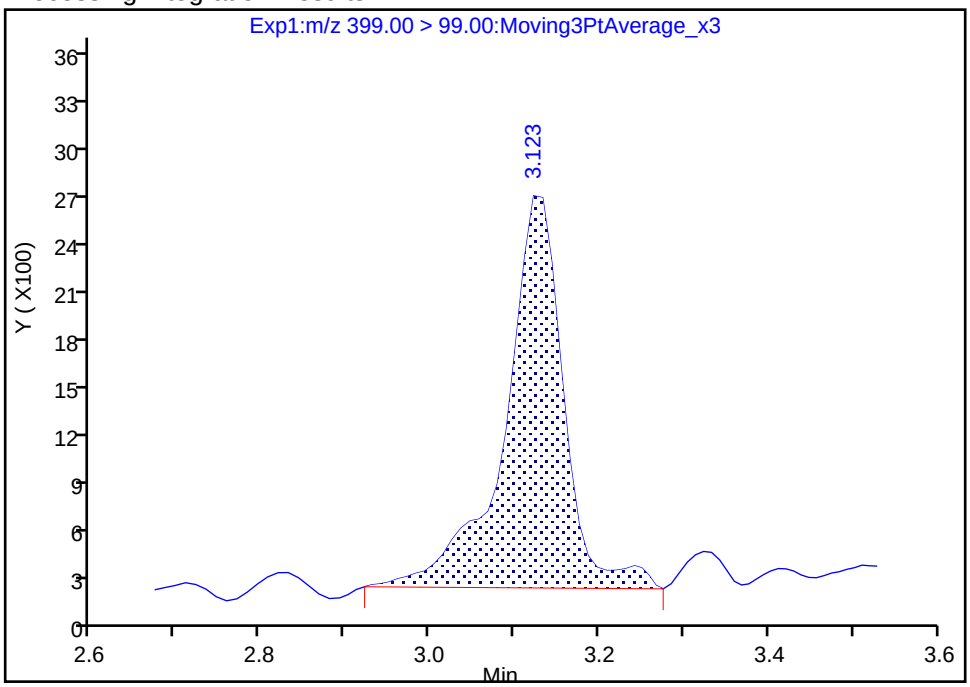
Data File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL008.d
Injection Date: 22-Dec-2020 12:48:13 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

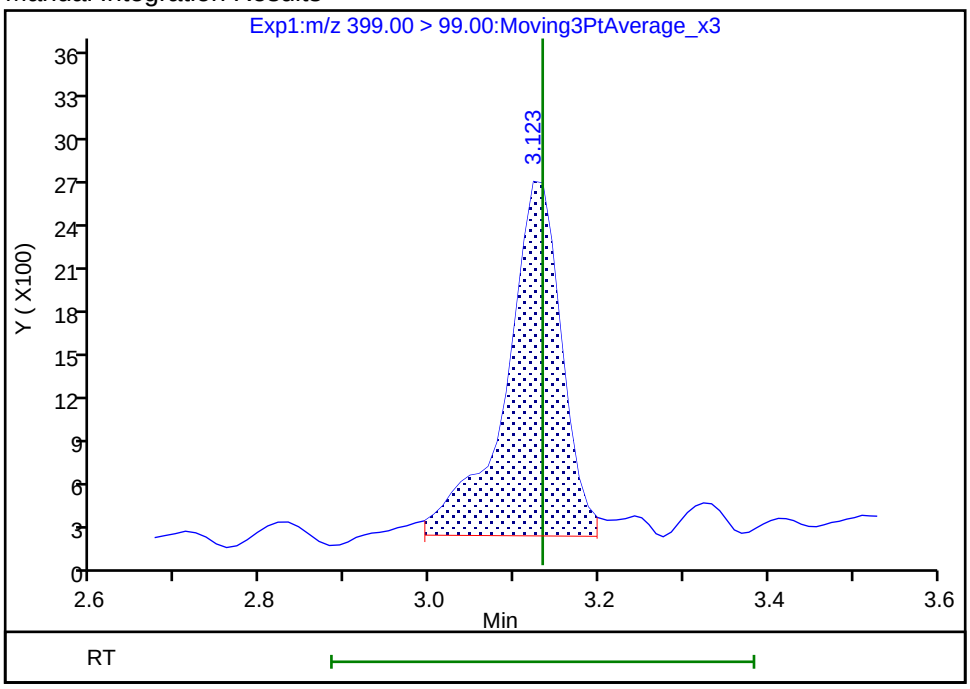
Processing Integration Results

RT: 3.12
Area: 11785
Amount: 0.042786
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 11112
Amount: 0.050821
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:39:58
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

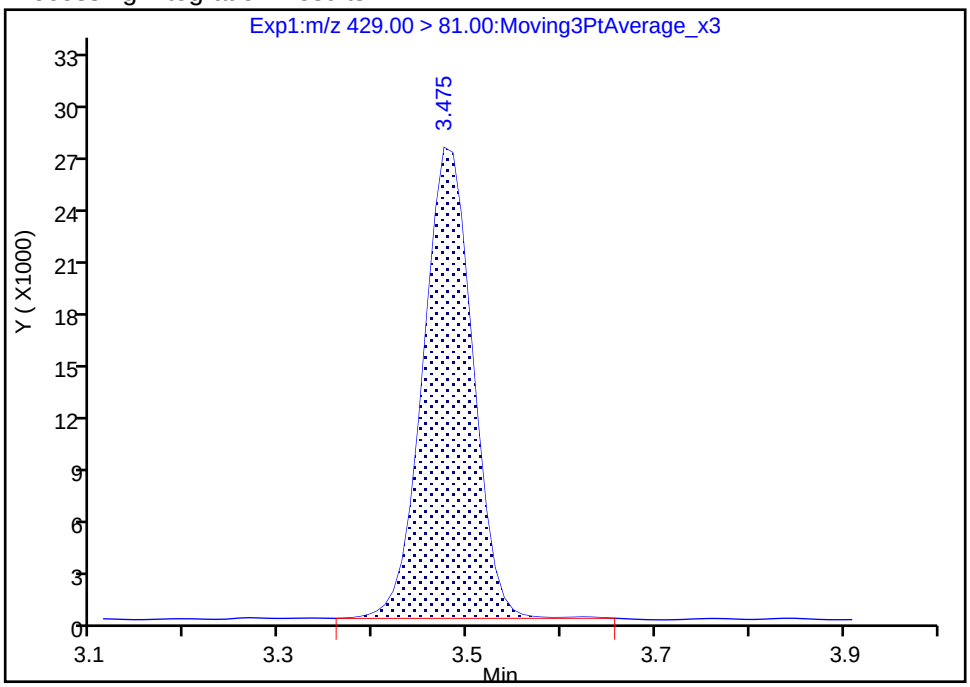
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL008.d				
Injection Date:	22-Dec-2020 12:48:13	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 12 M2-6:2 FTS, CAS: STL02279

Signal: 1

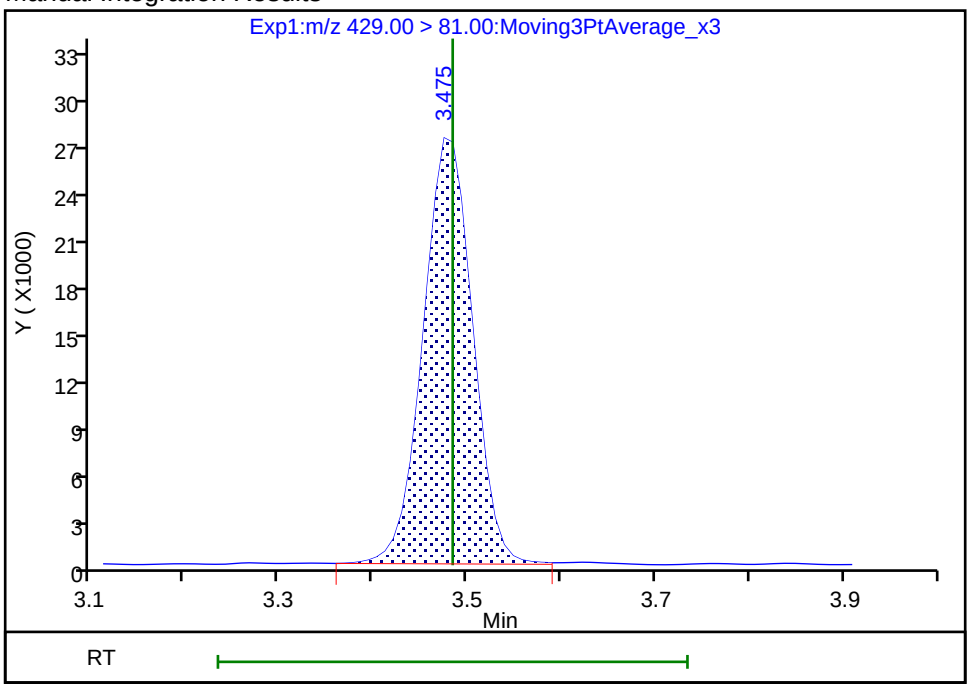
Processing Integration Results

RT: 3.48
Area: 100266
Amount: 1.224525
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 100493
Amount: 1.210092
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:40:34

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

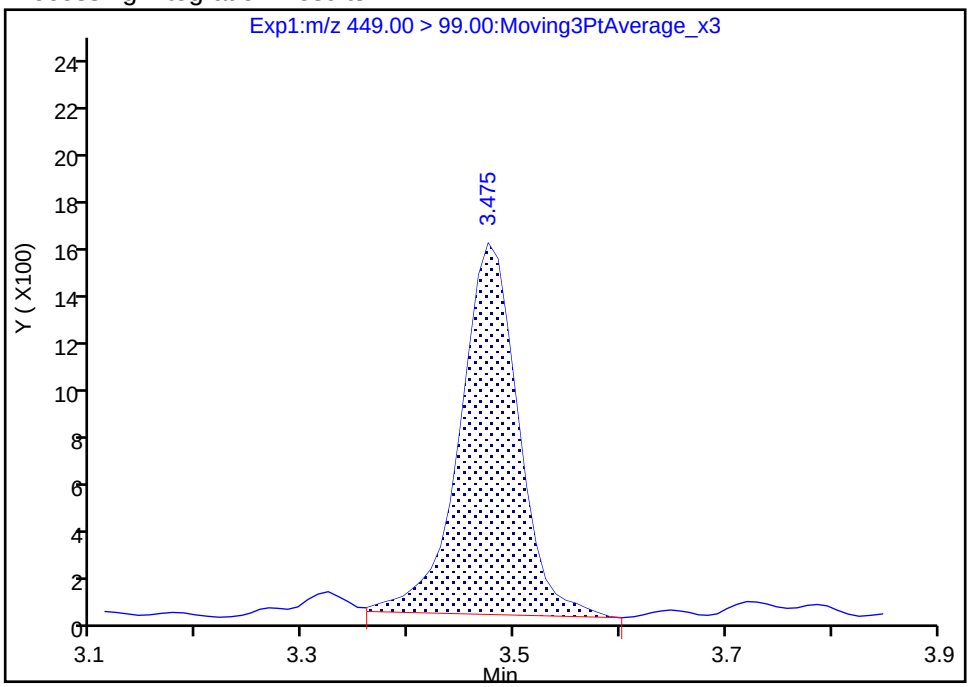
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL008.d				
Injection Date:	22-Dec-2020 12:48:13	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

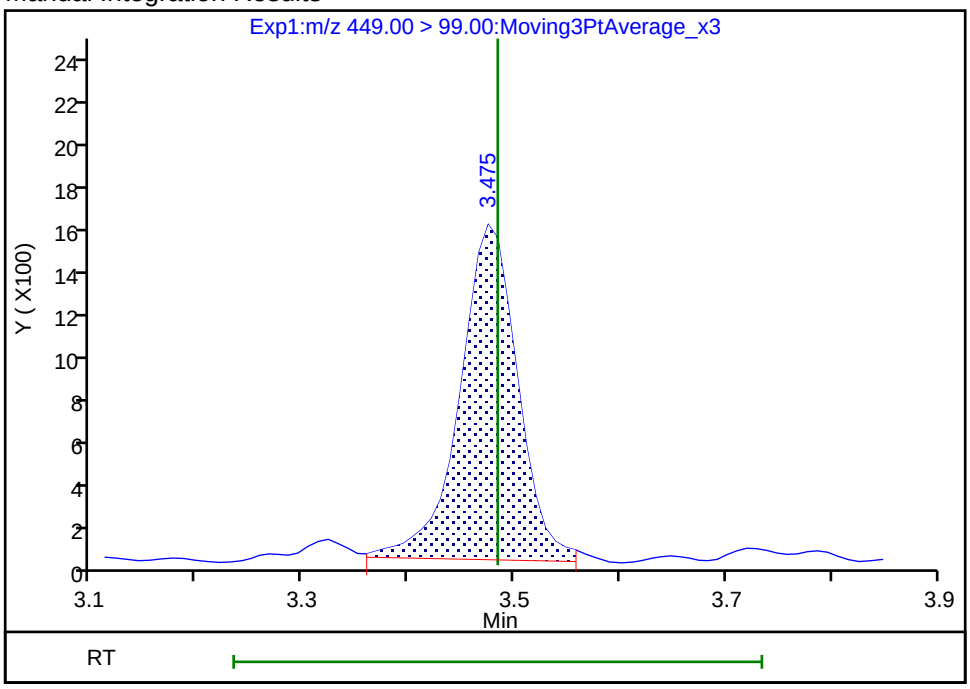
Processing Integration Results

RT: 3.48
Area: 5908
Amount: 0.046186
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 5848
Amount: 0.051177
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:40:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

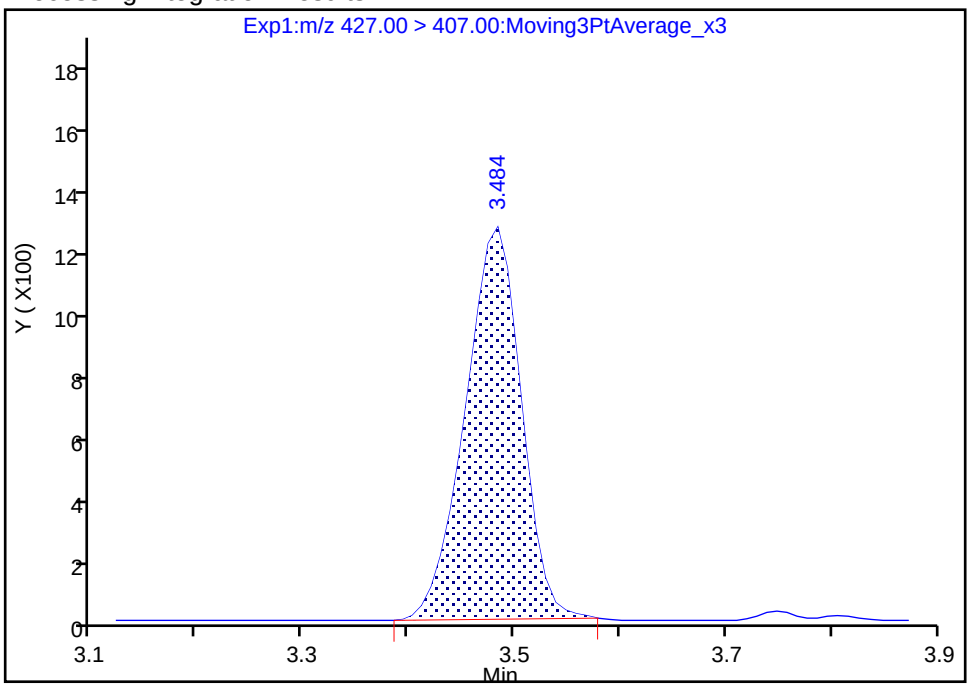
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL008.d				
Injection Date:	22-Dec-2020 12:48:13	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

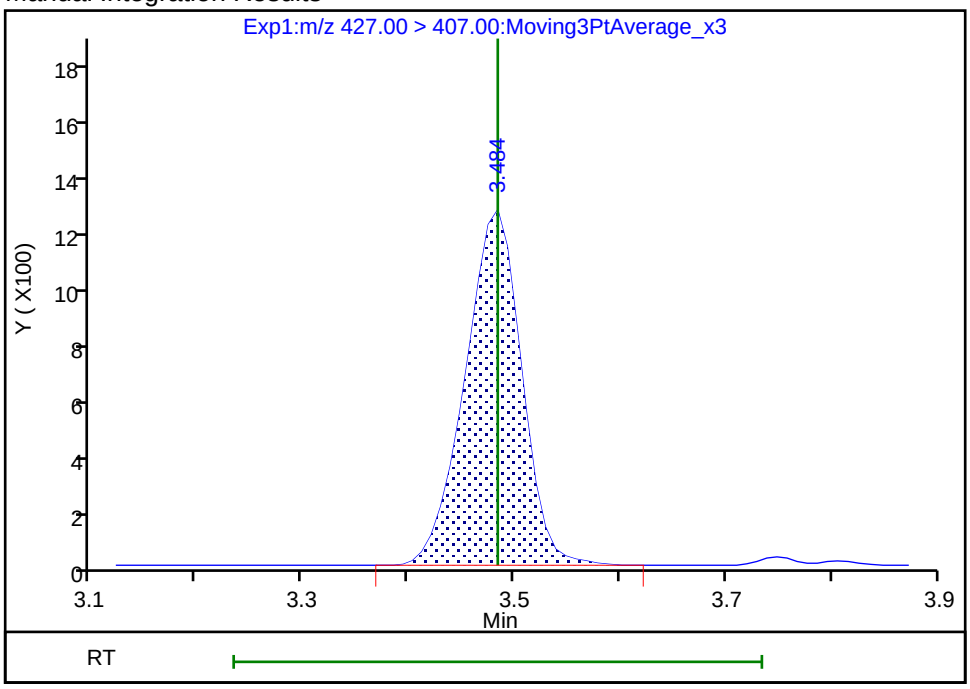
Processing Integration Results

RT: 3.48
Area: 4509
Amount: 0.047470
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 4554
Amount: 0.048378
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:40:43
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

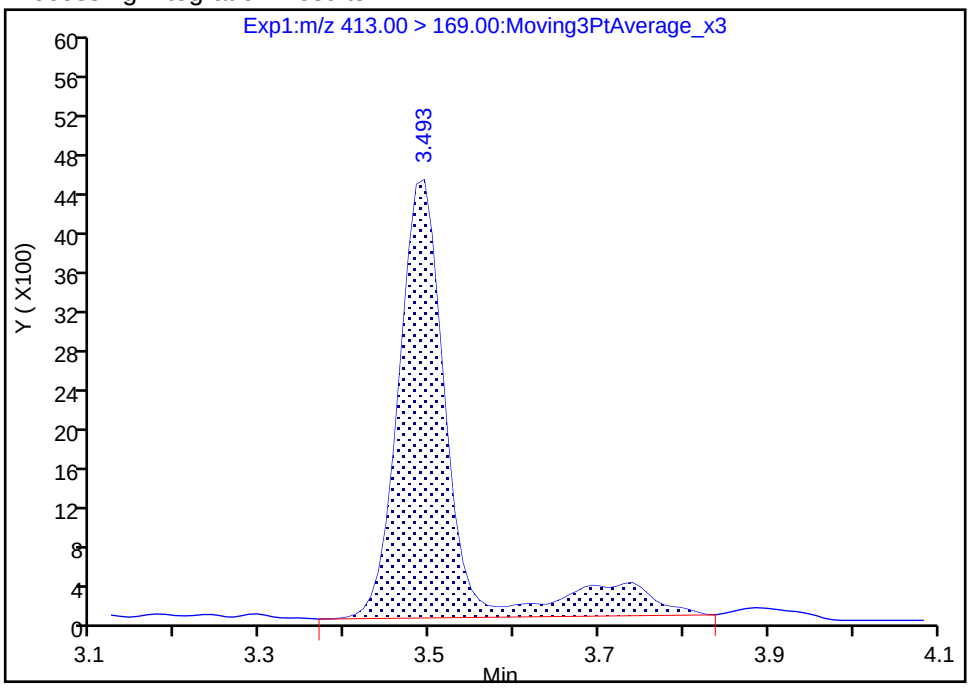
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL008.d				
Injection Date:	22-Dec-2020 12:48:13	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

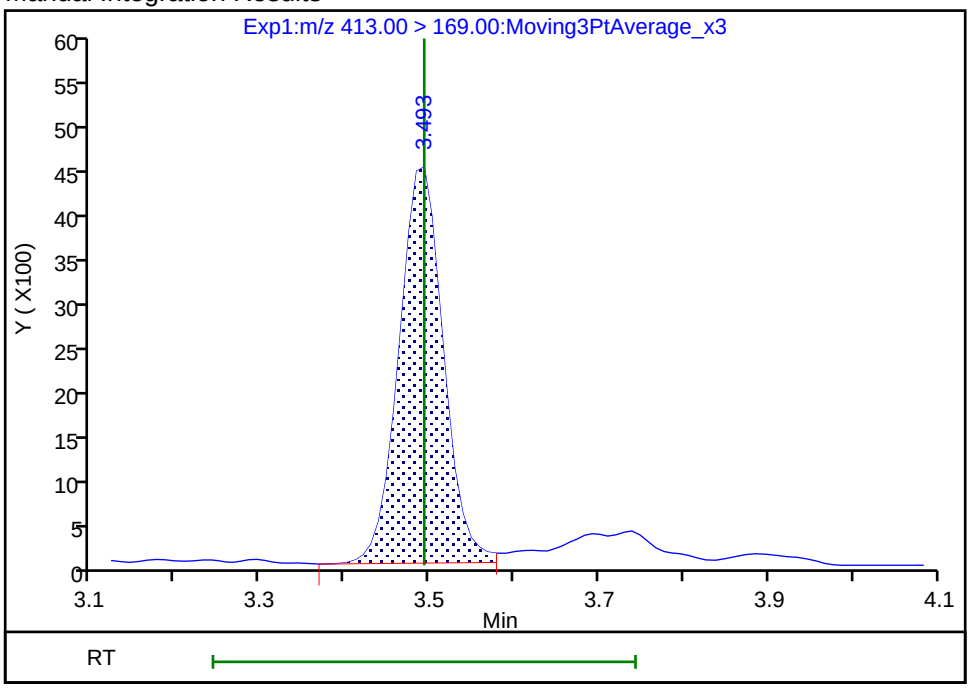
Processing Integration Results

RT: 3.49
Area: 19115
Amount: 0.048680
Amount Units: ng/ml



Manual Integration Results

RT: 3.49
Area: 16414
Amount: 0.052608
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:40:57

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

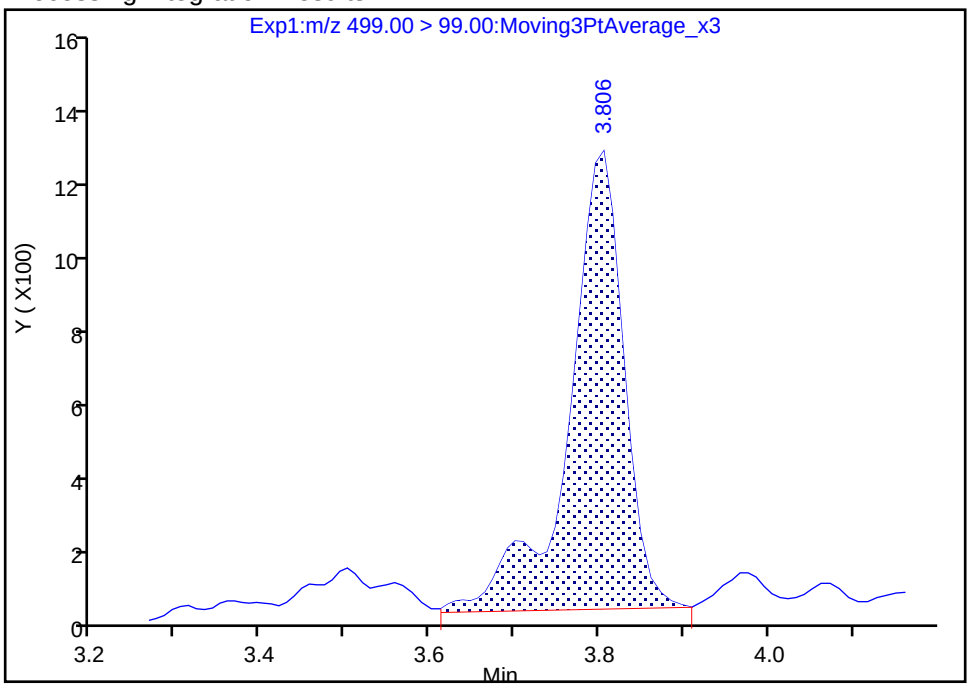
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL008.d				
Injection Date:	22-Dec-2020 12:48:13	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

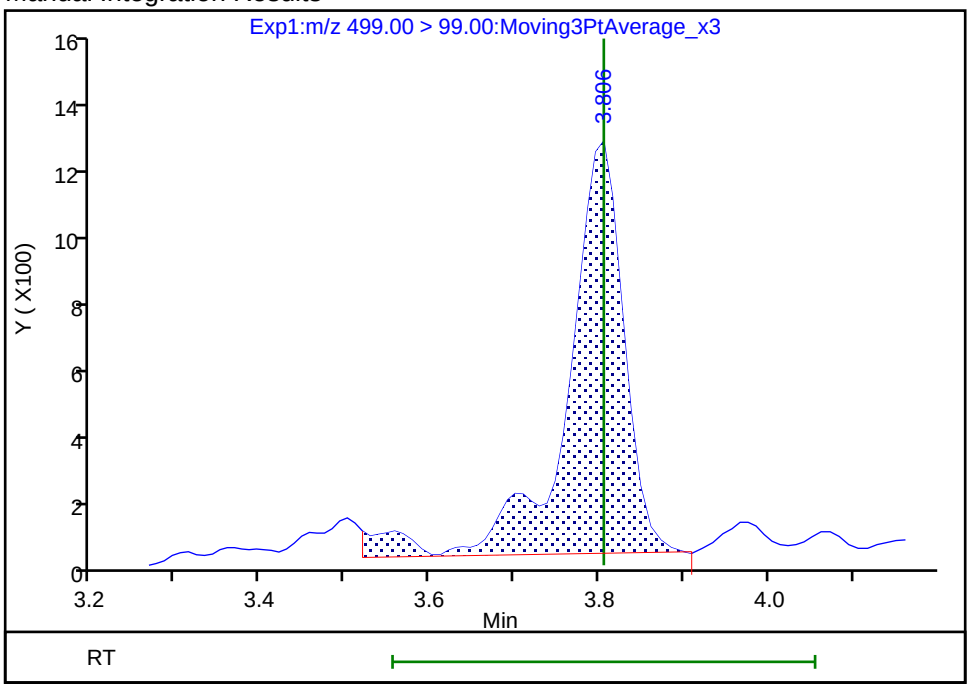
Processing Integration Results

RT: 3.81
Area: 5573
Amount: 0.046531
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 5749
Amount: 0.051360
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:41:31
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

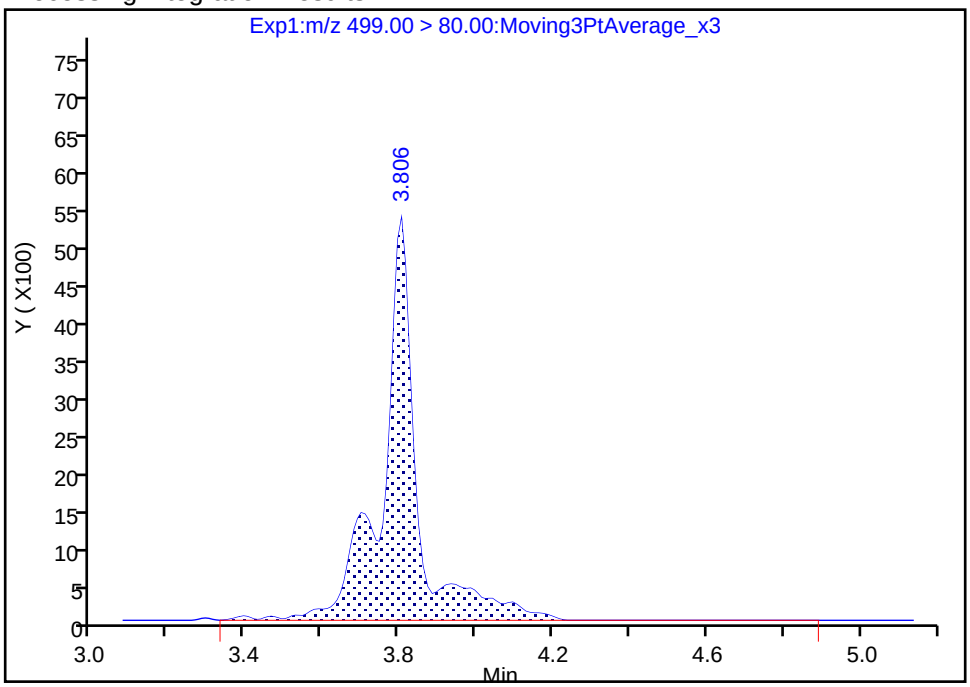
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL008.d				
Injection Date:	22-Dec-2020 12:48:13	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

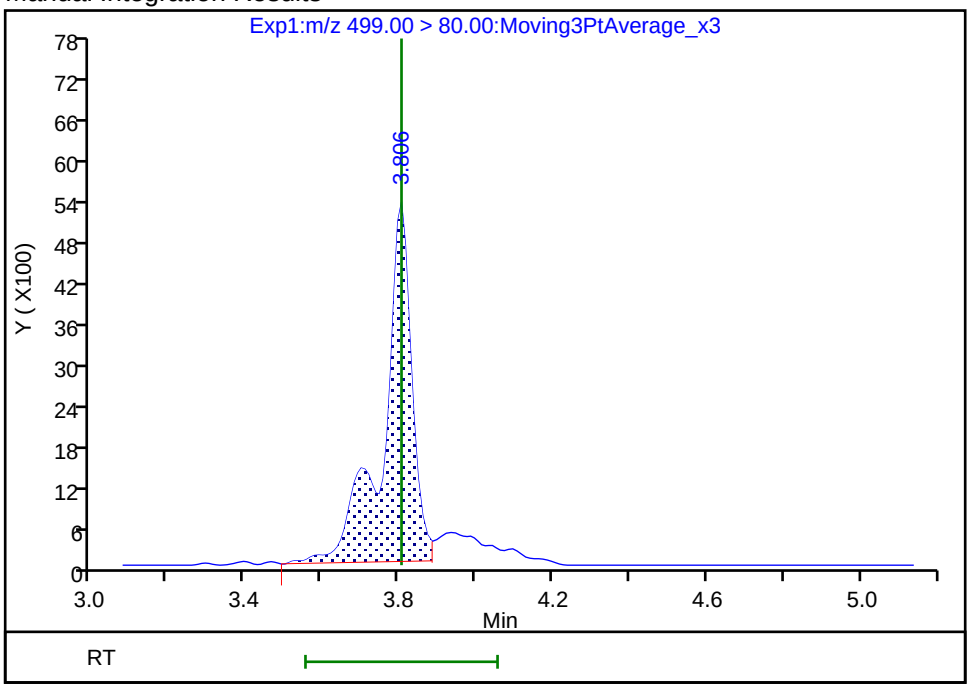
Processing Integration Results

RT: 3.81
Area: 33869
Amount: 0.046531
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 27324
Amount: 0.051360
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:41:52

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

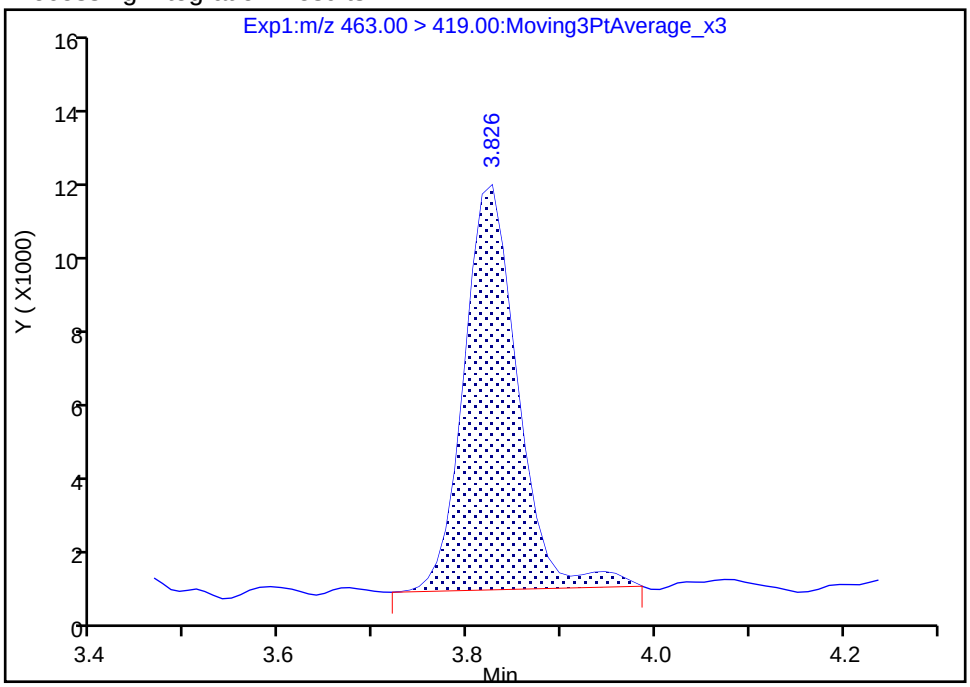
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL008.d				
Injection Date:	22-Dec-2020 12:48:13	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

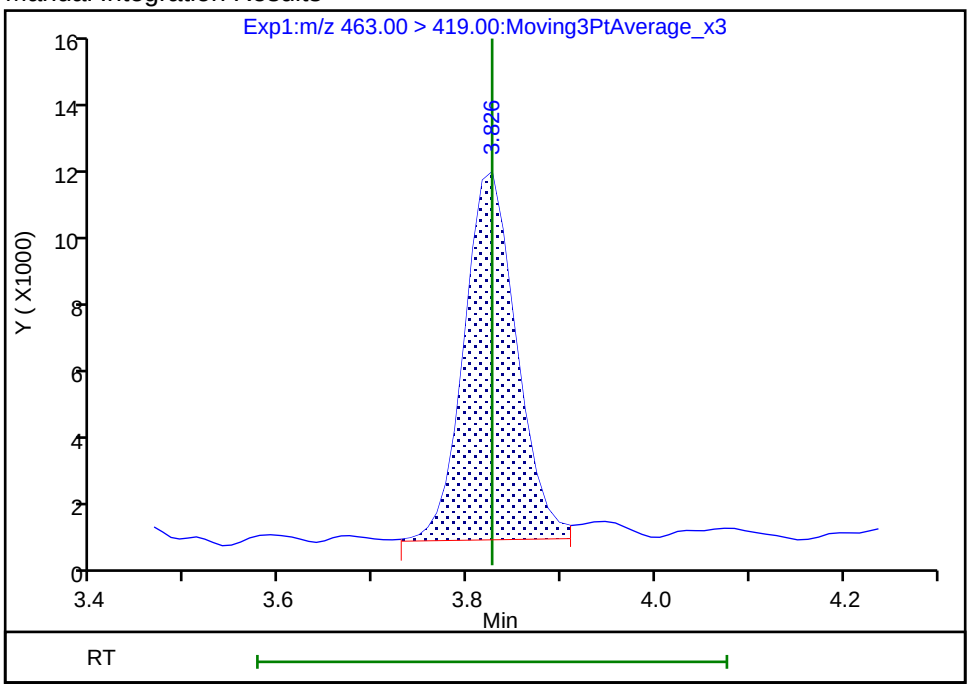
Processing Integration Results

RT: 3.83
Area: 40725
Amount: 0.050765
Amount Units: ng/ml



Manual Integration Results

RT: 3.83
Area: 40080
Amount: 0.057459
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:42:29
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

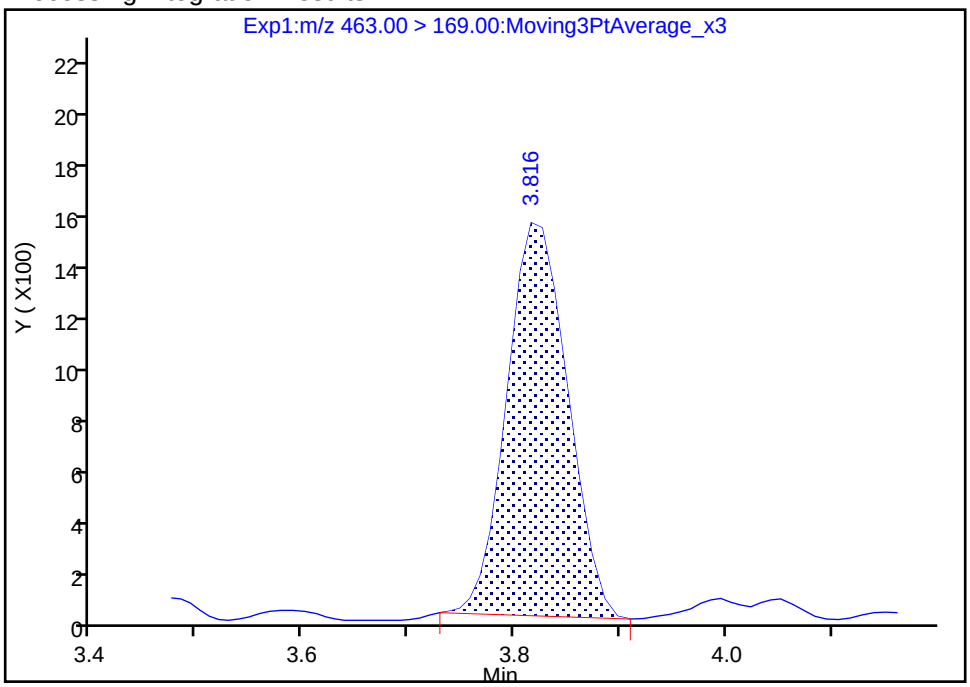
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL008.d				
Injection Date:	22-Dec-2020 12:48:13	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

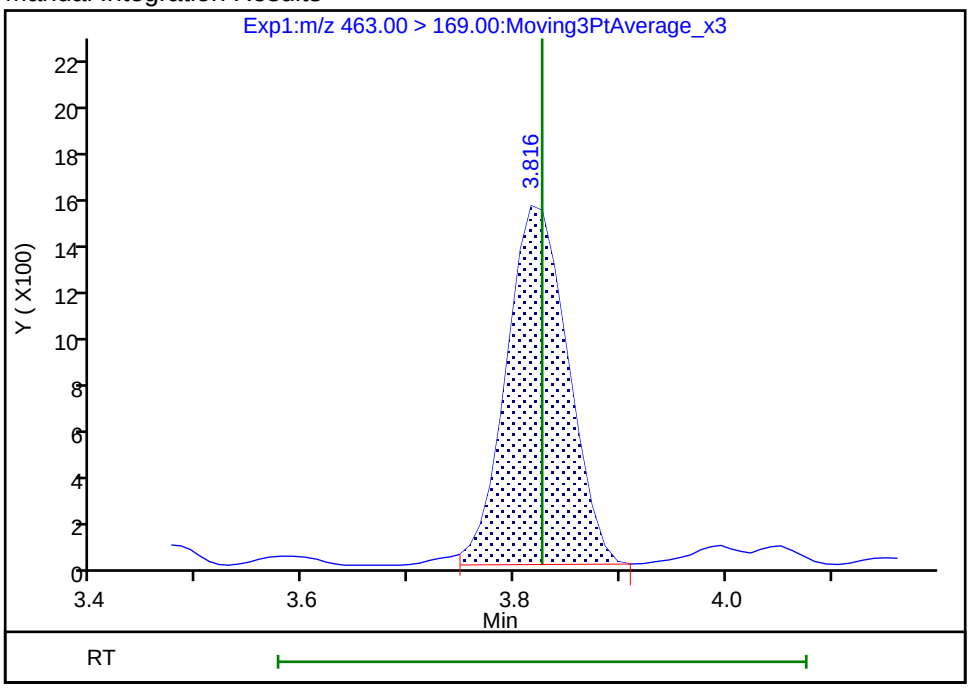
Processing Integration Results

RT: 3.82
Area: 6170
Amount: 0.050765
Amount Units: ng/ml



Manual Integration Results

RT: 3.82
Area: 6287
Amount: 0.057459
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:42:33

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

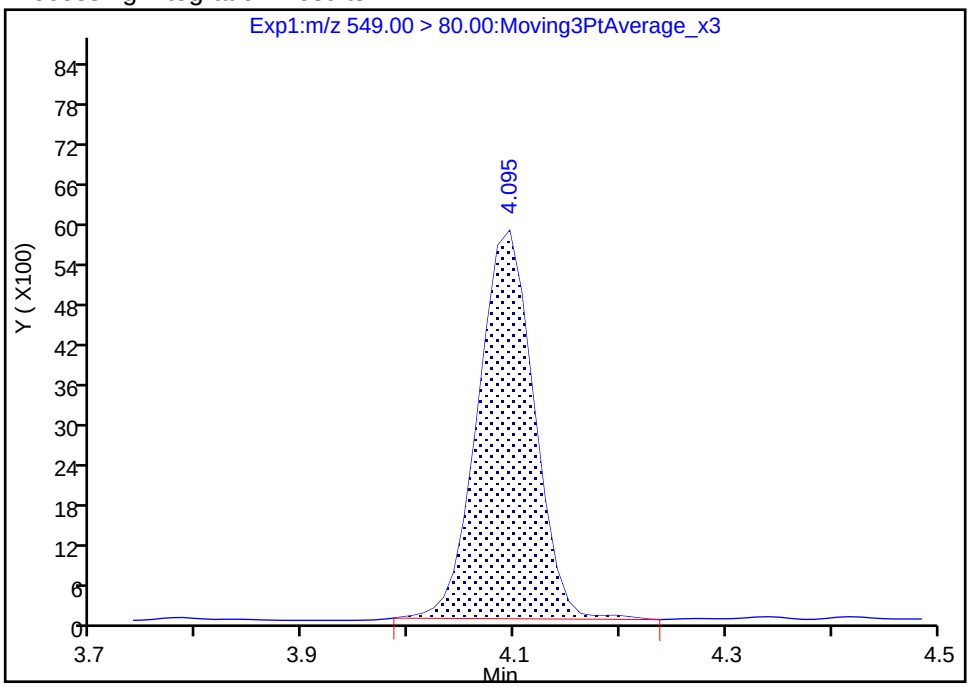
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL008.d				
Injection Date:	22-Dec-2020 12:48:13	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

68 Perfluorononanesulfonic acid, CAS: 68259-12-1

Signal: 1

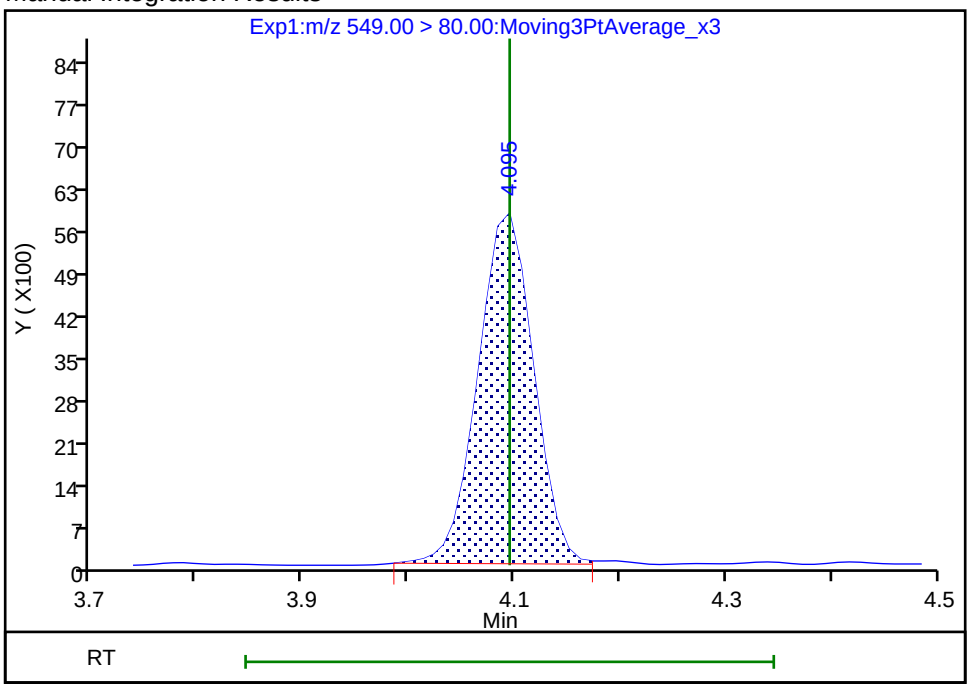
Processing Integration Results

RT: 4.10
Area: 21398
Amount: 0.047565
Amount Units: ng/ml



Manual Integration Results

RT: 4.10
Area: 21260
Amount: 0.053562
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:42:43

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

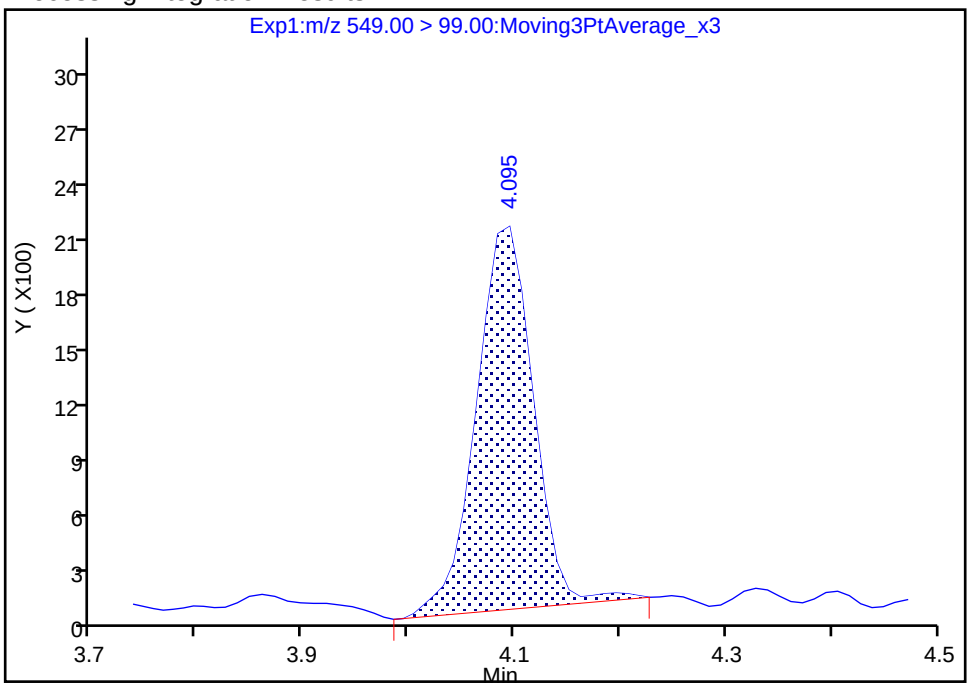
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL008.d				
Injection Date:	22-Dec-2020 12:48:13	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

68 Perfluorononanesulfonic acid, CAS: 68259-12-1

Signal: 2

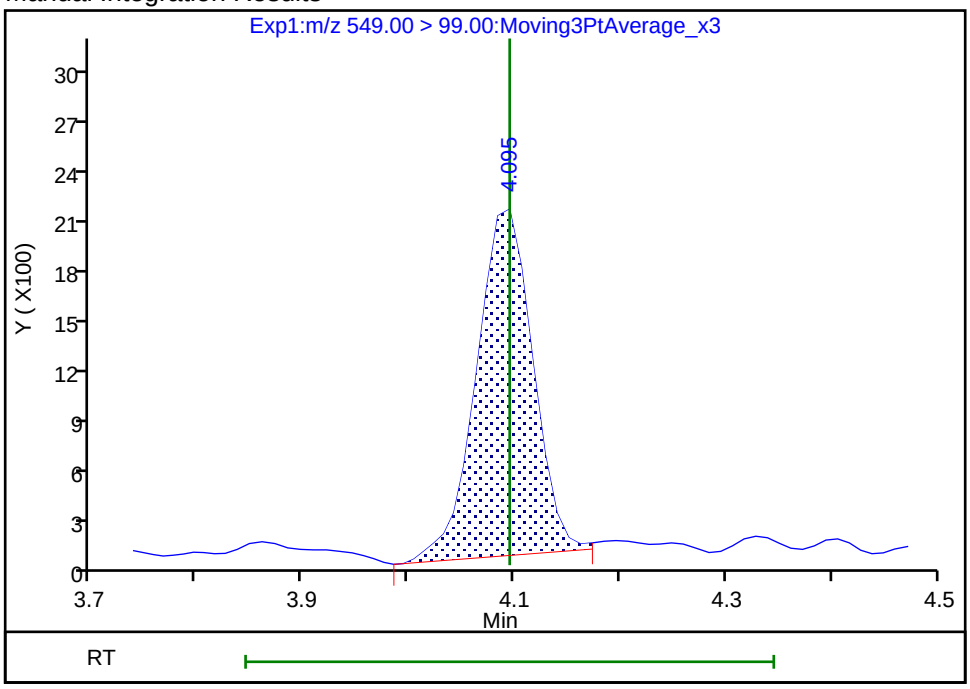
Processing Integration Results

RT: 4.10
Area: 7819
Amount: 0.047565
Amount Units: ng/ml



Manual Integration Results

RT: 4.10
Area: 7735
Amount: 0.053562
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:42:47

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

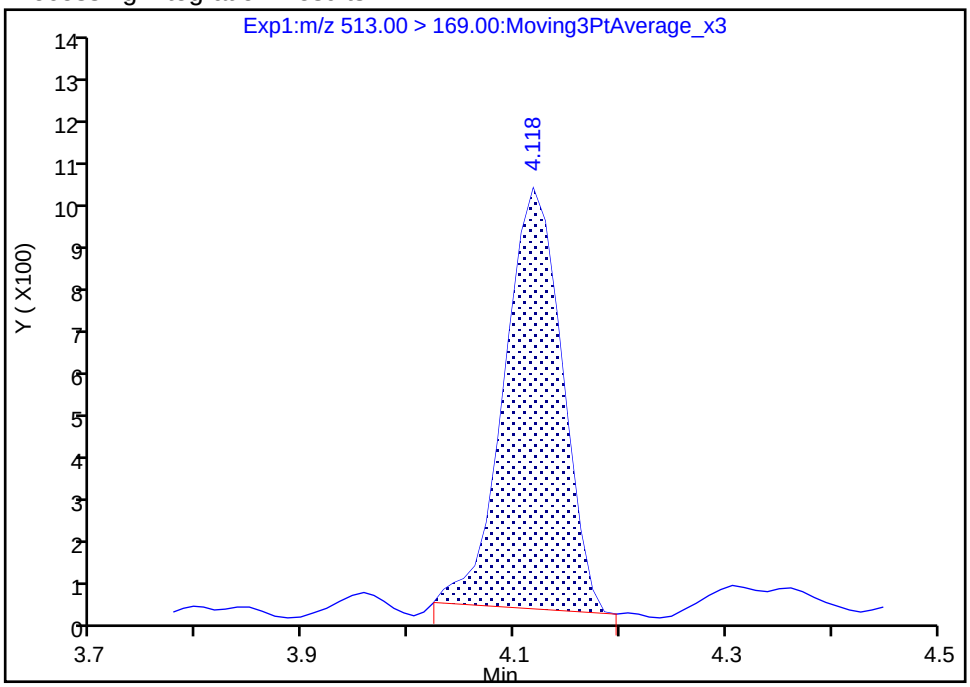
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL008.d				
Injection Date:	22-Dec-2020 12:48:13	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

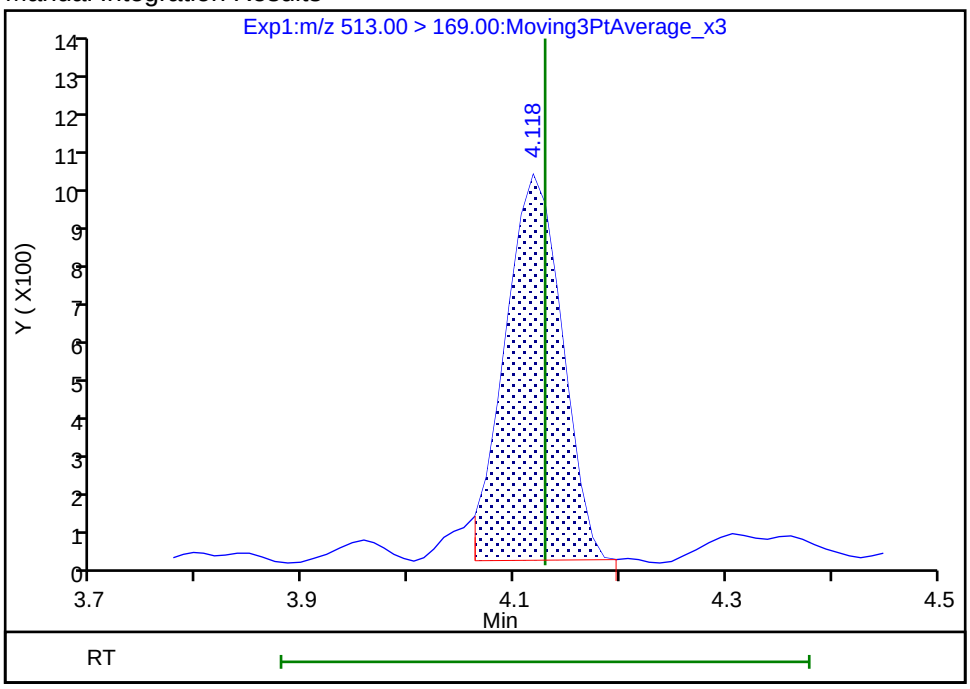
Processing Integration Results

RT: 4.12
Area: 3840
Amount: 0.047221
Amount Units: ng/ml



Manual Integration Results

RT: 4.12
Area: 3824
Amount: 0.051836
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:43:04
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

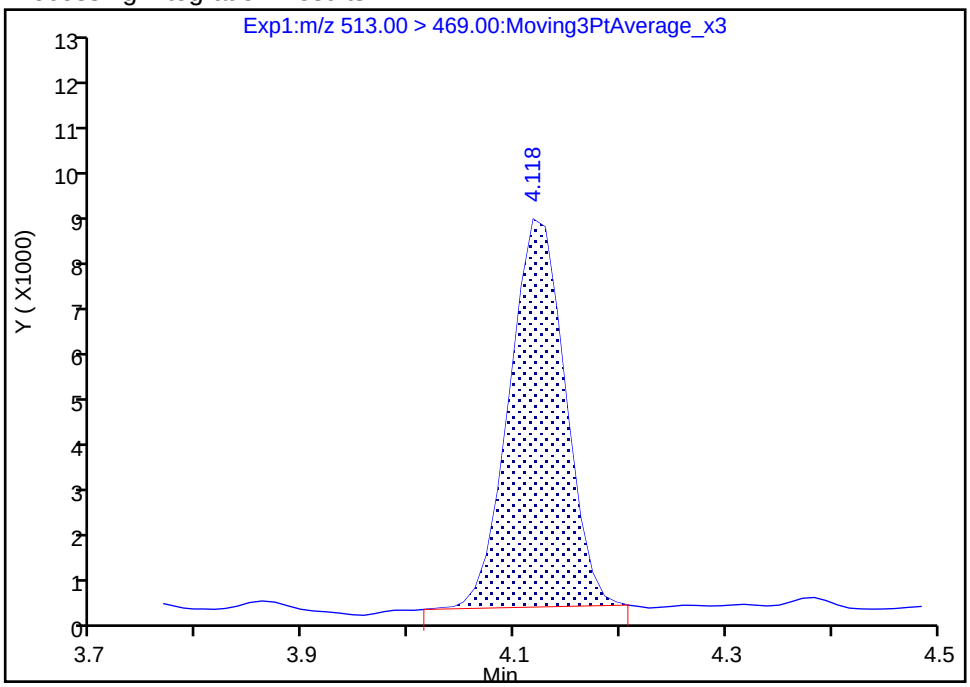
Data File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL008.d
Injection Date: 22-Dec-2020 12:48:13 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

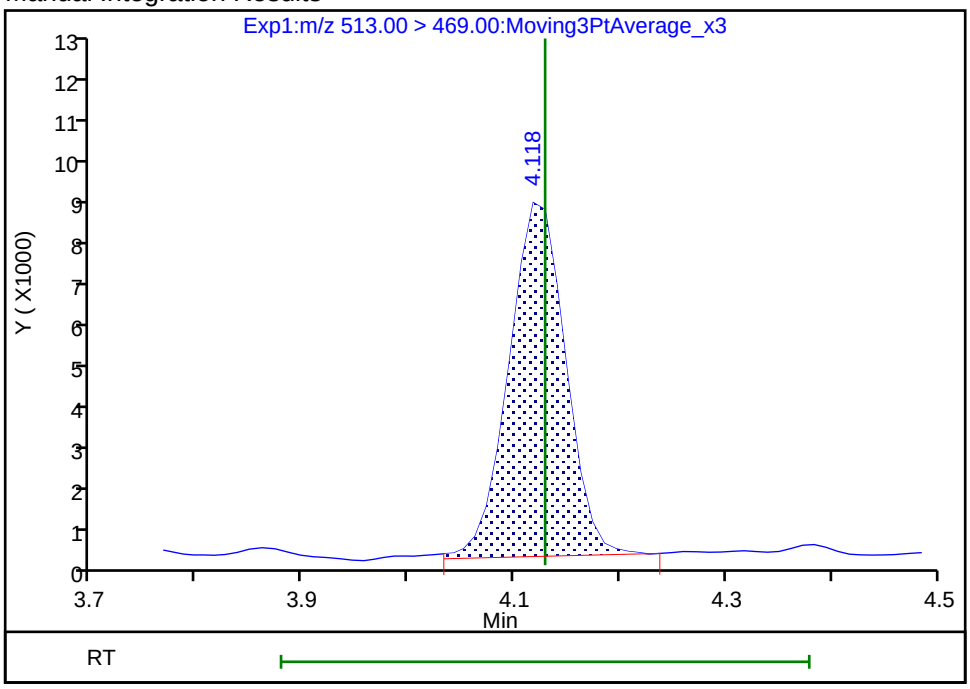
Processing Integration Results

RT: 4.12
Area: 30845
Amount: 0.047221
Amount Units: ng/ml



Manual Integration Results

RT: 4.12
Area: 31691
Amount: 0.051836
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:43:07
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

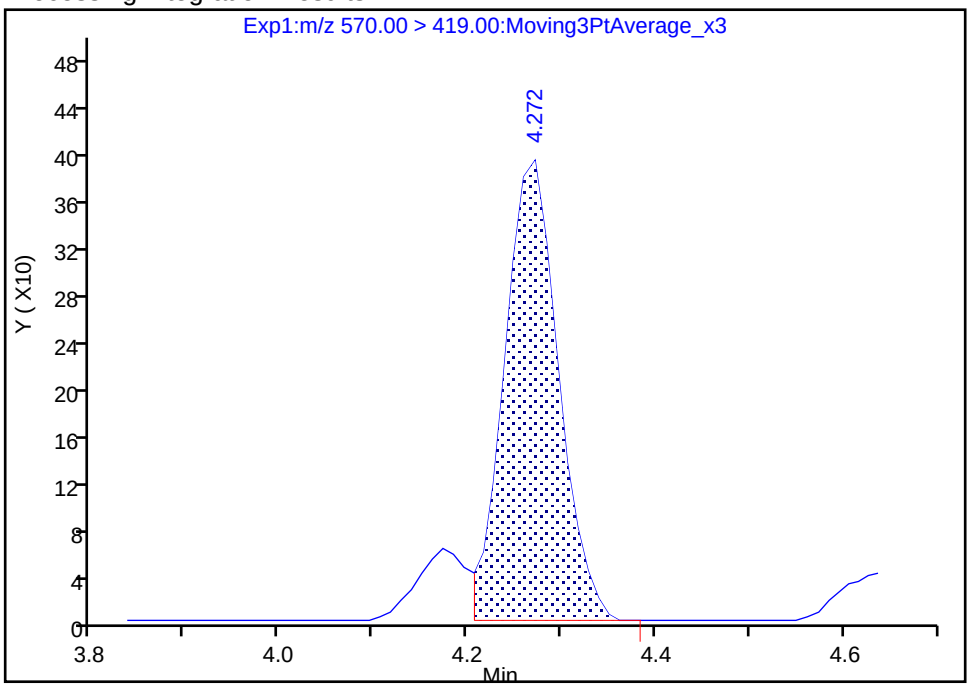
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL008.d				
Injection Date:	22-Dec-2020 12:48:13	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

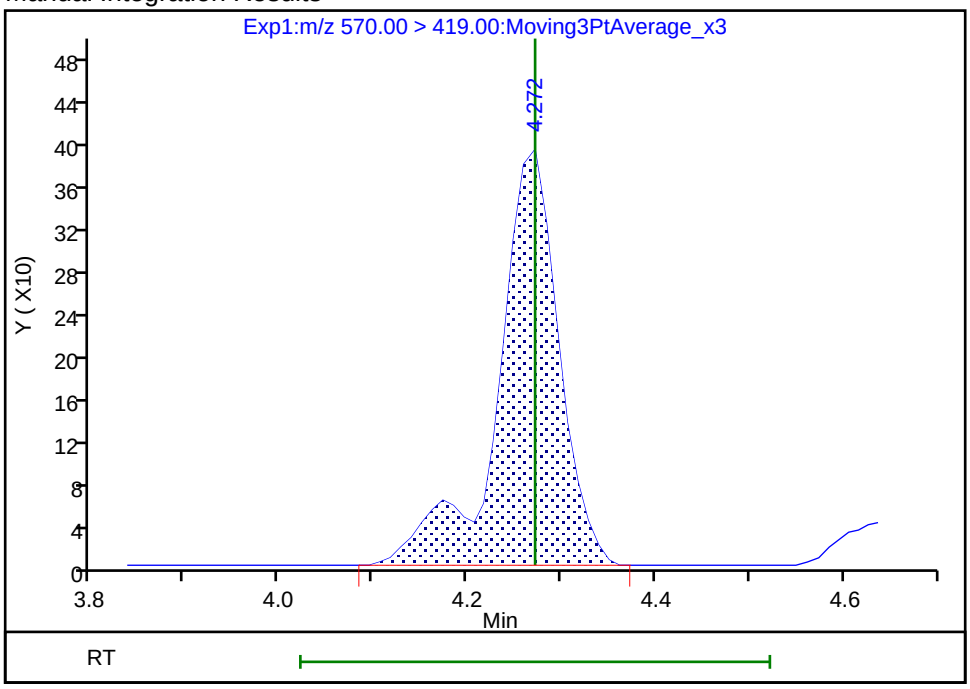
Processing Integration Results

RT: 4.27
Area: 1554
Amount: 0.046107
Amount Units: ng/ml



Manual Integration Results

RT: 4.27
Area: 1773
Amount: 0.050113
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:43:23

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

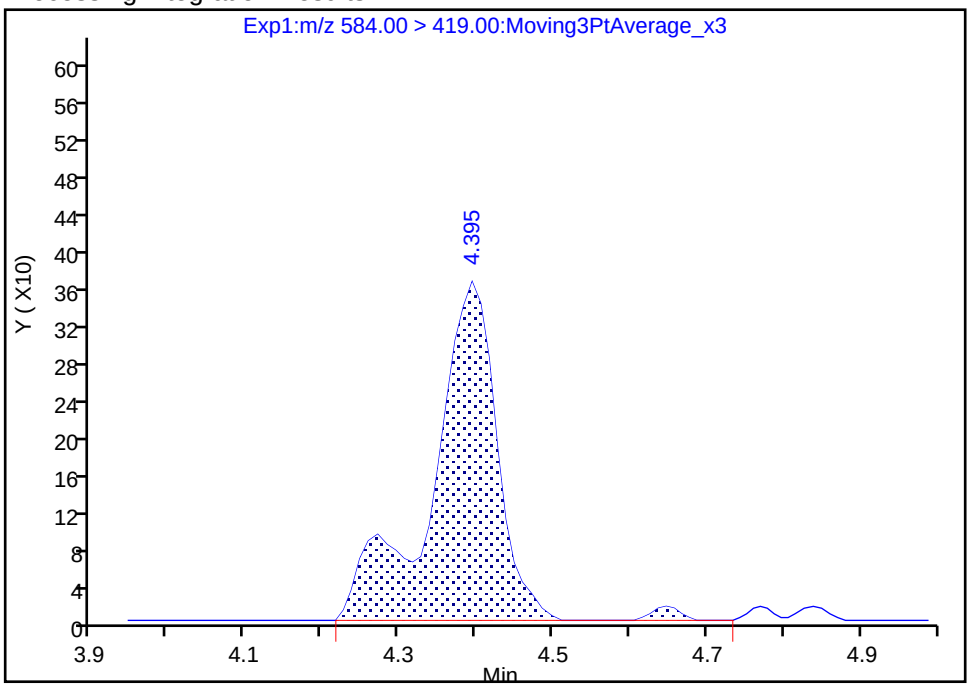
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL008.d				
Injection Date:	22-Dec-2020 12:48:13	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

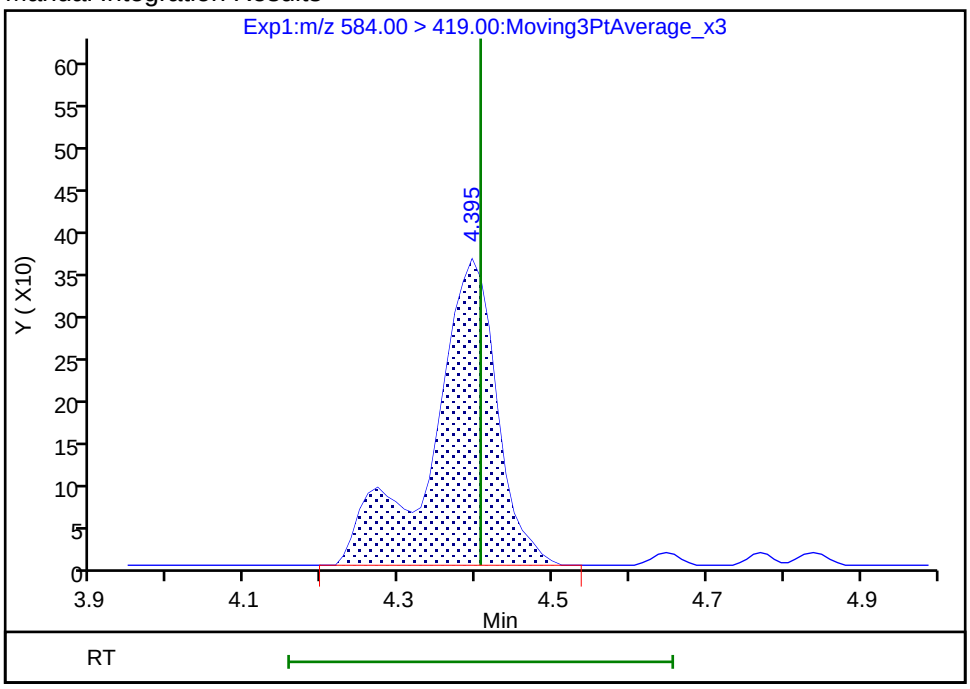
Processing Integration Results

RT: 4.39
Area: 2167
Amount: 0.054458
Amount Units: ng/ml



Manual Integration Results

RT: 4.39
Area: 2130
Amount: 0.058551
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:43:40
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

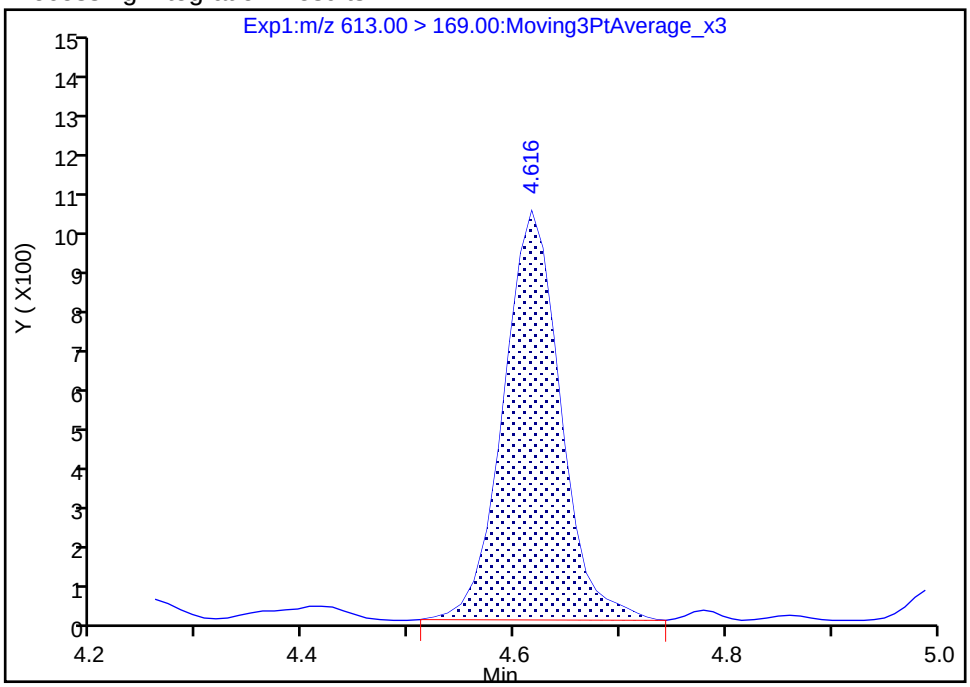
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL008.d				
Injection Date:	22-Dec-2020 12:48:13	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

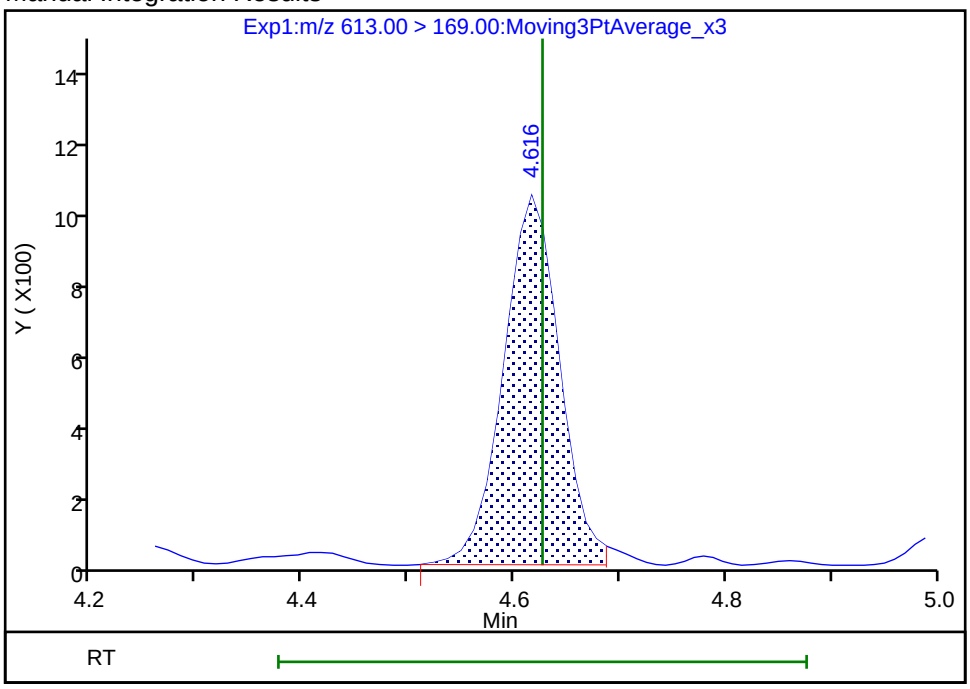
Processing Integration Results

RT: 4.62
Area: 3910
Amount: 0.048356
Amount Units: ng/ml



Manual Integration Results

RT: 4.62
Area: 3833
Amount: 0.054276
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:43:58
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

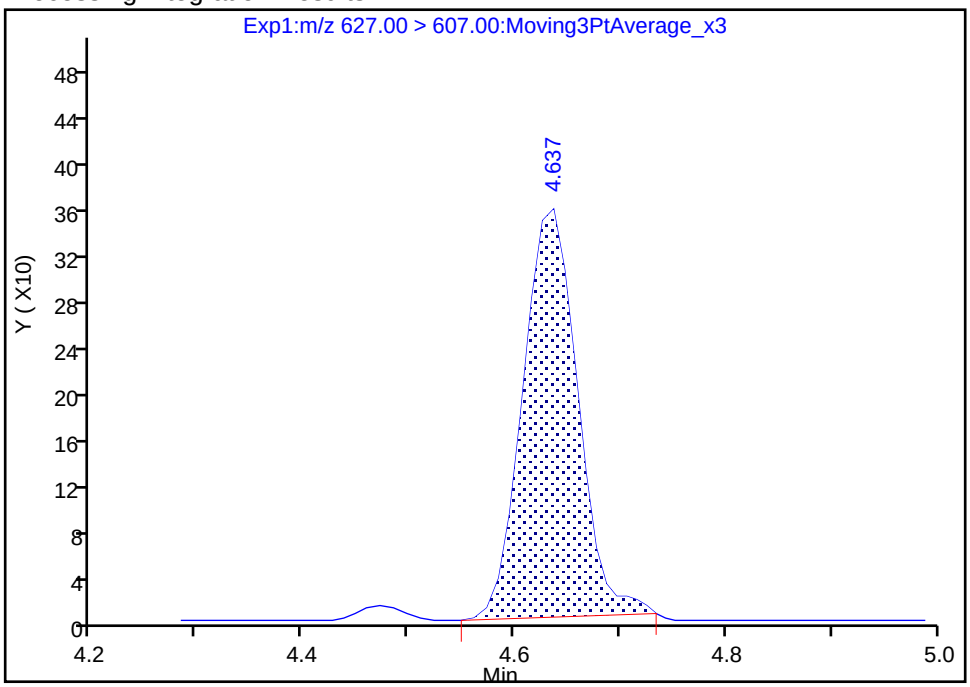
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL008.d				
Injection Date:	22-Dec-2020 12:48:13	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

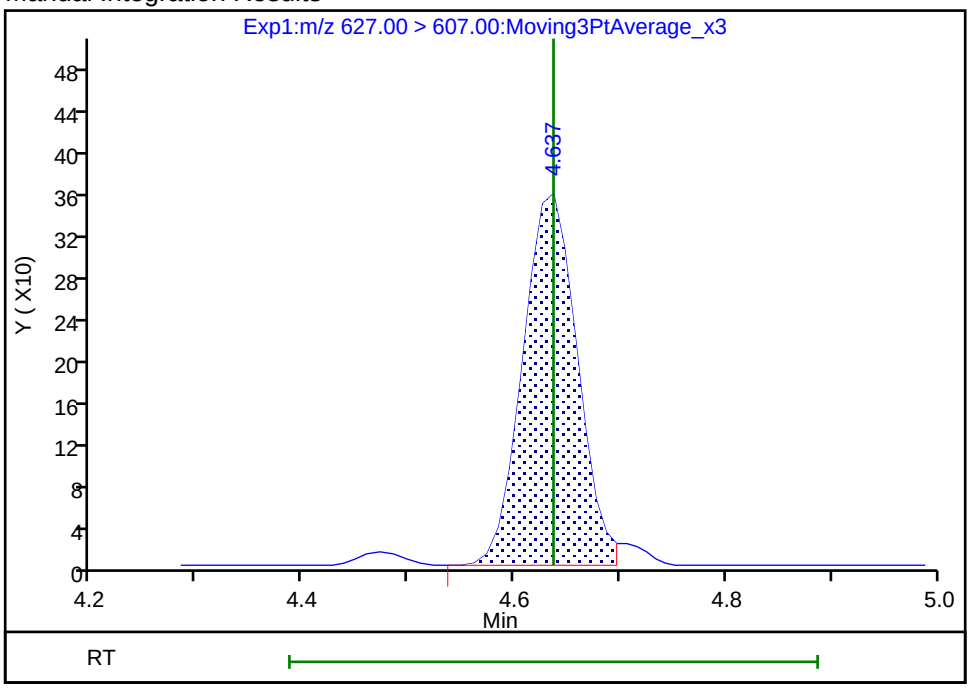
Processing Integration Results

RT: 4.64
Area: 1287
Amount: 0.045204
Amount Units: ng/ml



Manual Integration Results

RT: 4.64
Area: 1284
Amount: 0.040790
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:44:11
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

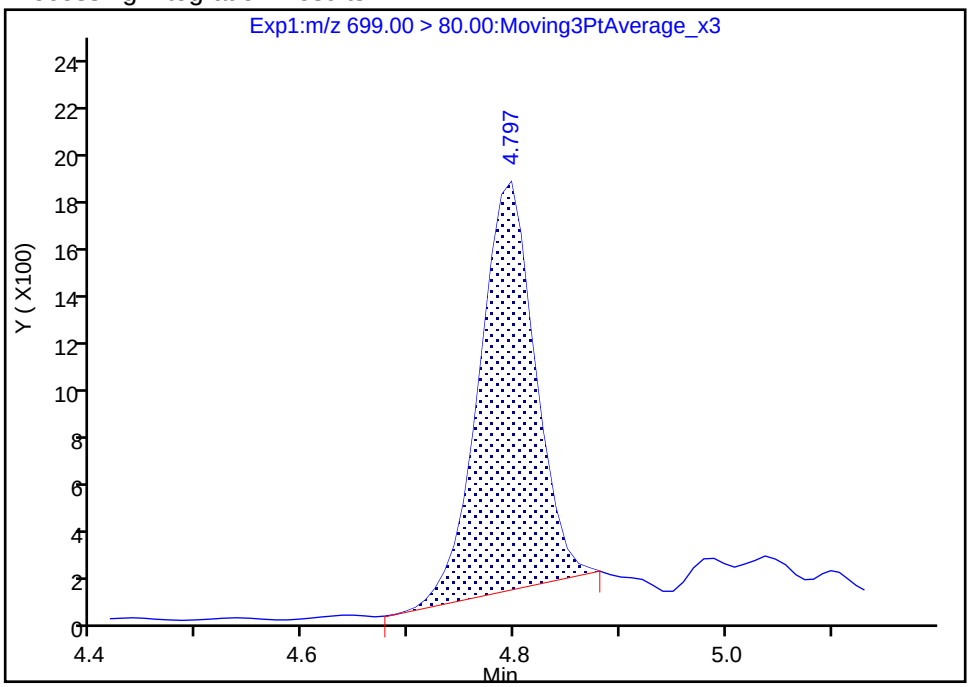
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL008.d				
Injection Date:	22-Dec-2020 12:48:13	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 1

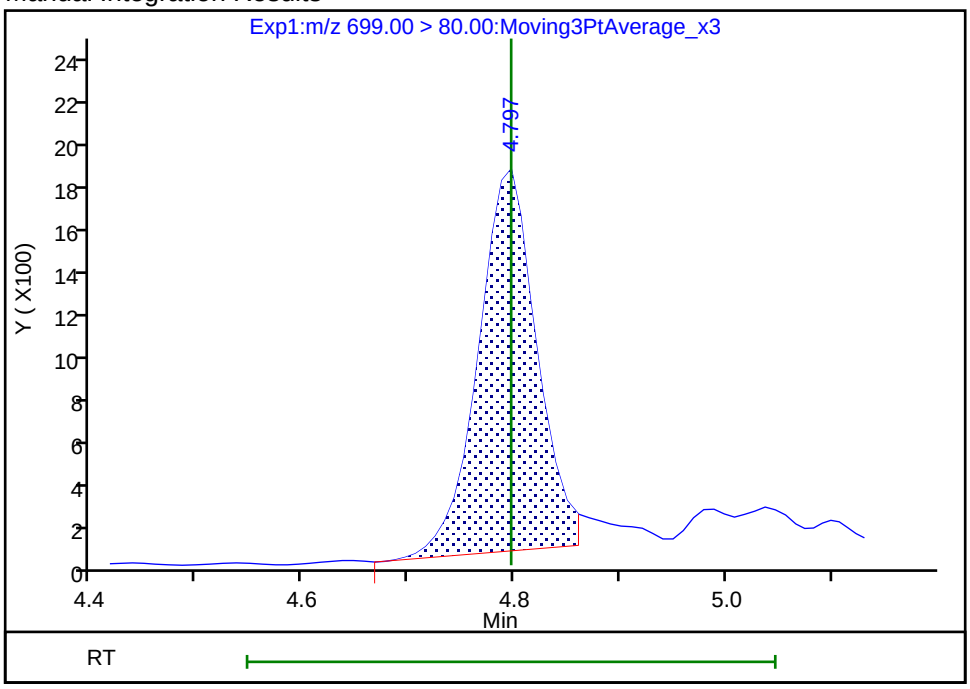
Processing Integration Results

RT: 4.80
Area: 6369
Amount: 0.047233
Amount Units: ng/ml



Manual Integration Results

RT: 4.80
Area: 6843
Amount: 0.058777
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:44:24
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

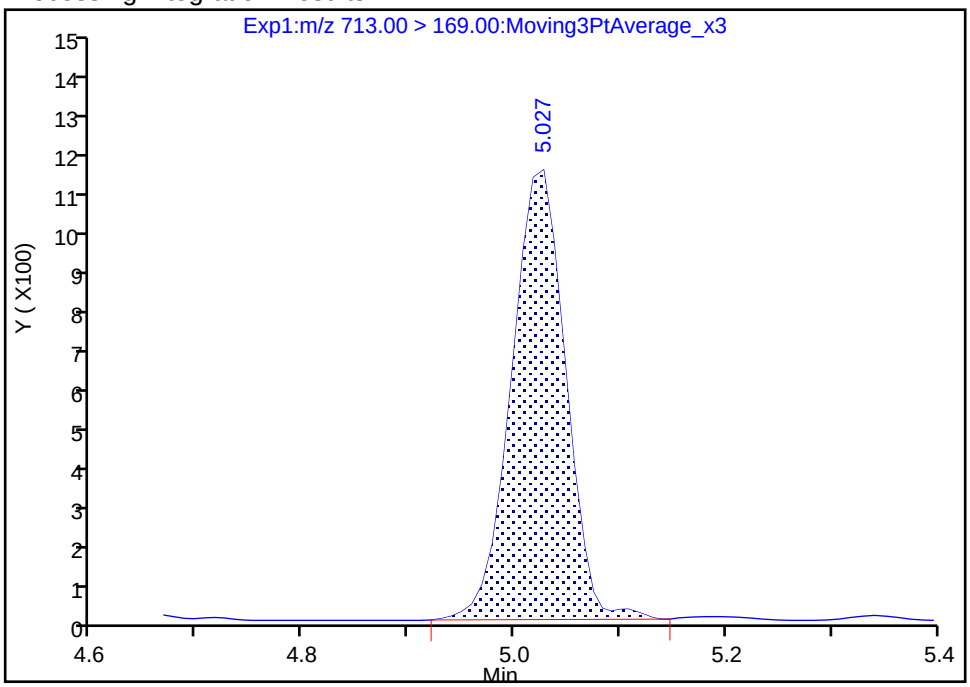
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL008.d				
Injection Date:	22-Dec-2020 12:48:13	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

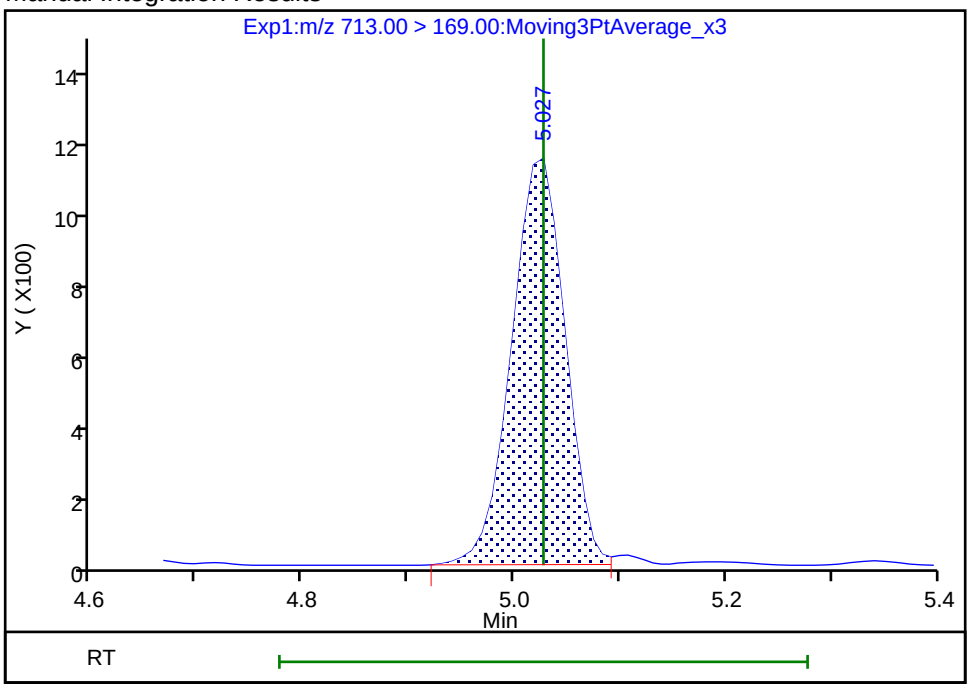
Processing Integration Results

RT: 5.03
Area: 3835
Amount: 0.052002
Amount Units: ng/ml



Manual Integration Results

RT: 5.03
Area: 3795
Amount: 0.055490
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:44:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

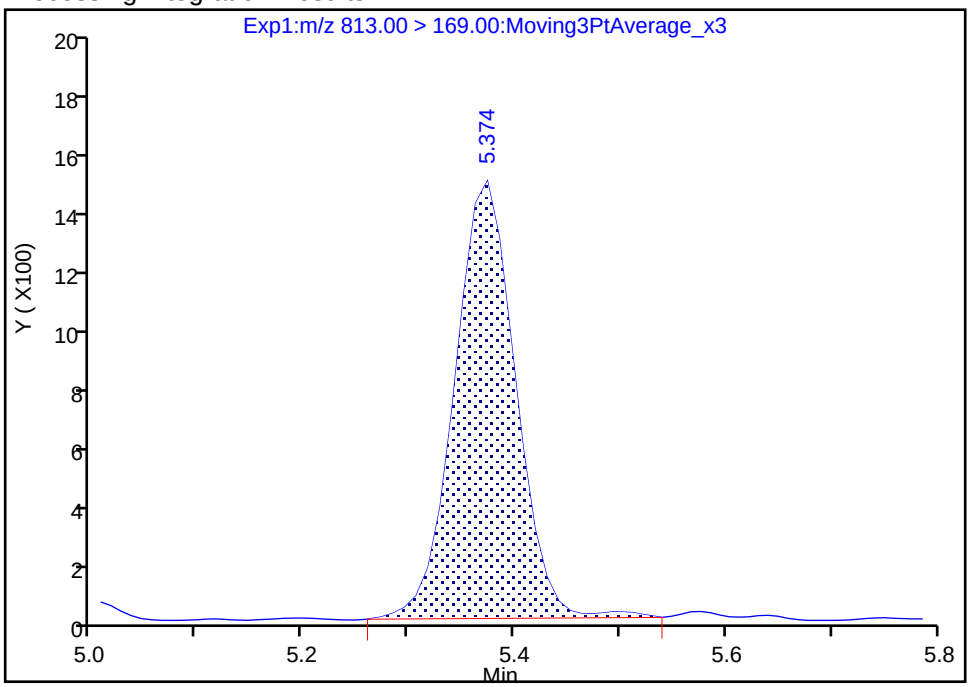
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL008.d				
Injection Date:	22-Dec-2020 12:48:13	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

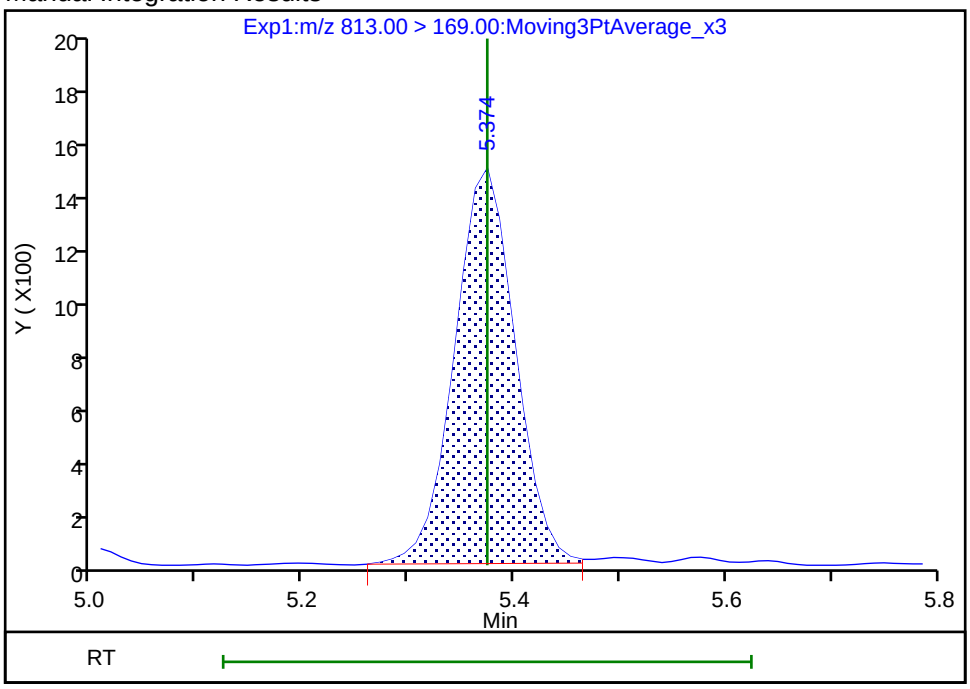
Processing Integration Results

RT: 5.37
Area: 5918
Amount: 0.048807
Amount Units: ng/ml



Manual Integration Results

RT: 5.37
Area: 5860
Amount: 0.048147
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:44:42
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL009.d
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 22-Dec-2020 12:56:31 ALS Bottle#: 3 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 200-0044184-009 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812
Sublist: chrom-PFC_LC812*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 22-Dec-2020 14:39:23 Calib Date: 22-Dec-2020 13:29:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1625

First Level Reviewer: deannd Date: 22-Dec-2020 13:14:51
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.089	2.091	-0.002	0.598	1386458	1.17		93.5	10763	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.089	2.091	-0.002	1.000	118541	0.1067		107	14.5	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.411	2.414	-0.003	0.690	1030251	1.20		96.1	3380	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.411	2.414	-0.003	1.000	99455	0.1090		109	4.0	
D 47 13C3 PFBS										
301.90 > 80.00	2.424	2.427	-0.003	0.694	1277928	1.13		97.4	252272	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.424	2.427	-0.003	1.000	116878	0.0940	Target=2.21	106	312	
298.90 > 99.00	2.424	2.427	-0.003	1.000	52401		2.23(1.10-3.31)	106	67.4	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.732	2.735	-0.003	1.000	15740	0.0886		94.9	312	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.732	2.735	-0.003	0.782	113101	1.20		103	114	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.756	2.771	-0.015	0.789	1097468	1.22		97.7	3242	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.768	2.771	-0.003	1.004	95637	0.0997	Target=12.17	99.7	23.1	
313.00 > 119.00	2.756	2.771	-0.015	1.000	8260		11.58(6.09-18.26)	99.7	14.9	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.768	2.771	-0.003	0.884	105420	0.0994	Target=3.32	106	388	
349.00 > 99.00	2.768	2.771	-0.003	0.884	33039		3.19(1.66-4.98)	106	68.2	M
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.866	2.881	-0.015	0.996	21331	0.1039		104	2.4	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.878	2.881	-0.003	0.824	185233	1.17		93.7	1519	
D 11 18O2 PFHxS										
403.00 > 84.00	3.132	3.133	-0.001	0.897	956077	1.14		96.3	3982	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.122	3.133	-0.011	0.997	94508	0.0992	Target=4.08	109	112	M
399.00 > 99.00	3.122	3.133	-0.011	0.997	22626		4.18(2.04-6.11)	109	20.2	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.132	3.133	-0.001	0.897	1019298	1.18		94.8	1684	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.132	3.133	-0.001	1.000	99874	0.1121	Target=3.70	112	26.0	M
363.00 > 169.00	3.132	3.133	-0.001	1.000	25333		3.94(1.85-5.56)	112	73.0	
77 DONA										
377.00 > 251.00	3.164	3.176	-0.012	0.832	183369	0.0959	Target=2.47	102	246	
377.00 > 85.00	3.164	3.176	-0.012	0.832	75776		2.42(1.23-3.70)	102	77.5	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.474	3.484	-0.010	0.913	77228	0.1002	Target=5.85	105	802	
449.00 > 99.00	3.474	3.484	-0.010	0.913	13156		5.87(2.93-8.78)	105	96.8	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.483	3.484	-0.001	0.997	122975	1.17		98.8	426	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.483	3.484	-0.001	1.000	10738	0.0932		98.3	187	M
D 14 13C4 PFOA										
417.00 > 372.00	3.492	3.493	-0.001	1.000	1101215	1.26		101	3358	
* 62 13C2 PFOA										
415.00 > 370.00	3.492	3.493	-0.001		1103718	1.25			2862	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.492	3.493	-0.001	1.000	98345	0.1030	Target=2.58	103	23.3	
413.00 > 169.00	3.492	3.493	-0.001	1.000	37378		2.63(1.29-3.87)	103	85.8	M
D 18 13C4 PFOS										
503.00 > 80.00	3.804	3.806	-0.002	1.089	682230	1.18		99.0	1801	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.804	3.806	-0.002	1.000	64913	0.0989	Target=5.56	107	101	M
499.00 > 99.00	3.804	3.806	-0.002	1.000	11330		5.73(2.78-8.34)	107	48.4	M
D 19 13C5 PFNA										
468.00 > 423.00	3.825	3.826	-0.001	1.095	964938	1.25		100	2839	
20 Perfluorononanoic acid										
463.00 > 419.00	3.825	3.826	-0.001	1.000	87340	0.1022	Target=6.87	102	14.1	
463.00 > 169.00	3.825	3.826	-0.001	1.000	12785		6.83(3.43-10.30)	102	160	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.964	3.967	-0.003	1.042	66060	0.0902		96.8	406	
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.093	4.095	-0.002	1.076	49994	0.1021	Target=2.78	106	545	
549.00 > 99.00	4.093	4.095	-0.002	1.076	17680		2.83(1.39-4.17)	106	50.1	M
D 23 13C2 PFDA										
515.00 > 470.00	4.115	4.129	-0.014	1.178	926205	1.26		101	5089	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.126	4.129	-0.003	1.003	77566	0.1016	Target=9.03	102	57.4	
513.00 > 169.00	4.126	4.129	-0.003	1.003	7425		10.45(4.51-13.54)	102	62.2	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.126	4.140	-0.014	1.000	7849	0.1100		115	208	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.126	4.140	-0.014	1.182	125650	1.16		97.0	549	
D 21 13C8 FOSA										
506.00 > 78.00	4.205	4.207	-0.002	1.204	1350960	1.25		99.8	3463	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.205	4.207	-0.002	1.000	113239	0.1046		105	482	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.257	4.272	-0.015	1.219	69887	1.31		105	615	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.268	4.272	-0.004	1.003	5218	0.1053		105	32.7	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.358	4.362	-0.004	1.146	38256	0.0980	Target=2.76	102	327	
599.00 > 99.00	4.358	4.362	-0.004	1.146	13445		2.85(1.38-4.14)	102	58.5	
D 30 13C2 PFUnA										
565.00 > 520.00	4.391	4.384	0.007	1.257	753171	1.24		99.5	3341	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.391	4.395	-0.004	1.000	64357	0.1047	Target=8.02	105	26.8	
563.00 > 169.00	4.391	4.395	-0.004	1.000	7377		8.72(4.01-12.03)	105	119	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.391	4.395	-0.004	1.257	66544	1.29		103	433	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.402	4.406	-0.004	1.003	4802	0.0974		97.4	108	M
66 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.480	4.485	-0.005	1.178	70930	0.0933		99.1	820	
D 36 13C2 PFDoA										
615.00 > 570.00	4.622	4.626	-0.004	1.323	777582	1.22		97.3	2674	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.622	4.626	-0.004	1.000	72835	0.1065	Target=6.85	106	20.2	
613.00 > 169.00	4.622	4.626	-0.004	1.000	10752		6.77(3.42-10.27)	106	245	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.632	4.637	-0.005	1.123	3634	0.0989		103	126	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.792	4.797	-0.005	1.260	14504	0.1009	Target=0.53	104	41.0	
699.00 > 99.00	4.792	4.797	-0.005	1.260	28153		0.52(0.26-0.79)	104	181	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.834	4.839	-0.005	1.046	56462	0.1017	Target=4.48	102	18.4	
663.00 > 169.00	4.822	4.839	-0.017	1.043	12265		4.60(2.24-6.72)	102	220	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.024	5.027	-0.003	1.439	598063	1.27		101	5734	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.024	5.027	-0.003	1.000	8395	0.0946	Target=0.99	94.6	246	
713.00 > 219.00	5.014	5.027	-0.013	0.998	8166		1.03(0.50-1.49)	94.6	233	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.372	5.374	-0.002	1.538	635237	1.26		101	1942	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.372	5.374	-0.002	1.000	55625	0.1023	Target=4.02	102	14.4	
813.00 > 169.00	5.372	5.374	-0.002	1.000	13256		4.20(2.01-6.02)	102	365	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.720	5.722	-0.002	1.065	45299	0.0991	Target=3.88	99.1	29.9	
913.00 > 169.00	5.711	5.722	-0.011	1.063	11915		3.80(1.94-5.82)	99.1	261	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC2_00006 Amount Added: 100.00 Units: uL

Report Date: 22-Dec-2020 14:39:24 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL009.d

Injection Date: 22-Dec-2020 12:56:31 Instrument ID: LC812

Lims ID: IC

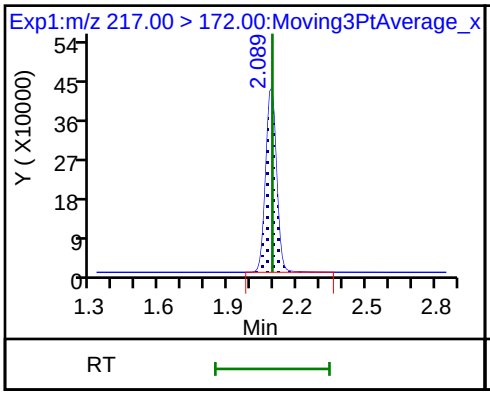
Client ID:

Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 9

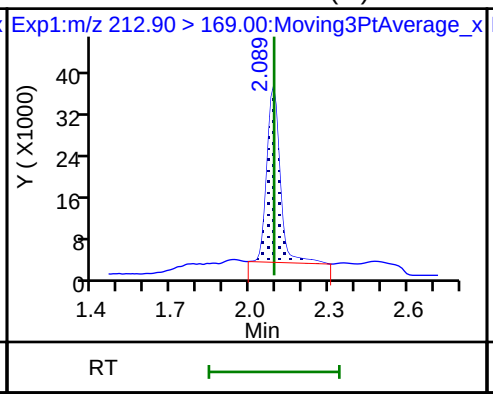
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

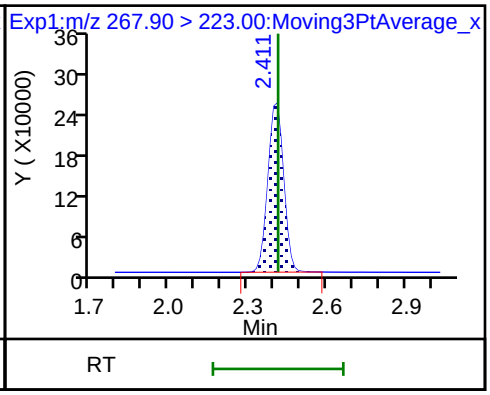
D 1 13C4 PFBA



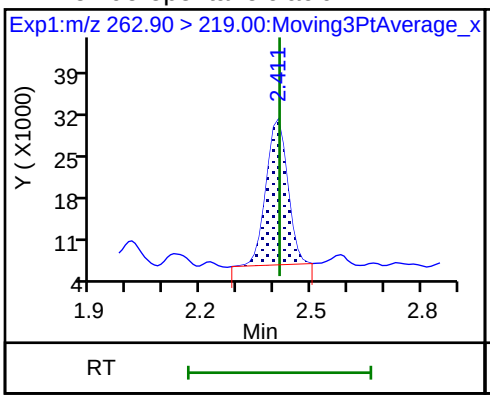
2 Perfluorobutanoic acid (M)



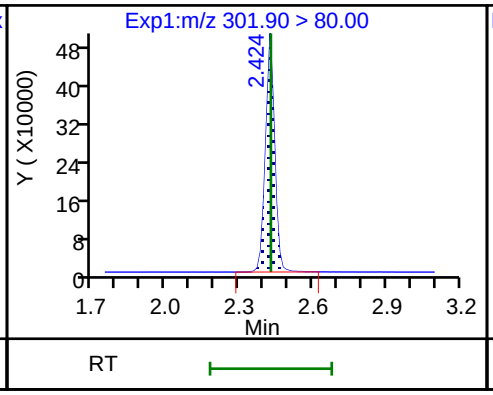
D 3 13C5 PFPeA



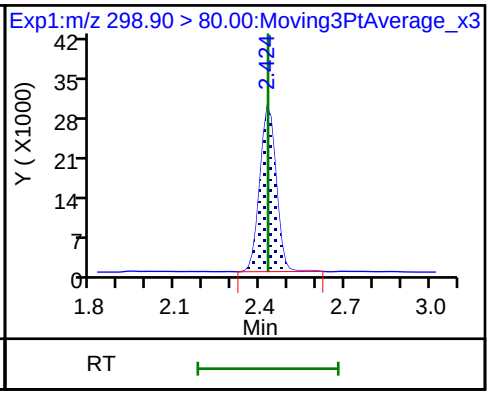
4 Perfluoropentanoic acid



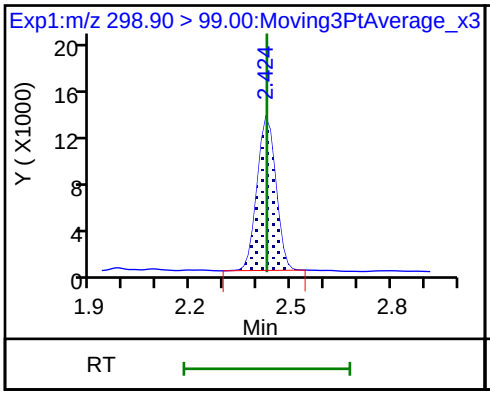
D 47 13C3 PFBS



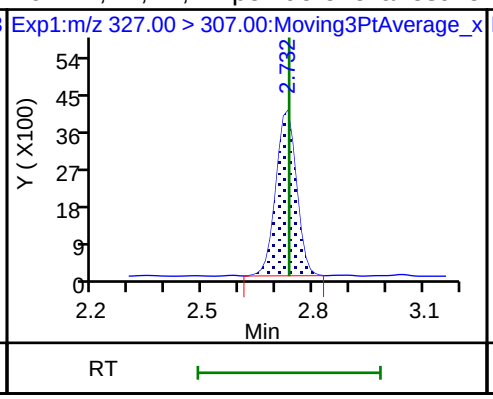
5 Perfluorobutanesulfonic acid



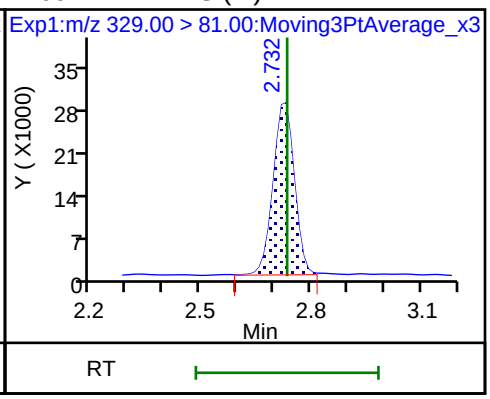
5 Perfluorobutanesulfonic acid



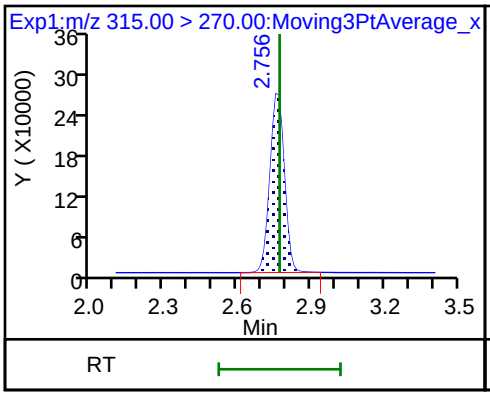
61 1H,1H,2H,2H-perfluorohexanesulfo



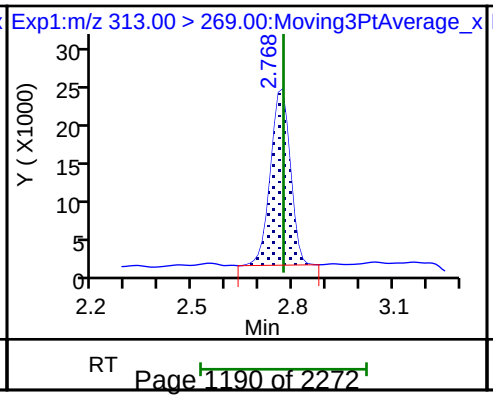
D 60 M2-4:2 FTS (M)



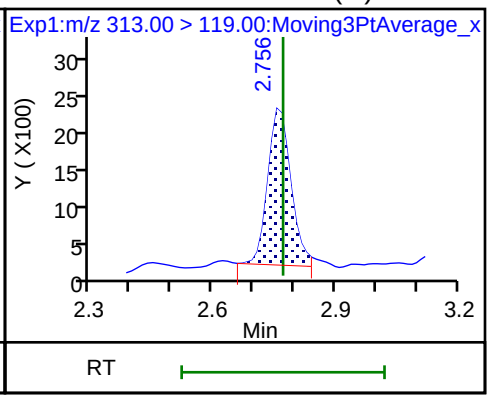
D 7 13C2 PFHxA



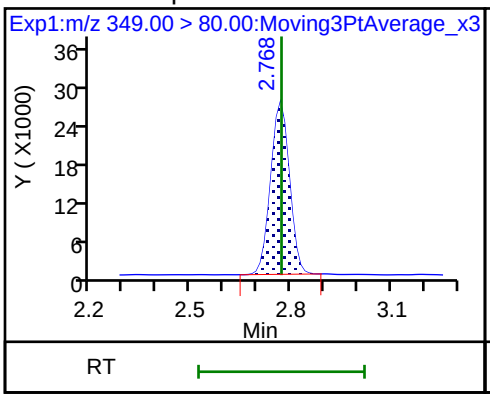
6 Perfluorohexanoic acid



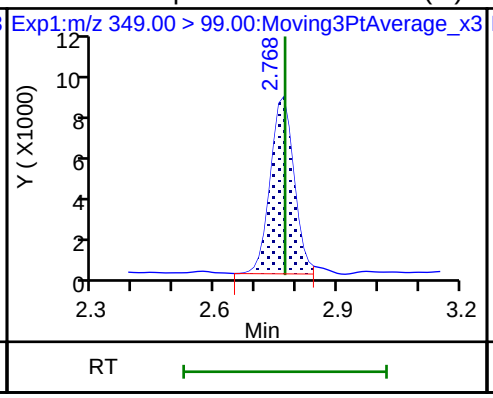
6 Perfluorohexanoic acid (M)



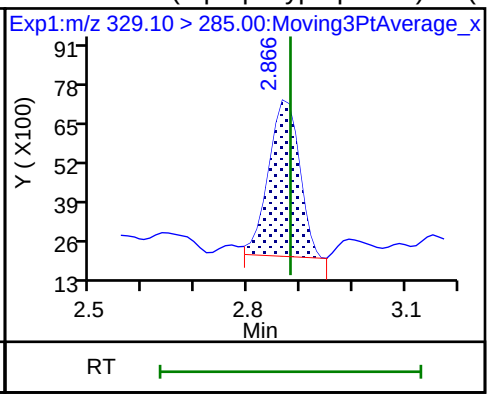
70 Perfluoropentanesulfonic acid



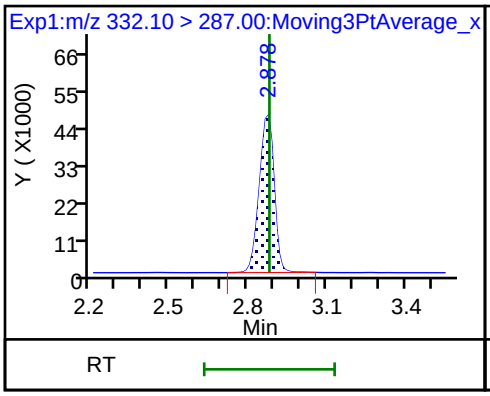
70 Perfluoropentanesulfonic acid (M)



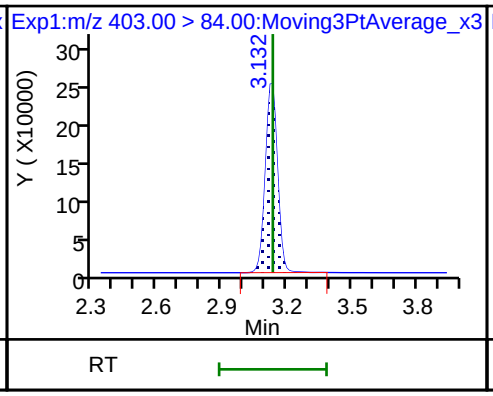
67 Perfluoro(2-propoxypropanoic) ac (M)



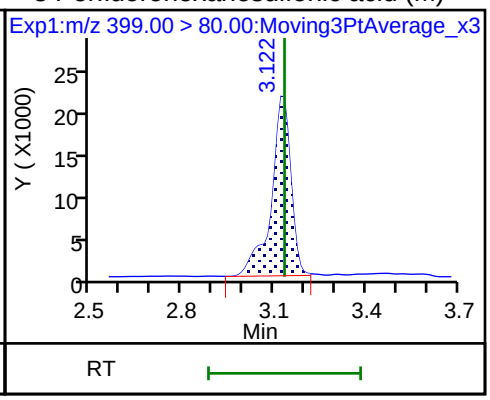
D 64 13C3 HFPO-DA



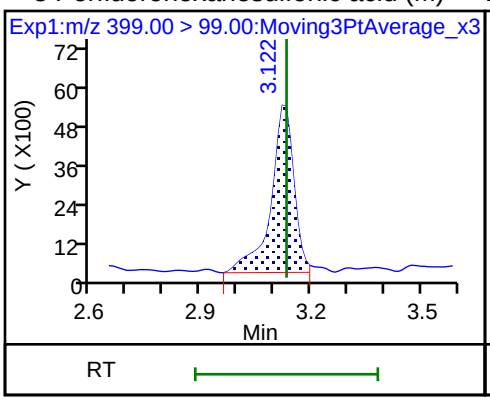
D 11 18O2 PFHxS



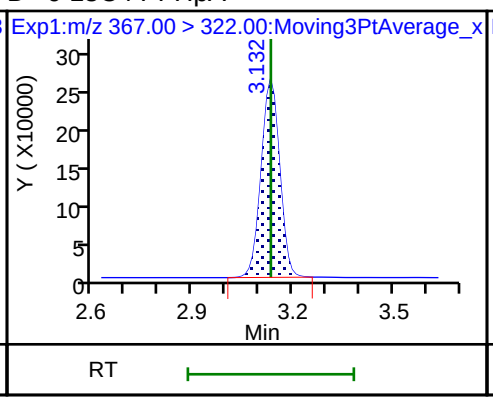
8 Perfluorohexanesulfonic acid (M)



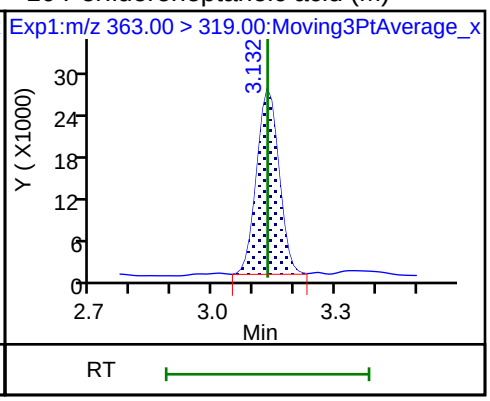
8 Perfluorohexanesulfonic acid (M)



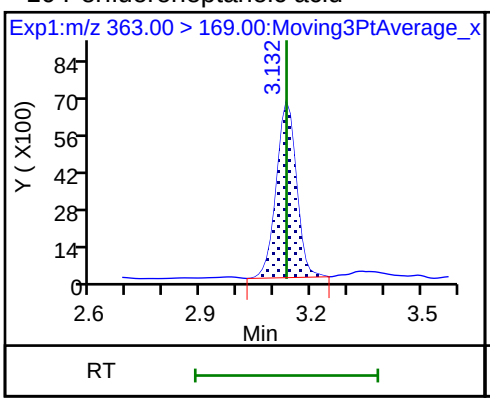
D 9 13C4 PFHpA



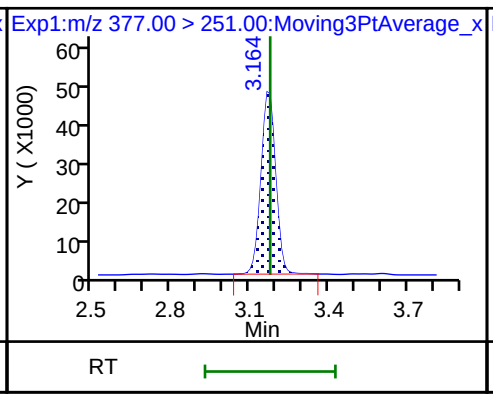
10 Perfluoroheptanoic acid (M)



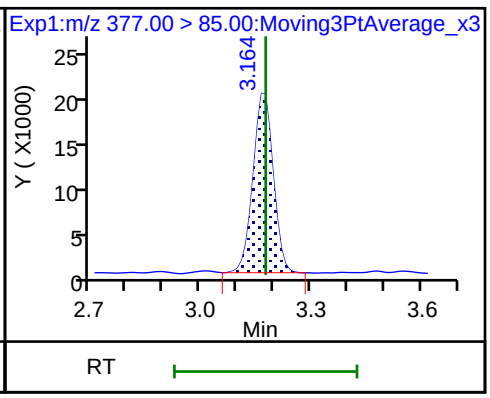
10 Perfluoroheptanoic acid



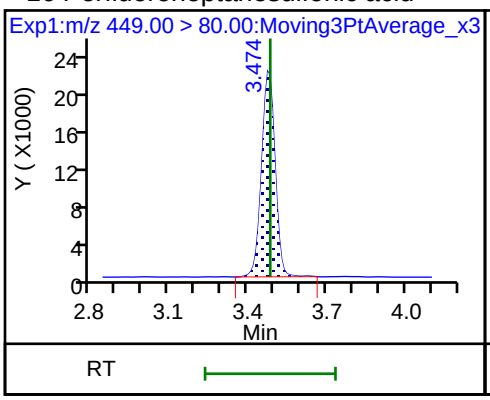
77 DONA



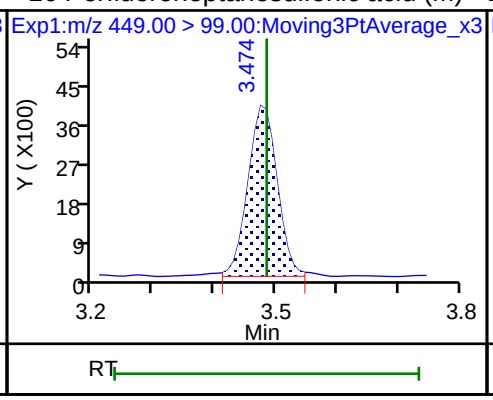
77 DONA



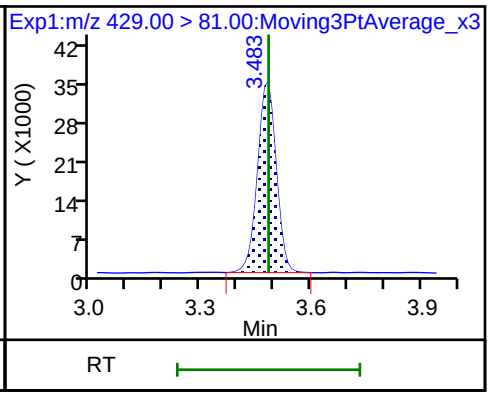
16 Perfluoroheptanesulfonic acid



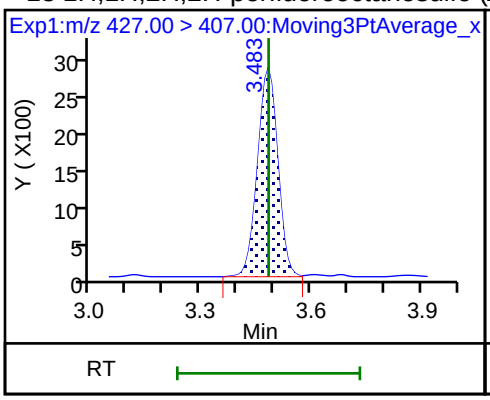
16 Perfluoroheptanesulfonic acid (M)



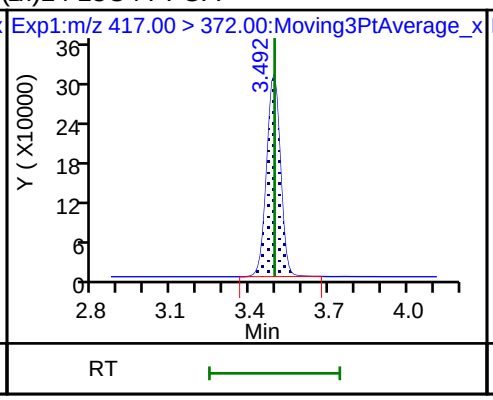
D 12 M2-6:2 FTS



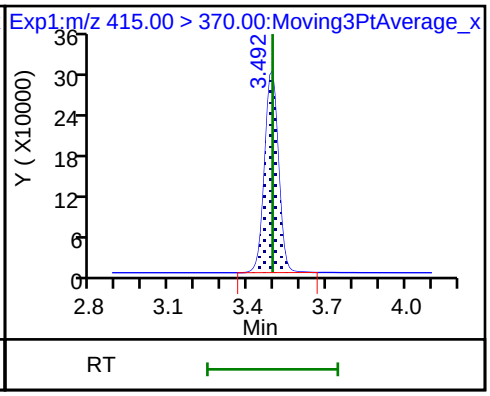
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



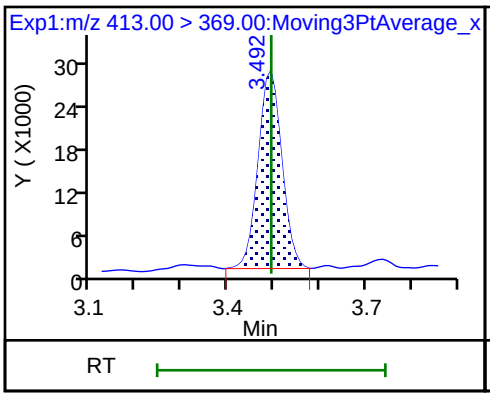
D 14 13C4 PFOA



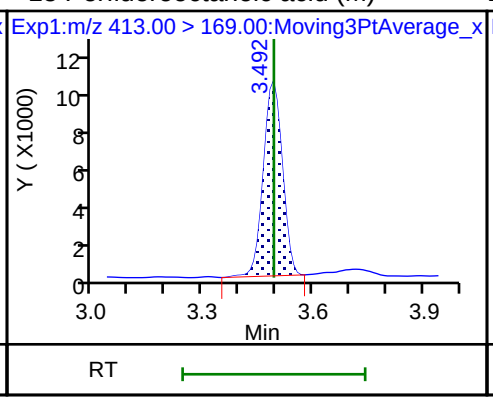
* 62 13C2 PFOA



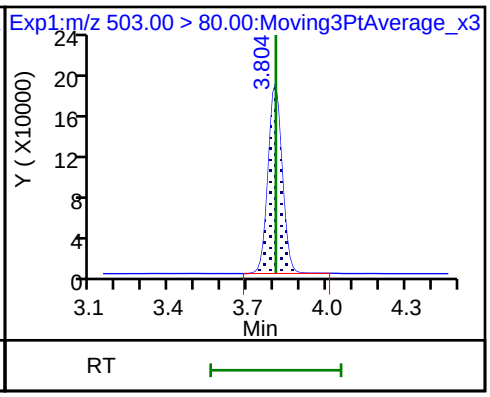
15 Perfluorooctanoic acid



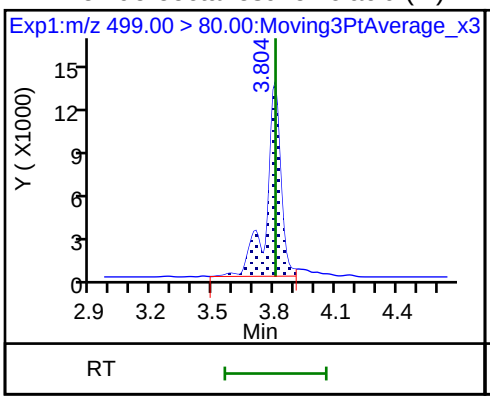
15 Perfluorooctanoic acid (M)



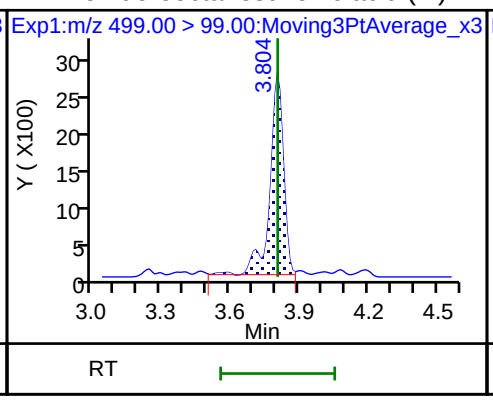
D 18 13C4 PFOS



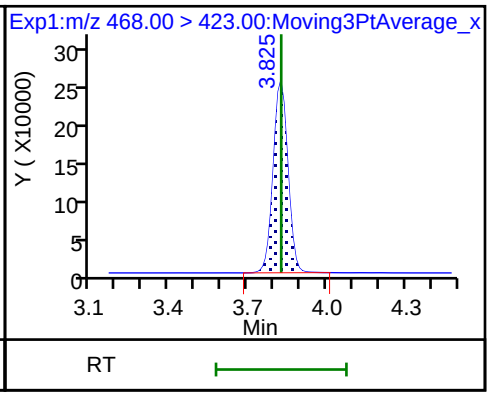
17 Perfluorooctanesulfonic acid (M)



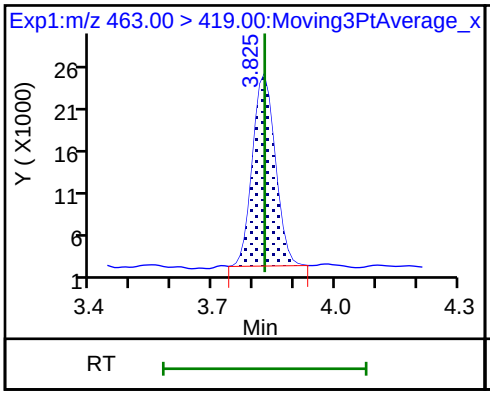
17 Perfluorooctanesulfonic acid (M)



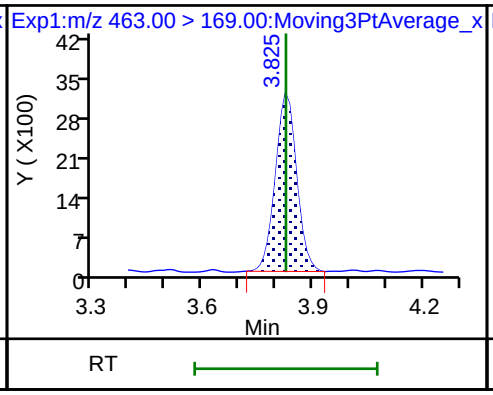
D 19 13C5 PFNA



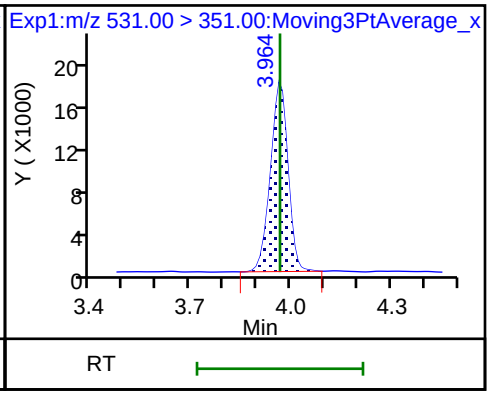
20 Perfluorononanoic acid



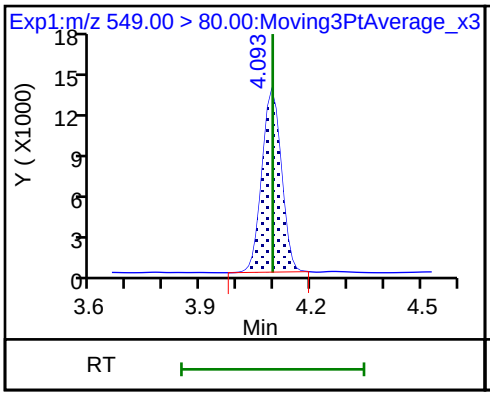
20 Perfluorononanoic acid



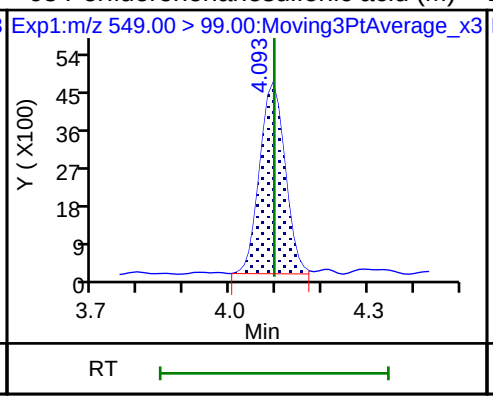
69 9-Chlorohexadecafluoro-3-oxanona



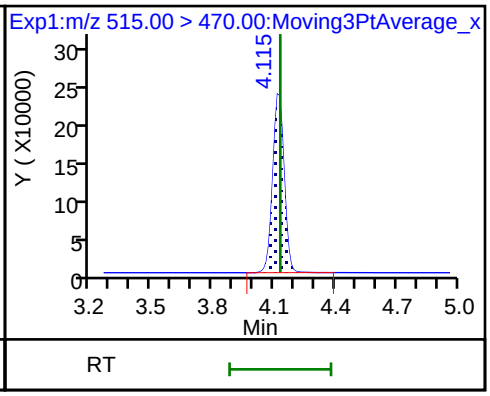
68 Perfluorononanesulfonic acid



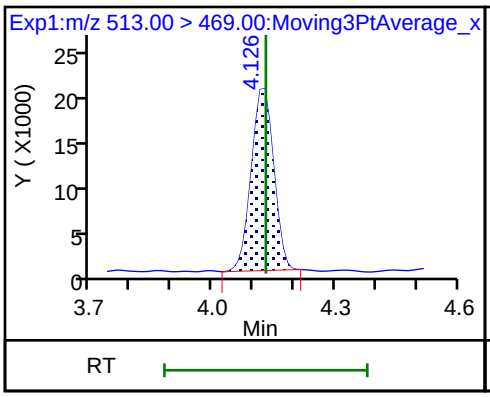
68 Perfluorononanesulfonic acid (M)



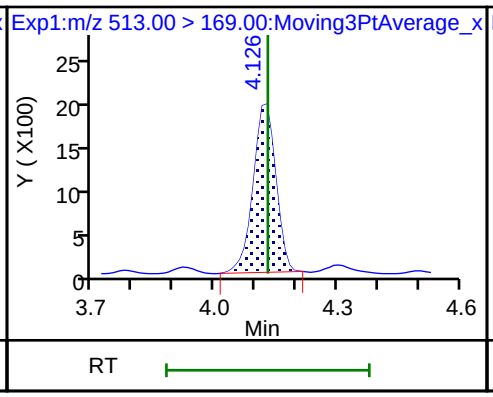
D 23 13C2 PFDA



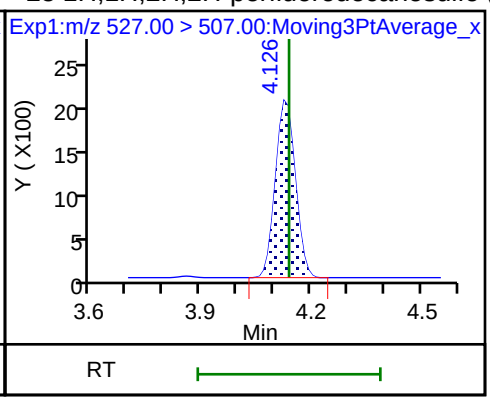
24 Perfluorodecanoic acid



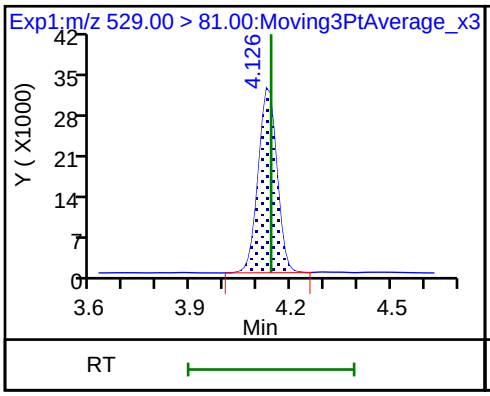
24 Perfluorodecanoic acid



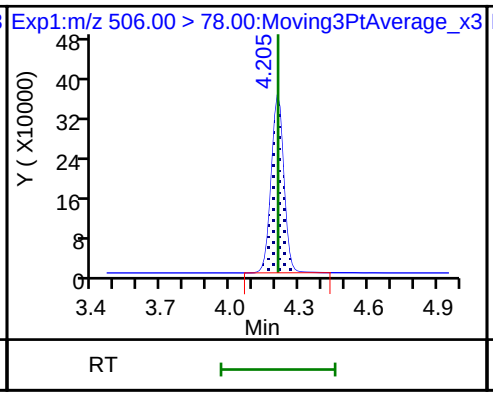
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



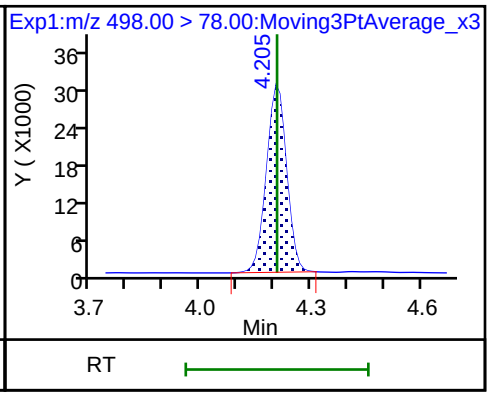
D 26 M2-8:2 FTS



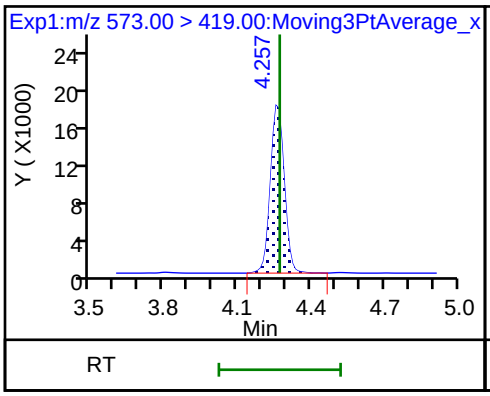
D 21 13C8 FOSA



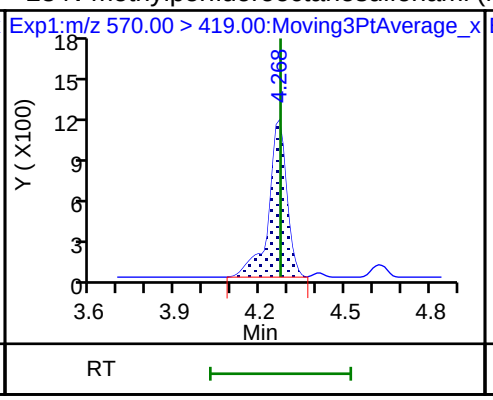
22 Perfluorooctanesulfonamide



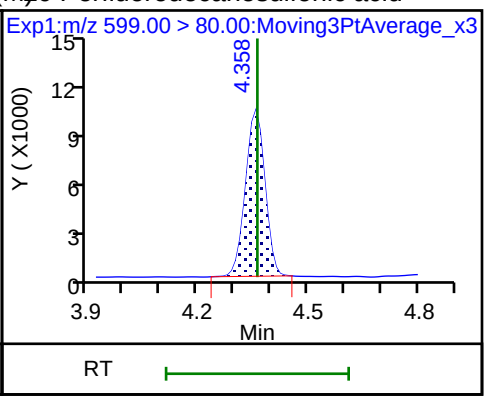
D 27 d3-NMeFOSAA



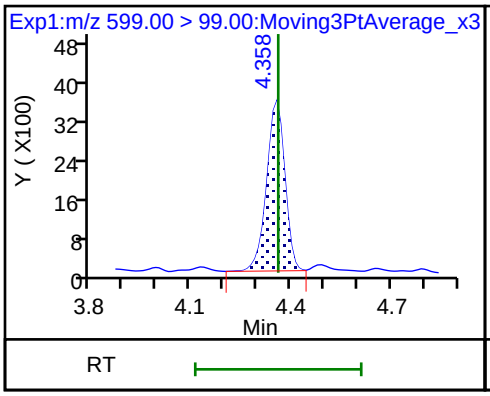
28 N-methylperfluorooctanesulfonami (M)



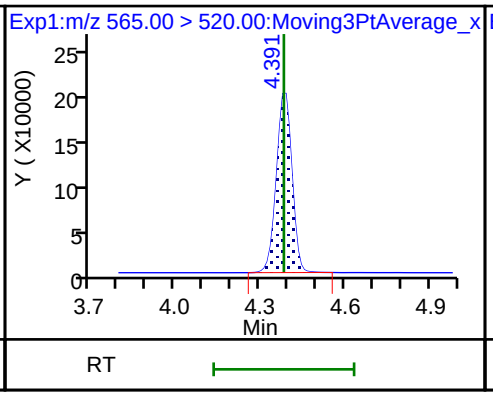
29 Perfluorodecanesulfonic acid



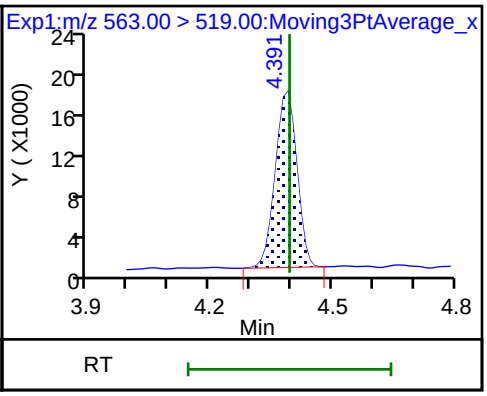
29 Perfluorodecanesulfonic acid



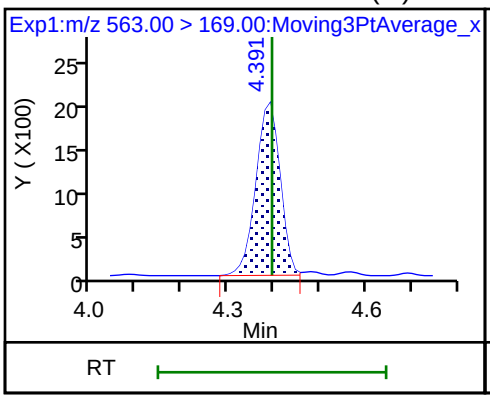
D 30 13C2 PFUnA



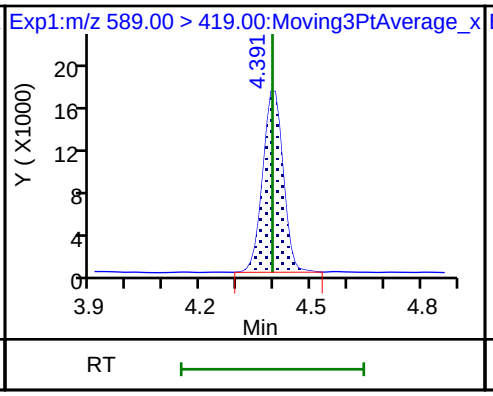
31 Perfluoroundecanoic acid



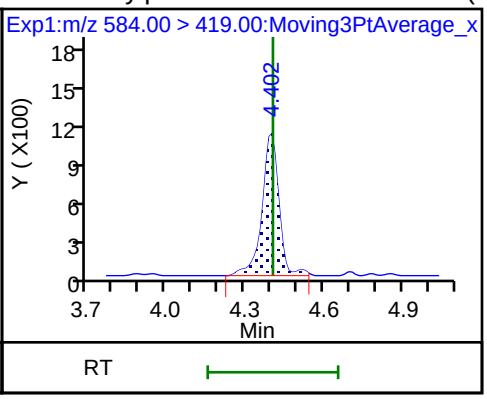
31 Perfluoroundecanoic acid (M)



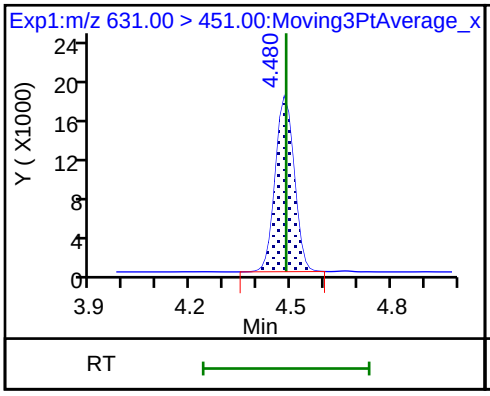
D 32 d5-NEtFOSAA



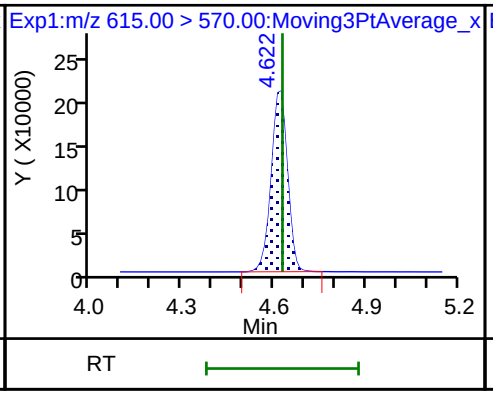
33 N-ethylperfluorooctanesulfonamid (M)



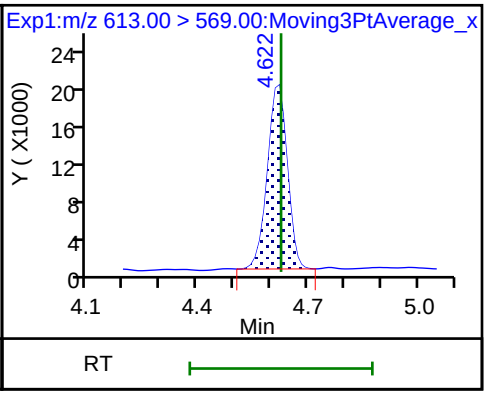
66 11-Chloroeicosafluoro-3-oxaundec



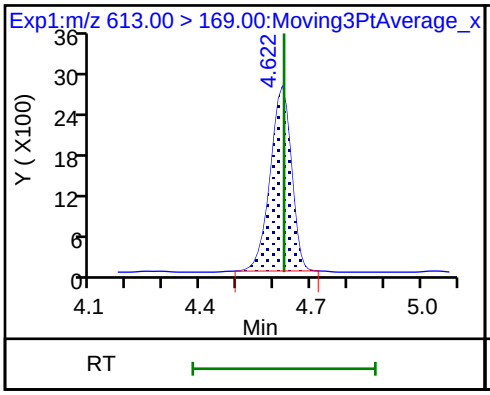
D 36 13C2 PFDoA



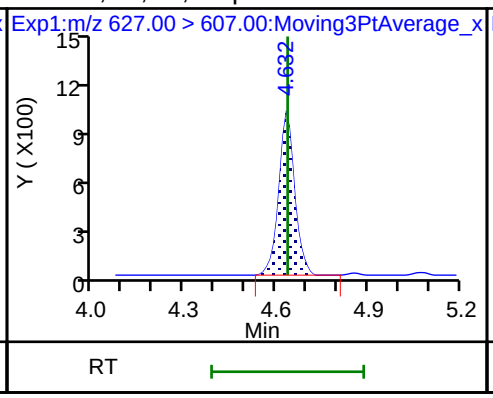
37 Perfluorododecanoic acid



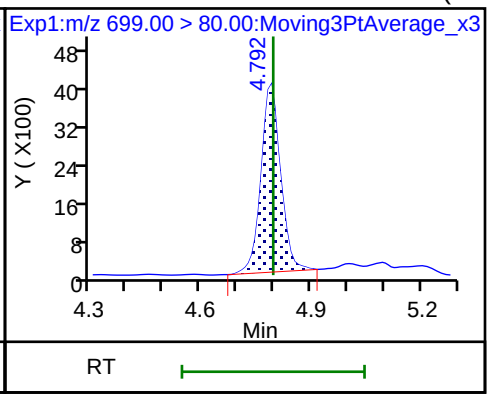
37 Perfluorododecanoic acid



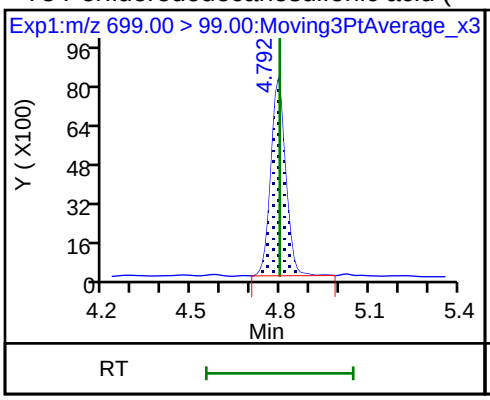
74 1H,1H,2H,2H-perfluorododecanesul



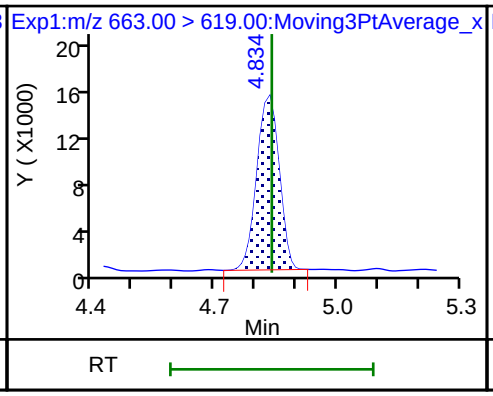
75 Perfluorododecanesulfonic acid (



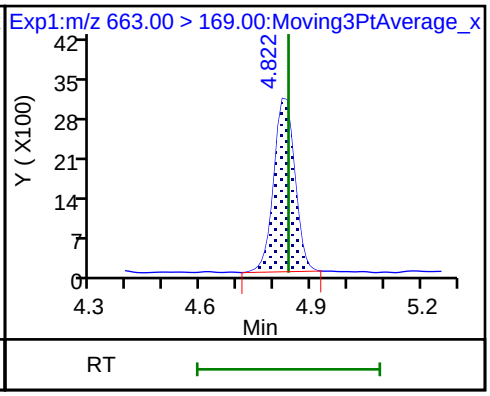
75 Perfluorododecanesulfonic acid (



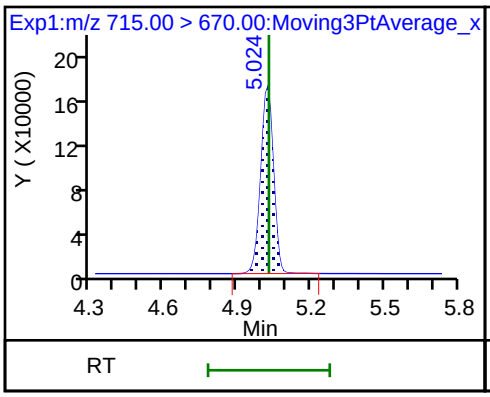
41 Perfluorotridecanoic acid



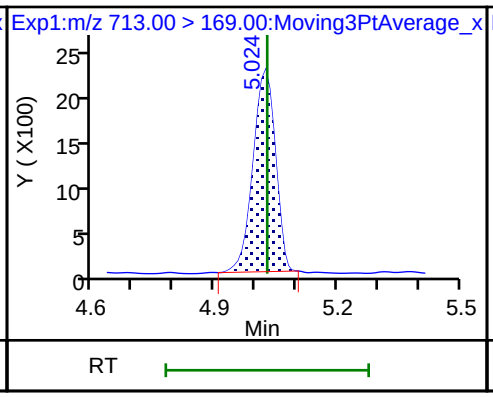
41 Perfluorotridecanoic acid



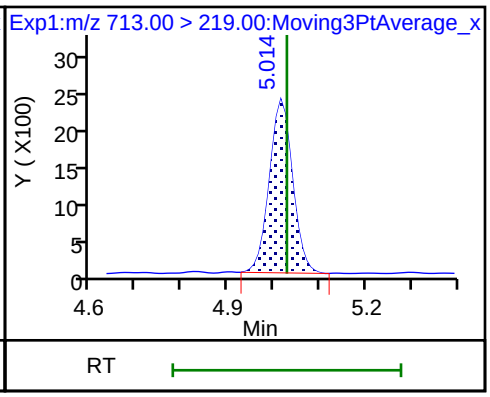
D 43 13C2 PFTeDA



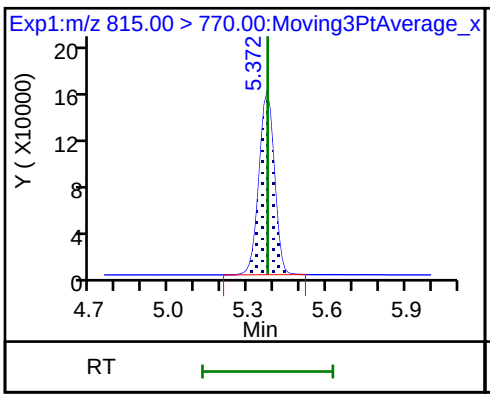
42 Perfluorotetradecanoic acid



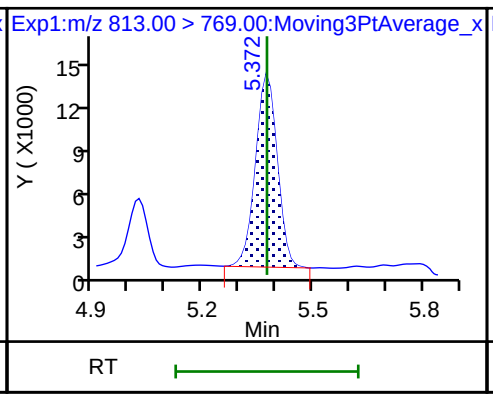
42 Perfluorotetradecanoic acid



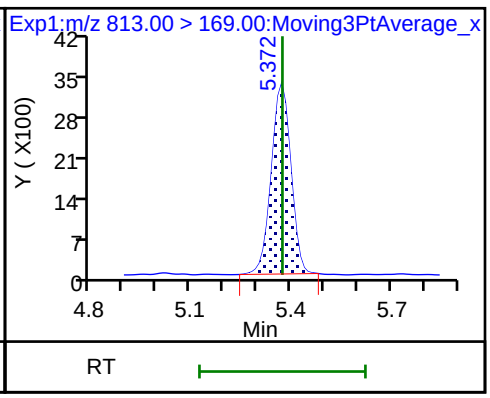
D 44 13C2 PFHxDA



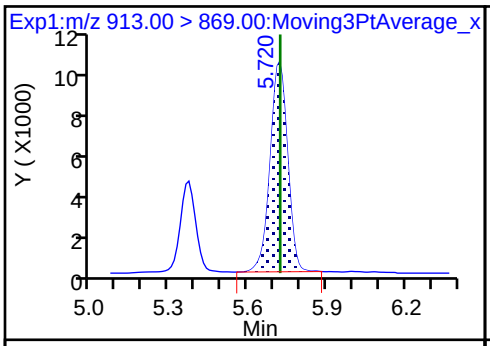
45 Perfluorohexadecanoic acid



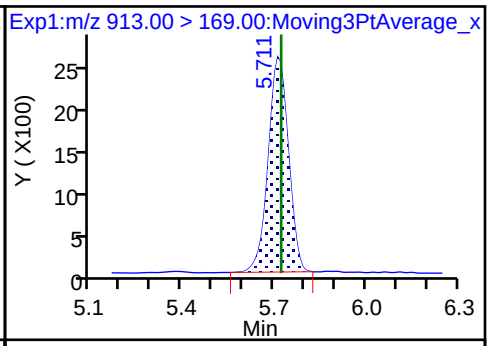
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

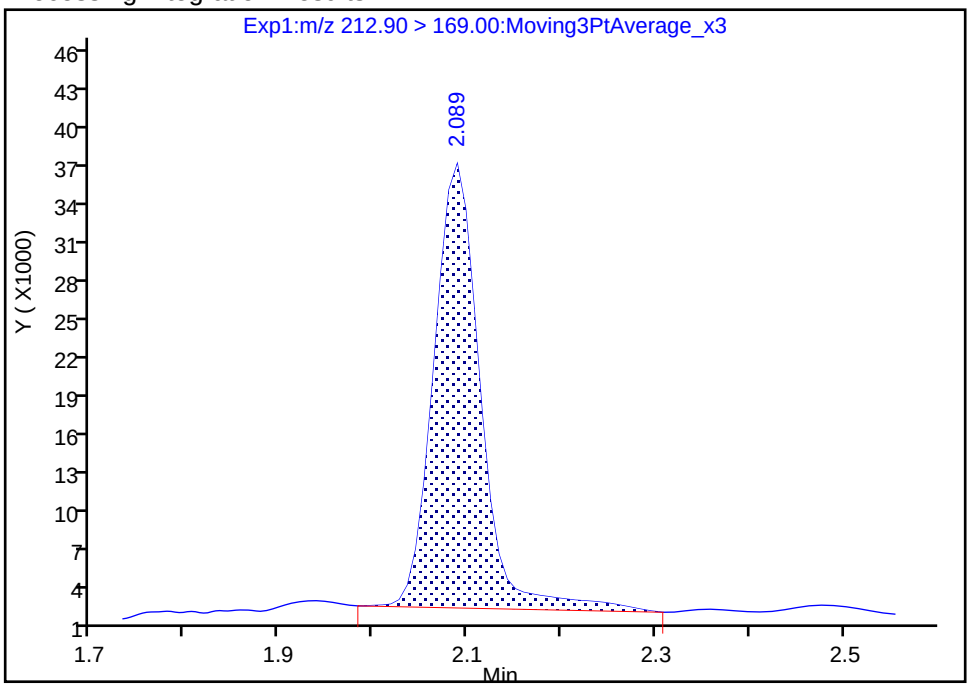
Data File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL009.d
Injection Date: 22-Dec-2020 12:56:31 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

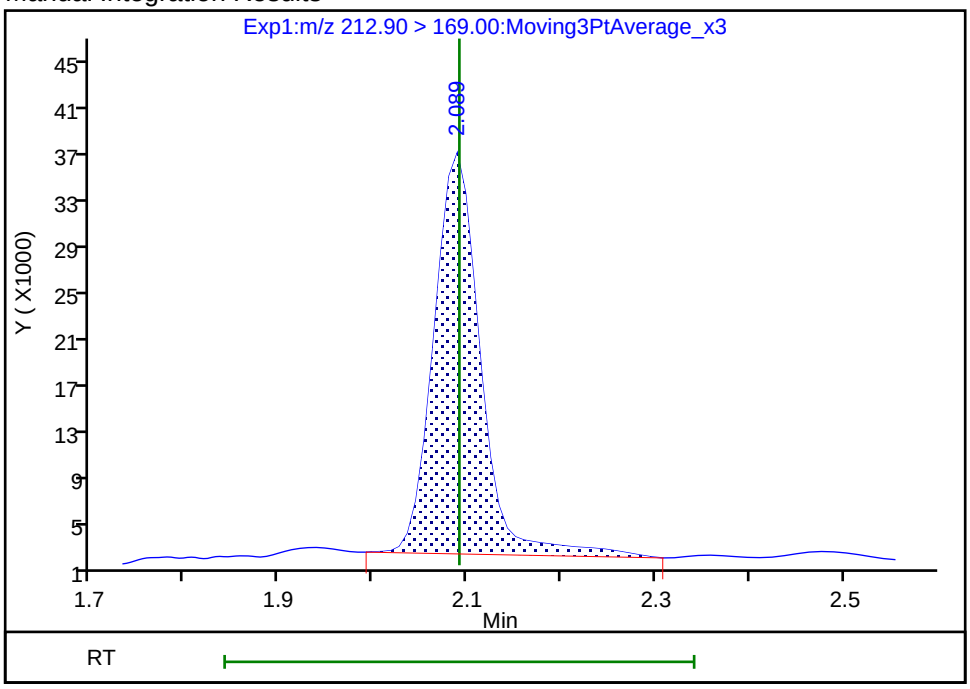
Processing Integration Results

RT: 2.09
Area: 118682
Amount: 0.101454
Amount Units: ng/ml



Manual Integration Results

RT: 2.09
Area: 118541
Amount: 0.106660
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:33:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

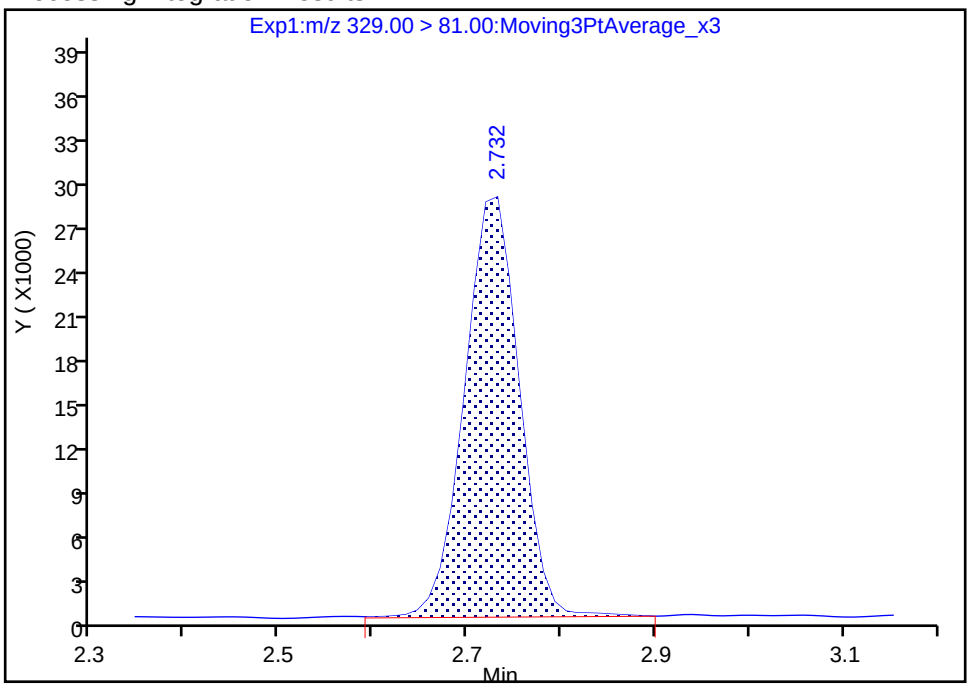
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL009.d				
Injection Date:	22-Dec-2020 12:56:31	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

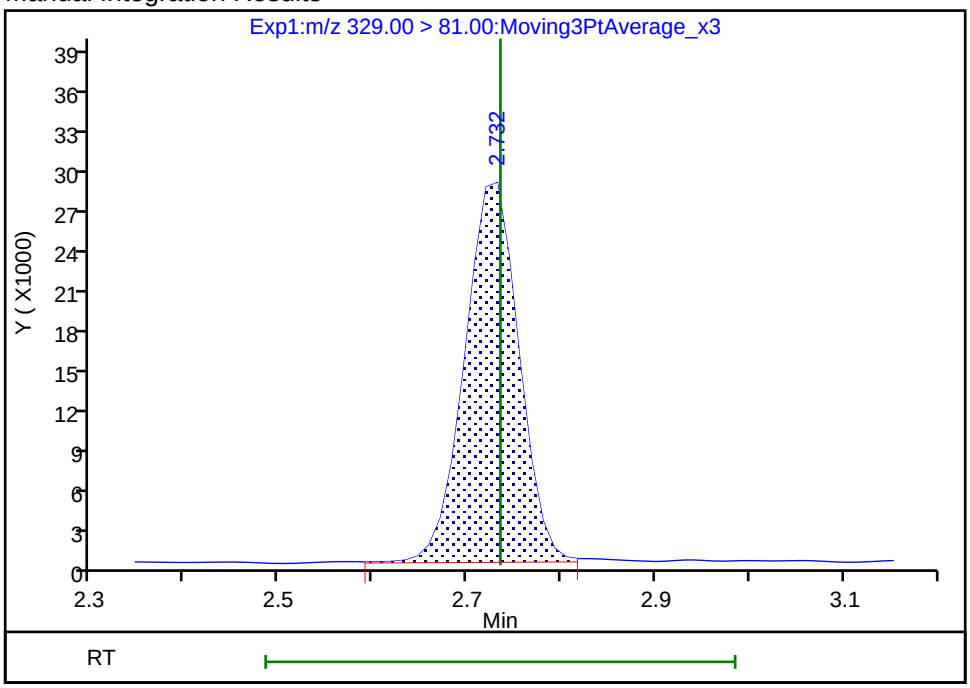
Processing Integration Results

RT: 2.73
Area: 113766
Amount: 1.212479
Amount Units: ng/ml



Manual Integration Results

RT: 2.73
Area: 113101
Amount: 1.201509
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:50:31

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

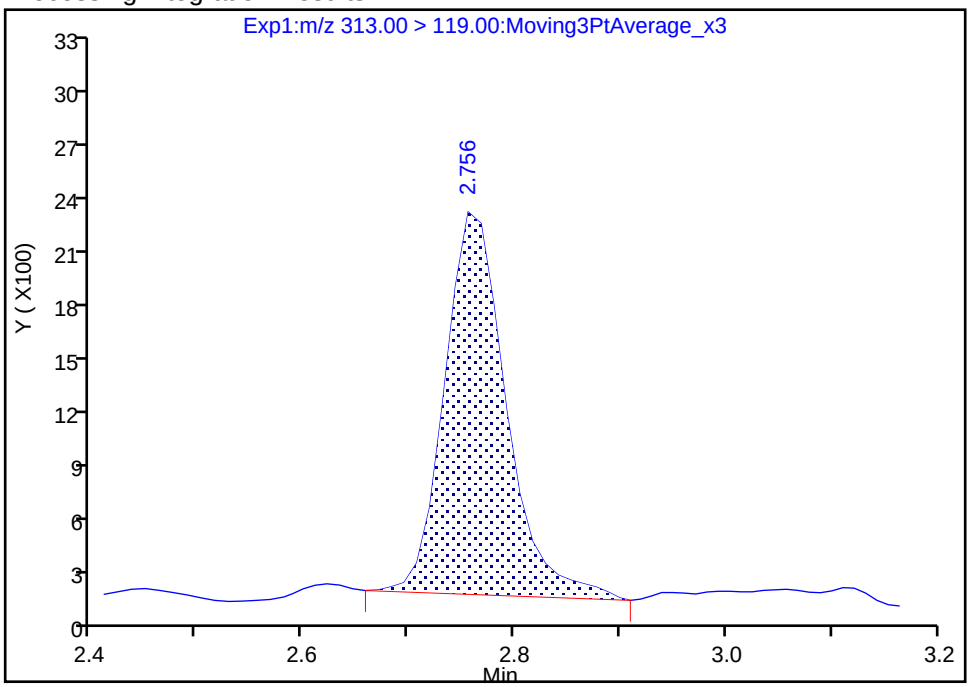
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL009.d				
Injection Date:	22-Dec-2020 12:56:31	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

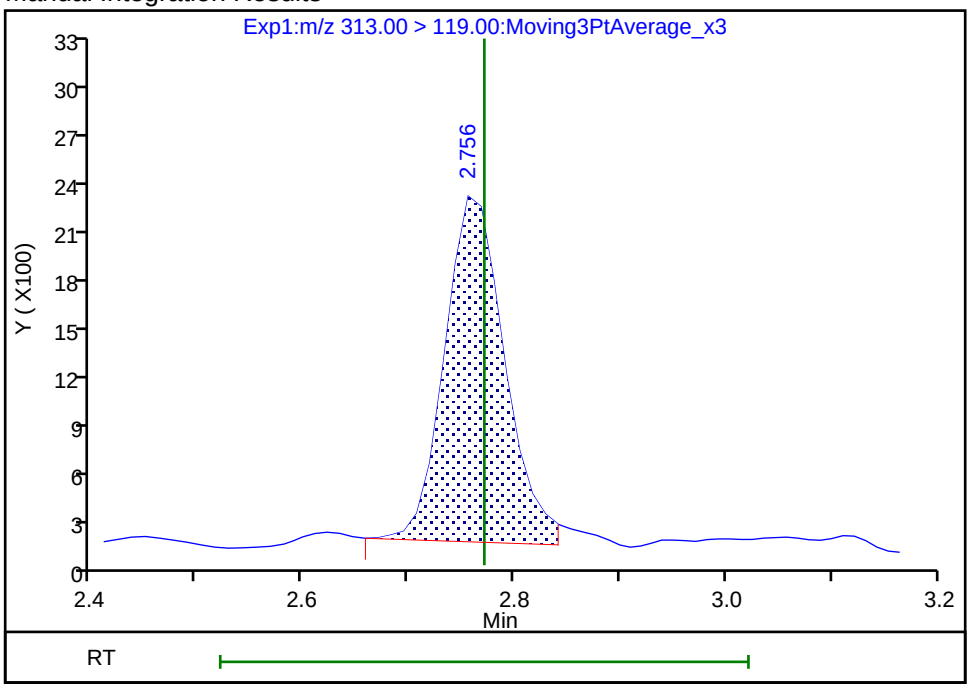
Processing Integration Results

RT: 2.76
Area: 8512
Amount: 0.094868
Amount Units: ng/ml



Manual Integration Results

RT: 2.76
Area: 8260
Amount: 0.099711
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:50:22
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

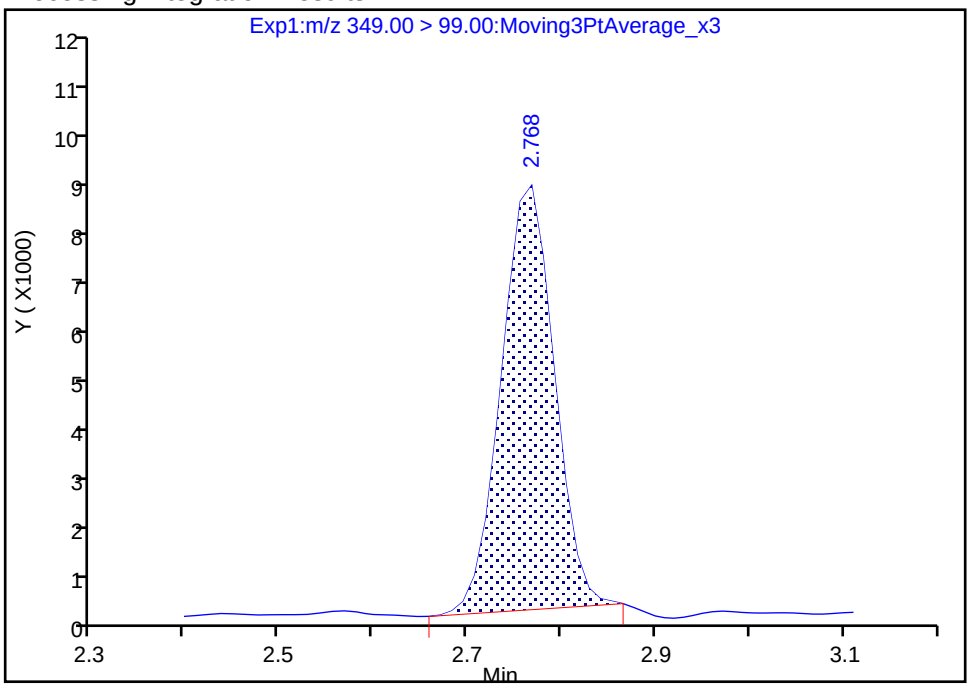
Data File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL009.d
Injection Date: 22-Dec-2020 12:56:31 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 2

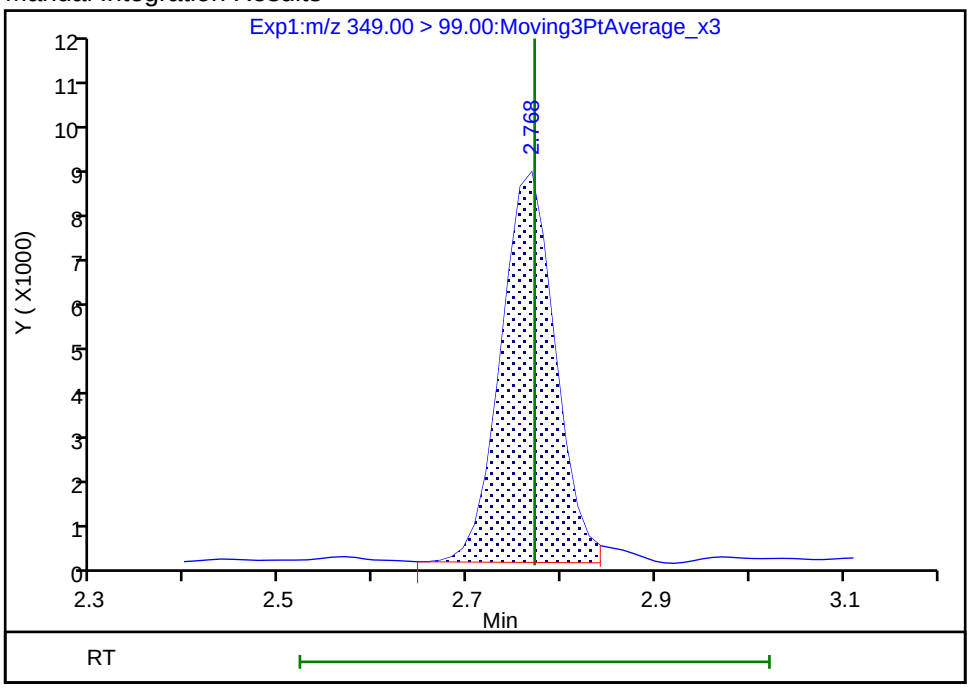
Processing Integration Results

RT: 2.77
Area: 31806
Amount: 0.097860
Amount Units: ng/ml



Manual Integration Results

RT: 2.77
Area: 33039
Amount: 0.099355
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:50:13
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

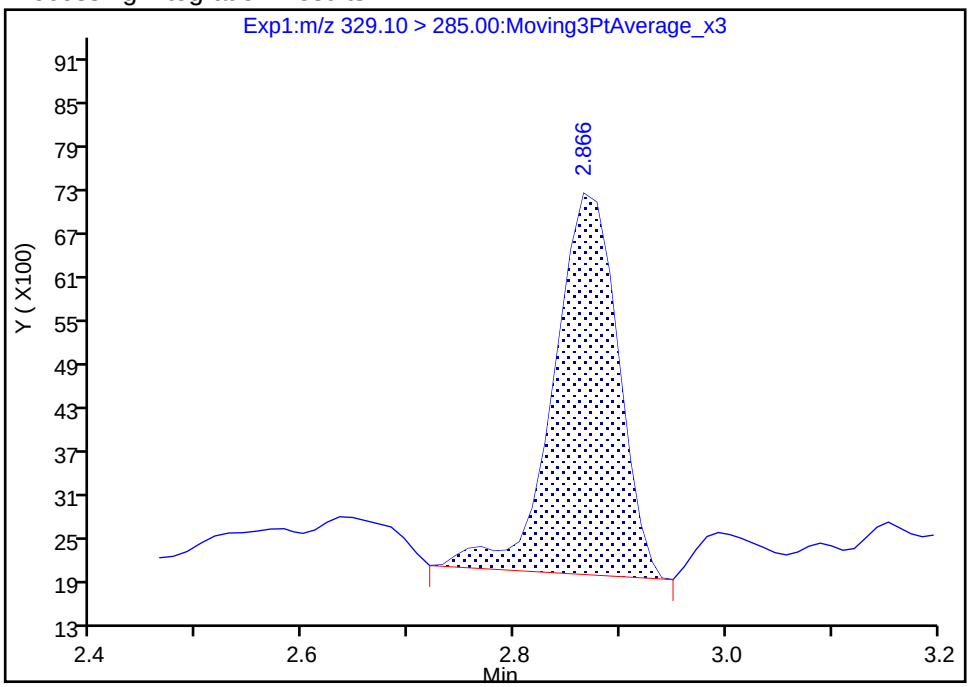
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL009.d				
Injection Date:	22-Dec-2020 12:56:31	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

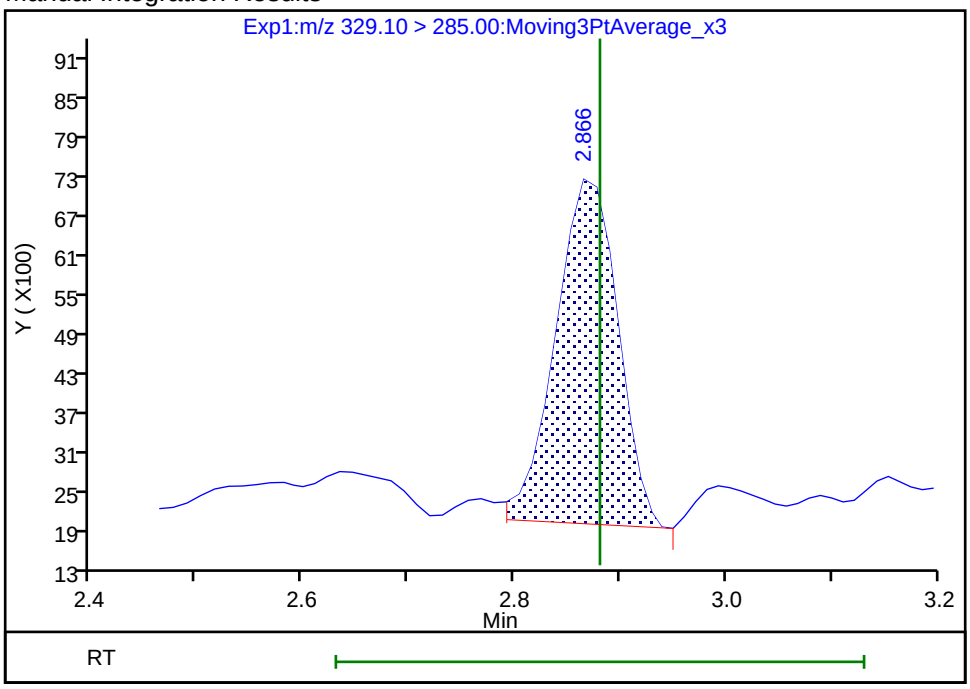
Processing Integration Results

RT: 2.87
Area: 22157
Amount: 0.102844
Amount Units: ng/ml



Manual Integration Results

RT: 2.87
Area: 21331
Amount: 0.103904
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:49:59
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

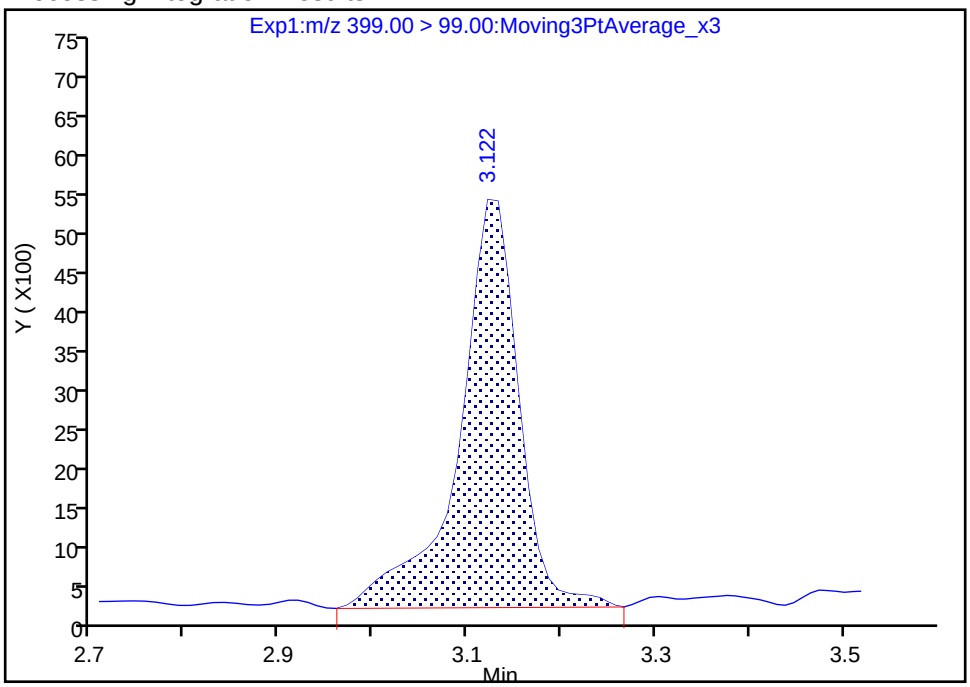
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL009.d				
Injection Date:	22-Dec-2020 12:56:31	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

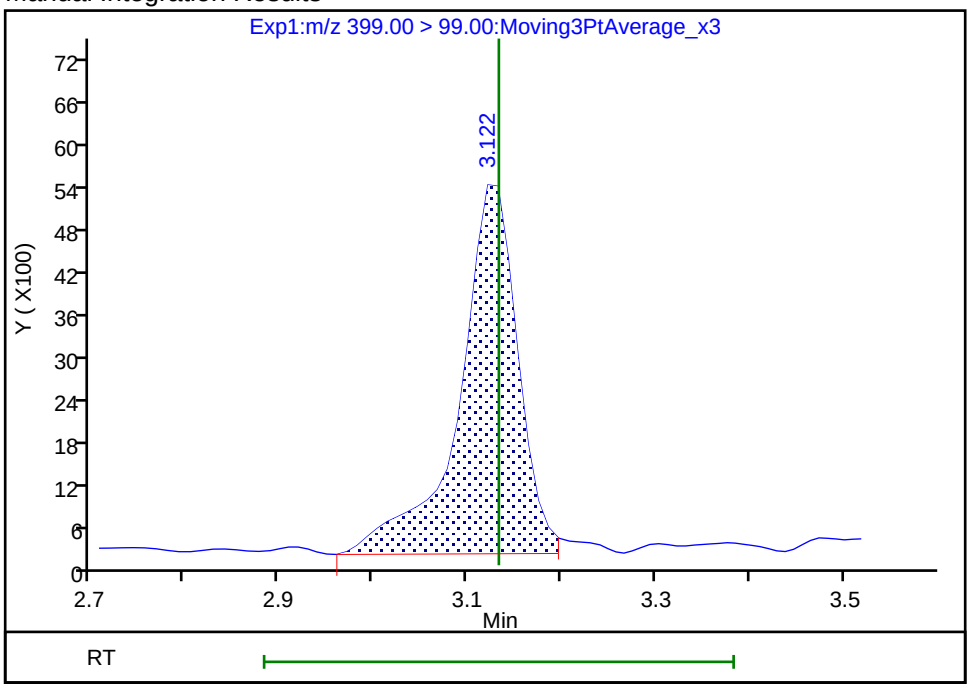
Processing Integration Results

RT: 3.12
Area: 23122
Amount: 0.095239
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 22626
Amount: 0.099187
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:49:48
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

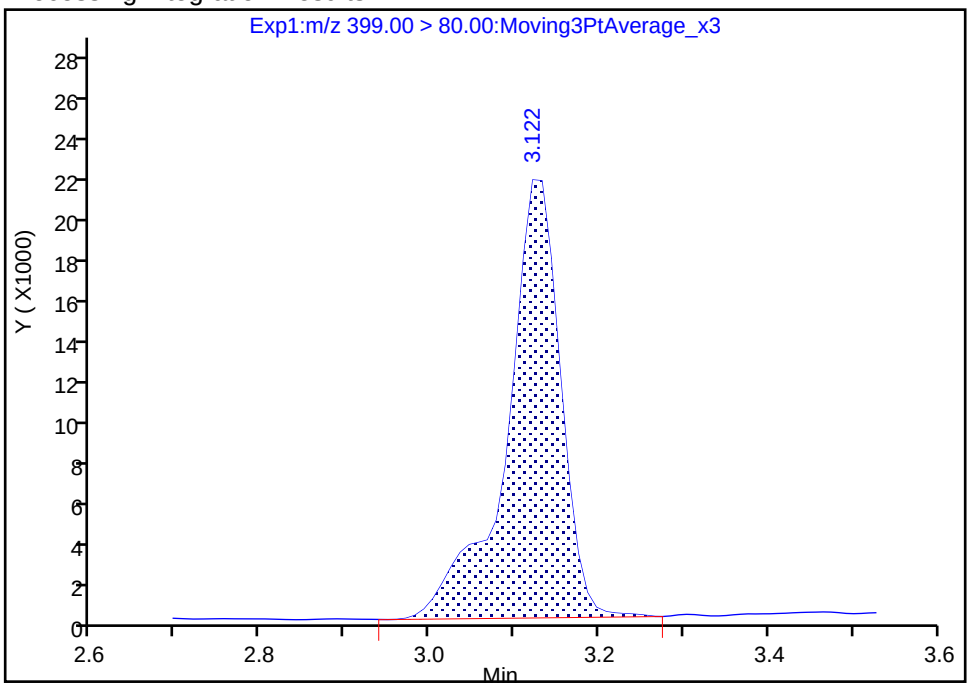
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL009.d				
Injection Date:	22-Dec-2020 12:56:31	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

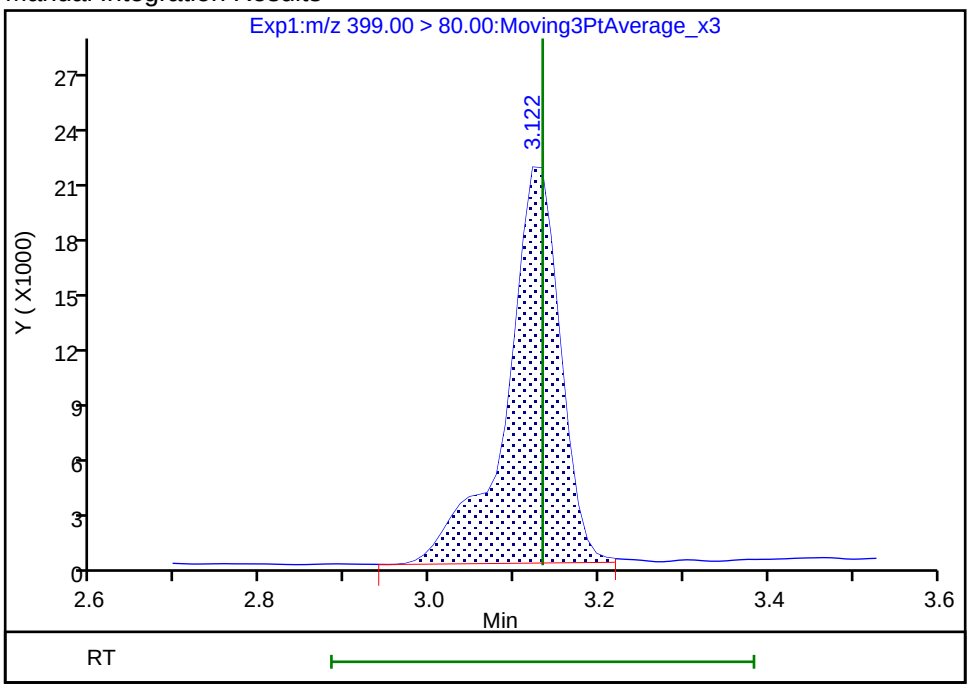
Processing Integration Results

RT: 3.12
Area: 94813
Amount: 0.095239
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 94508
Amount: 0.099187
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:49:51

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

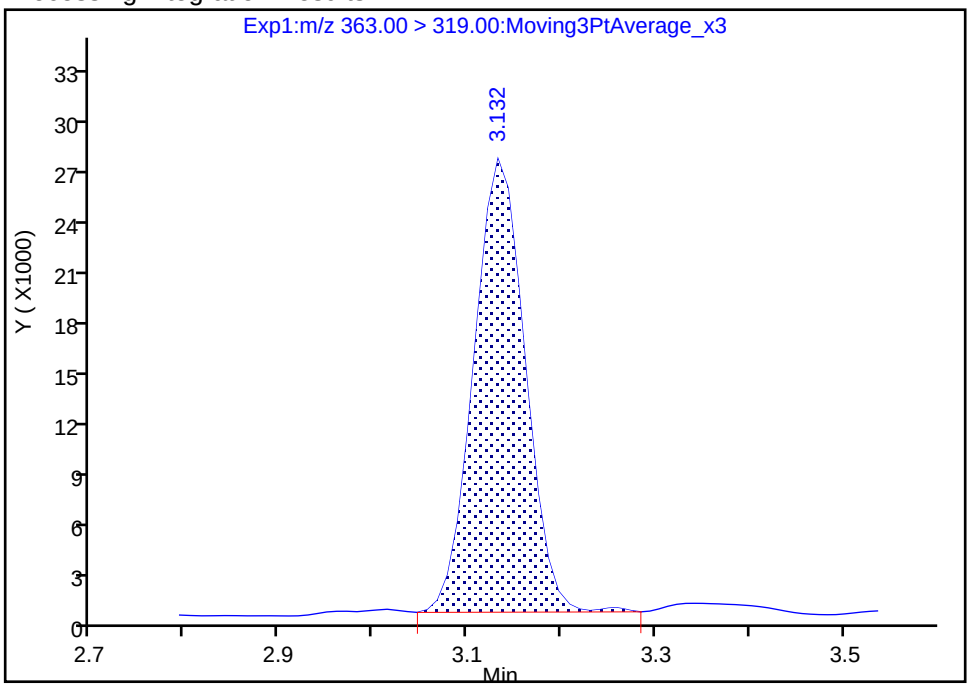
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL009.d				
Injection Date:	22-Dec-2020 12:56:31	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

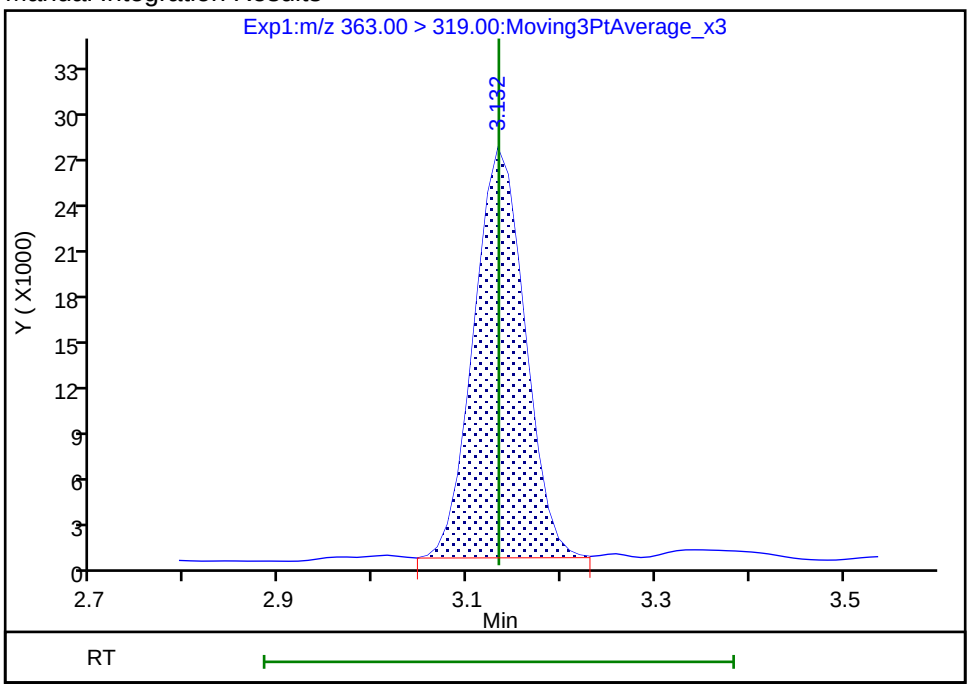
Processing Integration Results

RT: 3.13
Area: 100330
Amount: 0.107605
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 99874
Amount: 0.112138
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:49:42
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

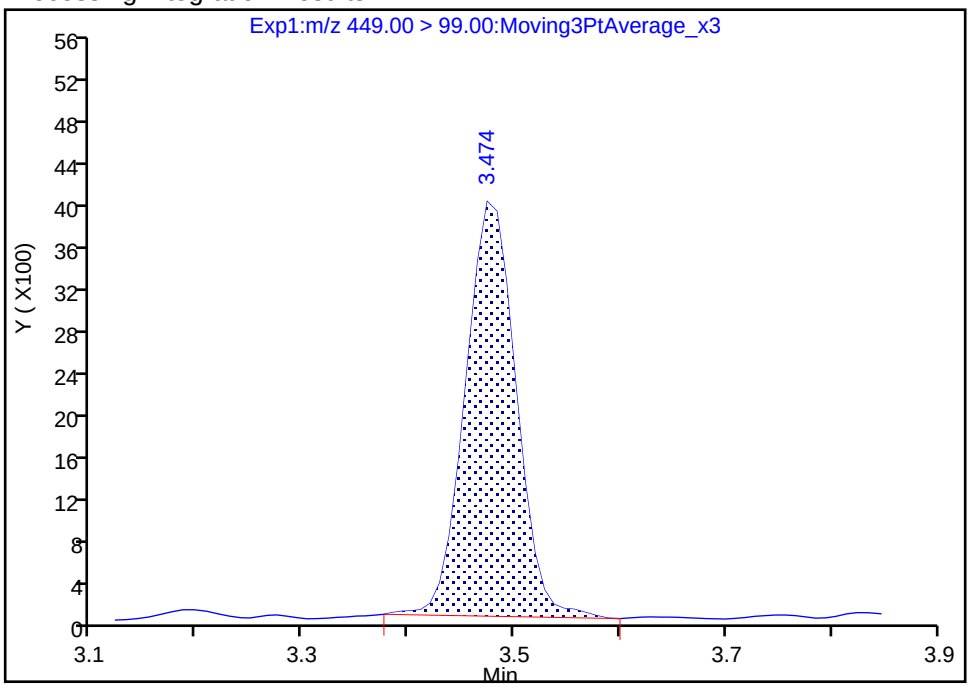
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL009.d				
Injection Date:	22-Dec-2020 12:56:31	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

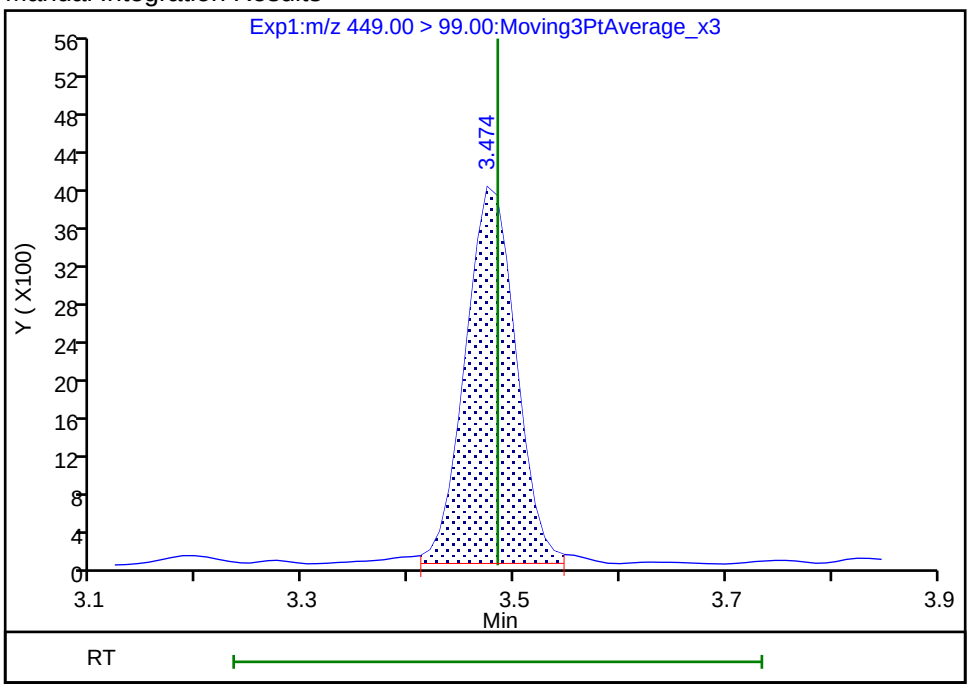
Processing Integration Results

RT: 3.47
Area: 13173
Amount: 0.097839
Amount Units: ng/ml



Manual Integration Results

RT: 3.47
Area: 13156
Amount: 0.100190
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:49:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

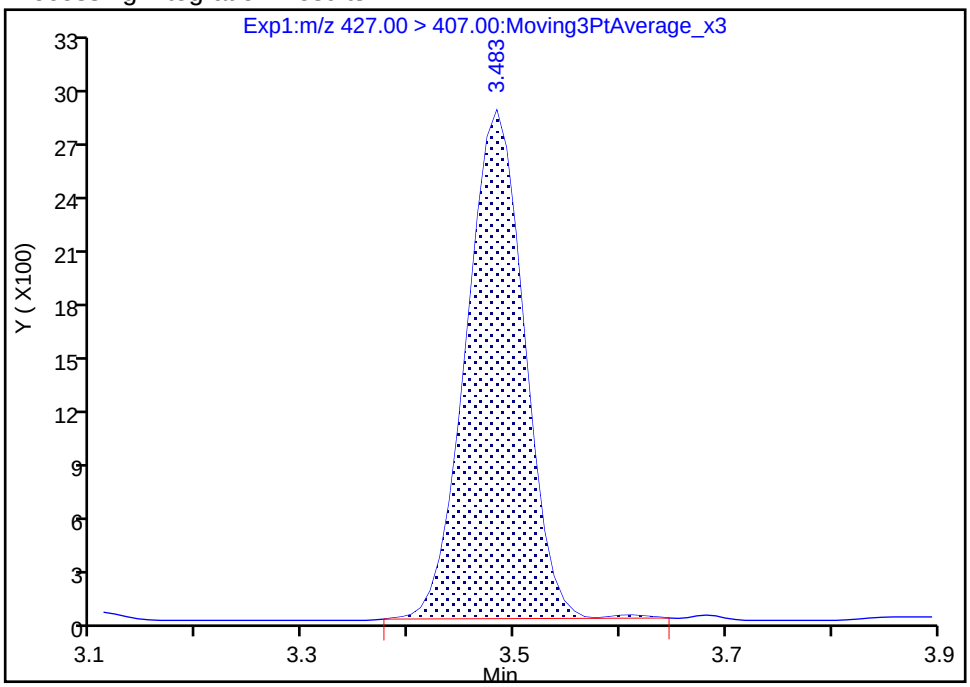
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL009.d				
Injection Date:	22-Dec-2020 12:56:31	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

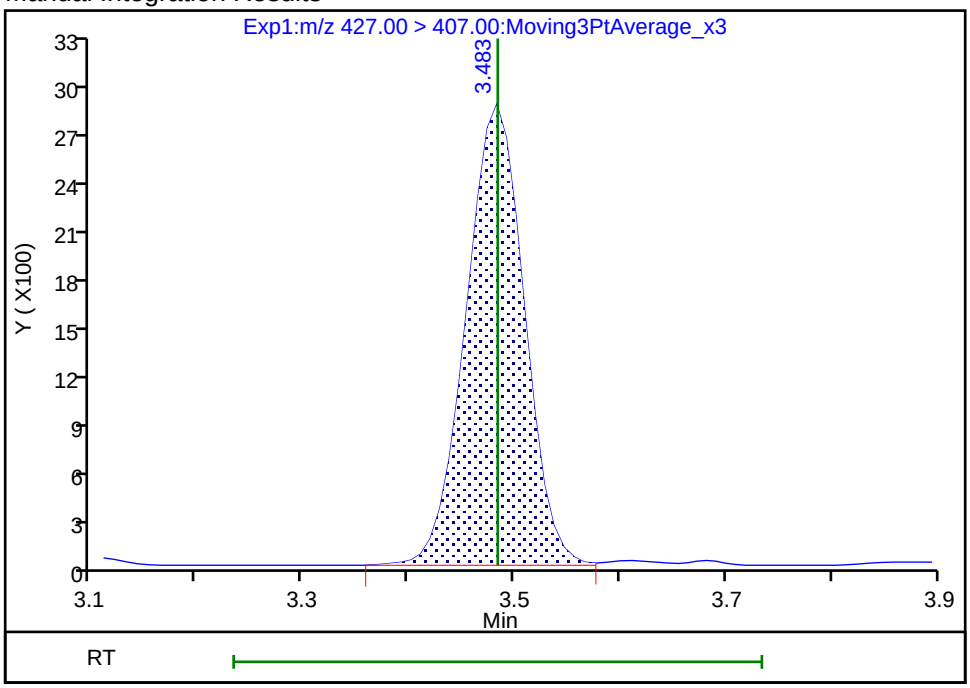
Processing Integration Results

RT: 3.48
Area: 10663
Amount: 0.091432
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 10738
Amount: 0.093218
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:49:18

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

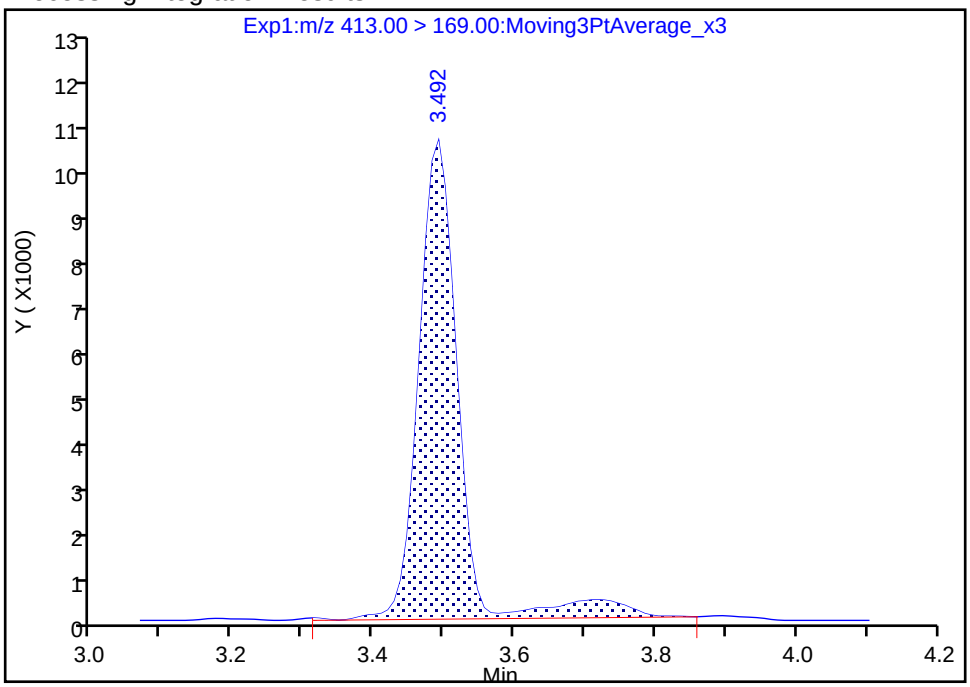
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL009.d				
Injection Date:	22-Dec-2020 12:56:31	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

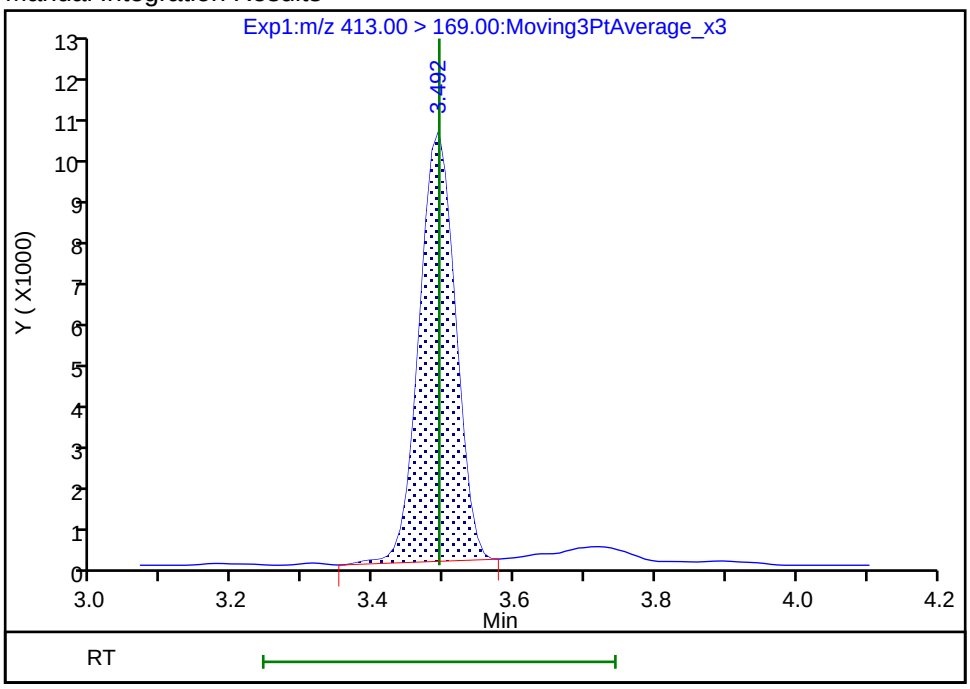
Processing Integration Results

RT: 3.49
Area: 41476
Amount: 0.101377
Amount Units: ng/ml



Manual Integration Results

RT: 3.49
Area: 37378
Amount: 0.102986
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:49:00
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

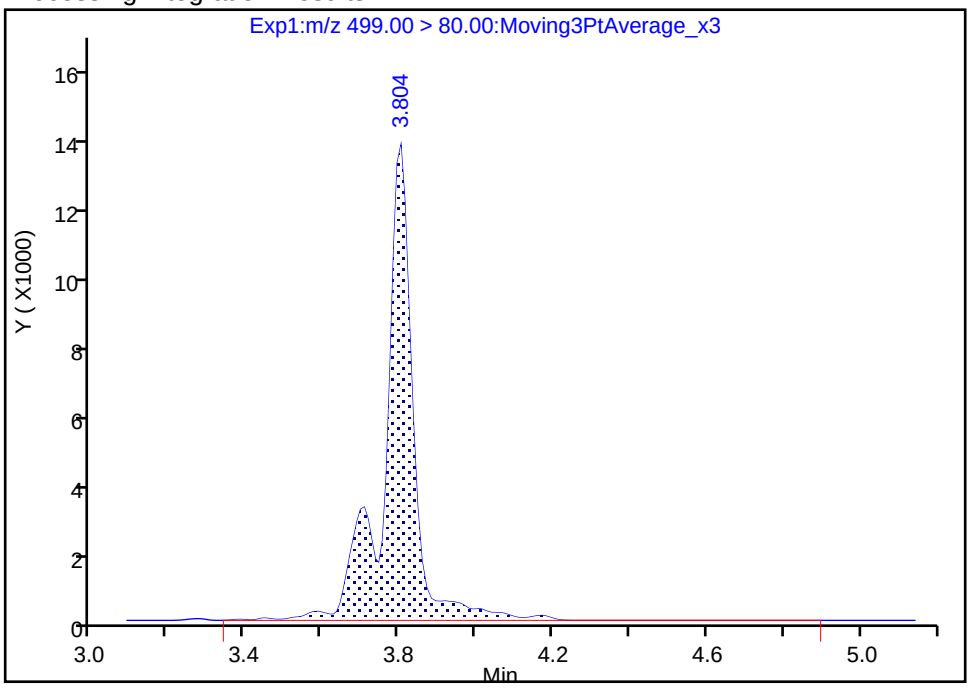
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL009.d				
Injection Date:	22-Dec-2020 12:56:31	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

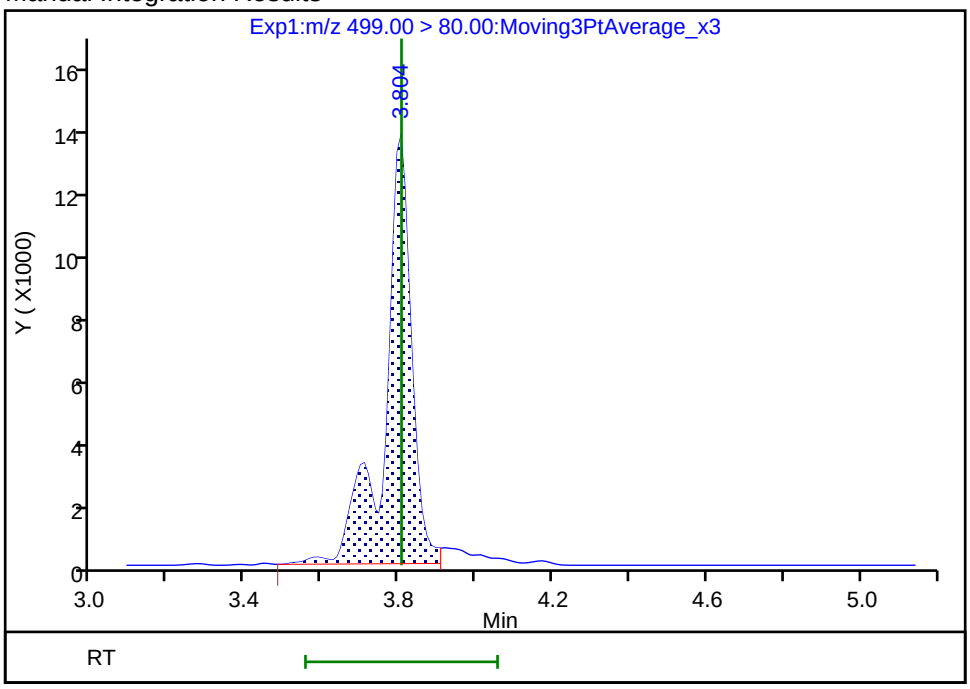
Processing Integration Results

RT: 3.80
Area: 70713
Amount: 0.101573
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 64913
Amount: 0.098863
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:48:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

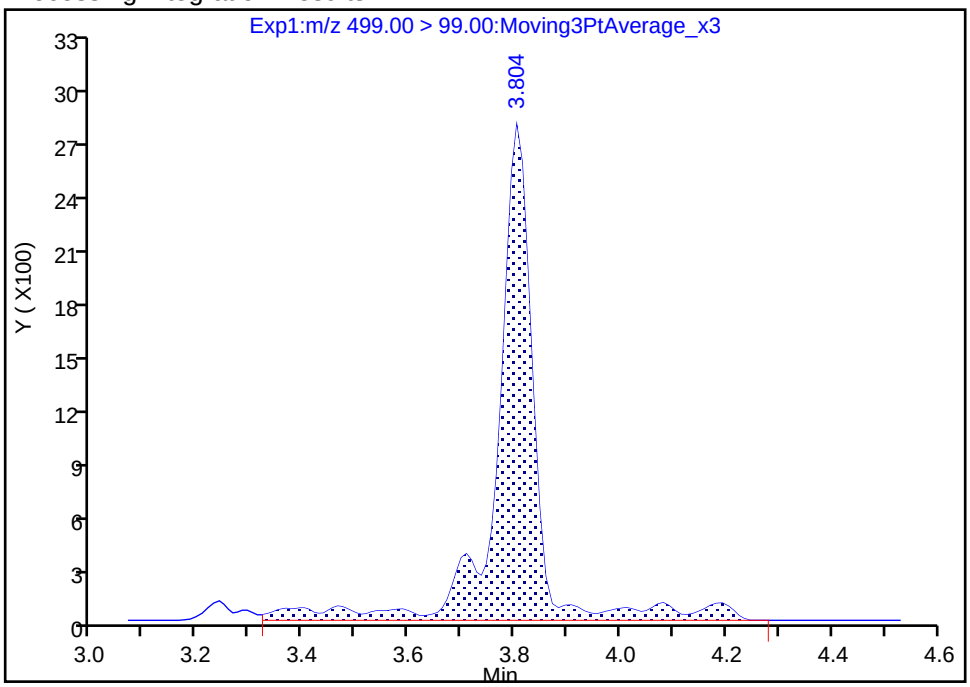
Data File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL009.d
Injection Date: 22-Dec-2020 12:56:31 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

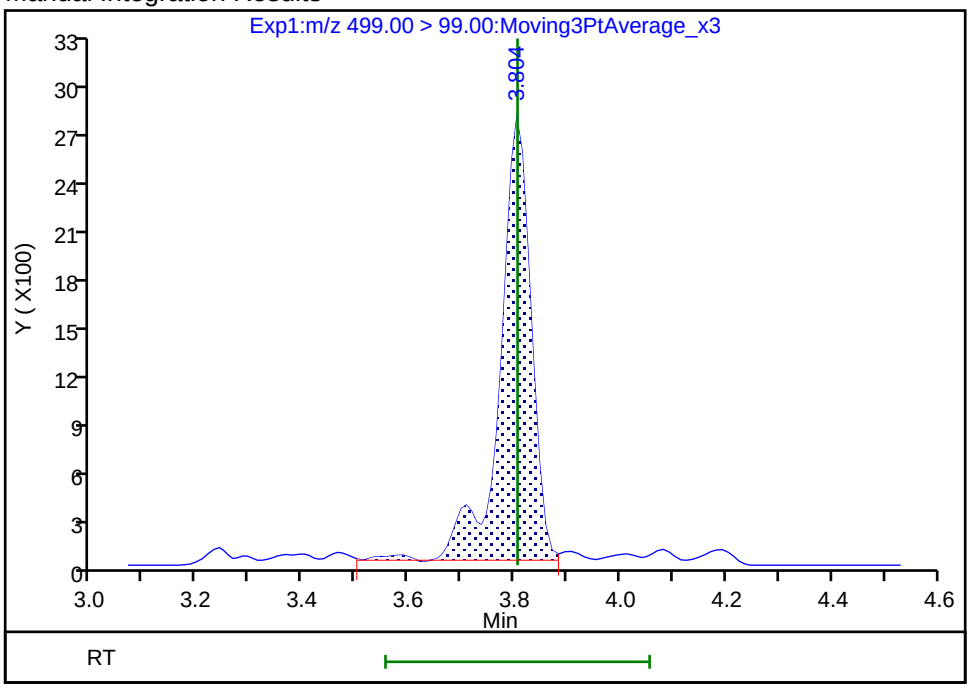
Processing Integration Results

RT: 3.80
Area: 13970
Amount: 0.101573
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 11330
Amount: 0.098863
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:48:47
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

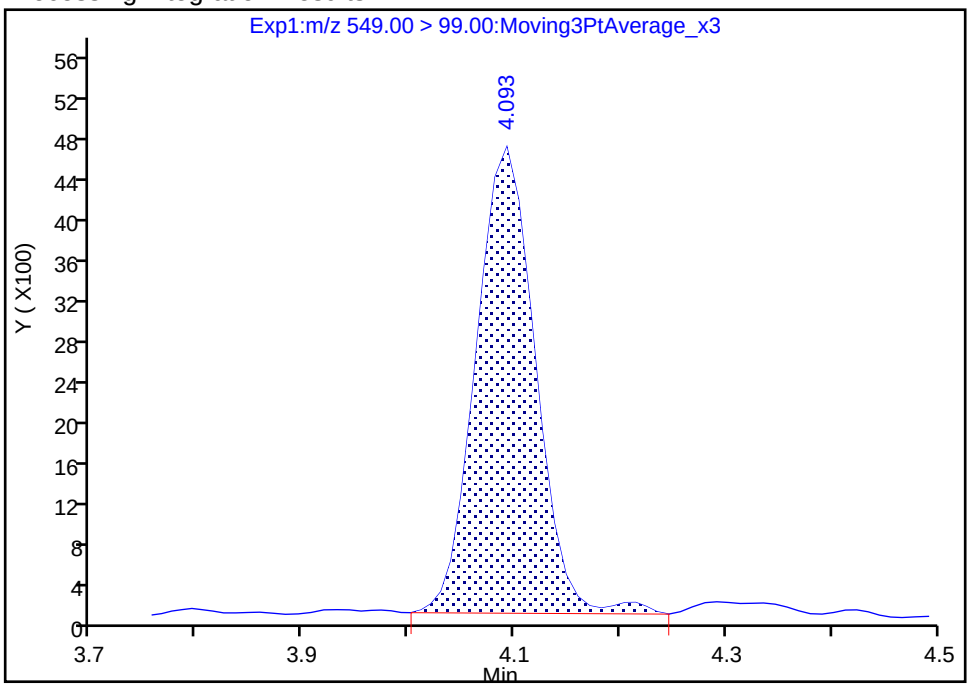
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL009.d				
Injection Date:	22-Dec-2020 12:56:31	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

68 Perfluorononanesulfonic acid, CAS: 68259-12-1

Signal: 2

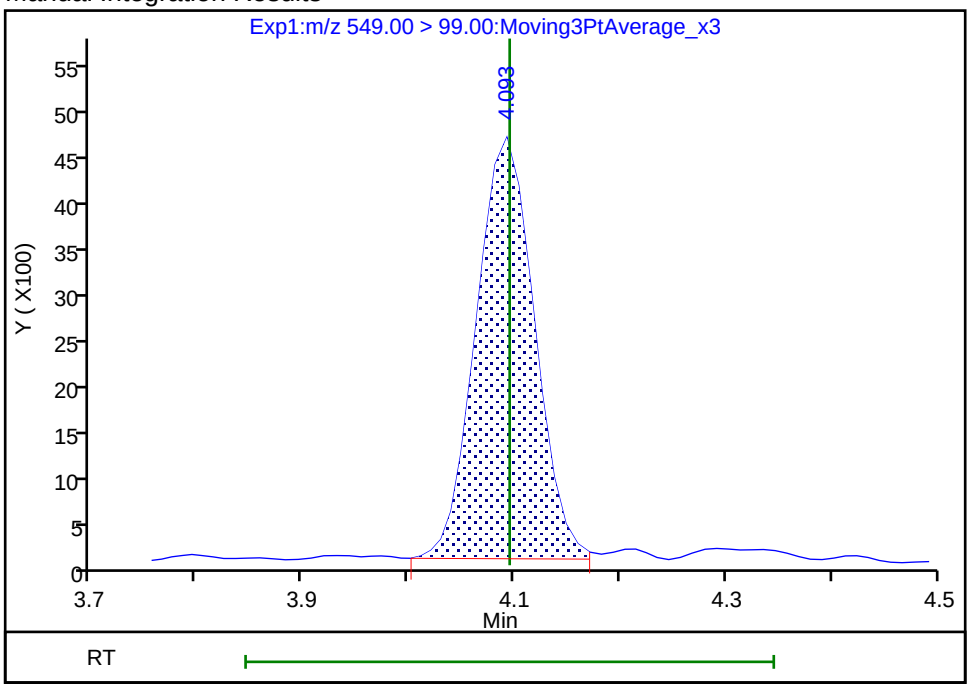
Processing Integration Results

RT: 4.09
Area: 17997
Amount: 0.099852
Amount Units: ng/ml



Manual Integration Results

RT: 4.09
Area: 17680
Amount: 0.102055
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:48:16
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

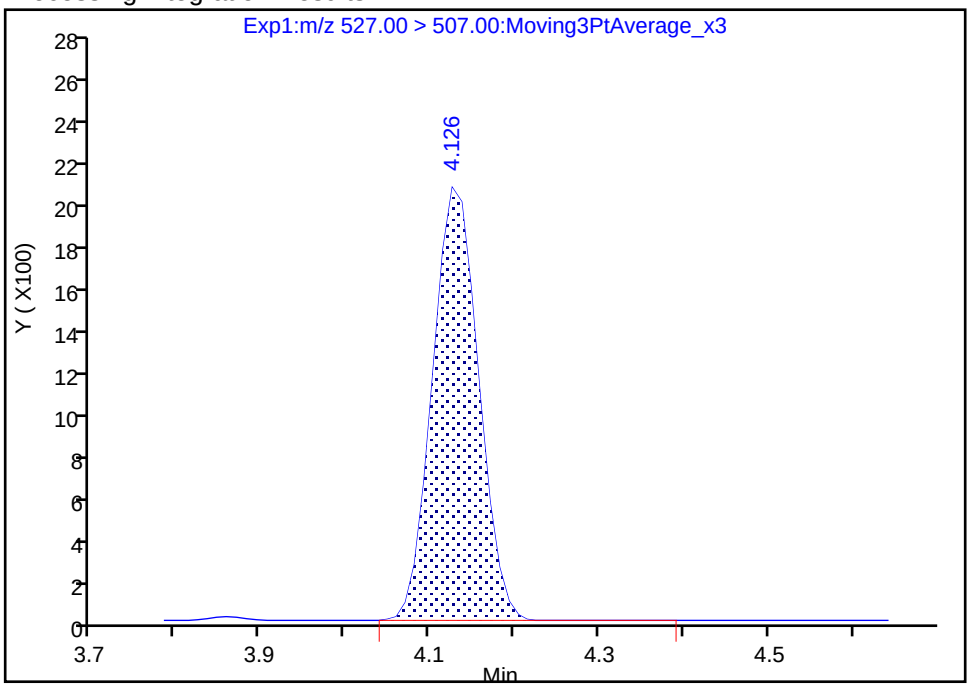
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL009.d				
Injection Date:	22-Dec-2020 12:56:31	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

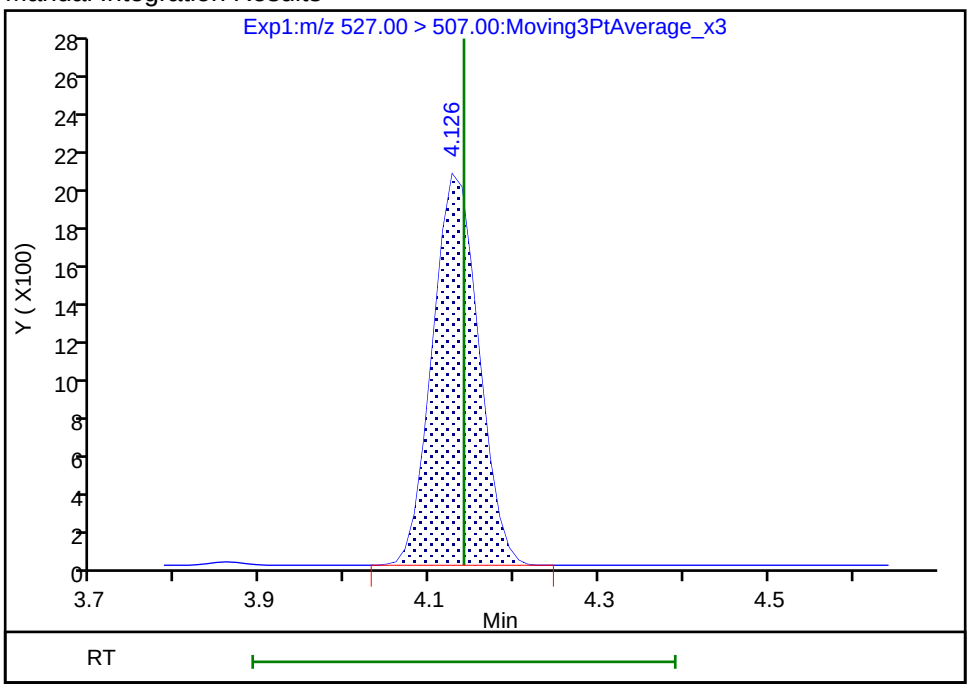
Processing Integration Results

RT: 4.13
Area: 7849
Amount: 0.107751
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 7849
Amount: 0.109988
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:48:04

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

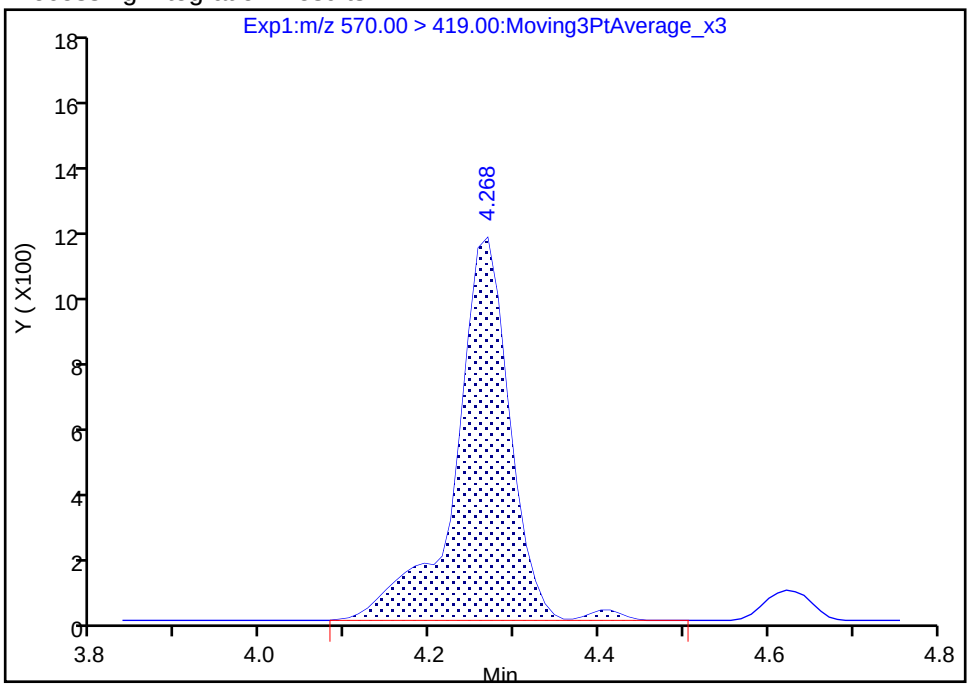
Data File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL009.d
Injection Date: 22-Dec-2020 12:56:31 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

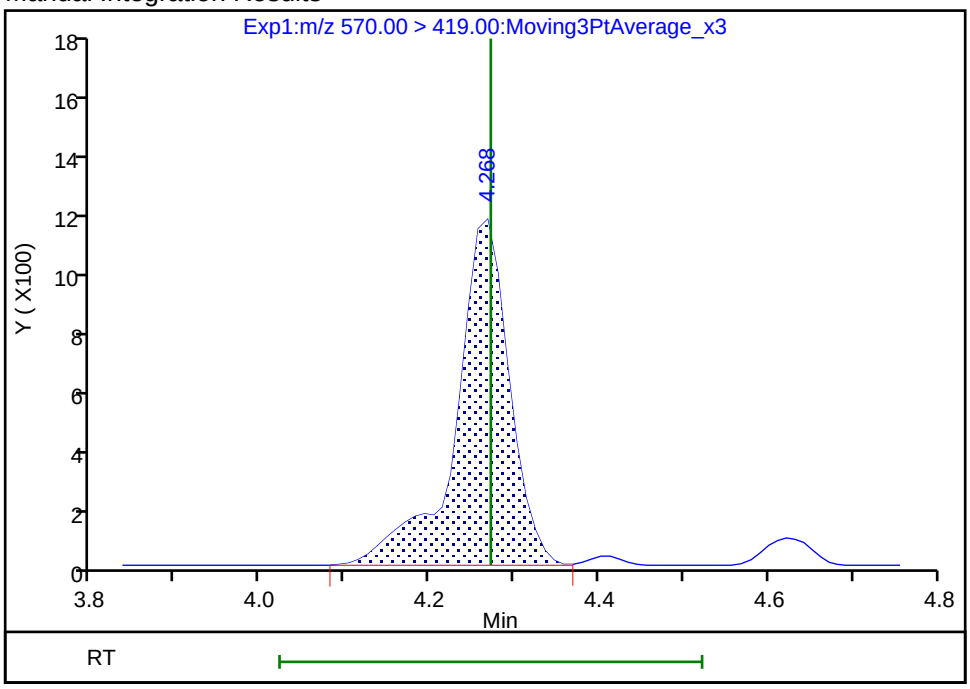
Processing Integration Results

RT: 4.27
Area: 5303
Amount: 0.103943
Amount Units: ng/ml



Manual Integration Results

RT: 4.27
Area: 5218
Amount: 0.105294
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:47:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

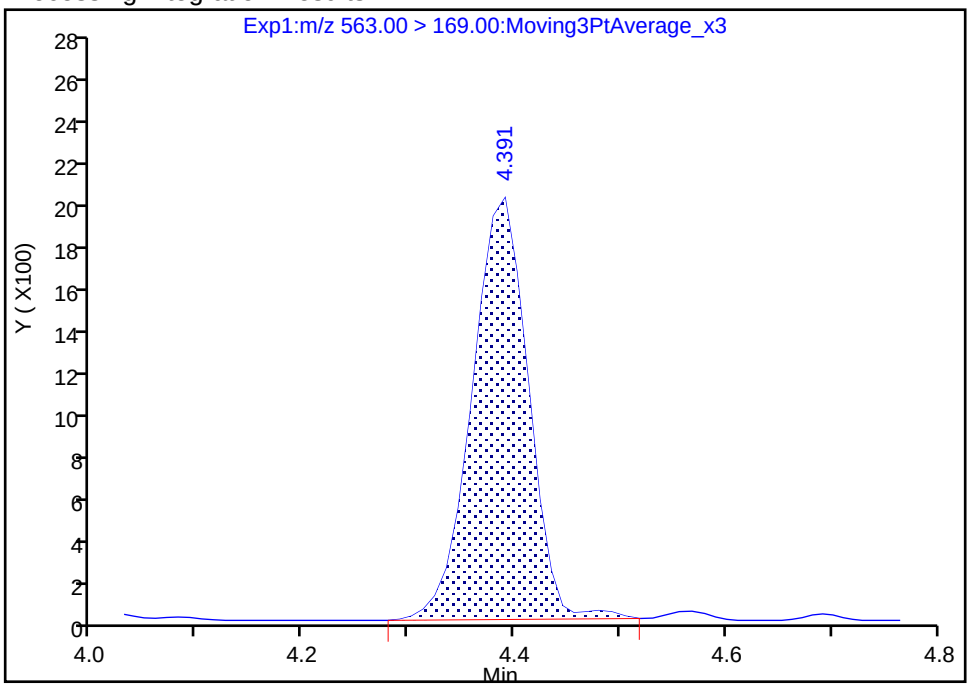
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL009.d				
Injection Date:	22-Dec-2020 12:56:31	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

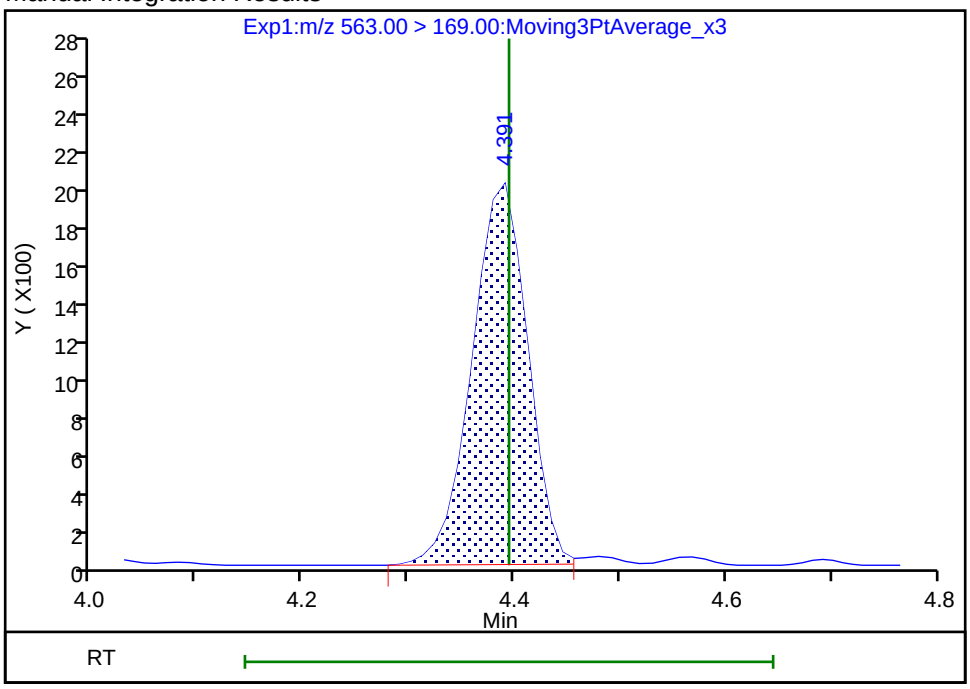
Processing Integration Results

RT: 4.39
Area: 7470
Amount: 0.104826
Amount Units: ng/ml



Manual Integration Results

RT: 4.39
Area: 7377
Amount: 0.104732
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:47:22

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

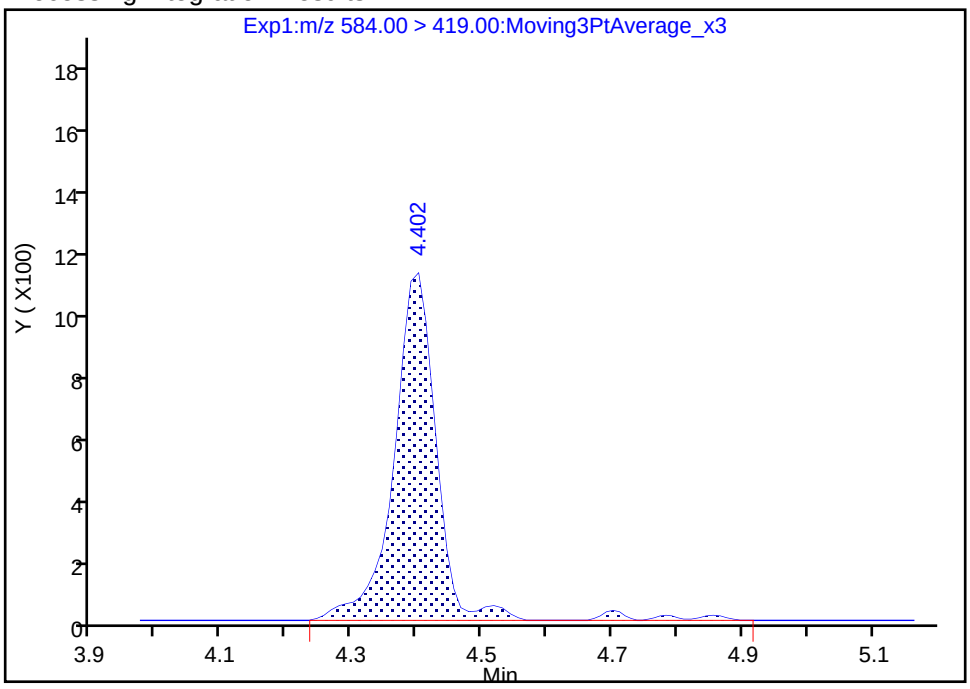
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL009.d				
Injection Date:	22-Dec-2020 12:56:31	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

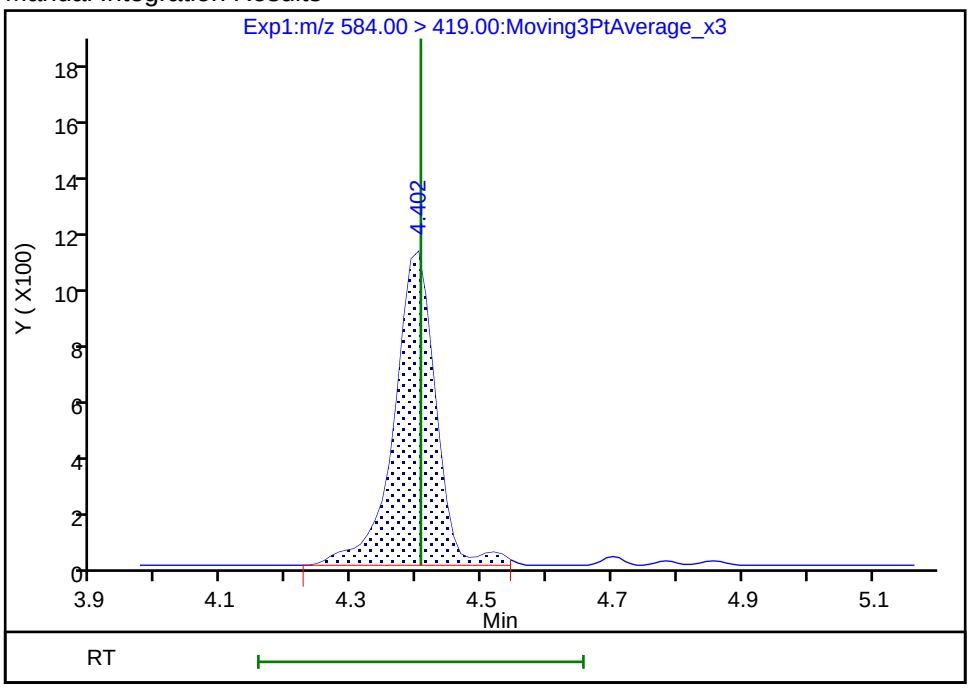
Processing Integration Results

RT: 4.40
Area: 4955
Amount: 0.095218
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 4802
Amount: 0.097444
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:47:50
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL010.d
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 22-Dec-2020 13:04:47 ALS Bottle#: 4 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 200-0044184-010 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812
Sublist: chrom-PFC_LC812*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 22-Dec-2020 14:39:27 Calib Date: 22-Dec-2020 13:29:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1625

First Level Reviewer: deannd Date: 22-Dec-2020 13:54:26
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.082	2.091	-0.009	0.596	1203352	1.30		104	8925	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.091	2.091	0.0	1.004	456581	0.4733		94.7	58.6	
D 3 13C5 PFPeA										
267.90 > 223.00	2.400	2.414	-0.014	0.687	856461	1.28		102	3165	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.413	2.414	-0.001	1.005	366588	0.4832		96.6	14.1	M
D 47 13C3 PFBS										
301.90 > 80.00	2.426	2.427	-0.001	0.695	1038343	1.18		101	190646	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.426	2.427	-0.001	1.000	439919	0.4354	Target=2.21	98.5	936	
298.90 > 99.00	2.426	2.427	-0.001	1.000	196460		2.24(1.10-3.31)	98.5	210	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.722	2.735	-0.013	1.000	61951	0.4587		98.2	1168	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.722	2.735	-0.013	0.779	85984	1.17		100	90.5	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.758	2.771	-0.013	0.790	903699	1.29		103	3305	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.758	2.771	-0.013	1.000	370199	0.4687	Target=12.17	93.7	92.5	
313.00 > 119.00	2.758	2.771	-0.013	1.000	30072		12.31(6.09-18.26)	93.7	46.5	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.770	2.771	-0.001	0.884	405410	0.4727	Target=3.32	101	1026	
349.00 > 99.00	2.770	2.771	-0.001	0.884	124768		3.25(1.66-4.98)	101	227	
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.868	2.881	-0.013	1.000	84587	0.4417		88.3	9.7	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.868	2.881	-0.013	0.821	172775	1.40		112	1278	
D 11 18O2 PFHxS										
403.00 > 84.00	3.132	3.133	-0.001	0.897	772740	1.18		99.5	3063	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.132	3.133	-0.001	1.000	348983	0.4532	Target=4.08	99.6	333	
399.00 > 99.00	3.132	3.133	-0.001	1.000	83133		4.20(2.04-6.11)	99.6	75.2	
D 9 13C4 PFHpA										
367.00 > 322.00	3.132	3.133	-0.001	0.897	892830	1.33		106	4015	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.132	3.133	-0.001	1.000	364247	0.4669	Target=3.70	93.4	90.6	
363.00 > 169.00	3.132	3.133	-0.001	1.000	98861		3.68(1.85-5.56)	93.4	266	
77 DONA										
377.00 > 251.00	3.175	3.176	-0.001	0.835	718739	0.4722	Target=2.47	100	864	
377.00 > 85.00	3.164	3.176	-0.012	0.832	296310		2.43(1.23-3.70)	100	299	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.474	3.484	-0.010	0.913	299175	0.4875	Target=5.85	102	1865	
449.00 > 99.00	3.474	3.484	-0.010	0.913	49233		6.08(2.93-8.78)	102	263	
D 12 M2-6:2 FTS										M
429.00 > 81.00	3.483	3.484	-0.001	0.997	102545	1.25		105	434	M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.483	3.484	-0.001	1.000	43065	0.4483		94.6	540	M
D 14 13C4 PFOA										
417.00 > 372.00	3.492	3.493	-0.001	1.000	857479	1.25		100	3031	
* 62 13C2 PFOA										
415.00 > 370.00	3.492	3.493	-0.001		863609	1.25			2079	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.492	3.493	-0.001	1.000	367859	0.4947	Target=2.58	98.9	74.6	M
413.00 > 169.00	3.492	3.493	-0.001	1.000	139299		2.64(1.29-3.87)	98.9	307	M
D 18 13C4 PFOS										
503.00 > 80.00	3.804	3.806	-0.002	1.089	543196	1.20		101	1530	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.804	3.806	-0.002	1.000	243758	0.4663	Target=5.56	100	344	M
499.00 > 99.00	3.804	3.806	-0.002	1.000	40689		5.99(2.78-8.34)	100	175	M
D 19 13C5 PFNA										
468.00 > 423.00	3.825	3.826	-0.001	1.095	772347	1.28		102	3142	
20 Perfluorononanoic acid										
463.00 > 419.00	3.825	3.826	-0.001	1.000	333548	0.4877	Target=6.87	97.5	56.9	
463.00 > 169.00	3.825	3.826	-0.001	1.000	48745		6.84(3.43-10.30)	97.5	496	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.964	3.967	-0.003	1.042	275177	0.4718		101	1786	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.093	4.095	-0.002	1.076	195317	0.5008	Target=2.78	104	2076	
549.00 > 99.00	4.093	4.095	-0.002	1.076	64085		3.05(1.39-4.17)	104	211	
D 23 13C2 PFDA										
515.00 > 470.00	4.126	4.129	-0.003	1.182	721858	1.25		100	3027	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.126	4.129	-0.003	1.000	305912	0.5140	Target=9.03	103	248	
513.00 > 169.00	4.126	4.129	-0.003	1.000	35067		8.72(4.51-13.54)	103	262	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.126	4.140	-0.014	1.000	26606	0.4672		97.5	734	
D 26 M2-8:2 FTS										M
529.00 > 81.00	4.126	4.140	-0.014	1.182	100274	1.18		99.0	555	M
D 21 13C8 FOSA										
506.00 > 78.00	4.205	4.207	-0.002	1.204	1063884	1.26		100	2586	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.205	4.207	-0.002	1.000	423265	0.4962		99.2	1392	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.268	4.272	-0.004	1.222	54321	1.30		104	214	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.268	4.272	-0.004	1.000	16744	0.4347		86.9	164	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.358	4.362	-0.004	1.146	146348	0.4706	Target=2.76	97.6	911	
599.00 > 99.00	4.358	4.362	-0.004	1.146	55990		2.61(1.38-4.14)	97.6	249	
D 30 13C2 PFUnA										
565.00 > 520.00	4.380	4.384	-0.004	1.254	580063	1.22		98.0	2619	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.380	4.395	-0.015	1.000	244409	0.5164	Target=8.02	103	106	
563.00 > 169.00	4.380	4.395	-0.015	1.000	30090		8.12(4.01-12.03)	103	399	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.402	4.395	0.007	1.261	52130	1.29		103	354	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.402	4.406	-0.004	1.000	18172	0.4707		94.1	352	M
66 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.480	4.485	-0.005	1.178	294213	0.4861		103	2000	
D 36 13C2 PFDoA										
615.00 > 570.00	4.611	4.626	-0.015	1.320	642314	1.28		103	2858	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.622	4.626	-0.004	1.002	264312	0.4677	Target=6.85	93.5	73.5	
613.00 > 169.00	4.622	4.626	-0.004	1.002	45410		5.82(3.42-10.27)	93.5	1100	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.642	4.637	0.005	1.125	15677	0.5347		111	349	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.792	4.797	-0.005	1.260	54696	0.4781	Target=0.53	98.8	146	
699.00 > 99.00	4.792	4.797	-0.005	1.260	105717		0.52(0.26-0.79)	98.8	628	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.834	4.839	-0.005	1.048	226665	0.4942	Target=4.48	98.8	96.5	
663.00 > 169.00	4.834	4.839	-0.005	1.048	47211		4.80(2.24-6.72)	98.8	564	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.014	5.027	-0.013	1.436	480039	1.30		104	3351	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.024	5.027	-0.003	1.002	34379	0.4827	Target=0.99	96.5	848	
713.00 > 219.00	5.014	5.027	-0.013	1.000	34663		0.99(0.50-1.49)	96.5	949	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.372	5.374	-0.002	1.538	497203	1.26		101	1522	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.372	5.374	-0.002	1.000	195955	0.5138	Target=4.02	103	57.1	
813.00 > 169.00	5.372	5.374	-0.002	1.000	50967		3.84(2.01-6.02)	103	1147	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.711	5.722	-0.011	1.063	173296	0.4842	Target=3.88	96.8	133	
913.00 > 169.00	5.711	5.722	-0.011	1.063	45239		3.83(1.94-5.82)	96.8	618	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC3_00008 Amount Added: 100.00 Units: uL

Report Date: 22-Dec-2020 14:39:28 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL010.d

Injection Date: 22-Dec-2020 13:04:47 Instrument ID: LC812

Lims ID: IC

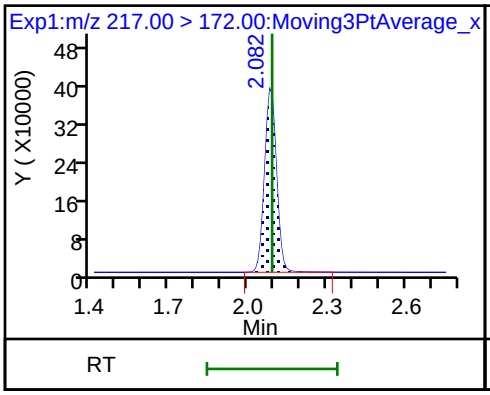
Client ID:

Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 10

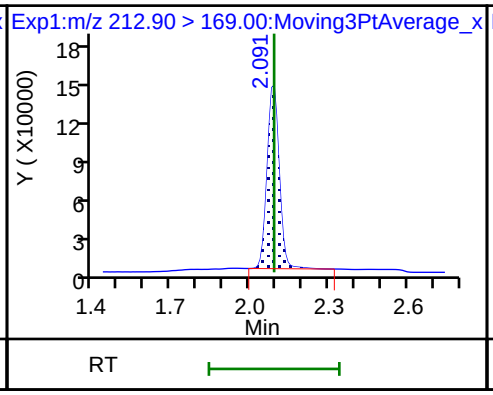
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

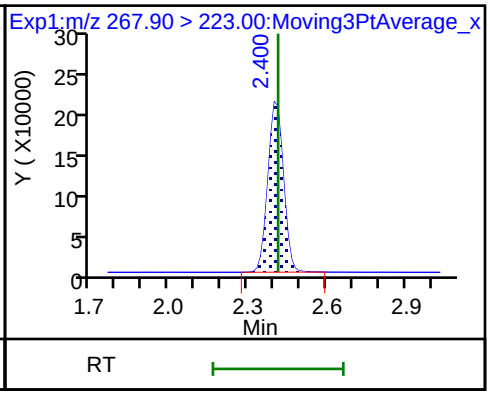
D 1 13C4 PFBA



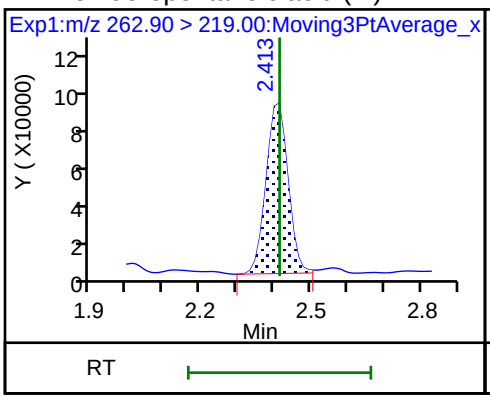
2 Perfluorobutanoic acid



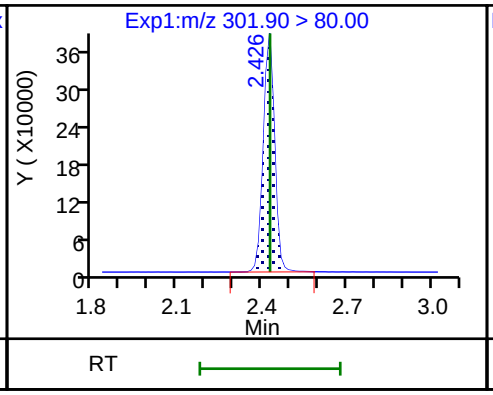
D 3 13C5 PFPeA



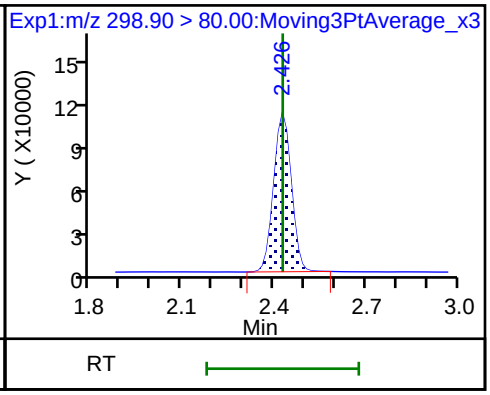
4 Perfluoropentanoic acid (M)



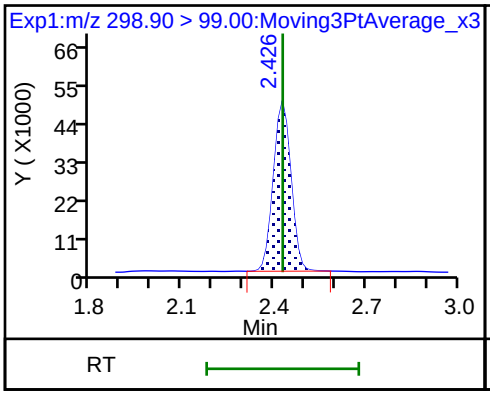
D 47 13C3 PFBS



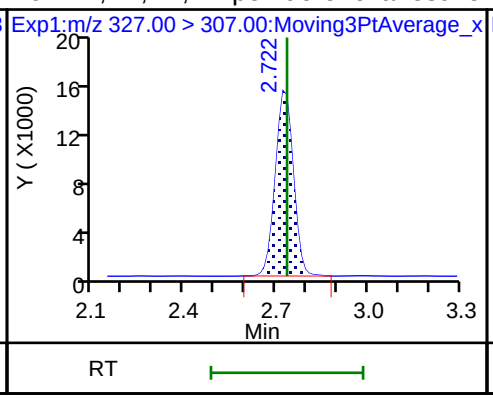
5 Perfluorobutanesulfonic acid



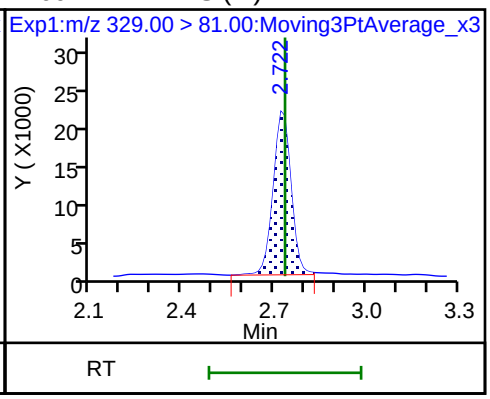
5 Perfluorobutanesulfonic acid



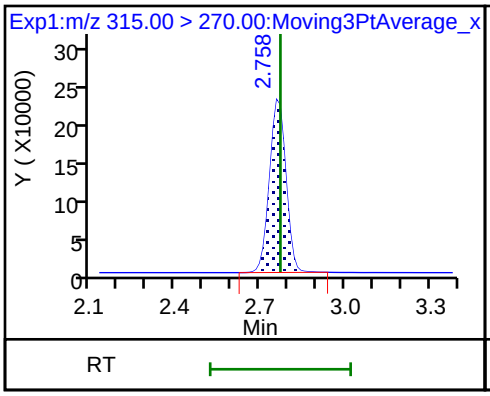
61 1H,1H,2H,2H-perfluorohexanesulfo



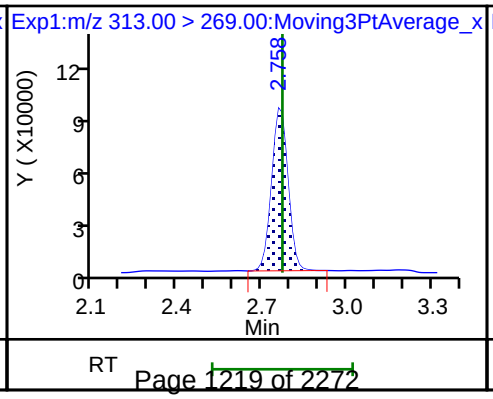
D 60 M2-4:2 FTS (M)



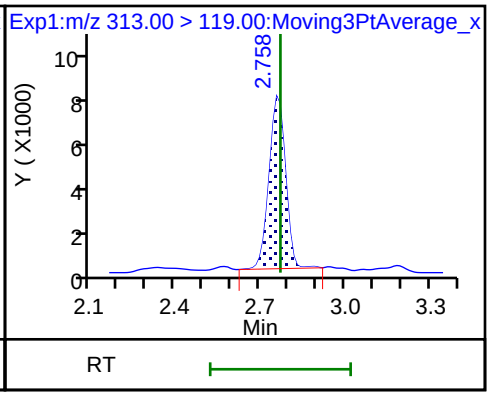
D 7 13C2 PFHxA



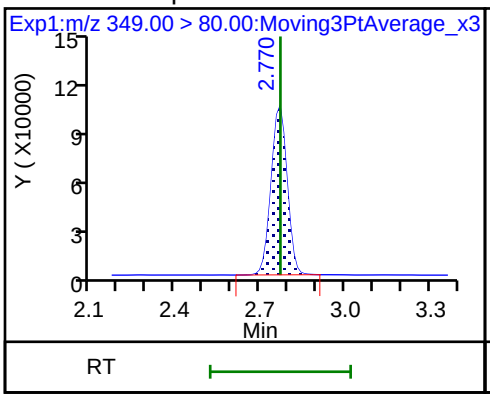
6 Perfluorohexanoic acid



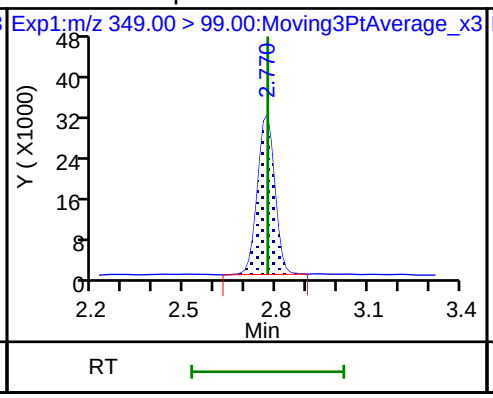
6 Perfluorohexanoic acid



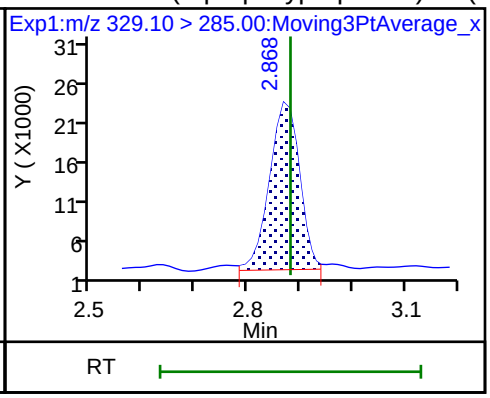
70 Perfluoropentanesulfonic acid



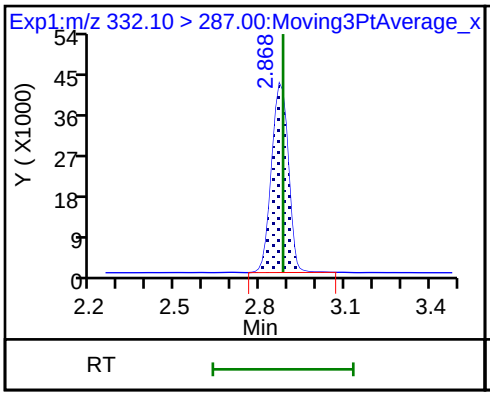
70 Perfluoropentanesulfonic acid



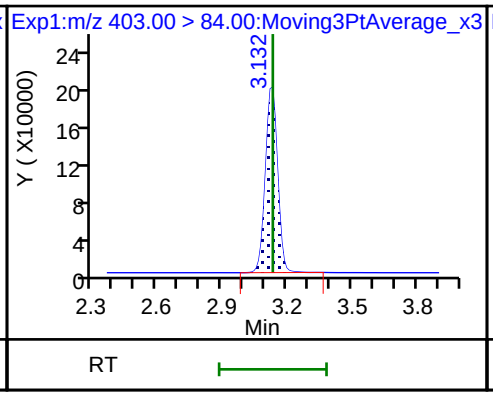
67 Perfluoro(2-propoxypropanoic) ac (M)



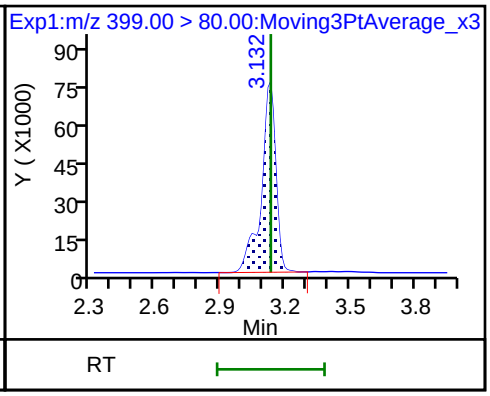
D 64 13C3 HFPO-DA



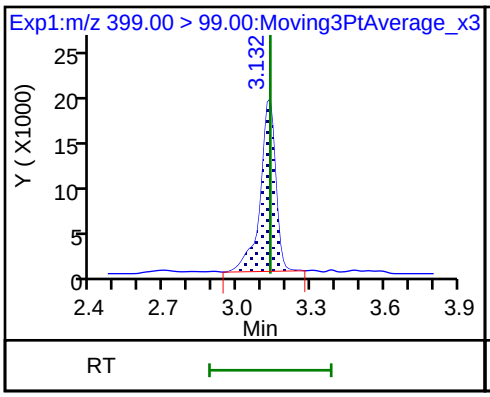
D 11 18O2 PFHxS



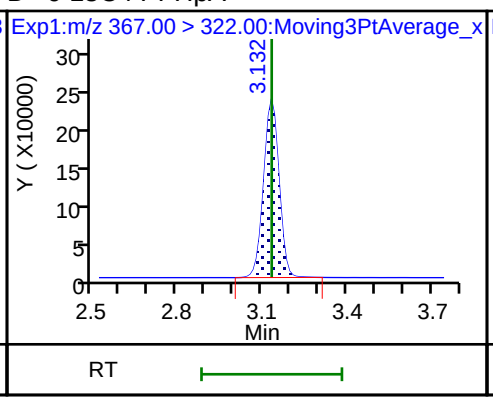
8 Perfluorohexanesulfonic acid



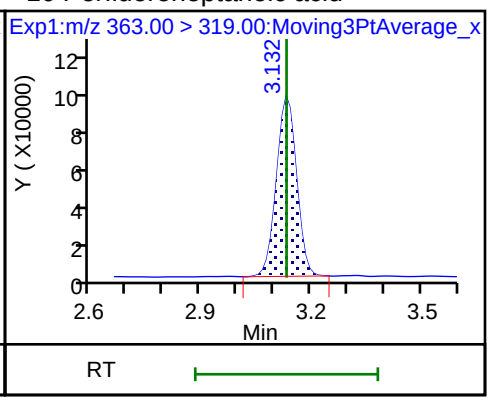
8 Perfluorohexanesulfonic acid



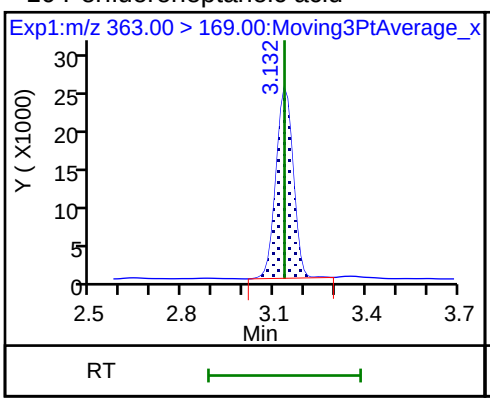
D 9 13C4 PFHpA



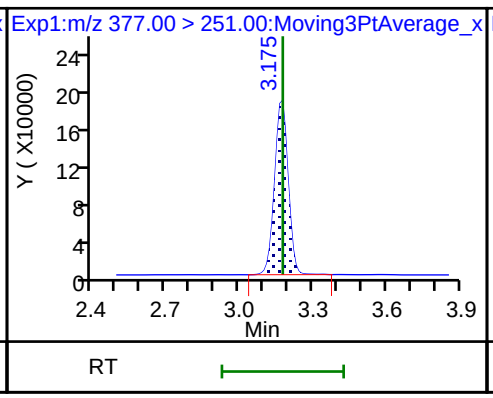
10 Perfluoroheptanoic acid



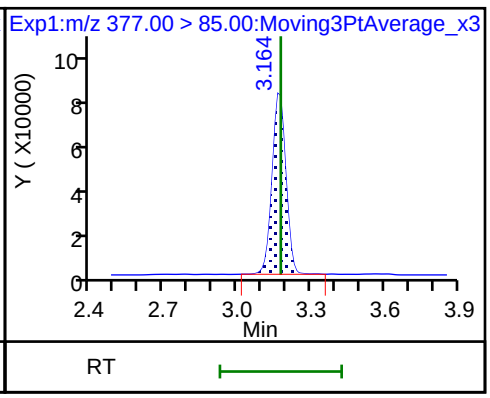
10 Perfluoroheptanoic acid



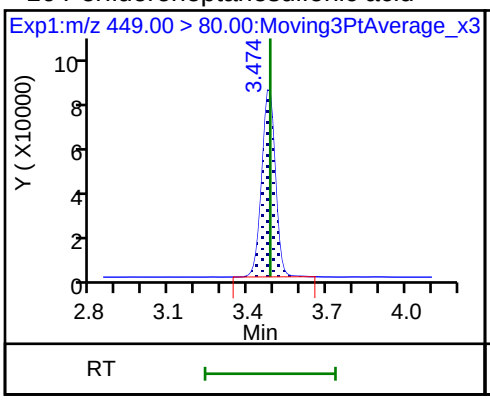
77 DONA



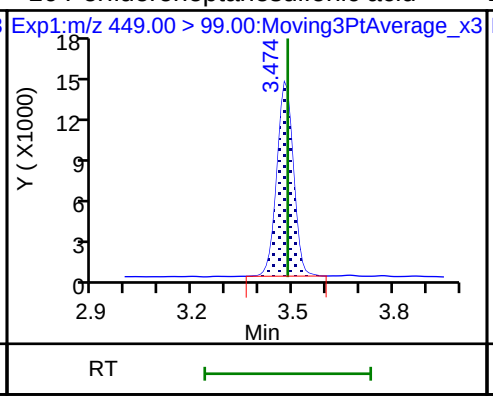
77 DONA



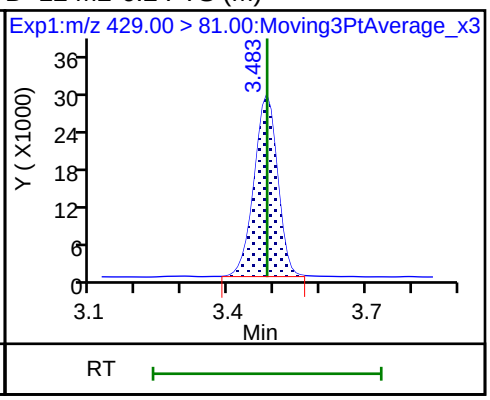
16 Perfluoroheptanesulfonic acid



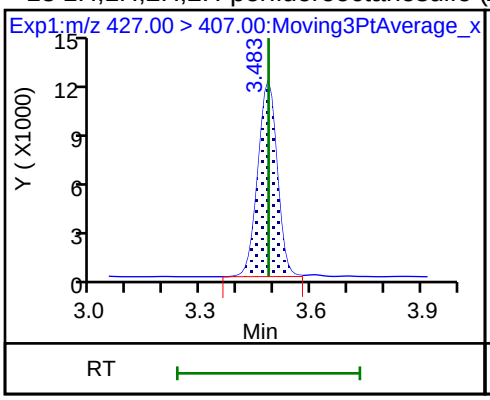
16 Perfluoroheptanesulfonic acid



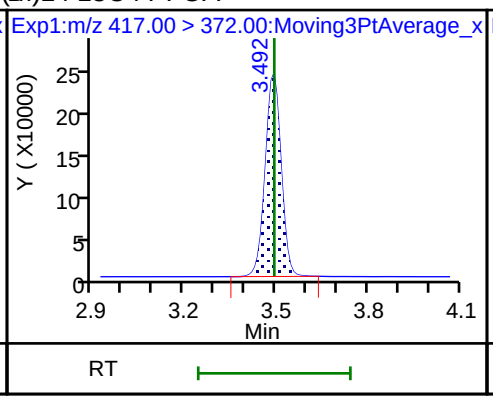
D 12 M2-6:2 FTS (M)



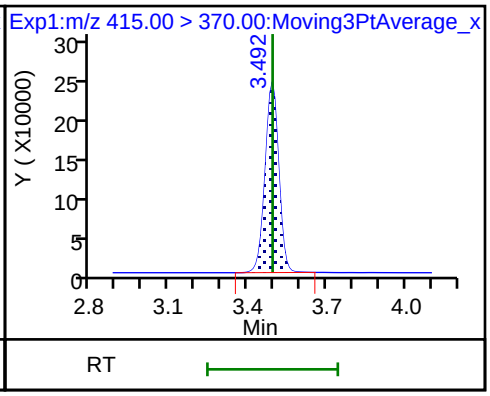
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



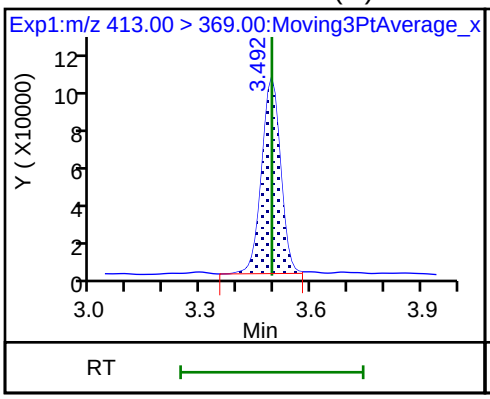
D 14 13C4 PFOA



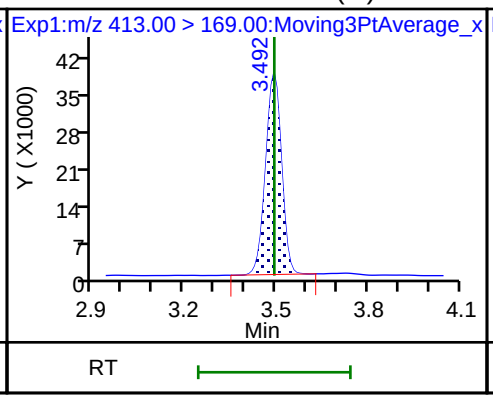
* 62 13C2 PFOA



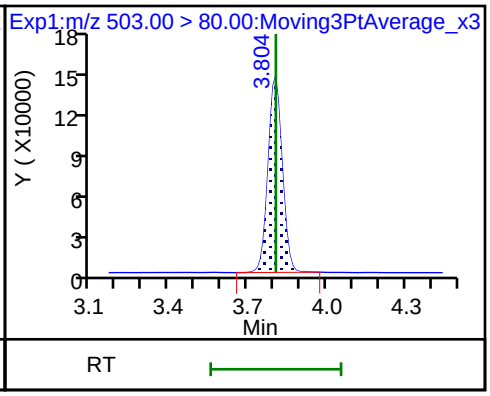
15 Perfluorooctanoic acid (M)



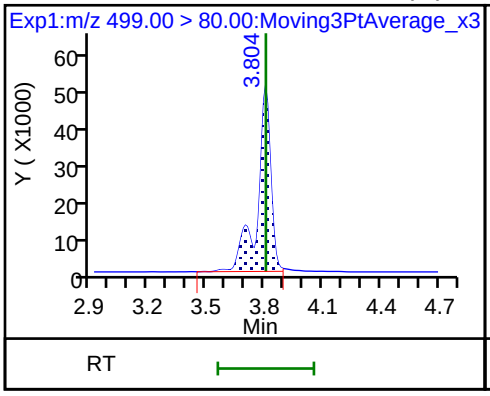
15 Perfluorooctanoic acid (M)



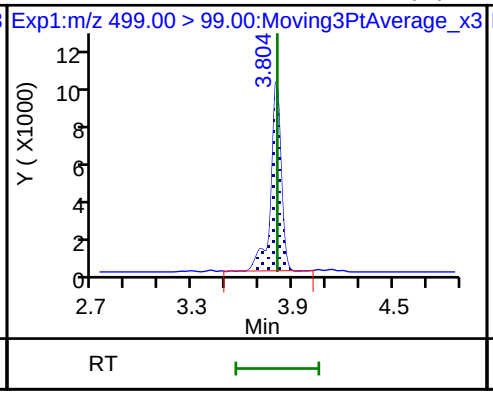
D 18 13C4 PFOS



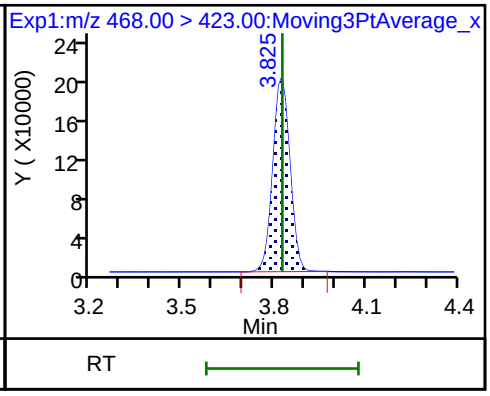
17 Perfluorooctanesulfonic acid (M)



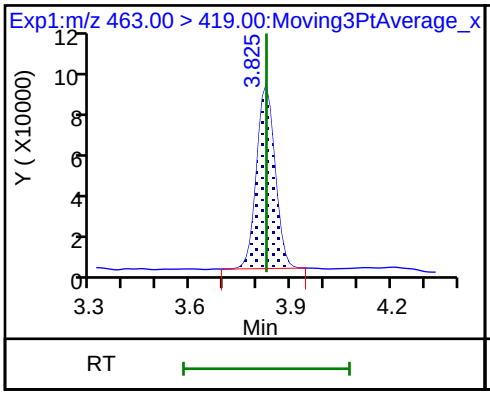
17 Perfluorooctanesulfonic acid (M)



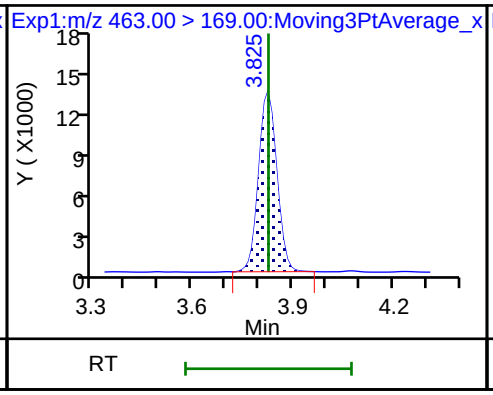
D 19 13C5 PFNA



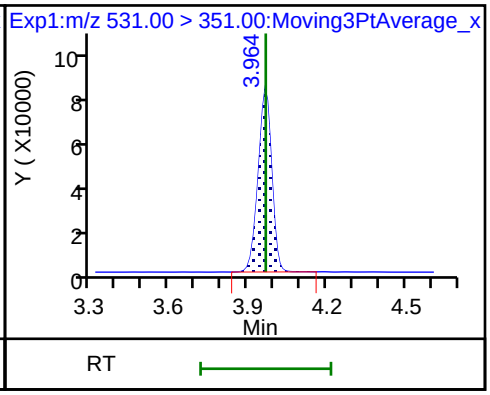
20 Perfluorononanoic acid



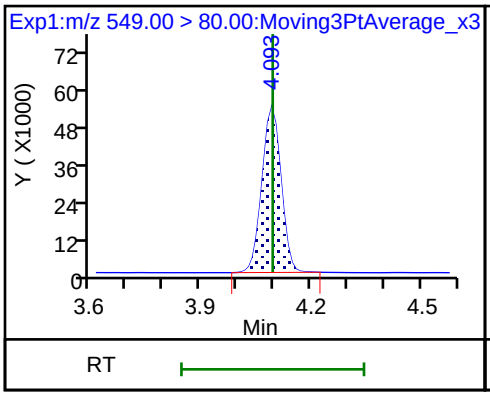
20 Perfluorononanoic acid



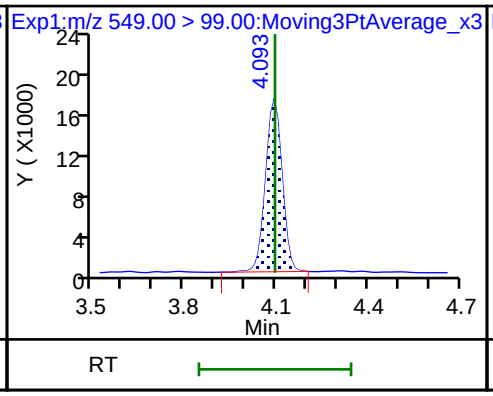
69 9-Chlorohexadecafluoro-3-oxanona



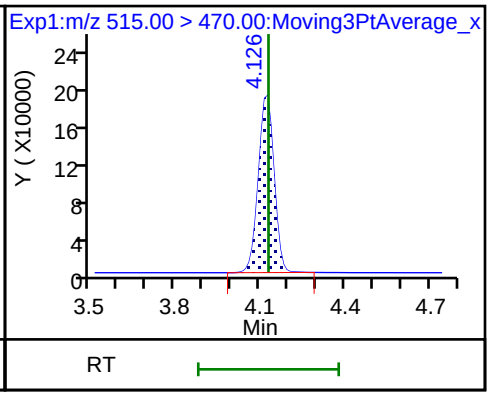
68 Perfluorononanesulfonic acid



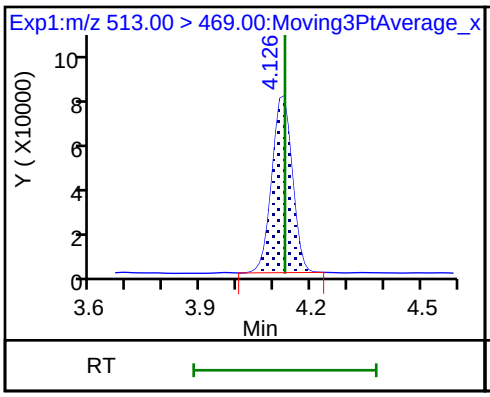
68 Perfluorononanesulfonic acid



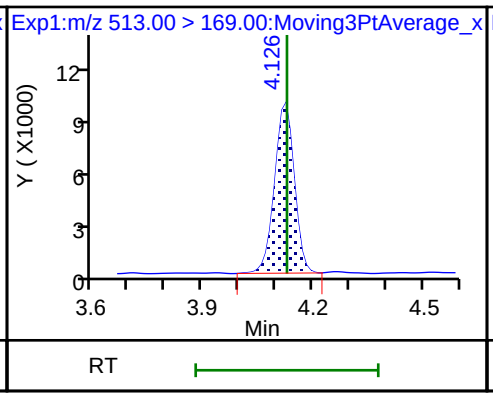
D 23 13C2 PFDA



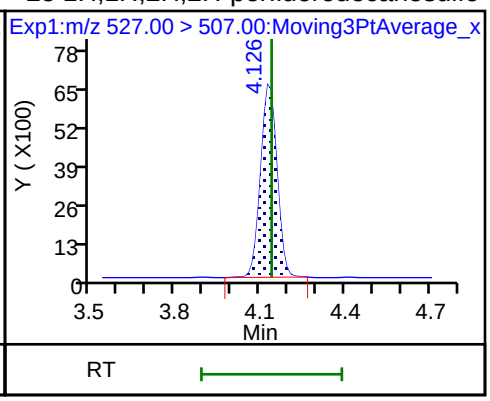
24 Perfluorodecanoic acid



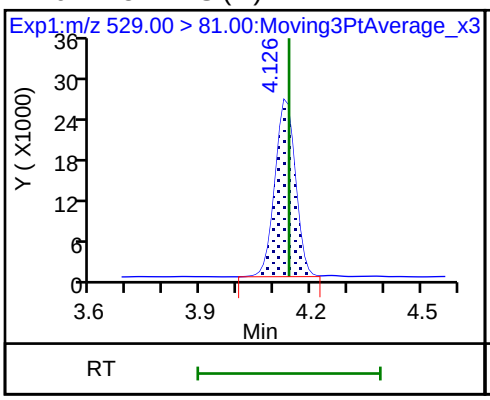
24 Perfluorodecanoic acid



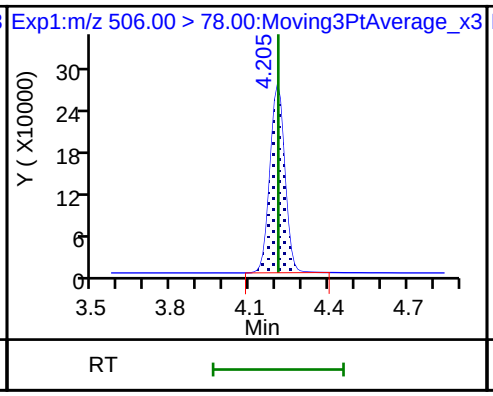
25 1H,1H,2H,2H-perfluorodecanesulfo



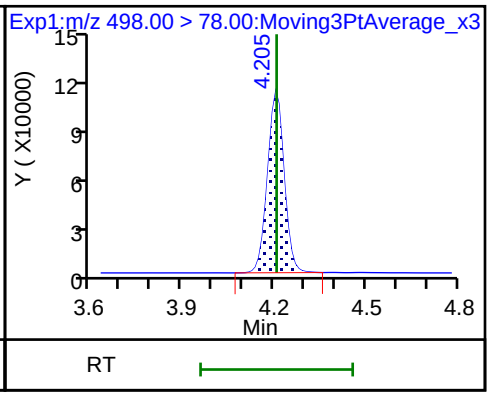
D 26 M2-8:2 FTS (M)



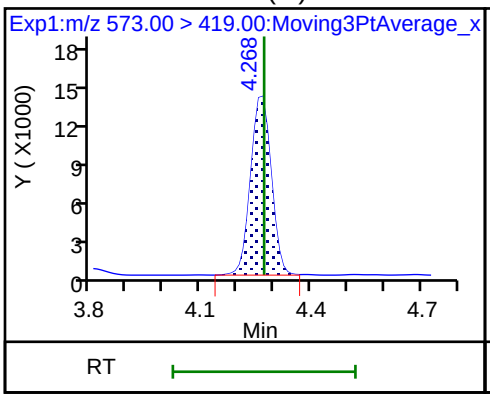
D 21 13C8 FOSA



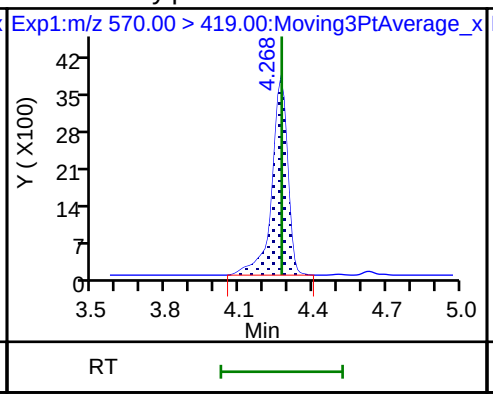
22 Perfluorooctanesulfonamide



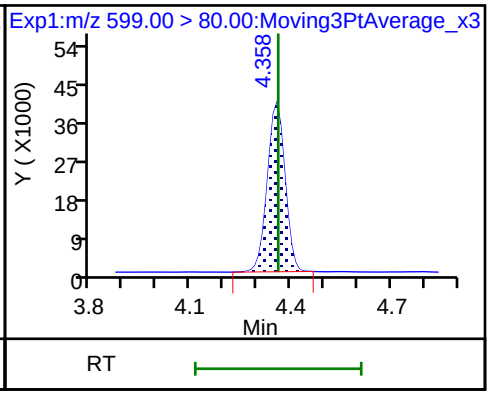
D 27 d3-NMeFOSAA (M)



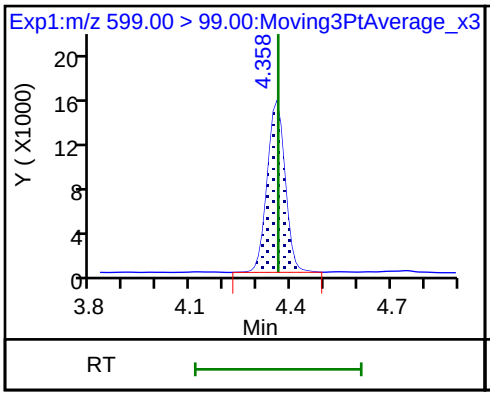
28 N-methylperfluorooctanesulfonami



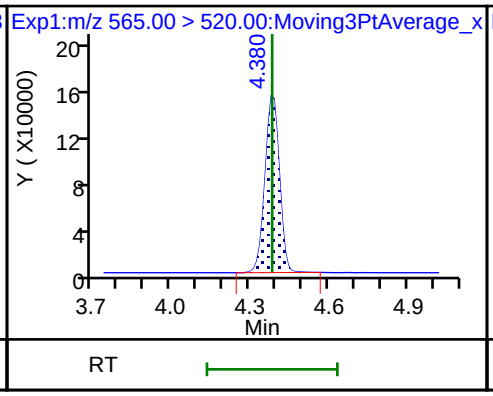
29 Perfluorodecanesulfonic acid



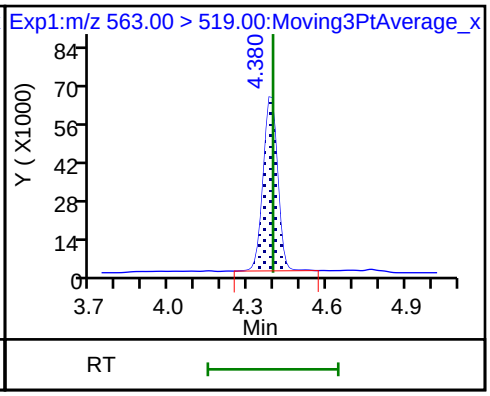
29 Perfluorodecanesulfonic acid



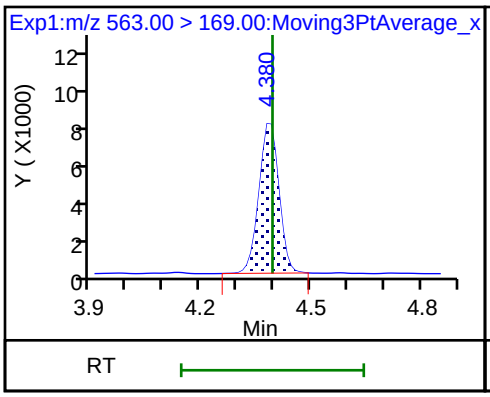
D 30 13C2 PFUnA



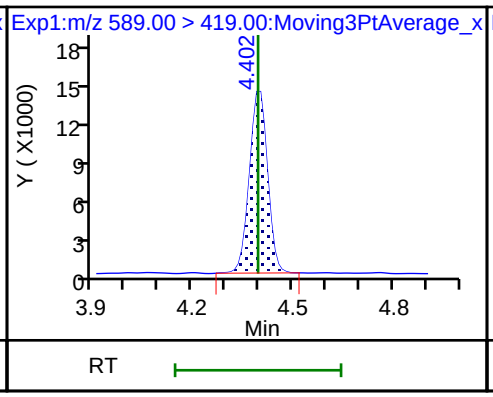
31 Perfluoroundecanoic acid



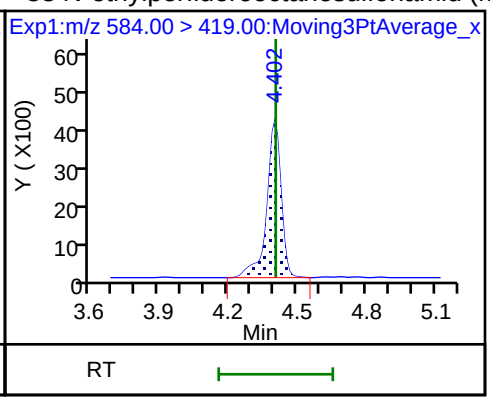
31 Perfluoroundecanoic acid



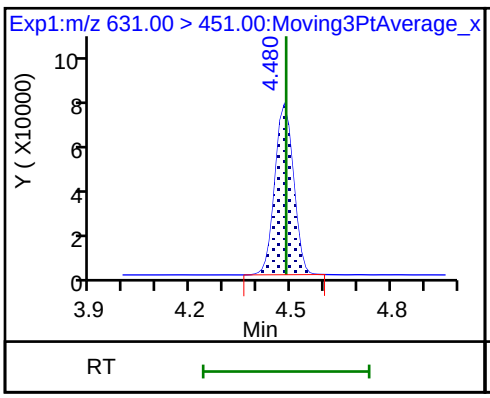
D 32 d5-NEtFOSAA



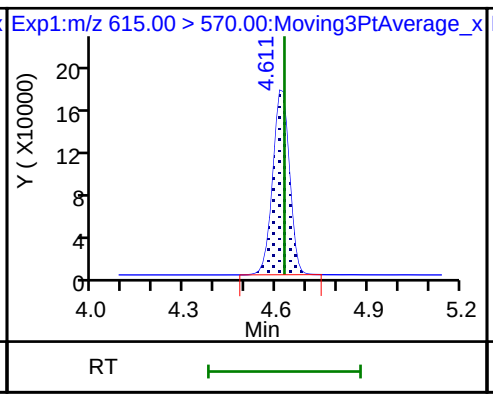
33 N-ethylperfluorooctanesulfonamid (M)



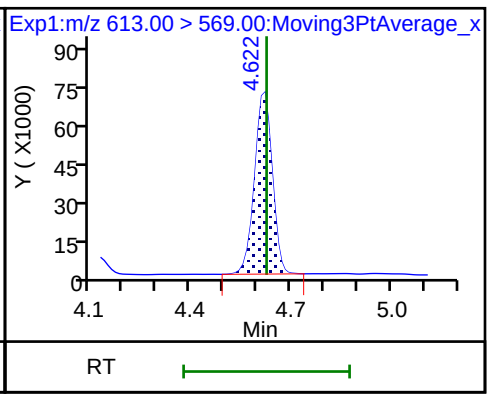
66 11-Chloroeicosafluoro-3-oxaundec



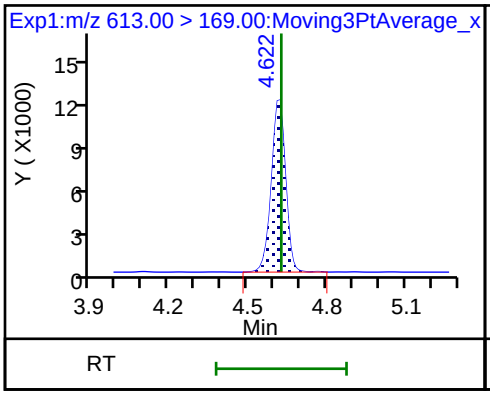
D 36 13C2 PFDoA



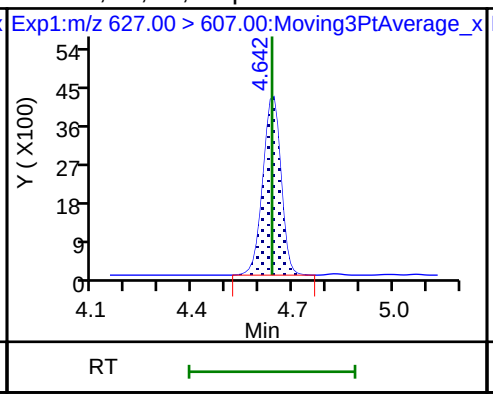
37 Perfluorododecanoic acid



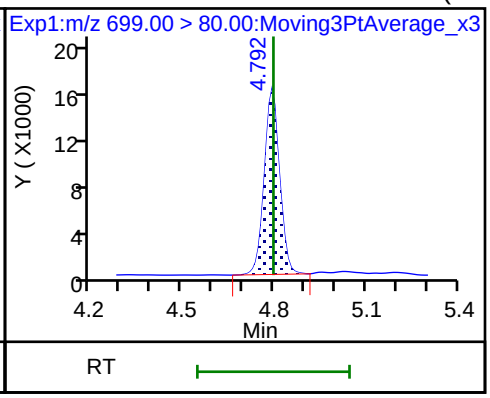
37 Perfluorododecanoic acid



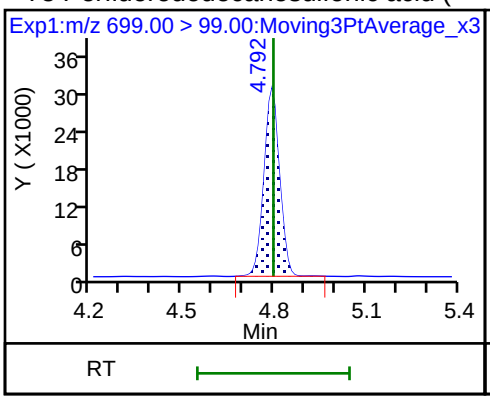
74 1H,1H,2H,2H-perfluorododecanesul



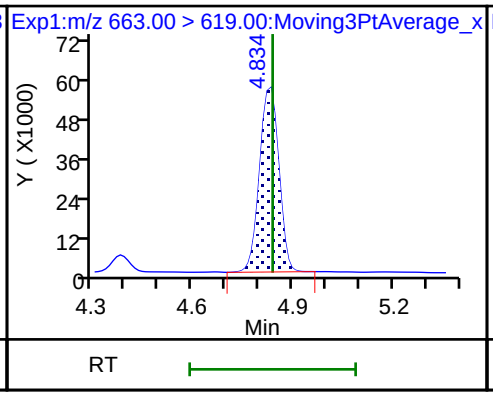
75 Perfluorododecanesulfonic acid (



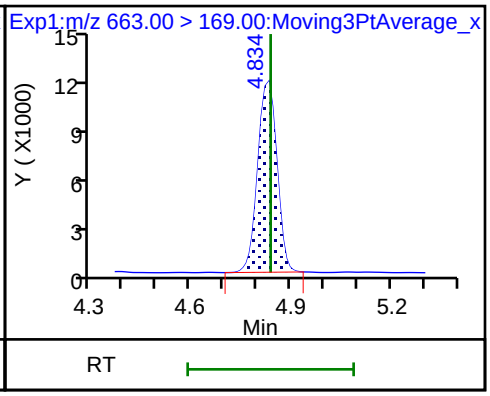
75 Perfluorododecanesulfonic acid (



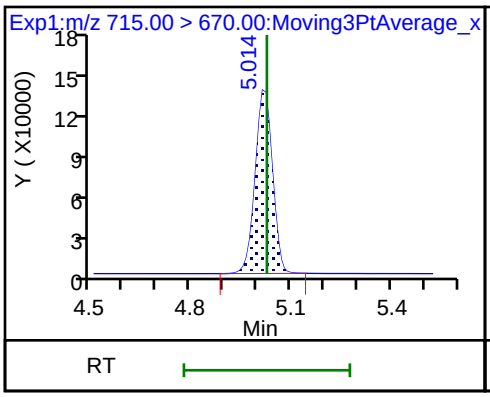
41 Perfluorotridecanoic acid



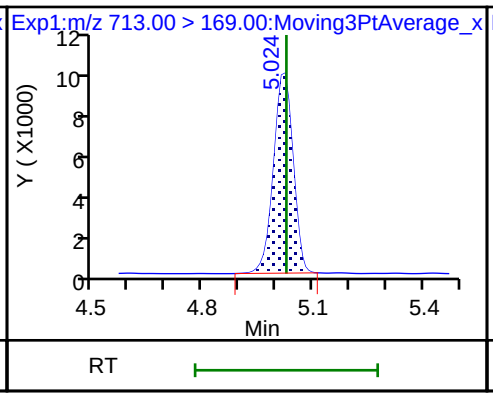
41 Perfluorotridecanoic acid



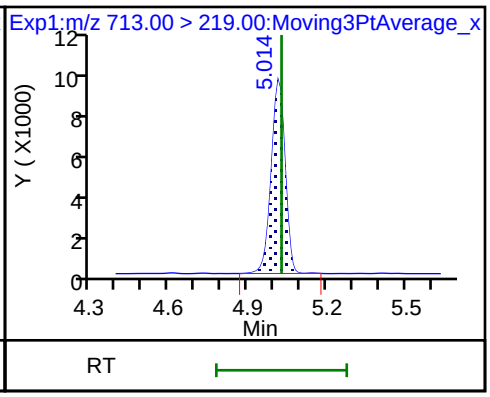
D 43 13C2 PFTeDA



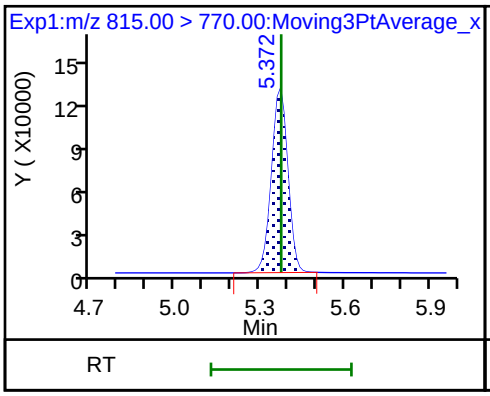
42 Perfluorotetradecanoic acid



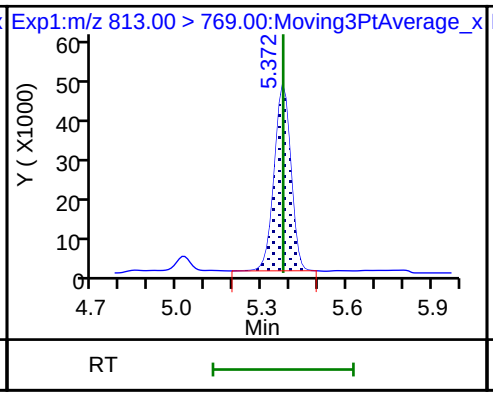
42 Perfluorotetradecanoic acid



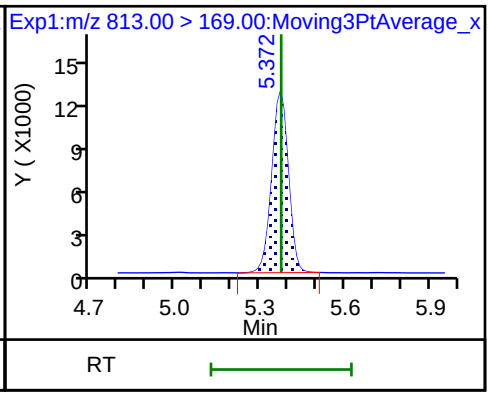
D 44 13C2 PFHxDA



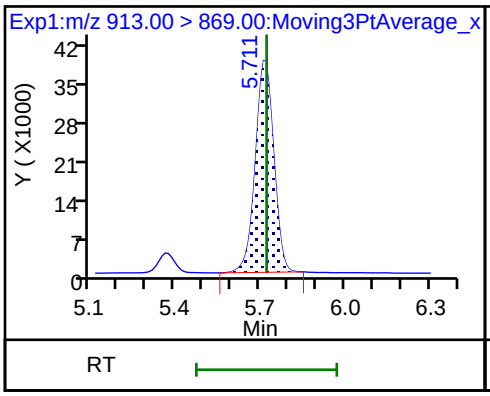
45 Perfluorohexadecanoic acid



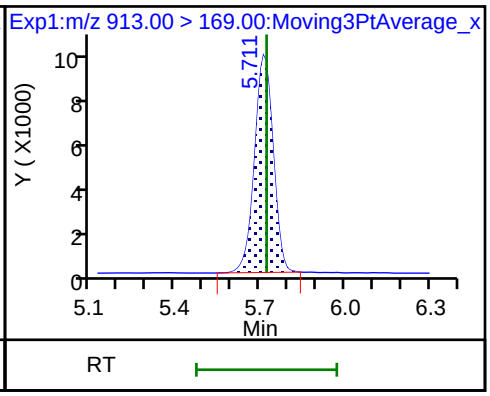
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

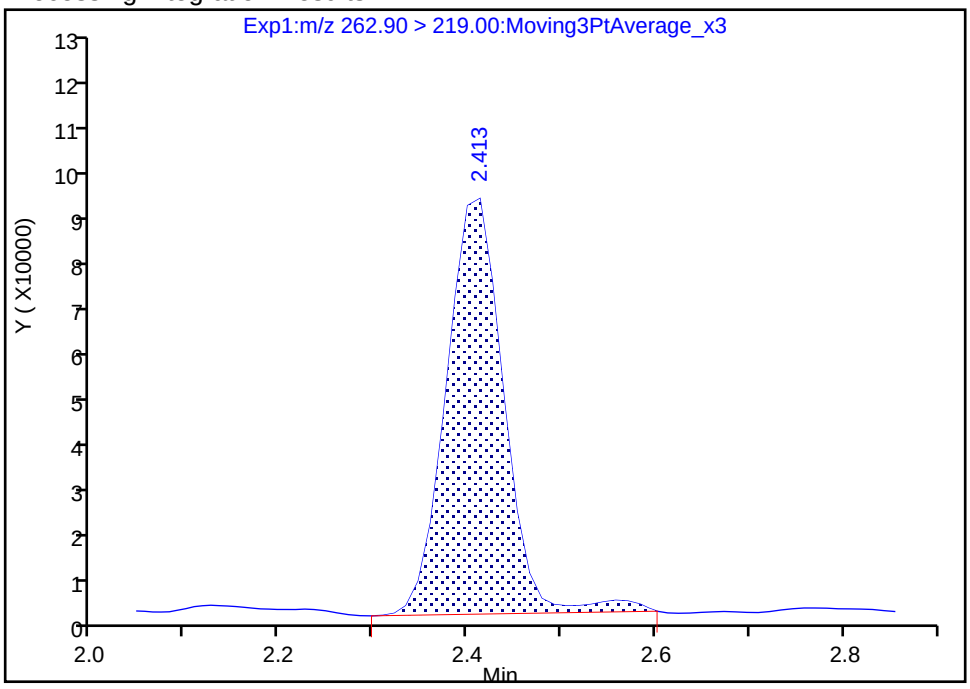
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL010.d				
Injection Date:	22-Dec-2020 13:04:47	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

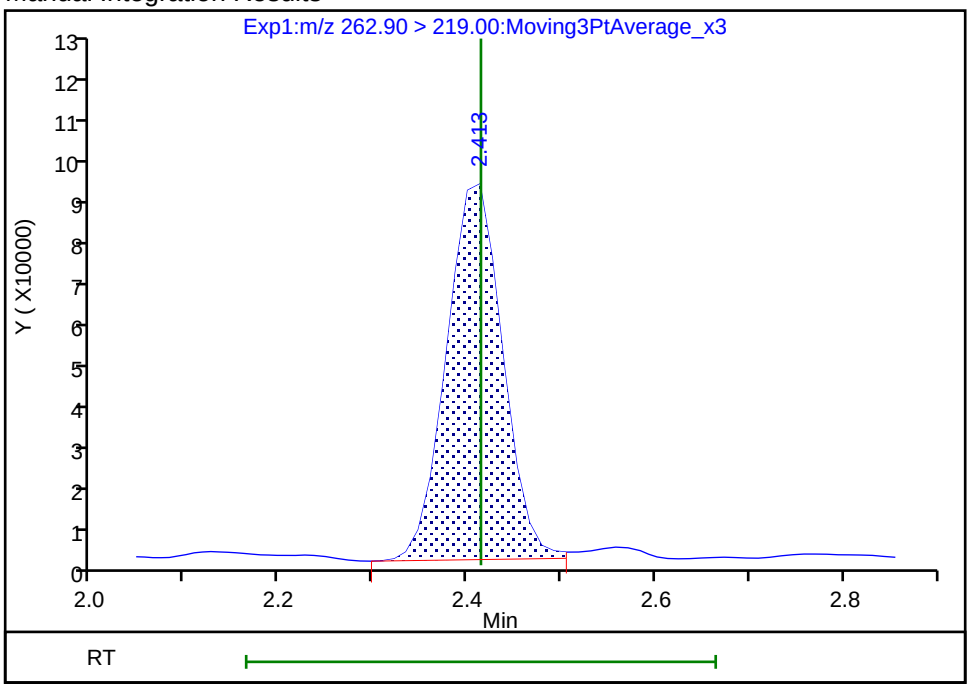
Processing Integration Results

RT: 2.41
Area: 376357
Amount: 0.514937
Amount Units: ng/ml



Manual Integration Results

RT: 2.41
Area: 366588
Amount: 0.483194
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:51:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

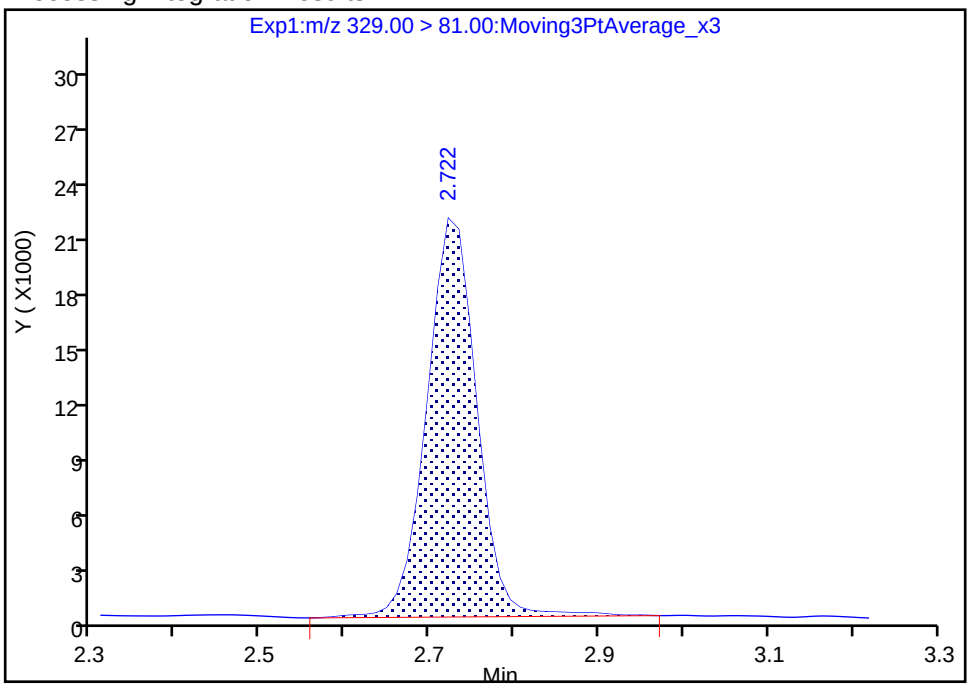
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL010.d				
Injection Date:	22-Dec-2020 13:04:47	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

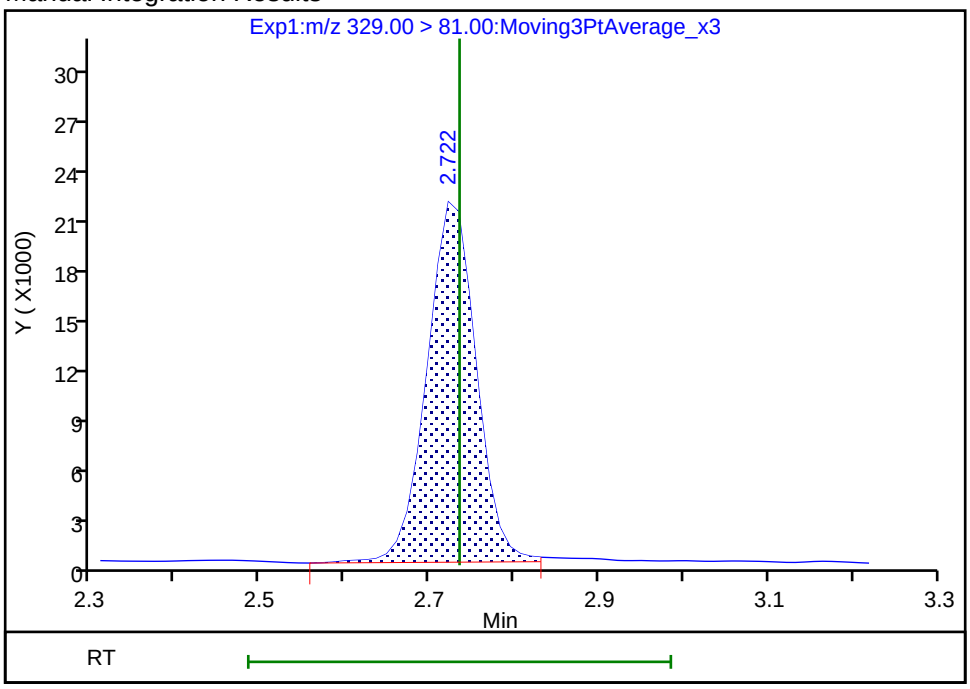
Processing Integration Results

RT: 2.72
Area: 87005
Amount: 1.182952
Amount Units: ng/ml



Manual Integration Results

RT: 2.72
Area: 85984
Amount: 1.167398
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:51:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

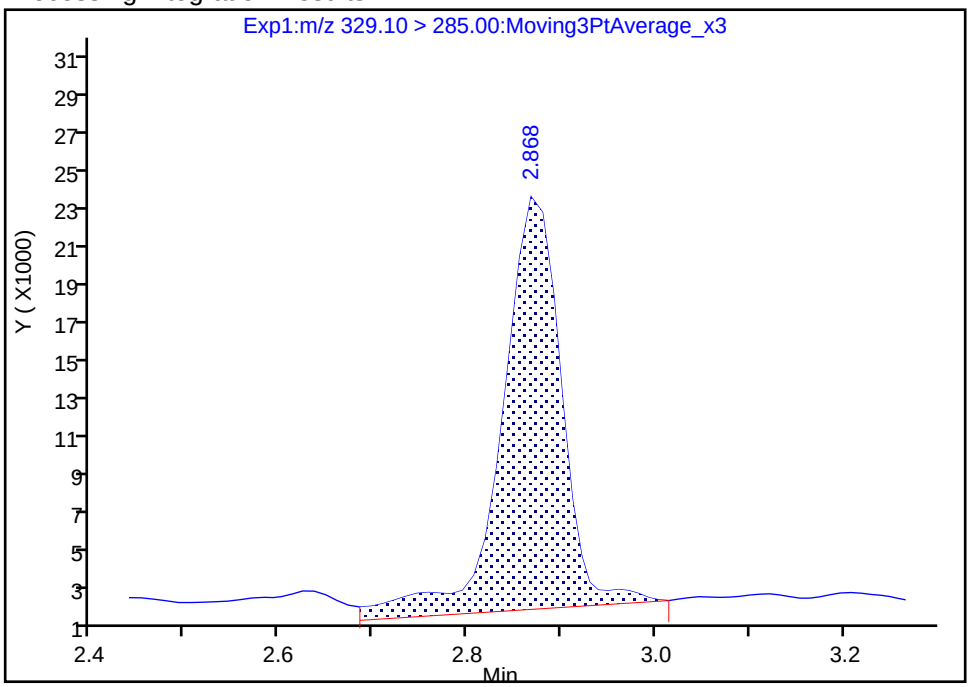
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL010.d				
Injection Date:	22-Dec-2020 13:04:47	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

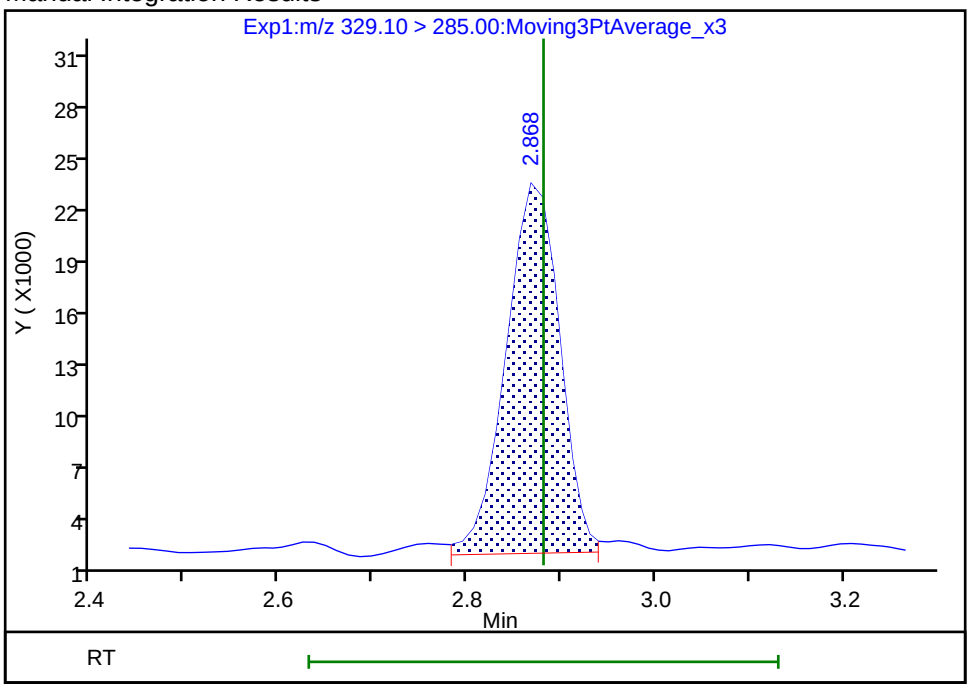
Processing Integration Results

RT: 2.87
Area: 95640
Amount: 0.527822
Amount Units: ng/ml



Manual Integration Results

RT: 2.87
Area: 84587
Amount: 0.441734
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:52:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

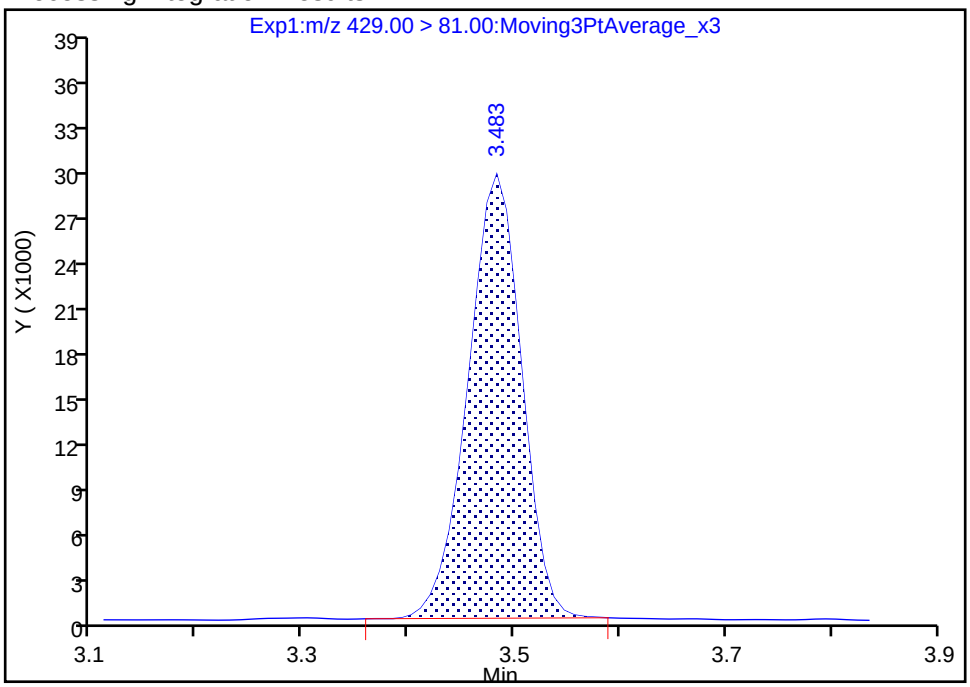
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL010.d				
Injection Date:	22-Dec-2020 13:04:47	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 12 M2-6:2 FTS, CAS: STL02279

Signal: 1

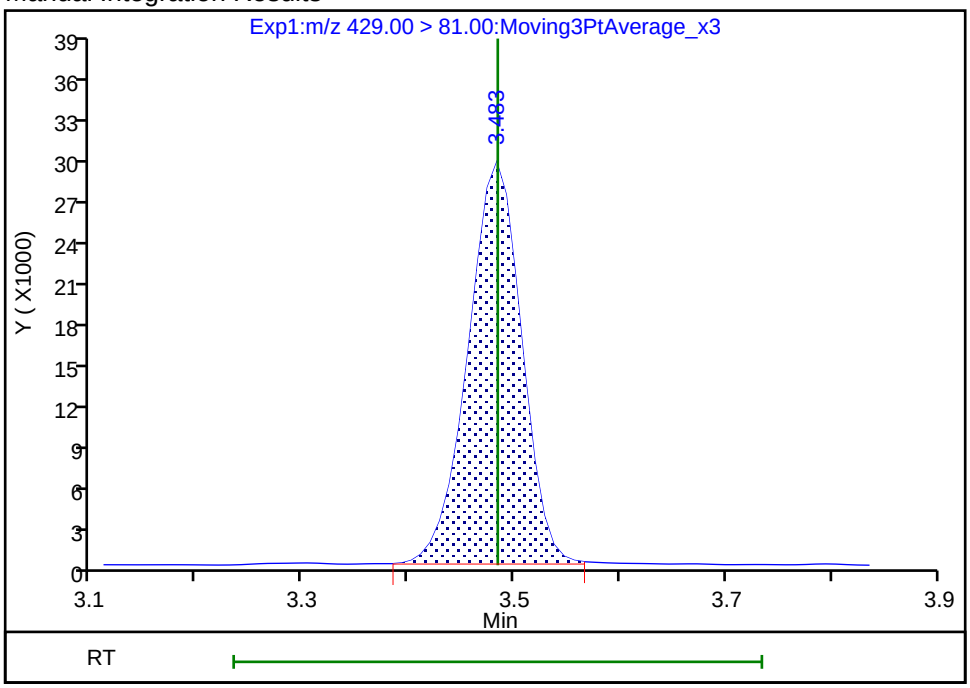
Processing Integration Results

RT: 3.48
Area: 102045
Amount: 1.245762
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 102545
Amount: 1.250373
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:52:25
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

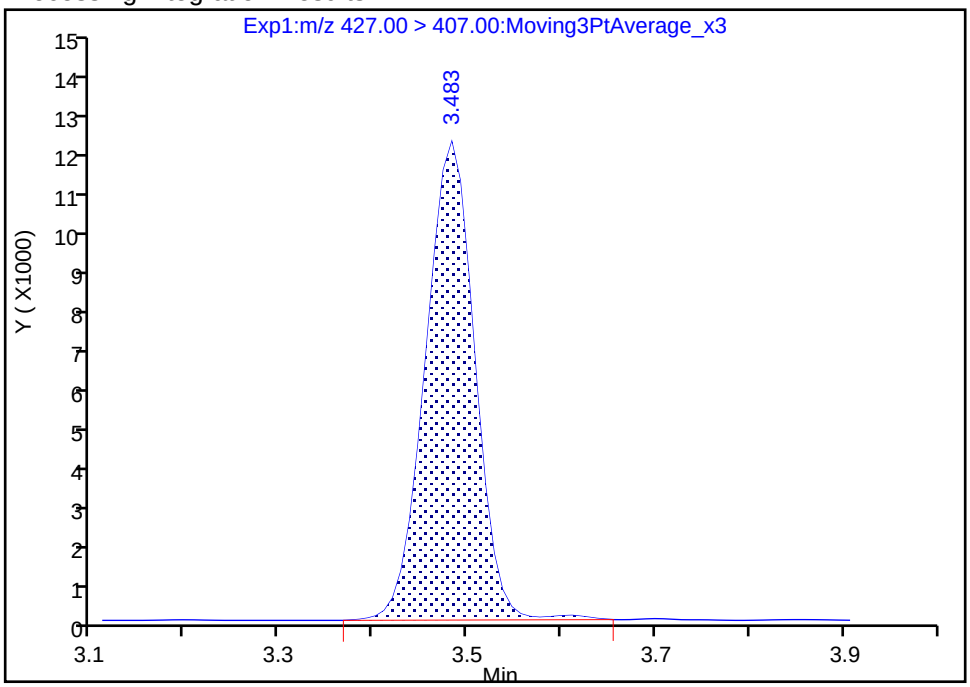
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL010.d				
Injection Date:	22-Dec-2020 13:04:47	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

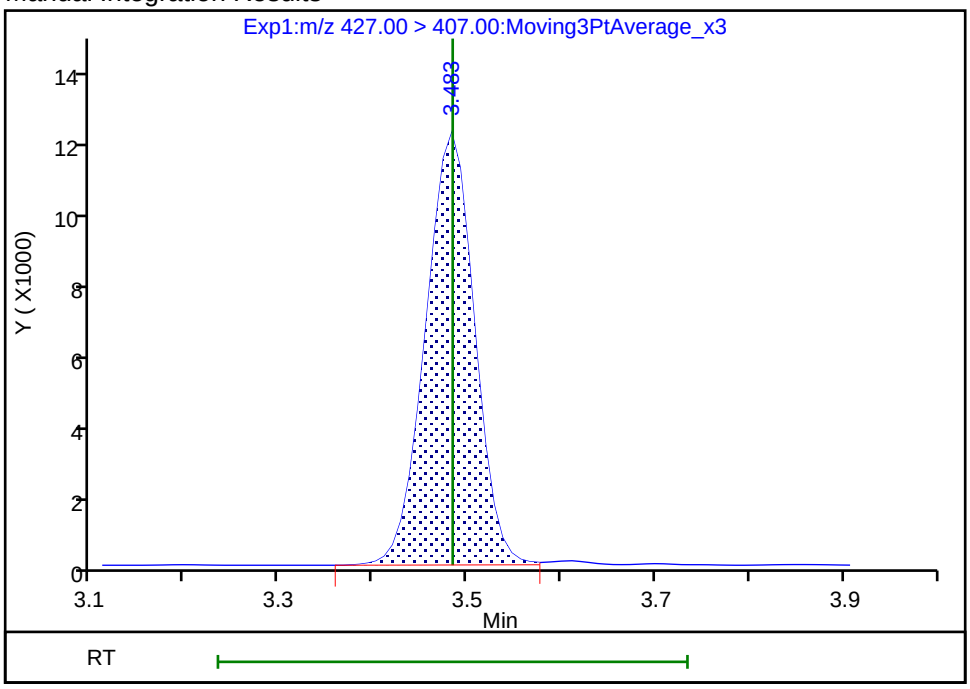
Processing Integration Results

RT: 3.48
Area: 43369
Amount: 0.450504
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 43065
Amount: 0.448336
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:52:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

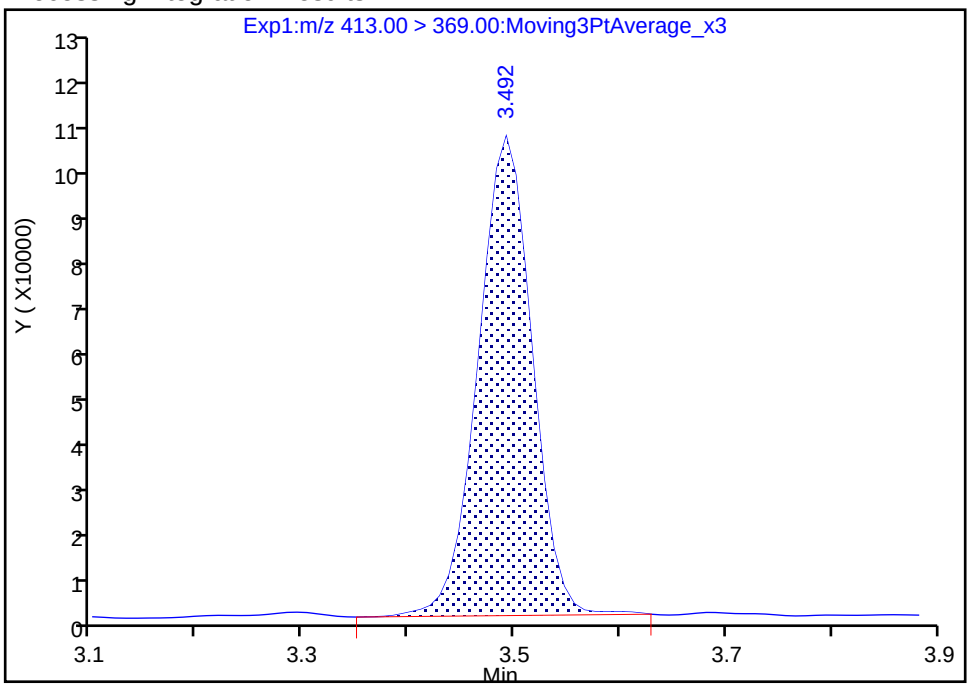
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL010.d				
Injection Date:	22-Dec-2020 13:04:47	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

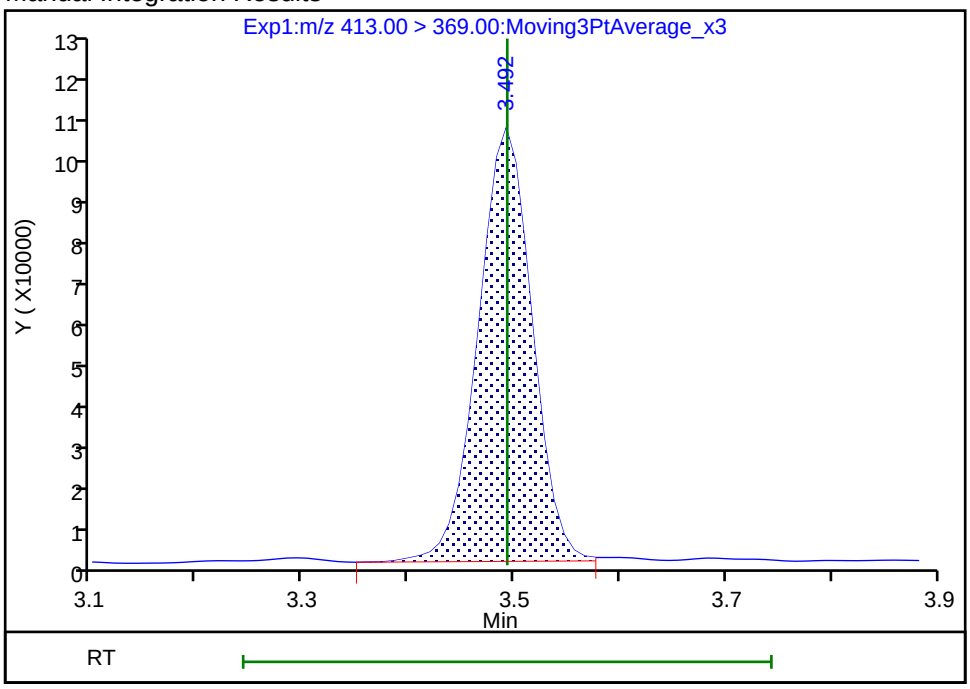
Processing Integration Results

RT: 3.49
Area: 368121
Amount: 0.509972
Amount Units: ng/ml



Manual Integration Results

RT: 3.49
Area: 367859
Amount: 0.494714
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:53:04

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

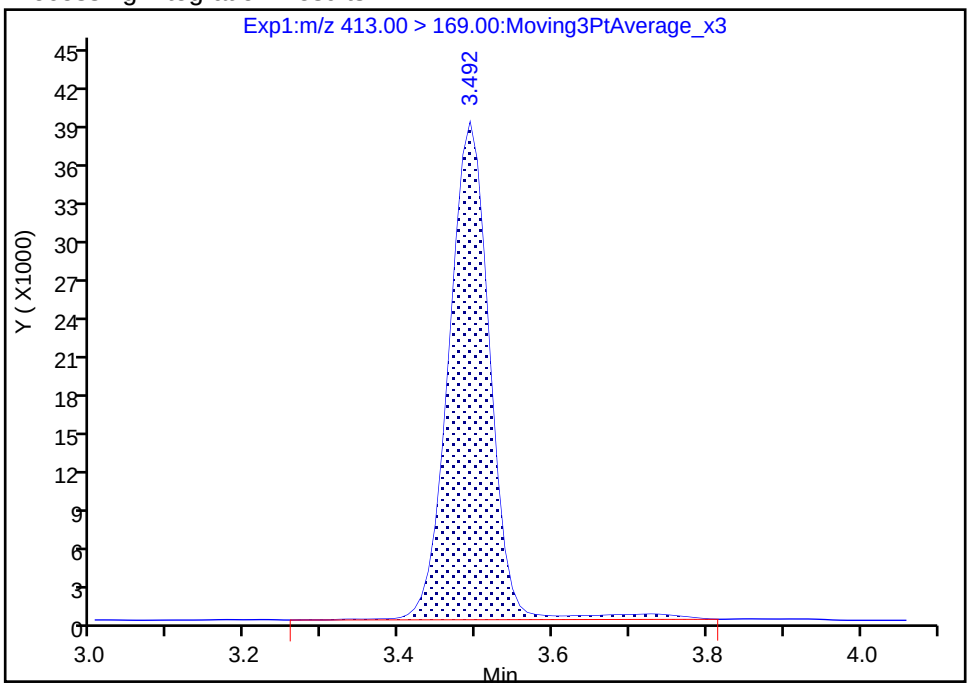
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL010.d				
Injection Date:	22-Dec-2020 13:04:47	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

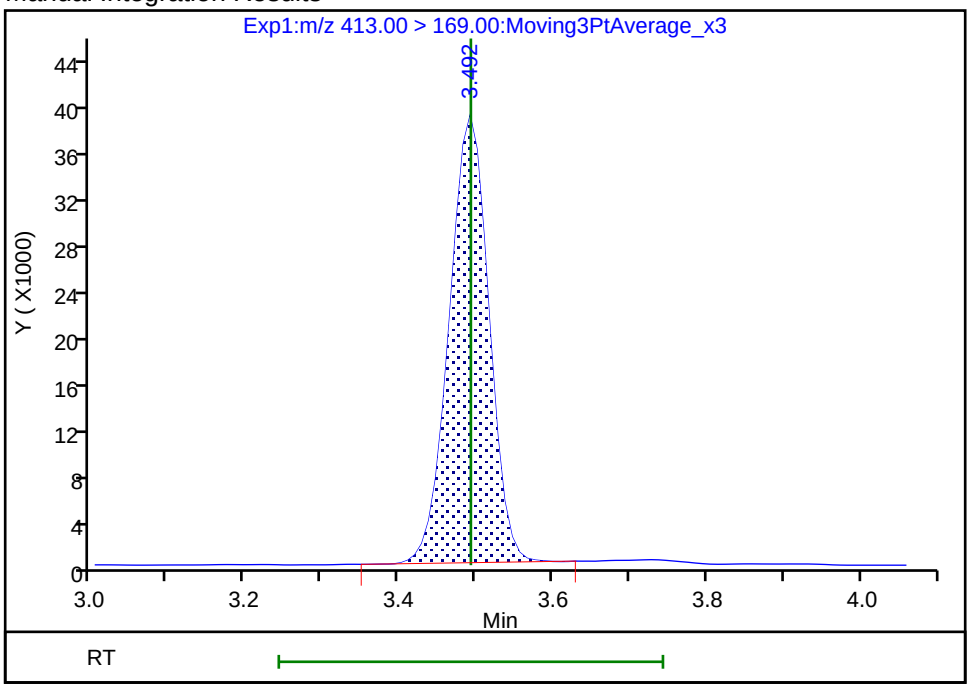
Processing Integration Results

RT: 3.49
Area: 145339
Amount: 0.509972
Amount Units: ng/ml



Manual Integration Results

RT: 3.49
Area: 139299
Amount: 0.494714
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:53:09

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

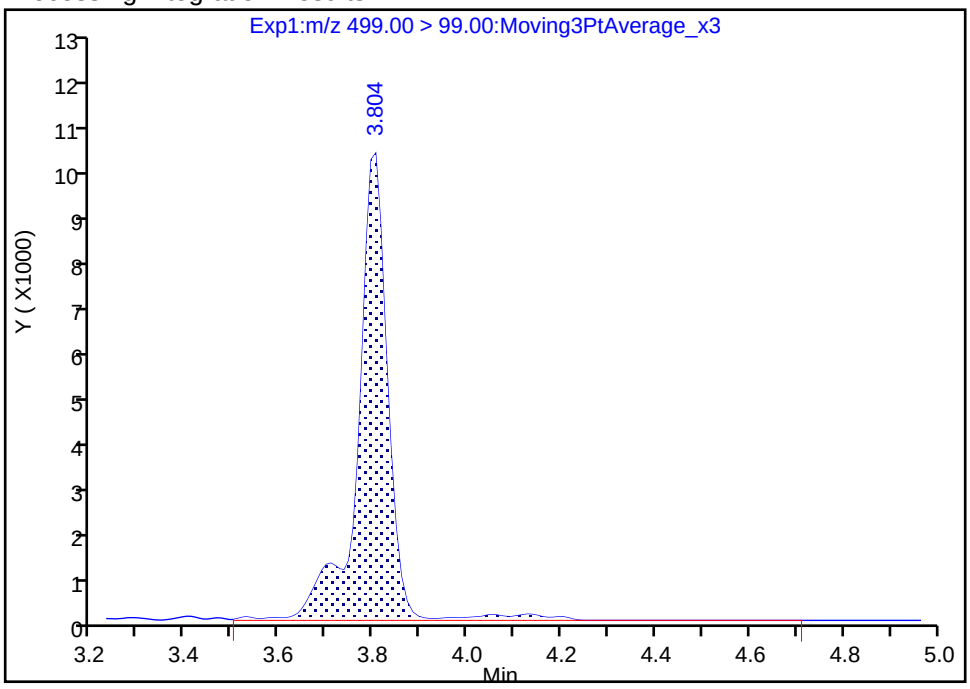
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL010.d				
Injection Date:	22-Dec-2020 13:04:47	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

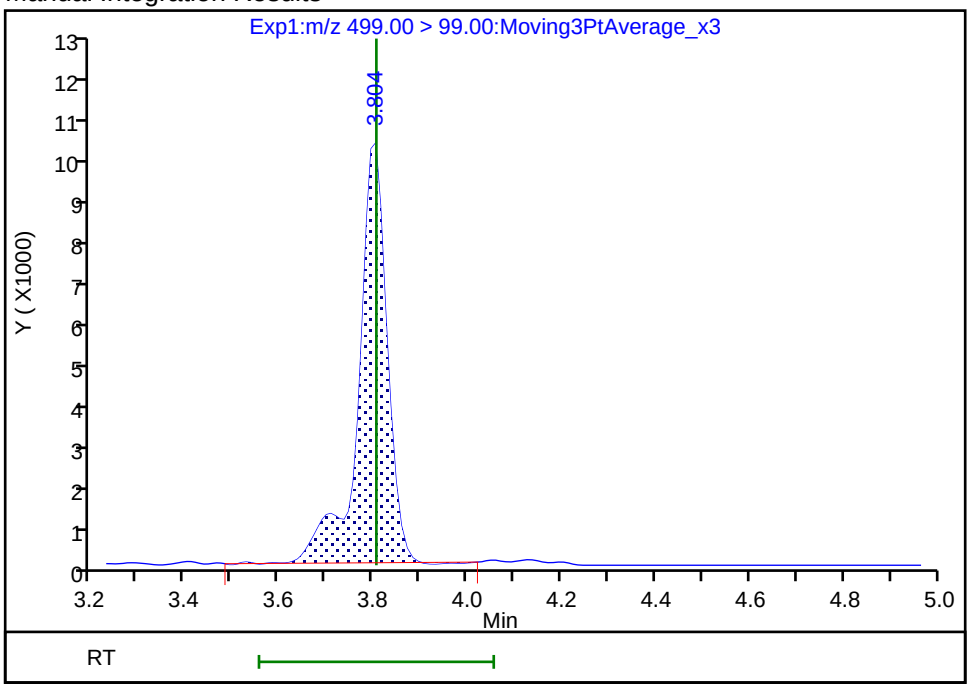
Processing Integration Results

RT: 3.80
Area: 43473
Amount: 0.493773
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 40689
Amount: 0.466267
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:53:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

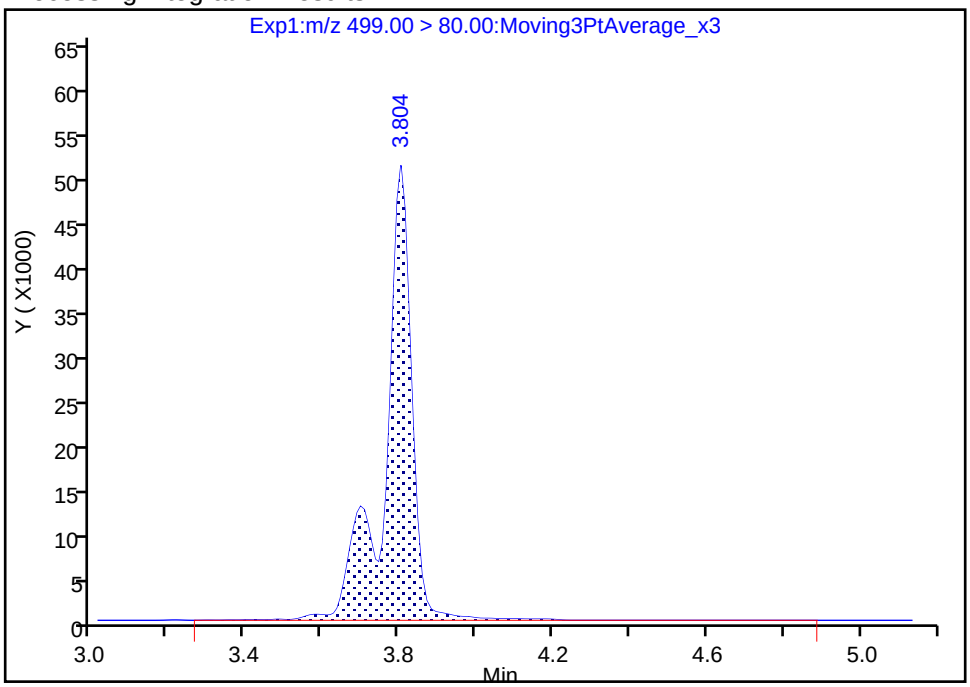
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL010.d				
Injection Date:	22-Dec-2020 13:04:47	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

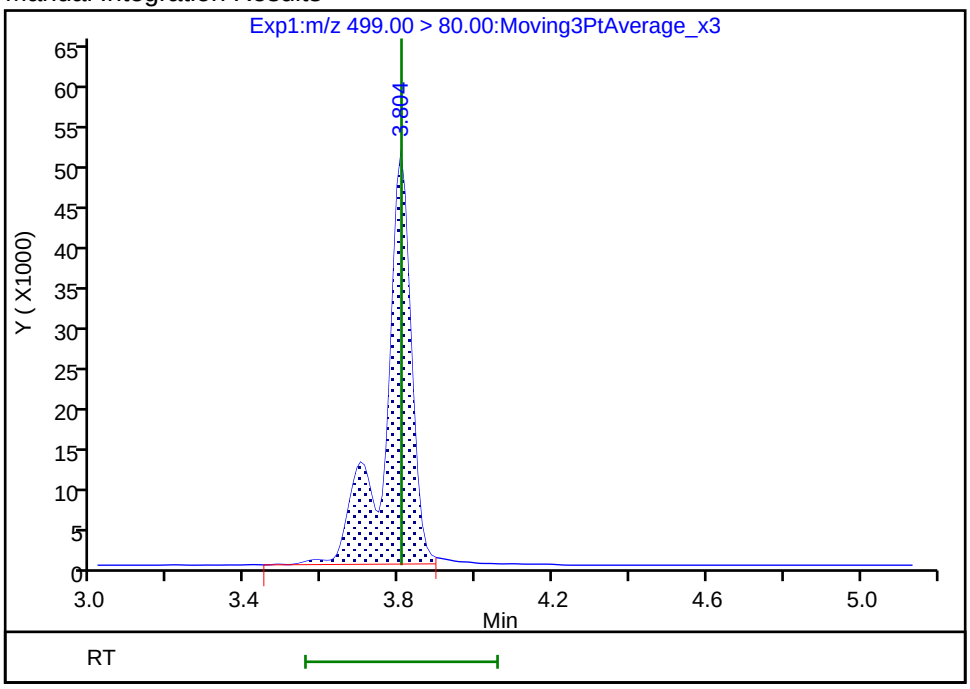
Processing Integration Results

RT: 3.80
Area: 252343
Amount: 0.493773
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 243758
Amount: 0.466267
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:53:27

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

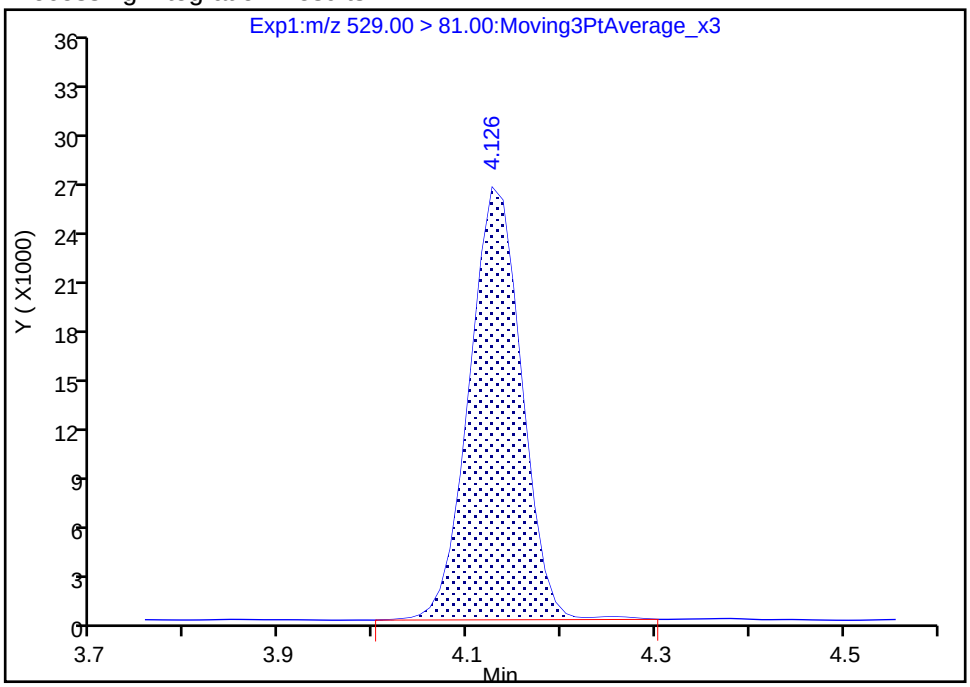
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL010.d				
Injection Date:	22-Dec-2020 13:04:47	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 26 M2-8:2 FTS, CAS: STL02280

Signal: 1

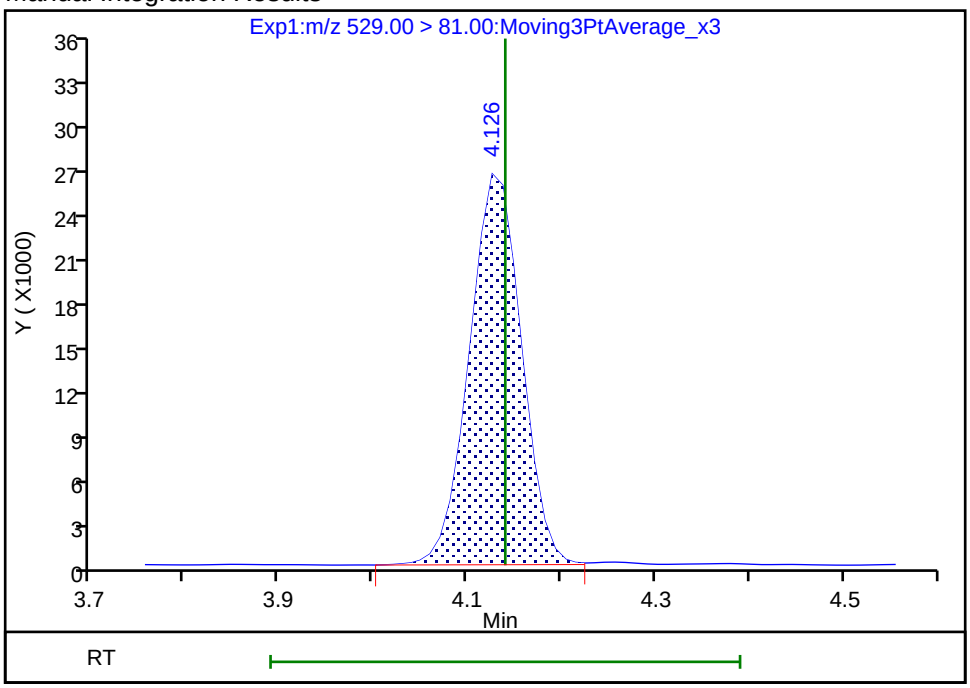
Processing Integration Results

RT: 4.13
Area: 100736
Amount: 1.203135
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 100274
Amount: 1.184999
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:53:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

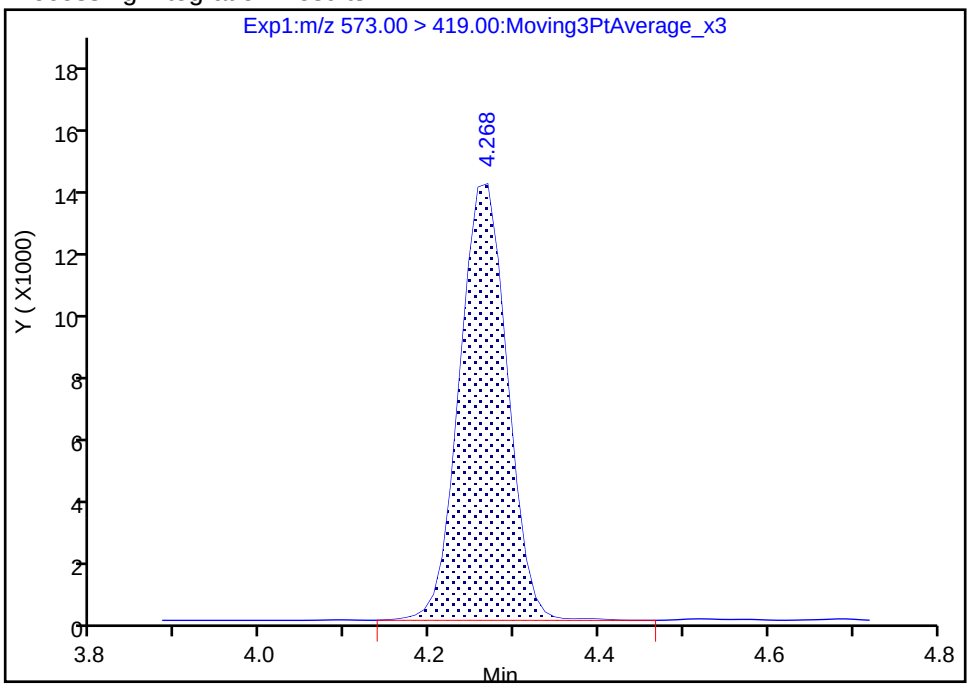
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL010.d				
Injection Date:	22-Dec-2020 13:04:47	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

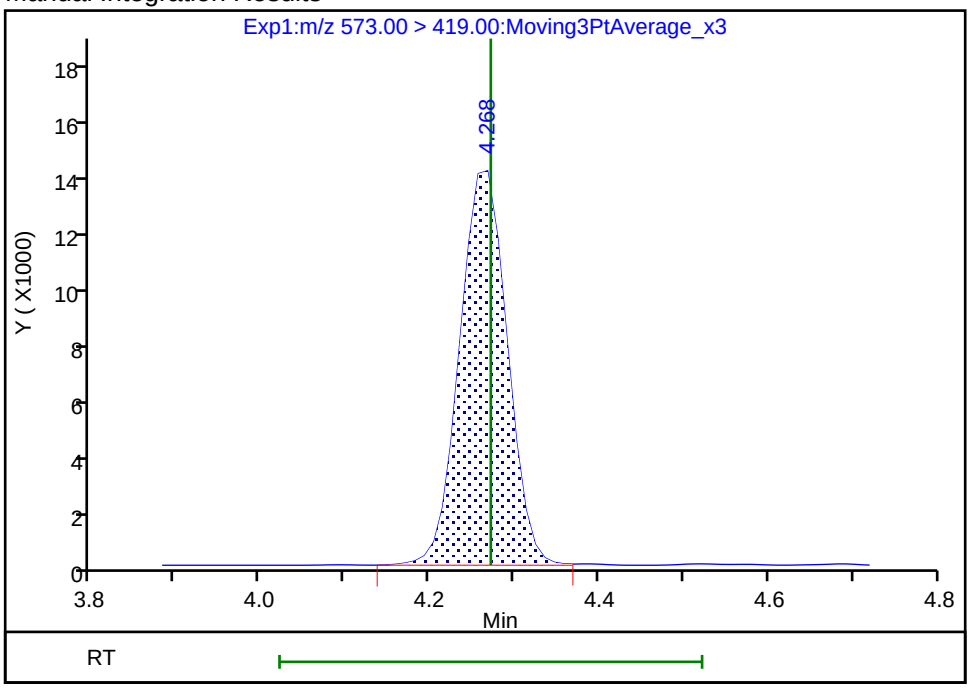
Processing Integration Results

RT: 4.27
Area: 54433
Amount: 1.307455
Amount Units: ng/ml



Manual Integration Results

RT: 4.27
Area: 54321
Amount: 1.298778
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:53:51
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

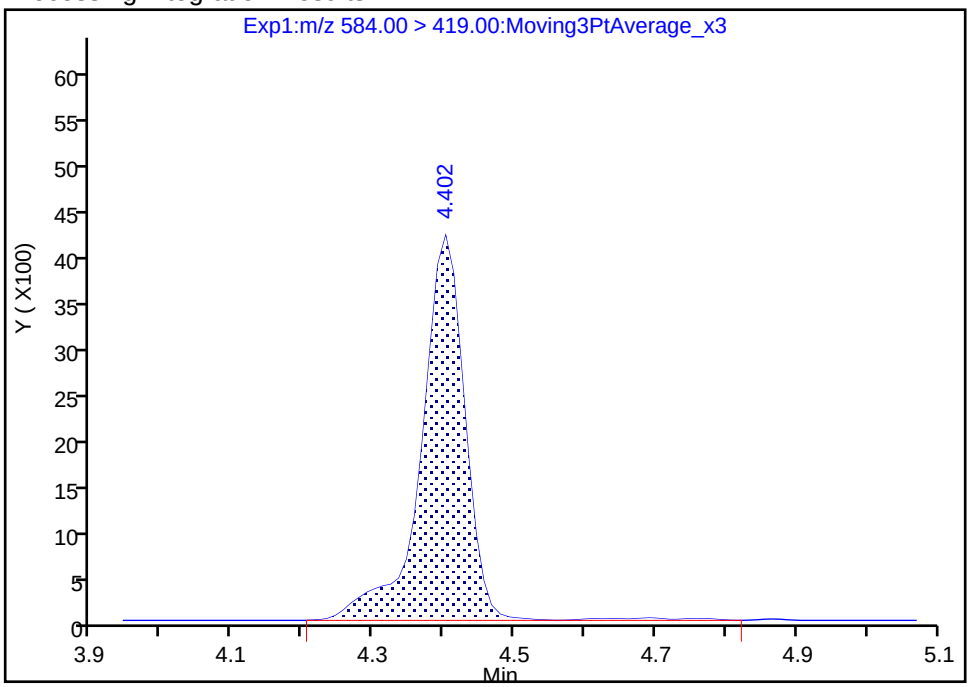
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL010.d				
Injection Date:	22-Dec-2020 13:04:47	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

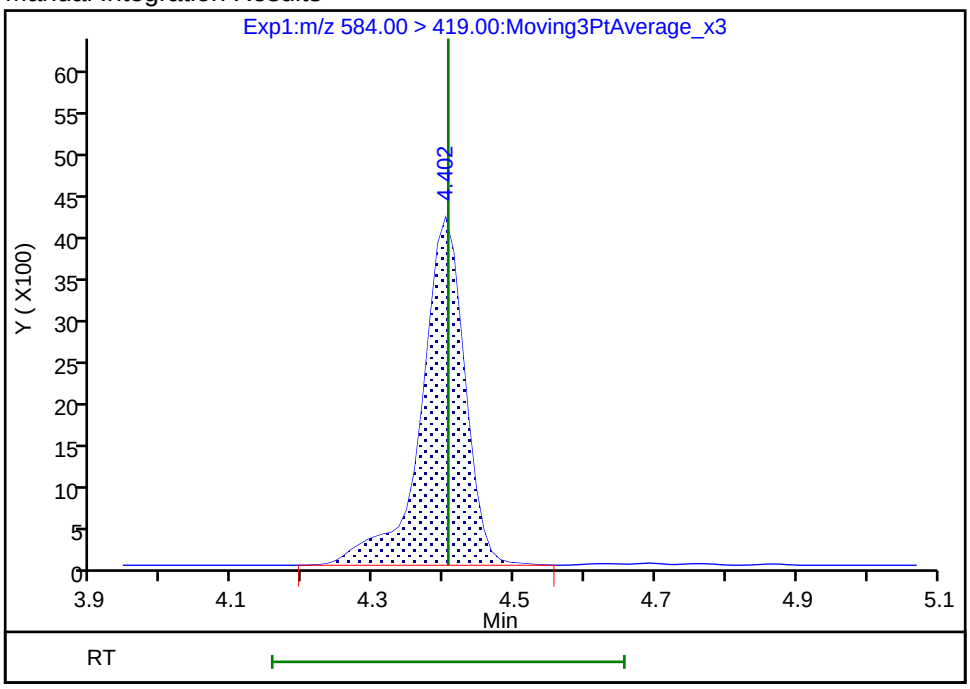
Processing Integration Results

RT: 4.40
Area: 18376
Amount: 0.467982
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 18172
Amount: 0.470712
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:54:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL011.d
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 22-Dec-2020 13:13:03 ALS Bottle#: 5 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: ICIS
Misc. Info.: 200-0044184-011 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812
Sublist: chrom-PFC_LC812*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 22-Dec-2020 14:39:31 Calib Date: 22-Dec-2020 13:29:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1625

First Level Reviewer: deannd Date: 22-Dec-2020 13:57:34
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.091	2.091	0.0	0.599	1185176	1.24		99.2	10280	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.091	2.091	0.0	1.000	881958	0.9283		92.8	114	
D 3 13C5 PFPeA										
267.90 > 223.00	2.414	2.414	0.0	0.691	843580	1.22		97.7	2846	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.414	2.414	0.0	1.000	714864	0.9566		95.7	28.1	
D 47 13C3 PFBS										
301.90 > 80.00	2.427	2.427	0.0	0.695	1062494	1.17		101	398684	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.427	2.427	0.0	1.000	865582	0.8371	Target=2.21	94.7	1429	
298.90 > 99.00	2.427	2.427	0.0	1.000	391368		2.21(1.10-3.31)	94.7	429	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.735	2.735	0.0	1.000	123314	0.9093		97.4	1431	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.735	2.735	0.0	0.783	86339	1.14		97.5	95.9	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.771	2.771	0.0	0.793	895585	1.24		98.9	2915	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.771	2.771	0.0	1.000	765249	0.9777	Target=12.17	97.8	193	
313.00 > 119.00	2.771	2.771	0.0	1.000	59624		12.83(6.09-18.26)	97.8	105	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.771	2.771	0.0	0.885	800668	0.9381	Target=3.32	100	1524	
349.00 > 99.00	2.771	2.771	0.0	0.885	239318		3.35(1.66-4.98)	100	463	
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.881	2.881	0.0	1.000	169678	0.9151		91.5	19.0	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.881	2.881	0.0	0.825	167297	1.31		105	1158	
D 11 18O2 PFHxS										
403.00 > 84.00	3.133	3.133	0.0	0.897	769056	1.14		96.1	2513	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.133	3.133	0.0	1.000	671571	0.8762	Target=4.08	96.3	623	
399.00 > 99.00	3.133	3.133	0.0	1.000	161822		4.15(2.04-6.11)	96.3	175	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.133	3.133	0.0	0.897	849594	1.23		98.0	2733	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.133	3.133	0.0	1.000	723792	0.9750	Target=3.70	97.5	176	
363.00 > 169.00	3.133	3.133	0.0	1.000	197811		3.66(1.85-5.56)	97.5	484	
77 DONA										
377.00 > 251.00	3.176	3.176	0.0	0.835	1397912	0.9000	Target=2.47	95.5	1291	
377.00 > 85.00	3.176	3.176	0.0	0.835	574726		2.43(1.23-3.70)	95.5	519	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.484	3.484	0.0	0.916	572696	0.9144	Target=5.85	96.1	2707	
449.00 > 99.00	3.484	3.484	0.0	0.916	96214		5.95(2.93-8.78)	96.1	548	
D 12 M2-6:2 FTS										M
429.00 > 81.00	3.484	3.484	0.0	0.997	96952	1.15		96.6	475	M
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.484	3.484	0.0	1.000	91369	1.01		106	727	
D 14 13C4 PFOA										
417.00 > 372.00	3.493	3.493	0.0	1.000	869201	1.23		98.7	5713	
* 62 13C2 PFOA										
415.00 > 370.00	3.493	3.493	0.0		889632	1.25			2744	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.493	3.493	0.0	1.000	740338	0.9822	Target=2.58	98.2	177	
413.00 > 169.00	3.493	3.493	0.0	1.000	286978		2.58(1.29-3.87)	98.2	628	
D 18 13C4 PFOS										
503.00 > 80.00	3.806	3.806	0.0	1.089	554310	1.19		99.8	1960	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.806	3.806	0.0	1.000	463174	0.8682	Target=5.56	93.6	522	M
499.00 > 99.00	3.806	3.806	0.0	1.000	82037		5.65(2.78-8.34)	93.6	317	M
D 19 13C5 PFNA										
468.00 > 423.00	3.826	3.826	0.0	1.095	760016	1.22		97.9	3695	
20 Perfluorononanoic acid										
463.00 > 419.00	3.826	3.826	0.0	1.000	649860	0.9656	Target=6.87	96.6	110	
463.00 > 169.00	3.826	3.826	0.0	1.000	87334		7.44(3.43-10.30)	96.6	640	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.967	3.967	0.0	1.042	545155	0.9159		98.3	2096	
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.095	4.095	0.0	1.076	341392	0.8577	Target=2.78	89.3	1751	
549.00 > 99.00	4.095	4.095	0.0	1.076	134385		2.54(1.39-4.17)	89.3	357	M
D 23 13C2 PFDA										
515.00 > 470.00	4.129	4.129	0.0	1.182	722168	1.22		97.3	7907	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.129	4.129	0.0	1.000	604674	1.02	Target=9.03	102	401	
513.00 > 169.00	4.129	4.129	0.0	1.000	65108		9.29(4.51-13.54)	102	408	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.140	4.140	0.0	1.000	51395	0.8998		93.9	944	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.140	4.140	0.0	1.185	100569	1.15		96.3	455	
D 21 13C8 FOSA										
506.00 > 78.00	4.207	4.207	0.0	1.204	1069567	1.22		98.0	1916	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.207	4.207	0.0	1.000	853072	0.99		99.5	2290	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.272	4.272	0.0	1.223	52781	1.23		98.0	124	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.272	4.272	0.0	1.000	38043	1.02		102	275	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.362	4.362	0.0	1.146	302428	0.9531	Target=2.76	98.9	1641	
599.00 > 99.00	4.362	4.362	0.0	1.146	108196		2.80(1.38-4.14)	98.9	554	
D 30 13C2 PFUnA										
565.00 > 520.00	4.384	4.384	0.0	1.255	595523	1.22		97.6	2499	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.395	4.395	0.0	1.003	493796	1.02	Target=8.02	102	177	
563.00 > 169.00	4.395	4.395	0.0	1.003	60802		8.12(4.01-12.03)	102	1209	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.395	4.395	0.0	1.258	50481	1.21		97.0	447	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.406	4.406	0.0	1.003	35802	0.9577		95.8	637	M
66 11-Chloroeicosafluoro-3-oxaundec										M
631.00 > 451.00	4.485	4.485	0.0	1.179	584047	0.9457		100	1618	M
D 36 13C2 PFDoA										
615.00 > 570.00	4.626	4.626	0.0	1.324	641373	1.25		99.6	1825	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.626	4.626	0.0	1.000	546074	0.9676	Target=6.85	96.8	153	
613.00 > 169.00	4.616	4.626	-0.010	0.998	79070		6.91(3.42-10.27)	96.8	1104	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.637	4.637	0.0	1.120	28609	0.9729		101	523	
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.797	4.797	0.0	1.260	106502	0.9123	Target=0.53	94.2	287	M
699.00 > 99.00	4.797	4.797	0.0	1.260	208152		0.51(0.26-0.79)	94.2	825	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.839	4.839	0.0	1.046	448445	0.9792	Target=4.48	97.9	173	
663.00 > 169.00	4.839	4.839	0.0	1.046	102042		4.39(2.24-6.72)	97.9	959	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.027	5.027	0.0	1.439	450404	1.18		94.6	1593	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.027	5.027	0.0	1.000	71818	1.07	Target=0.99	107	1310	
713.00 > 219.00	5.018	5.027	-0.009	0.998	67692		1.06(0.50-1.49)	107	2370	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.374	5.374	0.0	1.539	496455	1.22		97.6	1772	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.374	5.374	0.0	1.000	370408	0.9863	Target=4.02	98.6	105	
813.00 > 169.00	5.374	5.374	0.0	1.000	96475		3.84(2.01-6.02)	98.6	1401	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.722	5.722	0.0	1.065	355381	0.99	Target=3.88	99.4	241	
913.00 > 169.00	5.722	5.722	0.0	1.065	90588		3.92(1.94-5.82)	99.4	794	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC4_00015 Amount Added: 100.00 Units: uL

Report Date: 22-Dec-2020 14:39:31 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL011.d

Injection Date: 22-Dec-2020 13:13:03 Instrument ID: LC812

Lims ID: ICIS

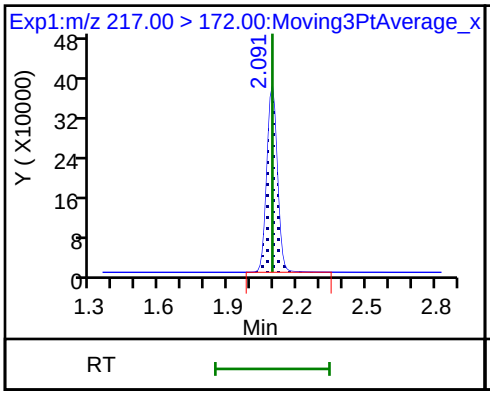
Client ID:

Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 11

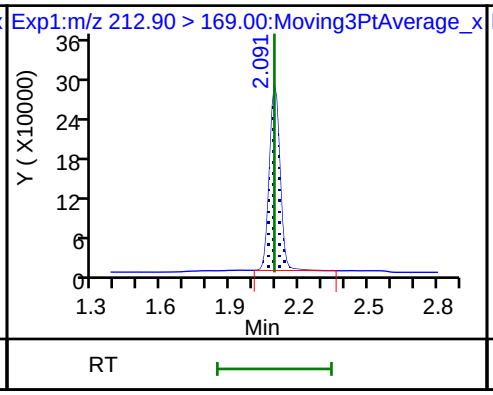
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

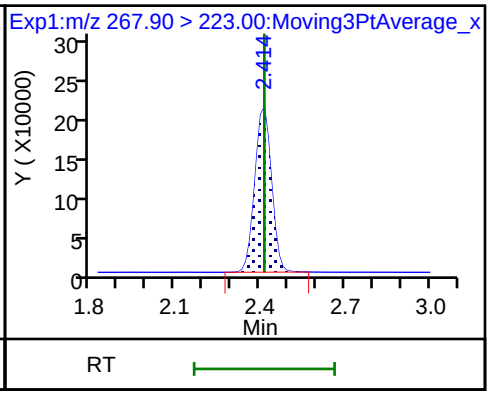
D 1 13C4 PFBA



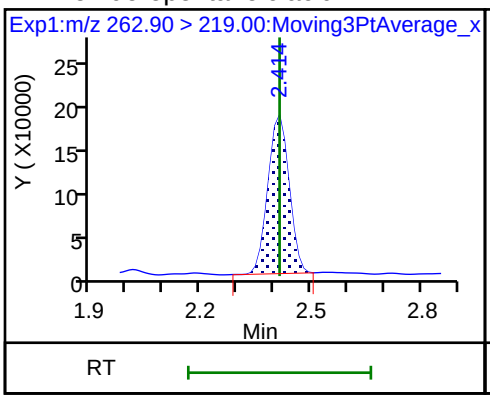
2 Perfluorobutanoic acid



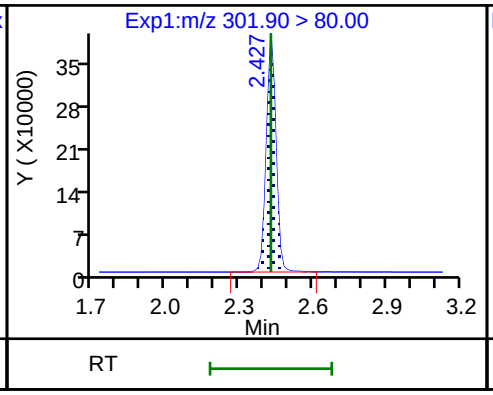
D 3 13C5 PFPeA



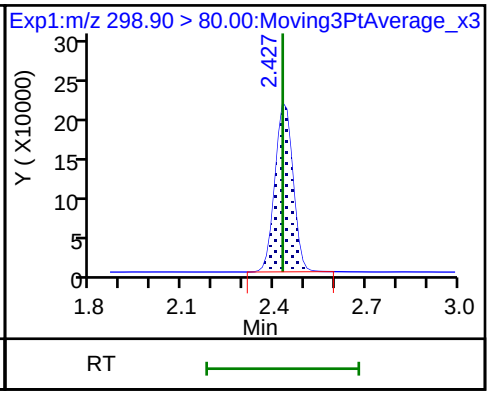
4 Perfluoropentanoic acid



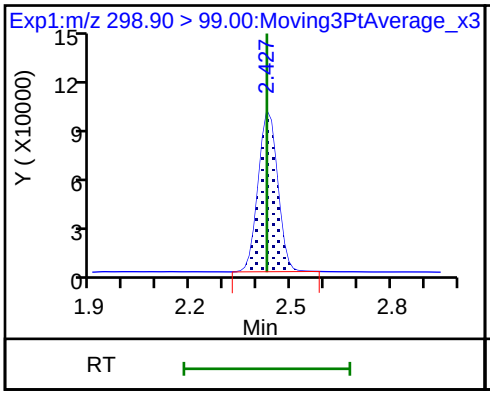
D 47 13C3 PFBS



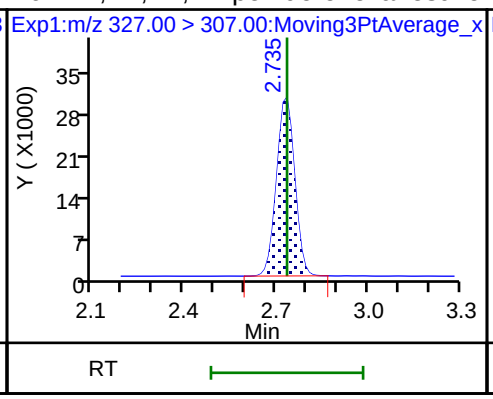
5 Perfluorobutanesulfonic acid



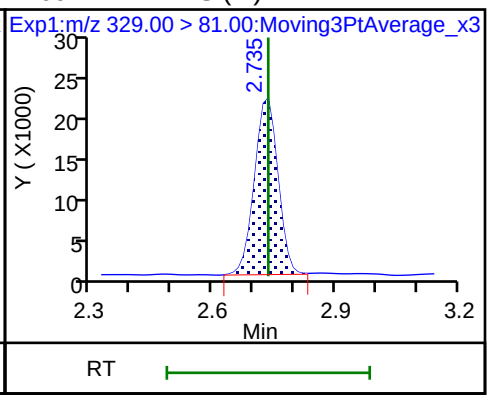
5 Perfluorobutanesulfonic acid



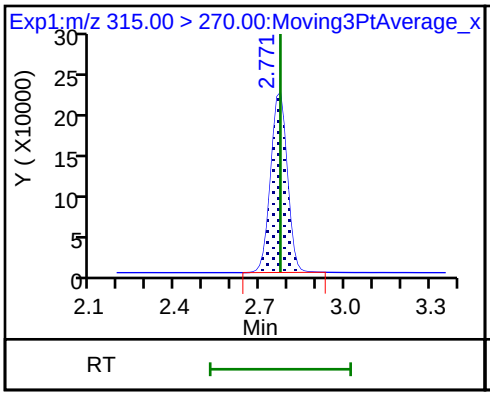
61 1H,1H,2H,2H-perfluorohexanesulfo



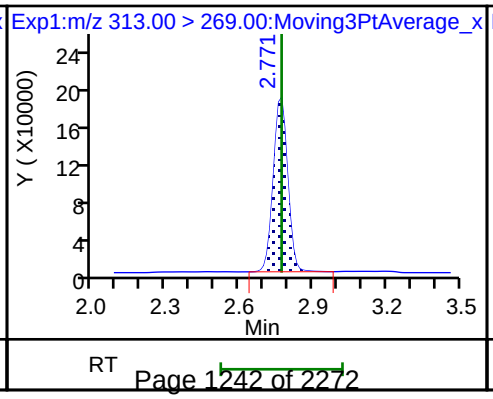
D 60 M2-4:2 FTS (M)



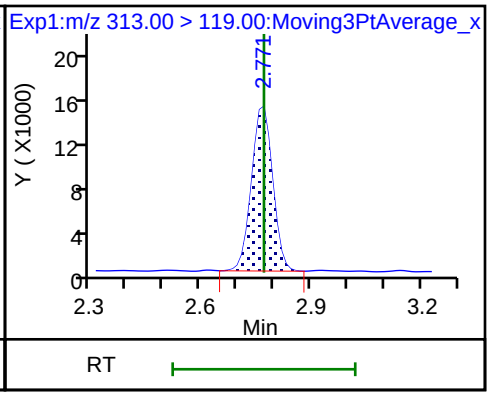
D 7 13C2 PFHxA



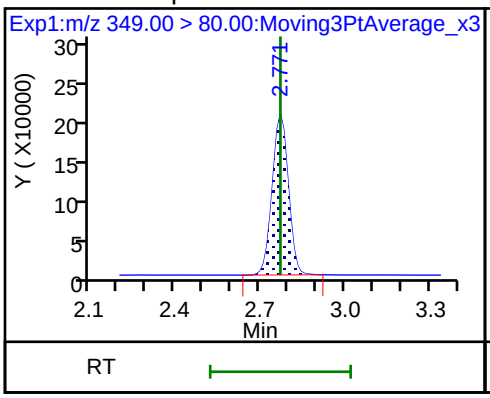
6 Perfluorohexanoic acid



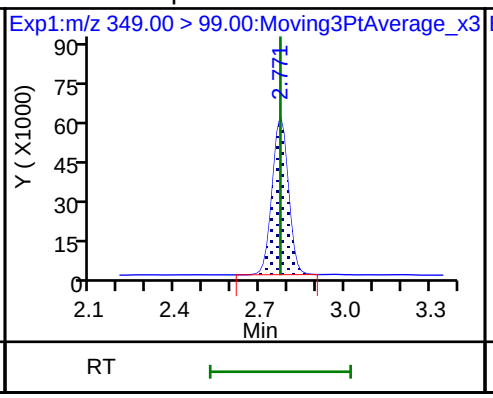
6 Perfluorohexanoic acid



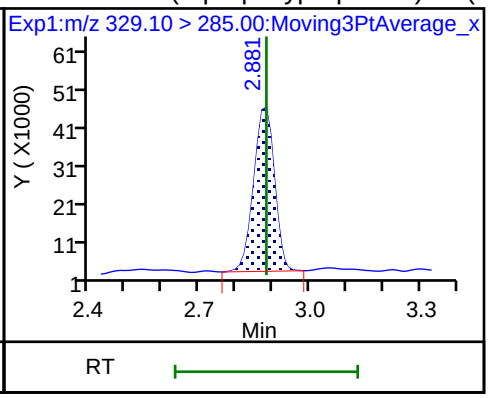
70 Perfluoropentanesulfonic acid



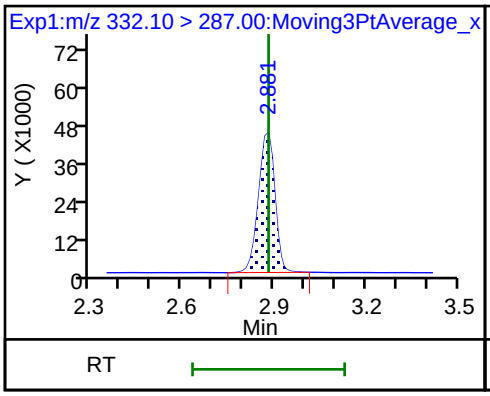
70 Perfluoropentanesulfonic acid



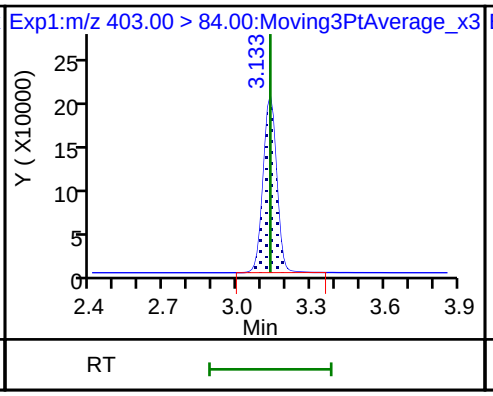
67 Perfluoro(2-propoxypropanoic) ac (M)



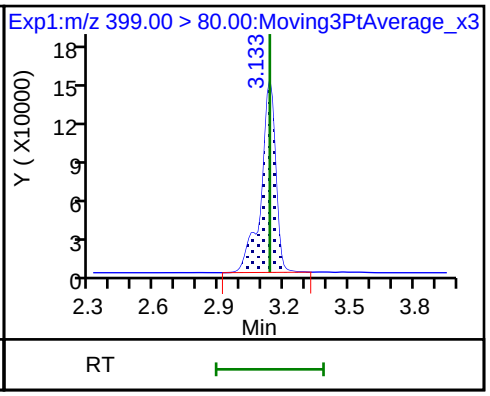
D 64 13C3 HFPO-DA



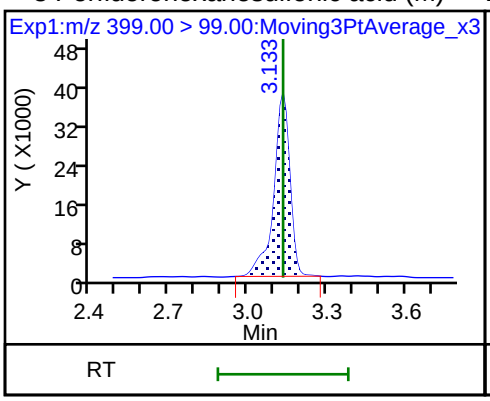
D 11 18O2 PFHxS



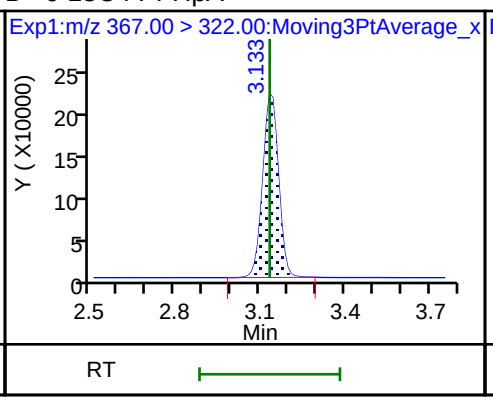
8 Perfluorohexanesulfonic acid



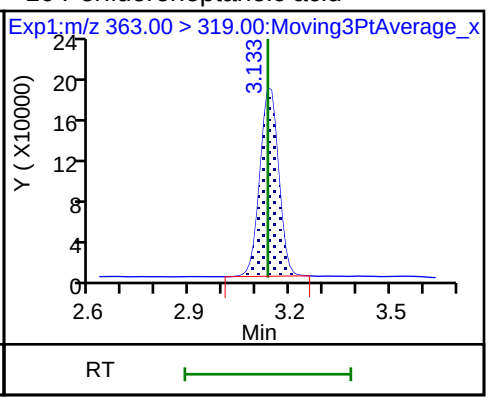
8 Perfluorohexanesulfonic acid (M)



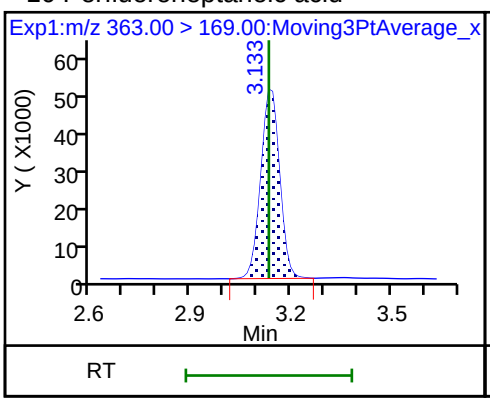
D 9 13C4 PFHpA



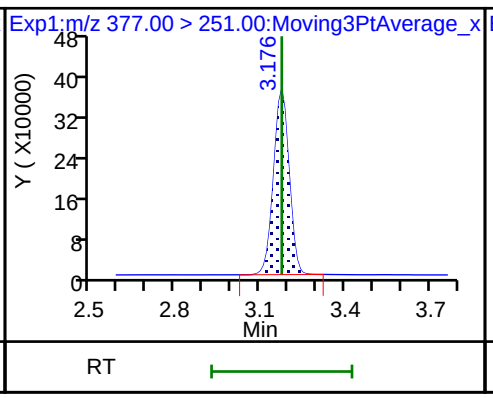
10 Perfluoroheptanoic acid



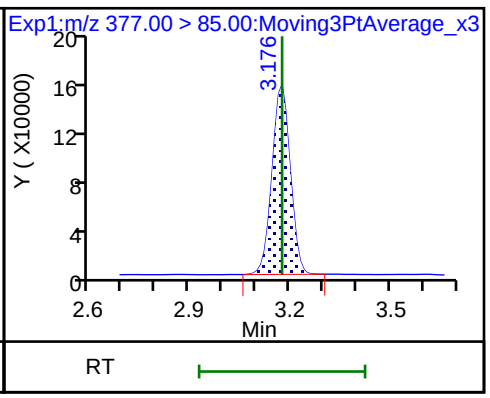
10 Perfluoroheptanoic acid



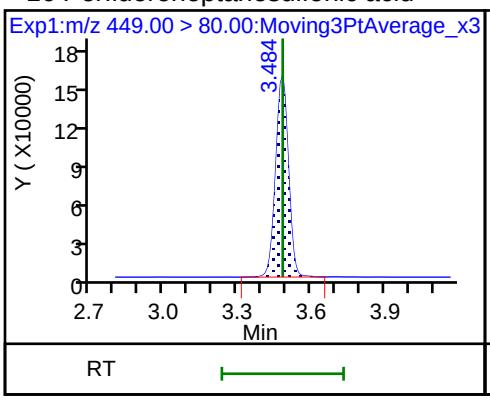
77 DONA



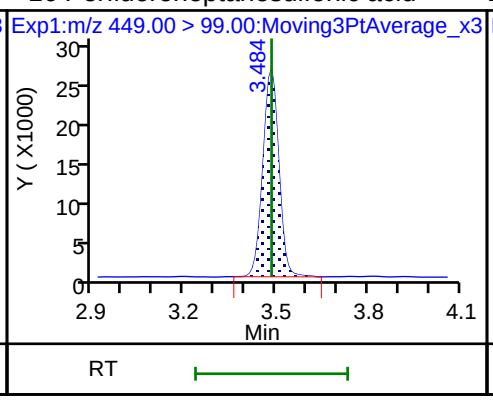
77 DONA



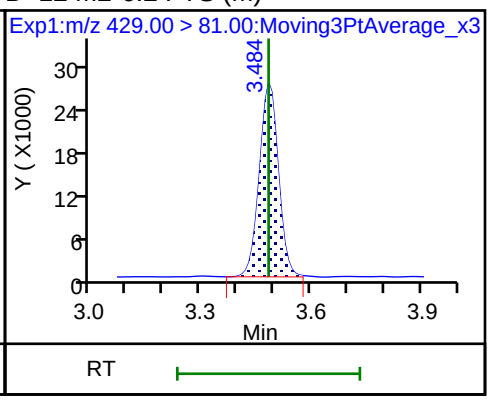
16 Perfluoroheptanesulfonic acid



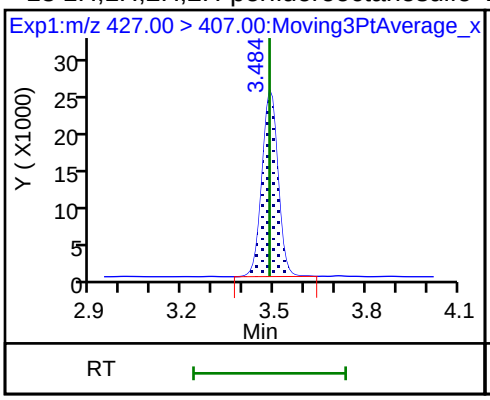
16 Perfluoroheptanesulfonic acid



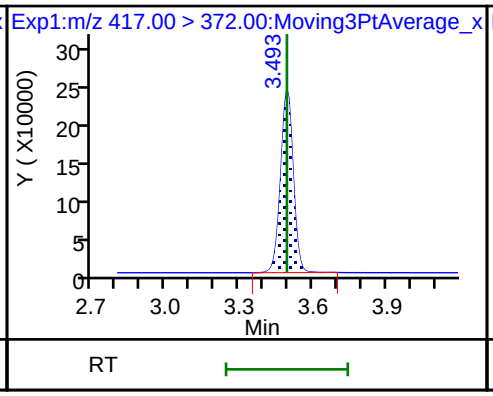
D 12 M2-6:2 FTS (M)



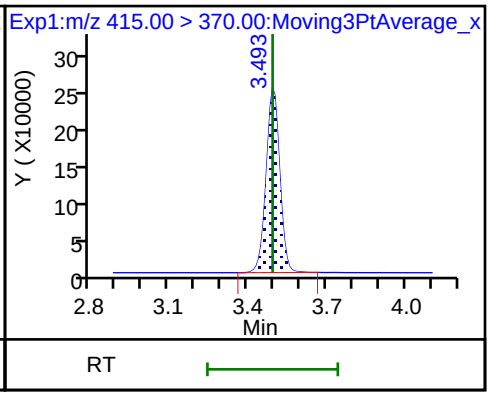
13 1H,1H,2H,2H-perfluorooctanesulfo



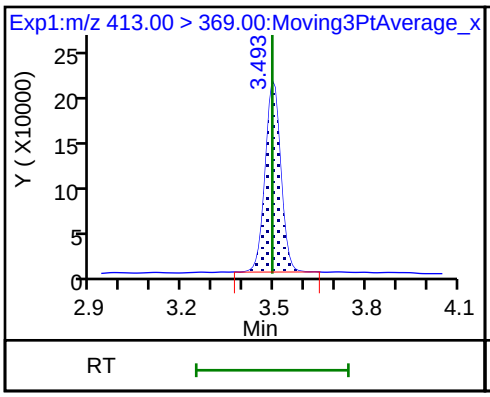
D 14 13C4 PFOA



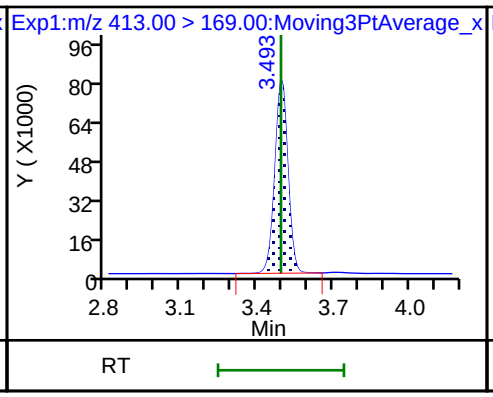
* 62 13C2 PFOA



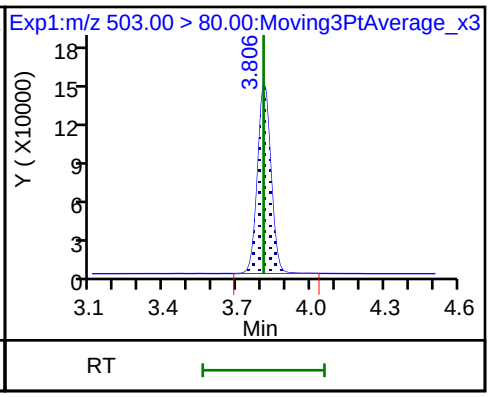
15 Perfluorooctanoic acid



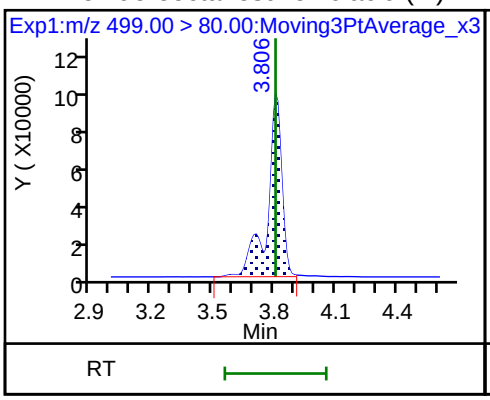
15 Perfluorooctanoic acid



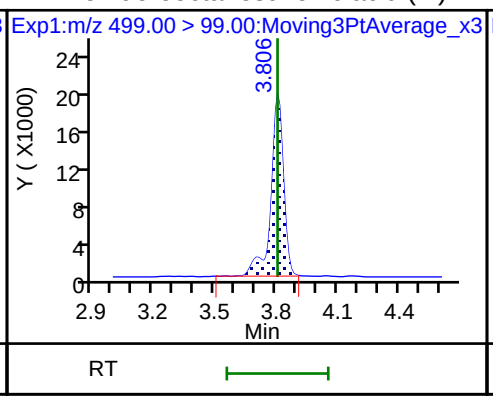
D 18 13C4 PFOS



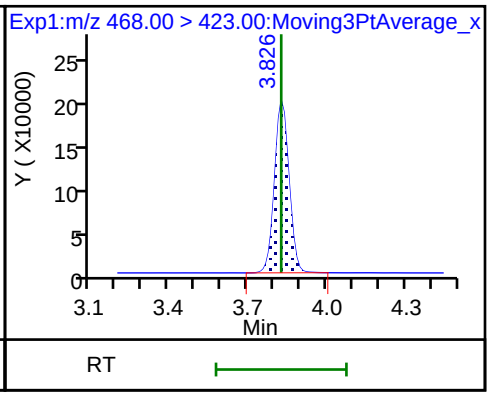
17 Perfluorooctanesulfonic acid (M)



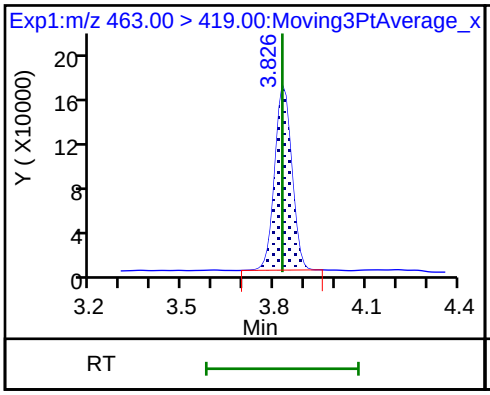
17 Perfluorooctanesulfonic acid (M)



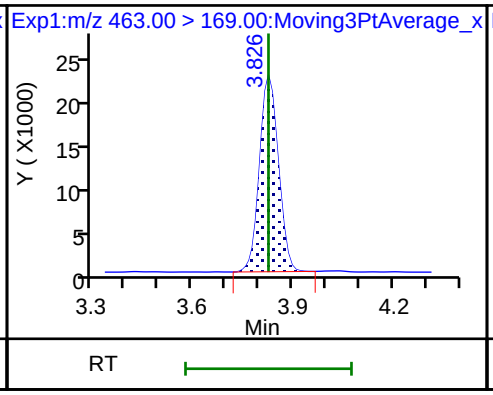
D 19 13C5 PFNA



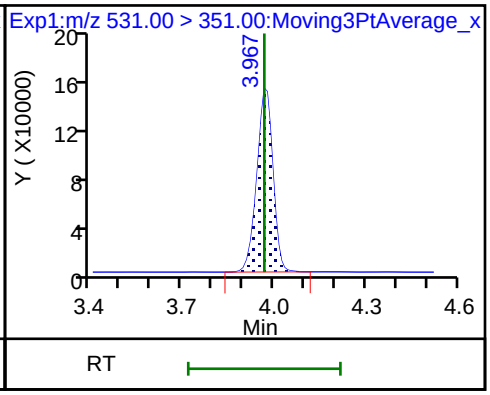
20 Perfluorononanoic acid



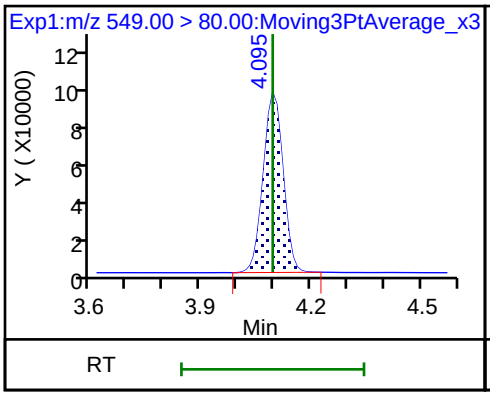
20 Perfluorononanoic acid



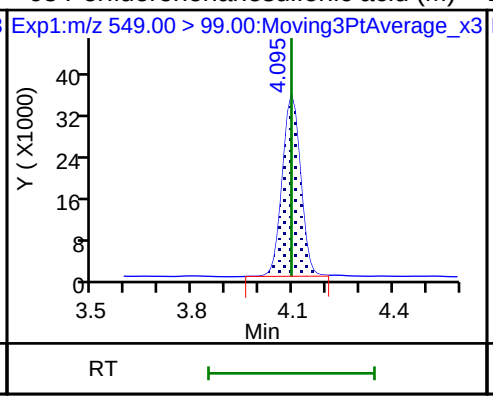
69 9-Chlorohexadecafluoro-3-oxanona



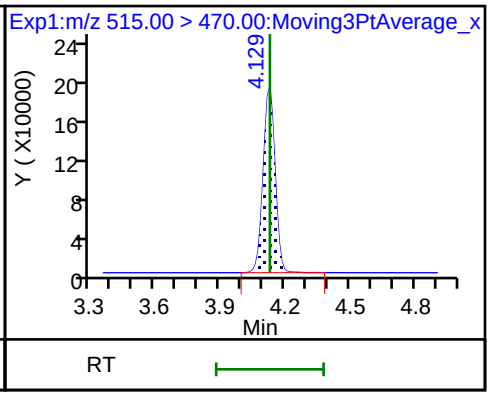
68 Perfluorononanesulfonic acid



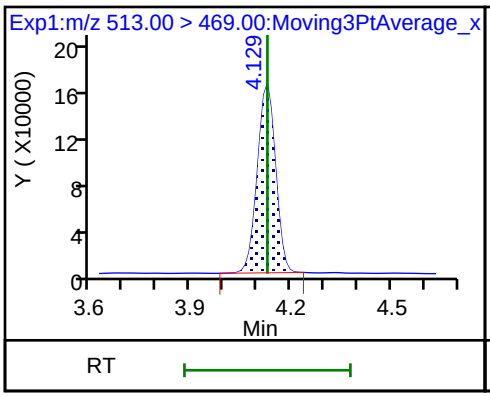
68 Perfluorononanesulfonic acid (M)



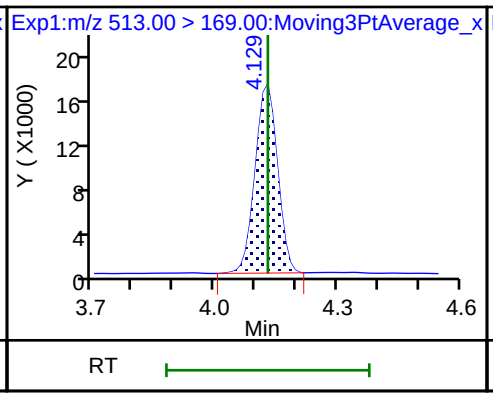
D 23 13C2 PFDA



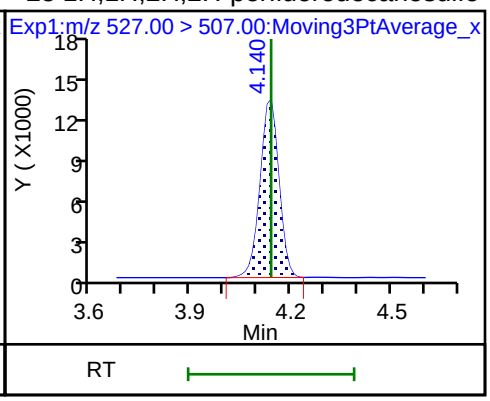
24 Perfluorodecanoic acid



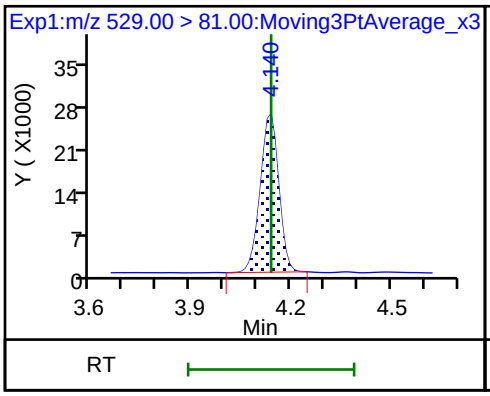
24 Perfluorodecanoic acid



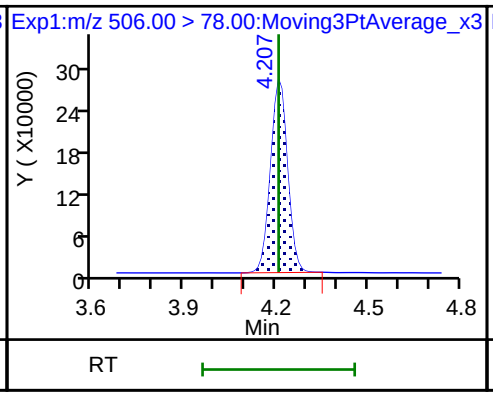
25 1H,1H,2H,2H-perfluorodecanesulfo



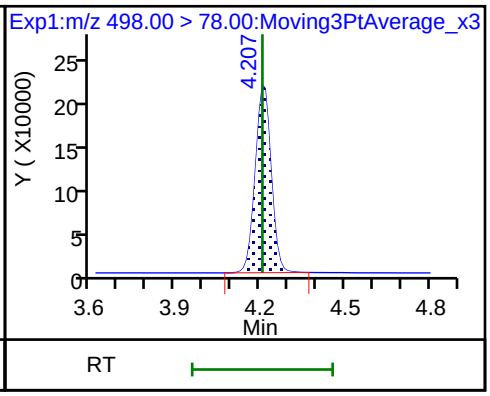
D 26 M2-8:2 FTS



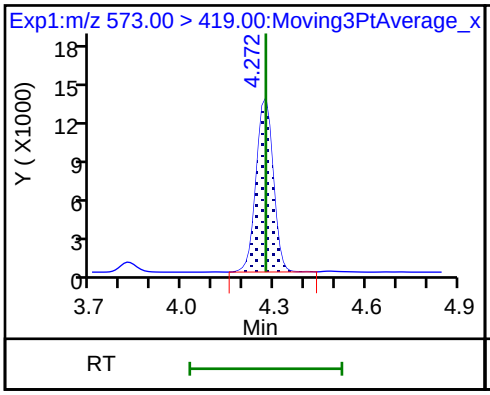
D 21 13C8 FOSA



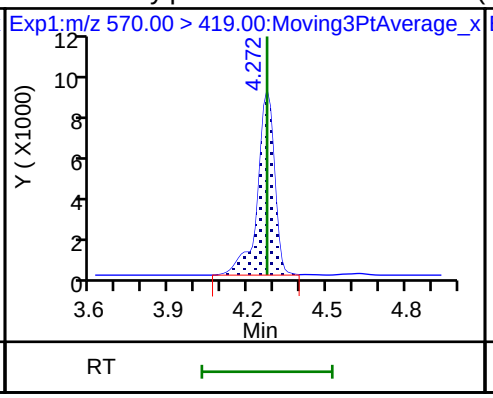
22 Perfluorooctanesulfonamide



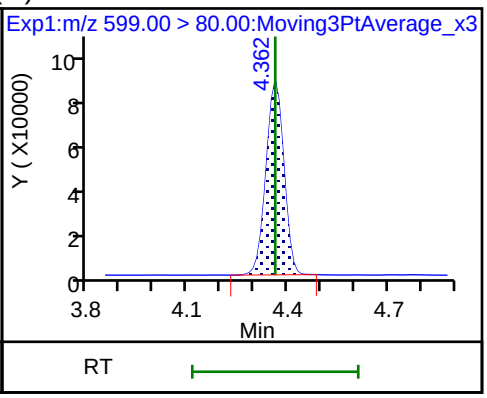
D 27 d3-NMeFOSAA



28 N-methylperfluorooctanesulfonami (M)



29 Perfluorodecanesulfonic acid



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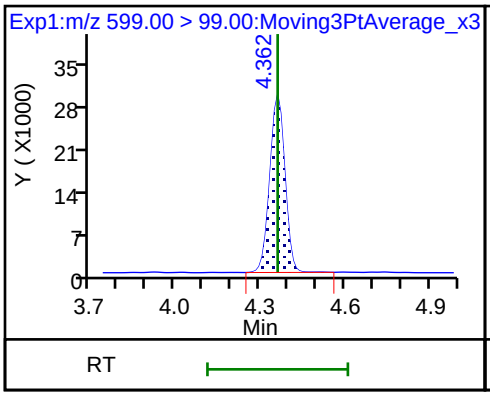
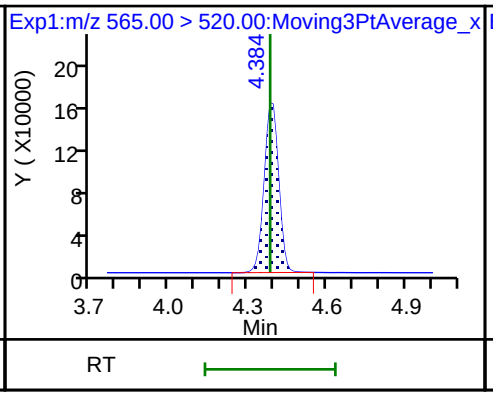
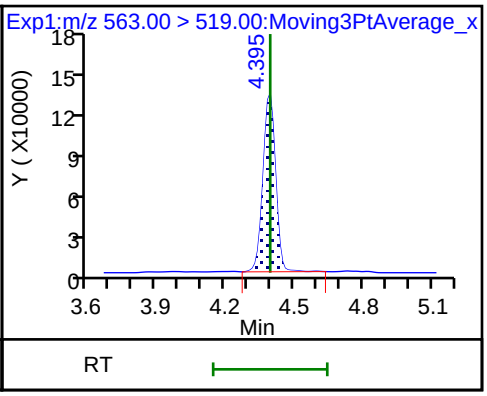


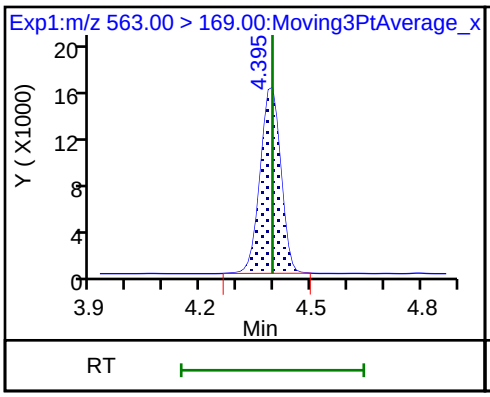
D 30 13C2 PFUnA



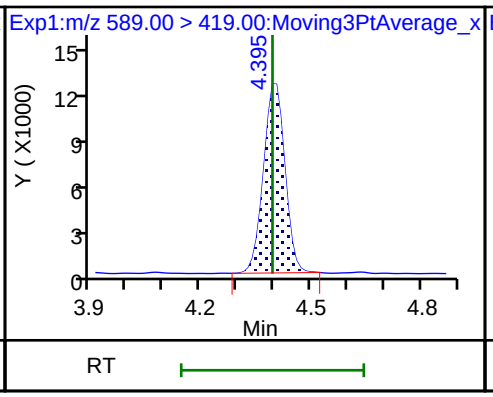
31 Perfluoroundecanoic acid



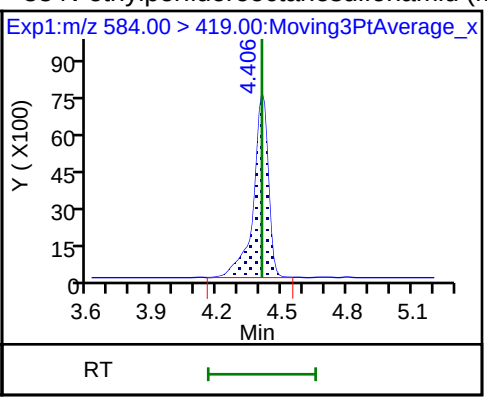
31 Perfluoroundecanoic acid



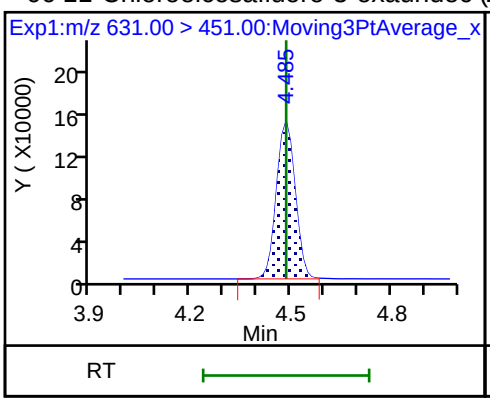
D 32 d5-NEtFOSAA



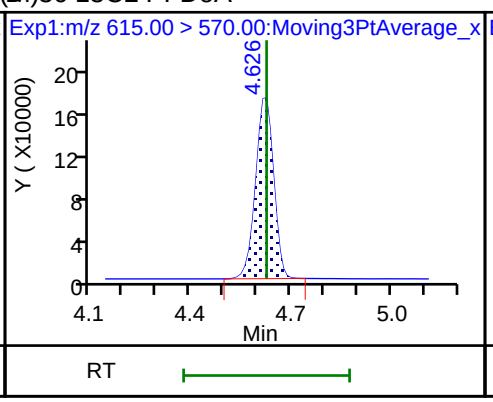
33 N-ethylperfluorooctanesulfonamid (M)



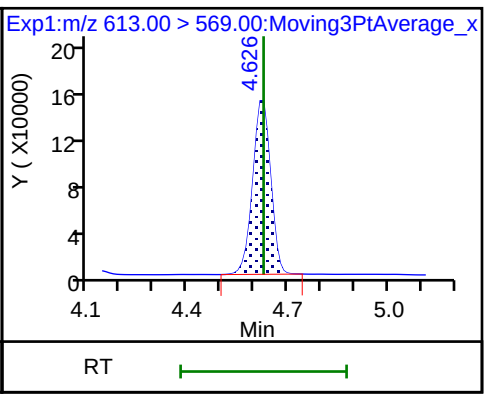
66 11-Chloroeicosafluoro-3-oxaundec (M)



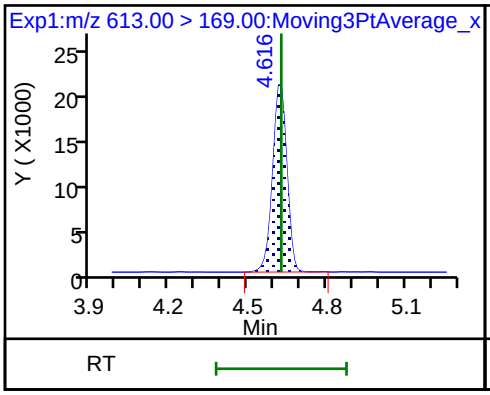
D 36 13C2 PFDoA



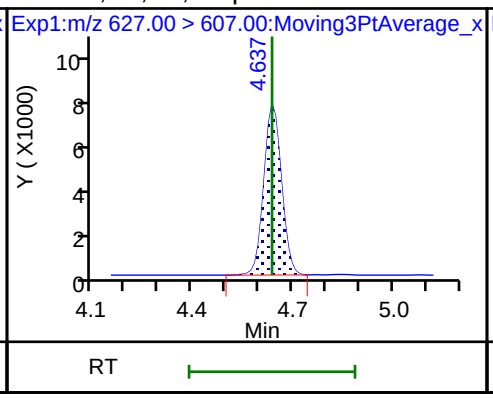
37 Perfluorododecanoic acid



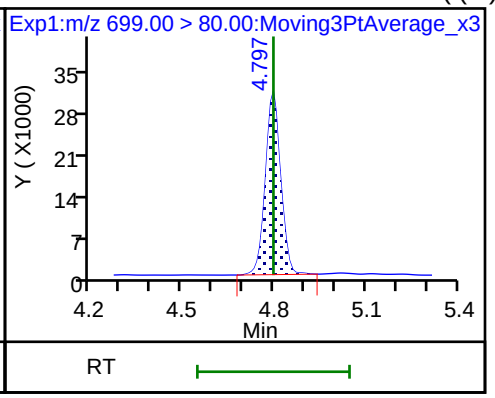
37 Perfluorododecanoic acid



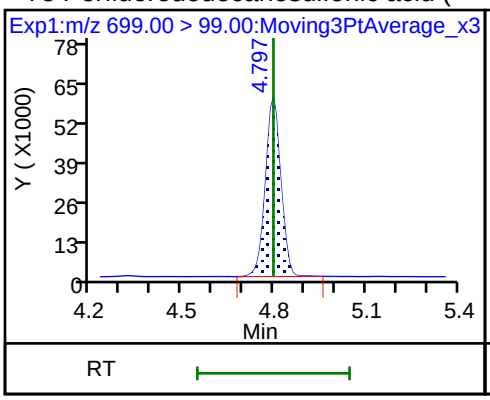
74 1H,1H,2H,2H-perfluorododecanesul



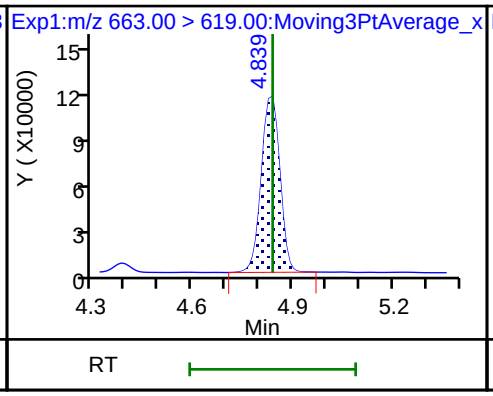
75 Perfluorododecanesulfonic acid ((M)



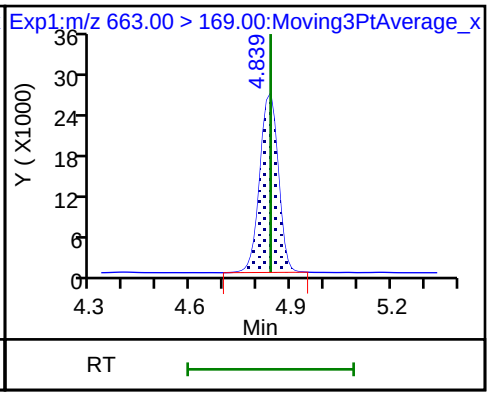
75 Perfluorododecanesulfonic acid (



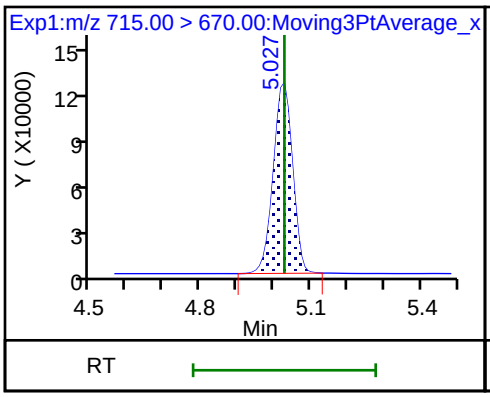
41 Perfluorotridecanoic acid



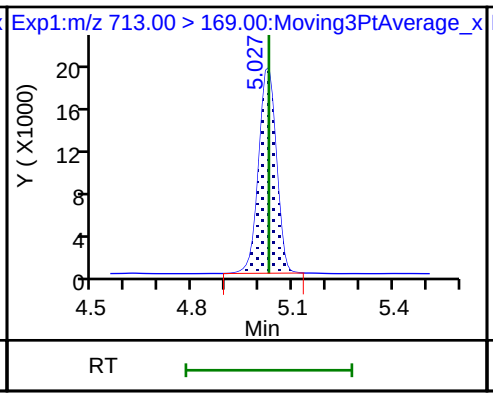
41 Perfluorotridecanoic acid



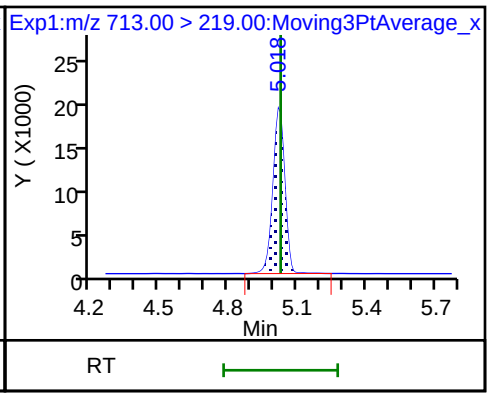
D 43 13C2 PFTeDA



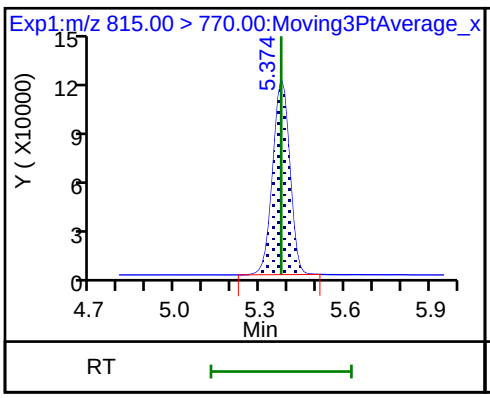
42 Perfluorotetradecanoic acid



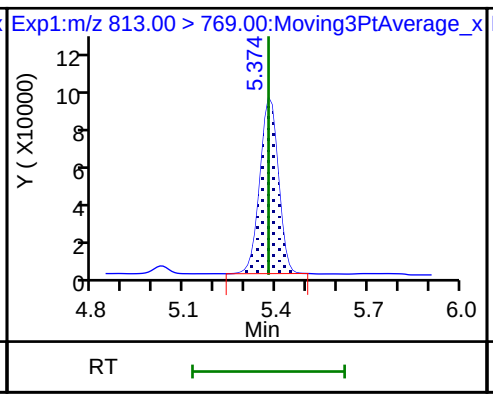
42 Perfluorotetradecanoic acid



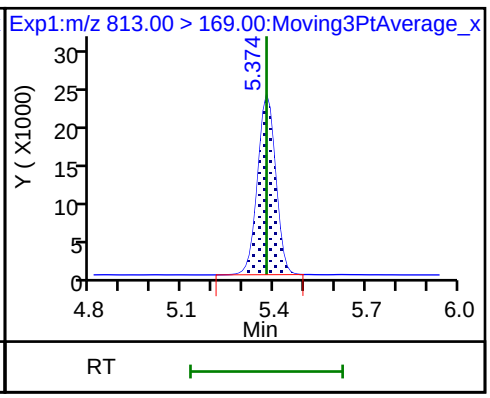
D 44 13C2 PFHxDA



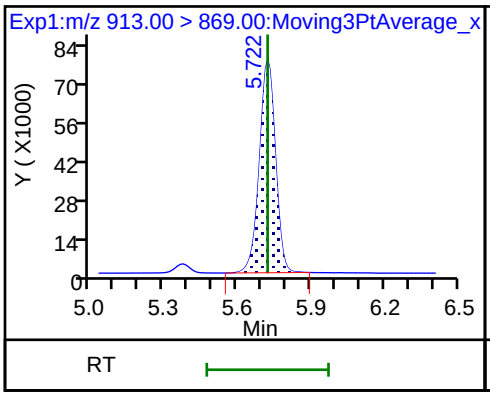
45 Perfluorohexadecanoic acid



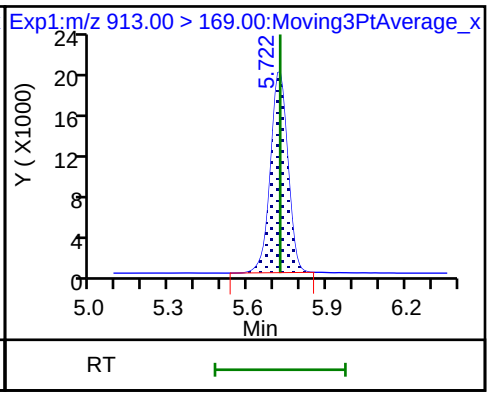
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

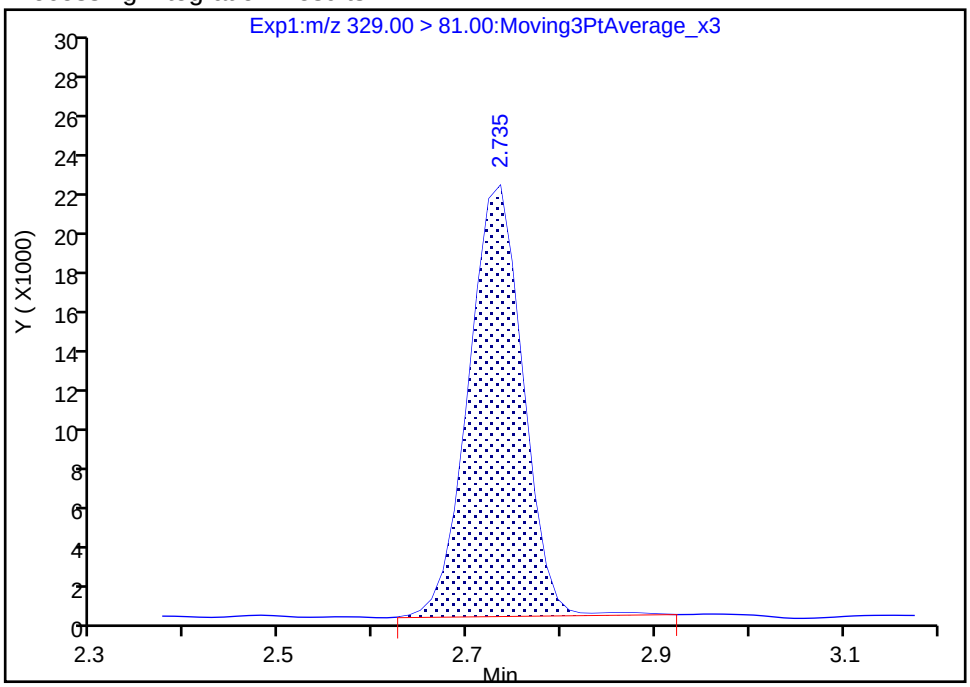
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL011.d				
Injection Date:	22-Dec-2020 13:13:03	Instrument ID:	LC812		
Lims ID:	ICIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

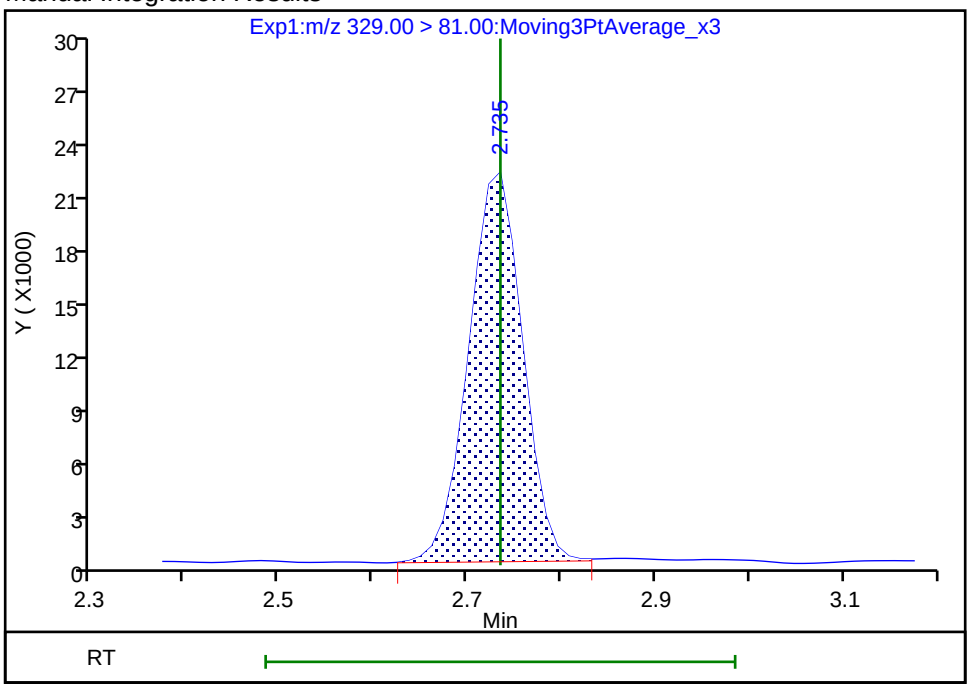
Processing Integration Results

RT: 2.73
Area: 86795
Amount: 1.148308
Amount Units: ng/ml



Manual Integration Results

RT: 2.73
Area: 86339
Amount: 1.137929
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:57:19

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

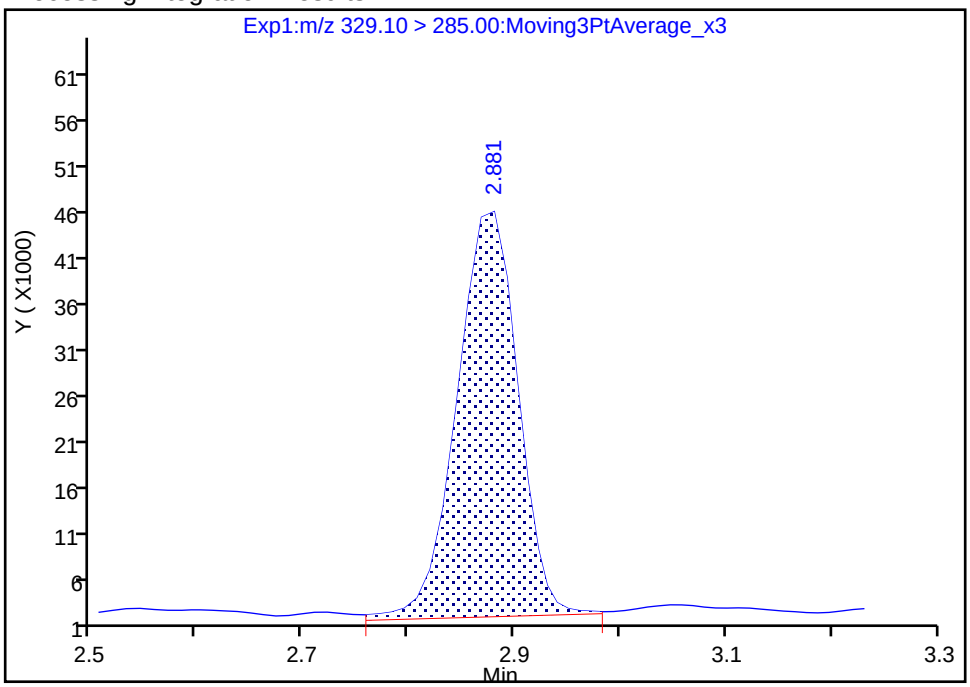
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL011.d				
Injection Date:	22-Dec-2020 13:13:03	Instrument ID:	LC812		
Lims ID:	ICIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

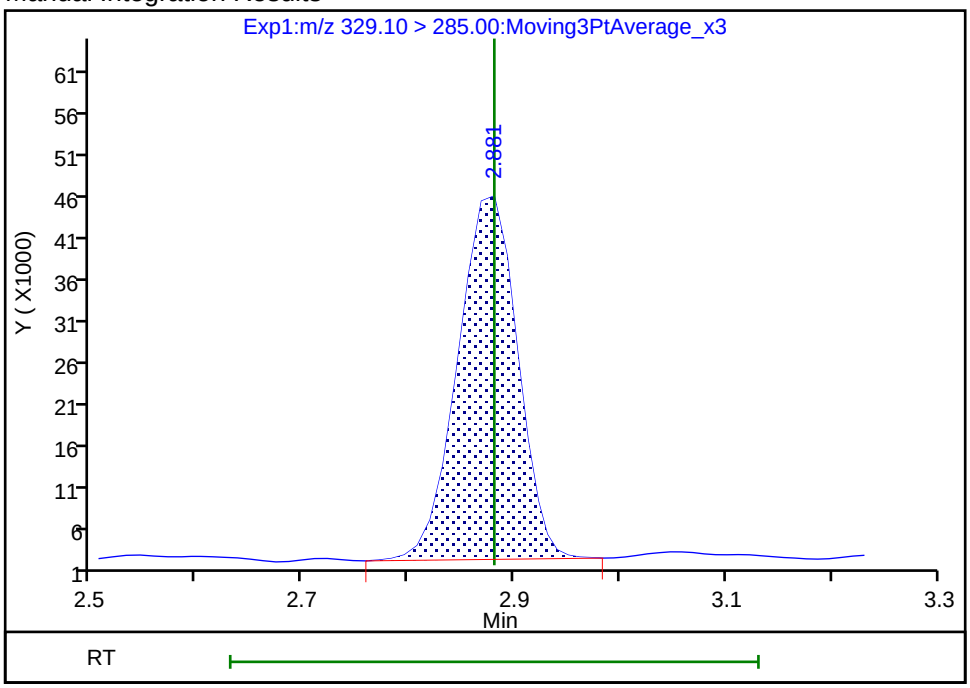
Processing Integration Results

RT: 2.88
Area: 175050
Amount: 1.025742
Amount Units: ng/ml



Manual Integration Results

RT: 2.88
Area: 169678
Amount: 0.915115
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:57:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

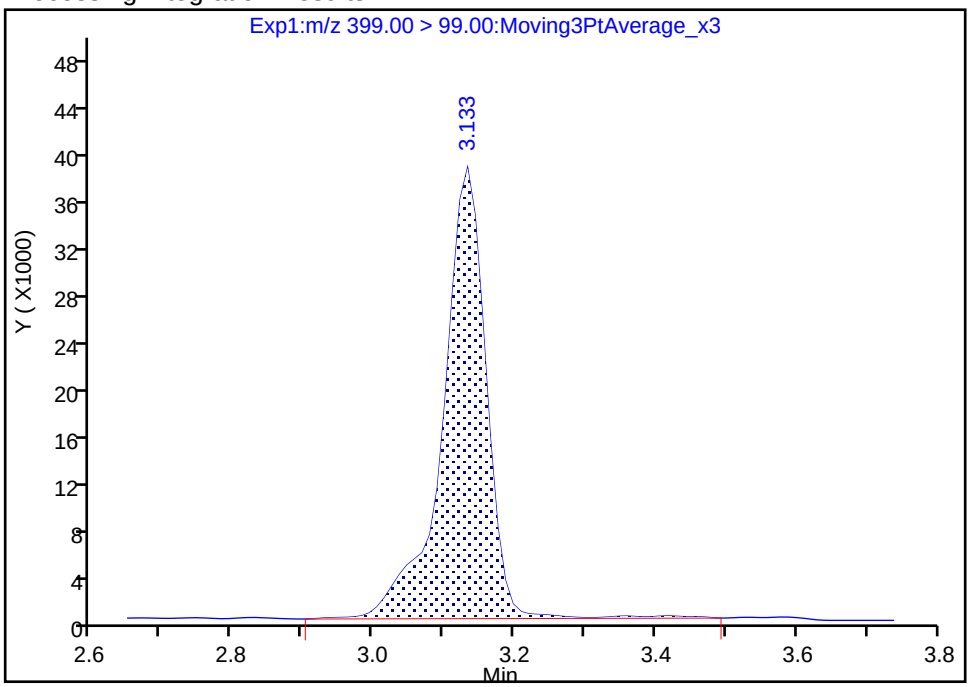
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL011.d		
Injection Date:	22-Dec-2020 13:13:03	Instrument ID:	LC812
Lims ID:	ICIS		
Client ID:			
Operator ID:	lc812tech	ALS Bottle#:	5 Worklist Smp#: 11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

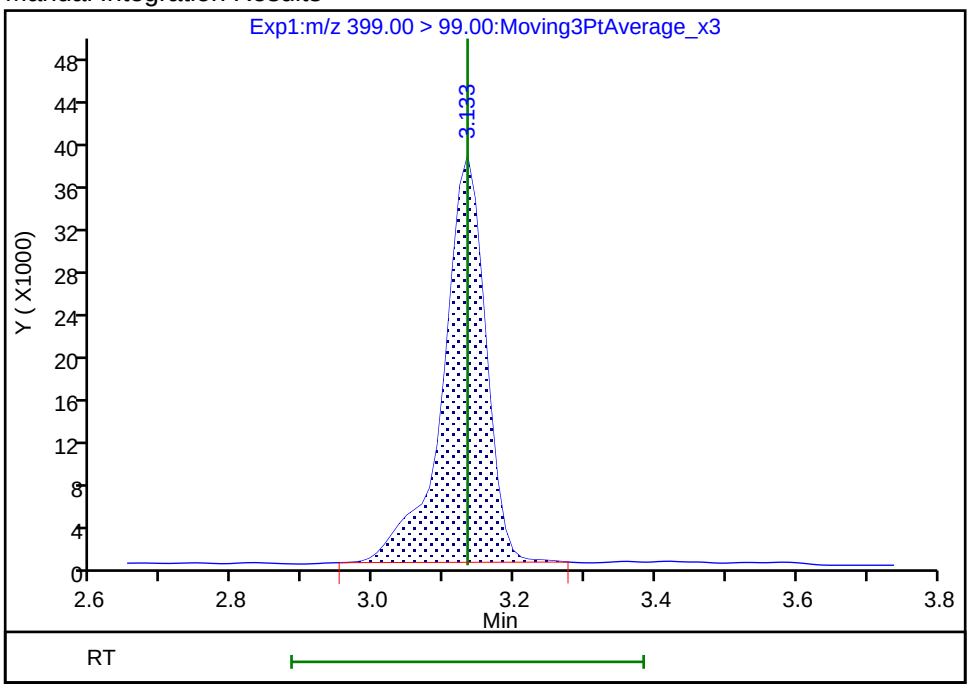
Processing Integration Results

RT: 3.13
Area: 166074
Amount: 0.928046
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 161822
Amount: 0.876218
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:56:59
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

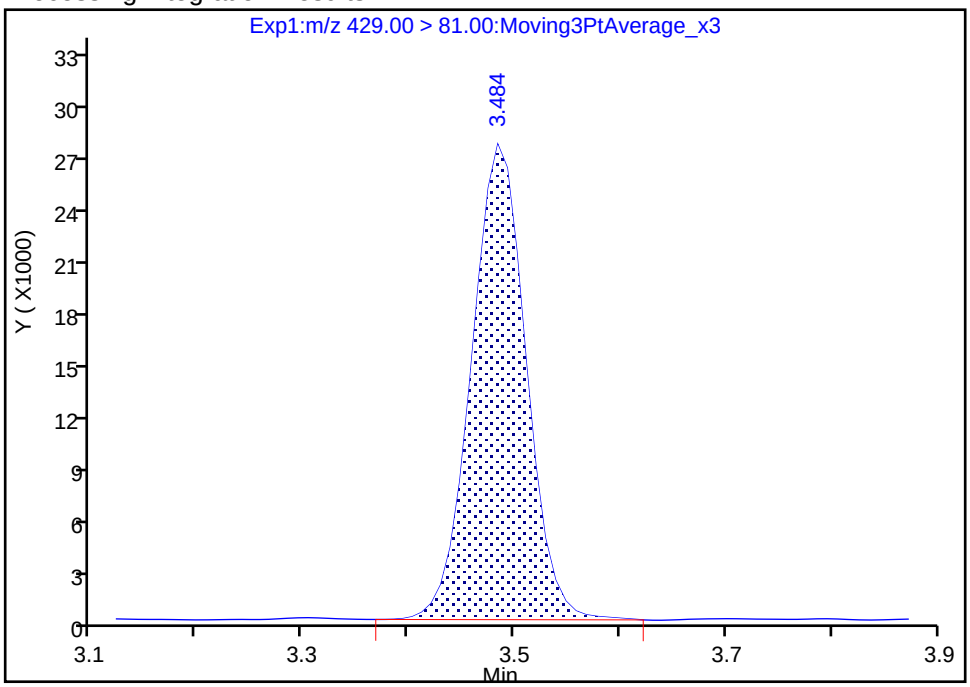
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL011.d		
Injection Date:	22-Dec-2020 13:13:03	Instrument ID:	LC812
Lims ID:	ICIS		
Client ID:			
Operator ID:	lc812tech	ALS Bottle#:	5 Worklist Smp#: 11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1

D 12 M2-6:2 FTS, CAS: STL02279

Signal: 1

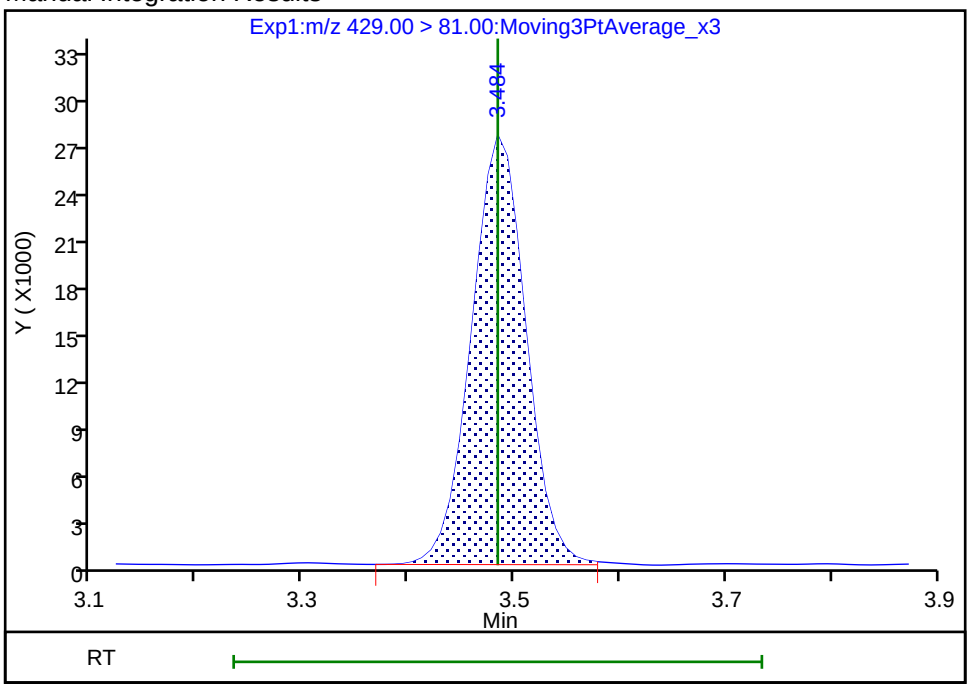
Processing Integration Results

RT: 3.48
Area: 97196
Amount: 1.150674
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 96952
Amount: 1.147595
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:56:46
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

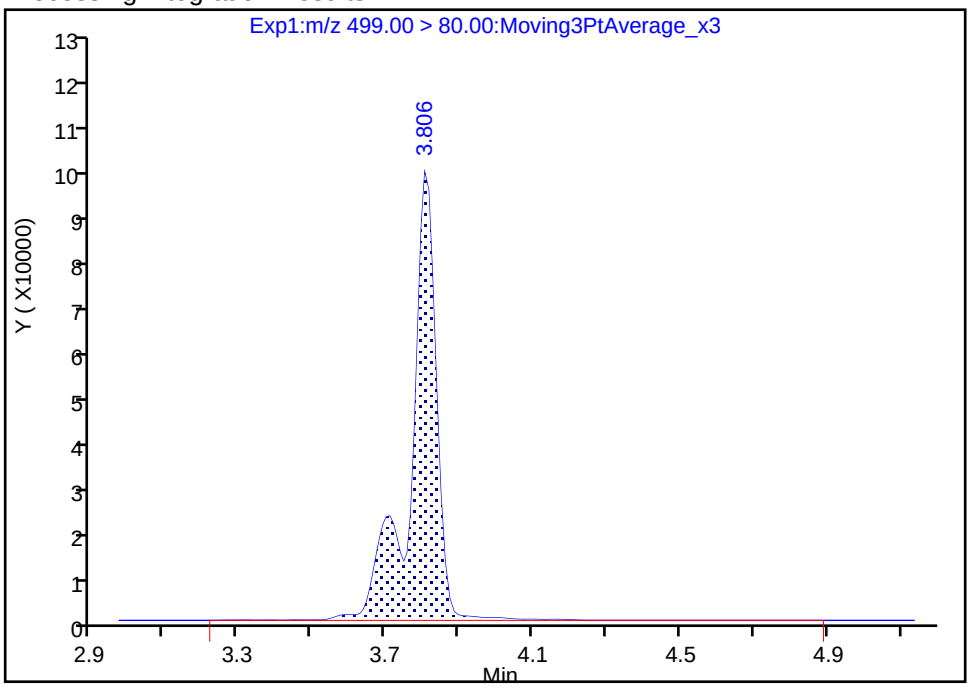
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL011.d				
Injection Date:	22-Dec-2020 13:13:03	Instrument ID:	LC812		
Lims ID:	ICIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

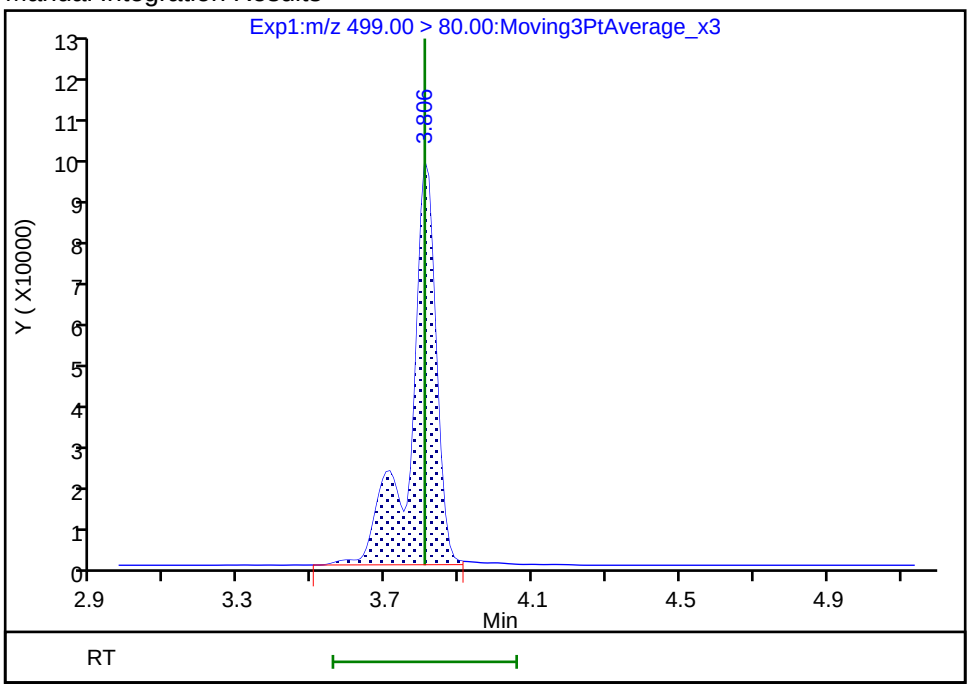
Processing Integration Results

RT: 3.81
Area: 472976
Amount: 0.918920
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 463174
Amount: 0.868208
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:56:27
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

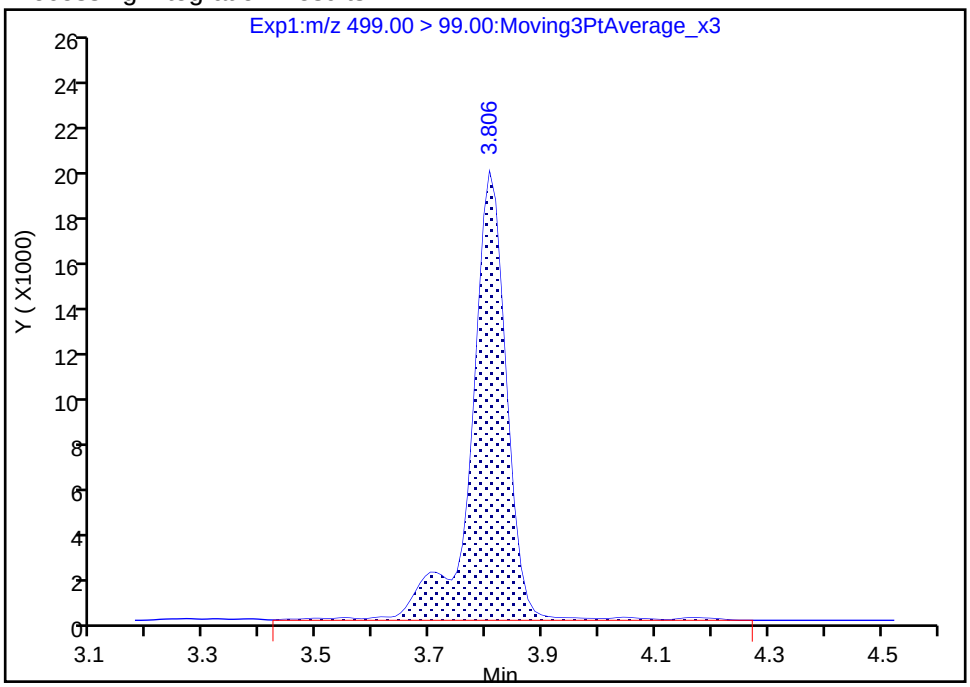
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL011.d				
Injection Date:	22-Dec-2020 13:13:03	Instrument ID:	LC812		
Lims ID:	ICIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

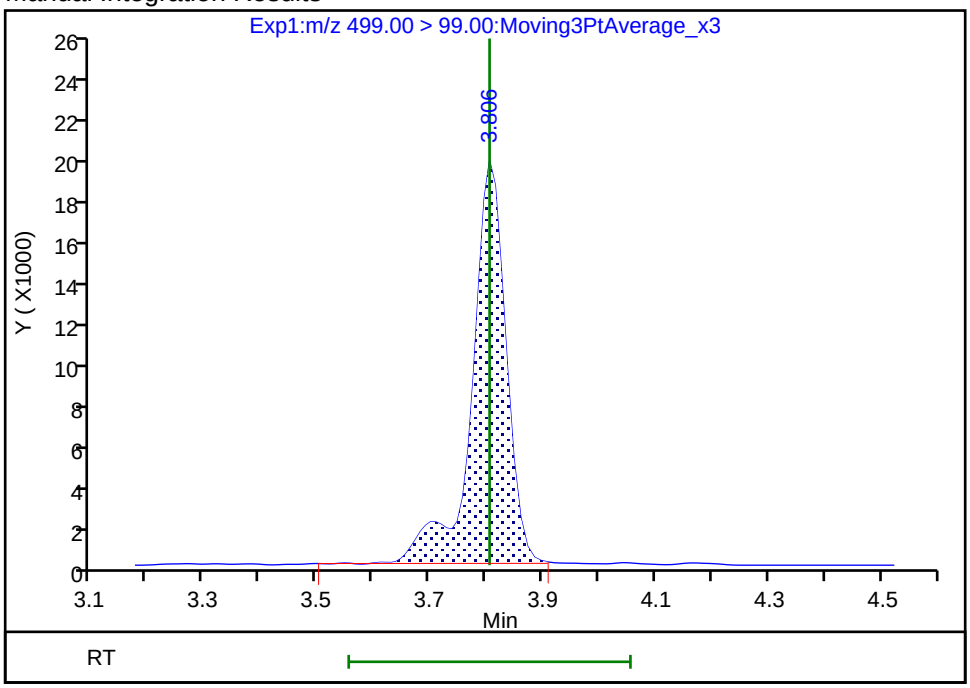
Processing Integration Results

RT: 3.81
Area: 85844
Amount: 0.918920
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 82037
Amount: 0.868208
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:56:31

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

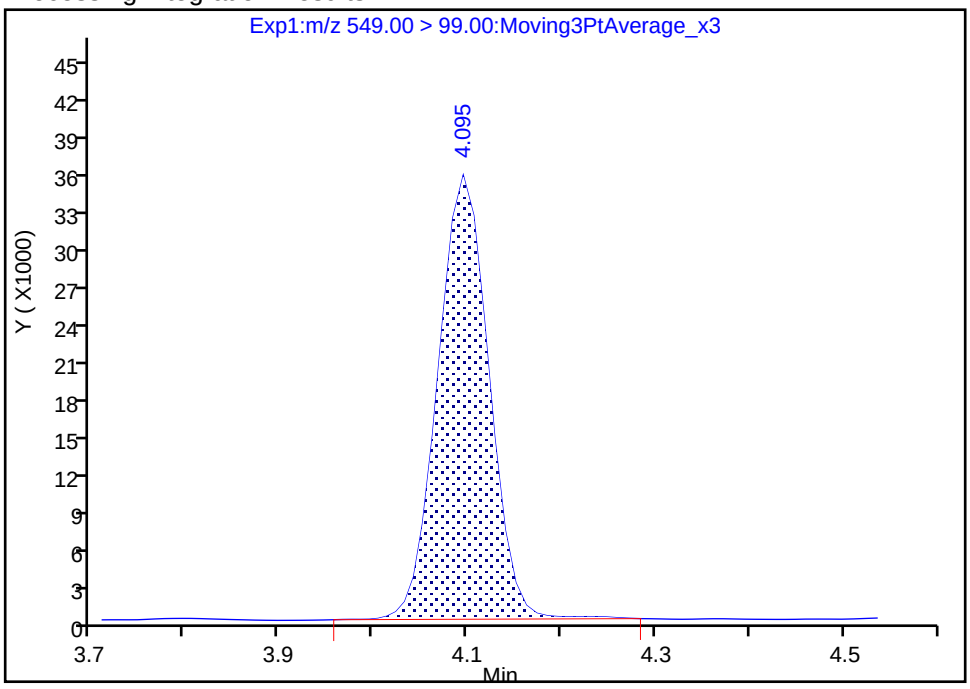
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL011.d				
Injection Date:	22-Dec-2020 13:13:03	Instrument ID:	LC812		
Lims ID:	ICIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

68 Perfluorononanesulfonic acid, CAS: 68259-12-1

Signal: 2

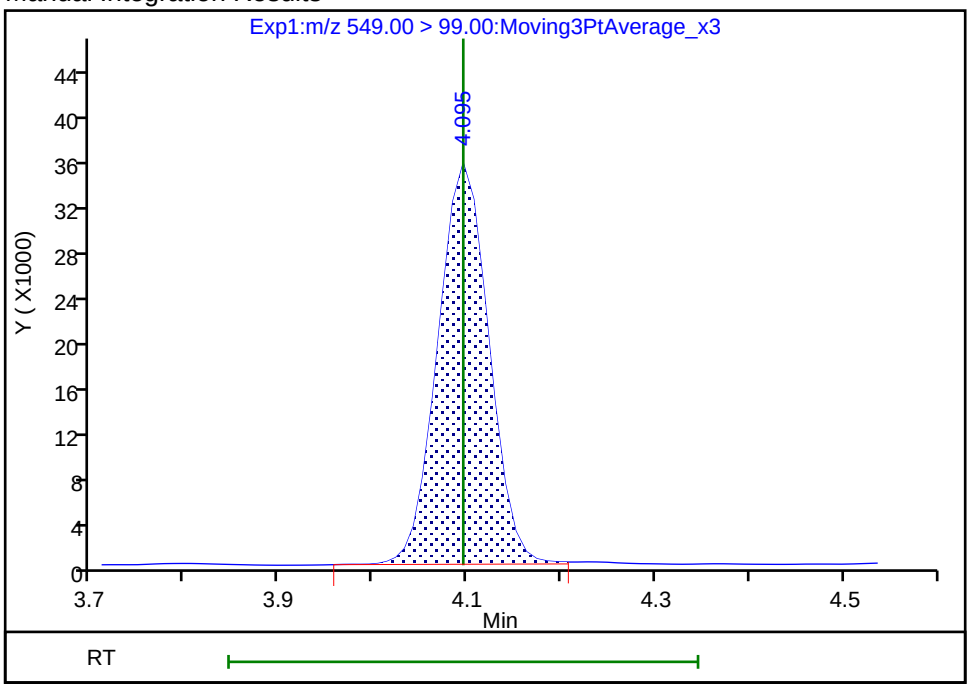
Processing Integration Results

RT: 4.10
Area: 134901
Amount: 0.905222
Amount Units: ng/ml



Manual Integration Results

RT: 4.10
Area: 134385
Amount: 0.857723
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:56:07

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

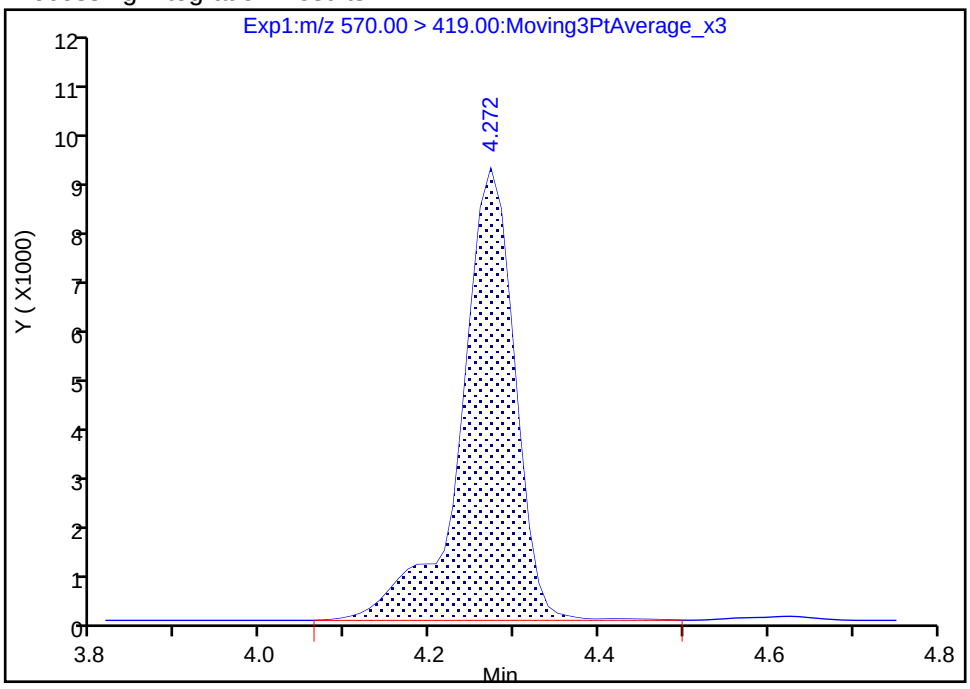
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL011.d				
Injection Date:	22-Dec-2020 13:13:03	Instrument ID:	LC812		
Lims ID:	ICIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

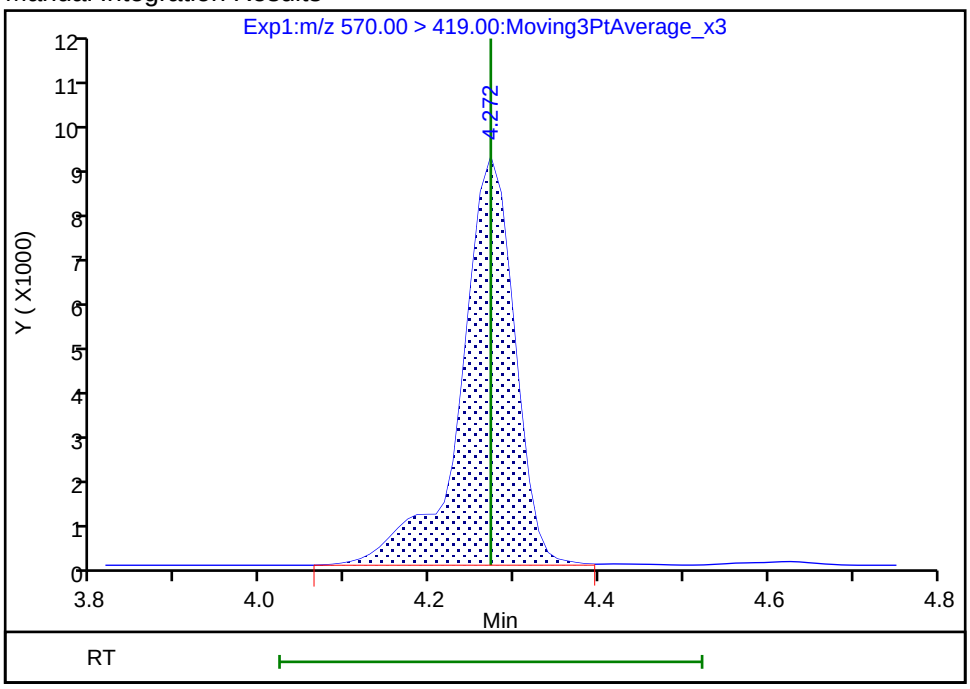
Processing Integration Results

RT: 4.27
Area: 38154
Amount: 1.017971
Amount Units: ng/ml



Manual Integration Results

RT: 4.27
Area: 38043
Amount: 1.016468
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:55:55
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

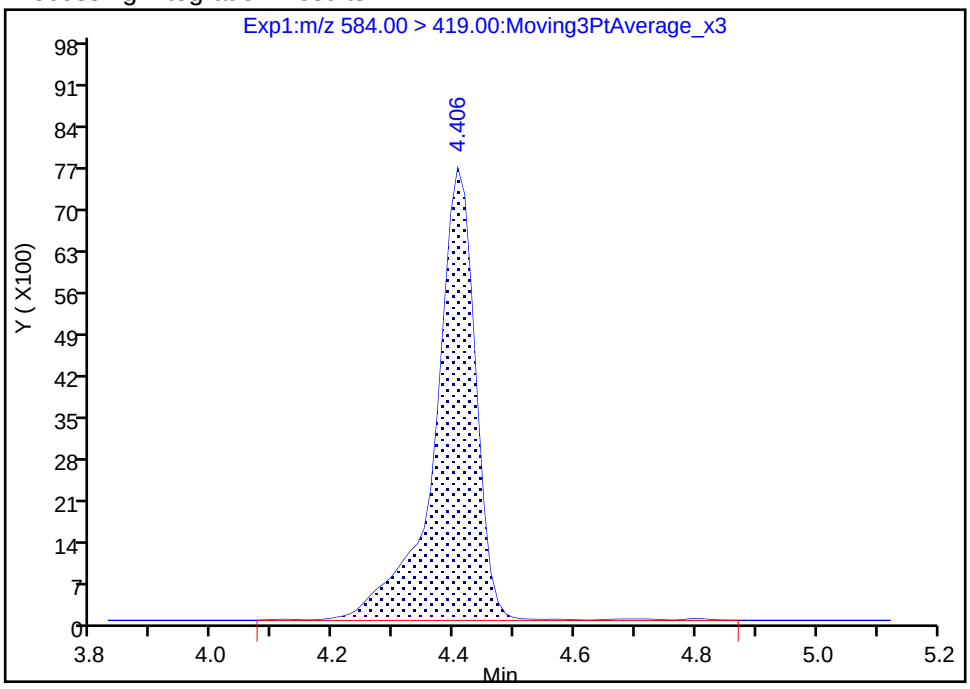
Data File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL011.d
Injection Date: 22-Dec-2020 13:13:03 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

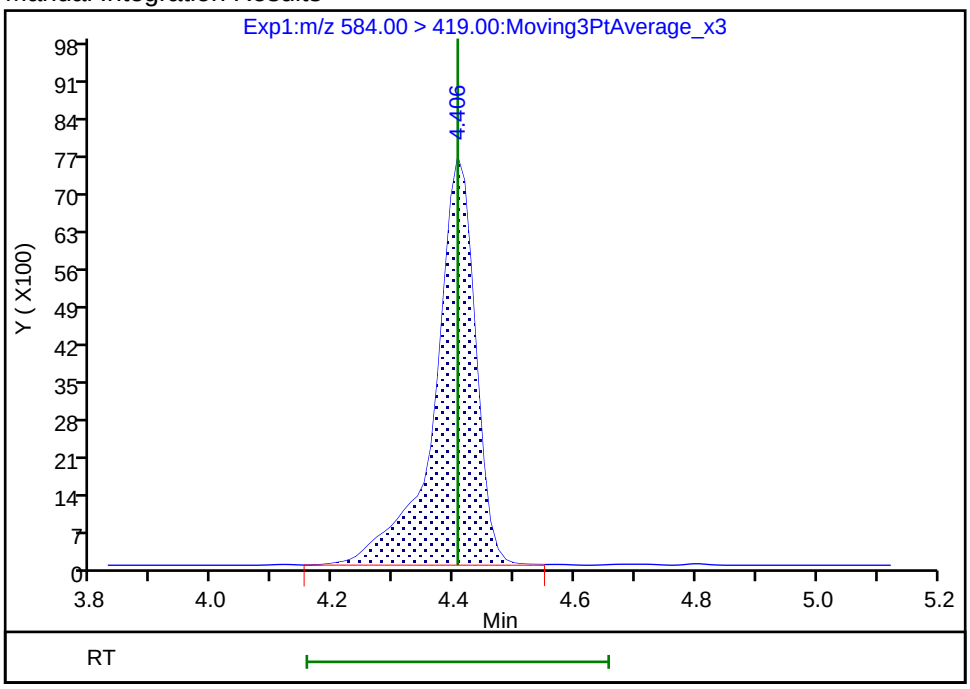
Processing Integration Results

RT: 4.41
Area: 36100
Amount: 0.951686
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 35802
Amount: 0.957678
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:55:27
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

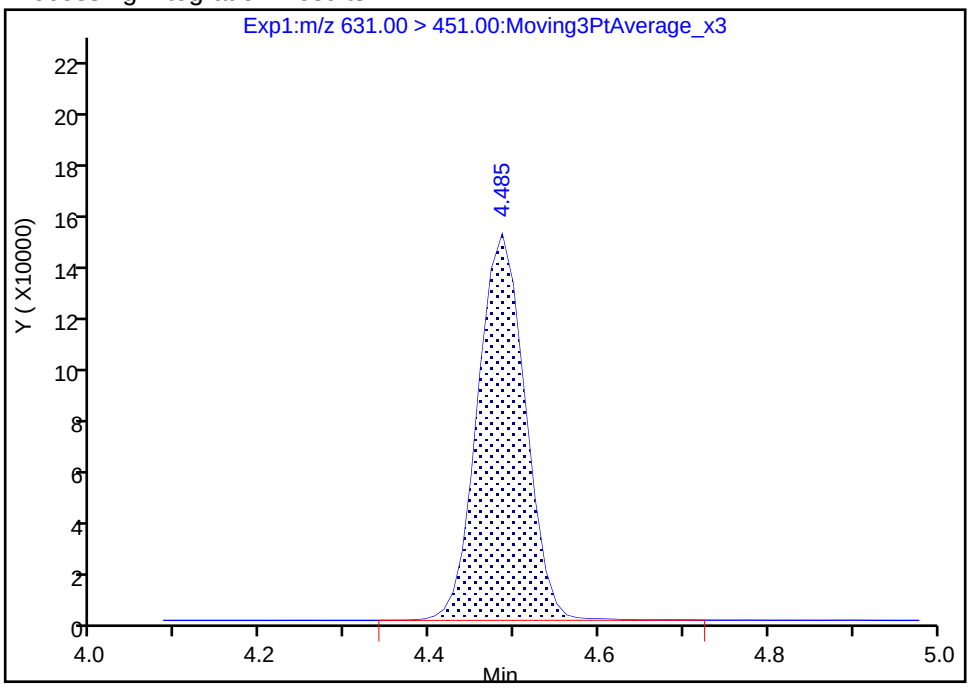
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL011.d				
Injection Date:	22-Dec-2020 13:13:03	Instrument ID:	LC812		
Lims ID:	ICIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

66 11-Chloroeicosafluoro-3-oxaundec, CAS: 763051-92-9

Signal: 1

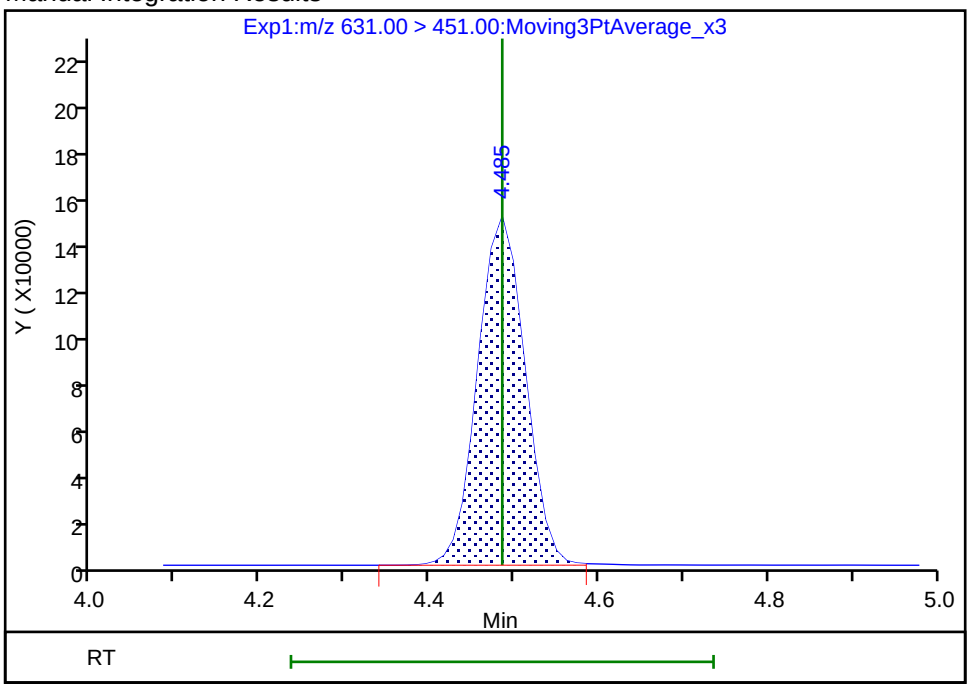
Processing Integration Results

RT: 4.49
Area: 585554
Amount: 0.956453
Amount Units: ng/ml



Manual Integration Results

RT: 4.49
Area: 584047
Amount: 0.945661
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 13:55:10
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

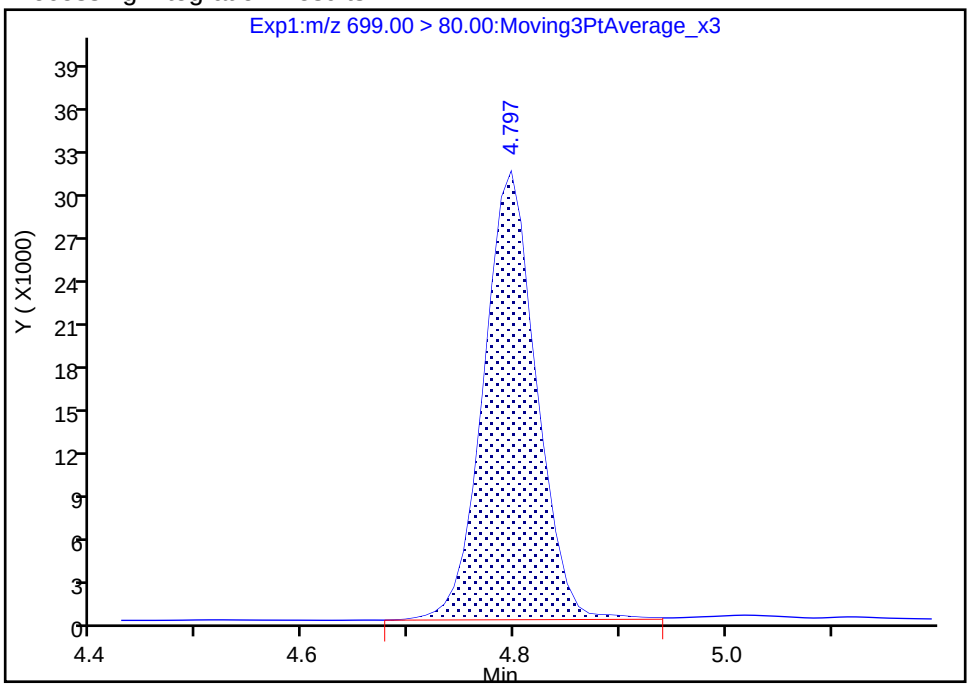
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL011.d				
Injection Date:	22-Dec-2020 13:13:03	Instrument ID:	LC812		
Lims ID:	ICIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 1

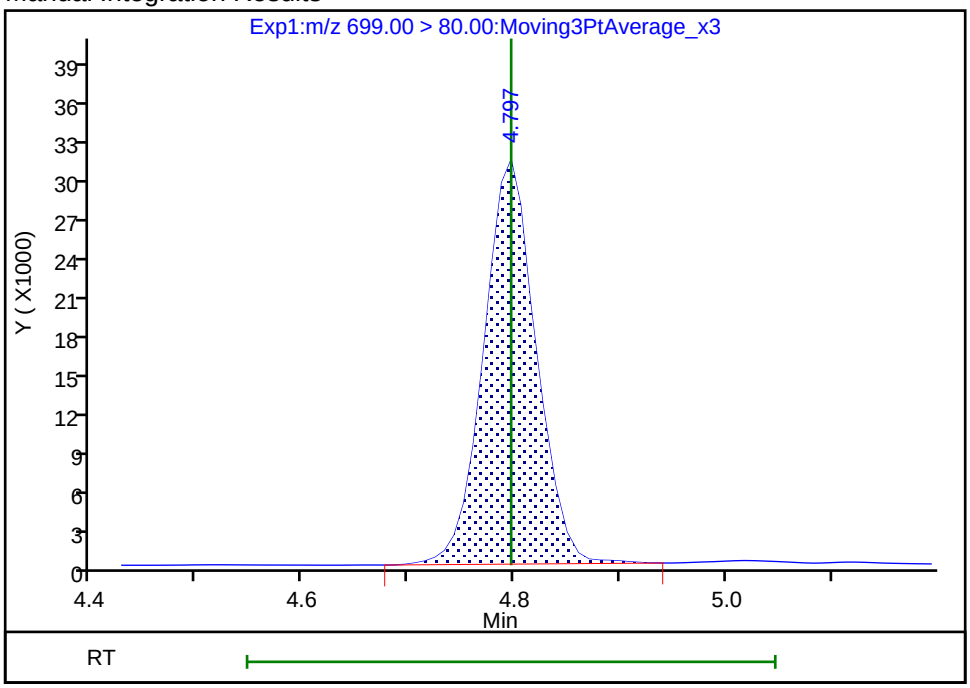
Processing Integration Results

RT: 4.80
Area: 107220
Amount: 0.917436
Amount Units: ng/ml



Manual Integration Results

RT: 4.80
Area: 106502
Amount: 0.912257
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:29:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL012.d
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 22-Dec-2020 13:21:21 ALS Bottle#: 6 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 200-0044184-012 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812
Sublist: chrom-PFC_LC812*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 22-Dec-2020 14:39:34 Calib Date: 22-Dec-2020 13:29:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1625

First Level Reviewer: deannd Date: 22-Dec-2020 14:07:02
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.089	2.091	-0.002	0.598	1183081	1.23		98.7	9506	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.089	2.091	-0.002	1.000	2187518	2.31		92.3	295	
D 3 13C5 PFPeA										
267.90 > 223.00	2.411	2.414	-0.003	0.690	850273	1.23		98.1	2895	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.411	2.414	-0.003	1.000	1757757	2.33		93.3	67.8	M
D 47 13C3 PFBS										
301.90 > 80.00	2.424	2.427	-0.003	0.694	1027240	1.13		96.9	180081	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.437	2.427	0.010	1.005	2100213	2.10	Target=2.21	95.1	2803	
298.90 > 99.00	2.424	2.427	-0.003	1.000	961927		2.18(1.10-3.31)	95.1	818	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.732	2.735	-0.003	1.000	303490	2.27		97.4	4444	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.732	2.735	-0.003	0.782	85003	1.12		95.7	91.0	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.768	2.771	-0.003	0.793	894513	1.23		98.5	3312	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.768	2.771	-0.003	1.000	1839714	2.35	Target=12.17	94.1	423	
313.00 > 119.00	2.768	2.771	-0.003	1.000	154104		11.94(6.09-18.26)	94.1	252	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.768	2.771	-0.003	0.884	1955608	2.22	Target=3.32	94.5	2881	
349.00 > 99.00	2.768	2.771	-0.003	0.884	582906		3.35(1.66-4.98)	94.5	848	
67 Perfluoro(2-propoxypropanoic) ac										
329.10 > 285.00	2.878	2.881	-0.003	1.000	401085	2.28		91.3	46.2	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.878	2.881	-0.003	0.824	158496	1.24		99.1	927	
D 11 18O2 PFHxS										
403.00 > 84.00	3.133	3.133	0.0	0.897	794776	1.17		99.0	2186	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.133	3.133	0.0	1.000	1650425	2.08	Target=4.08	91.6	1134	M
399.00 > 99.00	3.133	3.133	0.0	1.000	403565		4.09(2.04-6.11)	91.6	384	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.133	3.133	0.0	0.897	838035	1.20		96.4	2374	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.143	3.133	0.010	1.003	1824848	2.49	Target=3.70	99.7	409	
363.00 > 169.00	3.143	3.133	0.010	1.003	477628		3.82(1.85-5.56)	99.7	918	
77 DONA										
377.00 > 251.00	3.175	3.176	-0.001	0.835	3554808	2.40	Target=2.47	102	2378	
377.00 > 85.00	3.175	3.176	-0.001	0.835	1382083		2.57(1.23-3.70)	102	1182	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.483	3.484	-0.001	0.916	1352437	2.26	Target=5.85	95.0	5671	
449.00 > 99.00	3.483	3.484	-0.001	0.916	226210		5.98(2.93-8.78)	95.0	974	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.483	3.484	-0.001	0.997	97655	1.15		97.0	471	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.483	3.484	-0.001	1.000	214702	2.35		99.0	1811	
D 14 13C4 PFOA										
417.00 > 372.00	3.492	3.493	-0.001	1.000	862938	1.22		97.7	2325	
* 62 13C2 PFOA										
415.00 > 370.00	3.492	3.493	-0.001		892433	1.25			2279	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.492	3.493	-0.001	1.000	1777820	2.38	Target=2.58	95.0	367	
413.00 > 169.00	3.492	3.493	-0.001	1.000	690547		2.57(1.29-3.87)	95.0	1154	M
D 18 13C4 PFOS										
503.00 > 80.00	3.804	3.806	-0.002	1.089	529467	1.14		95.1	1322	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.804	3.806	-0.002	1.000	1114751	2.19	Target=5.56	94.3	1348	M
499.00 > 99.00	3.804	3.806	-0.002	1.000	198425		5.62(2.78-8.34)	94.3	627	M
D 19 13C5 PFNA										
468.00 > 423.00	3.825	3.826	-0.001	1.095	756323	1.21		97.1	3684	
20 Perfluorononanoic acid										
463.00 > 419.00	3.825	3.826	-0.001	1.000	1571226	2.35	Target=6.87	93.8	259	
463.00 > 169.00	3.825	3.826	-0.001	1.000	229840		6.84(3.43-10.30)	93.8	1752	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.974	3.967	0.007	1.045	1341633	2.36		101	3383	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.093	4.095	-0.002	1.076	862047	2.27	Target=2.78	94.5	2392	
549.00 > 99.00	4.093	4.095	-0.002	1.076	311060		2.77(1.39-4.17)	94.5	1009	
D 23 13C2 PFDA										
515.00 > 470.00	4.126	4.129	-0.003	1.182	760056	1.28		102	3401	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.126	4.129	-0.003	1.000	1443205	2.30	Target=9.03	92.1	841	
513.00 > 169.00	4.126	4.129	-0.003	1.000	169912		8.49(4.51-13.54)	92.1	930	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.137	4.140	-0.003	1.000	138394	2.40		100	1447	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.137	4.140	-0.003	1.185	101608	1.16		97.0	466	
D 21 13C8 FOSA										
506.00 > 78.00	4.215	4.207	0.008	1.207	1040920	1.19		95.1	3186	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.215	4.207	0.008	1.000	2150057	2.58		103	4654	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.268	4.272	-0.004	1.222	52266	1.21		96.7	51.5	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.268	4.272	-0.004	1.000	94320	2.54		102	737	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.358	4.362	-0.004	1.146	730691	2.41	Target=2.76	100	2833	
599.00 > 99.00	4.358	4.362	-0.004	1.146	275358		2.65(1.38-4.14)	100	1107	
D 30 13C2 PFUnA										
565.00 > 520.00	4.391	4.384	0.007	1.257	601281	1.23		98.3	3472	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.391	4.395	-0.004	1.000	1201956	2.45	Target=8.02	98.0	427	
563.00 > 169.00	4.391	4.395	-0.004	1.000	148688		8.08(4.01-12.03)	98.0	1524	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.402	4.395	0.007	1.261	49976	1.20		95.7	418	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.402	4.406	-0.004	1.000	96074	2.60		104	738	M
66 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.480	4.485	-0.005	1.178	1357763	2.30		97.7	2955	
D 36 13C2 PFDoA										
615.00 > 570.00	4.622	4.626	-0.004	1.323	623891	1.21		96.6	2594	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.622	4.626	-0.004	1.000	1310849	2.39	Target=6.85	95.5	318	
613.00 > 169.00	4.622	4.626	-0.004	1.000	198640		6.60(3.42-10.27)	95.5	2140	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.642	4.637	0.005	1.122	72297	2.43		101	1626	
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.792	4.797	-0.005	1.260	244860	2.20	Target=0.53	90.7	659	M
699.00 > 99.00	4.792	4.797	-0.005	1.260	492584		0.50(0.26-0.79)	90.7	1772	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.834	4.839	-0.005	1.046	1098559	2.47	Target=4.48	98.6	391	
663.00 > 169.00	4.834	4.839	-0.005	1.046	251357		4.37(2.24-6.72)	98.6	2262	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.024	5.027	-0.003	1.439	469963	1.23		98.4	3452	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.024	5.027	-0.003	1.000	167971	2.41	Target=0.99	96.4	1947	
713.00 > 219.00	5.024	5.027	-0.003	1.000	158772		1.06(0.50-1.49)	96.4	2056	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.372	5.374	-0.002	1.538	505699	1.24		99.1	1951	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.372	5.374	-0.002	1.000	948058	2.50	Target=4.02	100	251	
813.00 > 169.00	5.372	5.374	-0.002	1.000	224400		4.22(2.01-6.02)	100	2163	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.720	5.722	-0.002	1.065	885277	2.43	Target=3.88	97.3	484	
913.00 > 169.00	5.720	5.722	-0.002	1.065	226882		3.90(1.94-5.82)	97.3	1101	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC5_00013 Amount Added: 100.00 Units: uL

Report Date: 22-Dec-2020 14:39:35 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL012.d

Injection Date: 22-Dec-2020 13:21:21 Instrument ID: LC812

Lims ID: IC

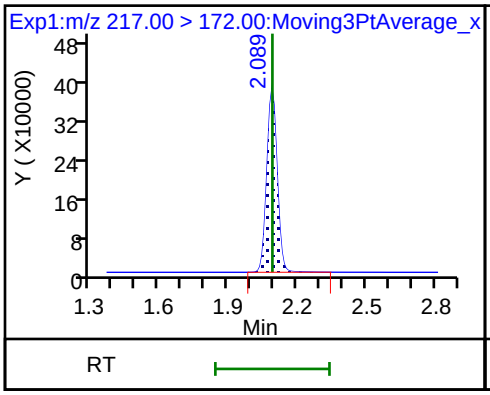
Client ID:

Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 12

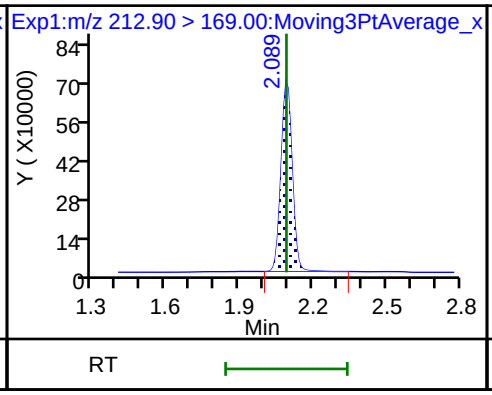
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

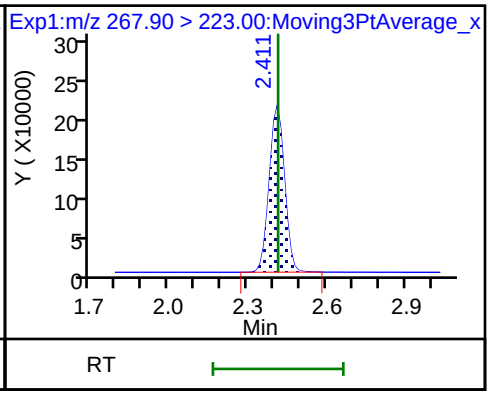
D 1 13C4 PFBA



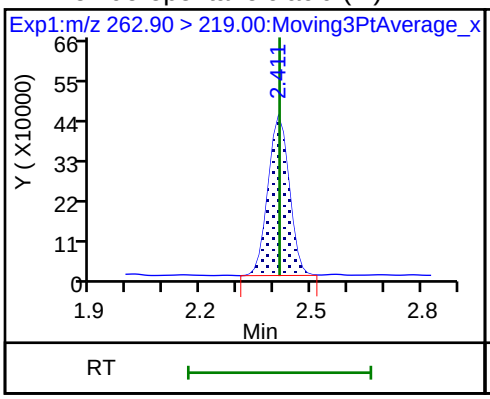
2 Perfluorobutanoic acid



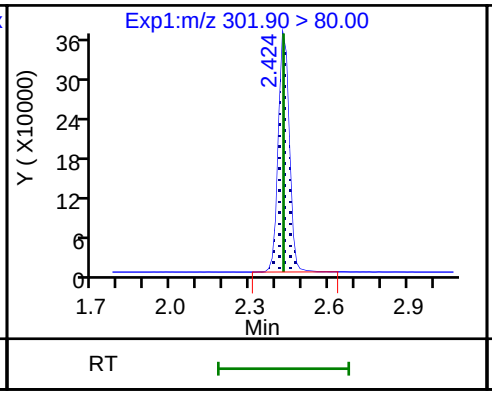
D 3 13C5 PFPeA



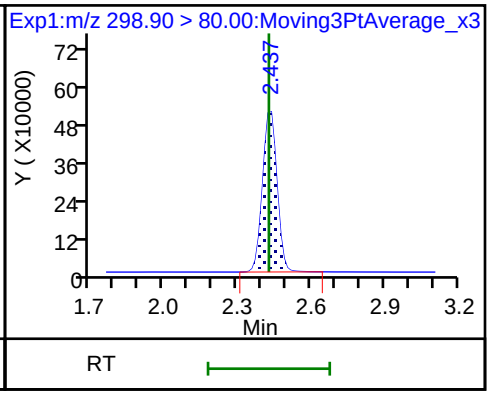
4 Perfluoropentanoic acid (M)



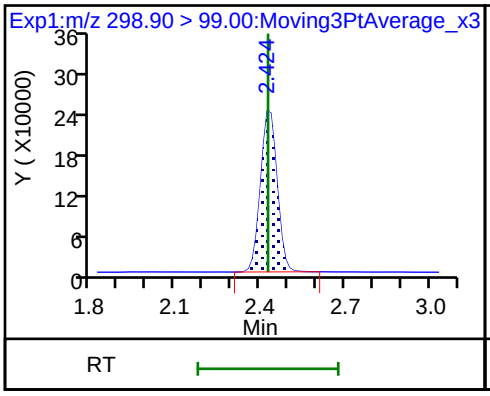
D 47 13C3 PFBS



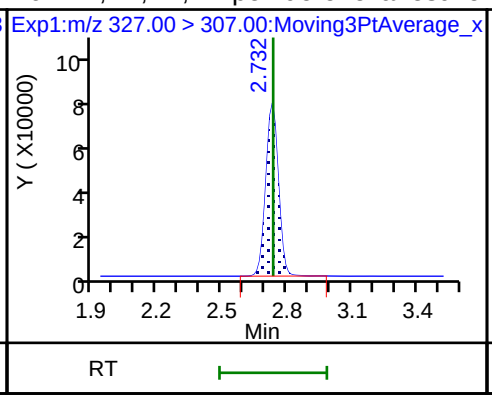
5 Perfluorobutanesulfonic acid



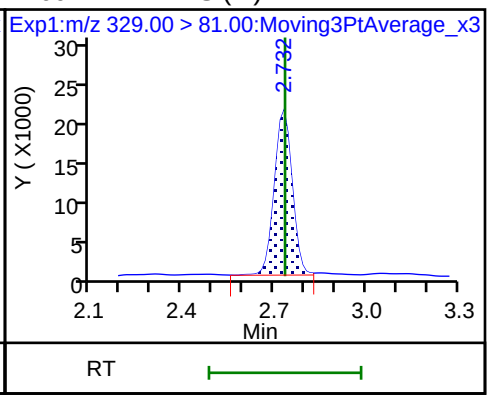
5 Perfluorobutanesulfonic acid



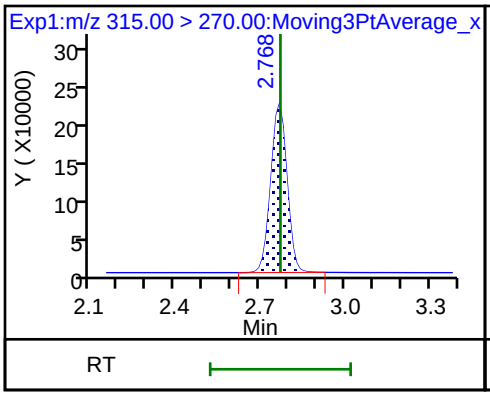
61 1H,1H,2H,2H-perfluorohexanesulfo



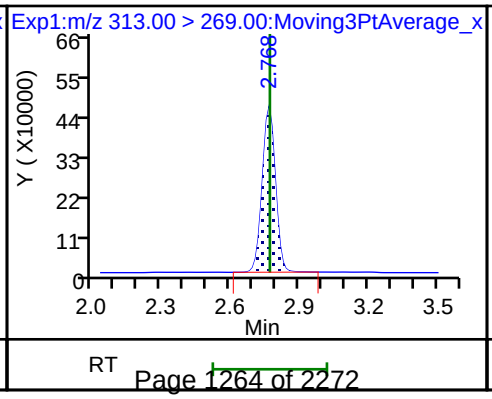
D 60 M2-4:2 FTS (M)



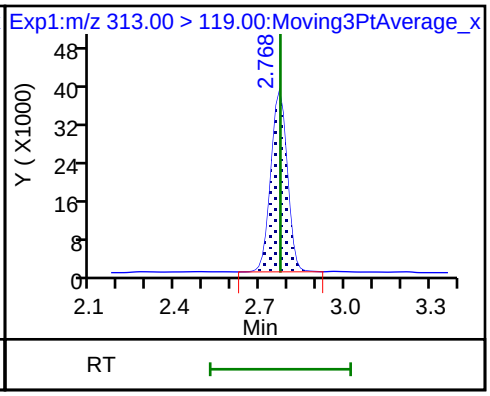
D 7 13C2 PFHxA



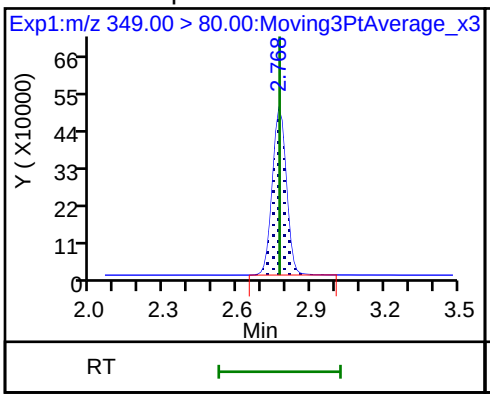
6 Perfluorohexanoic acid



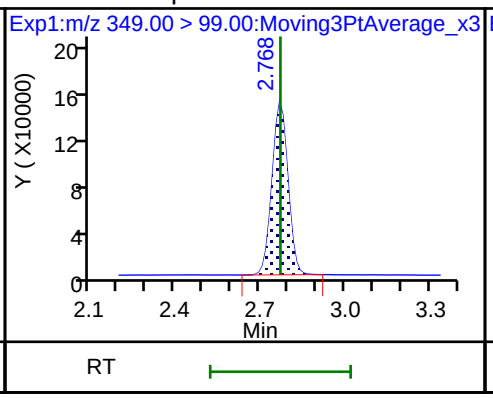
6 Perfluorohexanoic acid



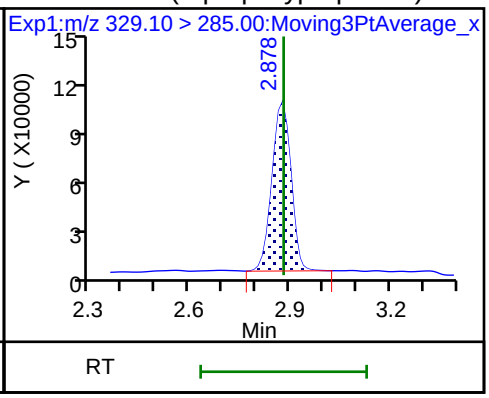
70 Perfluoropentanesulfonic acid



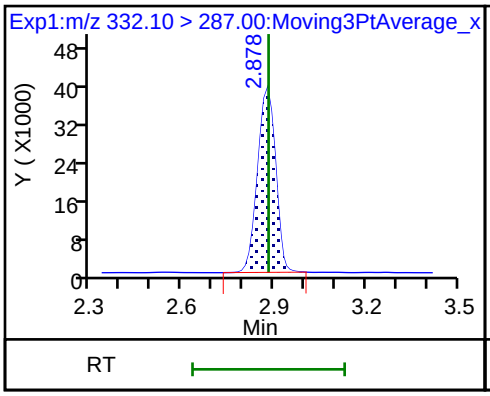
70 Perfluoropentanesulfonic acid



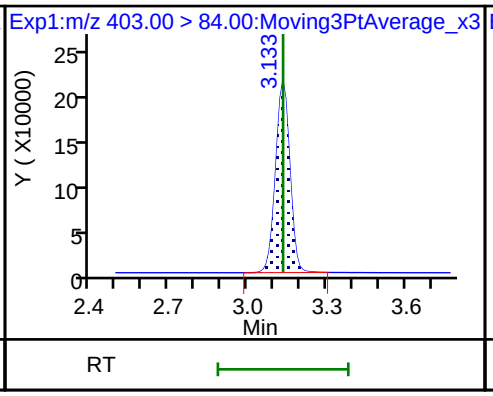
67 Perfluoro(2-propoxypropanoic) ac



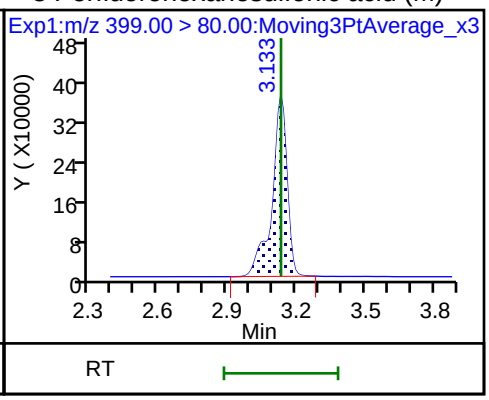
D 64 13C3 HFPO-DA



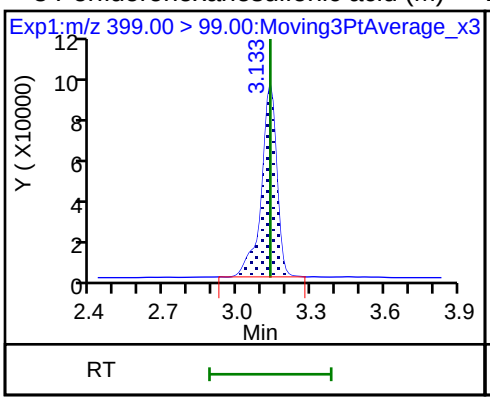
D 11 18O2 PFHxS



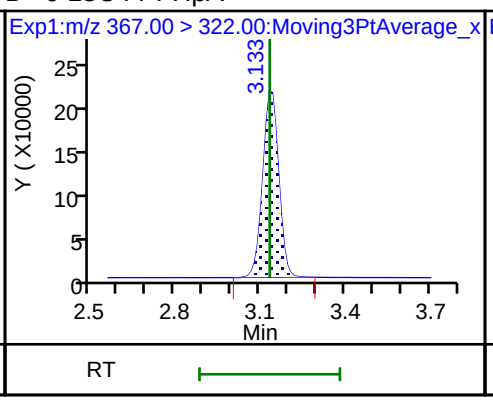
8 Perfluorohexanesulfonic acid (M)



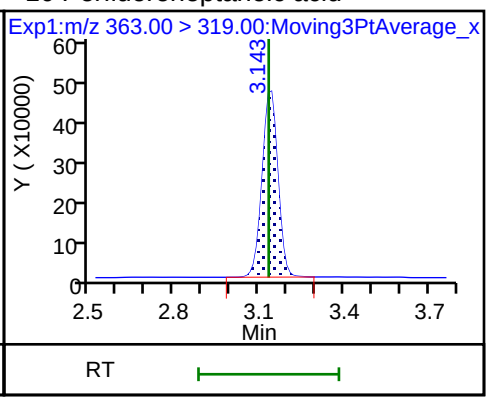
8 Perfluorohexanesulfonic acid (M)



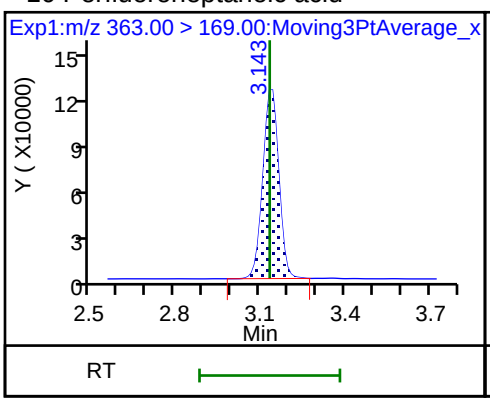
D 9 13C4 PFHpA



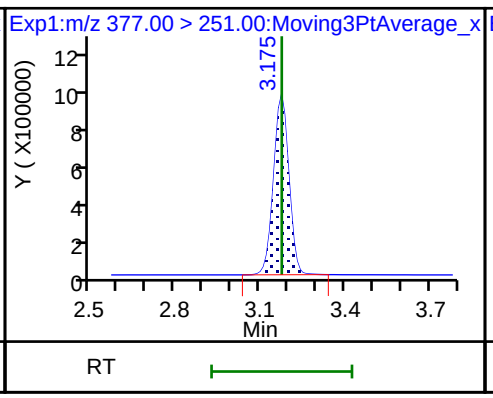
10 Perfluoroheptanoic acid



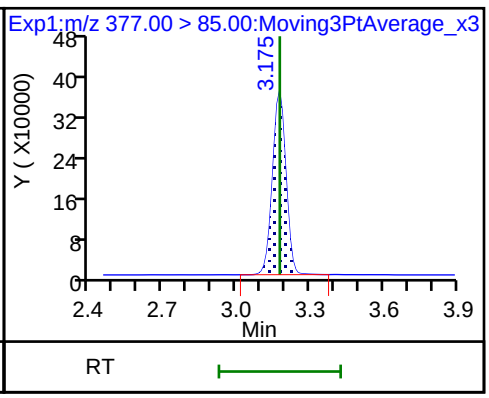
10 Perfluoroheptanoic acid



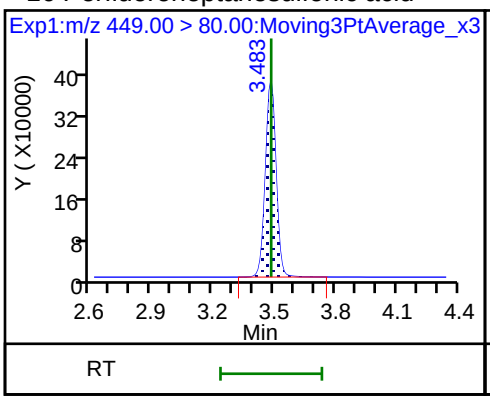
77 DONA



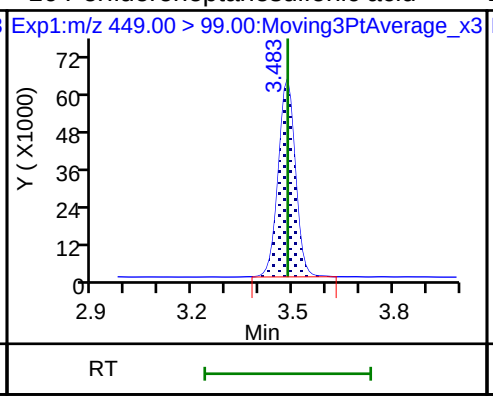
77 DONA



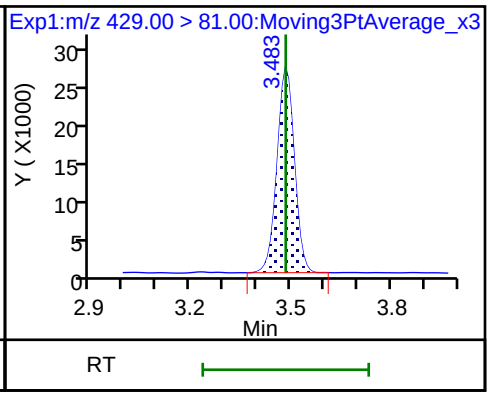
16 Perfluoroheptanesulfonic acid



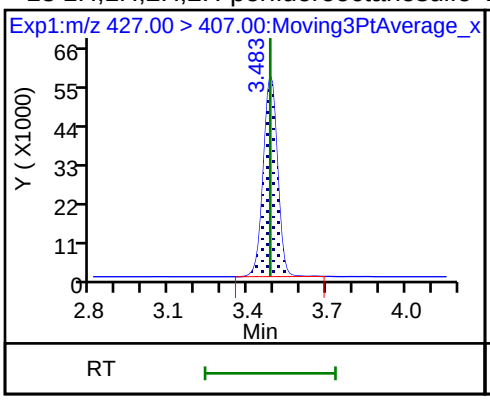
16 Perfluoroheptanesulfonic acid



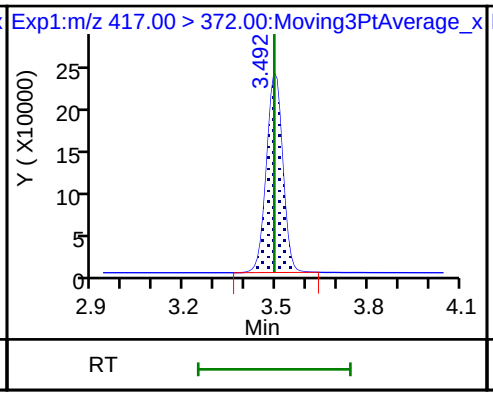
D 12 M2-6:2 FTS



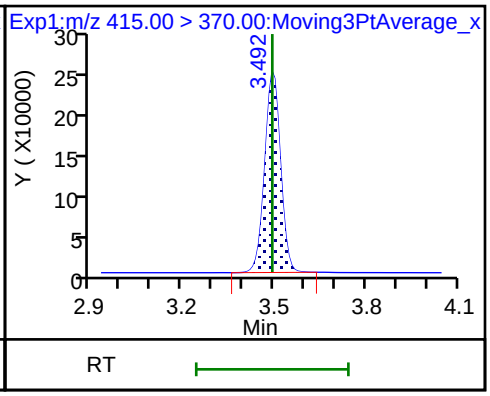
13 1H,1H,2H,2H-perfluorooctanesulfo



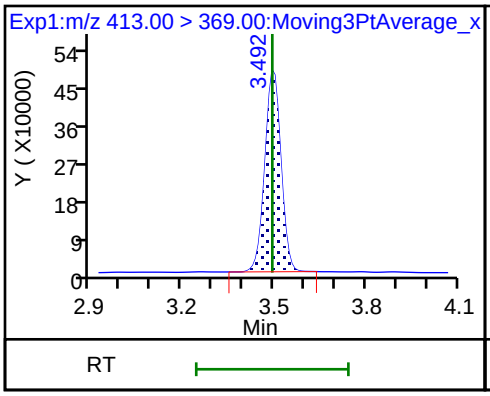
D 14 13C4 PFOA



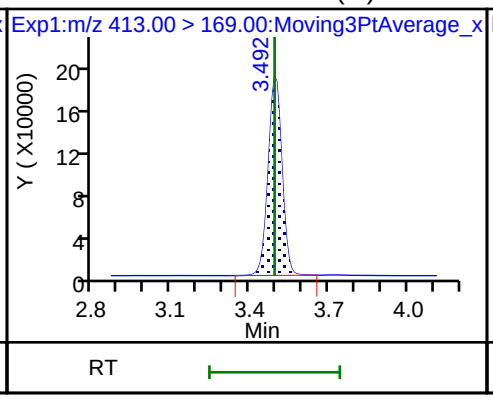
* 62 13C2 PFOA



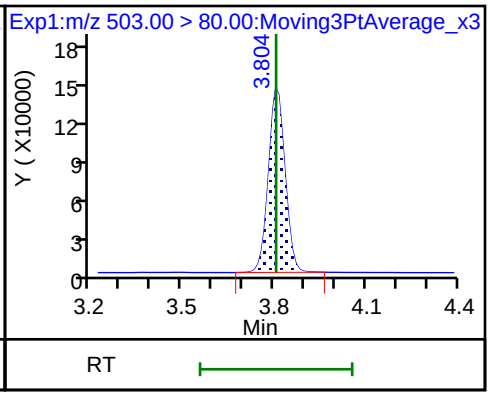
15 Perfluorooctanoic acid



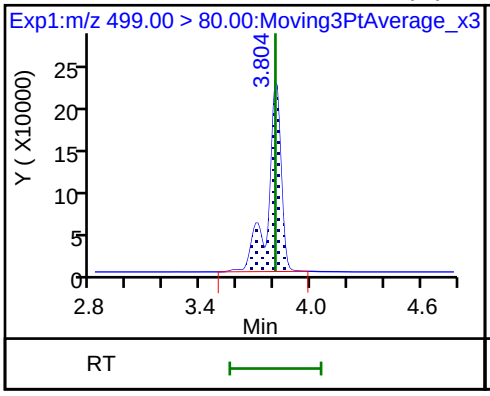
15 Perfluorooctanoic acid (M)



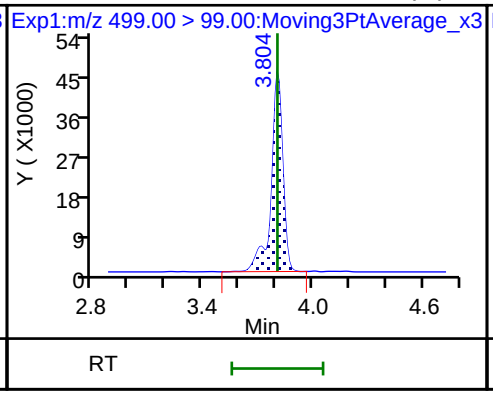
D 18 13C4 PFOS



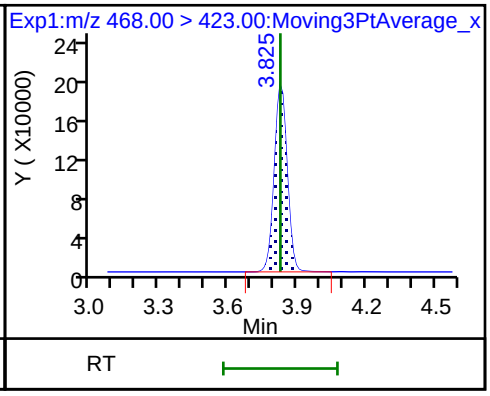
17 Perfluorooctanesulfonic acid (M)



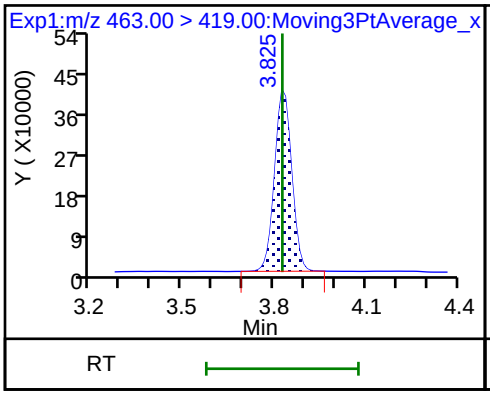
17 Perfluorooctanesulfonic acid (M)



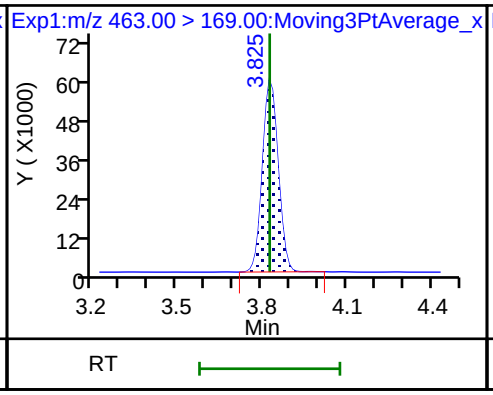
D 19 13C5 PFNA



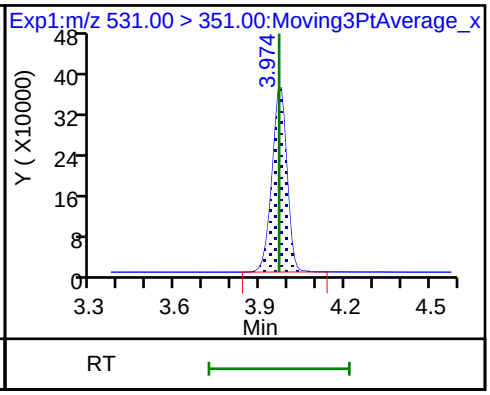
20 Perfluorononanoic acid



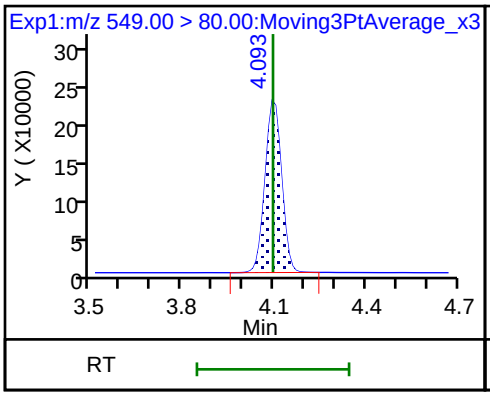
20 Perfluorononanoic acid



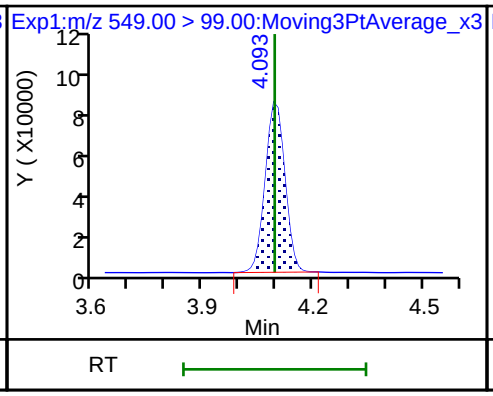
69 9-Chlorohexadecafluoro-3-oxanona



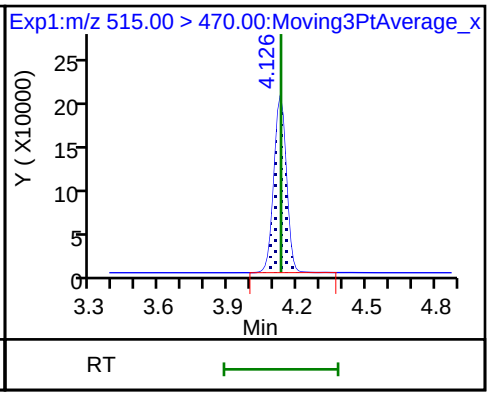
68 Perfluorononanesulfonic acid



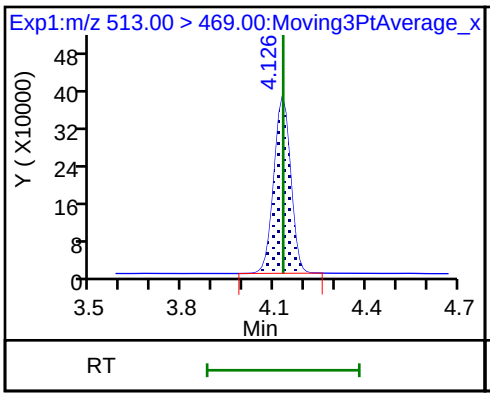
68 Perfluorononanesulfonic acid



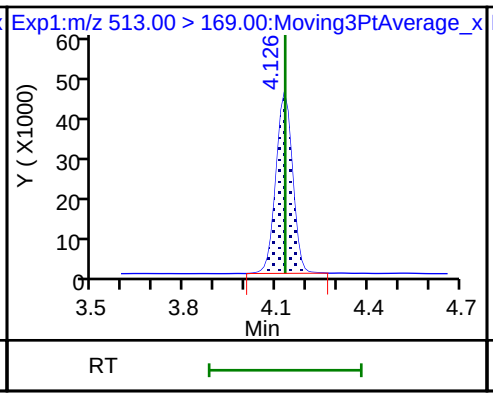
D 23 13C2 PFDA



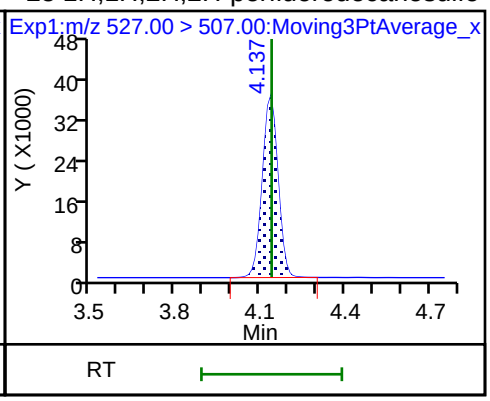
24 Perfluorodecanoic acid



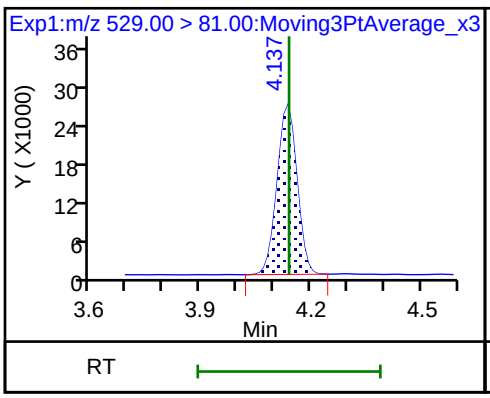
24 Perfluorodecanoic acid



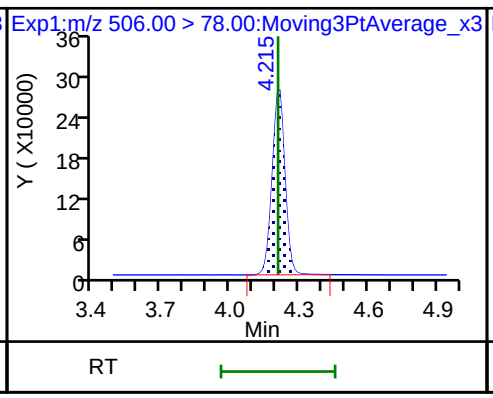
25 1H,1H,2H,2H-perfluorodecanesulfo



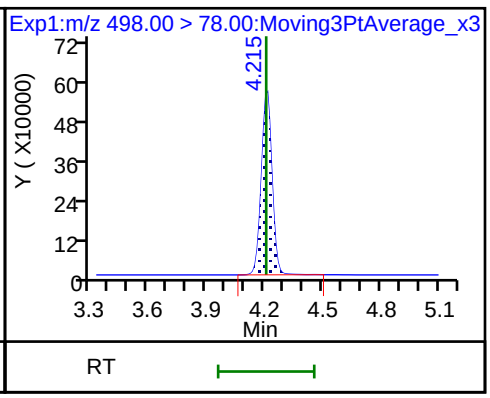
D 26 M2-8:2 FTS



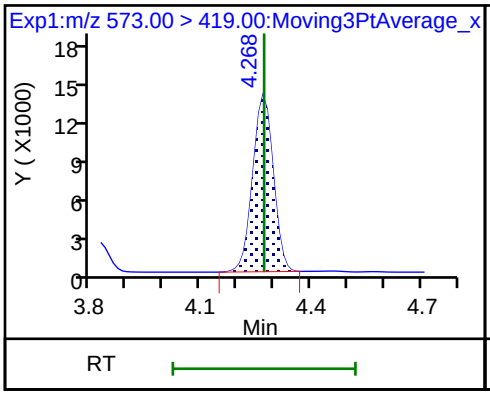
D 21 13C8 FOSA



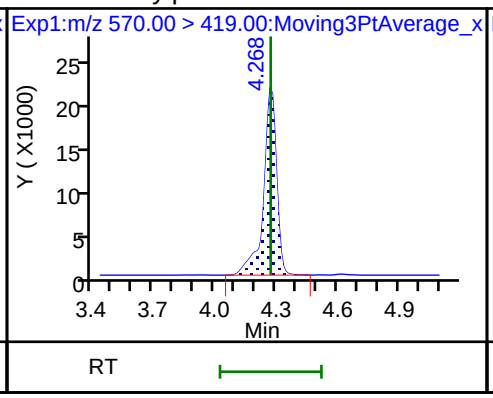
22 Perfluorooctanesulfonamide



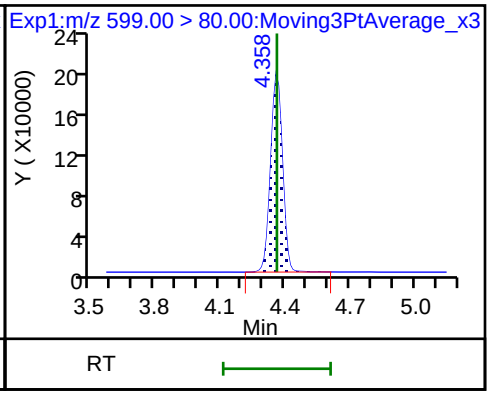
D 27 d3-NMeFOSAA



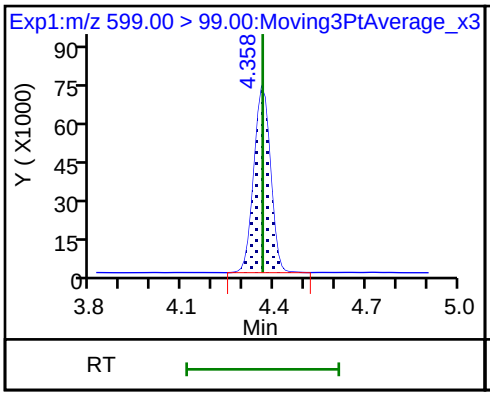
28 N-methylperfluorooctanesulfonami



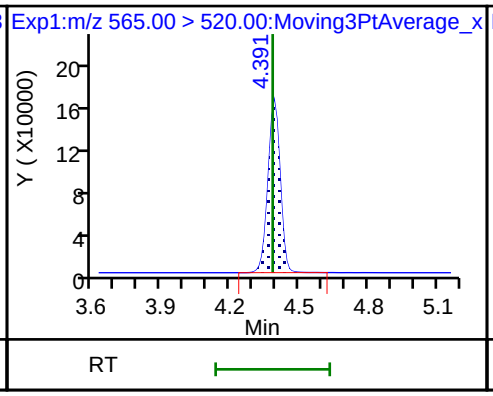
29 Perfluorodecanesulfonic acid



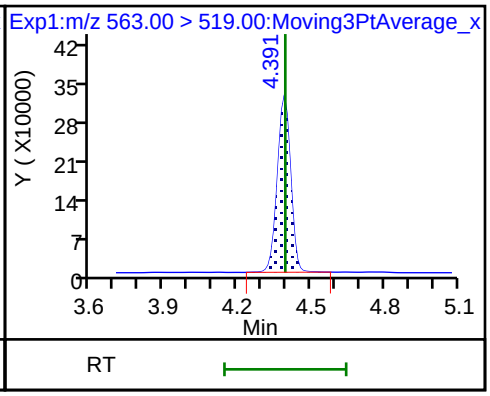
29 Perfluorodecanesulfonic acid



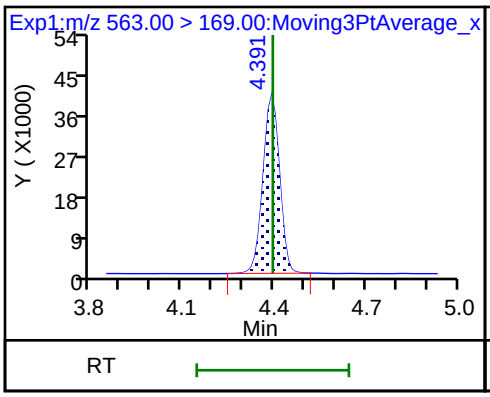
D 30 13C2 PFUnA



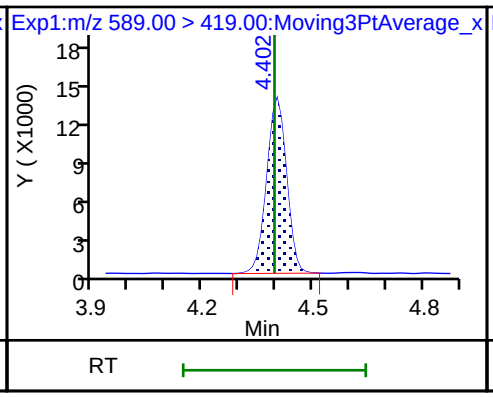
31 Perfluoroundecanoic acid



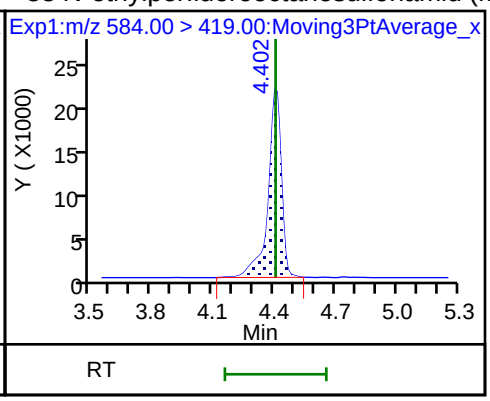
31 Perfluoroundecanoic acid



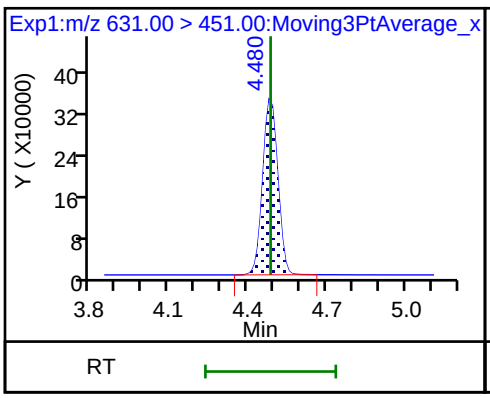
D 32 d5-NEtFOSAA



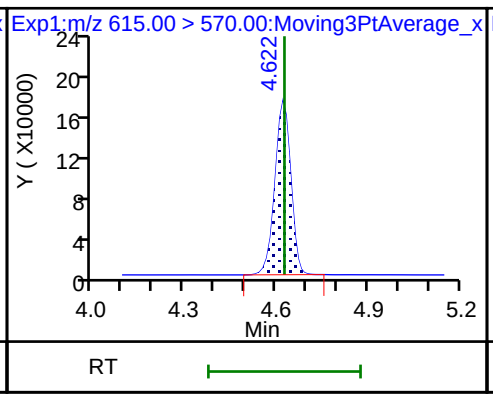
33 N-ethylperfluorooctanesulfonamid (M)



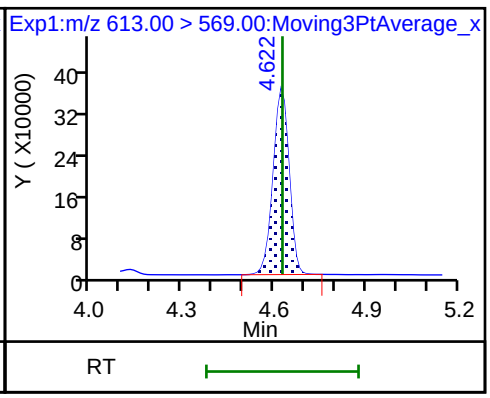
66 11-Chloroeicosafluoro-3-oxaundec



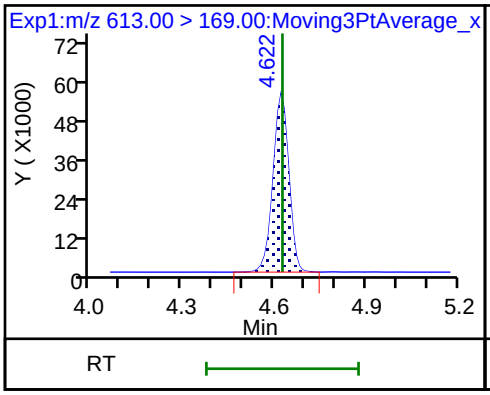
D 36 13C2 PFDoA



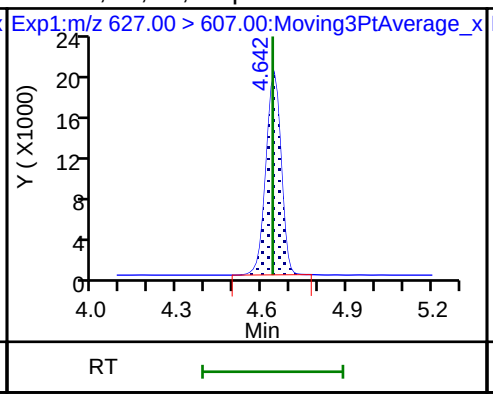
37 Perfluorododecanoic acid



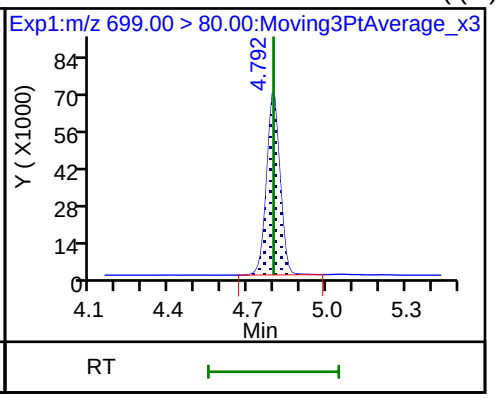
37 Perfluorododecanoic acid



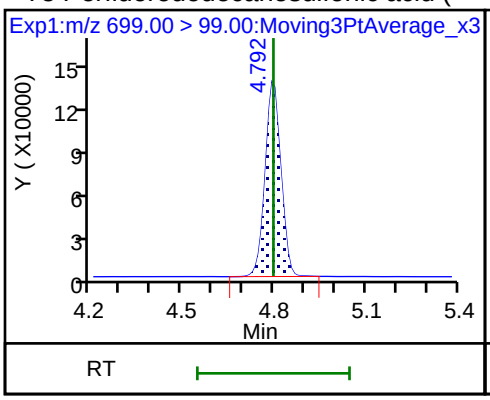
74 1H,1H,2H,2H-perfluorododecanesul



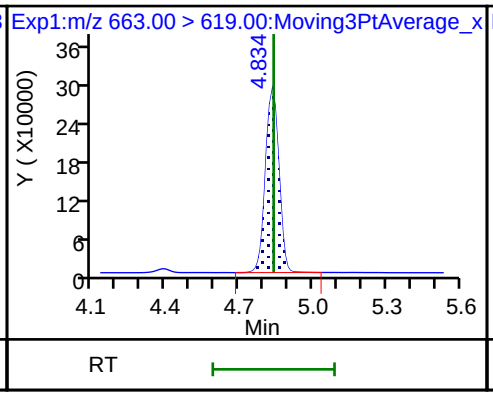
75 Perfluorododecanesulfonic acid ((M)



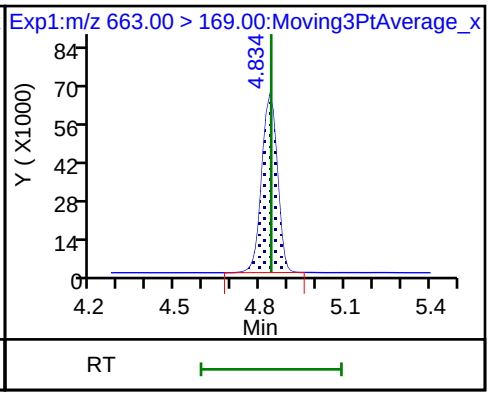
75 Perfluorododecanesulfonic acid (



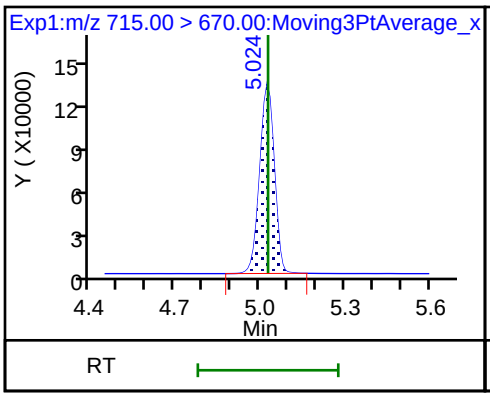
41 Perfluorotridecanoic acid



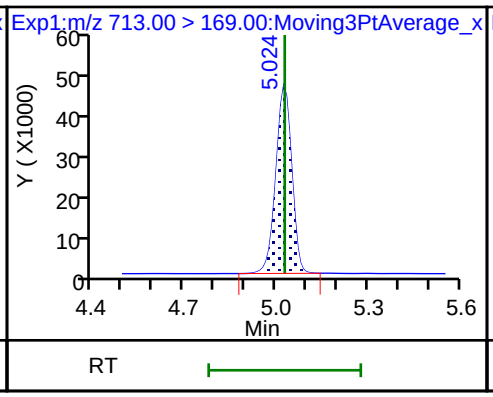
41 Perfluorotridecanoic acid



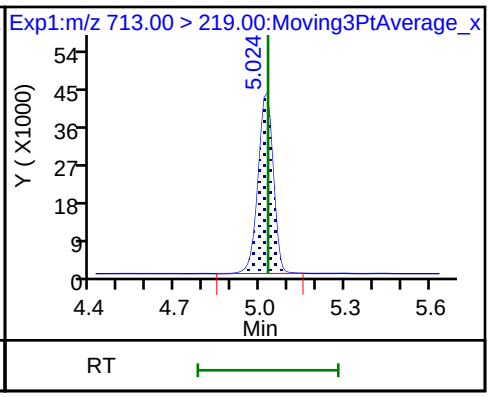
D 43 13C2 PFTeDA



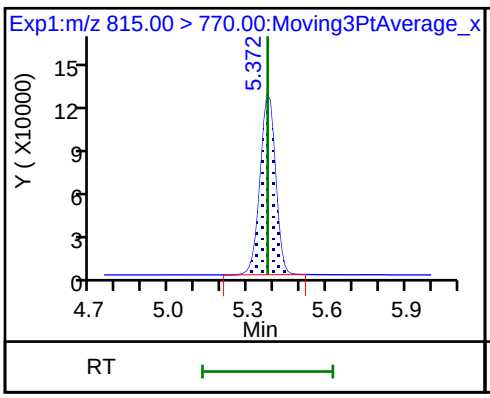
42 Perfluorotetradecanoic acid



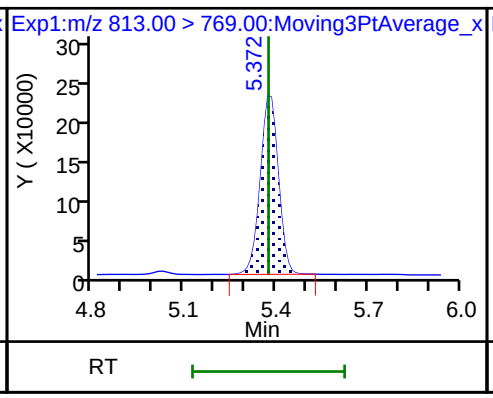
42 Perfluorotetradecanoic acid



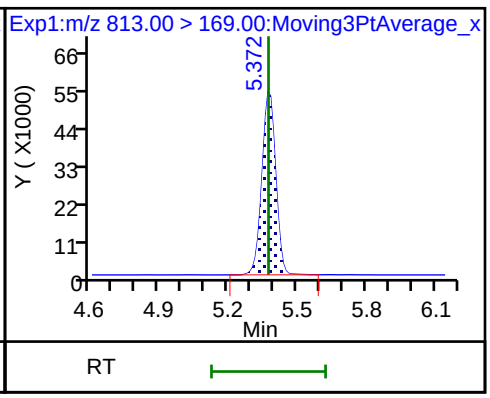
D 44 13C2 PFHxDA



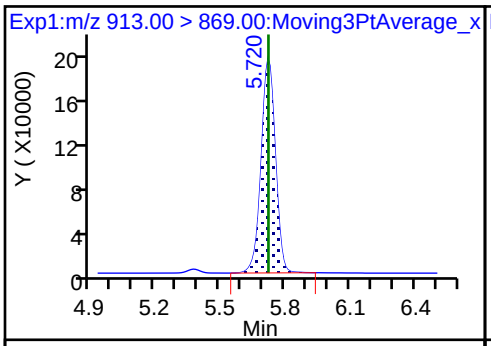
45 Perfluorohexadecanoic acid



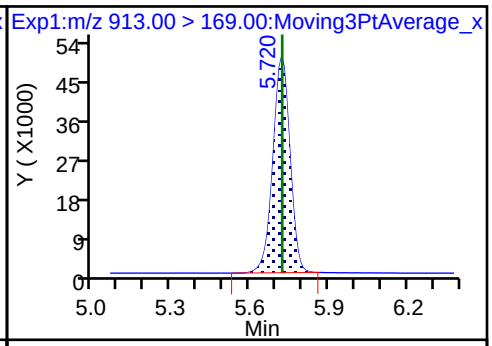
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

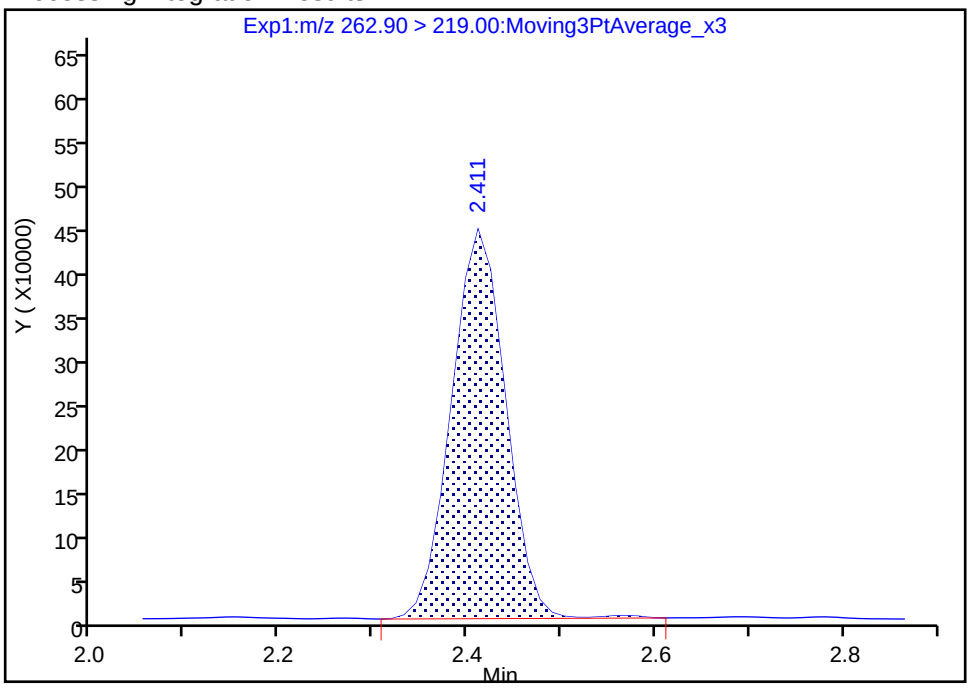
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL012.d				
Injection Date:	22-Dec-2020 13:21:21	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

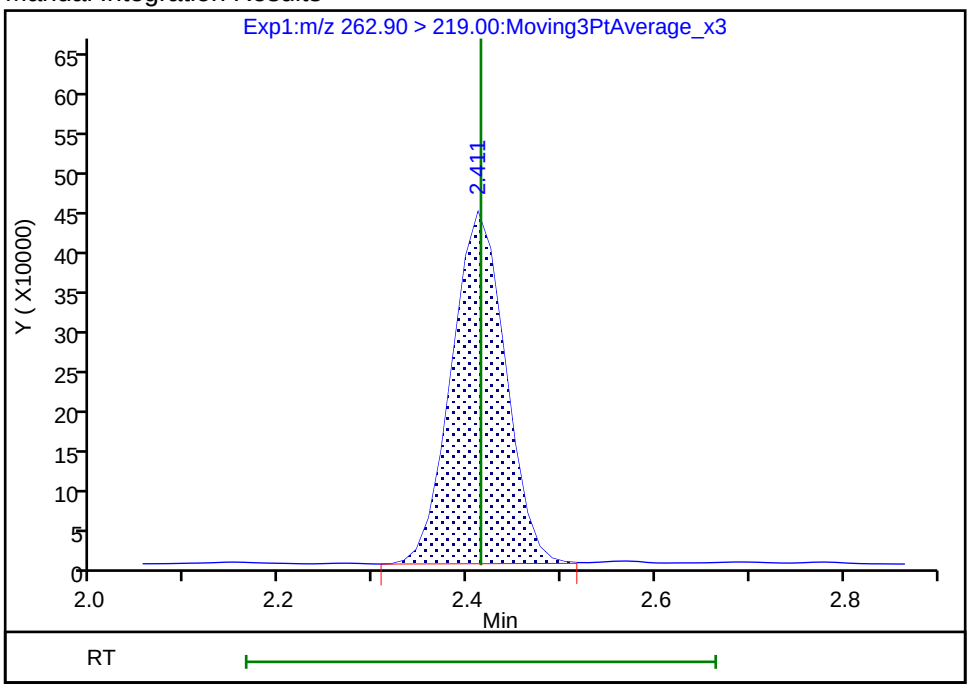
Processing Integration Results

RT: 2.41
Area: 1766120
Amount: 2.490698
Amount Units: ng/ml



Manual Integration Results

RT: 2.41
Area: 1757757
Amount: 2.333733
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:06:49
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

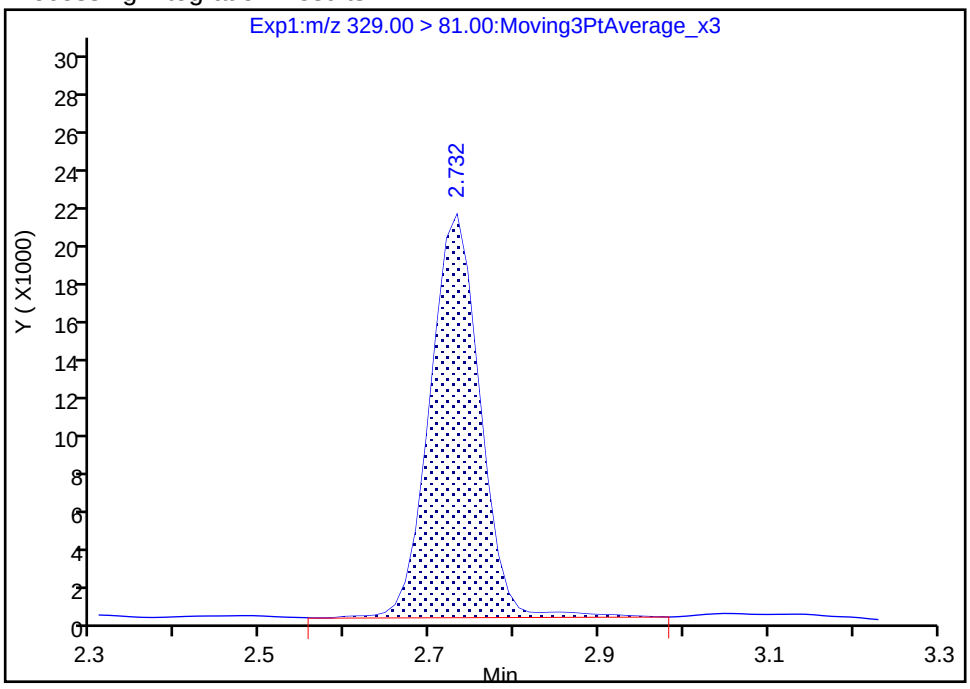
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL012.d				
Injection Date:	22-Dec-2020 13:21:21	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

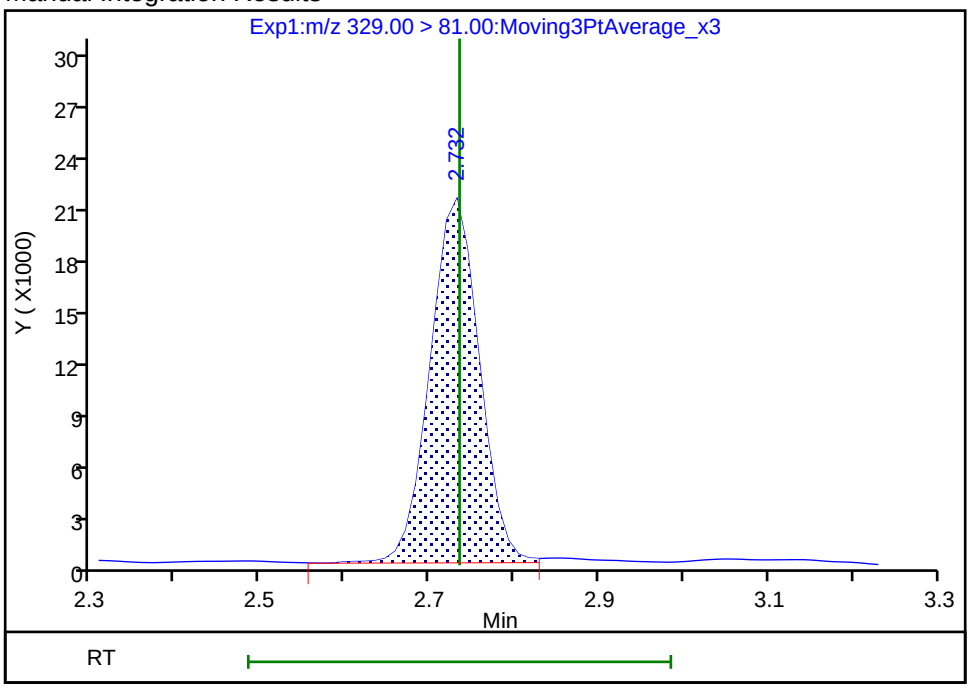
Processing Integration Results

RT: 2.73
Area: 86251
Amount: 1.130555
Amount Units: ng/ml



Manual Integration Results

RT: 2.73
Area: 85003
Amount: 1.116805
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:06:38
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

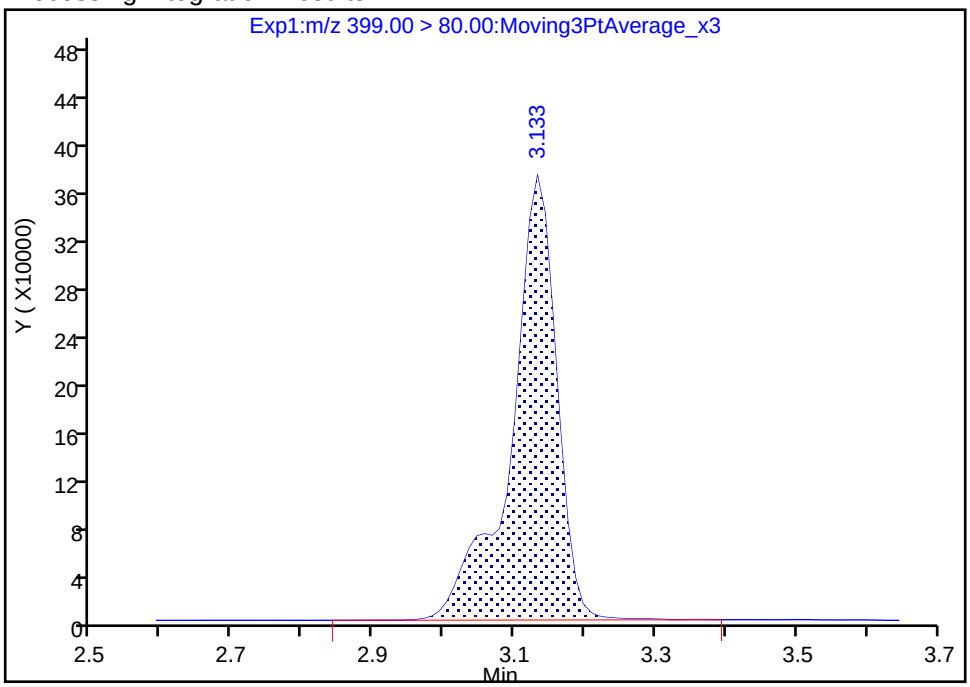
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL012.d				
Injection Date:	22-Dec-2020 13:21:21	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

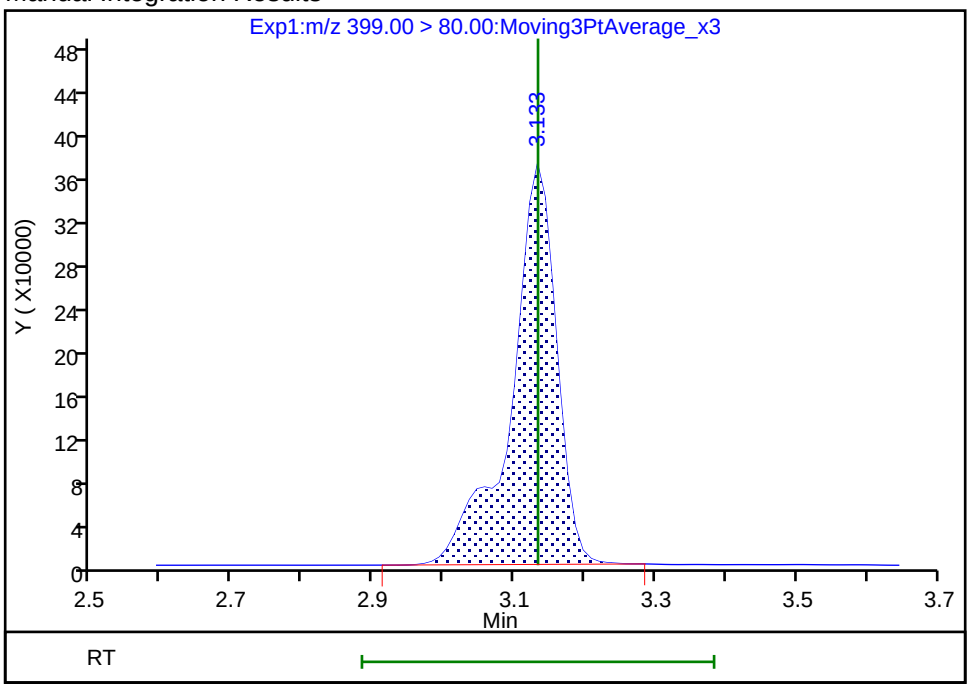
Processing Integration Results

RT: 3.13
Area: 1661072
Amount: 2.263574
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 1650425
Amount: 2.083671
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:06:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

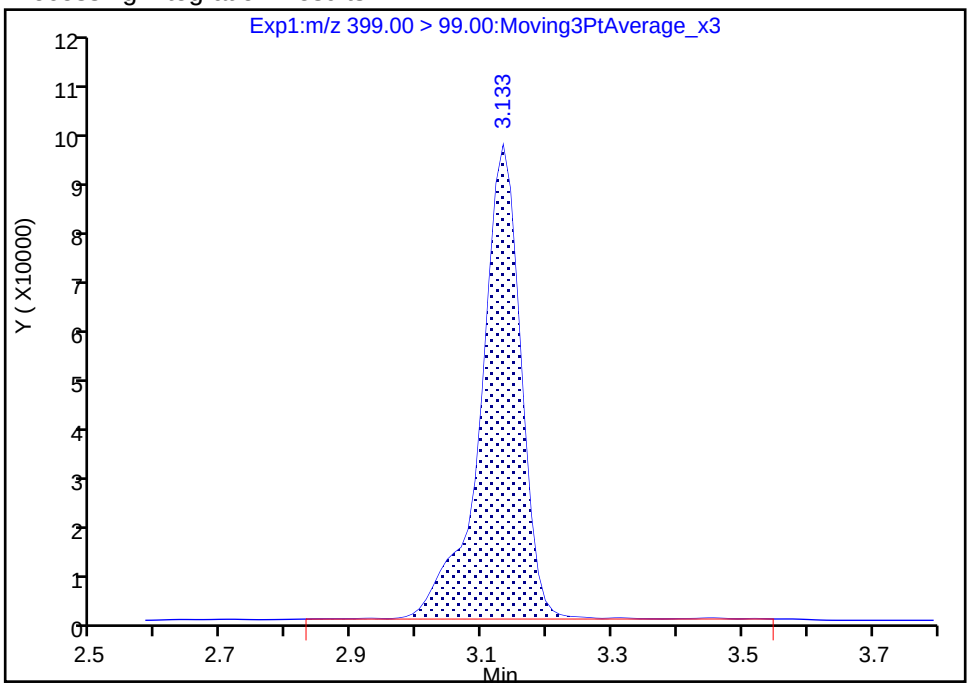
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL012.d				
Injection Date:	22-Dec-2020 13:21:21	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

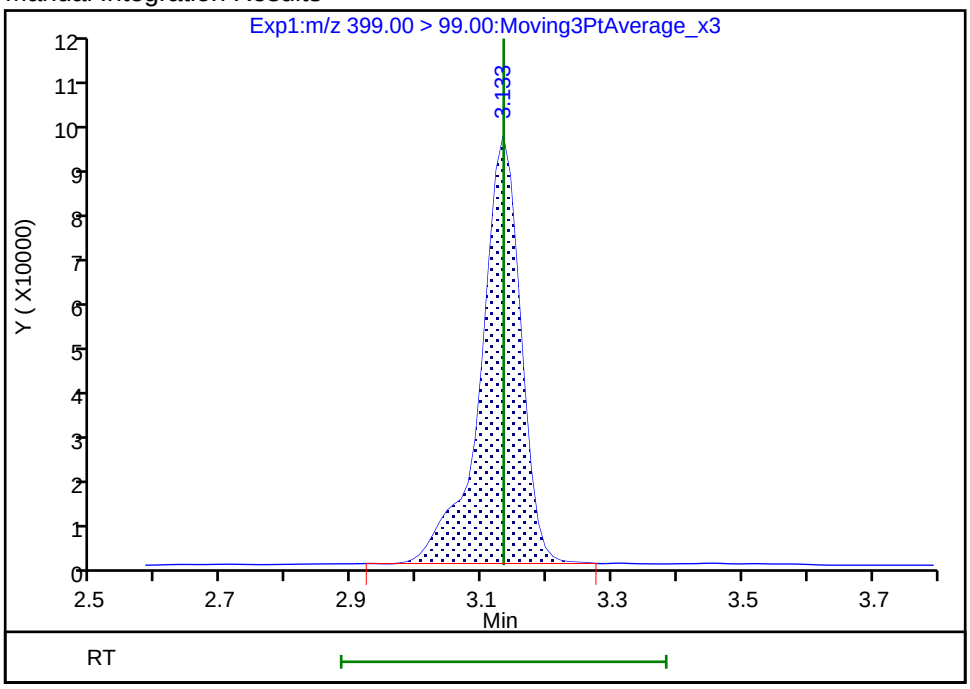
Processing Integration Results

RT: 3.13
Area: 407785
Amount: 2.263574
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 403565
Amount: 2.083671
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:06:25

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

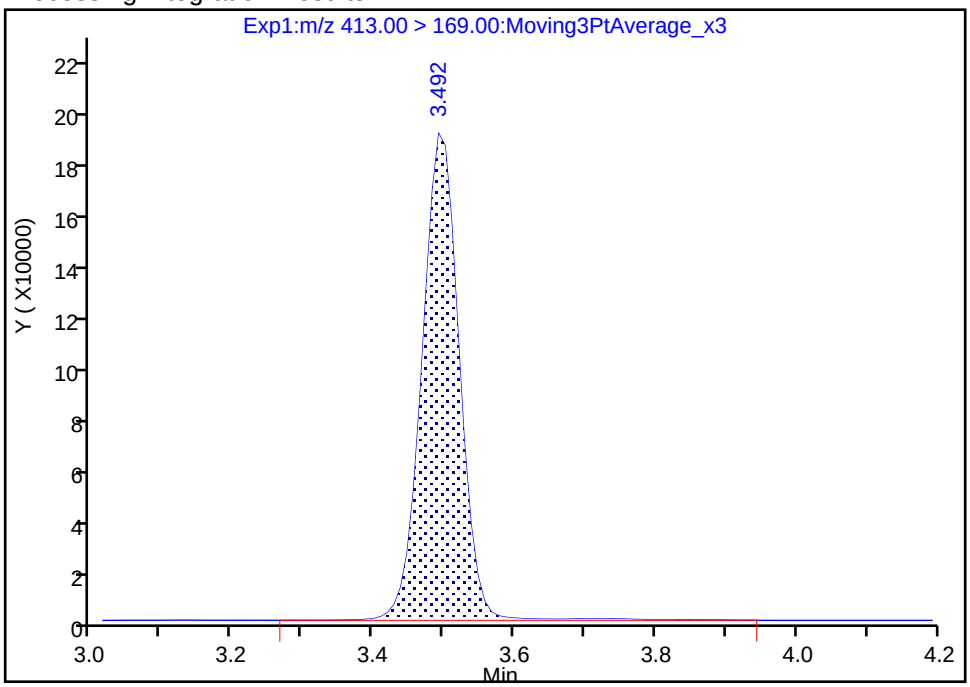
Data File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL012.d
Injection Date: 22-Dec-2020 13:21:21 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

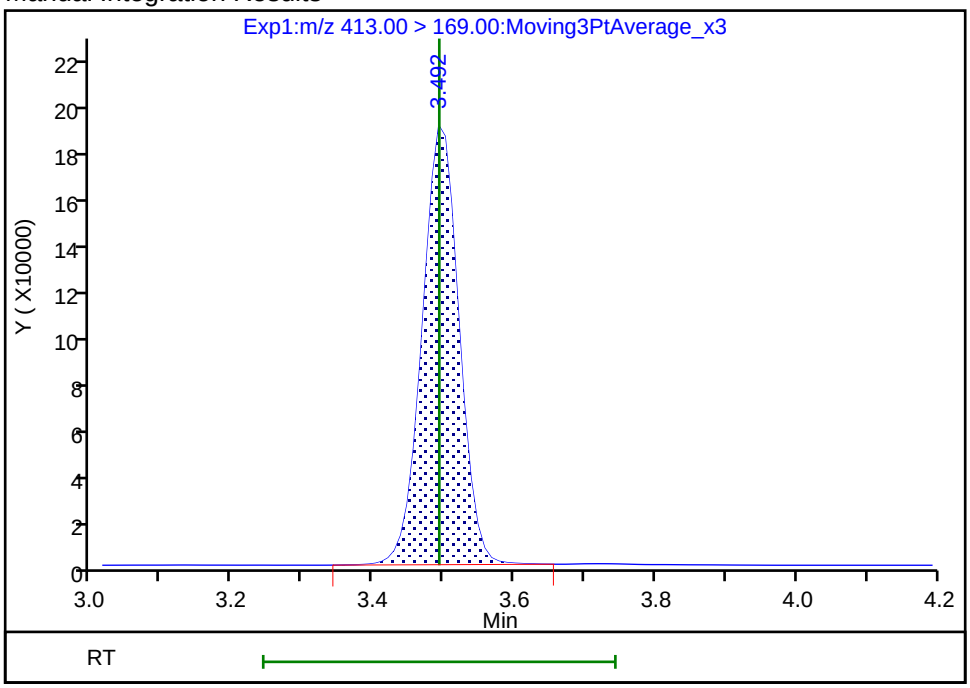
Processing Integration Results

RT: 3.49
Area: 699967
Amount: 2.406684
Amount Units: ng/ml



Manual Integration Results

RT: 3.49
Area: 690547
Amount: 2.375772
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:06:07
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

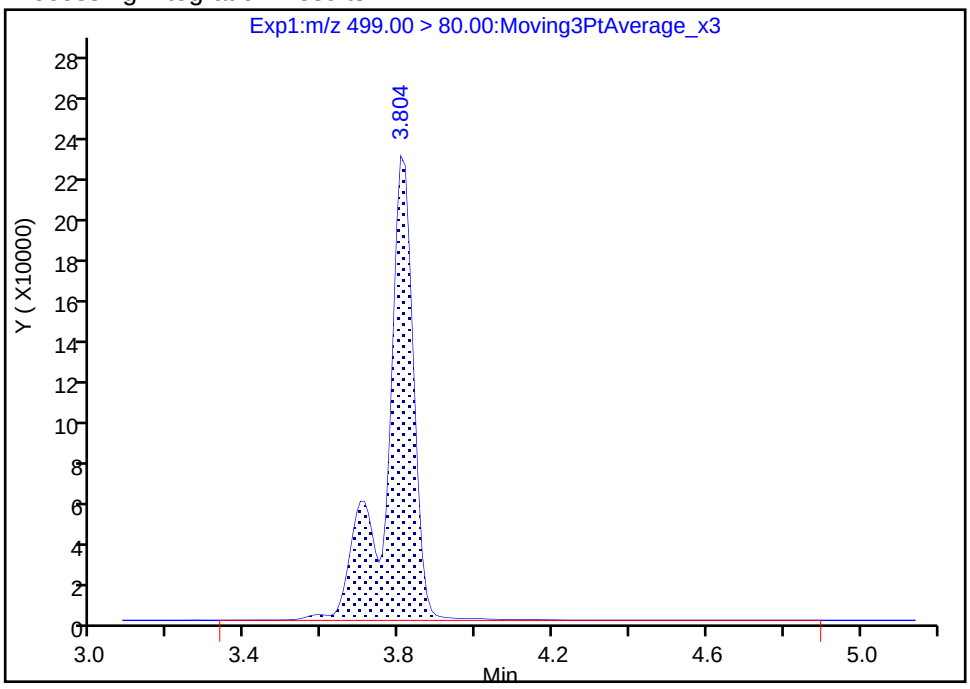
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL012.d				
Injection Date:	22-Dec-2020 13:21:21	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

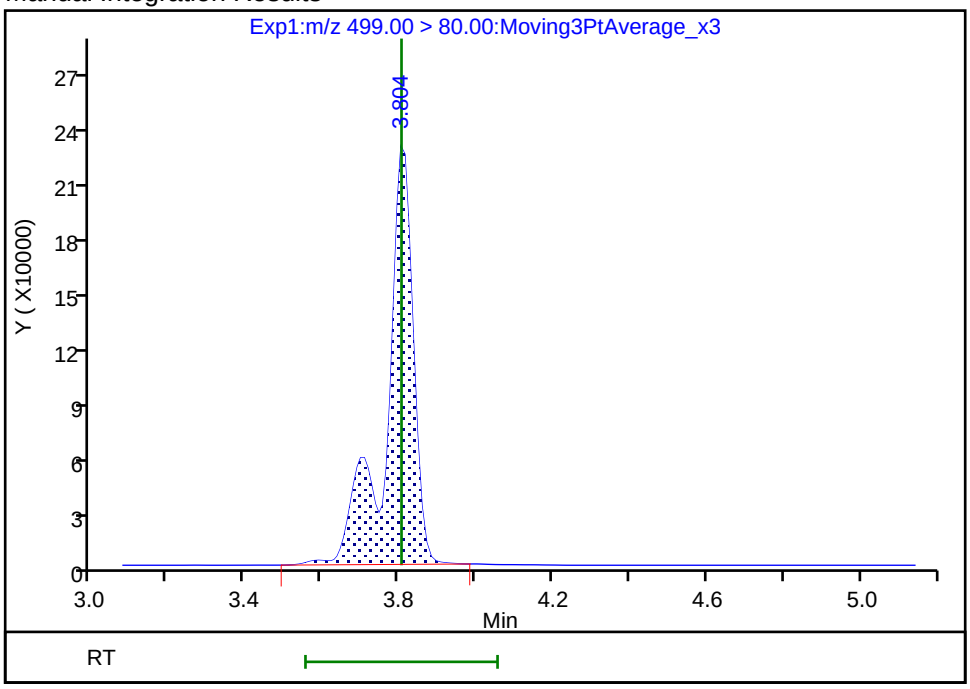
Processing Integration Results

RT: 3.80
Area: 1131058
Amount: 2.338355
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 1114751
Amount: 2.187617
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:05:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

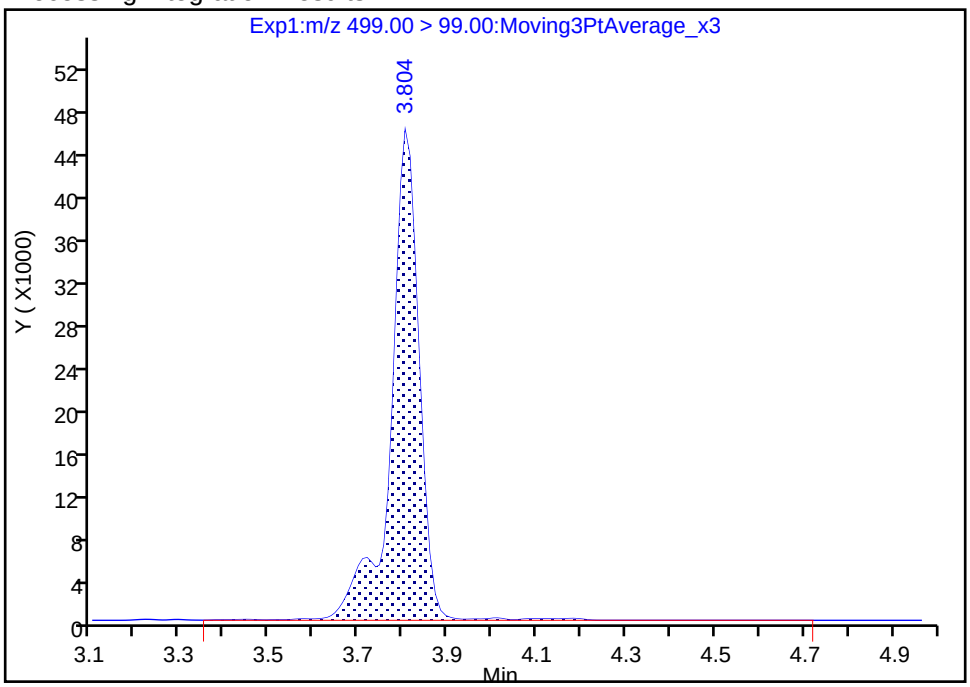
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL012.d				
Injection Date:	22-Dec-2020 13:21:21	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

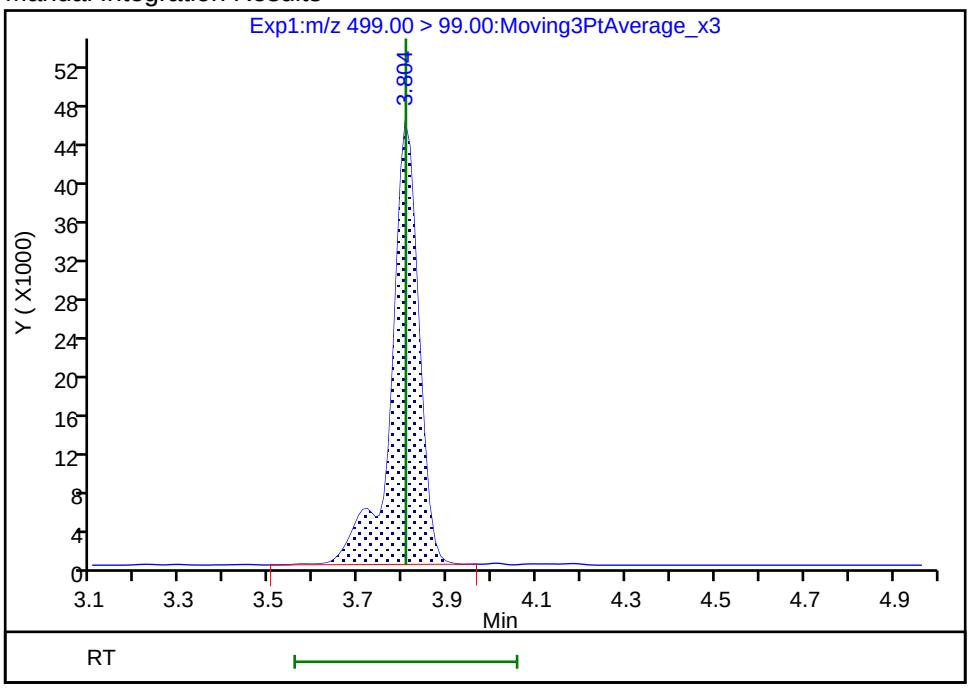
Processing Integration Results

RT: 3.80
Area: 202581
Amount: 2.338355
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 198425
Amount: 2.187617
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:05:58

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

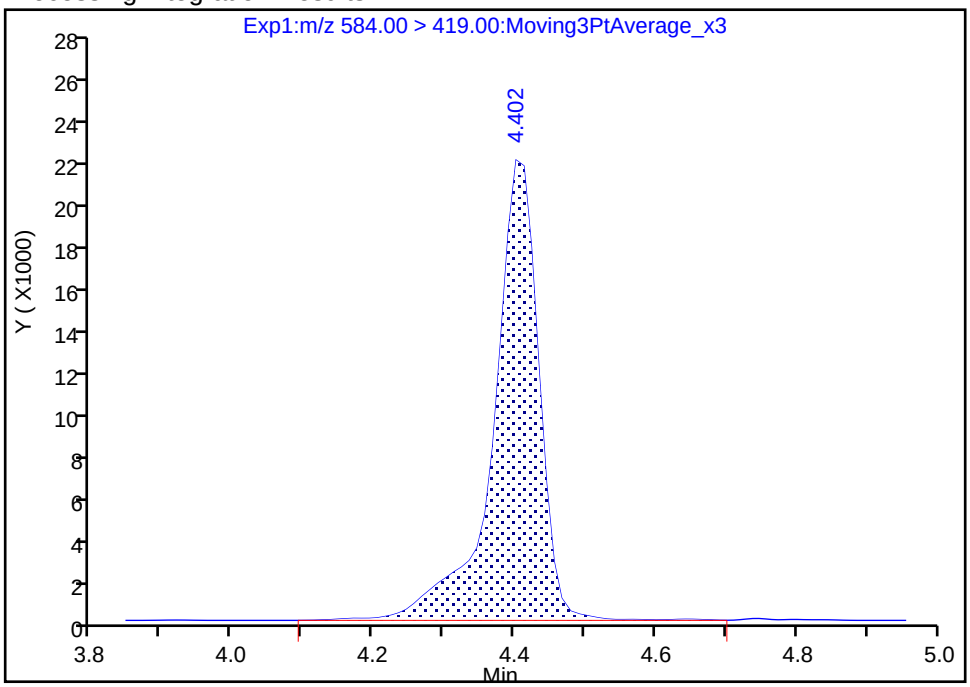
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL012.d				
Injection Date:	22-Dec-2020 13:21:21	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

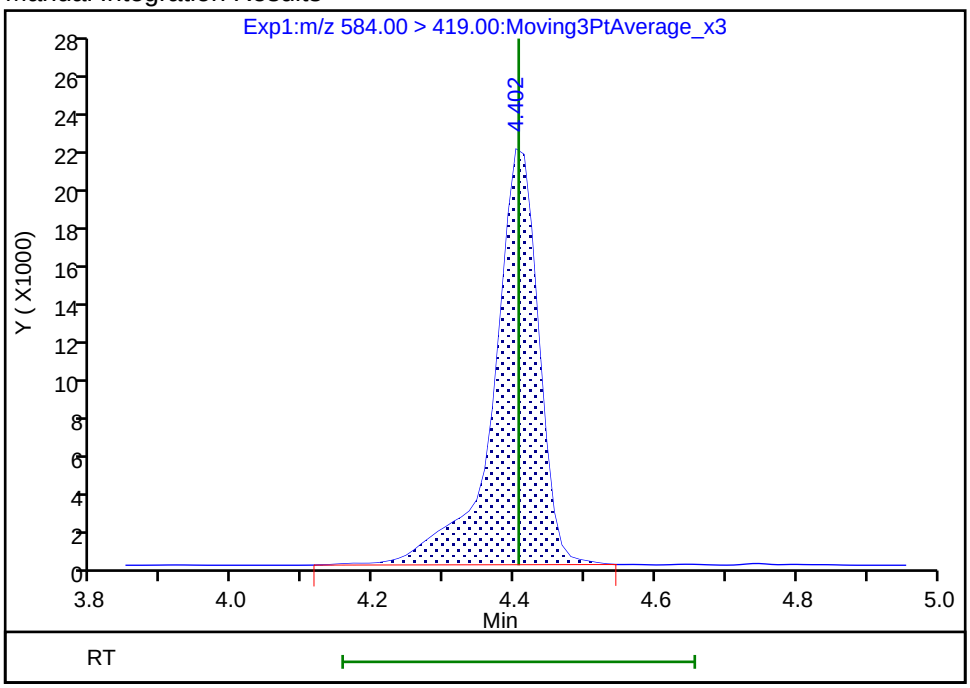
Processing Integration Results

RT: 4.40
Area: 96935
Amount: 2.773055
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 96074
Amount: 2.595879
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:05:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

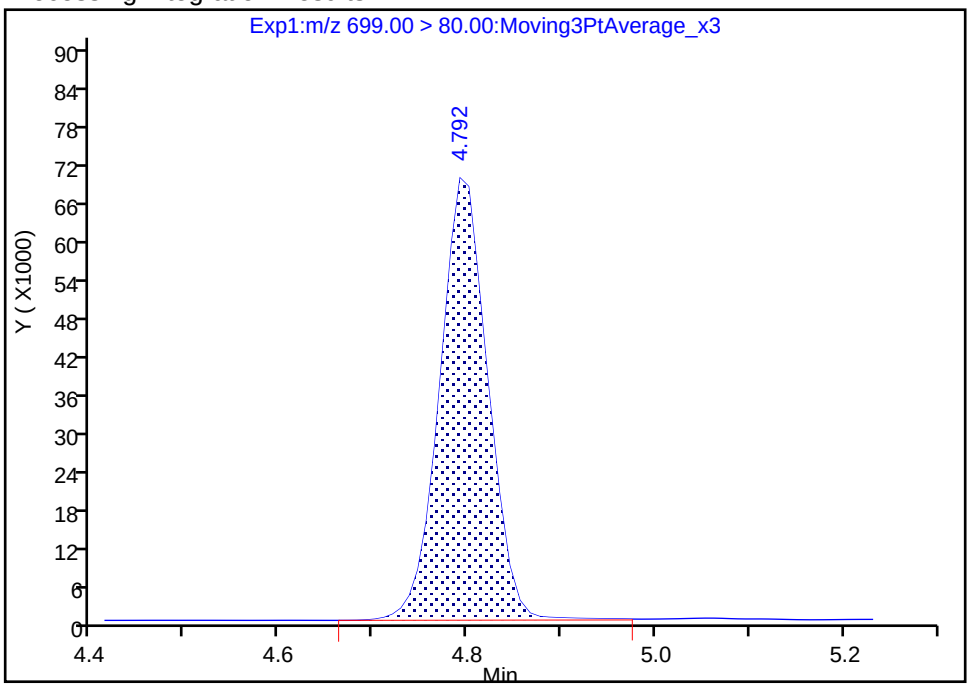
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL012.d				
Injection Date:	22-Dec-2020 13:21:21	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 1

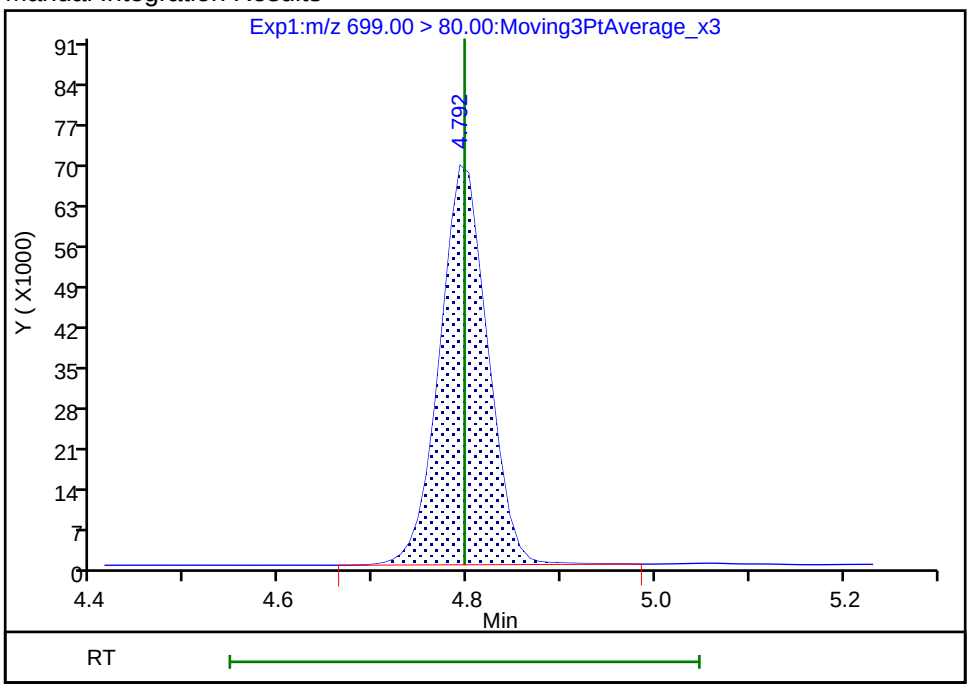
Processing Integration Results

RT: 4.79
Area: 245955
Amount: 2.200561
Amount Units: ng/ml



Manual Integration Results

RT: 4.79
Area: 244860
Amount: 2.195792
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:28:22
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 22-Dec-2020 13:29:37 ALS Bottle#: 7 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 200-0044184-013 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812
Sublist: chrom-PFC_LC812*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 22-Dec-2020 14:39:38 Calib Date: 22-Dec-2020 13:29:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1625

First Level Reviewer: deannd Date: 22-Dec-2020 14:04:56
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.089	2.091	-0.002	0.598	1192876	1.30		104	9158	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.089	2.091	-0.002	1.000	8790651	9.19		91.9	1191	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.411	2.414	-0.003	0.690	847223	1.28		102	2699	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.411	2.414	-0.003	1.000	7036279	9.38		93.8	265	
D 47 13C3 PFBS										
301.90 > 80.00	2.424	2.427	-0.003	0.694	1066974	1.23		105	392285	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.424	2.427	-0.003	1.000	8770776	8.45	Target=2.21	95.6	5300	M
298.90 > 99.00	2.424	2.427	-0.003	1.000	3982557		2.20(1.10-3.31)	95.6	2595	M
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.732	2.735	-0.003	1.000	1254443	9.07		97.1	2421	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.732	2.735	-0.003	0.782	88021	1.21		104	101	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.768	2.771	-0.003	0.793	866171	1.25		100.0	3139	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.768	2.771	-0.003	1.000	7316861	9.67	Target=12.17	96.7	1318	M
313.00 > 119.00	2.768	2.771	-0.003	1.000	600272		12.19(6.09-18.26)	96.7	839	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.768	2.771	-0.003	0.884	8114898	9.12	Target=3.32	97.2	3936	M
349.00 > 99.00	2.768	2.771	-0.003	0.884	2455035		3.31(1.66-4.98)	97.2	2029	M
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.878	2.881	-0.003	1.000	1690983	10.9		109	180	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.878	2.881	-0.003	0.824	139707	1.14		91.6	855	
D 11 18O2 PFHxS										
403.00 > 84.00	3.132	3.133	-0.001	0.897	801639	1.24		105	3223	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.132	3.133	-0.001	1.000	6676661	8.36	Target=4.08	91.8	1824	M
399.00 > 99.00	3.132	3.133	-0.001	1.000	1631116		4.09(2.04-6.11)	91.8	1026	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.132	3.133	-0.001	0.897	866766	1.31		104	2235	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.132	3.133	-0.001	1.000	6968995	9.20	Target=3.70	92.0	1254	
363.00 > 169.00	3.132	3.133	-0.001	1.000	1961292		3.55(1.85-5.56)	92.0	2662	
77 DONA										M
377.00 > 251.00	3.175	3.176	-0.001	0.835	13928638	9.00	Target=2.47	95.5	4514	M
377.00 > 85.00	3.175	3.176	-0.001	0.835	5802950		2.40(1.23-3.70)	95.5	2592	M
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.483	3.484	-0.001	0.916	5572962	8.93	Target=5.85	93.8	3244	M
449.00 > 99.00	3.483	3.484	-0.001	0.916	965141		5.77(2.93-8.78)	93.8	2810	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.483	3.484	-0.001	0.997	96331	1.19		100	384	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.483	3.484	-0.001	1.000	854196	9.47		99.9	1820	M
D 14 13C4 PFOA										
417.00 > 372.00	3.492	3.493	-0.001	1.000	839703	1.25		99.7	2870	
* 62 13C2 PFOA										
415.00 > 370.00	3.492	3.493	-0.001		851453	1.25			3240	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.492	3.493	-0.001	1.000	7252703	9.96	Target=2.58	99.6	1101	M
413.00 > 169.00	3.492	3.493	-0.001	1.000	2794731		2.60(1.29-3.87)	99.6	2212	M
D 18 13C4 PFOS										
503.00 > 80.00	3.804	3.806	-0.002	1.089	552420	1.24		104	894	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.804	3.806	-0.002	1.000	4659375	8.76	Target=5.56	94.4	3431	M
499.00 > 99.00	3.804	3.806	-0.002	1.000	828174		5.63(2.78-8.34)	94.4	1717	M
D 19 13C5 PFNA										
468.00 > 423.00	3.825	3.826	-0.001	1.095	738168	1.24		99.3	3598	
20 Perfluorononanoic acid										
463.00 > 419.00	3.825	3.826	-0.001	1.000	6204125	9.49	Target=6.87	94.9	920	
463.00 > 169.00	3.825	3.826	-0.001	1.000	903137		6.87(3.43-10.30)	94.9	3042	
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.964	3.967	-0.003	1.042	5263362	8.87		95.2	5275	M
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.093	4.095	-0.002	1.076	3577811	9.02	Target=2.78	94.0	11373	
549.00 > 99.00	4.093	4.095	-0.002	1.076	1313064		2.72(1.39-4.17)	94.0	3473	
D 23 13C2 PFDA										
515.00 > 470.00	4.126	4.129	-0.003	1.182	699346	1.23		98.4	3511	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.126	4.129	-0.003	1.000	5664507	9.82	Target=9.03	98.2	2648	
513.00 > 169.00	4.126	4.129	-0.003	1.000	633903		8.94(4.51-13.54)	98.2	3241	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.138	4.140	-0.002	1.000	551191	9.19		95.9	3136	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.138	4.140	-0.002	1.185	105624	1.27		106	519	
D 21 13C8 FOSA										
506.00 > 78.00	4.205	4.207	-0.002	1.204	1111429	1.33		106	3985	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.215	4.207	0.008	1.002	8663983	9.72		97.2	4787	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.268	4.272	-0.004	1.222	52838	1.28		103	18.4	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.268	4.272	-0.004	1.000	390016	10.4		104	632	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.358	4.362	-0.004	1.146	2896712	9.16	Target=2.76	95.0	3660	
599.00 > 99.00	4.358	4.362	-0.004	1.146	1043601		2.78(1.38-4.14)	95.0	2448	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.391	4.384	0.007	1.257	589898	1.26		101	2327	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.391	4.395	-0.004	1.000	4701521	9.77	Target=8.02	97.7	1491	
563.00 > 169.00	4.391	4.395	-0.004	1.000	566462		8.30(4.01-12.03)	97.7	4044	
D 32 d5-NEtFOSAA										M
589.00 > 419.00	4.402	4.395	0.007	1.261	52405	1.31		105	495	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.402	4.406	-0.004	1.000	355914	9.17		91.7	1454	M
66 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.480	4.485	-0.005	1.178	5616158	9.12		96.9	3009	
D 36 13C2 PFDoA										
615.00 > 570.00	4.622	4.626	-0.004	1.323	631964	1.28		103	3397	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.622	4.626	-0.004	1.000	5514700	9.92	Target=6.85	99.2	1136	
613.00 > 169.00	4.622	4.626	-0.004	1.000	787613		7.00(3.42-10.27)	99.2	3121	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.643	4.637	0.006	1.122	297521	9.63		99.9	2455	
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.792	4.797	-0.005	1.260	1019532	8.76	Target=0.53	90.5	1881	M
699.00 > 99.00	4.792	4.797	-0.005	1.260	2048689		0.50(0.26-0.79)	90.5	4378	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.834	4.839	-0.005	1.046	4302065	9.53	Target=4.48	95.3	1238	
663.00 > 169.00	4.834	4.839	-0.005	1.046	944848		4.55(2.24-6.72)	95.3	2957	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.024	5.027	-0.003	1.439	471704	1.29		103	2620	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.024	5.027	-0.003	1.000	657979	9.40	Target=0.99	94.0	4514	
713.00 > 219.00	5.024	5.027	-0.003	1.000	661054		1.00(0.50-1.49)	94.0	4489	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.372	5.374	-0.002	1.538	502634	1.29		103	1958	
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.383	5.374	0.009	1.002	3749492	10.0	Target=4.02	100.0	831	M
813.00 > 169.00	5.372	5.374	-0.002	1.000	935182		4.01(2.01-6.02)	100.0	2911	M
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.720	5.722	-0.002	1.065	3647983	10.1	Target=3.88	101	1290	
913.00 > 169.00	5.720	5.722	-0.002	1.065	937246		3.89(1.94-5.82)	101	1904	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC6_00006 Amount Added: 100.00 Units: uL

Report Date: 22-Dec-2020 14:39:38 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d

Injection Date: 22-Dec-2020 13:29:37 Instrument ID: LC812

Lims ID: IC

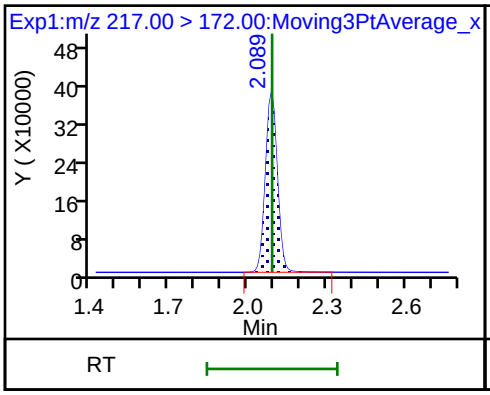
Client ID:

Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 13

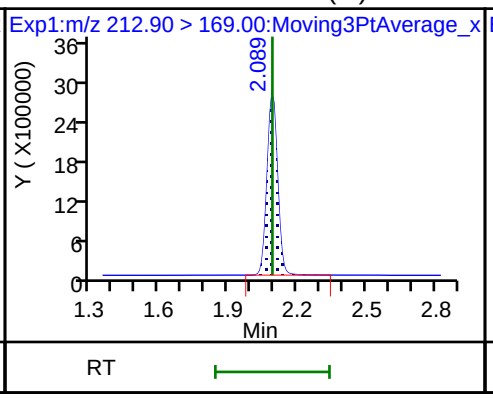
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

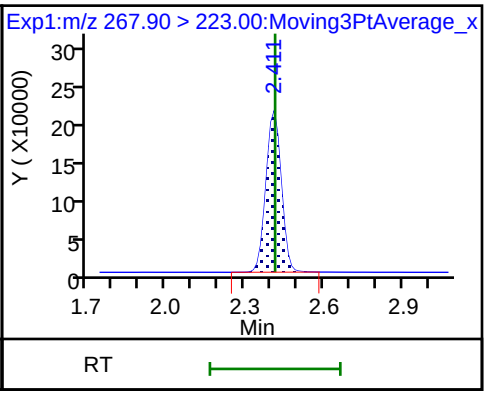
D 1 13C4 PFBA



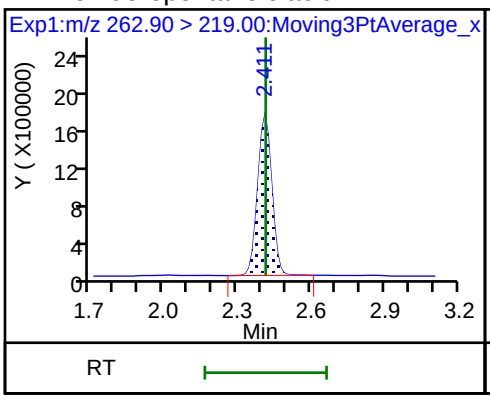
2 Perfluorobutanoic acid (M)



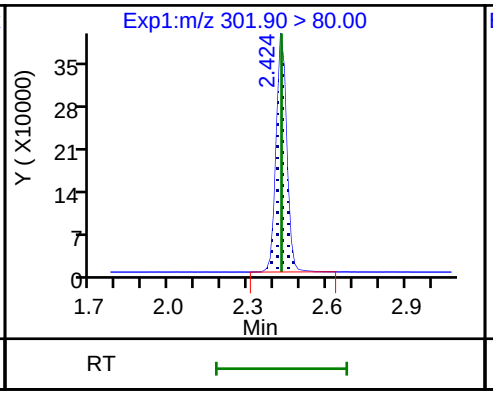
D 3 13C5 PFPeA



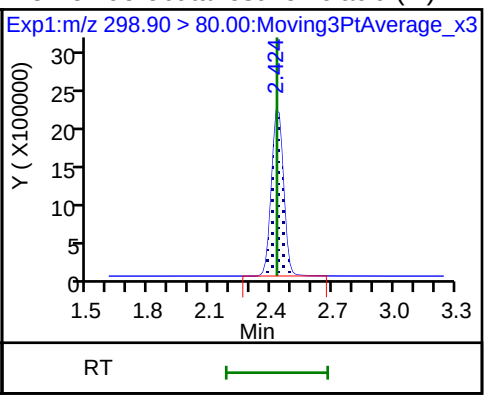
4 Perfluoropentanoic acid



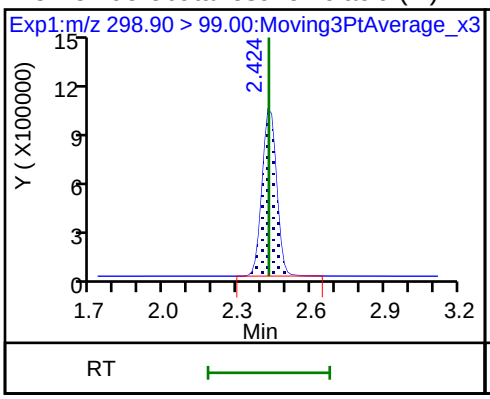
D 47 13C3 PFBS



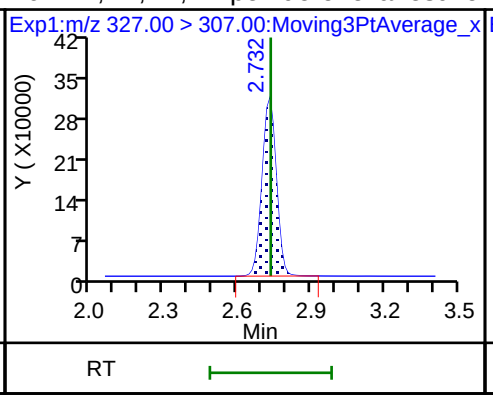
5 Perfluorobutanesulfonic acid (M)



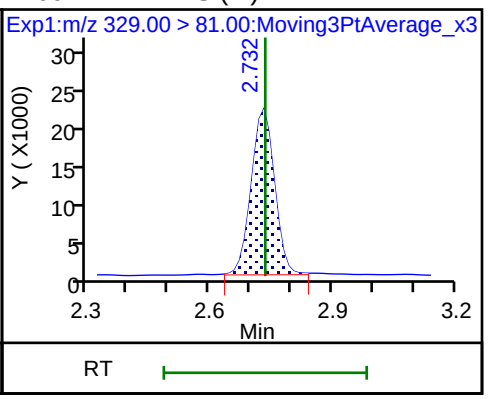
5 Perfluorobutanesulfonic acid (M)



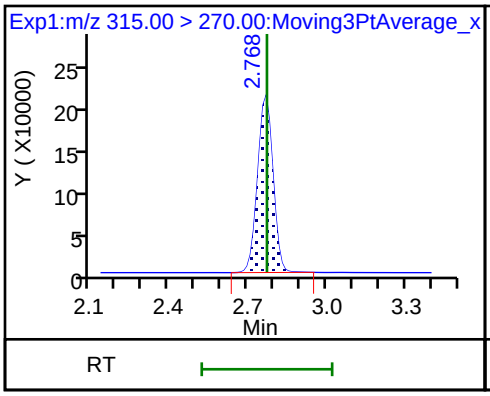
61 1H,1H,2H,2H-perfluorohexanesulfo



D 60 M2-4:2 FTS (M)



D 7 13C2 PFHxA



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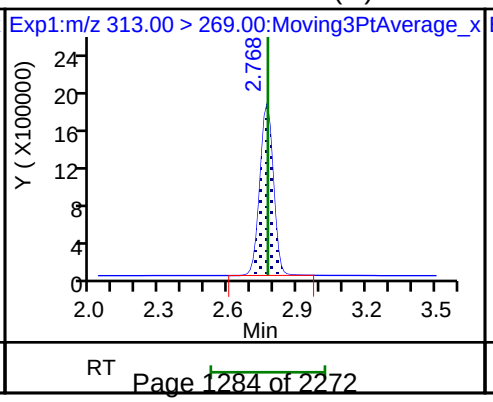
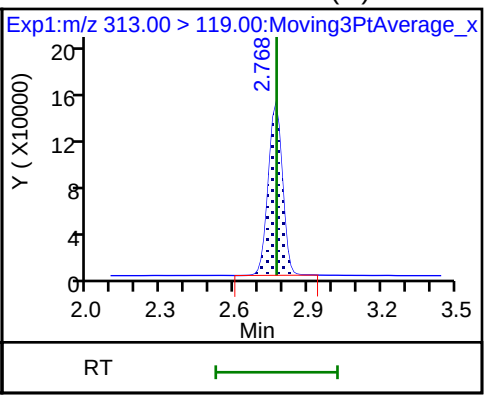
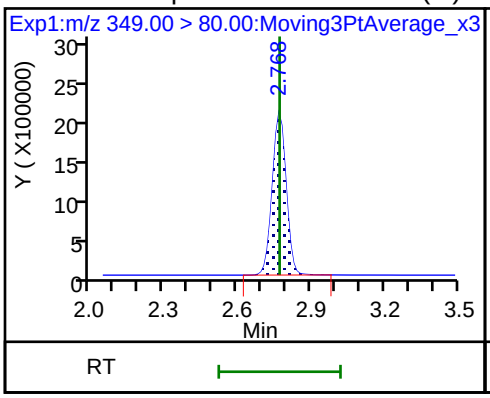


6 Perfluorohexanoic acid (M)



70 Perfluoropentanesulfonic acid (M)



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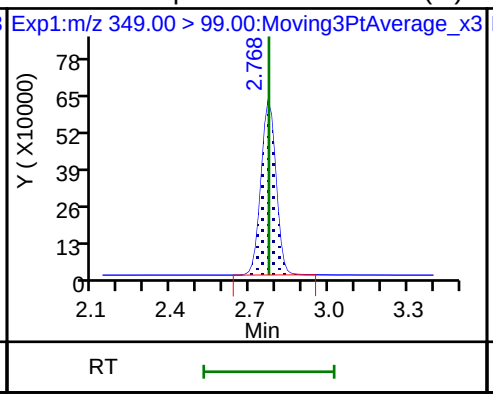
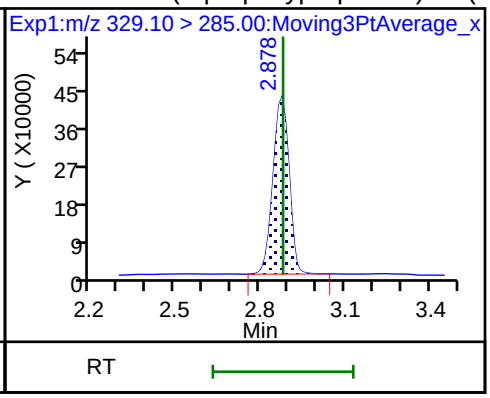
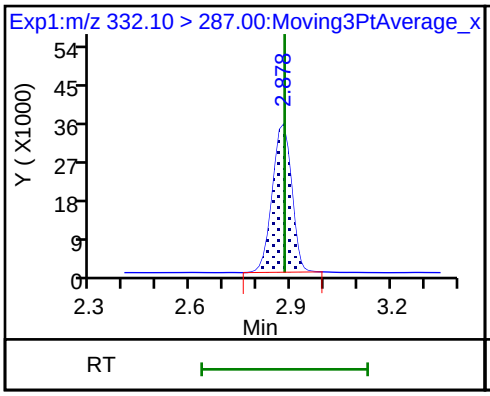


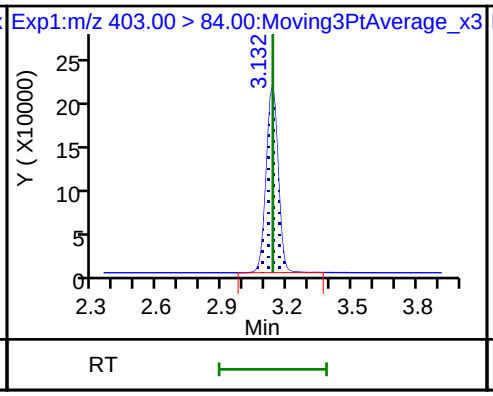
67 Perfluoro(2-propoxypropanoic) ac (M)



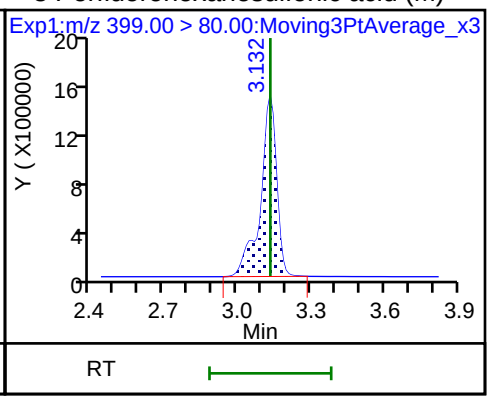
D 64 13C3 HFPO-DA



D 11 18O2 PFHxS



8 Perfluorohexanesulfonic acid (M)



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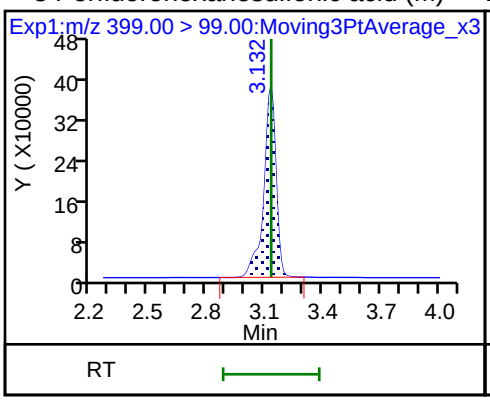
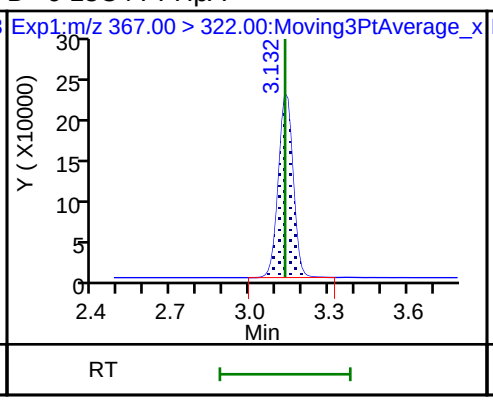
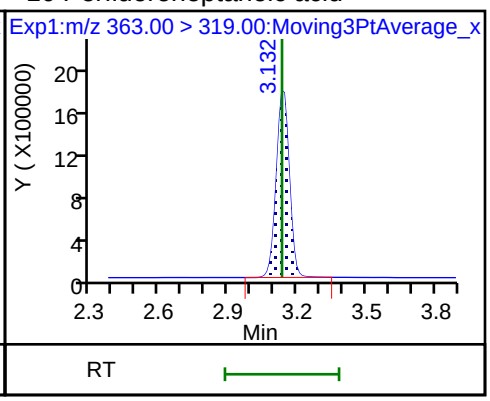


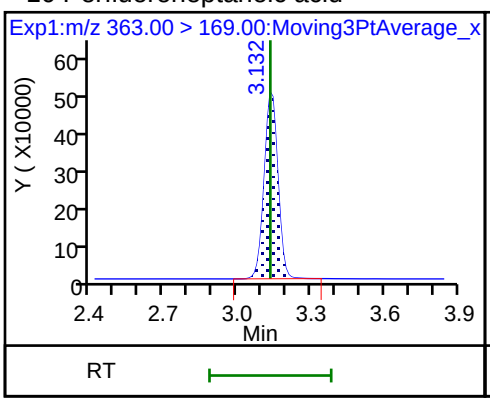
D 9 13C4 PFHpA



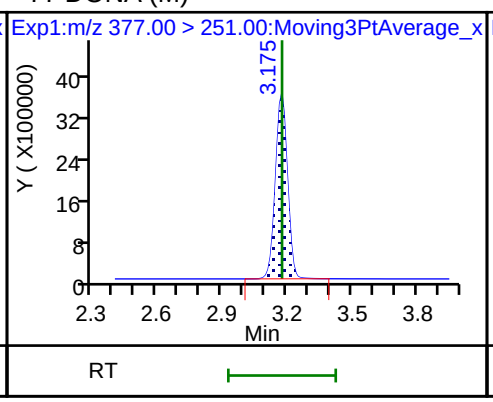
10 Perfluoroheptanoic acid



10 Perfluoroheptanoic acid



77 DONA (M)



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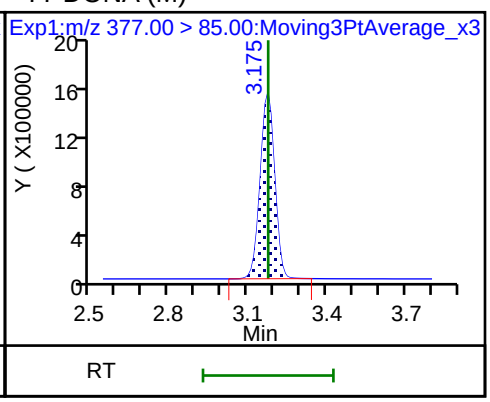
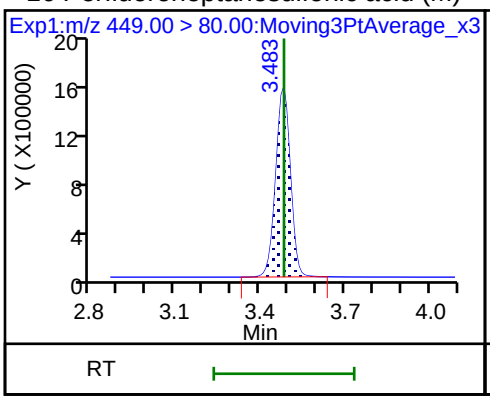


16 Perfluoroheptanesulfonic acid (M)



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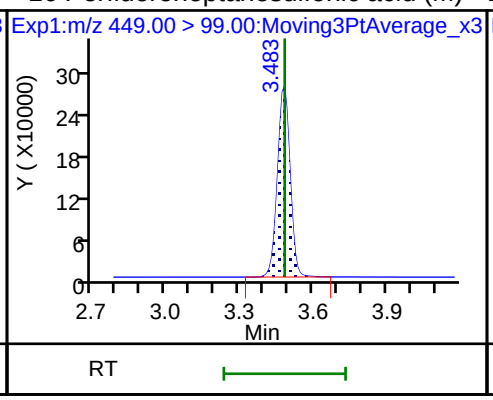
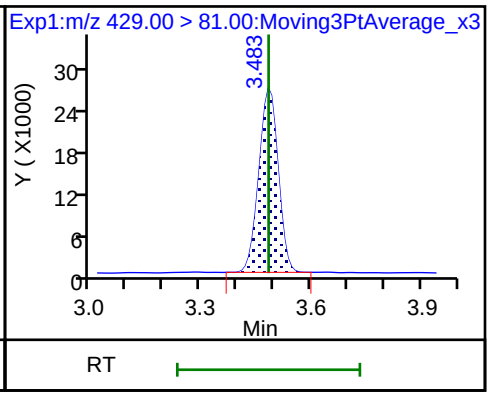
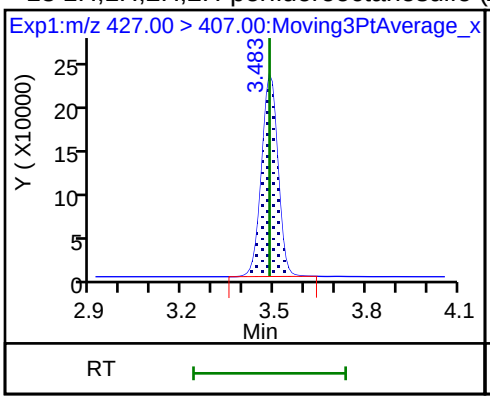


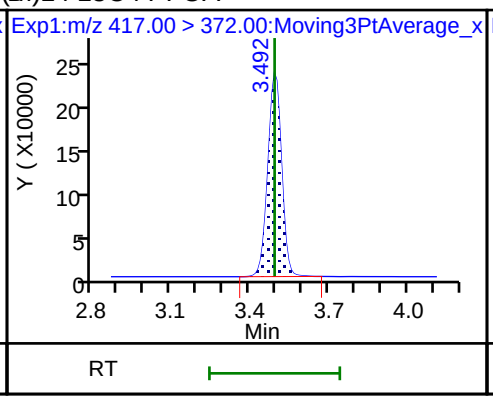
D 12 M2-6:2 FTS



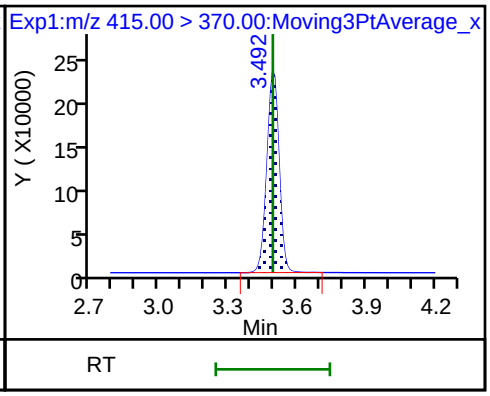
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



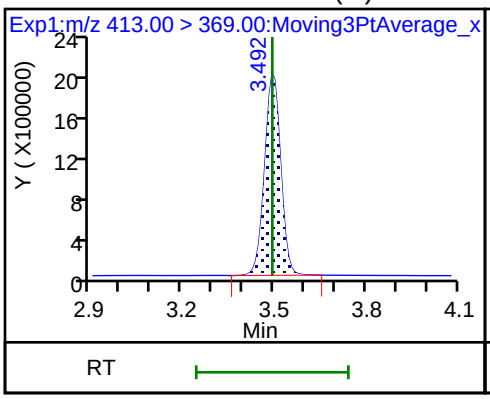
D 14 13C4 PFOA



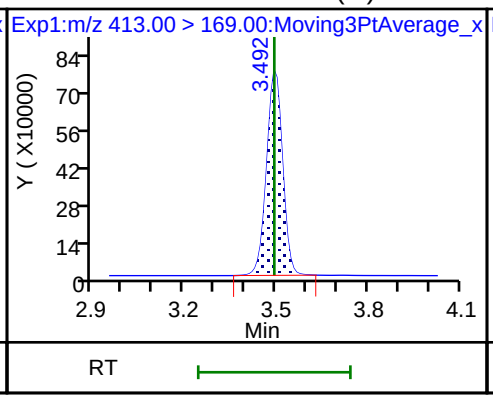
* 62 13C2 PFOA



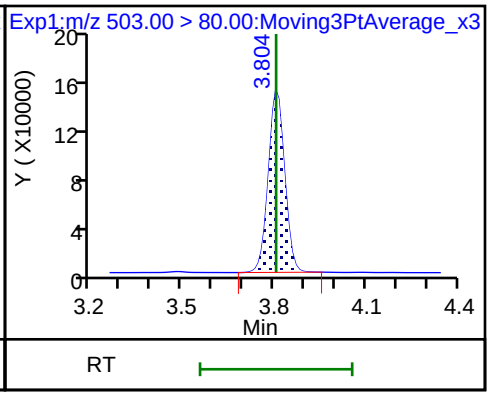
15 Perfluorooctanoic acid (M)



15 Perfluorooctanoic acid (M)



D 18 13C4 PFOS



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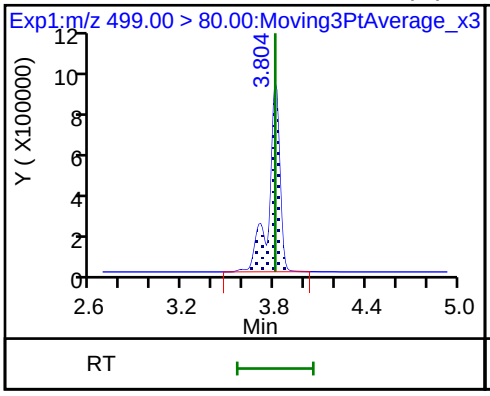

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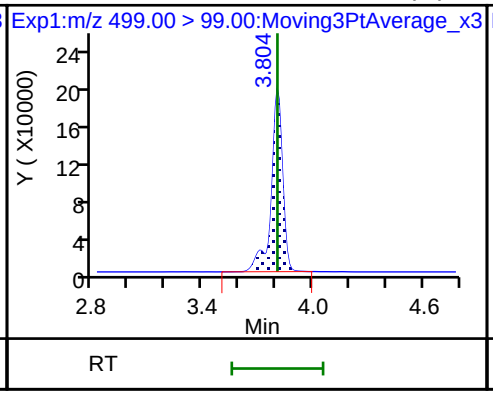
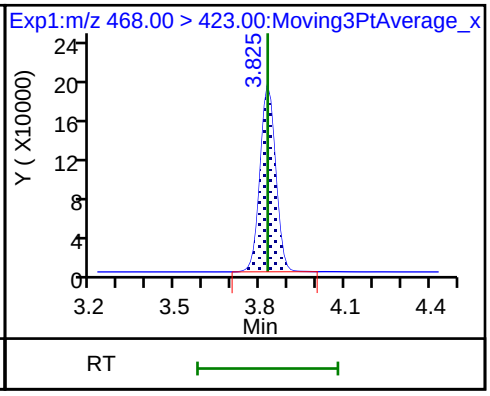
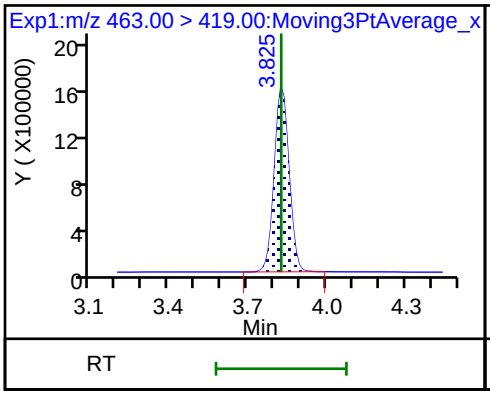


D 19 13C5 PFNA



20 Perfluorononanoic acid



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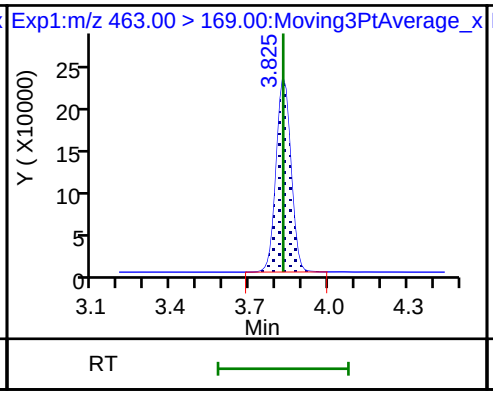
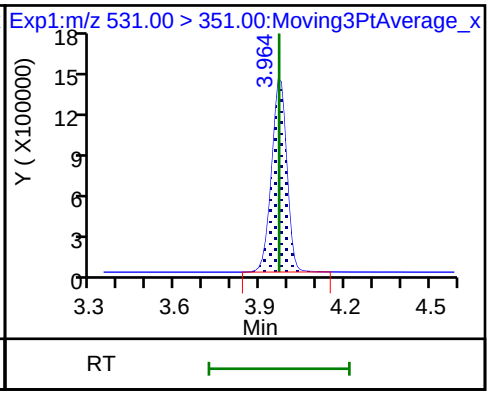
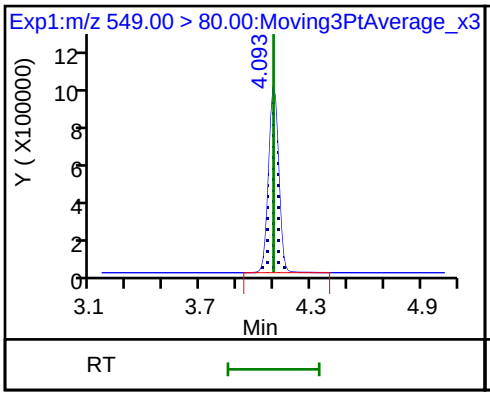


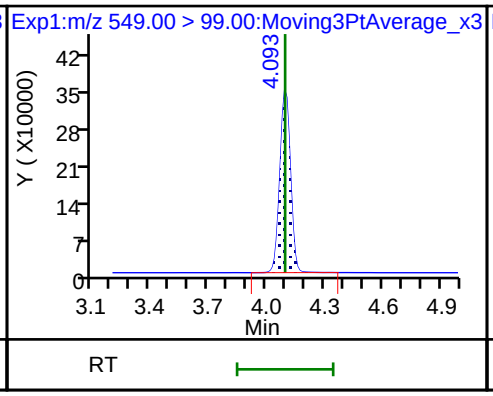
69 9-Chlorohexadecafluoro-3-oxanona (M)



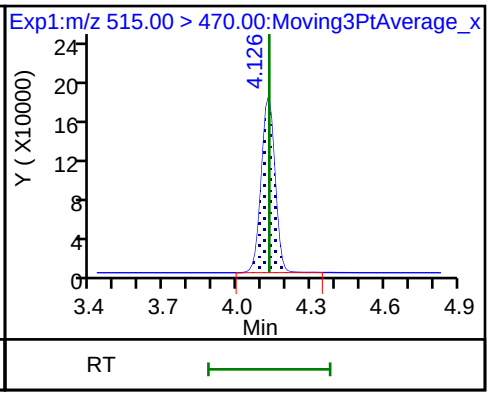
68 Perfluorononanesulfonic acid



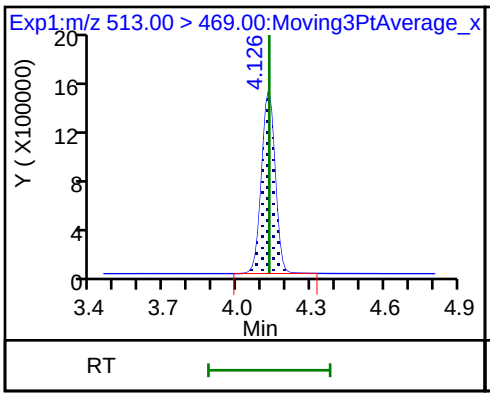
68 Perfluorononanesulfonic acid



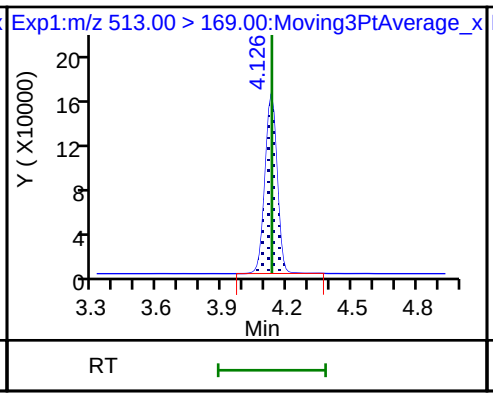
D 23 13C2 PFDA



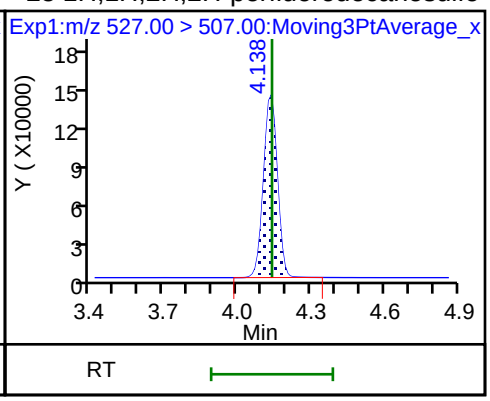
24 Perfluorodecanoic acid



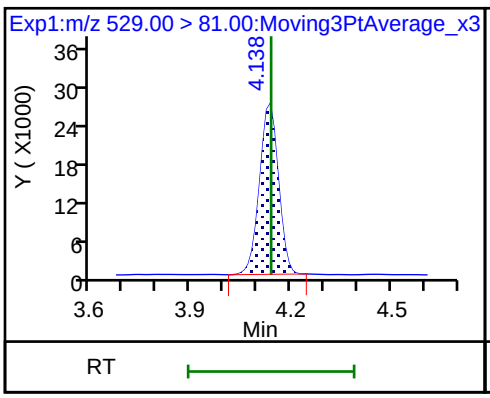
24 Perfluorodecanoic acid



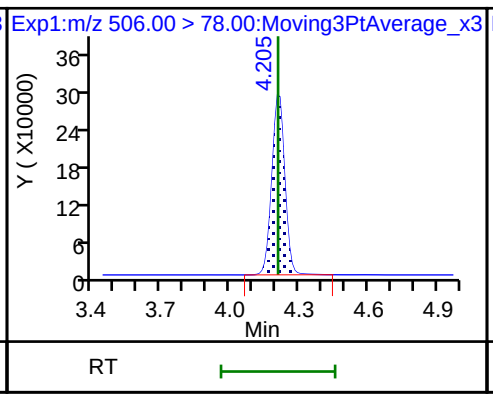
25 1H,1H,2H,2H-perfluorodecanesulfo



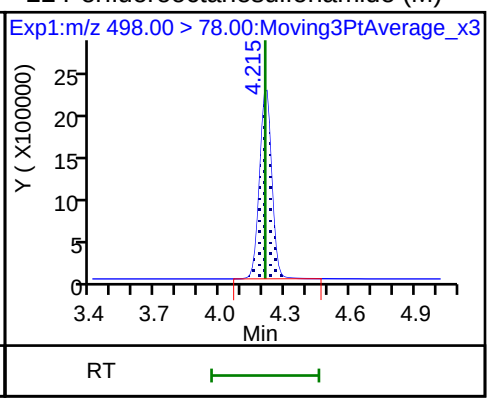
D 26 M2-8:2 FTS



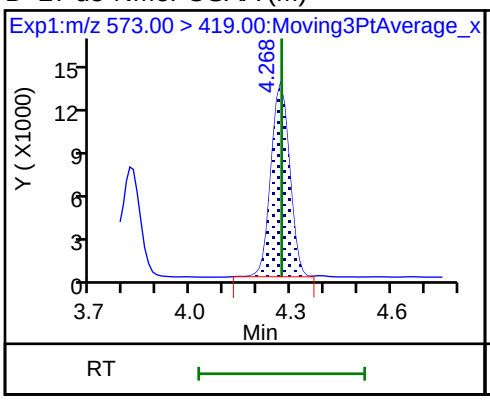
D 21 13C8 FOSA



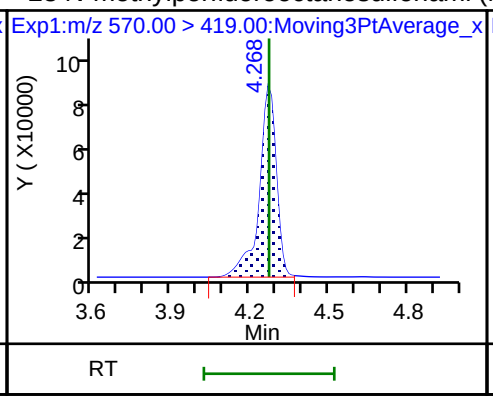
22 Perfluorooctanesulfonamide (M)



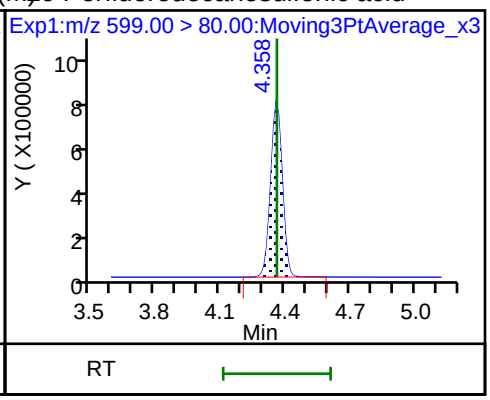
D 27 d3-NMeFOSAA (M)



28 N-methylperfluorooctanesulfonami (M)



29 Perfluorodecanesulfonic acid



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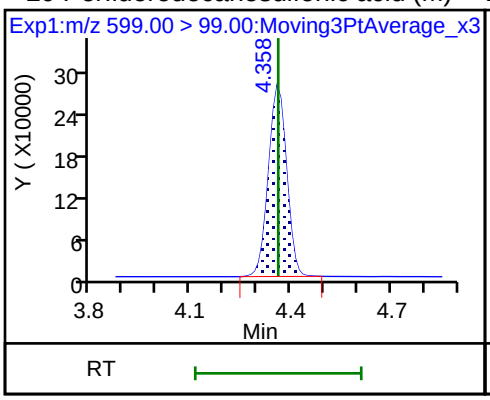
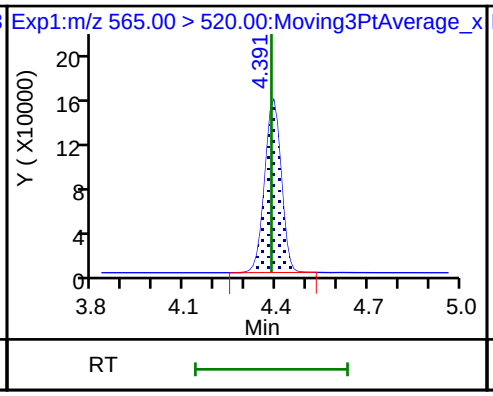
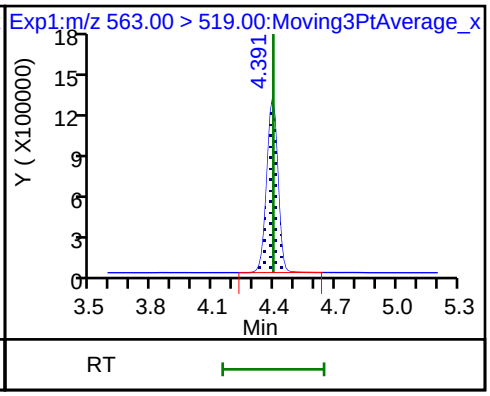


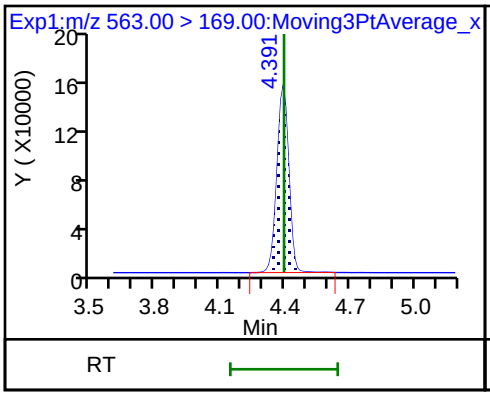
D 30 13C2 PFUnA



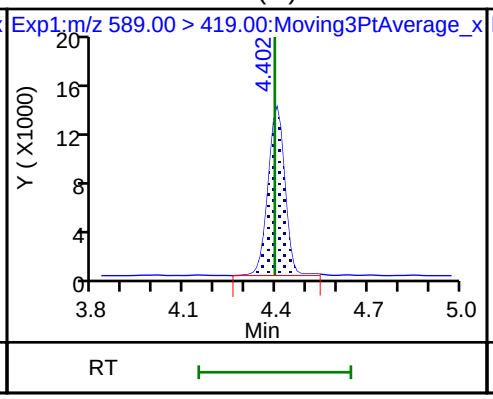
31 Perfluoroundecanoic acid



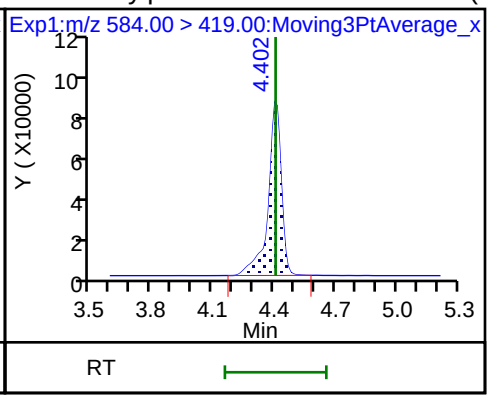
31 Perfluoroundecanoic acid



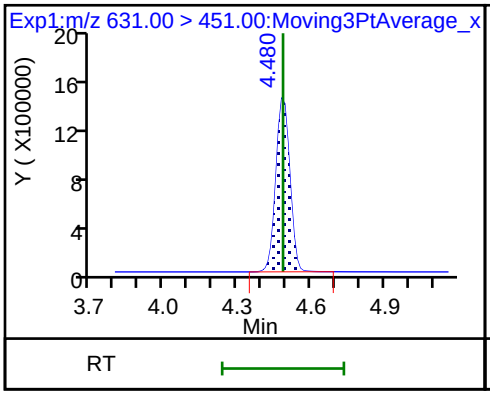
D 32 d5-NEtFOSAA (M)



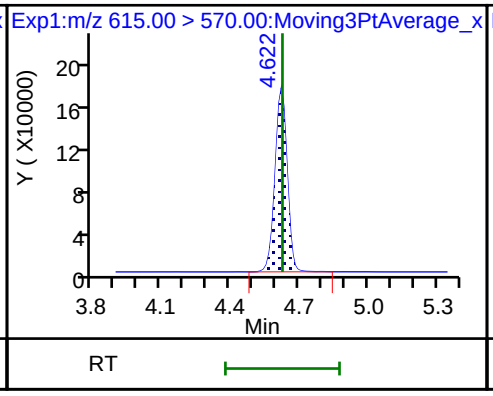
33 N-ethylperfluorooctanesulfonamid (M)



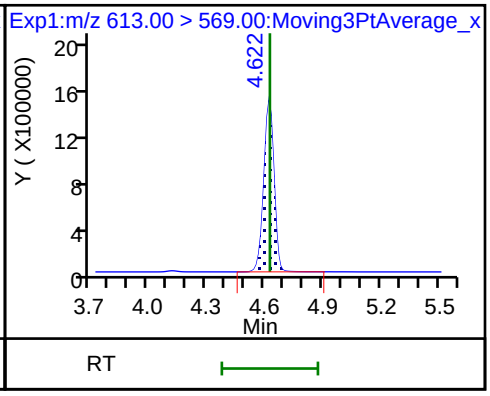
66 11-Chloroeicosafluoro-3-oxaundec



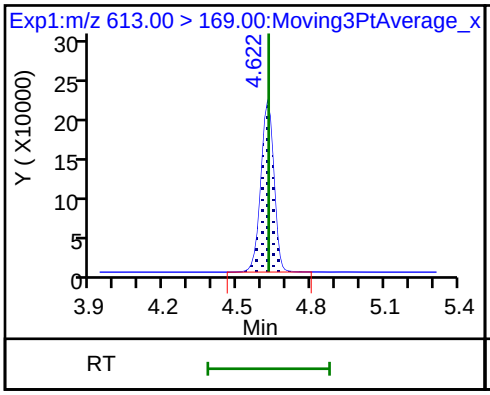
D 36 13C2 PFDoA



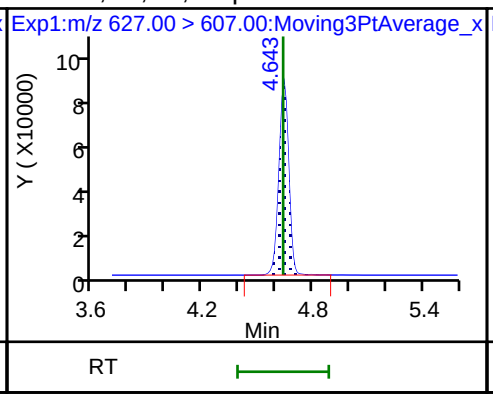
37 Perfluorododecanoic acid



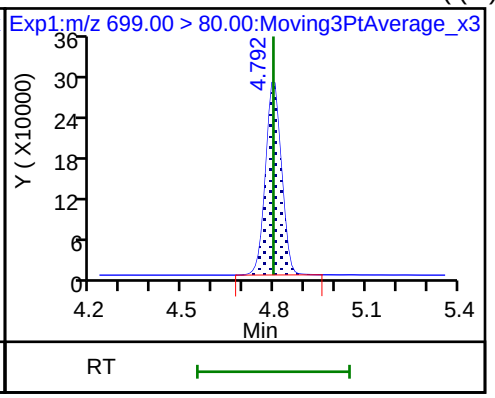
37 Perfluorododecanoic acid



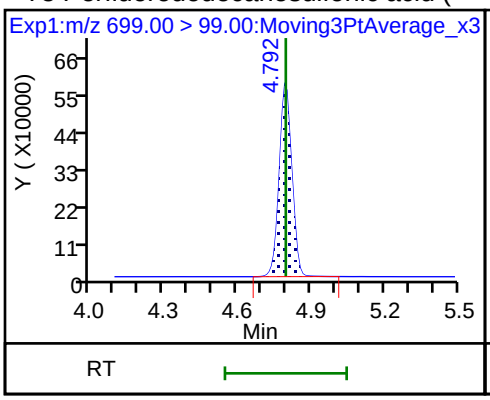
74 1H,1H,2H,2H-perfluorododecanesul



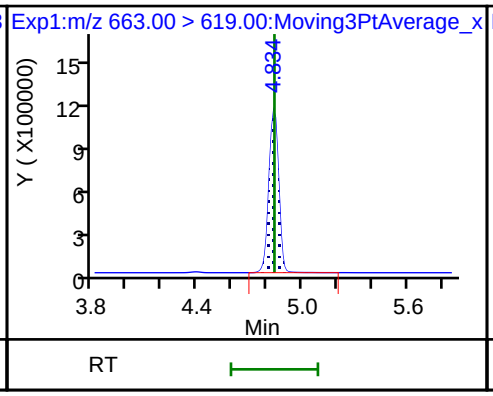
75 Perfluorododecanesulfonic acid ((M)



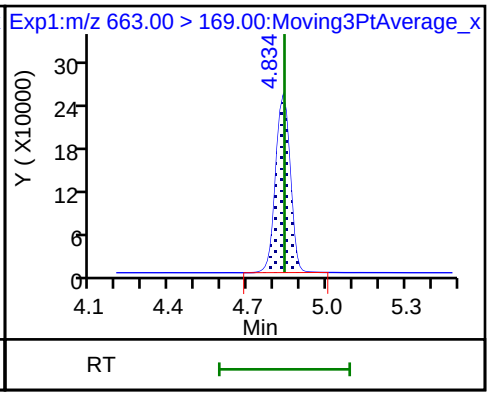
75 Perfluorododecanesulfonic acid (



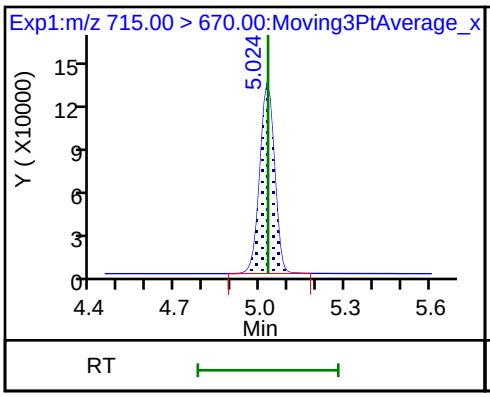
41 Perfluorotridecanoic acid



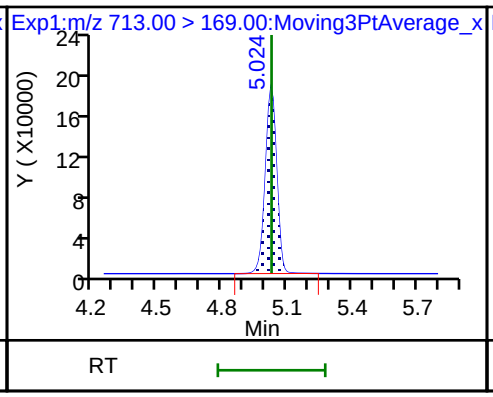
41 Perfluorotridecanoic acid



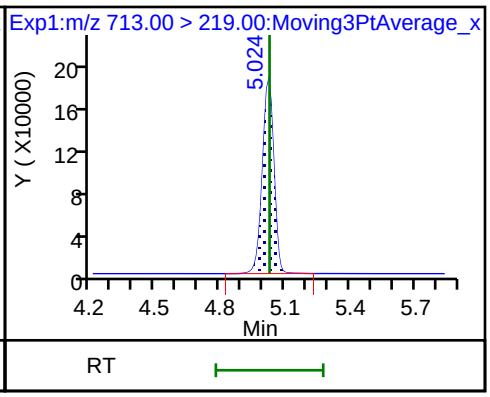
D 43 13C2 PFTeDA



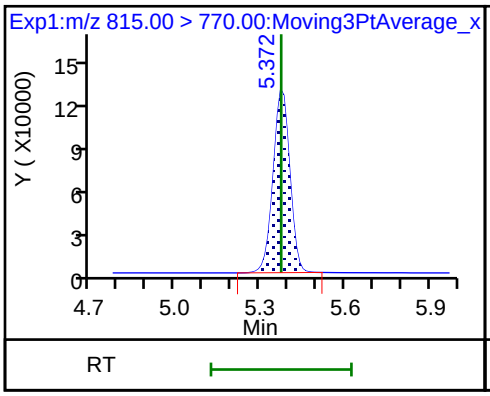
42 Perfluorotetradecanoic acid



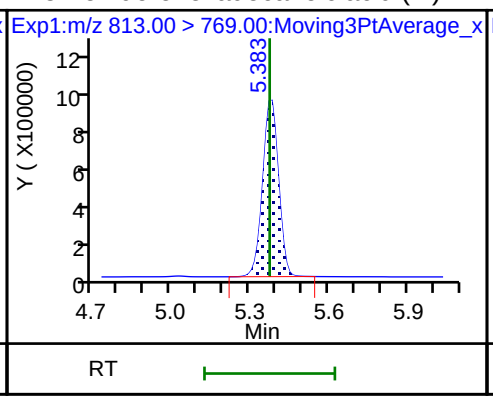
42 Perfluorotetradecanoic acid



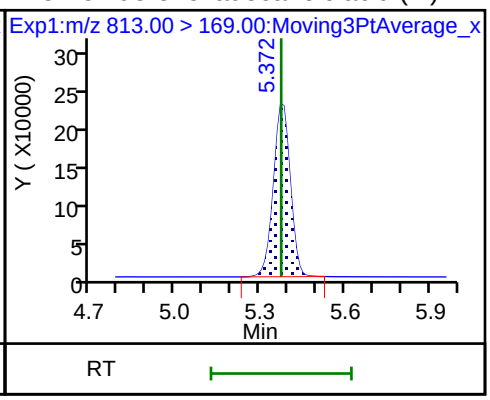
D 44 13C2 PFHxDA



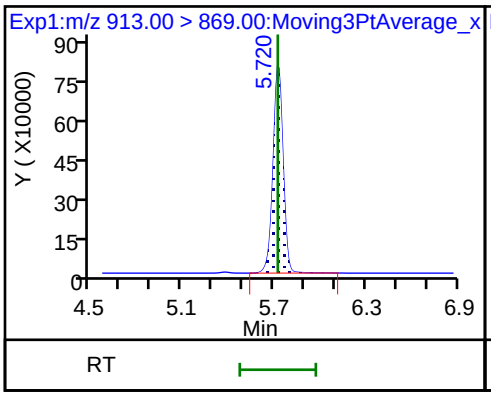
45 Perfluorohexadecanoic acid (M)



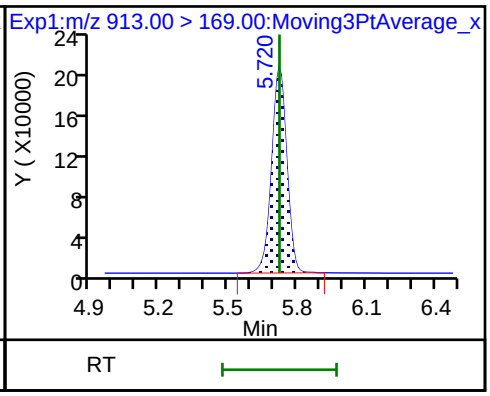
45 Perfluorohexadecanoic acid (M)



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

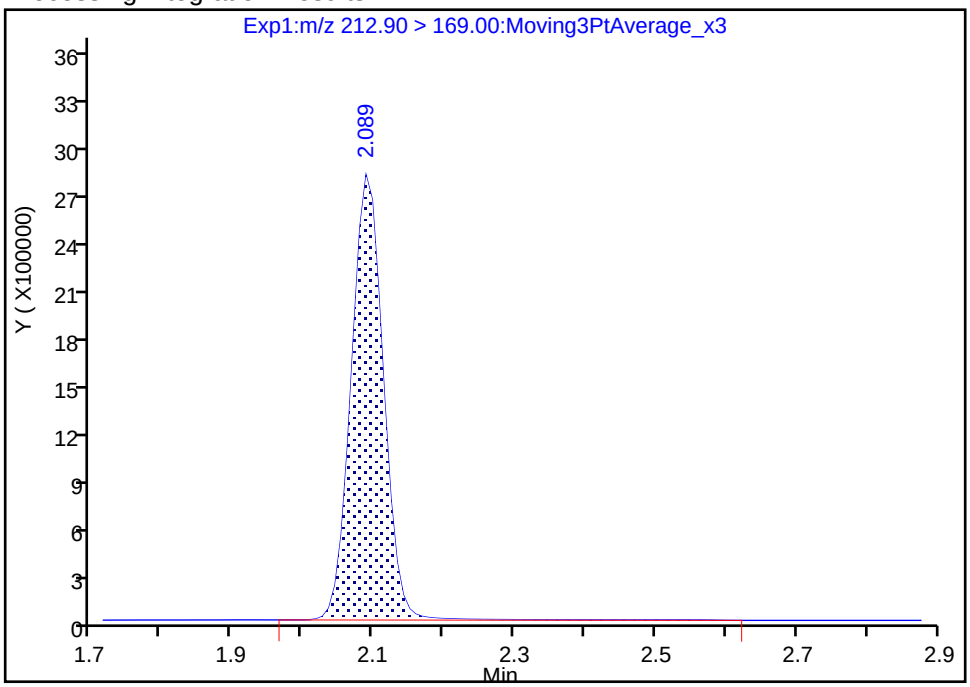
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d				
Injection Date:	22-Dec-2020 13:29:37	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

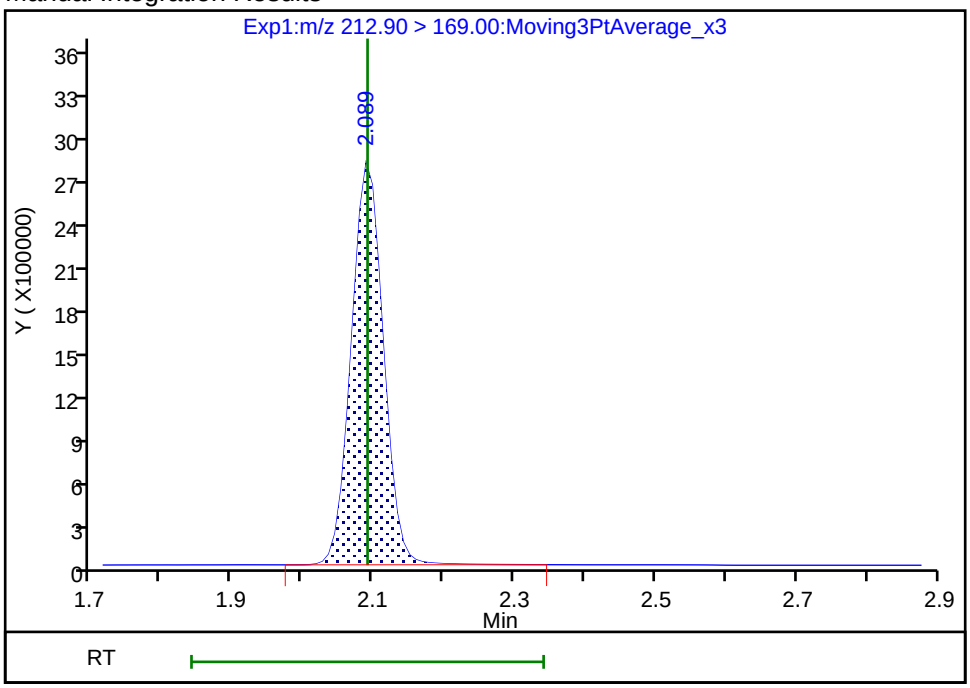
Processing Integration Results

RT: 2.09
Area: 8854729
Amount: 10.021258
Amount Units: ng/ml



Manual Integration Results

RT: 2.09
Area: 8790651
Amount: 9.193132
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:00:25

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

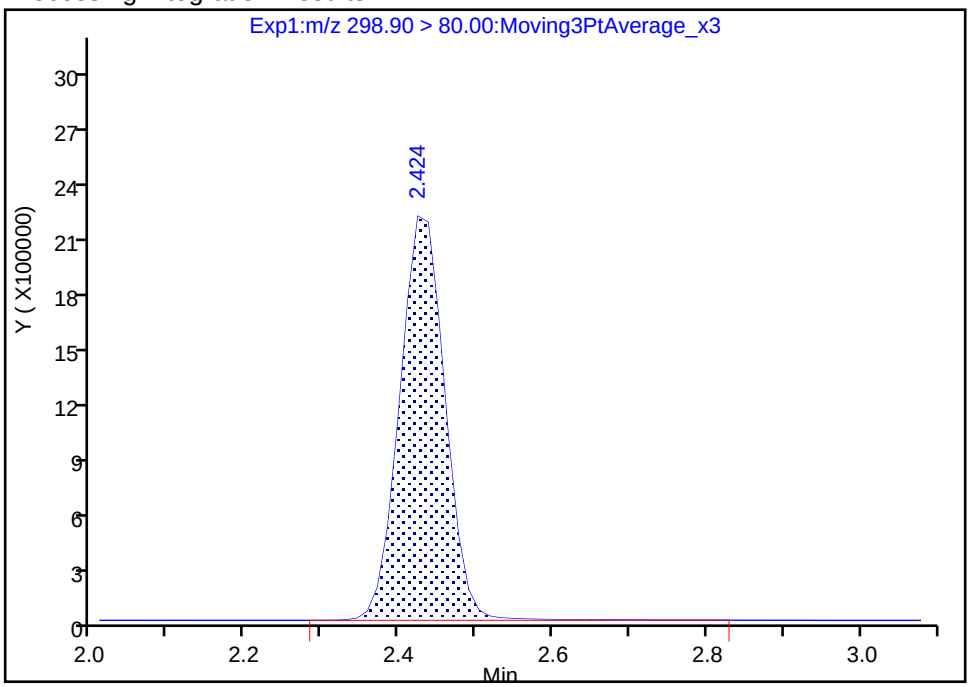
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d				
Injection Date:	22-Dec-2020 13:29:37	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

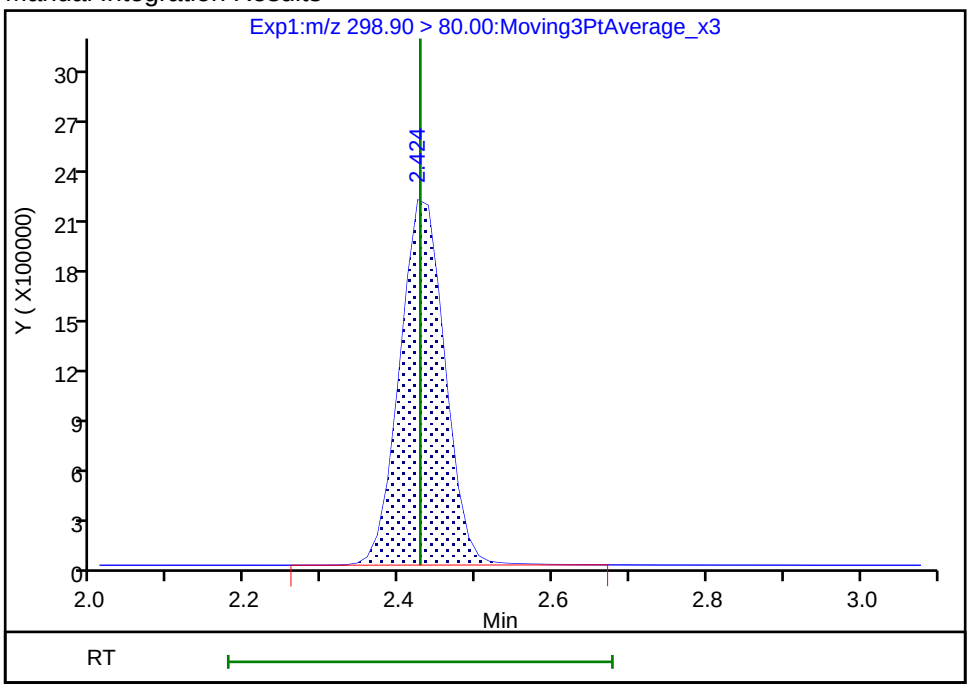
Processing Integration Results

RT: 2.42
Area: 8798028
Amount: 8.864743
Amount Units: ng/ml



Manual Integration Results

RT: 2.42
Area: 8770776
Amount: 8.446965
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:00:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

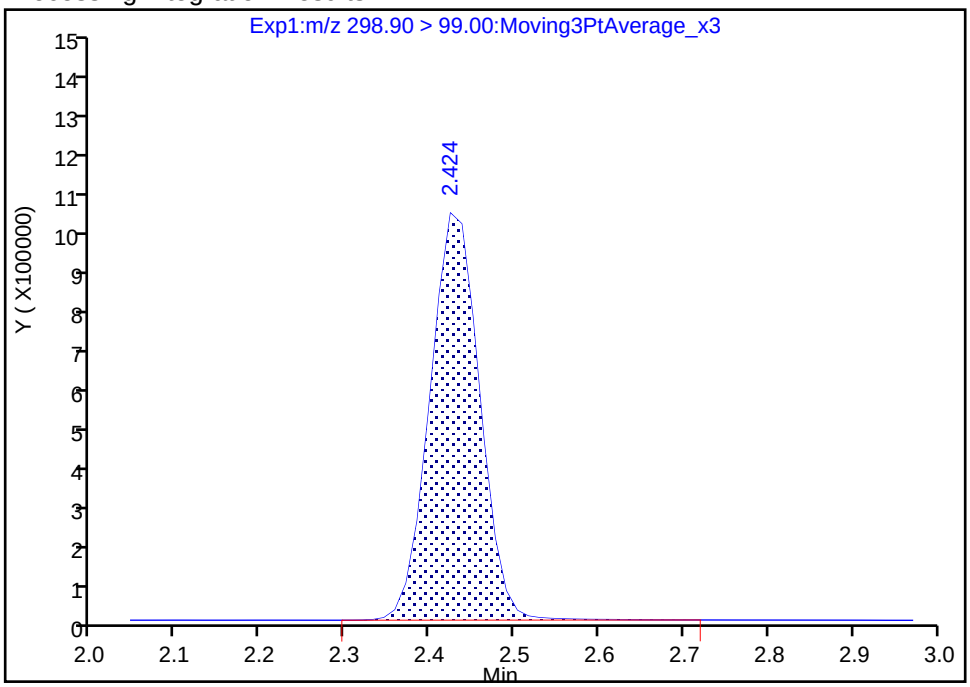
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d				
Injection Date:	22-Dec-2020 13:29:37	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

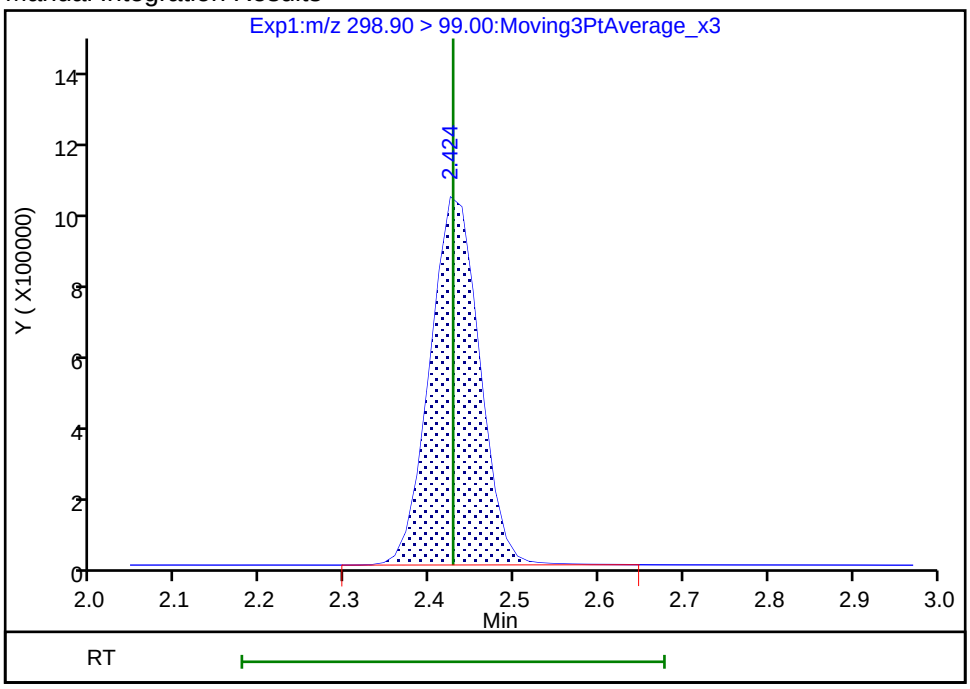
Processing Integration Results

RT: 2.42
Area: 3988912
Amount: 8.864743
Amount Units: ng/ml



Manual Integration Results

RT: 2.42
Area: 3982557
Amount: 8.446965
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:00:40

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

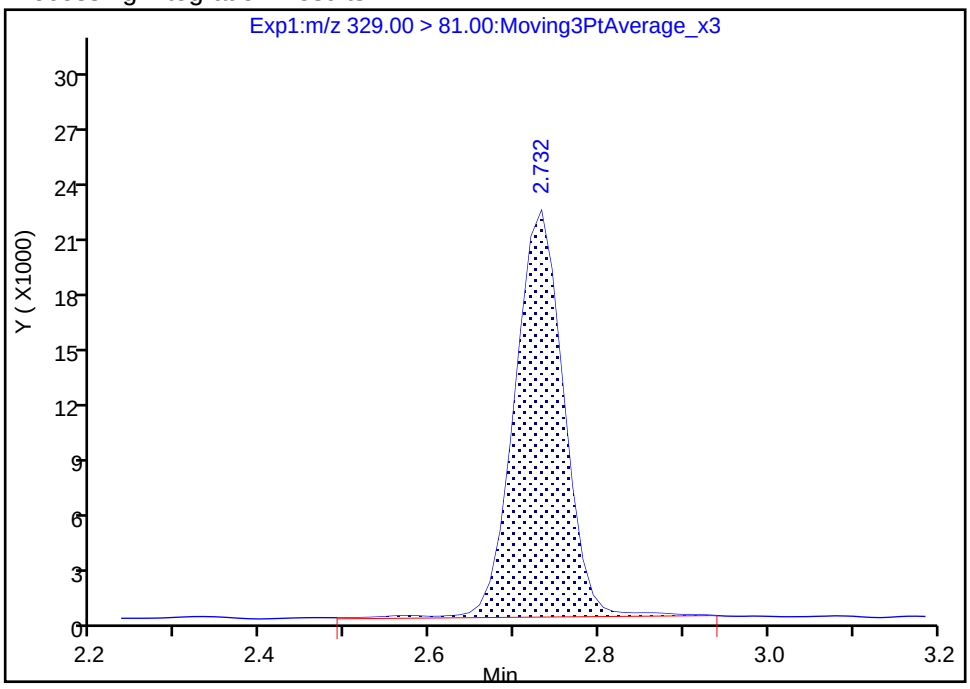
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d				
Injection Date:	22-Dec-2020 13:29:37	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

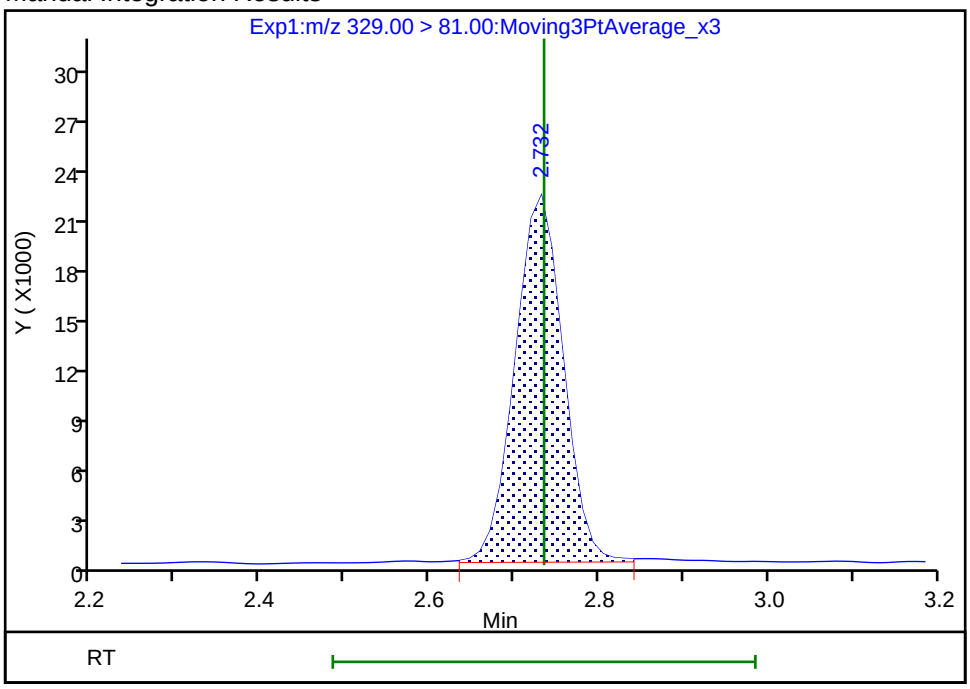
Processing Integration Results

RT: 2.73
Area: 89402
Amount: 1.224941
Amount Units: ng/ml



Manual Integration Results

RT: 2.73
Area: 88021
Amount: 1.212116
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:01:07
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

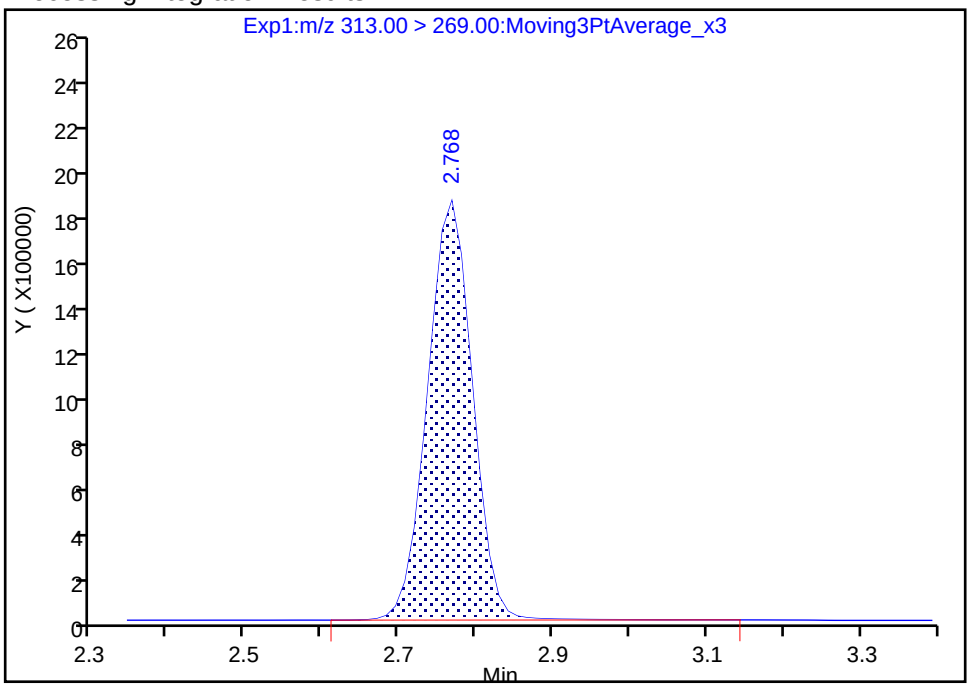
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d				
Injection Date:	22-Dec-2020 13:29:37	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

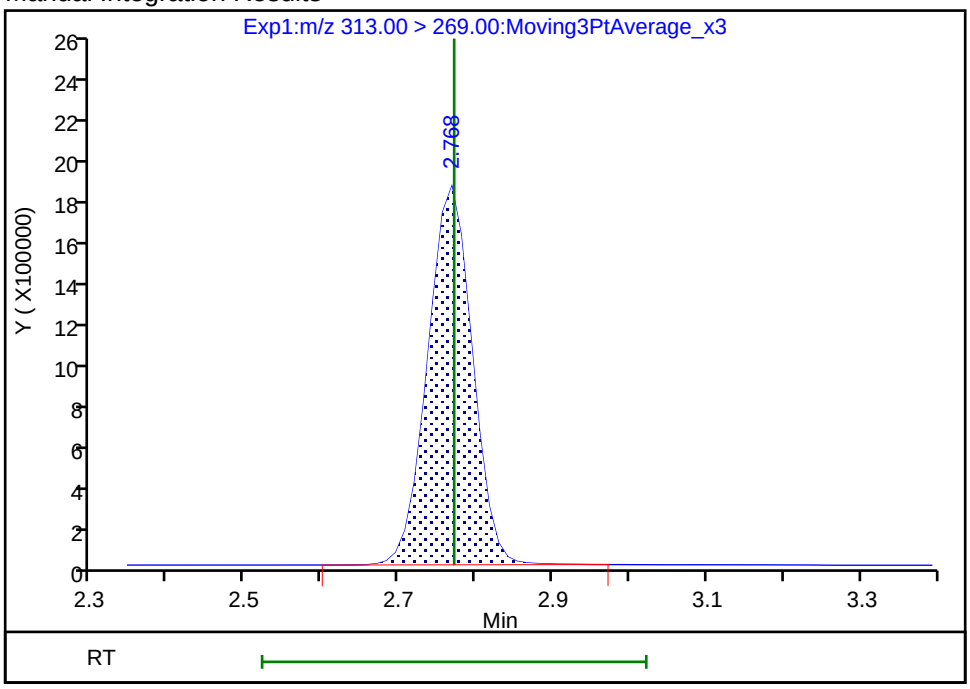
Processing Integration Results

RT: 2.77
Area: 7340146
Amount: 10.071365
Amount Units: ng/ml



Manual Integration Results

RT: 2.77
Area: 7316861
Amount: 9.665643
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:01:14

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

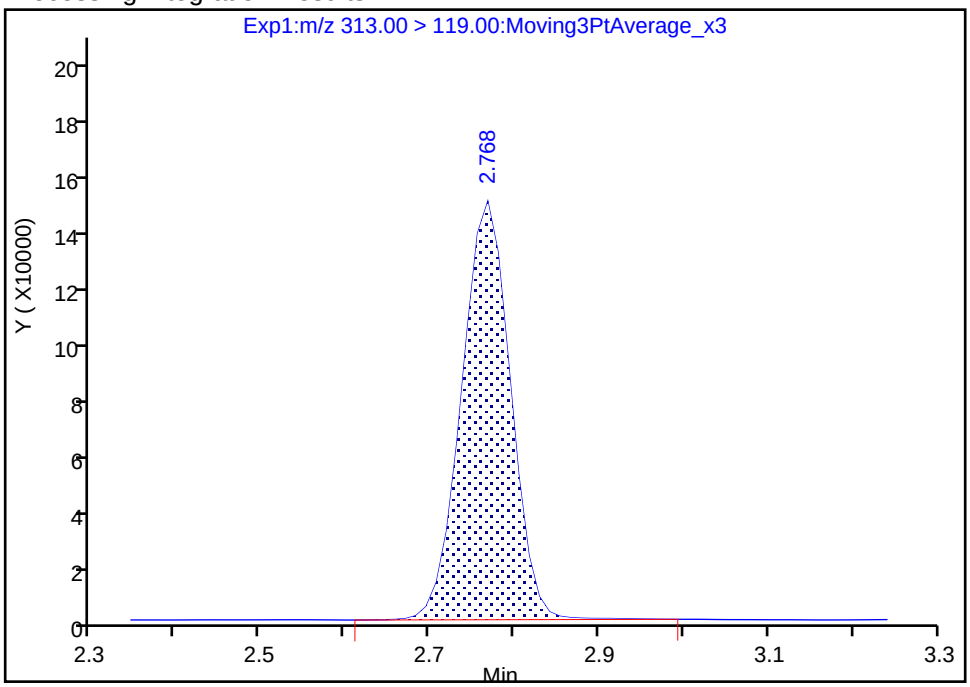
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d				
Injection Date:	22-Dec-2020 13:29:37	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

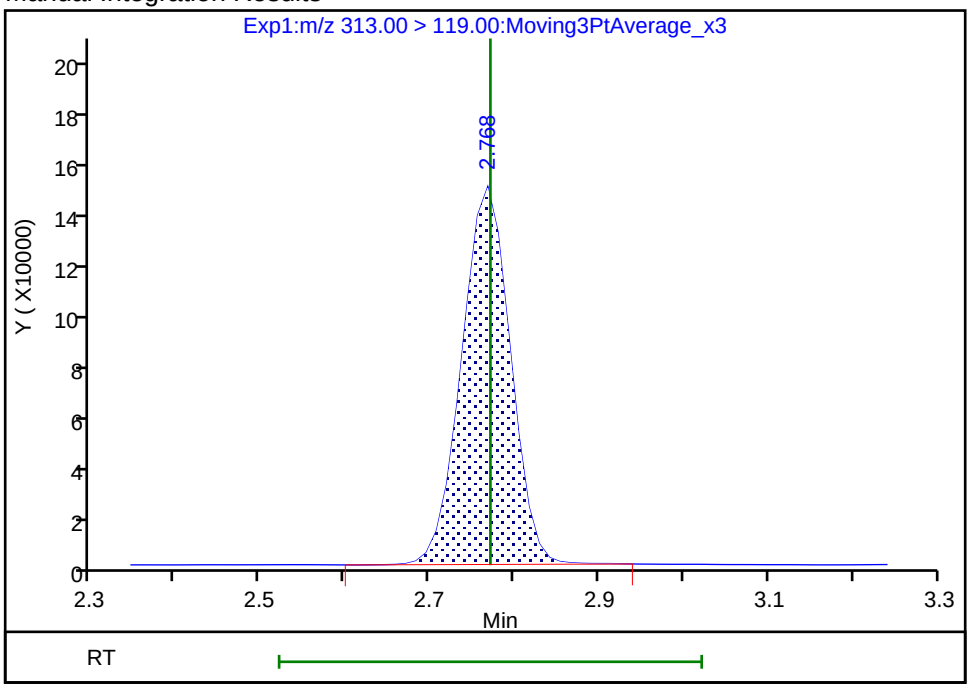
Processing Integration Results

RT: 2.77
Area: 602299
Amount: 10.071365
Amount Units: ng/ml



Manual Integration Results

RT: 2.77
Area: 600272
Amount: 9.665643
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:01:19

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

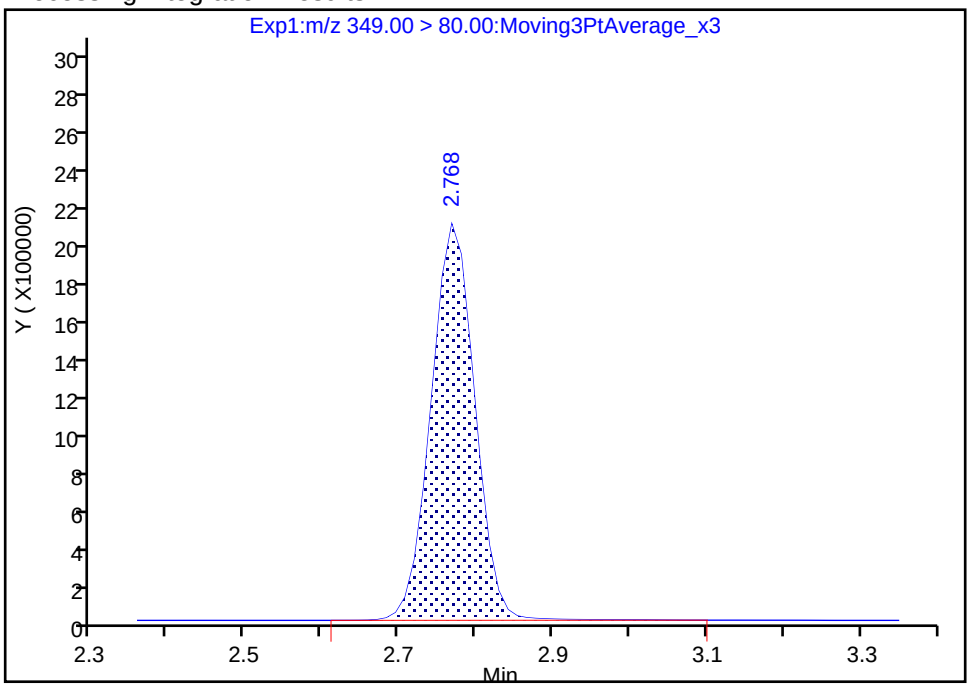
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d				
Injection Date:	22-Dec-2020 13:29:37	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 1

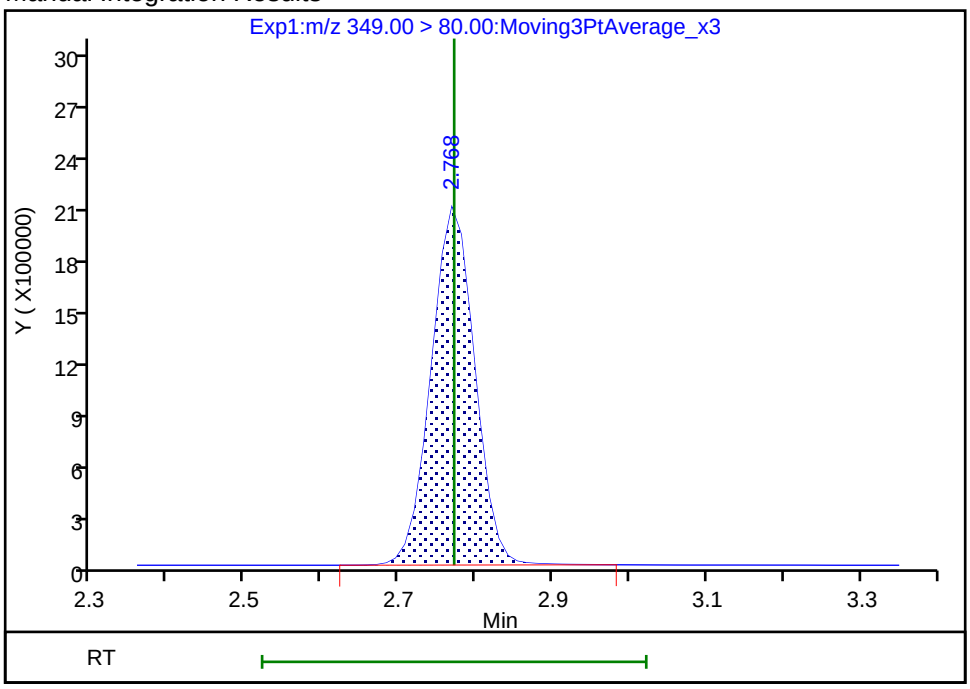
Processing Integration Results

RT: 2.77
Area: 8141354
Amount: 9.412724
Amount Units: ng/ml



Manual Integration Results

RT: 2.77
Area: 8114898
Amount: 9.121450
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:01:27

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

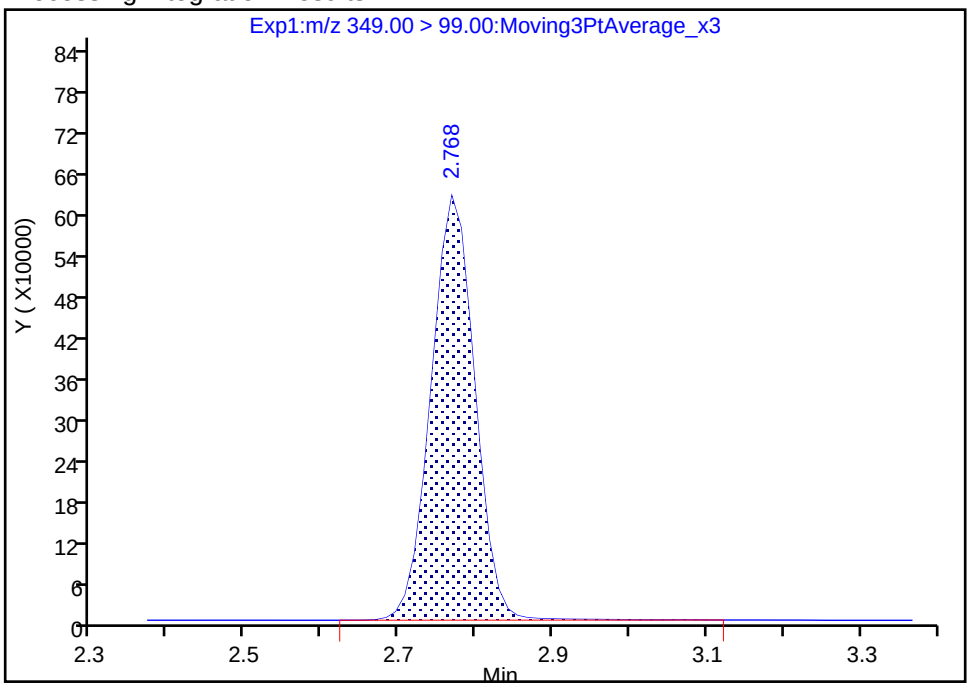
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d				
Injection Date:	22-Dec-2020 13:29:37	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 2

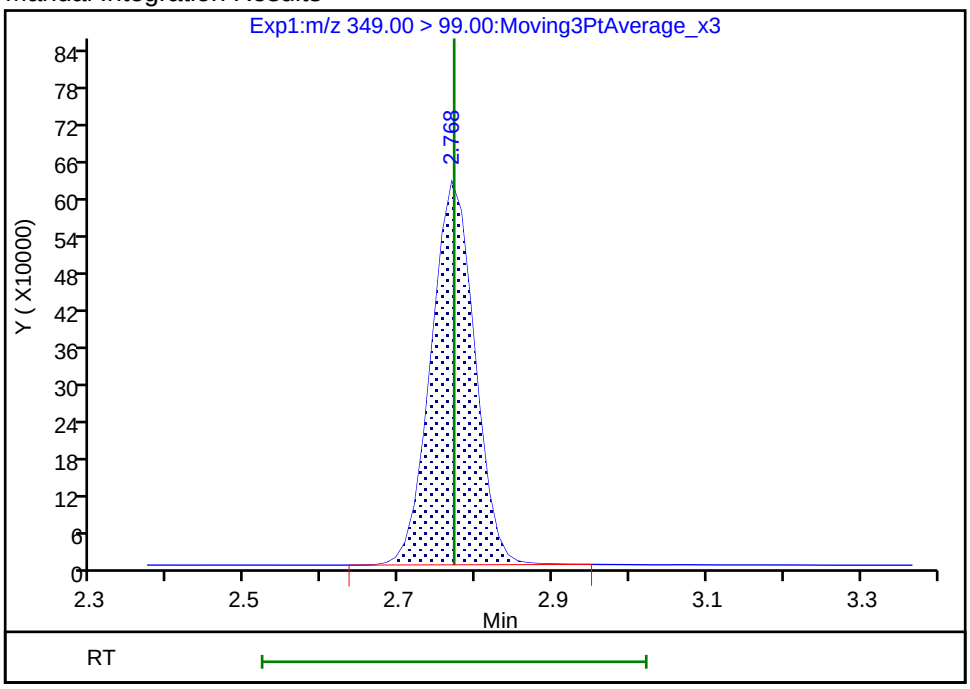
Processing Integration Results

RT: 2.77
Area: 2468153
Amount: 9.412724
Amount Units: ng/ml



Manual Integration Results

RT: 2.77
Area: 2455035
Amount: 9.121450
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:01:31

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

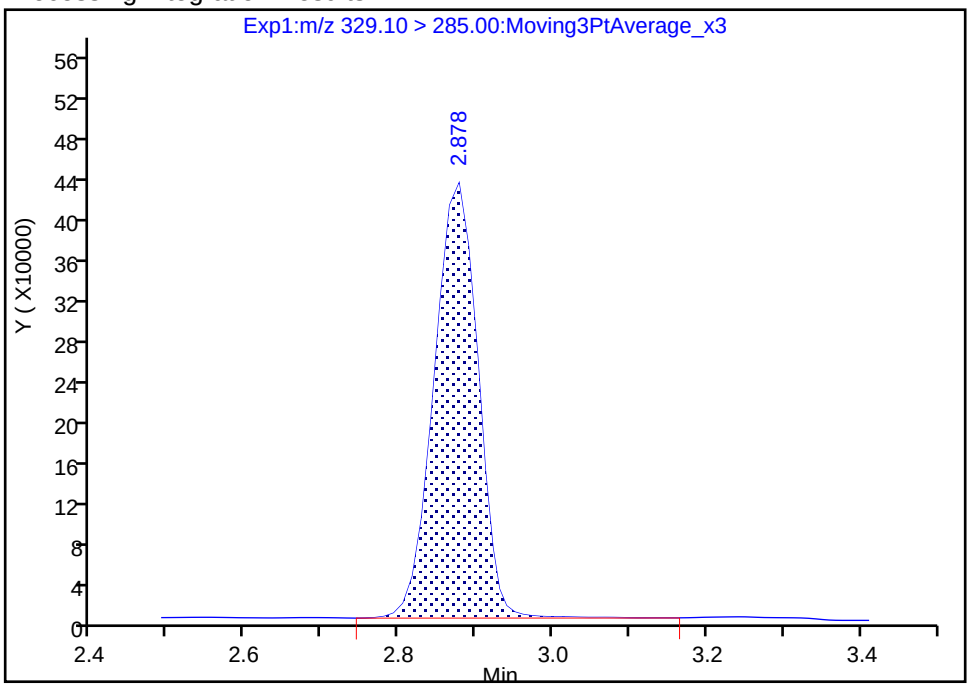
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d				
Injection Date:	22-Dec-2020 13:29:37	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

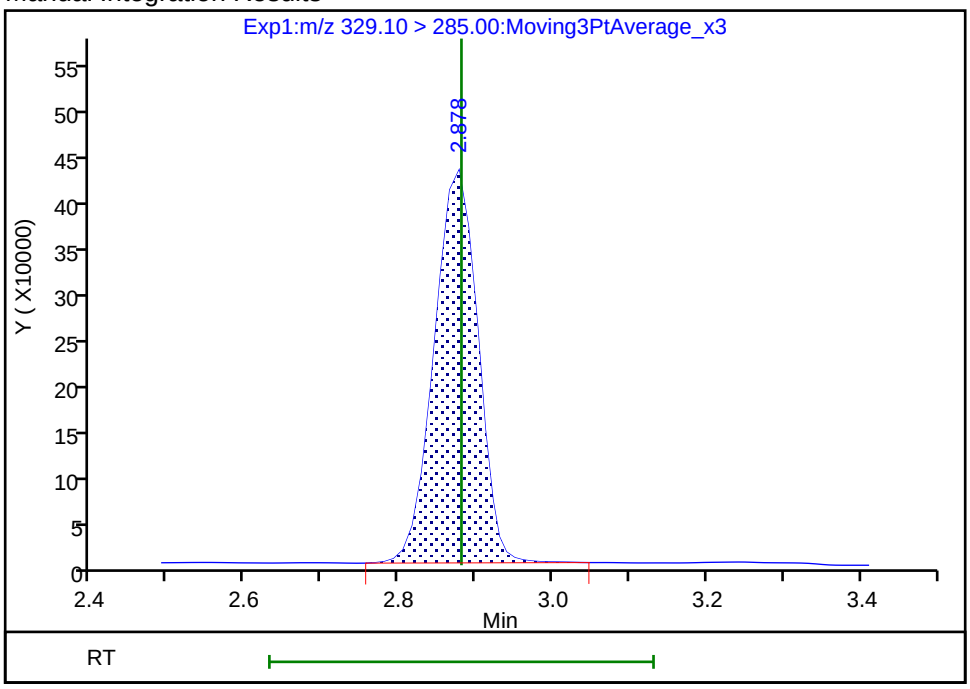
Processing Integration Results

RT: 2.88
Area: 1699465
Amount: 10.481820
Amount Units: ng/ml



Manual Integration Results

RT: 2.88
Area: 1690983
Amount: 10.920927
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:01:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

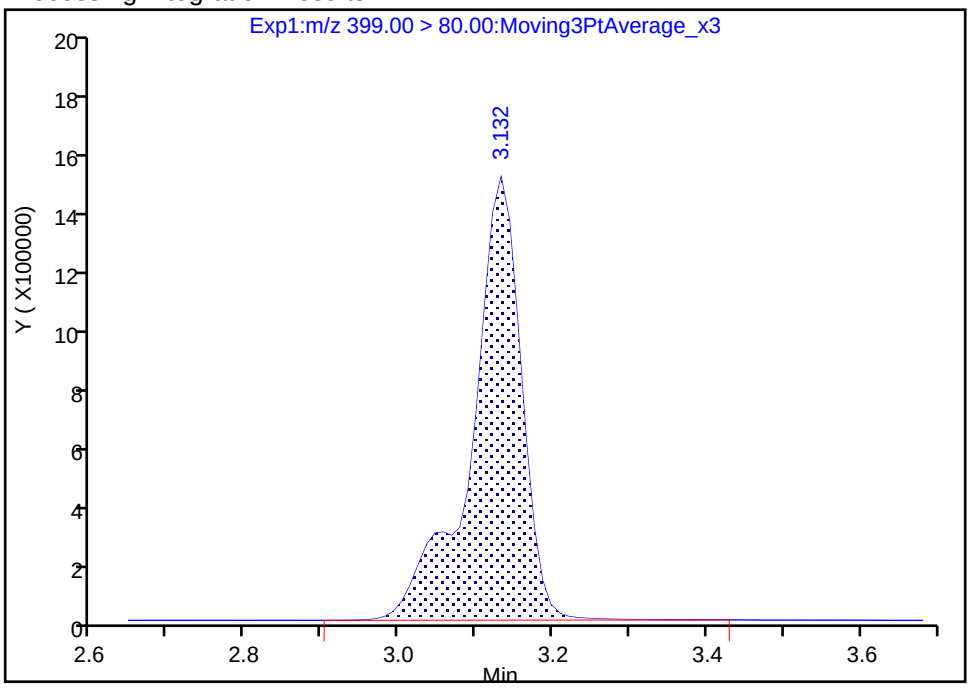
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d				
Injection Date:	22-Dec-2020 13:29:37	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

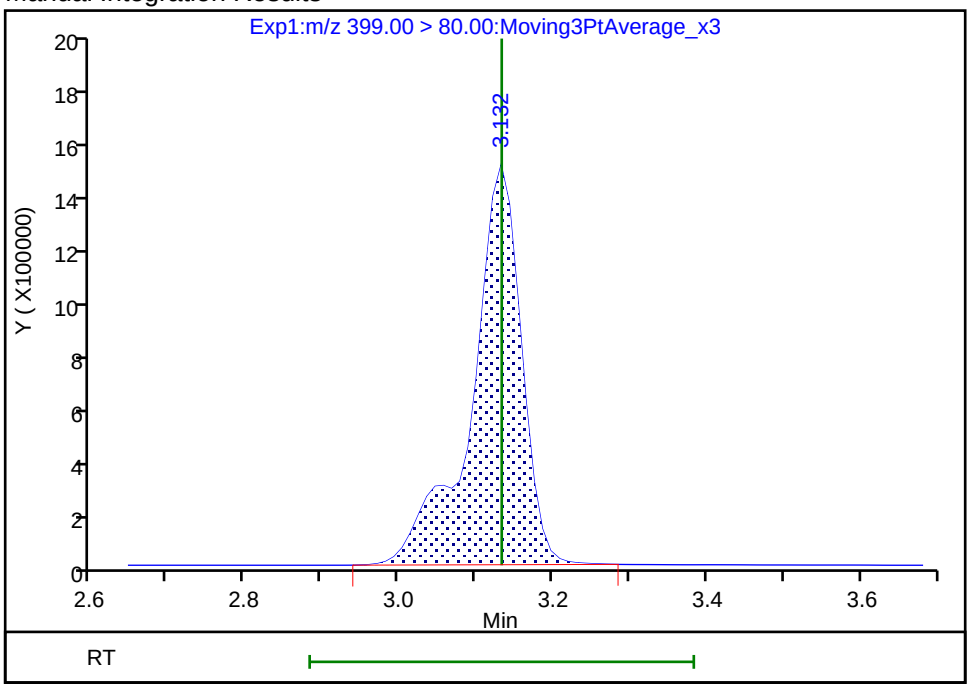
Processing Integration Results

RT: 3.13
Area: 6704374
Amount: 9.072810
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 6676661
Amount: 8.357156
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:01:46

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

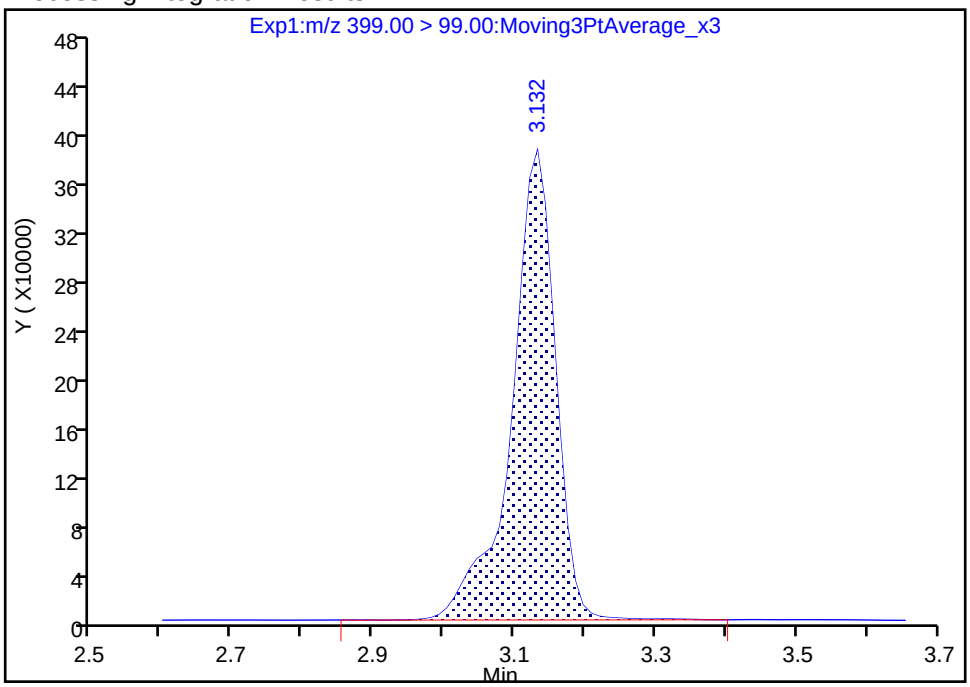
Data File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d
Injection Date: 22-Dec-2020 13:29:37 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

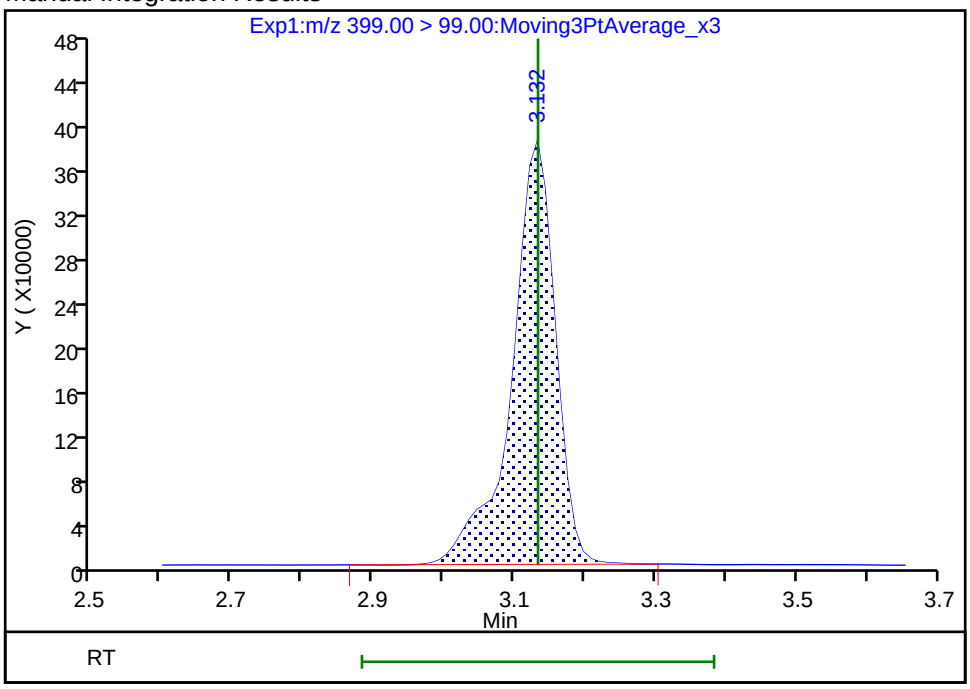
Processing Integration Results

RT: 3.13
Area: 1643683
Amount: 9.072810
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 1631116
Amount: 8.357156
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:01:49
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

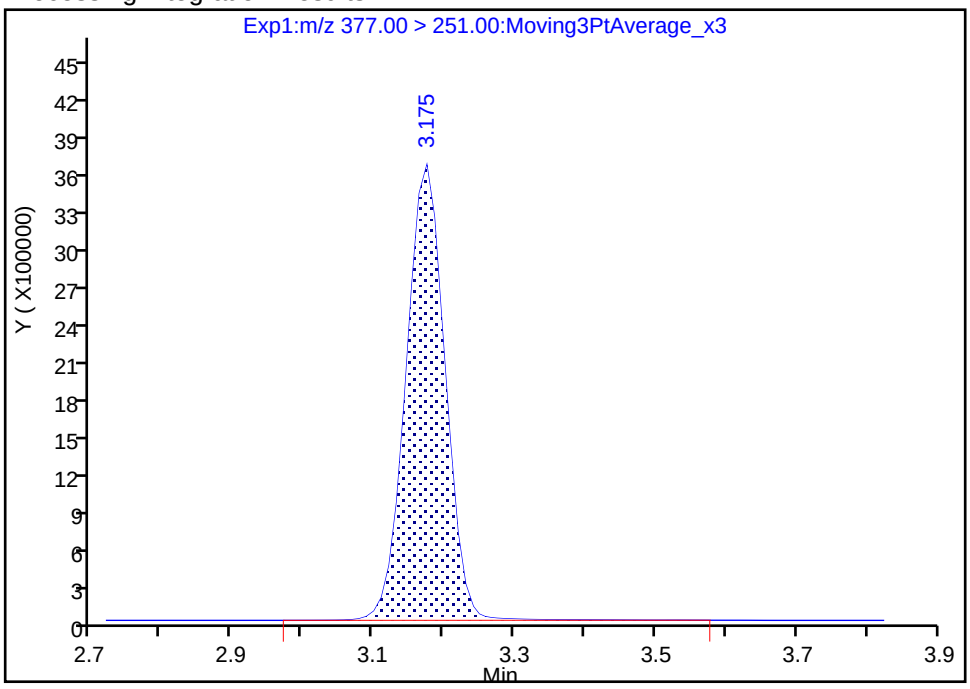
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d				
Injection Date:	22-Dec-2020 13:29:37	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

77 DONA, CAS: 919005-14-4

Signal: 1

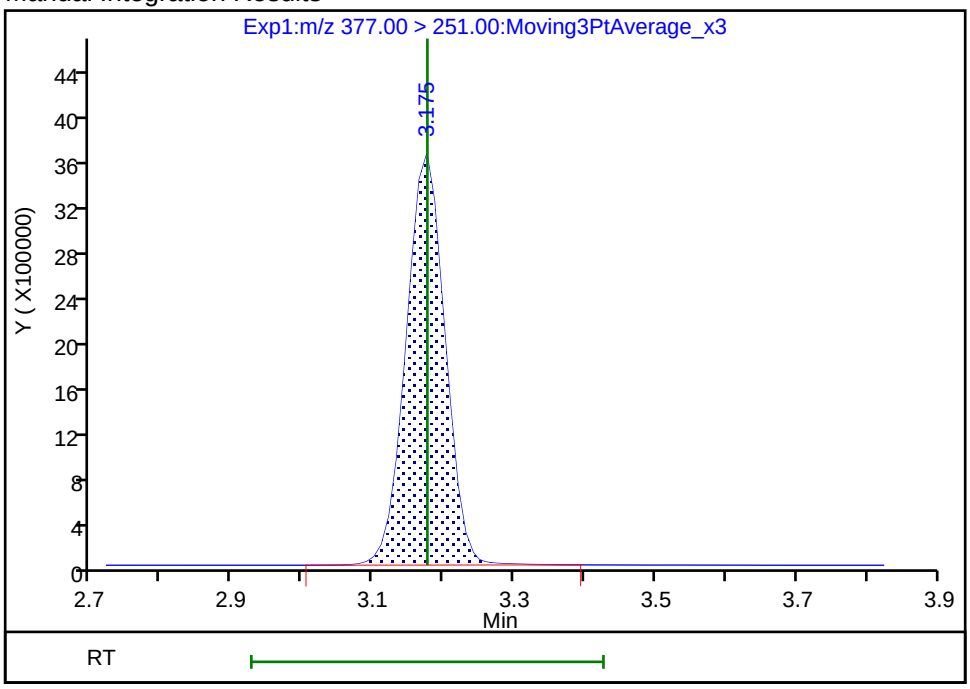
Processing Integration Results

RT: 3.18
Area: 13968604
Amount: 9.315090
Amount Units: ng/ml



Manual Integration Results

RT: 3.18
Area: 13928638
Amount: 8.998109
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:01:57

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

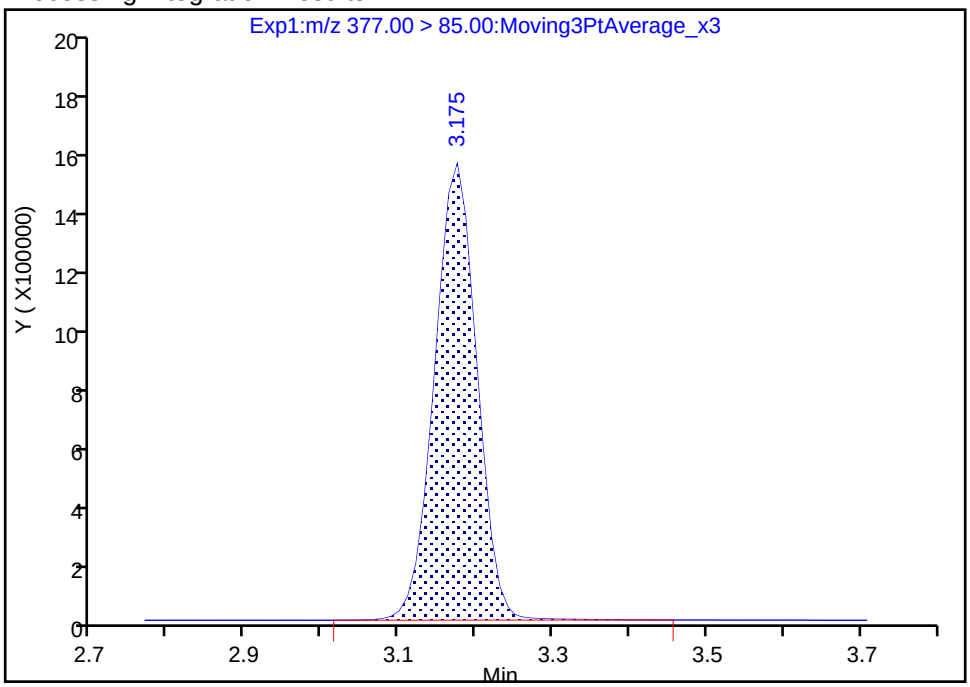
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d				
Injection Date:	22-Dec-2020 13:29:37	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

77 DONA, CAS: 919005-14-4

Signal: 2

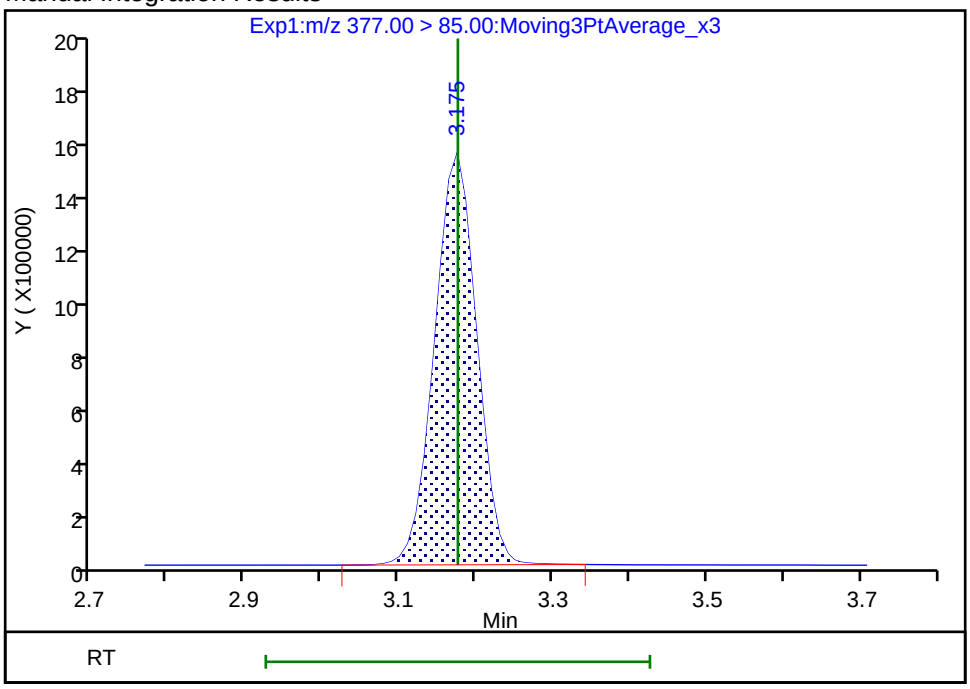
Processing Integration Results

RT: 3.18
Area: 5824120
Amount: 9.315090
Amount Units: ng/ml



Manual Integration Results

RT: 3.18
Area: 5802950
Amount: 8.998109
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:02:01

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

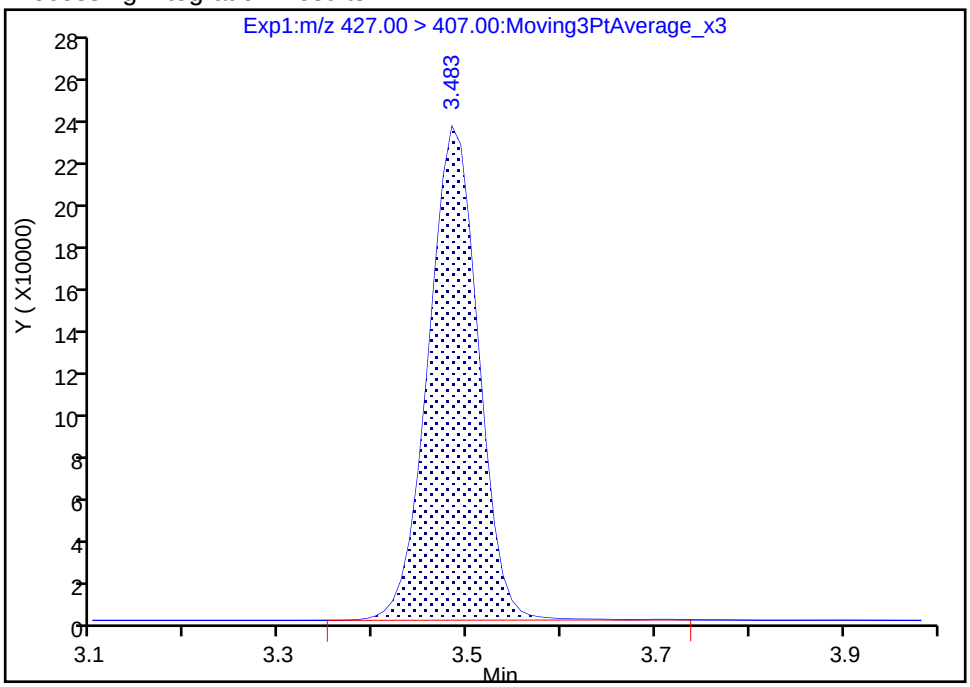
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d				
Injection Date:	22-Dec-2020 13:29:37	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

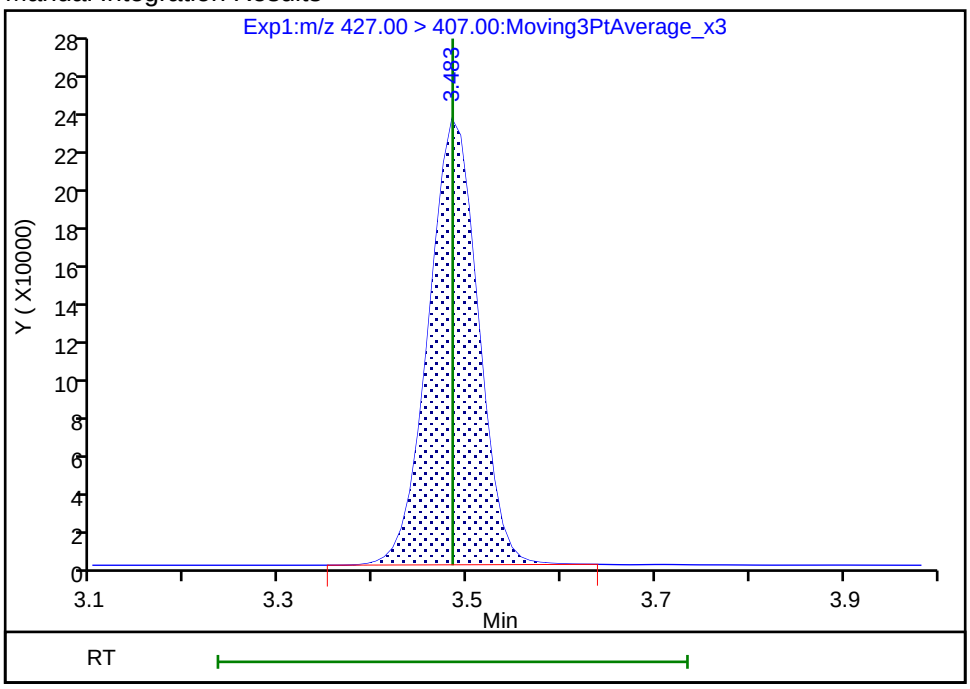
Processing Integration Results

RT: 3.48
Area: 857542
Amount: 9.479520
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 854196
Amount: 9.466413
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:02:20

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

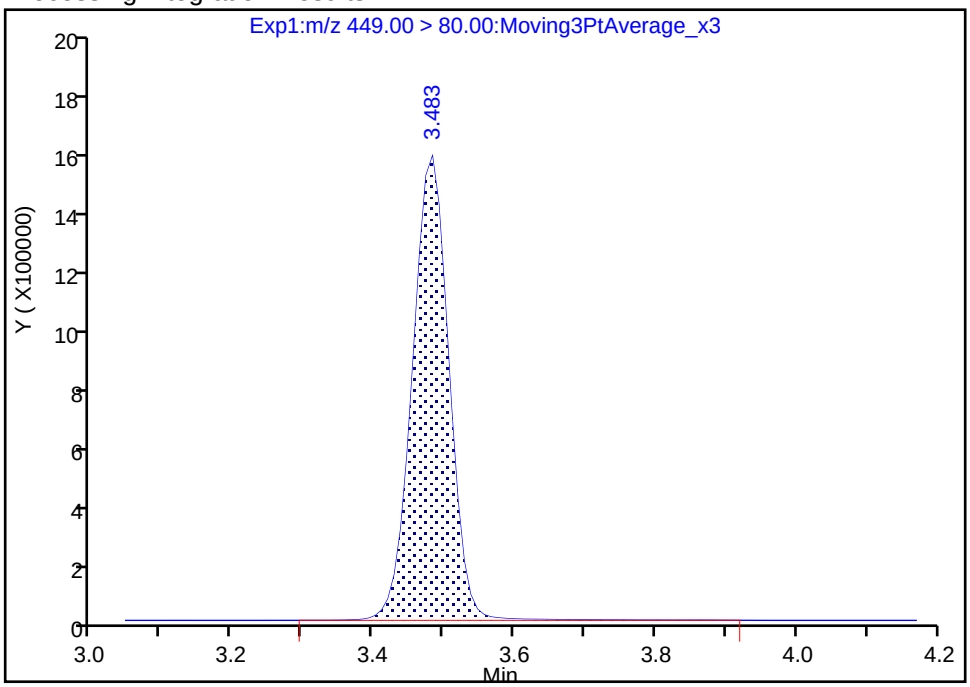
Data File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d
Injection Date: 22-Dec-2020 13:29:37 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

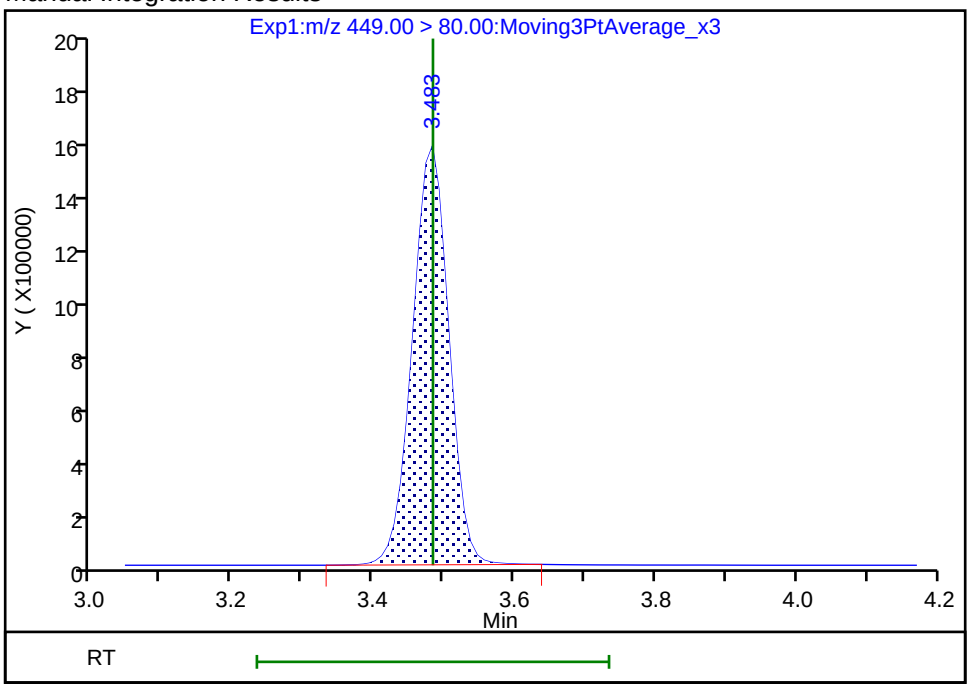
Processing Integration Results

RT: 3.48
Area: 5614949
Amount: 9.491517
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 5572962
Amount: 8.928842
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:02:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

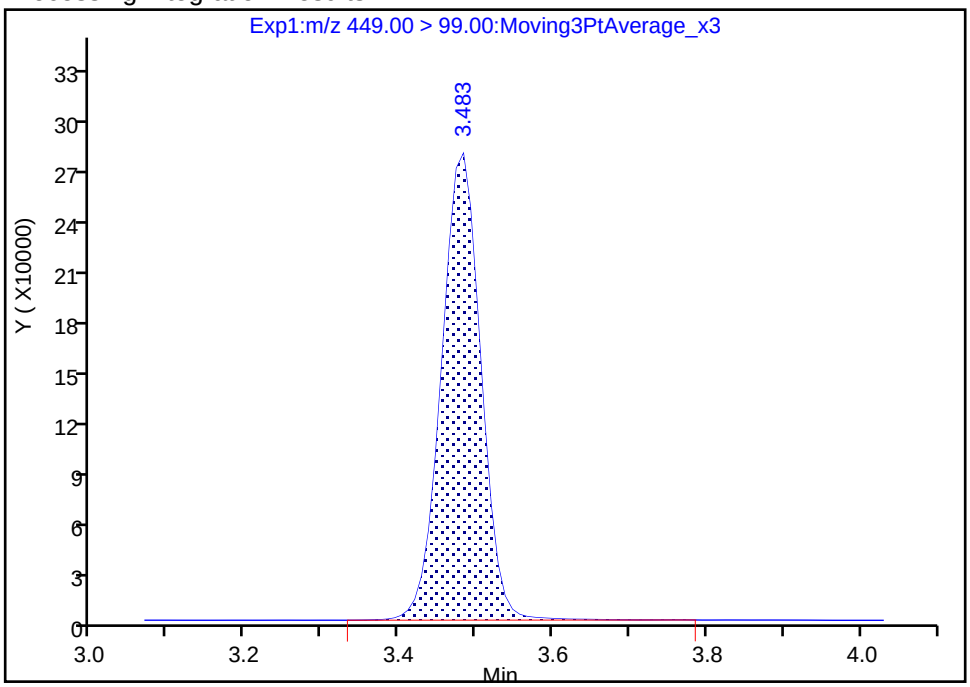
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d				
Injection Date:	22-Dec-2020 13:29:37	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

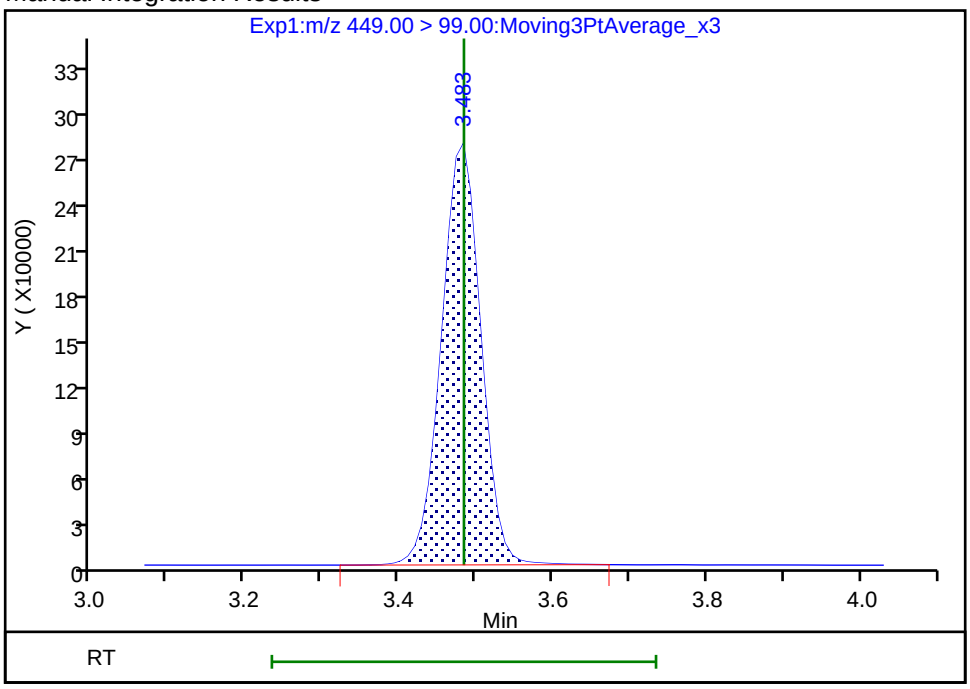
Processing Integration Results

RT: 3.48
Area: 967749
Amount: 9.491517
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 965141
Amount: 8.928842
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:02:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

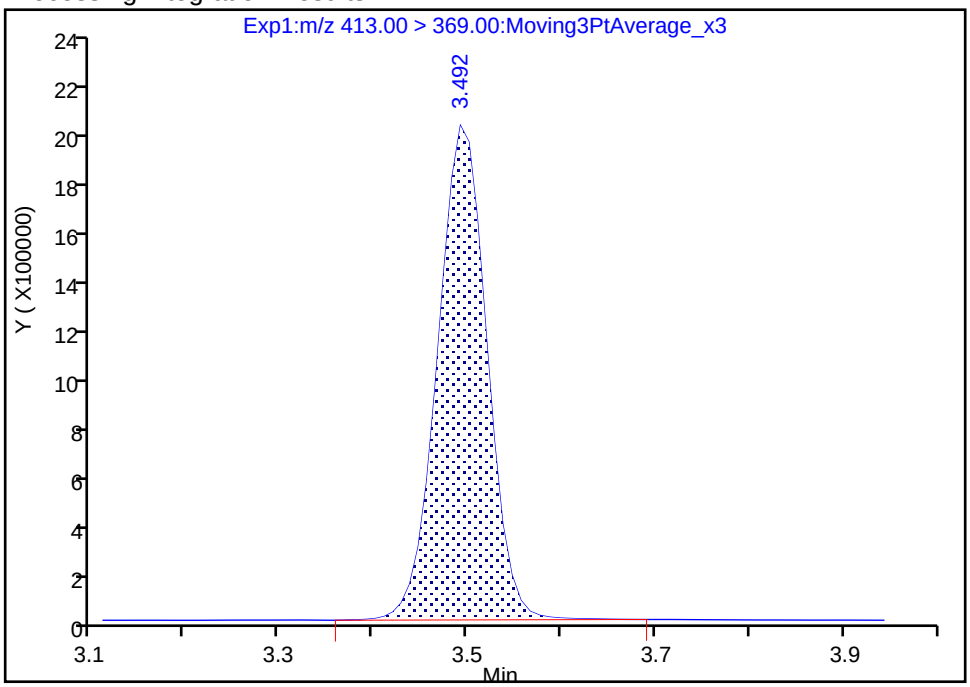
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d				
Injection Date:	22-Dec-2020 13:29:37	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

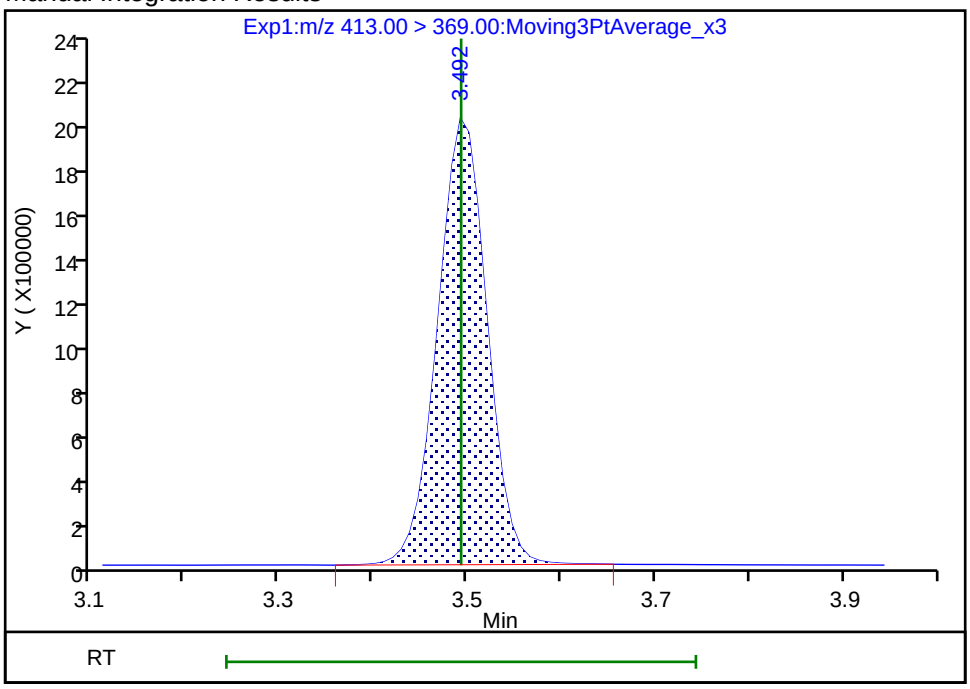
Processing Integration Results

RT: 3.49
Area: 7264133
Amount: 10.101909
Amount Units: ng/ml



Manual Integration Results

RT: 3.49
Area: 7252703
Amount: 9.960263
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:02:31
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

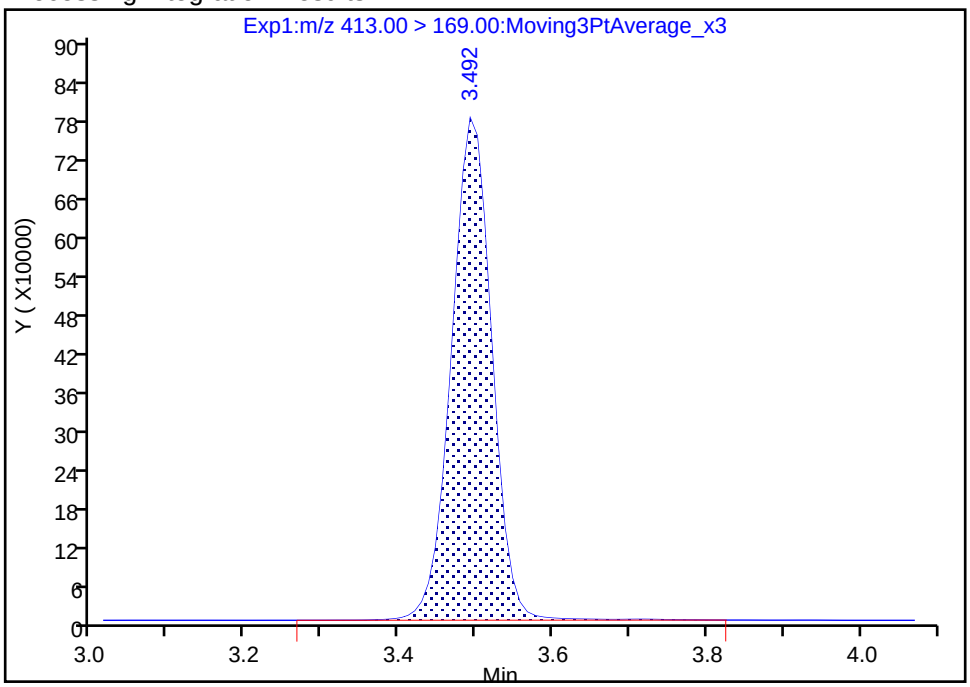
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d				
Injection Date:	22-Dec-2020 13:29:37	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

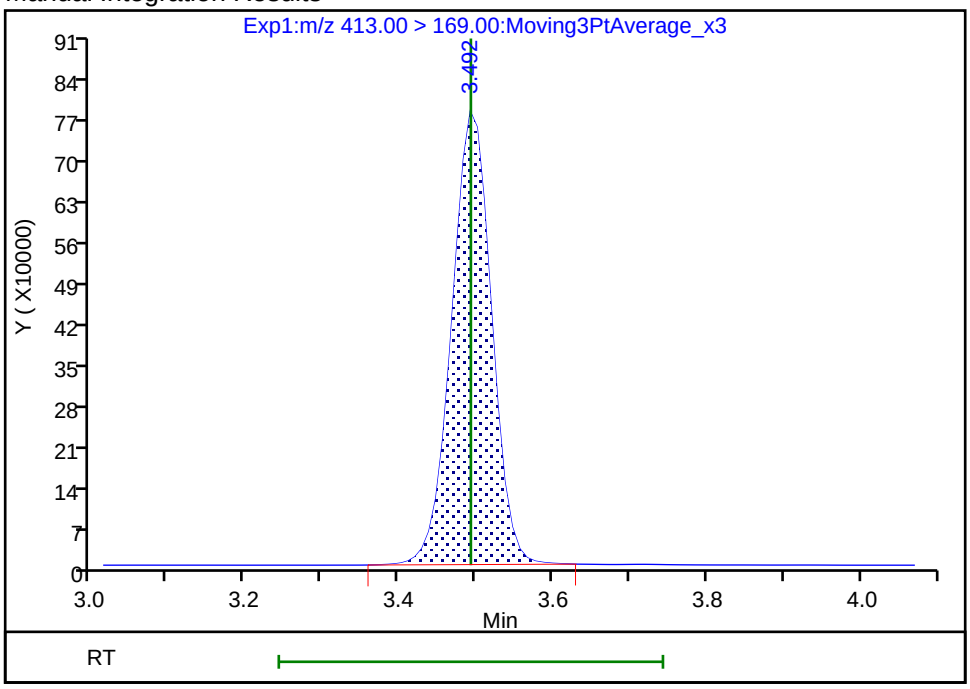
Processing Integration Results

RT: 3.49
Area: 2818415
Amount: 10.101909
Amount Units: ng/ml



Manual Integration Results

RT: 3.49
Area: 2794731
Amount: 9.960263
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:02:35

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

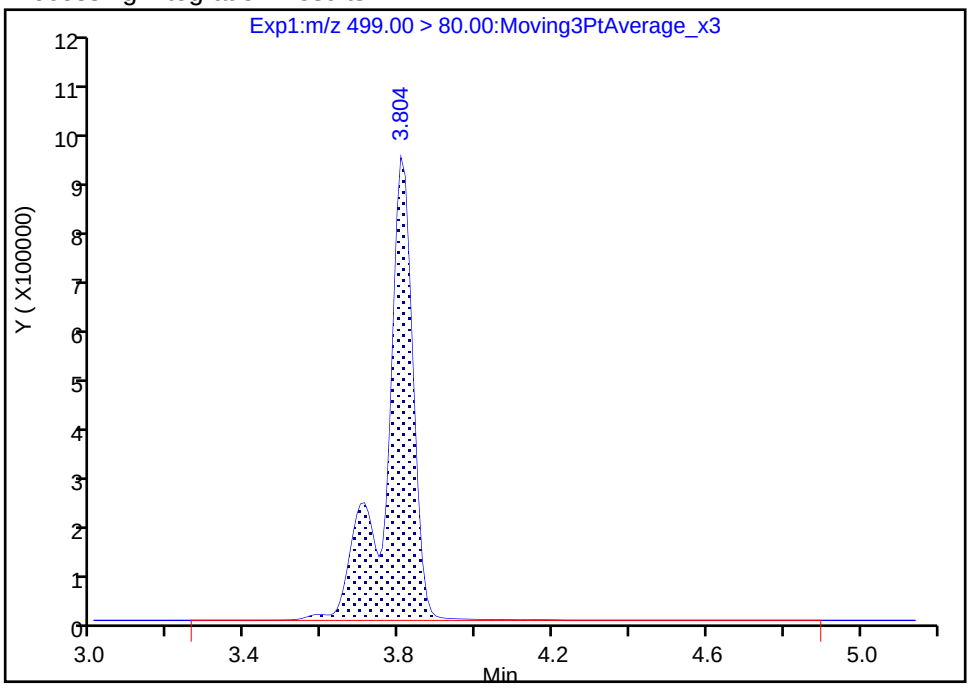
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d				
Injection Date:	22-Dec-2020 13:29:37	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

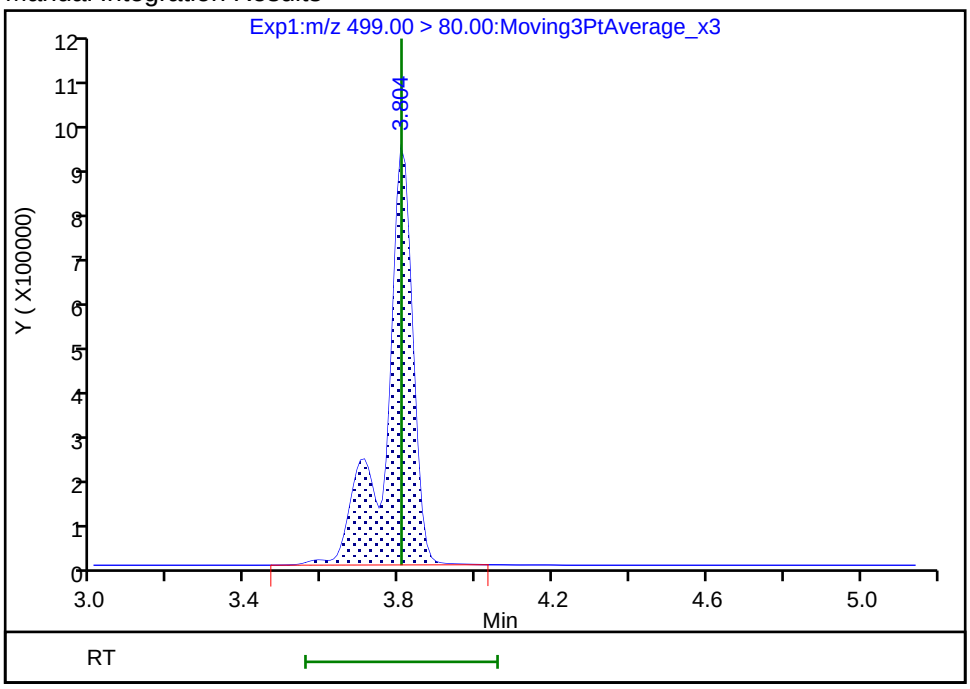
Processing Integration Results

RT: 3.80
Area: 4689022
Amount: 9.277509
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 4659375
Amount: 8.763764
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:02:44
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

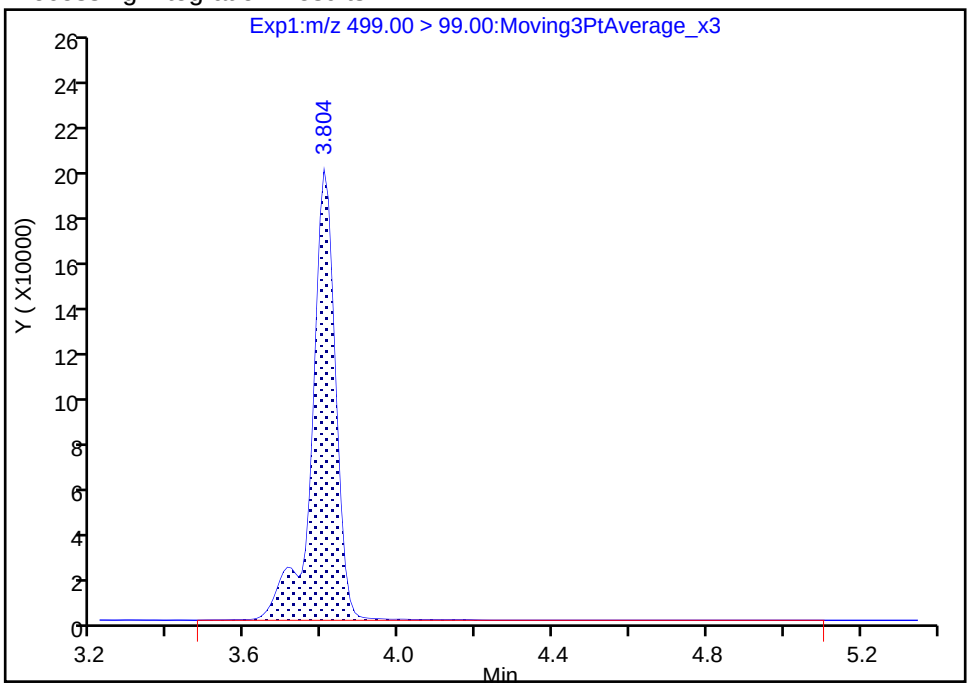
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d				
Injection Date:	22-Dec-2020 13:29:37	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

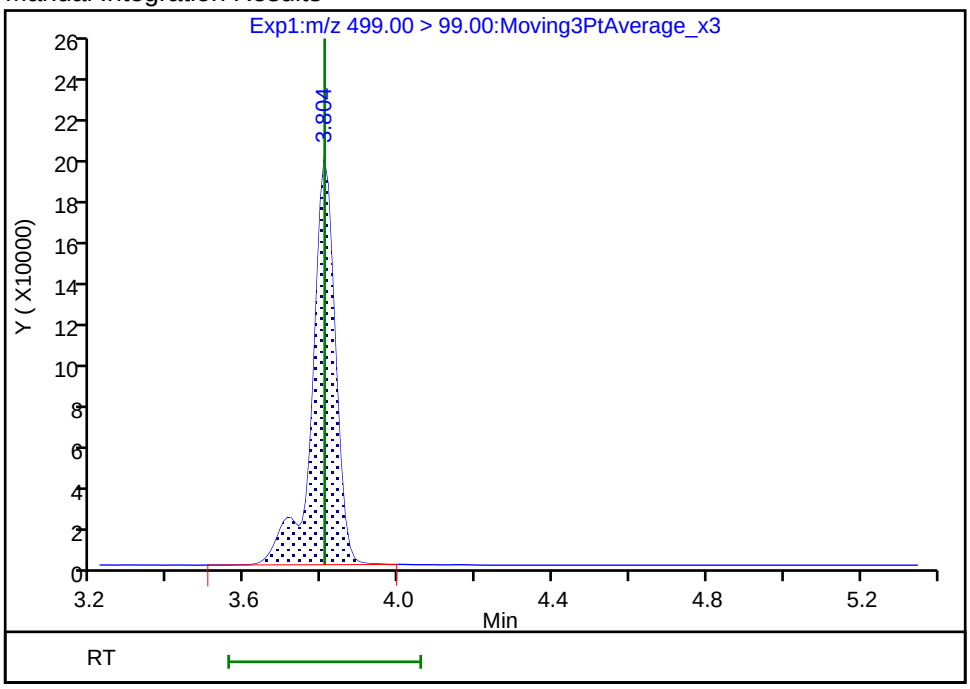
Processing Integration Results

RT: 3.80
Area: 837352
Amount: 9.277509
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 828174
Amount: 8.763764
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:02:50

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

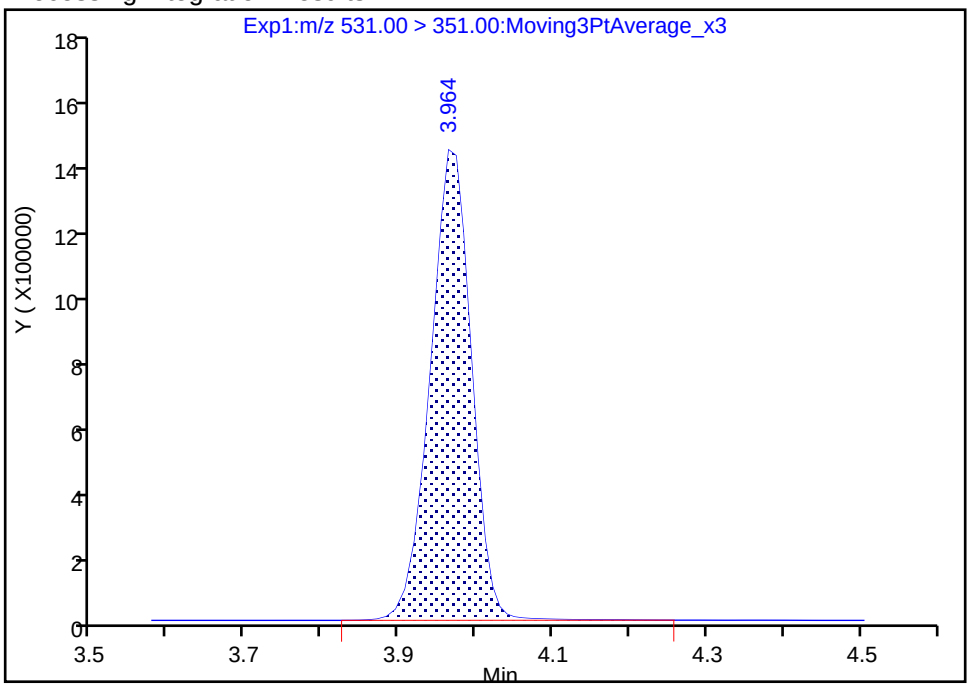
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d				
Injection Date:	22-Dec-2020 13:29:37	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

69 9-Chlorohexadecafluoro-3-oxanona, CAS: 756426-58-1

Signal: 1

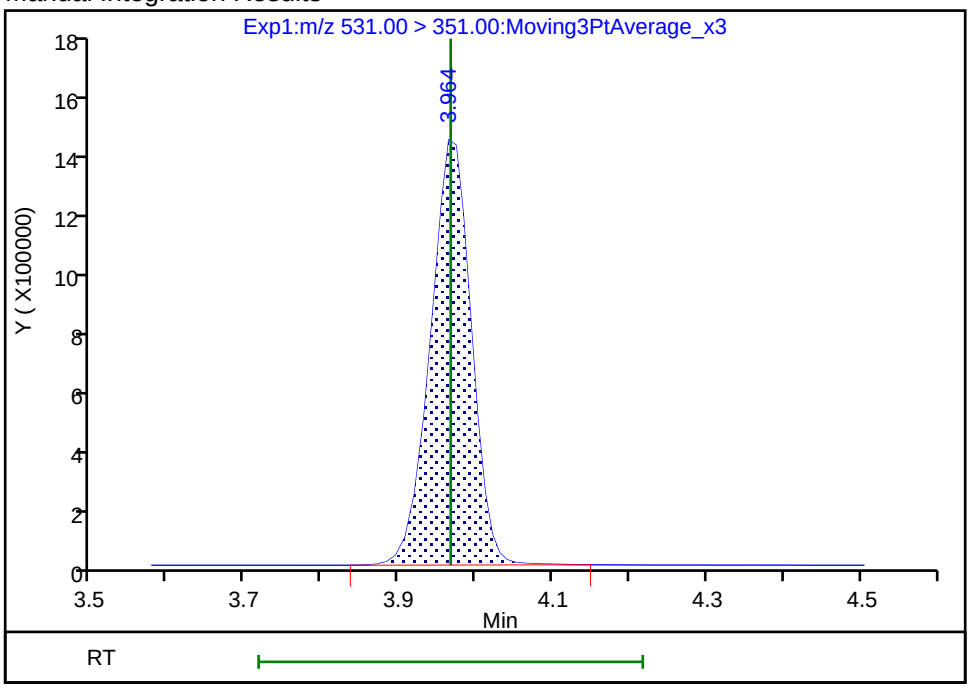
Processing Integration Results

RT: 3.96
Area: 5277681
Amount: 9.196032
Amount Units: ng/ml



Manual Integration Results

RT: 3.96
Area: 5263362
Amount: 8.872886
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:02:58
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

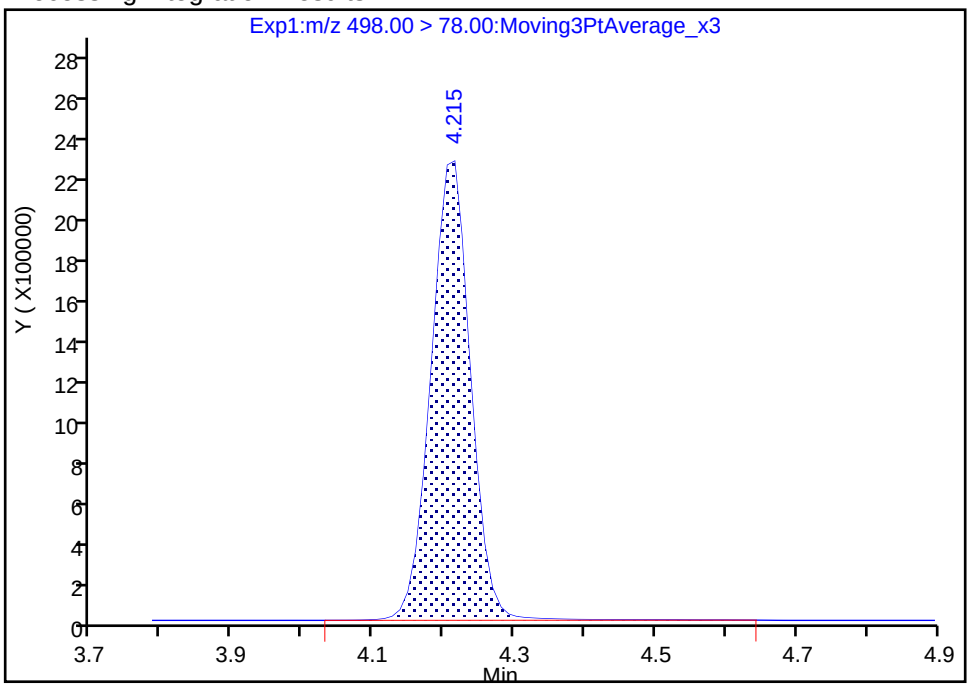
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d				
Injection Date:	22-Dec-2020 13:29:37	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

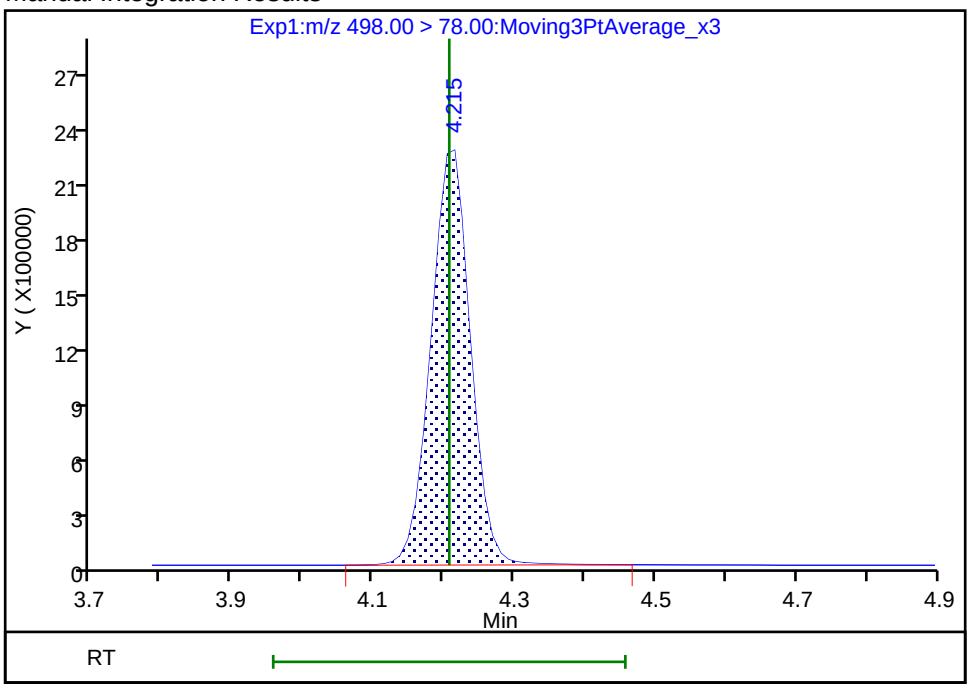
Processing Integration Results

RT: 4.21
Area: 8695535
Amount: 9.886059
Amount Units: ng/ml



Manual Integration Results

RT: 4.21
Area: 8663983
Amount: 9.723361
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:03:09
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

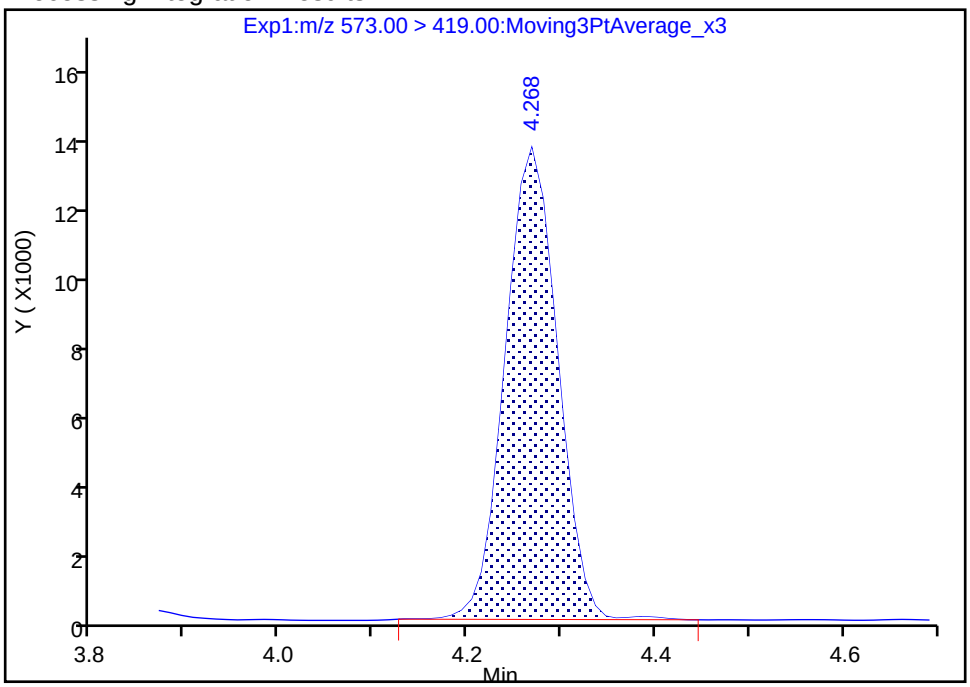
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d				
Injection Date:	22-Dec-2020 13:29:37	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

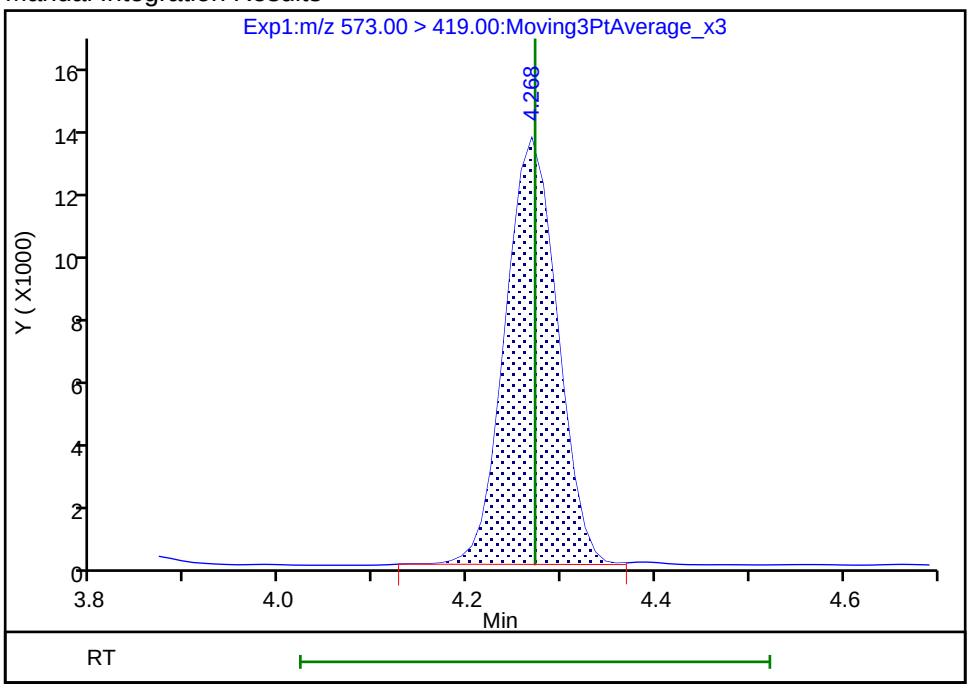
Processing Integration Results

RT: 4.27
Area: 53040
Amount: 1.285415
Amount Units: ng/ml



Manual Integration Results

RT: 4.27
Area: 52838
Amount: 1.281356
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:03:23

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

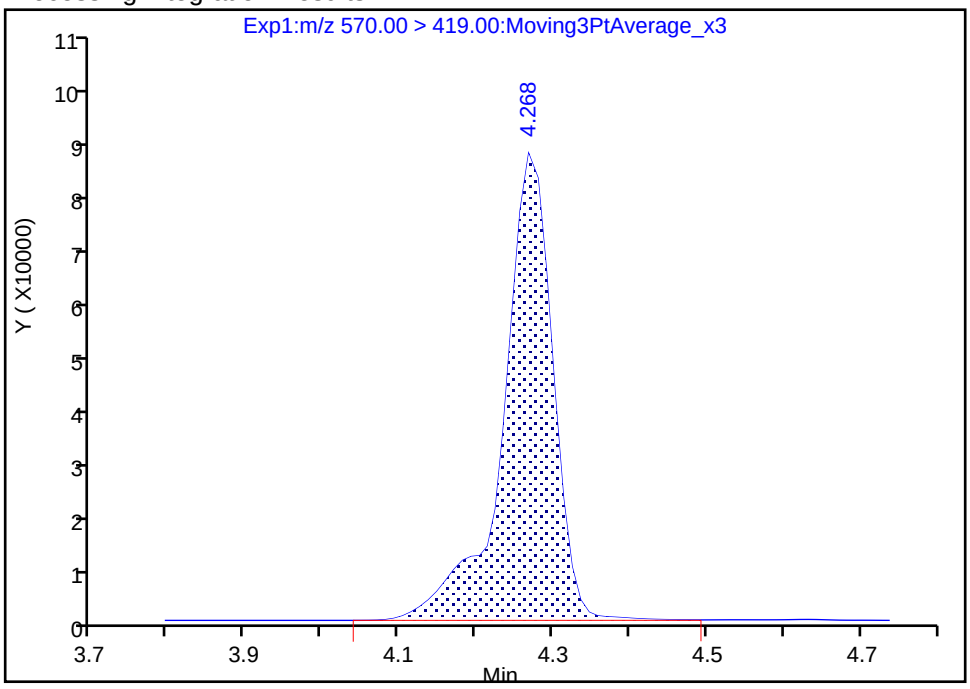
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d				
Injection Date:	22-Dec-2020 13:29:37	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

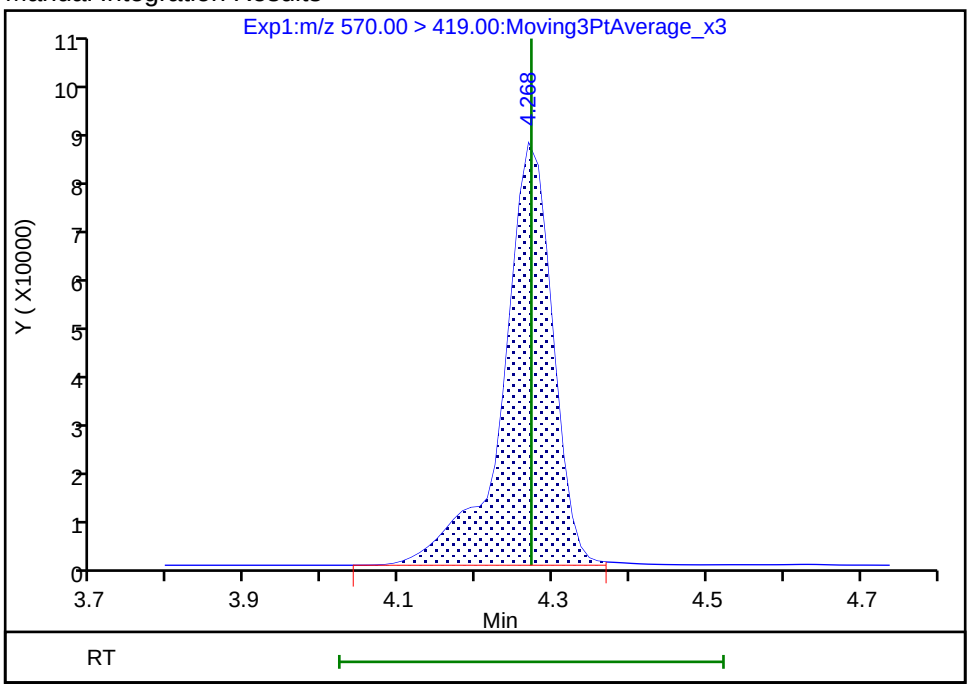
Processing Integration Results

RT: 4.27
Area: 391936
Amount: 10.110192
Amount Units: ng/ml



Manual Integration Results

RT: 4.27
Area: 390016
Amount: 10.409562
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:03:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

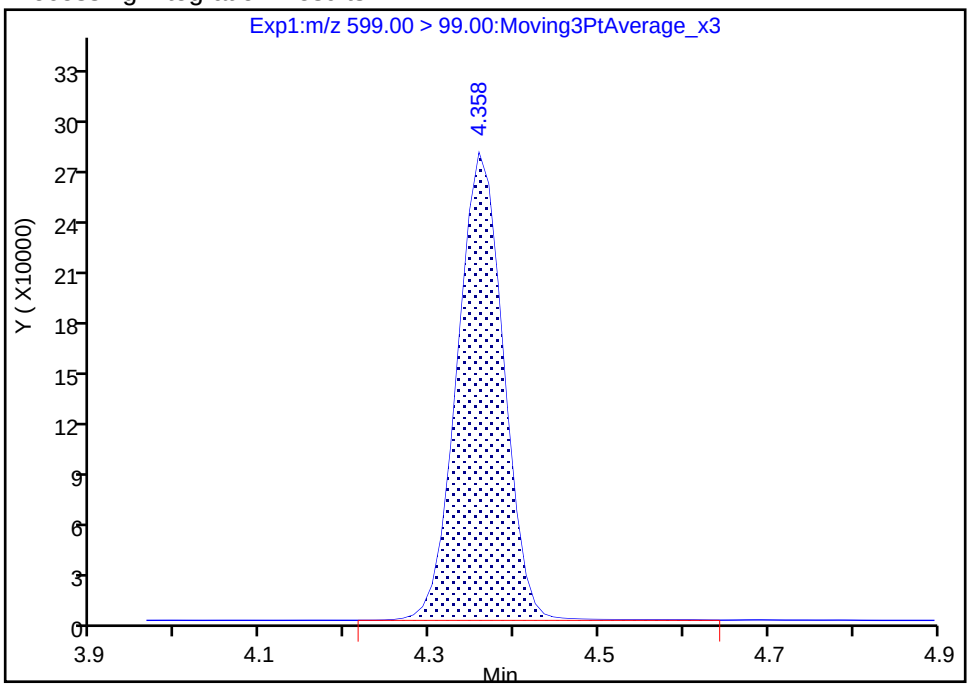
Data File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d
Injection Date: 22-Dec-2020 13:29:37 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

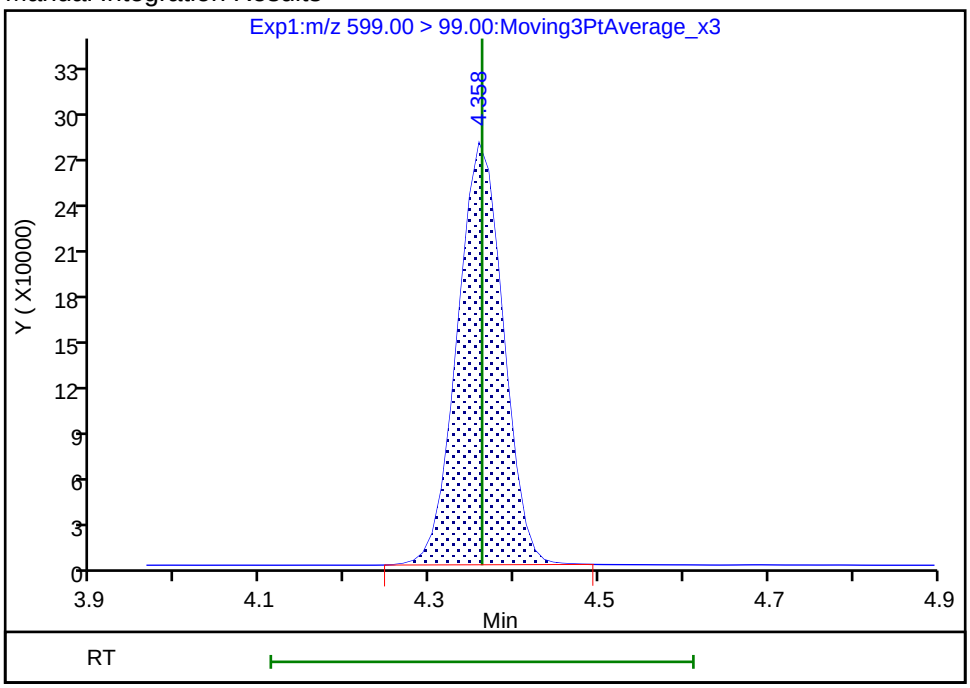
Processing Integration Results

RT: 4.36
Area: 1051372
Amount: 9.528663
Amount Units: ng/ml



Manual Integration Results

RT: 4.36
Area: 1043601
Amount: 9.160012
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:03:46
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

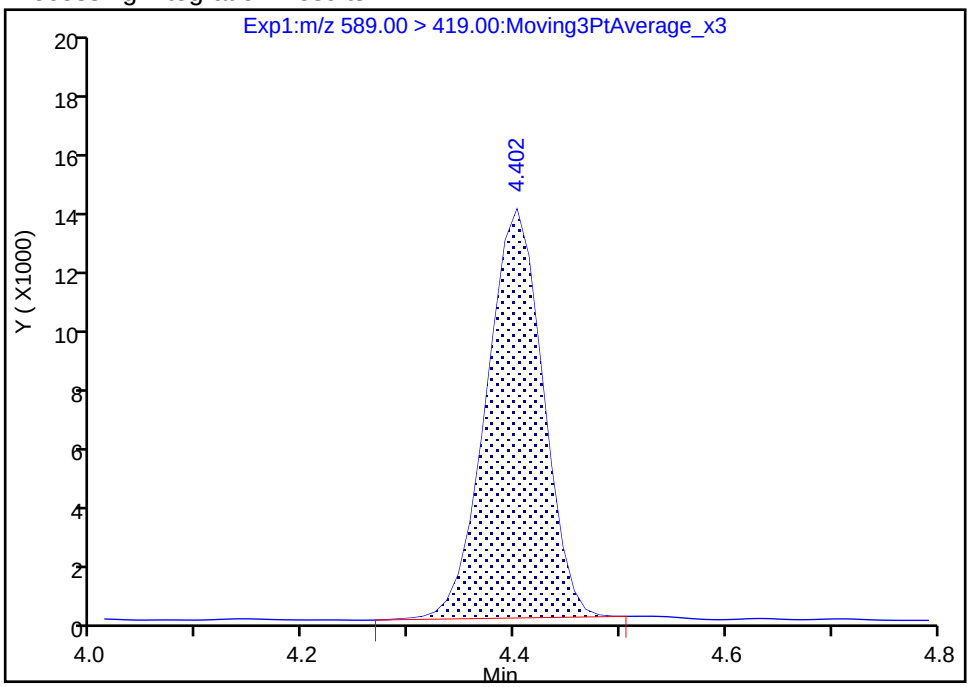
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d				
Injection Date:	22-Dec-2020 13:29:37	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 32 d5-NEtFOSAA, CAS: STL02117

Signal: 1

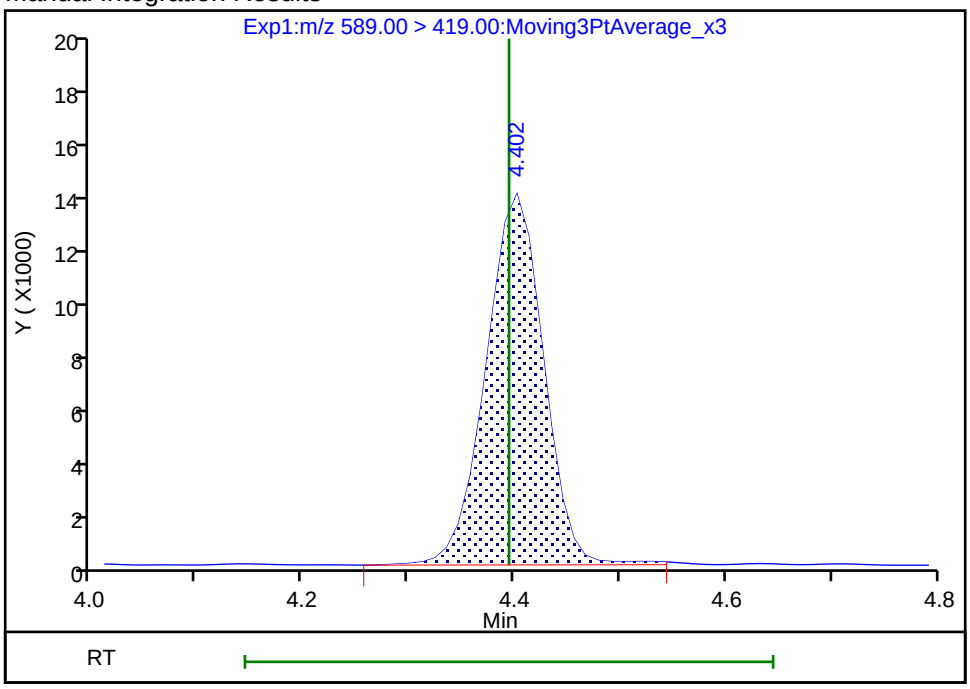
Processing Integration Results

RT: 4.40
Area: 51255
Amount: 1.290797
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 52405
Amount: 1.314682
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:04:04
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

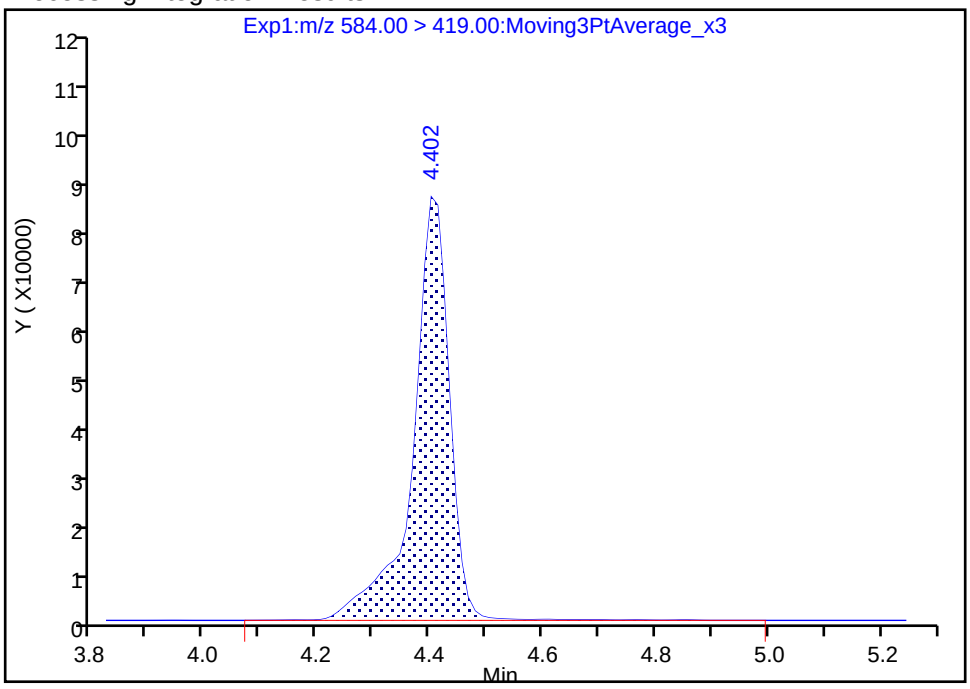
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d				
Injection Date:	22-Dec-2020 13:29:37	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

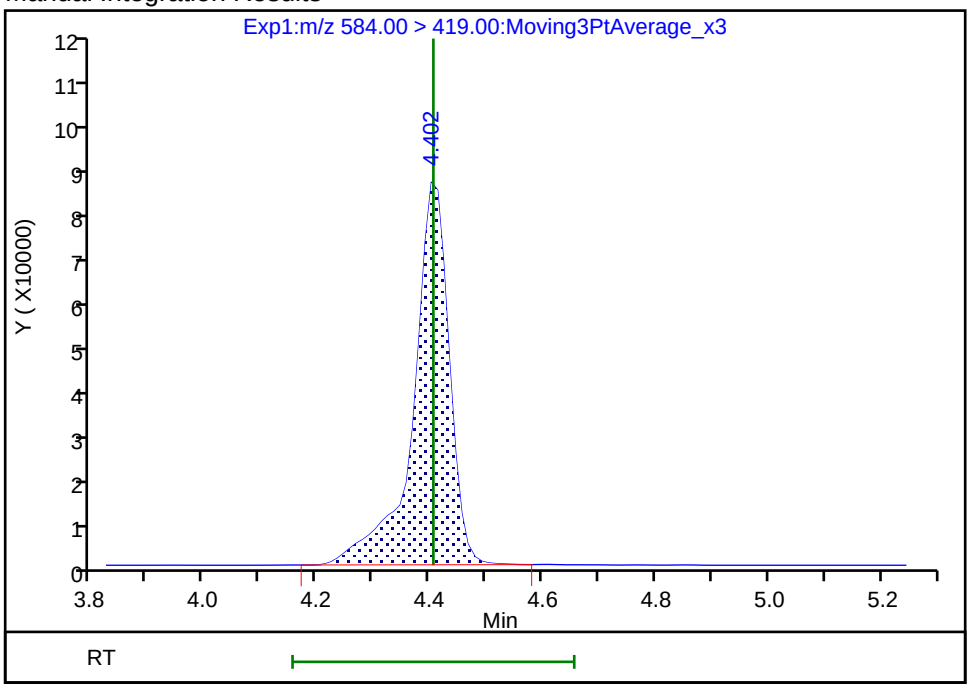
Processing Integration Results

RT: 4.40
Area: 359681
Amount: 9.767456
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 355914
Amount: 9.170908
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:04:17
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

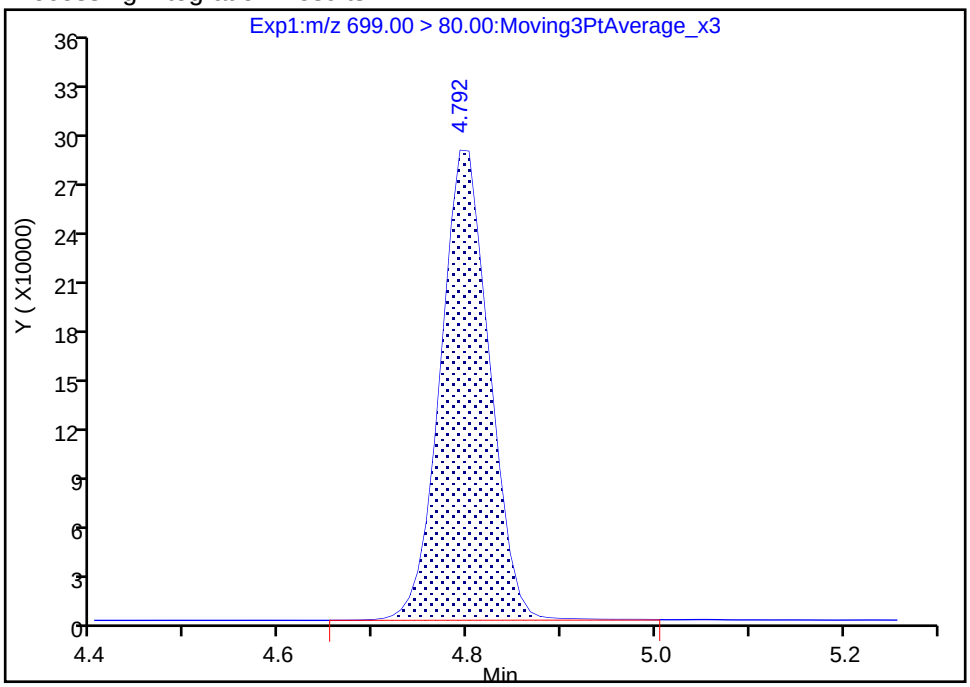
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d				
Injection Date:	22-Dec-2020 13:29:37	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 1

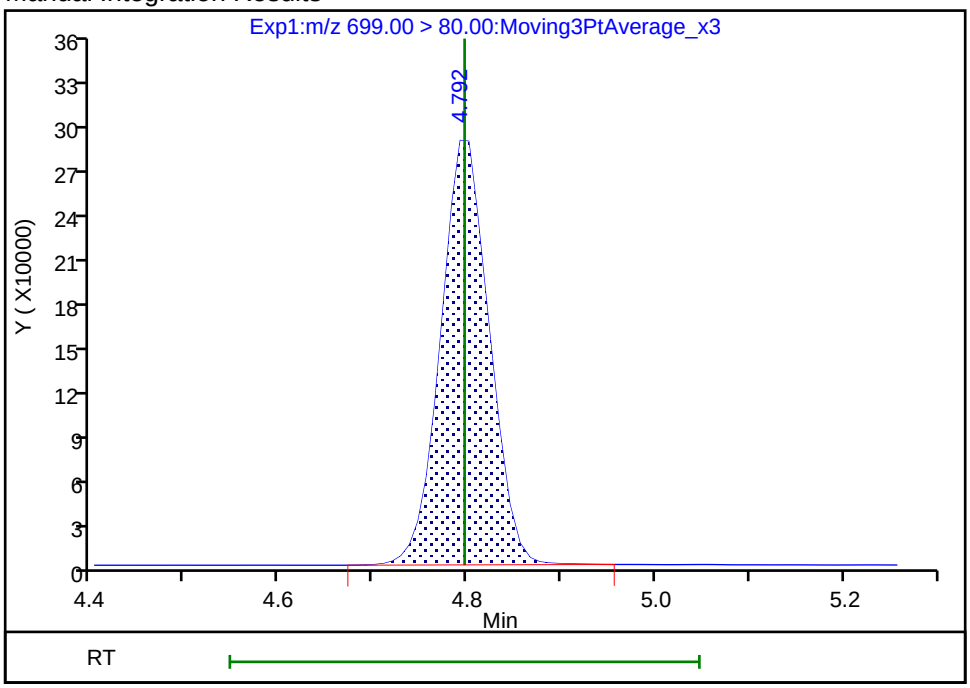
Processing Integration Results

RT: 4.79
Area: 1023317
Amount: 8.781133
Amount Units: ng/ml



Manual Integration Results

RT: 4.79
Area: 1019532
Amount: 8.762818
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:28:52
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

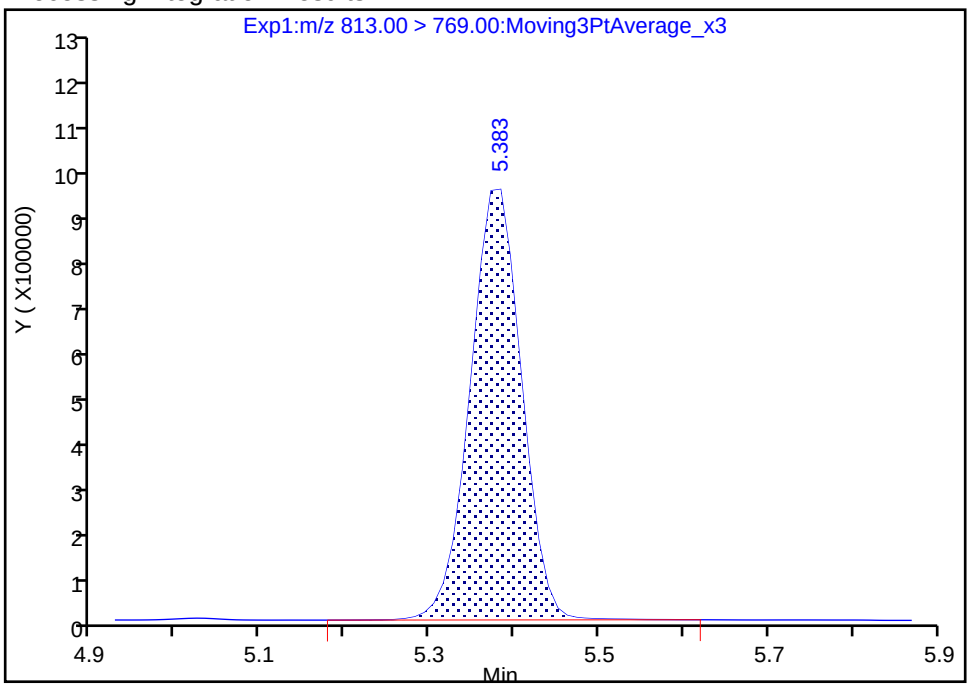
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d				
Injection Date:	22-Dec-2020 13:29:37	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

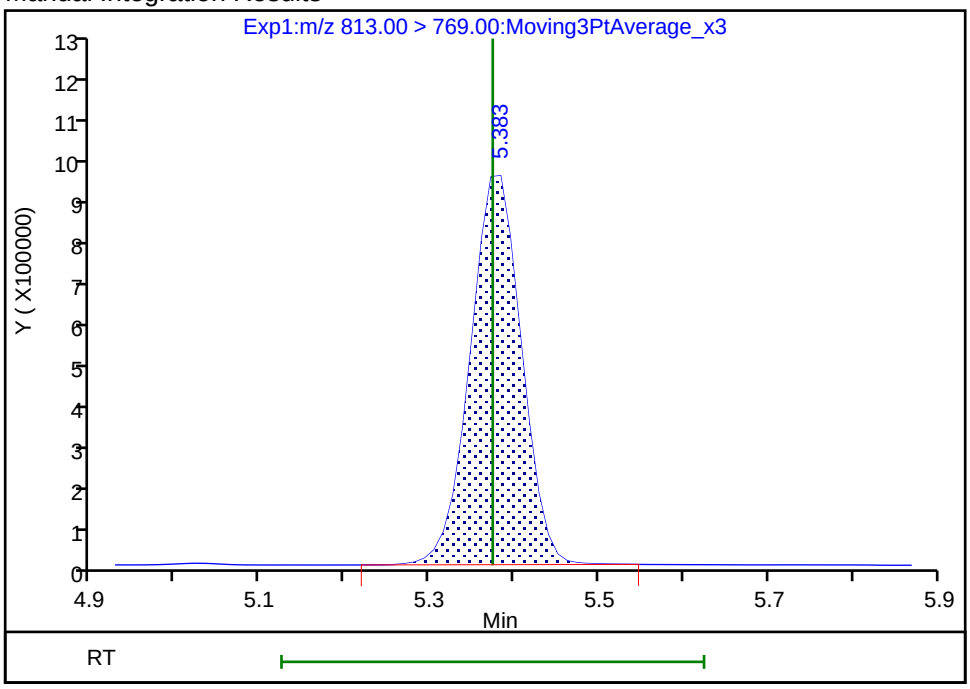
Processing Integration Results

RT: 5.38
Area: 3759052
Amount: 10.004821
Amount Units: ng/ml



Manual Integration Results

RT: 5.38
Area: 3749492
Amount: 9.998208
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:04:45
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

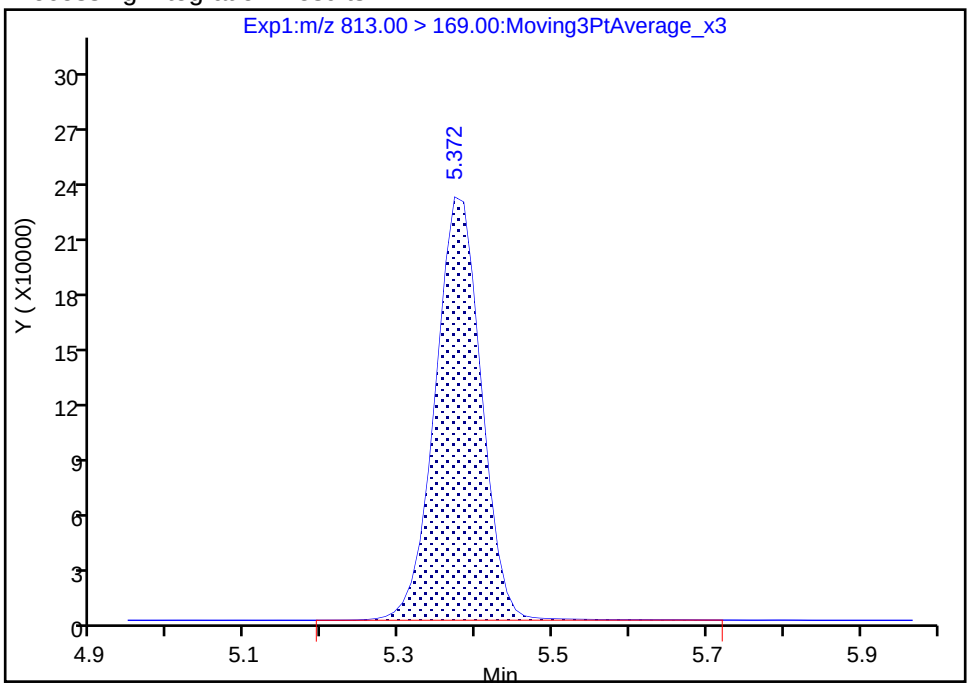
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d				
Injection Date:	22-Dec-2020 13:29:37	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

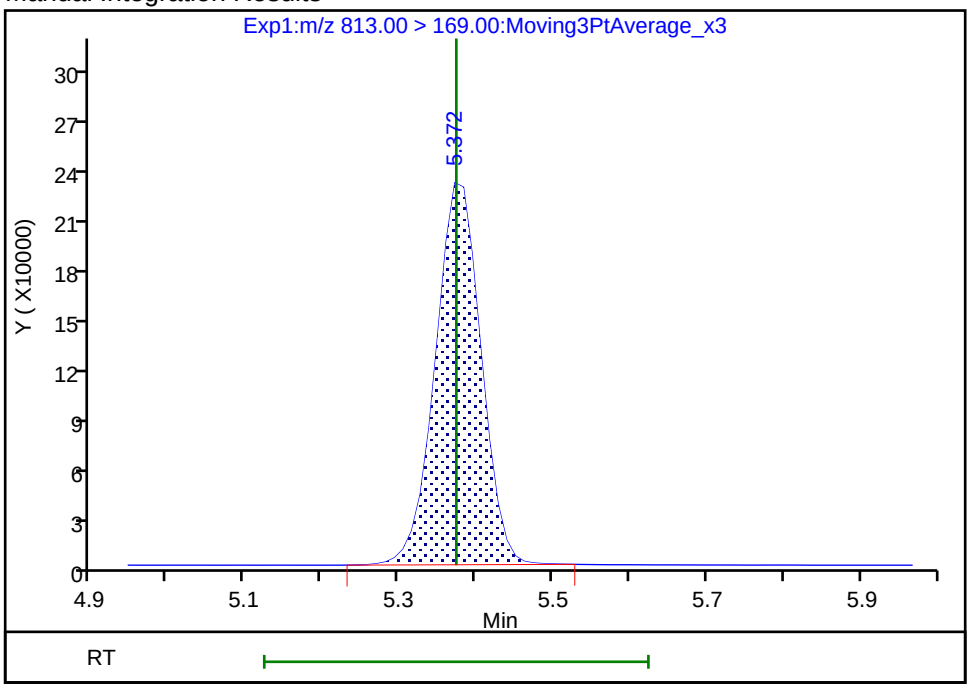
Processing Integration Results

RT: 5.37
Area: 940773
Amount: 10.004821
Amount Units: ng/ml



Manual Integration Results

RT: 5.37
Area: 935182
Amount: 9.998208
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:04:50

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Calibration / Perfluorobutanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

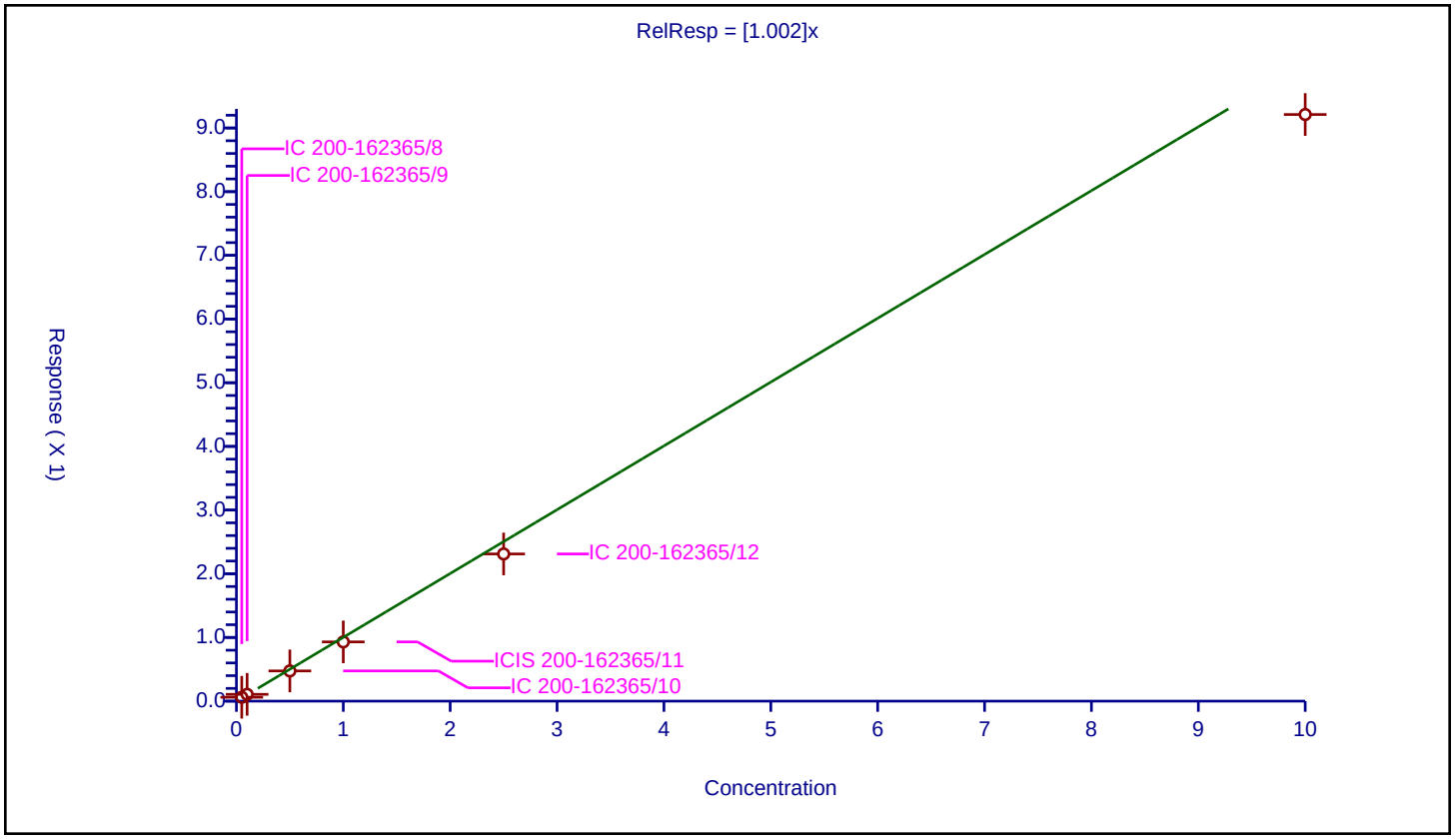
Curve Coefficients

Intercept:	0
Slope:	1.002

Error Coefficients

Standard Error:	4080000
Relative Standard Error:	12.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-162365/8	0.05	0.060945	1.25	1181985.0	1.218903	Y
2	IC 200-162365/9	0.1	0.106874	1.25	1386458.0	1.06874	Y
3	IC 200-162365/10	0.5	0.47428	1.25	1203352.0	0.948561	Y
4	ICIS 200-162365/11	1.0	0.930197	1.25	1185176.0	0.930197	Y
5	IC 200-162365/12	2.5	2.311251	1.25	1183081.0	0.924501	Y
6	IC 200-162365/13	10.0	9.211614	1.25	1192876.0	0.921161	Y



Calibration / Perfluoropentanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

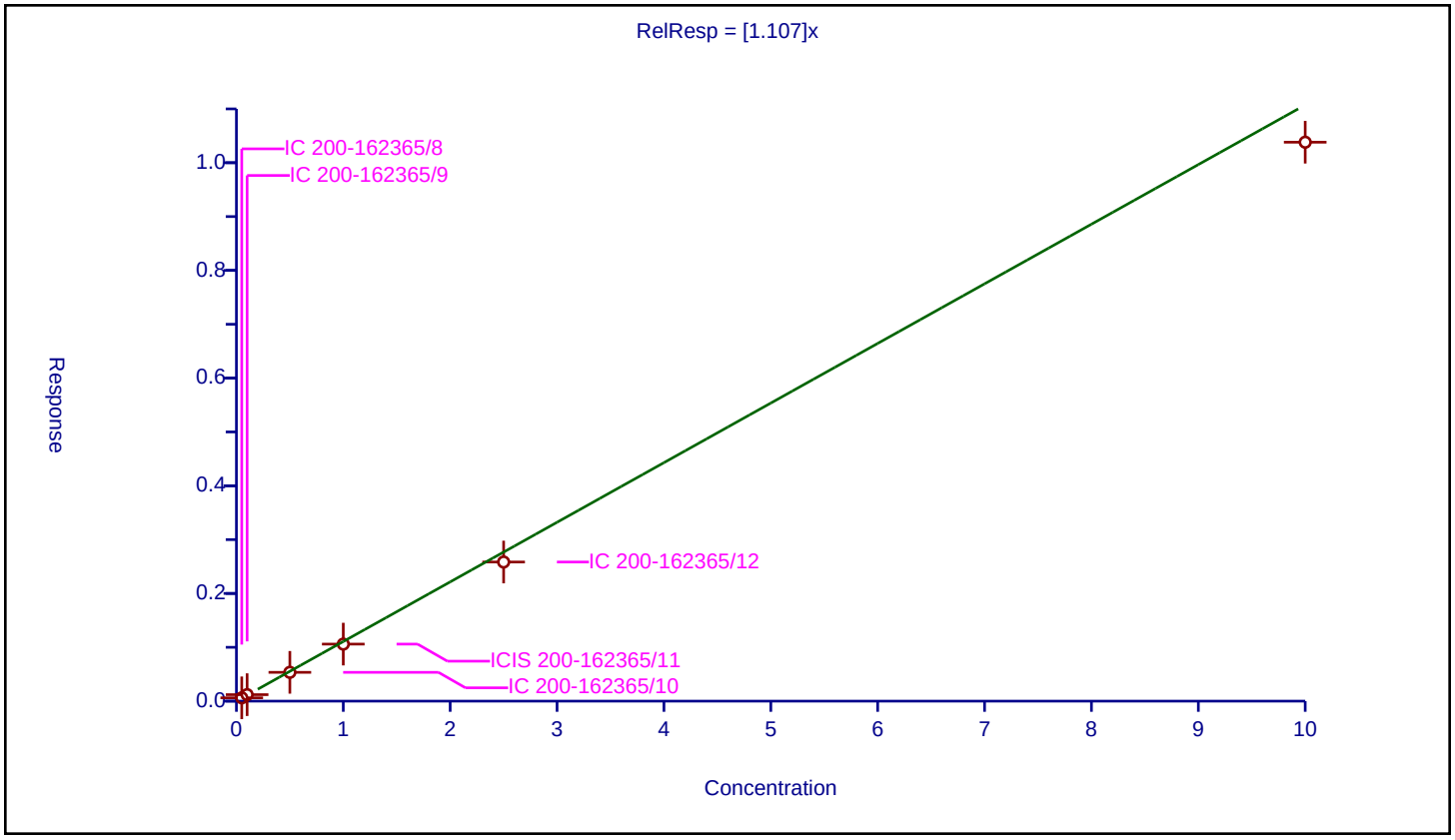
Curve Coefficients

Intercept:	0
Slope:	1.107

Error Coefficients

Standard Error:	3260000
Relative Standard Error:	8.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-162365/8	0.05	0.061795	1.25	878850.0	1.235905	Y
2	IC 200-162365/9	0.1	0.120668	1.25	1030251.0	1.206684	Y
3	IC 200-162365/10	0.5	0.535033	1.25	856461.0	1.070066	Y
4	ICIS 200-162365/11	1.0	1.059271	1.25	843580.0	1.059271	Y
5	IC 200-162365/12	2.5	2.584107	1.25	850273.0	1.033643	Y
6	IC 200-162365/13	10.0	10.381386	1.25	847223.0	1.038139	Y



Calibration / Perfluorobutanesulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

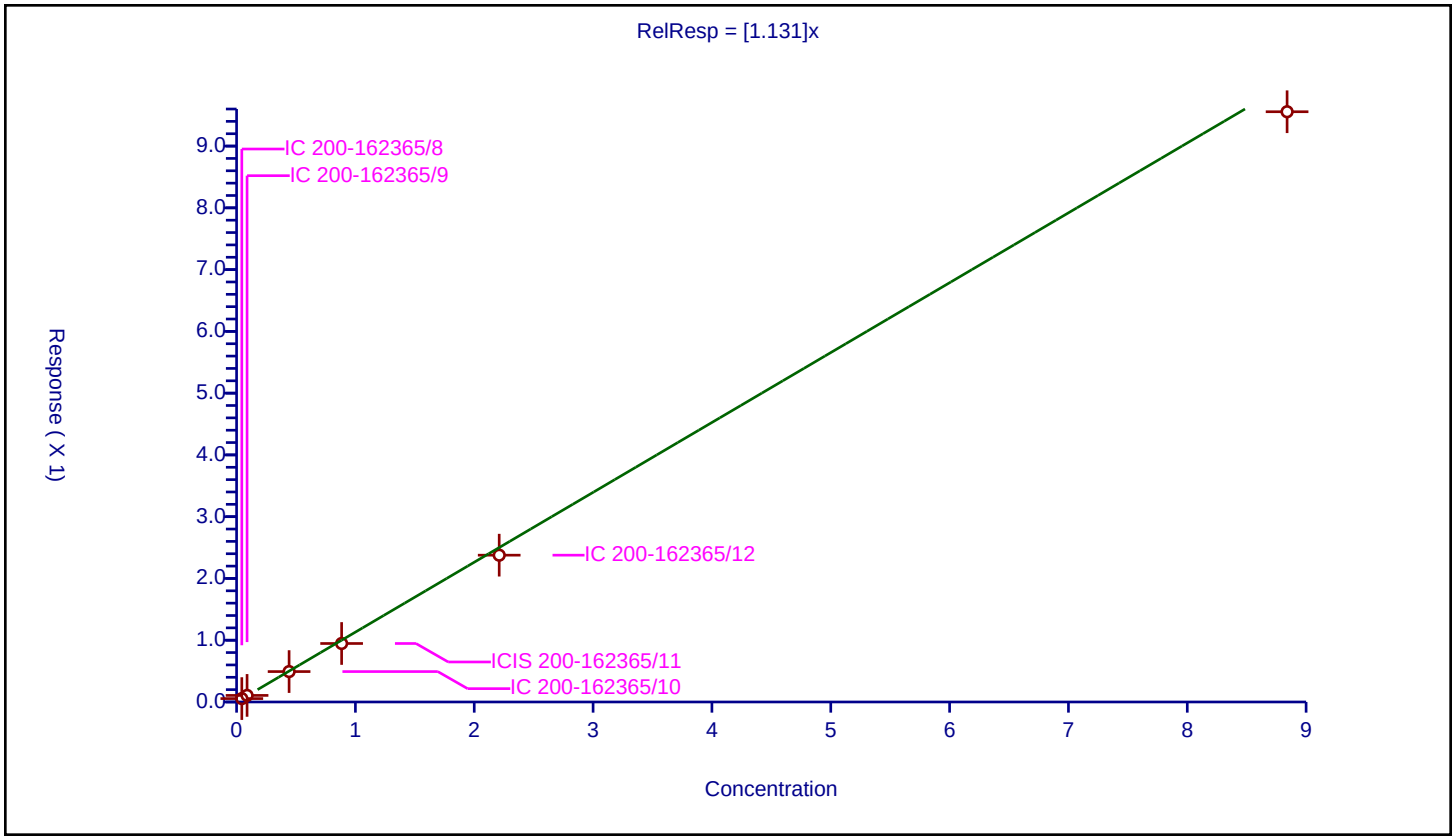
Curve Coefficients

Intercept:	0
Slope:	1.131

Error Coefficients

Standard Error:	4060000
Relative Standard Error:	6.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-162365/8	0.0442	0.054939	1.1625	1024342.0	1.24297	Y
2	IC 200-162365/9	0.0884	0.106321	1.1625	1277928.0	1.202727	Y
3	IC 200-162365/10	0.442	0.492521	1.1625	1038343.0	1.114301	Y
4	ICIS 200-162365/11	0.884	0.947054	1.1625	1062494.0	1.071328	Y
5	IC 200-162365/12	2.21	2.376755	1.1625	1027240.0	1.075455	Y
6	IC 200-162365/13	8.84	9.556022	1.1625	1066974.0	1.080998	Y



Calibration / 1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

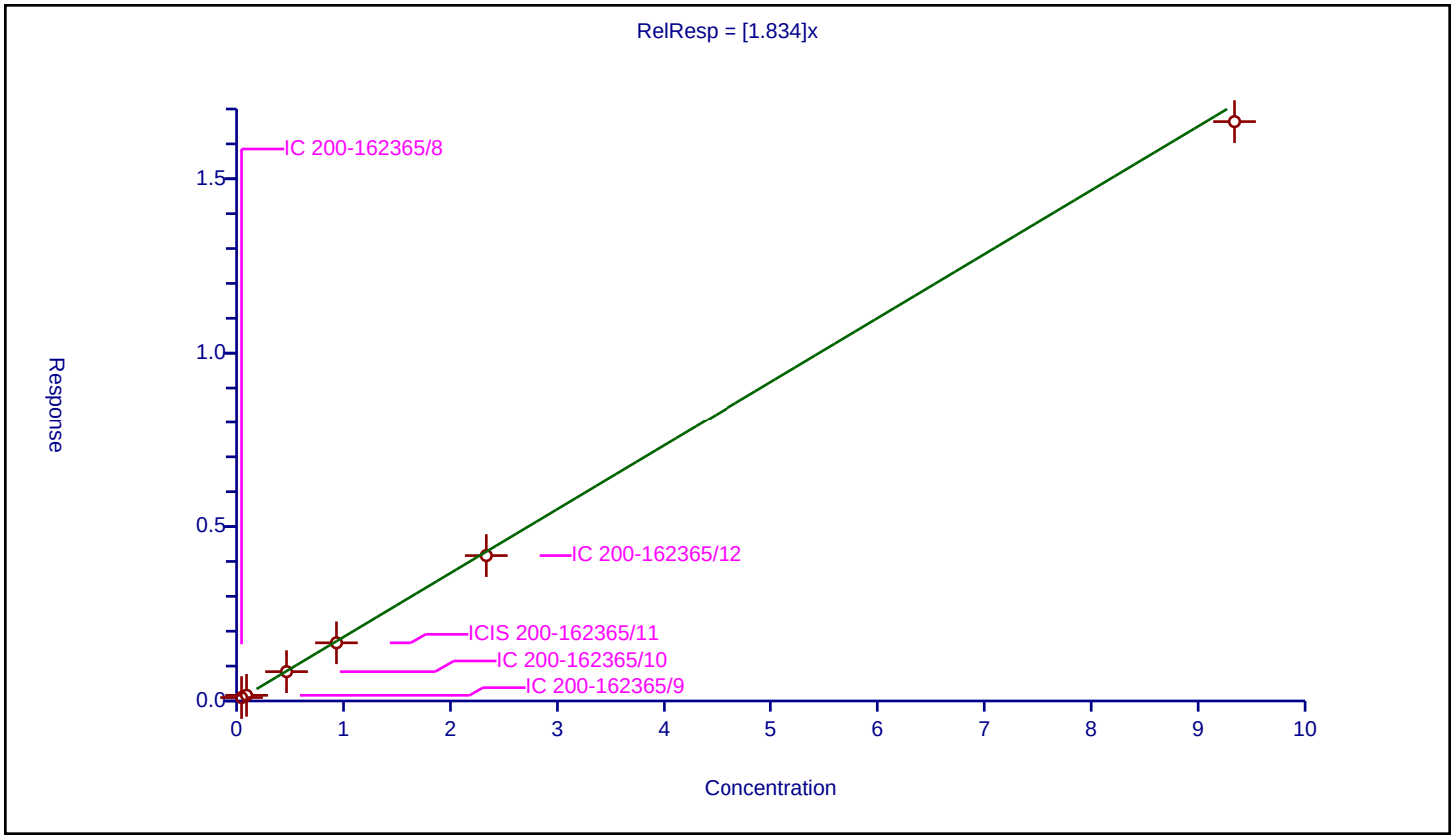
Curve Coefficients

Intercept:	0
Slope:	1.834

Error Coefficients

Standard Error:	581000
Relative Standard Error:	7.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-162365/8	0.0467	0.098521	1.1675	87206.0	2.10966	Y
2	IC 200-162365/9	0.0934	0.162478	1.1675	113101.0	1.739596	Y
3	IC 200-162365/10	0.467	0.841177	1.1675	85984.0	1.801236	Y
4	ICIS 200-162365/11	0.934	1.667486	1.1675	86339.0	1.785317	Y
5	IC 200-162365/12	2.335	4.168377	1.1675	85003.0	1.785172	Y
6	IC 200-162365/13	9.34	16.638782	1.1675	88021.0	1.781454	Y



Calibration / Perfluorohexanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

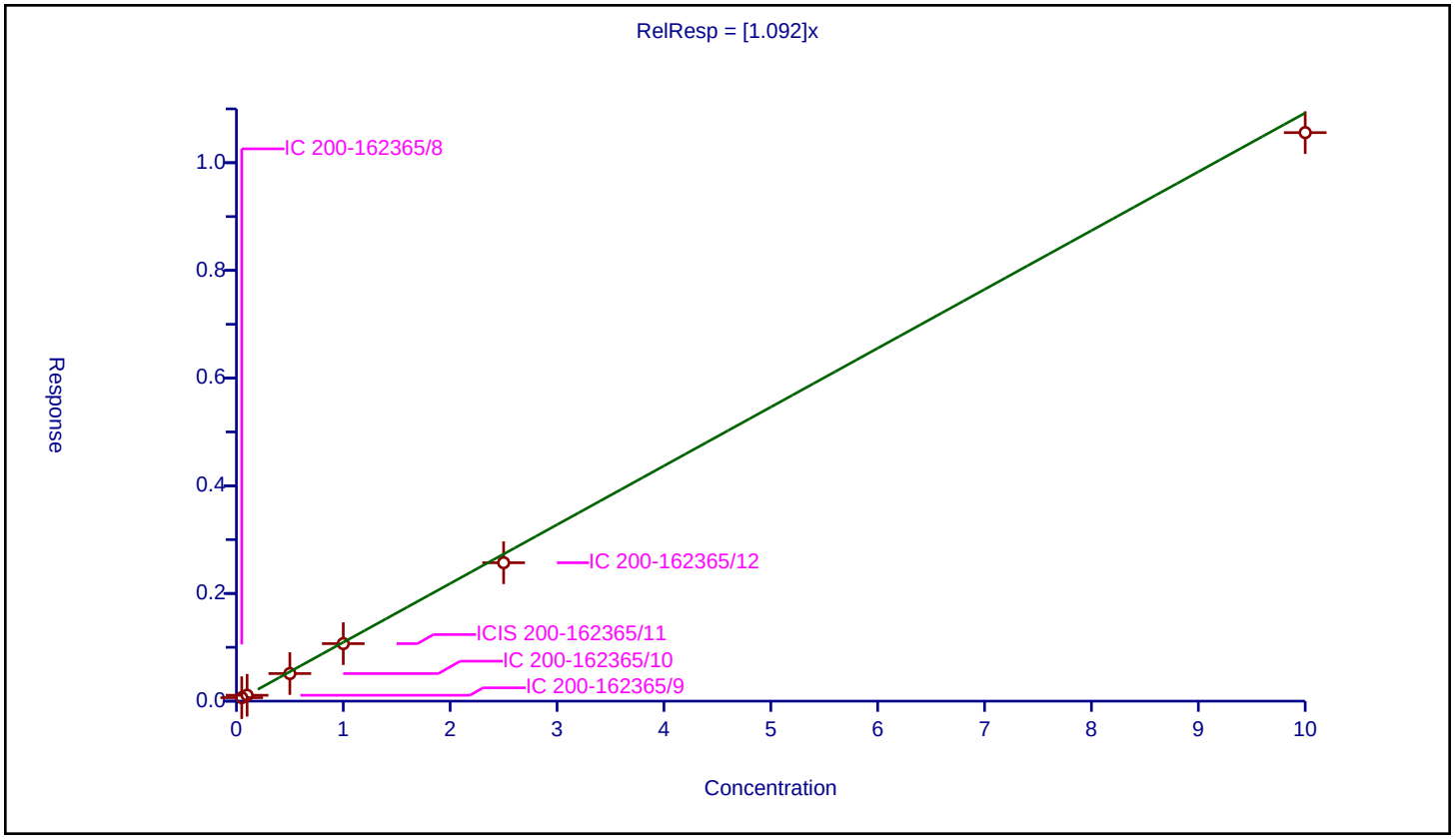
Curve Coefficients

Intercept:	0
Slope:	1.092

Error Coefficients

Standard Error:	3400000
Relative Standard Error:	9.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-162365/8	0.05	0.064447	1.25	908776.0	1.288931	Y
2	IC 200-162365/9	0.1	0.108929	1.25	1097468.0	1.089291	Y
3	IC 200-162365/10	0.5	0.512061	1.25	903699.0	1.024121	Y
4	ICIS 200-162365/11	1.0	1.068085	1.25	895585.0	1.068085	Y
5	IC 200-162365/12	2.5	2.570832	1.25	894513.0	1.028333	Y
6	IC 200-162365/13	10.0	10.559204	1.25	866171.0	1.05592	Y



Calibration / Perfluoropentanesulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

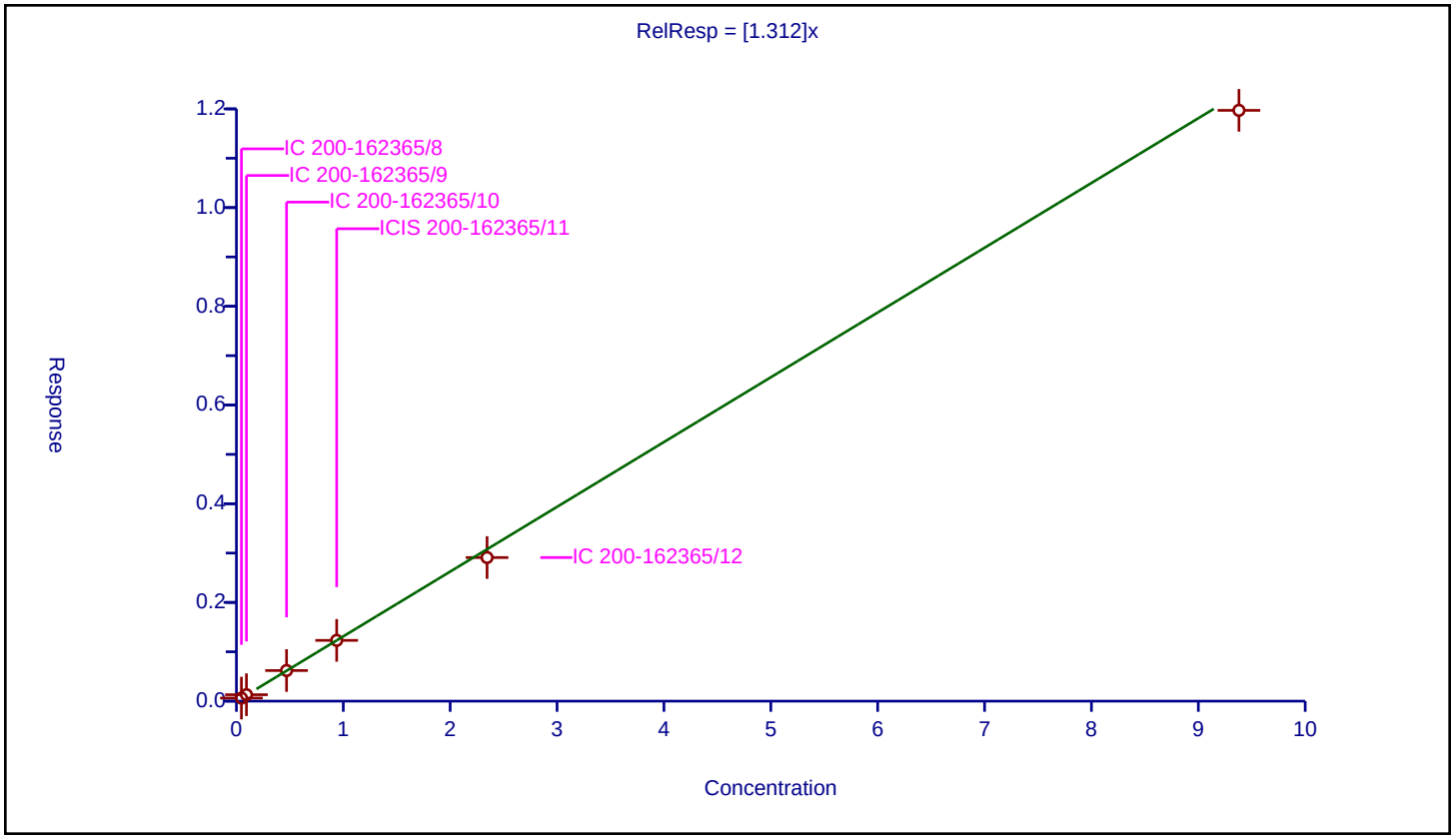
Curve Coefficients

Intercept:	0
Slope:	1.312

Error Coefficients

Standard Error:	3750000
Relative Standard Error:	3.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-162365/8	0.0469	0.062457	1.1825	822695.0	1.331709	Y
2	IC 200-162365/9	0.0938	0.130386	1.1825	956077.0	1.390044	Y
3	IC 200-162365/10	0.469	0.620386	1.1825	772740.0	1.322785	Y
4	ICIS 200-162365/11	0.938	1.231107	1.1825	769056.0	1.31248	Y
5	IC 200-162365/12	2.345	2.909633	1.1825	794776.0	1.240782	Y
6	IC 200-162365/13	9.38	11.970309	1.1825	801639.0	1.276152	Y



Calibration / Perfluoro(2-propoxypropanoic) acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

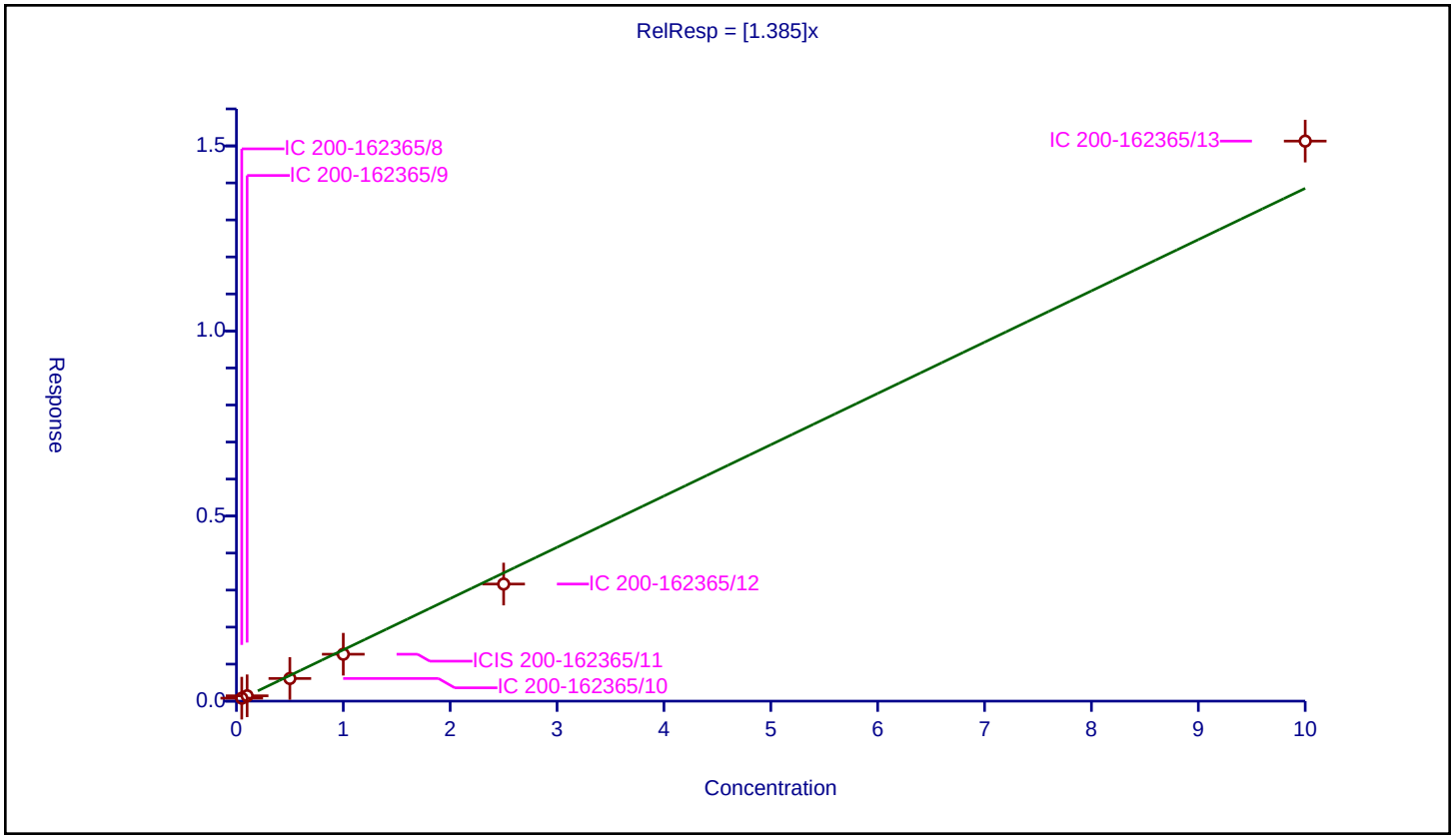
Curve Coefficients

Intercept:	0
Slope:	1.385

Error Coefficients

Standard Error:	782000
Relative Standard Error:	11.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-162365/8	0.05	0.080143	1.25	155222.0	1.602866	Y
2	IC 200-162365/9	0.1	0.143947	1.25	185233.0	1.439471	Y
3	IC 200-162365/10	0.5	0.611974	1.25	172775.0	1.223947	Y
4	ICIS 200-162365/11	1.0	1.26779	1.25	167297.0	1.26779	Y
5	IC 200-162365/12	2.5	3.163211	1.25	158496.0	1.265284	Y
6	IC 200-162365/13	10.0	15.129727	1.25	139707.0	1.512973	Y



Calibration / Perfluorohexanesulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

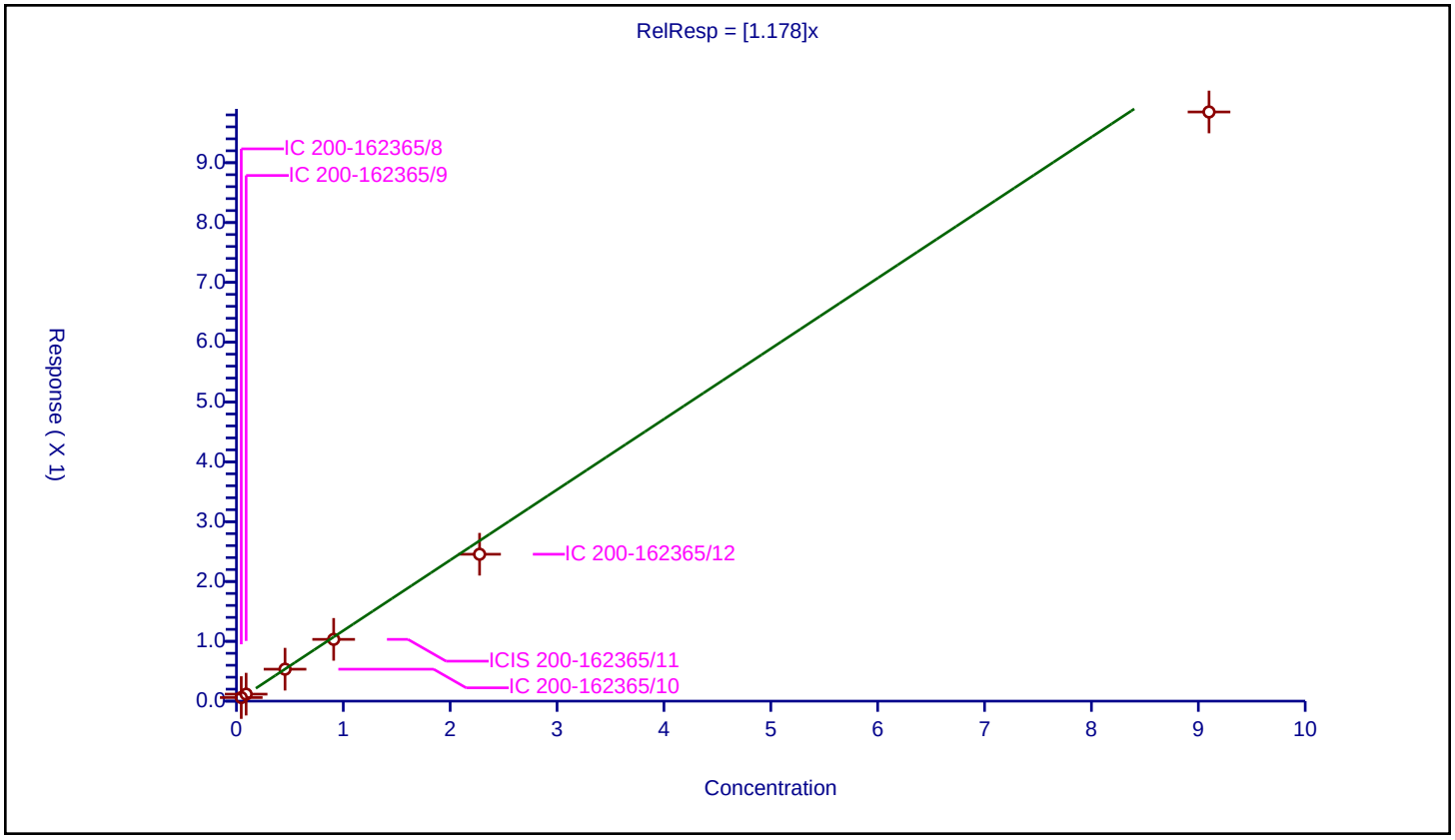
Curve Coefficients

Intercept:	0
Slope:	1.178

Error Coefficients

Standard Error:	3090000
Relative Standard Error:	8.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-162365/8	0.0455	0.059891	1.1825	822695.0	1.316296	Y
2	IC 200-162365/9	0.091	0.11689	1.1825	956077.0	1.284504	Y
3	IC 200-162365/10	0.455	0.534038	1.1825	772740.0	1.17371	Y
4	ICIS 200-162365/11	0.91	1.032607	1.1825	769056.0	1.134733	Y
5	IC 200-162365/12	2.275	2.455569	1.1825	794776.0	1.079371	Y
6	IC 200-162365/13	9.1	9.848762	1.1825	801639.0	1.082282	Y



Calibration / Perfluoroheptanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

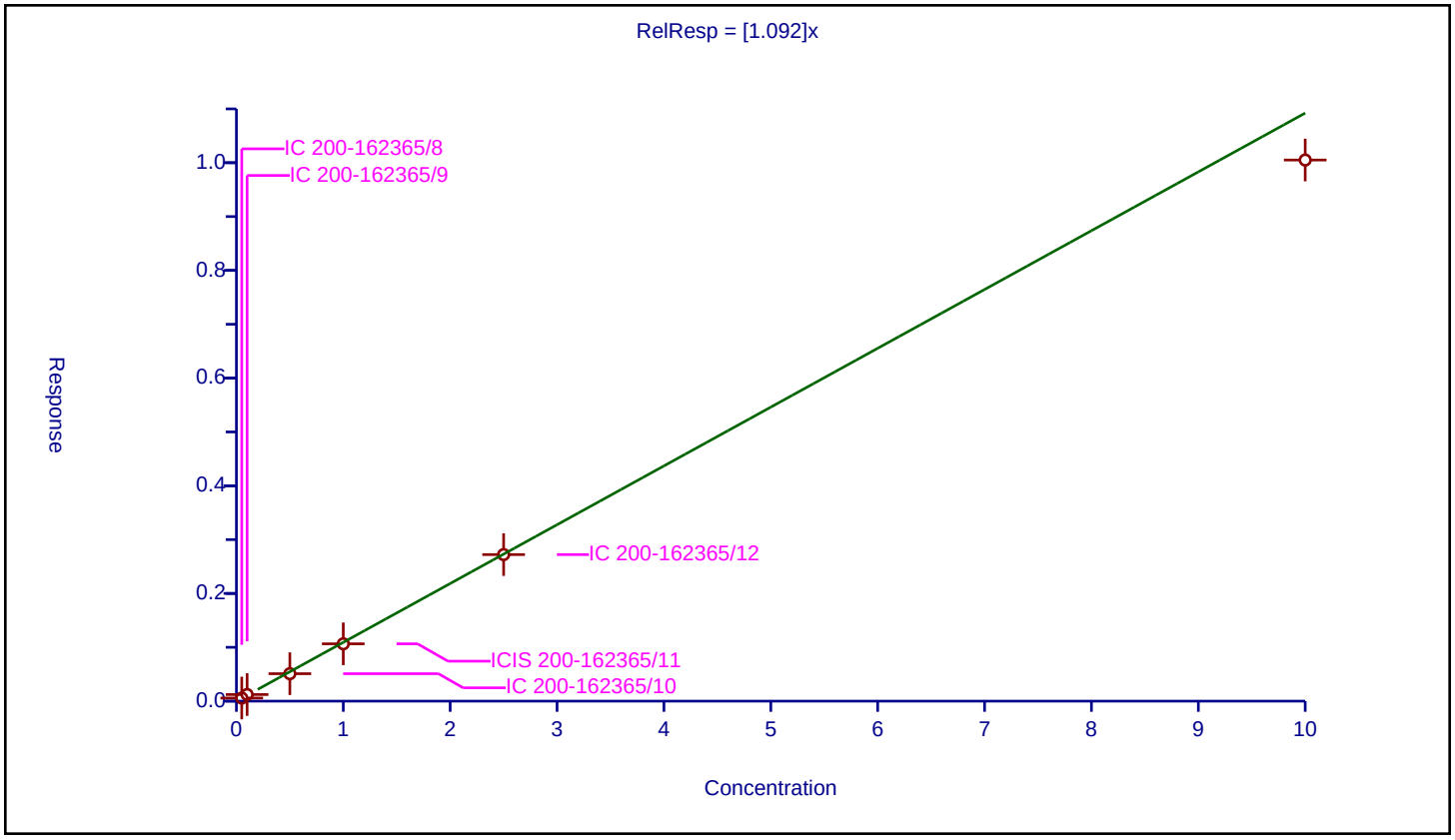
Curve Coefficients

Intercept:	0
Slope:	1.092

Error Coefficients

Standard Error:	3240000
Relative Standard Error:	7.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-162365/8	0.05	0.057494	1.25	853376.0	1.149874	Y
2	IC 200-162365/9	0.1	0.122479	1.25	1019298.0	1.224789	Y
3	IC 200-162365/10	0.5	0.509961	1.25	892830.0	1.019923	Y
4	ICIS 200-162365/11	1.0	1.064909	1.25	849594.0	1.064909	Y
5	IC 200-162365/12	2.5	2.721915	1.25	838035.0	1.088766	Y
6	IC 200-162365/13	10.0	10.050283	1.25	866766.0	1.005028	Y



Calibration / DONA

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

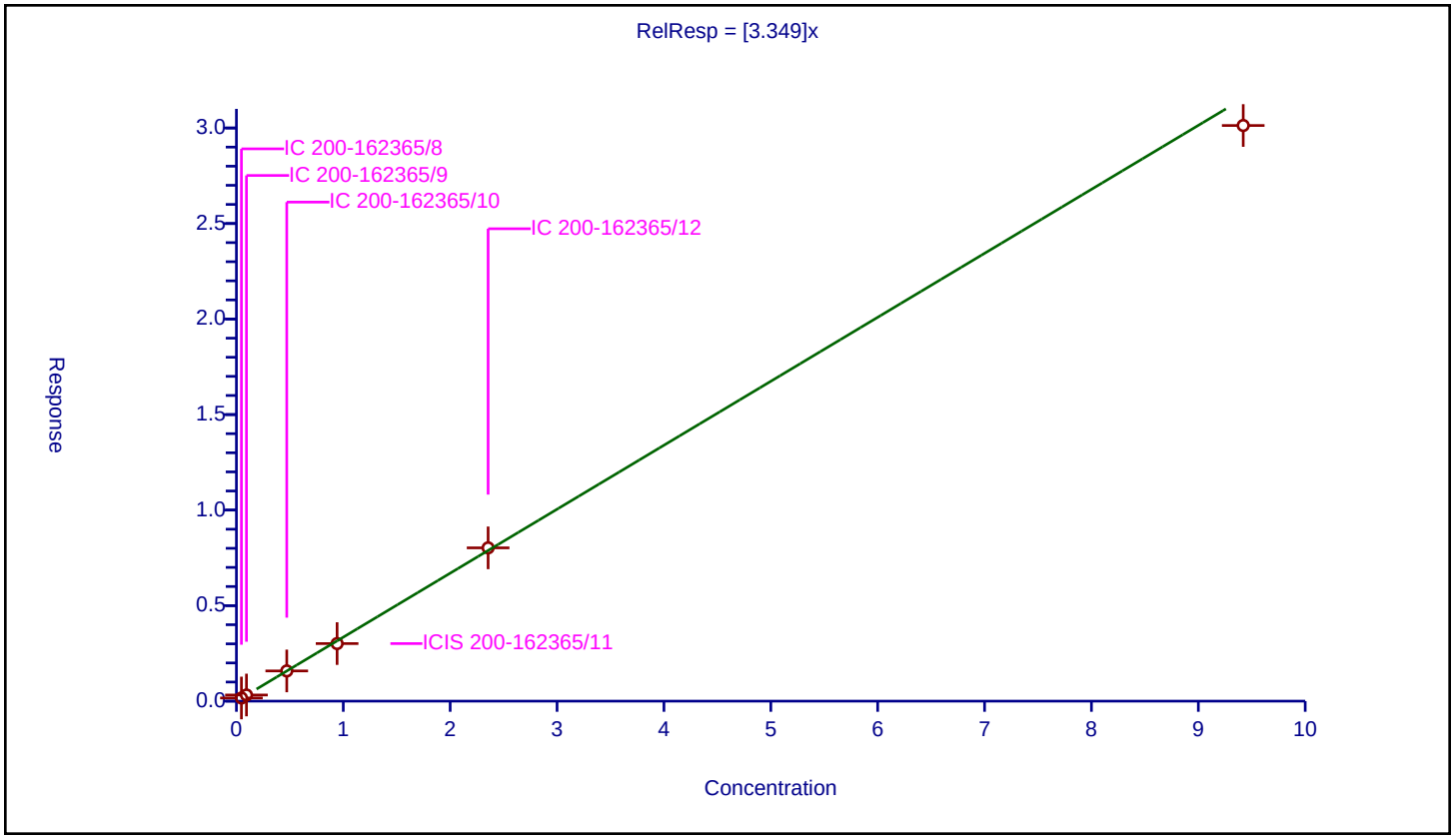
Curve Coefficients

Intercept:	0
Slope:	3.349

Error Coefficients

Standard Error:	6470000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-162365/8	0.0471	0.165785	1.195	552776.0	3.519859	Y
2	IC 200-162365/9	0.0942	0.321191	1.195	682230.0	3.409668	Y
3	IC 200-162365/10	0.471	1.581185	1.195	543196.0	3.35708	Y
4	ICIS 200-162365/11	0.942	3.013665	1.195	554310.0	3.19922	Y
5	IC 200-162365/12	2.355	8.023155	1.195	529467.0	3.40686	Y
6	IC 200-162365/13	9.42	30.130557	1.195	552420.0	3.198573	Y



Calibration / Perfluoroheptanesulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

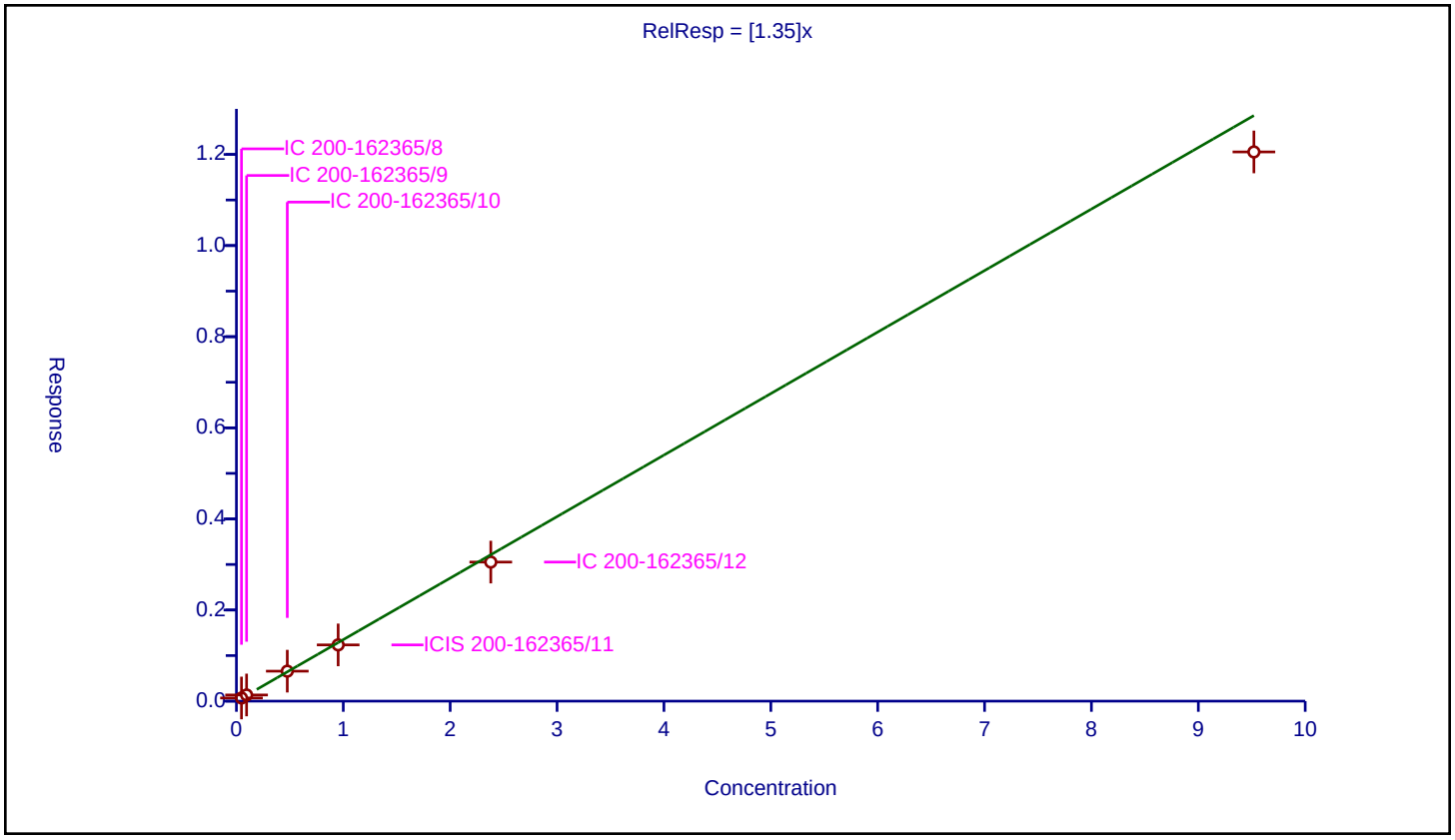
Curve Coefficients

Intercept:	0
Slope:	1.35

Error Coefficients

Standard Error:	2580000
Relative Standard Error:	5.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-162365/8	0.0476	0.069098	1.195	552776.0	1.451641	Y
2	IC 200-162365/9	0.0952	0.135273	1.195	682230.0	1.420937	Y
3	IC 200-162365/10	0.476	0.658168	1.195	543196.0	1.382705	Y
4	ICIS 200-162365/11	0.952	1.234637	1.195	554310.0	1.296888	Y
5	IC 200-162365/12	2.38	3.052432	1.195	529467.0	1.282535	Y
6	IC 200-162365/13	9.52	12.055482	1.195	552420.0	1.266332	Y



Calibration / 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

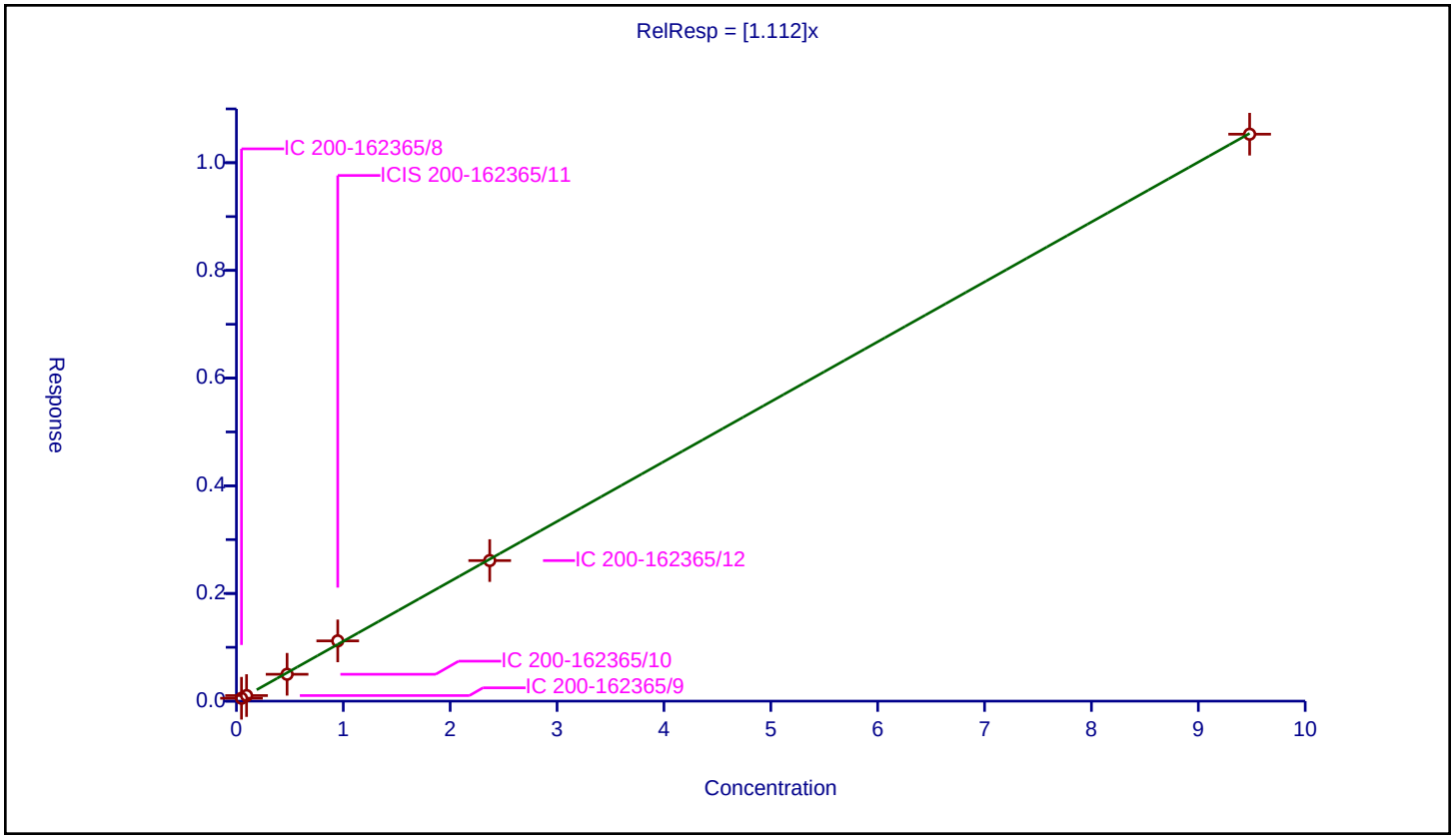
Curve Coefficients

Intercept:	0
Slope:	1.112

Error Coefficients

Standard Error:	397000
Relative Standard Error:	3.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-162365/8	0.0474	0.053813	1.1875	100493.0	1.135305	Y
2	IC 200-162365/9	0.0948	0.103691	1.1875	122975.0	1.093785	Y
3	IC 200-162365/10	0.474	0.498705	1.1875	102545.0	1.05212	Y
4	ICIS 200-162365/11	0.948	1.119118	1.1875	96952.0	1.180504	Y
5	IC 200-162365/12	2.37	2.61081	1.1875	97655.0	1.101607	Y
6	IC 200-162365/13	9.48	10.52992	1.1875	96331.0	1.110751	Y



Calibration / Perfluorooctanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

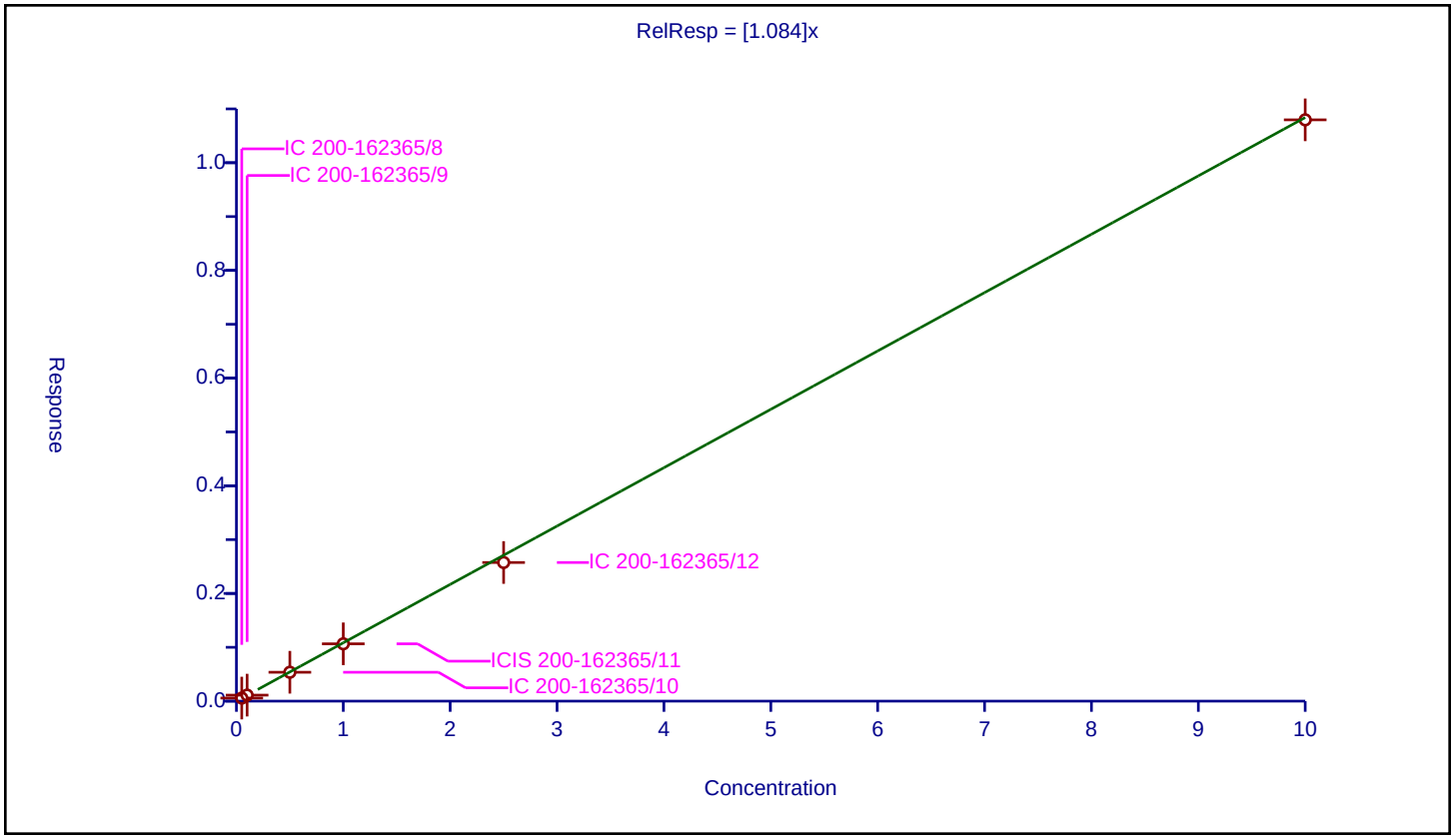
Curve Coefficients

Intercept:	0
Slope:	1.084

Error Coefficients

Standard Error:	3360000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-162365/8	0.05	0.057025	1.25	889146.0	1.140504	Y
2	IC 200-162365/9	0.1	0.111632	1.25	1101215.0	1.116324	Y
3	IC 200-162365/10	0.5	0.536251	1.25	857479.0	1.072501	Y
4	ICIS 200-162365/11	1.0	1.064682	1.25	869201.0	1.064682	Y
5	IC 200-162365/12	2.5	2.575243	1.25	862938.0	1.030097	Y
6	IC 200-162365/13	10.0	10.79653	1.25	839703.0	1.079653	Y



Calibration / Perfluorooctanesulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

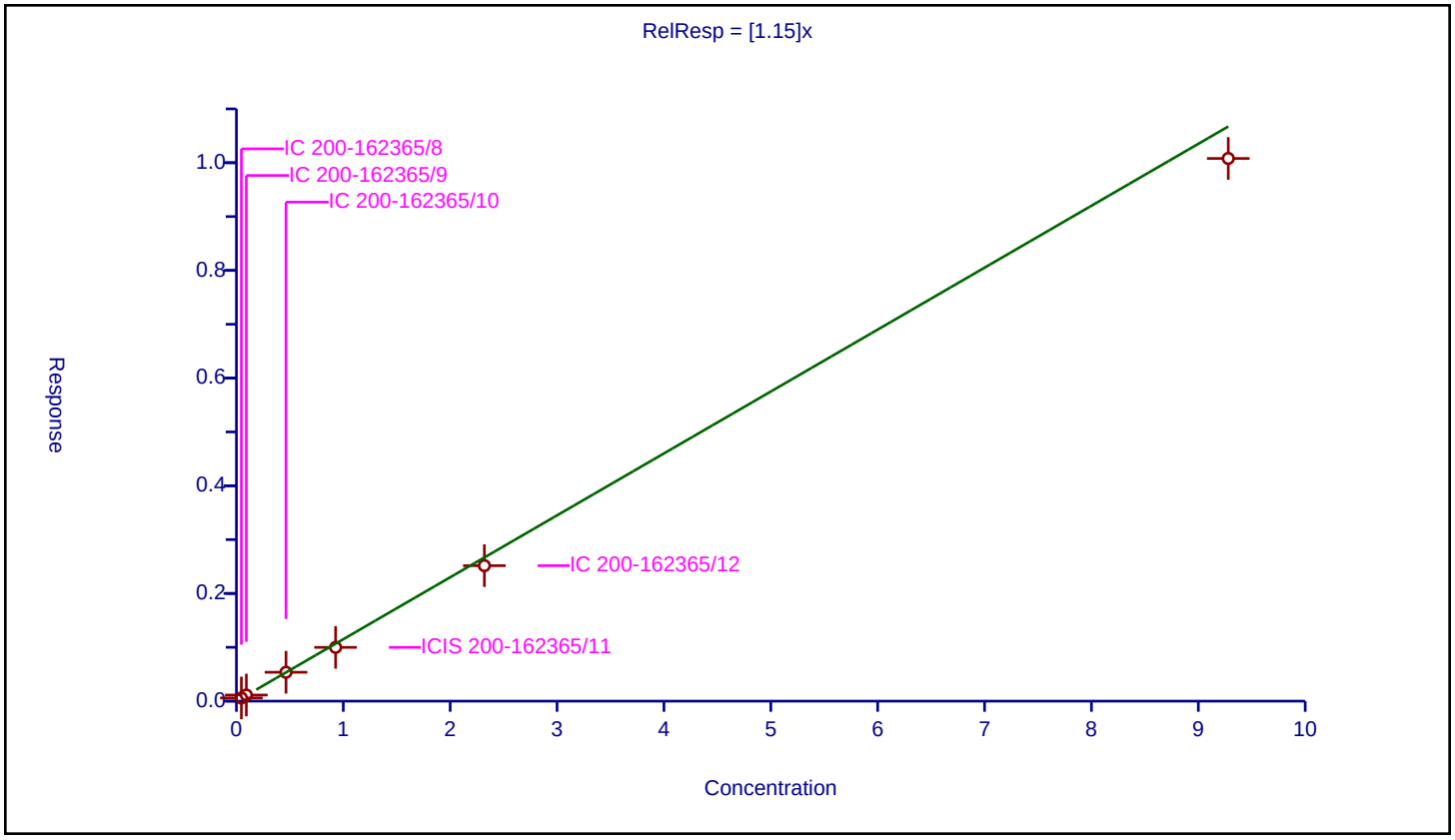
Curve Coefficients

Intercept:	0
Slope:	1.15

Error Coefficients

Standard Error:	2160000
Relative Standard Error:	7.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-162365/8	0.0464	0.059069	1.195	552776.0	1.273049	Y
2	IC 200-162365/9	0.0928	0.113702	1.195	682230.0	1.225239	Y
3	IC 200-162365/10	0.464	0.536254	1.195	543196.0	1.155719	Y
4	ICIS 200-162365/11	0.928	0.998526	1.195	554310.0	1.075998	Y
5	IC 200-162365/12	2.32	2.515978	1.195	529467.0	1.084473	Y
6	IC 200-162365/13	9.28	10.079203	1.195	552420.0	1.086121	Y



Calibration / Perfluorononanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

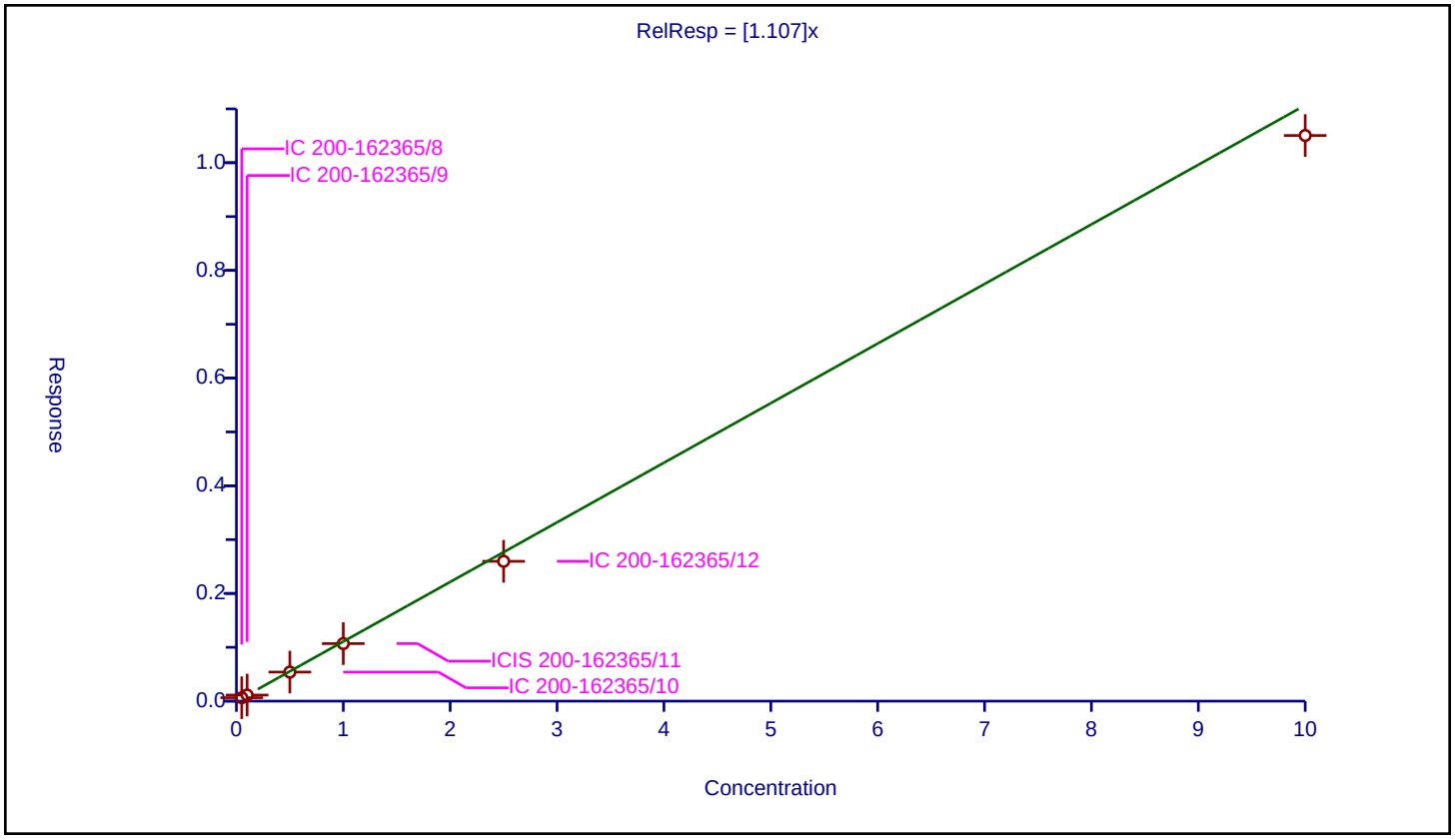
Curve Coefficients

Intercept:	0
Slope:	1.107

Error Coefficients

Standard Error:	2880000
Relative Standard Error:	7.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-162365/8	0.05	0.063599	1.25	787744.0	1.271987	Y
2	IC 200-162365/9	0.1	0.113142	1.25	964938.0	1.13142	Y
3	IC 200-162365/10	0.5	0.539829	1.25	772347.0	1.079657	Y
4	ICIS 200-162365/11	1.0	1.068826	1.25	760016.0	1.068826	Y
5	IC 200-162365/12	2.5	2.596817	1.25	756323.0	1.038727	Y
6	IC 200-162365/13	10.0	10.50595	1.25	738168.0	1.050595	Y



Calibration / 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

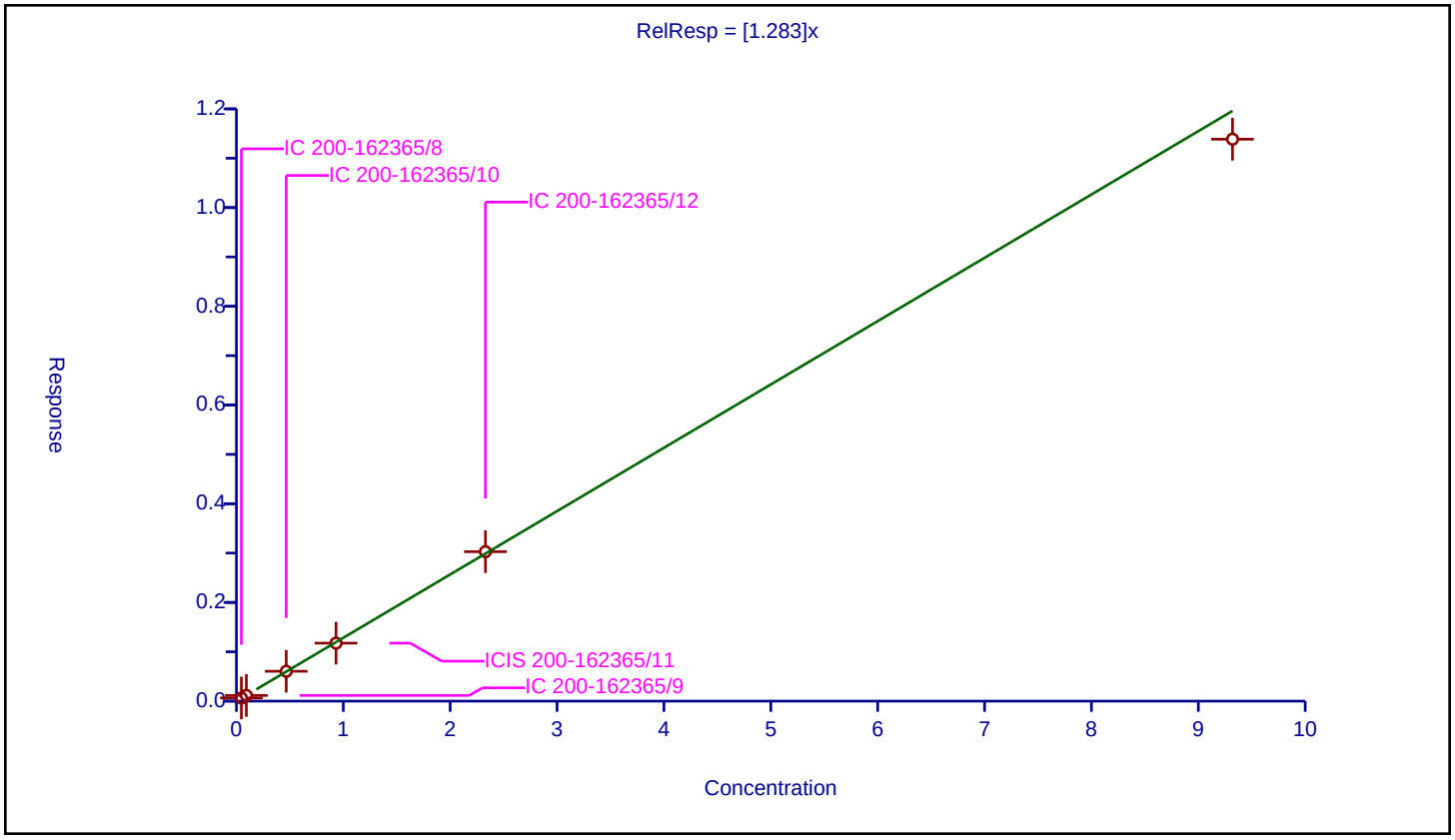
Curve Coefficients

Intercept:	0
Slope:	1.283

Error Coefficients

Standard Error:	2440000
Relative Standard Error:	4.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-162365/8	0.0466	0.064139	1.195	552776.0	1.376372	Y
2	IC 200-162365/9	0.0932	0.115711	1.195	682230.0	1.241537	Y
3	IC 200-162365/10	0.466	0.605374	1.195	543196.0	1.299085	Y
4	ICIS 200-162365/11	0.932	1.175263	1.195	554310.0	1.261012	Y
5	IC 200-162365/12	2.33	3.028048	1.195	529467.0	1.299591	Y
6	IC 200-162365/13	9.32	11.385753	1.195	552420.0	1.221647	Y



Calibration / Perfluorononanesulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

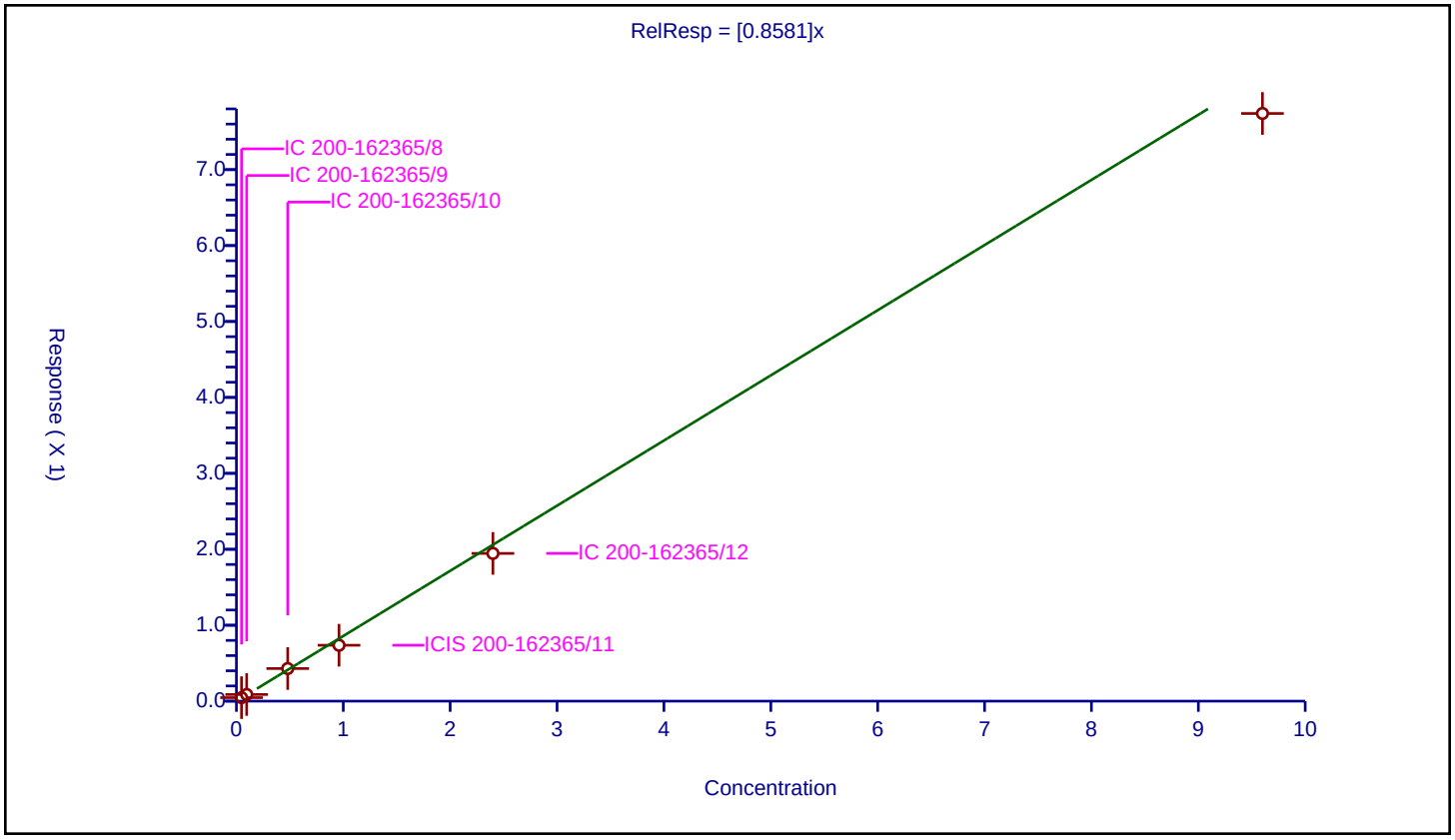
Curve Coefficients

Intercept:	0
Slope:	0.8581

Error Coefficients

Standard Error:	1660000
Relative Standard Error:	8.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-162365/8	0.048	0.04596	1.195	552776.0	0.957504	Y
2	IC 200-162365/9	0.096	0.08757	1.195	682230.0	0.912187	Y
3	IC 200-162365/10	0.48	0.429686	1.195	543196.0	0.89518	Y
4	ICIS 200-162365/11	0.96	0.735984	1.195	554310.0	0.76665	Y
5	IC 200-162365/12	2.4	1.945629	1.195	529467.0	0.810679	Y
6	IC 200-162365/13	9.6	7.739554	1.195	552420.0	0.806203	Y



Calibration / Perfluorodecanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

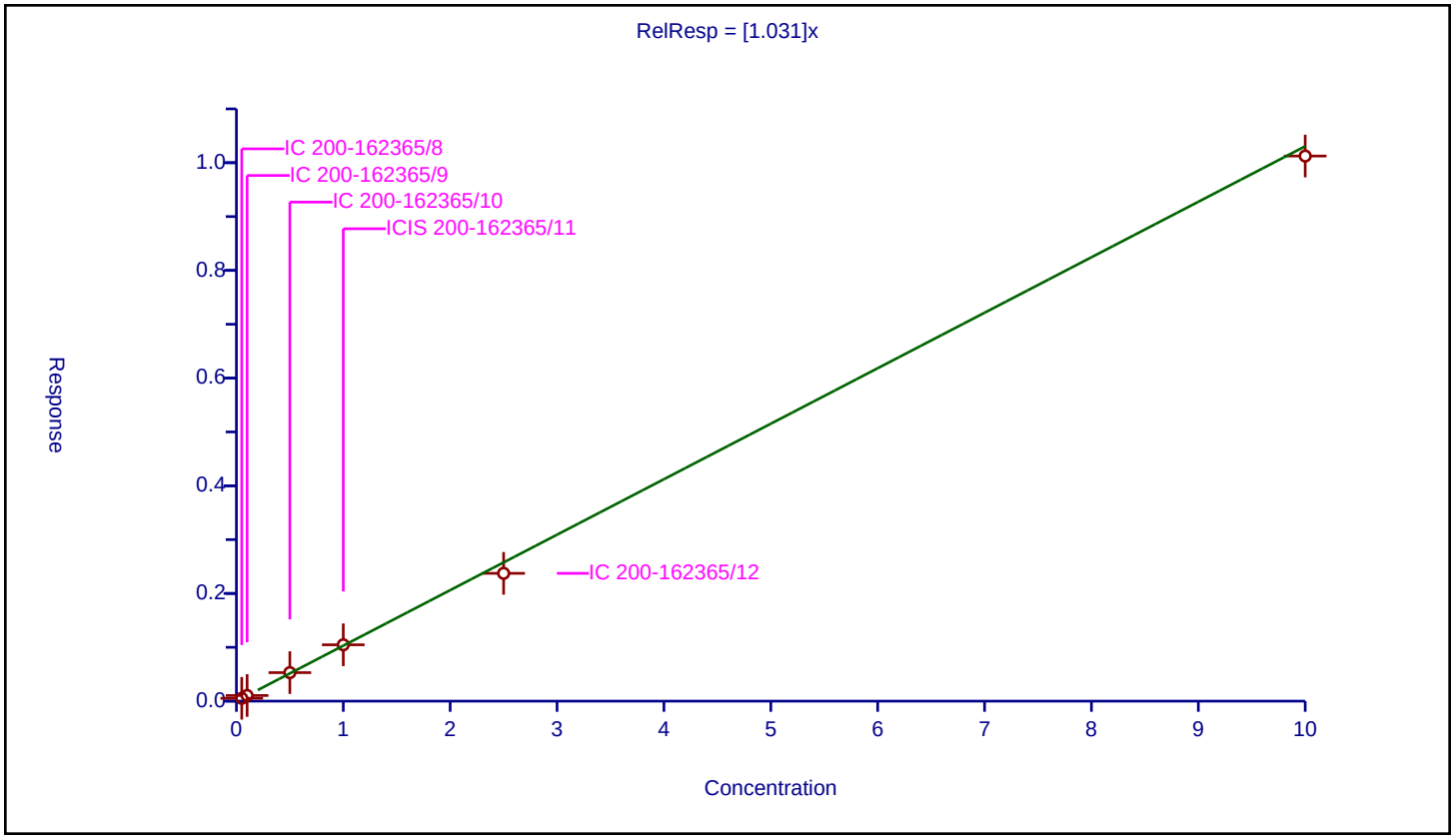
Curve Coefficients

Intercept:	0
Slope:	1.031

Error Coefficients

Standard Error:	2630000
Relative Standard Error:	4.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-162365/8	0.05	0.053418	1.25	741582.0	1.068358	Y
2	IC 200-162365/9	0.1	0.104683	1.25	926205.0	1.046825	Y
3	IC 200-162365/10	0.5	0.52973	1.25	721858.0	1.05946	Y
4	ICIS 200-162365/11	1.0	1.04663	1.25	722168.0	1.04663	Y
5	IC 200-162365/12	2.5	2.373518	1.25	760056.0	0.949407	Y
6	IC 200-162365/13	10.0	10.12465	1.25	699346.0	1.012465	Y



Calibration / 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

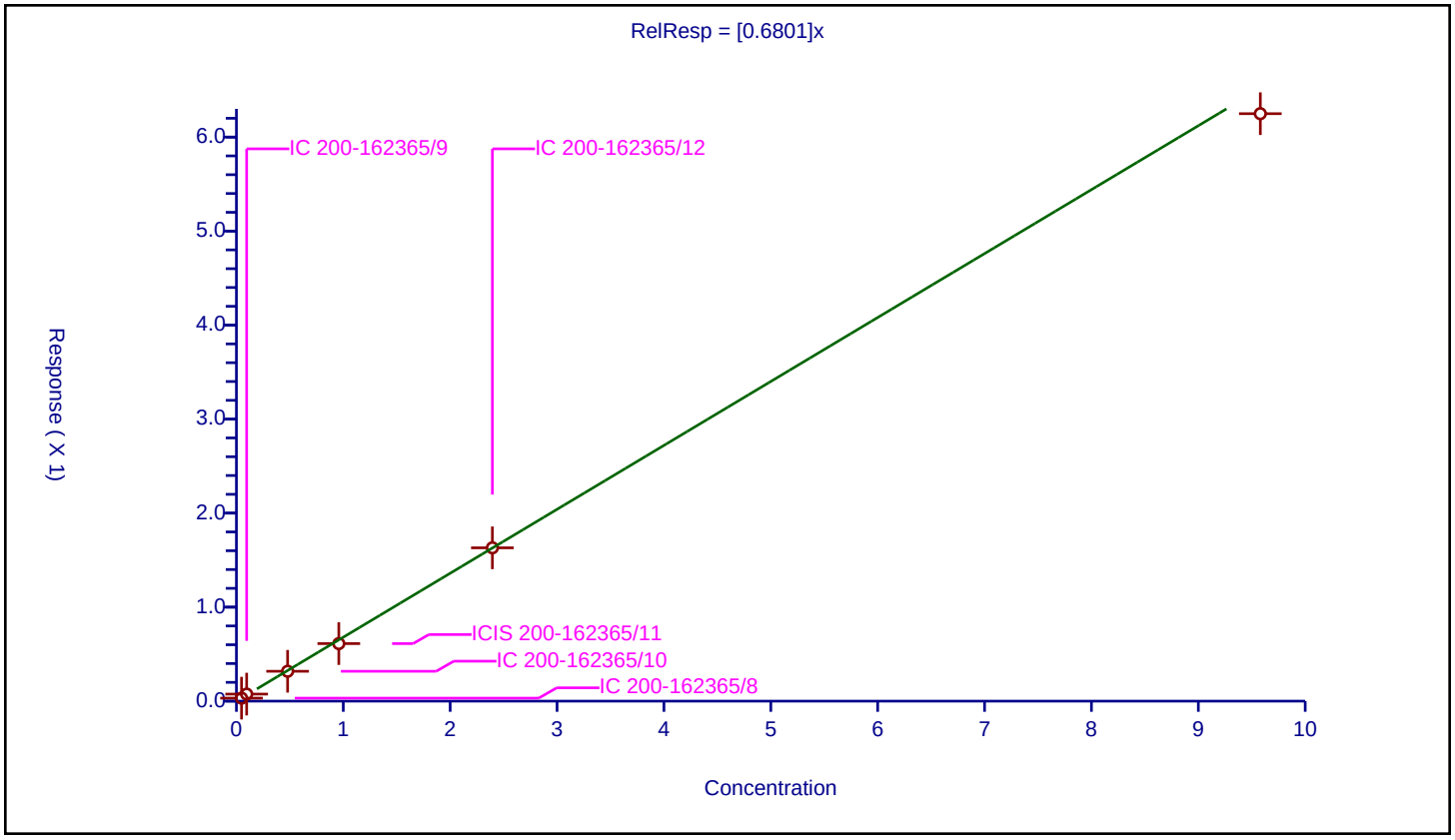
Curve Coefficients

Intercept:	0
Slope:	0.6801

Error Coefficients

Standard Error:	255000
Relative Standard Error:	7.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-162365/8	0.0479	0.031824	1.1975	107657.0	0.664379	Y
2	IC 200-162365/9	0.0958	0.074804	1.1975	125650.0	0.78084	Y
3	IC 200-162365/10	0.479	0.317736	1.1975	100274.0	0.663332	Y
4	ICIS 200-162365/11	0.958	0.611973	1.1975	100569.0	0.638803	Y
5	IC 200-162365/12	2.395	1.631041	1.1975	101608.0	0.681019	Y
6	IC 200-162365/13	9.58	6.249065	1.1975	105624.0	0.652303	Y



Calibration / Perfluorooctanesulfonamide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

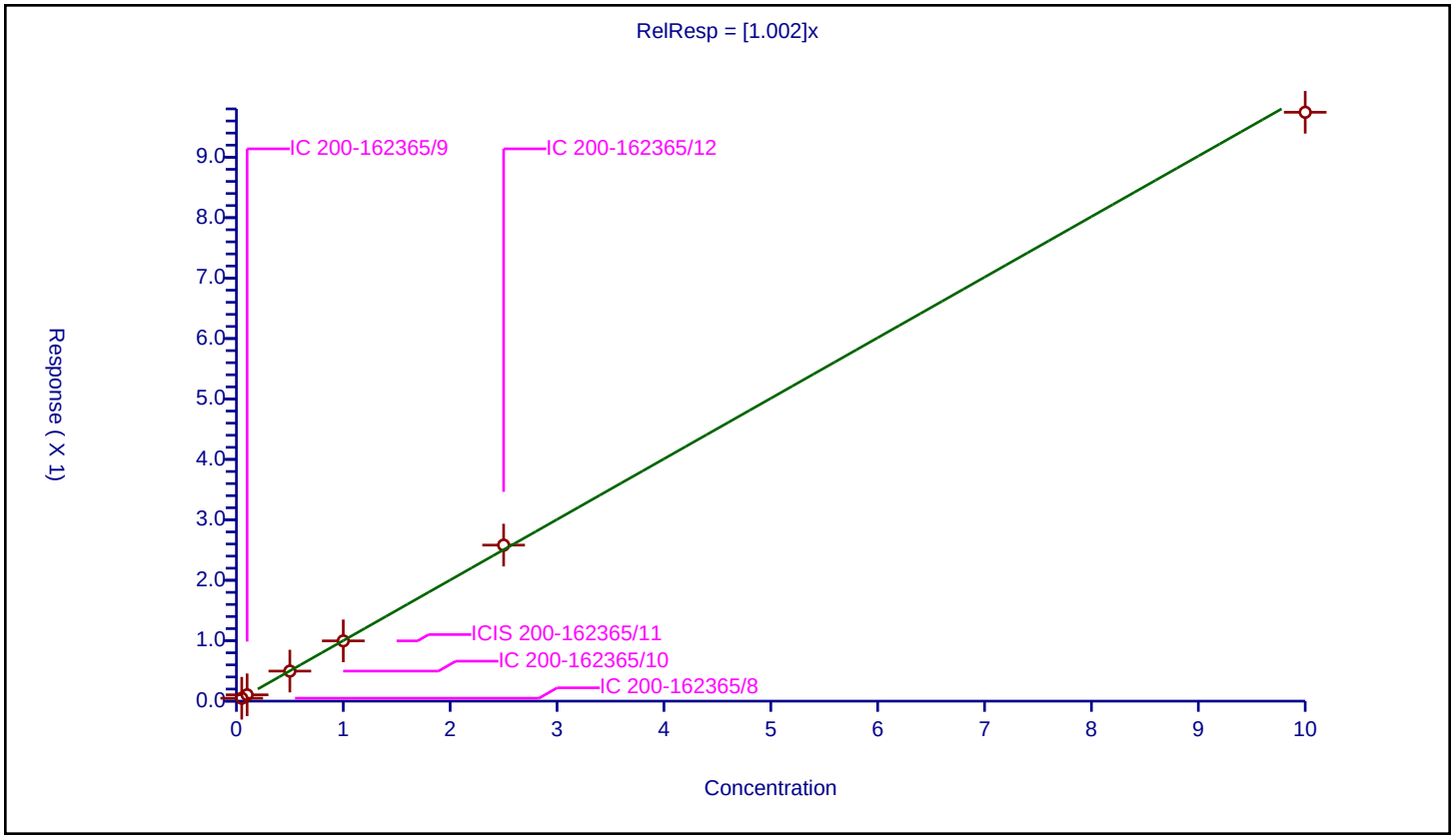
Curve Coefficients

Intercept:	0
Slope:	1.002

Error Coefficients

Standard Error:	4020000
Relative Standard Error:	3.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-162365/8	0.05	0.048315	1.25	1076815.0	0.966299	Y
2	IC 200-162365/9	0.1	0.104776	1.25	1350960.0	1.047764	Y
3	IC 200-162365/10	0.5	0.497311	1.25	1063884.0	0.994622	Y
4	ICIS 200-162365/11	1.0	0.996983	1.25	1069567.0	0.996983	Y
5	IC 200-162365/12	2.5	2.581919	1.25	1040920.0	1.032768	Y
6	IC 200-162365/13	10.0	9.744193	1.25	1111429.0	0.974419	Y



Calibration / N-methylperfluorooctanesulfonamidoacetic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

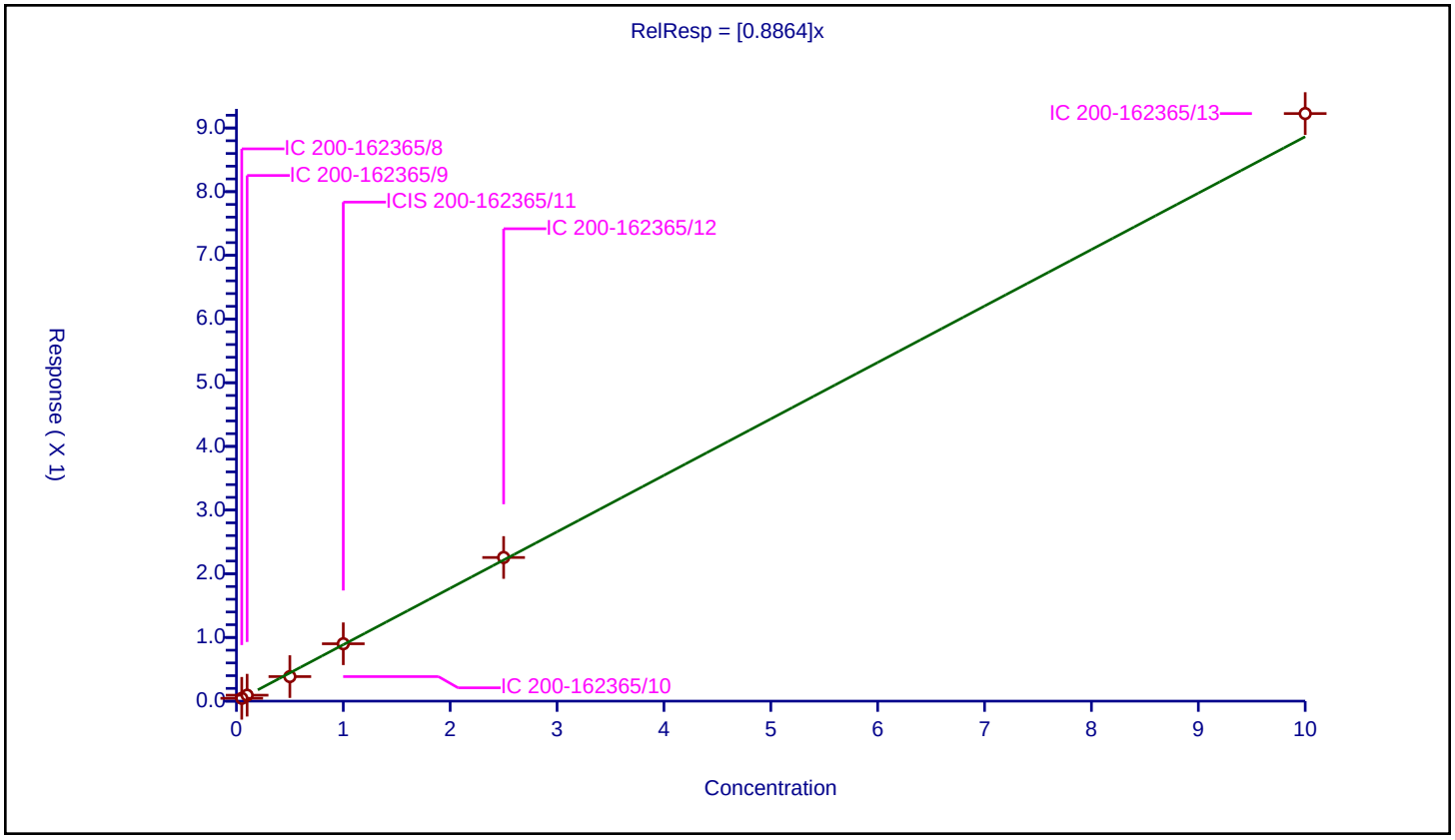
Curve Coefficients

Intercept:	0
Slope:	0.8864

Error Coefficients

Standard Error:	180000
Relative Standard Error:	6.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-162365/8	0.05	0.044418	1.25	49895.0	0.888366	Y
2	IC 200-162365/9	0.1	0.093329	1.25	69887.0	0.933292	Y
3	IC 200-162365/10	0.5	0.385302	1.25	54321.0	0.770604	Y
4	ICIS 200-162365/11	1.0	0.900963	1.25	52781.0	0.900963	Y
5	IC 200-162365/12	2.5	2.255769	1.25	52266.0	0.902307	Y
6	IC 200-162365/13	10.0	9.226693	1.25	52838.0	0.922669	Y



Calibration / Perfluorodecanesulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

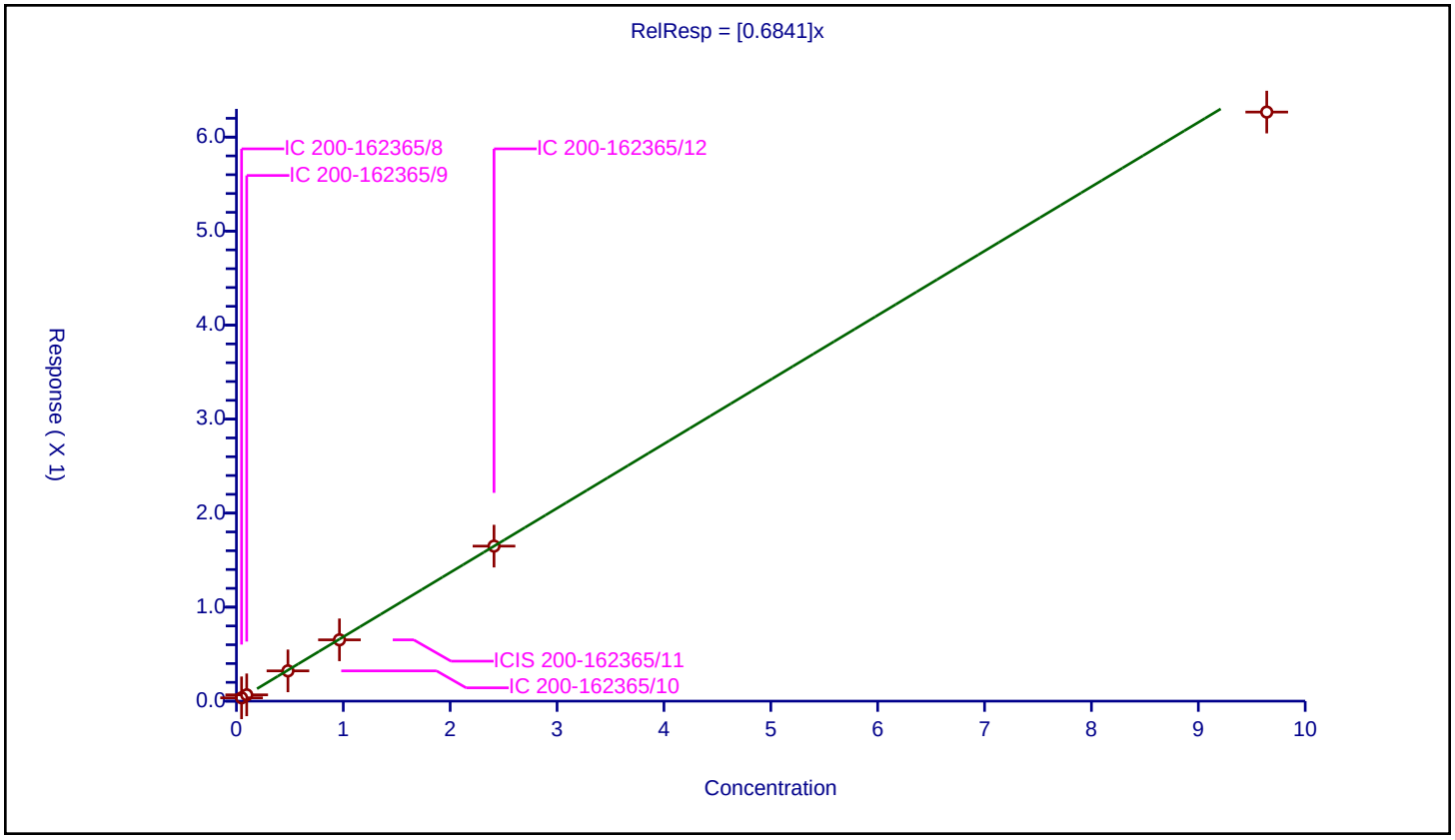
Curve Coefficients

Intercept:	0
Slope:	0.6841

Error Coefficients

Standard Error:	1340000
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-162365/8	0.0482	0.035222	1.195	552776.0	0.730757	Y
2	IC 200-162365/9	0.0964	0.06701	1.195	682230.0	0.69512	Y
3	IC 200-162365/10	0.482	0.321957	1.195	543196.0	0.667961	Y
4	ICIS 200-162365/11	0.964	0.651984	1.195	554310.0	0.676332	Y
5	IC 200-162365/12	2.41	1.64916	1.195	529467.0	0.684299	Y
6	IC 200-162365/13	9.64	6.266194	1.195	552420.0	0.65002	Y



Calibration / Perfluoroundecanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

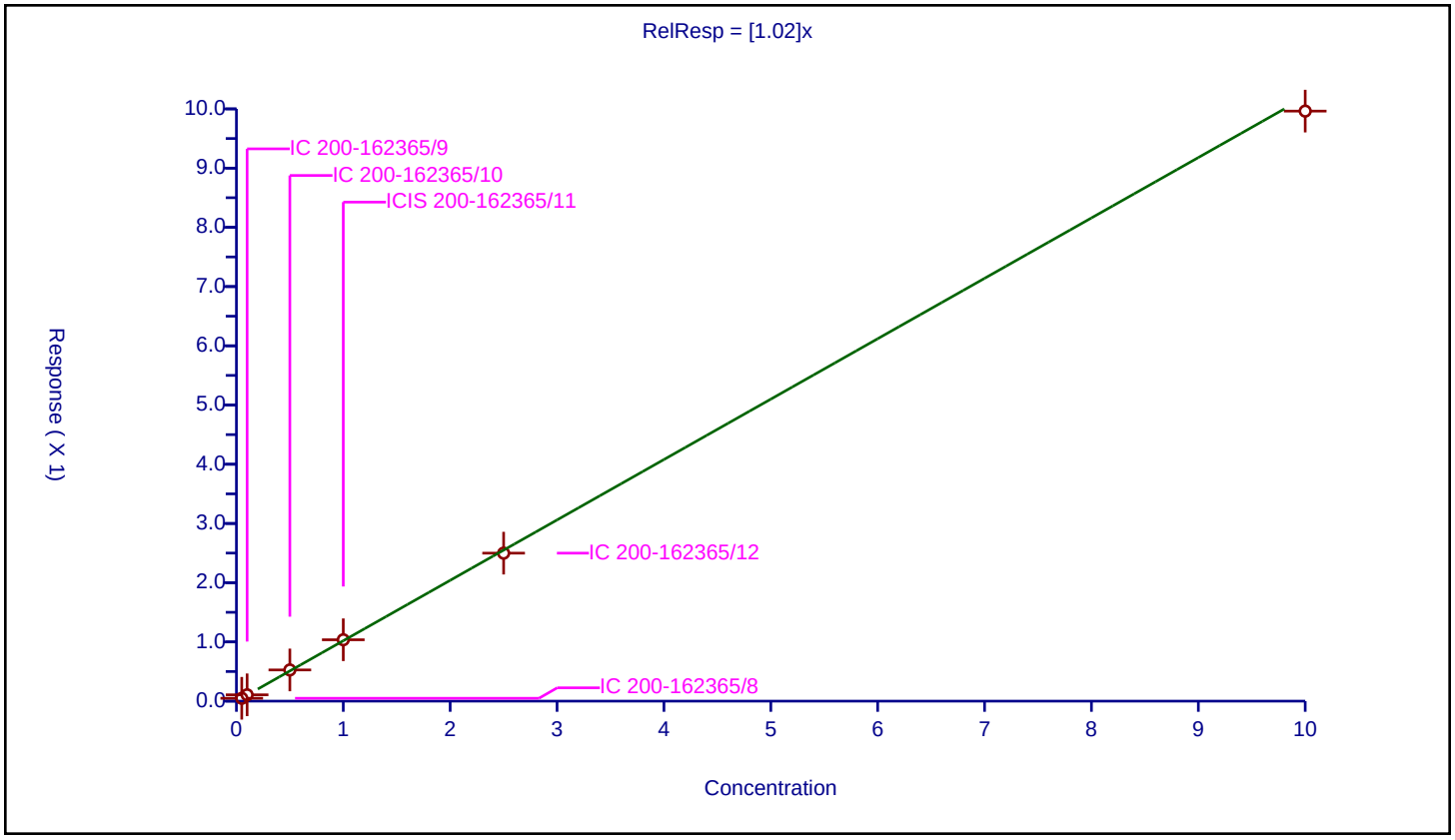
Curve Coefficients

Intercept:	0
Slope:	1.02

Error Coefficients

Standard Error:	2180000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-162365/8	0.05	0.048267	1.25	632709.0	0.965333	Y
2	IC 200-162365/9	0.1	0.10681	1.25	753171.0	1.068101	Y
3	IC 200-162365/10	0.5	0.526686	1.25	580063.0	1.053373	Y
4	ICIS 200-162365/11	1.0	1.036476	1.25	595523.0	1.036476	Y
5	IC 200-162365/12	2.5	2.49874	1.25	601281.0	0.999496	Y
6	IC 200-162365/13	10.0	9.962572	1.25	589898.0	0.996257	Y



Calibration / N-ethylperfluorooctanesulfonamidoacetic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

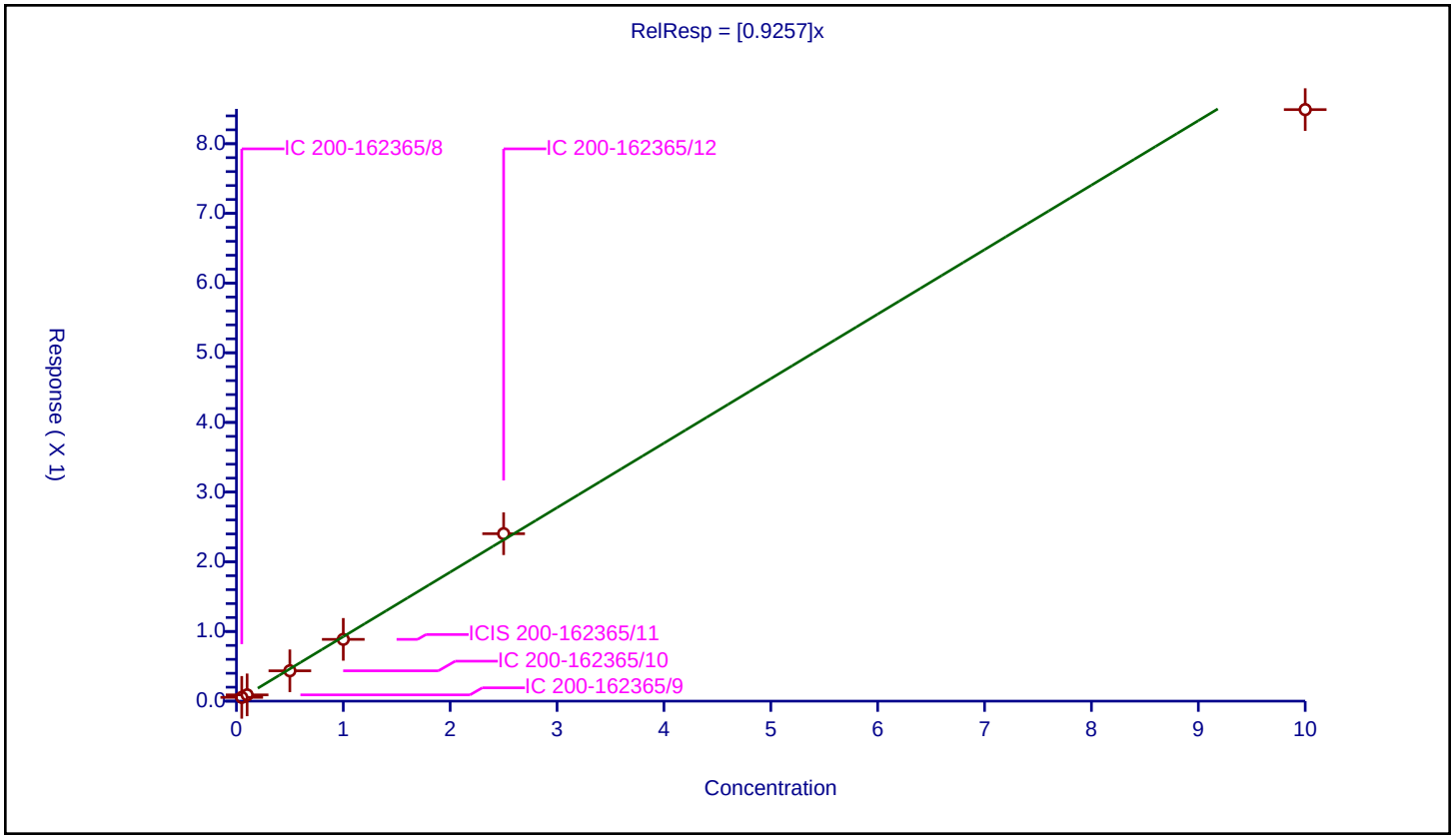
Curve Coefficients

Intercept:	0
Slope:	0.9257

Error Coefficients

Standard Error:	166000
Relative Standard Error:	9.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-162365/8	0.05	0.054201	1.25	49123.0	1.084014	Y
2	IC 200-162365/9	0.1	0.090203	1.25	66544.0	0.902035	Y
3	IC 200-162365/10	0.5	0.435738	1.25	52130.0	0.871475	Y
4	ICIS 200-162365/11	1.0	0.886522	1.25	50481.0	0.886522	Y
5	IC 200-162365/12	2.5	2.403003	1.25	49976.0	0.961201	Y
6	IC 200-162365/13	10.0	8.489505	1.25	52405.0	0.84895	Y



Calibration / 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

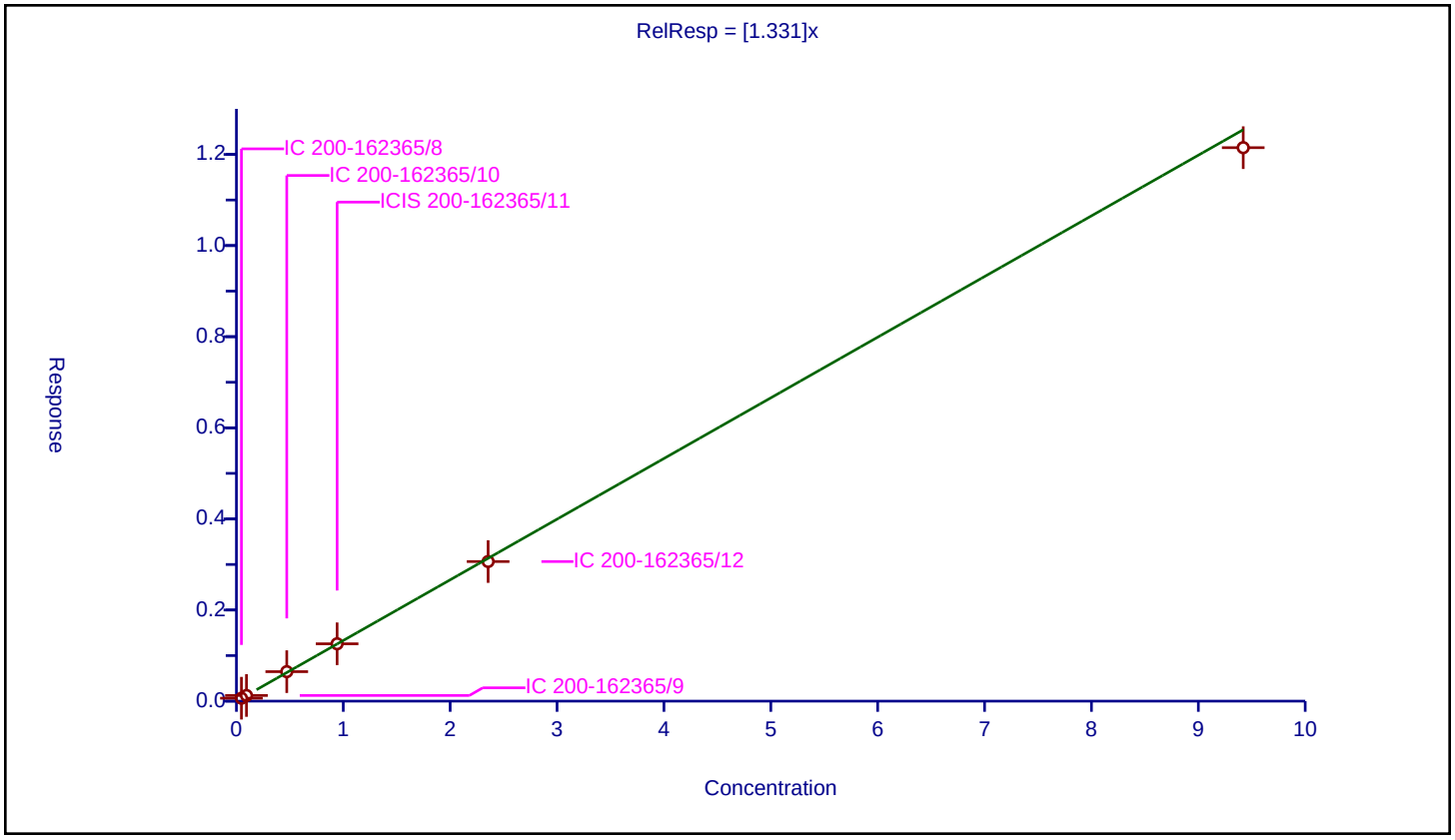
Curve Coefficients

Intercept:	0
Slope:	1.331

Error Coefficients

Standard Error:	2600000
Relative Standard Error:	2.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-162365/8	0.0471	0.064435	1.195	552776.0	1.368049	Y
2	IC 200-162365/9	0.0942	0.124242	1.195	682230.0	1.318913	Y
3	IC 200-162365/10	0.471	0.647252	1.195	543196.0	1.374207	Y
4	ICIS 200-162365/11	0.942	1.259108	1.195	554310.0	1.336633	Y
5	IC 200-162365/12	2.355	3.064453	1.195	529467.0	1.301254	Y
6	IC 200-162365/13	9.42	12.148924	1.195	552420.0	1.289695	Y



Calibration / Perfluorododecanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

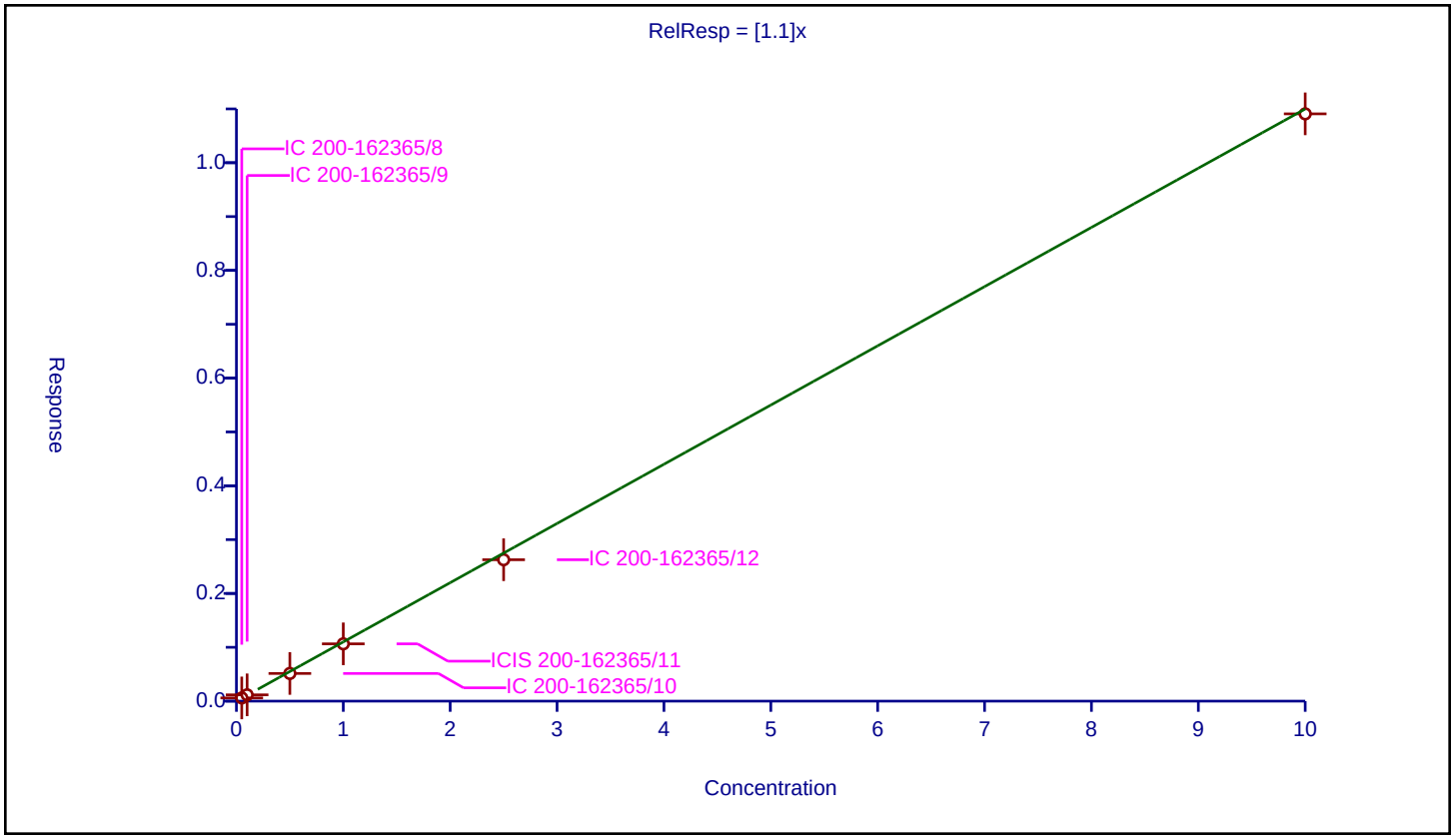
Curve Coefficients

Intercept:	0
Slope:	1.1

Error Coefficients

Standard Error:	2550000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-162365/8	0.05	0.059695	1.25	640188.0	1.193907	Y
2	IC 200-162365/9	0.1	0.117086	1.25	777582.0	1.170857	Y
3	IC 200-162365/10	0.5	0.514375	1.25	642314.0	1.028749	Y
4	ICIS 200-162365/11	1.0	1.064268	1.25	641373.0	1.064268	Y
5	IC 200-162365/12	2.5	2.626358	1.25	623891.0	1.050543	Y
6	IC 200-162365/13	10.0	10.90786	1.25	631964.0	1.090786	Y



Calibration / 1H,1H,2H,2H-perfluorododecanesulfonic acid (10:2)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

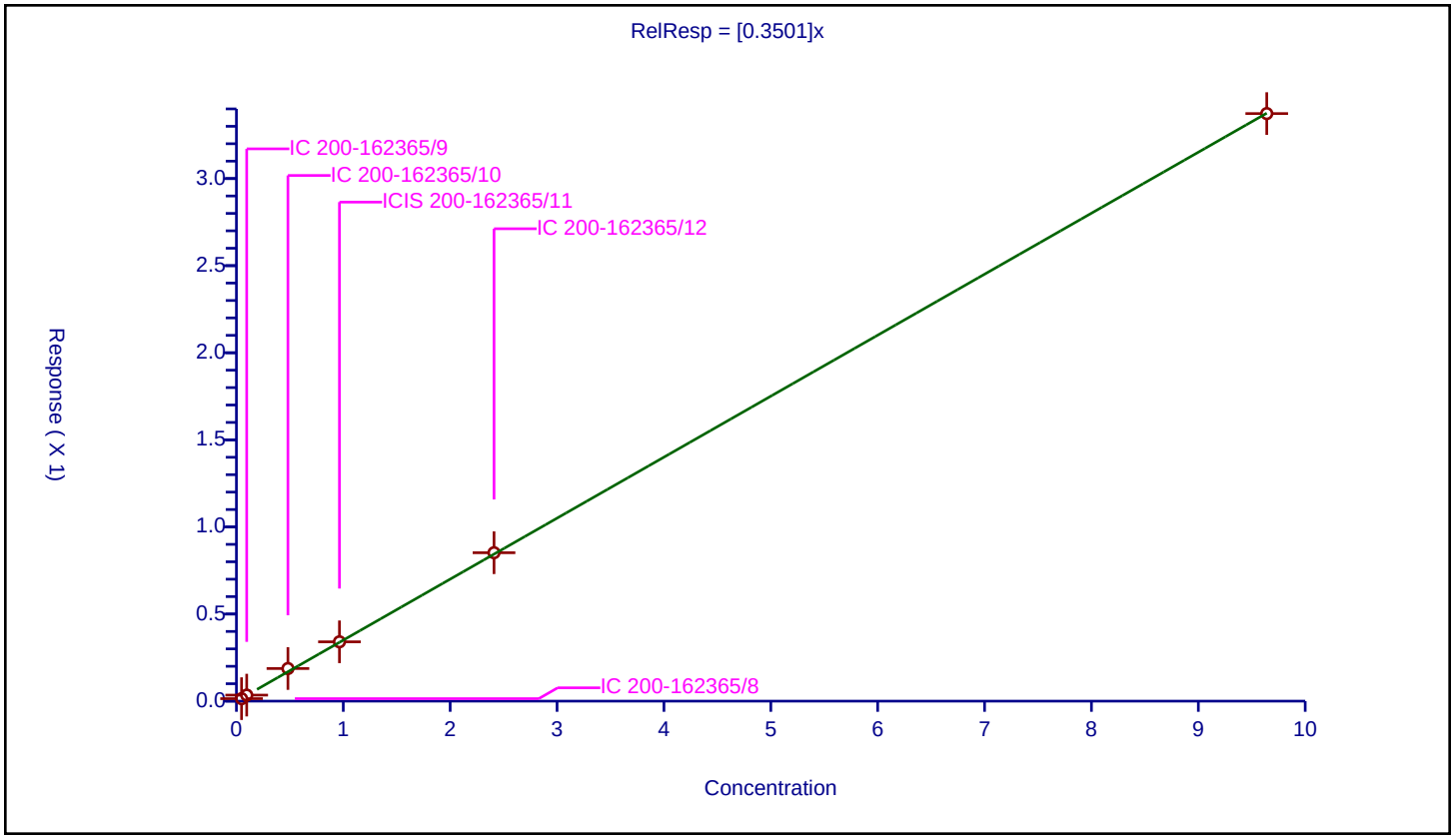
Curve Coefficients

Intercept:	0
Slope:	0.3501

Error Coefficients

Standard Error:	138000
Relative Standard Error:	8.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-162365/8	0.0482	0.014282	1.1975	107657.0	0.296313	Y
2	IC 200-162365/9	0.0964	0.034634	1.1975	125650.0	0.35927	Y
3	IC 200-162365/10	0.482	0.187219	1.1975	100274.0	0.388421	Y
4	ICIS 200-162365/11	0.964	0.340654	1.1975	100569.0	0.353376	Y
5	IC 200-162365/12	2.41	0.852056	1.1975	101608.0	0.35355	Y
6	IC 200-162365/13	9.64	3.37311	1.1975	105624.0	0.349908	Y



Calibration / Perfluorododecanesulfonic acid (PFDoS)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

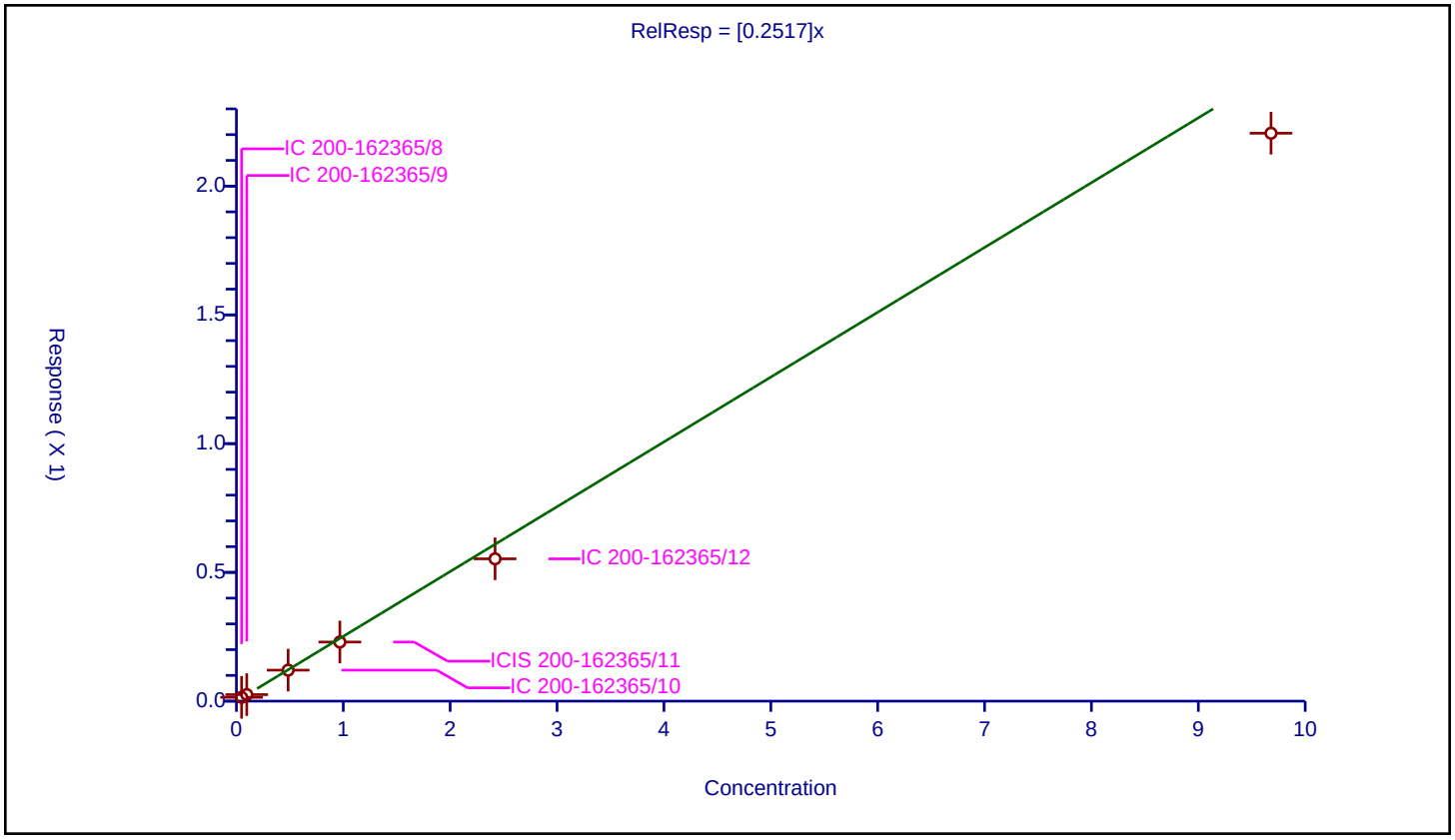
Curve Coefficients

Intercept:	0
Slope:	0.2517

Error Coefficients

Standard Error:	472000
Relative Standard Error:	11.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-162365/8	0.0484	0.014793	1.195	552776.0	0.305647	Y
2	IC 200-162365/9	0.0968	0.025405	1.195	682230.0	0.262452	Y
3	IC 200-162365/10	0.484	0.120328	1.195	543196.0	0.248612	Y
4	ICIS 200-162365/11	0.968	0.229601	1.195	554310.0	0.237191	Y
5	IC 200-162365/12	2.42	0.552646	1.195	529467.0	0.228366	Y
6	IC 200-162365/13	9.68	2.205461	1.195	552420.0	0.227837	Y



Calibration / Perfluorotridecanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

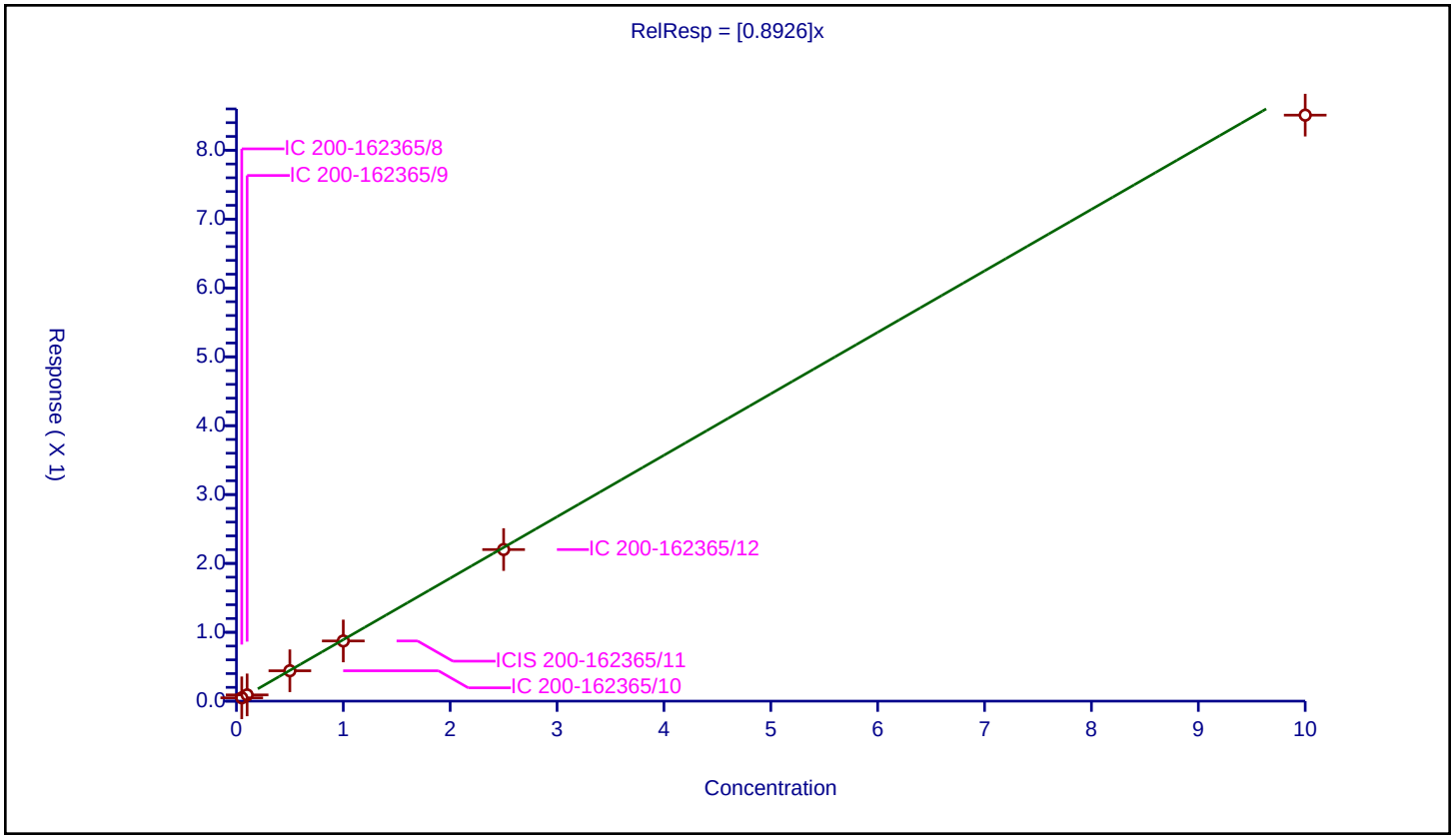
Curve Coefficients

Intercept:	0
Slope:	0.8926

Error Coefficients

Standard Error:	2000000
Relative Standard Error:	4.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-162365/8	0.05	0.048015	1.25	640188.0	0.960304	Y
2	IC 200-162365/9	0.1	0.090765	1.25	777582.0	0.907653	Y
3	IC 200-162365/10	0.5	0.44111	1.25	642314.0	0.88222	Y
4	ICIS 200-162365/11	1.0	0.873994	1.25	641373.0	0.873994	Y
5	IC 200-162365/12	2.5	2.201023	1.25	623891.0	0.880409	Y
6	IC 200-162365/13	10.0	8.509316	1.25	631964.0	0.850932	Y



Calibration / Perfluorotetradecanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

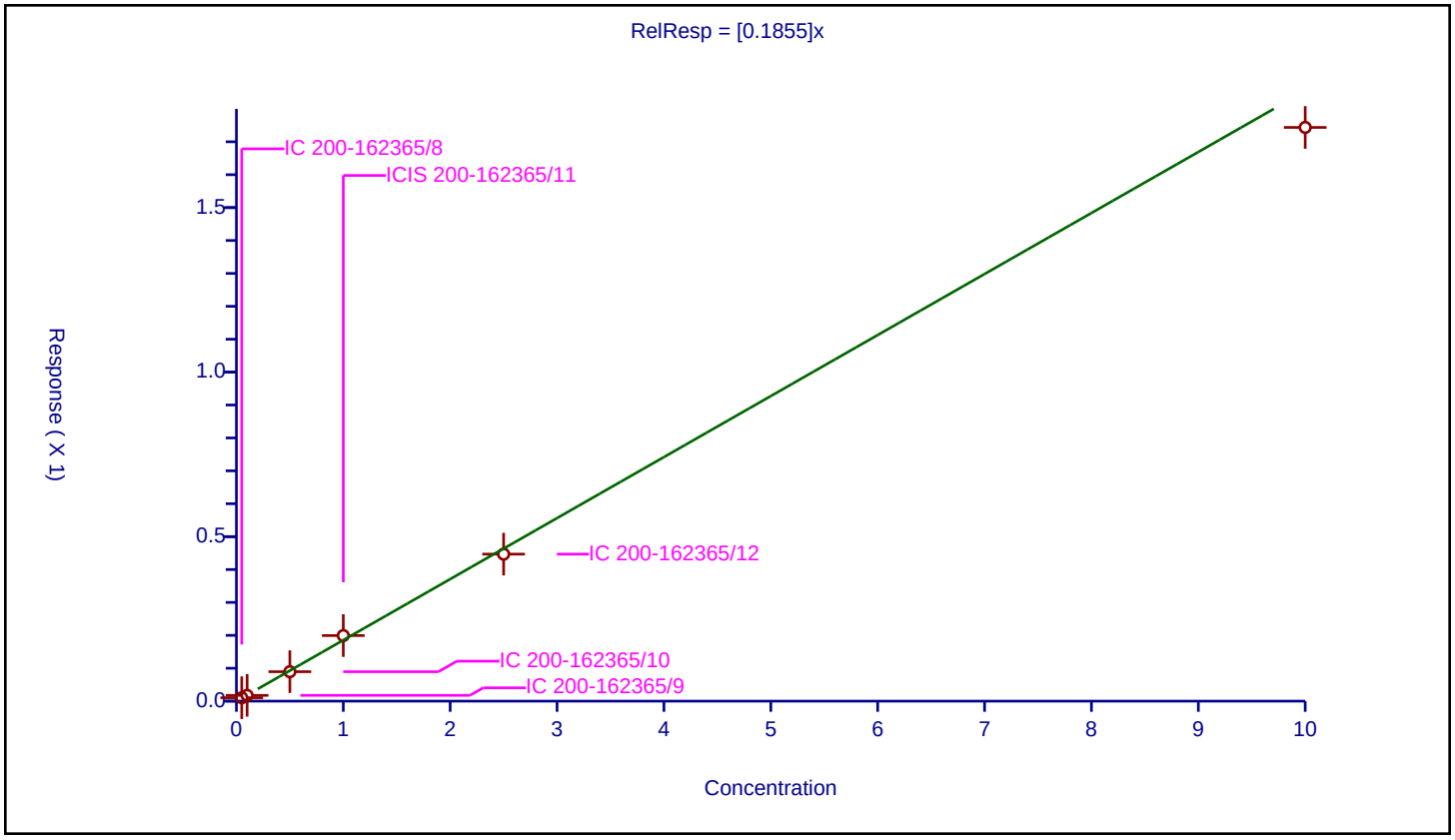
Curve Coefficients

Intercept:	0
Slope:	0.1855

Error Coefficients

Standard Error:	306000
Relative Standard Error:	7.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-162365/8	0.05	0.010291	1.25	460978.0	0.205812	Y
2	IC 200-162365/9	0.1	0.017546	1.25	598063.0	0.175462	Y
3	IC 200-162365/10	0.5	0.089521	1.25	480039.0	0.179043	Y
4	ICIS 200-162365/11	1.0	0.199316	1.25	450404.0	0.199316	Y
5	IC 200-162365/12	2.5	0.446767	1.25	469963.0	0.178707	Y
6	IC 200-162365/13	10.0	1.743623	1.25	471704.0	0.174362	Y



Calibration / Perfluorohexadecanoic acid

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

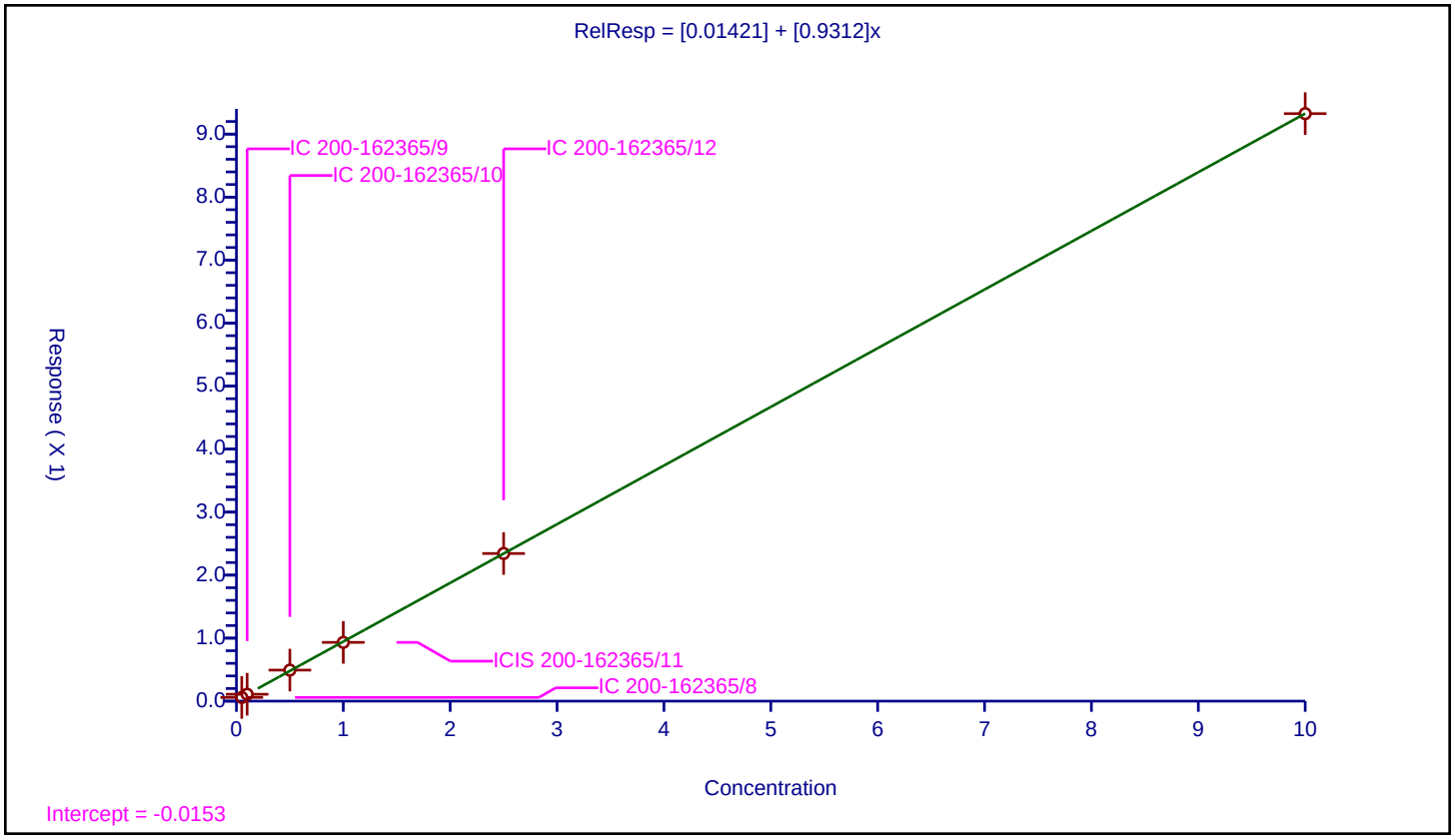
Curve Coefficients

Intercept:	0.01421
Slope:	0.9312

Error Coefficients

Standard Error:	1950000
Relative Standard Error:	2.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-162365/8	0.05	0.059041	1.25	493765.0	1.180825	Y
2	IC 200-162365/9	0.1	0.109457	1.25	635237.0	1.094572	Y
3	IC 200-162365/10	0.5	0.492643	1.25	497203.0	0.985287	Y
4	ICIS 200-162365/11	1.0	0.932632	1.25	496455.0	0.932632	Y
5	IC 200-162365/12	2.5	2.343435	1.25	505699.0	0.937374	Y
6	IC 200-162365/13	10.0	9.324608	1.25	502634.0	0.932461	Y



Calibration / Perfluorooctadecanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

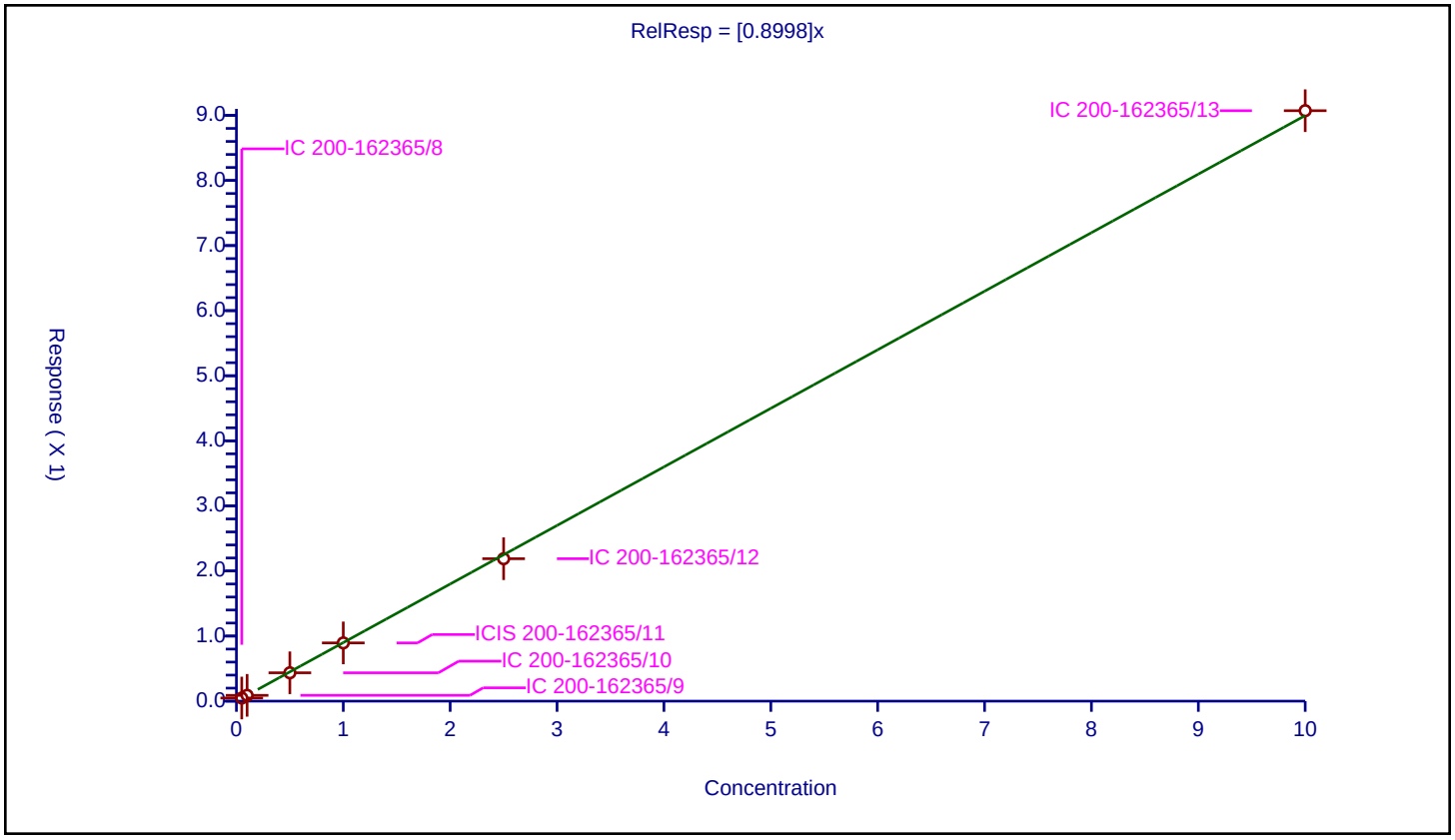
Curve Coefficients

Intercept:	0
Slope:	0.8998

Error Coefficients

Standard Error:	1690000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-162365/8	0.05	0.047925	1.25	493765.0	0.958503	Y
2	IC 200-162365/9	0.1	0.089138	1.25	635237.0	0.89138	Y
3	IC 200-162365/10	0.5	0.435677	1.25	497203.0	0.871354	Y
4	ICIS 200-162365/11	1.0	0.894797	1.25	496455.0	0.894797	Y
5	IC 200-162365/12	2.5	2.188251	1.25	505699.0	0.8753	Y
6	IC 200-162365/13	10.0	9.072165	1.25	502634.0	0.907217	Y



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Lab Sample ID: ICV 200-162365/15 Calibration Date: 12/22/2020 13:46

Instrument ID: LC812 Calib Start Date: 12/22/2020 12:48

GC Column: C-18 ID: 4.60(mm) Calib End Date: 12/22/2020 13:29

Lab File ID: PA201222ICAL015.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.002	0.9674		0.965	1.00	-3.5	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.107	1.153		1.05	1.01	4.2	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.131	1.058		0.935	1.00	-6.5	40.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	1.834	1.918		1.05	1.00	4.6	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.092	1.036		0.958	1.01	-5.2	40.0
Perfluoropentanesulfonic acid	AveID	1.312	1.370		1.04	1.00	4.4	50.0
HFPO-DA	AveID	1.385	1.363		0.994	1.01	-1.6	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.092	1.016		0.931	1.00	-6.9	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.178	1.137		0.975	1.01	-3.5	40.0
DONA	AveID	3.349	3.129		0.935	1.00	-6.5	50.0
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	AveID	1.112	1.090		0.980	1.00	-2.0	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.350	1.275		0.944	1.00	-5.6	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.084	1.062		0.980	1.00	-2.0	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.150	0.9652		0.848	1.01	-16.1	40.0
Perfluorononanoic acid (PFNA)	AveID	1.107	1.200		1.09	1.00	8.5	40.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	1.283	1.300		1.01	1.00	1.3	50.0
Perfluorononanesulfonic acid	AveID	0.8581	0.8222		0.968	1.01	-4.2	50.0
Perfluorodecanoic acid (PFDA)	AveID	1.031	1.023		0.993	1.00	-0.7	40.0
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	AveID	0.6801	0.6225		0.924	1.01	-8.5	40.0
Perfluorooctanesulfonamide (FOSA)	AveID	1.002	1.004		1.00	1.00	0.2	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.8864	0.8651		0.976	1.00	-2.4	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6841	0.6555		0.968	1.01	-4.2	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	1.020	0.9743		0.955	1.00	-4.5	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9257	0.8563		0.925	1.00	-7.5	40.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	1.331	1.310		0.984	1.00	-1.6	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.100	0.9696		0.882	1.00	-11.8	40.0
10:2 FTS	AveID	0.3501	0.3510		0.966	0.964	0.2	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2517	0.2191		0.842	0.968	-13.0	50.0
Perfluorotridecanoic acid (PFTriA)	AveID	0.8926	0.7434		0.833	1.00	-16.7	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1855	0.2040		1.10	1.00	10.0	40.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Lab Sample ID: ICV 200-162365/15 Calibration Date: 12/22/2020 13:46

Instrument ID: LC812 Calib Start Date: 12/22/2020 12:48

GC Column: C-18 ID: 4.60(mm) Calib End Date: 12/22/2020 13:29

Lab File ID: PA201222ICAL015.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-hexadecanoic acid (PFHxDA)	L1ID		0.9228		0.976	1.00	-2.4	40.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8998	0.8197		0.911	1.00	-8.9	50.0
13C4 PFBA	Ave	1.343	1.440		1.34	1.25	7.2	50.0
13C5 PFPeA	Ave	0.9710	1.024		1.32	1.25	5.4	50.0
13C3 PFBS	Ave	1.278	1.420		1.29	1.16	11.1	50.0
M2-4:2 FTS	Ave	0.1066	0.1123		1.23	1.17	5.3	50.0
13C2 PFHxA	Ave	1.018	1.119		1.38	1.25	10.0	50.0
13C3 HFPO-DA	Ave	0.1792	0.1826		1.27	1.25	1.9	50.0
13C4 PFHpA	Ave	0.9742	1.059		1.36	1.25	8.7	50.0
18O2 PFHxS	Ave	0.9511	0.999		1.24	1.18	5.1	50.0
M2-6:2 FTS	Ave	0.1187	0.1266		1.27	1.19	6.6	50.0
13C4 PFOA	Ave	0.9896	1.051		1.33	1.25	6.2	50.0
13C4 PFOS	Ave	0.6528	0.7140		1.31	1.20	9.4	50.0
13C5 PFNA	Ave	0.8730	0.9003		1.29	1.25	3.1	50.0
13C2 PFDA	Ave	0.8346	0.8982		1.35	1.25	7.6	50.0
M2-8:2 FTS	Ave	0.1225	0.1369		1.34	1.20	11.8	50.0
13C8 FOSA	Ave	1.227	1.319		1.34	1.25	7.5	50.0
d3-NMeFOSAA	Ave	0.0605	0.0711		1.47	1.25	17.4	50.0
13C2 PFUnA	Ave	0.6856	0.7424		1.35	1.25	8.3	50.0
d5-NEtFOSAA	Ave	0.0585	0.0669		1.43	1.25	14.3	50.0
13C2 PFDoA	Ave	0.7238	0.7700		1.33	1.25	6.4	50.0
13C2 PFTeDA	Ave	0.5353	0.5430		1.27	1.25	1.4	50.0
13C2 PFHxDA	Ave	0.5718	0.5982		1.31	1.25	4.6	50.0

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL015.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 22-Dec-2020 13:46:11 ALS Bottle#: 9 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 200-0044184-015 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812
Sublist:

Method: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 22-Dec-2020 17:35:49 Calib Date: 22-Dec-2020 13:29:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1625

First Level Reviewer: deannd Date: 22-Dec-2020 14:47:35
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.089	2.091	-0.002	0.598	1286706	1.34		107	10620	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.089	2.091	-0.002	1.000	995801	0.9655			134	
D 3 13C5 PFPeA										
267.90 > 223.00	2.411	2.414	-0.003	0.690	914675	1.32		105	3225	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.411	2.414	-0.003	1.000	852414	1.05			34.1	
D 47 13C3 PFBS										
301.90 > 80.00	2.424	2.427	-0.003	0.694	1179594	1.29		111	210514	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.424	2.427	-0.003	1.000	1073531	0.9352	Target=2.21		1837	
298.90 > 99.00	2.424	2.427	-0.003	1.000	477983		2.25(1.11-3.32)		479	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.732	2.735	-0.003	1.000	153901	1.05			2132	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.732	2.735	-0.003	0.782	93671	1.23		105	95.9	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.768	2.771	-0.003	0.793	999764	1.37		110	3166	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.768	2.771	-0.003	1.000	837002	0.9579	Target=12.83		226	
313.00 > 119.00	2.768	2.771	-0.003	1.000	69550		12.03(6.42-19.25)		131	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.768	2.771	-0.003	0.884	978046	1.04	Target=3.35		1810	
349.00 > 99.00	2.768	2.771	-0.003	0.884	290538		3.37(1.67-5.02)		531	
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.878	2.881	-0.003	1.004	179615	0.99			21.8	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.866	2.881	-0.015	0.821	163101	1.27		102	882	
D 11 18O2 PFHxS										
403.00 > 84.00	3.132	3.133	-0.001	0.897	844475	1.24		105	2048	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.132	3.133	-0.001	1.000	820382	0.9748	Target=4.15		775	
399.00 > 99.00	3.132	3.133	-0.001	1.000	195522		4.20(2.08-6.23)		191	
D 9 13C4 PFHpA										
367.00 > 322.00	3.132	3.133	-0.001	0.897	946108	1.36		109	3648	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.132	3.133	-0.001	1.000	769336	0.9306	Target=3.66		186	
363.00 > 169.00	3.132	3.133	-0.001	1.000	217871		3.53(1.83-5.49)		561	
77 DONA										M
377.00 > 251.00	3.175	3.176	-0.001	0.835	1596917	0.9345	Target=2.43		1596	M
377.00 > 85.00	3.175	3.176	-0.001	0.835	673298		2.37(1.22-3.65)		635	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.483	3.484	-0.001	0.916	650457	0.9440	Target=5.95		1952	
449.00 > 99.00	3.483	3.484	-0.001	0.916	113064		5.75(2.98-8.93)		662	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.483	3.484	-0.001	0.997	107444	1.27		107	391	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.483	3.484	-0.001	1.000	98603	0.9797			1058	
D 14 13C4 PFOA										
417.00 > 372.00	3.492	3.493	-0.001	1.000	939234	1.33		106	3545	
* 62 13C2 PFOA										
415.00 > 370.00	3.492	3.493	-0.001		893380	1.25			3800	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.492	3.493	-0.001	1.000	798260	0.9801	Target=2.58		173	
413.00 > 169.00	3.492	3.493	-0.001	1.000	313074		2.55(1.29-3.87)		556	M
D 18 13C4 PFOS										
503.00 > 80.00	3.804	3.806	-0.002	1.089	609835	1.31		109	1419	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.804	3.806	-0.002	1.000	497497	0.8476	Target=5.65		745	M
499.00 > 99.00	3.804	3.806	-0.002	1.000	83138		5.98(2.82-8.47)		315	M
D 19 13C5 PFNA										
468.00 > 423.00	3.825	3.826	-0.001	1.095	804349	1.29		103	3803	
20 Perfluorononanoic acid										
463.00 > 419.00	3.825	3.826	-0.001	1.000	772486	1.08	Target=7.44		124	
463.00 > 169.00	3.825	3.826	-0.001	1.000	108335		7.13(3.72-11.16)		1027	
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.974	3.967	0.007	1.045	663606	1.01			2073	M
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.093	4.095	-0.002	1.076	423805	0.9678	Target=2.54		2252	
549.00 > 99.00	4.093	4.095	-0.002	1.076	149231		2.84(1.27-3.81)		422	
D 23 13C2 PFDA										
515.00 > 470.00	4.126	4.129	-0.003	1.182	802424	1.35		108	3715	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.126	4.129	-0.003	1.000	656856	0.99	Target=9.29		415	
513.00 > 169.00	4.126	4.129	-0.003	1.000	77788		8.44(4.64-13.93)		600	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.137	4.140	-0.003	1.000	61523	0.9245			601	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.137	4.140	-0.003	1.185	117176	1.34		112	929	
D 21 13C8 FOSA										
506.00 > 78.00	4.205	4.207	-0.002	1.204	1178726	1.34		108	2916	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.215	4.207	0.008	1.002	946696	1.00			1585	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.268	4.272	-0.004	1.222	63495	1.47		117	135	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.268	4.272	-0.004	1.000	43943	0.9760			183	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.358	4.362	-0.004	1.146	337879	0.9679	Target=2.80		1567	
599.00 > 99.00	4.358	4.362	-0.004	1.146	116326		2.90(1.40-4.19)		464	
D 30 13C2 PFUnA										
565.00 > 520.00	4.391	4.384	0.007	1.257	663214	1.35		108	3106	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.391	4.395	-0.004	1.000	516949	0.9554	Target=8.12		189	
563.00 > 169.00	4.391	4.395	-0.004	1.000	63288		8.17(4.06-12.18)		786	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.402	4.395	0.007	1.261	59742	1.43		114	454	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.402	4.406	-0.004	1.000	40925	0.9250			425	M
66 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.480	4.485	-0.005	1.178	668588	0.9840			2444	
D 36 13C2 PFDoA										
615.00 > 570.00	4.622	4.626	-0.004	1.323	687932	1.33		106	2818	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.622	4.626	-0.004	1.000	533635	0.8816	Target=6.91		129	
613.00 > 169.00	4.622	4.626	-0.004	1.000	79300		6.73(3.45-10.36)		1061	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.642	4.637	0.005	1.122	33105	0.9662			862	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.801	4.797	0.004	1.262	108210	0.8425	Target=0.51		337	
699.00 > 99.00	4.801	4.797	0.004	1.262	213860		0.51(0.26-0.77)		928	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.834	4.839	-0.005	1.046	409140	0.8329	Target=4.39		128	
663.00 > 169.00	4.834	4.839	-0.005	1.046	96668		4.23(2.20-6.59)		916	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.024	5.027	-0.003	1.439	485141	1.27		101	2501	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.033	5.027	0.006	1.002	79193	1.10	Target=1.06		1257	
713.00 > 219.00	5.024	5.027	-0.003	1.000	78129		1.01(0.53-1.59)		2313	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.383	5.374	0.009	1.541	534444	1.31		105	2052	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.383	5.374	0.009	1.000	394543	0.9757	Target=3.84		122	
813.00 > 169.00	5.383	5.374	0.009	1.000	97920		4.03(1.92-5.76)		1211	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.729	5.722	0.007	1.064	350452	0.9110	Target=3.92		214	
913.00 > 169.00	5.720	5.722	-0.002	1.063	90477		3.87(1.96-5.88)		762	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

LCPFAS28NCICV_00006 Amount Added: 100.00 Units: uL

Report Date: 22-Dec-2020 17:35:49 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL015.d

Injection Date: 22-Dec-2020 13:46:11 Instrument ID: LC812

Lims ID: ICV

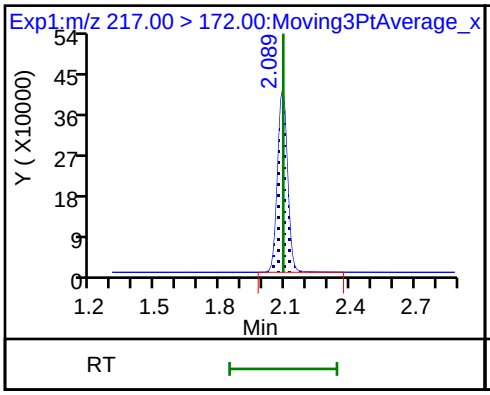
Client ID:

Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 15

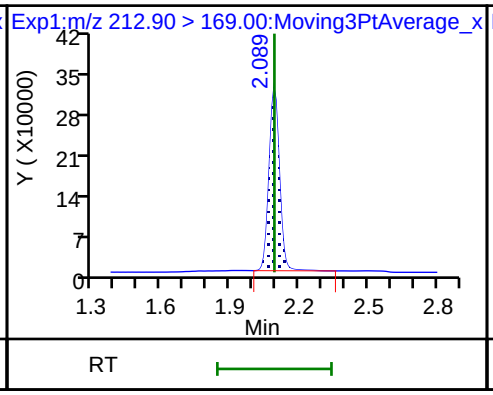
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

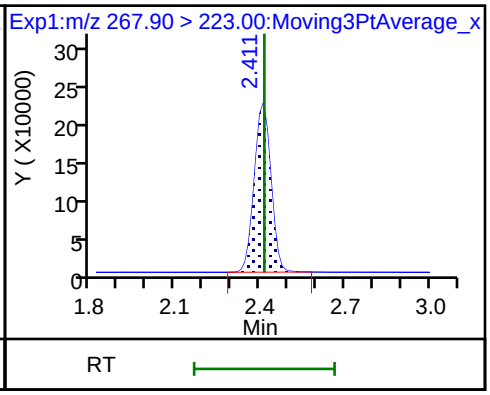
D 1 13C4 PFBA



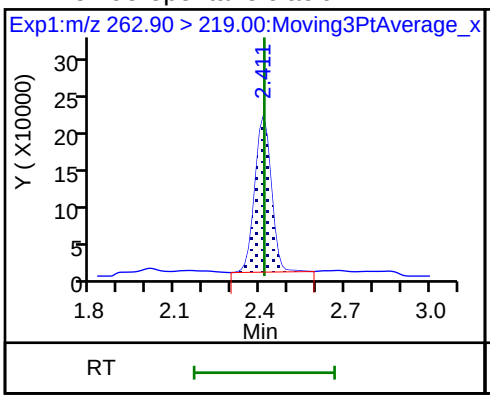
2 Perfluorobutanoic acid



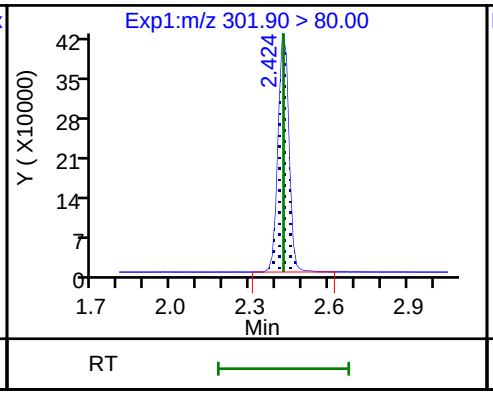
D 3 13C5 PFPeA



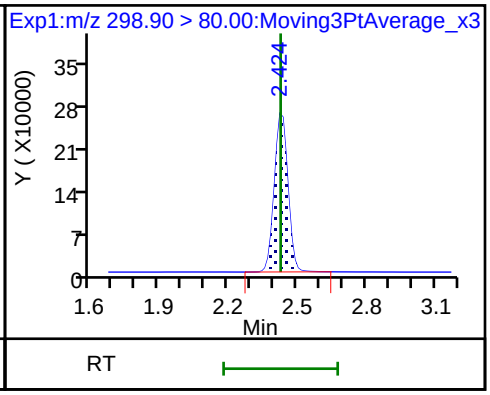
4 Perfluoropentanoic acid



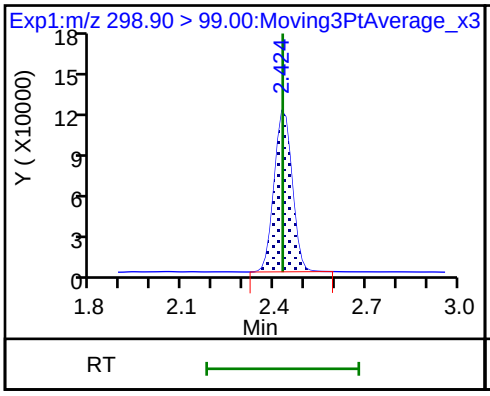
D 47 13C3 PFBS



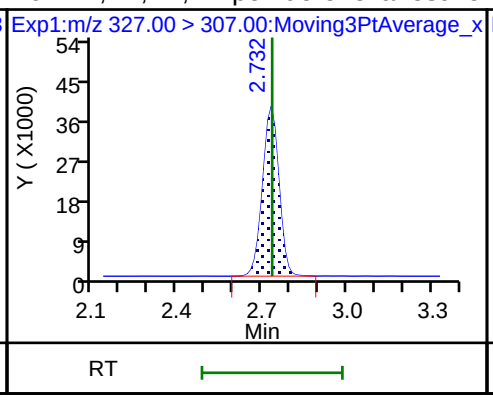
5 Perfluorobutanesulfonic acid



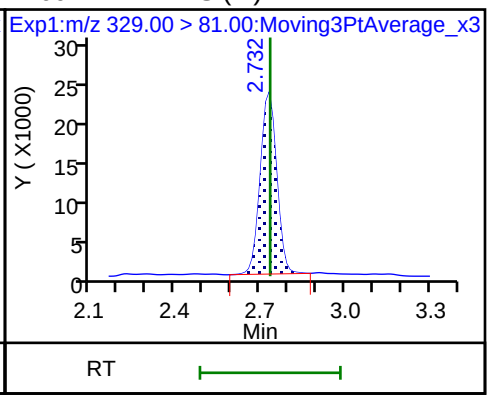
5 Perfluorobutanesulfonic acid



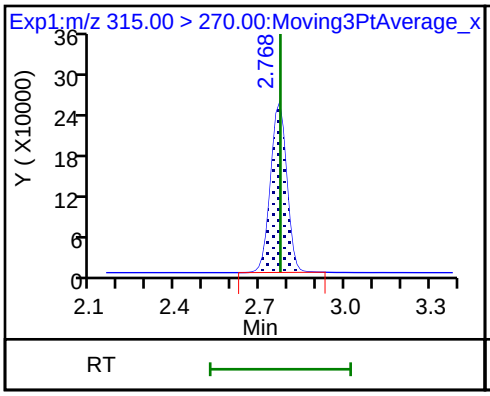
61 1H,1H,2H,2H-perfluorohexanesulfo



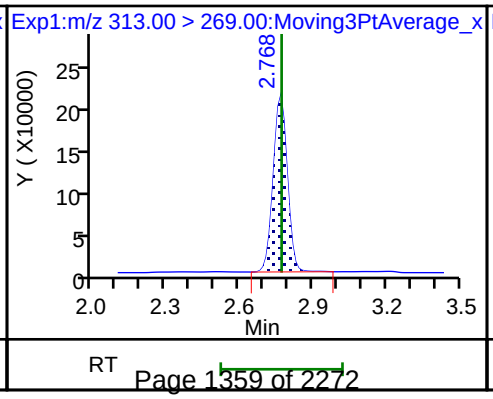
D 60 M2-4:2 FTS (M)



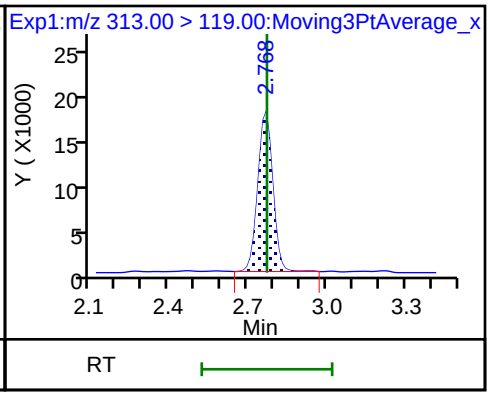
D 7 13C2 PFHxA



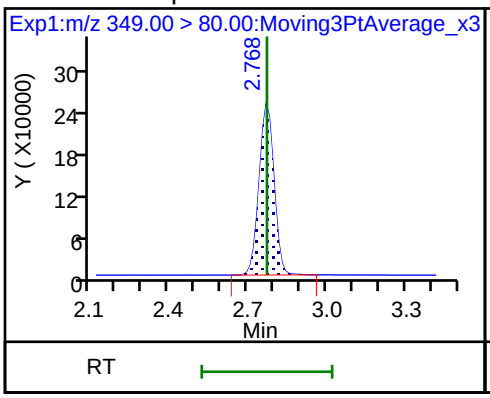
6 Perfluorohexanoic acid



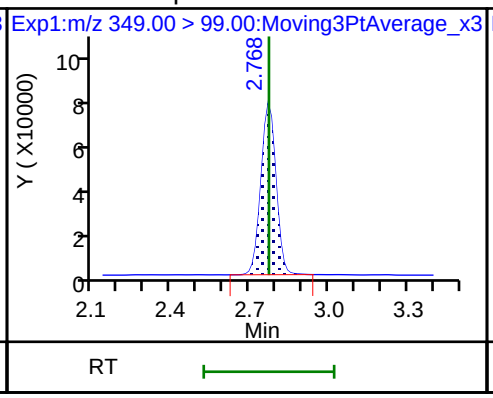
6 Perfluorohexanoic acid



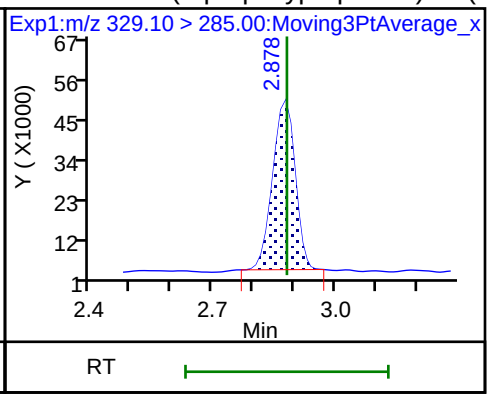
70 Perfluoropentanesulfonic acid



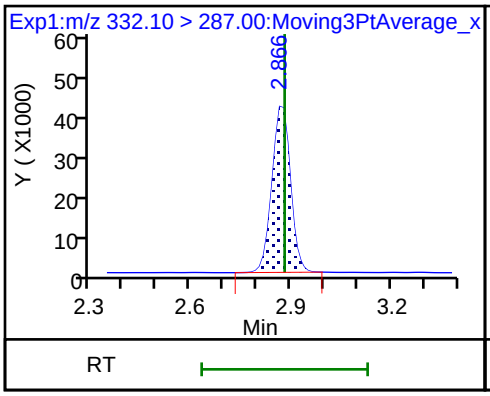
70 Perfluoropentanesulfonic acid



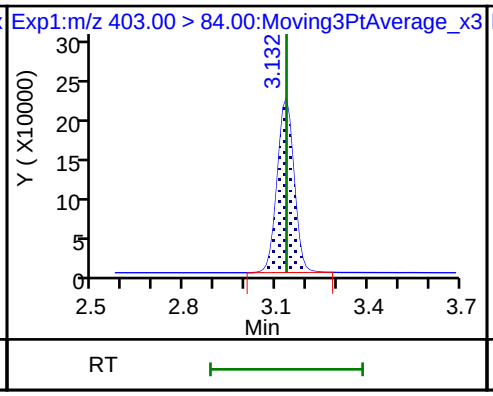
67 Perfluoro(2-propoxypropanoic) ac (M)



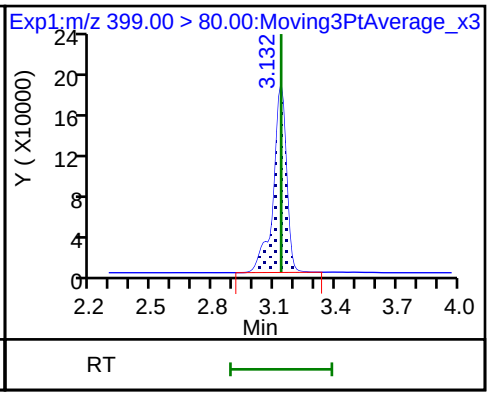
D 64 13C3 HFPO-DA



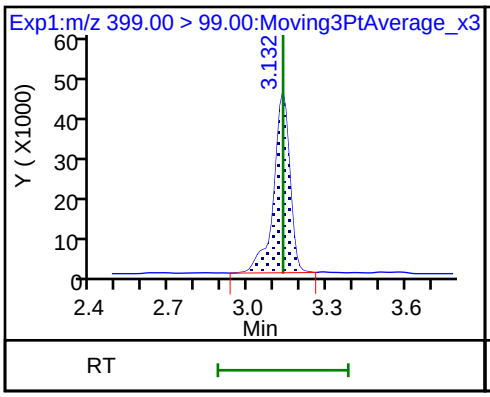
D 11 18O2 PFHxS



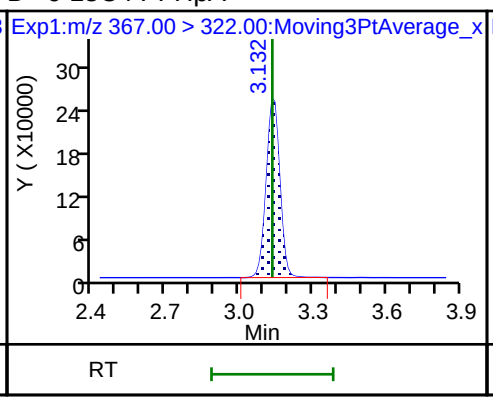
8 Perfluorohexanesulfonic acid



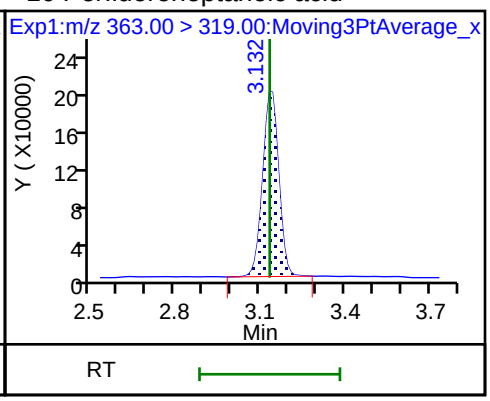
8 Perfluorohexanesulfonic acid



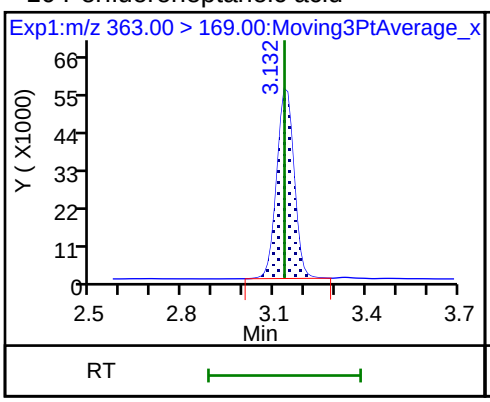
D 9 13C4 PFHpA



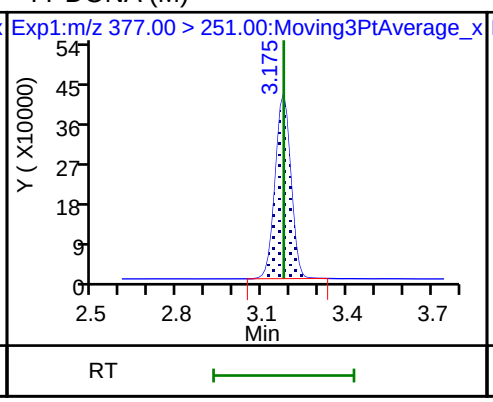
10 Perfluoroheptanoic acid



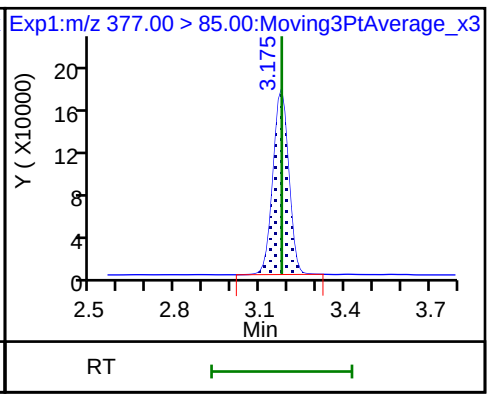
10 Perfluoroheptanoic acid



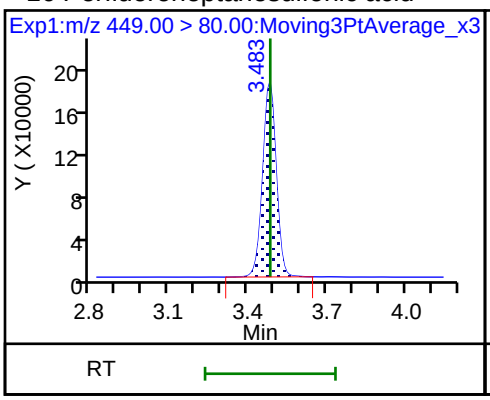
77 DONA (M)



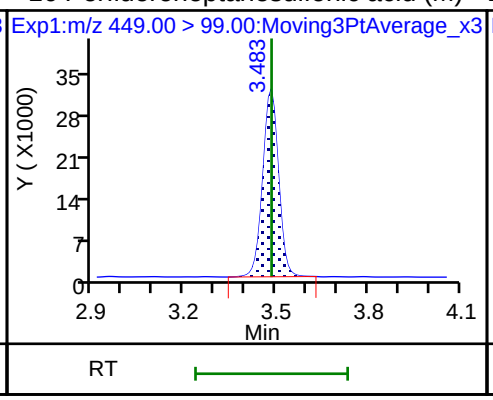
77 DONA



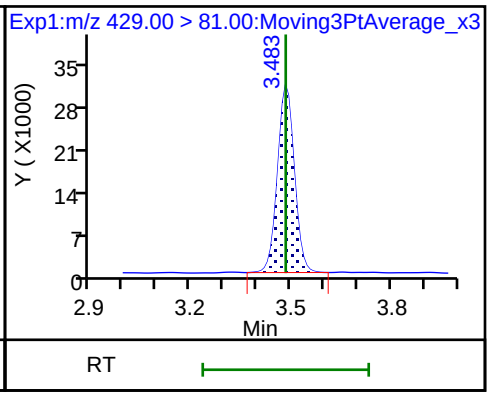
16 Perfluoroheptanesulfonic acid



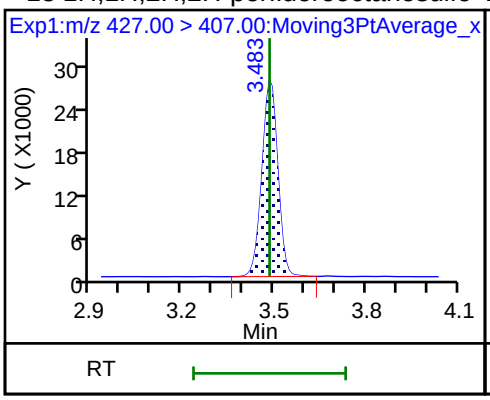
16 Perfluoroheptanesulfonic acid (M)



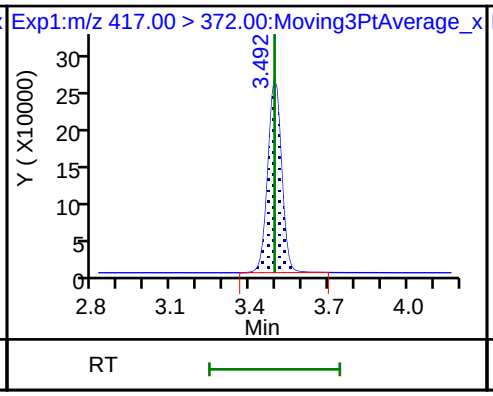
D 12 M2-6:2 FTS



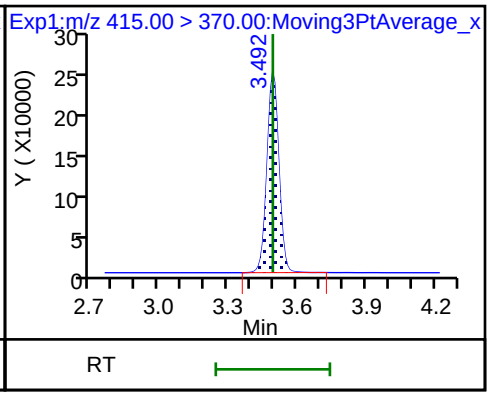
13 1H,1H,2H,2H-perfluorooctanesulfo



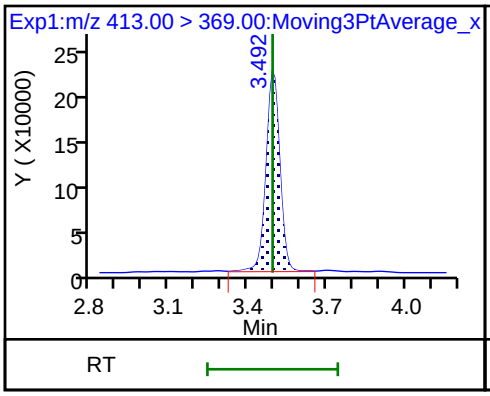
D 14 13C4 PFOA



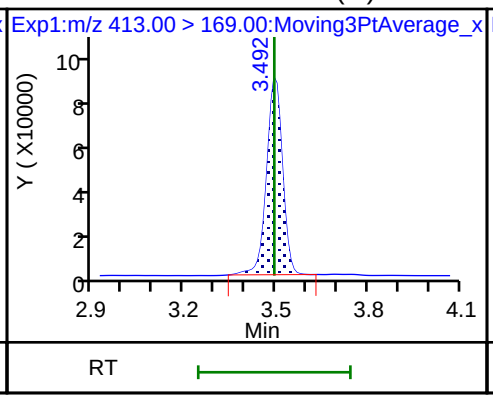
* 62 13C2 PFOA



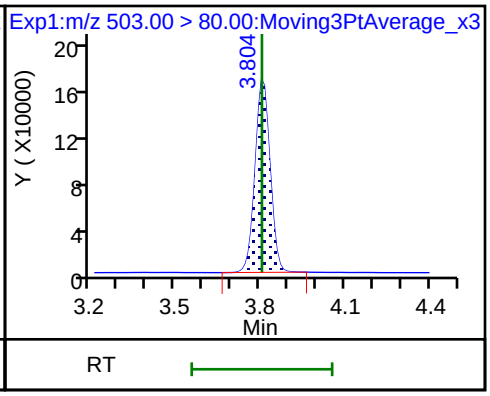
15 Perfluorooctanoic acid



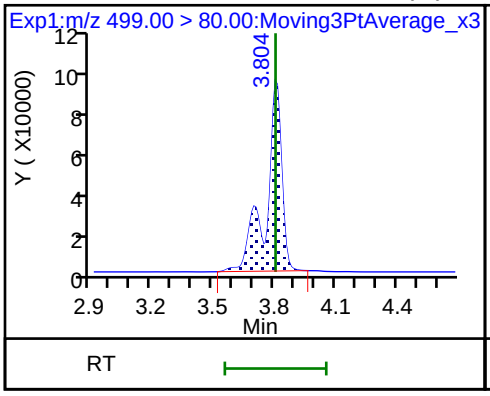
15 Perfluorooctanoic acid (M)



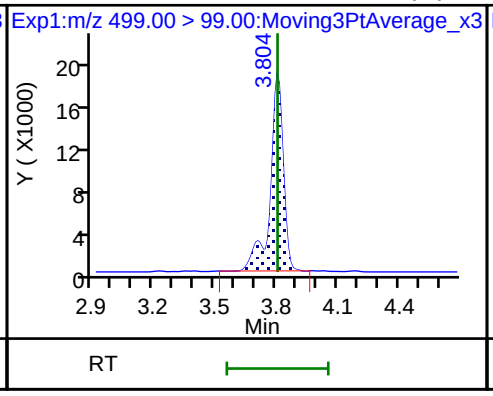
D 18 13C4 PFOS



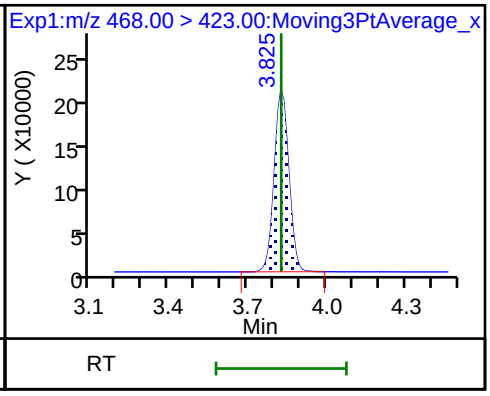
17 Perfluorooctanesulfonic acid (M)



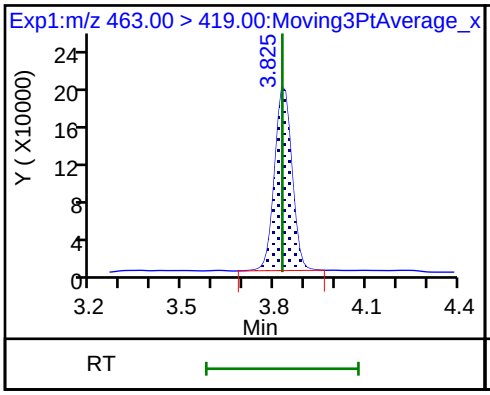
17 Perfluorooctanesulfonic acid (M)



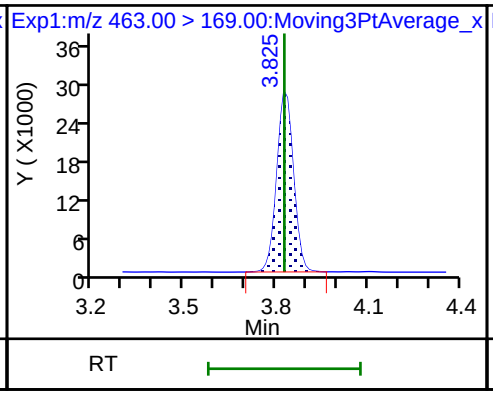
D 19 13C5 PFNA



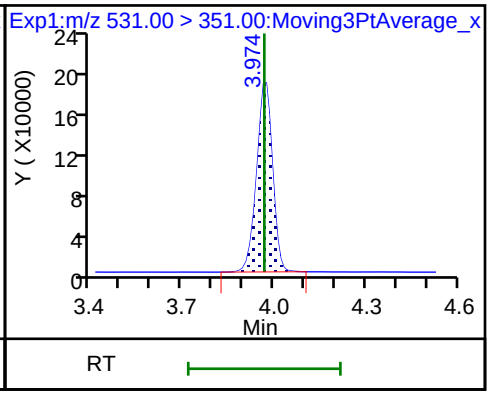
20 Perfluorononanoic acid



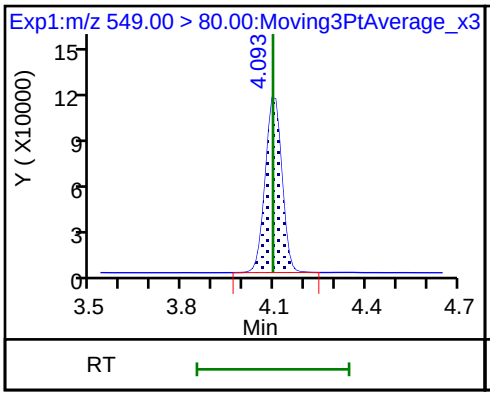
20 Perfluorononanoic acid



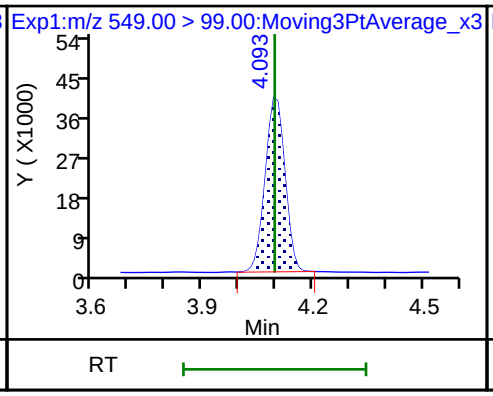
69 9-Chlorohexadecafluoro-3-oxanona (M)



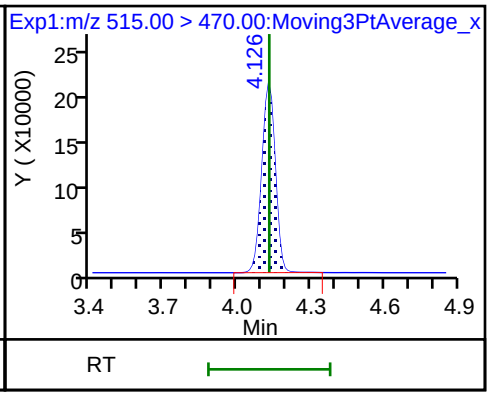
68 Perfluorononanesulfonic acid



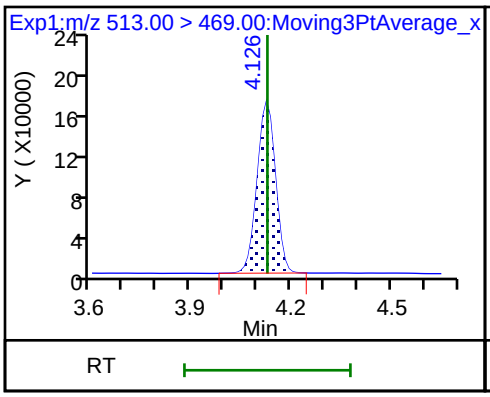
68 Perfluorononanesulfonic acid



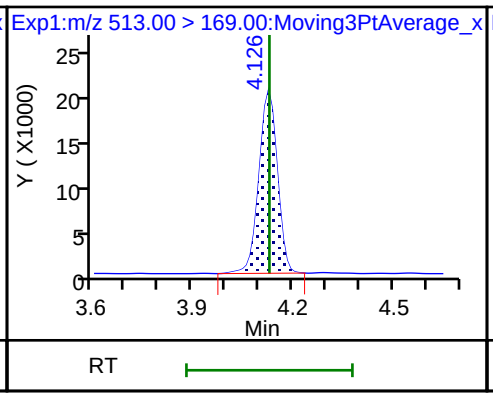
D 23 13C2 PFDA



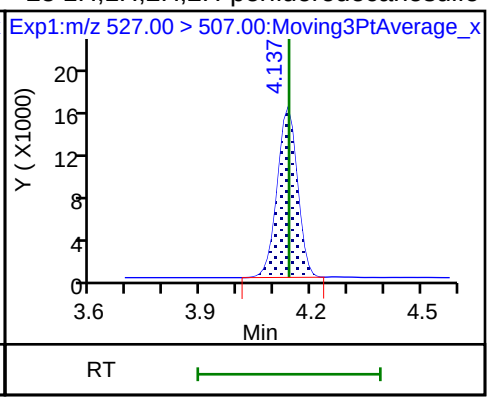
24 Perfluorodecanoic acid



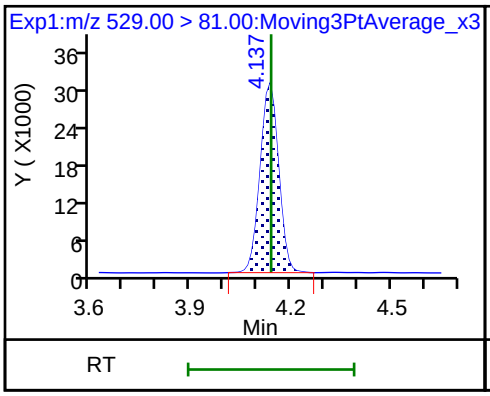
24 Perfluorodecanoic acid



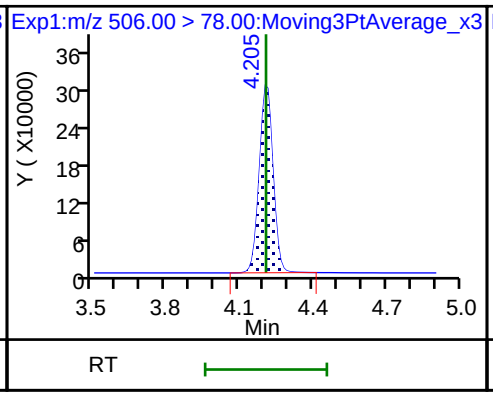
25 1H,1H,2H,2H-perfluorodecanesulfo



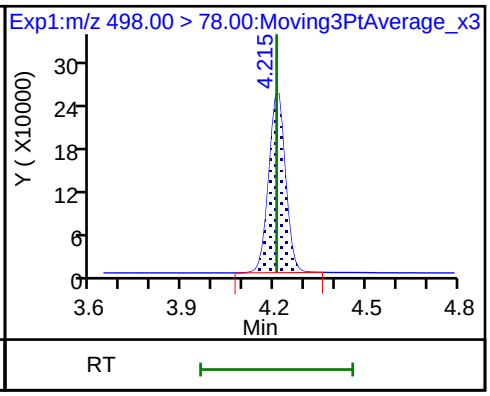
D 26 M2-8:2 FTS



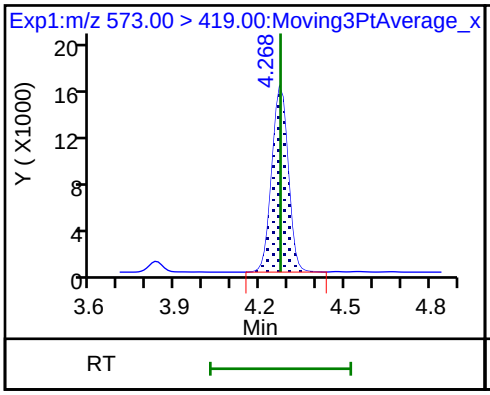
D 21 13C8 FOSA



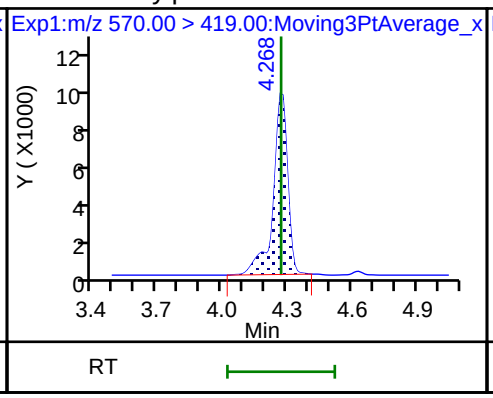
22 Perfluorooctanesulfonamide



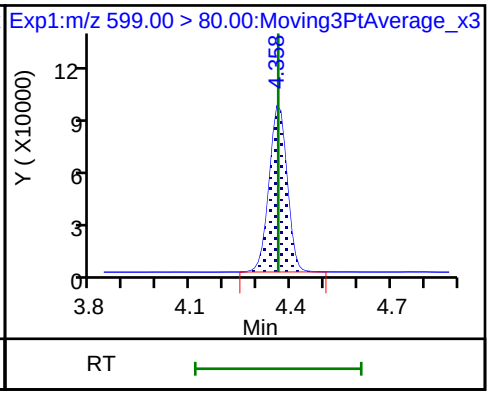
D 27 d3-NMeFOSAA



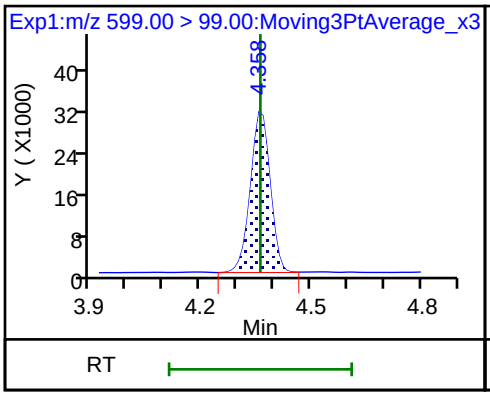
28 N-methylperfluorooctanesulfonami



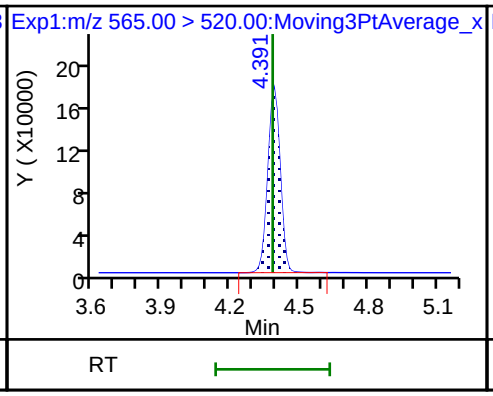
29 Perfluorodecanesulfonic acid



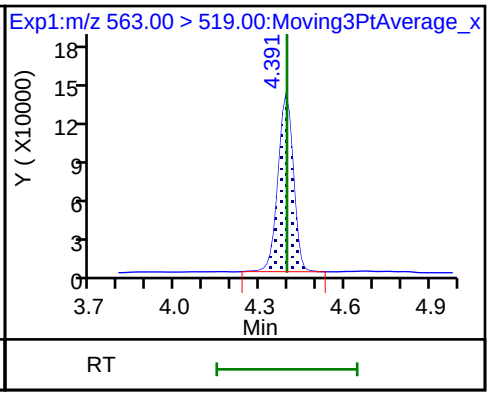
29 Perfluorodecanesulfonic acid



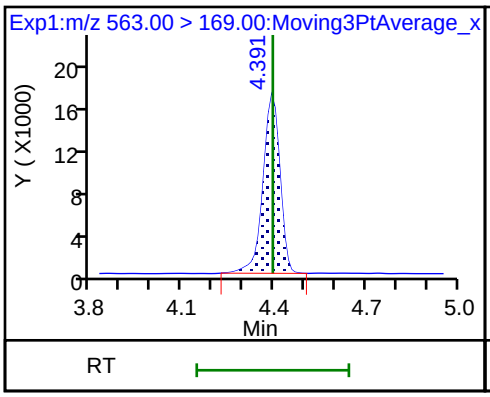
D 30 13C2 PFUnA



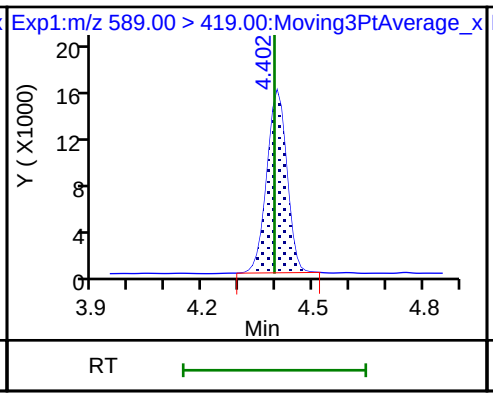
31 Perfluoroundecanoic acid



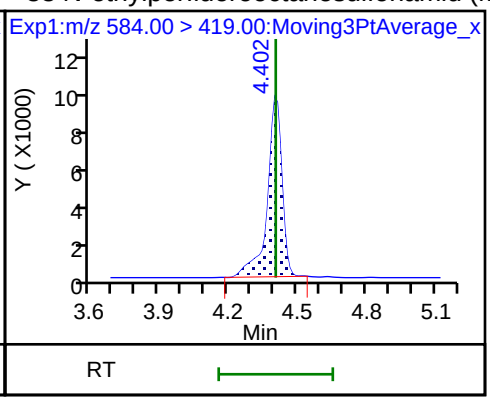
31 Perfluoroundecanoic acid



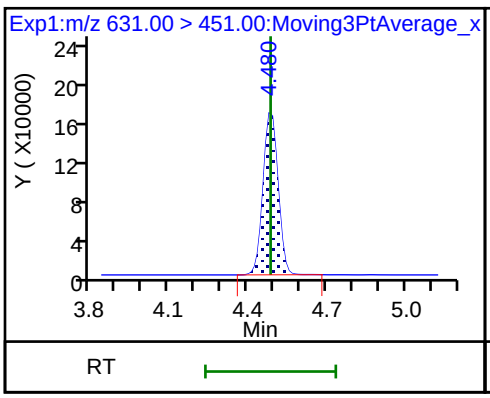
D 32 d5-NEtFOSAA



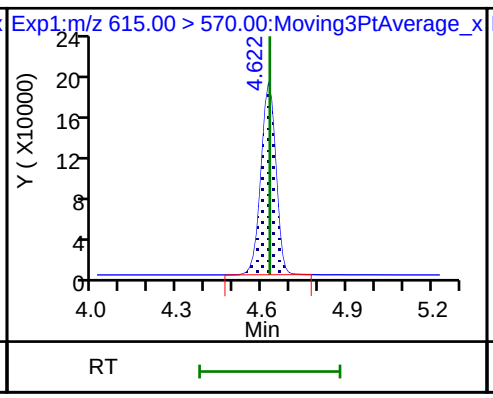
33 N-ethylperfluorooctanesulfonamid (M)



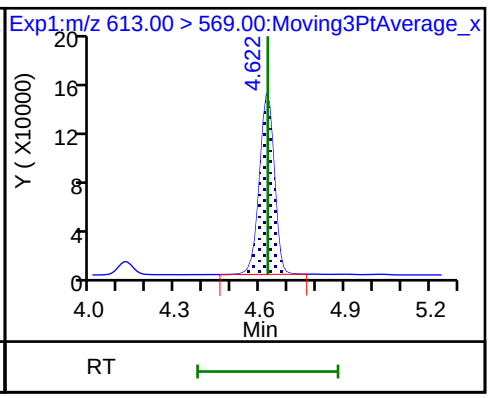
66 11-Chloroeicosafluoro-3-oxaundec



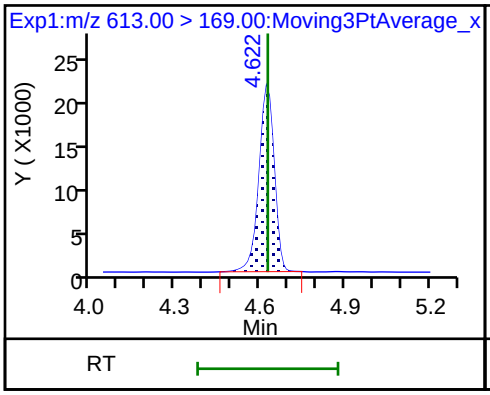
D 36 13C2 PFDoA



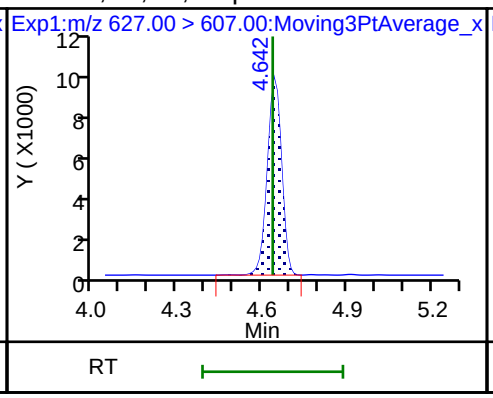
37 Perfluorododecanoic acid



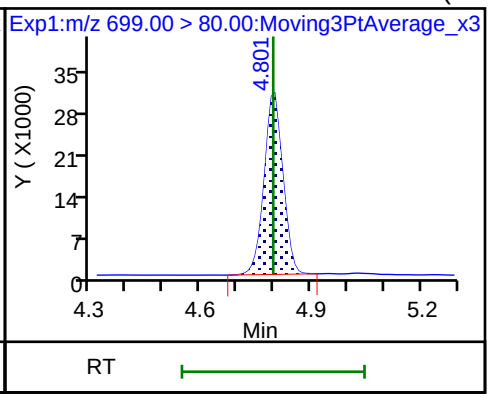
37 Perfluorododecanoic acid



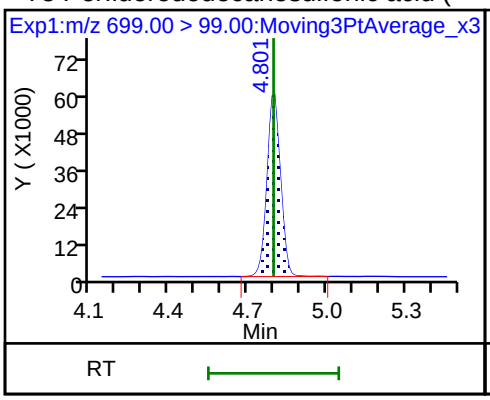
74 1H,1H,2H,2H-perfluorododecanesul



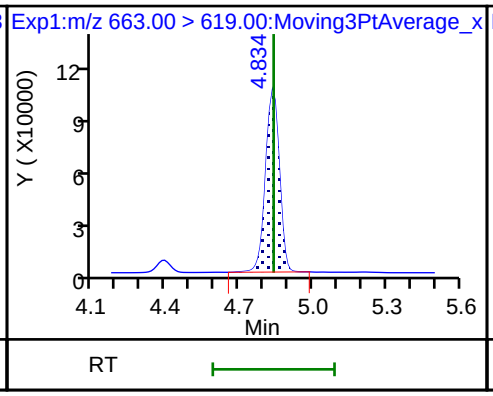
75 Perfluorododecanesulfonic acid (



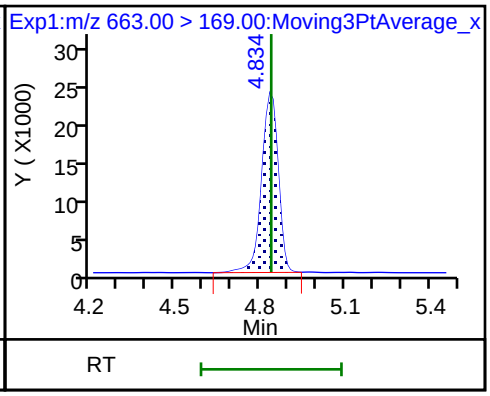
75 Perfluorododecanesulfonic acid (



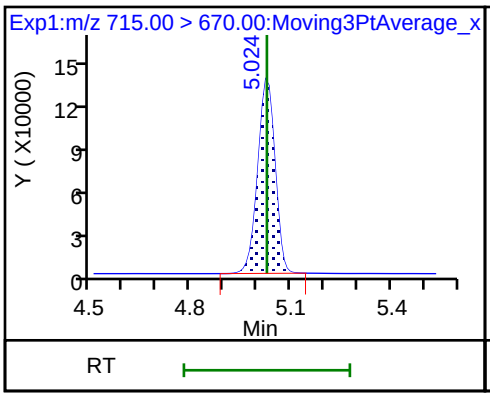
41 Perfluorotridecanoic acid



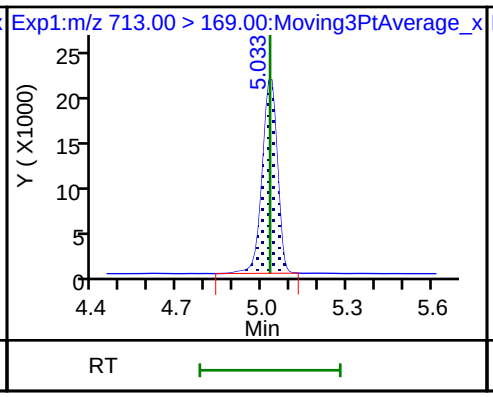
41 Perfluorotridecanoic acid



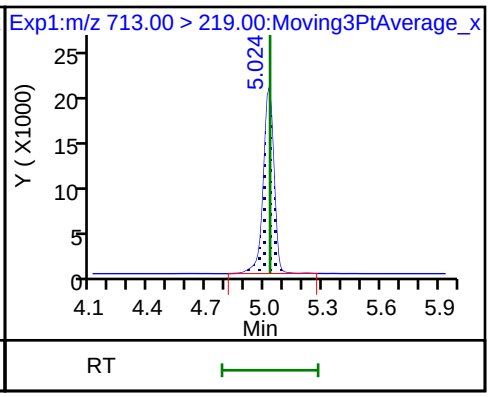
D 43 13C2 PFTeDA



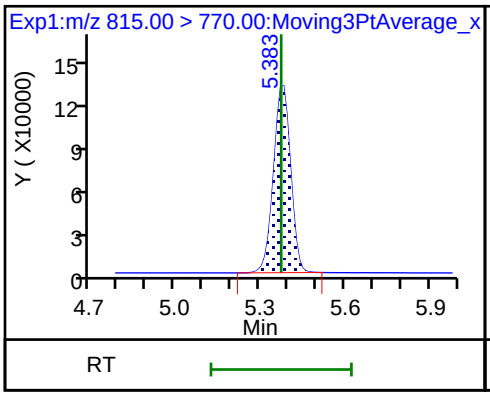
42 Perfluorotetradecanoic acid



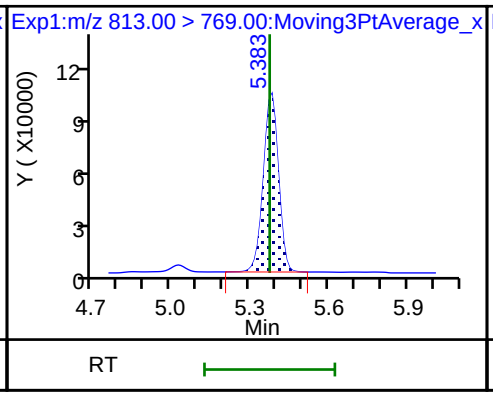
42 Perfluorotetradecanoic acid



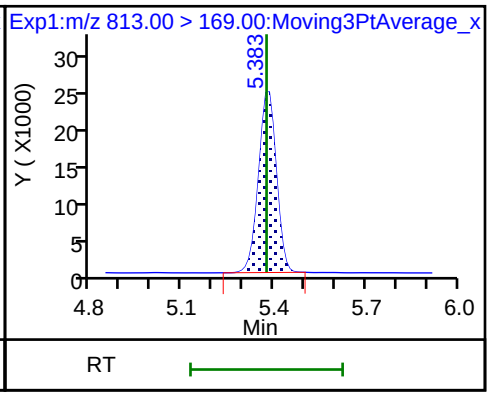
D 44 13C2 PFHxDA



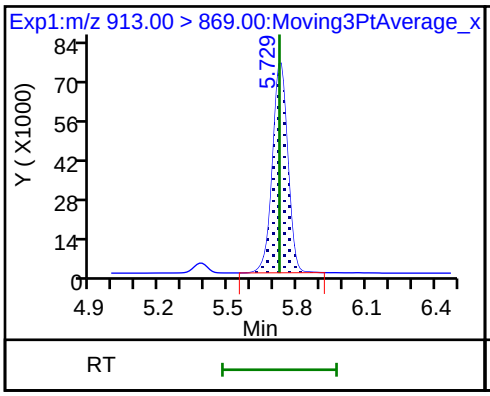
45 Perfluorohexadecanoic acid



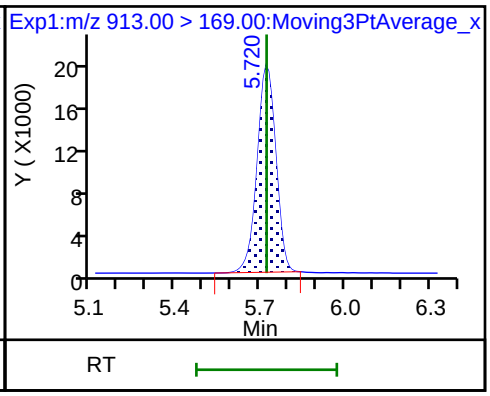
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

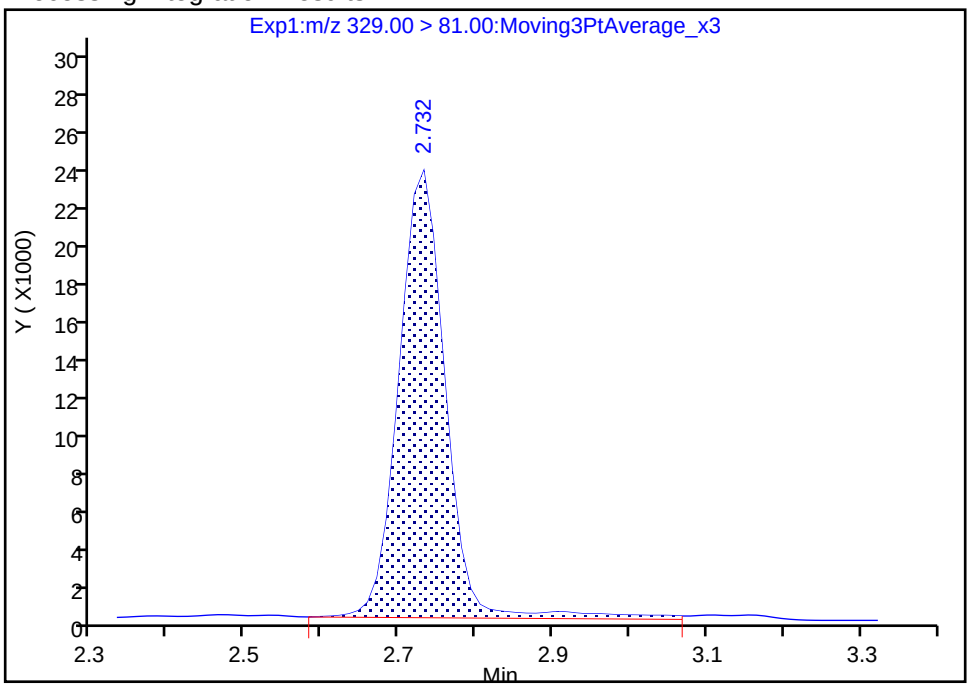
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL015.d				
Injection Date:	22-Dec-2020 13:46:11	Instrument ID:	LC812		
Lims ID:	ICV				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

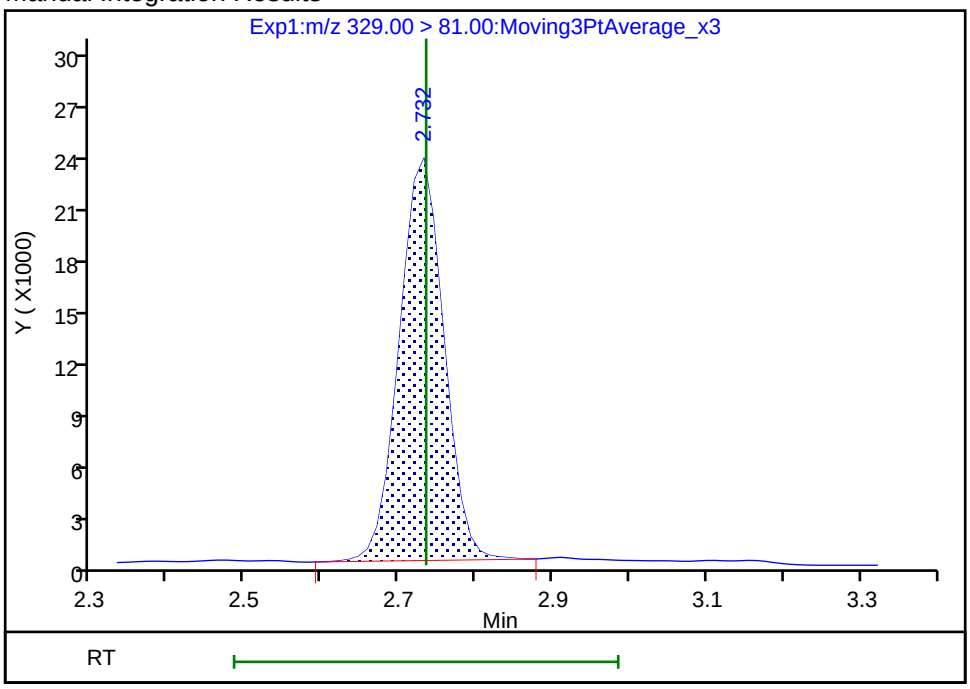
Processing Integration Results

RT: 2.73
Area: 98878
Amount: 1.297723
Amount Units: ng/ml



Manual Integration Results

RT: 2.73
Area: 93671
Amount: 1.229384
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:47:09
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

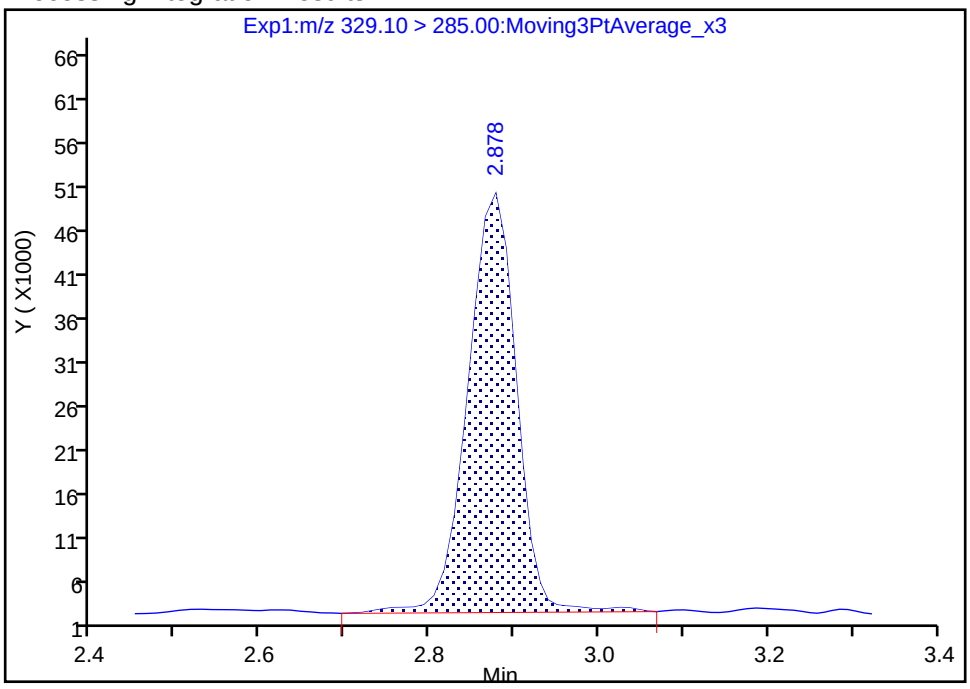
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL015.d				
Injection Date:	22-Dec-2020 13:46:11	Instrument ID:	LC812		
Lims ID:	ICV				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

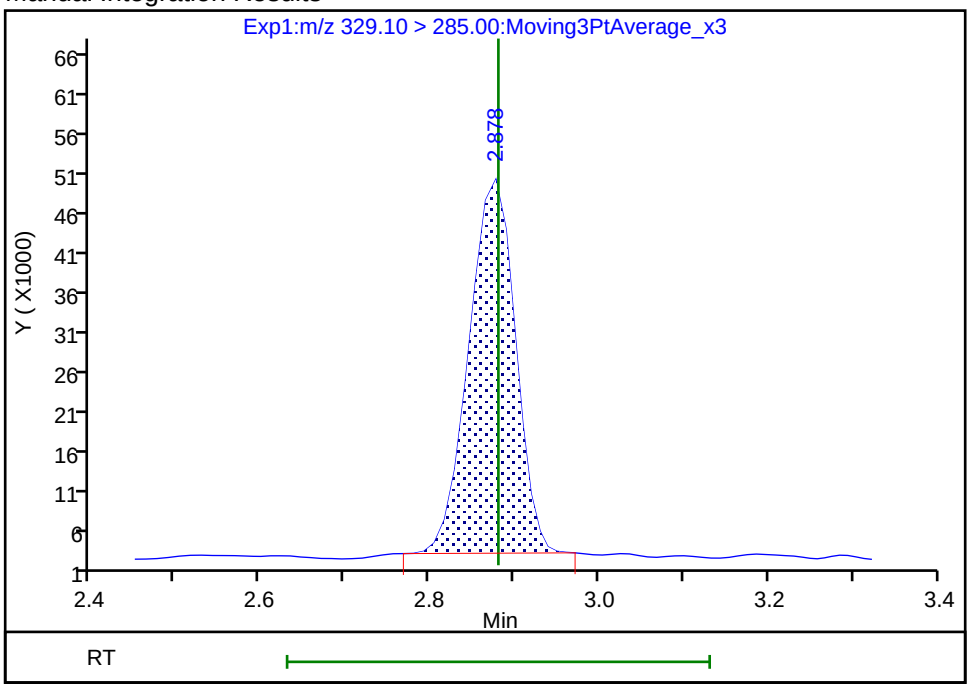
Processing Integration Results

RT: 2.88
Area: 190571
Amount: 1.054238
Amount Units: ng/ml



Manual Integration Results

RT: 2.88
Area: 179615
Amount: 0.993629
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:51:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

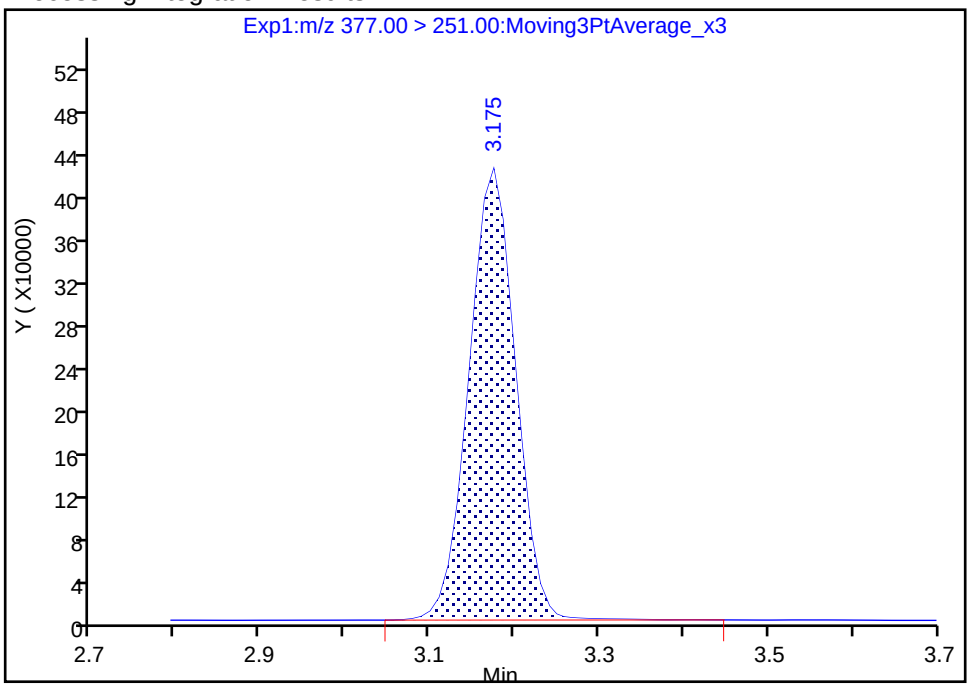
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL015.d				
Injection Date:	22-Dec-2020 13:46:11	Instrument ID:	LC812		
Lims ID:	ICV				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

77 DONA, CAS: 919005-14-4

Signal: 1

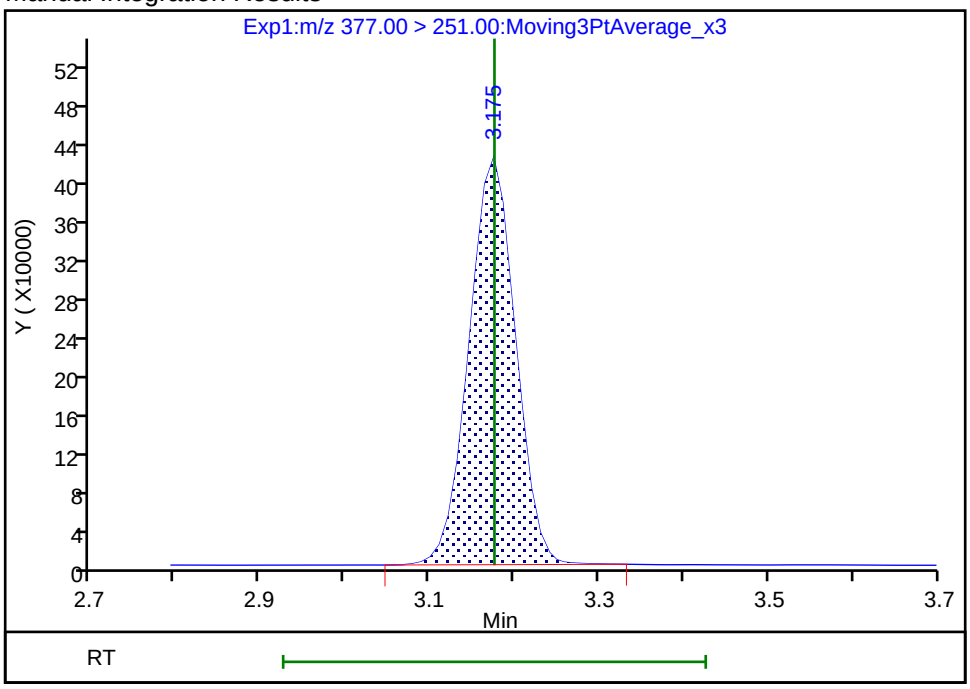
Processing Integration Results

RT: 3.18
Area: 1603901
Amount: 0.938593
Amount Units: ng/ml



Manual Integration Results

RT: 3.18
Area: 1596917
Amount: 0.934506
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:52:01

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

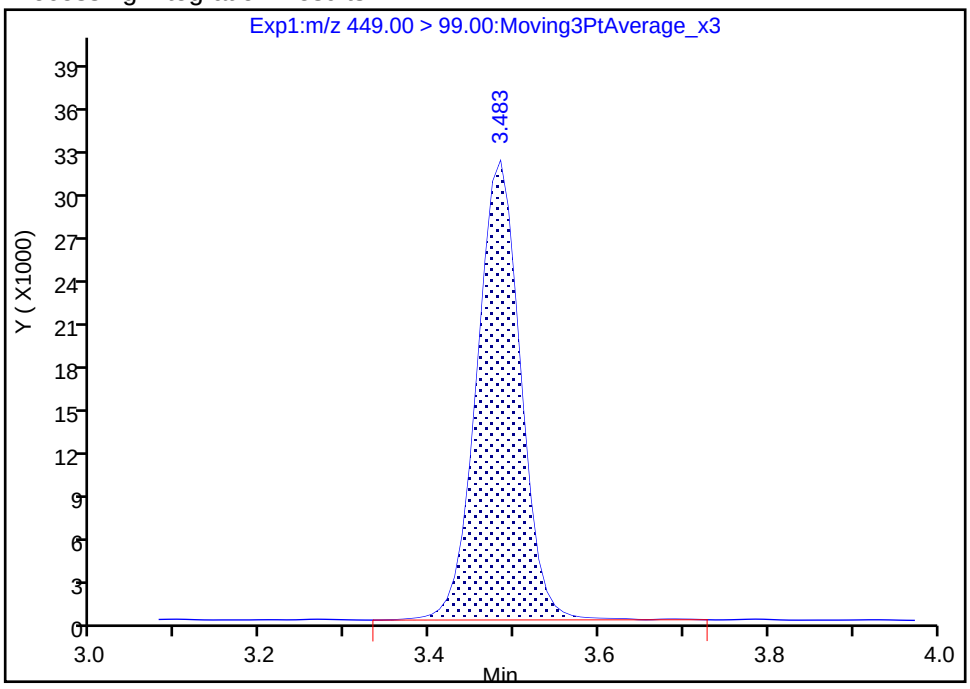
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL015.d				
Injection Date:	22-Dec-2020 13:46:11	Instrument ID:	LC812		
Lims ID:	ICV				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

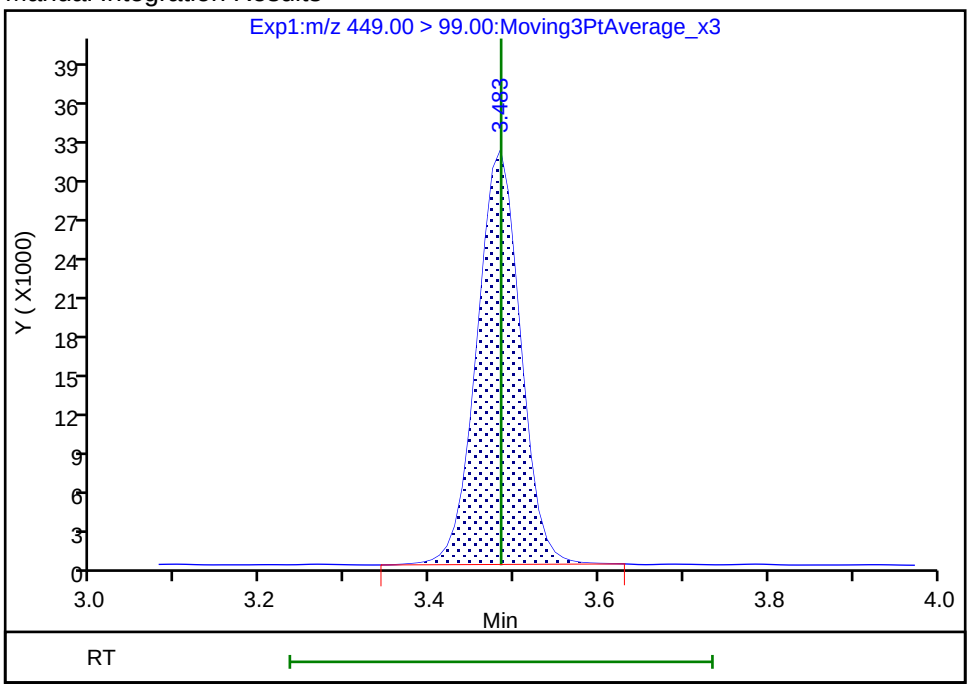
Processing Integration Results

RT: 3.48
Area: 113795
Amount: 0.944028
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 113064
Amount: 0.944028
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 14:52:59
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

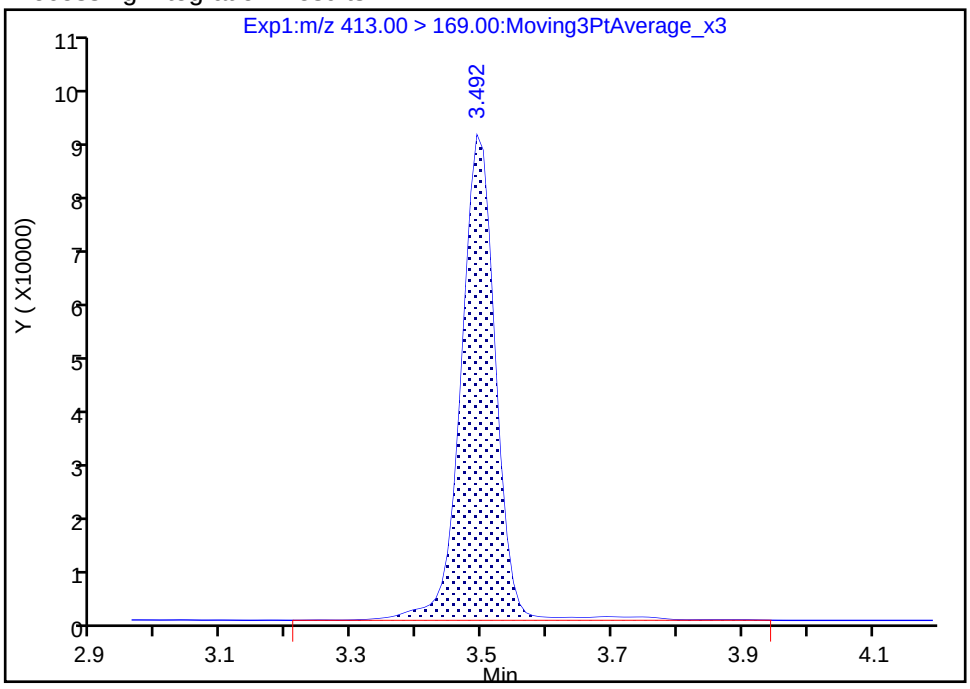
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL015.d				
Injection Date:	22-Dec-2020 13:46:11	Instrument ID:	LC812		
Lims ID:	ICV				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

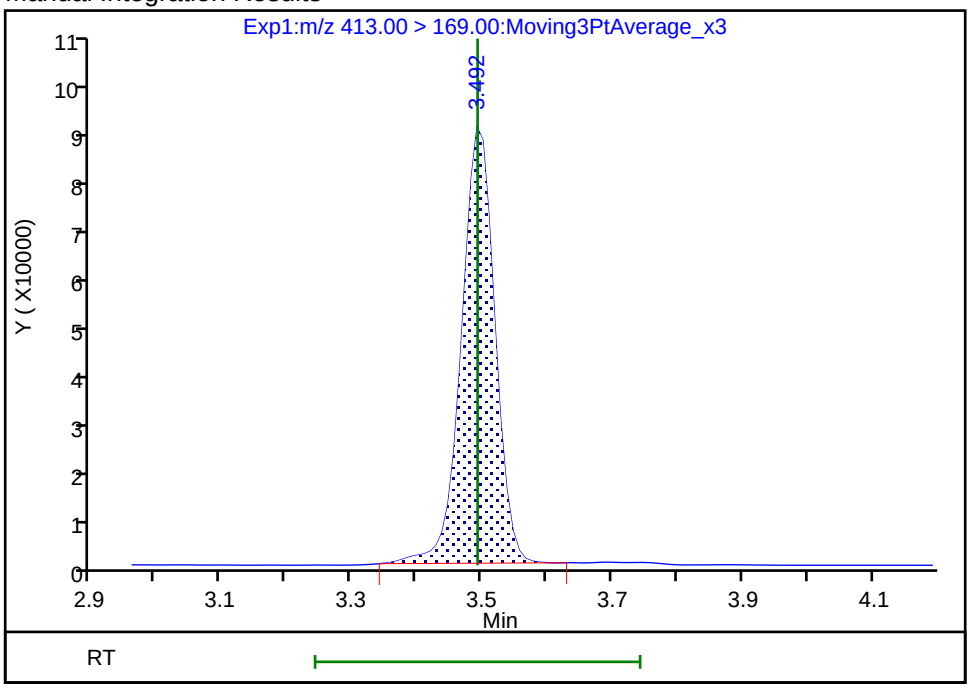
Processing Integration Results

RT: 3.49
Area: 325524
Amount: 0.980093
Amount Units: ng/ml



Manual Integration Results

RT: 3.49
Area: 313074
Amount: 0.980093
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 16:12:49

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

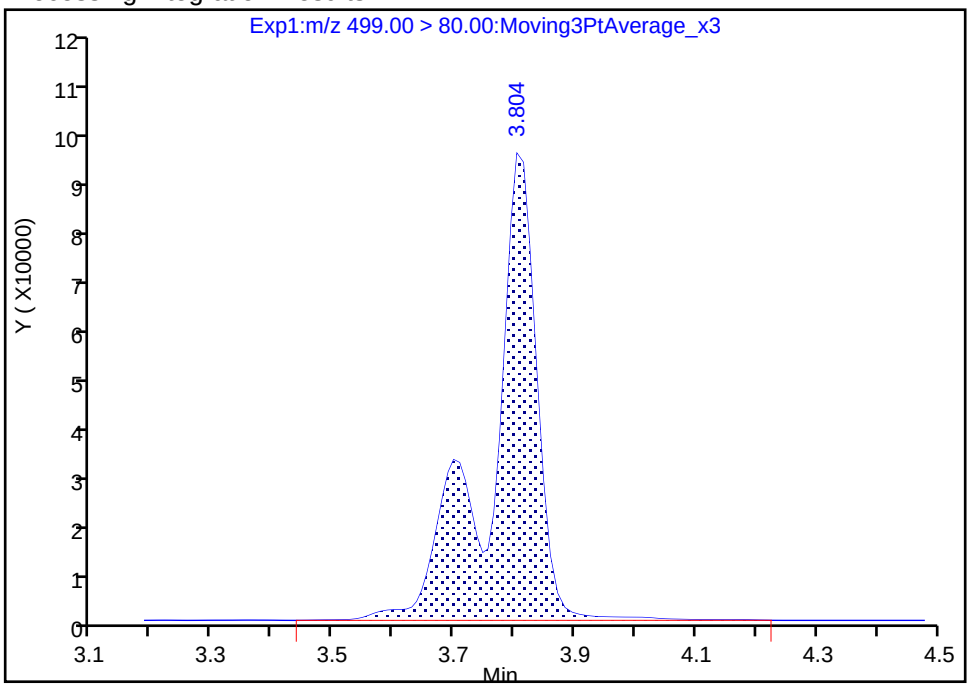
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL015.d				
Injection Date:	22-Dec-2020 13:46:11	Instrument ID:	LC812		
Lims ID:	ICV				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

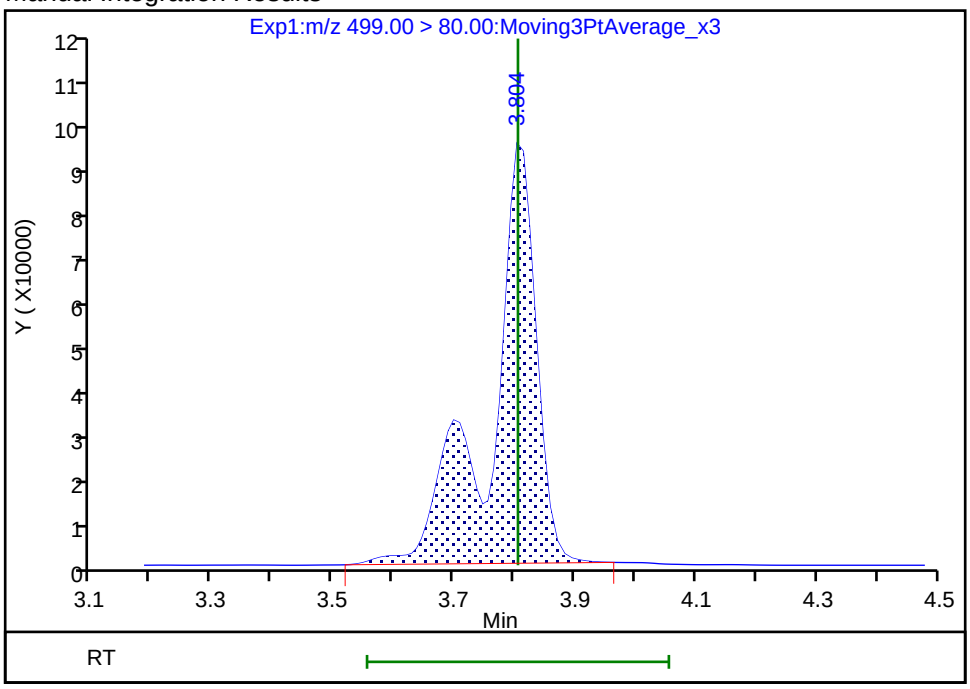
Processing Integration Results

RT: 3.80
Area: 511211
Amount: 0.871004
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 497497
Amount: 0.847638
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 16:12:58
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

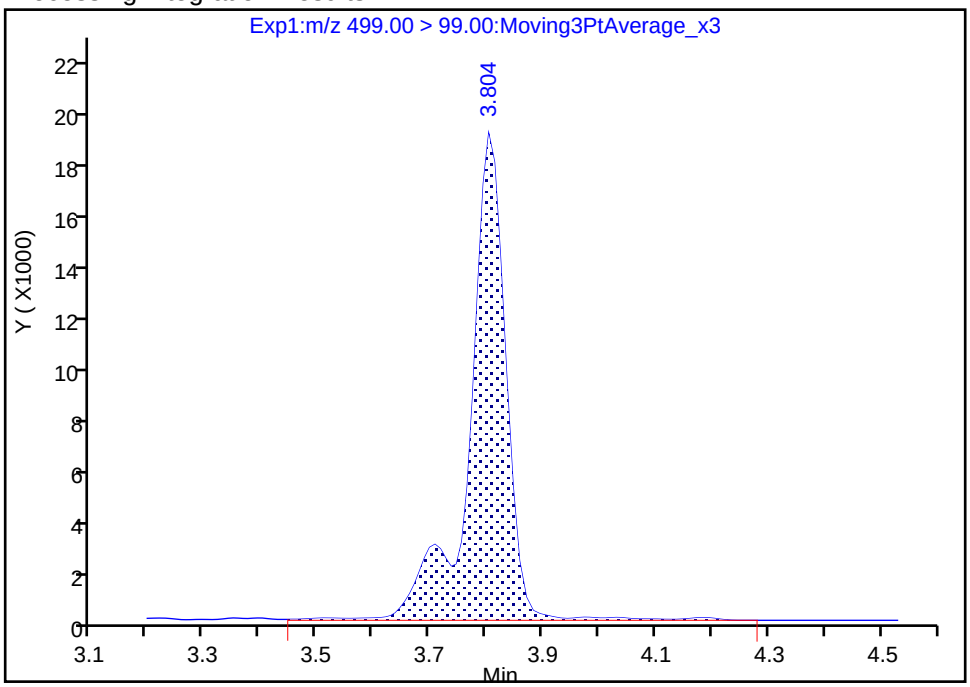
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL015.d				
Injection Date:	22-Dec-2020 13:46:11	Instrument ID:	LC812		
Lims ID:	ICV				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

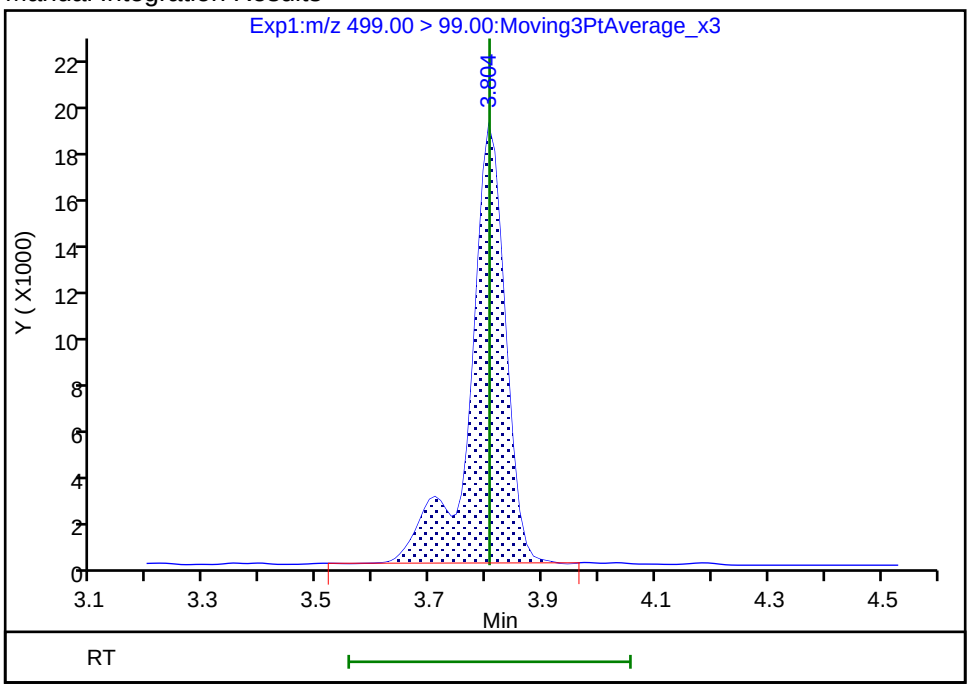
Processing Integration Results

RT: 3.80
Area: 86985
Amount: 0.871004
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 83138
Amount: 0.847638
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 16:13:03

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

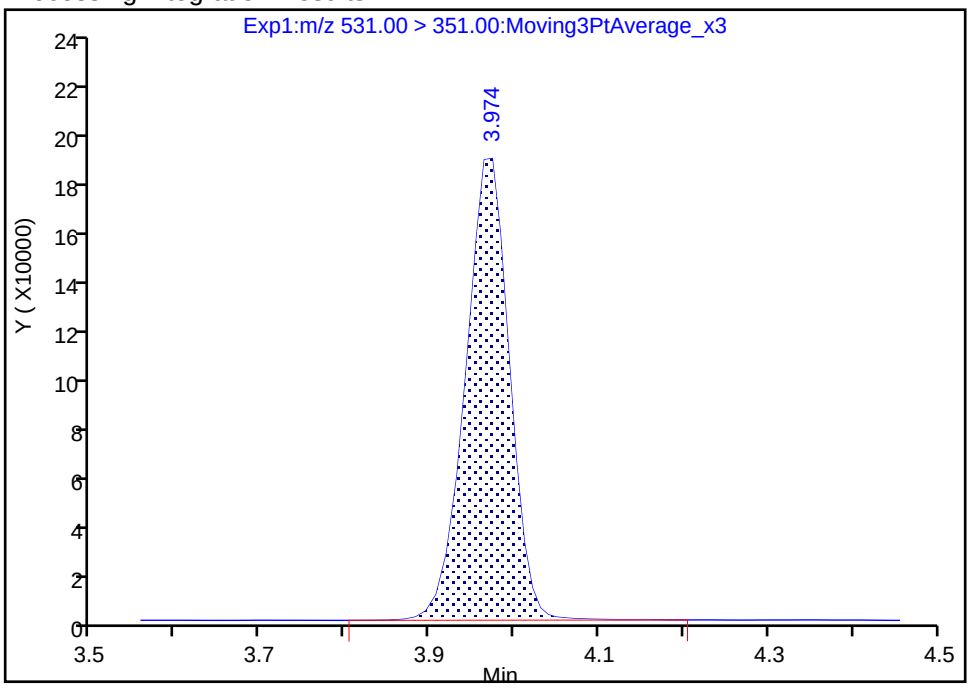
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL015.d				
Injection Date:	22-Dec-2020 13:46:11	Instrument ID:	LC812		
Lims ID:	ICV				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

69 9-Chlorohexadecafluoro-3-oxanona, CAS: 756426-58-1

Signal: 1

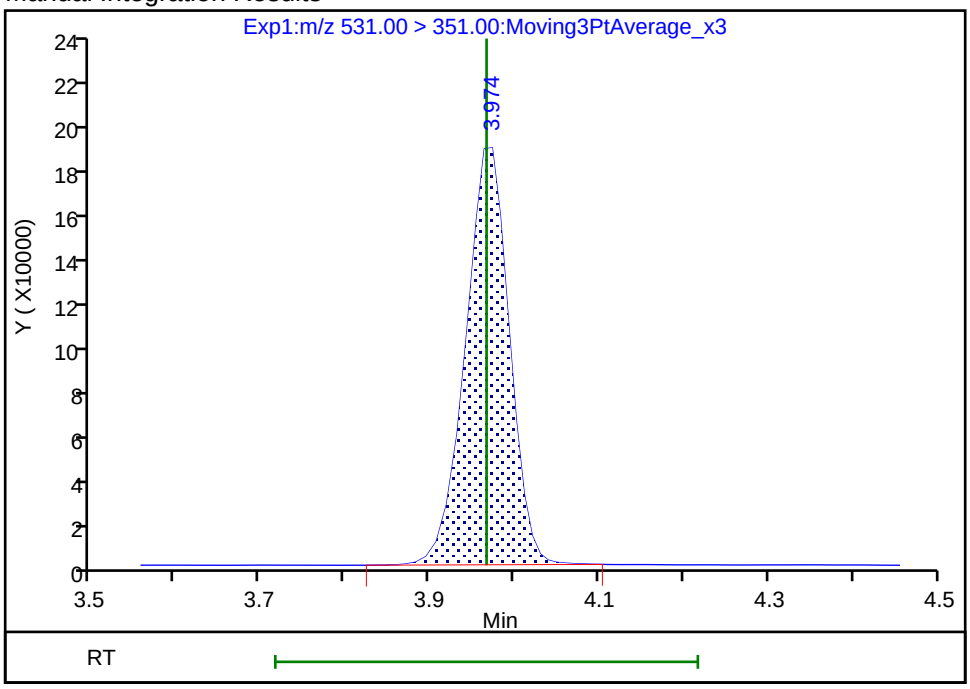
Processing Integration Results

RT: 3.97
Area: 666443
Amount: 1.017705
Amount Units: ng/ml



Manual Integration Results

RT: 3.97
Area: 663606
Amount: 1.013372
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 16:13:11

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

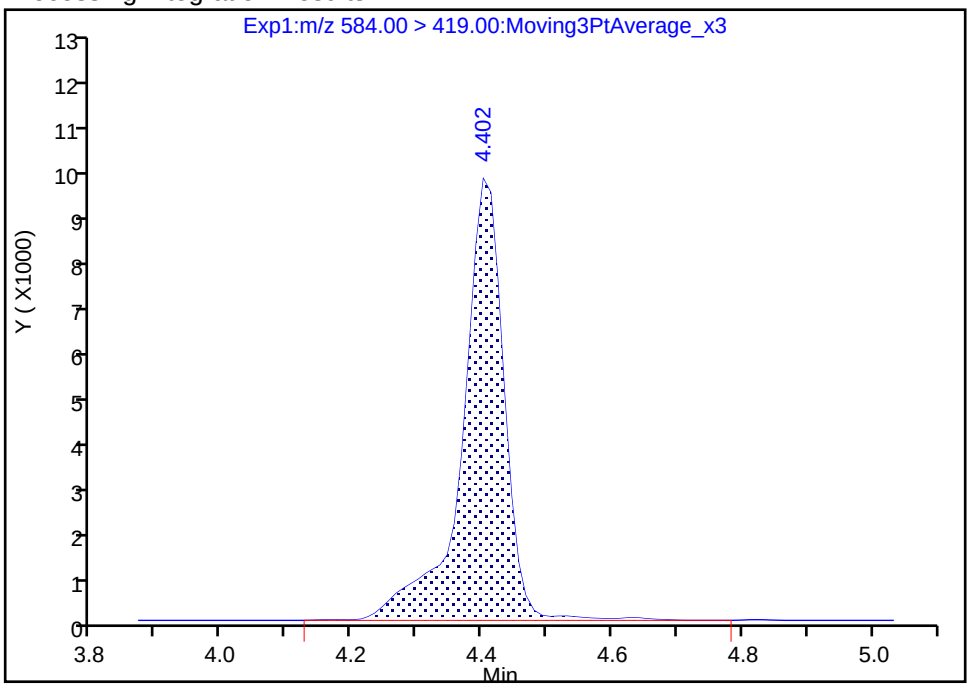
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL015.d				
Injection Date:	22-Dec-2020 13:46:11	Instrument ID:	LC812		
Lims ID:	ICV				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

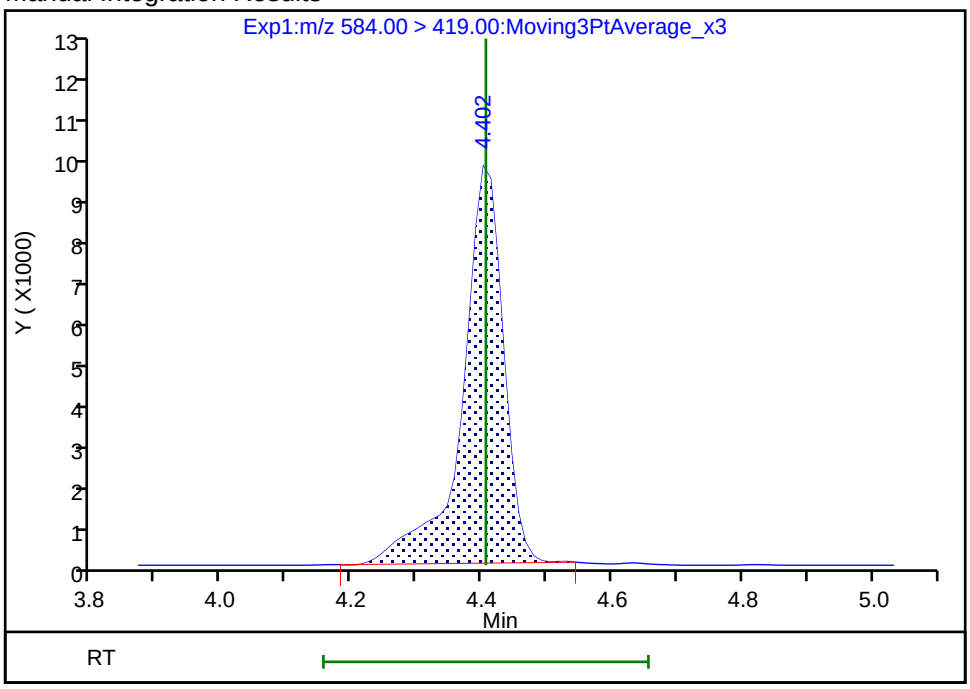
Processing Integration Results

RT: 4.40
Area: 42220
Amount: 0.954286
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 40925
Amount: 0.925015
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 16:13:33
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCVL 200-164129/5 Calibration Date: 02/19/2021 13:52

Instrument ID: LC812 Calib Start Date: 12/22/2020 12:48

GC Column: C-18 ID: 4.60(mm) Calib End Date: 12/22/2020 13:29

Lab File ID: PA210219A05.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.002	0.9804		0.122	0.125	-2.2	50.0
Perfluoropentanoic acid (PFPeA)	AveID	1.107	1.265		0.0571	0.0500	14.3	50.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.131	1.081		0.0422	0.0442	-4.4	50.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	1.834	1.659		0.0422	0.0467	-9.5	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.092	1.087		0.0497	0.0500	-0.5	50.0
Perfluoropentanesulfonic acid	AveID	1.312	1.305		0.0467	0.0469	-0.5	50.0
HFPO-DA	AveID	1.385	1.629		0.118	0.100	17.6	50.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.092	1.126		0.0516	0.0500	3.1	50.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.178	1.239		0.0478	0.0455	5.1	50.0
DONA	AveID	3.349	3.276		0.0461	0.0471	-2.2	50.0
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	AveID	1.112	0.9019		0.0961	0.119	-18.9	50.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.350	1.414		0.0498	0.0476	4.7	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.084	1.105		0.0510	0.0500	2.0	50.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.150	1.113		0.0449	0.0464	-3.2	50.0
Perfluorononanoic acid (PFNA)	AveID	1.107	1.026		0.0464	0.0500	-7.3	50.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	1.283	1.111		0.0404	0.0466	-13.4	50.0
Perfluorononanesulfonic acid	AveID	0.8581	0.8652		0.0484	0.0480	0.8	50.0
Perfluorodecanoic acid (PFDA)	AveID	1.031	1.047		0.0508	0.0500	1.6	50.0
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	AveID	0.6801	0.5419		0.0382	0.0479	-20.3	50.0
Perfluorooctanesulfonamide (FOSA)	AveID	1.002	0.9766		0.0487	0.0500	-2.5	50.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.8864	0.9074		0.128	0.125	2.4	50.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6841	0.6673		0.0470	0.0482	-2.4	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	1.020	1.065		0.0522	0.0500	4.4	50.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9257	0.8104		0.109	0.125	-12.5	50.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	1.331	0.9402		0.0333	0.0471	-29.4	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.100	0.9705		0.0441	0.0500	-11.8	50.0
10:2 FTS	AveID	0.3501	0.3572		0.0492	0.0482	2.0	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2517	0.2255		0.0434	0.0484	-10.4	50.0
Perfluorotridecanoic acid (PFTriA)	AveID	0.8926	0.8032		0.0450	0.0500	-10.0	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1855	0.1869		0.0504	0.0500	0.8	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCVL 200-164129/5 Calibration Date: 02/19/2021 13:52

Instrument ID: LC812 Calib Start Date: 12/22/2020 12:48

GC Column: C-18 ID: 4.60(mm) Calib End Date: 12/22/2020 13:29

Lab File ID: PA210219A05.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-hexadecanoic acid (PFHxDA)	L1ID		1.235		0.0511	0.0500	2.1	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8998	0.8880		0.0493	0.0500	-1.3	50.0
13C4 PFBA	Ave	1.343	1.380		1.28	1.25	2.8	50.0
13C5 PFPeA	Ave	0.9710	1.007		1.30	1.25	3.7	50.0
13C3 PFBS	Ave	1.278	1.317		1.20	1.16	3.1	50.0
M2-4:2 FTS	Ave	0.1066	0.1084		1.19	1.17	1.7	50.0
13C2 PFHxA	Ave	1.018	1.056		1.30	1.25	3.8	50.0
13C3 HFPO-DA	Ave	0.1792	0.1212		0.845	1.25	-32.4	50.0
13C4 PFHpA	Ave	0.9742	1.001		1.28	1.25	2.7	50.0
18O2 PFHxS	Ave	0.9511	0.9828		1.22	1.18	3.3	50.0
M2-6:2 FTS	Ave	0.1187	0.1266		1.27	1.19	6.7	50.0
13C4 PFOA	Ave	0.9896	1.005		1.27	1.25	1.6	50.0
13C4 PFOS	Ave	0.6528	0.7148		1.31	1.20	9.5	50.0
13C5 PFNA	Ave	0.8730	0.9258		1.33	1.25	6.0	50.0
13C2 PFDA	Ave	0.8346	0.8346		1.25	1.25	0.0	50.0
M2-8:2 FTS	Ave	0.1225	0.1343		1.31	1.20	9.6	50.0
13C8 FOSA	Ave	1.227	1.262		1.29	1.25	2.9	50.0
d3-NMeFOSAA	Ave	0.0605	0.0540		1.12	1.25	-10.8	50.0
13C2 PFUnA	Ave	0.6856	0.6497		1.19	1.25	-5.2	50.0
d5-NEtFOSAA	Ave	0.0585	0.0548		1.17	1.25	-6.4	50.0
13C2 PFDoA	Ave	0.7238	0.7094		1.23	1.25	-2.0	50.0
13C2 PFTeDA	Ave	0.5353	0.4829		1.13	1.25	-9.8	50.0
13C2 PFHxDA	Ave	0.5718	0.4470		0.977	1.25	-21.8	50.0

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A05.d
Lims ID: CCVL
Client ID:
Sample Type: CCVL
Inject. Date: 19-Feb-2021 13:52:49 ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCVL
Misc. Info.: 200-0044895-005 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812
Sublist: chrom-PFC_LC812*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 22-Feb-2021 11:44:30 Calib Date: 22-Dec-2020 13:29:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1656

First Level Reviewer: khanphomeea Date: 22-Feb-2021 09:10:09
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.082	2.082	0.0	0.598	1644277	1.28		103	14721	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.082	2.082	0.0	1.000	161211	0.1223		97.8	35.1	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.400	2.400	0.0	0.689	1199983	1.30		104	3932	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.400	2.400	0.0	1.000	60730	0.0571		114	3.3	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.426	2.426	0.0	0.697	1459488	1.20		103	278339	M
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.426	2.426	0.0	1.000	59999	0.0422	Target=2.21	95.6	147	
298.90 > 99.00	2.426	2.426	0.0	1.000	26193		2.29(1.11-3.32)		22.6	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.722	2.722	0.0	0.781	120651	1.19		102	162	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.722	2.722	0.0	1.000	8005	0.0422		90.5	254	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.758	2.758	0.0	0.792	1258371	1.30		104	3079	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.758	2.758	0.0	1.000	54689	0.0497	Target=12.83	99.5	16.8	
313.00 > 119.00	2.758	2.758	0.0	1.000	4601		11.89(6.42-19.25)		8.2	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.758	2.758	0.0	0.884	57340	0.0467	Target=3.35	99.5	217	
349.00 > 99.00	2.758	2.758	0.0	0.884	15200		3.77(1.67-5.02)		31.9	
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.868	2.868	0.0	1.004	18804	0.1176		118	4.3	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.855	2.868	-0.013	0.820	144313	0.8452		67.6	1181	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.121	3.122	-0.001	1.000	52791	0.0478	Target=4.15	105	267	M
399.00 > 99.00	3.121	3.122	-0.001	1.000	11904		4.43(2.08-6.23)		15.0	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.121	3.122	-0.001	0.896	1107499	1.22		103	1801	
D 9 13C4 PFHpA										
367.00 > 322.00	3.121	3.122	-0.001	0.896	1192016	1.28		103	2363	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.121	3.122	-0.001	1.000	53710	0.0516	Target=3.66	103	21.6	M
363.00 > 169.00	3.121	3.122	-0.001	1.000	14287		3.76(1.83-5.49)		29.7	M
77 DONA										
377.00 > 251.00	3.164	3.164	0.0	0.834	105121	0.0461	Target=2.43	97.8	222	
377.00 > 85.00	3.164	3.164	0.0	0.834	44296		2.37(1.22-3.65)		75.8	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.465	3.465	0.0	0.913	45843	0.0498	Target=5.95	105	321	
449.00 > 99.00	3.465	3.465	0.0	0.913	7588		6.04(2.98-8.93)		26.4	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.465	3.474	-0.009	0.995	143317	1.27		107	616	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.465	3.474	-0.009	1.000	12898	0.0961		81.1	181	M
D 14 13C4 PFOA										
417.00 > 372.00	3.483	3.483	0.0	1.000	1197081	1.27		102	2199	
* 62 13C2 PFOA										
415.00 > 370.00	3.483	3.483	0.0		1191171	1.25			2648	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.483	3.483	0.0	1.000	52917	0.0510	Target=2.58	102	16.9	
413.00 > 169.00	3.474	3.483	-0.009	0.997	21403		2.47(1.29-3.87)		60.4	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.794	3.794	0.0	1.000	35192	0.0449	Target=5.65	96.8	50.6	M
499.00 > 99.00	3.794	3.794	0.0	1.000	6444		5.46(2.82-8.47)		17.8	M
D 18 13C4 PFOS										
503.00 > 80.00	3.794	3.794	0.0	1.089	814042	1.31		110	2772	
D 19 13C5 PFNA										
468.00 > 423.00	3.804	3.814	-0.010	1.092	1102793	1.33		106	3566	
20 Perfluorononanoic acid										
463.00 > 419.00	3.814	3.814	0.0	1.003	45266	0.0464	Target=7.44	92.7	13.1	
463.00 > 169.00	3.804	3.814	-0.010	1.000	7148		6.33(3.72-11.16)		103	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.955	3.955	0.0	1.042	35279	0.0404		86.6	353	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.071	4.071	0.0	1.073	28291	0.0484	Target=2.54	101	325	
549.00 > 99.00	4.071	4.071	0.0	1.073	9082		3.12(1.27-3.81)		34.6	
D 23 13C2 PFDA										
515.00 > 470.00	4.104	4.104	0.0	1.178	994172	1.25		100	4939	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.104	4.104	0.0	1.000	41623	0.0508	Target=9.29	102	41.8	
513.00 > 169.00	4.104	4.104	0.0	1.000	5138		8.10(4.64-13.93)		38.2	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.115	4.115	0.0	1.181	153206	1.31		110	677	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.115	4.115	0.0	1.000	3321	0.0382		79.7	79.2	
D 21 13C8 FOSA										M
506.00 > 78.00	4.215	4.215	0.0	1.210	1503455	1.29		103	2025	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.215	4.215	0.0	1.000	58731	0.0487		97.5	437	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.246	4.246	0.0	1.219	64357	1.12		89.2	726	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.246	4.246	0.0	1.000	5840	0.1280		102	26.5	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.336	4.336	0.0	1.143	21911	0.0470	Target=2.80	97.6	309	
599.00 > 99.00	4.336	4.336	0.0	1.143	8365		2.62(1.40-4.19)		49.2	
D 30 13C2 PFUnA										M
565.00 > 520.00	4.358	4.358	0.0	1.251	773914	1.18		94.8	3540	M
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.358	4.358	0.0	1.000	32959	0.0522	Target=8.12	104	24.1	M
563.00 > 169.00	4.358	4.358	0.0	1.000	4046		8.15(4.06-12.18)		54.0	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.369	4.369	0.0	1.254	65264	1.17		93.6	540	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.369	4.380	-0.011	1.000	5289	0.1094		87.5	138	M
66 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.445	4.456	-0.011	1.172	30166	0.0333		70.6	742	
D 36 13C2 PFDoA										
615.00 > 570.00	4.580	4.591	-0.011	1.315	845005	1.23		98.0	3051	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.591	4.591	0.0	1.002	32803	0.0441	Target=6.91	88.2	10.4	
613.00 > 169.00	4.591	4.591	0.0	1.002	5991		5.48(3.45-10.36)		105	M
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.612	4.601	0.011	1.121	2203	0.0492		102	87.3	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.748	4.748	0.0	1.251	7434	0.0434	Target=0.51	89.6	138	
699.00 > 99.00	4.748	4.748	0.0	1.251	15672		0.47(0.26-0.77)		82.0	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.784	4.784	0.0	1.044	27149	0.0450	Target=4.39	90.0	11.7	
663.00 > 169.00	4.784	4.784	0.0	1.044	6970		3.90(2.20-6.59)		148	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.966	4.966	0.0	1.426	575261	1.13		90.2	3272	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.966	4.966	0.0	1.000	4300	0.0504	Target=1.06	101	106	
713.00 > 219.00	4.966	4.966	0.0	1.000	3756		1.14(0.53-1.59)		125	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.293	5.293	0.0	1.520	532421	0.9771		78.2	2574	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.293	5.293	0.0	1.000	26307	0.0511	Target=3.84	102	11.6	
813.00 > 169.00	5.293	5.293	0.0	1.000	7080		3.72(1.92-5.76)		243	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.583	5.592	-0.009	1.055	18911	0.0493	Target=3.92	98.7	25.2	
913.00 > 169.00	5.583	5.592	-0.009	1.055	5220		3.62(1.96-5.88)		162	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCLOQV_00013 Amount Added: 100.00 Units: uL

Report Date: 22-Feb-2021 11:44:30 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A05.d

Injection Date: 19-Feb-2021 13:52:49 Instrument ID: LC812

Lims ID: CCVL

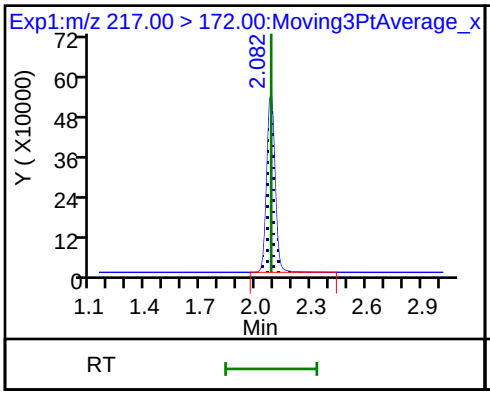
Client ID:

Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5

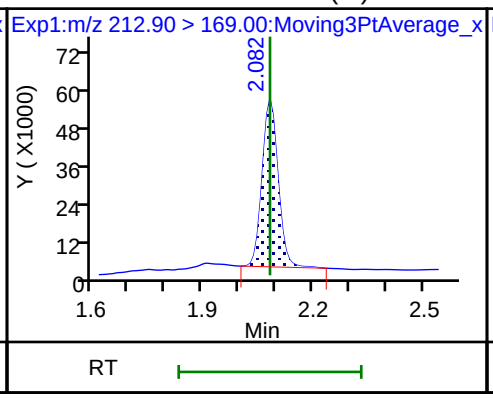
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

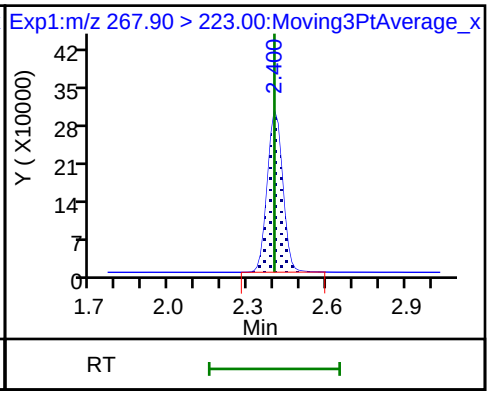
D 1 13C4 PFBA



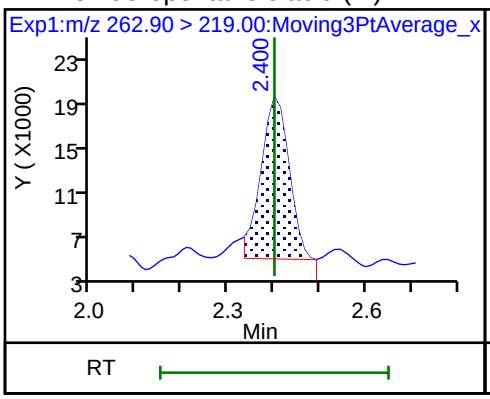
2 Perfluorobutanoic acid (M)



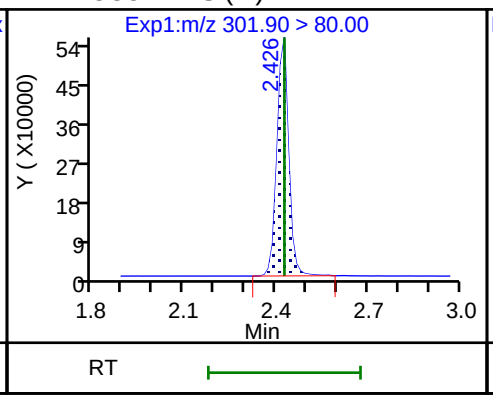
D 3 13C5 PFPeA



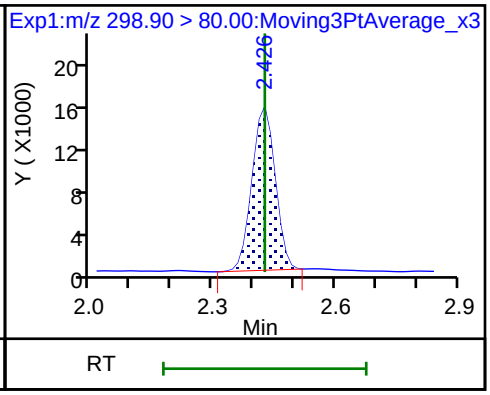
4 Perfluoropentanoic acid (M)



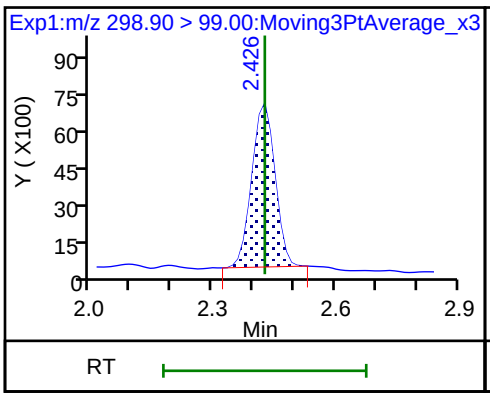
D 47 13C3 PFBS (M)



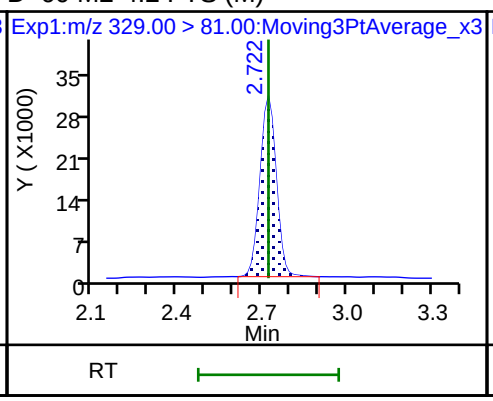
5 Perfluorobutanesulfonic acid



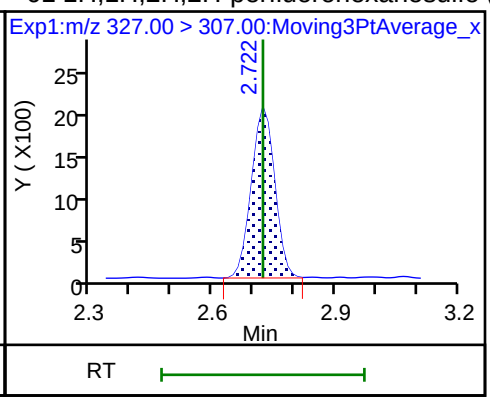
5 Perfluorobutanesulfonic acid



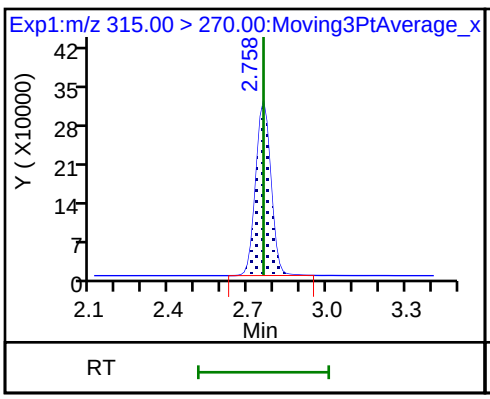
D 60 M2-4:2 FTS (M)



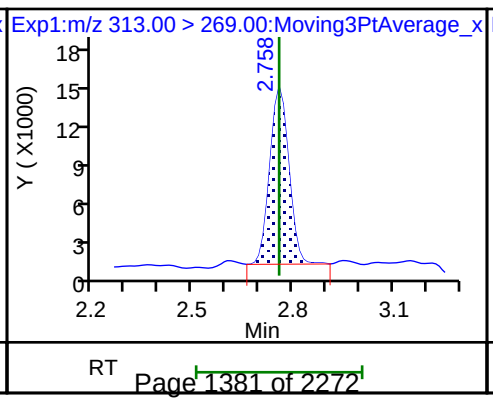
61 1H,1H,2H,2H-perfluorohexanesulfo (M)



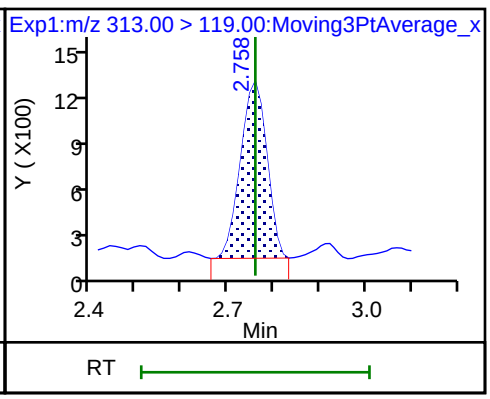
D 7 13C2 PFHxA



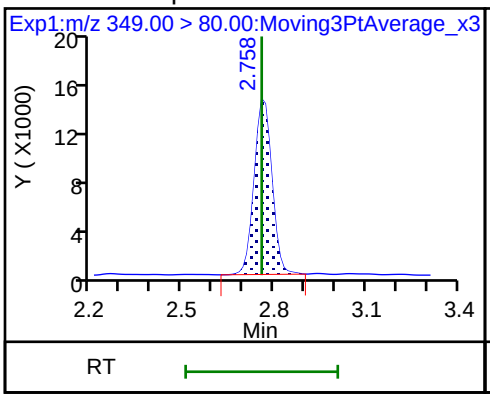
6 Perfluorohexanoic acid



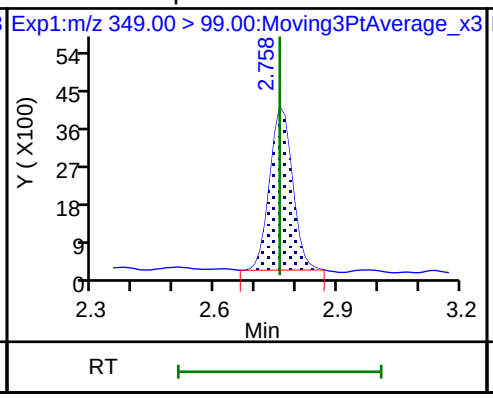
6 Perfluorohexanoic acid



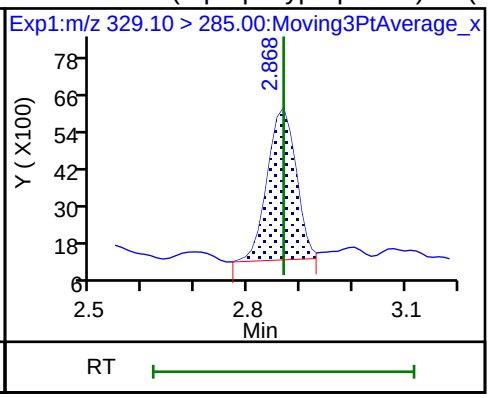
70 Perfluoropentanesulfonic acid



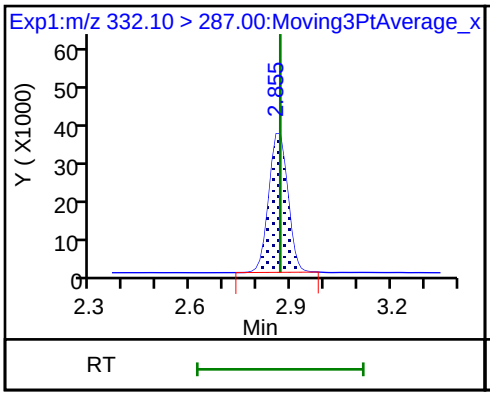
70 Perfluoropentanesulfonic acid



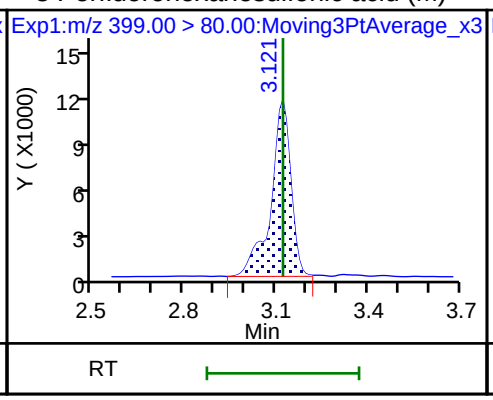
67 Perfluoro(2-propoxypropanoic) ac (M)



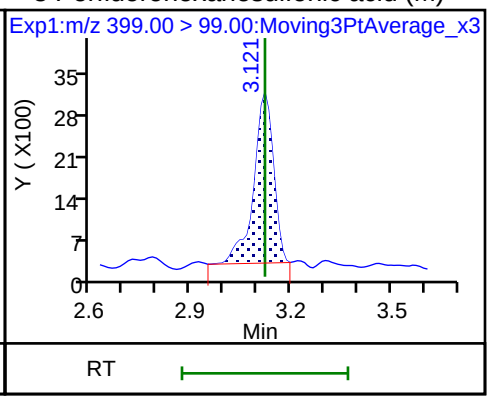
D 64 13C3 HFPO-DA



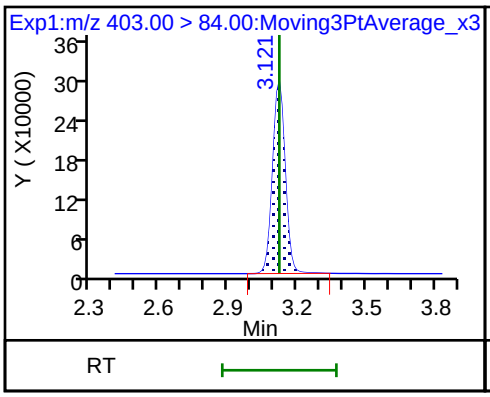
8 Perfluorohexanesulfonic acid (M)



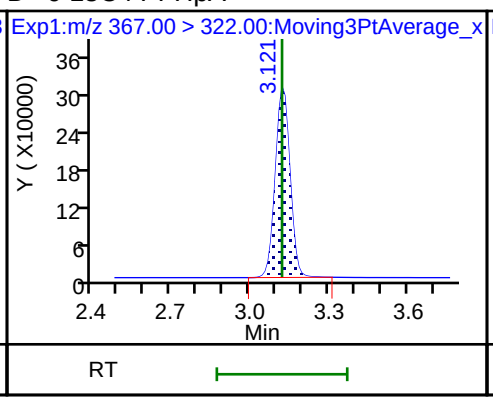
8 Perfluorohexanesulfonic acid (M)



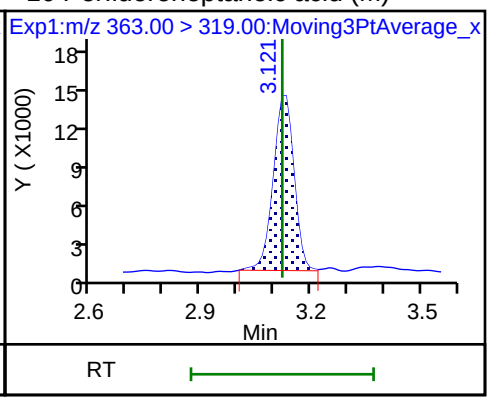
D 11 18O2 PFHxS



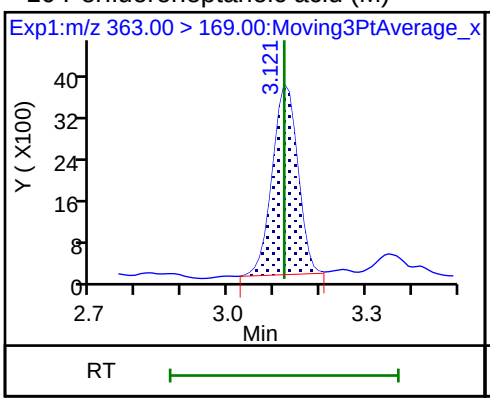
D 9 13C4 PFHpA



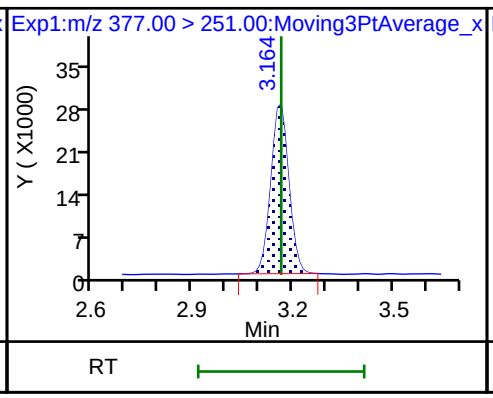
10 Perfluoroheptanoic acid (M)



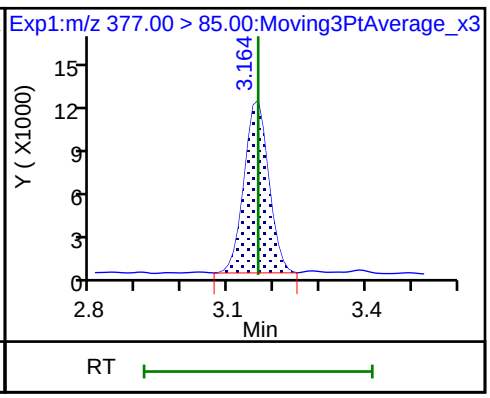
10 Perfluoroheptanoic acid (M)



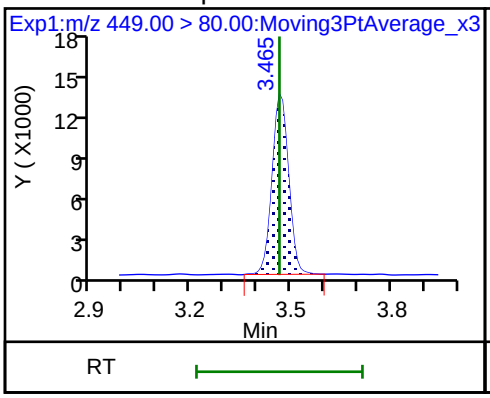
77 DONA



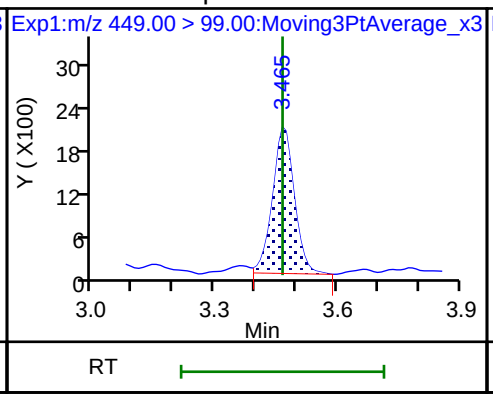
77 DONA



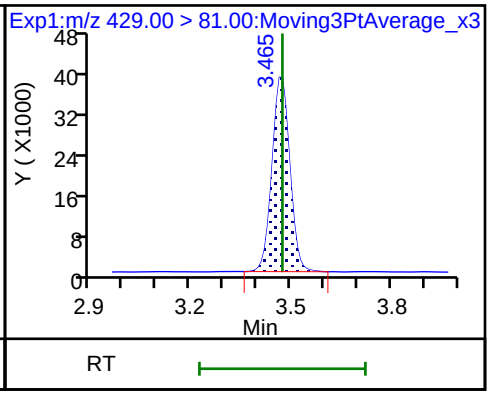
16 Perfluoroheptanesulfonic acid



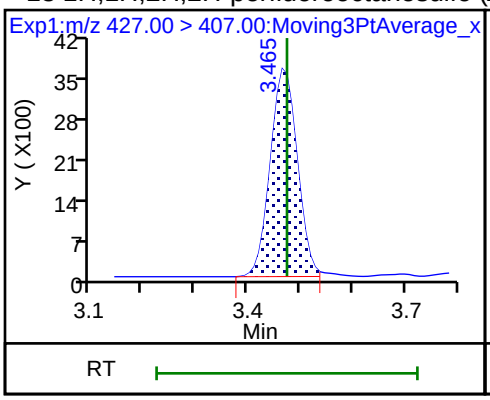
16 Perfluoroheptanesulfonic acid



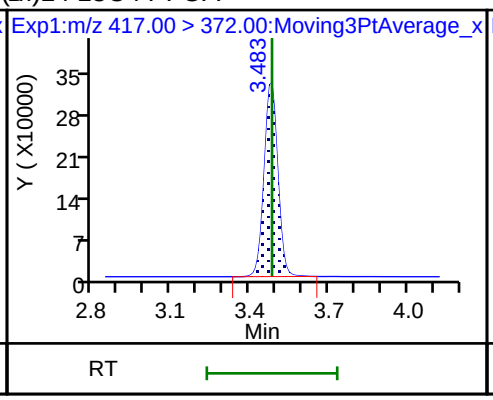
D 12 M2-6:2 FTS



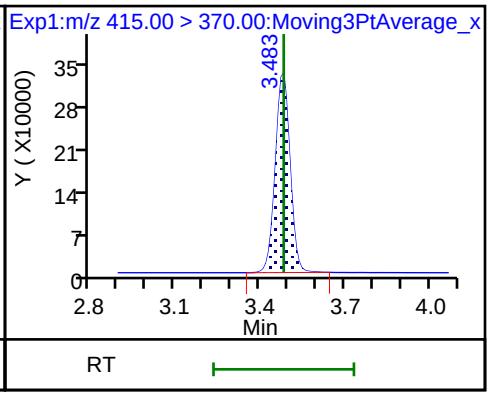
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



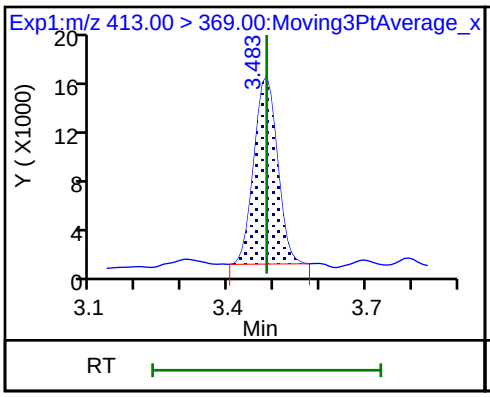
D 14 13C4 PFOA



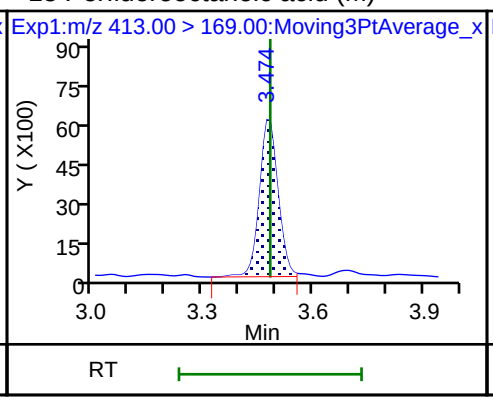
* 62 13C2 PFOA



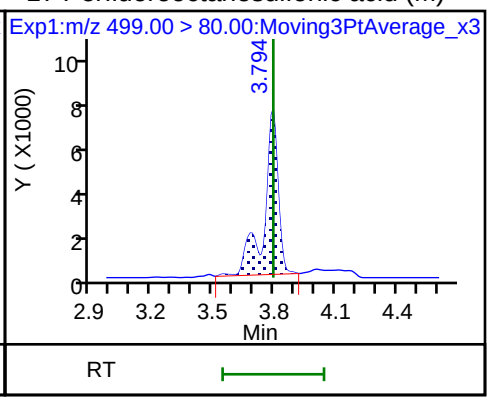
15 Perfluorooctanoic acid



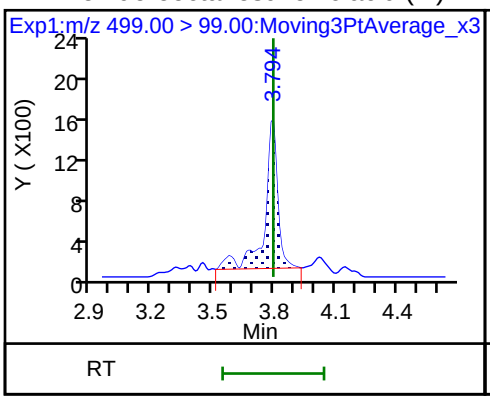
15 Perfluorooctanoic acid (M)



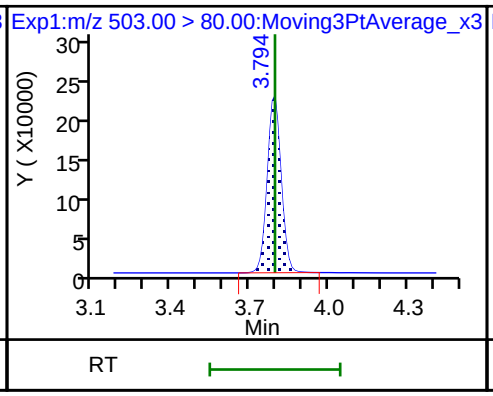
17 Perfluorooctanesulfonic acid (M)



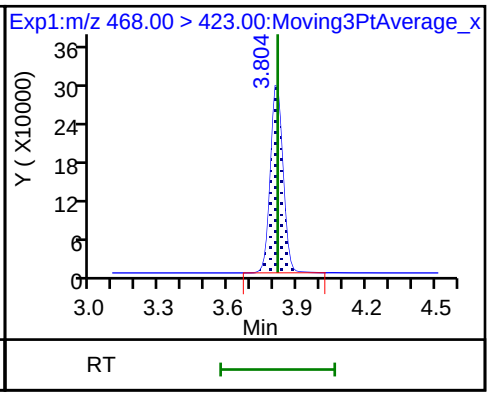
17 Perfluorooctanesulfonic acid (M)



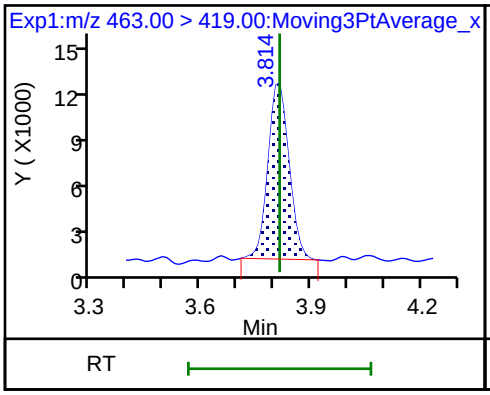
D 18 13C4 PFOS



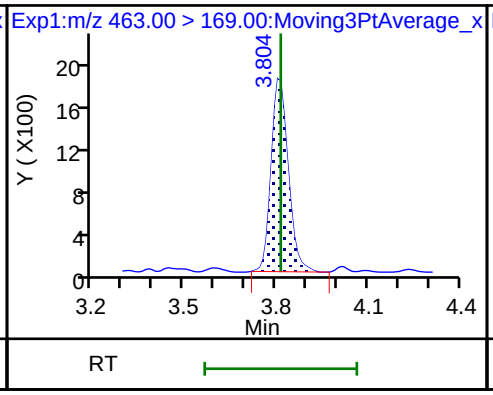
D 19 13C5 PFNA



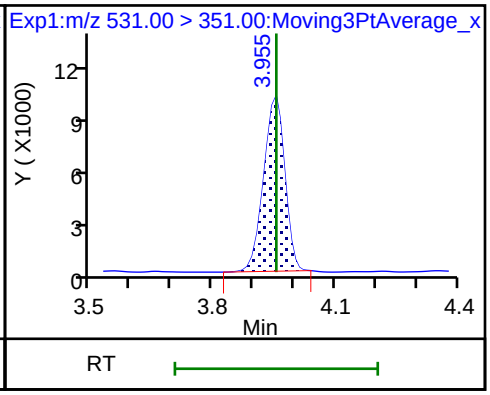
20 Perfluorononanoic acid



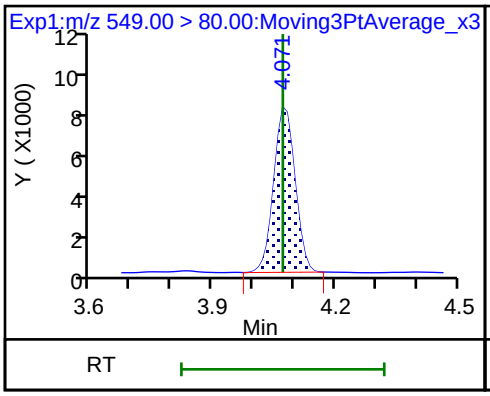
20 Perfluorononanoic acid



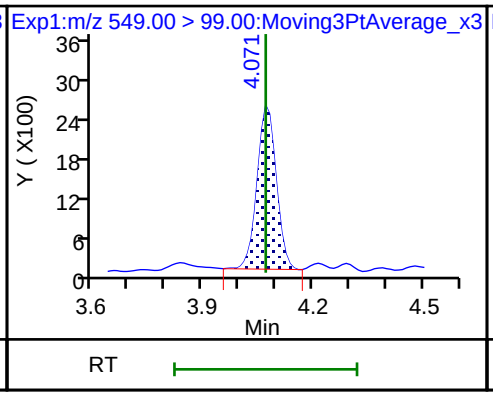
69 9-Chlorohexadecafluoro-3-oxanona



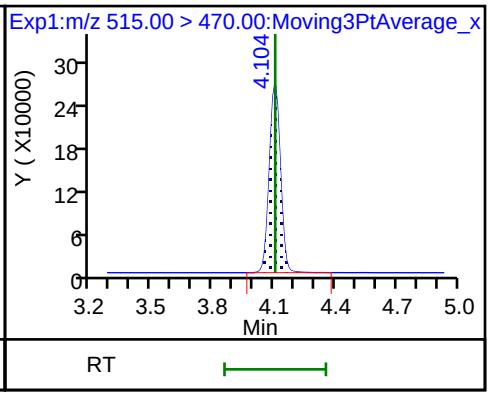
68 Perfluorononanesulfonic acid



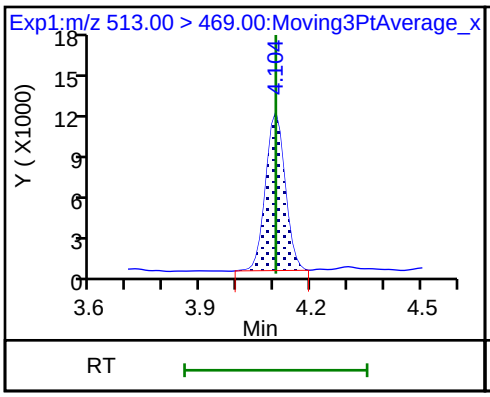
68 Perfluorononanesulfonic acid



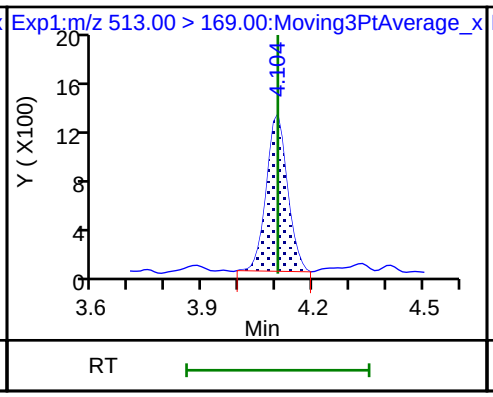
D 23 13C2 PFDA



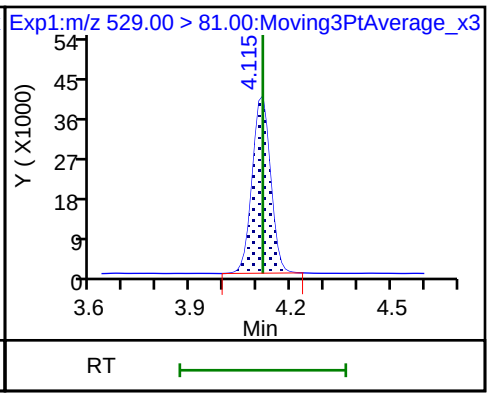
24 Perfluorodecanoic acid



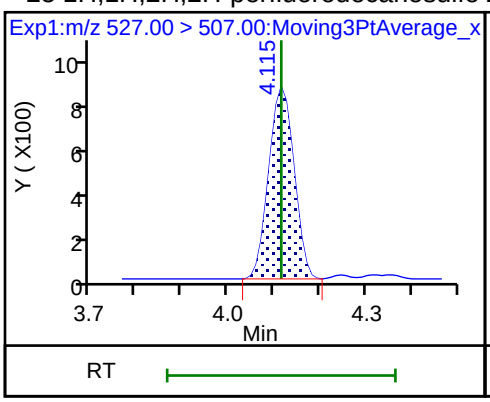
24 Perfluorodecanoic acid



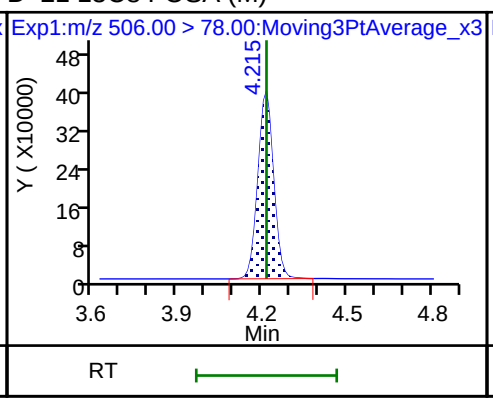
D 26 M2-8:2 FTS



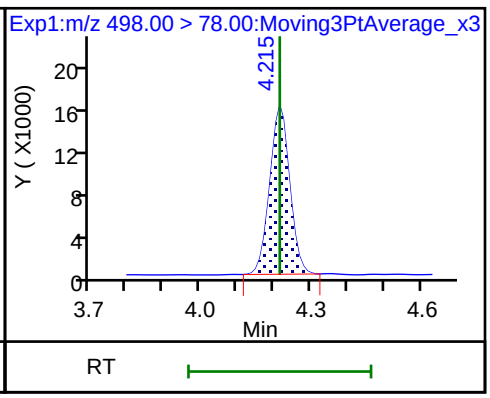
25 1H,1H,2H,2H-perfluorodecanesulfo



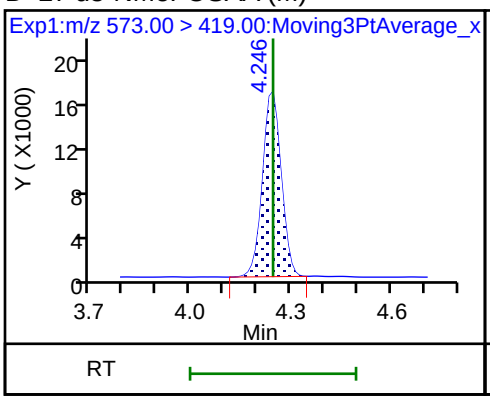
D 21 13C8 FOSA (M)



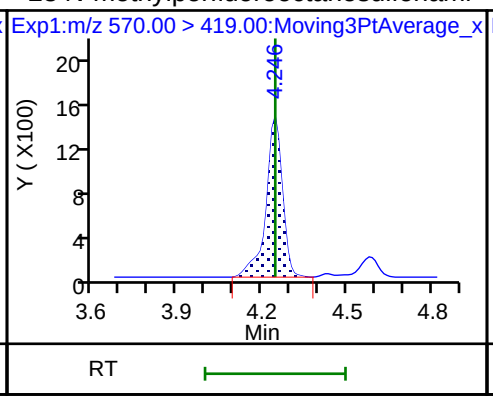
22 Perfluorooctanesulfonamide



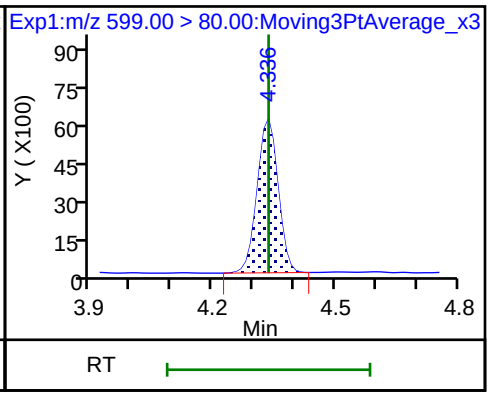
D 27 d3-NMeFOSAA (M)



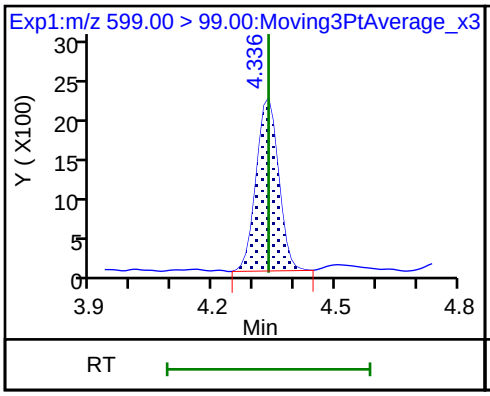
28 N-methylperfluorooctanesulfonami



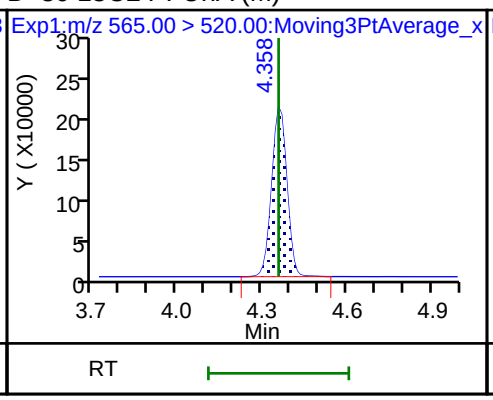
29 Perfluorodecanesulfonic acid



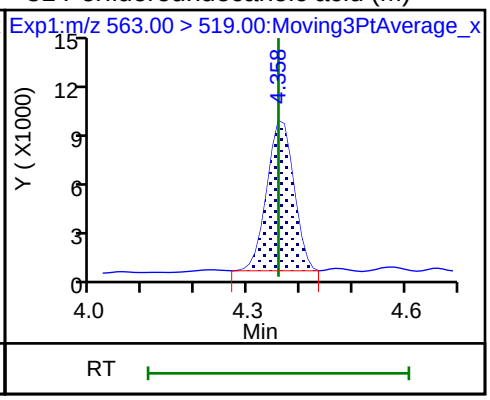
29 Perfluorodecanesulfonic acid



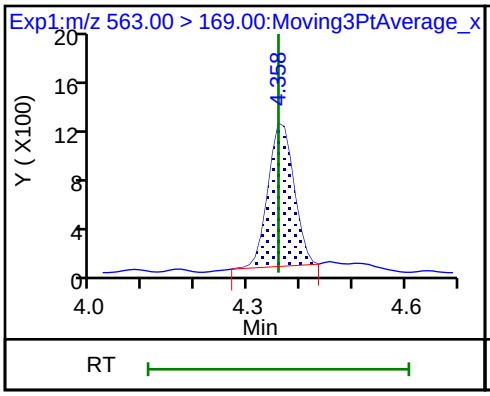
D 30 13C2 PFUnA (M)



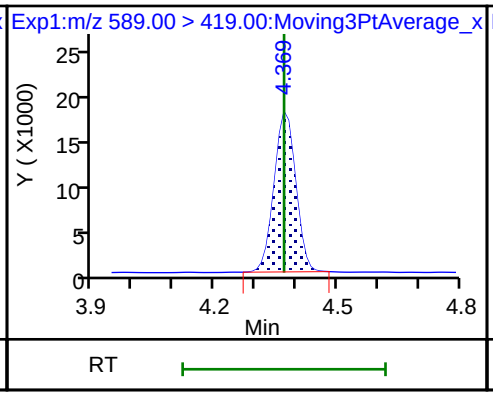
31 Perfluoroundecanoic acid (M)



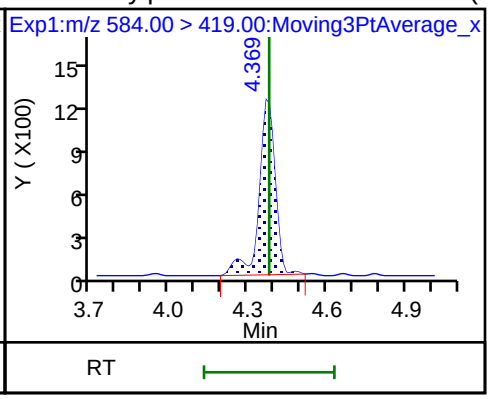
31 Perfluoroundecanoic acid



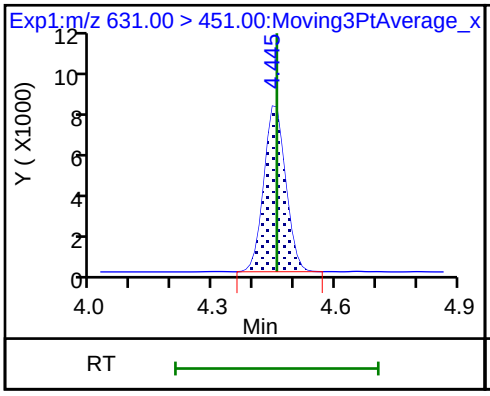
D 32 d5-NEtFOSAA



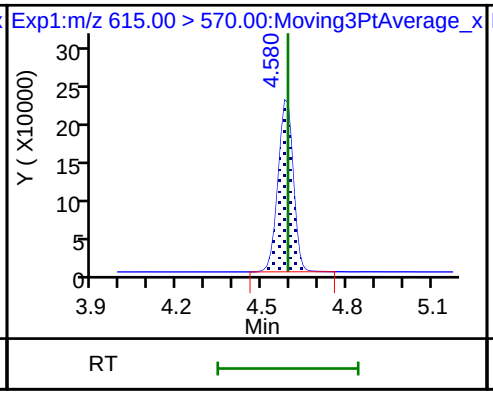
33 N-ethylperfluorooctanesulfonamid (M)



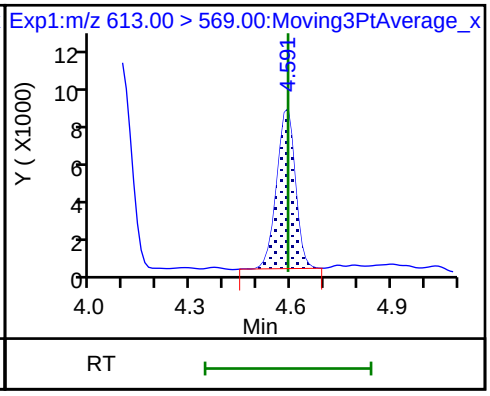
66 11-Chloroeicosafluoro-3-oxaundec



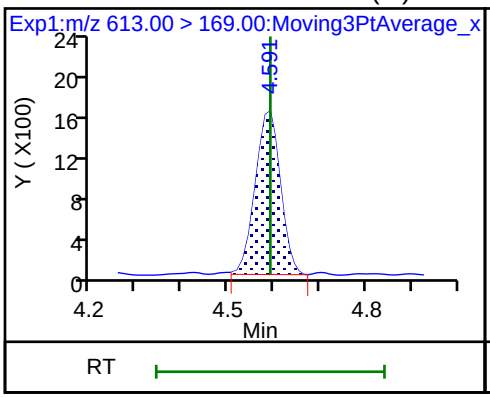
D 36 13C2 PFDoA



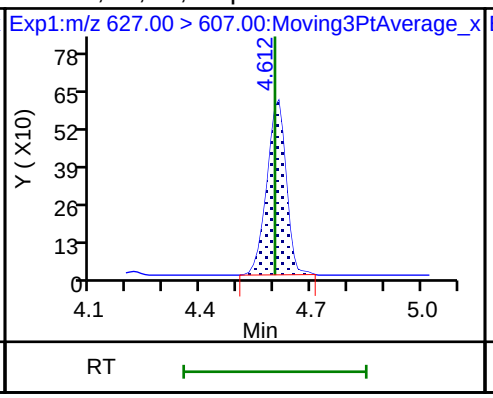
37 Perfluorododecanoic acid



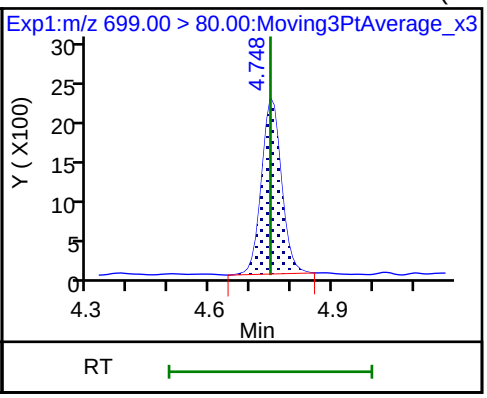
37 Perfluorododecanoic acid (M)



74 1H,1H,2H,2H-perfluorododecanesul



75 Perfluorododecanesulfonic acid (



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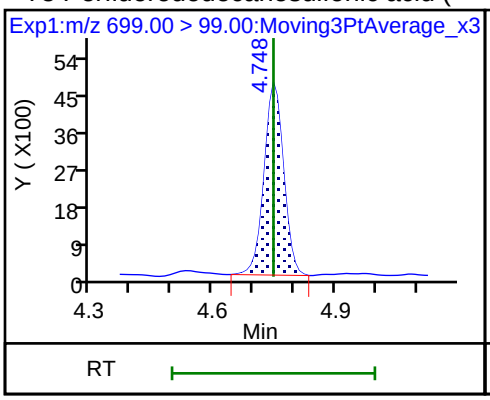
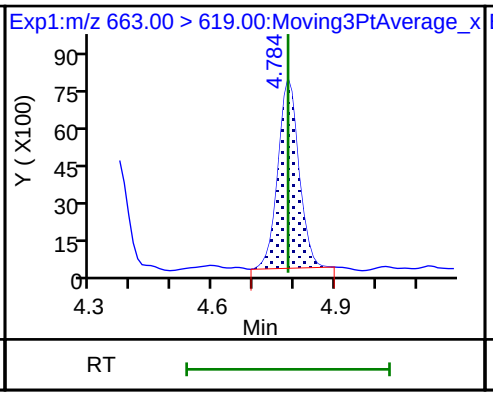
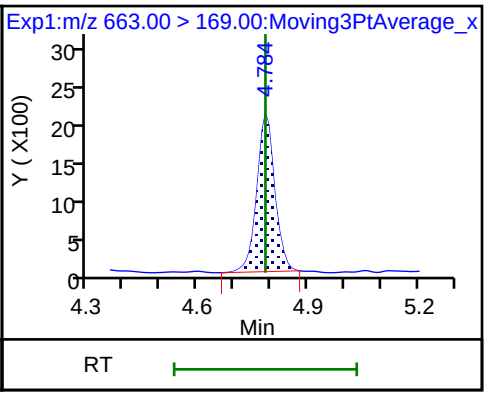


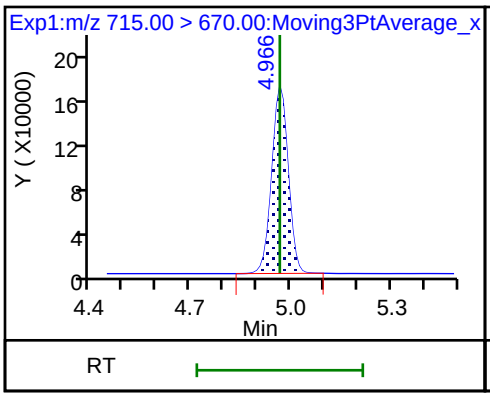
41 Perfluorotridecanoic acid



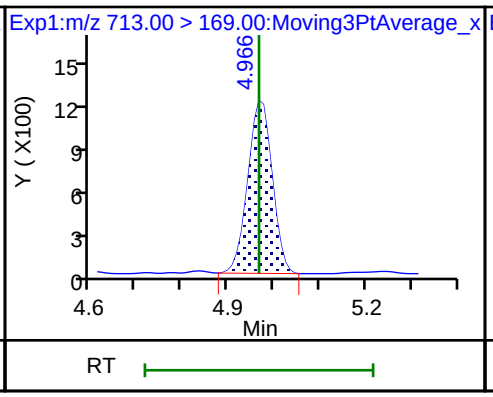
41 Perfluorotridecanoic acid



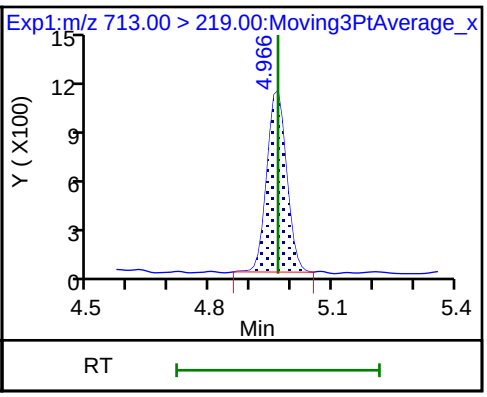
D 43 13C2 PFTeDA



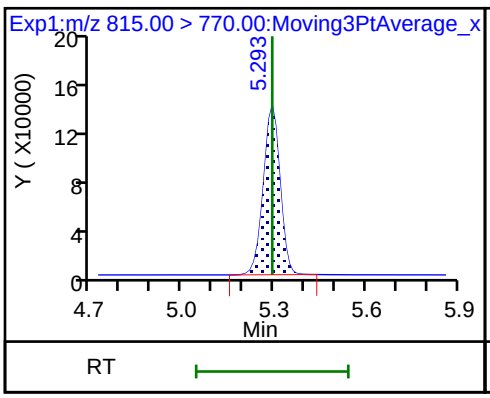
42 Perfluorotetradecanoic acid



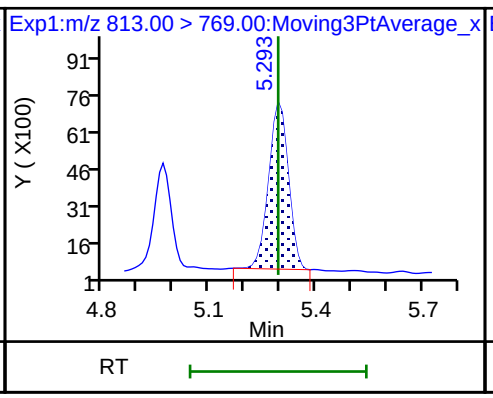
42 Perfluorotetradecanoic acid



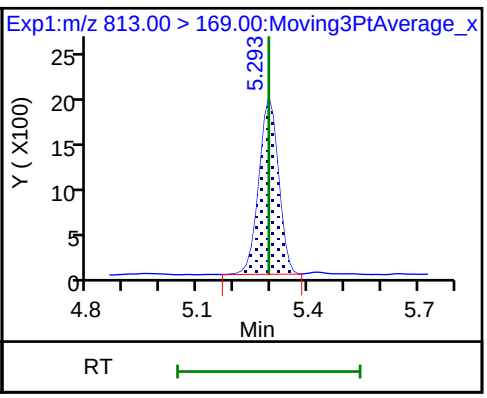
D 44 13C2 PFHxDA



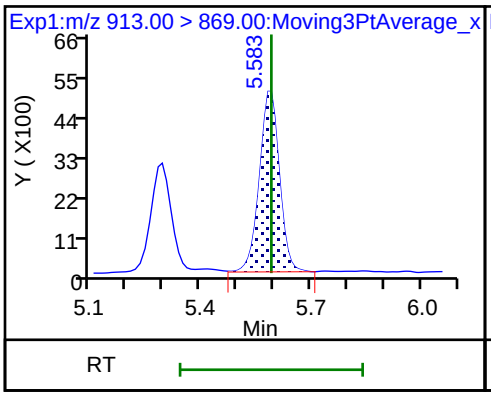
45 Perfluorohexadecanoic acid



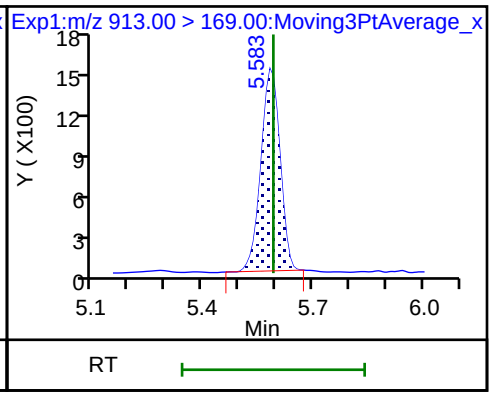
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

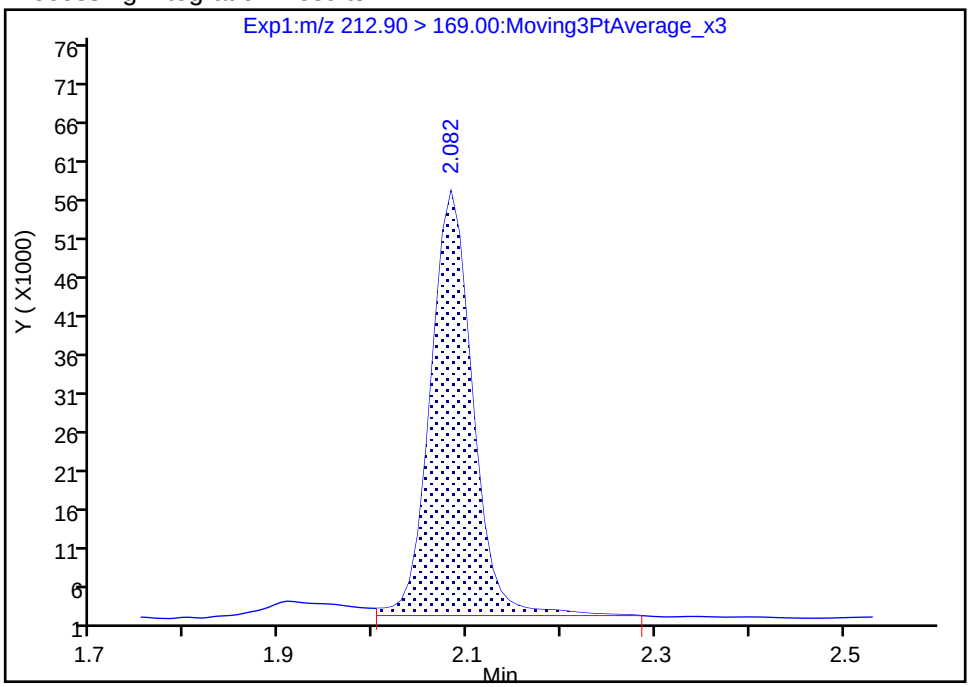
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A05.d				
Injection Date:	19-Feb-2021 13:52:49	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

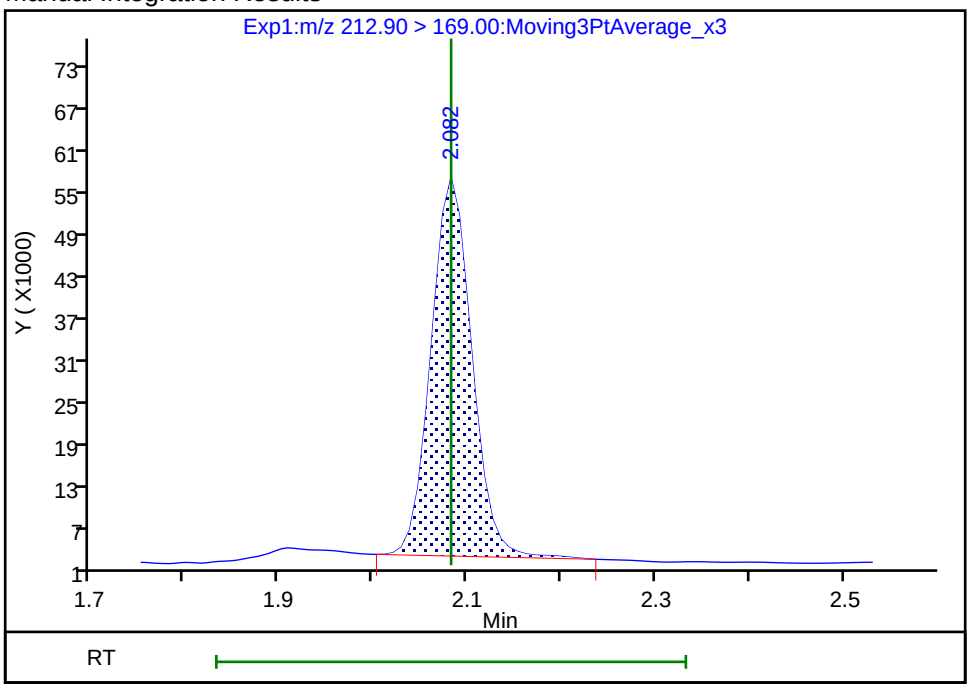
Processing Integration Results

RT: 2.08
Area: 169653
Amount: 0.128714
Amount Units: ng/ml



Manual Integration Results

RT: 2.08
Area: 161211
Amount: 0.122309
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 09:04:18

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

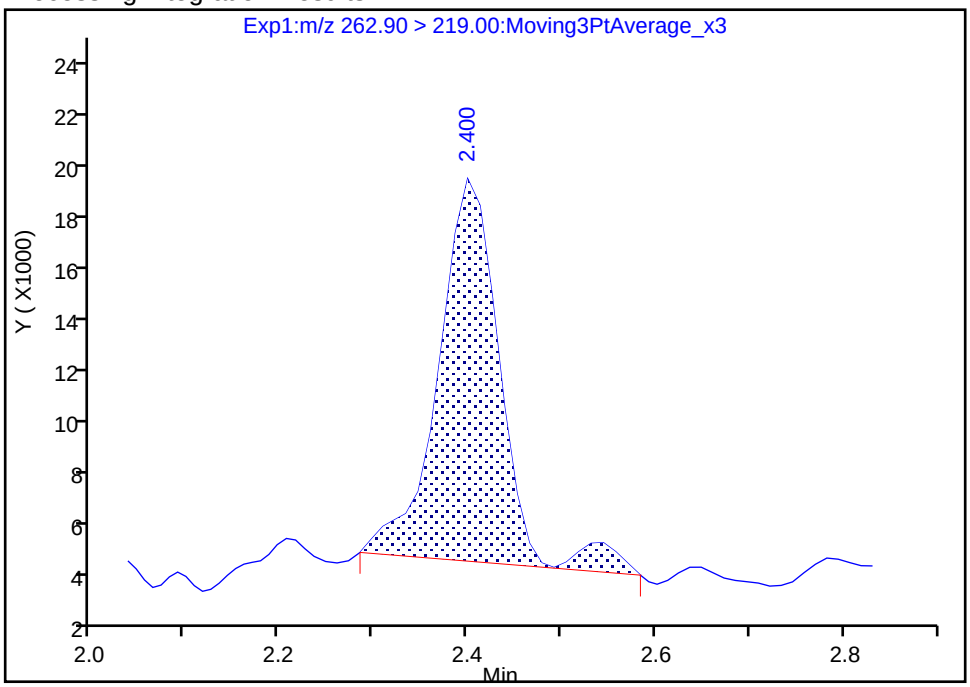
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A05.d				
Injection Date:	19-Feb-2021 13:52:49	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

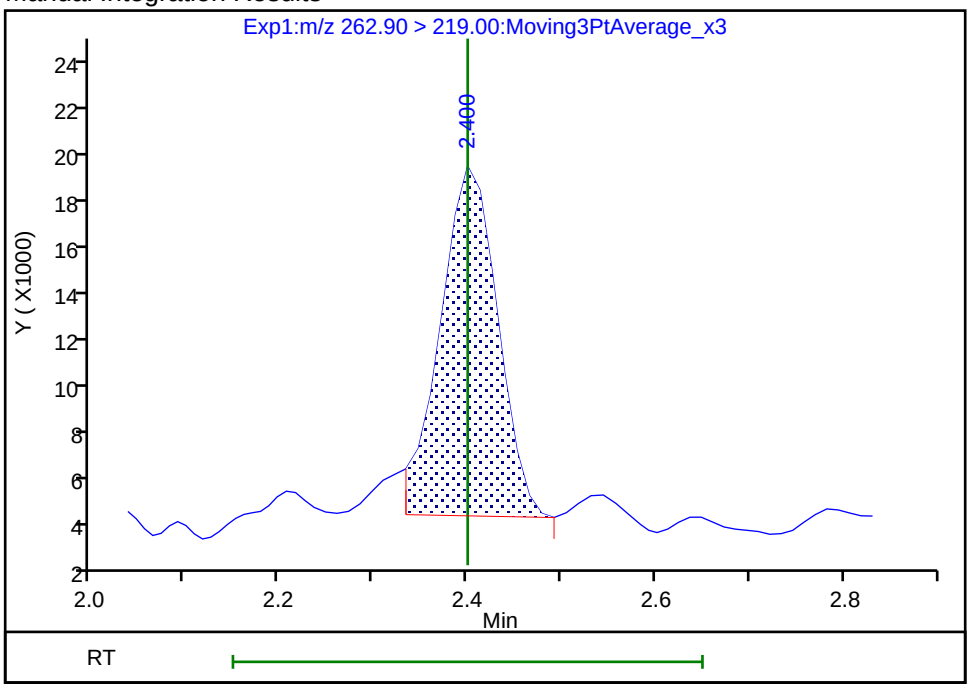
Processing Integration Results

RT: 2.40
Area: 65452
Amount: 0.061574
Amount Units: ng/ml



Manual Integration Results

RT: 2.40
Area: 60730
Amount: 0.057132
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 09:04:39

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

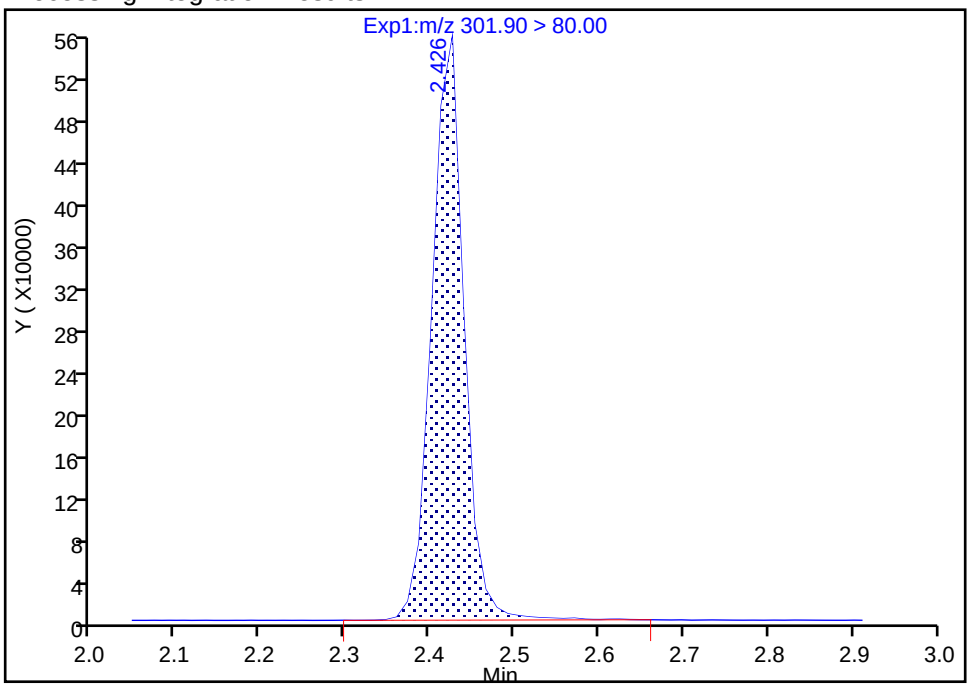
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A05.d				
Injection Date:	19-Feb-2021 13:52:49	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

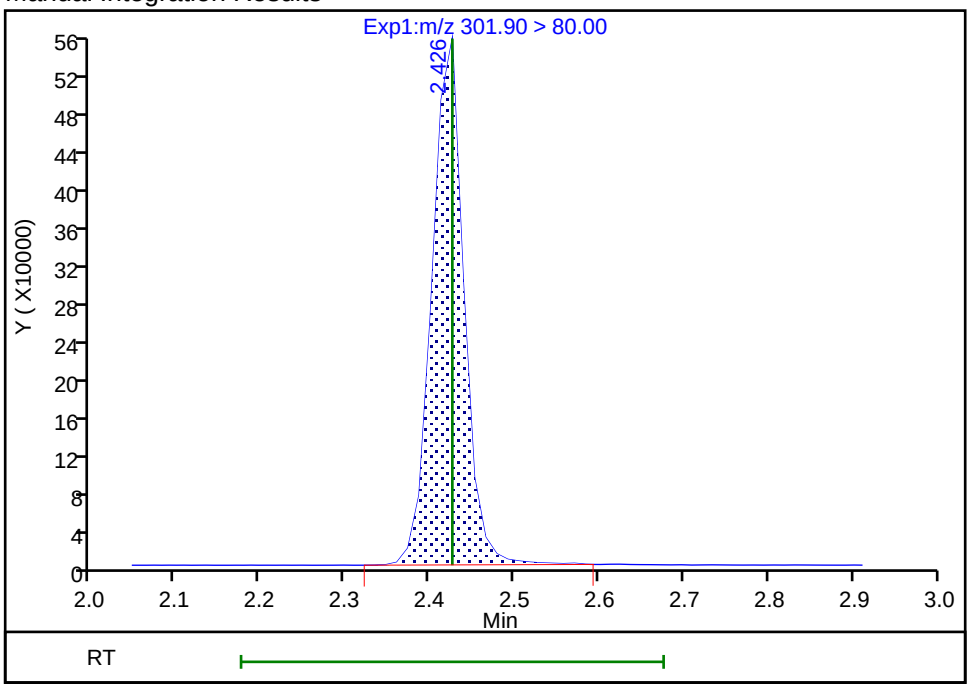
Processing Integration Results

RT: 2.43
Area: 1463724
Amount: 1.202098
Amount Units: ng/ml



Manual Integration Results

RT: 2.43
Area: 1459488
Amount: 1.198619
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 09:03:05

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

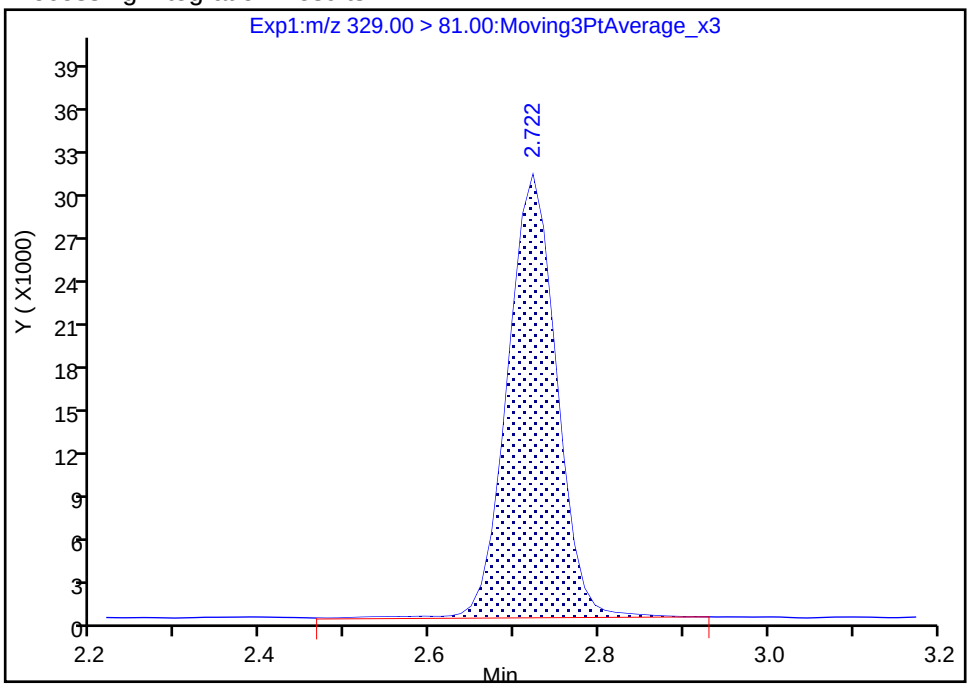
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A05.d				
Injection Date:	19-Feb-2021 13:52:49	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

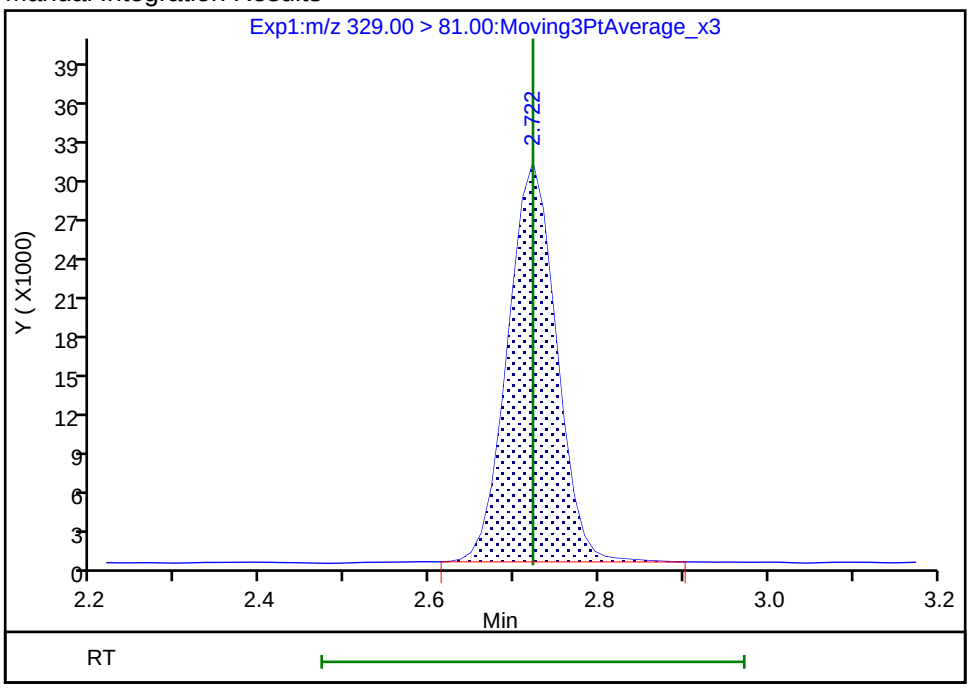
Processing Integration Results

RT: 2.72
Area: 122693
Amount: 1.207714
Amount Units: ng/ml



Manual Integration Results

RT: 2.72
Area: 120651
Amount: 1.187614
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 09:03:11

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

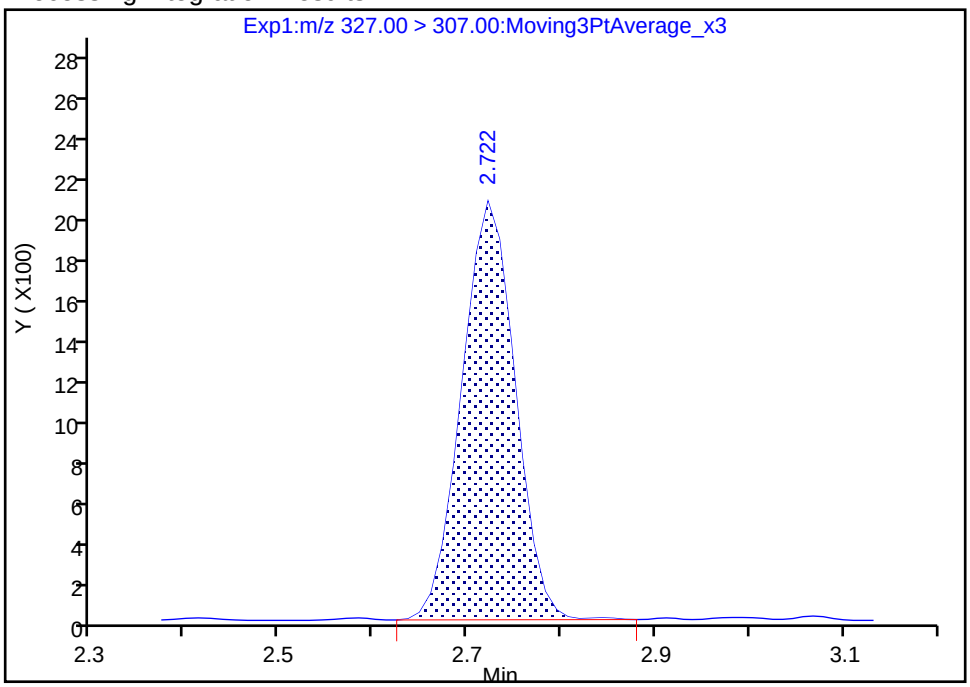
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A05.d				
Injection Date:	19-Feb-2021 13:52:49	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

61 1H,1H,2H,2H-perfluorohexanesulfo, CAS: 757124-72-4

Signal: 1

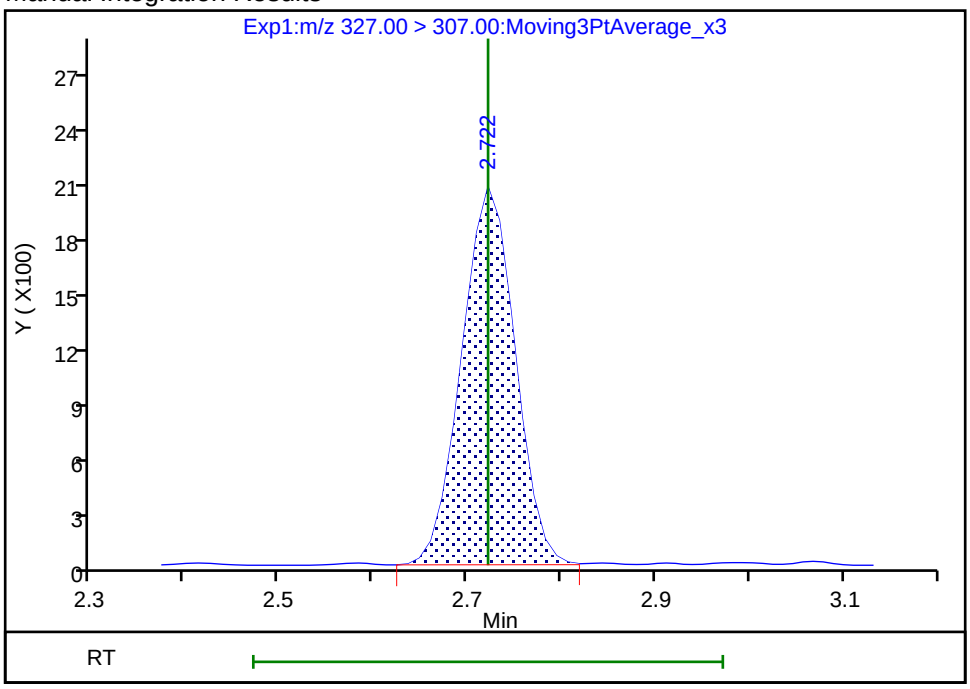
Processing Integration Results

RT: 2.72
Area: 8019
Amount: 0.042316
Amount Units: ng/ml



Manual Integration Results

RT: 2.72
Area: 8005
Amount: 0.042243
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 09:05:20

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

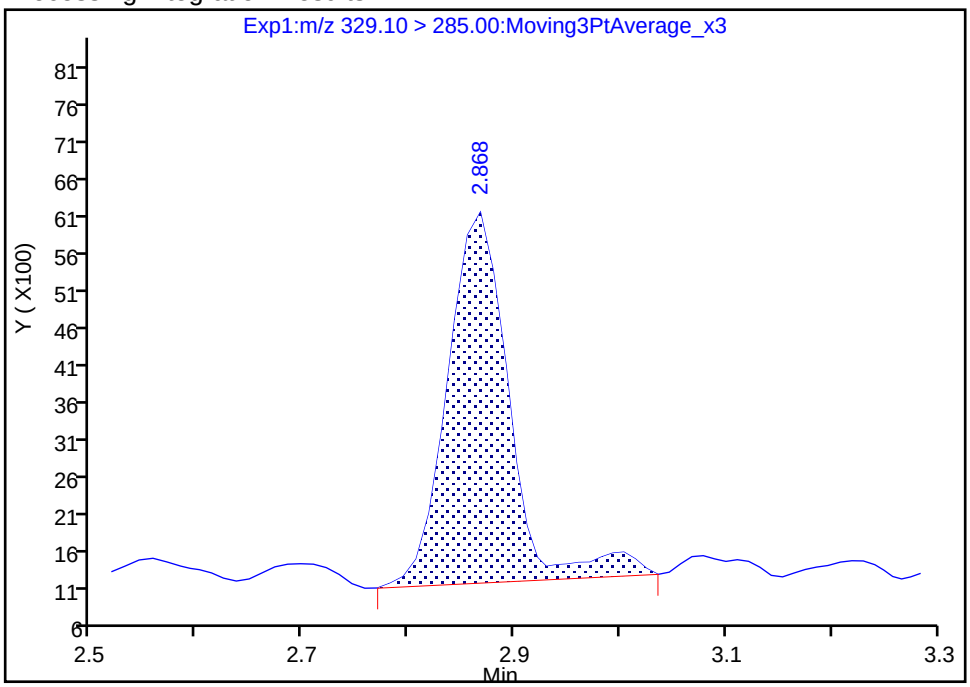
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A05.d				
Injection Date:	19-Feb-2021 13:52:49	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

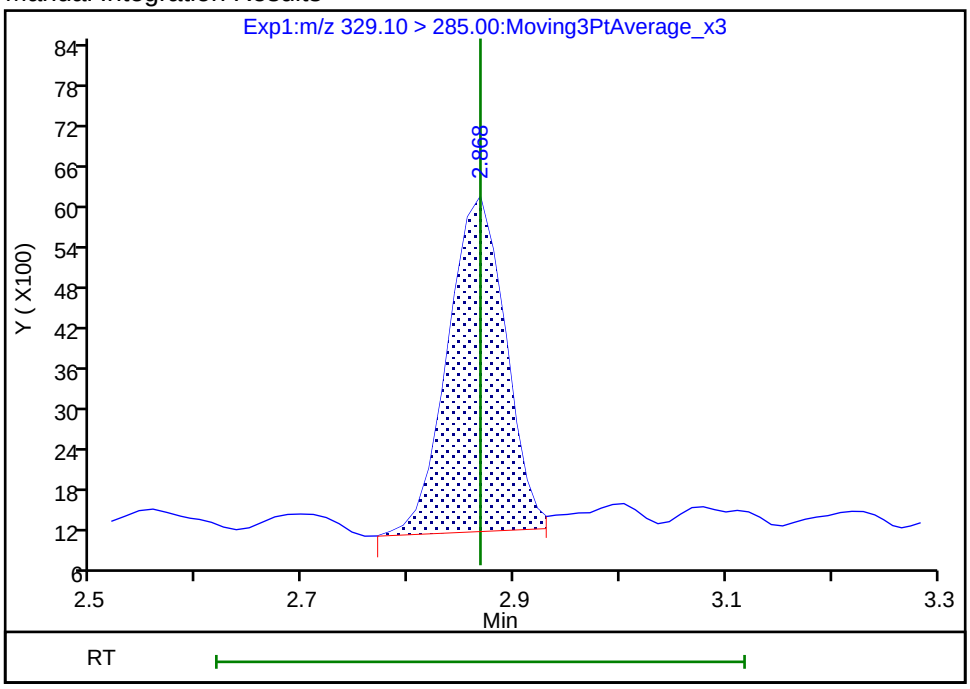
Processing Integration Results

RT: 2.87
Area: 20146
Amount: 0.125957
Amount Units: ng/ml



Manual Integration Results

RT: 2.87
Area: 18804
Amount: 0.117566
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 09:05:39

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

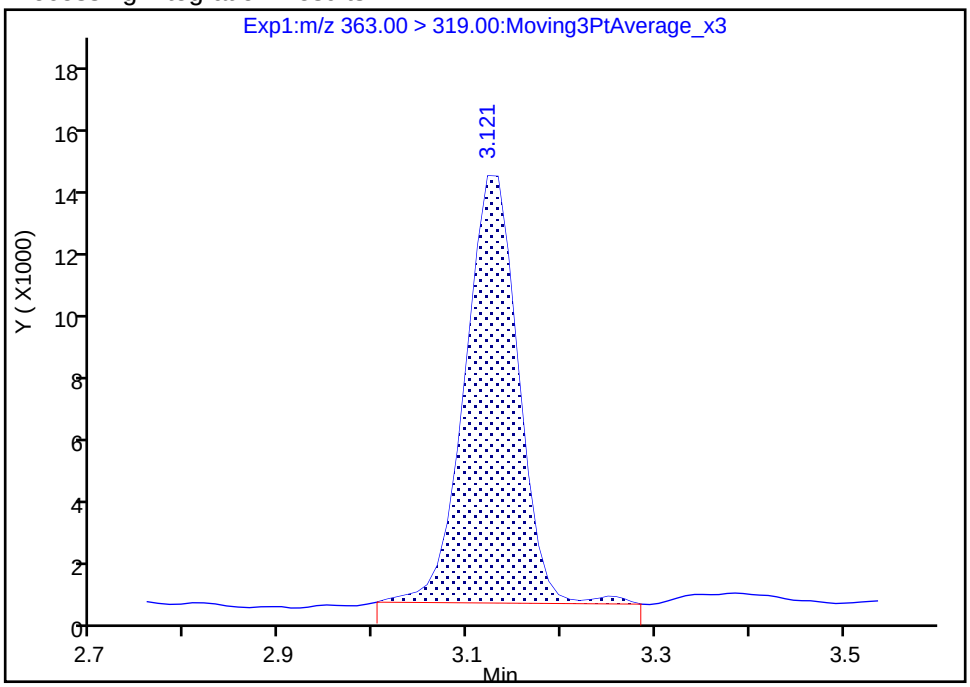
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A05.d				
Injection Date:	19-Feb-2021 13:52:49	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

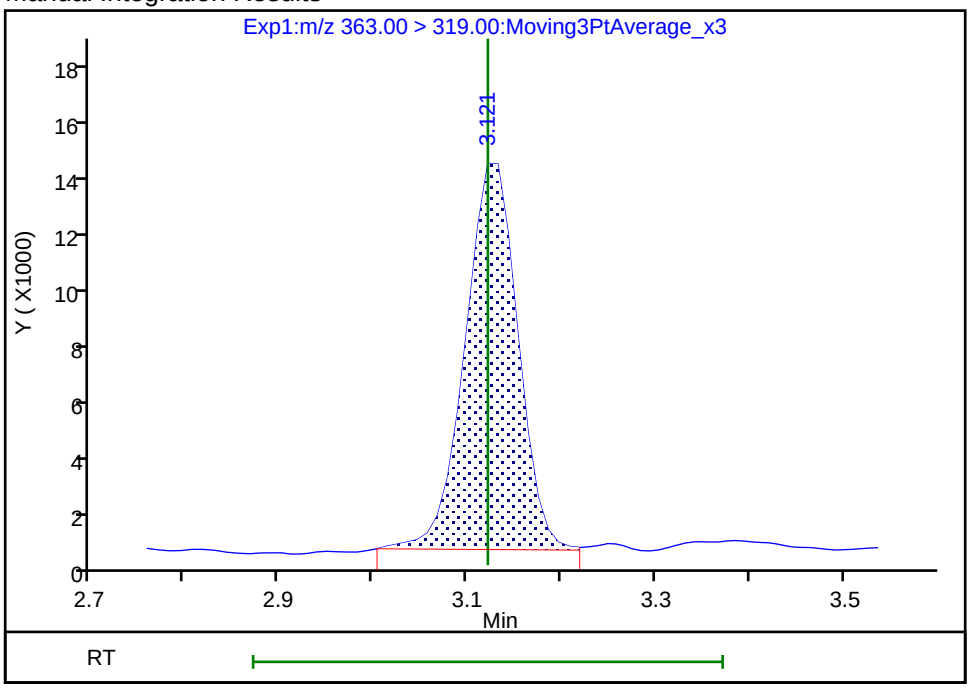
Processing Integration Results

RT: 3.12
Area: 54292
Amount: 0.052126
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 53710
Amount: 0.051567
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 09:06:37
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

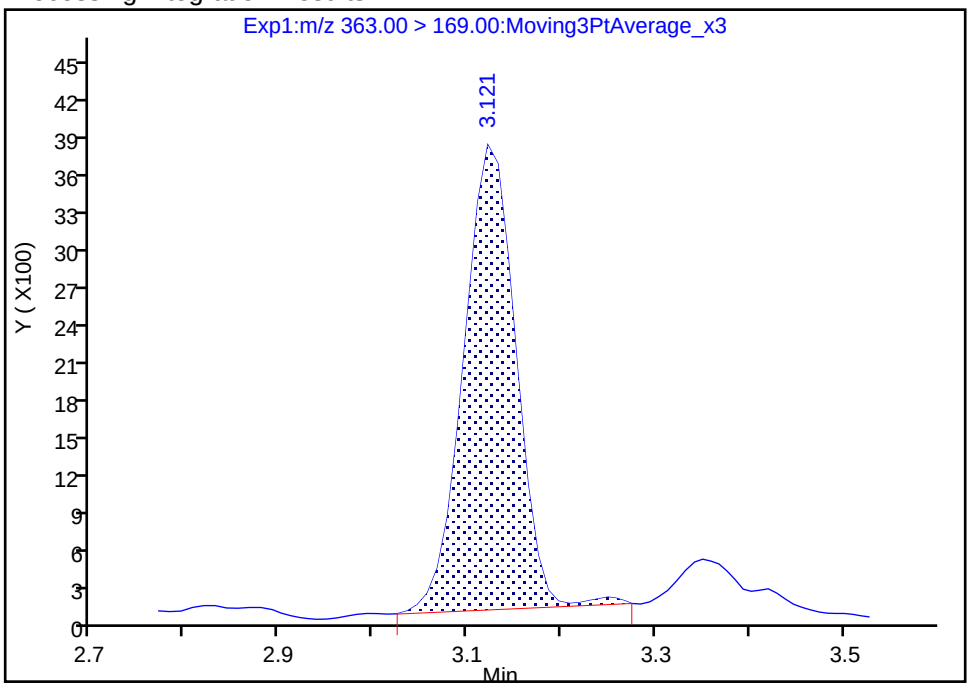
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A05.d				
Injection Date:	19-Feb-2021 13:52:49	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

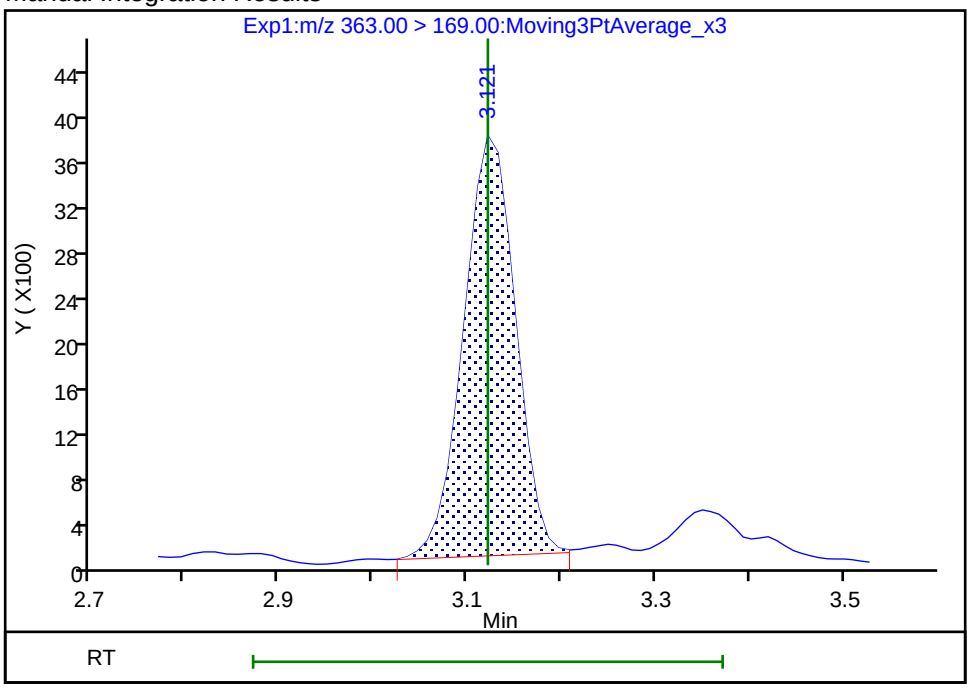
Processing Integration Results

RT: 3.12
Area: 14432
Amount: 0.052126
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 14287
Amount: 0.051567
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 09:06:41

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

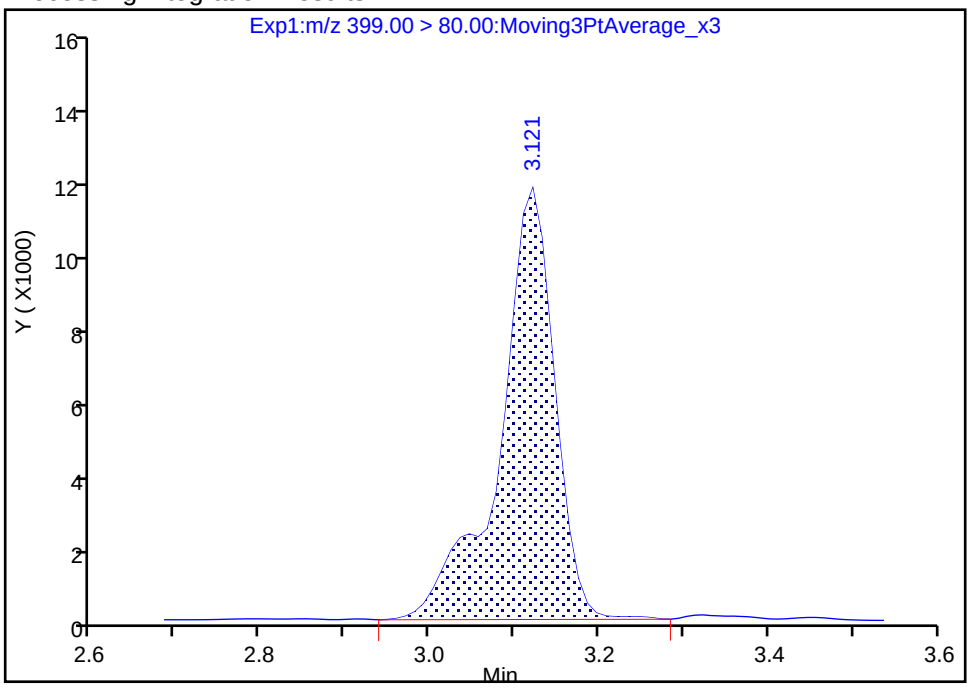
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A05.d				
Injection Date:	19-Feb-2021 13:52:49	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

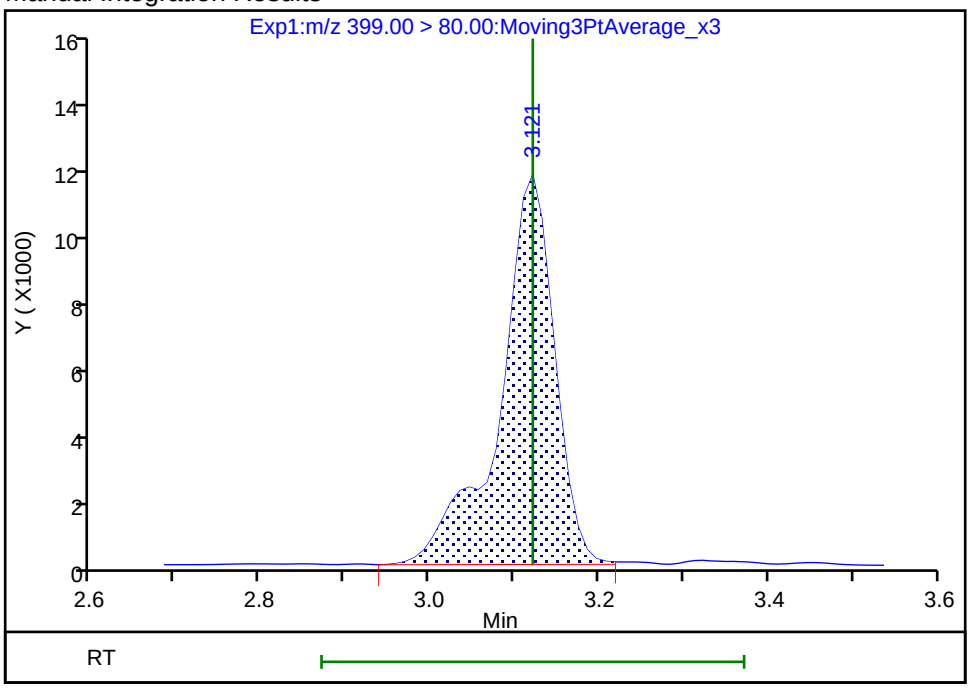
Processing Integration Results

RT: 3.12
Area: 52975
Amount: 0.047996
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 52791
Amount: 0.047829
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 09:06:09

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

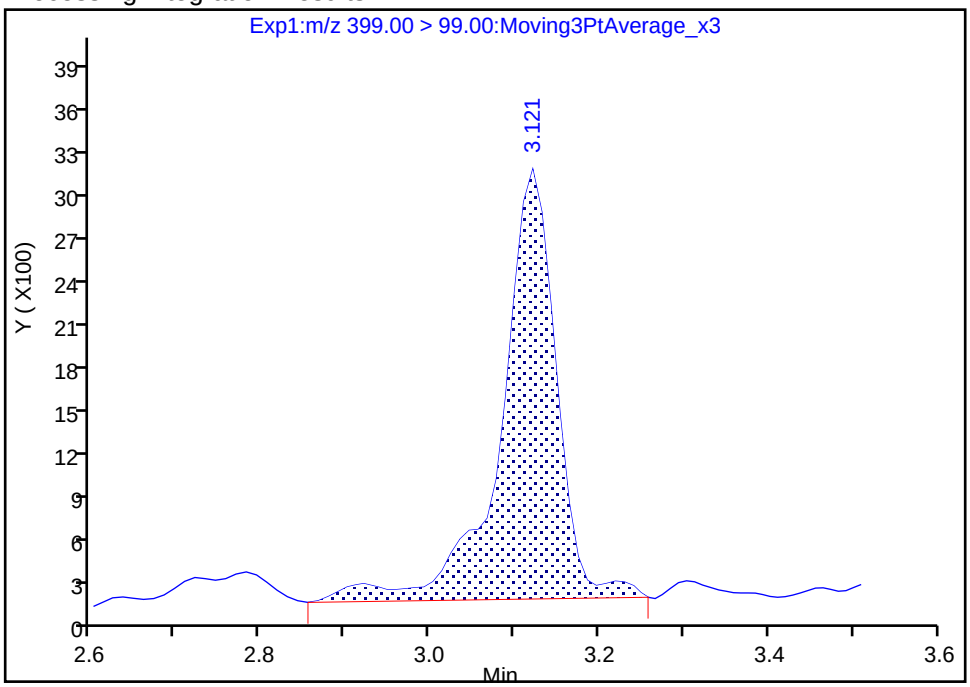
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A05.d				
Injection Date:	19-Feb-2021 13:52:49	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

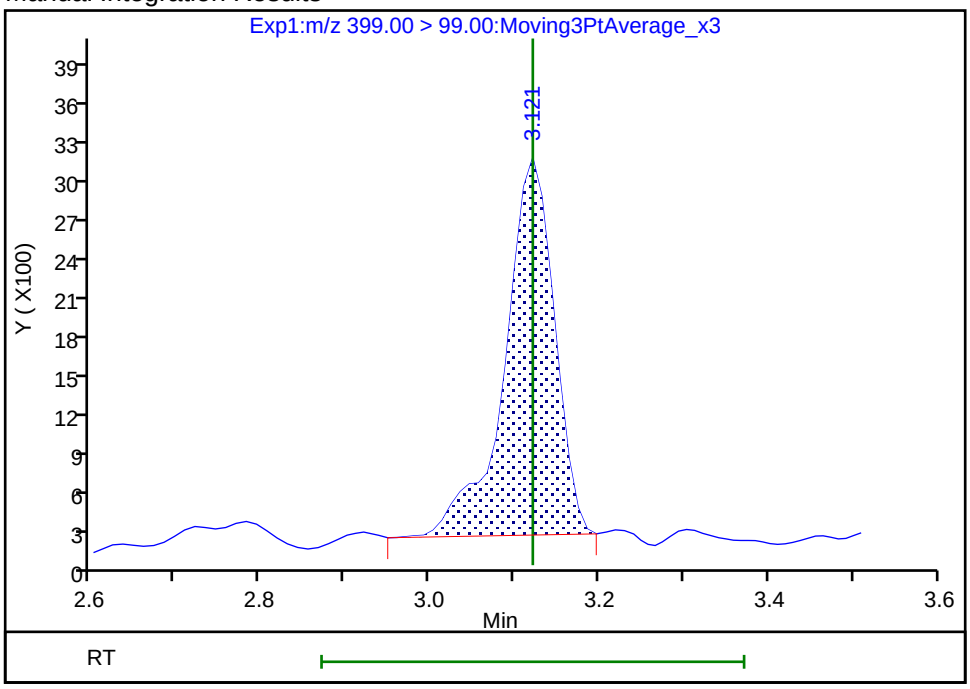
Processing Integration Results

RT: 3.12
Area: 13859
Amount: 0.047996
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 11904
Amount: 0.047829
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 09:06:22

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

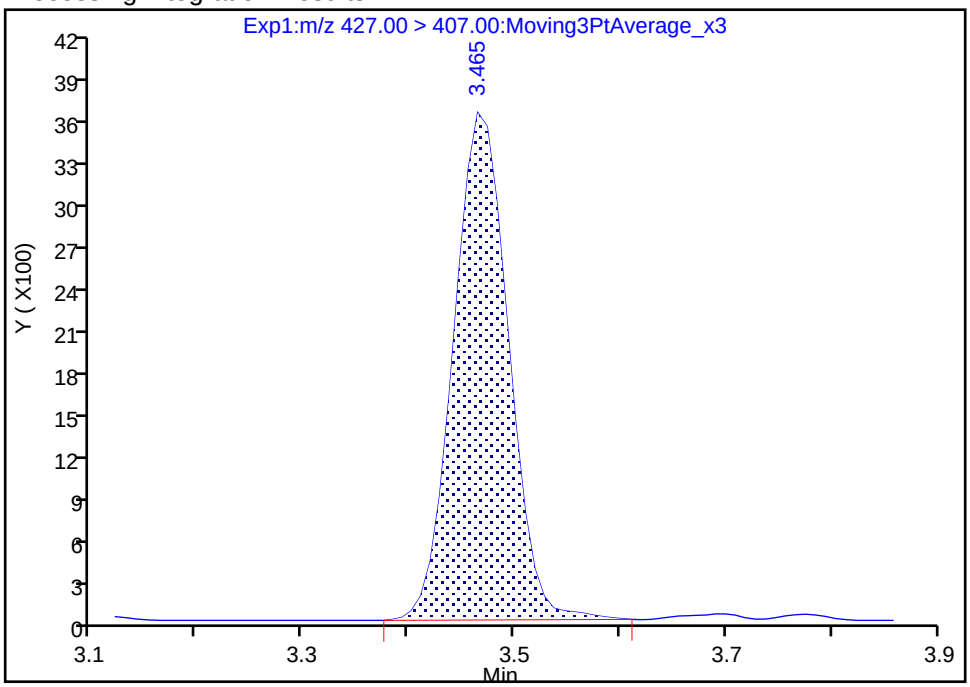
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A05.d				
Injection Date:	19-Feb-2021 13:52:49	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

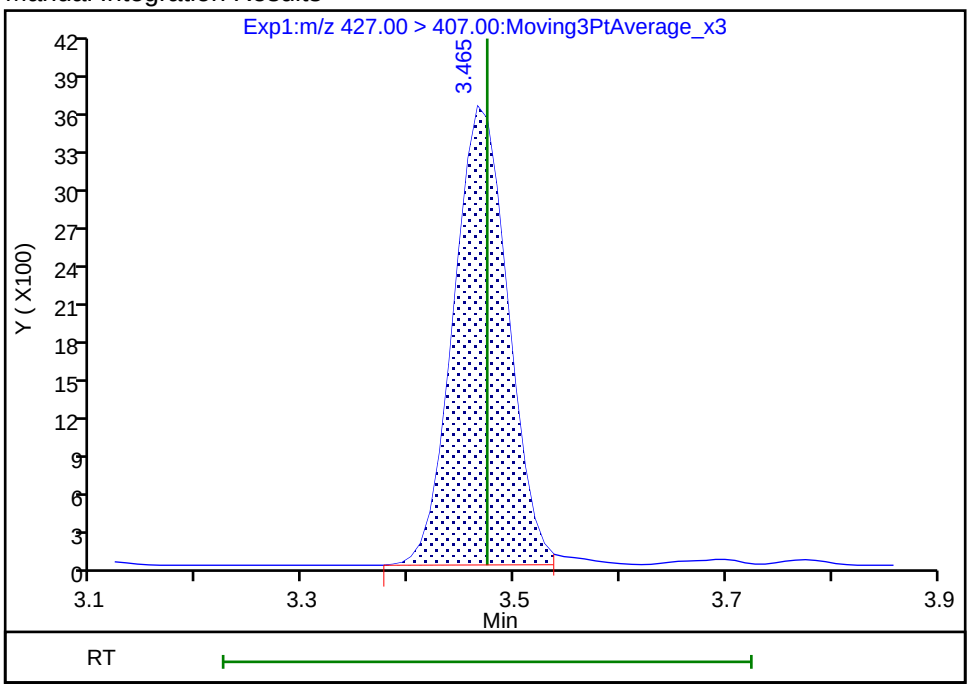
Processing Integration Results

RT: 3.47
Area: 13047
Amount: 0.097187
Amount Units: ng/ml



Manual Integration Results

RT: 3.47
Area: 12898
Amount: 0.096077
Amount Units: ng/ml



Reviewer: deannd, 22-Feb-2021 10:43:48

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

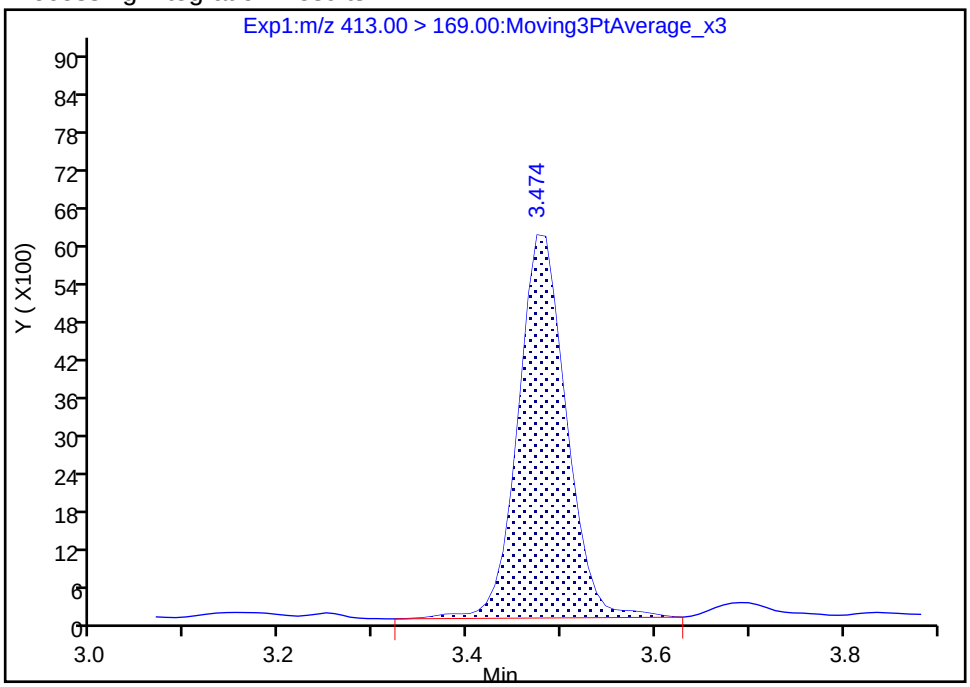
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A05.d				
Injection Date:	19-Feb-2021 13:52:49	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

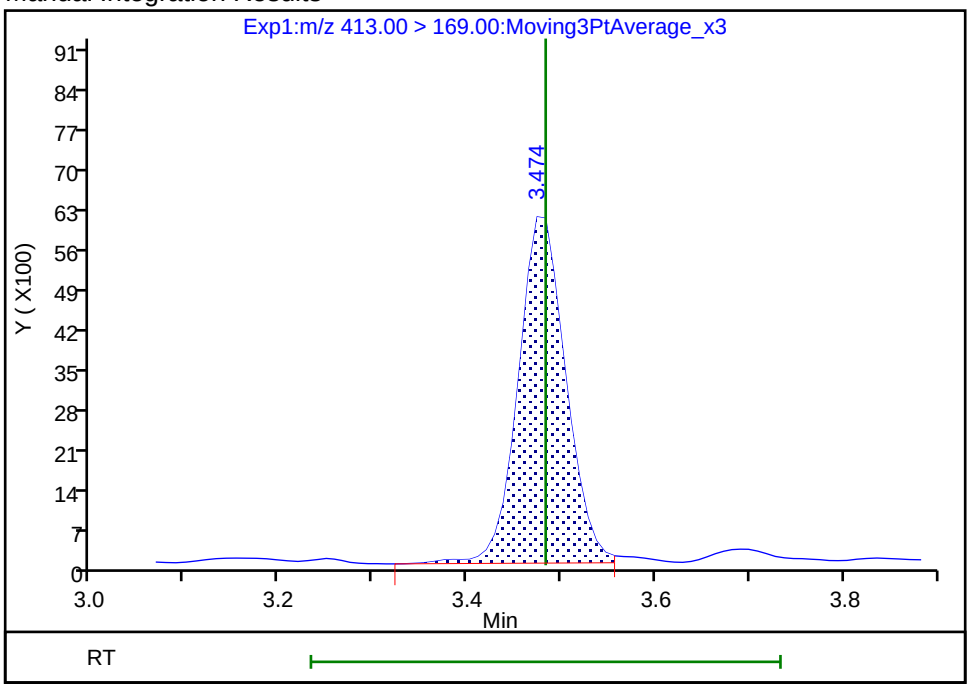
Processing Integration Results

RT: 3.47
Area: 21669
Amount: 0.050976
Amount Units: ng/ml



Manual Integration Results

RT: 3.47
Area: 21403
Amount: 0.050976
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 09:07:01

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

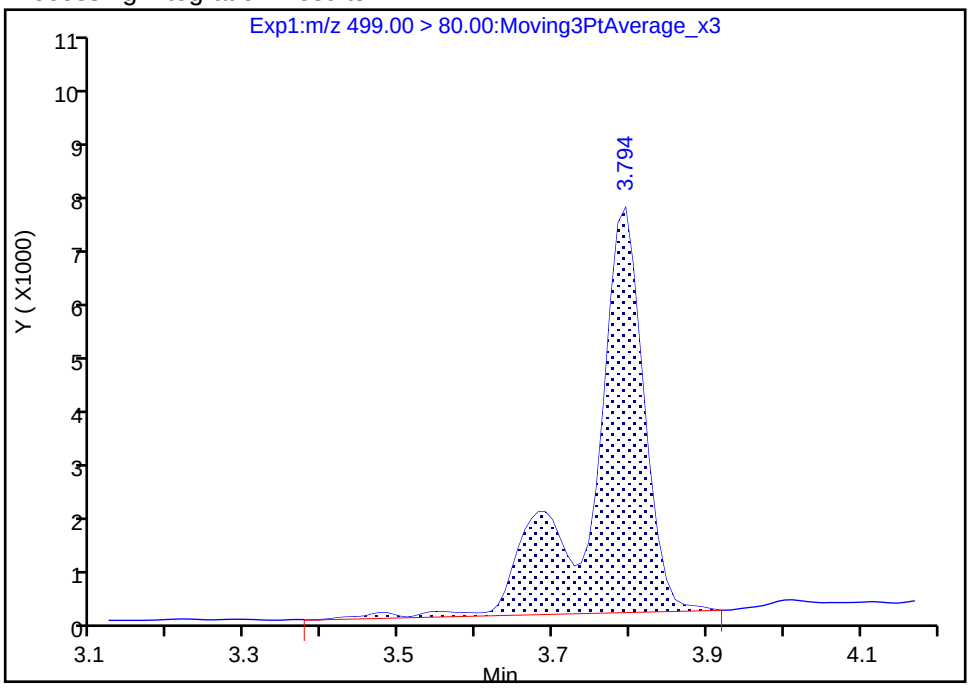
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A05.d				
Injection Date:	19-Feb-2021 13:52:49	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

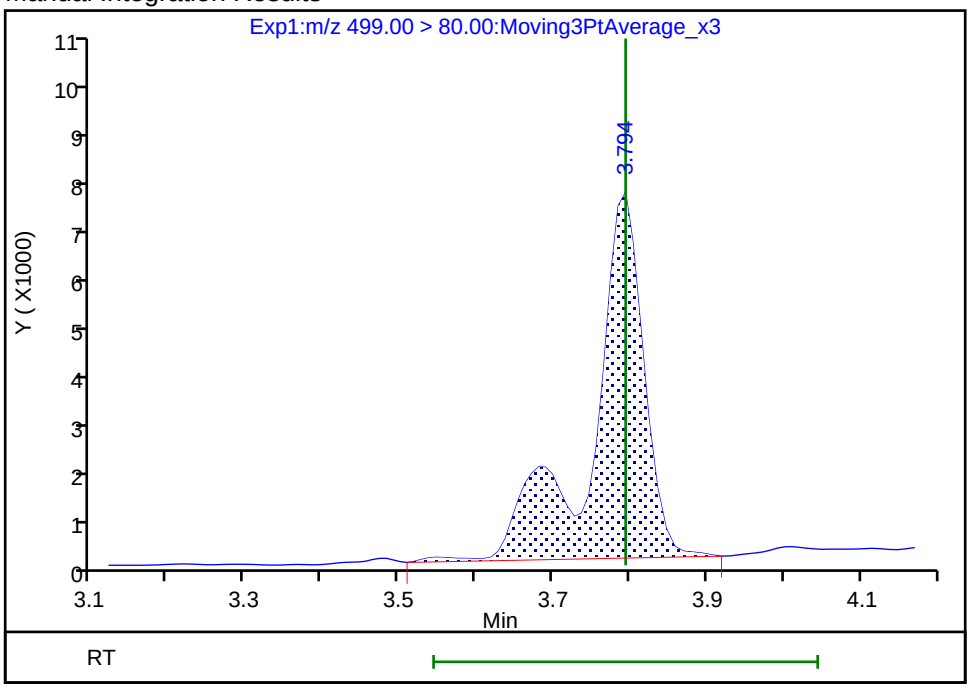
Processing Integration Results

RT: 3.79
Area: 35642
Amount: 0.045493
Amount Units: ng/ml



Manual Integration Results

RT: 3.79
Area: 35192
Amount: 0.044919
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 09:07:14

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

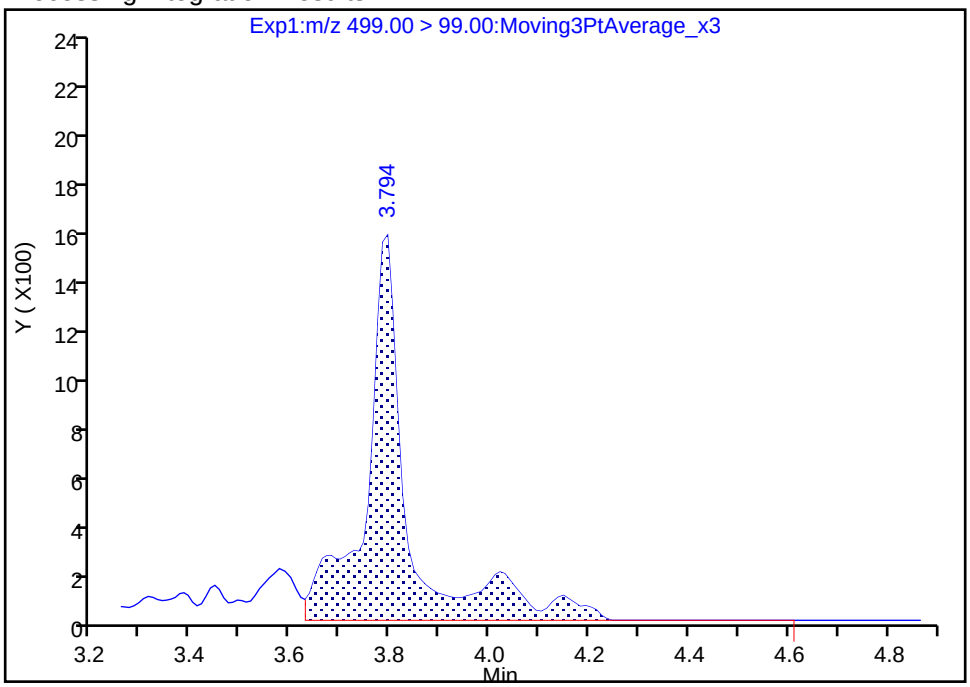
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A05.d				
Injection Date:	19-Feb-2021 13:52:49	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

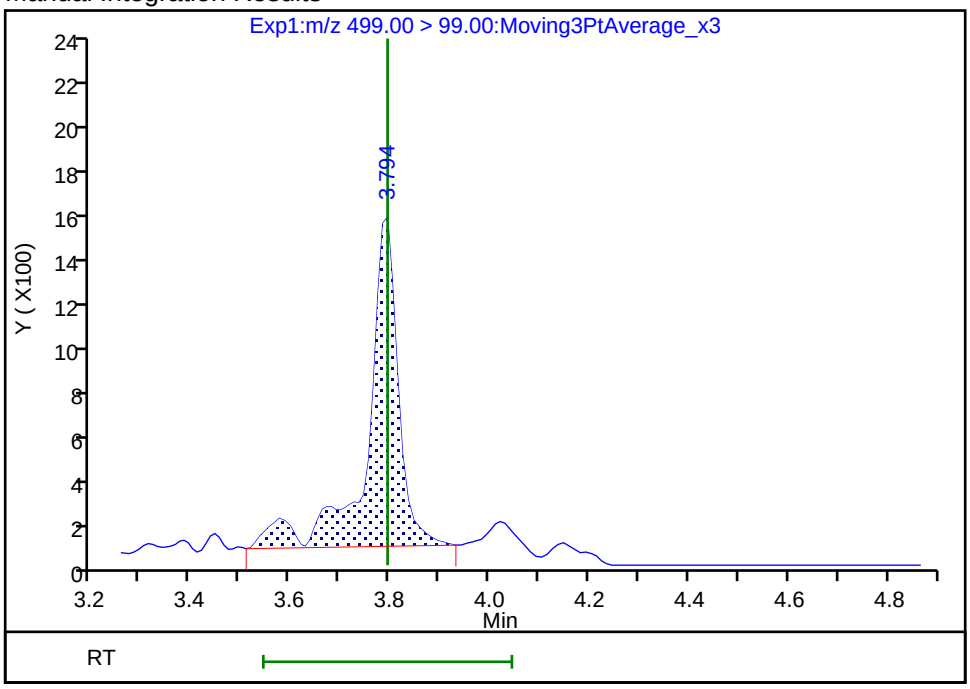
Processing Integration Results

RT: 3.79
Area: 9186
Amount: 0.045493
Amount Units: ng/ml



Manual Integration Results

RT: 3.79
Area: 6444
Amount: 0.044919
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 09:07:24

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

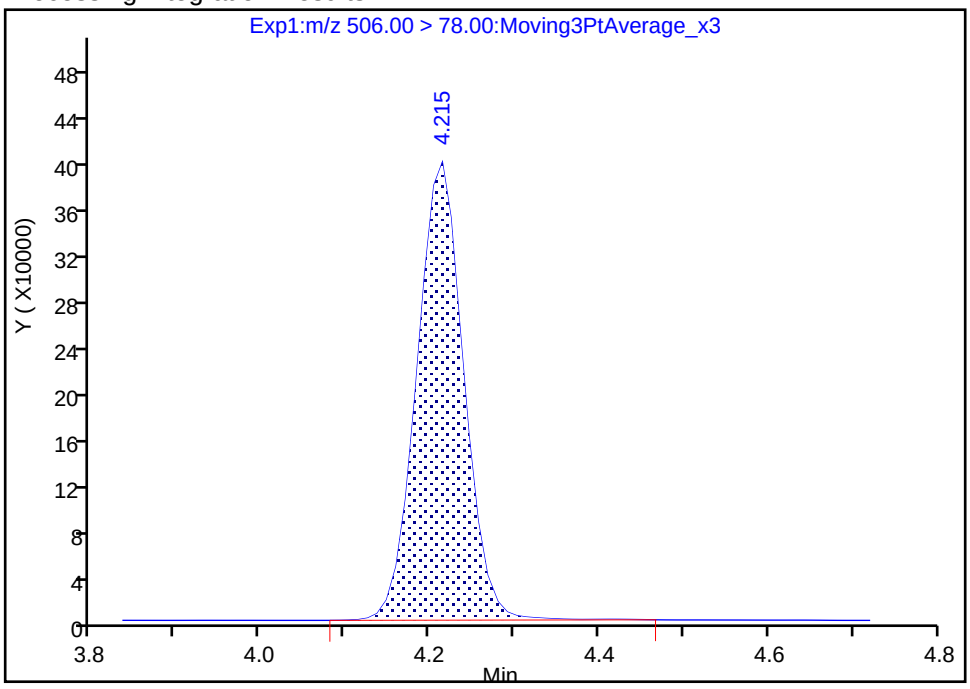
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A05.d				
Injection Date:	19-Feb-2021 13:52:49	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

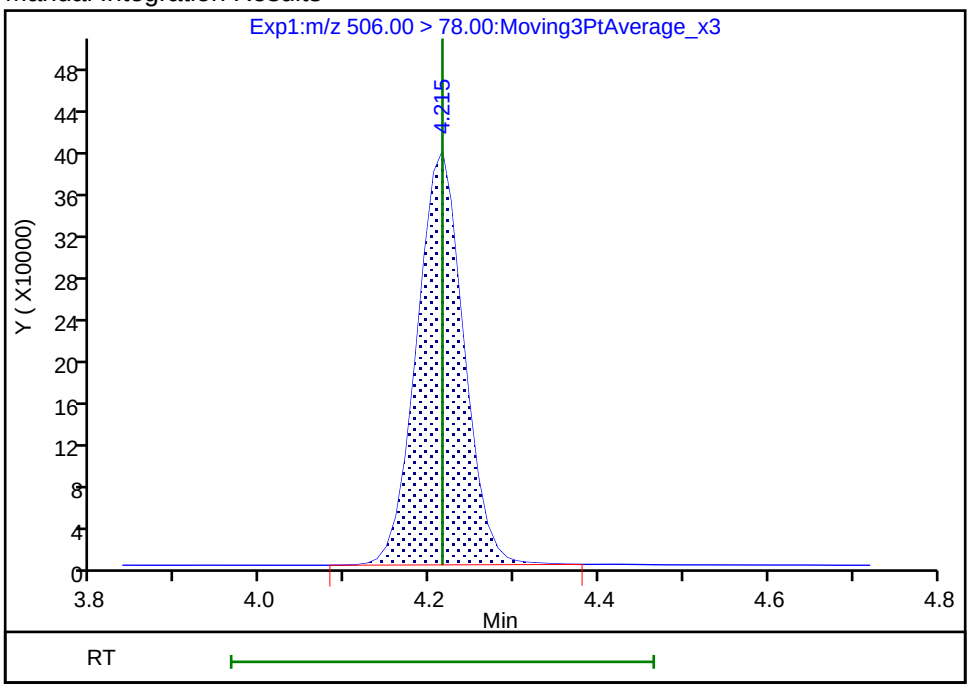
Processing Integration Results

RT: 4.21
Area: 1508919
Amount: 1.290632
Amount Units: ng/ml



Manual Integration Results

RT: 4.21
Area: 1503455
Amount: 1.285958
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 09:03:40

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

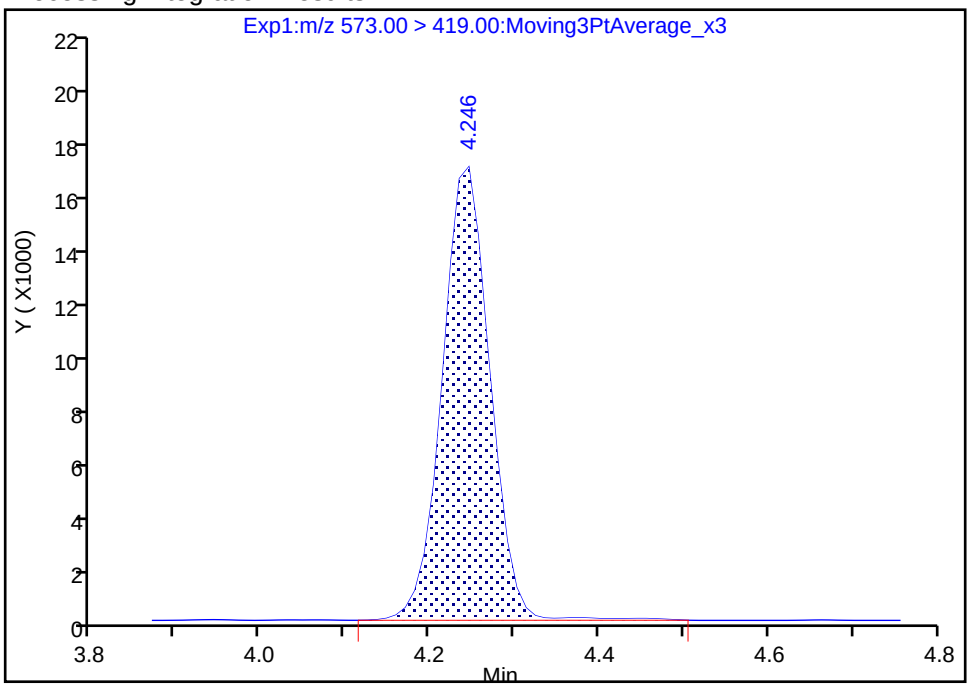
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A05.d
Injection Date: 19-Feb-2021 13:52:49 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

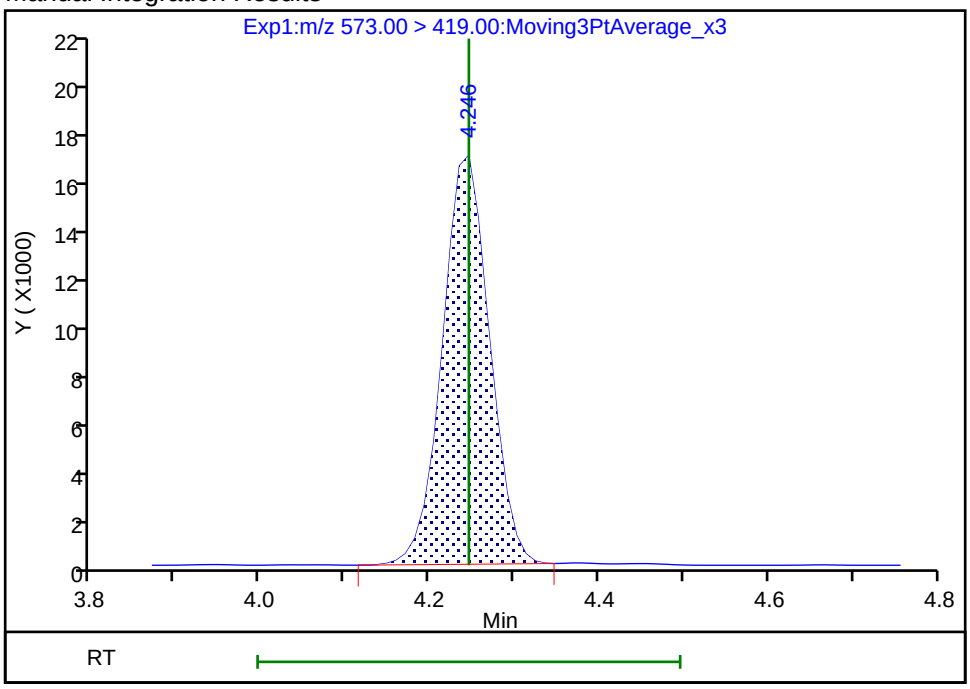
Processing Integration Results

RT: 4.25
Area: 65346
Amount: 1.132737
Amount Units: ng/ml



Manual Integration Results

RT: 4.25
Area: 64357
Amount: 1.115593
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 09:03:49
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

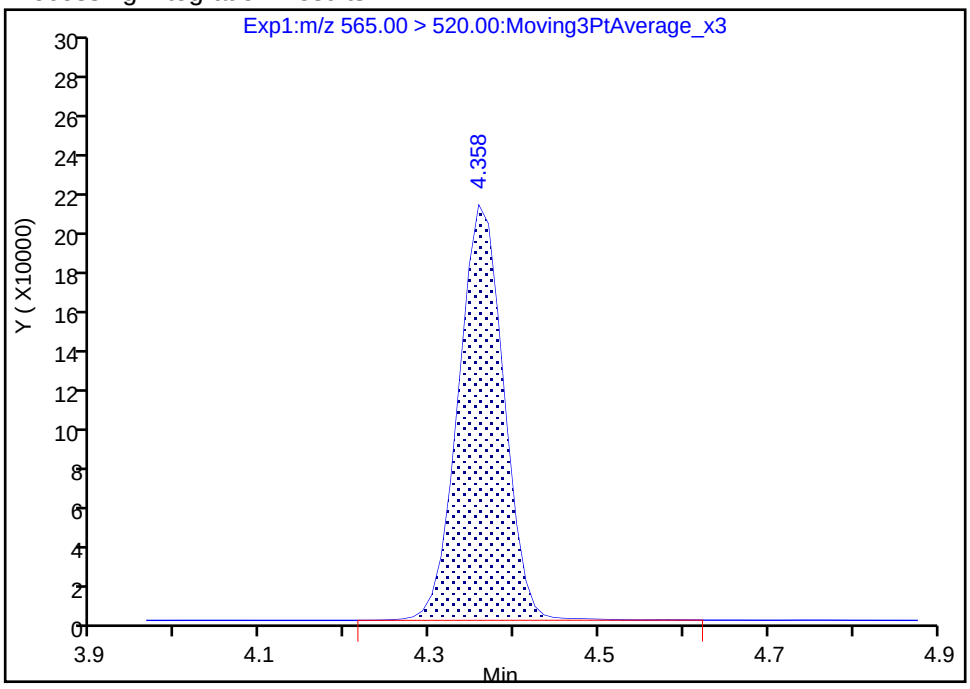
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A05.d				
Injection Date:	19-Feb-2021 13:52:49	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

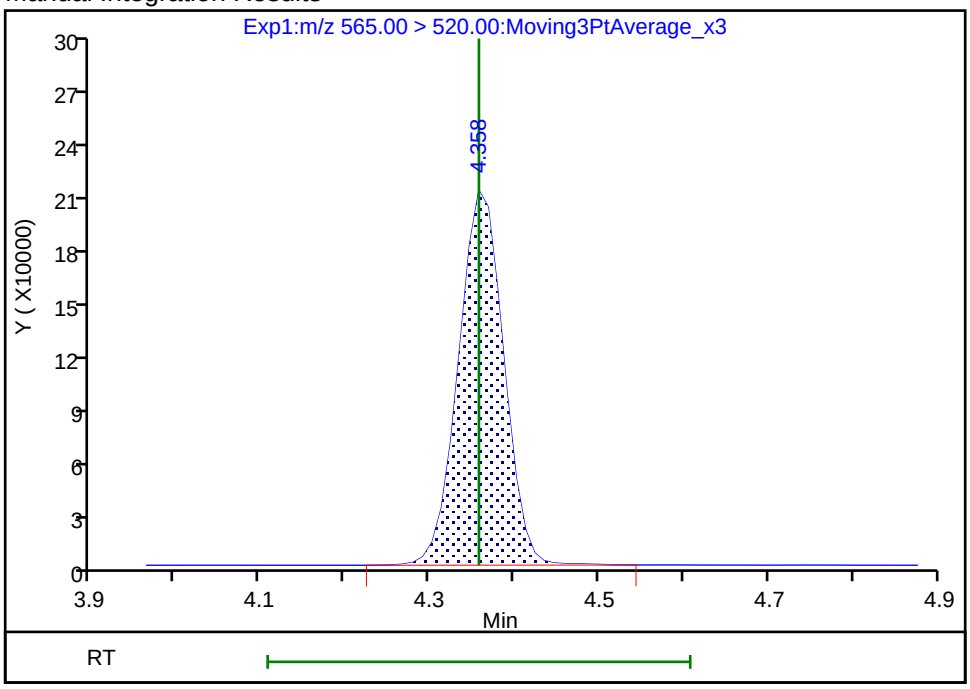
Processing Integration Results

RT: 4.36
Area: 774596
Amount: 1.185621
Amount Units: ng/ml



Manual Integration Results

RT: 4.36
Area: 773914
Amount: 1.184577
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 09:04:01

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

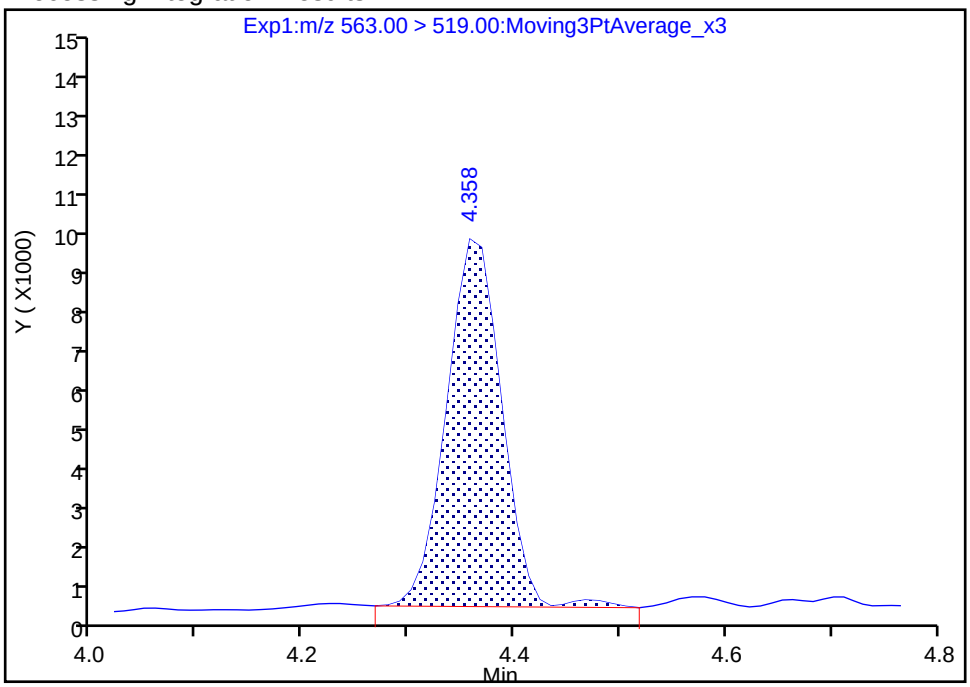
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A05.d				
Injection Date:	19-Feb-2021 13:52:49	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

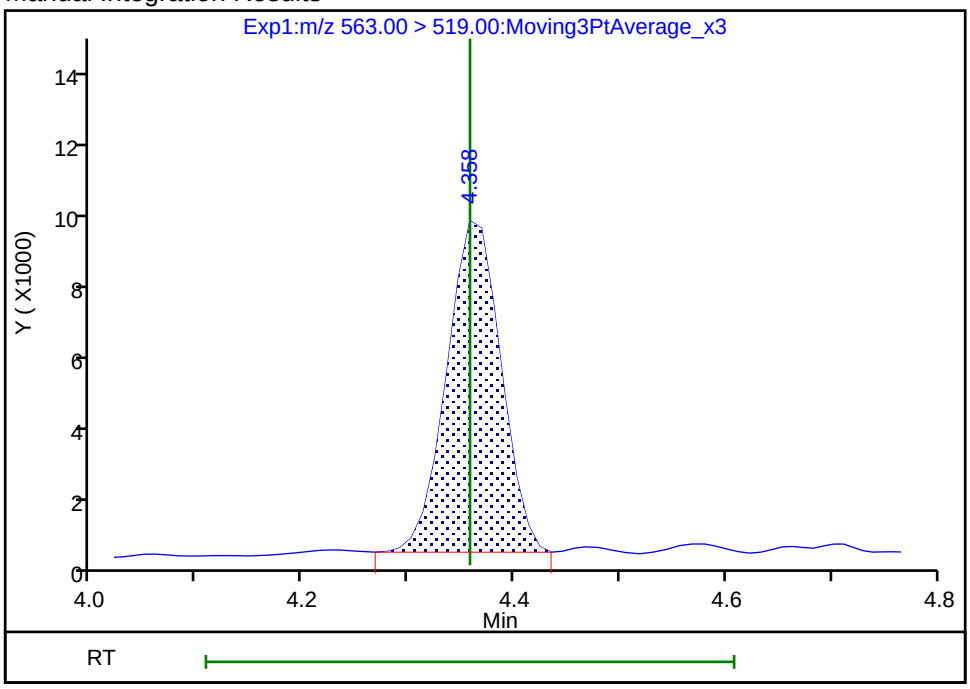
Processing Integration Results

RT: 4.36
Area: 33602
Amount: 0.053217
Amount Units: ng/ml



Manual Integration Results

RT: 4.36
Area: 32959
Amount: 0.052199
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 09:08:52
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

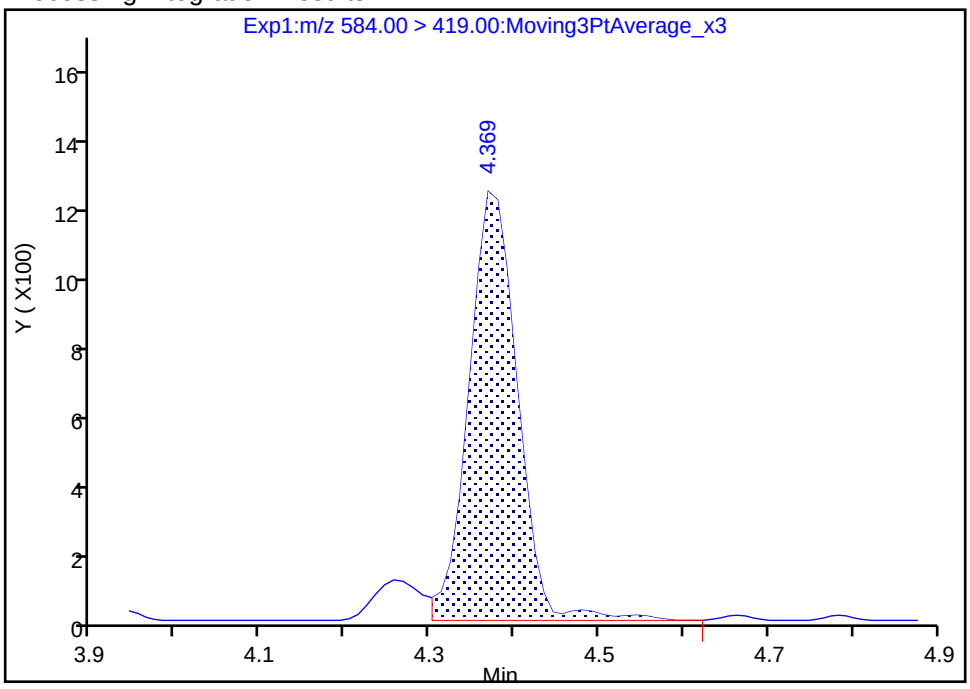
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A05.d				
Injection Date:	19-Feb-2021 13:52:49	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

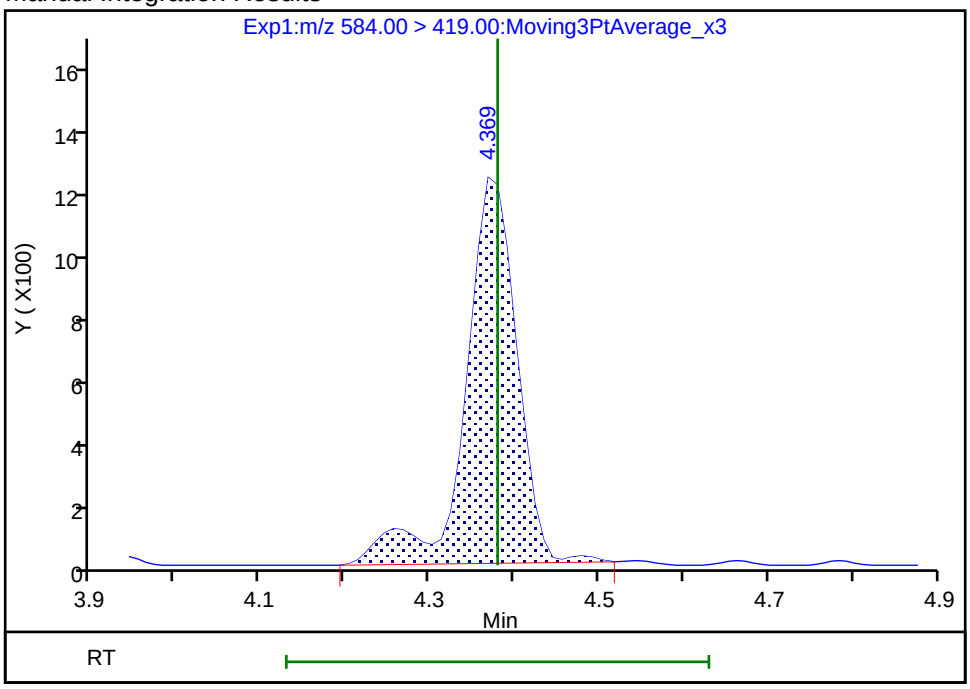
Processing Integration Results

RT: 4.37
Area: 4988
Amount: 0.103203
Amount Units: ng/ml



Manual Integration Results

RT: 4.37
Area: 5289
Amount: 0.109431
Amount Units: ng/ml



Reviewer: deannd, 22-Feb-2021 10:44:23

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

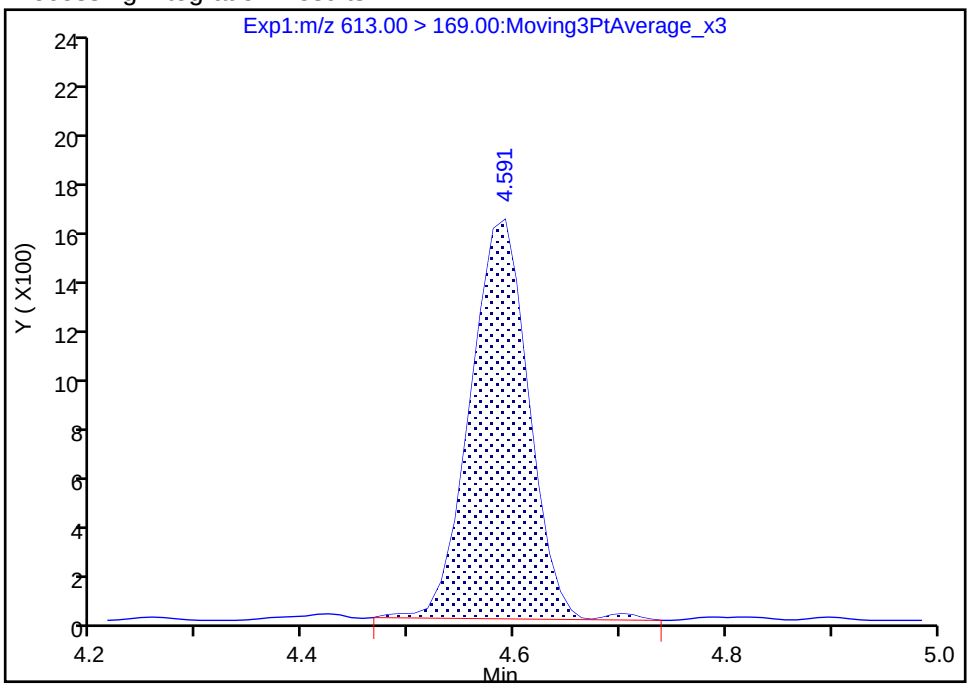
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A05.d				
Injection Date:	19-Feb-2021 13:52:49	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

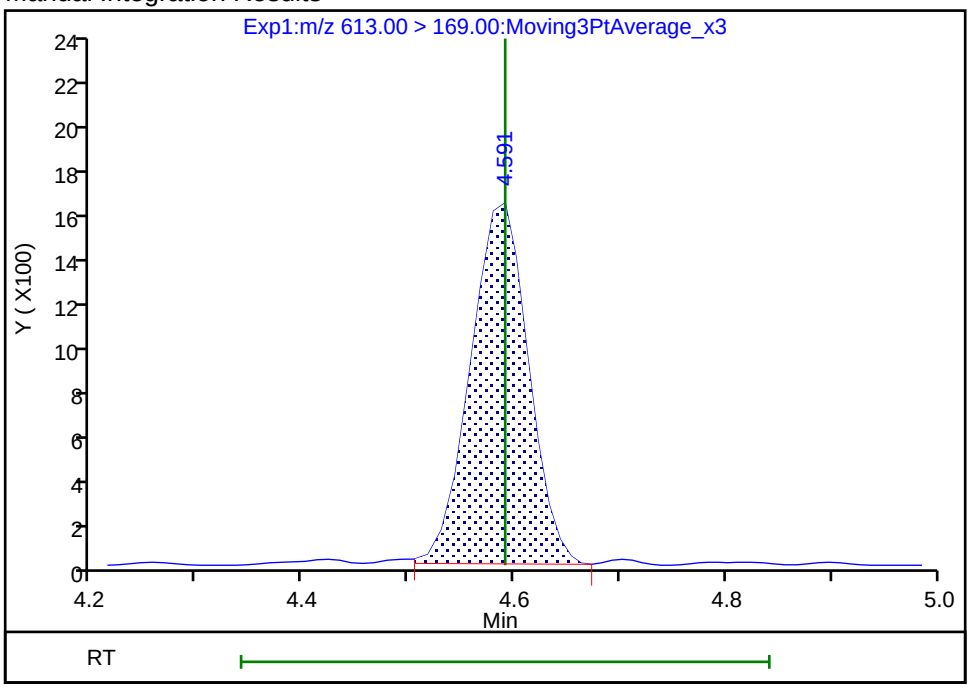
Processing Integration Results

RT: 4.59
Area: 6069
Amount: 0.044119
Amount Units: ng/ml



Manual Integration Results

RT: 4.59
Area: 5991
Amount: 0.044119
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 09:09:44

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCVIS 200-164129/6 Calibration Date: 02/19/2021 14:01

Instrument ID: LC812 Calib Start Date: 12/22/2020 12:48

GC Column: C-18 ID: 4.60(mm) Calib End Date: 12/22/2020 13:29

Lab File ID: PA210219A06.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.002	0.9942		0.992	1.00	-0.8	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.107	1.075		0.971	1.00	-2.9	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.131	1.135		0.887	0.884	0.3	40.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	1.834	1.777		0.905	0.934	-3.1	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.092	1.104		1.01	1.00	1.0	40.0
Perfluoropentanesulfonic acid	AveID	1.312	1.261		0.901	0.938	-3.9	50.0
HFPO-DA	AveID	1.385	1.897		1.37	1.00	36.9	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.092	1.063		0.973	1.00	-2.7	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.178	1.154		0.891	0.910	-2.1	40.0
DONA	AveID	3.349	3.513		0.988	0.942	4.9	50.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.350	1.362		0.960	0.952	0.9	50.0
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	AveID	1.112	0.9612		0.819	0.948	-13.6	40.0
Perfluorooctanoic acid (PFOA)	AveID	1.084	1.142		1.05	1.00	5.4	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.150	1.182		0.953	0.928	2.7	40.0
Perfluorononanoic acid (PFNA)	AveID	1.107	1.175		1.06	1.00	6.2	40.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	1.283	1.129		0.820	0.932	-12.0	50.0
Perfluorononanesulfonic acid	AveID	0.8581	0.8611		0.963	0.960	0.4	50.0
Perfluorodecanoic acid (PFDA)	AveID	1.031	1.051		1.02	1.00	2.0	40.0
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	AveID	0.6801	0.5436		0.766	0.958	-20.1	40.0
Perfluorooctanesulfonamide (FOSA)	AveID	1.002	1.040		1.04	1.00	3.8	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.8864	0.9260		1.05	1.00	4.5	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6841	0.6981		0.984	0.964	2.1	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	1.020	1.042		1.02	1.00	2.2	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9257	0.9860		1.07	1.00	6.5	40.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	1.331	1.084		0.767	0.942	-18.6	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.100	1.115		1.01	1.00	1.4	40.0
10:2 FTS	AveID	0.3501	0.2790		0.768	0.964	-20.3	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2517	0.2430		0.934	0.968	-3.5	50.0
Perfluorotridecanoic acid (PFTriA)	AveID	0.8926	0.9250		1.04	1.00	3.6	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1855	0.2092		1.13	1.00	12.8	40.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCVIS 200-164129/6 Calibration Date: 02/19/2021 14:01

Instrument ID: LC812 Calib Start Date: 12/22/2020 12:48

GC Column: C-18 ID: 4.60(mm) Calib End Date: 12/22/2020 13:29

Lab File ID: PA210219A06.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-hexadecanoic acid (PFHxDA)	L1ID		0.9508		1.01	1.00	0.6	40.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8998	0.8670		0.964	1.00	-3.6	50.0
13C4 PFBA	Ave	1.343	1.308		1.22	1.25	-2.7	50.0
13C5 PFPeA	Ave	0.9710	0.9778		1.26	1.25	0.7	50.0
13C3 PFBS	Ave	1.278	1.220		1.11	1.16	-4.5	50.0
M2-4:2 FTS	Ave	0.1066	0.1029		1.13	1.17	-3.5	50.0
13C2 PFHxA	Ave	1.018	1.002		1.23	1.25	-1.6	50.0
13C3 HFPO-DA	Ave	0.1792	0.1054		0.736	1.25	-41.2	50.0
13C4 PFHpA	Ave	0.9742	0.9679		1.24	1.25	-0.7	50.0
18O2 PFHxS	Ave	0.9511	0.9422		1.17	1.18	-0.9	50.0
M2-6:2 FTS	Ave	0.1187	0.1229		1.23	1.19	3.6	50.0
13C4 PFOA	Ave	0.9896	0.9358		1.18	1.25	-5.4	50.0
13C4 PFOS	Ave	0.6528	0.6432		1.18	1.20	-1.5	50.0
13C5 PFNA	Ave	0.8730	0.7831		1.12	1.25	-10.3	50.0
13C2 PFDA	Ave	0.8346	0.7586		1.14	1.25	-9.1	50.0
M2-8:2 FTS	Ave	0.1225	0.1211		1.18	1.20	-1.1	50.0
13C8 FOSA	Ave	1.227	1.184		1.21	1.25	-3.5	50.0
d3-NMeFOSAA	Ave	0.0605	0.0542		1.12	1.25	-10.5	50.0
13C2 PFUnA	Ave	0.6856	0.6006		1.10	1.25	-12.4	50.0
d5-NEtFOSAA	Ave	0.0585	0.0468		1.00	1.25	-20.0	50.0
13C2 PFDoA	Ave	0.7238	0.6065		1.05	1.25	-16.2	50.0
13C2 PFTeDA	Ave	0.5353	0.4274		0.998	1.25	-20.1	50.0
13C2 PFHxDA	Ave	0.5718	0.4162		0.910	1.25	-27.2	50.0

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A06.d
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 19-Feb-2021 14:01:06 ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 200-0044895-006 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812
Sublist: chrom-PFC_LC812*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 22-Feb-2021 11:44:31 Calib Date: 22-Dec-2020 13:29:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1656

First Level Reviewer: deannd Date: 19-Feb-2021 14:42:59
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.082	2.082	0.0	0.598	1296863	1.22		97.3	11305	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.082	2.082	0.0	1.000	1031520	0.99		99.2	224	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.400	2.400	0.0	0.689	969763	1.26		101	3271	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.400	2.400	0.0	1.000	834201	0.9711		97.1	49.0	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.426	2.426	0.0	0.697	1125699	1.11		95.5	212811	M
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.426	2.426	0.0	1.000	971302	0.8866	Target=2.21	100	1855	
298.90 > 99.00	2.426	2.426	0.0	1.000	438044		2.22(1.11-3.32)		344	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.722	2.722	0.0	0.781	95317	1.13		96.5	118	M
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.722	2.722	0.0	1.000	135473	0.9049		96.9	1492	
D 7 13C2 PFHxA										
315.00 > 270.00	2.758	2.758	0.0	0.792	993549	1.23		98.4	3173	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.758	2.758	0.0	1.000	877315	1.01	Target=12.83	101	275	
313.00 > 119.00	2.758	2.758	0.0	1.000	71386		12.29(6.42-19.25)		128	
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.758	2.758	0.0	0.884	884394	0.9015	Target=3.35	96.1	2111	
349.00 > 99.00	2.758	2.758	0.0	0.884	262222		3.37(1.67-5.02)		467	M
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.868	2.868	0.0	1.000	158683	1.37		137	35.3	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.868	2.868	0.0	0.823	104579	0.7356		58.8	878	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.122	3.122	0.0	1.000	784826	0.8908	Target=4.15	97.9	1509	M
399.00 > 99.00	3.122	3.122	0.0	1.000	184935		4.24(2.08-6.23)		191	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.122	3.122	0.0	0.896	884023	1.17		99.1	2061	
D 9 13C4 PFHpA										
367.00 > 322.00	3.122	3.122	0.0	0.896	959915	1.24		99.3	2522	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.122	3.122	0.0	1.000	816245	0.9732	Target=3.66	97.3	309	
363.00 > 169.00	3.122	3.122	0.0	1.000	228257		3.58(1.83-5.49)		492	
77 DONA										
377.00 > 251.00	3.164	3.164	0.0	0.834	1688740	0.9882	Target=2.43	105	2286	
377.00 > 85.00	3.164	3.164	0.0	0.834	667777		2.53(1.22-3.65)		846	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.465	3.465	0.0	0.913	661798	0.9604	Target=5.95	101	2849	
449.00 > 99.00	3.465	3.465	0.0	0.913	105868		6.25(2.98-8.93)		346	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.474	3.474	0.0	0.997	115840	1.23		104	440	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.474	3.474	0.0	1.000	88888	0.8192		86.4	685	
D 14 13C4 PFOA										
417.00 > 372.00	3.483	3.483	0.0	1.000	928120	1.18		94.6	2825	
* 62 13C2 PFOA										
415.00 > 370.00	3.483	3.483	0.0		991801	1.25			4294	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.483	3.483	0.0	1.000	848035	1.05	Target=2.58	105	263	
413.00 > 169.00	3.483	3.483	0.0	1.000	331075		2.56(1.29-3.87)		760	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.794	3.794	0.0	1.000	559597	0.9534	Target=5.65	103	607	M
499.00 > 99.00	3.785	3.794	-0.009	0.997	93658		5.97(2.82-8.47)		300	M
D 18 13C4 PFOS										
503.00 > 80.00	3.794	3.794	0.0	1.089	609860	1.18		98.5	2811	
D 19 13C5 PFNA										
468.00 > 423.00	3.814	3.814	0.0	1.095	776728	1.12		89.7	2619	
20 Perfluorononanoic acid										
463.00 > 419.00	3.814	3.814	0.0	1.000	730281	1.06	Target=7.44	106	210	
463.00 > 169.00	3.814	3.814	0.0	1.000	105865		6.90(3.72-11.16)		1170	
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.955	3.955	0.0	1.042	536874	0.8198		88.0	2060	M
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.071	4.071	0.0	1.073	421871	0.9634	Target=2.54	100	2031	
549.00 > 99.00	4.071	4.071	0.0	1.073	143388		2.94(1.27-3.81)		450	
D 23 13C2 PFDA										
515.00 > 470.00	4.104	4.104	0.0	1.178	752341	1.14		90.9	3846	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.104	4.104	0.0	1.000	632623	1.02	Target=9.29	102	527	
513.00 > 169.00	4.104	4.104	0.0	1.000	76912		8.23(4.64-13.93)		677	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.115	4.115	0.0	1.181	115077	1.18		98.9	500	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.115	4.115	0.0	1.000	50045	0.7657		79.9	1511	
D 21 13C8 FOSA										
506.00 > 78.00	4.215	4.215	0.0	1.210	1174119	1.21		96.5	3009	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.215	4.215	0.0	1.000	976693	1.04		104	2495	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.246	4.246	0.0	1.219	53753	1.12		89.5	180	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.246	4.246	0.0	1.000	39819	1.04		104	352	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.336	4.336	0.0	1.143	343457	0.9838	Target=2.80	102	2058	
599.00 > 99.00	4.336	4.336	0.0	1.143	123687		2.78(1.40-4.19)		983	
D 30 13C2 PFUnA										
565.00 > 520.00	4.358	4.358	0.0	1.251	595694	1.10		87.6	3080	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.358	4.358	0.0	1.000	496712	1.02	Target=8.12	102	351	
563.00 > 169.00	4.358	4.358	0.0	1.000	63086		7.87(4.06-12.18)		618	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.369	4.369	0.0	1.254	46450	1.00		80.0	364	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.380	4.380	0.0	1.003	36640	1.07		107	403	M
66 11-Chloroeicosafluoro-3-oxaundec										M
631.00 > 451.00	4.456	4.456	0.0	1.174	521296	0.7672		81.4	3047	M
D 36 13C2 PFDoA										
615.00 > 570.00	4.591	4.591	0.0	1.318	601513	1.05		83.8	3563	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.591	4.591	0.0	1.000	536439	1.01	Target=6.91	101	203	
613.00 > 169.00	4.580	4.591	-0.011	0.998	83251		6.44(3.45-10.36)		1171	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.601	4.601	0.0	1.118	25847	0.7682		79.7	673	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.748	4.748	0.0	1.251	120031	0.9345	Target=0.51	96.5	1172	
699.00 > 99.00	4.748	4.748	0.0	1.251	245970		0.49(0.26-0.77)		958	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.784	4.784	0.0	1.042	445134	1.04	Target=4.39	104	203	
663.00 > 169.00	4.784	4.784	0.0	1.042	113920		3.91(2.20-6.59)		1532	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.966	4.966	0.0	1.426	423930	1.00		79.9	2768	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.966	4.966	0.0	1.000	70954	1.13	Target=1.06	113	2072	
713.00 > 219.00	4.966	4.966	0.0	1.000	67789		1.05(0.53-1.59)		1236	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.293	5.293	0.0	1.520	412762	0.9098		72.8	2649	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.293	5.293	0.0	1.000	313972	1.01	Target=3.84	101	150	
813.00 > 169.00	5.293	5.293	0.0	1.000	88503		3.55(1.92-5.76)		2287	
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.592	5.592	0.0	1.056	286286	0.9636	Target=3.92	96.4	359	M
913.00 > 169.00	5.582	5.592	-0.010	1.055	80736		3.55(1.96-5.88)		1275	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC4_00015 Amount Added: 100.00 Units: uL

Report Date: 22-Feb-2021 11:44:32 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A06.d

Injection Date: 19-Feb-2021 14:01:06 Instrument ID: LC812

Lims ID: CCVIS

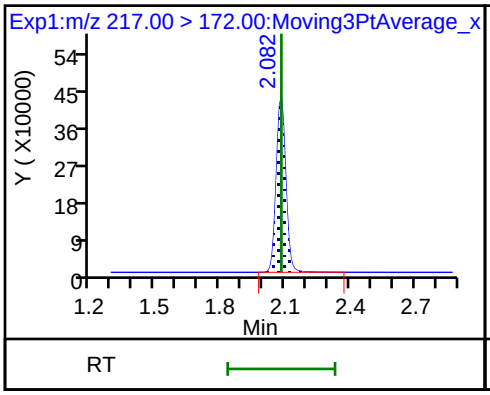
Client ID:

Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6

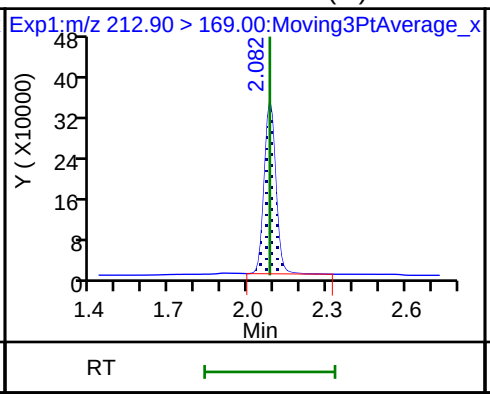
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

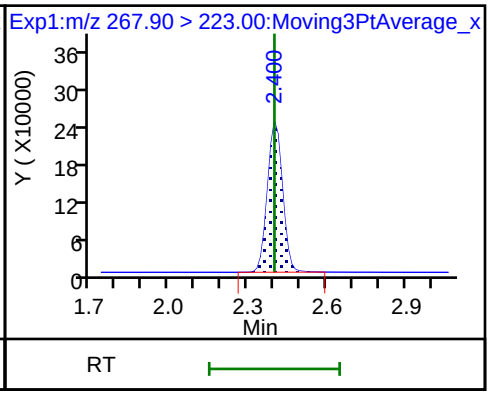
D 1 13C4 PFBA



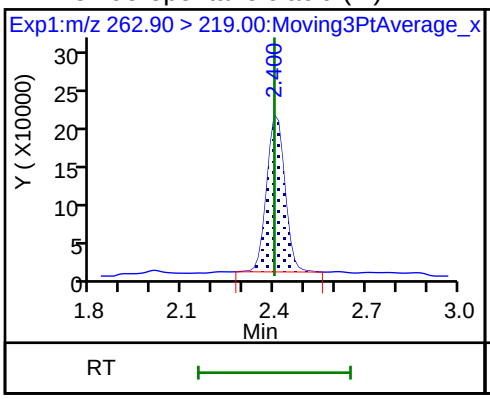
2 Perfluorobutanoic acid (M)



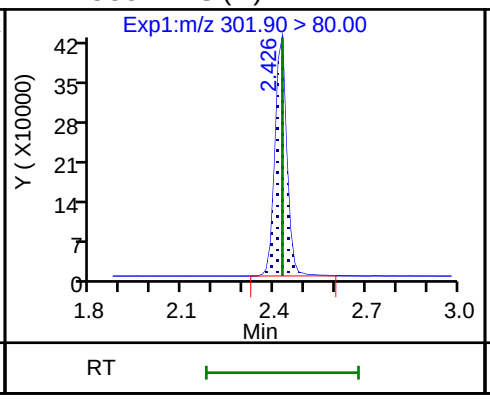
D 3 13C5 PFPeA



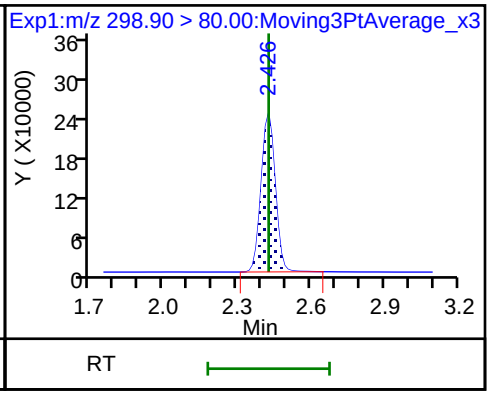
4 Perfluoropentanoic acid (M)



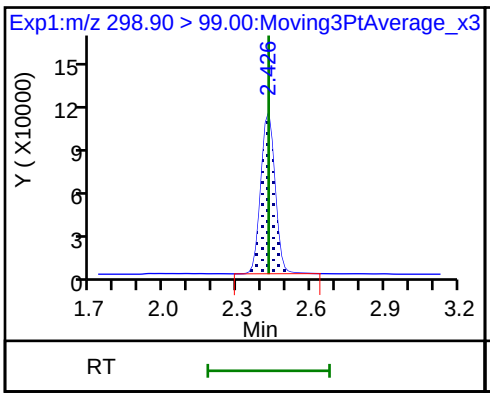
D 47 13C3 PFBS (M)



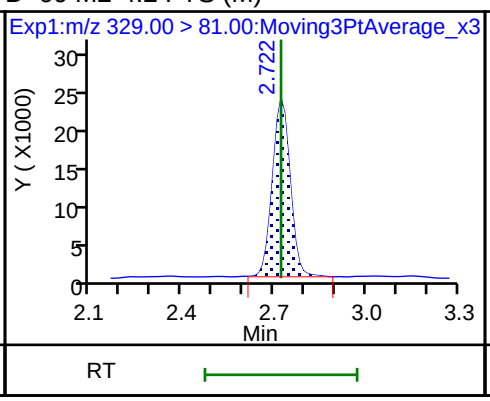
5 Perfluorobutanesulfonic acid



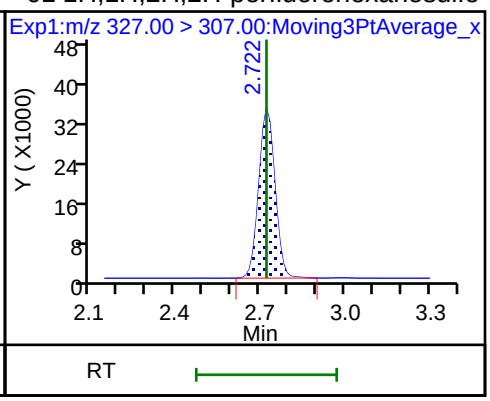
5 Perfluorobutanesulfonic acid



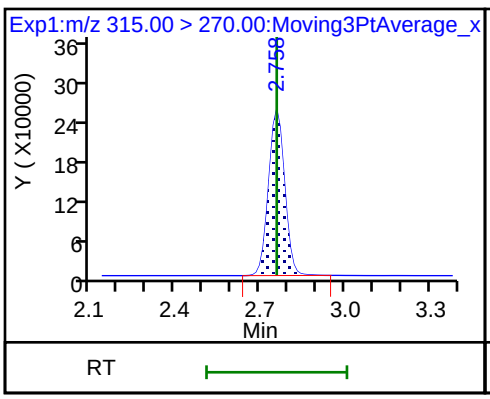
D 60 M2-4:2 FTS (M)



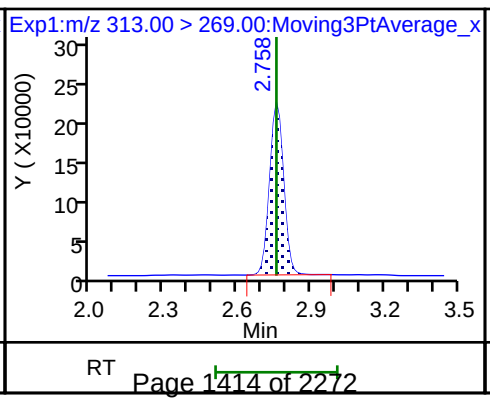
61 1H,1H,2H,2H-perfluorohexanesulfo



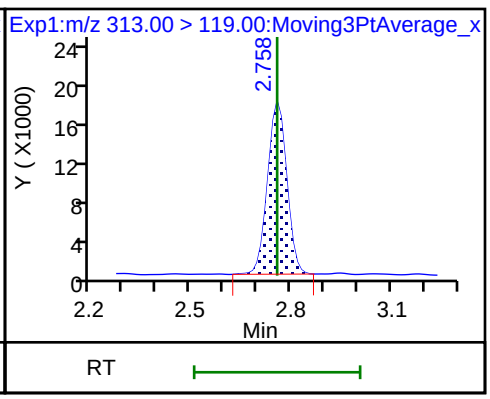
D 7 13C2 PFHxA



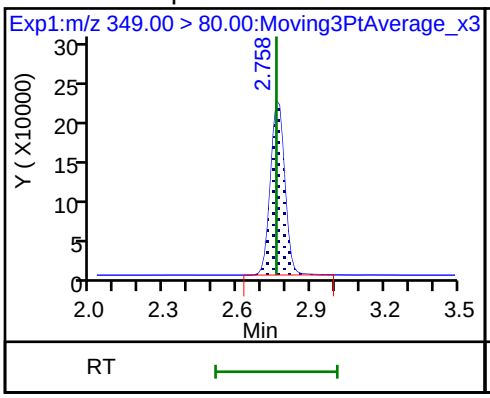
6 Perfluorohexanoic acid



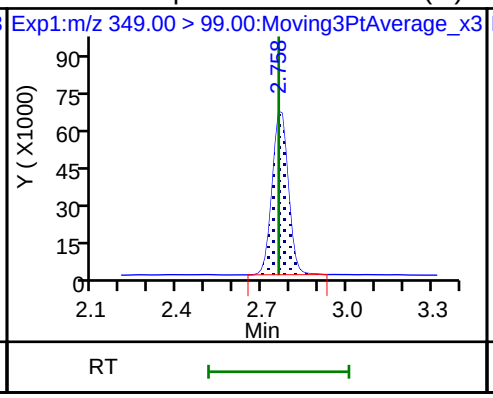
6 Perfluorohexanoic acid



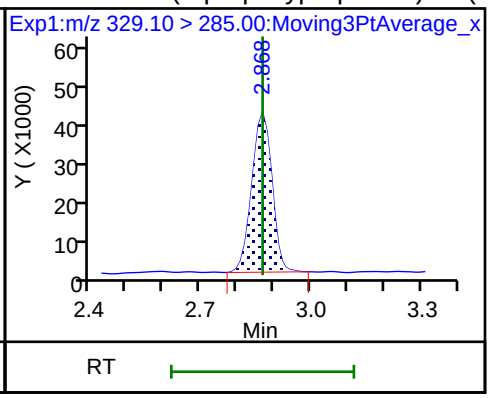
70 Perfluoropentanesulfonic acid



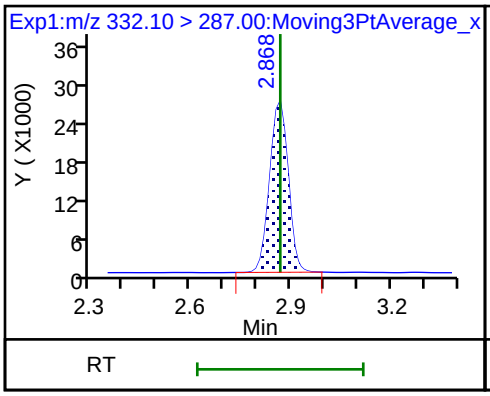
70 Perfluoropentanesulfonic acid (M)



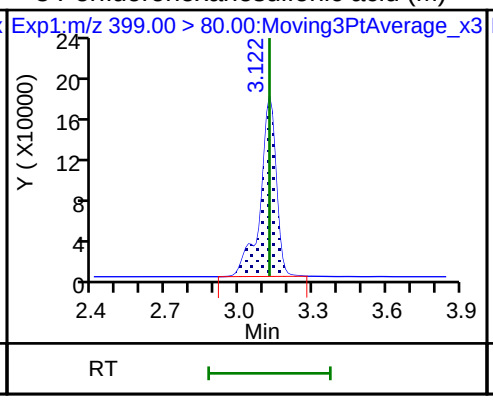
67 Perfluoro(2-propoxypropanoic) ac (M)



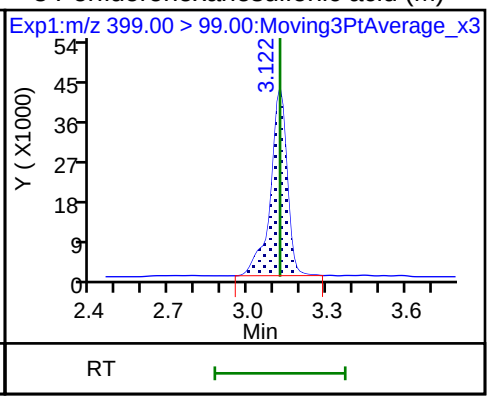
D 64 13C3 HFPO-DA



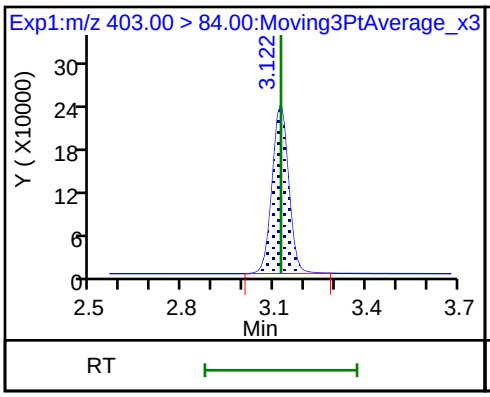
8 Perfluorohexanesulfonic acid (M)



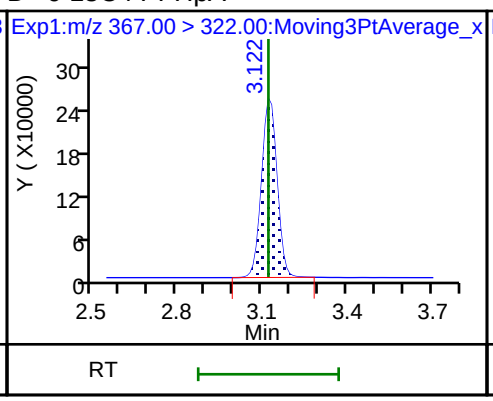
8 Perfluorohexanesulfonic acid (M)



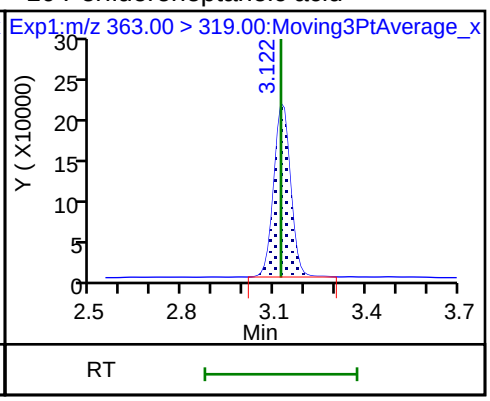
D 11 18O2 PFHxS



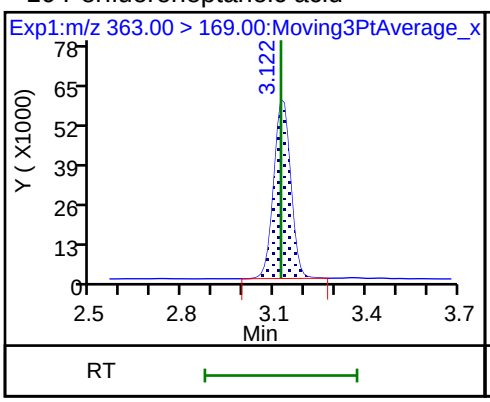
D 9 13C4 PFHpA



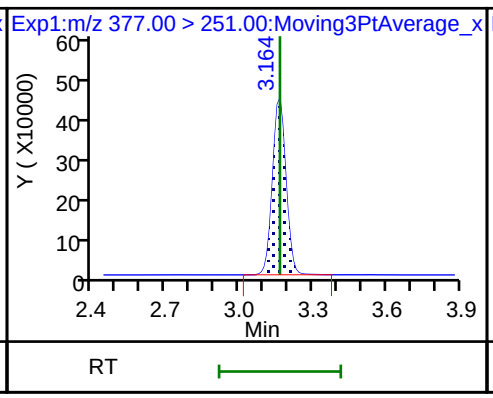
10 Perfluoroheptanoic acid



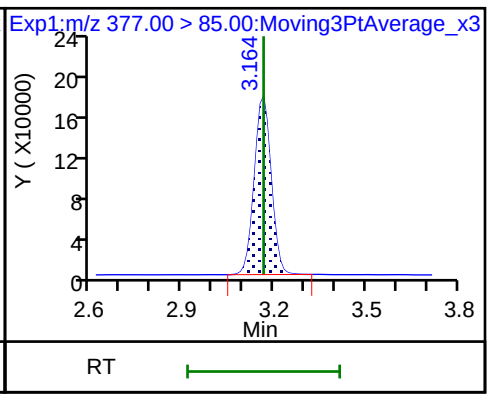
10 Perfluoroheptanoic acid



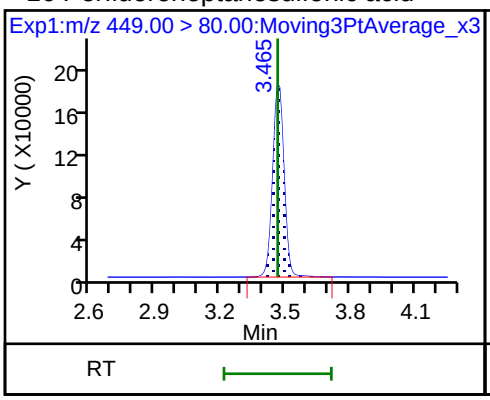
77 DONA



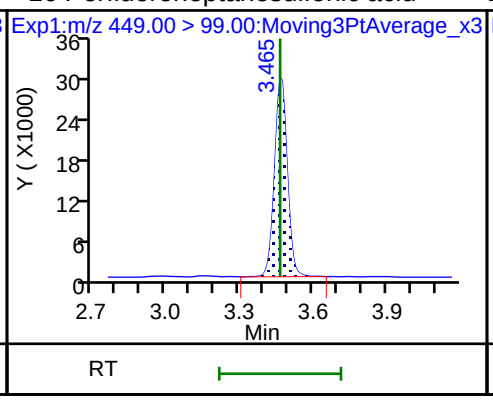
77 DONA



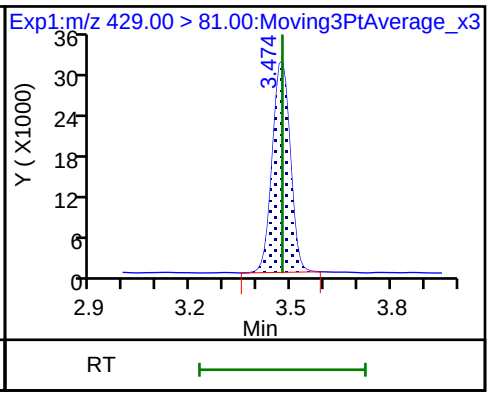
16 Perfluoroheptanesulfonic acid



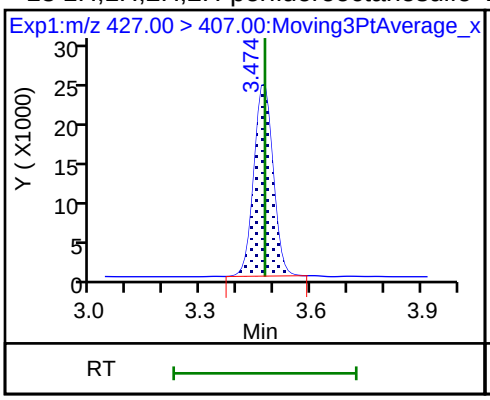
16 Perfluoroheptanesulfonic acid



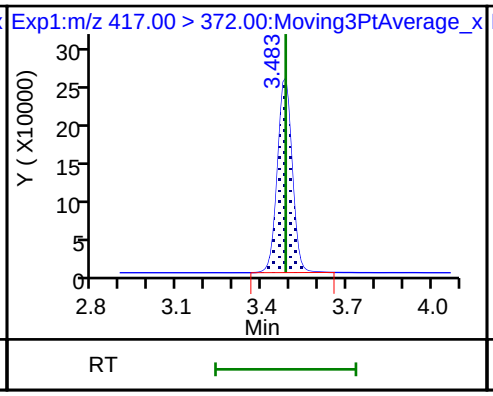
D 12 M2-6:2 FTS



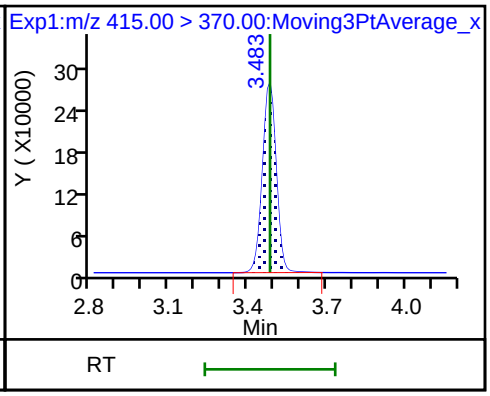
13 1H,1H,2H,2H-perfluorooctanesulfo



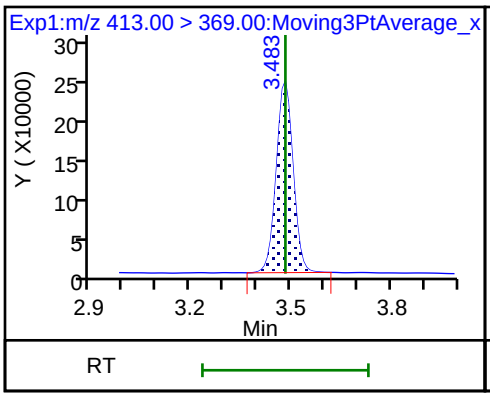
D 14 13C4 PFOA



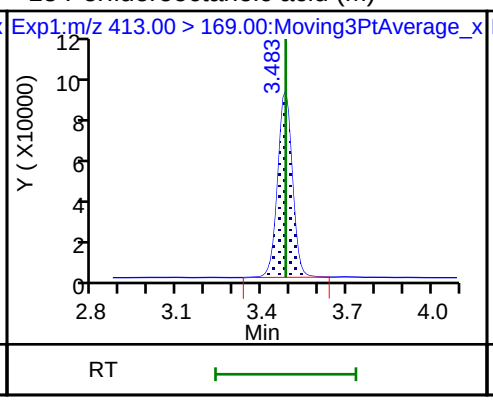
* 62 13C2 PFOA



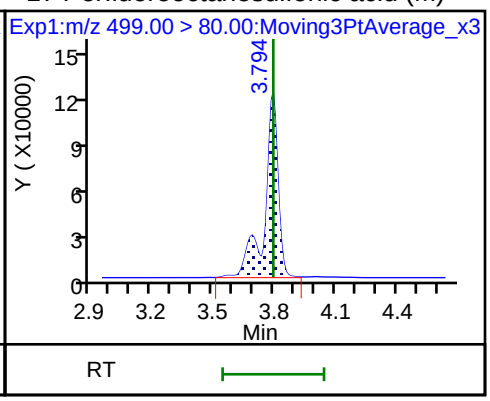
15 Perfluorooctanoic acid



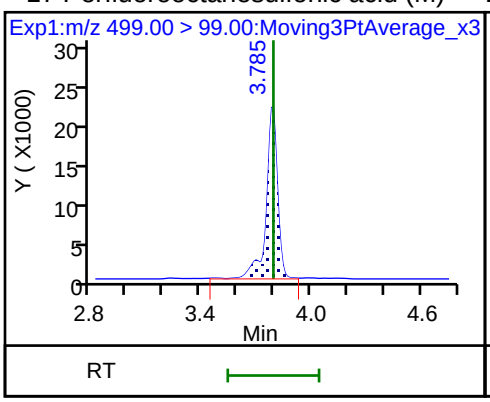
15 Perfluorooctanoic acid (M)



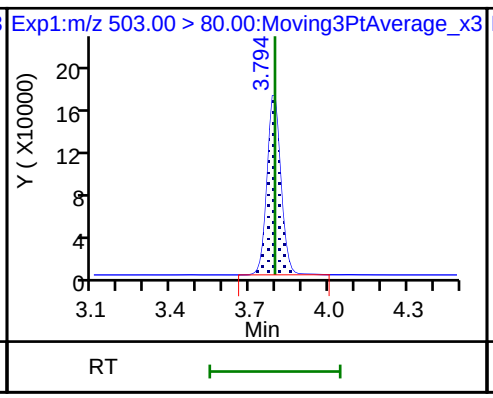
17 Perfluorooctanesulfonic acid (M)



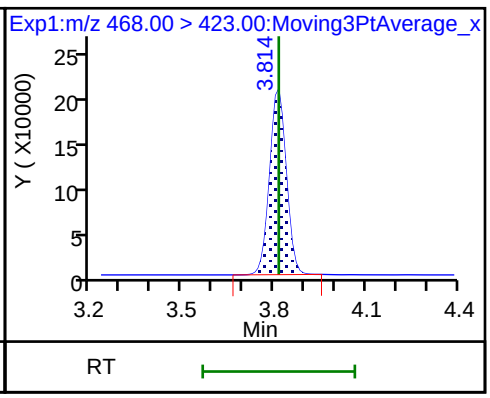
17 Perfluorooctanesulfonic acid (M)



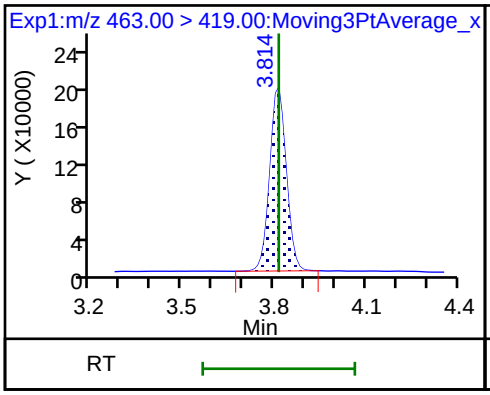
D 18 13C4 PFOS



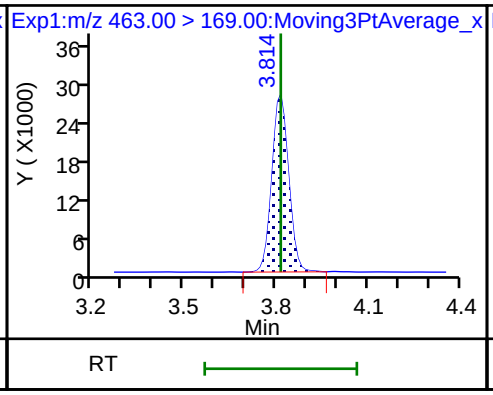
D 19 13C5 PFNA



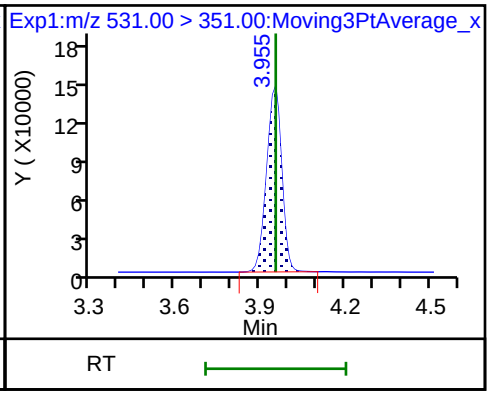
20 Perfluorononanoic acid



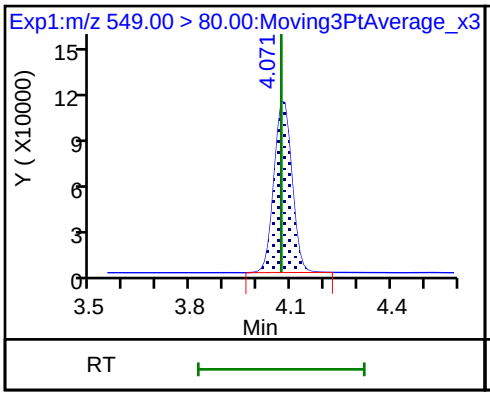
20 Perfluorononanoic acid



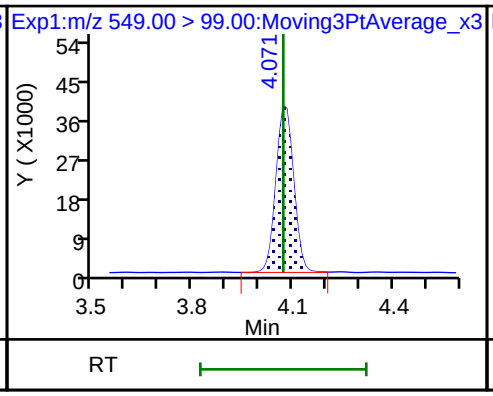
69 9-Chlorohexadecafluoro-3-oxanona (M)



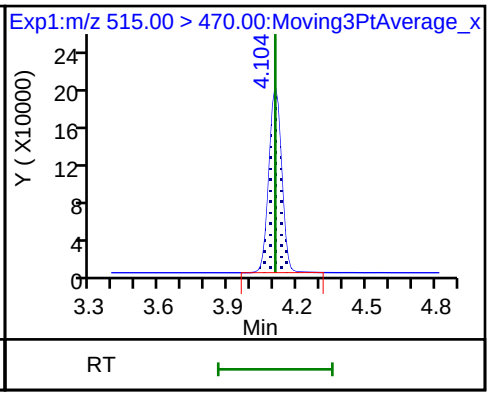
68 Perfluorononanesulfonic acid



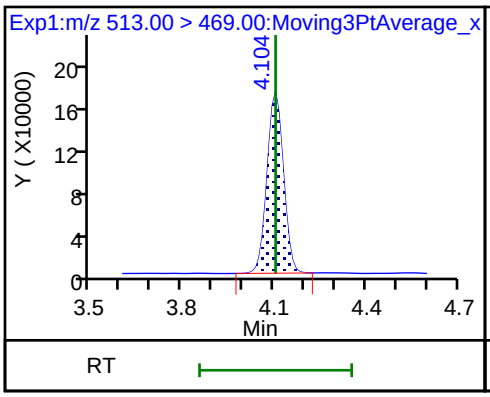
68 Perfluorononanesulfonic acid



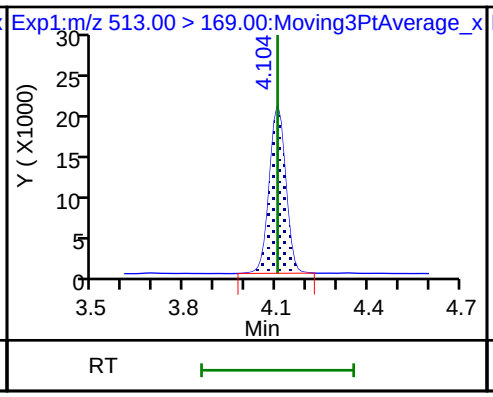
D 23 13C2 PFDA



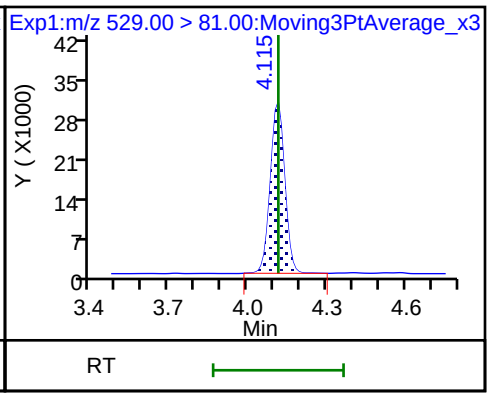
24 Perfluorodecanoic acid



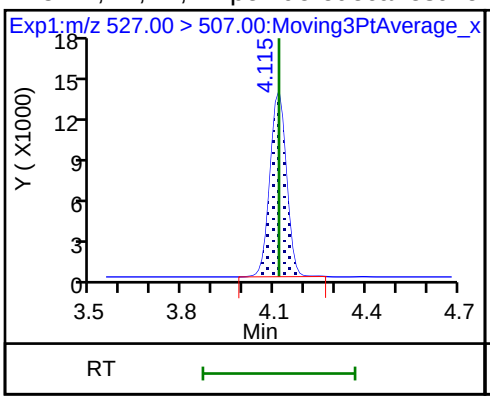
24 Perfluorodecanoic acid



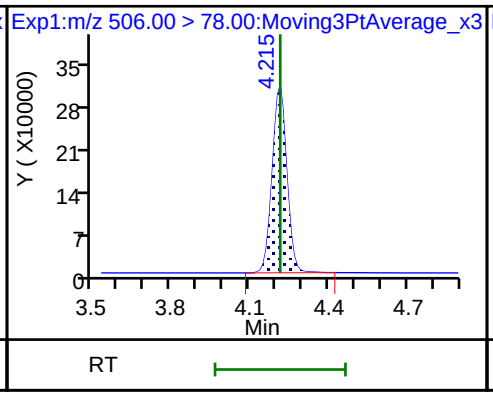
D 26 M2-8:2 FTS



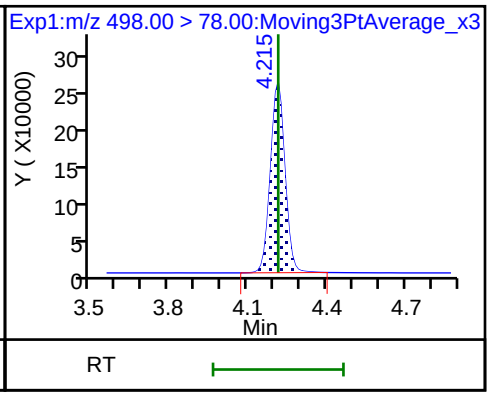
25 1H,1H,2H,2H-perfluorodecanesulfo



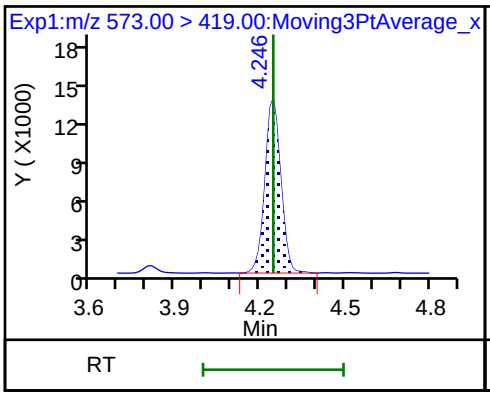
D 21 13C8 FOSA



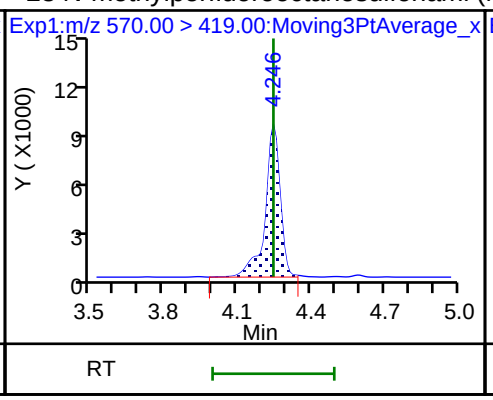
22 Perfluorooctanesulfonamide



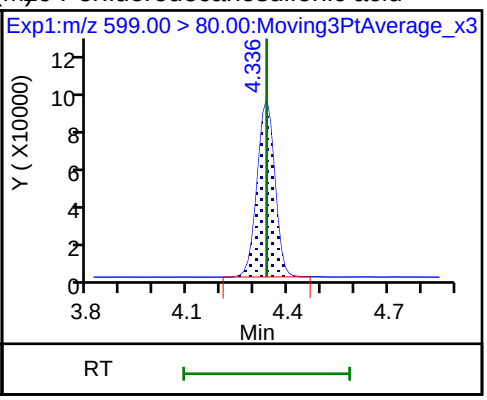
D 27 d3-NMeFOSAA



28 N-methylperfluorooctanesulfonami (M)



29 Perfluorodecanesulfonic acid



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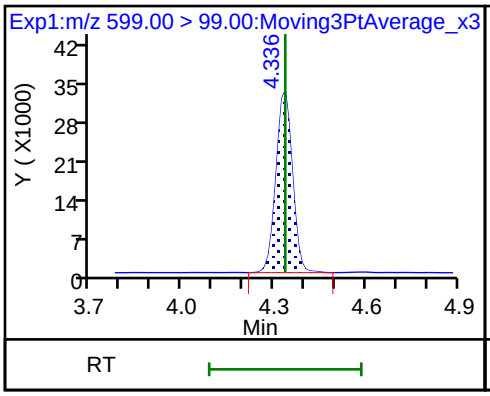
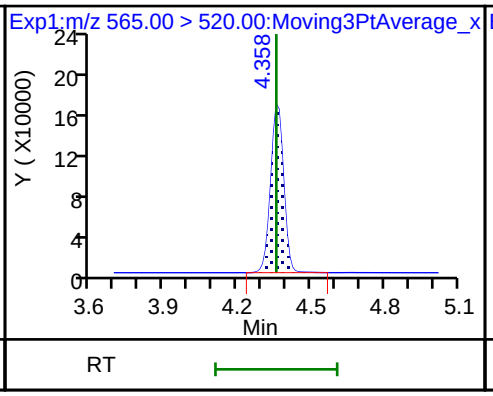
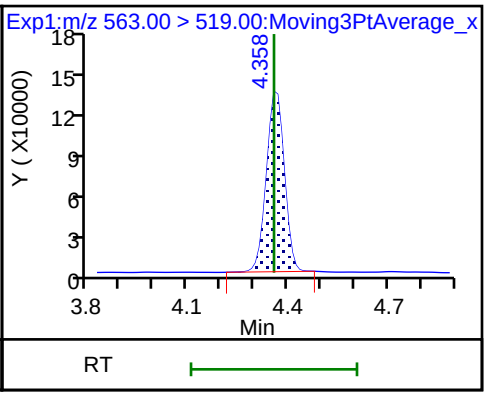


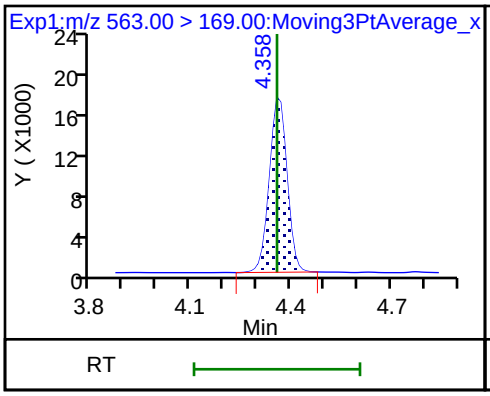
D 30 13C2 PFUnA



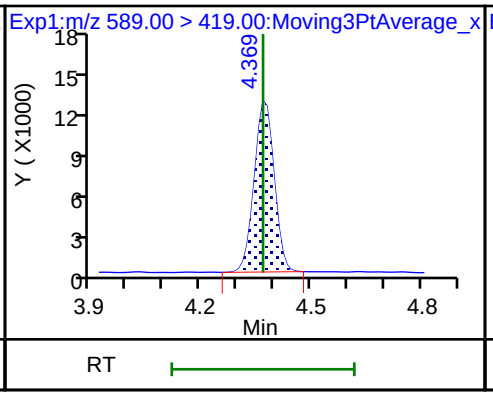
31 Perfluoroundecanoic acid



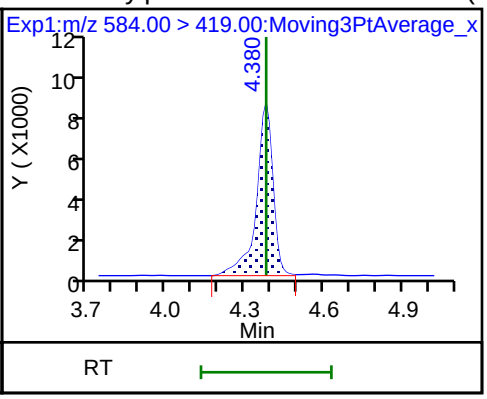
31 Perfluoroundecanoic acid



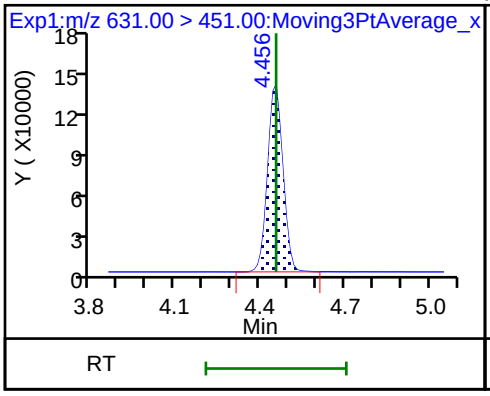
D 32 d5-NEtFOSAA



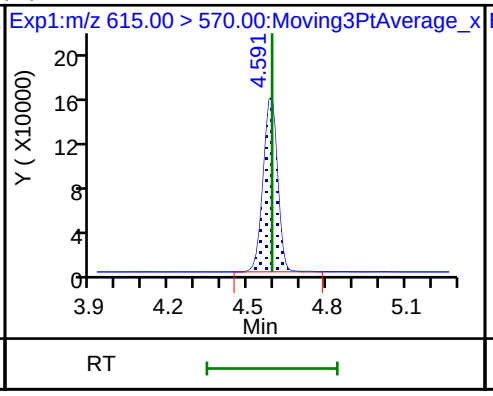
33 N-ethylperfluorooctanesulfonamid (M)



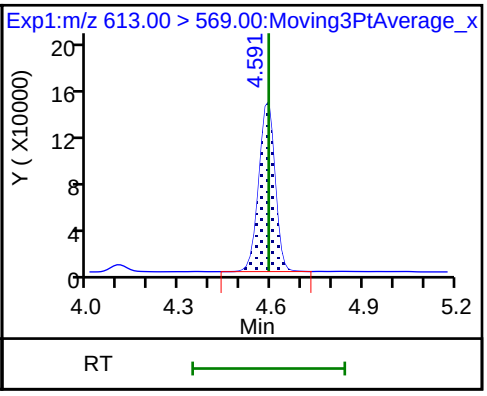
66 11-Chloroeicosafluoro-3-oxaundec (M)



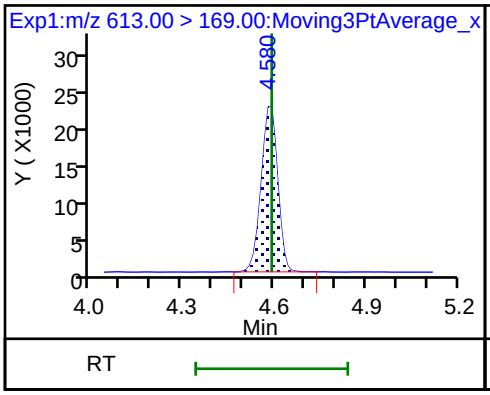
D 36 13C2 PFDoA



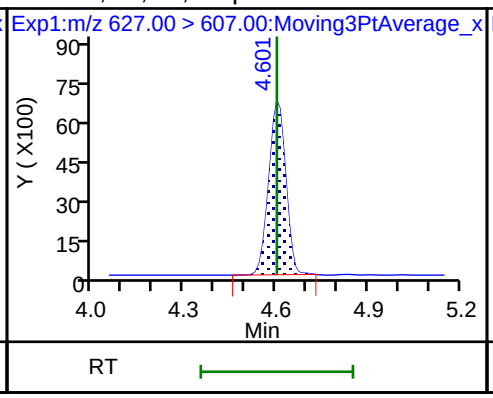
37 Perfluorododecanoic acid



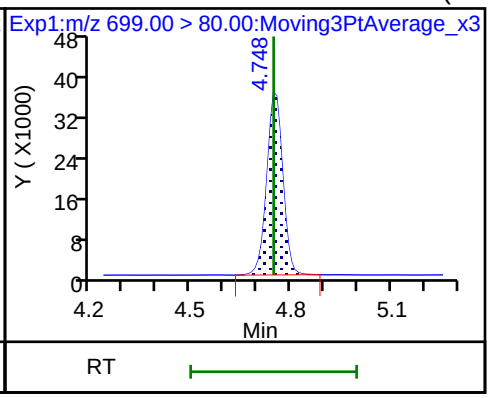
37 Perfluorododecanoic acid



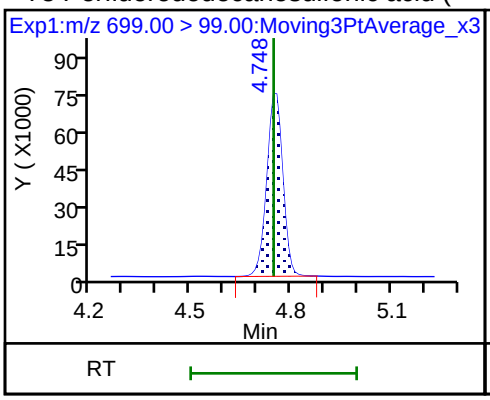
74 1H,1H,2H,2H-perfluorododecanesul



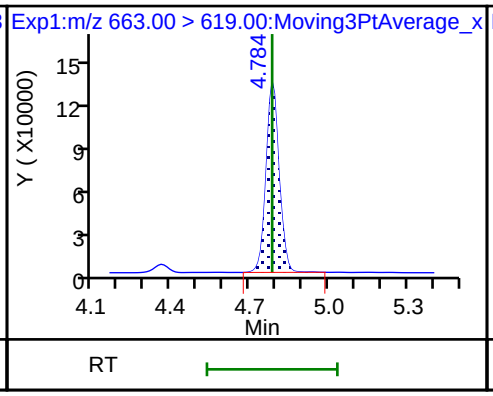
75 Perfluorododecanesulfonic acid (



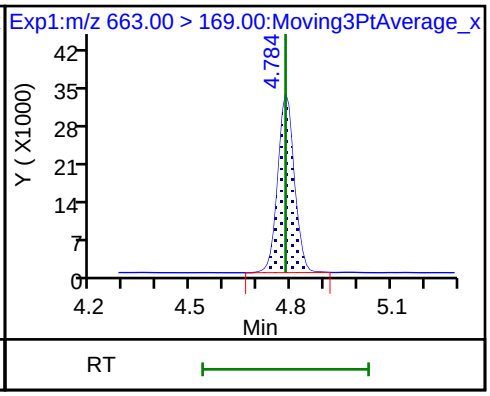
75 Perfluorododecanesulfonic acid (



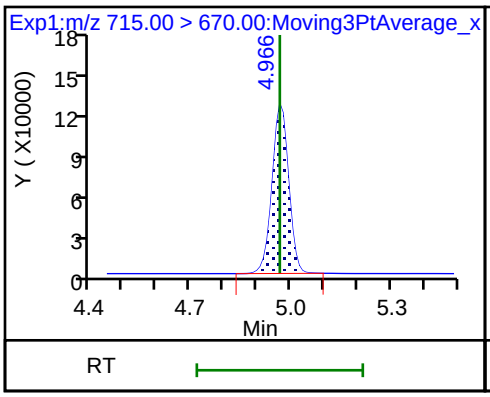
41 Perfluorotridecanoic acid



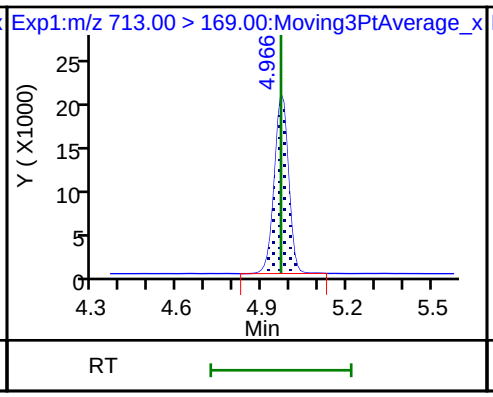
41 Perfluorotridecanoic acid



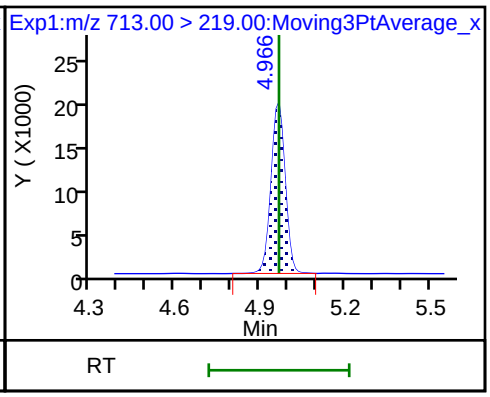
D 43 13C2 PFTeDA



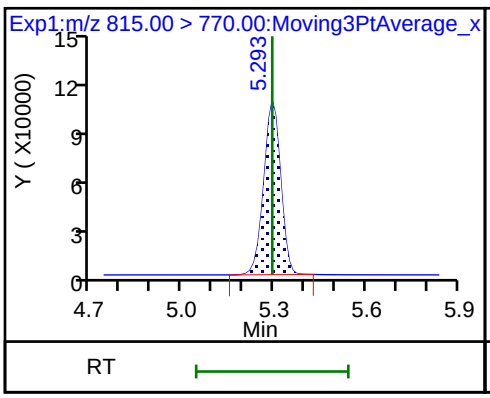
42 Perfluorotetradecanoic acid



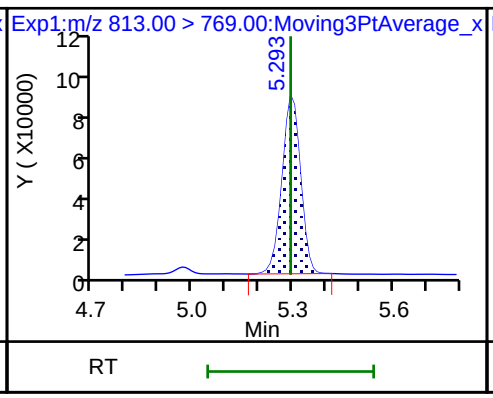
42 Perfluorotetradecanoic acid



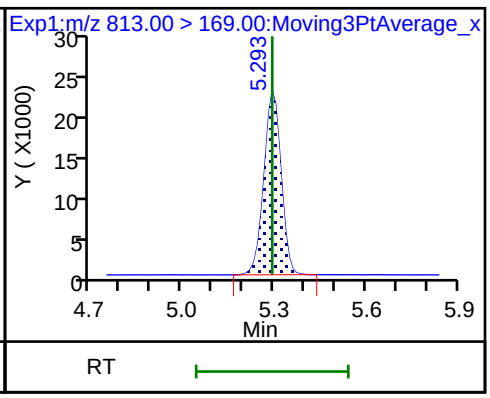
D 44 13C2 PFHxDA



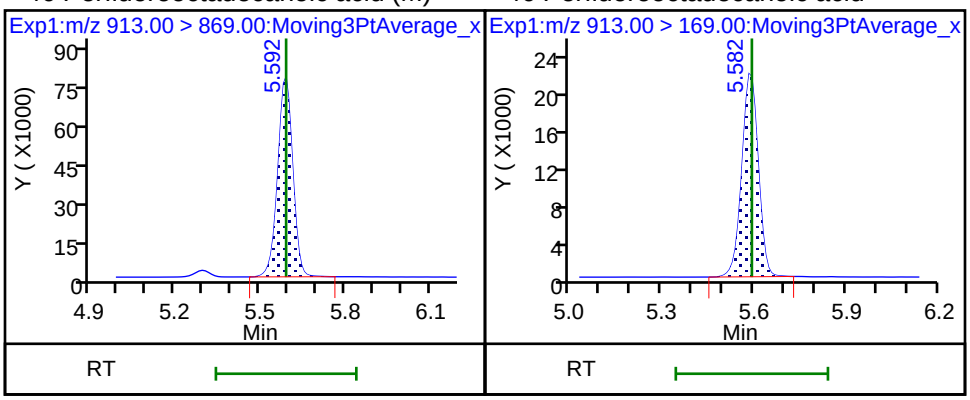
45 Perfluorohexadecanoic acid



45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid (M) 46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

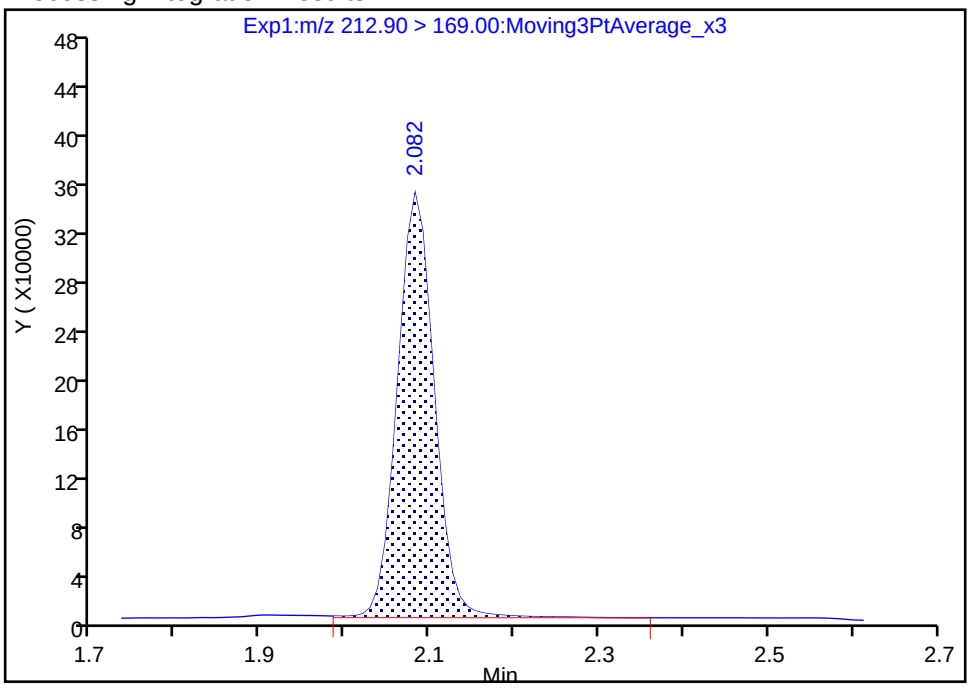
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A06.d				
Injection Date:	19-Feb-2021 14:01:06	Instrument ID:	LC812		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

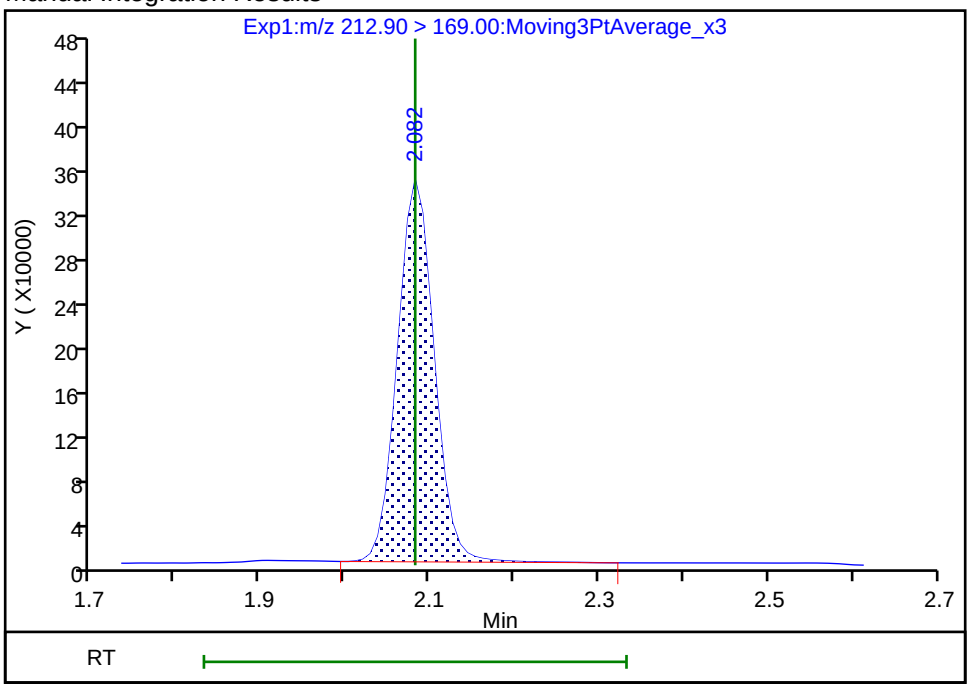
Processing Integration Results

RT: 2.08
Area: 1044332
Amount: 1.004575
Amount Units: ng/ml



Manual Integration Results

RT: 2.08
Area: 1031520
Amount: 0.992251
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 09:11:40

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

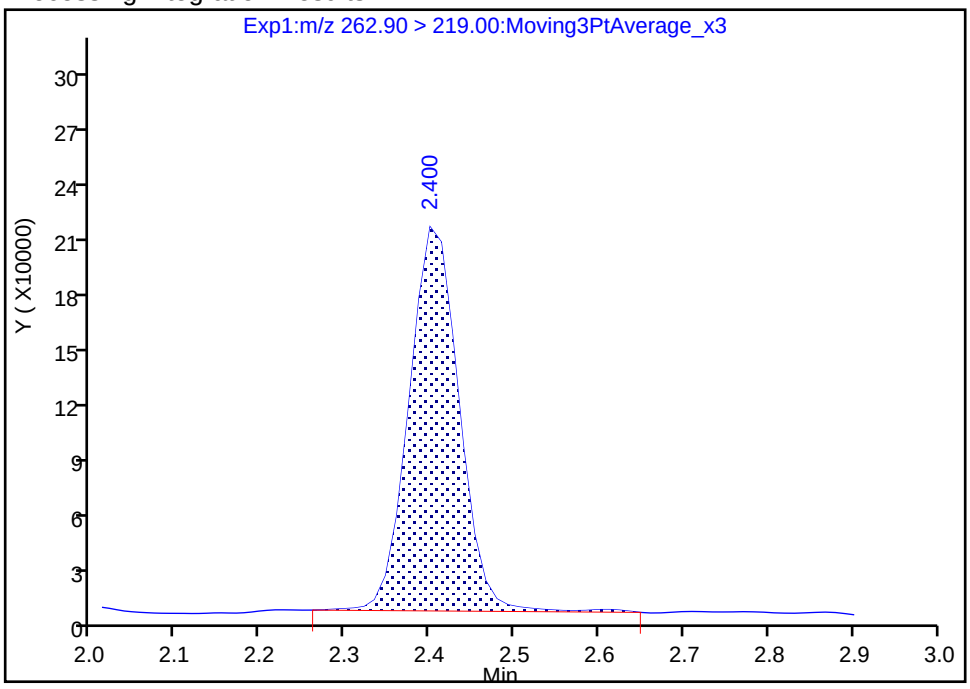
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A06.d				
Injection Date:	19-Feb-2021 14:01:06	Instrument ID:	LC812		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

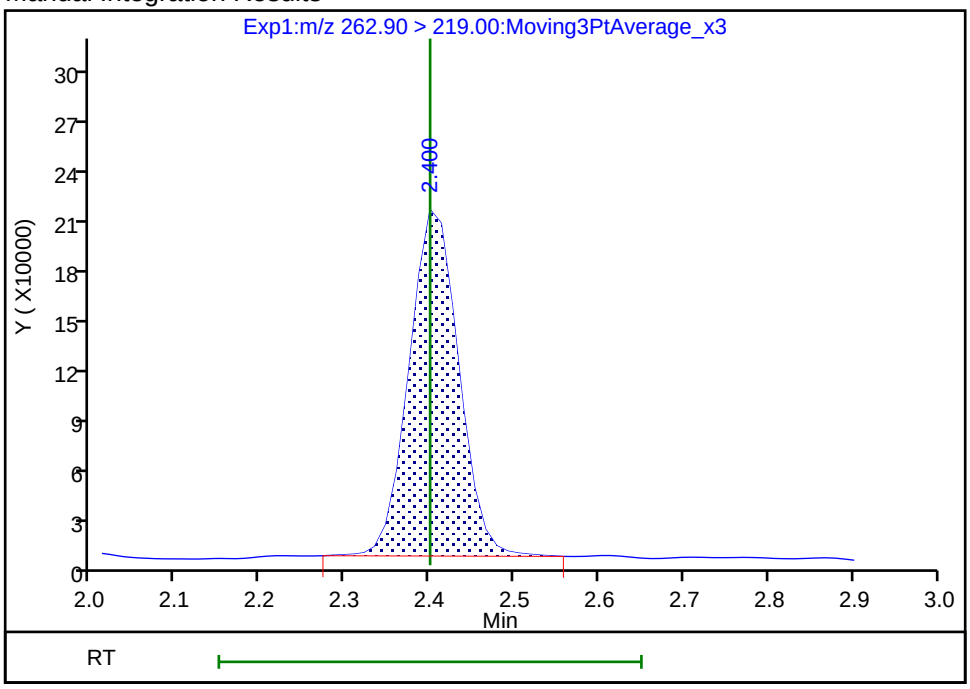
Processing Integration Results

RT: 2.40
Area: 846157
Amount: 0.985000
Amount Units: ng/ml



Manual Integration Results

RT: 2.40
Area: 834201
Amount: 0.971082
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 09:12:00

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

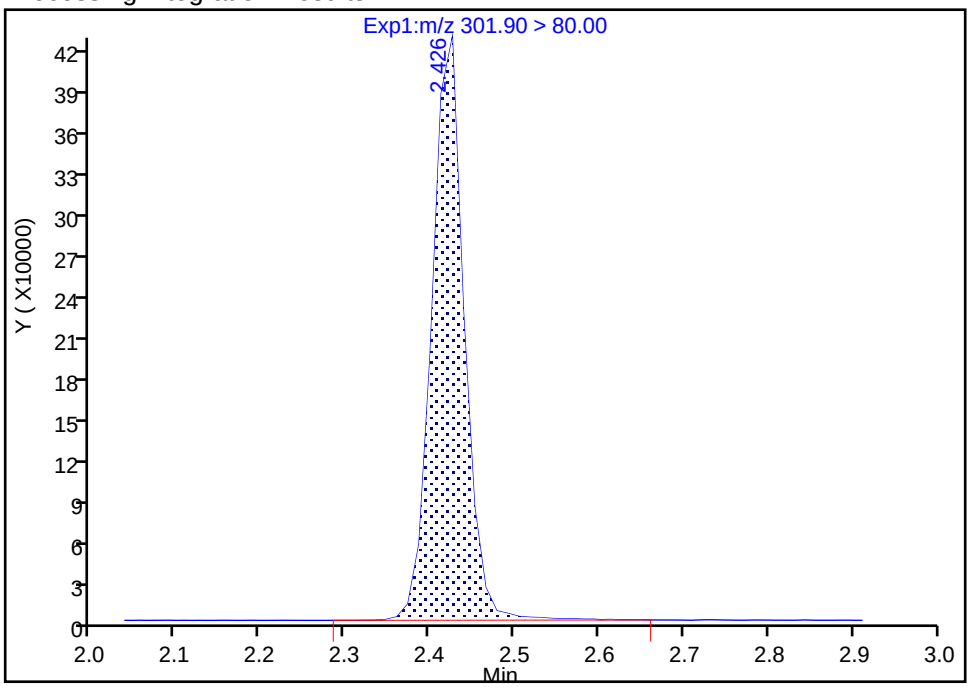
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A06.d				
Injection Date:	19-Feb-2021 14:01:06	Instrument ID:	LC812		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

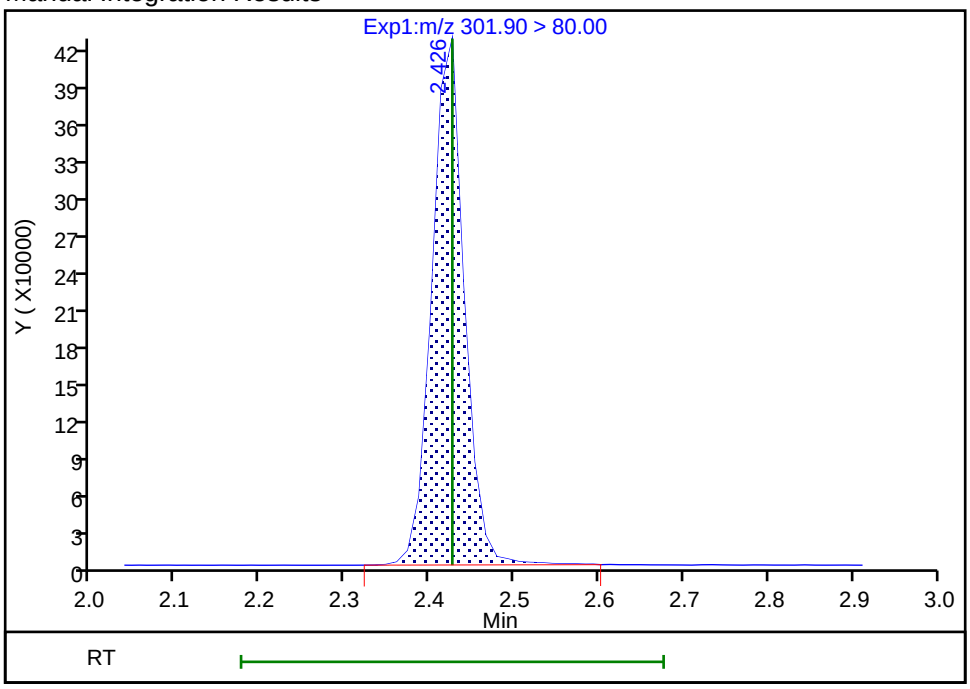
Processing Integration Results

RT: 2.43
Area: 1128481
Amount: 1.113075
Amount Units: ng/ml



Manual Integration Results

RT: 2.43
Area: 1125699
Amount: 1.110331
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 09:10:26

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

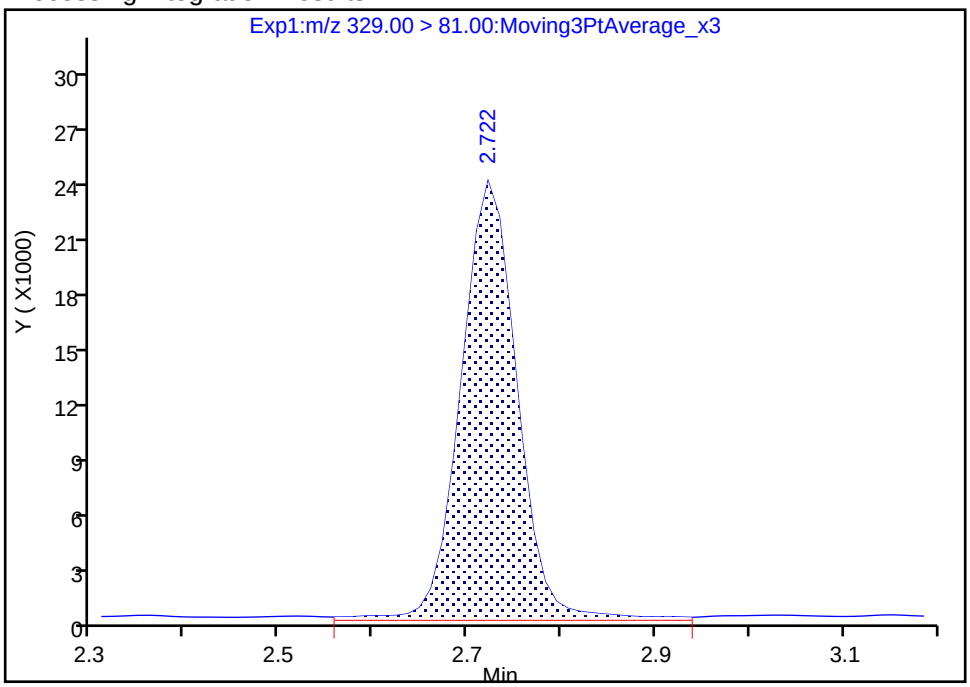
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A06.d				
Injection Date:	19-Feb-2021 14:01:06	Instrument ID:	LC812		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

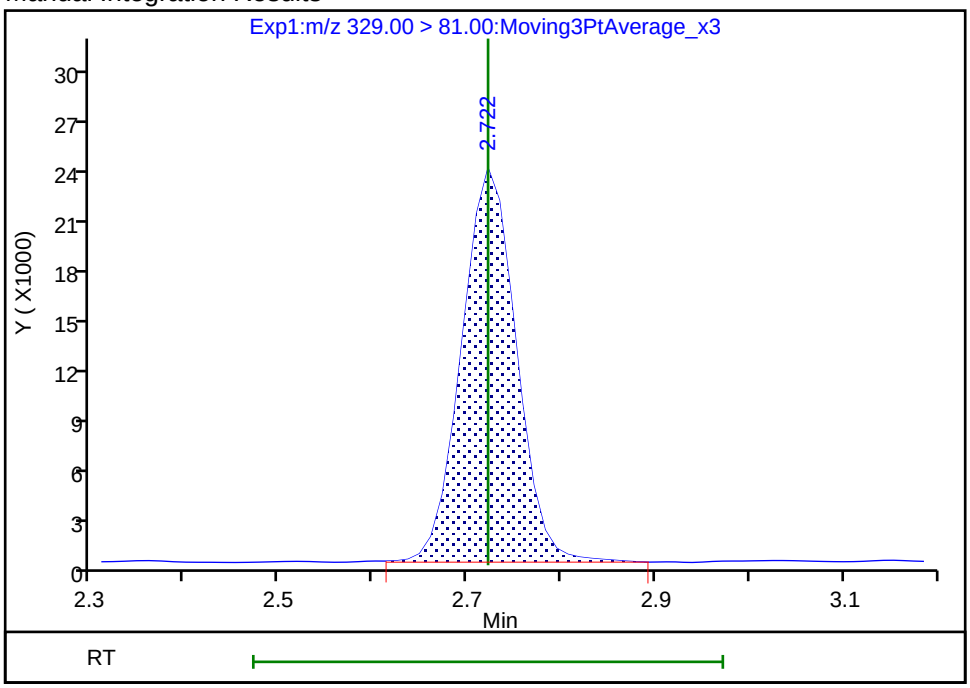
Processing Integration Results

RT: 2.72
Area: 99608
Amount: 1.177574
Amount Units: ng/ml



Manual Integration Results

RT: 2.72
Area: 95317
Amount: 1.126845
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 09:10:45

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

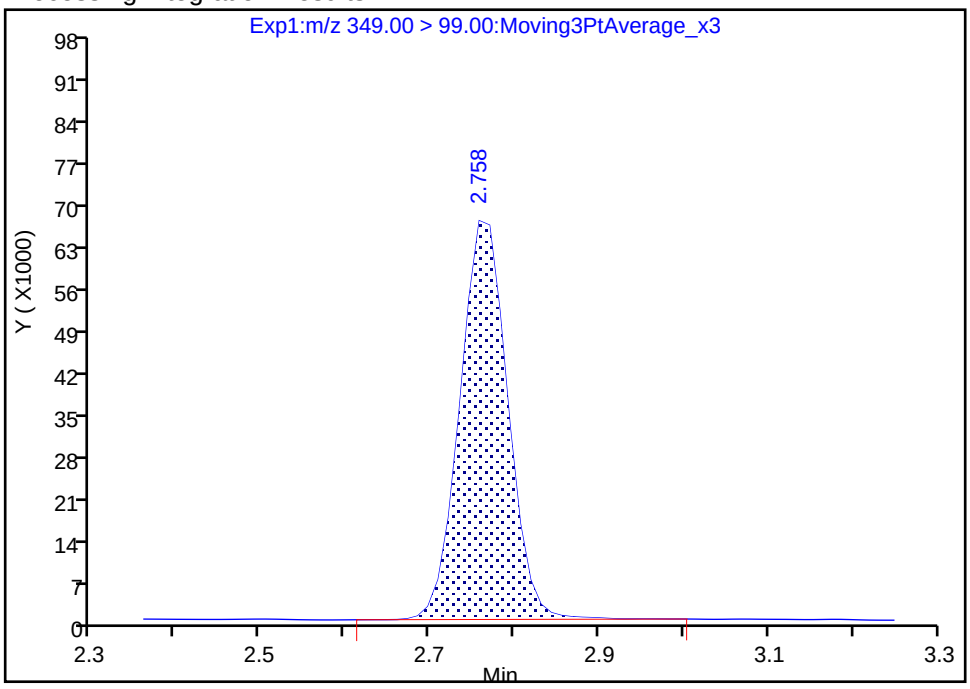
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A06.d				
Injection Date:	19-Feb-2021 14:01:06	Instrument ID:	LC812		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 2

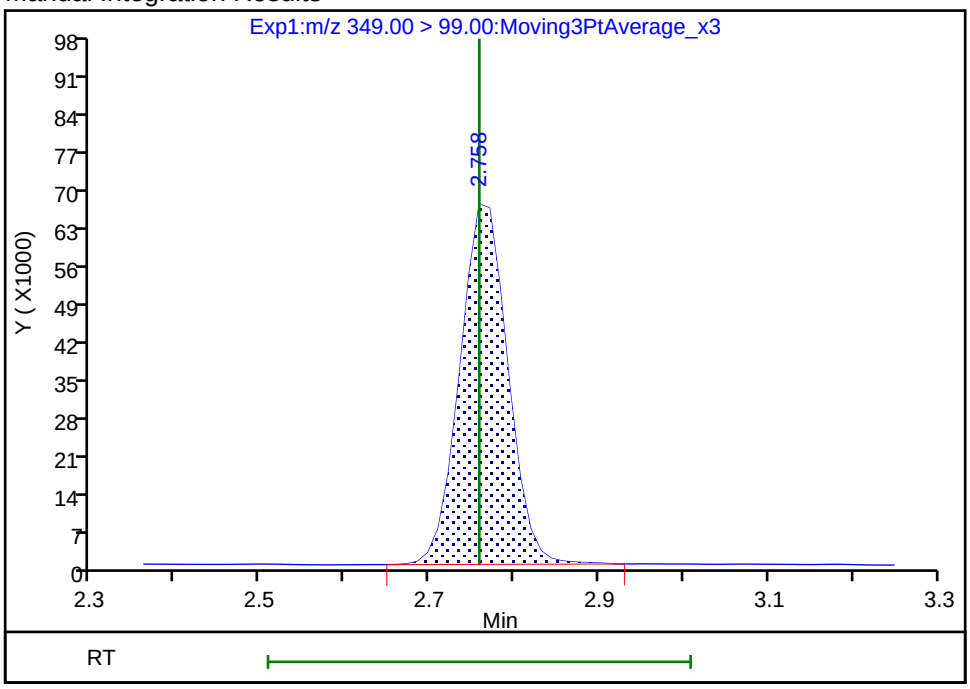
Processing Integration Results

RT: 2.76
Area: 262617
Amount: 0.901450
Amount Units: ng/ml



Manual Integration Results

RT: 2.76
Area: 262222
Amount: 0.901450
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 09:12:34

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

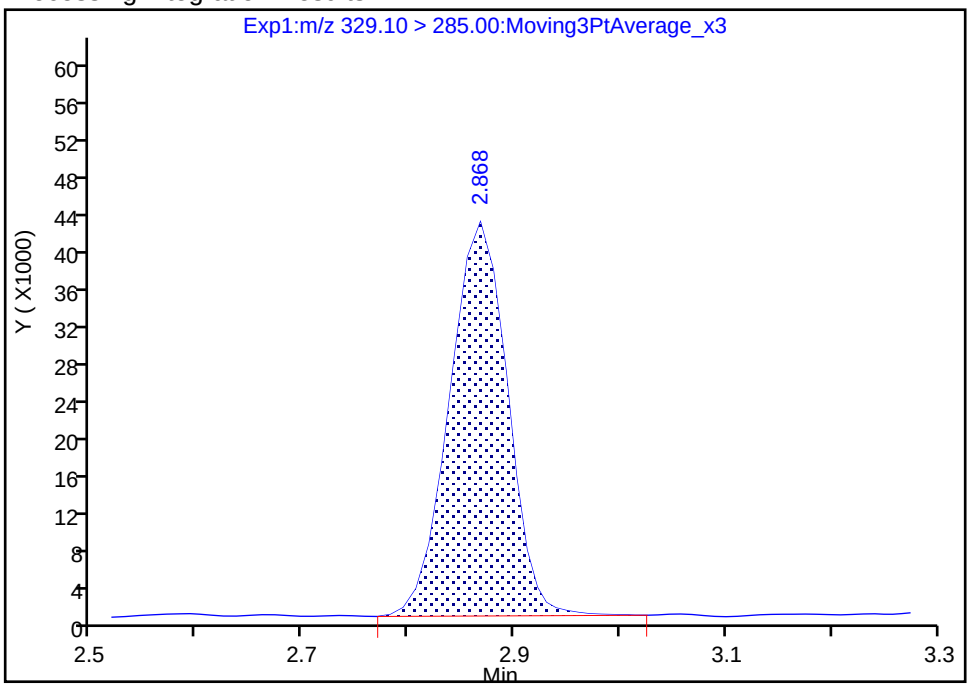
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A06.d				
Injection Date:	19-Feb-2021 14:01:06	Instrument ID:	LC812		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

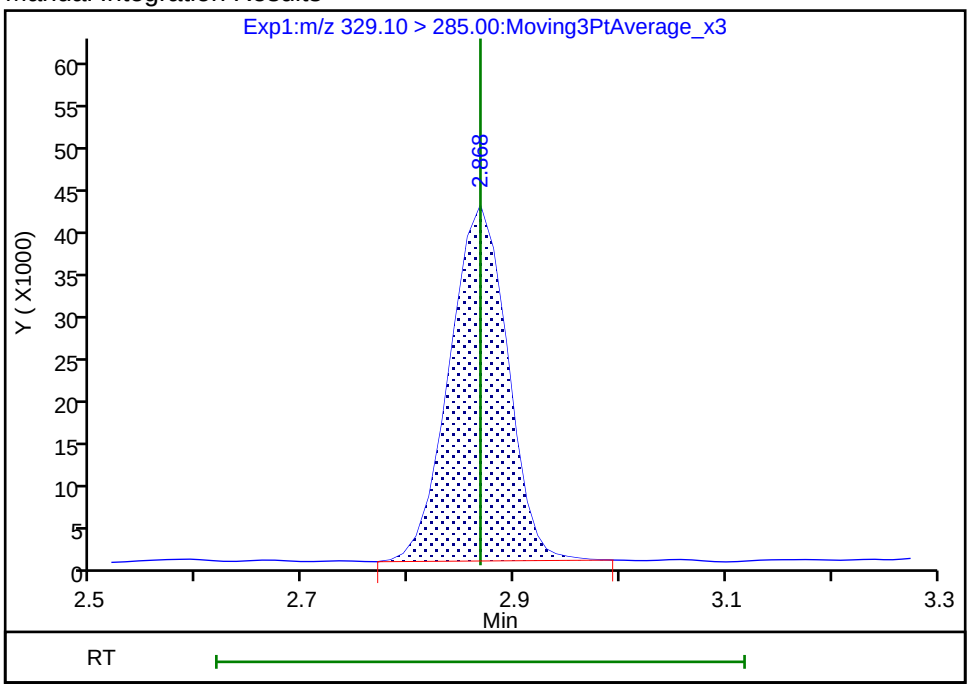
Processing Integration Results

RT: 2.87
Area: 159303
Amount: 1.374415
Amount Units: ng/ml



Manual Integration Results

RT: 2.87
Area: 158683
Amount: 1.369066
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 09:12:50

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

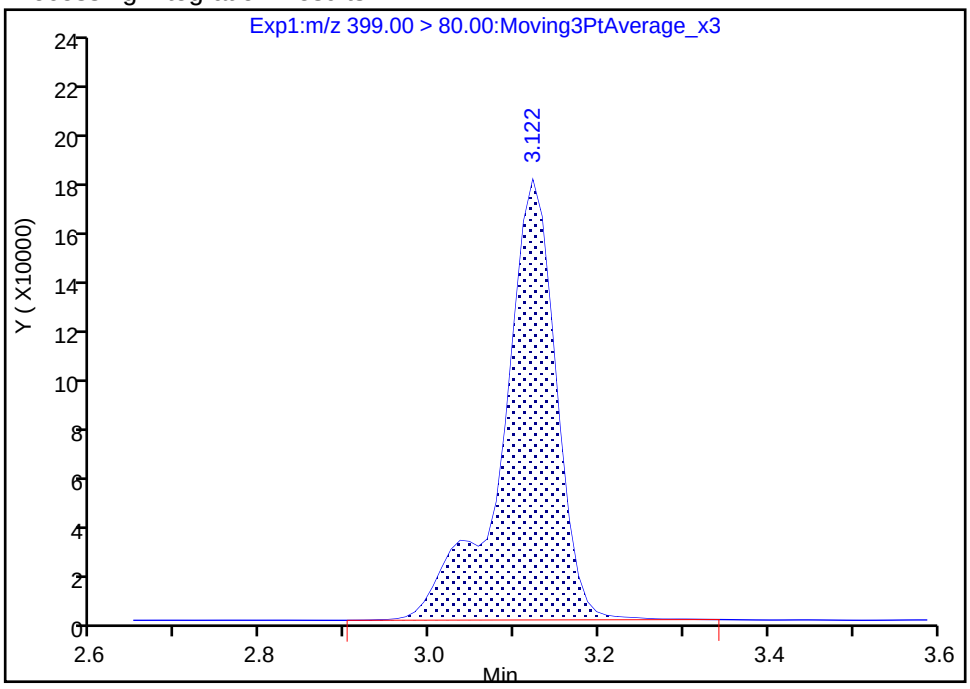
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A06.d				
Injection Date:	19-Feb-2021 14:01:06	Instrument ID:	LC812		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

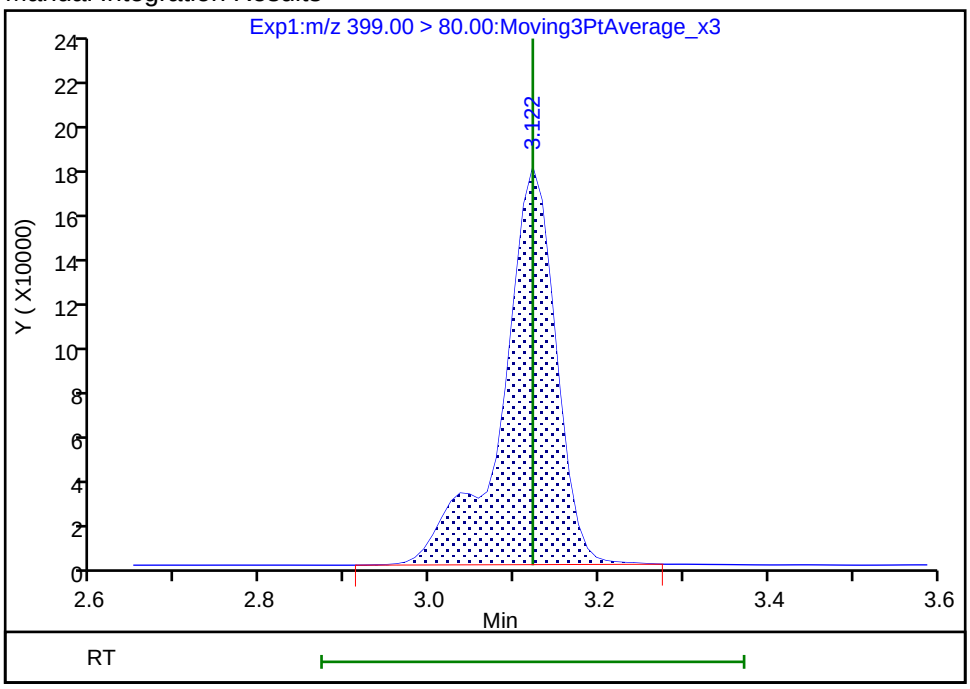
Processing Integration Results

RT: 3.12
Area: 787168
Amount: 0.893474
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 784826
Amount: 0.890816
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 09:13:01

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

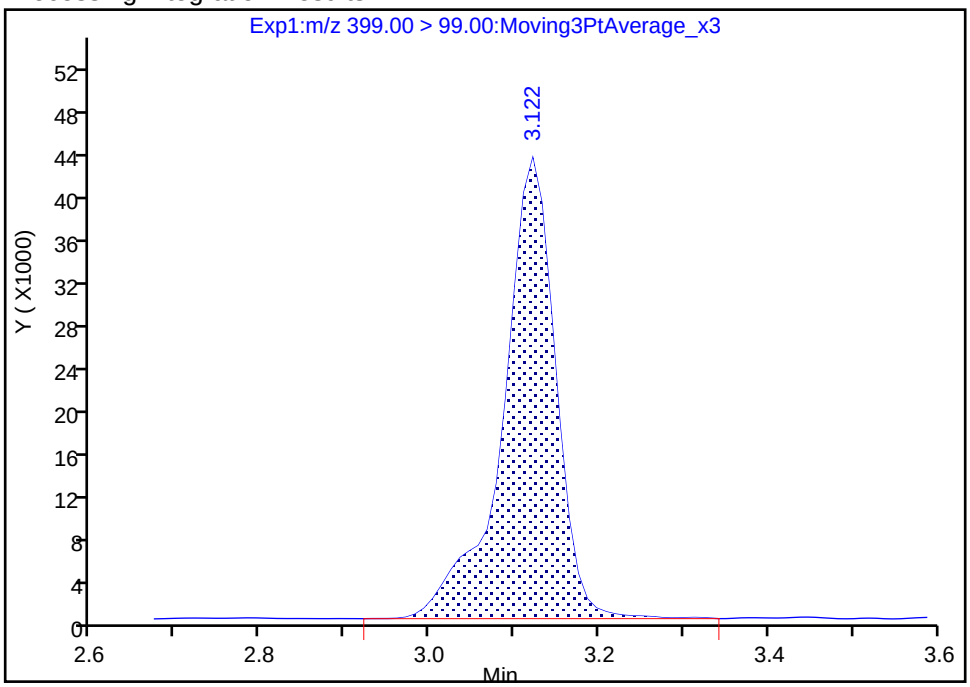
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A06.d				
Injection Date:	19-Feb-2021 14:01:06	Instrument ID:	LC812		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

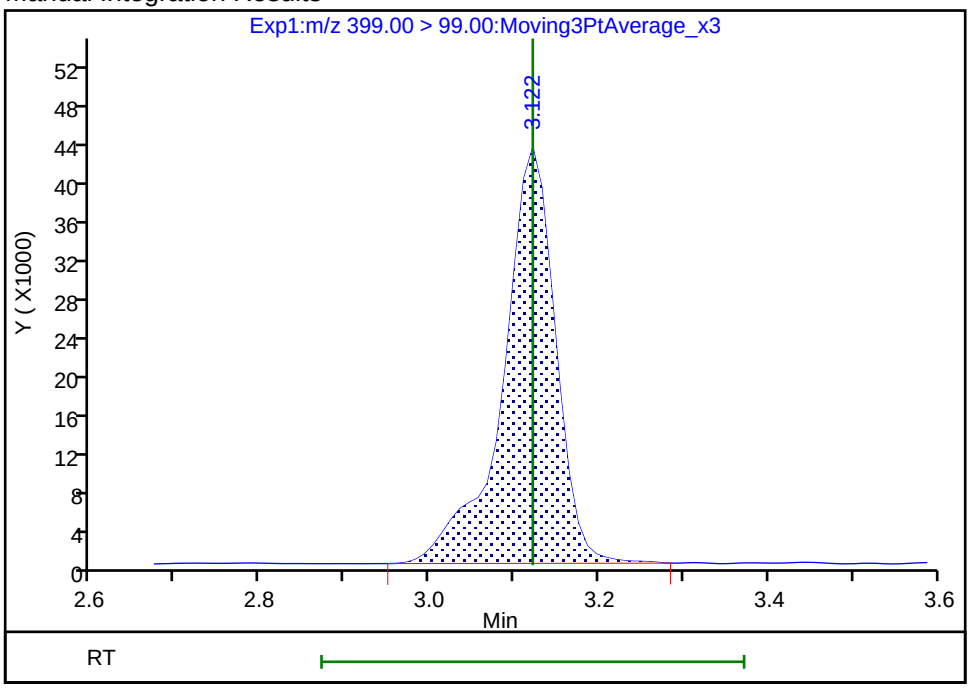
Processing Integration Results

RT: 3.12
Area: 185895
Amount: 0.893474
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 184935
Amount: 0.890816
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 09:13:10

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

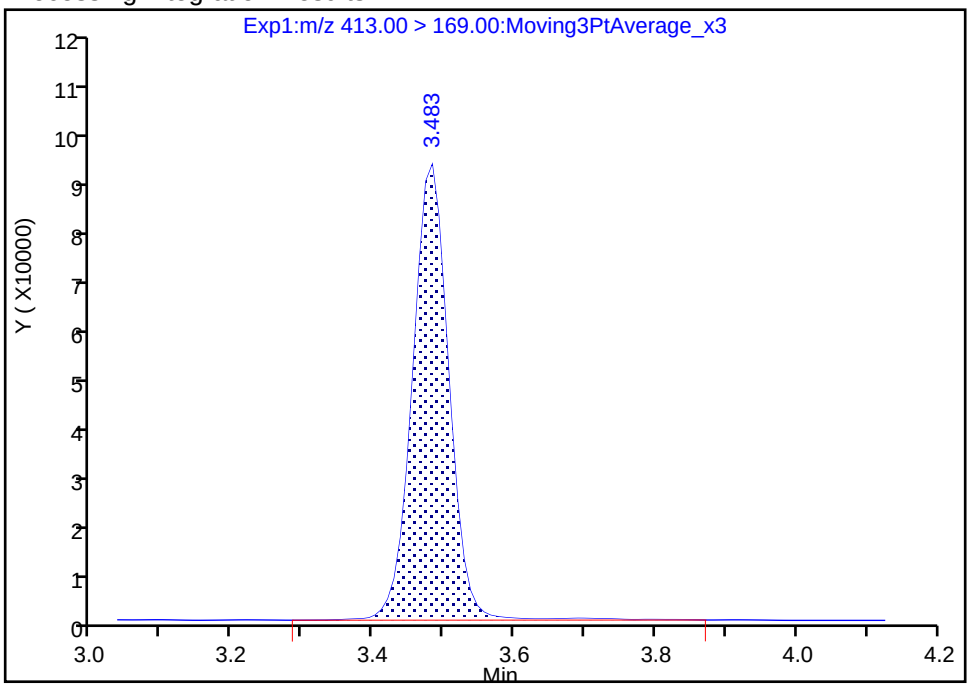
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A06.d		
Injection Date:	19-Feb-2021 14:01:06	Instrument ID:	LC812
Lims ID:	CCVIS		
Client ID:			
Operator ID:	lc812tech	ALS Bottle#:	3 Worklist Smp#: 6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

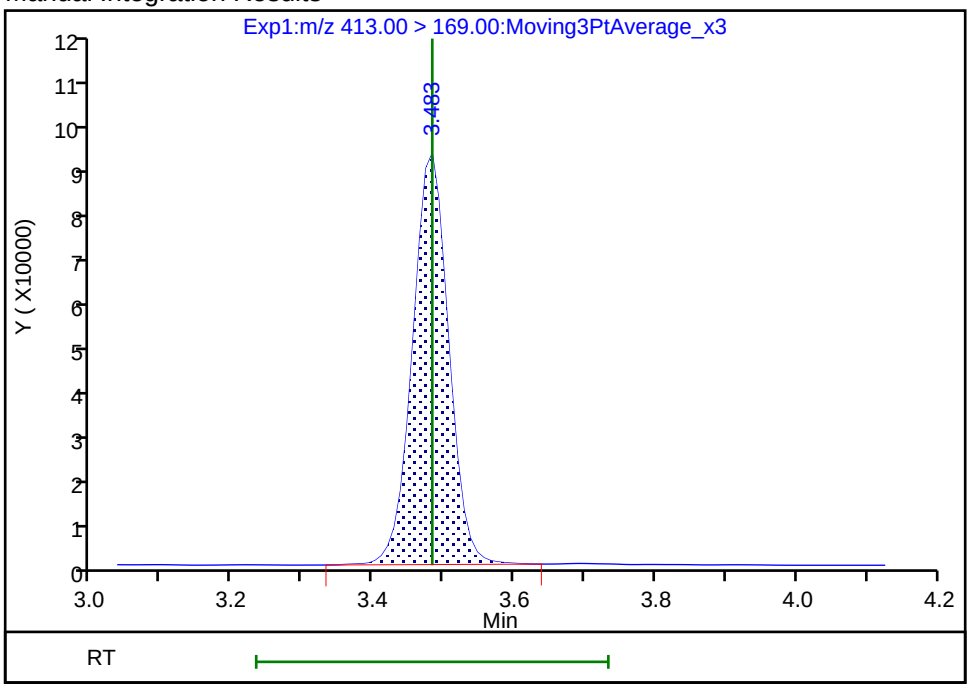
Processing Integration Results

RT: 3.48
Area: 335531
Amount: 1.053674
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 331075
Amount: 1.053674
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 09:13:31
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

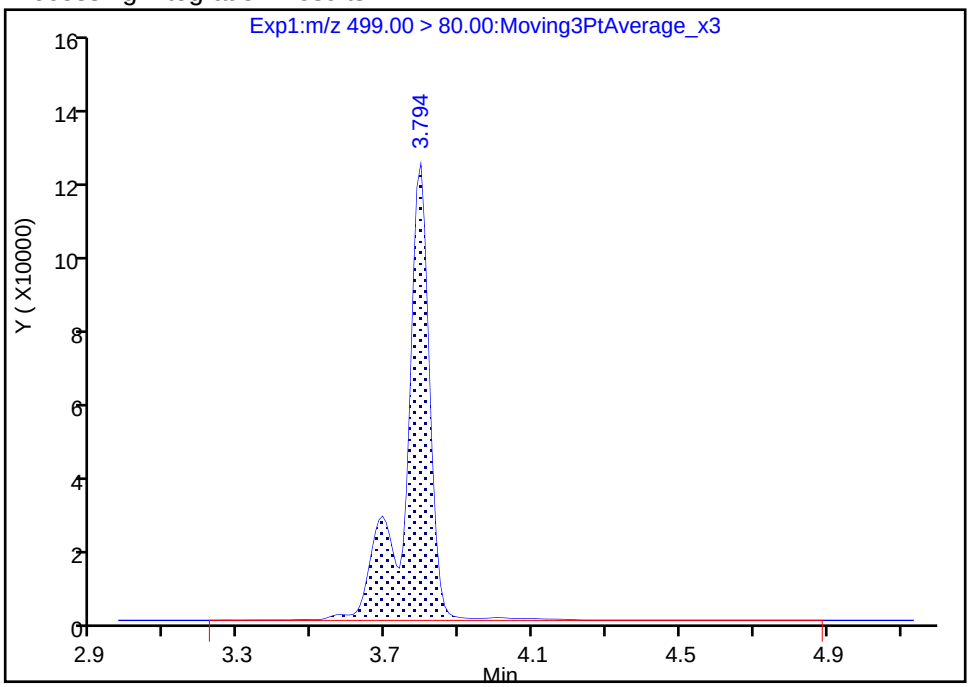
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A06.d				
Injection Date:	19-Feb-2021 14:01:06	Instrument ID:	LC812		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

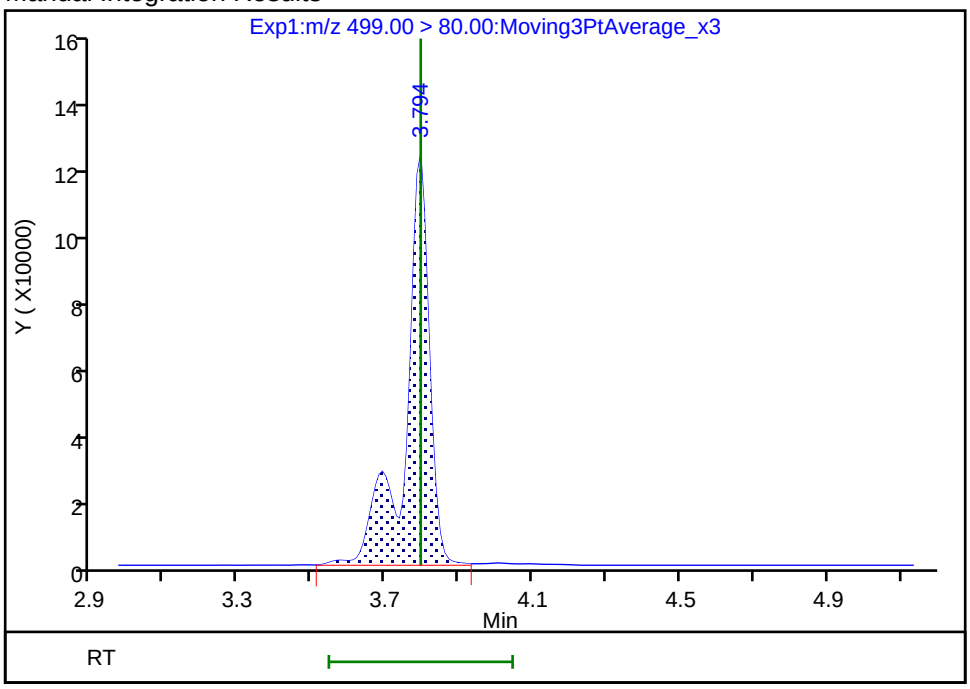
Processing Integration Results

RT: 3.79
Area: 567172
Amount: 0.966311
Amount Units: ng/ml



Manual Integration Results

RT: 3.79
Area: 559597
Amount: 0.953405
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 09:13:45
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

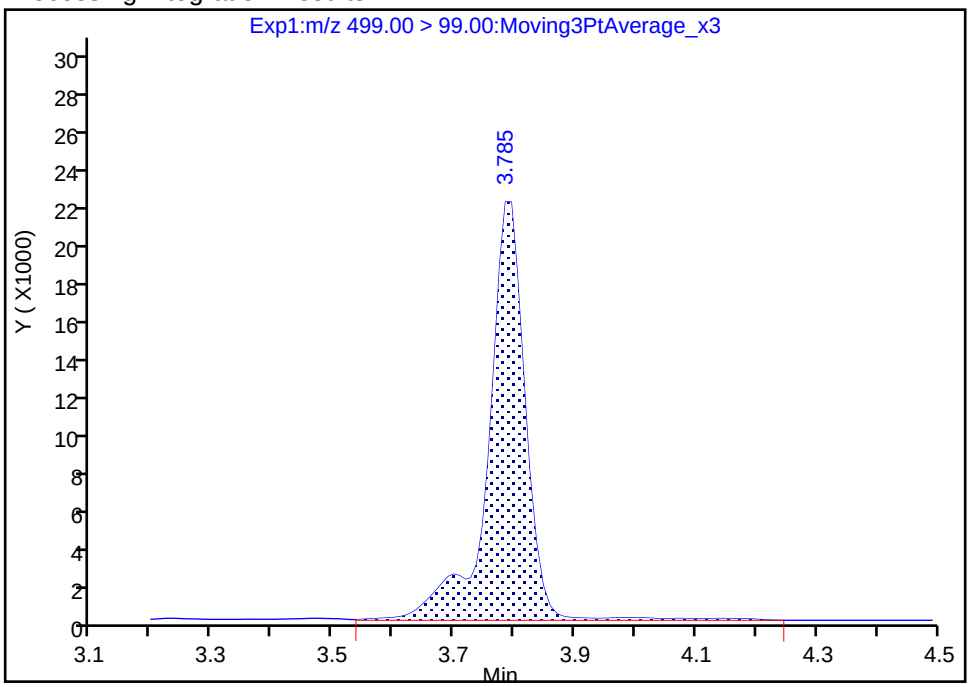
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A06.d				
Injection Date:	19-Feb-2021 14:01:06	Instrument ID:	LC812		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

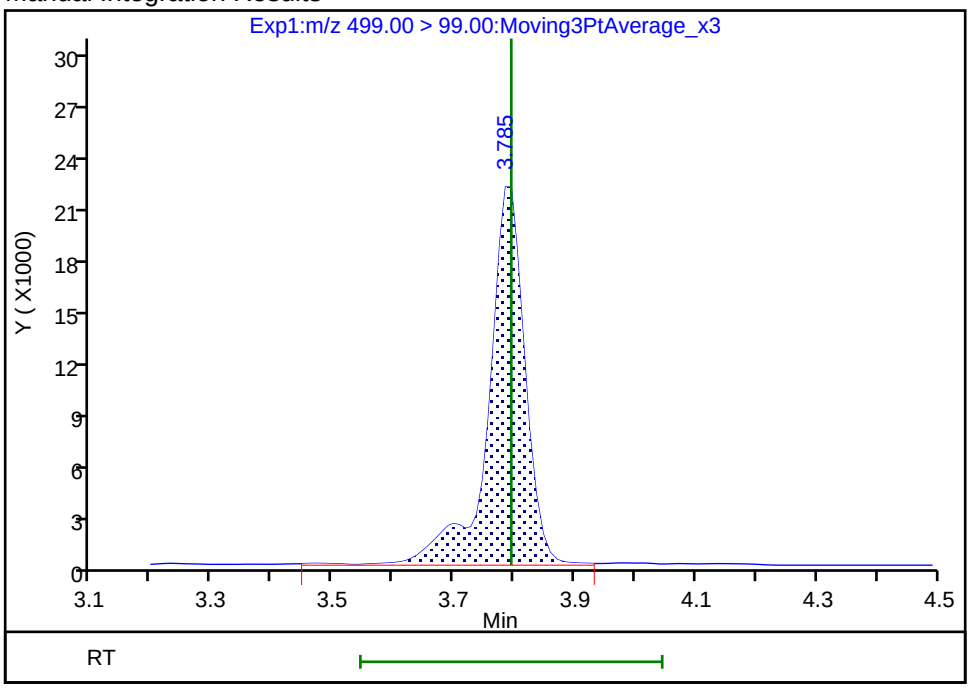
Processing Integration Results

RT: 3.78
Area: 94800
Amount: 0.966311
Amount Units: ng/ml



Manual Integration Results

RT: 3.78
Area: 93658
Amount: 0.953405
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 09:14:21

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

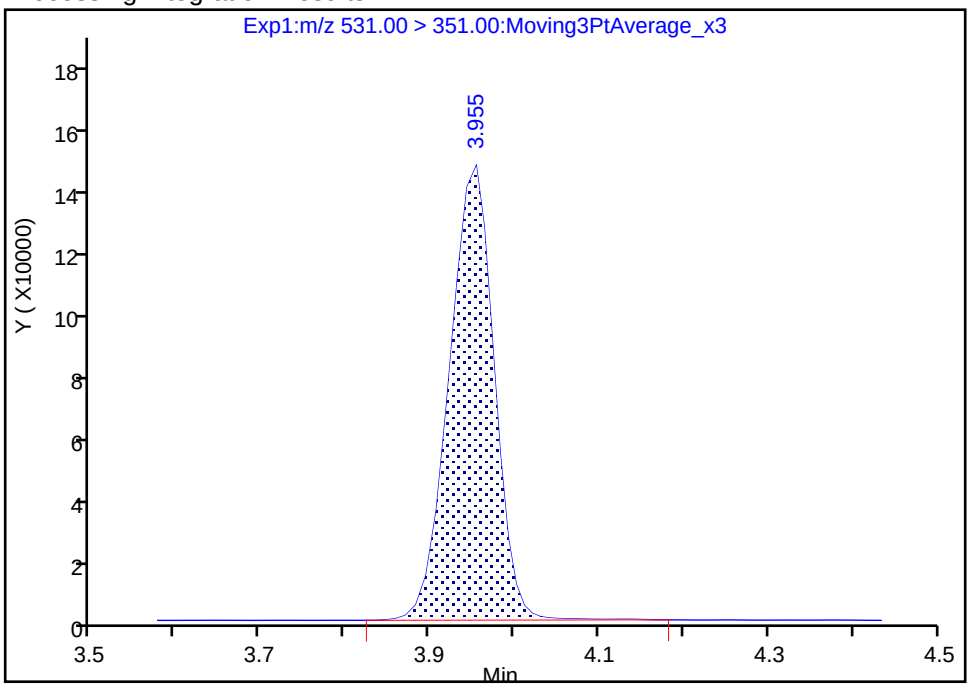
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A06.d
Injection Date: 19-Feb-2021 14:01:06 Instrument ID: LC812
Lims ID: CCVIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

69 9-Chlorohexadecafluoro-3-oxanona, CAS: 756426-58-1

Signal: 1

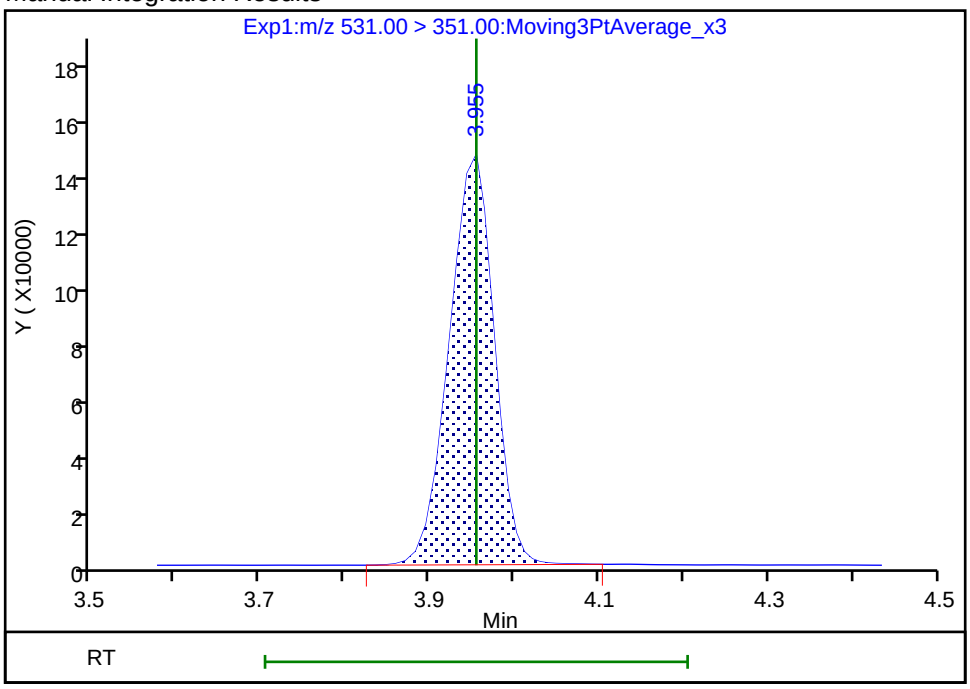
Processing Integration Results

RT: 3.95
Area: 539059
Amount: 0.823147
Amount Units: ng/ml



Manual Integration Results

RT: 3.95
Area: 536874
Amount: 0.819810
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 09:14:48
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

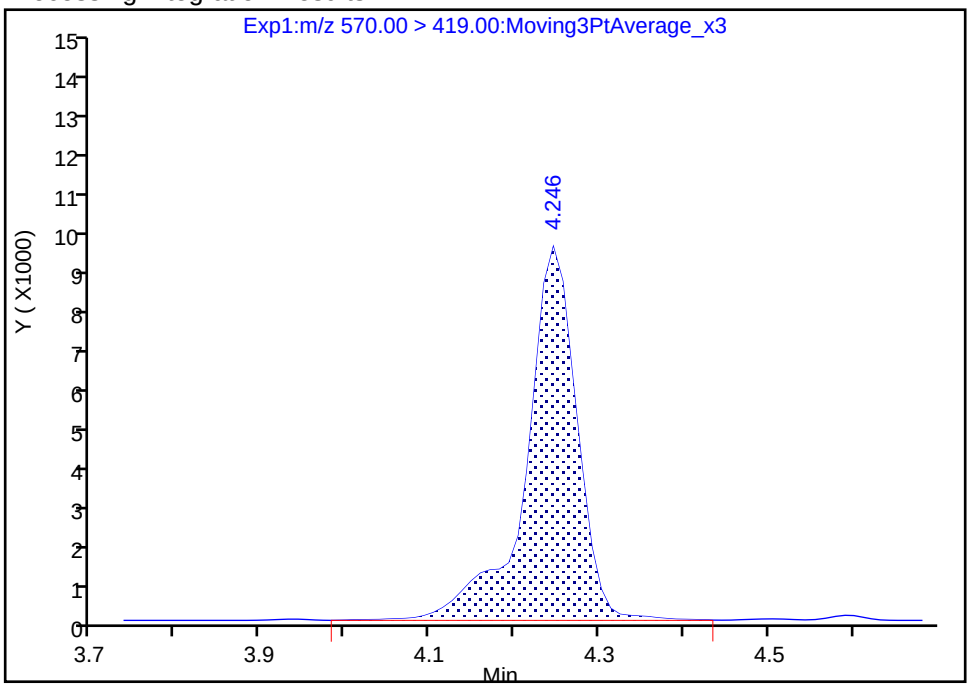
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A06.d				
Injection Date:	19-Feb-2021 14:01:06	Instrument ID:	LC812		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

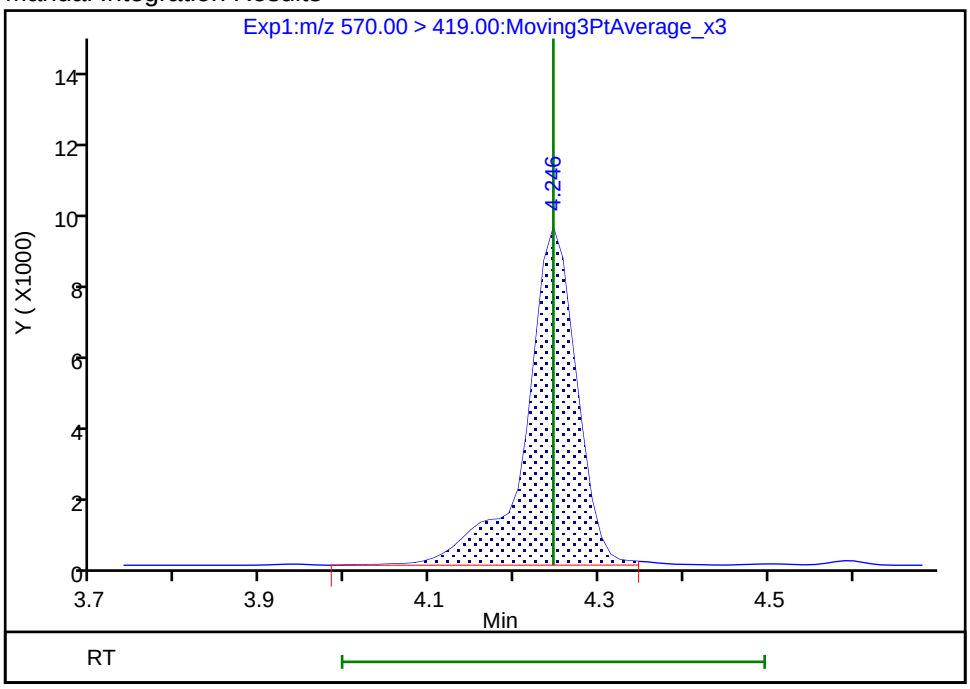
Processing Integration Results

RT: 4.25
Area: 40104
Amount: 1.052159
Amount Units: ng/ml



Manual Integration Results

RT: 4.25
Area: 39819
Amount: 1.044682
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 09:15:24

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

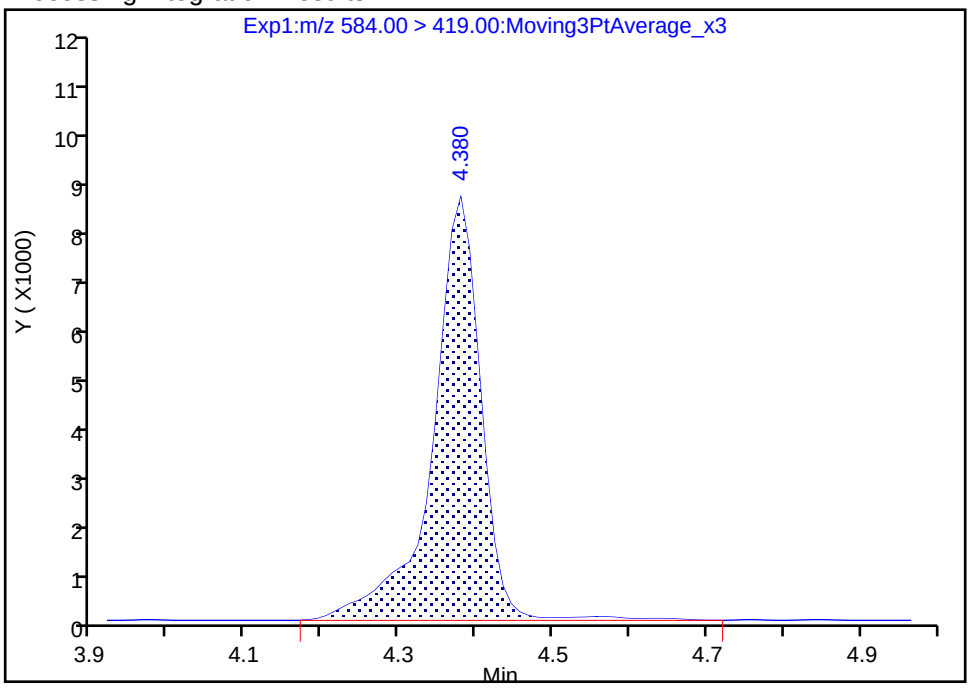
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A06.d				
Injection Date:	19-Feb-2021 14:01:06	Instrument ID:	LC812		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

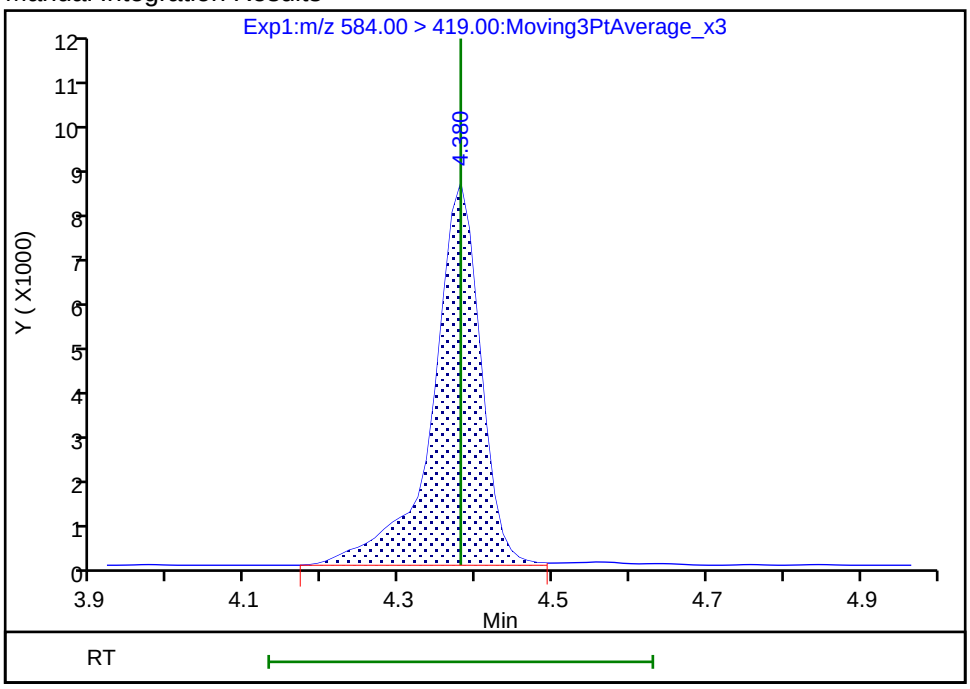
Processing Integration Results

RT: 4.38
Area: 37158
Amount: 1.080206
Amount Units: ng/ml



Manual Integration Results

RT: 4.38
Area: 36640
Amount: 1.065147
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 09:15:46
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

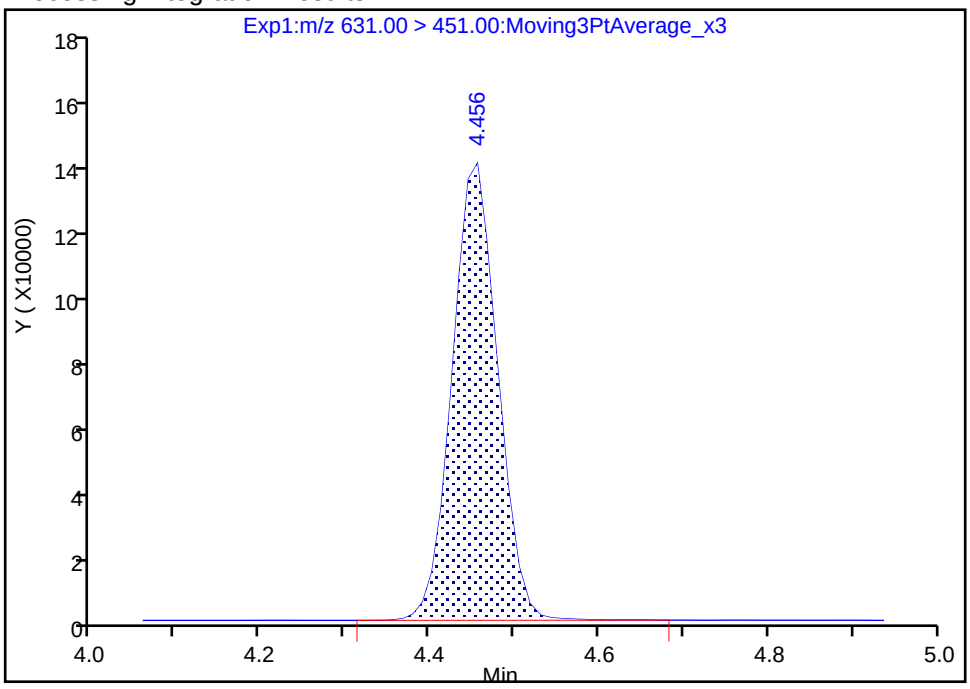
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A06.d				
Injection Date:	19-Feb-2021 14:01:06	Instrument ID:	LC812		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

66 11-Chloroeicosafluoro-3-oxaundec, CAS: 763051-92-9

Signal: 1

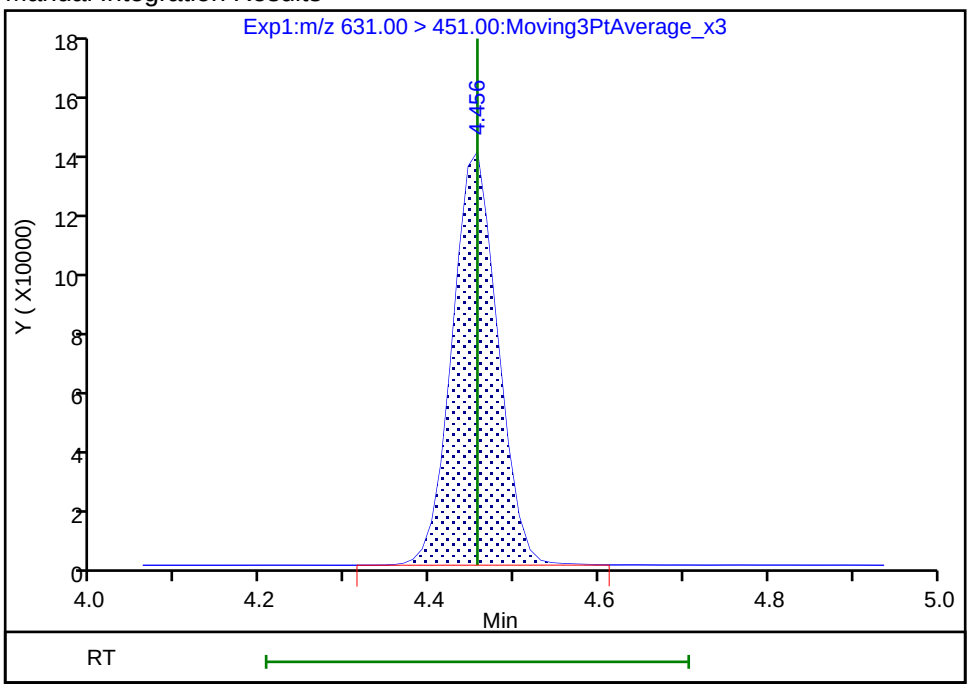
Processing Integration Results

RT: 4.46
Area: 521447
Amount: 0.767397
Amount Units: ng/ml



Manual Integration Results

RT: 4.46
Area: 521296
Amount: 0.767175
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 09:16:00

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

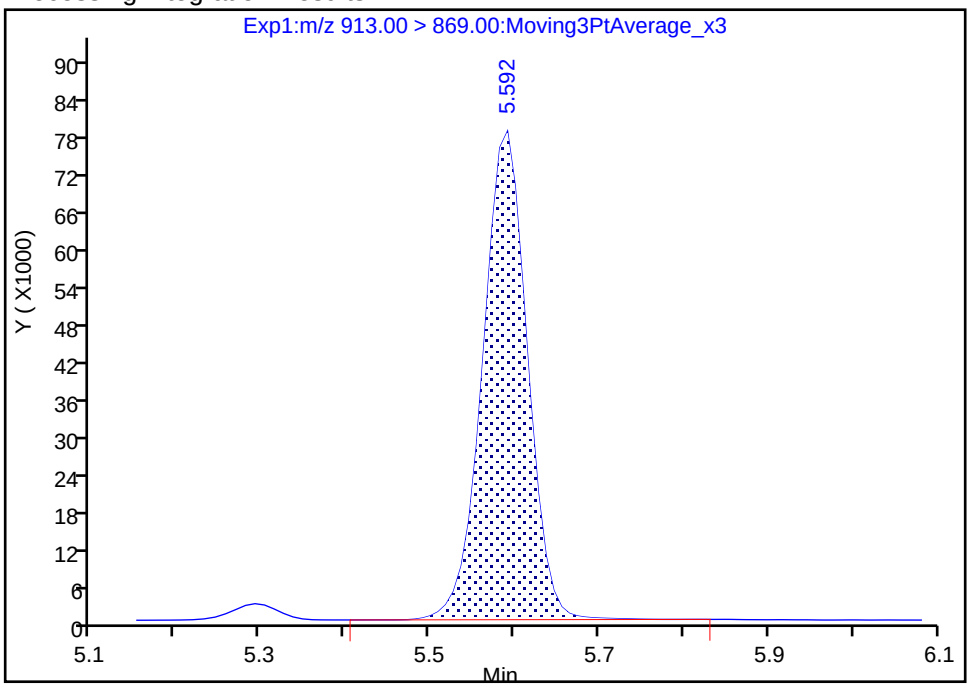
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44895.b\PA210219A06.d				
Injection Date:	19-Feb-2021 14:01:06	Instrument ID:	LC812		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

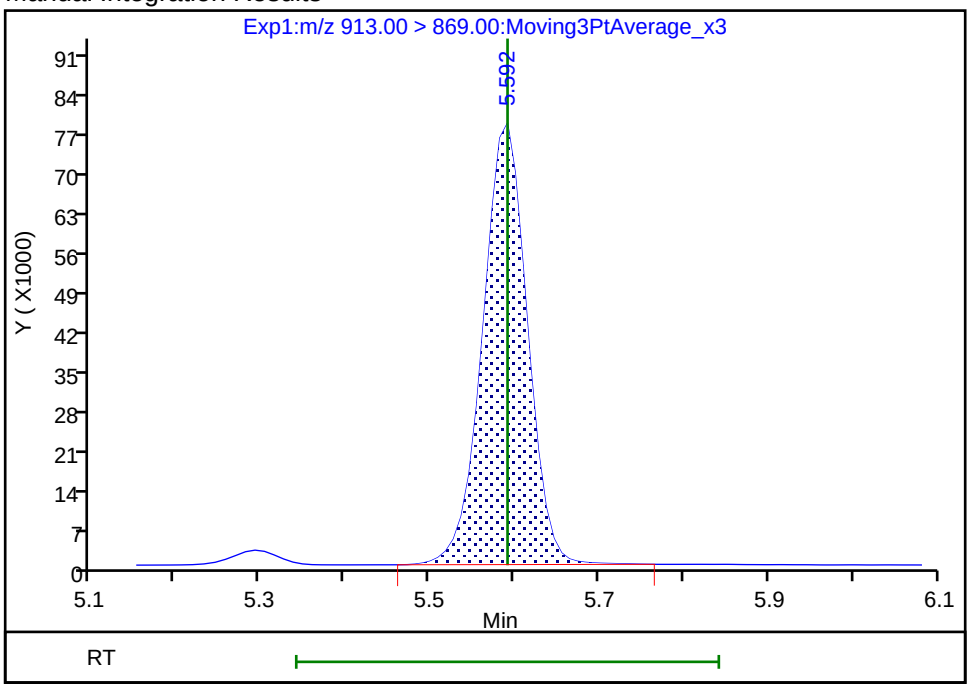
Processing Integration Results

RT: 5.59
Area: 286577
Amount: 0.964552
Amount Units: ng/ml



Manual Integration Results

RT: 5.59
Area: 286286
Amount: 0.963573
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 09:16:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 200-164133/1 Calibration Date: 02/19/2021 15:48

Instrument ID: LC812 Calib Start Date: 12/22/2020 12:48

GC Column: C-18 ID: 4.60(mm) Calib End Date: 12/22/2020 13:29

Lab File ID: PA210219B01.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.002	1.017		1.02	1.00	1.5	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.107	1.123		1.01	1.00	1.4	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.131	1.165		0.910	0.884	3.0	40.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	1.834	1.711		0.871	0.934	-6.7	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.092	1.085		0.993	1.00	-0.7	40.0
Perfluoropentanesulfonic acid	AveID	1.312	1.360		0.972	0.938	3.6	50.0
HFPO-DA	AveID	1.385	2.008		1.45	1.00	45.0*	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.178	1.207		0.932	0.910	2.4	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.092	1.114		1.02	1.00	2.0	40.0
DONA	AveID	3.349	3.581		1.01	0.942	6.9	50.0
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	AveID	1.112	1.022		0.871	0.948	-8.1	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.350	1.397		0.985	0.952	3.4	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.084	1.137		1.05	1.00	4.9	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.150	1.215		0.980	0.928	5.6	40.0
Perfluorononanoic acid (PFNA)	AveID	1.107	1.136		1.03	1.00	2.7	40.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	1.283	1.249		0.907	0.932	-2.6	50.0
Perfluorononanesulfonic acid	AveID	0.8581	0.9190		1.03	0.960	7.1	50.0
Perfluorodecanoic acid (PFDA)	AveID	1.031	1.094		1.06	1.00	6.2	40.0
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	AveID	0.6801	0.5848		0.824	0.958	-14.0	40.0
Perfluorooctanesulfonamide (FOSA)	AveID	1.002	1.087		1.09	1.00	8.5	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.8864	0.9674		1.09	1.00	9.1	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6841	0.7293		1.03	0.964	6.6	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	1.020	1.071		1.05	1.00	5.0	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9257	0.9366		1.01	1.00	1.2	40.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	1.331	1.064		0.753	0.942	-20.1	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.100	1.045		0.950	1.00	-5.0	40.0
10:2 FTS	AveID	0.3501	0.2730		0.752	0.964	-22.0	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2517	0.2577		0.991	0.968	2.4	50.0
Perfluorotridecanoic acid (PFTriA)	AveID	0.8926	0.9076		1.02	1.00	1.7	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1855	0.2076		1.12	1.00	11.9	40.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 200-164133/1 Calibration Date: 02/19/2021 15:48

Instrument ID: LC812 Calib Start Date: 12/22/2020 12:48

GC Column: C-18 ID: 4.60(mm) Calib End Date: 12/22/2020 13:29

Lab File ID: PA210219B01.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-hexadecanoic acid (PFHxDA)	L1ID		0.9931		1.05	1.00	5.1	40.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8998	0.8880		0.987	1.00	-1.3	50.0
13C4 PFBA	Ave	1.343	1.171		1.09	1.25	-12.8	50.0
13C5 PFPeA	Ave	0.9710	0.8889		1.14	1.25	-8.5	50.0
13C3 PFBS	Ave	1.278	1.121		1.02	1.16	-12.3	50.0
M2-4:2 FTS	Ave	0.1066	0.0983		1.08	1.17	-7.8	50.0
13C2 PFHxA	Ave	1.018	0.9398		1.15	1.25	-7.7	50.0
13C3 HFPO-DA	Ave	0.1792	0.0934		0.652	1.25	-47.9	50.0
13C4 PFHpA	Ave	0.9742	0.9031		1.16	1.25	-7.3	50.0
18O2 PFHxS	Ave	0.9511	0.8339		1.04	1.18	-12.3	50.0
13C4 PFOA	Ave	0.9896	0.9016		1.14	1.25	-8.9	50.0
M2-6:2 FTS	Ave	0.1187	0.1140		1.14	1.19	-4.0	50.0
13C4 PFOS	Ave	0.6528	0.5919		1.08	1.20	-9.3	50.0
13C5 PFNA	Ave	0.8730	0.8137		1.17	1.25	-6.8	50.0
13C2 PFDA	Ave	0.8346	0.7648		1.15	1.25	-8.4	50.0
M2-8:2 FTS	Ave	0.1225	0.1256		1.23	1.20	2.5	50.0
13C8 FOSA	Ave	1.227	1.114		1.14	1.25	-9.2	50.0
d3-NMeFOSAA	Ave	0.0605	0.0494		1.02	1.25	-18.3	50.0
13C2 PFUnA	Ave	0.6856	0.5818		1.06	1.25	-15.1	50.0
d5-NEtFOSAA	Ave	0.0585	0.0466		0.995	1.25	-20.4	50.0
13C2 PFDoA	Ave	0.7238	0.6061		1.05	1.25	-16.3	50.0
13C2 PFTeDA	Ave	0.5353	0.4330		1.01	1.25	-19.1	50.0
13C2 PFHxDA	Ave	0.5718	0.4037		0.882	1.25	-29.4	50.0

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B01.d
Lims ID: CCV L4
Client ID:
Sample Type: CCV
Inject. Date: 19-Feb-2021 15:48:45 ALS Bottle#: 16 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L4
Misc. Info.: 200-0044899-001 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812
Sublist: chrom-PFC_LC812*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 23-Feb-2021 11:35:09 Calib Date: 22-Dec-2020 13:29:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1628

First Level Reviewer: khanphomeea Date: 22-Feb-2021 10:41:42
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.091	2.082	0.009	0.599	1503994	1.09		87.2	9871	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.091	2.082	0.009	1.000	1223890	1.02		102	283	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.413	2.400	0.013	0.691	1141902	1.14		91.5	3445	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.413	2.400	0.013	1.000	1026030	1.01		101	58.7	M
D 47 13C3 PFBS										
301.90 > 80.00	2.426	2.426	0.0	0.695	1339017	1.02		87.7	257071	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.426	2.426	0.0	1.000	1186000	0.9102	Target=2.21	103	1986	
298.90 > 99.00	2.426	2.426	0.0	1.000	545913		2.17(1.11-3.32)		401	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.734	2.722	0.012	0.783	117992	1.08		92.2	146	M
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.734	2.722	0.012	1.000	161483	0.8714		93.3	1146	
D 7 13C2 PFHxA										
315.00 > 270.00	2.770	2.758	0.012	0.793	1207261	1.15		92.3	3959	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.770	2.758	0.012	1.000	1048004	0.99	Target=12.83	99.3	295	
313.00 > 119.00	2.770	2.758	0.012	1.000	93345		11.23(6.42-19.25)		148	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.770	2.758	0.012	0.884	1092829	0.9717	Target=3.35	104	1464	
349.00 > 99.00	2.770	2.758	0.012	0.884	321230		3.40(1.67-5.02)		476	
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.880	2.868	0.012	1.000	192840	1.45		145	44.6	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.880	2.868	0.012	0.825	120032	0.6518		52.1	1016	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.132	3.122	0.010	1.000	941262	0.9320	Target=4.15	102	1089	M
399.00 > 99.00	3.132	3.122	0.010	1.000	221051		4.26(2.08-6.23)		242	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.132	3.122	0.010	0.897	1013372	1.04		87.7	2453	
D 9 13C4 PFHpA										
367.00 > 322.00	3.132	3.122	0.010	0.897	1160171	1.16		92.7	3451	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.143	3.122	0.021	1.003	1034349	1.02	Target=3.66	102	363	
363.00 > 169.00	3.143	3.122	0.021	1.003	286569		3.61(1.83-5.49)		533	
77 DONA										M
377.00 > 251.00	3.175	3.164	0.011	0.835	2052182	1.01	Target=2.43	107	1992	M
377.00 > 85.00	3.175	3.164	0.011	0.835	852372		2.41(1.22-3.65)		981	M
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.483	3.465	0.018	0.916	808806	0.9847	Target=5.95	103	2672	M
449.00 > 99.00	3.483	3.465	0.018	0.916	134043		6.03(2.98-8.93)		469	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.492	3.474	0.018	1.000	139078	1.14		96.0	427	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.483	3.474	0.009	0.997	113517	0.8714		91.9	578	M
D 14 13C4 PFOA										
417.00 > 372.00	3.492	3.483	0.009	1.000	1158202	1.14		91.1	2329	
* 62 13C2 PFOA										
415.00 > 370.00	3.492	3.483	0.009		1284636	1.25			1030	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.492	3.483	0.009	1.000	1053728	1.05	Target=2.58	105	325	
413.00 > 169.00	3.492	3.483	0.009	1.000	420949		2.50(1.29-3.87)		972	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.804	3.794	0.010	1.000	685833	0.9803	Target=5.65	106	756	M
499.00 > 99.00	3.804	3.794	0.010	1.000	118622		5.78(2.82-8.47)		309	M
D 18 13C4 PFOS										
503.00 > 80.00	3.804	3.794	0.010	1.089	726945	1.08		90.7	2143	
D 19 13C5 PFNA										
468.00 > 423.00	3.824	3.814	0.010	1.095	1045265	1.17		93.2	3495	
20 Perfluorononanoic acid										
463.00 > 419.00	3.824	3.814	0.010	1.000	950205	1.03	Target=7.44	103	248	
463.00 > 169.00	3.824	3.814	0.010	1.000	138555		6.86(3.72-11.16)		1056	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.964	3.955	0.009	1.042	708344	0.9074		97.4	2342	
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.092	4.071	0.021	1.076	536697	1.03	Target=2.54	107	2531	
549.00 > 99.00	4.092	4.071	0.021	1.076	174120		3.08(1.27-3.81)		597	M
D 23 13C2 PFDA										
515.00 > 470.00	4.115	4.104	0.011	1.178	982544	1.15		91.6	2968	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.115	4.104	0.011	1.000	860031	1.06	Target=9.29	106	672	
513.00 > 169.00	4.126	4.104	0.022	1.003	103746		8.29(4.64-13.93)		559	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.126	4.115	0.011	1.182	154541	1.23		103	826	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.126	4.115	0.011	1.000	72304	0.8238		86.0	572	M
D 21 13C8 FOSA										M
506.00 > 78.00	4.225	4.215	0.010	1.210	1431549	1.14		90.8	2143	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.225	4.215	0.010	1.000	1244828	1.08		108	2865	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.257	4.246	0.011	1.219	63520	1.02		81.7	214	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.268	4.246	0.022	1.003	49160	1.09		109	369	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.347	4.336	0.011	1.143	427688	1.03	Target=2.80	107	1858	
599.00 > 99.00	4.347	4.336	0.011	1.143	155037		2.76(1.40-4.19)		720	
D 30 13C2 PFUnA										
565.00 > 520.00	4.380	4.358	0.022	1.254	747361	1.06		84.9	4261	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.380	4.358	0.022	1.000	640361	1.05	Target=8.12	105	488	
563.00 > 169.00	4.380	4.358	0.022	1.000	82352		7.78(4.06-12.18)		742	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.391	4.369	0.022	1.257	59851	1.00		79.6	525	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.391	4.380	0.011	1.000	44846	1.01		101	756	M
66 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.467	4.456	0.011	1.174	609546	0.7526		79.9	2513	
D 36 13C2 PFDoA										
615.00 > 570.00	4.601	4.591	0.010	1.318	778616	1.05		83.7	3399	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.601	4.591	0.010	1.000	650925	0.9501	Target=6.91	95.0	251	
613.00 > 169.00	4.601	4.591	0.010	1.000	106321		6.12(3.45-10.36)		1395	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.622	4.601	0.021	1.120	33966	0.7517		78.0	1054	
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.774	4.748	0.026	1.255	151740	0.99	Target=0.51	102	1182	M
699.00 > 99.00	4.774	4.748	0.026	1.255	309624		0.49(0.26-0.77)		939	M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.801	4.784	0.017	1.043	565311	1.02	Target=4.39	102	209	
663.00 > 169.00	4.801	4.784	0.017	1.043	135476		4.17(2.20-6.59)		1195	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.995	4.966	0.029	1.430	556223	1.01		80.9	2589	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.995	4.966	0.029	1.000	92357	1.12	Target=1.06	112	1785	
713.00 > 219.00	4.985	4.966	0.019	0.998	89420		1.03(0.53-1.59)		1302	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.315	5.293	0.022	1.522	518584	0.8824		70.6	2186	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.326	5.293	0.033	1.002	412006	1.05	Target=3.84	105	166	
813.00 > 169.00	5.326	5.293	0.033	1.002	111174		3.71(1.92-5.76)		1684	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.628	5.592	0.036	1.059	368386	0.9869	Target=3.92	98.7	347	
913.00 > 169.00	5.619	5.592	0.027	1.057	104017		3.54(1.96-5.88)		1086	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC4_00015 Amount Added: 100.00 Units: uL

Report Date: 23-Feb-2021 11:35:09 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B01.d

Injection Date: 19-Feb-2021 15:48:45 Instrument ID: LC812

Lims ID: CCV L4

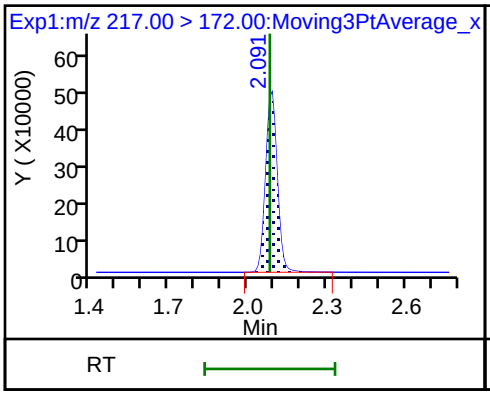
Client ID:

Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 1

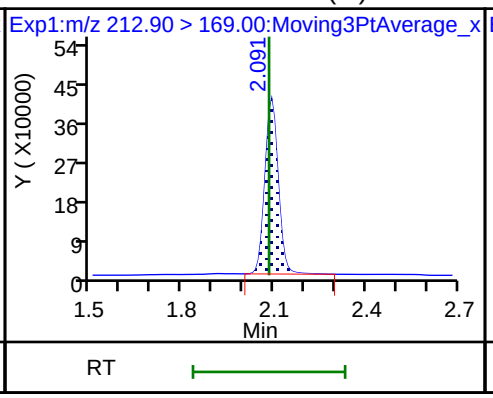
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

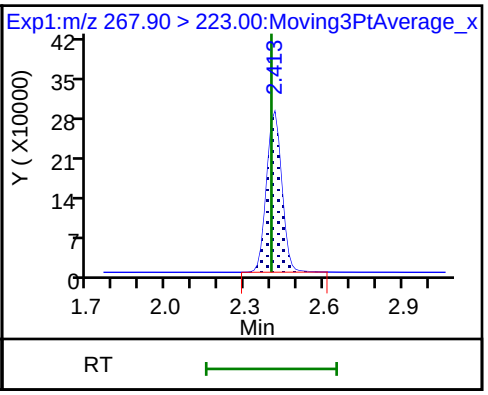
D 1 13C4 PFBA



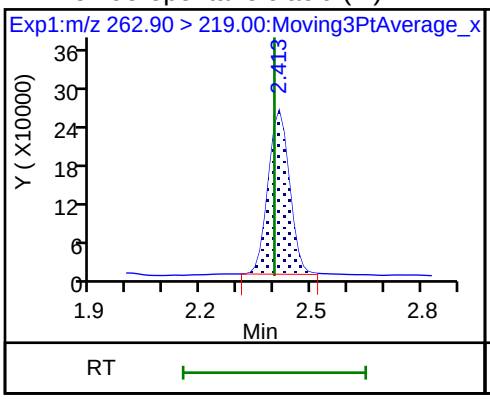
2 Perfluorobutanoic acid (M)



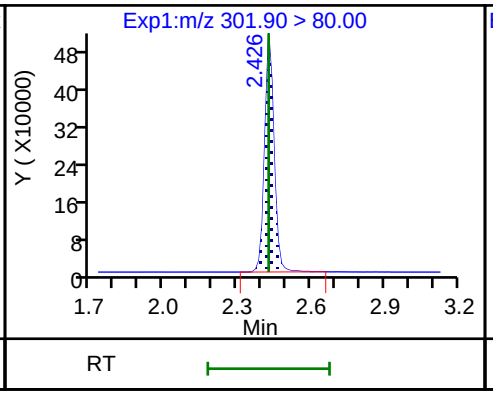
D 3 13C5 PFPeA



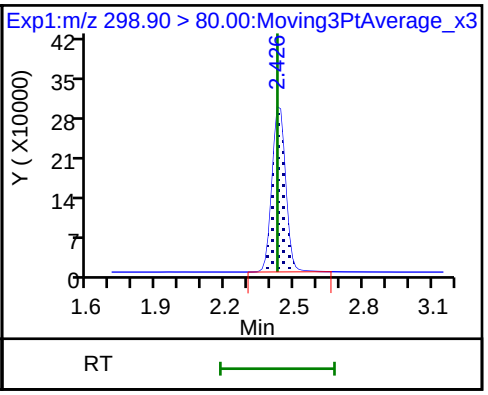
4 Perfluoropentanoic acid (M)



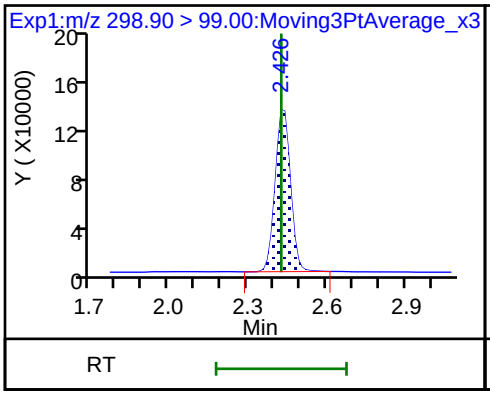
D 47 13C3 PFBS



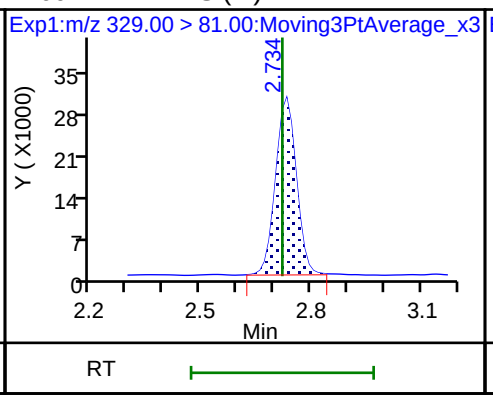
5 Perfluorobutanesulfonic acid



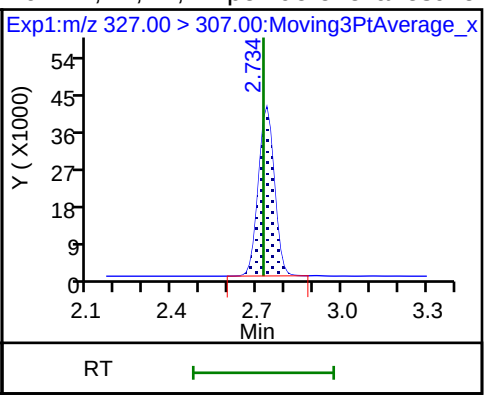
5 Perfluorobutanesulfonic acid



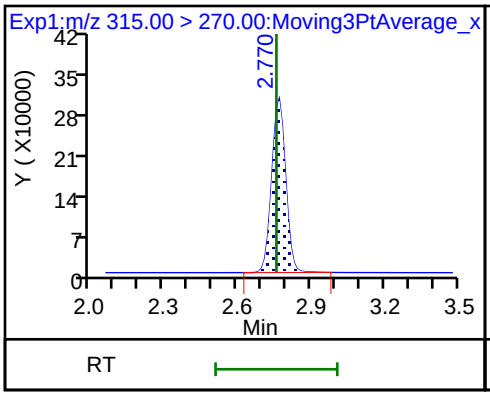
D 60 M2-4:2 FTS (M)



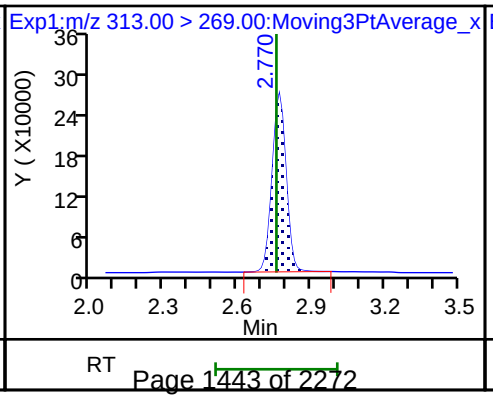
61 1H,1H,2H,2H-perfluorohexanesulfo



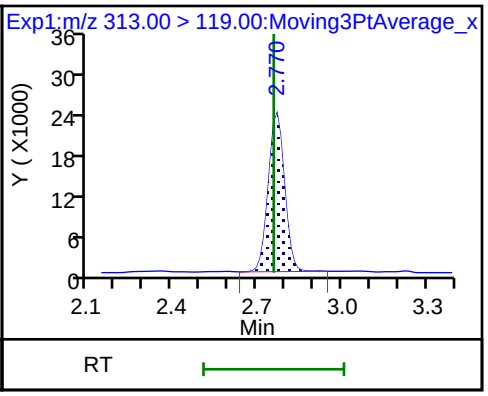
D 7 13C2 PFHxA



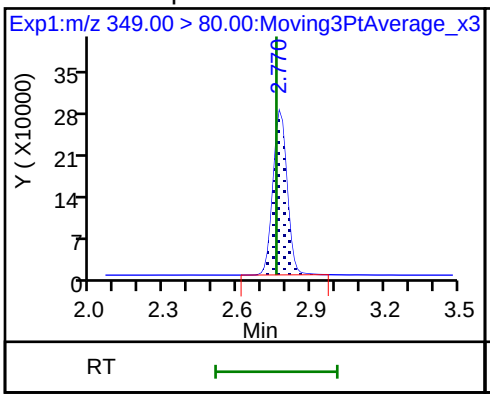
6 Perfluorohexanoic acid



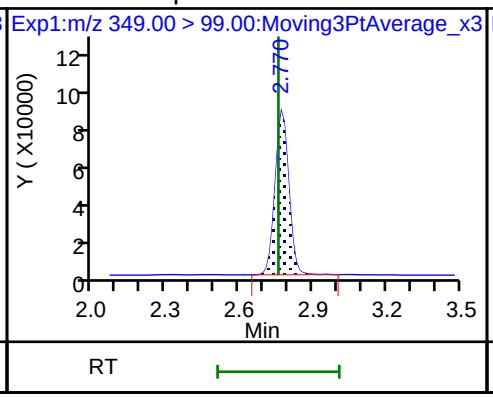
6 Perfluorohexanoic acid



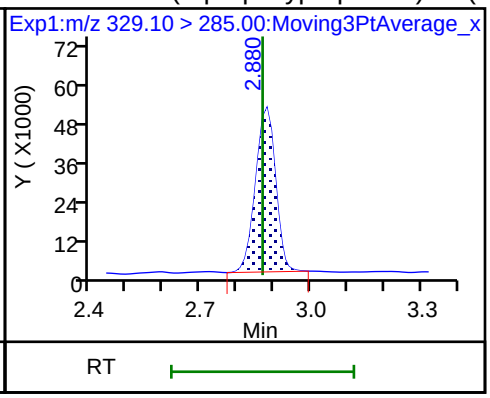
70 Perfluoropentanesulfonic acid



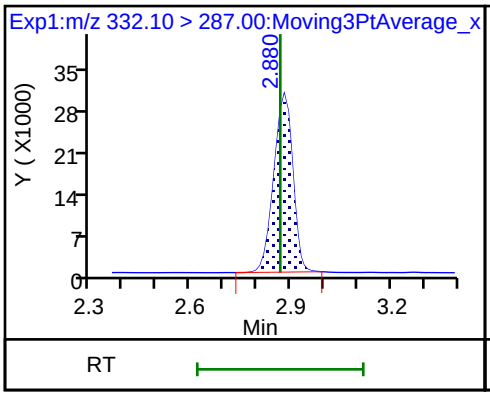
70 Perfluoropentanesulfonic acid



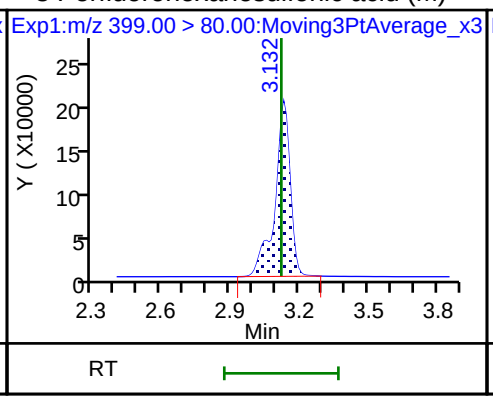
67 Perfluoro(2-propoxypropanoic) ac (M)



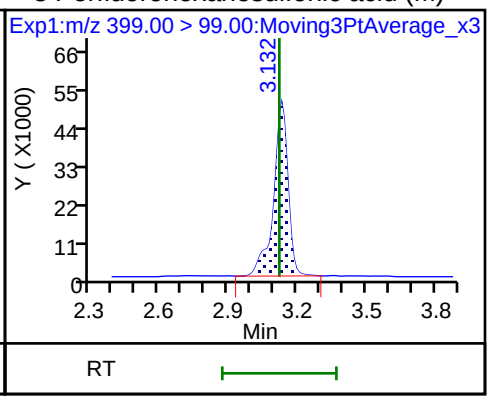
D 64 13C3 HFPO-DA



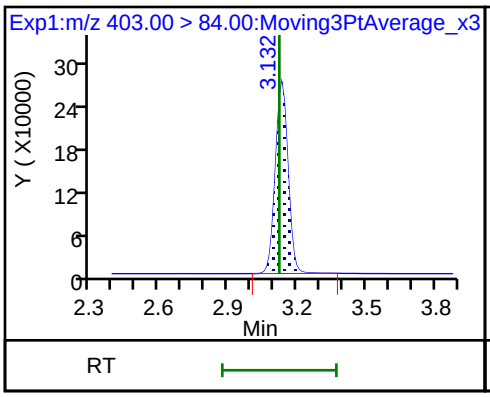
8 Perfluorohexanesulfonic acid (M)



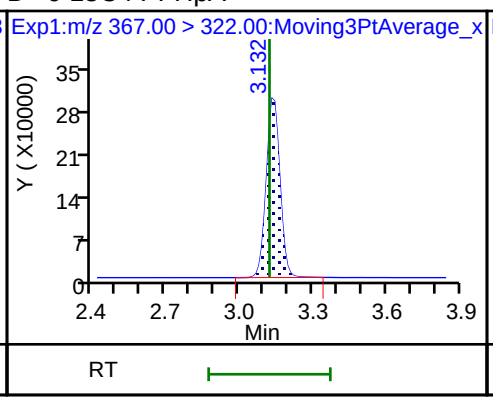
8 Perfluorohexanesulfonic acid (M)



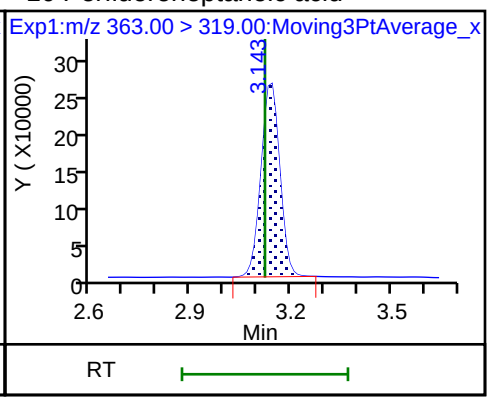
D 11 18O2 PFHxS



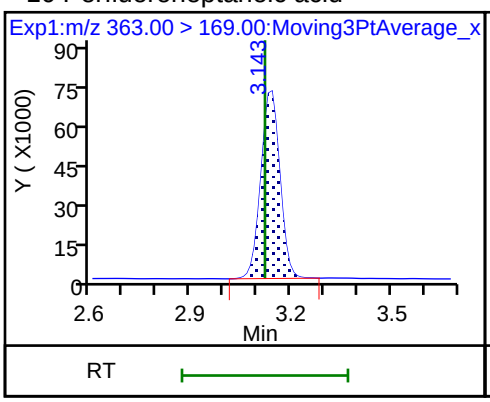
D 9 13C4 PFHpA



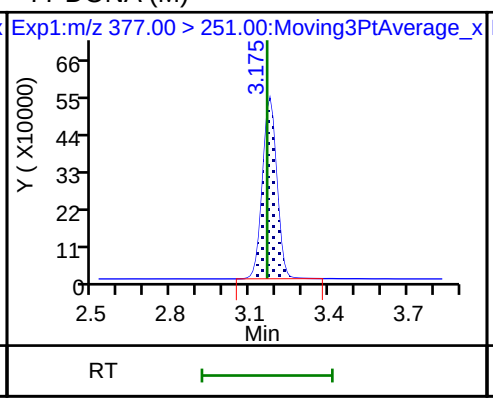
10 Perfluoroheptanoic acid



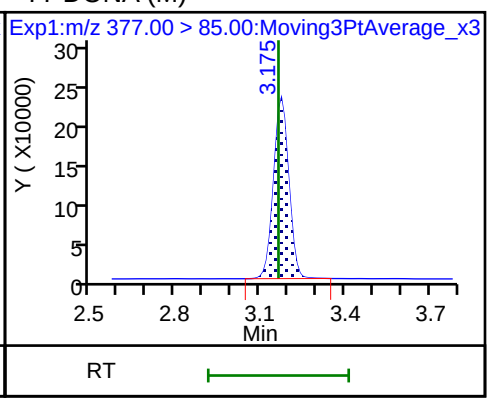
10 Perfluoroheptanoic acid



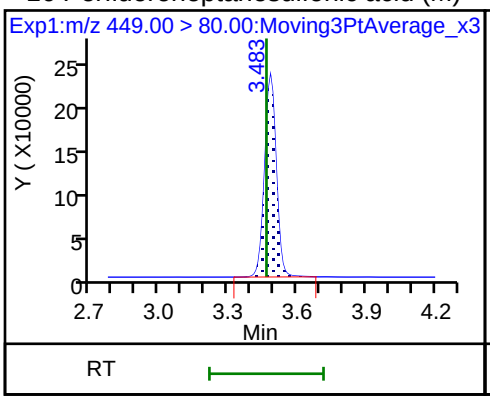
77 DONA (M)



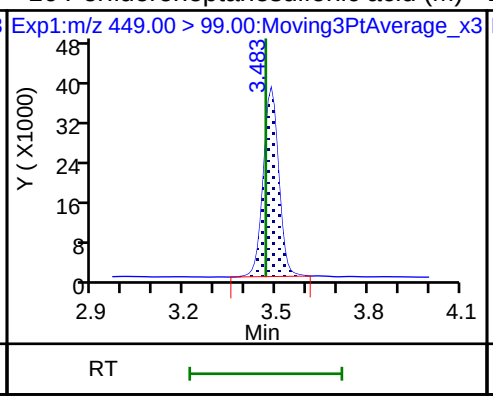
77 DONA (M)



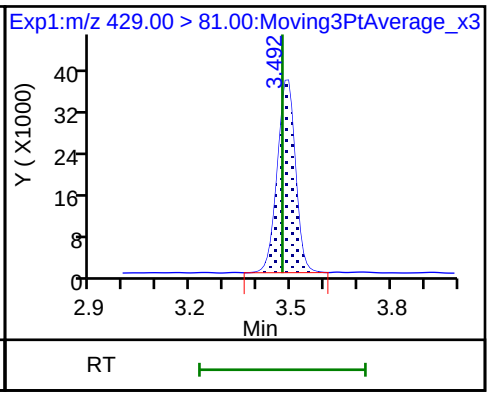
16 Perfluoroheptanesulfonic acid (M)



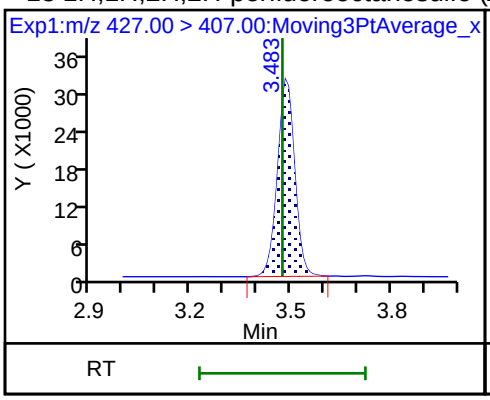
16 Perfluoroheptanesulfonic acid (M)



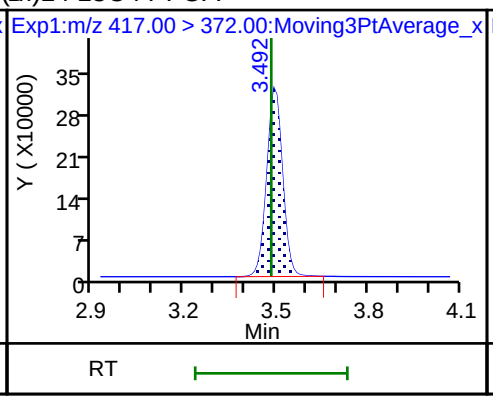
D 12 M2-6:2 FTS



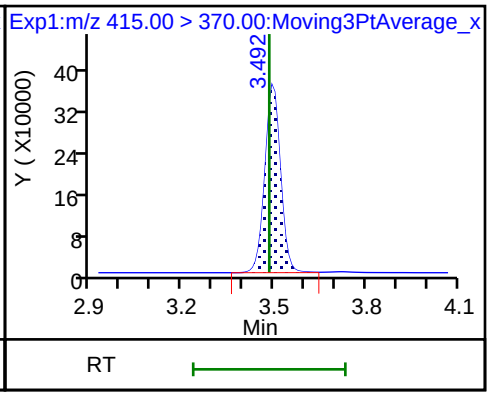
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



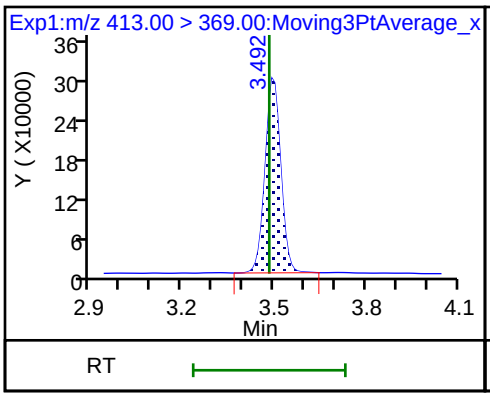
D 14 13C4 PFOA



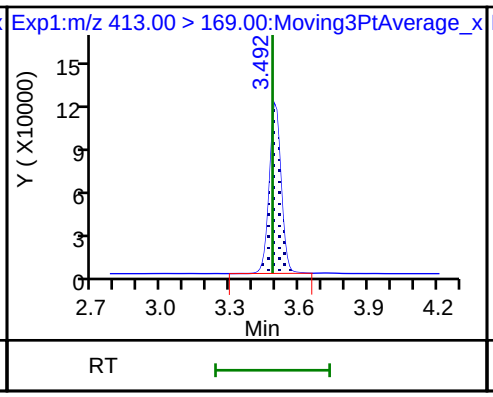
* 62 13C2 PFOA



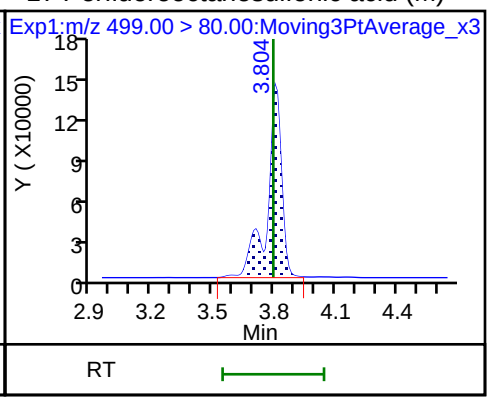
15 Perfluorooctanoic acid



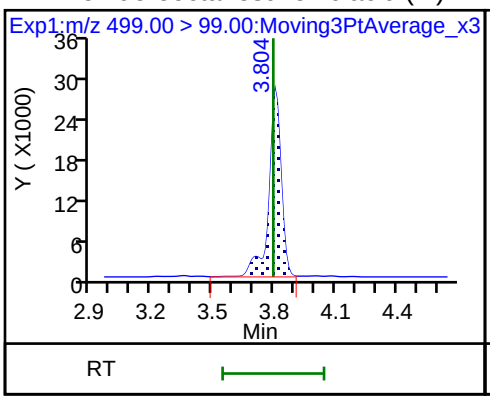
15 Perfluorooctanoic acid



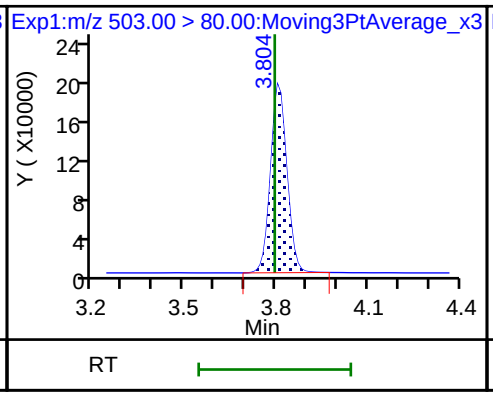
17 Perfluorooctanesulfonic acid (M)



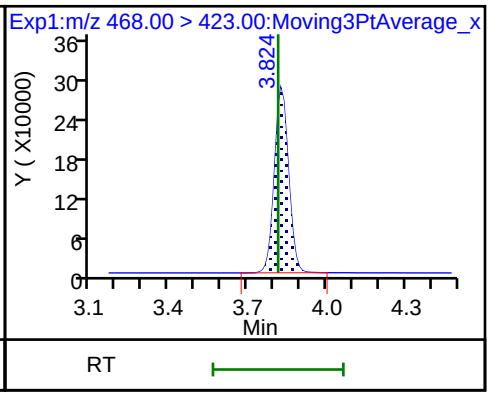
17 Perfluorooctanesulfonic acid (M)



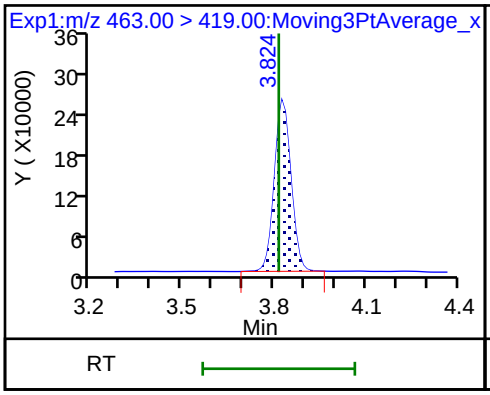
D 18 13C4 PFOS



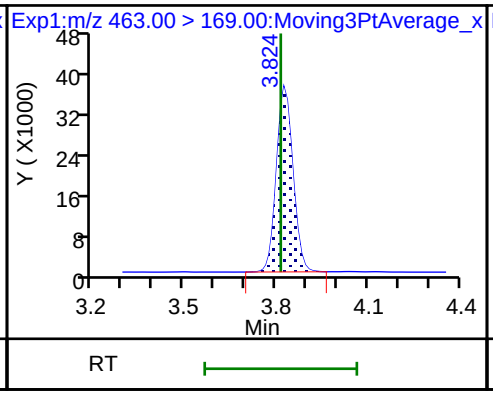
D 19 13C5 PFNA



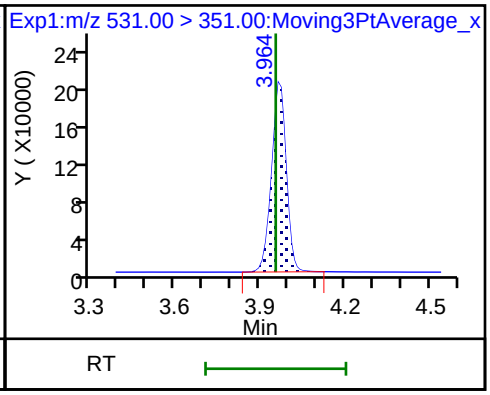
20 Perfluorononanoic acid



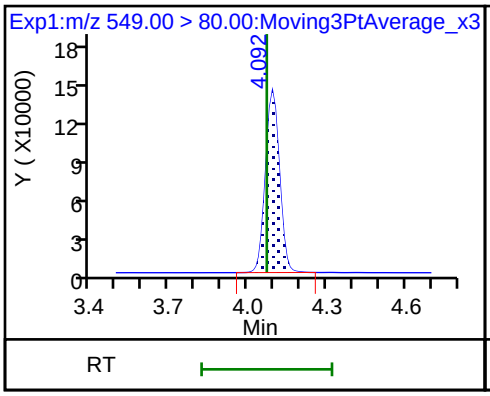
20 Perfluorononanoic acid



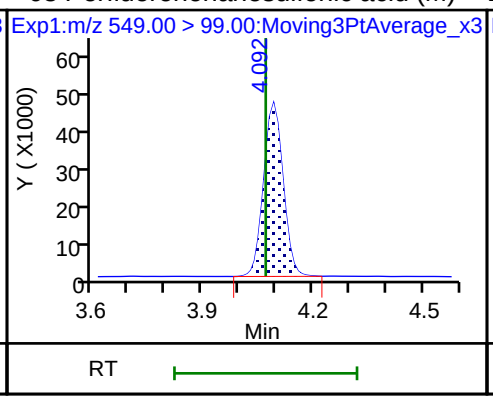
69 9-Chlorohexadecafluoro-3-oxanona



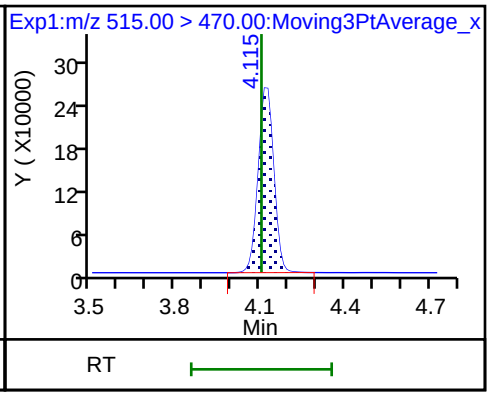
68 Perfluorononanesulfonic acid



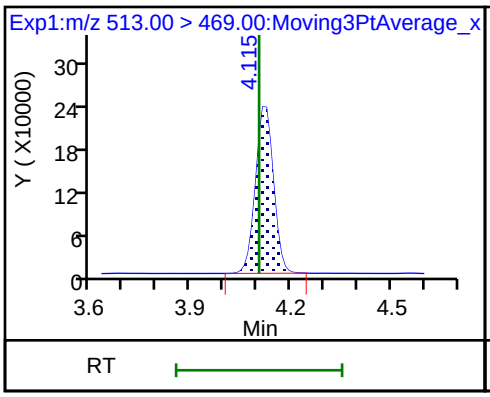
68 Perfluorononanesulfonic acid (M)



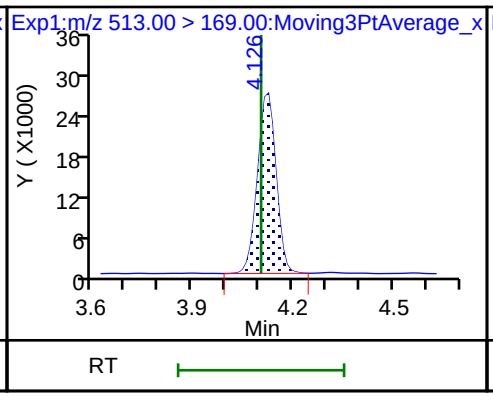
D 23 13C2 PFDA



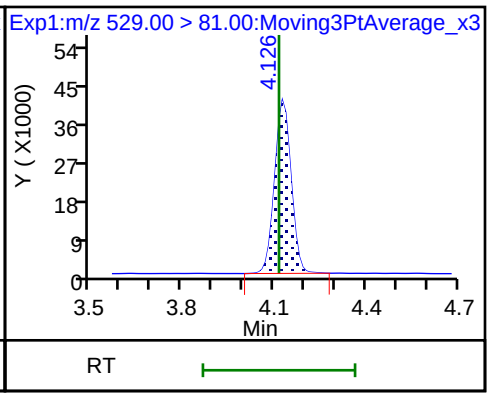
24 Perfluorodecanoic acid



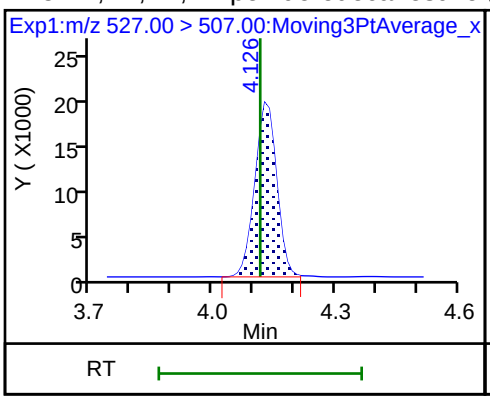
24 Perfluorodecanoic acid



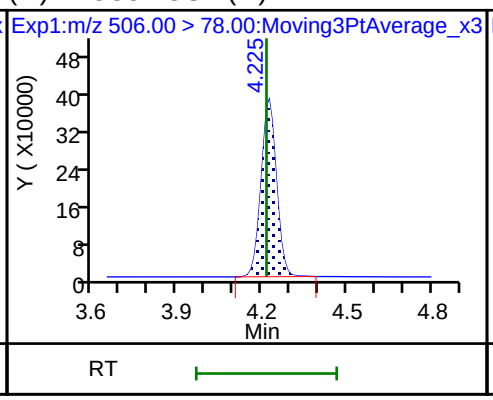
D 26 M2-8:2 FTS



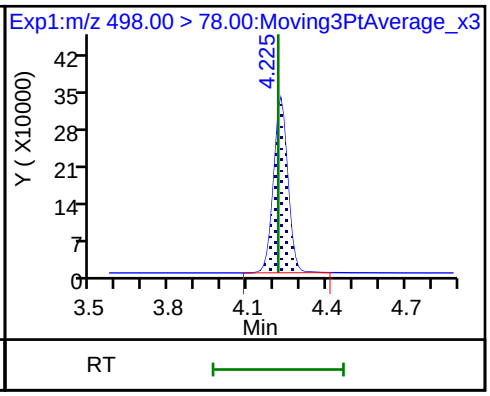
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



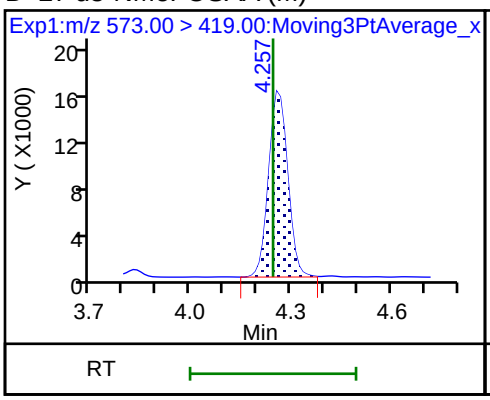
D 21 13C8 FOSA (M)



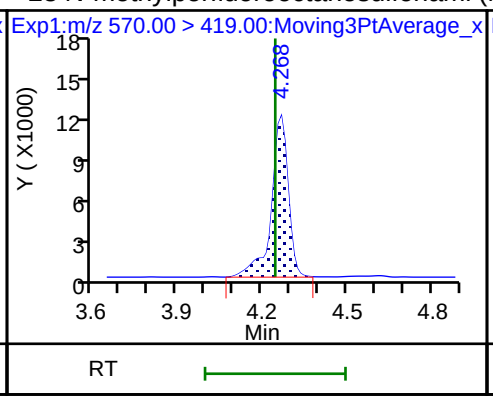
22 Perfluorooctanesulfonamide



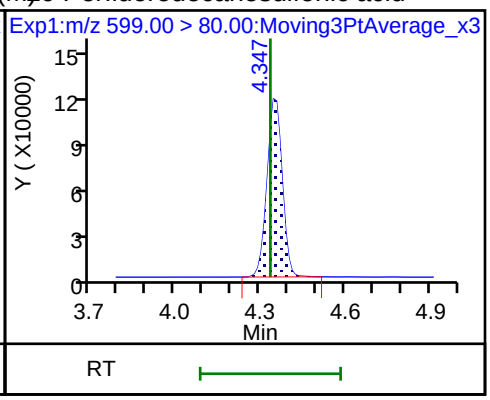
D 27 d3-NMeFOSAA (M)



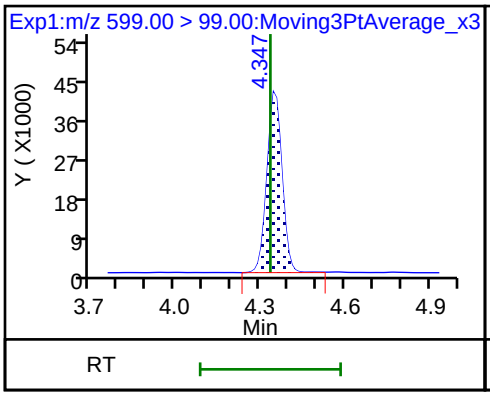
28 N-methylperfluorooctanesulfonami (M)



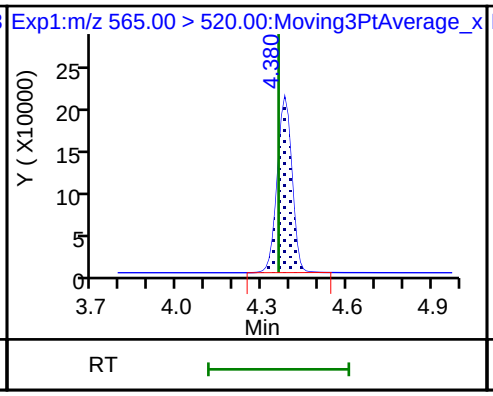
29 Perfluorodecanesulfonic acid



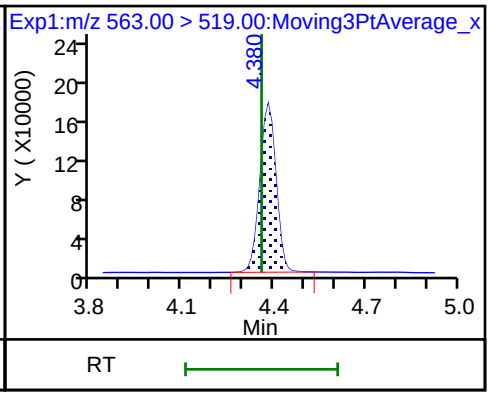
29 Perfluorodecanesulfonic acid



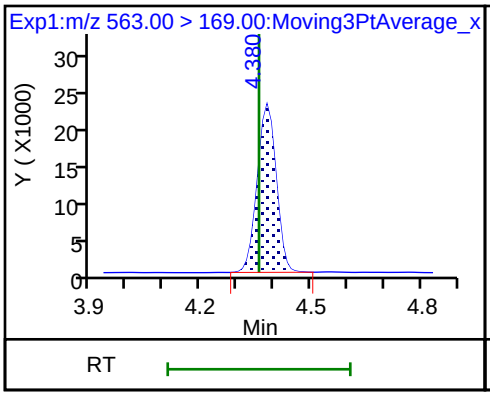
D 30 13C2 PFUnA



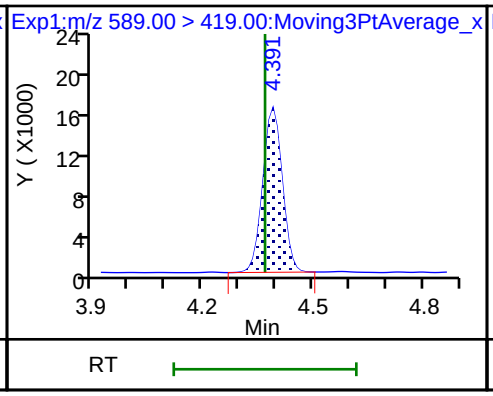
31 Perfluoroundecanoic acid



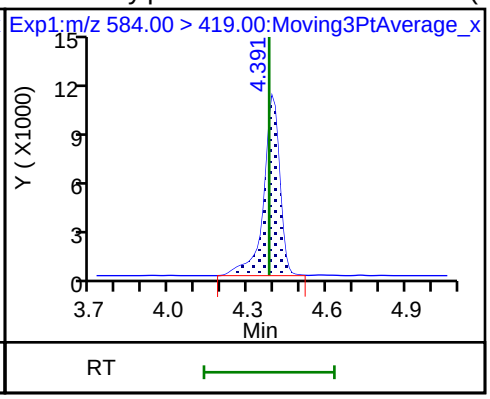
31 Perfluoroundecanoic acid



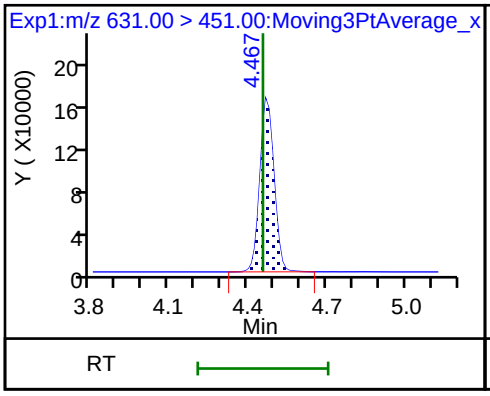
D 32 d5-NEtFOSAA



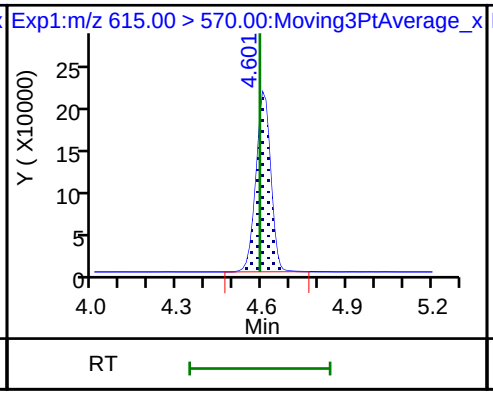
33 N-ethylperfluorooctanesulfonamid (M)



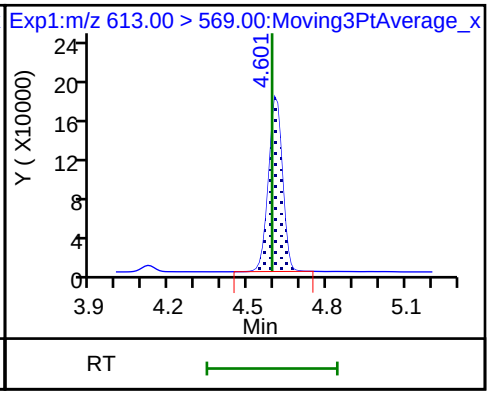
66 11-Chloroeicosafluoro-3-oxaundec



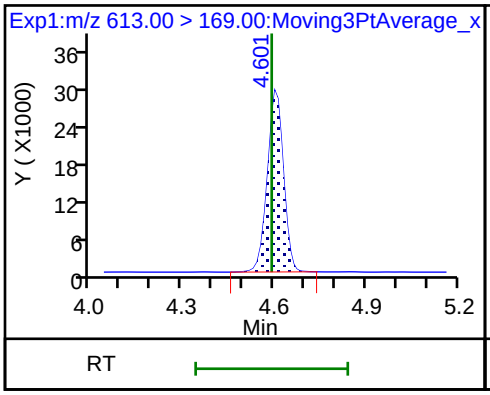
D 36 13C2 PFDoA



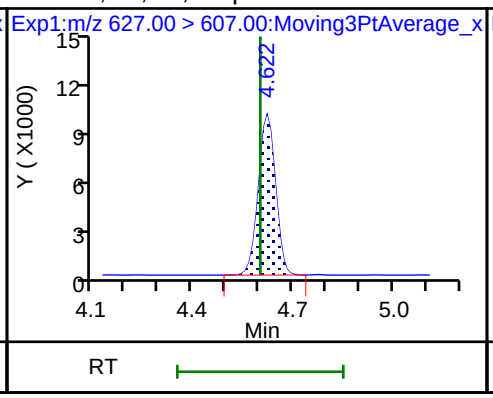
37 Perfluorododecanoic acid



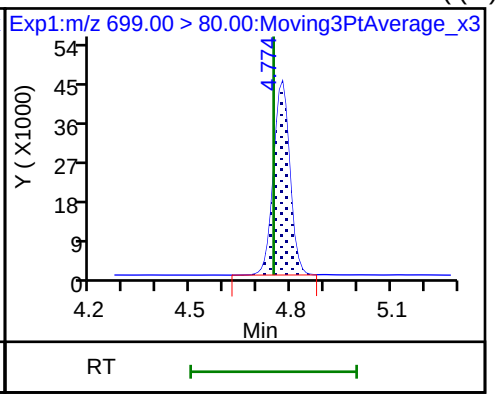
37 Perfluorododecanoic acid



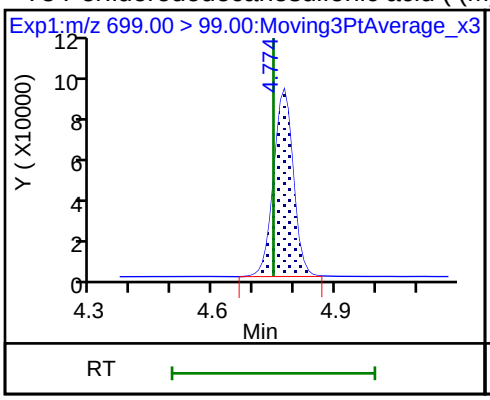
74 1H,1H,2H,2H-perfluorododecanesul



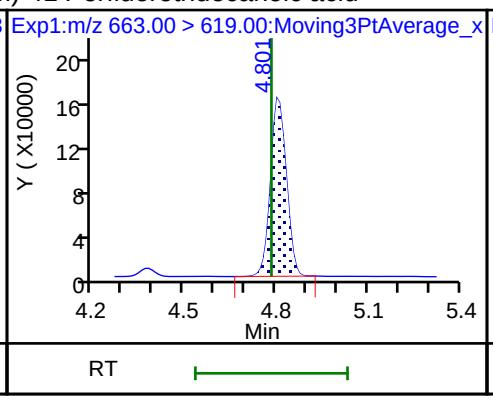
75 Perfluorododecanesulfonic acid ((M)



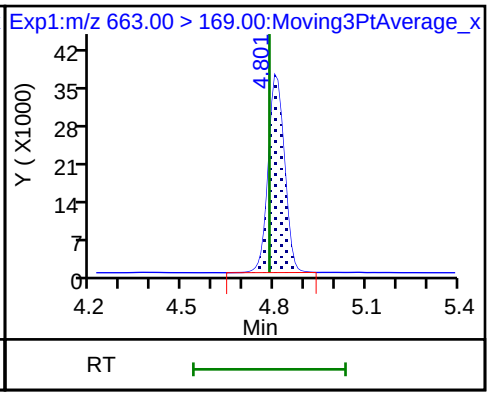
75 Perfluorododecanesulfonic acid ((M)



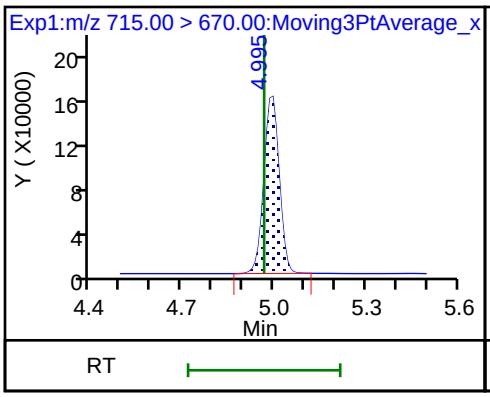
41 Perfluorotridecanoic acid



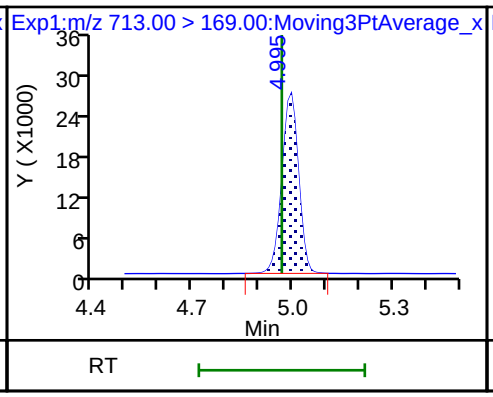
41 Perfluorotridecanoic acid



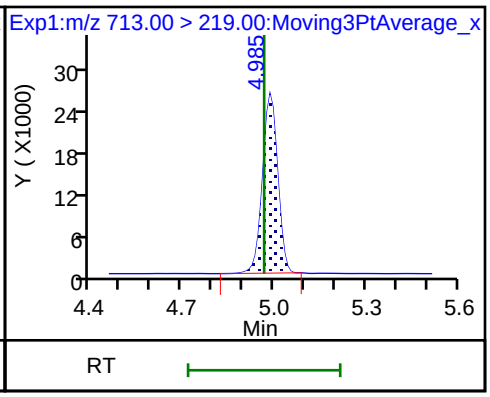
D 43 13C2 PFTeDA



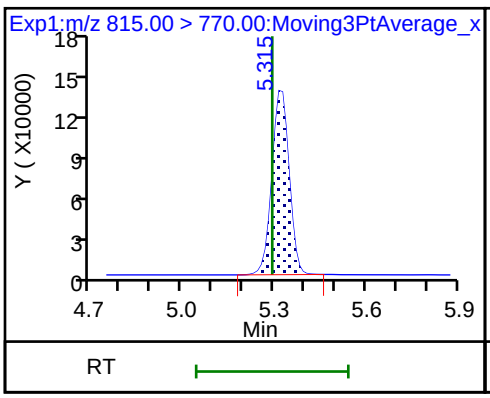
42 Perfluorotetradecanoic acid



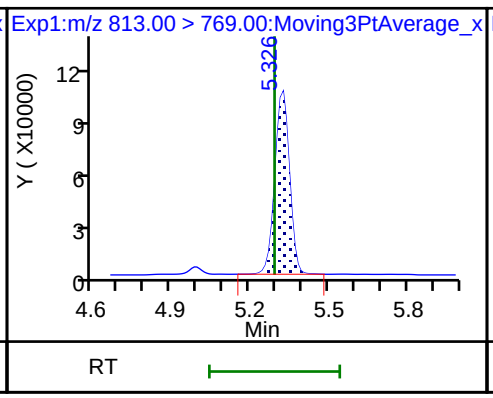
42 Perfluorotetradecanoic acid



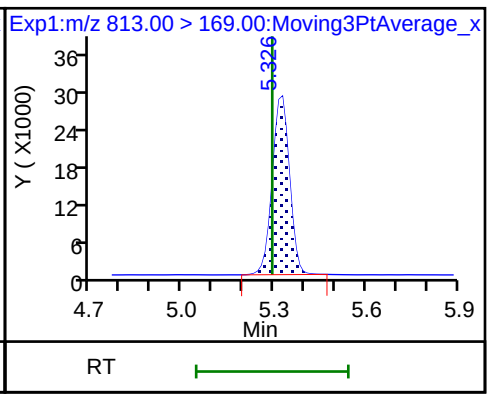
D 44 13C2 PFHxDA



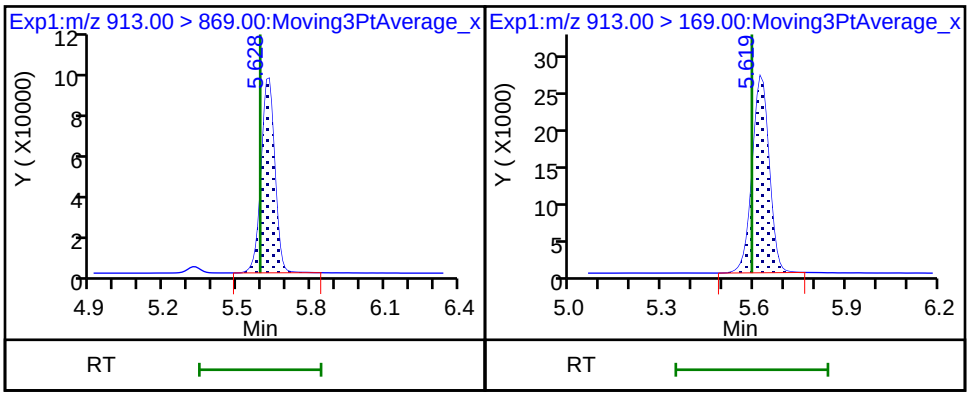
45 Perfluorohexadecanoic acid



45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

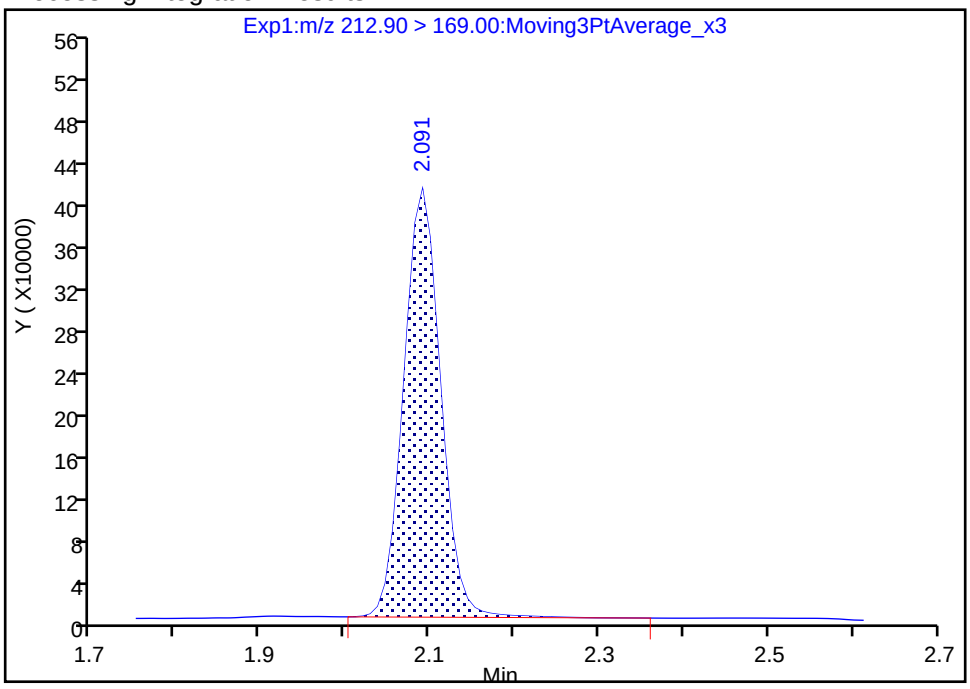
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B01.d
Injection Date: 19-Feb-2021 15:48:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

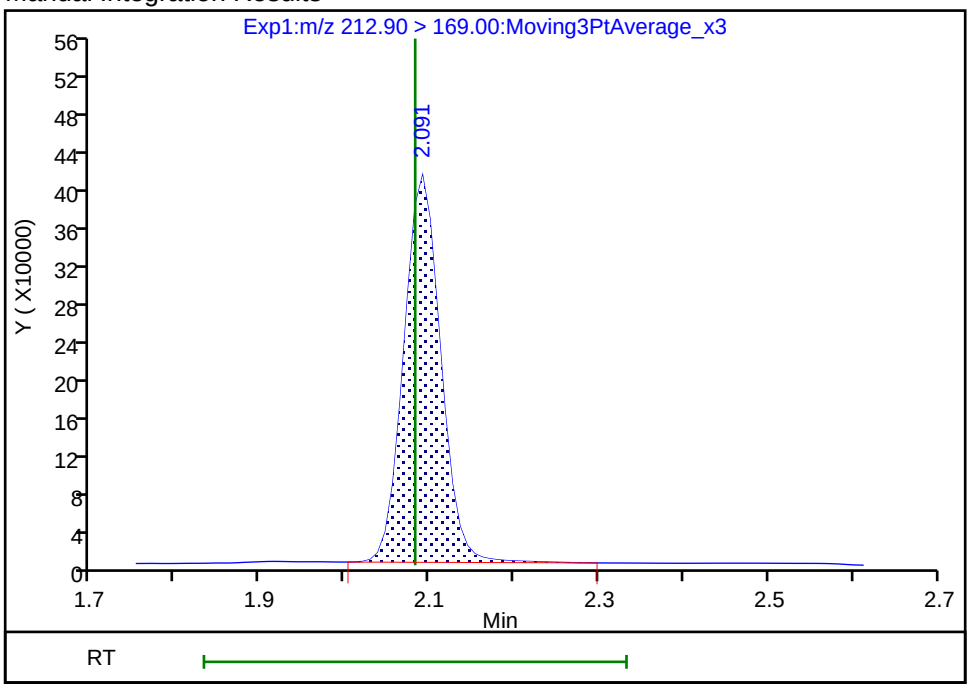
Processing Integration Results

RT: 2.09
Area: 1224394
Amount: 1.015577
Amount Units: ng/ml



Manual Integration Results

RT: 2.09
Area: 1223890
Amount: 1.015159
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:38:09
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

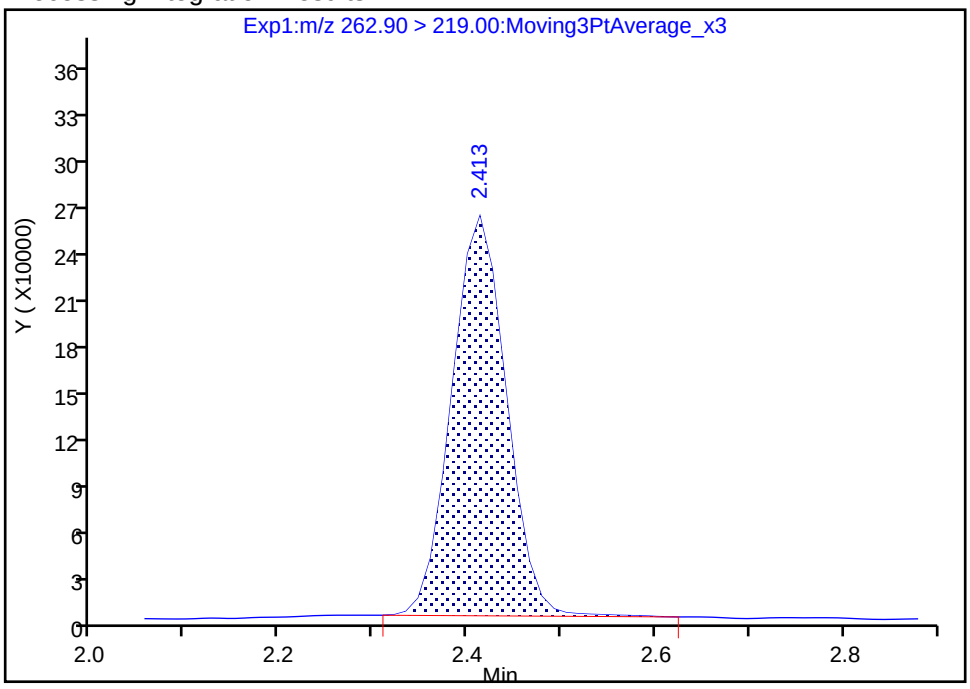
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B01.d				
Injection Date:	19-Feb-2021 15:48:45	Instrument ID:	LC812		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	1
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

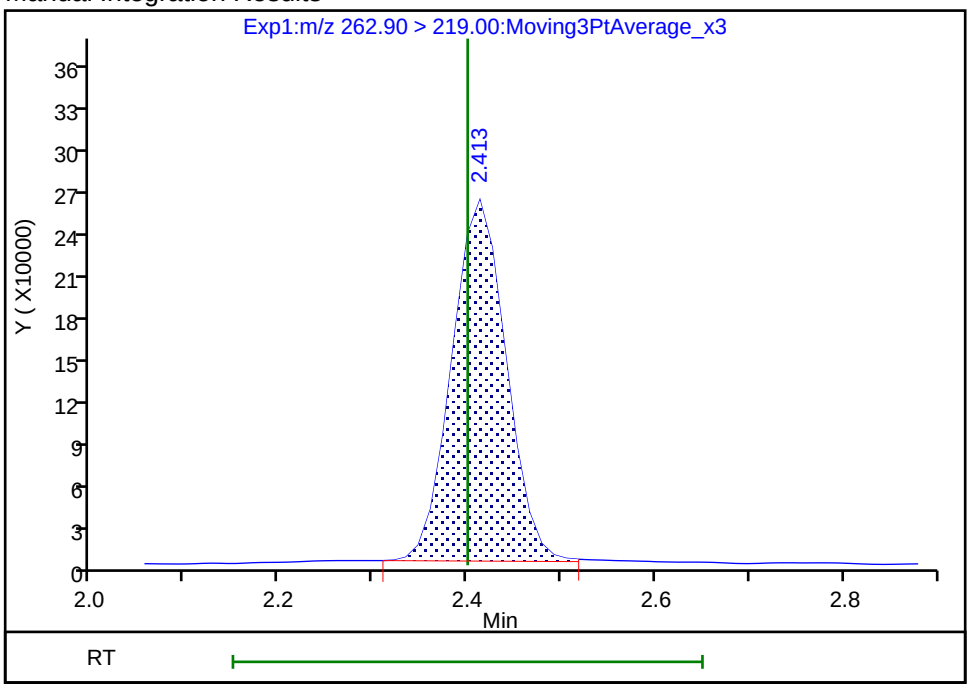
Processing Integration Results

RT: 2.41
Area: 1030628
Amount: 1.018882
Amount Units: ng/ml



Manual Integration Results

RT: 2.41
Area: 1026030
Amount: 1.014336
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:38:23

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

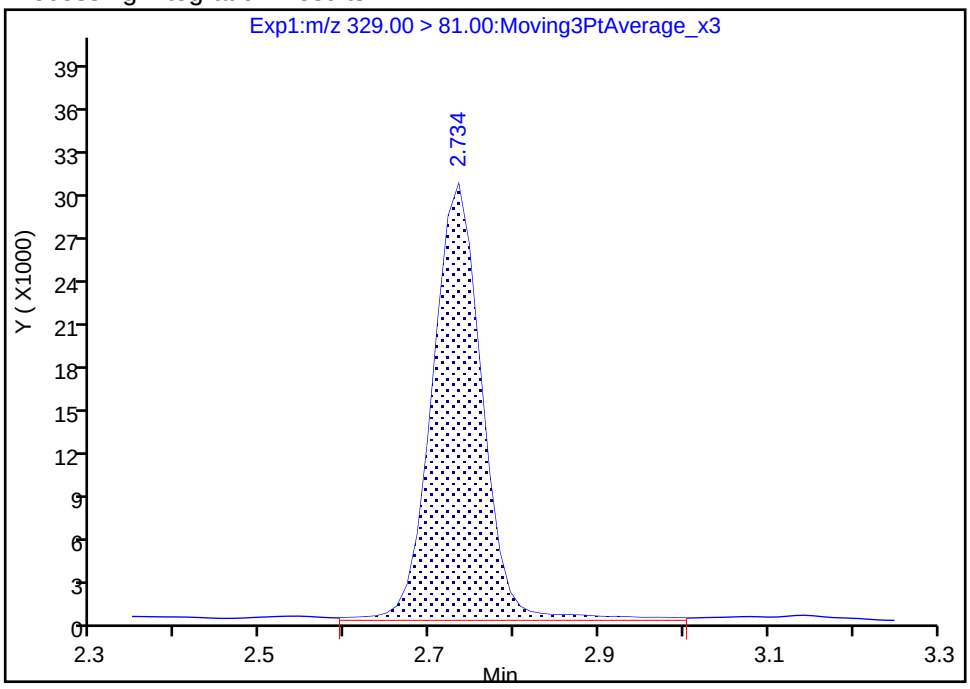
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B01.d				
Injection Date:	19-Feb-2021 15:48:45	Instrument ID:	LC812		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	1
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

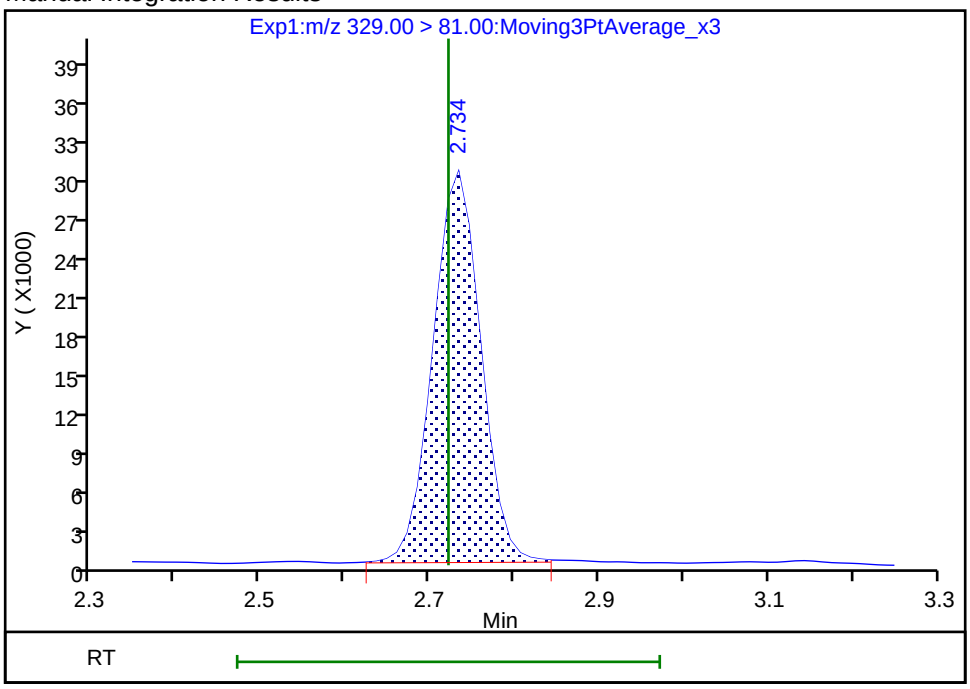
Processing Integration Results

RT: 2.73
Area: 123522
Amount: 1.127412
Amount Units: ng/ml



Manual Integration Results

RT: 2.73
Area: 117992
Amount: 1.076939
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:37:22

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

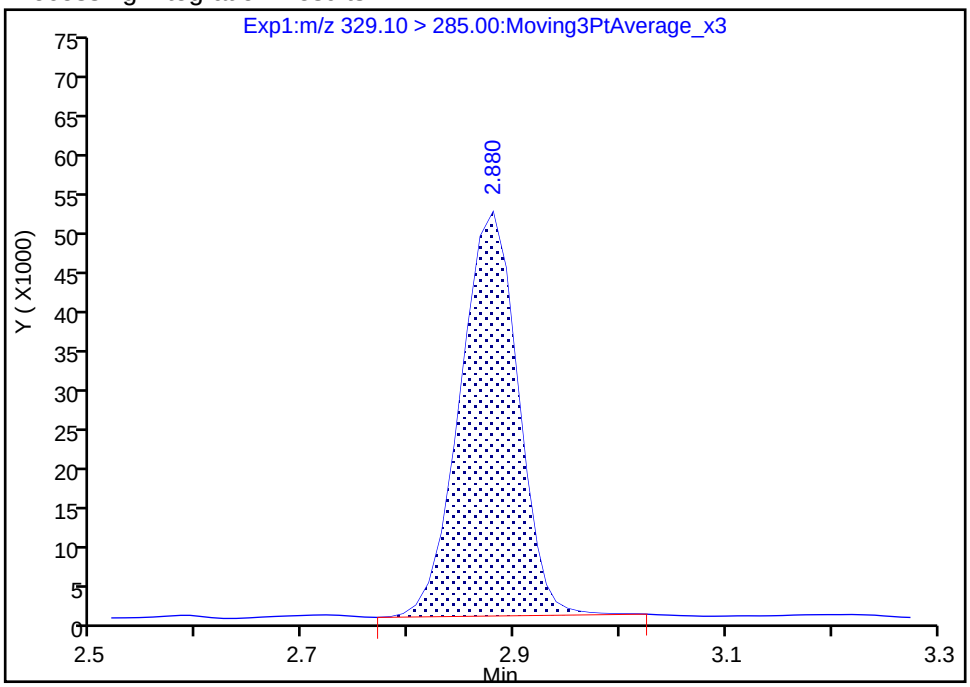
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B01.d				
Injection Date:	19-Feb-2021 15:48:45	Instrument ID:	LC812		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	1
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

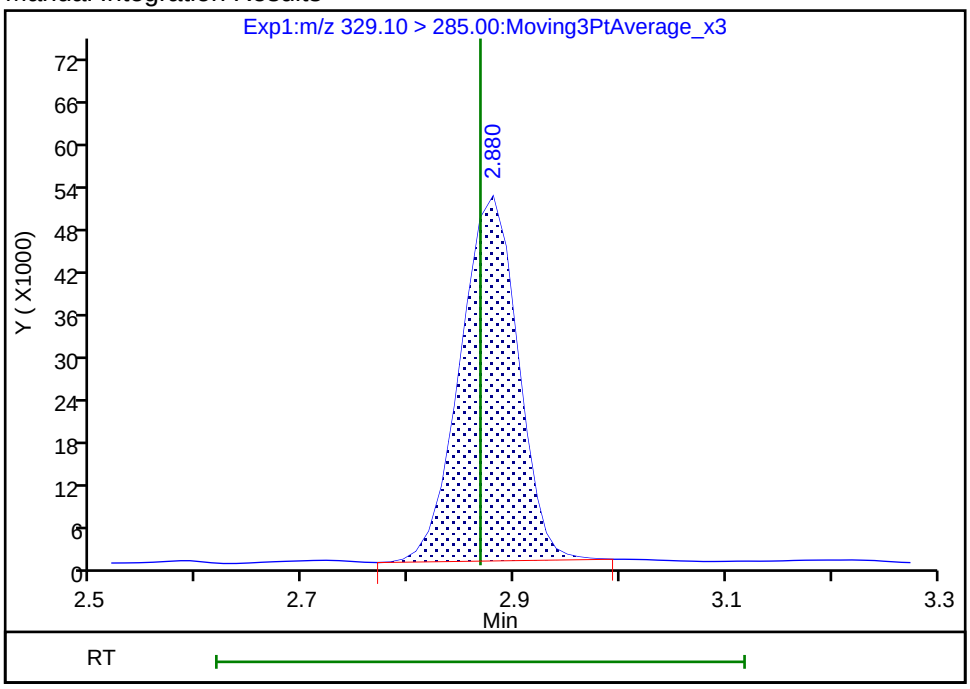
Processing Integration Results

RT: 2.88
Area: 193640
Amount: 1.455581
Amount Units: ng/ml



Manual Integration Results

RT: 2.88
Area: 192840
Amount: 1.449568
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:38:46

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

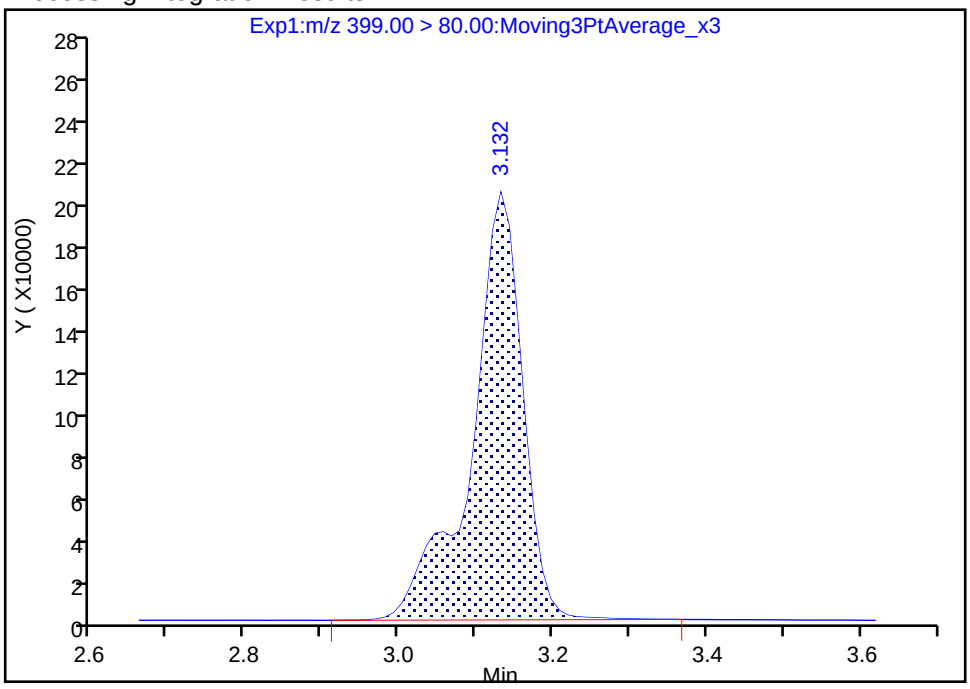
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B01.d				
Injection Date:	19-Feb-2021 15:48:45	Instrument ID:	LC812		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	1
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

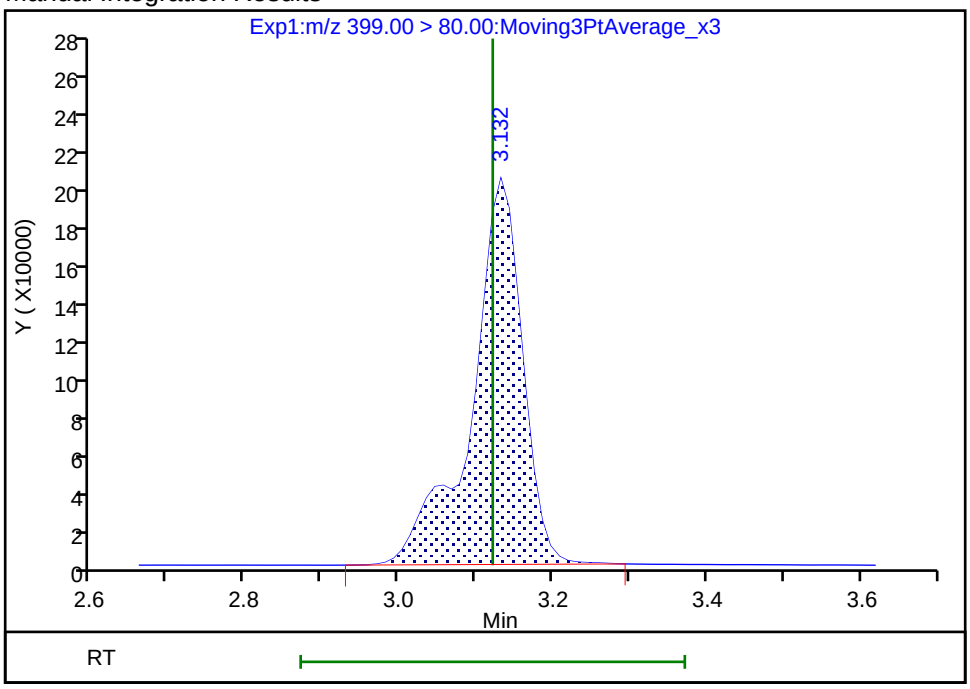
Processing Integration Results

RT: 3.13
Area: 945747
Amount: 0.936449
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 941262
Amount: 0.932008
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:38:51

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

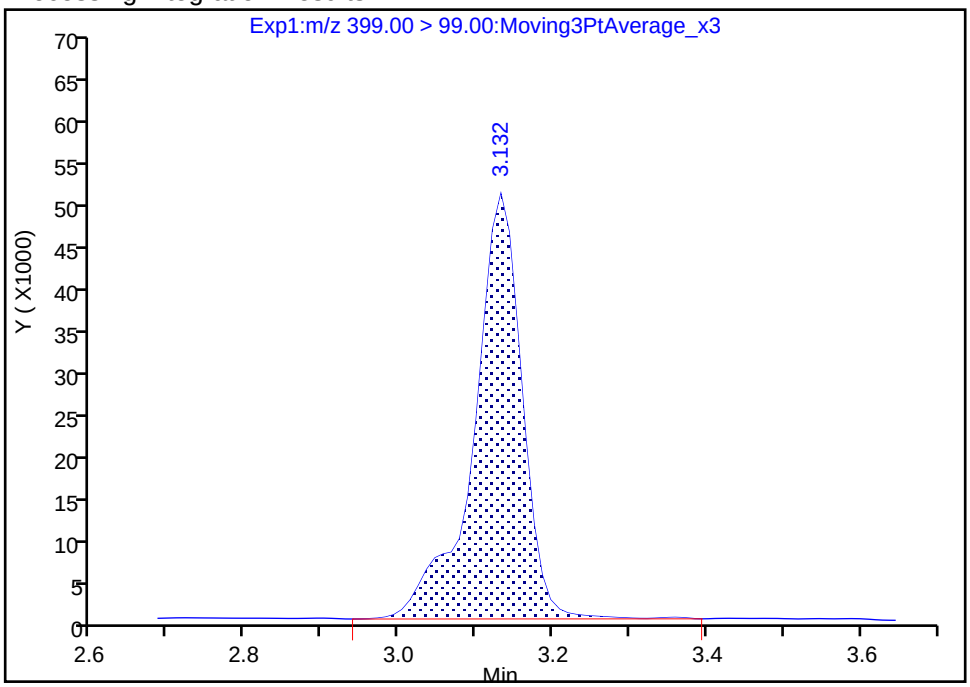
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B01.d
Injection Date: 19-Feb-2021 15:48:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

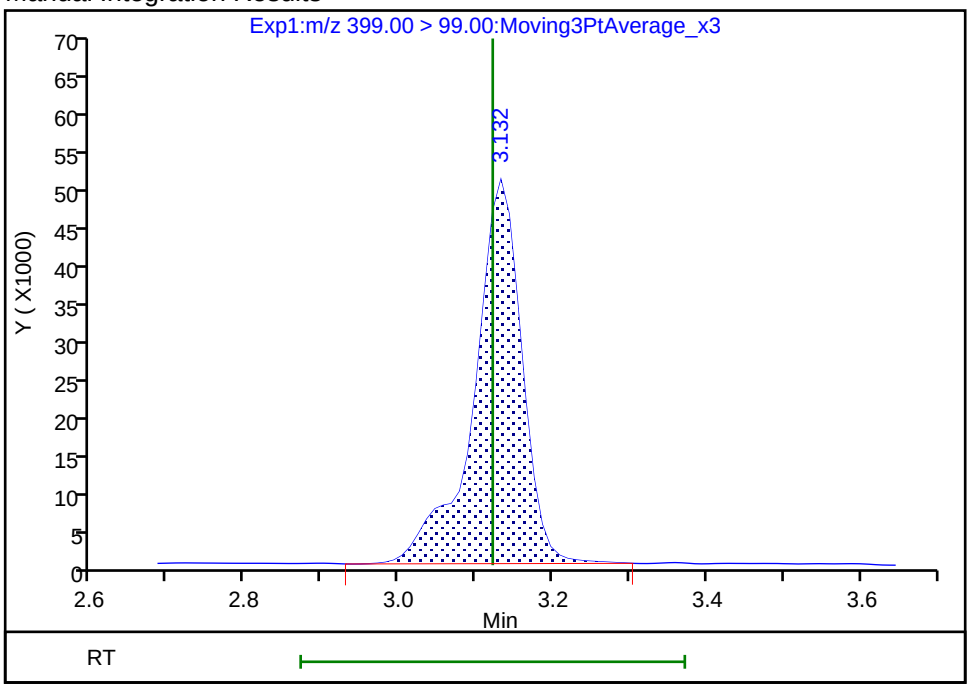
Processing Integration Results

RT: 3.13
Area: 222425
Amount: 0.936449
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 221051
Amount: 0.932008
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:38:57
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

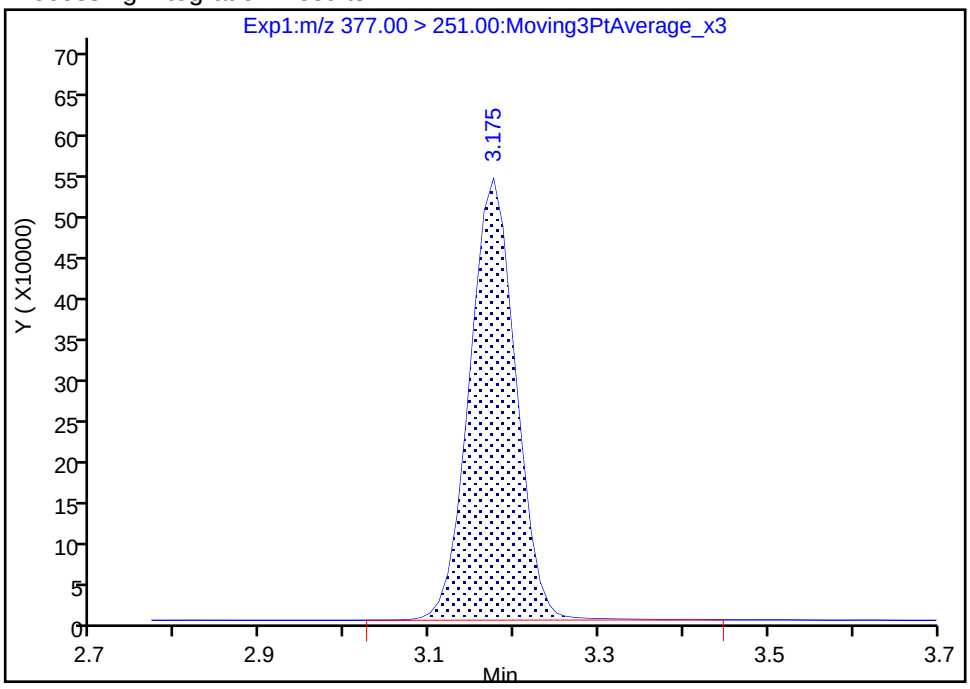
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B01.d
Injection Date: 19-Feb-2021 15:48:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

77 DONA, CAS: 919005-14-4

Signal: 1

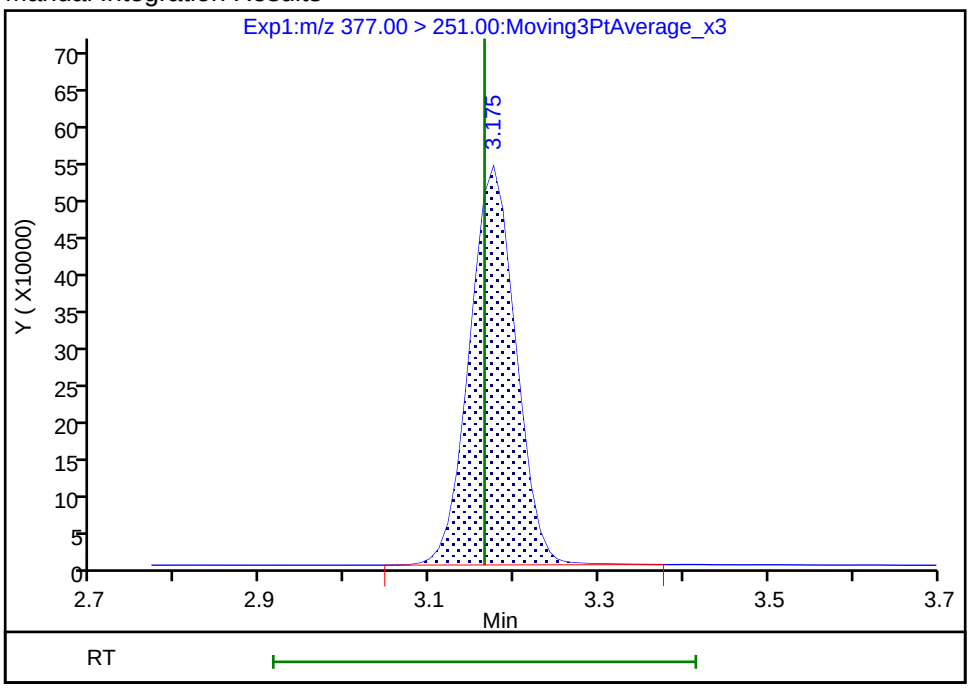
Processing Integration Results

RT: 3.18
Area: 2056564
Amount: 1.009608
Amount Units: ng/ml



Manual Integration Results

RT: 3.18
Area: 2052182
Amount: 1.007457
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:39:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

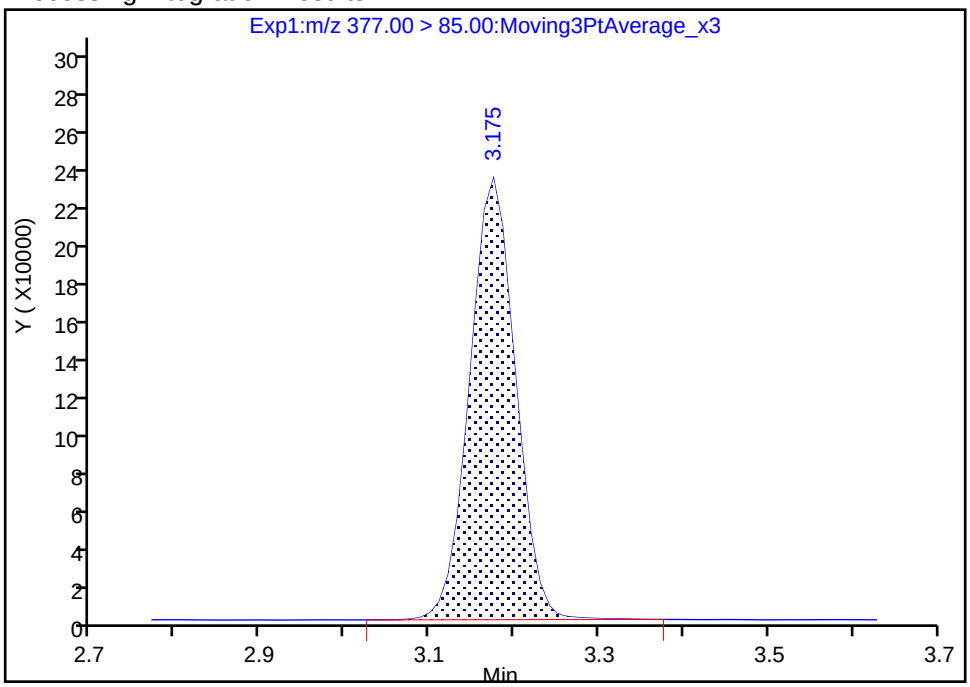
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B01.d
Injection Date: 19-Feb-2021 15:48:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

77 DONA, CAS: 919005-14-4

Signal: 2

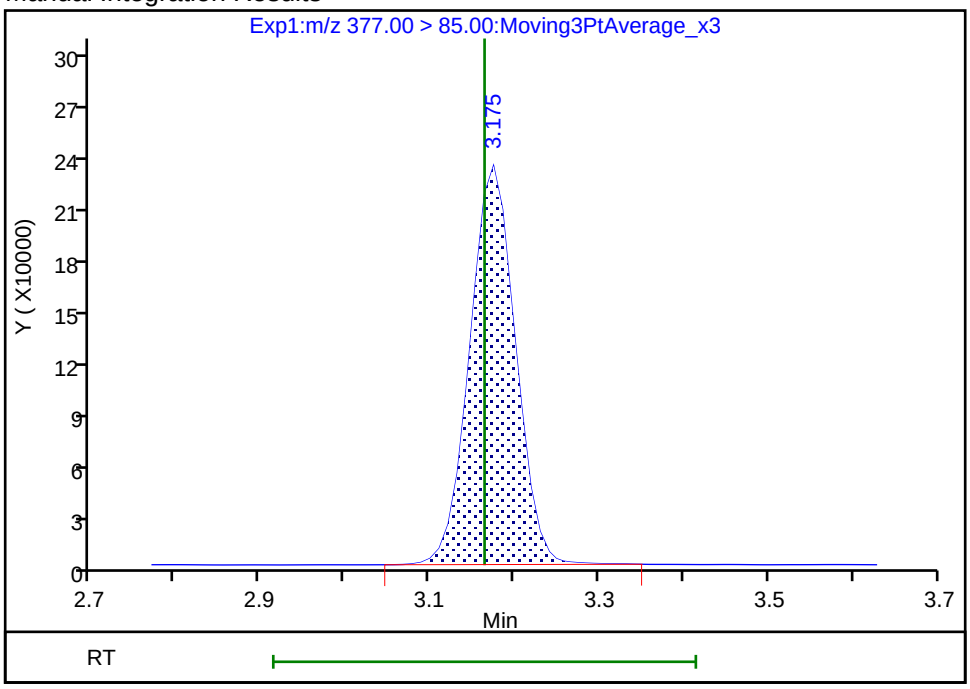
Processing Integration Results

RT: 3.18
Area: 853531
Amount: 1.009608
Amount Units: ng/ml



Manual Integration Results

RT: 3.18
Area: 852372
Amount: 1.007457
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:39:47
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

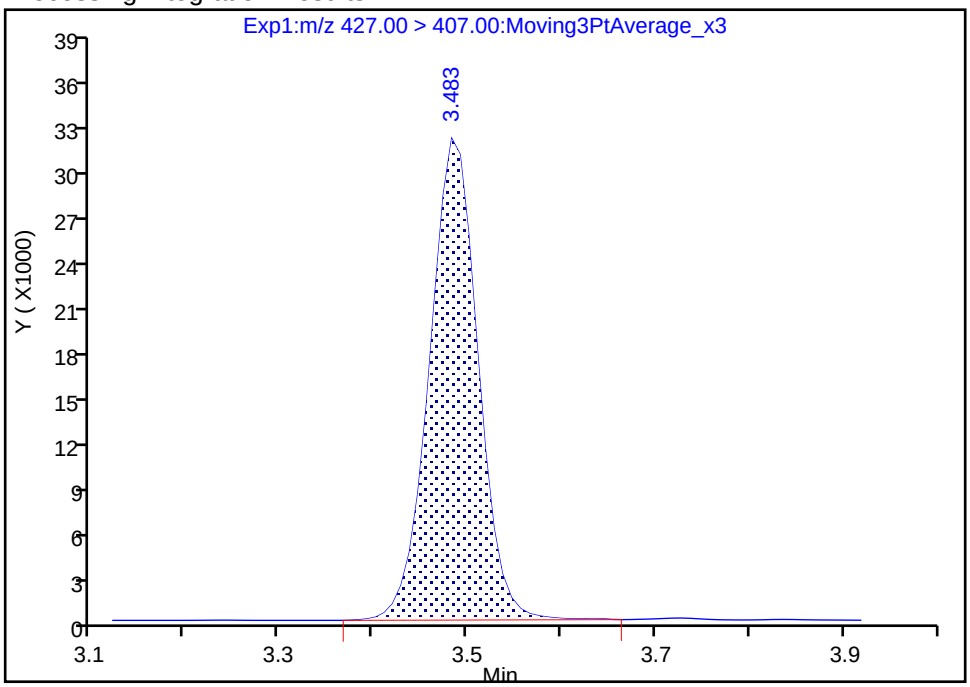
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B01.d				
Injection Date:	19-Feb-2021 15:48:45	Instrument ID:	LC812		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	1
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

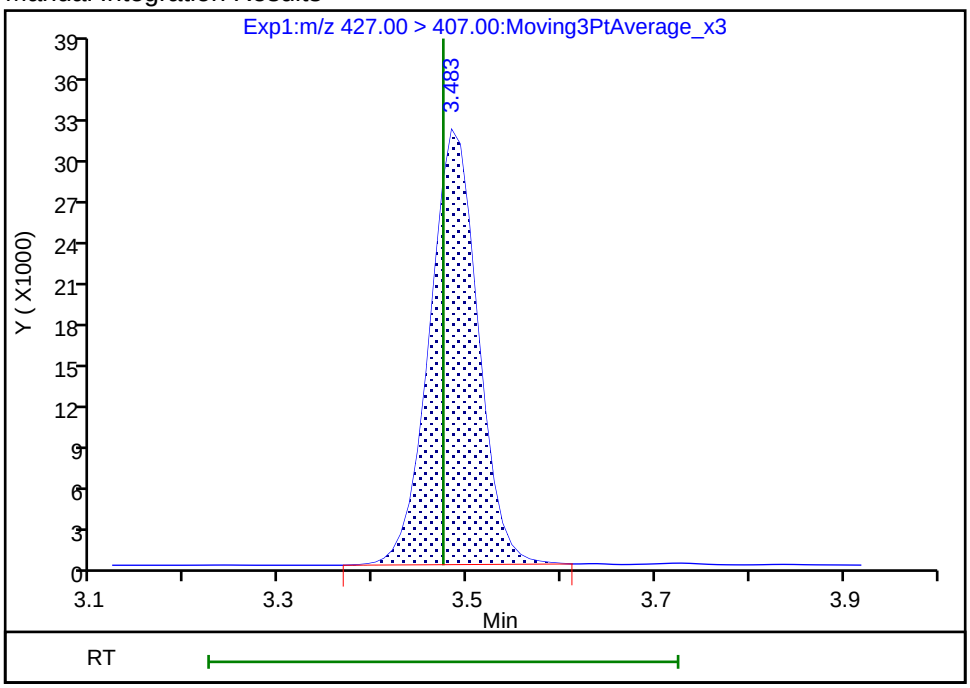
Processing Integration Results

RT: 3.48
Area: 114058
Amount: 0.875510
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 113517
Amount: 0.871358
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:40:13

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

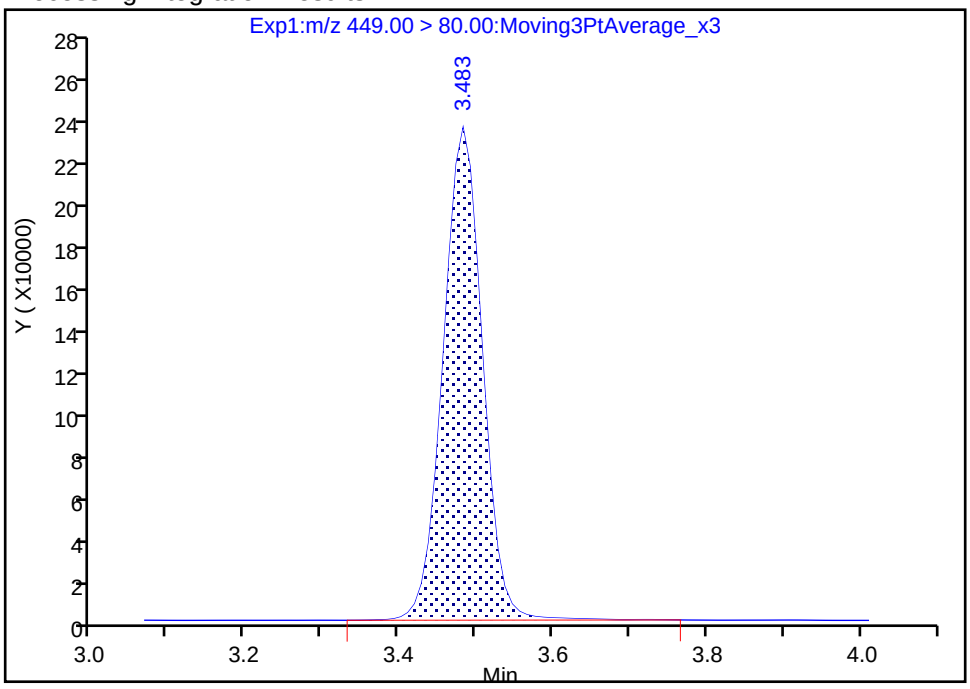
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B01.d				
Injection Date:	19-Feb-2021 15:48:45	Instrument ID:	LC812		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	1
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

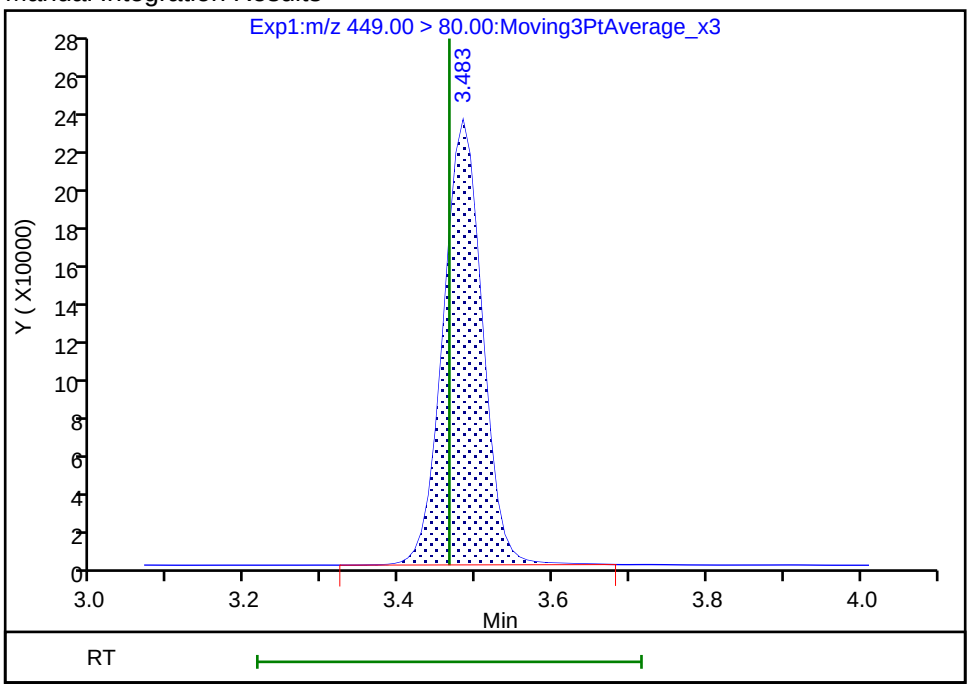
Processing Integration Results

RT: 3.48
Area: 811388
Amount: 0.987883
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 808806
Amount: 0.984739
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:40:00

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

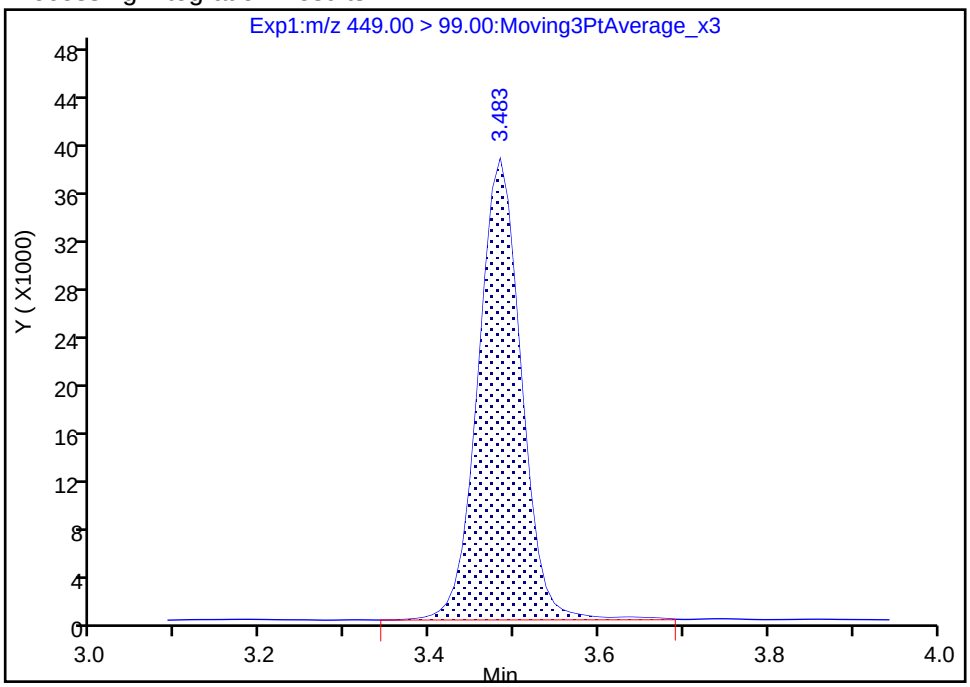
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B01.d				
Injection Date:	19-Feb-2021 15:48:45	Instrument ID:	LC812		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	1
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

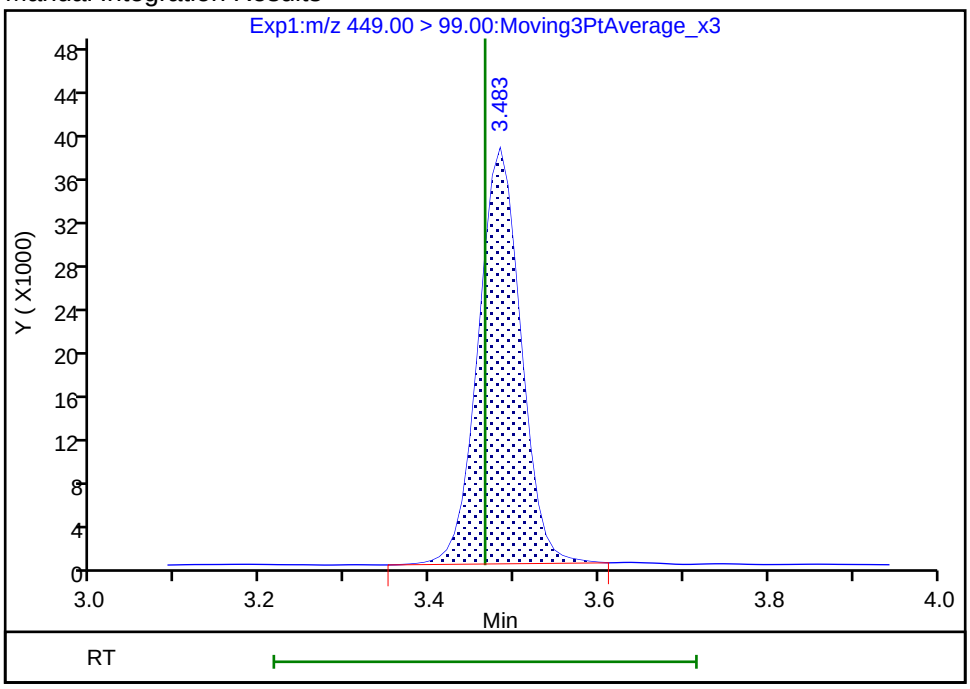
Processing Integration Results

RT: 3.48
Area: 136216
Amount: 0.987883
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 134043
Amount: 0.984739
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:40:07

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

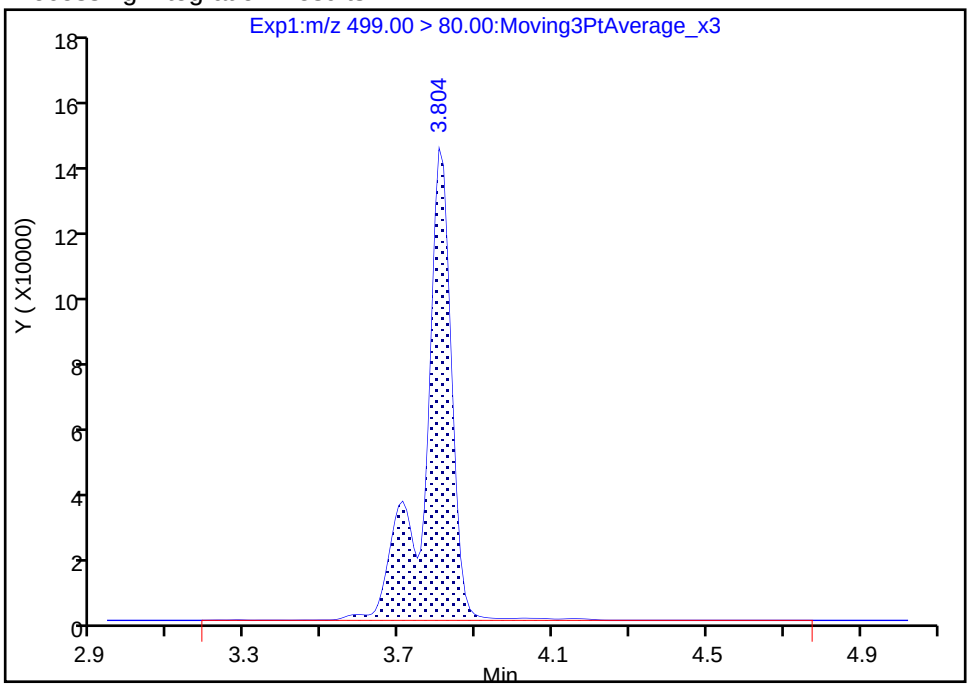
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B01.d				
Injection Date:	19-Feb-2021 15:48:45	Instrument ID:	LC812		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	1
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

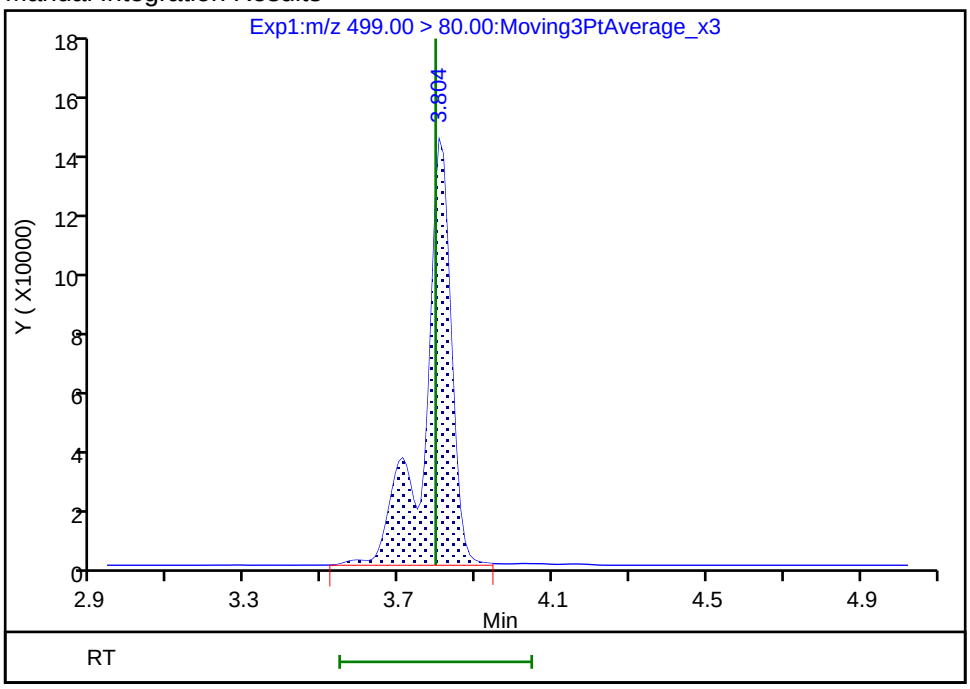
Processing Integration Results

RT: 3.80
Area: 693240
Amount: 0.990865
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 685833
Amount: 0.980278
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:40:32

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

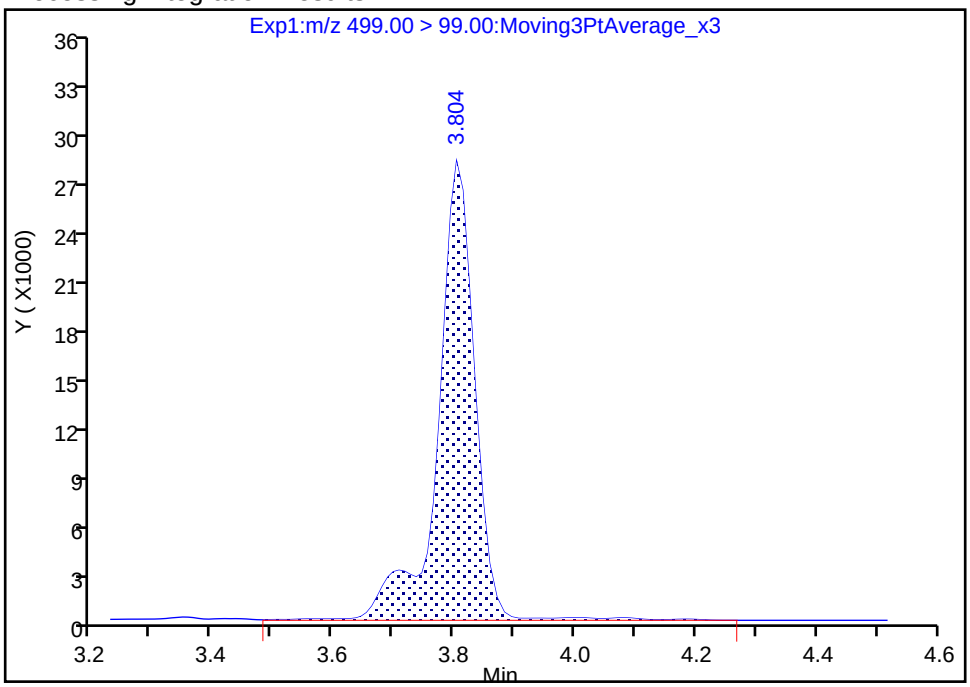
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B01.d
Injection Date: 19-Feb-2021 15:48:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

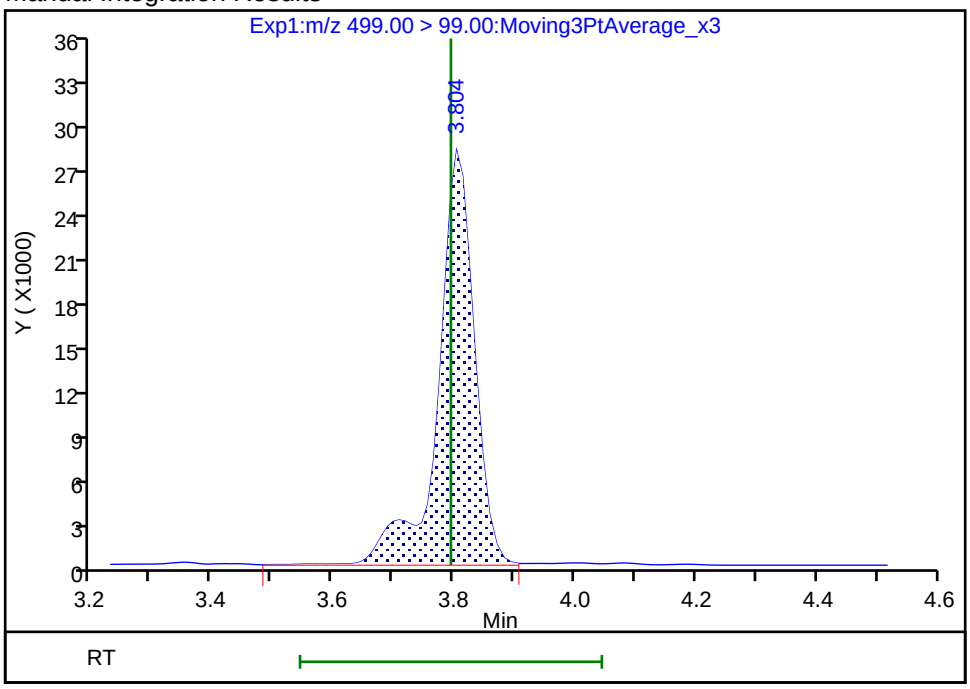
Processing Integration Results

RT: 3.80
Area: 120427
Amount: 0.990865
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 118622
Amount: 0.980278
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:40:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

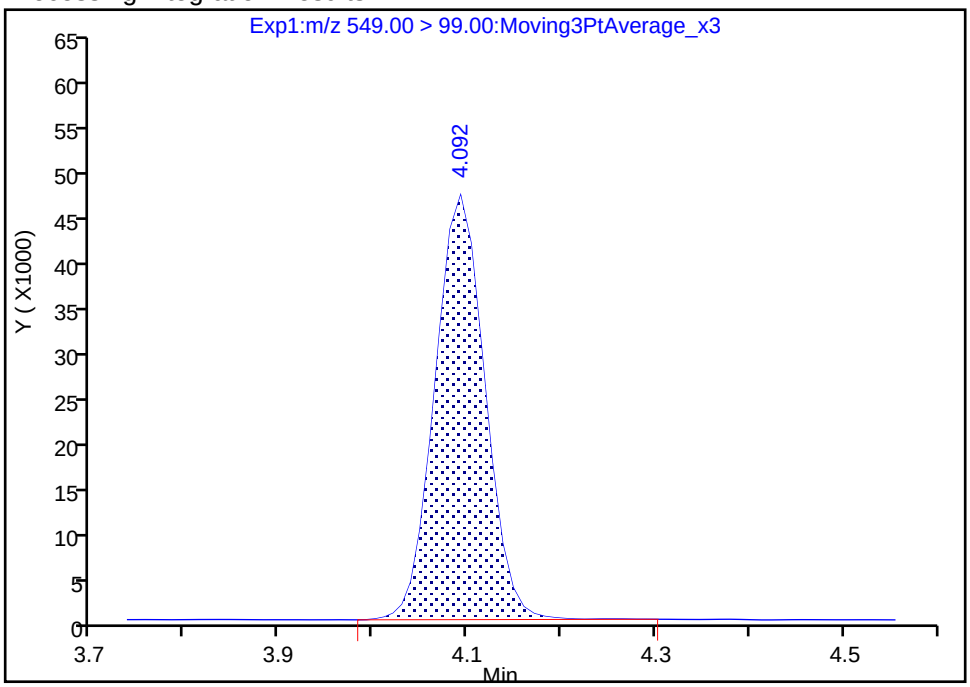
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B01.d
Injection Date: 19-Feb-2021 15:48:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

68 Perfluorononanesulfonic acid, CAS: 68259-12-1

Signal: 2

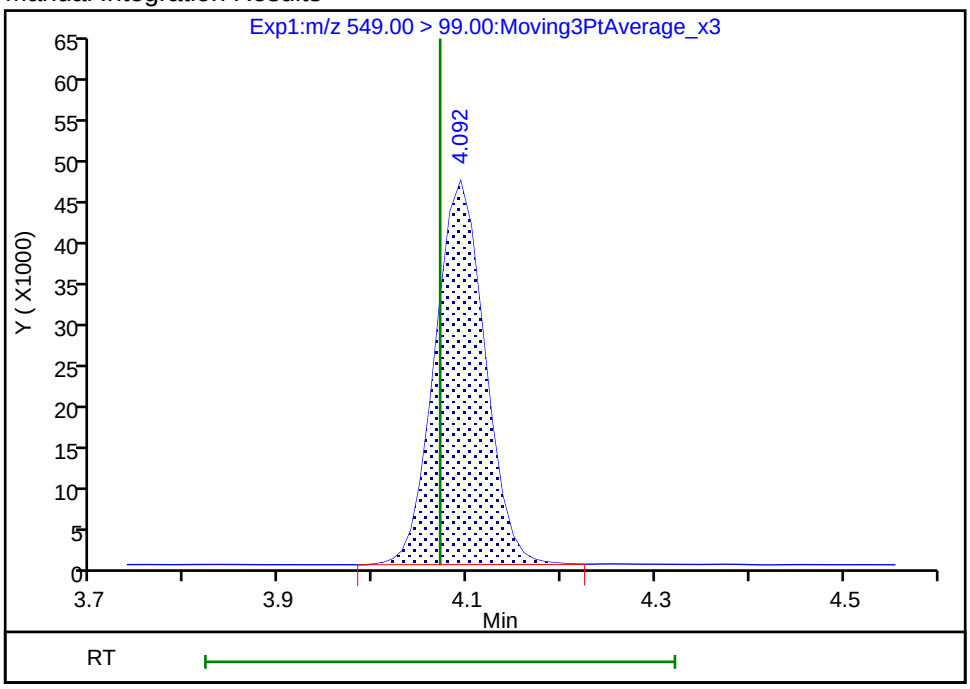
Processing Integration Results

RT: 4.09
Area: 174247
Amount: 1.028192
Amount Units: ng/ml



Manual Integration Results

RT: 4.09
Area: 174120
Amount: 1.028192
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:40:58
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

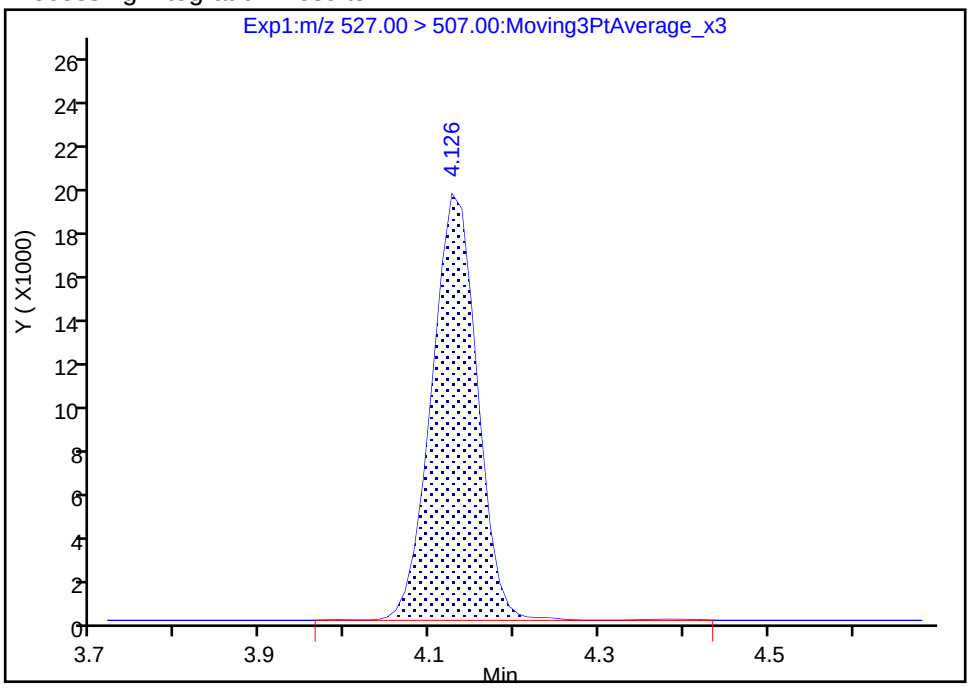
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B01.d
Injection Date: 19-Feb-2021 15:48:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

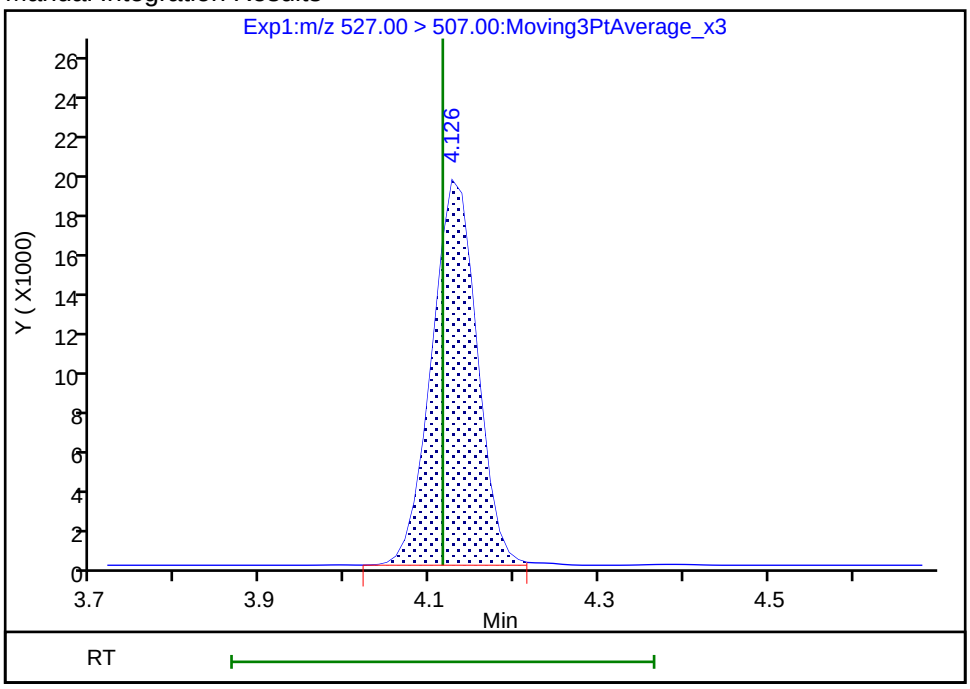
Processing Integration Results

RT: 4.13
Area: 72793
Amount: 0.829355
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 72304
Amount: 0.823784
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:41:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

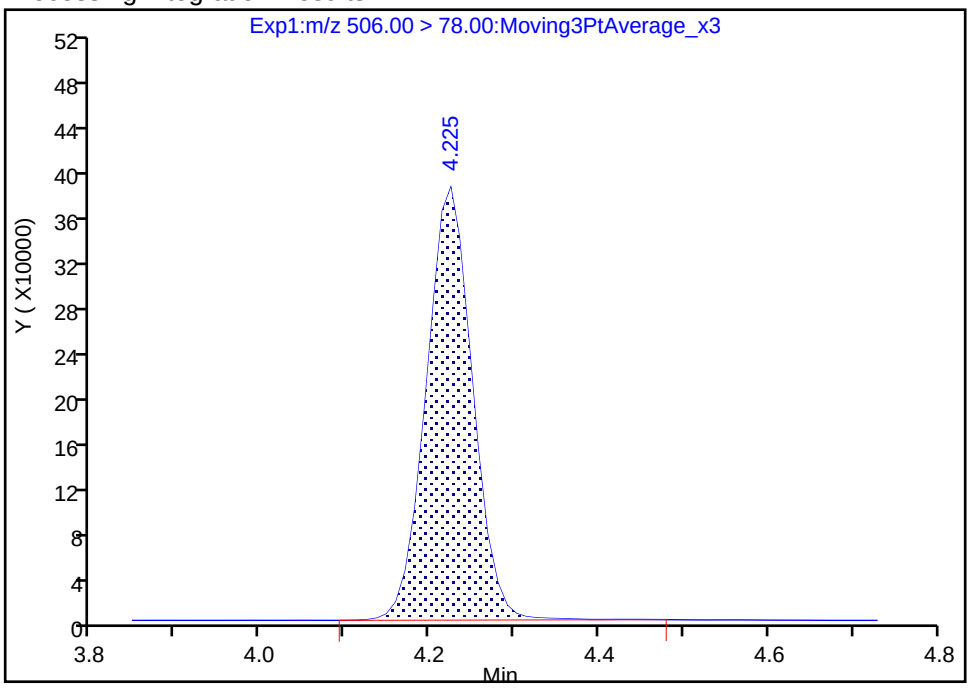
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B01.d				
Injection Date:	19-Feb-2021 15:48:45	Instrument ID:	LC812		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	1
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

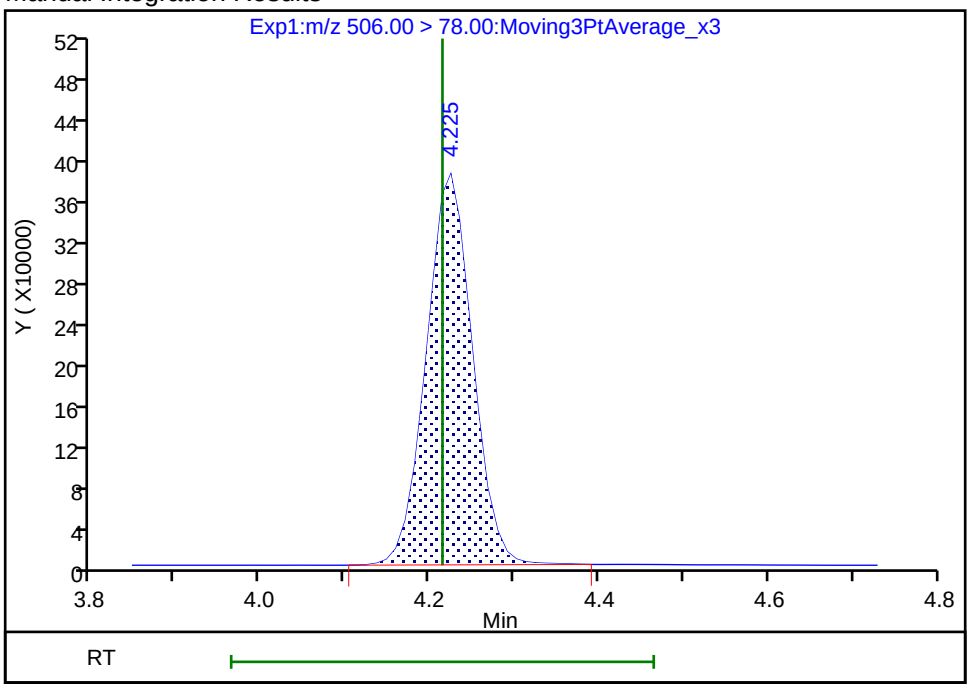
Processing Integration Results

RT: 4.22
Area: 1435279
Amount: 1.138326
Amount Units: ng/ml



Manual Integration Results

RT: 4.22
Area: 1431549
Amount: 1.135368
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:37:38

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

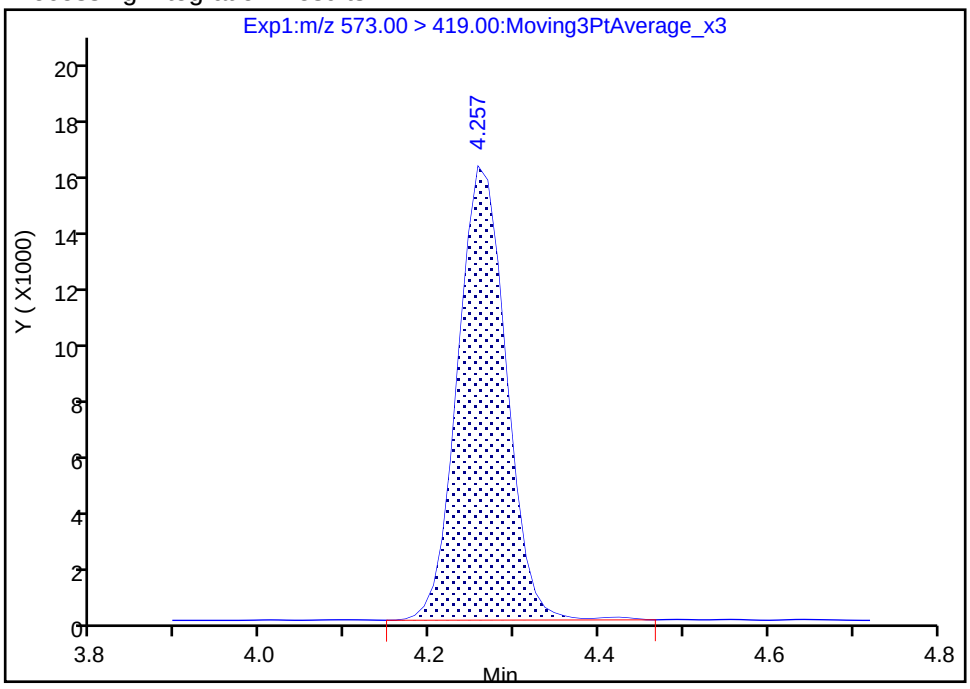
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B01.d				
Injection Date:	19-Feb-2021 15:48:45	Instrument ID:	LC812		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	1
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

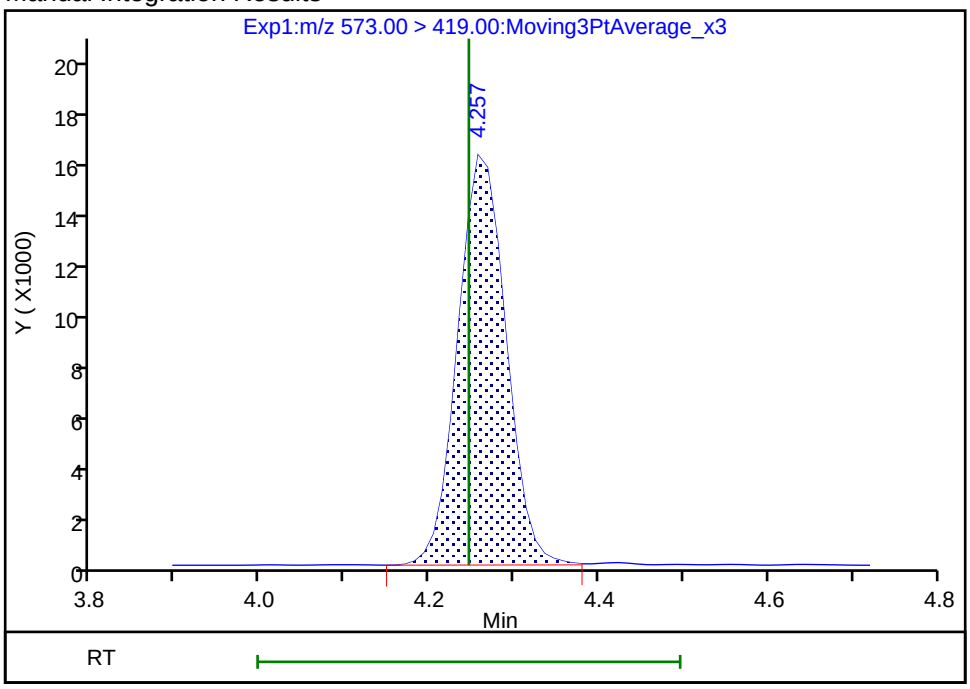
Processing Integration Results

RT: 4.26
Area: 63769
Amount: 1.024976
Amount Units: ng/ml



Manual Integration Results

RT: 4.26
Area: 63520
Amount: 1.020974
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:37:45

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

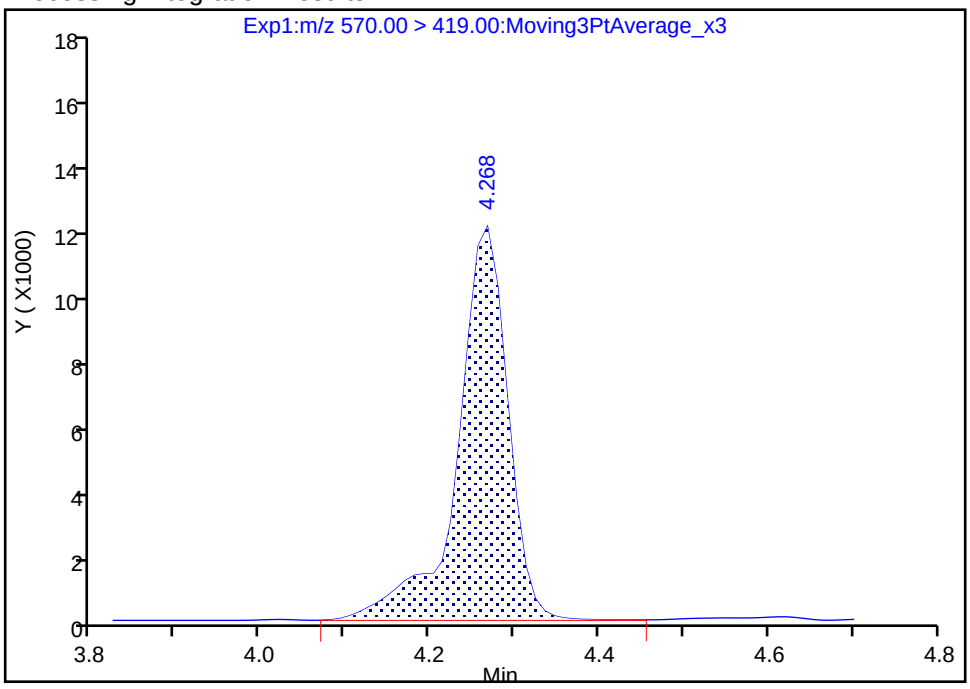
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B01.d				
Injection Date:	19-Feb-2021 15:48:45	Instrument ID:	LC812		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	1
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

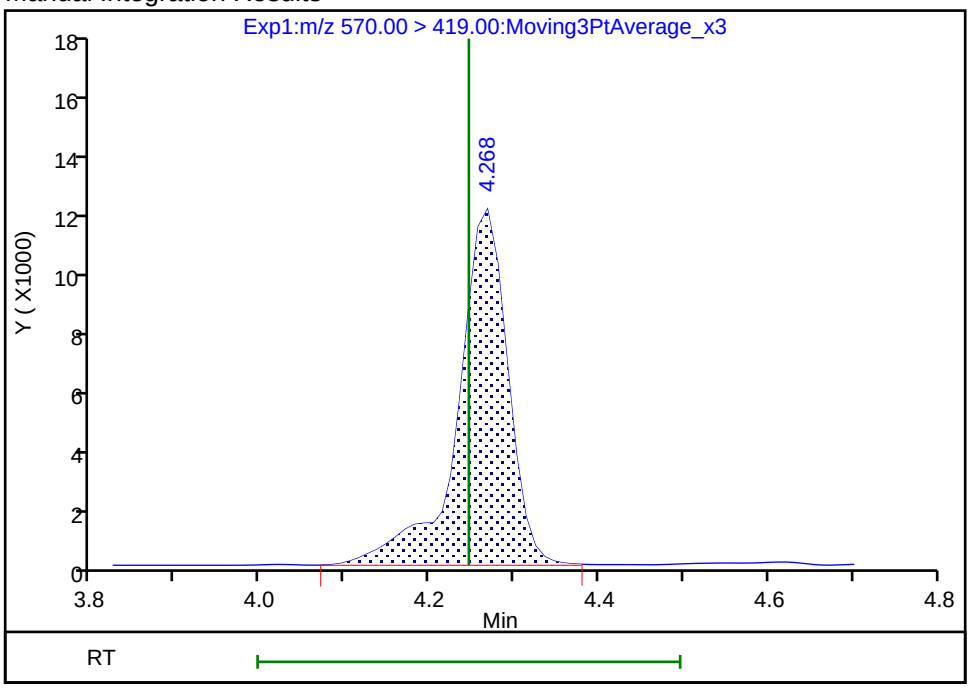
Processing Integration Results

RT: 4.27
Area: 49259
Amount: 1.093633
Amount Units: ng/ml



Manual Integration Results

RT: 4.27
Area: 49160
Amount: 1.091435
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:41:19

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

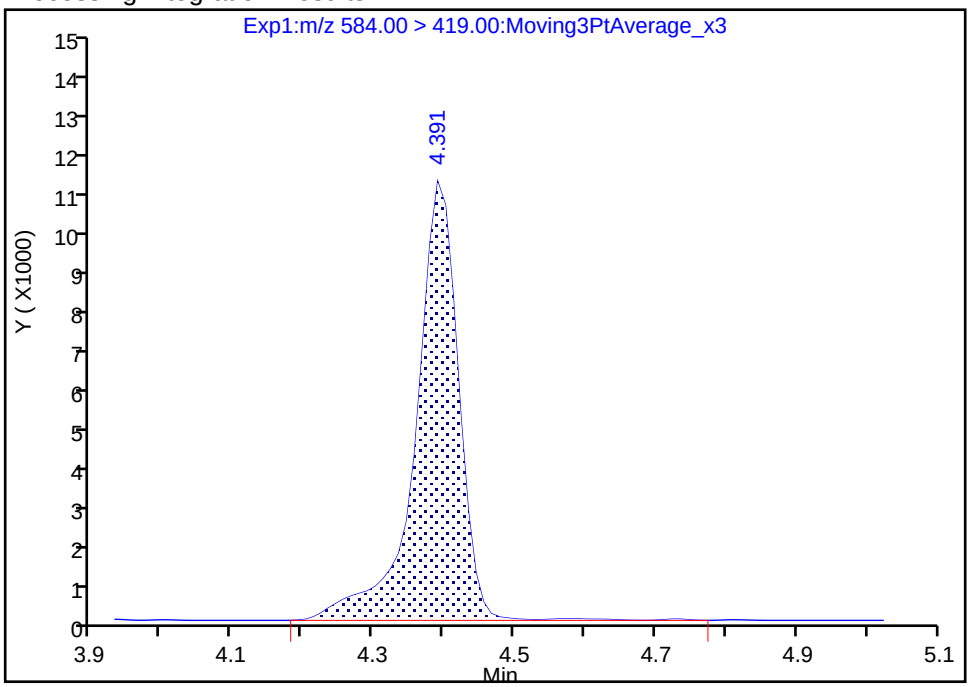
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B01.d
Injection Date: 19-Feb-2021 15:48:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

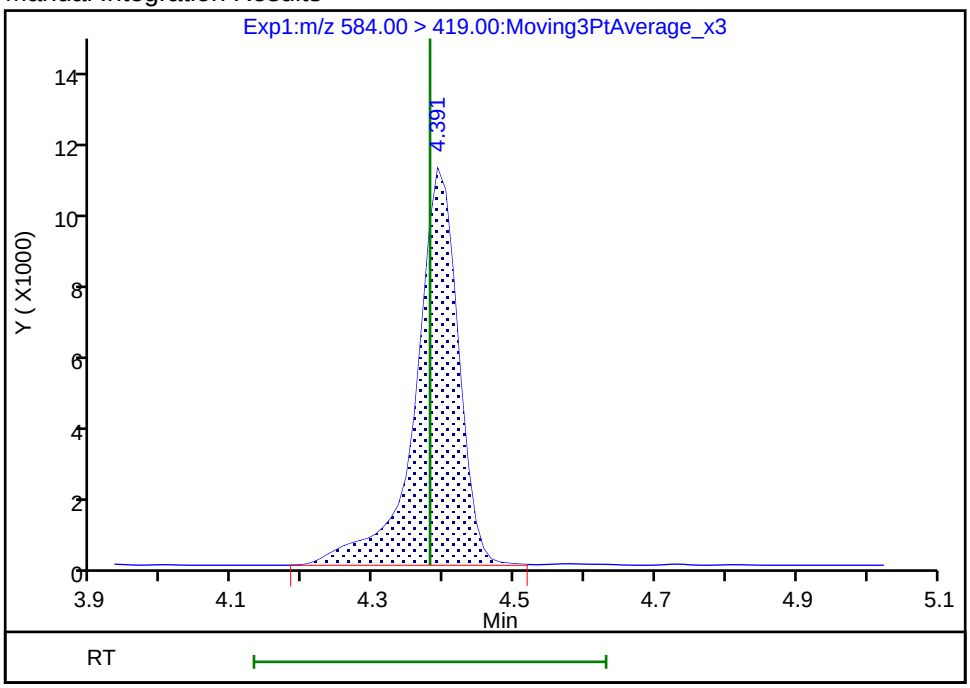
Processing Integration Results

RT: 4.39
Area: 45121
Amount: 1.017999
Amount Units: ng/ml



Manual Integration Results

RT: 4.39
Area: 44846
Amount: 1.011794
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:41:25
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

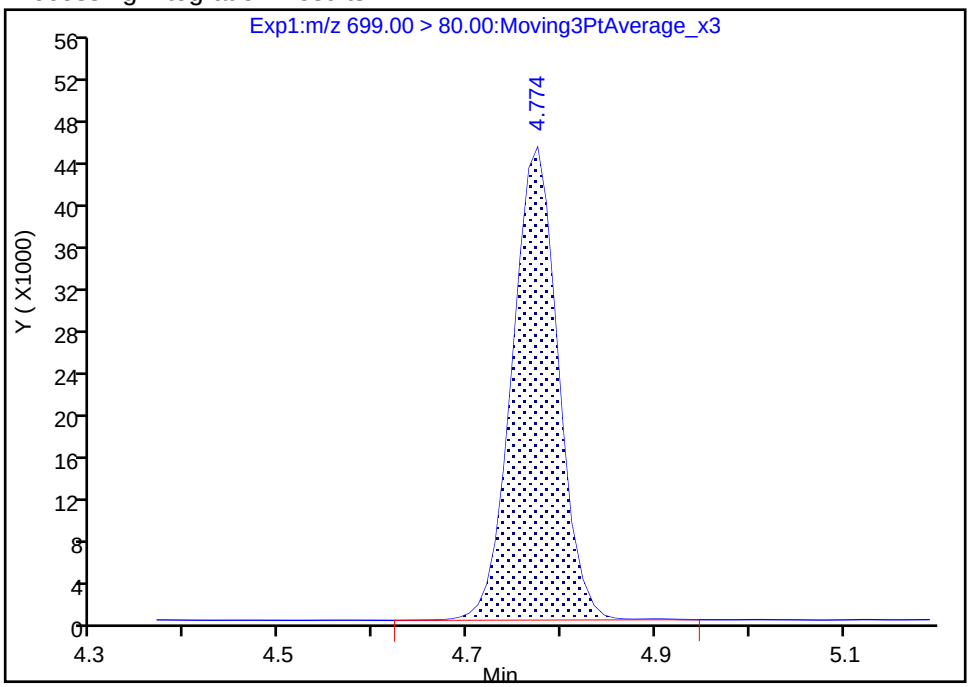
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B01.d				
Injection Date:	19-Feb-2021 15:48:45	Instrument ID:	LC812		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	1
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 1

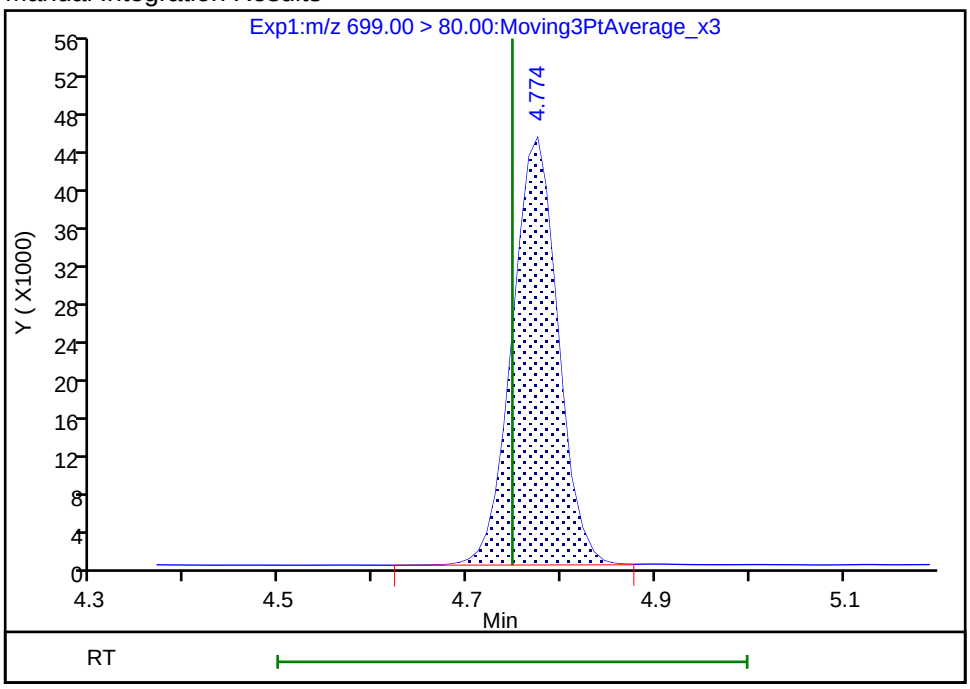
Processing Integration Results

RT: 4.77
Area: 151911
Amount: 0.992202
Amount Units: ng/ml



Manual Integration Results

RT: 4.77
Area: 151740
Amount: 0.991085
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:41:33

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

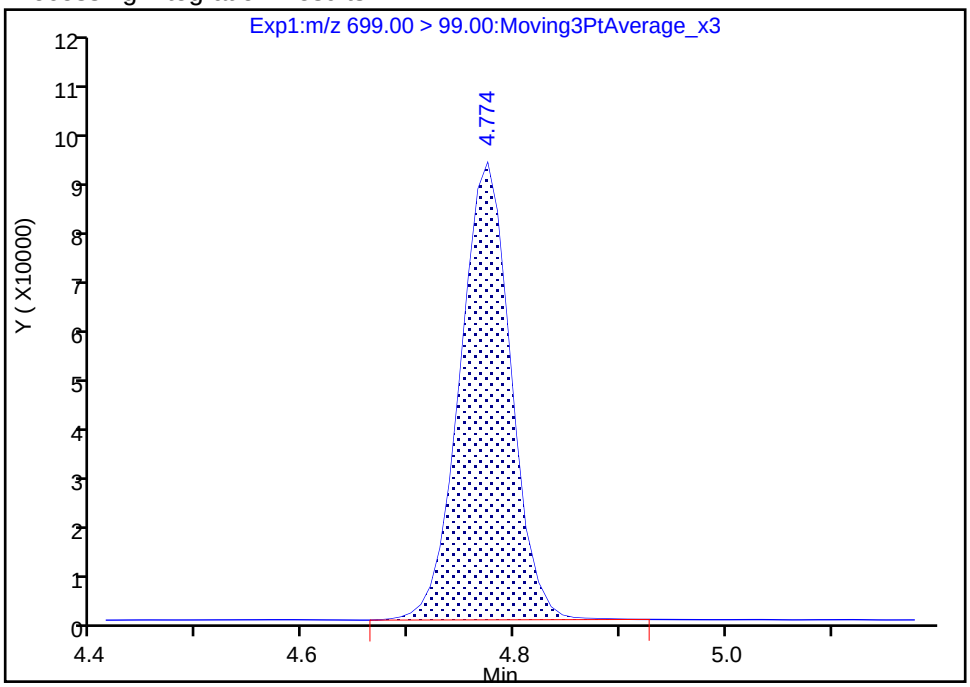
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B01.d
Injection Date: 19-Feb-2021 15:48:45 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

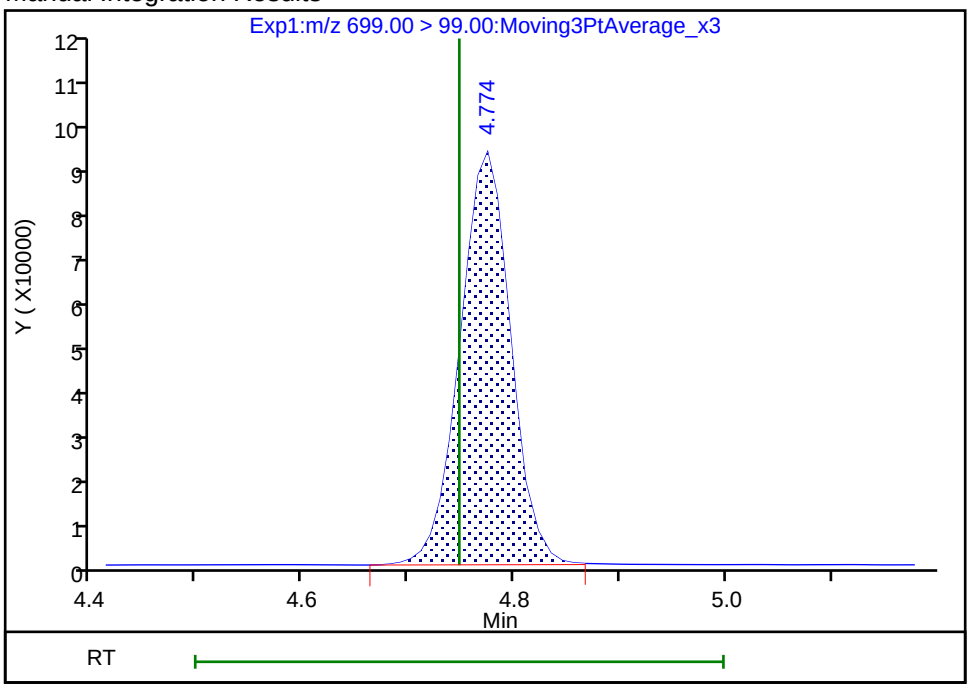
Processing Integration Results

RT: 4.77
Area: 309950
Amount: 0.992202
Amount Units: ng/ml



Manual Integration Results

RT: 4.77
Area: 309624
Amount: 0.991085
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:41:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 200-164133/14 Calibration Date: 02/19/2021 17:36

Instrument ID: LC812 Calib Start Date: 12/22/2020 12:48

GC Column: C-18 ID: 4.60(mm) Calib End Date: 12/22/2020 13:29

Lab File ID: PA210219B14.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.002	0.9735		2.43	2.50	-2.8	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.107	1.097		2.48	2.50	-0.9	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.131	1.149		2.24	2.21	1.6	40.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	1.834	1.745		2.22	2.34	-4.8	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.092	1.121		2.57	2.50	2.6	40.0
Perfluoropentanesulfonic acid	AveID	1.312	1.397		2.50	2.35	6.5	50.0
HFPO-DA	AveID	1.385	1.641		2.96	2.50	18.4	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.092	1.094		2.51	2.50	0.2	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.178	1.210		2.34	2.28	2.7	40.0
DONA	AveID	3.349	3.414		2.40	2.36	2.0	50.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.350	1.314		2.32	2.38	-2.6	50.0
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	AveID	1.112	0.9711		2.07	2.37	-12.7	40.0
Perfluorooctanoic acid (PFOA)	AveID	1.084	1.122		2.59	2.50	3.5	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.150	1.114		2.25	2.32	-3.2	40.0
Perfluorononanoic acid (PFNA)	AveID	1.107	1.140		2.58	2.50	3.0	40.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	1.283	1.105		2.01	2.33	-13.9	50.0
Perfluorononanesulfonic acid	AveID	0.8581	0.8182		2.29	2.40	-4.6	50.0
Perfluorodecanoic acid (PFDA)	AveID	1.031	1.035		2.51	2.50	0.4	40.0
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	AveID	0.6801	0.5131		1.81	2.40	-24.6	40.0
Perfluorooctanesulfonamide (FOSA)	AveID	1.002	1.081		2.70	2.50	7.9	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.8864	0.9900		2.79	2.50	11.7	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6841	0.6422		2.26	2.41	-6.1	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	1.020	1.052		2.58	2.50	3.1	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9257	0.9417		2.54	2.50	1.7	40.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	1.331	1.083		1.92	2.36	-18.7	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.100	1.109		2.52	2.50	0.9	40.0
10:2 FTS	AveID	0.3501	0.2490		1.71	2.41	-28.9	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2517	0.2415		2.32	2.42	-4.0	50.0
Perfluorotridecanoic acid (PFTriA)	AveID	0.8926	0.8966		2.51	2.50	0.5	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1855	0.2111		2.85	2.50	13.8	40.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 200-164133/14 Calibration Date: 02/19/2021 17:36

Instrument ID: LC812 Calib Start Date: 12/22/2020 12:48

GC Column: C-18 ID: 4.60(mm) Calib End Date: 12/22/2020 13:29

Lab File ID: PA210219B14.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-hexadecanoic acid (PFHxDA)	L1ID		0.9431		2.52	2.50	0.7	40.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8998	0.8415		2.34	2.50	-6.5	50.0
13C4 PFBA	Ave	1.343	1.250		1.16	1.25	-6.9	50.0
13C5 PFPeA	Ave	0.9710	0.9185		1.18	1.25	-5.4	50.0
13C3 PFBS	Ave	1.278	1.160		1.06	1.16	-9.2	50.0
M2-4:2 FTS	Ave	0.1066	0.0925		1.01	1.17	-13.3	50.0
13C2 PFHxA	Ave	1.018	0.9674		1.19	1.25	-4.9	50.0
13C3 HFPO-DA	Ave	0.1792	0.1145		0.799	1.25	-36.1	50.0
13C4 PFHpA	Ave	0.9742	0.9322		1.20	1.25	-4.3	50.0
18O2 PFHxS	Ave	0.9511	0.8598		1.07	1.18	-9.6	50.0
M2-6:2 FTS	Ave	0.1187	0.1182		1.18	1.19	-0.4	50.0
13C4 PFOA	Ave	0.9896	0.8992		1.14	1.25	-9.1	50.0
13C4 PFOS	Ave	0.6528	0.6240		1.14	1.20	-4.4	50.0
13C5 PFNA	Ave	0.8730	0.7767		1.11	1.25	-11.0	50.0
13C2 PFDA	Ave	0.8346	0.7522		1.13	1.25	-9.9	50.0
M2-8:2 FTS	Ave	0.1225	0.1264		1.24	1.20	3.2	50.0
13C8 FOSA	Ave	1.227	1.103		1.12	1.25	-10.1	50.0
d3-NMeFOSAA	Ave	0.0605	0.0455		0.939	1.25	-24.9	50.0
13C2 PFUnA	Ave	0.6856	0.5764		1.05	1.25	-15.9	50.0
d5-NEtFOSAA	Ave	0.0585	0.0456		0.975	1.25	-22.0	50.0
13C2 PFDoA	Ave	0.7238	0.5905		1.02	1.25	-18.4	50.0
13C2 PFTeDA	Ave	0.5353	0.4444		1.04	1.25	-17.0	50.0
13C2 PFHxDA	Ave	0.5718	0.4151		0.907	1.25	-27.4	50.0

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B14.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 19-Feb-2021 17:36:20 ALS Bottle#: 29 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: 200-0044899-014 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812
Sublist: chrom-PFC_LC812*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 23-Feb-2021 11:35:30 Calib Date: 22-Dec-2020 13:29:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1628

First Level Reviewer: khanphomeea Date: 22-Feb-2021 10:57:09
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.082	2.082	0.0	0.596	1276737	1.16		93.1	9438	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.082	2.082	0.0	1.000	2485910	2.43		97.2	575	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.400	2.400	0.0	0.687	938128	1.18		94.6	3020	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.413	2.400	0.013	1.005	2059011	2.48		99.1	108	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.426	2.426	0.0	0.695	1101688	1.06		90.8	198430	M
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.426	2.426	0.0	1.000	2406364	2.24	Target=2.21	102	3673	
298.90 > 99.00	2.426	2.426	0.0	1.000	1052014		2.29(1.11-3.32)		677	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.734	2.722	0.012	0.783	88200	1.01		86.7	111	M
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.734	2.722	0.012	1.000	307796	2.22		95.2	1942	
D 7 13C2 PFHxA										
315.00 > 270.00	2.758	2.758	0.0	0.790	988061	1.19		95.1	2560	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.770	2.758	0.012	1.004	2214979	2.57	Target=12.83	103	517	M
313.00 > 119.00	2.770	2.758	0.012	1.004	179016		12.37(6.42-19.25)		338	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.770	2.758	0.012	0.884	2301822	2.50	Target=3.35	106	2599	
349.00 > 99.00	2.770	2.758	0.012	0.884	668257		3.44(1.67-5.02)		842	
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.868	2.868	0.0	1.000	383911	2.96		118	82.4	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.868	2.868	0.0	0.821	116998	0.7991		63.9	864	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.132	3.122	0.010	1.000	1933765	2.34	Target=4.15	103	2266	M
399.00 > 99.00	3.132	3.122	0.010	1.000	437935		4.42(2.08-6.23)		443	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.132	3.122	0.010	0.897	830782	1.07		90.4	1573	
D 9 13C4 PFHpA										
367.00 > 322.00	3.132	3.122	0.010	0.897	952186	1.20		95.7	2327	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.132	3.122	0.010	1.000	2084061	2.50	Target=3.66	100	653	
363.00 > 169.00	3.132	3.122	0.010	1.000	588043		3.54(1.83-5.49)		1102	
77 DONA										
377.00 > 251.00	3.175	3.164	0.011	0.835	4099247	2.40	Target=2.43	102	3077	
377.00 > 85.00	3.164	3.164	0.0	0.832	1610018		2.55(1.22-3.65)		1586	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.474	3.465	0.009	0.913	1594993	2.32	Target=5.95	97.4	2255	M
449.00 > 99.00	3.474	3.465	0.009	0.913	253056		6.30(2.98-8.93)		782	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.483	3.474	0.009	0.997	114690	1.18		99.6	361	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.483	3.474	0.009	1.000	222272	2.07		87.3	825	
D 14 13C4 PFOA										
417.00 > 372.00	3.492	3.483	0.009	1.000	918435	1.14		90.9	2987	
* 62 13C2 PFOA										
415.00 > 370.00	3.492	3.483	0.009		1021389	1.25			642	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.492	3.483	0.009	1.000	2060989	2.59	Target=2.58	104	581	
413.00 > 169.00	3.492	3.483	0.009	1.000	822155		2.51(1.29-3.87)		1425	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.804	3.794	0.010	1.000	1317107	2.25	Target=5.65	96.8	1157	M
499.00 > 99.00	3.804	3.794	0.010	1.000	223899		5.88(2.82-8.47)		546	M
D 18 13C4 PFOS										
503.00 > 80.00	3.804	3.794	0.010	1.089	609270	1.14		95.6	1876	
D 19 13C5 PFNA										
468.00 > 423.00	3.824	3.814	0.010	1.095	793291	1.11		89.0	2714	
20 Perfluorononanoic acid										
463.00 > 419.00	3.824	3.814	0.010	1.000	1808798	2.57	Target=7.44	103	508	
463.00 > 169.00	3.824	3.814	0.010	1.000	266396		6.79(3.72-11.16)		1786	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.964	3.955	0.009	1.042	1313093	2.01		86.1	2404	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.092	4.071	0.021	1.076	1001210	2.29	Target=2.54	95.4	4455	
549.00 > 99.00	4.092	4.071	0.021	1.076	353536		2.83(1.27-3.81)		963	
D 23 13C2 PFDA										
515.00 > 470.00	4.115	4.104	0.011	1.178	768324	1.13		90.1	6803	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.115	4.104	0.011	1.000	1590198	2.51	Target=9.29	100	1159	
513.00 > 169.00	4.115	4.104	0.011	1.000	189942		8.37(4.64-13.93)		1086	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.126	4.115	0.011	1.182	123709	1.24		103	599	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.126	4.115	0.011	1.000	126953	1.81		75.4	1359	
D 21 13C8 FOSA										
506.00 > 78.00	4.214	4.215	-0.001	1.207	1126482	1.12		89.9	5588	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.214	4.215	-0.001	1.000	2435318	2.70		108	3415	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.257	4.246	0.011	1.219	46432	0.9387		75.1	97.7	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.257	4.246	0.011	1.000	91937	2.79		112	595	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.347	4.336	0.011	1.143	789041	2.26	Target=2.80	93.9	2212	
599.00 > 99.00	4.347	4.336	0.011	1.143	304497		2.59(1.40-4.19)		1509	
D 30 13C2 PFUnA										
565.00 > 520.00	4.380	4.358	0.022	1.254	588729	1.05		84.1	4068	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.380	4.358	0.022	1.000	1238309	2.58	Target=8.12	103	790	
563.00 > 169.00	4.380	4.358	0.022	1.000	160470		7.72(4.06-12.18)		1284	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.391	4.369	0.022	1.257	46603	0.9746		78.0	423	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.391	4.380	0.011	1.000	87775	2.54		102	573	M
66 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.467	4.456	0.011	1.174	1300359	1.92		81.3	2531	
D 36 13C2 PFDoA										
615.00 > 570.00	4.601	4.591	0.010	1.318	603103	1.02		81.6	3136	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.601	4.591	0.010	1.000	1337928	2.52	Target=6.91	101	504	
613.00 > 169.00	4.601	4.591	0.010	1.000	212946		6.28(3.45-10.36)		2025	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.622	4.601	0.021	1.120	61982	1.71		71.1	1202	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.765	4.748	0.017	1.253	297963	2.32	Target=0.51	96.0	1764	
699.00 > 99.00	4.765	4.748	0.017	1.253	598389		0.50(0.26-0.77)		1862	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.801	4.784	0.017	1.043	1081531	2.51	Target=4.39	100	512	
663.00 > 169.00	4.801	4.784	0.017	1.043	258873		4.18(2.20-6.59)		1975	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.985	4.966	0.019	1.428	453912	1.04		83.0	2074	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.985	4.966	0.019	1.000	191604	2.85	Target=1.06	114	3944	
713.00 > 219.00	4.985	4.966	0.019	1.000	179652		1.07(0.53-1.59)		1919	

Report Date: 23-Feb-2021 11:35:30 Chrom Revision: 2.3 05-Feb-2021 00:13:28
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B14.d
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.315	5.293	0.022	1.522	423962	0.9074		72.6	2268	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.327	5.293	0.034	1.002	799672	2.52	Target=3.84	101	367	
813.00 > 169.00	5.315	5.293	0.022	1.000	220242		3.63(1.92-5.76)		3135	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.628	5.592	0.036	1.059	713518	2.34	Target=3.92	93.5	735	
913.00 > 169.00	5.619	5.592	0.027	1.057	209641		3.40(1.96-5.88)		1417	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

PFAS32NCIC5_00013 Amount Added: 100.00 Units: uL

Report Date: 23-Feb-2021 11:35:30 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B14.d

Injection Date: 19-Feb-2021 17:36:20 Instrument ID: LC812

Lims ID: CCV L5

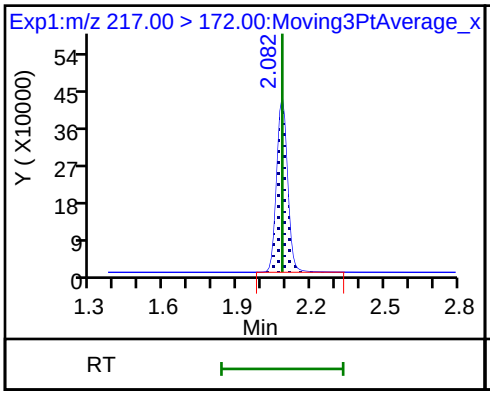
Client ID:

Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 14

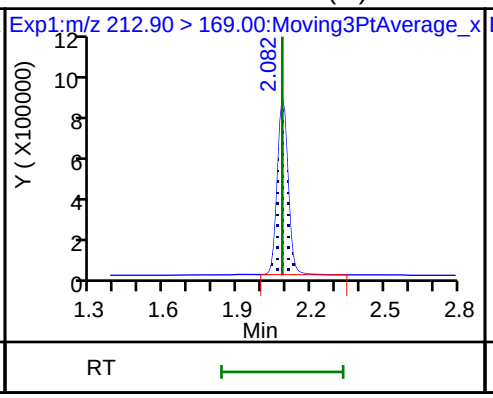
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

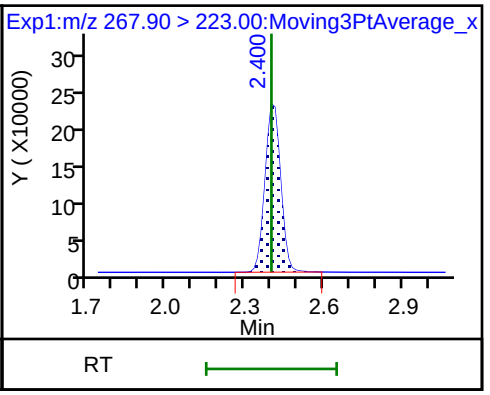
D 1 13C4 PFBA



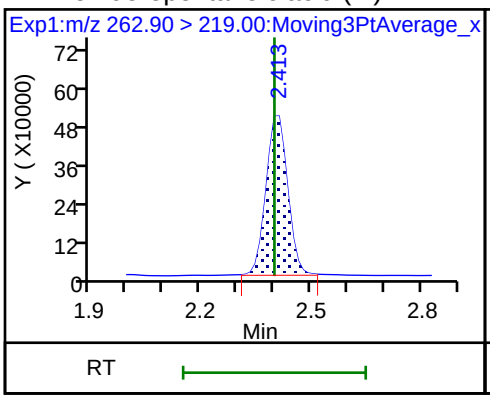
2 Perfluorobutanoic acid (M)



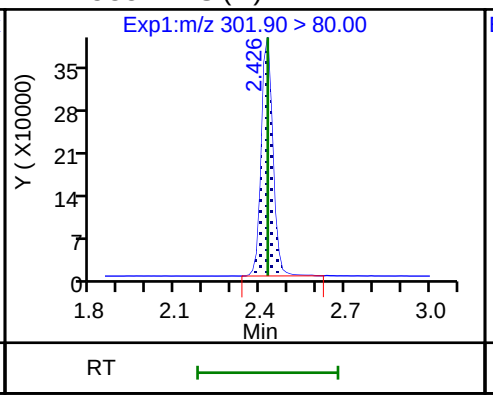
D 3 13C5 PFPeA



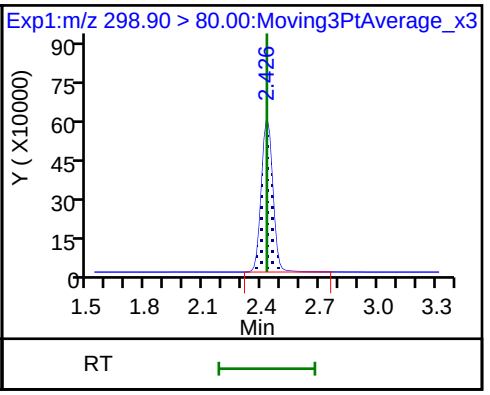
4 Perfluoropentanoic acid (M)



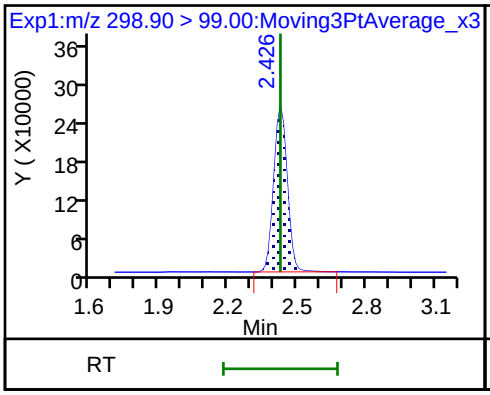
D 47 13C3 PFBS (M)



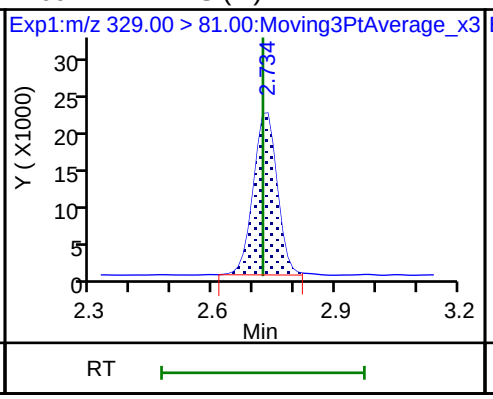
5 Perfluorobutanesulfonic acid



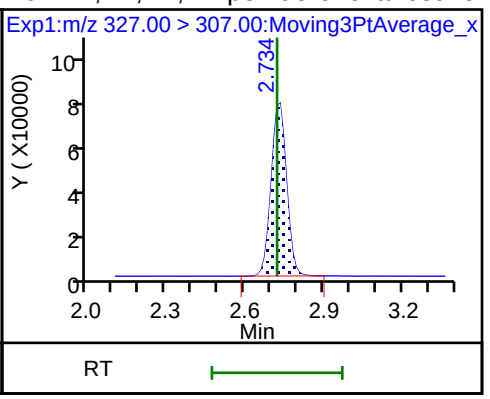
5 Perfluorobutanesulfonic acid



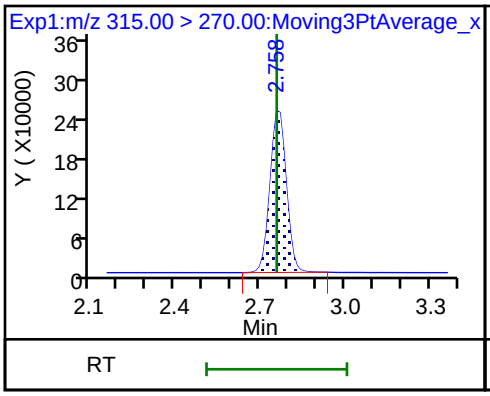
D 60 M2-4:2 FTS (M)



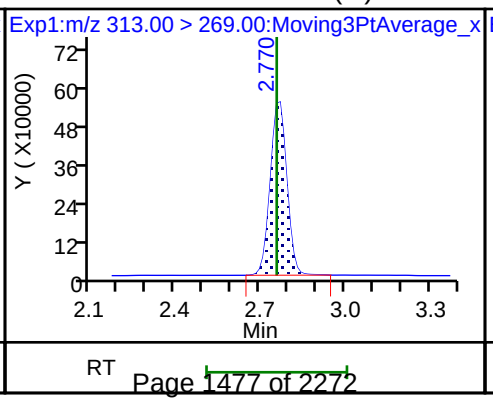
61 1H,1H,2H,2H-perfluorohexanesulfo



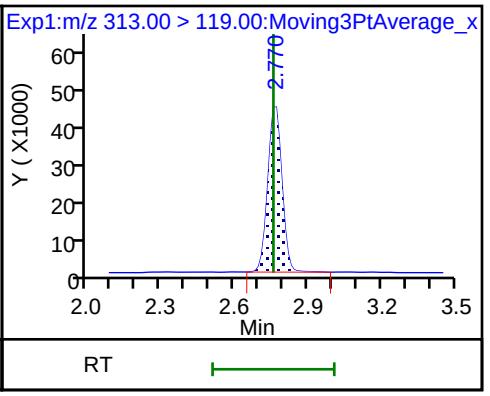
D 7 13C2 PFHxA



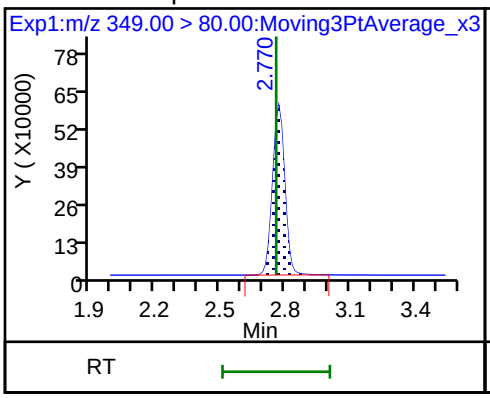
6 Perfluorohexanoic acid (M)



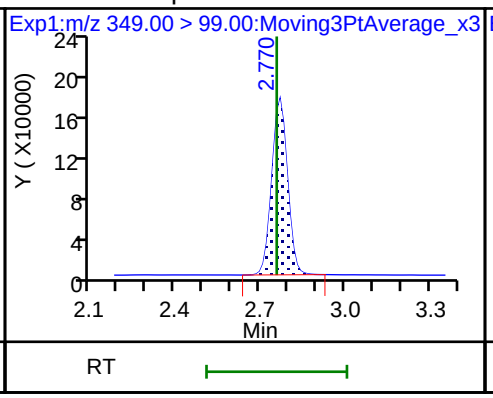
6 Perfluorohexanoic acid



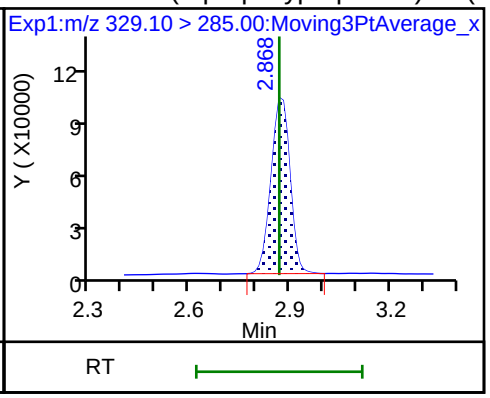
70 Perfluoropentanesulfonic acid



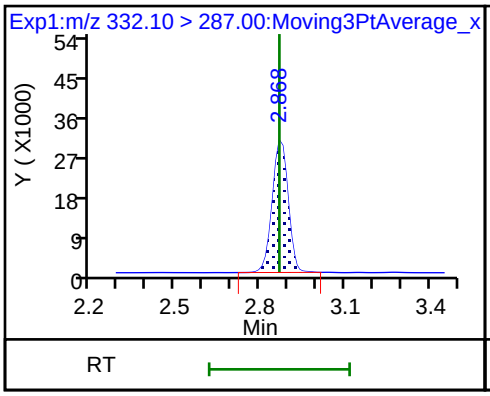
70 Perfluoropentanesulfonic acid



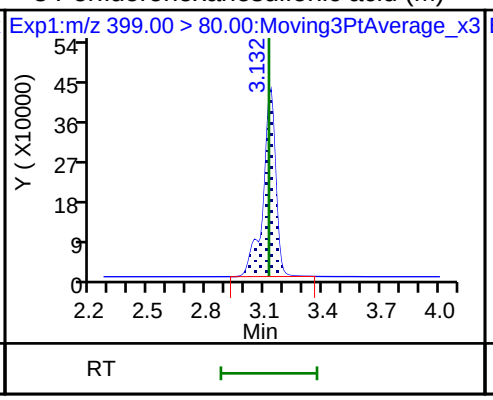
67 Perfluoro(2-propoxypropanoic) ac (M)



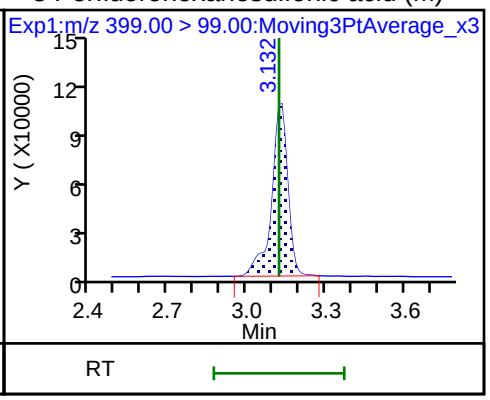
D 64 13C3 HFPO-DA



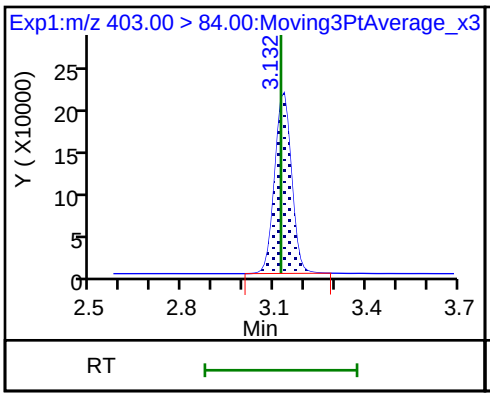
8 Perfluorohexanesulfonic acid (M)



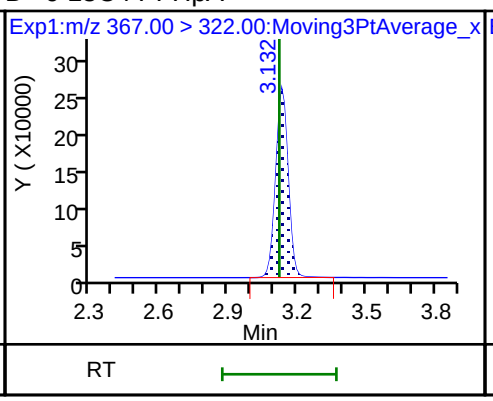
8 Perfluorohexanesulfonic acid (M)



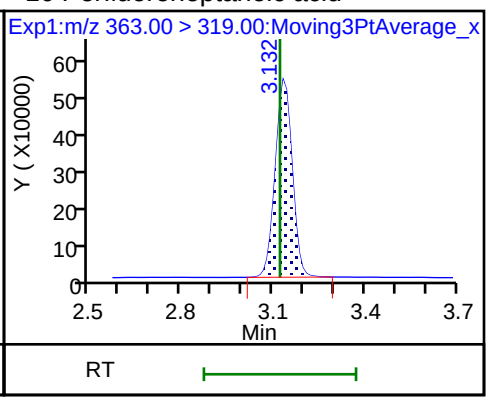
D 11 18O2 PFHxS



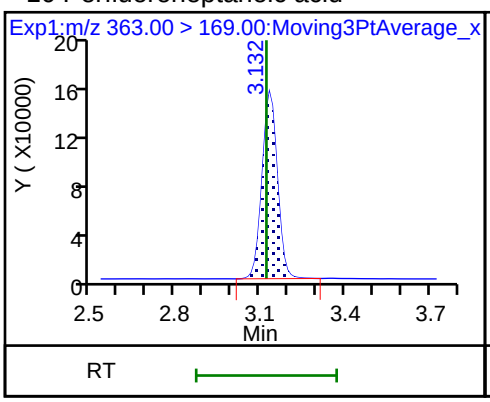
D 9 13C4 PFHpA



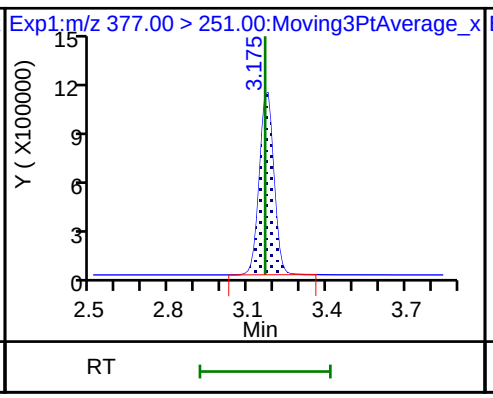
10 Perfluoroheptanoic acid



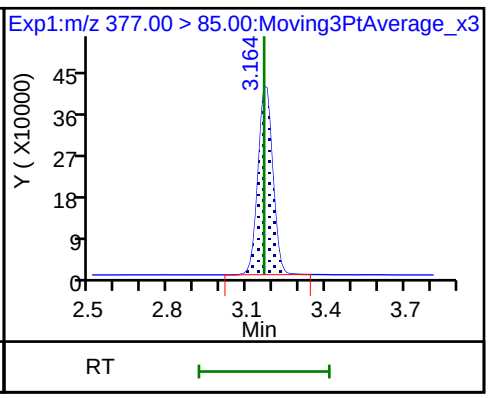
10 Perfluoroheptanoic acid



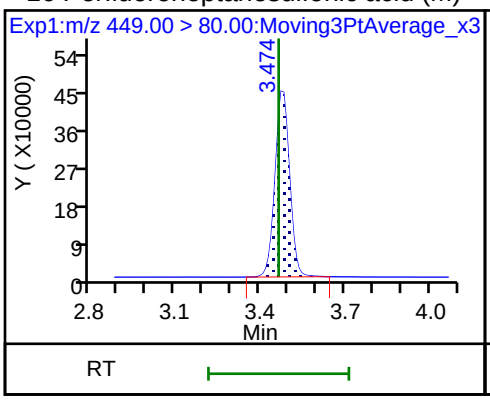
77 DONA



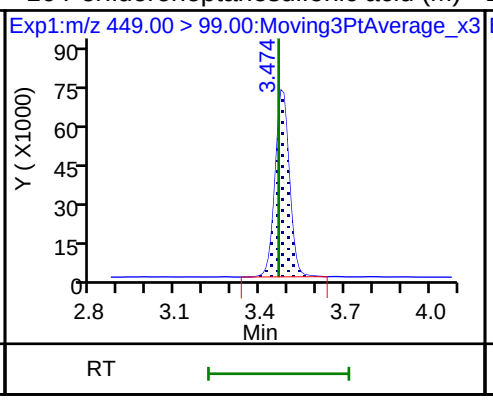
77 DONA



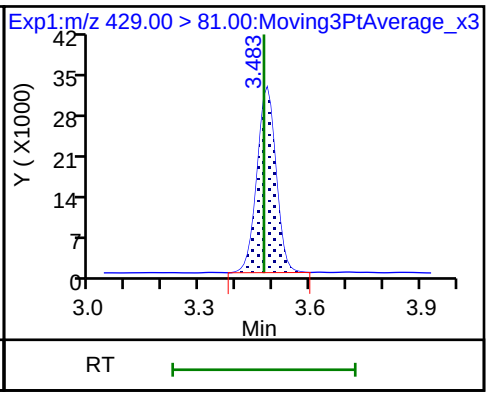
16 Perfluoroheptanesulfonic acid (M)



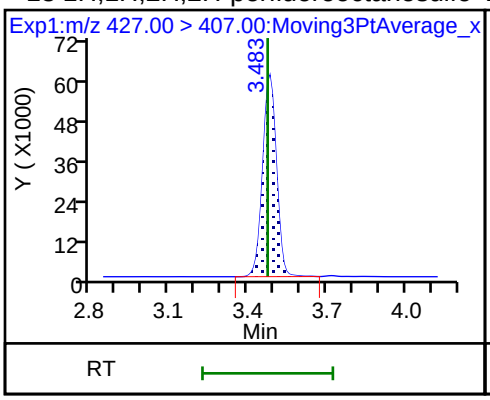
16 Perfluoroheptanesulfonic acid (M)



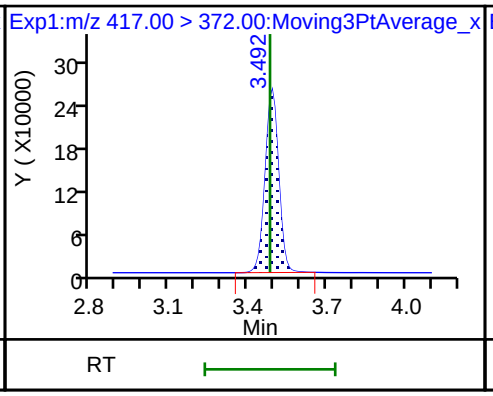
D 12 M2-6:2 FTS



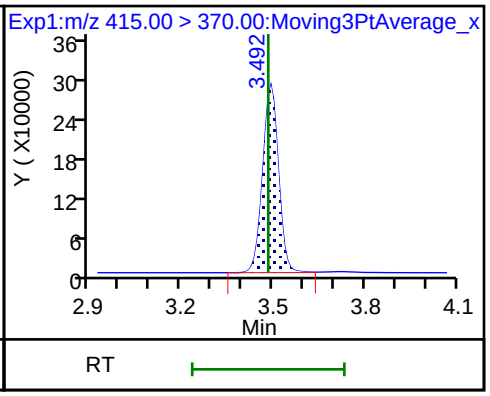
13 1H,1H,2H,2H-perfluorooctanesulfo



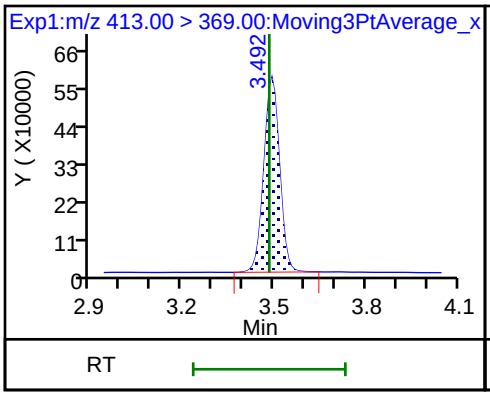
D 14 13C4 PFOA



* 62 13C2 PFOA



15 Perfluorooctanoic acid



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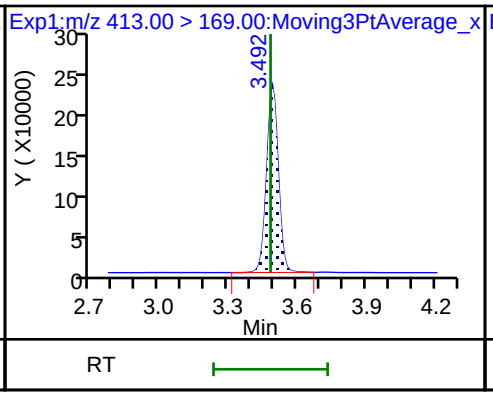
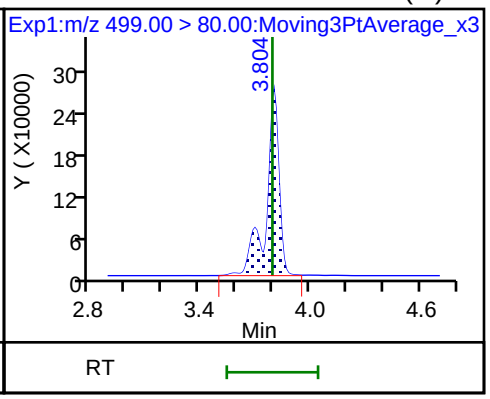
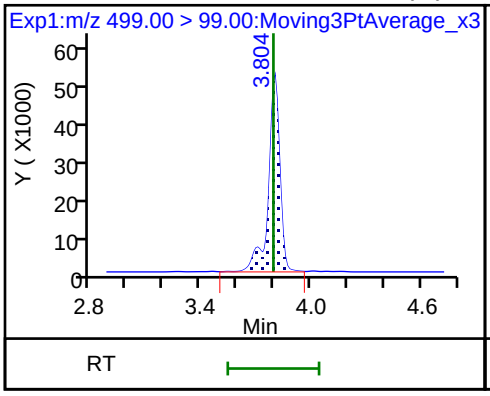


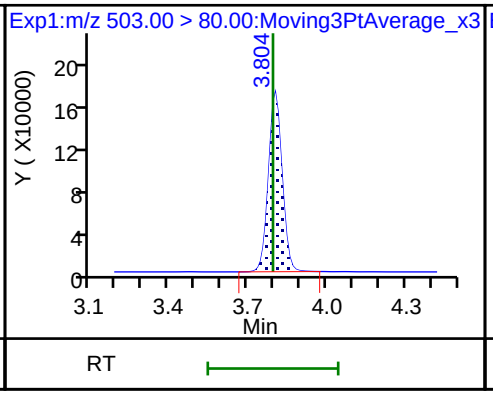
17 Perfluorooctanesulfonic acid (M)



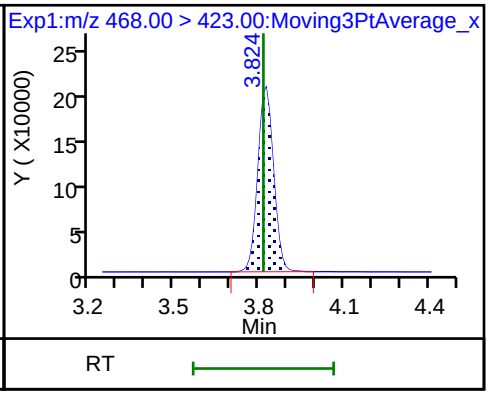
17 Perfluorooctanesulfonic acid (M)



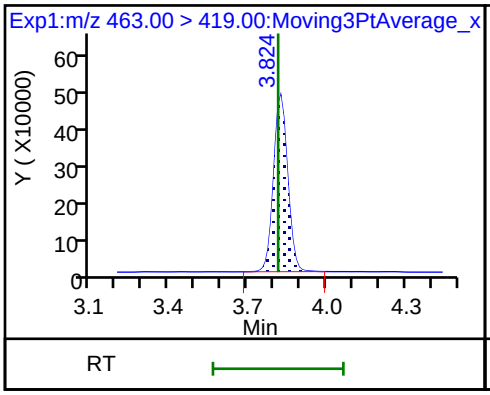
D 18 13C4 PFOS



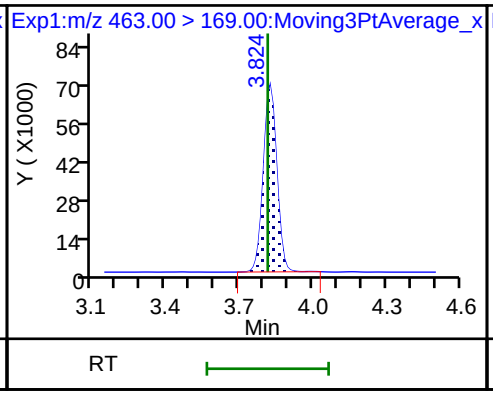
D 19 13C5 PFNA



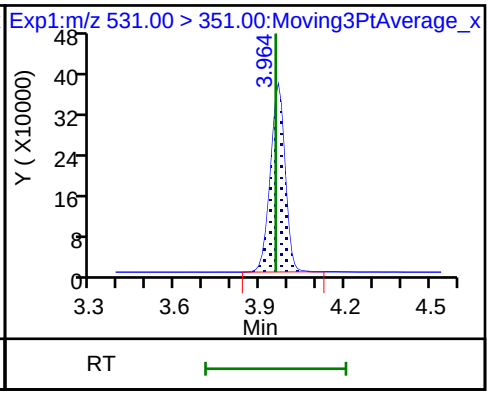
20 Perfluorononanoic acid



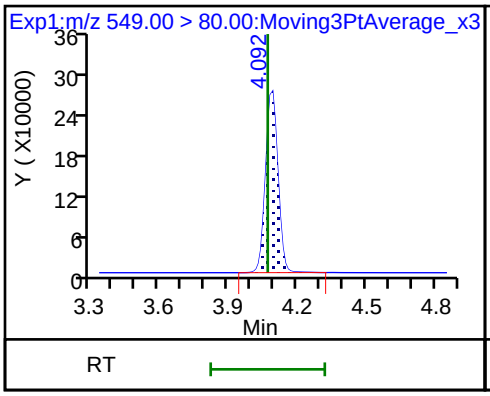
20 Perfluorononanoic acid



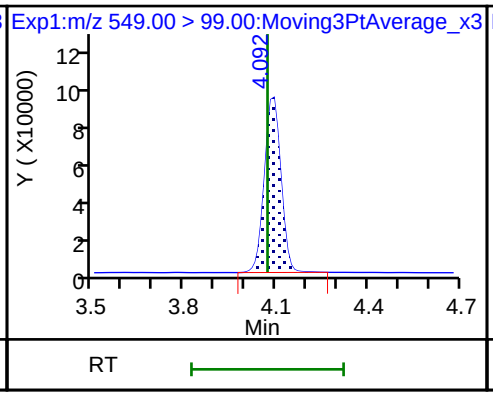
69 9-Chlorohexadecafluoro-3-oxanona



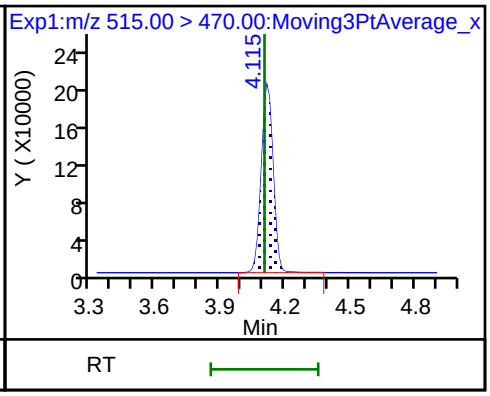
68 Perfluorononanesulfonic acid



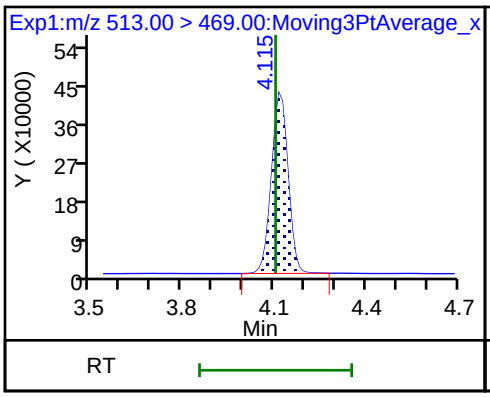
68 Perfluorononanesulfonic acid



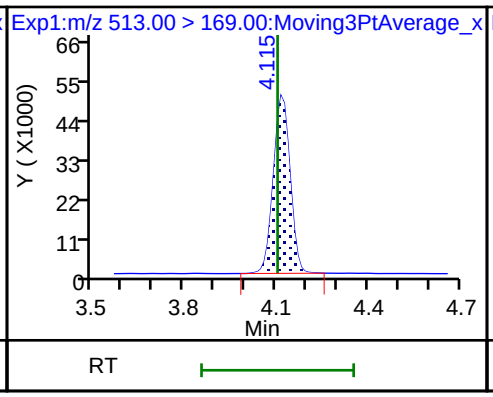
D 23 13C2 PFDA



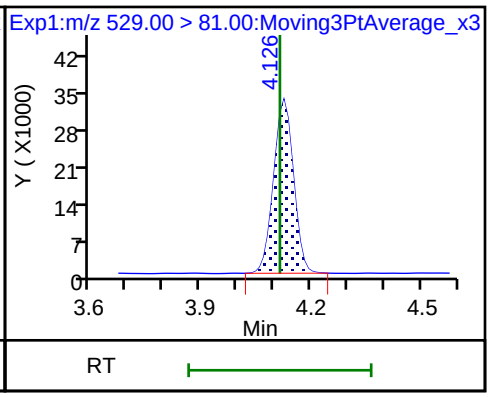
24 Perfluorodecanoic acid



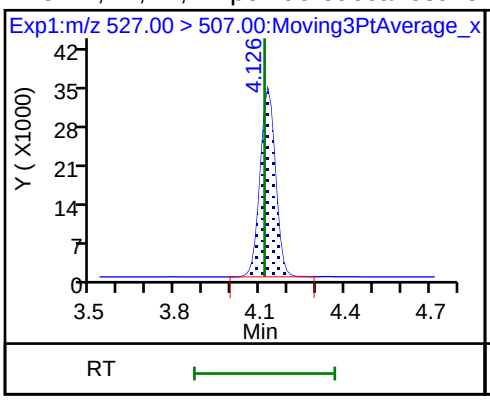
24 Perfluorodecanoic acid



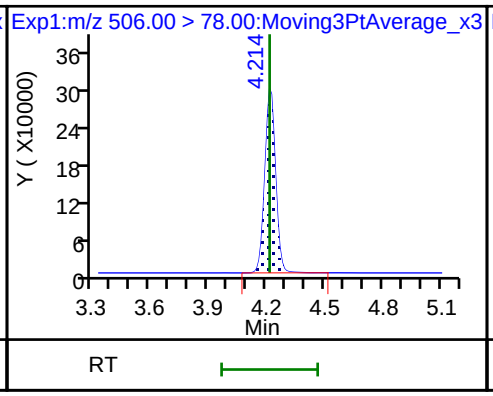
D 26 M2-8:2 FTS



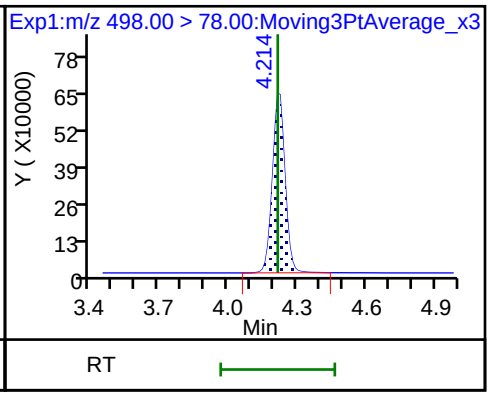
25 1H,1H,2H,2H-perfluorodecanesulfo



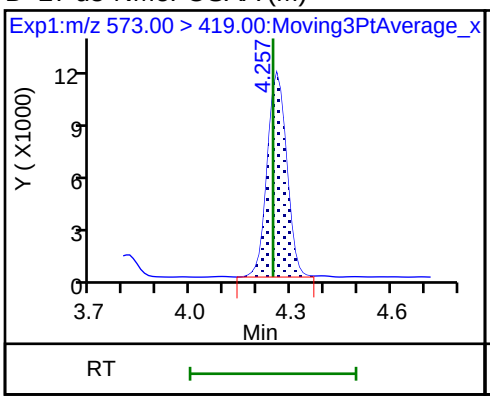
D 21 13C8 FOSA



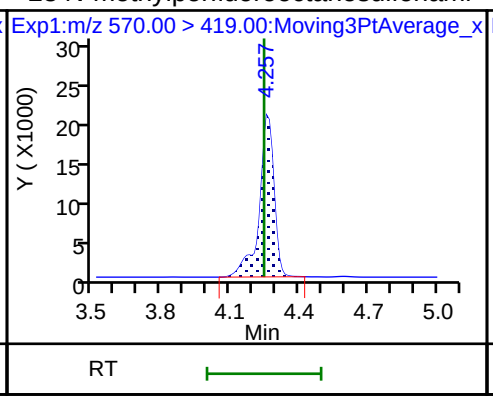
22 Perfluorooctanesulfonamide



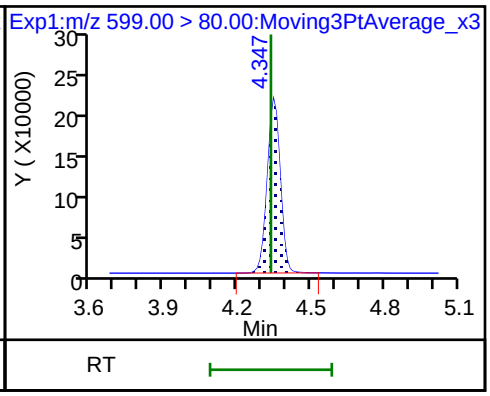
D 27 d3-NMeFOSAA (M)



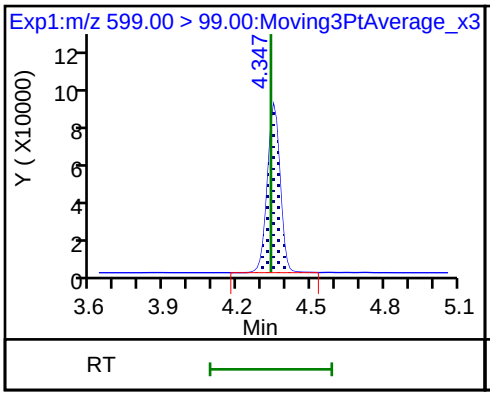
28 N-methylperfluorooctanesulfonami



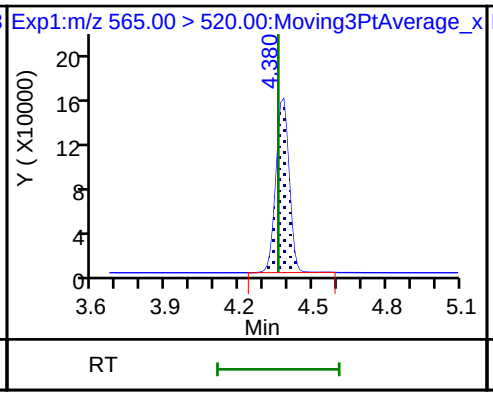
29 Perfluorodecanesulfonic acid



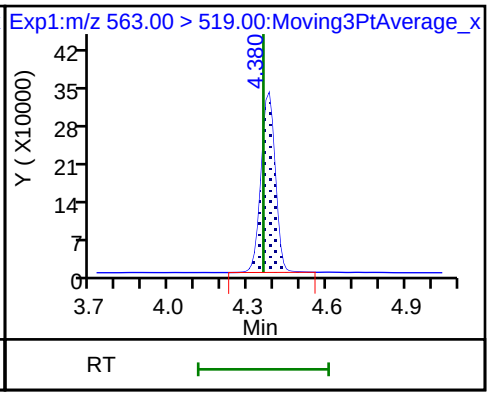
29 Perfluorodecanesulfonic acid



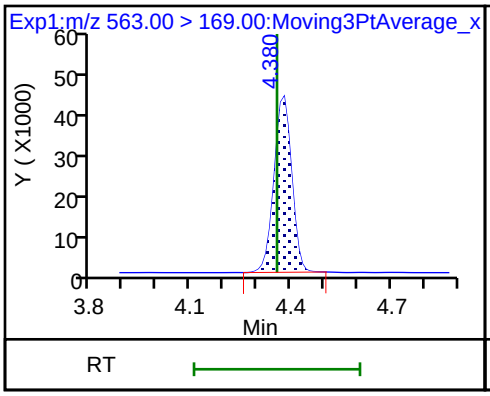
D 30 13C2 PFUnA



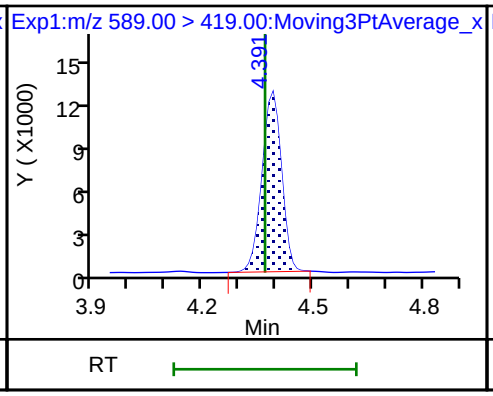
31 Perfluoroundecanoic acid



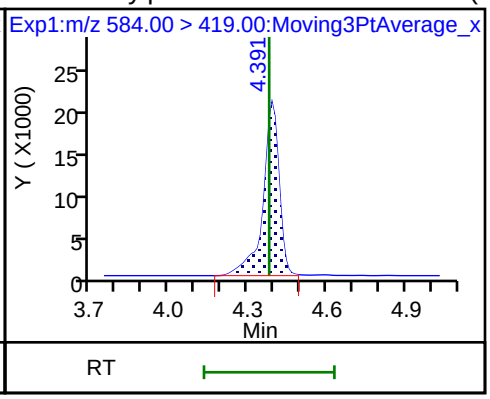
31 Perfluoroundecanoic acid



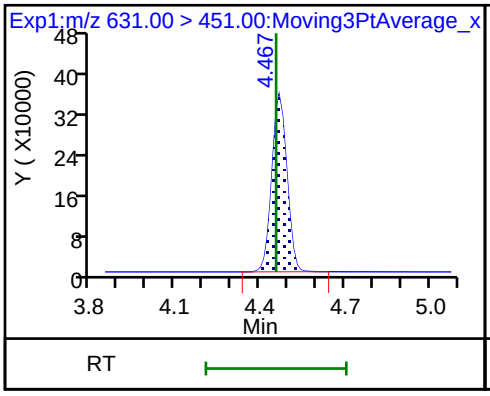
D 32 d5-NEtFOSAA



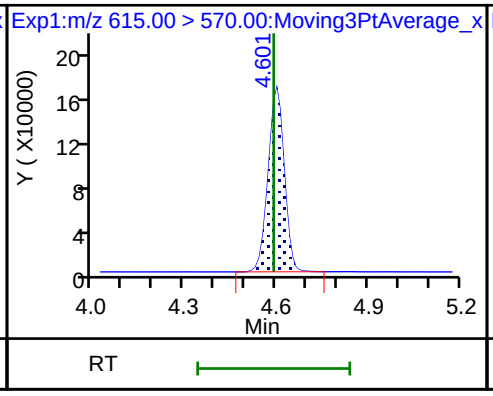
33 N-ethylperfluorooctanesulfonamid (M)



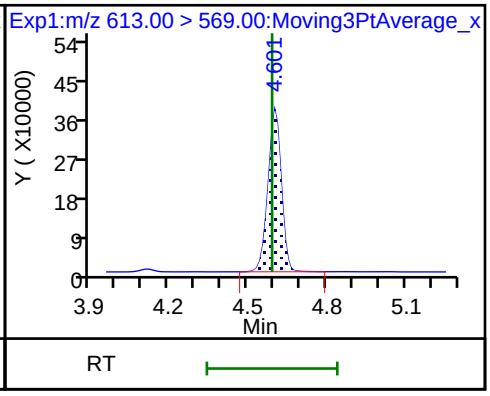
66 11-Chloroeicosafluoro-3-oxaundec



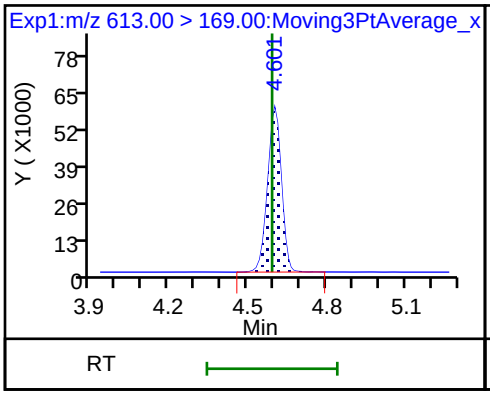
D 36 13C2 PFDoA



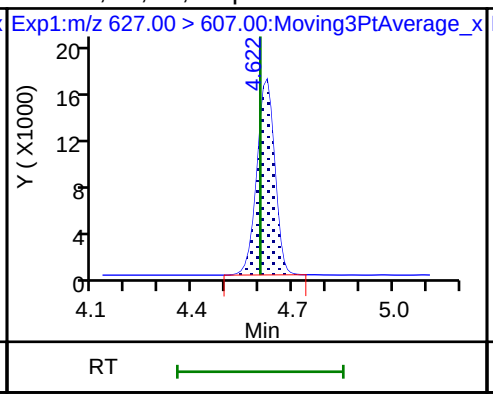
37 Perfluorododecanoic acid



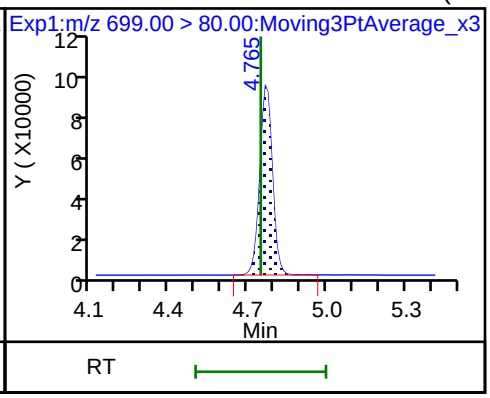
37 Perfluorododecanoic acid



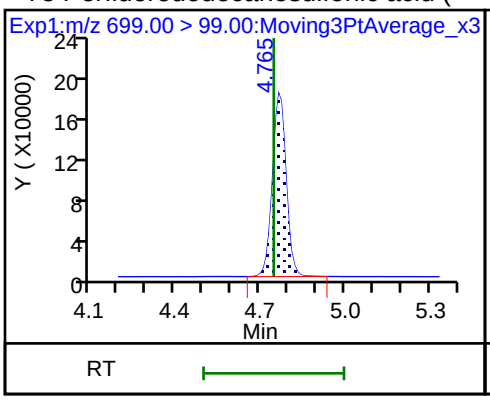
74 1H,1H,2H,2H-perfluorododecanesul



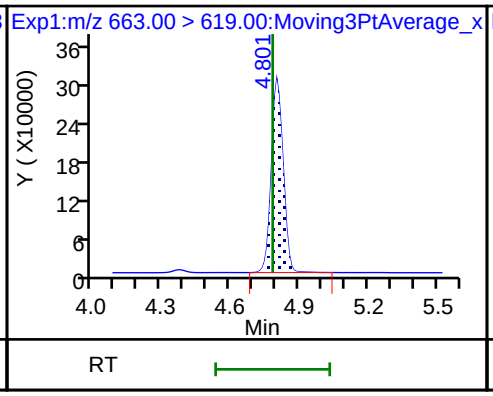
75 Perfluorododecanesulfonic acid (



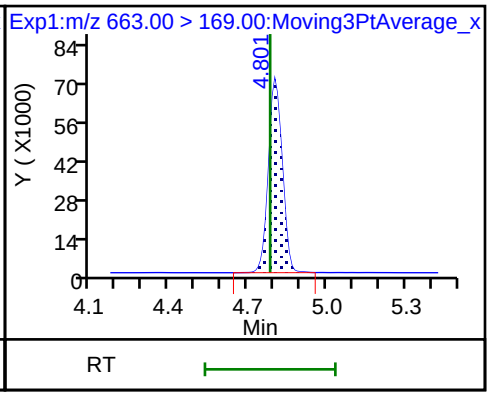
75 Perfluorododecanesulfonic acid (



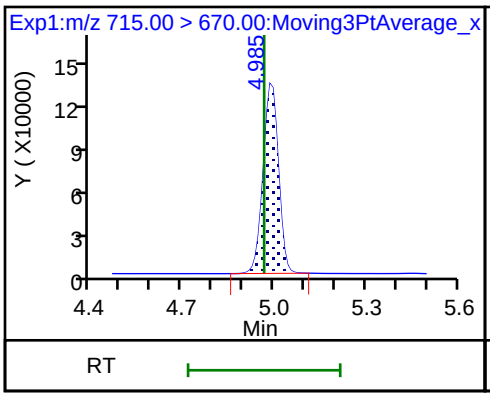
41 Perfluorotridecanoic acid



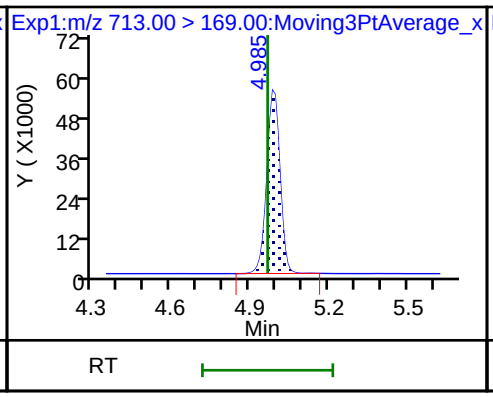
41 Perfluorotridecanoic acid



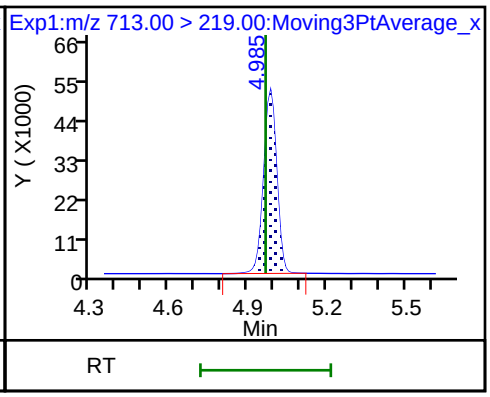
D 43 13C2 PFTeDA



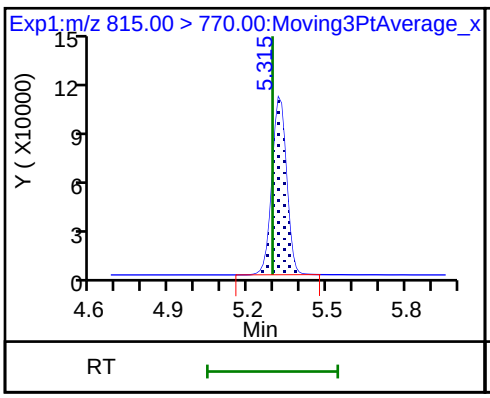
42 Perfluorotetradecanoic acid



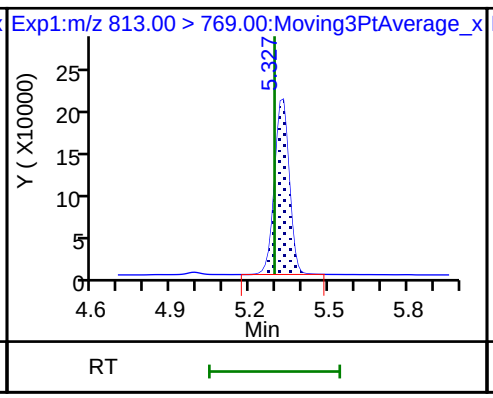
42 Perfluorotetradecanoic acid



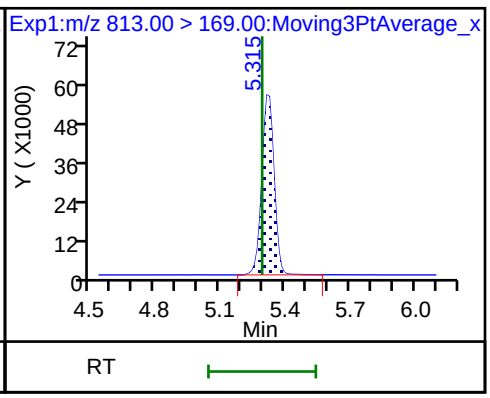
D 44 13C2 PFHxDA



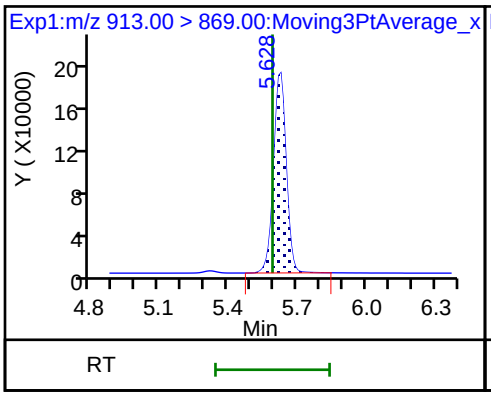
45 Perfluorohexadecanoic acid



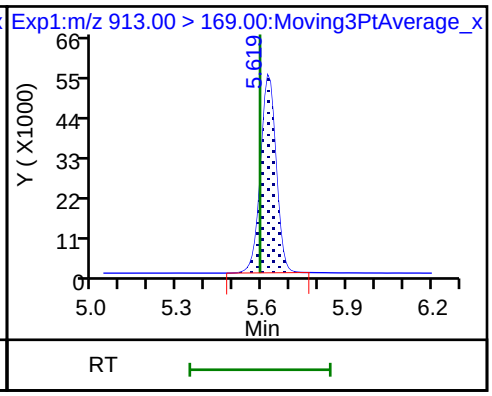
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

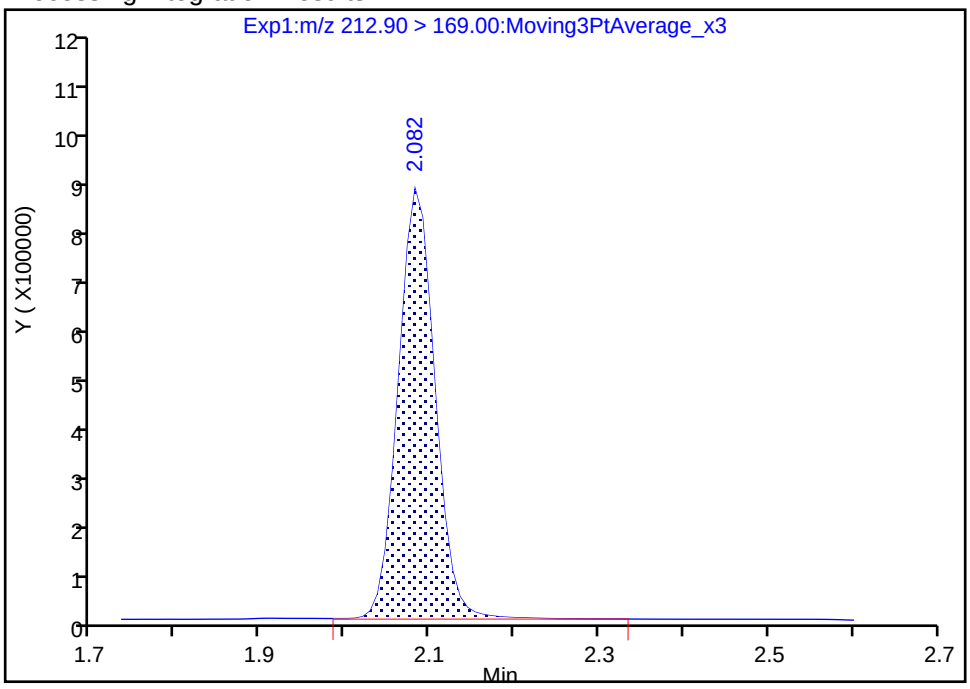
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B14.d				
Injection Date:	19-Feb-2021 17:36:20	Instrument ID:	LC812		
Lims ID:	CCV L5				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	29	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

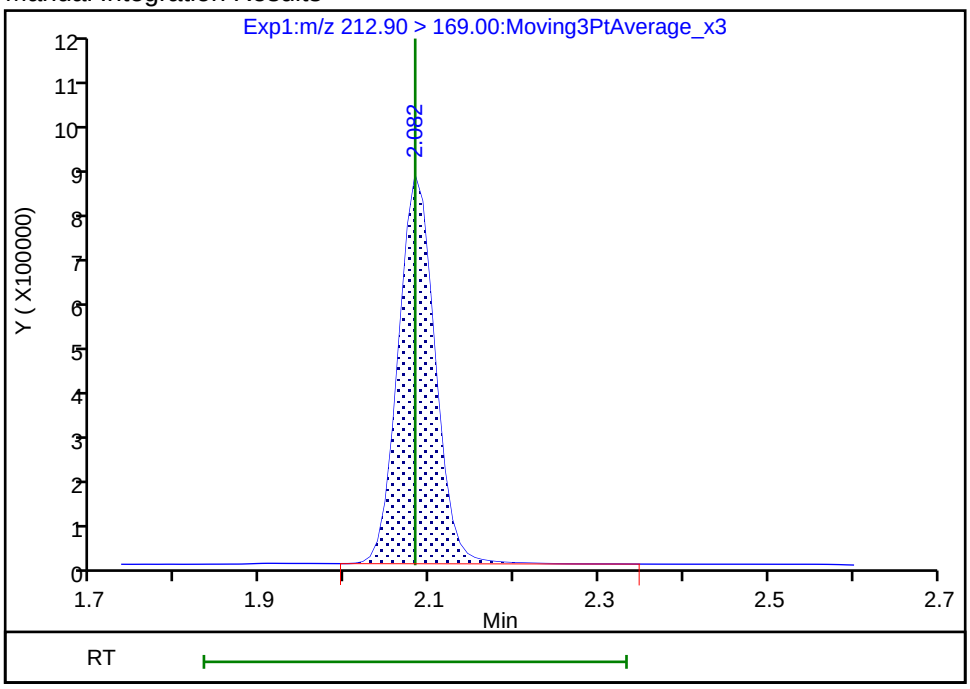
Processing Integration Results

RT: 2.08
Area: 2496245
Amount: 2.439066
Amount Units: ng/ml



Manual Integration Results

RT: 2.08
Area: 2485910
Amount: 2.428968
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:55:06

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

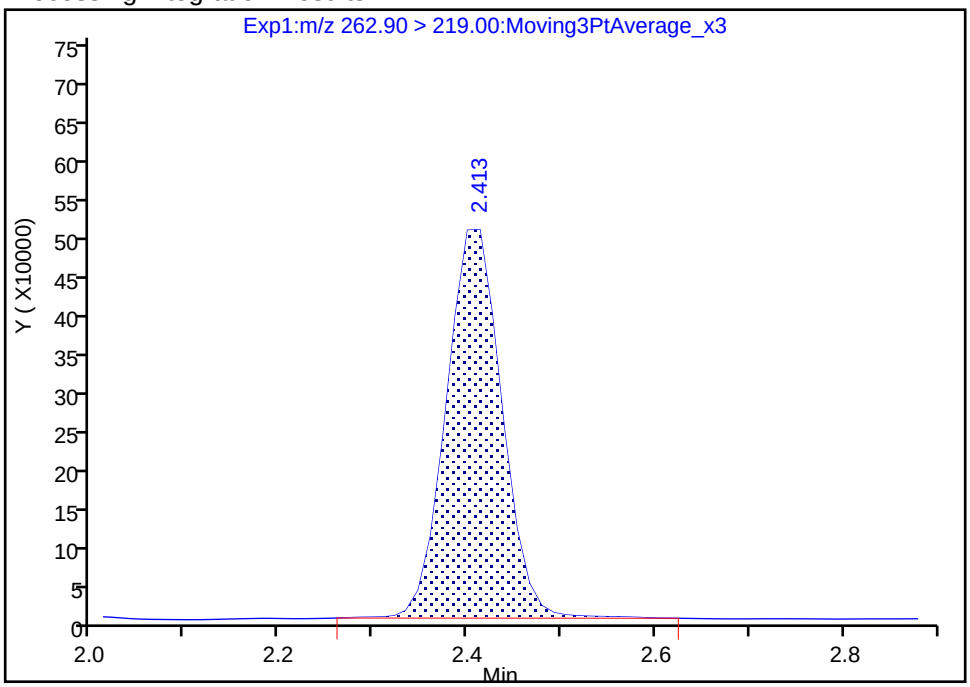
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B14.d				
Injection Date:	19-Feb-2021 17:36:20	Instrument ID:	LC812		
Lims ID:	CCV L5				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	29	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

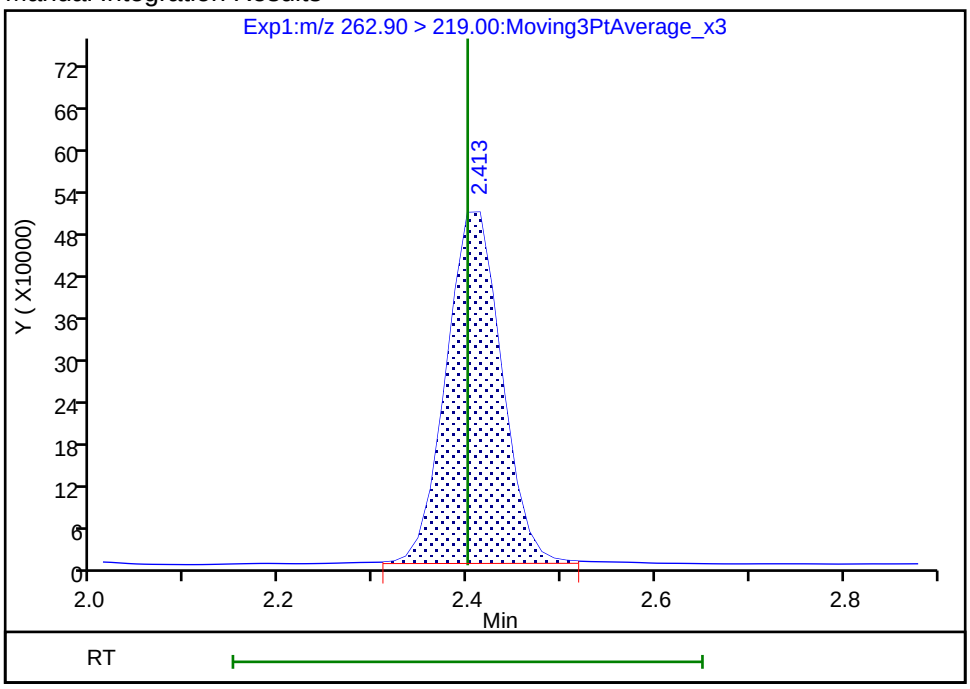
Processing Integration Results

RT: 2.41
Area: 2065843
Amount: 2.485913
Amount Units: ng/ml



Manual Integration Results

RT: 2.41
Area: 2059011
Amount: 2.477692
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:55:16

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

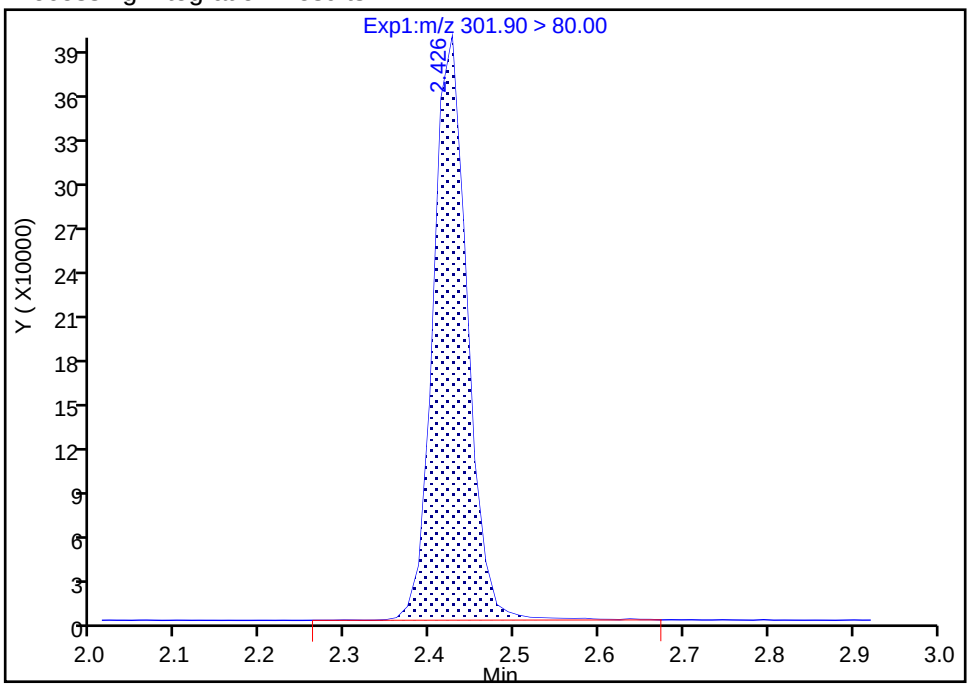
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B14.d
Injection Date: 19-Feb-2021 17:36:20 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

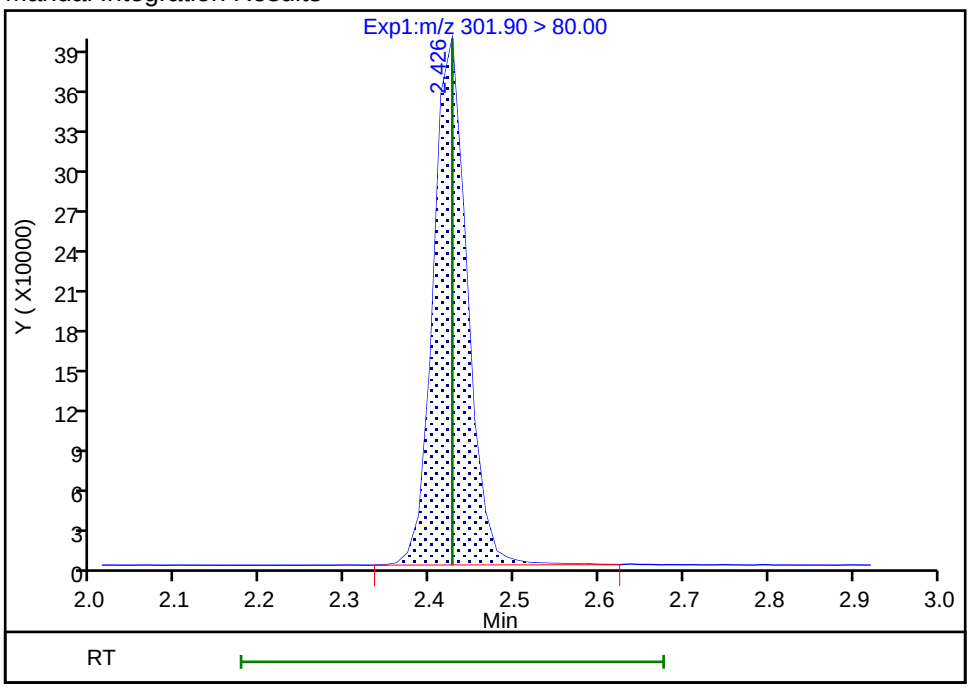
Processing Integration Results

RT: 2.43
Area: 1104444
Amount: 1.057809
Amount Units: ng/ml



Manual Integration Results

RT: 2.43
Area: 1101688
Amount: 1.055169
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:54:27
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

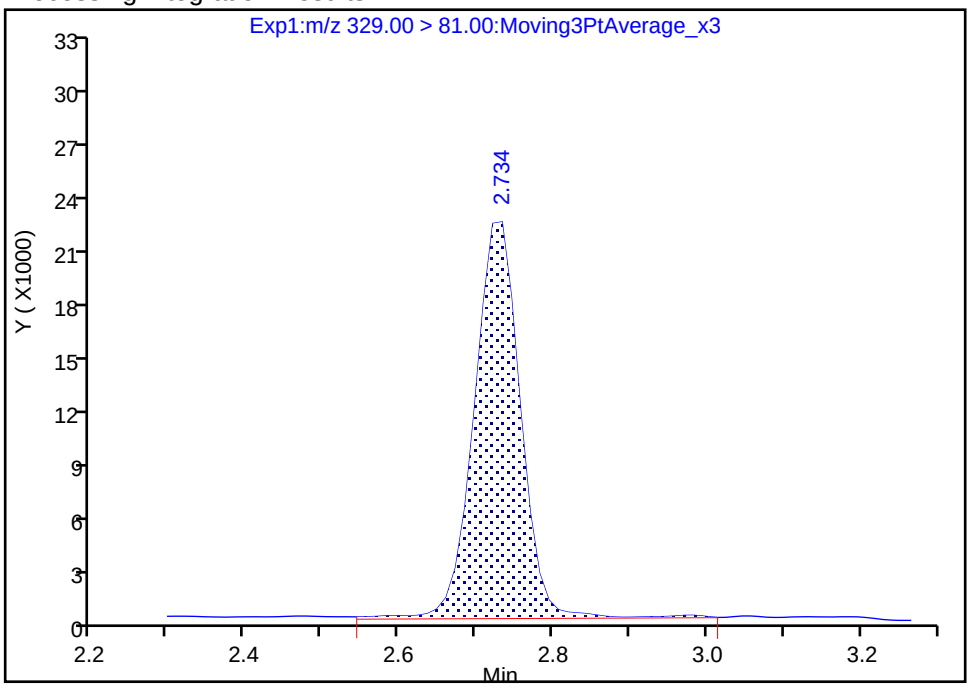
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B14.d				
Injection Date:	19-Feb-2021 17:36:20	Instrument ID:	LC812		
Lims ID:	CCV L5				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	29	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

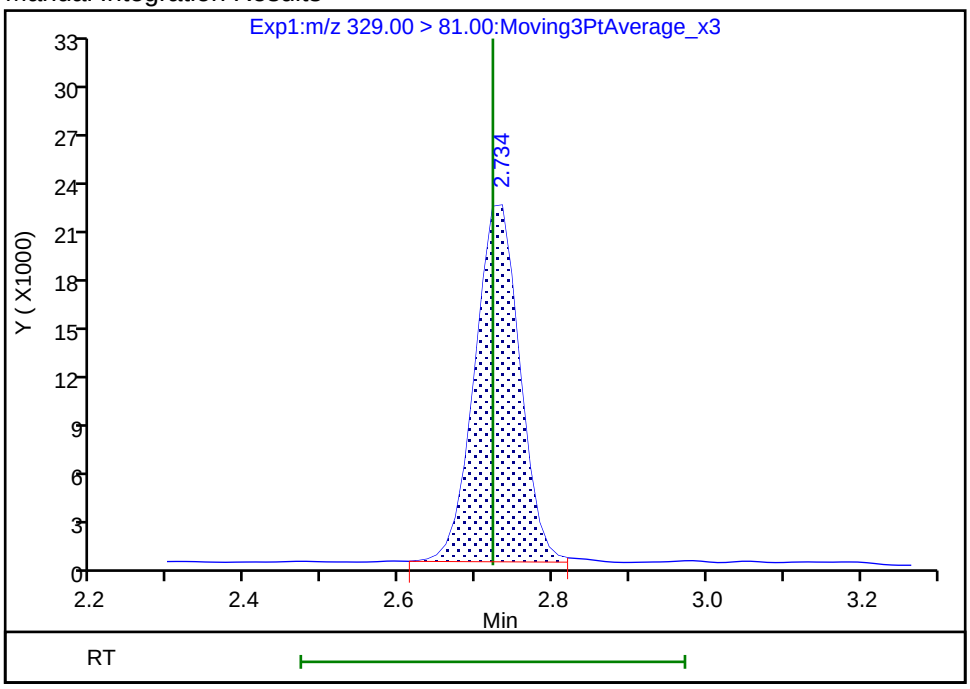
Processing Integration Results

RT: 2.73
Area: 91669
Amount: 1.052325
Amount Units: ng/ml



Manual Integration Results

RT: 2.73
Area: 88200
Amount: 1.012502
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:54:36

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

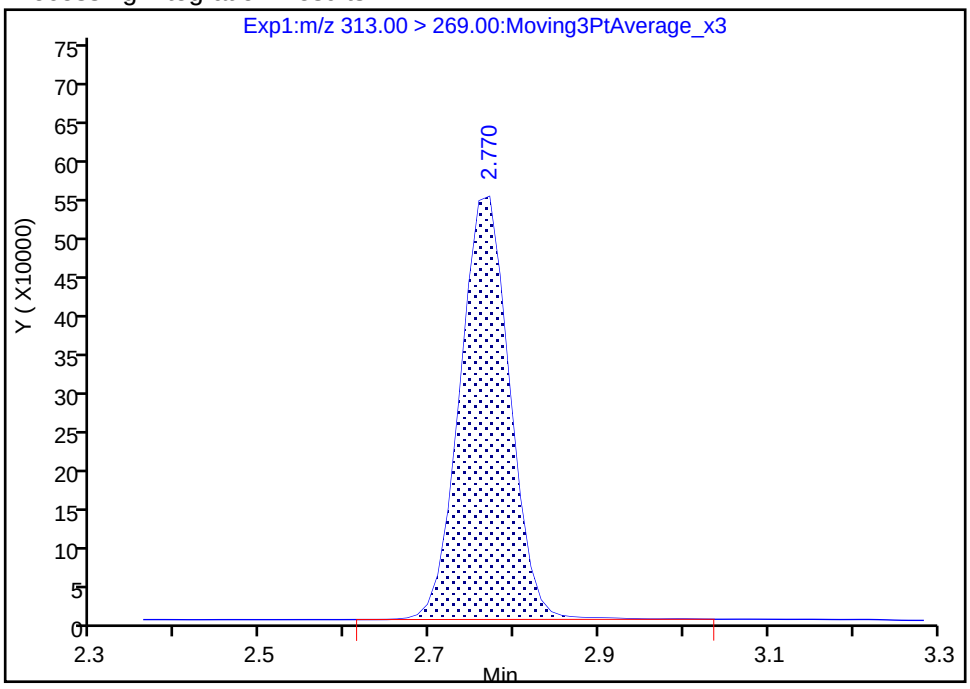
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B14.d				
Injection Date:	19-Feb-2021 17:36:20	Instrument ID:	LC812		
Lims ID:	CCV L5				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	29	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

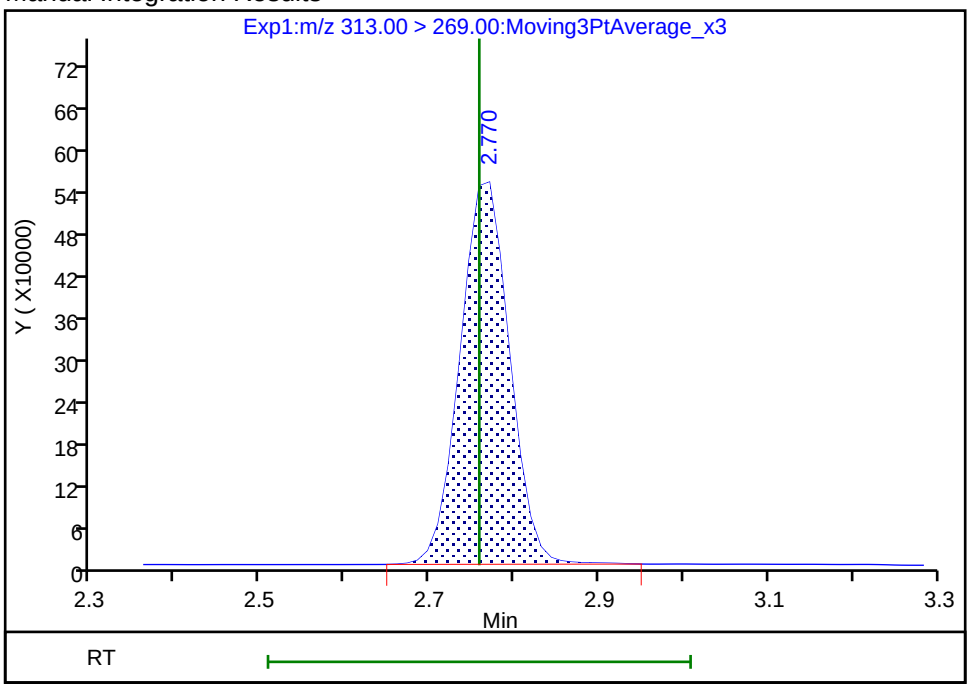
Processing Integration Results

RT: 2.77
Area: 2220263
Amount: 2.571167
Amount Units: ng/ml



Manual Integration Results

RT: 2.77
Area: 2214979
Amount: 2.565048
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:55:31

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

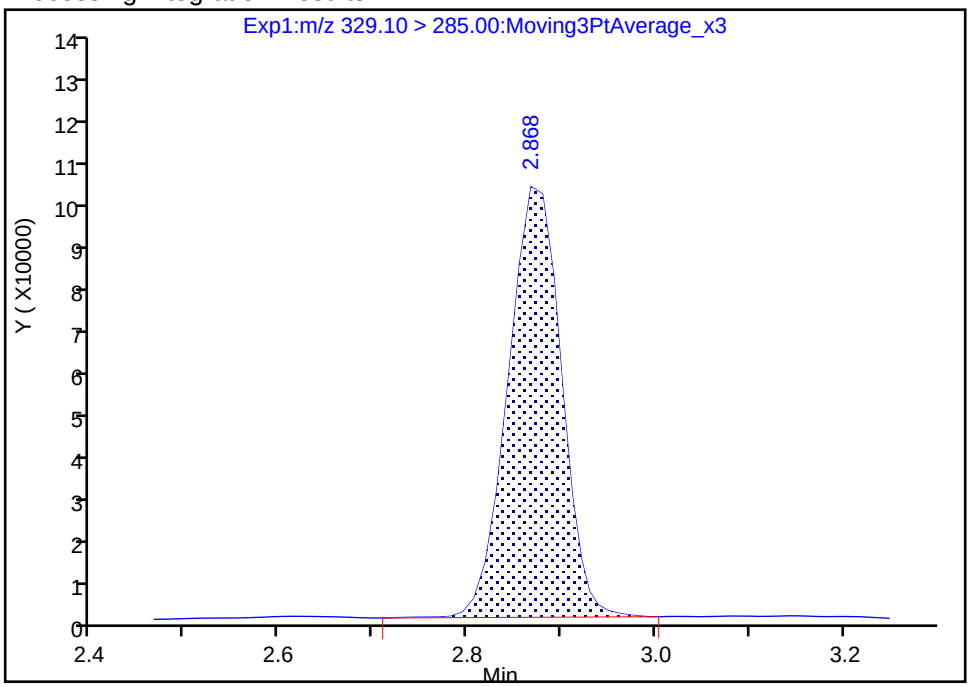
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B14.d				
Injection Date:	19-Feb-2021 17:36:20	Instrument ID:	LC812		
Lims ID:	CCV L5				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	29	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

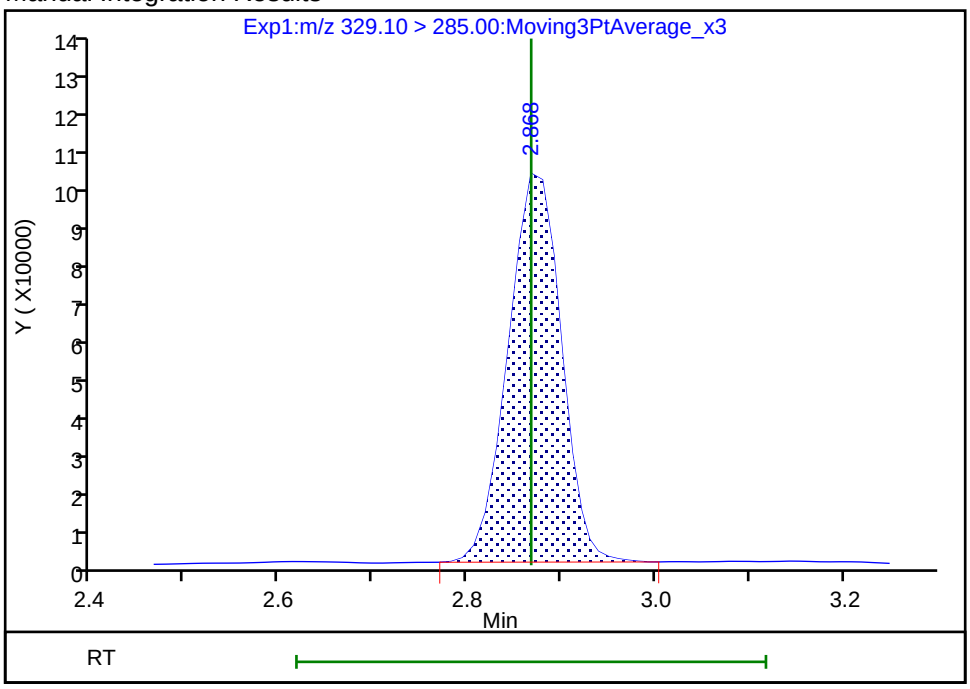
Processing Integration Results

RT: 2.87
Area: 385363
Amount: 2.971871
Amount Units: ng/ml



Manual Integration Results

RT: 2.87
Area: 383911
Amount: 2.960674
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:55:41

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

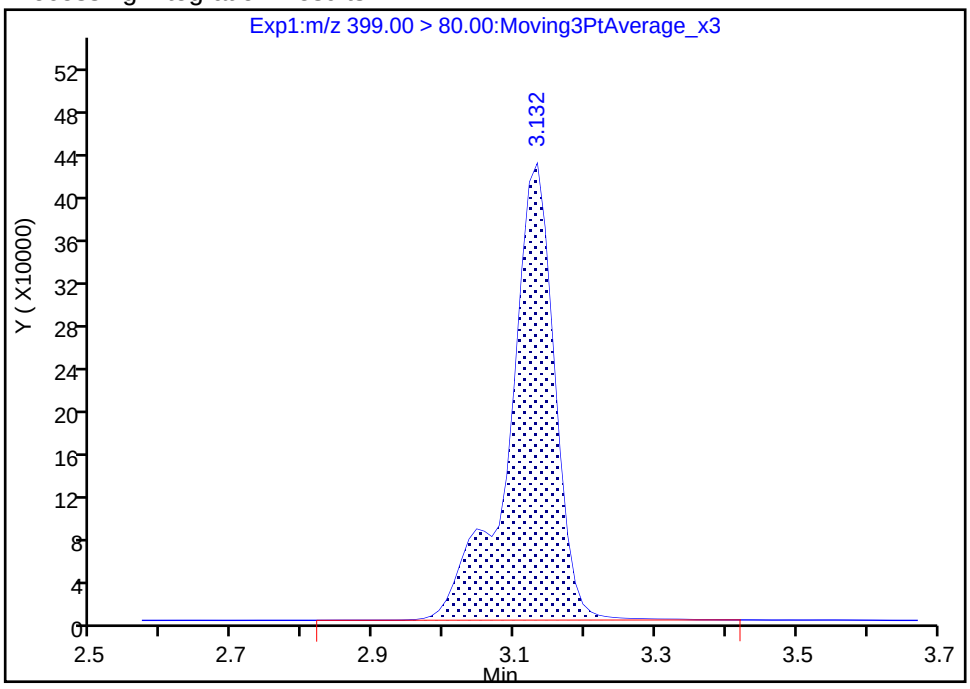
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B14.d
Injection Date: 19-Feb-2021 17:36:20 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

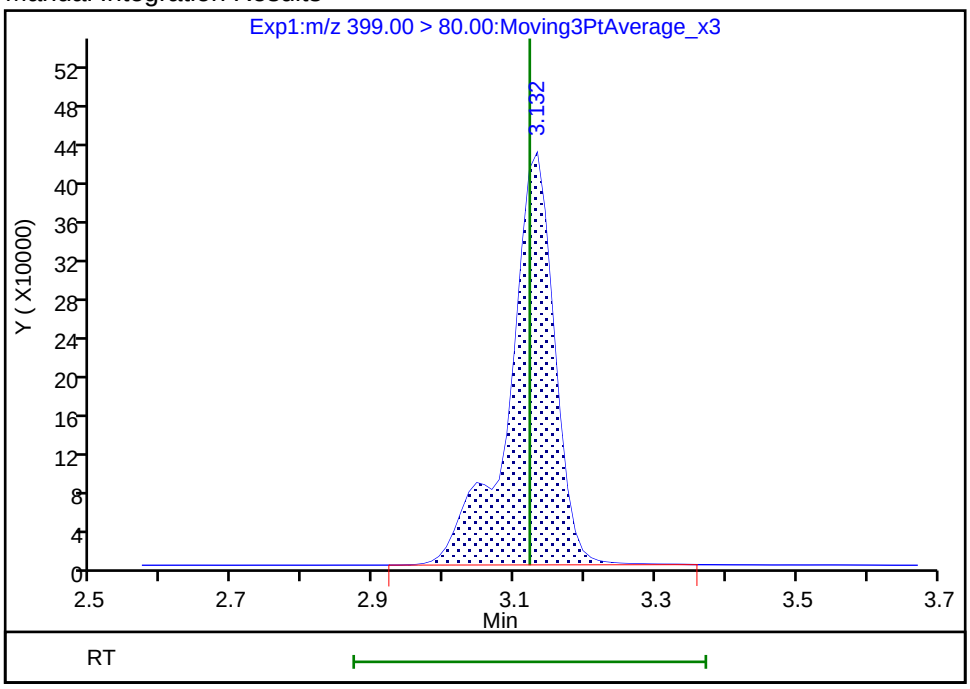
Processing Integration Results

RT: 3.13
Area: 1937411
Amount: 2.339983
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 1933765
Amount: 2.335579
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:55:52
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

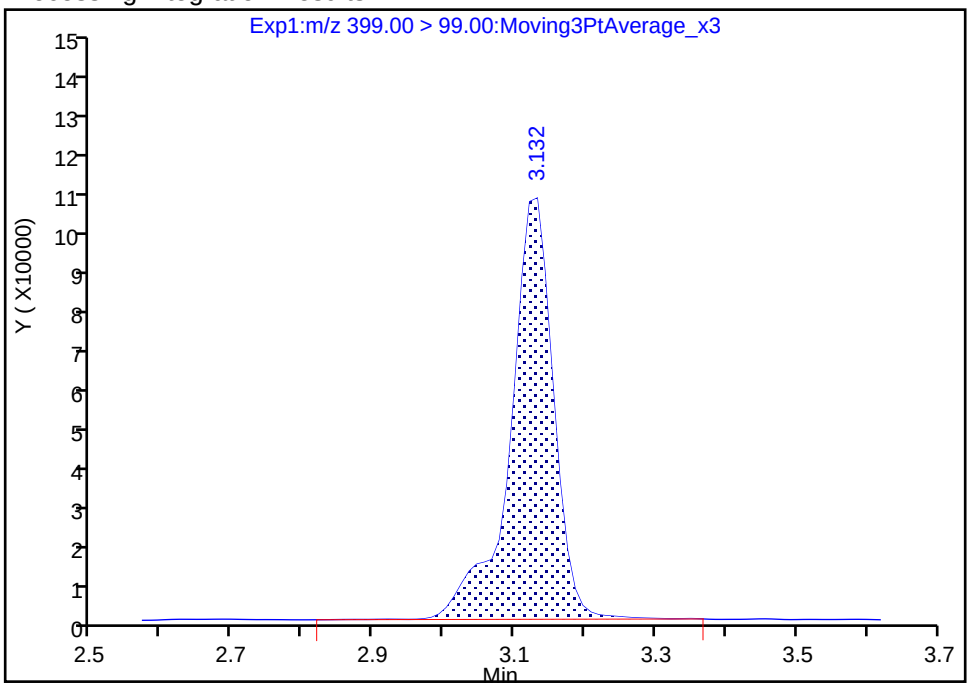
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B14.d				
Injection Date:	19-Feb-2021 17:36:20	Instrument ID:	LC812		
Lims ID:	CCV L5				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	29	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

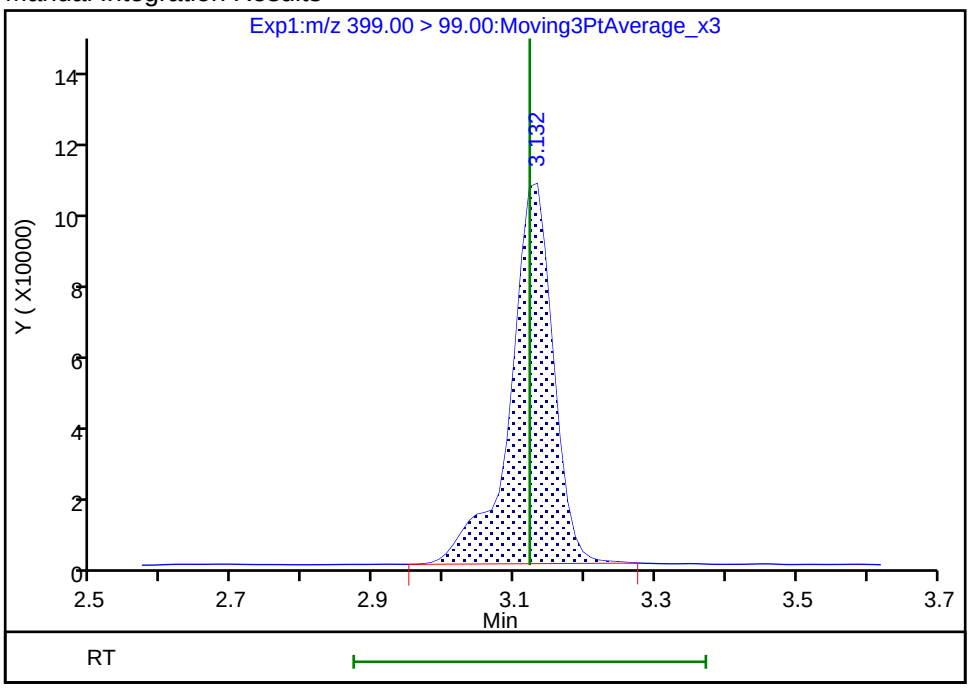
Processing Integration Results

RT: 3.13
Area: 441932
Amount: 2.339983
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 437935
Amount: 2.335579
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:55:59

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

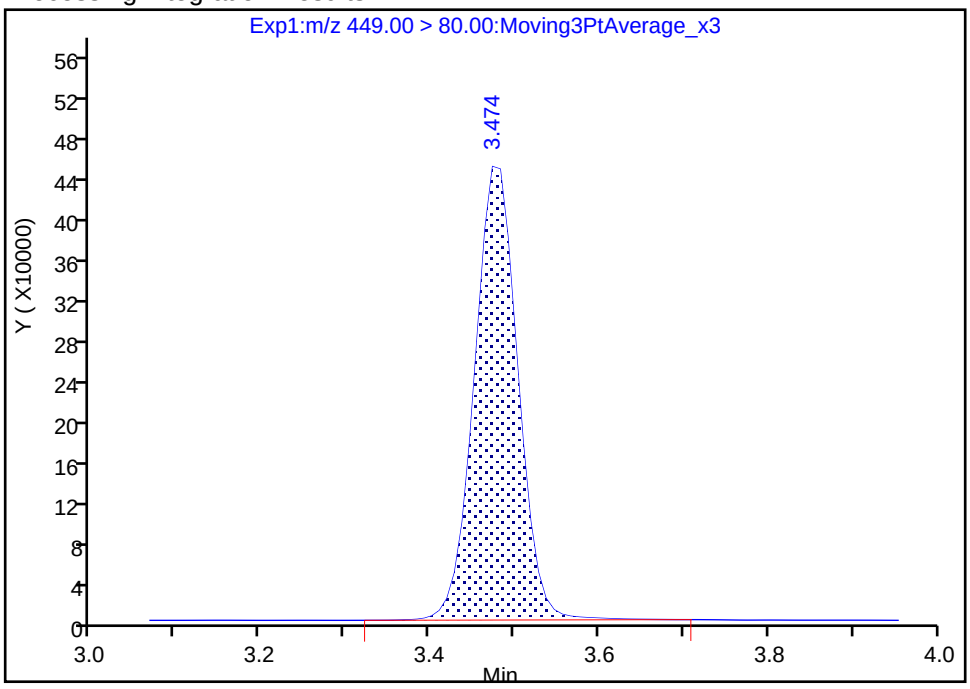
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B14.d				
Injection Date:	19-Feb-2021 17:36:20	Instrument ID:	LC812		
Lims ID:	CCV L5				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	29	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

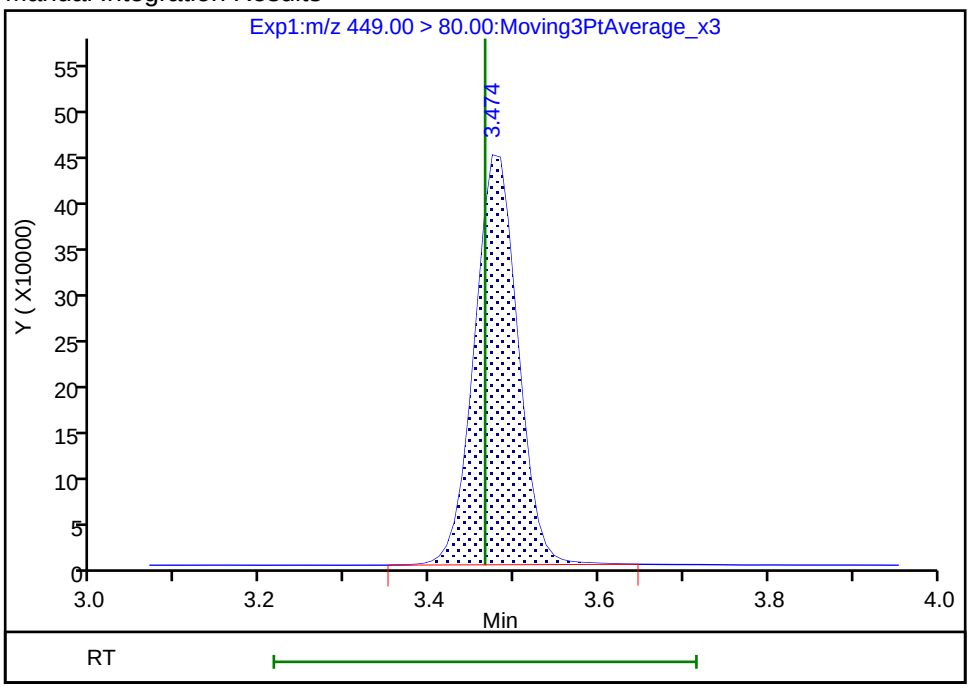
Processing Integration Results

RT: 3.47
Area: 1599600
Amount: 2.323700
Amount Units: ng/ml



Manual Integration Results

RT: 3.47
Area: 1594993
Amount: 2.317007
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:56:09

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

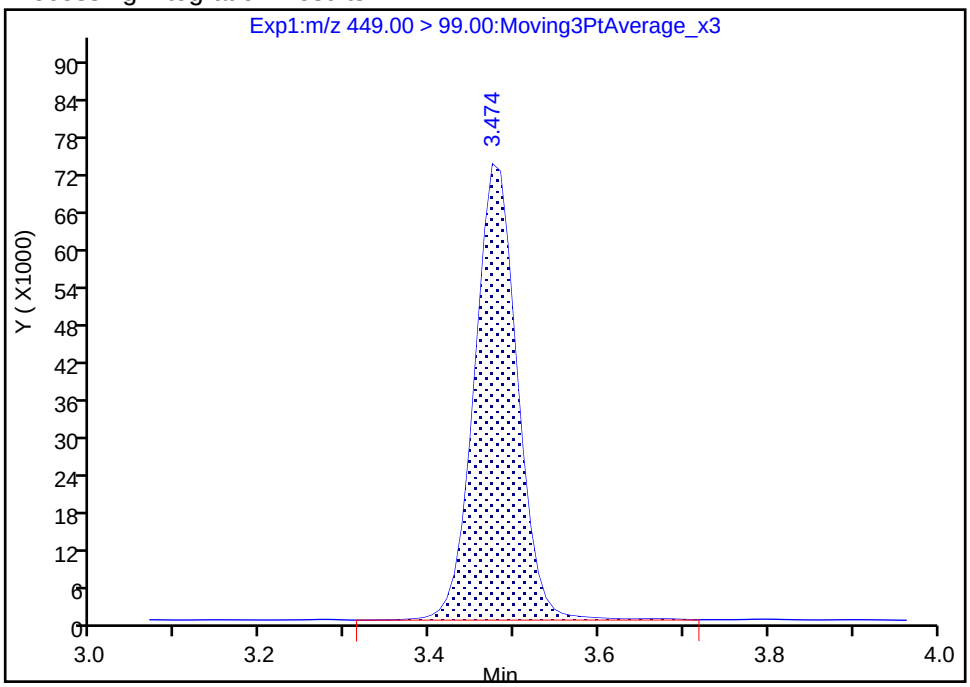
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B14.d
Injection Date: 19-Feb-2021 17:36:20 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

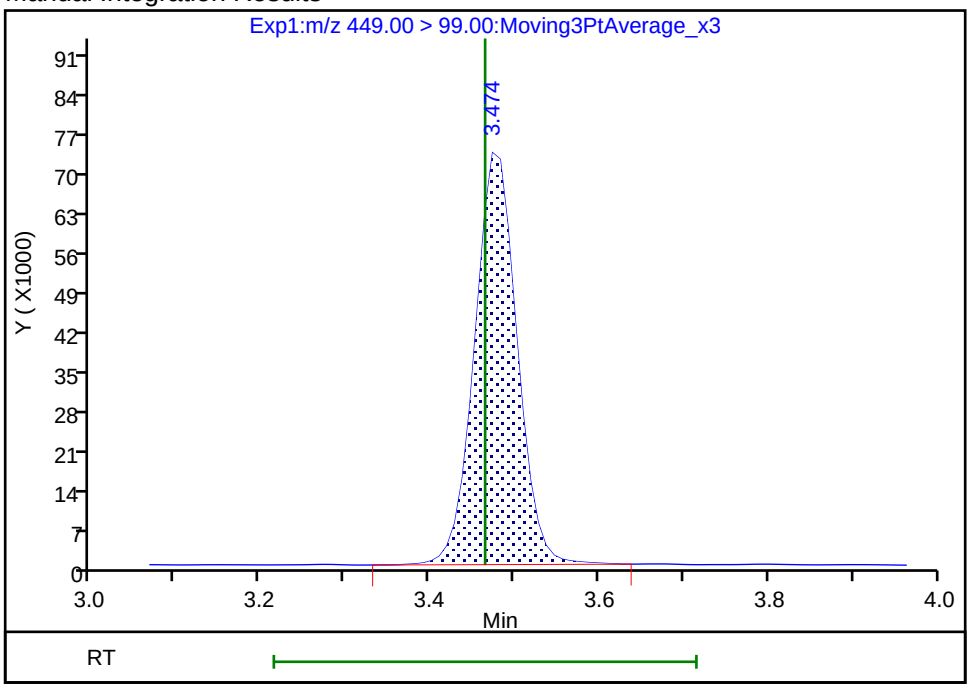
Processing Integration Results

RT: 3.47
Area: 255082
Amount: 2.323700
Amount Units: ng/ml



Manual Integration Results

RT: 3.47
Area: 253056
Amount: 2.317007
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:56:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

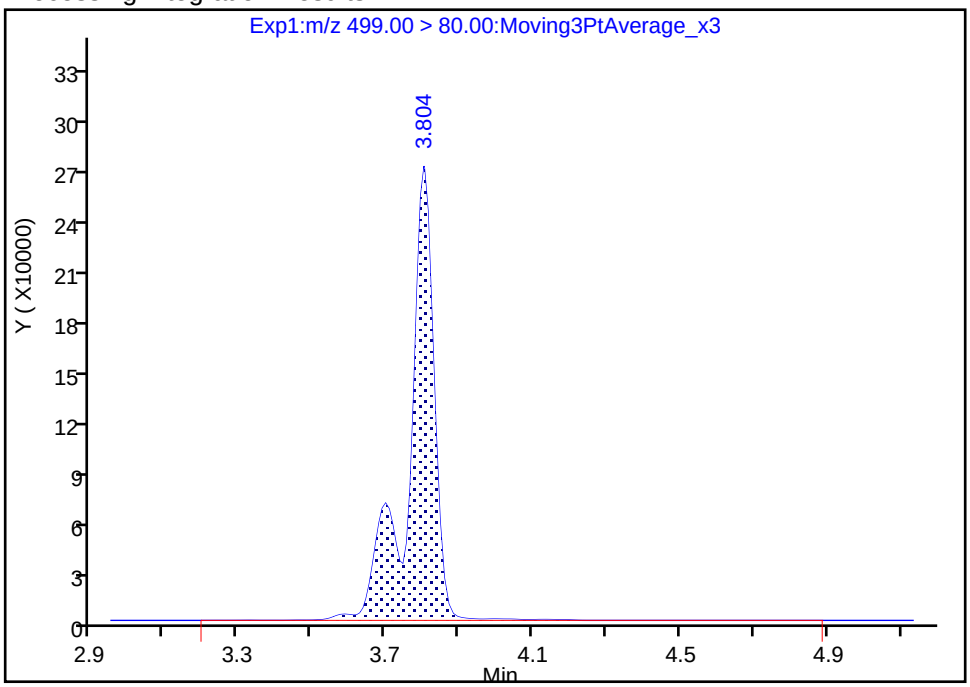
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B14.d
Injection Date: 19-Feb-2021 17:36:20 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

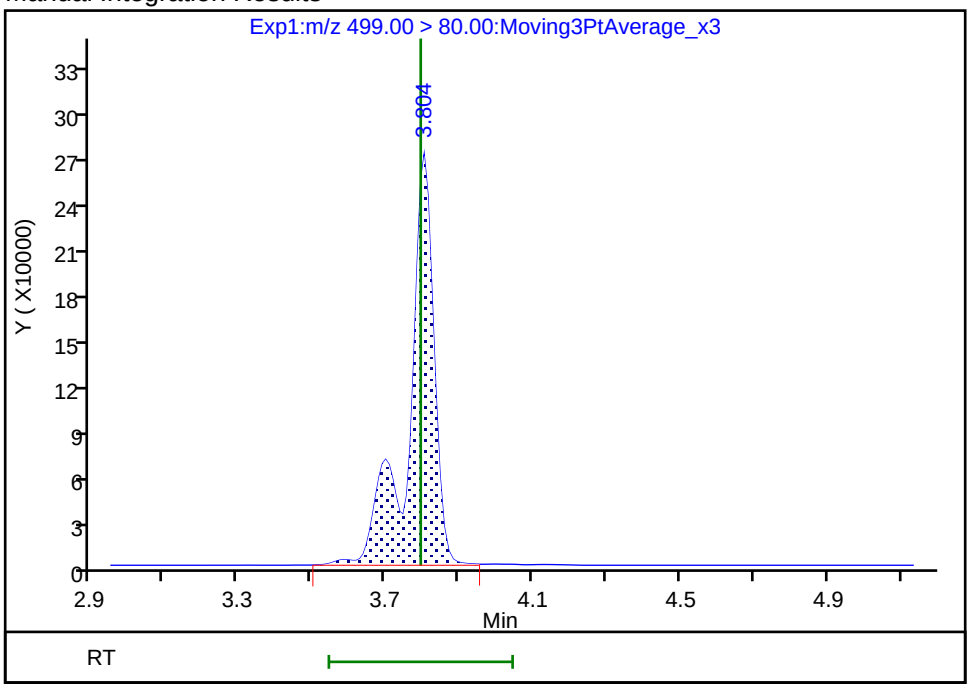
Processing Integration Results

RT: 3.80
Area: 1325759
Amount: 2.260930
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 1317107
Amount: 2.246175
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:56:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

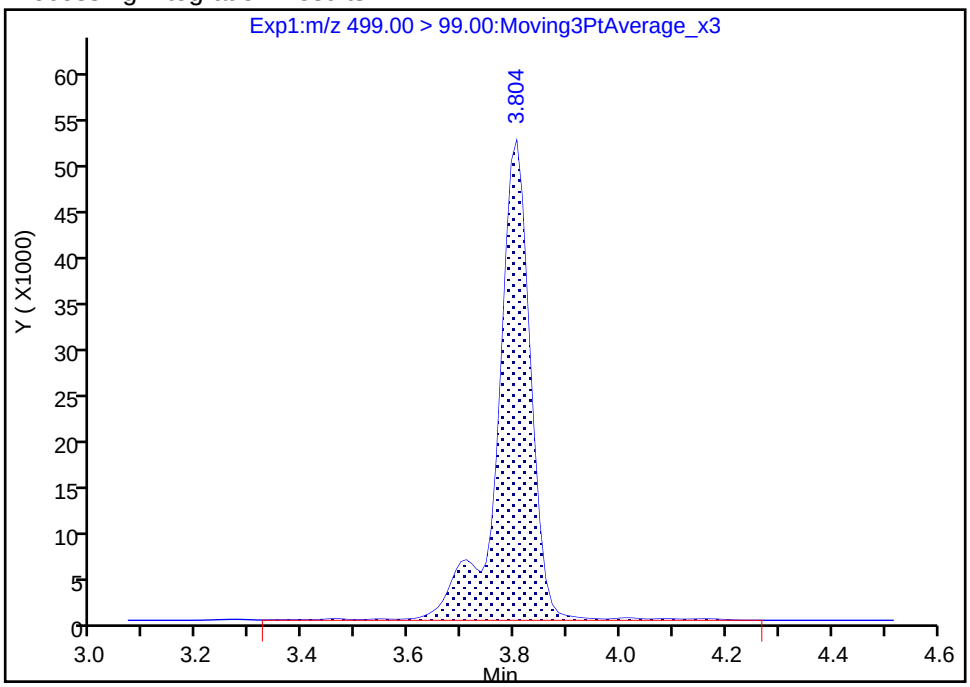
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B14.d				
Injection Date:	19-Feb-2021 17:36:20	Instrument ID:	LC812		
Lims ID:	CCV L5				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	29	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

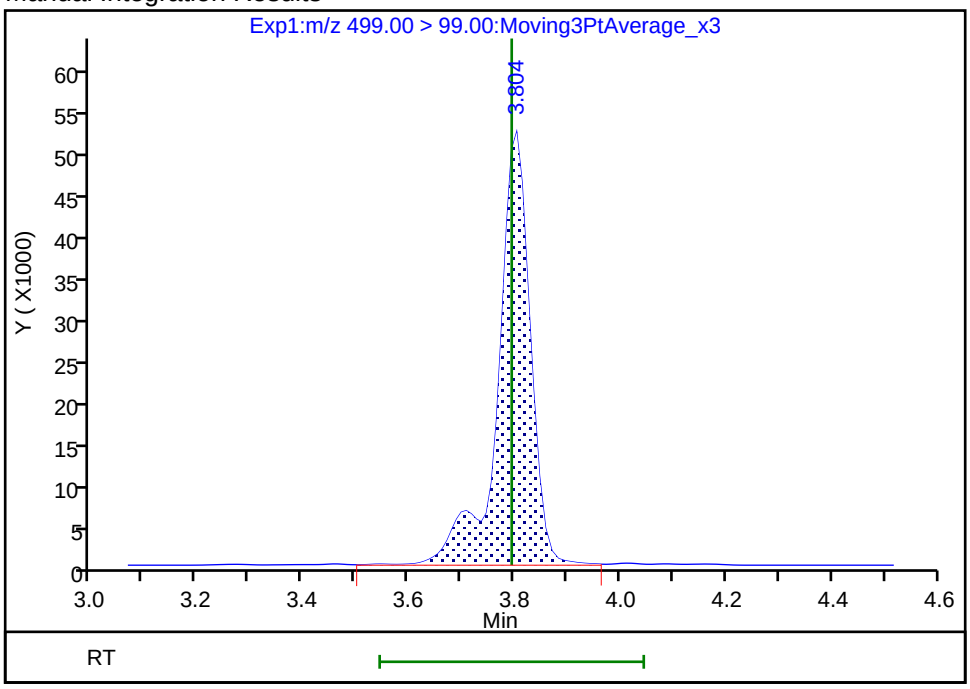
Processing Integration Results

RT: 3.80
Area: 226739
Amount: 2.260930
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 223899
Amount: 2.246175
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:56:38

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

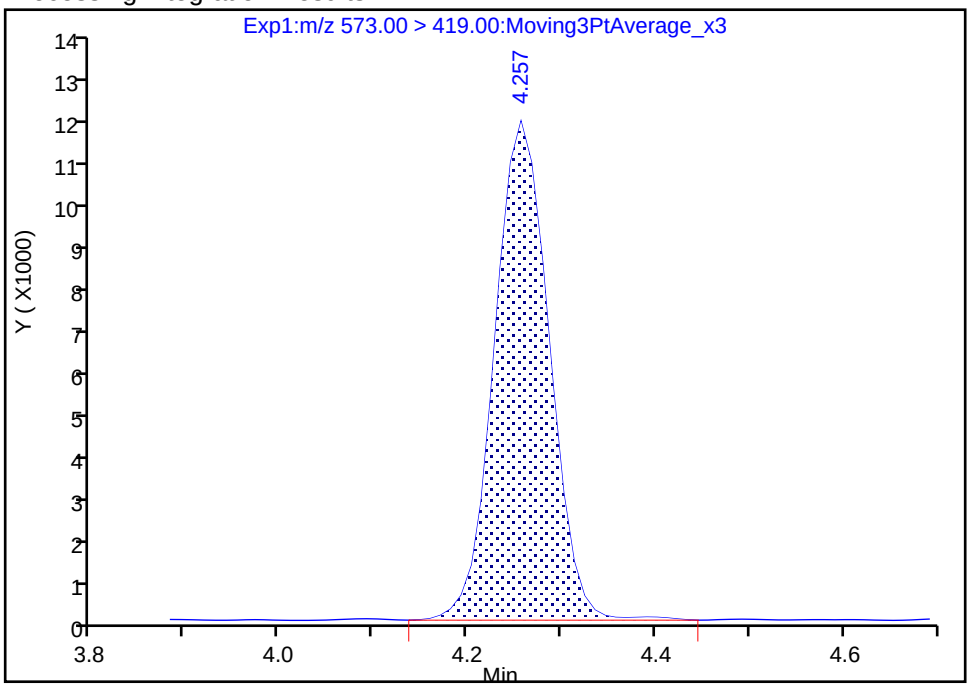
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B14.d				
Injection Date:	19-Feb-2021 17:36:20	Instrument ID:	LC812		
Lims ID:	CCV L5				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	29	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

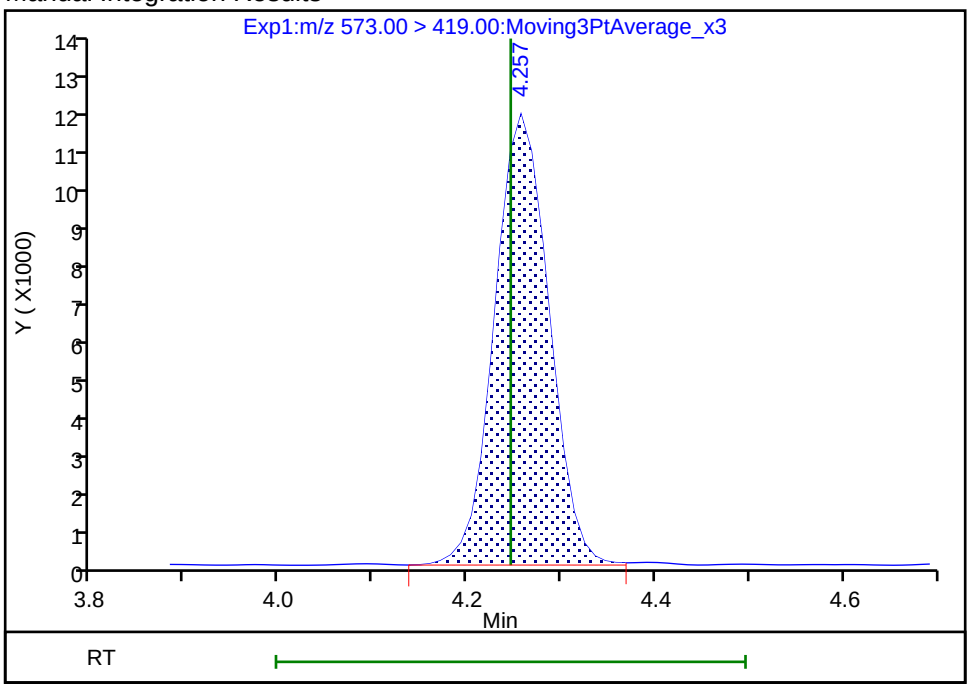
Processing Integration Results

RT: 4.26
Area: 46635
Amount: 0.942768
Amount Units: ng/ml



Manual Integration Results

RT: 4.26
Area: 46432
Amount: 0.938665
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:54:51

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

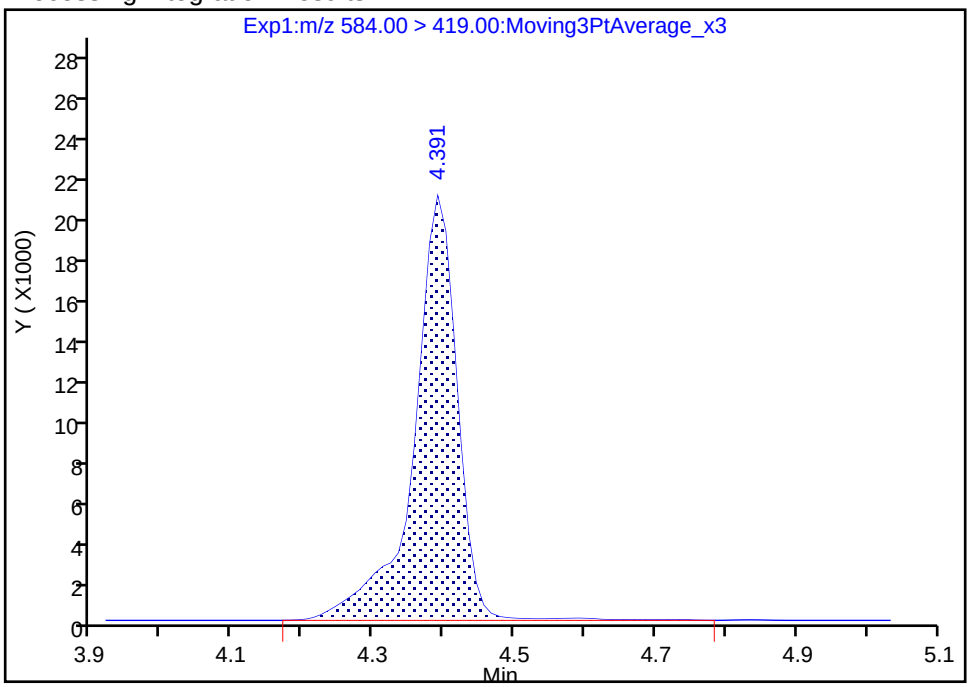
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B14.d
Injection Date: 19-Feb-2021 17:36:20 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

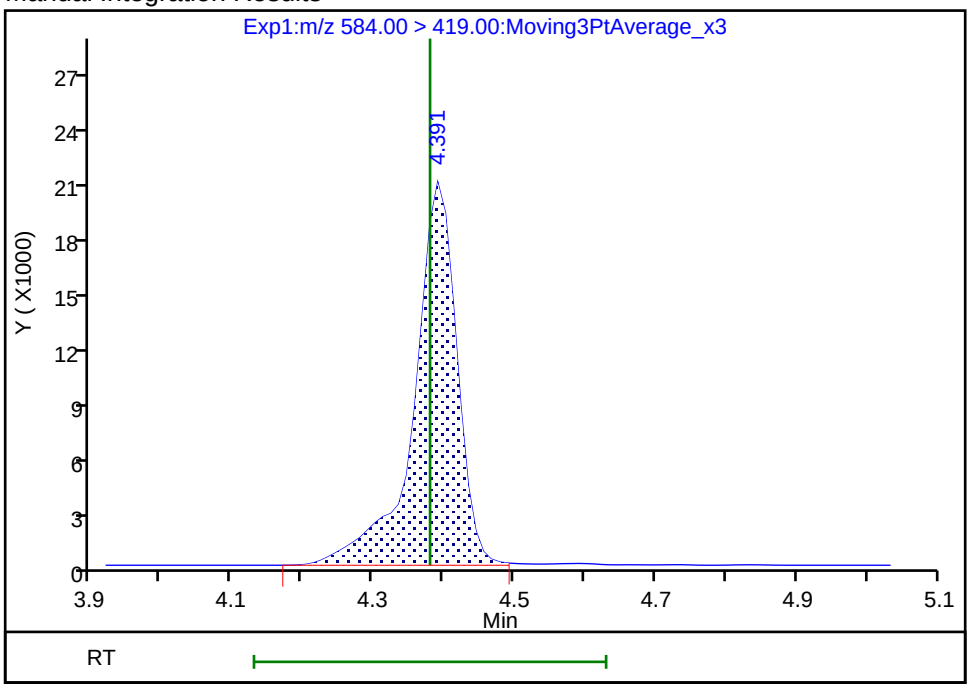
Processing Integration Results

RT: 4.39
Area: 88591
Amount: 2.566940
Amount Units: ng/ml



Manual Integration Results

RT: 4.39
Area: 87775
Amount: 2.543296
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:56:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCVL 200-164334/2 Calibration Date: 02/26/2021 12:54

Instrument ID: LC812 Calib Start Date: 12/22/2020 12:48

GC Column: C-18 ID: 4.60(mm) Calib End Date: 12/22/2020 13:29

Lab File ID: PA210226A02.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.002	1.004		0.125	0.125	0.2	50.0
Perfluoropentanoic acid (PFPeA)	AveID	1.107	1.239		0.0560	0.0500	11.9	50.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.131	1.155		0.0451	0.0442	2.1	50.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	1.834	1.683		0.0429	0.0467	-8.2	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.092	1.126		0.0515	0.0500	3.0	50.0
Perfluoropentanesulfonic acid	AveID	1.312	1.341		0.0479	0.0469	2.2	50.0
HFPO-DA	AveID	1.385	1.821		0.131	0.100	31.4	50.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.178	1.101		0.0425	0.0455	-6.6	50.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.092	1.084		0.0496	0.0500	-0.8	50.0
DONA	AveID	3.349	3.341		0.0470	0.0471	-0.2	50.0
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	AveID	1.112	0.9109		0.0970	0.119	-18.1	50.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.350	1.347		0.0475	0.0476	-0.2	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.084	1.074		0.0495	0.0500	-0.9	50.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.150	1.265		0.0510	0.0464	10.0	50.0
Perfluorononanoic acid (PFNA)	AveID	1.107	1.050		0.0475	0.0500	-5.1	50.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	1.283	1.236		0.0449	0.0466	-3.7	50.0
Perfluorononanesulfonic acid	AveID	0.8581	0.9177		0.0513	0.0480	7.0	50.0
Perfluorodecanoic acid (PFDA)	AveID	1.031	0.9664		0.0469	0.0500	-6.2	50.0
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	AveID	0.6801	0.5791		0.0408	0.0479	-14.8	50.0
Perfluorooctanesulfonamide (FOSA)	AveID	1.002	1.025		0.0512	0.0500	2.3	50.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.8864	0.7722		0.109	0.125	-12.9	50.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6841	0.7232		0.0510	0.0482	5.7	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	1.020	0.9671		0.0474	0.0500	-5.2	50.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9257	1.150		0.155	0.125	24.2	50.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	1.331	1.033		0.0365	0.0471	-22.4	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.100	1.048		0.0476	0.0500	-4.7	50.0
10:2 FTS	AveID	0.3501	0.2454		0.0338	0.0482	-29.9	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2517	0.3001		0.0577	0.0484	19.2	50.0
Perfluorotridecanoic acid (PFTriA)	AveID	0.8926	0.9619		0.0539	0.0500	7.8	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1855	0.1871		0.0505	0.0500	0.9	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCVL 200-164334/2 Calibration Date: 02/26/2021 12:54

Instrument ID: LC812 Calib Start Date: 12/22/2020 12:48

GC Column: C-18 ID: 4.60(mm) Calib End Date: 12/22/2020 13:29

Lab File ID: PA210226A02.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-hexadecanoic acid (PFHxDA)	L1ID		1.366		0.0581	0.0500	16.2	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8998	0.8637		0.0480	0.0500	-4.0	50.0
13C4 PFBA	Ave	1.343	1.363		1.27	1.25	1.5	50.0
13C5 PFPeA	Ave	0.9710	1.047		1.35	1.25	7.8	50.0
13C3 PFBS	Ave	1.278	1.323		1.20	1.16	3.5	50.0
M2-4:2 FTS	Ave	0.1066	0.1142		1.25	1.17	7.1	50.0
13C2 PFHxA	Ave	1.018	1.068		1.31	1.25	4.9	50.0
13C3 HFPO-DA	Ave	0.1792	0.1047		0.730	1.25	-41.6	50.0
18O2 PFHxS	Ave	0.9511	1.034		1.29	1.18	8.7	50.0
13C4 PFHpA	Ave	0.9742	0.9703		1.25	1.25	-0.4	50.0
M2-6:2 FTS	Ave	0.1187	0.1257		1.26	1.19	5.9	50.0
13C4 PFOA	Ave	0.9896	1.055		1.33	1.25	6.6	50.0
13C4 PFOS	Ave	0.6528	0.6789		1.24	1.20	4.0	50.0
13C5 PFNA	Ave	0.8730	0.9010		1.29	1.25	3.2	50.0
13C2 PFDA	Ave	0.8346	0.8567		1.28	1.25	2.6	50.0
M2-8:2 FTS	Ave	0.1225	0.1390		1.36	1.20	13.5	50.0
13C8 FOSA	Ave	1.227	1.285		1.31	1.25	4.7	50.0
d3-NMeFOSAA	Ave	0.0605	0.0561		1.16	1.25	-7.3	50.0
13C2 PFUnA	Ave	0.6856	0.6602		1.20	1.25	-3.7	50.0
d5-NEtFOSAA	Ave	0.0585	0.0540		1.15	1.25	-7.8	50.0
13C2 PFDoA	Ave	0.7238	0.6883		1.19	1.25	-4.9	50.0
13C2 PFTeDA	Ave	0.5353	0.5143		1.20	1.25	-3.9	50.0
13C2 PFHxDA	Ave	0.5718	0.4756		1.04	1.25	-16.8	50.0

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A02.d
Lims ID: CCVL
Client ID:
Sample Type: CCVL
Inject. Date: 26-Feb-2021 12:54:39 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCVL
Misc. Info.: 200-0044972-002 Plate: 1 Rack: 2
Operator ID: lc812tech Instrument ID: LC812
Sublist: chrom-PFC_LC812*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 01-Mar-2021 11:07:47 Calib Date: 22-Dec-2020 13:29:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1604

First Level Reviewer: deannd Date: 26-Feb-2021 15:29:49
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.089	2.082	0.007	0.598	1582766	1.27		101	12026	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.089	2.082	0.007	1.000	158907	0.1252		100	51.1	
D 3 13C5 PFPeA										
267.90 > 223.00	2.411	2.401	0.010	0.690	1216169	1.35		108	4066	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.411	2.401	0.010	1.000	60278	0.0560		112	4.1	M
D 47 13C3 PFBS										
301.90 > 80.00	2.424	2.427	-0.003	0.694	1428864	1.20		104	276813	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.424	2.427	-0.003	1.000	62734	0.0451	Target=2.21	102	148	
298.90 > 99.00	2.424	2.427	-0.003	1.000	28021		2.24(1.11-3.32)		25.0	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.720	2.723	-0.003	0.779	123818	1.25		107	155	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.732	2.723	0.009	1.004	8334	0.0429		91.8	237	
D 7 13C2 PFHxA										
315.00 > 270.00	2.768	2.759	0.009	0.793	1240215	1.31		105	3522	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.768	2.759	0.009	1.000	55845	0.0515	Target=12.83	103	15.4	
313.00 > 119.00	2.756	2.759	-0.003	0.996	4856		11.50(6.42-19.25)		7.5	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.768	2.771	-0.003	0.887	60403	0.0479	Target=3.35	102	223	
349.00 > 99.00	2.768	2.771	-0.003	0.887	16265		3.71(1.67-5.02)		31.6	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.878	2.869	0.009	0.824	121576	0.7303		58.4	970	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										
329.10 > 285.00	2.878	2.869	0.009	1.000	17712	0.1314		131	4.9	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.122	3.123	-0.001	1.000	48110	0.0425	Target=4.15	93.4	175	M
399.00 > 99.00	3.132	3.123	0.009	1.003	12792		3.76(2.08-6.23)		14.8	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.122	3.123	-0.001	0.894	1135706	1.29		109	3668	
D 9 13C4 PFHpA										
367.00 > 322.00	3.132	3.133	-0.001	0.897	1126847	1.25		99.6	3260	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.132	3.133	-0.001	1.000	48842	0.0496	Target=3.66	99.2	20.2	
363.00 > 169.00	3.132	3.133	-0.001	1.000	13844		3.53(1.83-5.49)		50.2	
77 DONA										
377.00 > 251.00	3.165	3.165	0.0	0.832	99267	0.0470	Target=2.43	99.8	170	
377.00 > 85.00	3.165	3.165	0.0	0.832	41938		2.37(1.22-3.65)		83.4	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.474	3.475	-0.001	0.913	40451	0.0475	Target=5.95	99.8	274	
449.00 > 99.00	3.474	3.475	-0.001	0.913	7058		5.73(2.98-8.93)		34.7	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.474	3.475	-0.001	0.995	138675	1.26		106	673	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.474	3.475	-0.001	1.000	12606	0.0970		81.9	134	
D 14 13C4 PFOA										
417.00 > 372.00	3.483	3.484	-0.001	0.997	1224794	1.33		107	2221	
* 62 13C2 PFOA										
415.00 > 370.00	3.492	3.484	0.008		1161318	1.25			1454	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.483	3.493	-0.010	1.000	52605	0.0495	Target=2.58	99.1	15.5	M
413.00 > 169.00	3.492	3.493	-0.001	1.003	21397		2.46(1.29-3.87)		68.5	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.804	3.796	0.008	1.000	37013	0.0510	Target=5.65	110	64.8	M
499.00 > 99.00	3.804	3.796	0.008	1.000	6598		5.61(2.82-8.47)		25.0	M
D 18 13C4 PFOS										
503.00 > 80.00	3.804	3.796	0.008	1.089	753742	1.24		104	3010	
D 19 13C5 PFNA										
468.00 > 423.00	3.825	3.816	0.009	1.095	1046295	1.29		103	2763	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.825	3.816	0.009	1.000	43962	0.0475	Target=7.44	94.9	7.8	M
463.00 > 169.00	3.825	3.816	0.009	1.000	6125		7.18(3.72-11.16)		80.2	M
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.964	3.957	0.007	1.042	36340	0.0449		96.3	317	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.093	4.084	0.009	1.076	27785	0.0513	Target=2.54	107	451	
549.00 > 99.00	4.093	4.084	0.009	1.076	8684		3.20(1.27-3.81)		26.6	
D 23 13C2 PFDA										
515.00 > 470.00	4.115	4.118	-0.003	1.178	994915	1.28		103	3651	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.115	4.118	-0.003	1.000	38458	0.0469	Target=9.29	93.8	33.2	M
513.00 > 169.00	4.115	4.118	-0.003	1.000	4615		8.33(4.64-13.93)		44.9	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.126	4.129	-0.003	1.182	154669	1.36		114	857	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.126	4.129	-0.003	1.000	3583	0.0408		85.2	63.4	M
D 21 13C8 FOSA										
506.00 > 78.00	4.215	4.207	0.008	1.207	1492096	1.31		105	2619	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.215	4.217	-0.002	1.000	61204	0.0512		102	285	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.257	4.260	-0.003	1.219	65162	1.16		92.7	746	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.268	4.260	0.008	1.003	5032	0.1089		87.1	34.5	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.347	4.350	-0.003	1.143	21988	0.0510	Target=2.80	106	181	
599.00 > 99.00	4.347	4.350	-0.003	1.143	6408		3.43(1.40-4.19)		42.6	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.380	4.373	0.007	1.254	766723	1.20		96.3	3121	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.380	4.373	0.007	1.000	29661	0.0474	Target=8.12	94.8	20.1	
563.00 > 169.00	4.369	4.373	-0.004	0.997	3534		8.39(4.06-12.18)		62.7	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.391	4.384	0.007	1.257	62686	1.15		92.2	765	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.391	4.395	-0.004	1.000	7207	0.1552		124	127	M
66 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.467	4.473	-0.006	1.174	30694	0.0365		77.6	801	
D 36 13C2 PFDoA										
615.00 > 570.00	4.611	4.606	0.005	1.320	799391	1.19		95.1	2722	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.601	4.606	-0.005	0.998	33498	0.0476	Target=6.91	95.3	12.5	M
613.00 > 169.00	4.611	4.606	0.005	1.000	5239		6.39(3.45-10.36)		68.2	
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.632	4.616	0.016	1.123	1528	0.0338		70.1	33.8	M
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.774	4.770	0.004	1.255	9161	0.0577	Target=0.51	119	109	
699.00 > 99.00	4.774	4.770	0.004	1.255	16666		0.55(0.26-0.77)		99.4	M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.810	4.806	0.004	1.043	30758	0.0539	Target=4.39	108	15.2	
663.00 > 169.00	4.810	4.806	0.004	1.043	6807		4.52(2.20-6.59)		115	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.995	4.998	-0.003	1.430	597296	1.20		96.1	2089	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.004	4.998	0.006	1.002	4471	0.0505	Target=1.06	101	135	
713.00 > 219.00	4.995	4.998	-0.003	1.000	4536		0.99(0.53-1.59)		164	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.338	5.329	0.009	1.529	552267	1.04		83.2	2069	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.338	5.329	0.009	1.000	30178	0.0581	Target=3.84	116	9.9	
813.00 > 169.00	5.338	5.329	0.009	1.000	7093		4.25(1.92-5.76)		181	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.647	5.649	-0.002	1.058	19079	0.0480	Target=3.92	96.0	26.0	
913.00 > 169.00	5.647	5.649	-0.002	1.058	5819		3.28(1.96-5.88)		251	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCLOQV_00013 Amount Added: 100.00 Units: uL

Report Date: 01-Mar-2021 11:07:47 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A02.d

Injection Date: 26-Feb-2021 12:54:39 Instrument ID: LC812

Lims ID: CCVL

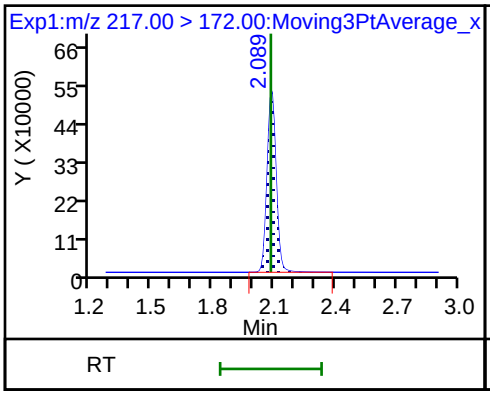
Client ID:

Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2

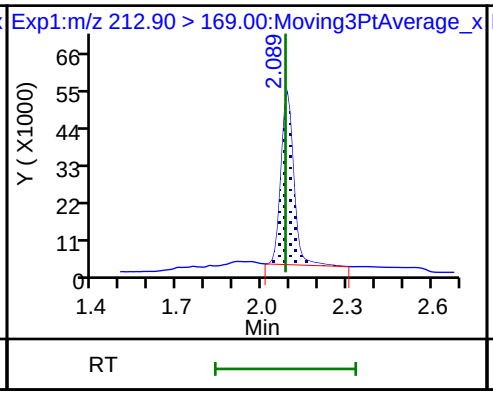
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

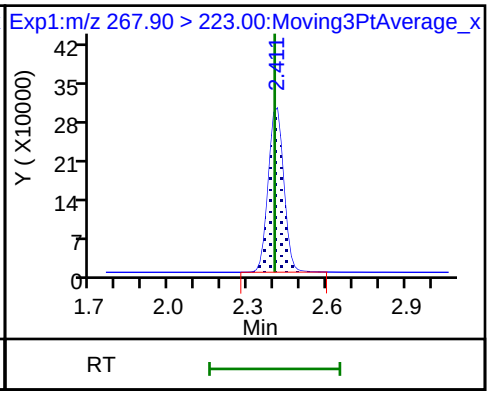
D 1 13C4 PFBA



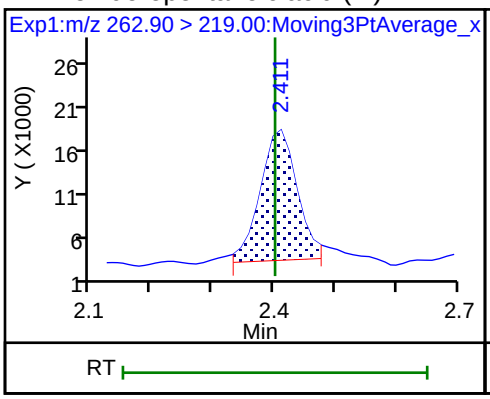
2 Perfluorobutanoic acid



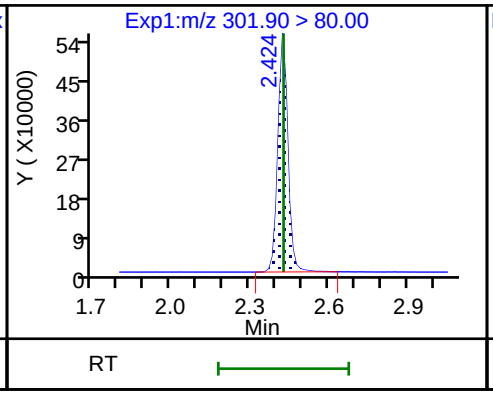
D 3 13C5 PFPeA



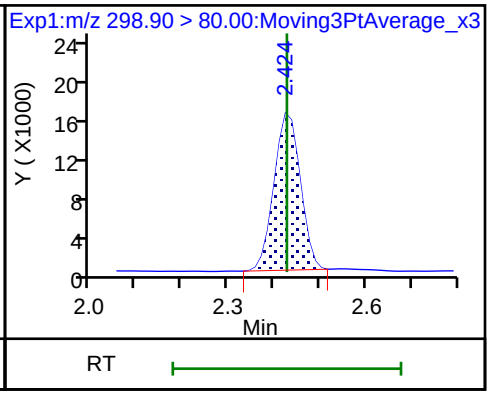
4 Perfluoropentanoic acid (M)



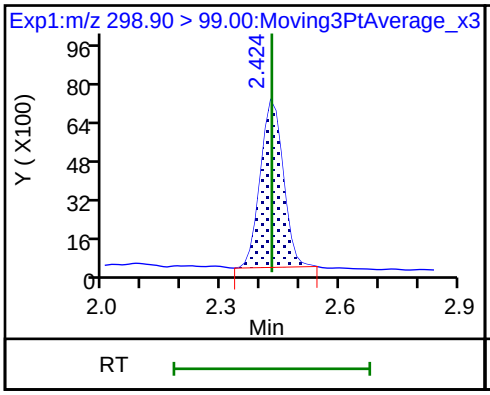
D 47 13C3 PFBS



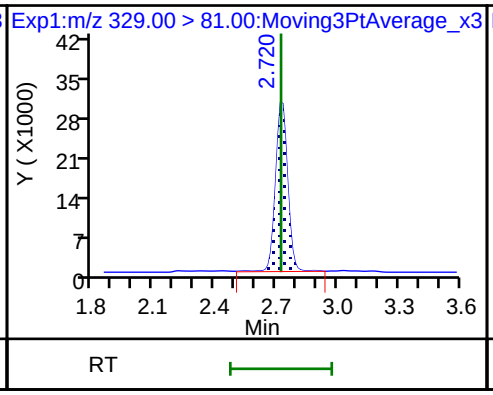
5 Perfluorobutanesulfonic acid



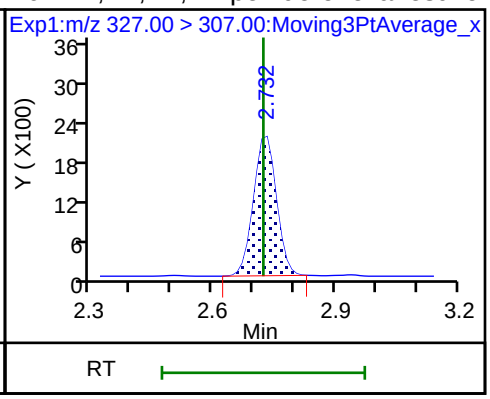
5 Perfluorobutanesulfonic acid



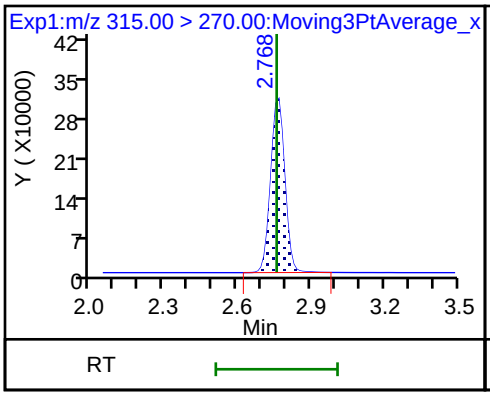
D 60 M2-4:2 FTS



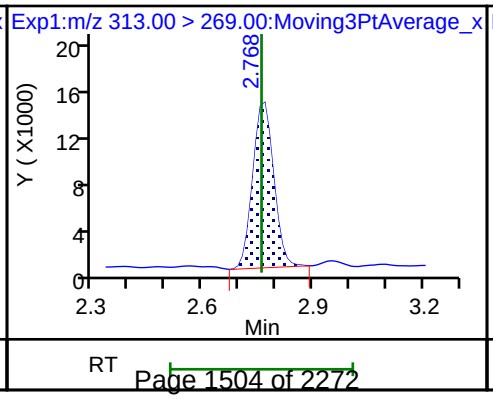
61 1H,1H,2H,2H-perfluorohexanesulfo



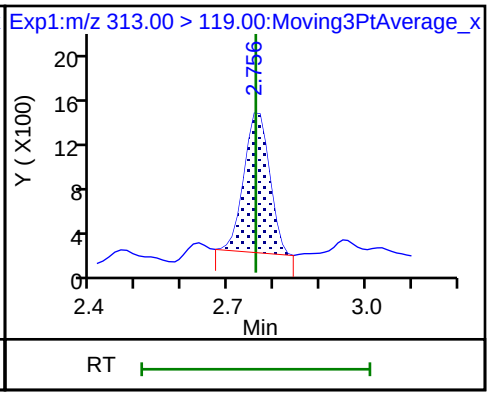
D 7 13C2 PFHxA



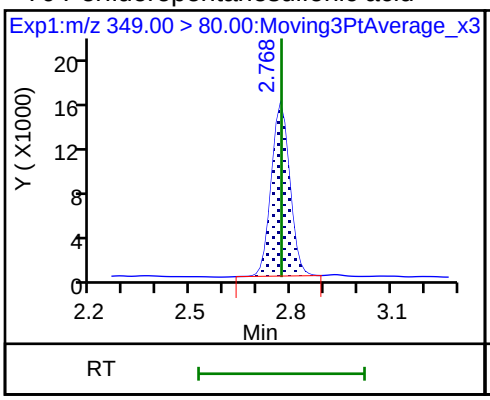
6 Perfluorohexanoic acid



6 Perfluorohexanoic acid



70 Perfluoropentanesulfonic acid



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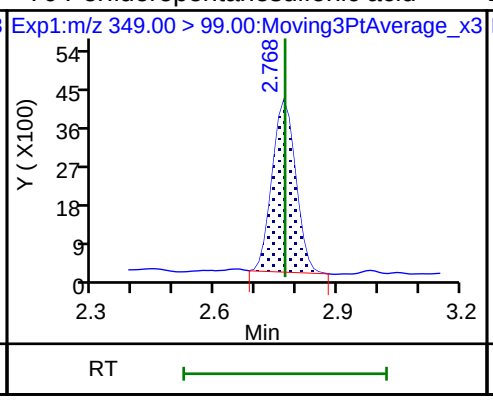
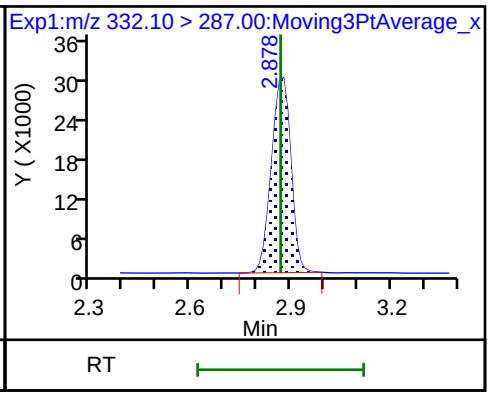
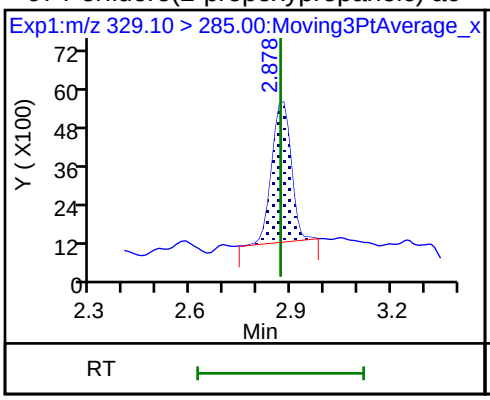


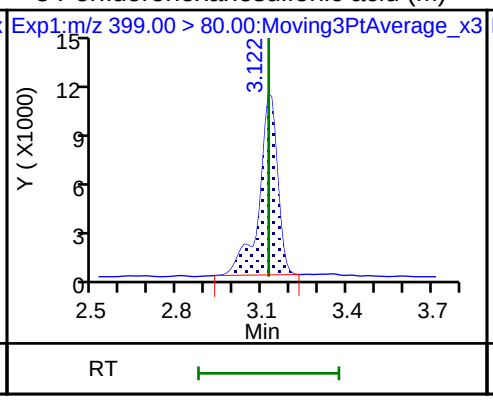
D 64 13C3 HFPO-DA



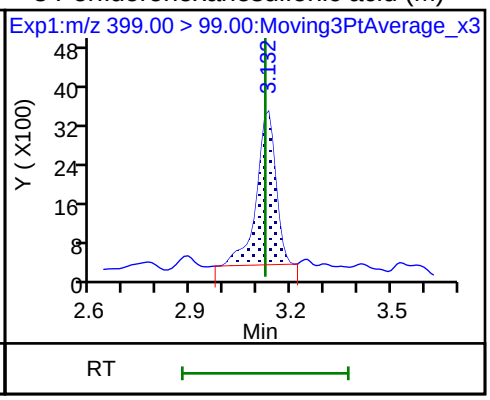
67 Perfluoro(2-propoxypropanoic) ac



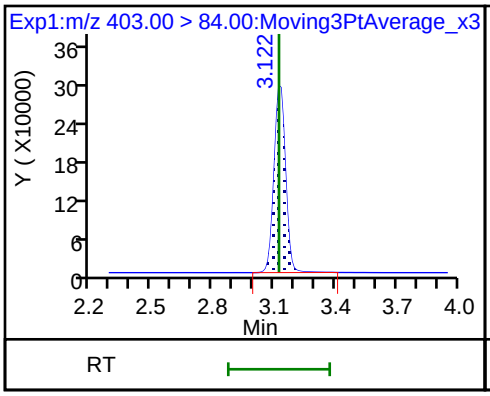
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)



D 11 18O2 PFHxS



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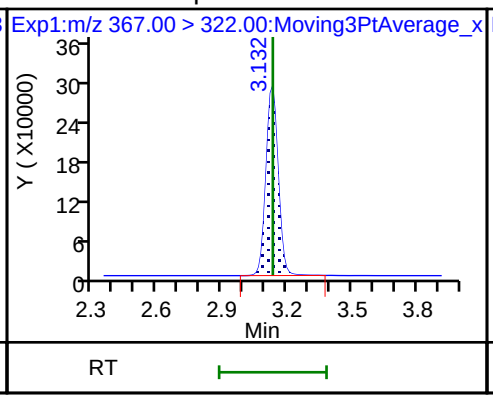
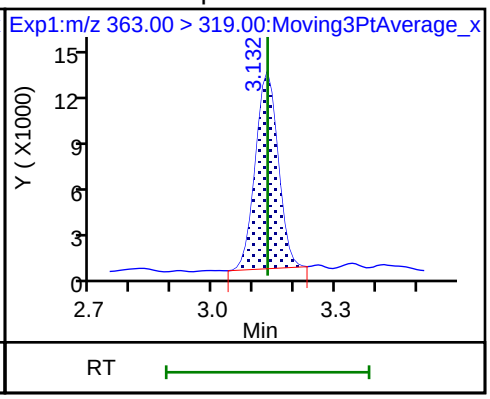


10 Perfluoroheptanoic acid



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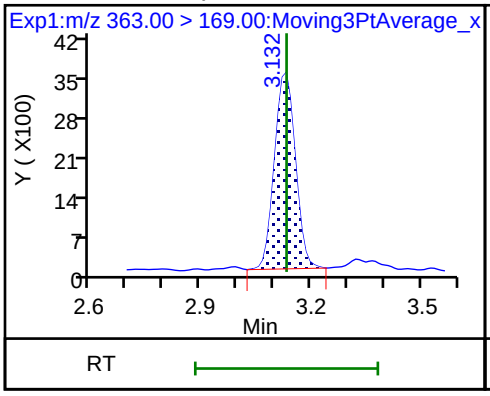
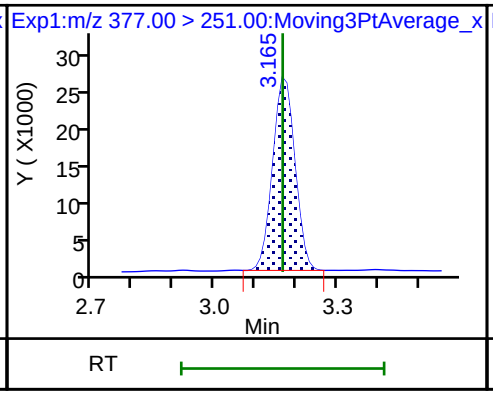
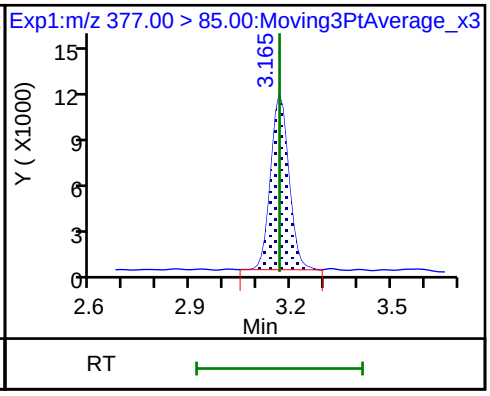


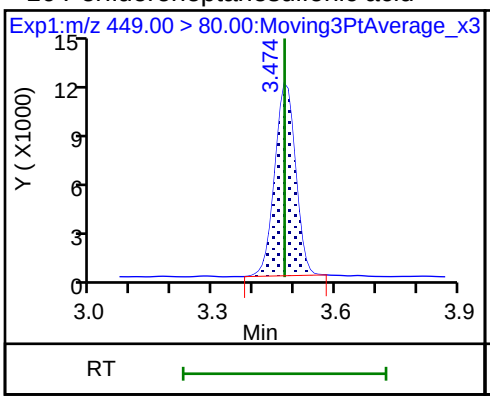
77 DONA



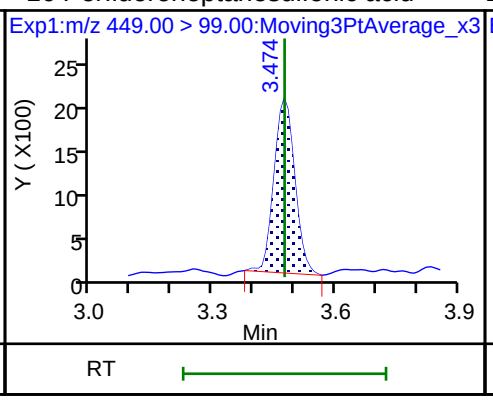
77 DONA



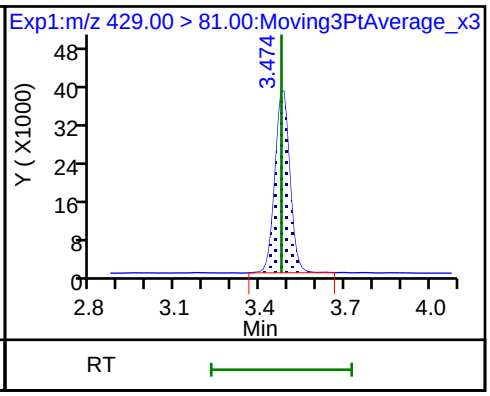
16 Perfluoroheptanesulfonic acid



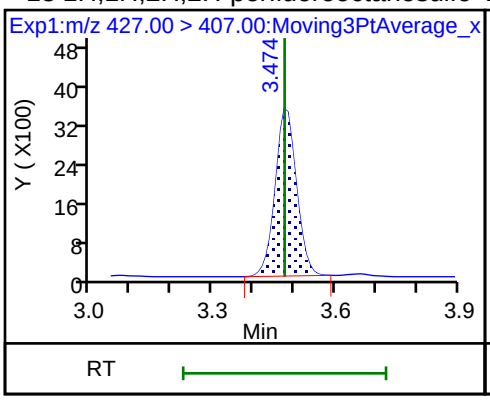
16 Perfluoroheptanesulfonic acid



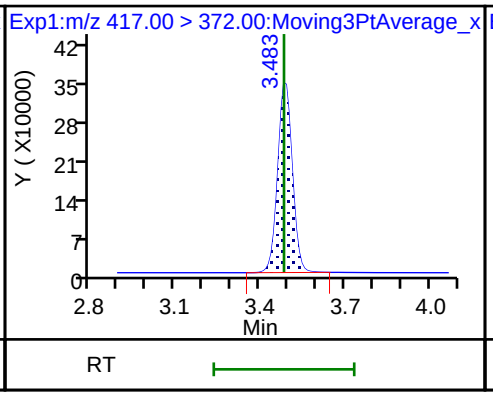
D 12 M2-6:2 FTS



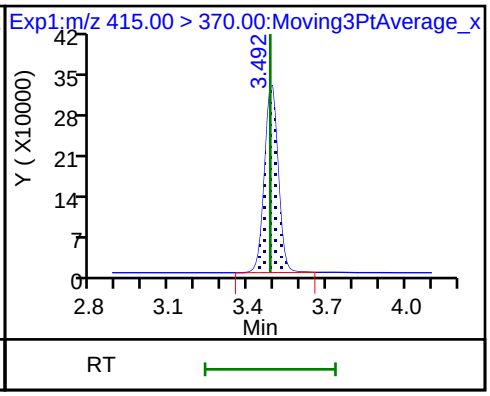
13 1H,1H,2H,2H-perfluorooctanesulfo



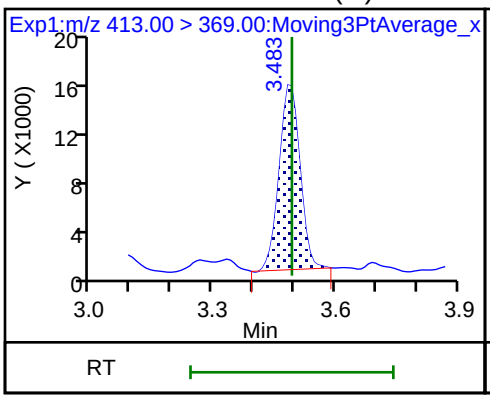
D 14 13C4 PFOA



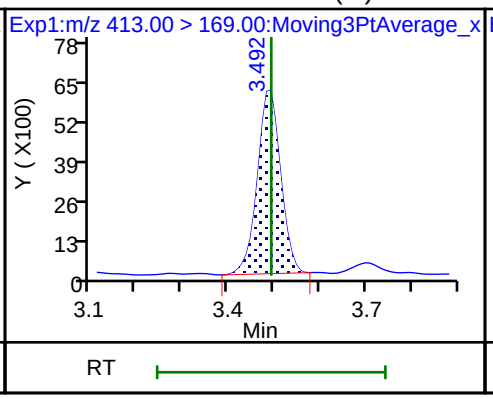
* 62 13C2 PFOA



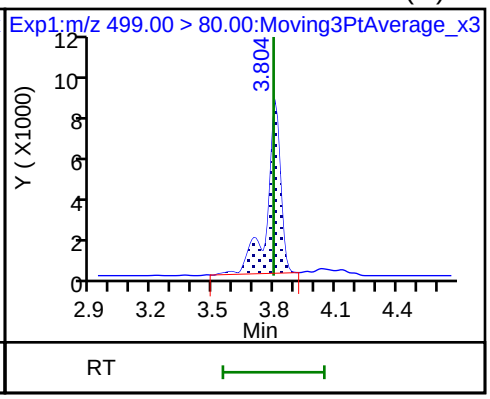
15 Perfluorooctanoic acid (M)



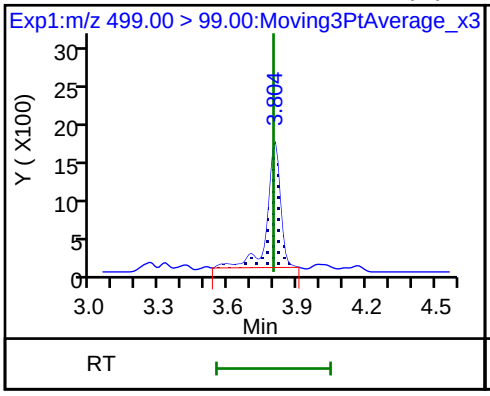
15 Perfluorooctanoic acid (M)



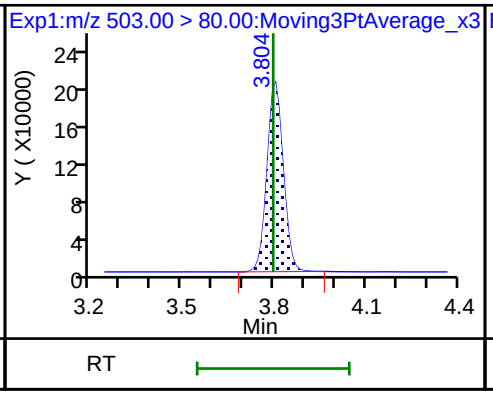
17 Perfluorooctanesulfonic acid (M)



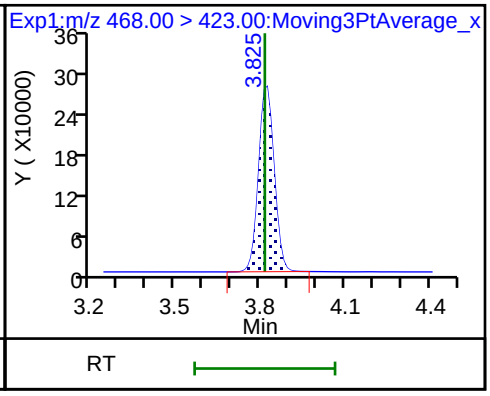
17 Perfluorooctanesulfonic acid (M)



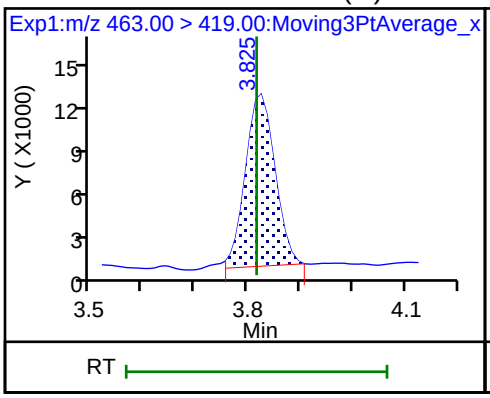
D 18 13C4 PFOS



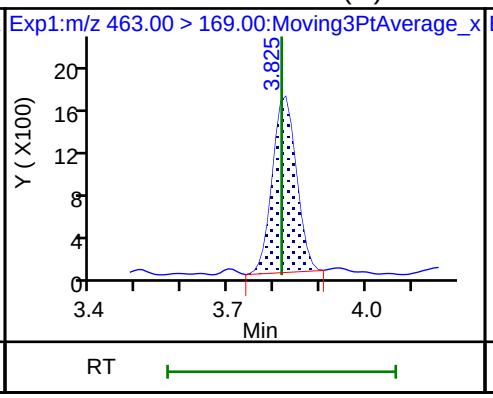
D 19 13C5 PFNA



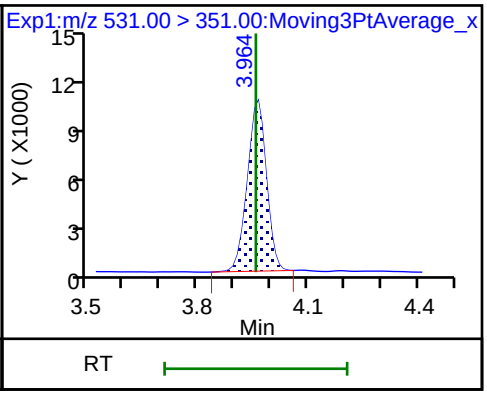
20 Perfluorononanoic acid (M)



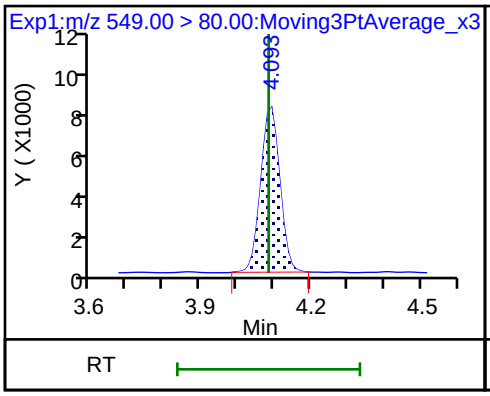
20 Perfluorononanoic acid (M)



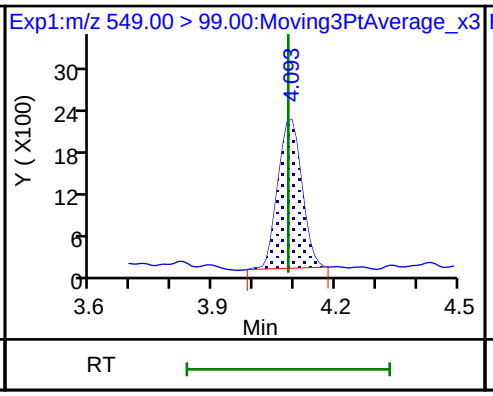
69 9-Chlorohexadecafluoro-3-oxanona



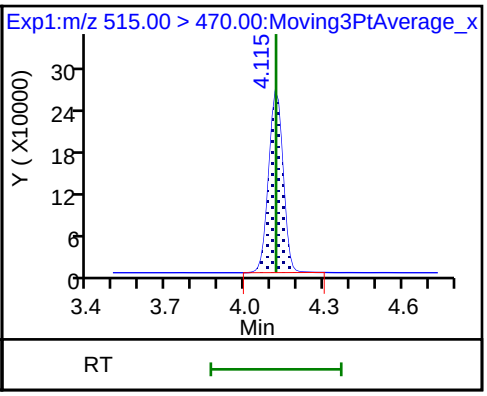
68 Perfluorononanesulfonic acid



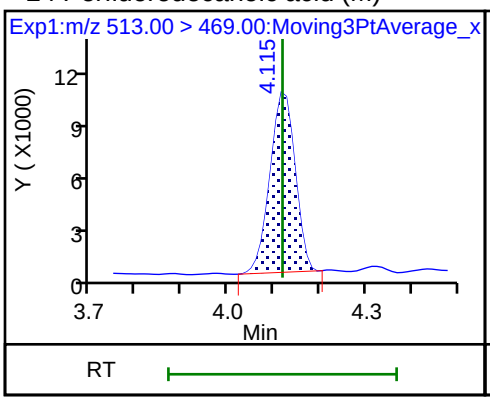
68 Perfluorononanesulfonic acid



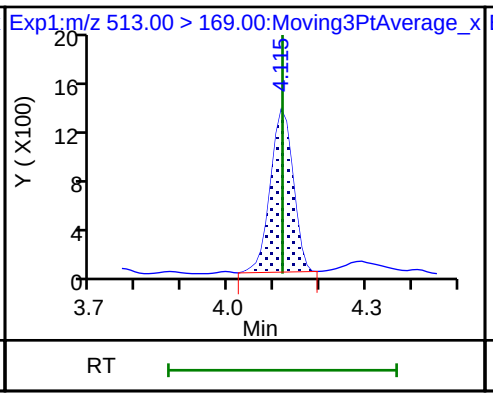
D 23 13C2 PFDA



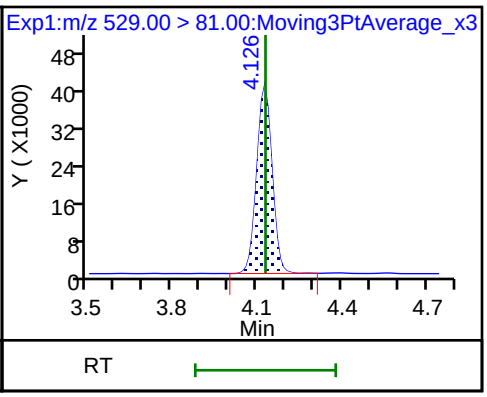
24 Perfluorodecanoic acid (M)



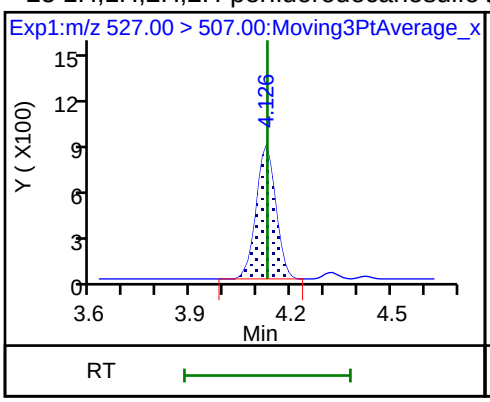
24 Perfluorodecanoic acid



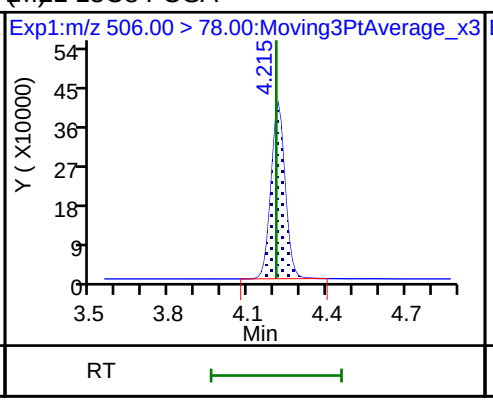
D 26 M2-8:2 FTS



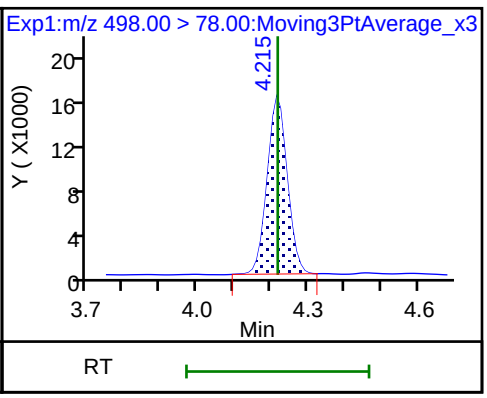
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



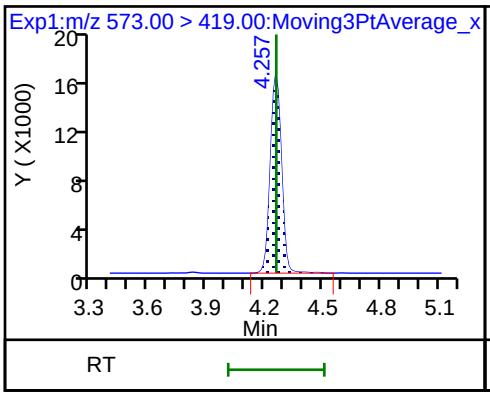
D 21 13C8 FOSA



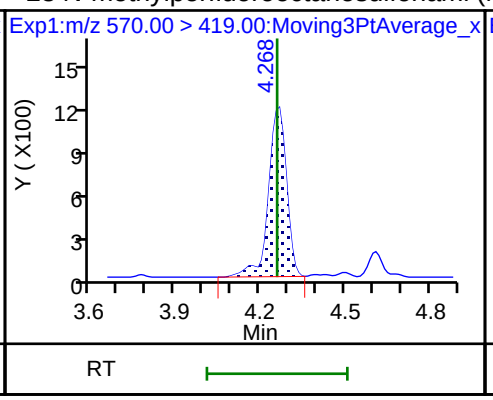
22 Perfluorooctanesulfonamide



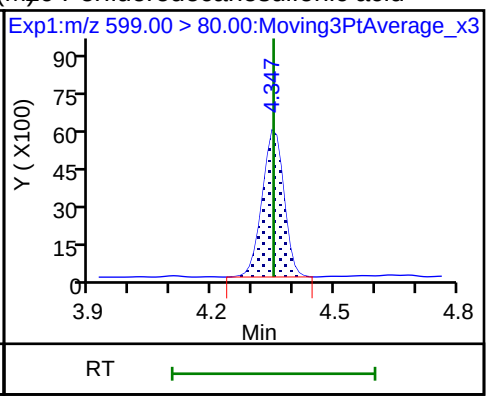
D 27 d3-NMeFOSAA



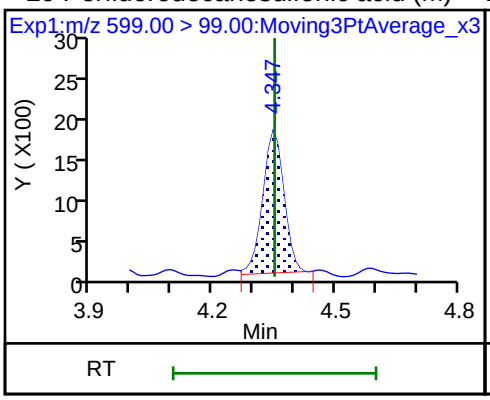
28 N-methylperfluorooctanesulfonami (M)



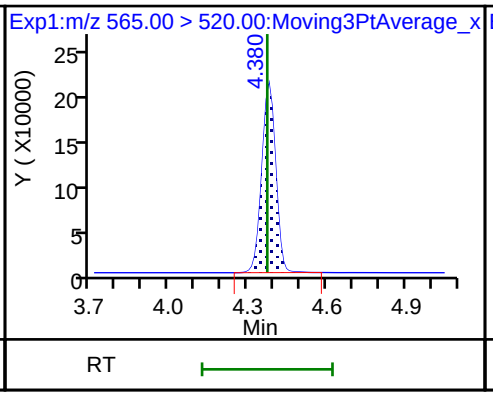
29 Perfluorodecanesulfonic acid



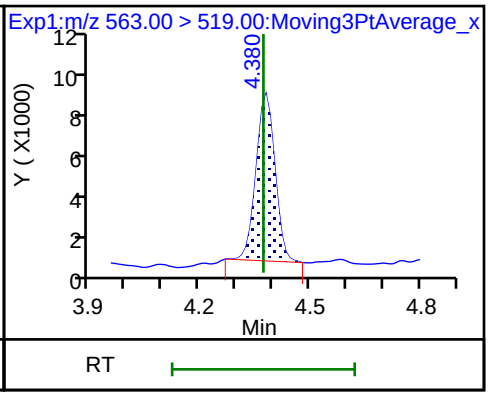
29 Perfluorodecanesulfonic acid (M)



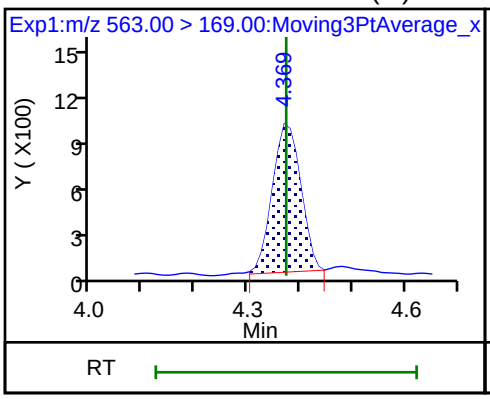
D 30 13C2 PFUnA



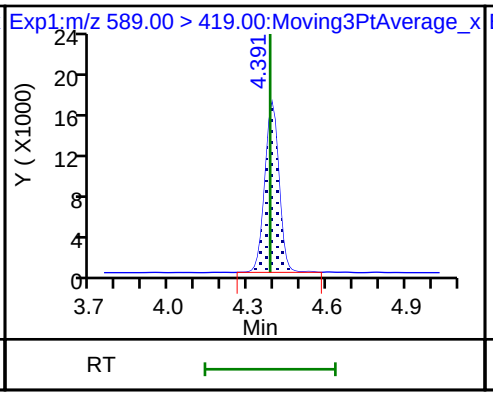
31 Perfluoroundecanoic acid



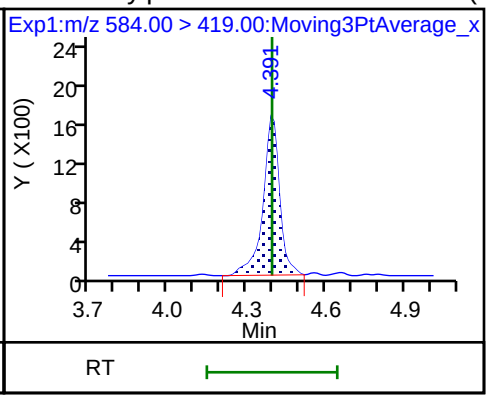
31 Perfluoroundecanoic acid (M)



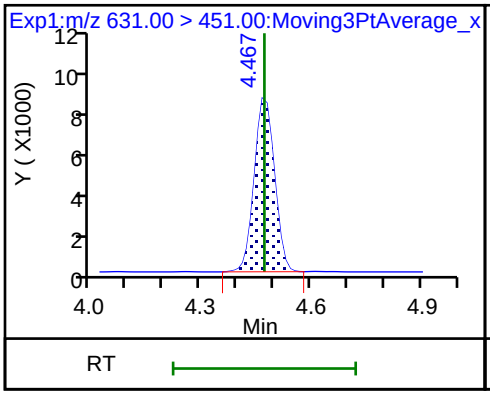
D 32 d5-NEtFOSAA



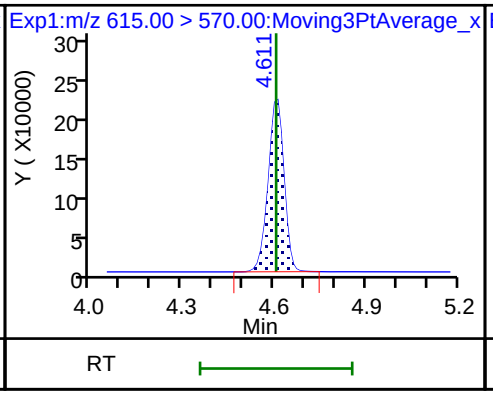
33 N-ethylperfluorooctanesulfonamid (M)



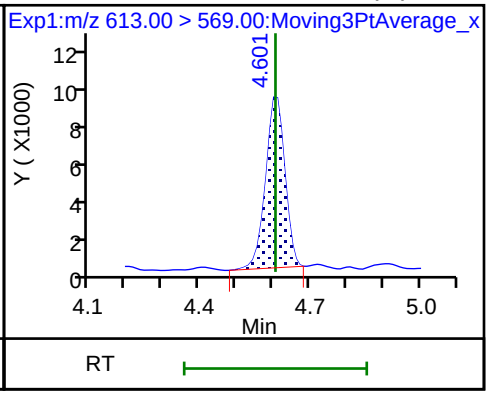
66 11-Chloroeicosafluoro-3-oxaundec



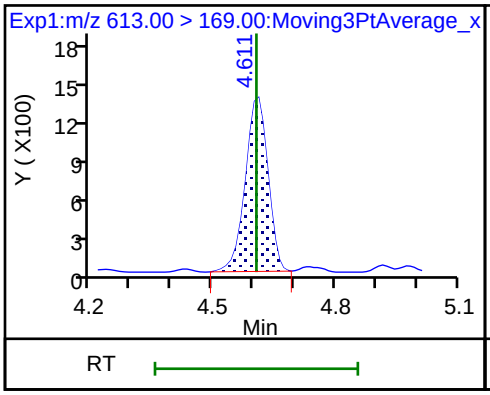
D 36 13C2 PFDoA



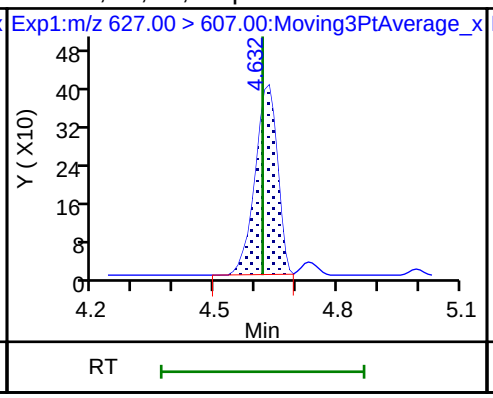
37 Perfluorododecanoic acid (M)



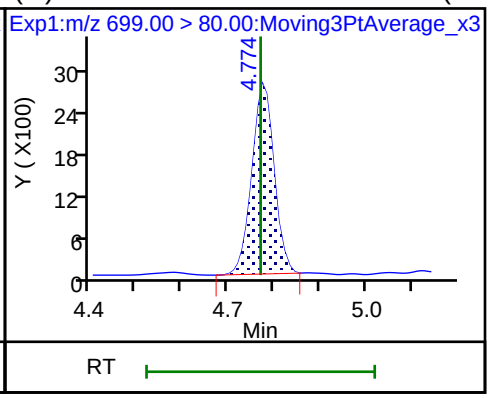
37 Perfluorododecanoic acid



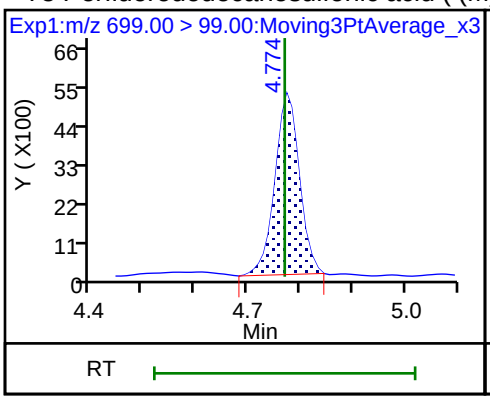
74 1H,1H,2H,2H-perfluorododecanesul (M)



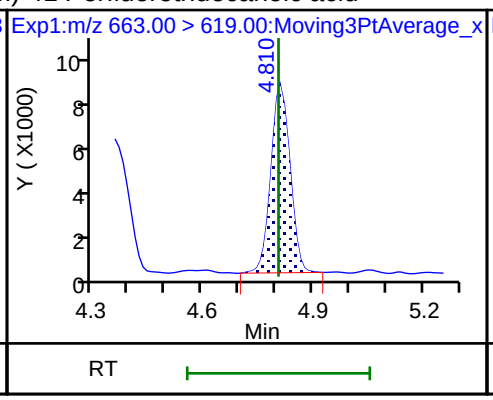
75 Perfluorododecanesulfonic acid (



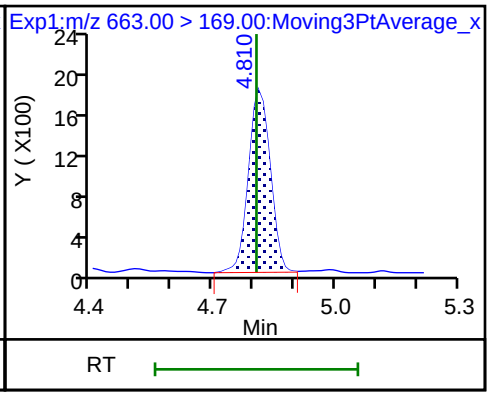
75 Perfluorododecanesulfonic acid ((M)



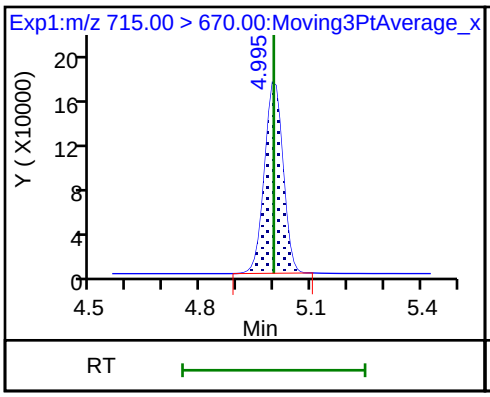
41 Perfluorotridecanoic acid



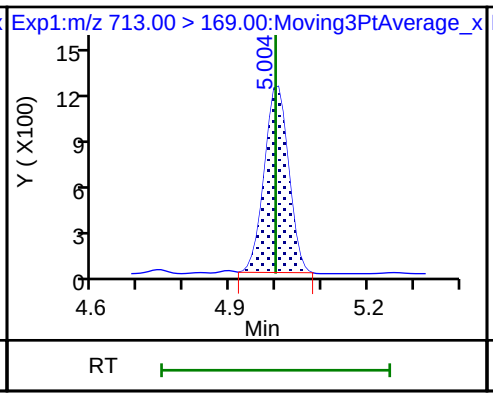
41 Perfluorotridecanoic acid



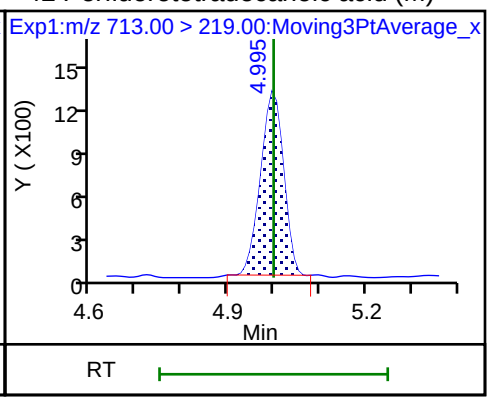
D 43 13C2 PFTeDA



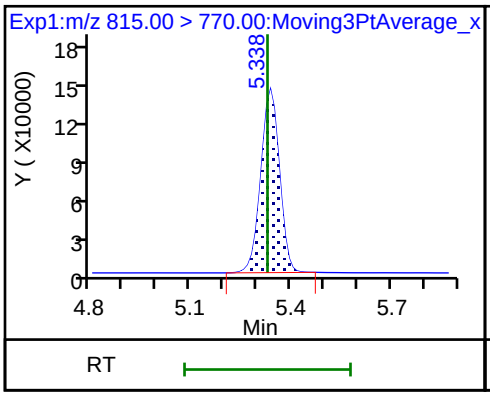
42 Perfluorotetradecanoic acid



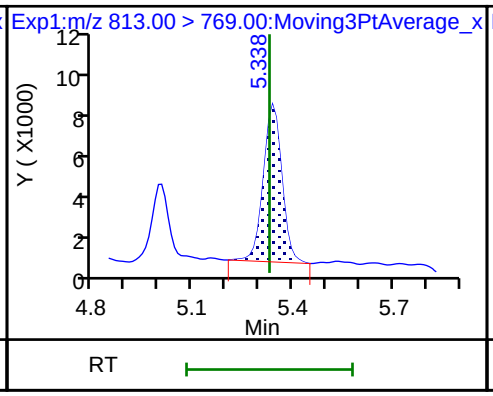
42 Perfluorotetradecanoic acid (M)



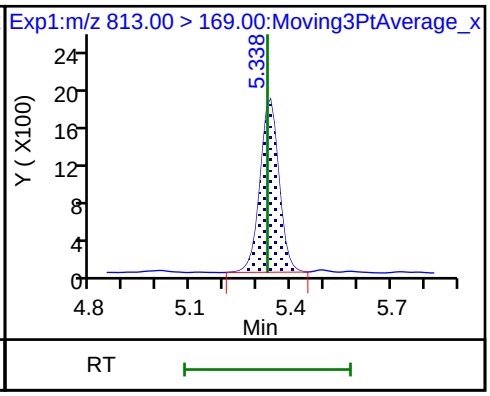
D 44 13C2 PFHxDA



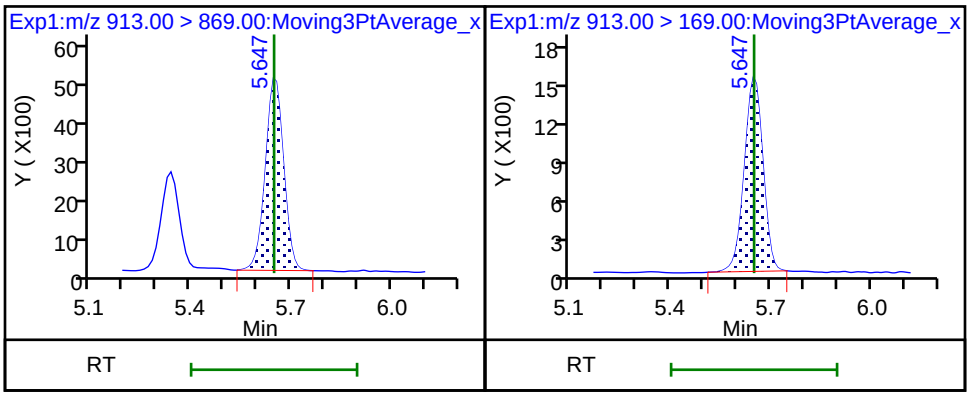
45 Perfluorohexadecanoic acid



45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

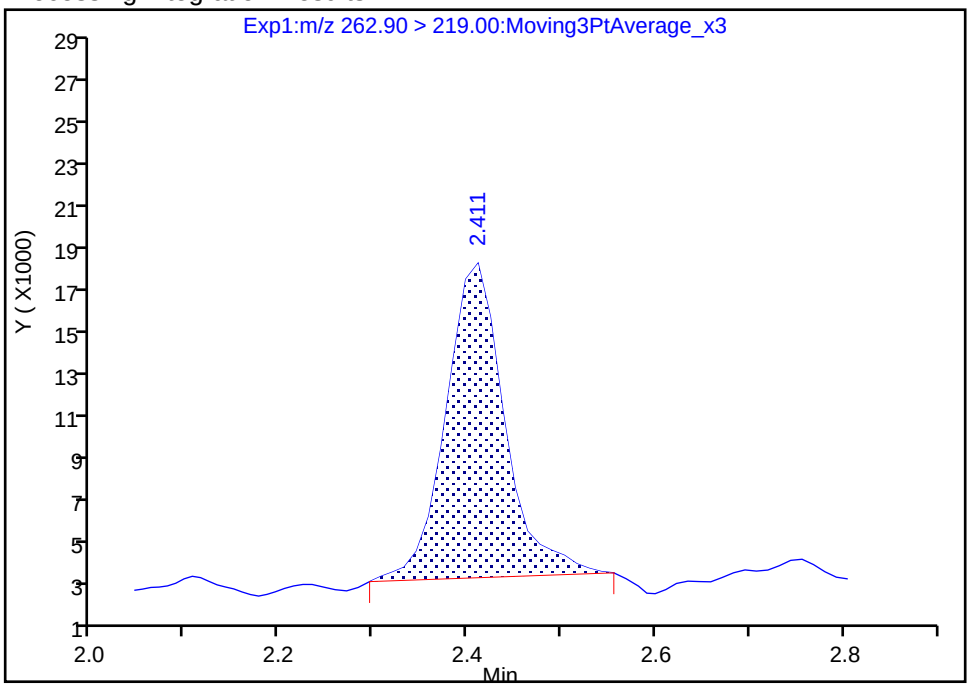
Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A02.d
Injection Date: 26-Feb-2021 12:54:39 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

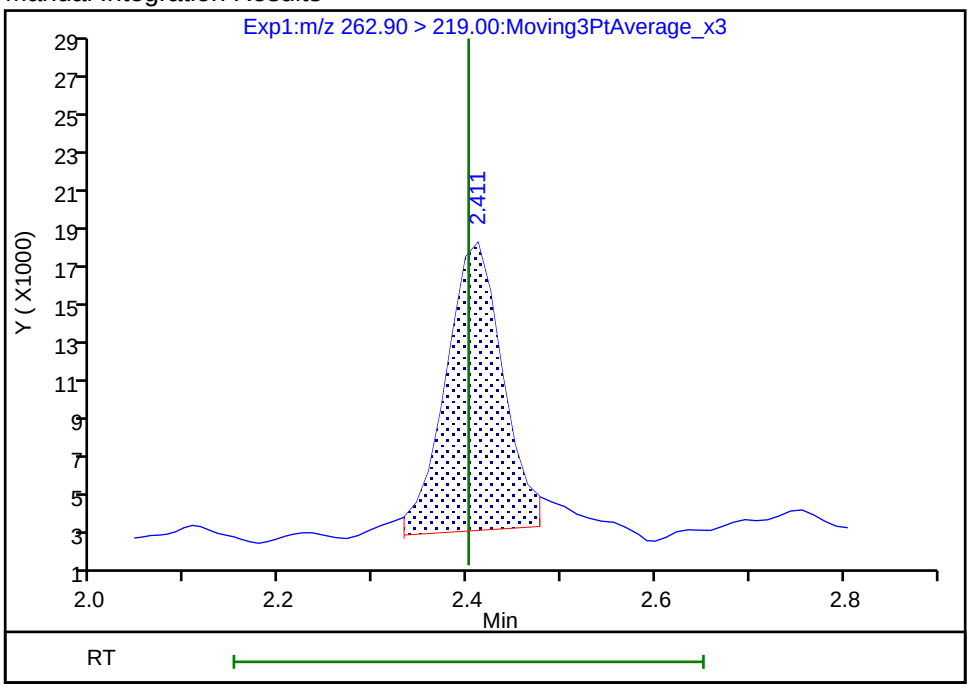
Processing Integration Results

RT: 2.41
Area: 62011
Amount: 0.057561
Amount Units: ng/ml



Manual Integration Results

RT: 2.41
Area: 60278
Amount: 0.055952
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:24:45
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

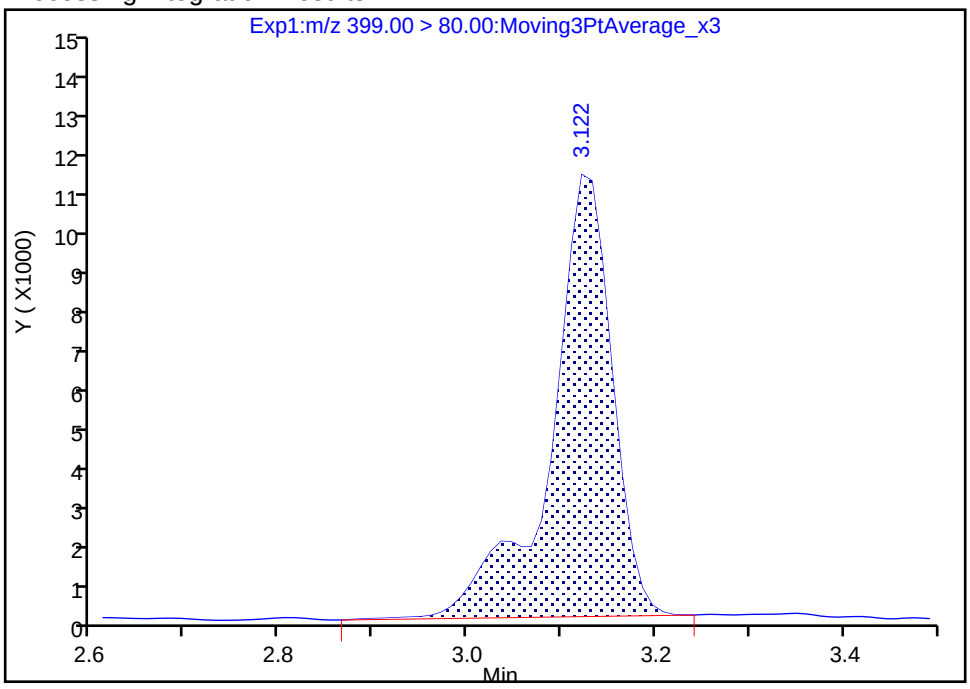
Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A02.d
Injection Date: 26-Feb-2021 12:54:39 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

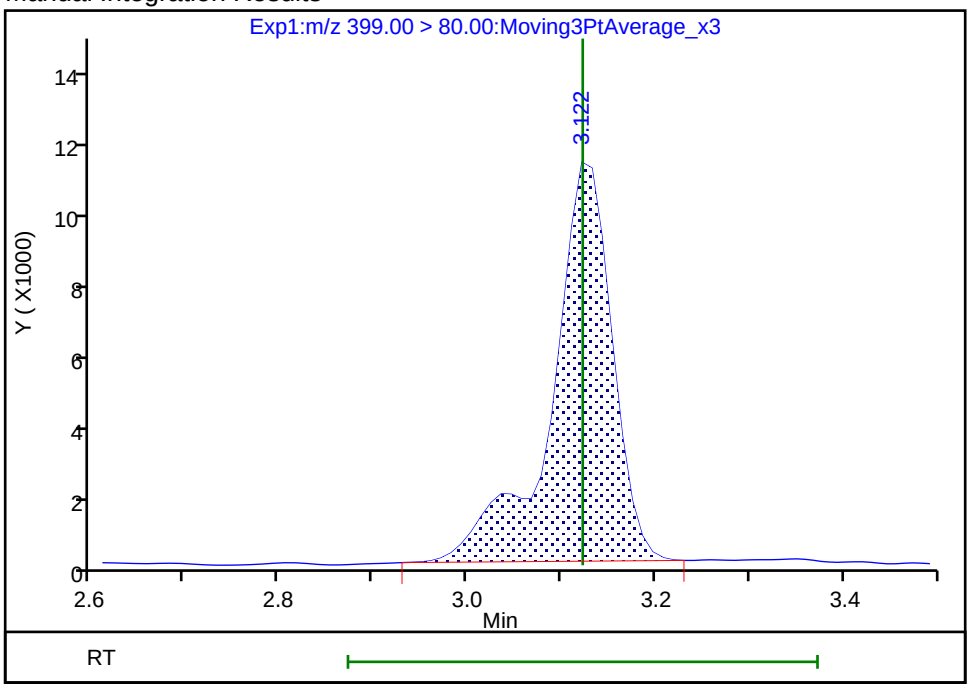
Processing Integration Results

RT: 3.12
Area: 48611
Amount: 0.042948
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 48110
Amount: 0.042506
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:24:57
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

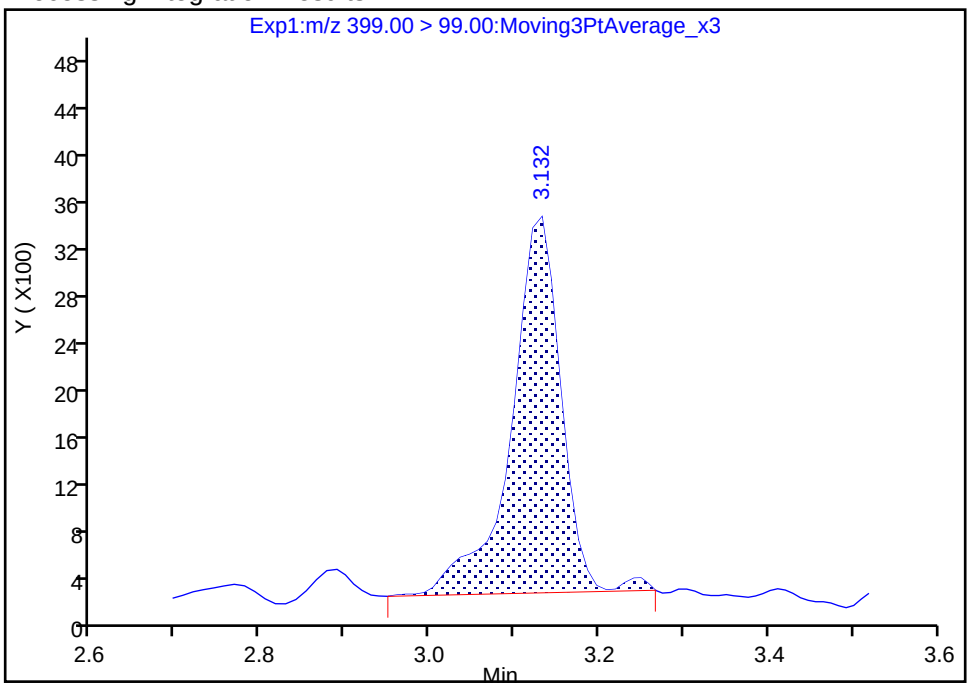
Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A02.d
Injection Date: 26-Feb-2021 12:54:39 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

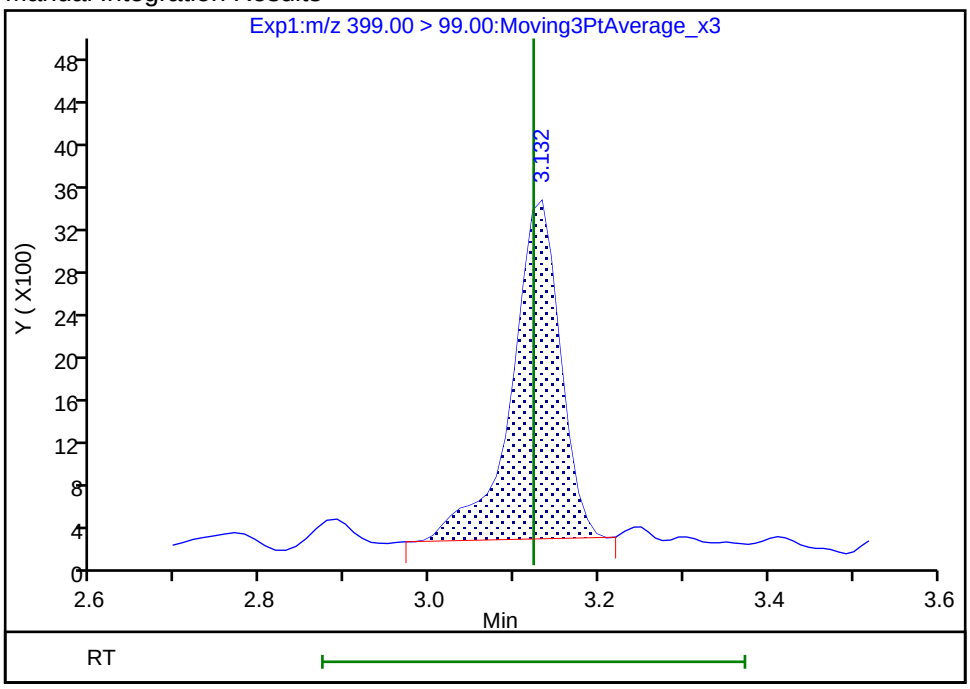
Processing Integration Results

RT: 3.13
Area: 13217
Amount: 0.042948
Amount Units: ng/ml



Manual Integration Results

RT: 3.13
Area: 12792
Amount: 0.042506
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:25:03
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

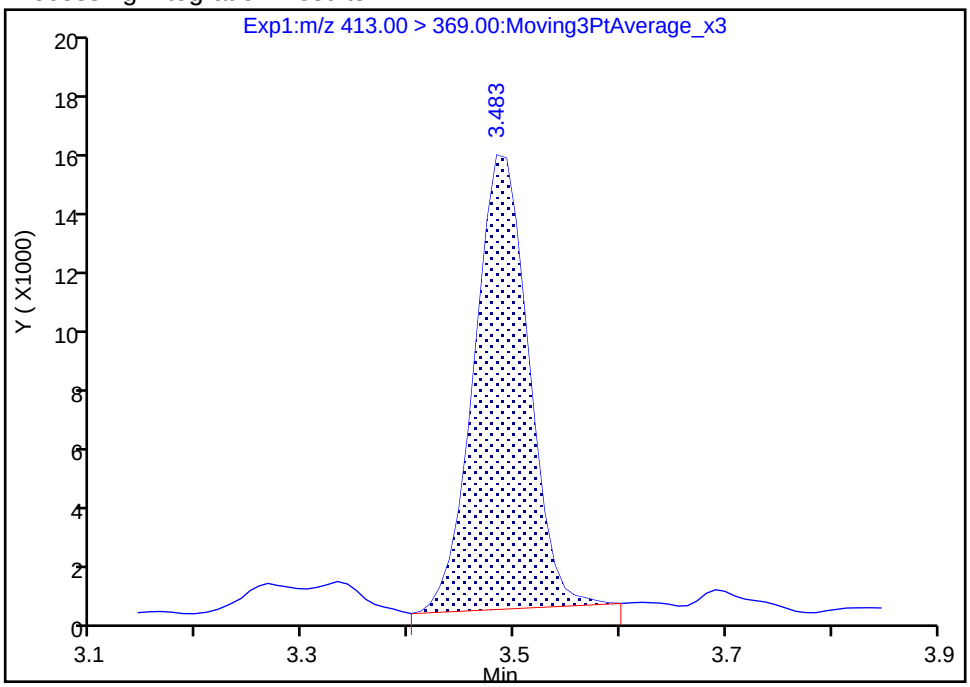
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A02.d				
Injection Date:	26-Feb-2021 12:54:39	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

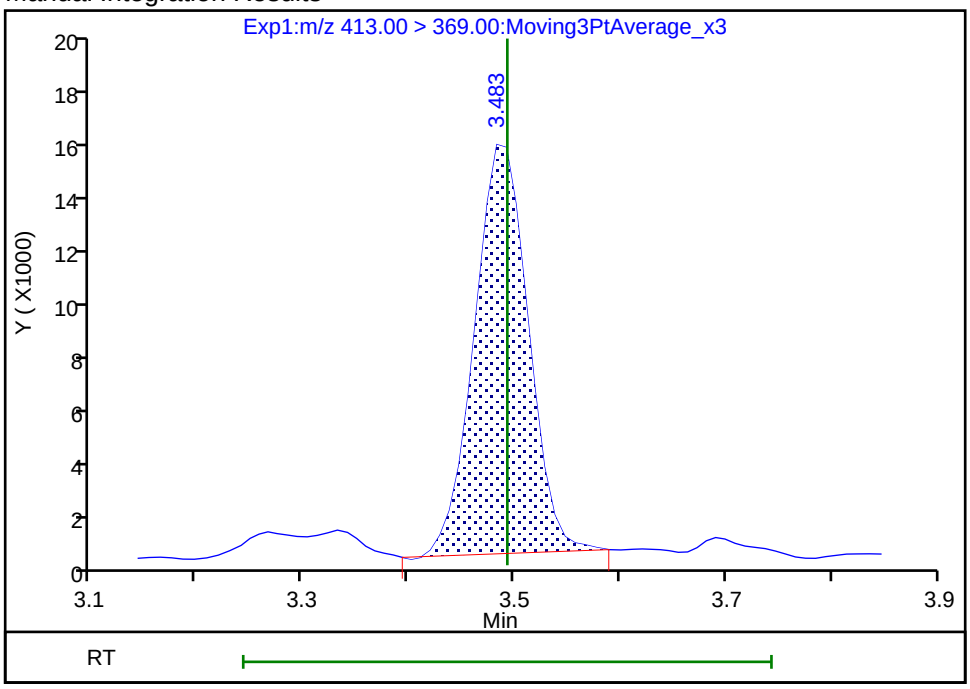
Processing Integration Results

RT: 3.48
Area: 53245
Amount: 0.050132
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 52605
Amount: 0.049529
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:25:18

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

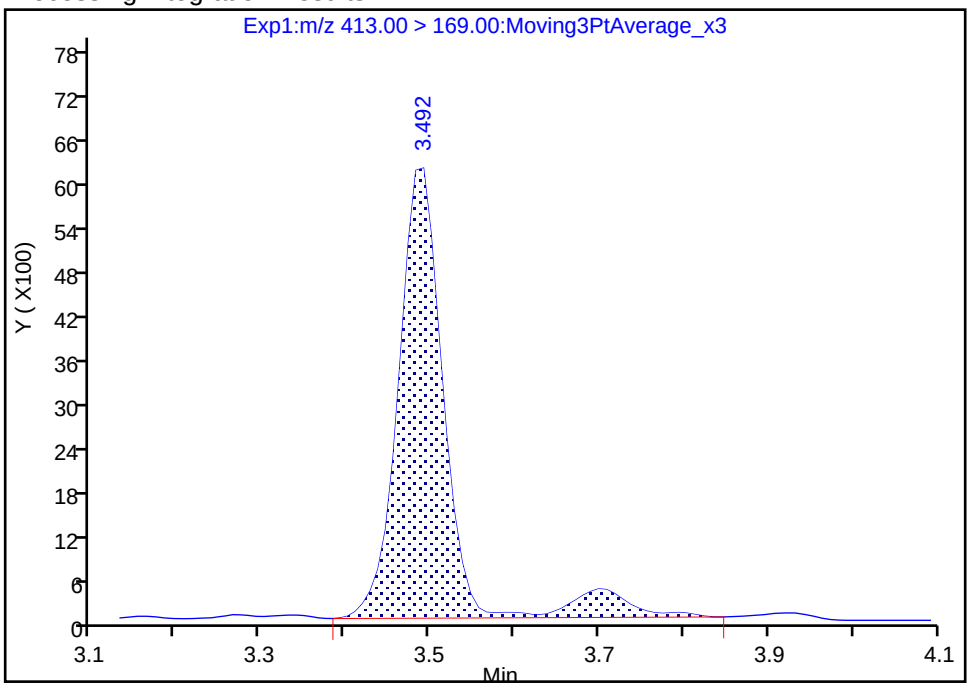
Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A02.d
Injection Date: 26-Feb-2021 12:54:39 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

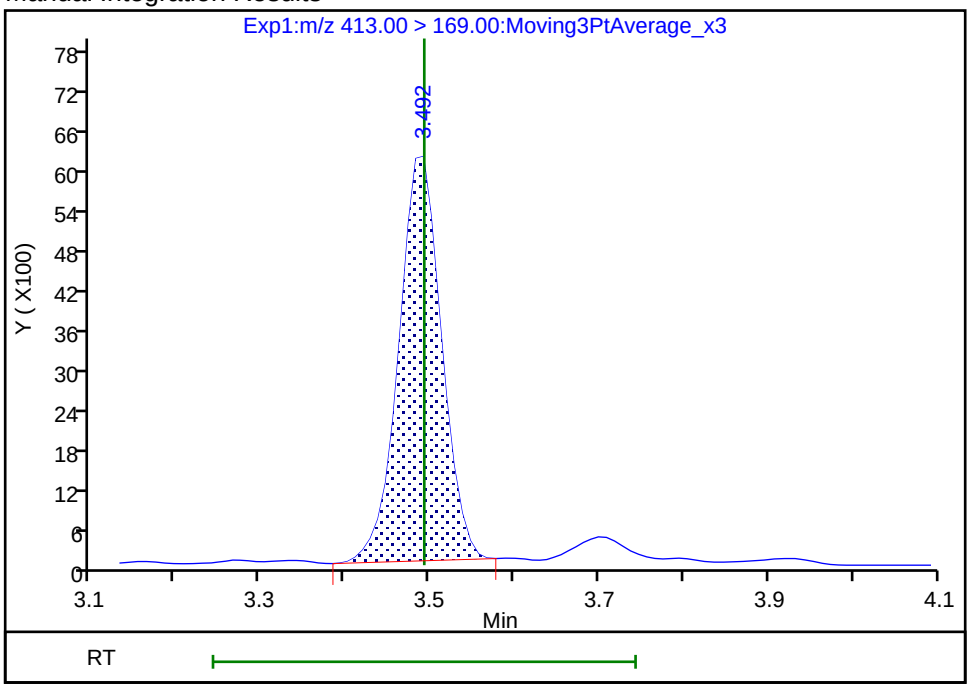
Processing Integration Results

RT: 3.49
Area: 23852
Amount: 0.050132
Amount Units: ng/ml



Manual Integration Results

RT: 3.49
Area: 21397
Amount: 0.049529
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:25:24
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

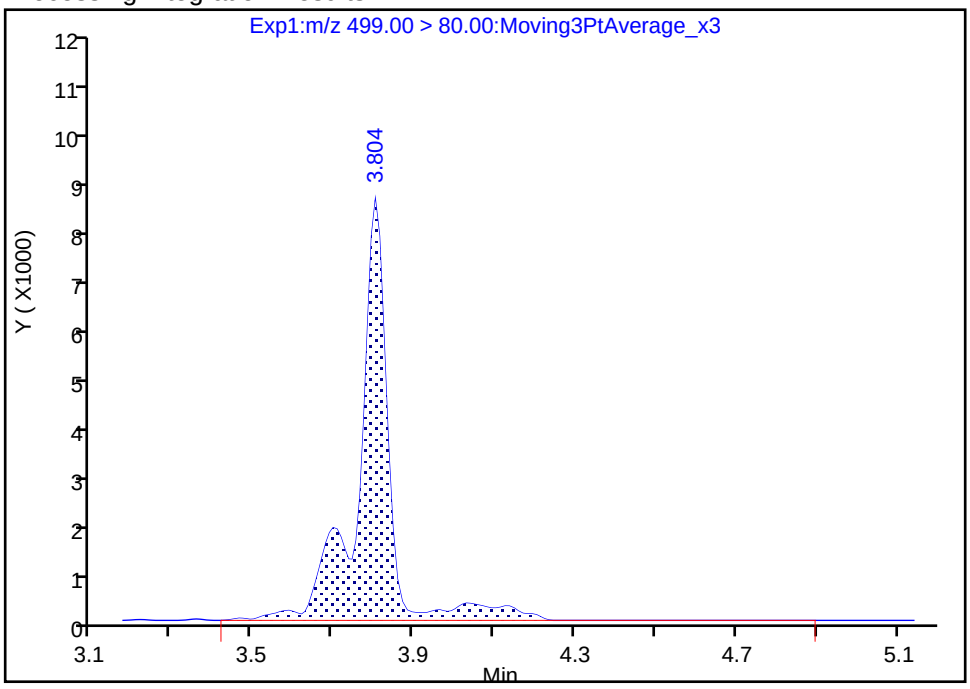
Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A02.d
Injection Date: 26-Feb-2021 12:54:39 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

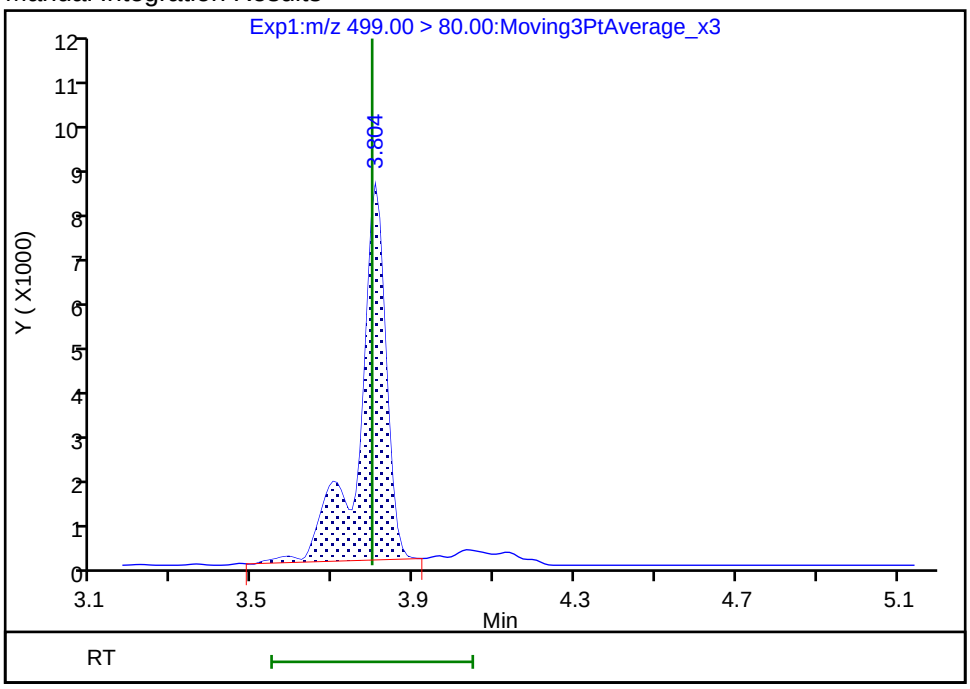
Processing Integration Results

RT: 3.80
Area: 43181
Amount: 0.059525
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 37013
Amount: 0.051023
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:25:32
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

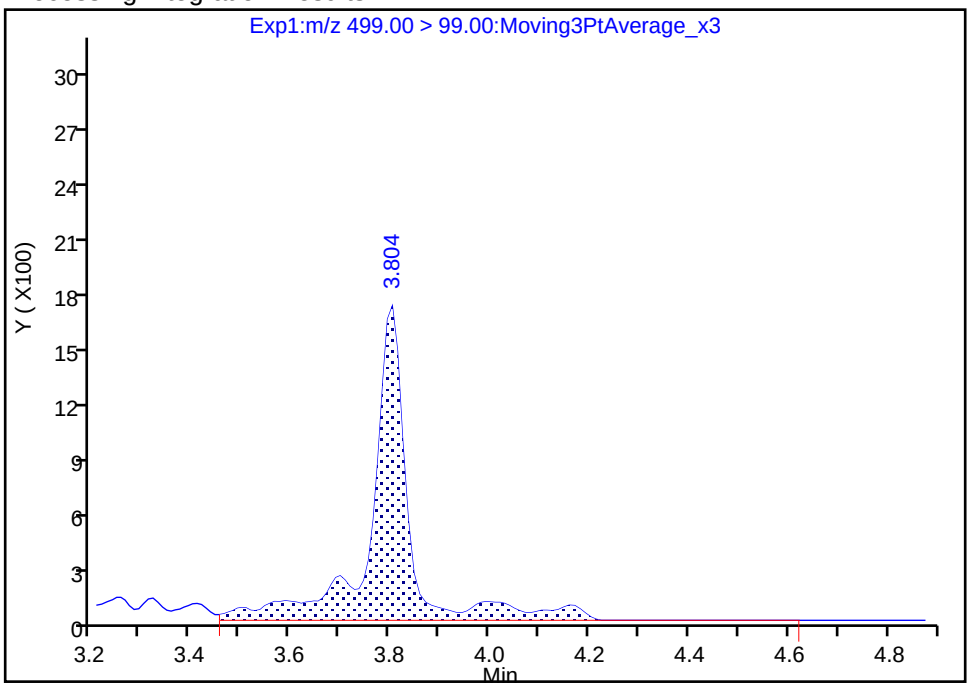
Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A02.d
Injection Date: 26-Feb-2021 12:54:39 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

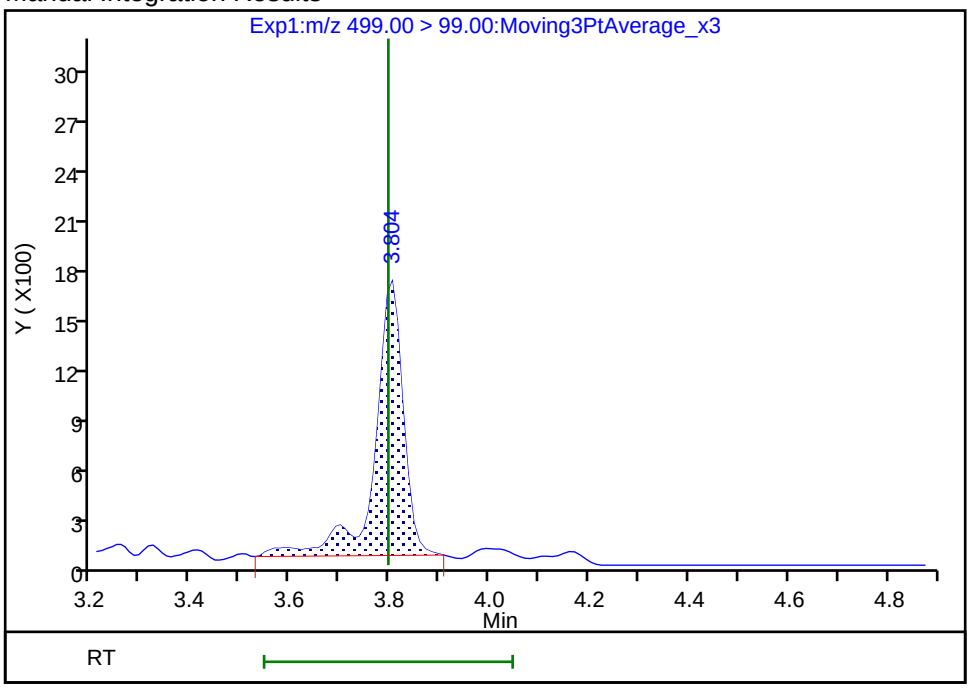
Processing Integration Results

RT: 3.80
Area: 9264
Amount: 0.059525
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 6598
Amount: 0.051023
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:25:38
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

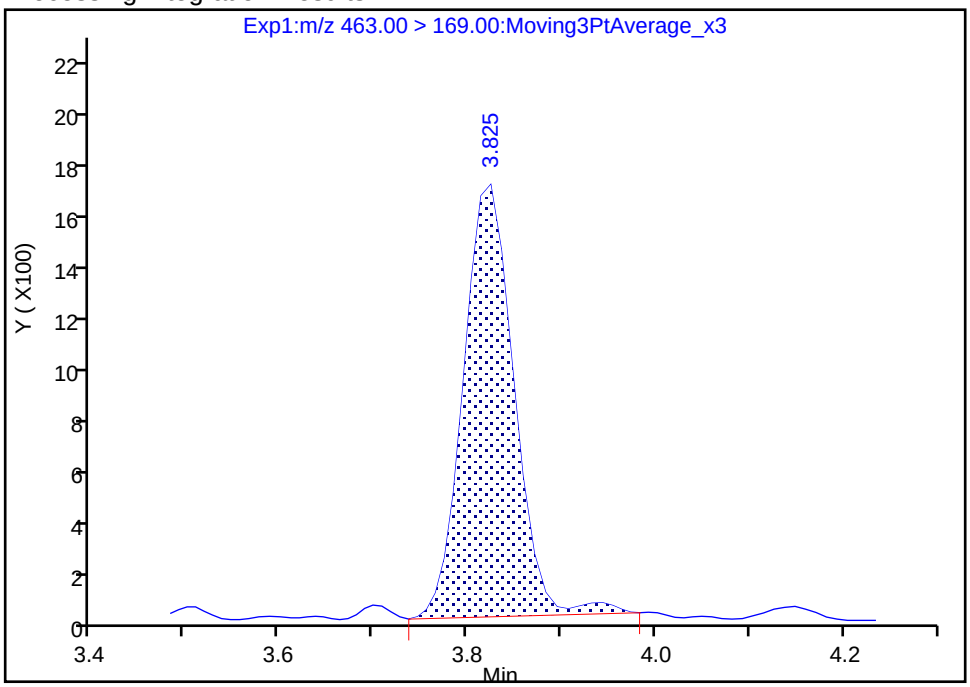
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A02.d				
Injection Date:	26-Feb-2021 12:54:39	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

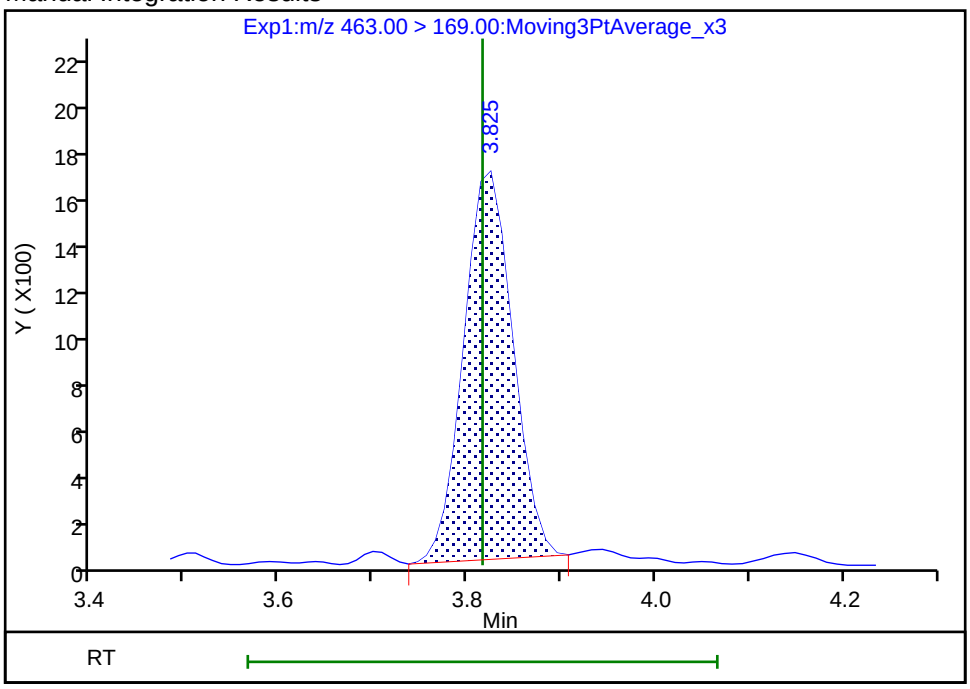
Processing Integration Results

RT: 3.82
Area: 6362
Amount: 0.047446
Amount Units: ng/ml



Manual Integration Results

RT: 3.82
Area: 6125
Amount: 0.047450
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:25:51

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

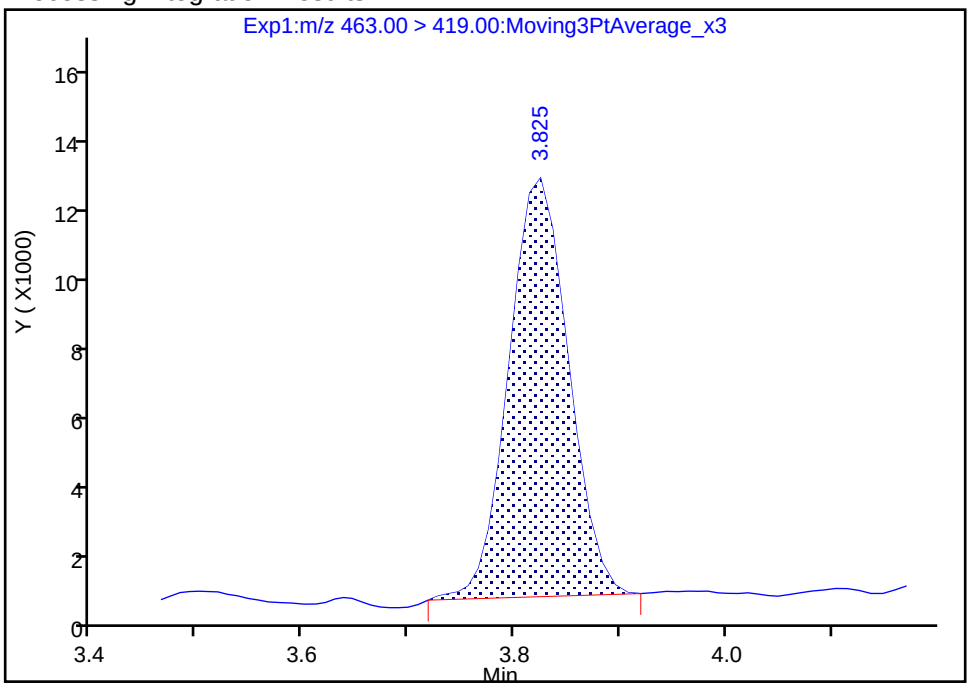
Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A02.d
Injection Date: 26-Feb-2021 12:54:39 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

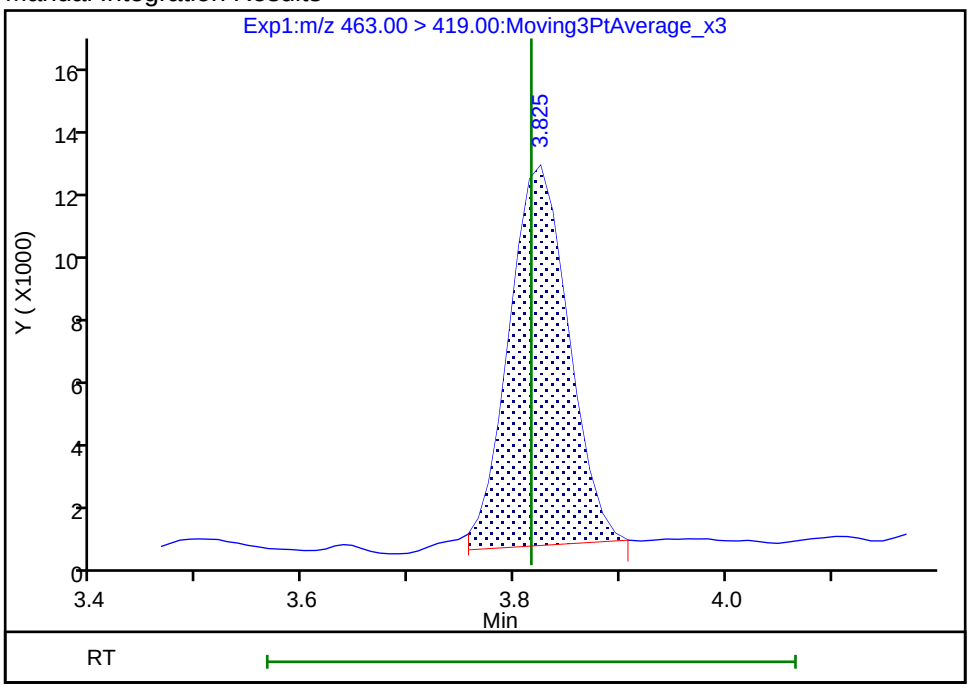
Processing Integration Results

RT: 3.82
Area: 43958
Amount: 0.047446
Amount Units: ng/ml



Manual Integration Results

RT: 3.82
Area: 43962
Amount: 0.047450
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:25:55
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

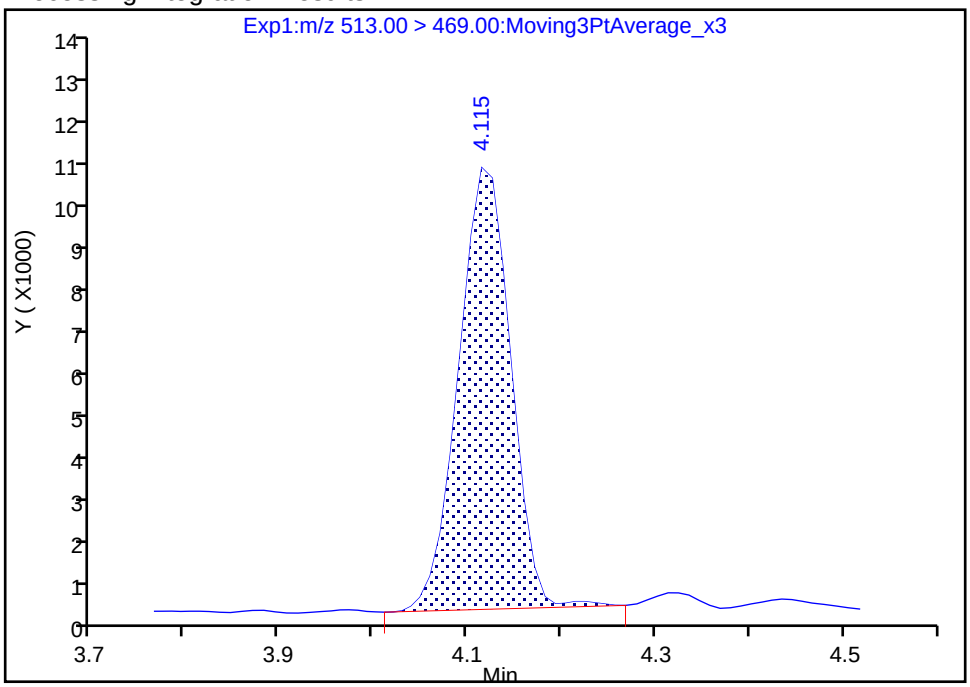
Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A02.d
Injection Date: 26-Feb-2021 12:54:39 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

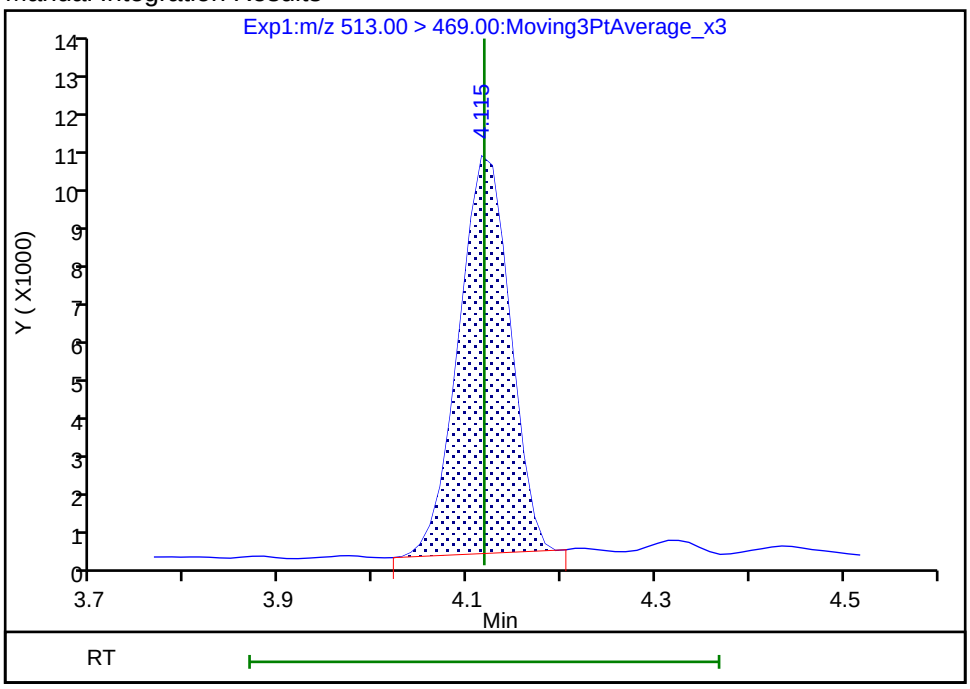
Processing Integration Results

RT: 4.12
Area: 39191
Amount: 0.047781
Amount Units: ng/ml



Manual Integration Results

RT: 4.12
Area: 38458
Amount: 0.046887
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:26:04
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

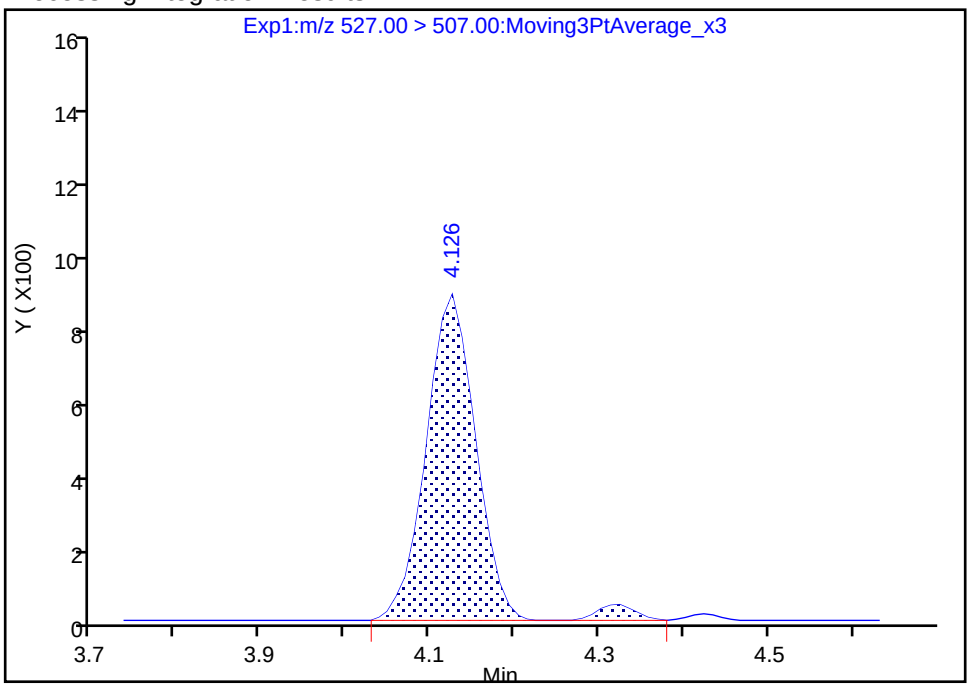
Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A02.d
Injection Date: 26-Feb-2021 12:54:39 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

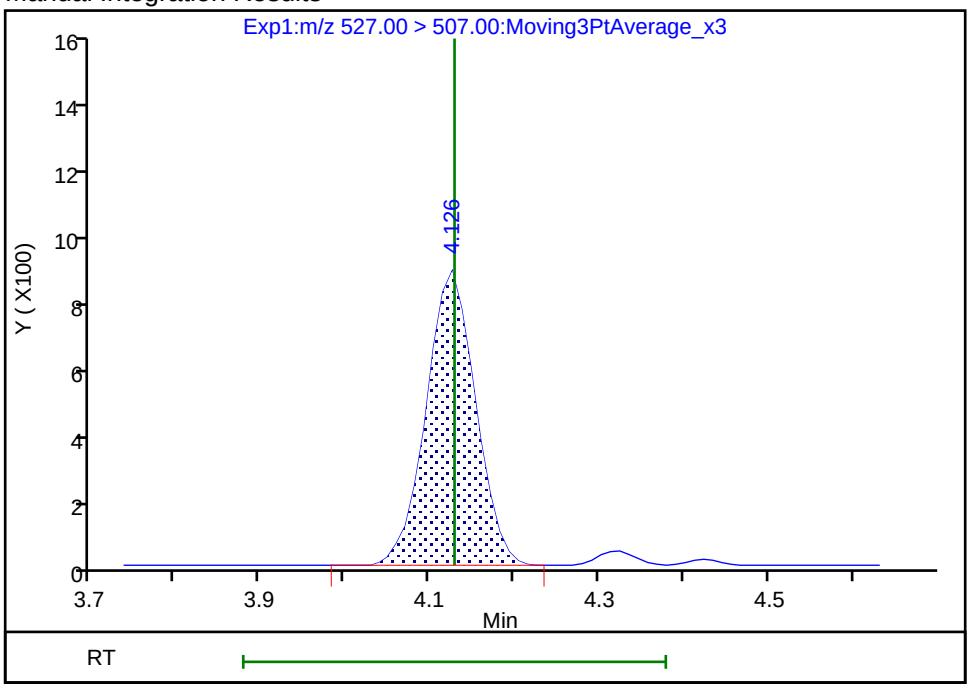
Processing Integration Results

RT: 4.13
Area: 3715
Amount: 0.042291
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 3583
Amount: 0.040789
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:26:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

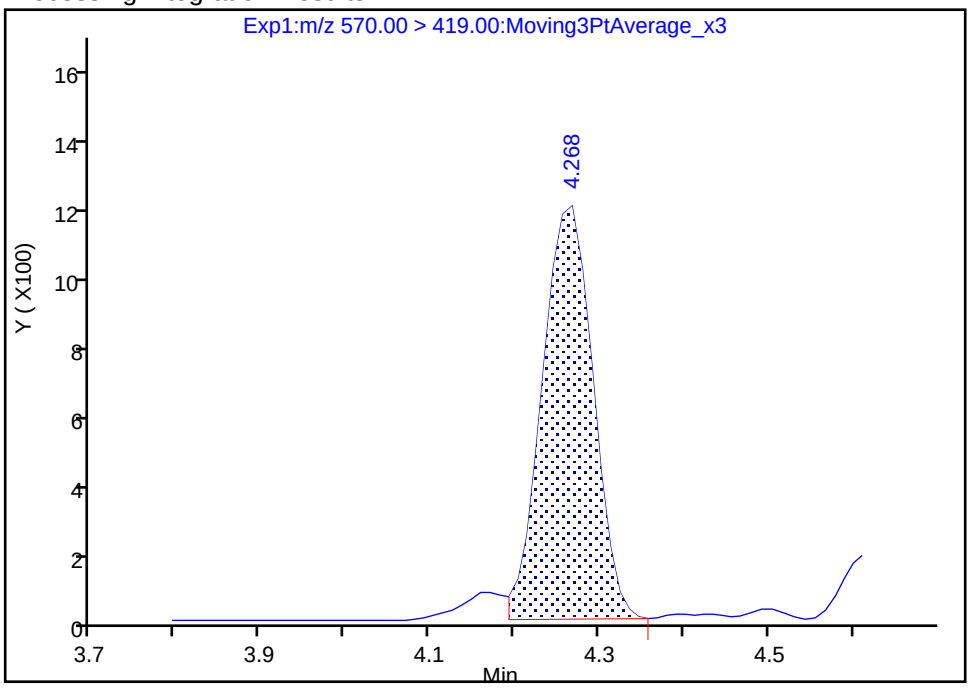
Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A02.d
Injection Date: 26-Feb-2021 12:54:39 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

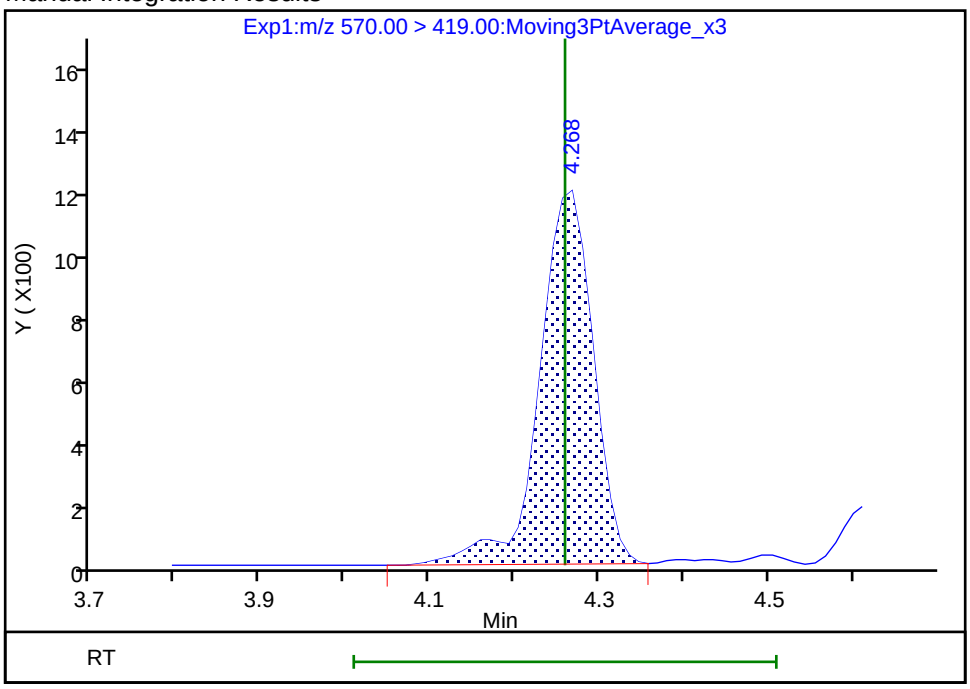
Processing Integration Results

RT: 4.27
Area: 4756
Amount: 0.102930
Amount Units: ng/ml



Manual Integration Results

RT: 4.27
Area: 5032
Amount: 0.108904
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:26:24
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

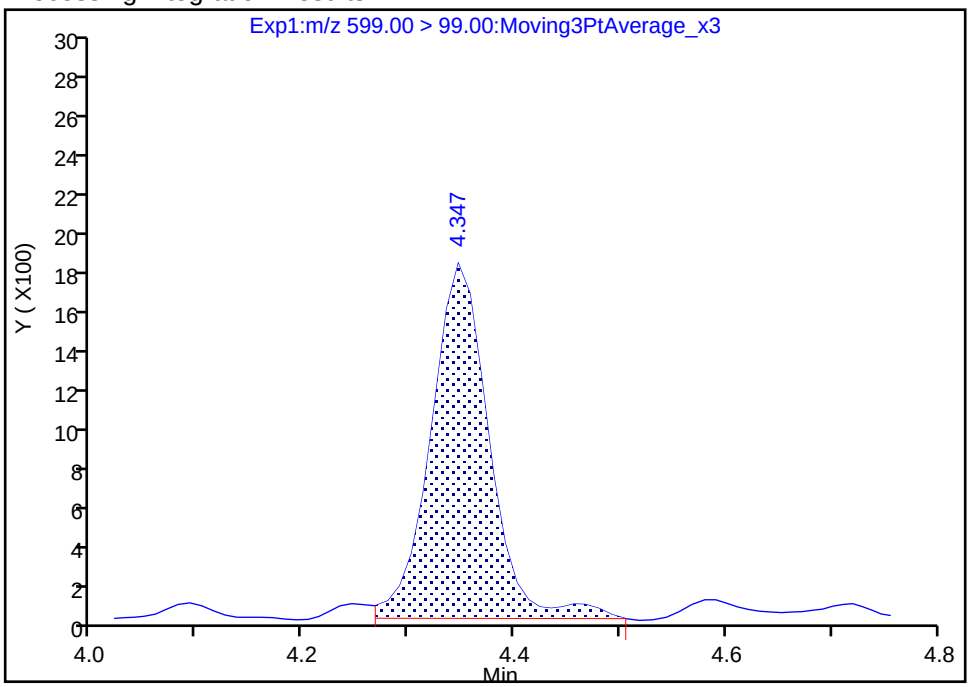
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A02.d				
Injection Date:	26-Feb-2021 12:54:39	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

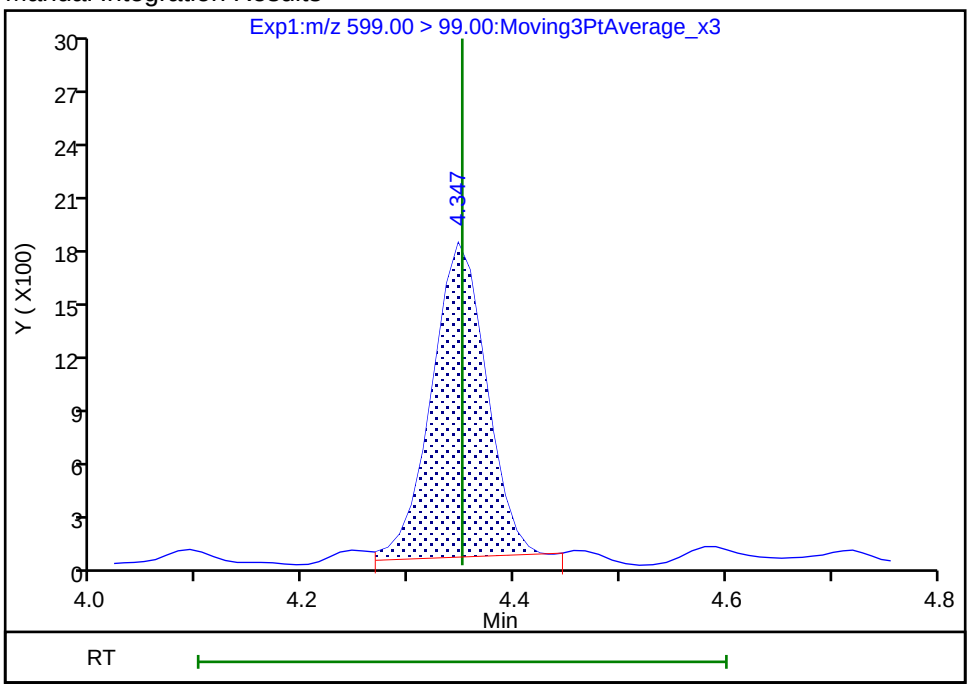
Processing Integration Results

RT: 4.35
Area: 6989
Amount: 0.050959
Amount Units: ng/ml



Manual Integration Results

RT: 4.35
Area: 6408
Amount: 0.050959
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:26:36

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

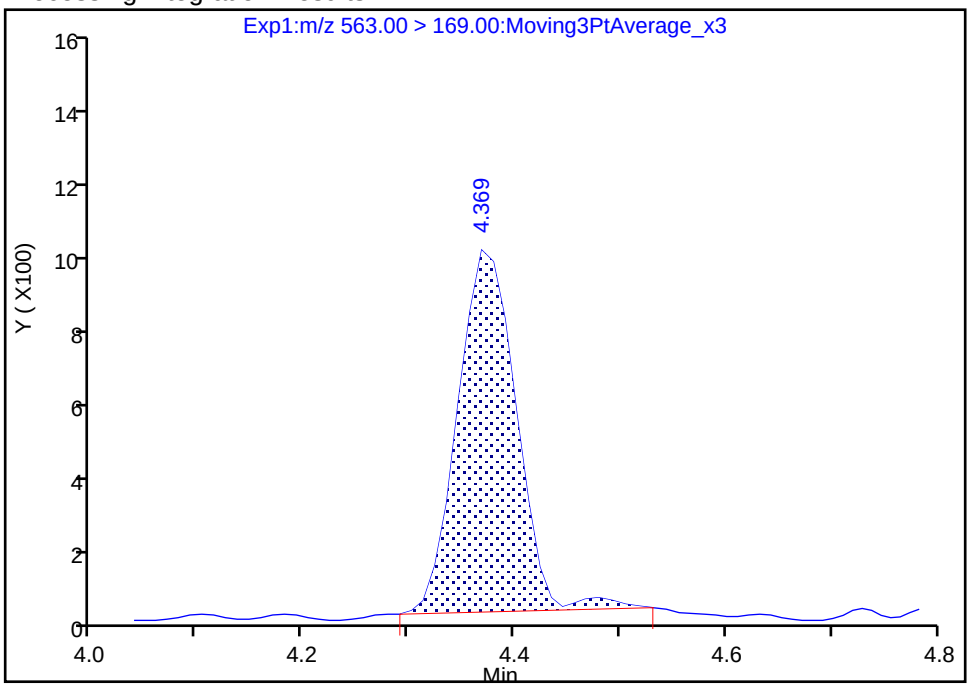
Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A02.d
Injection Date: 26-Feb-2021 12:54:39 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

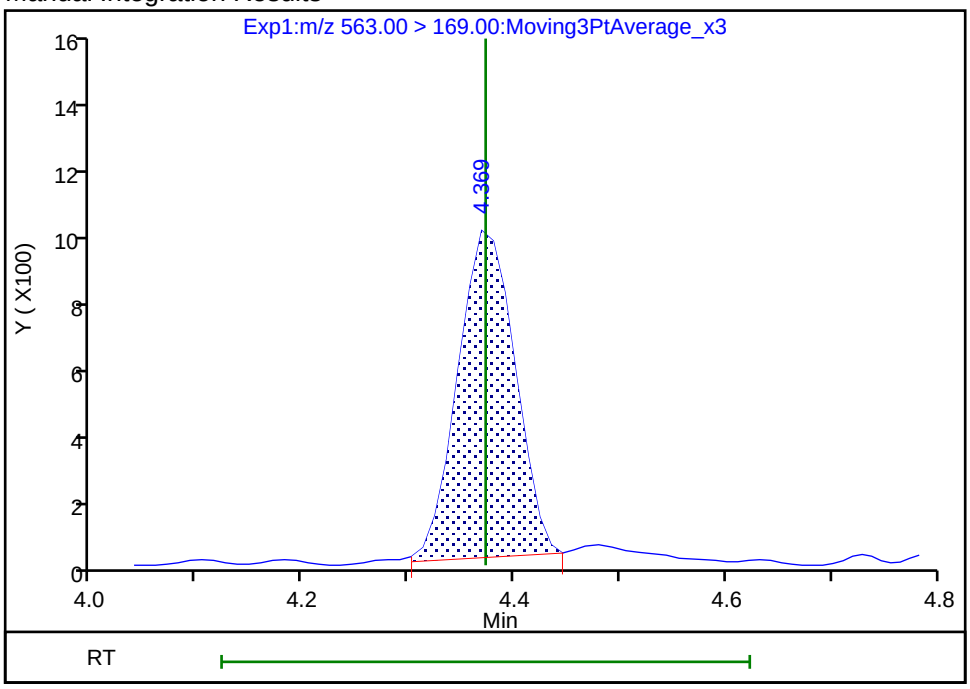
Processing Integration Results

RT: 4.37
Area: 3626
Amount: 0.047416
Amount Units: ng/ml



Manual Integration Results

RT: 4.37
Area: 3534
Amount: 0.047416
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:26:48
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

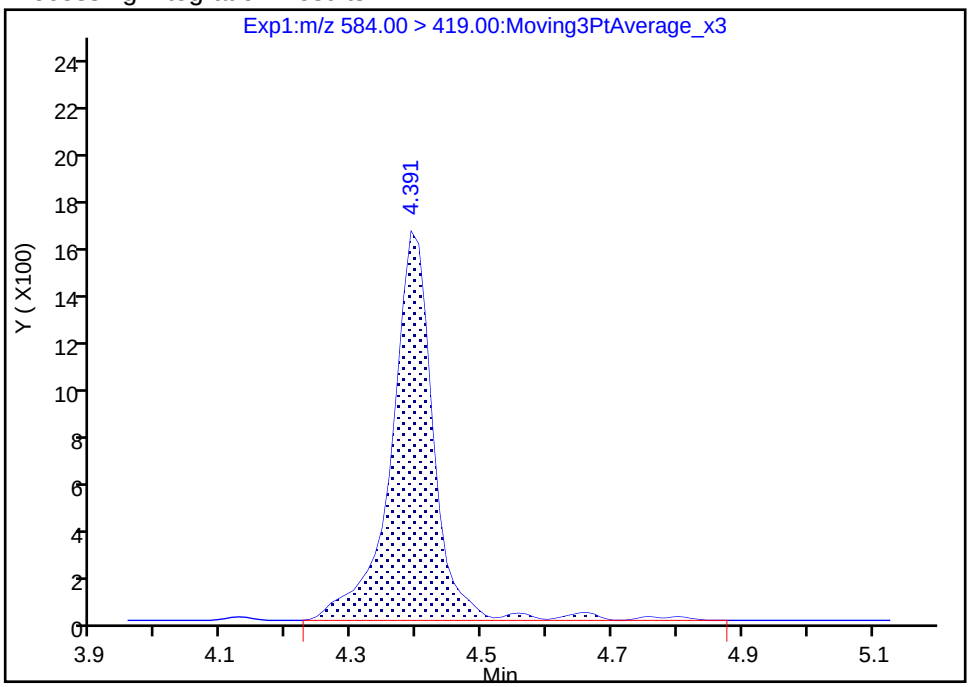
Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A02.d
Injection Date: 26-Feb-2021 12:54:39 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

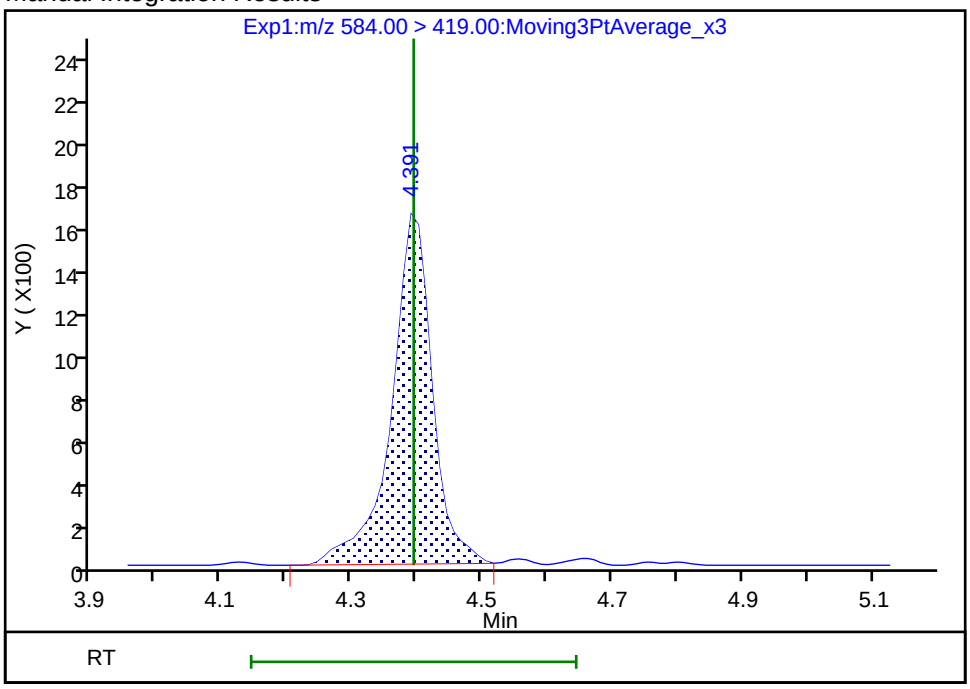
Processing Integration Results

RT: 4.39
Area: 7552
Amount: 0.162679
Amount Units: ng/ml



Manual Integration Results

RT: 4.39
Area: 7207
Amount: 0.155247
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:27:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

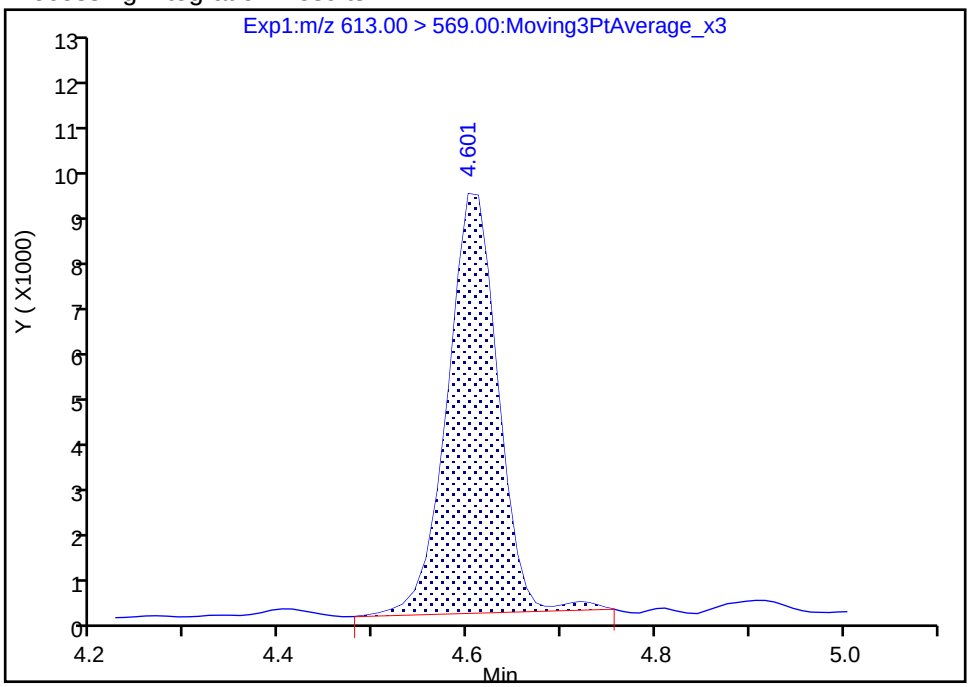
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A02.d				
Injection Date:	26-Feb-2021 12:54:39	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

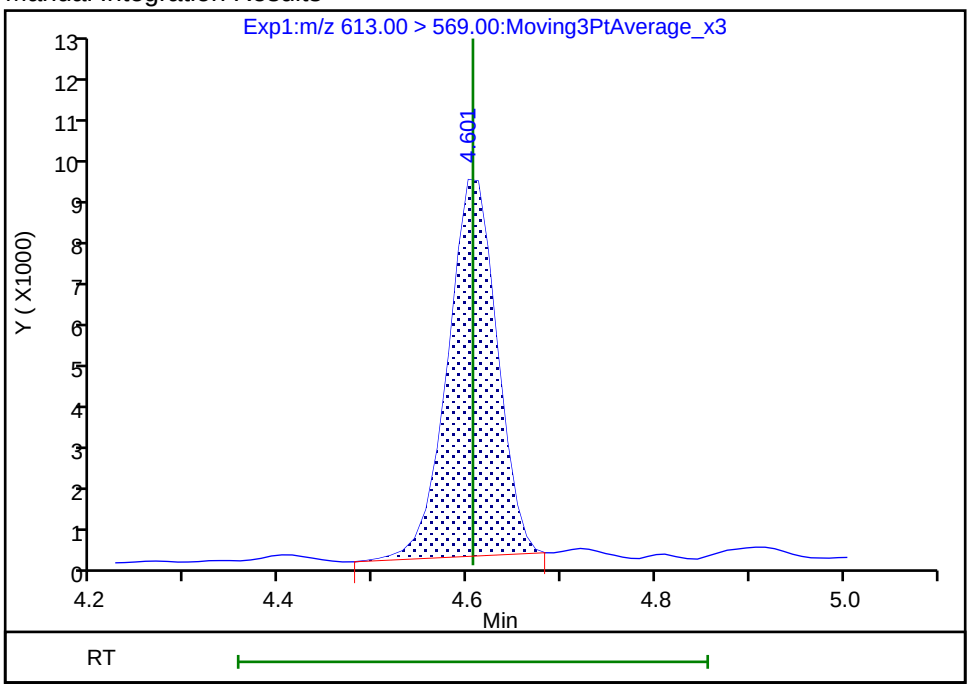
Processing Integration Results

RT: 4.60
Area: 34661
Amount: 0.049279
Amount Units: ng/ml



Manual Integration Results

RT: 4.60
Area: 33498
Amount: 0.047625
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:27:13

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

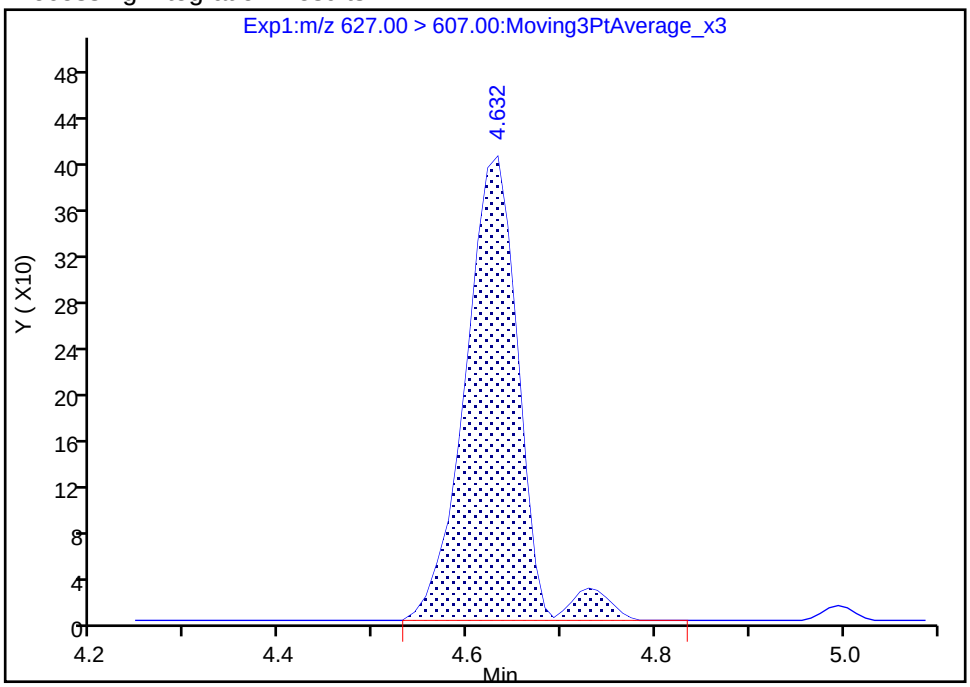
Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A02.d
Injection Date: 26-Feb-2021 12:54:39 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

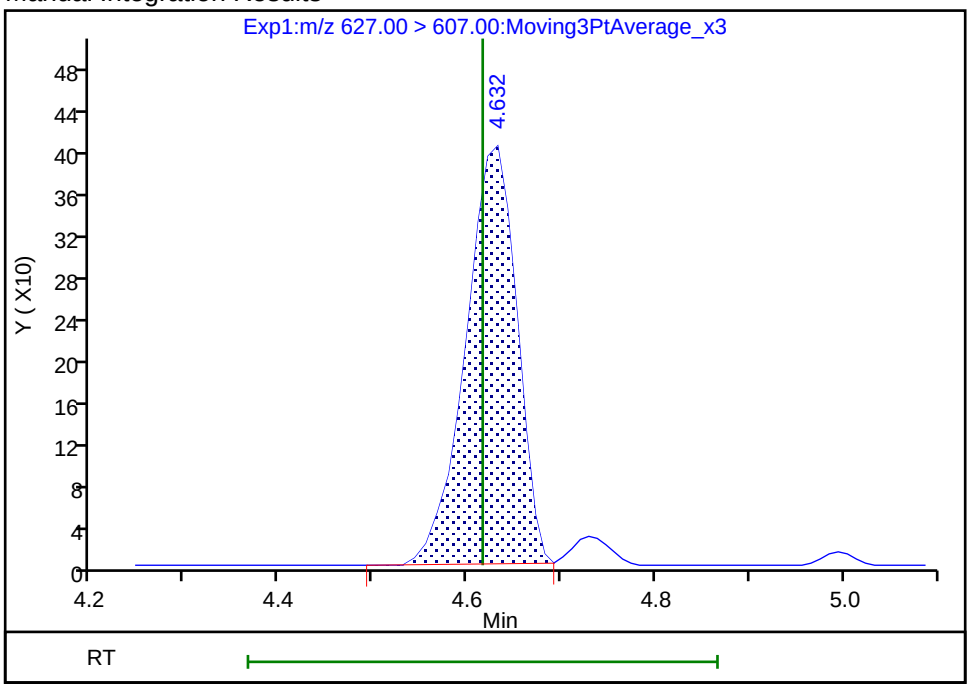
Processing Integration Results

RT: 4.63
Area: 1619
Amount: 0.035800
Amount Units: ng/ml



Manual Integration Results

RT: 4.63
Area: 1528
Amount: 0.033787
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:27:20
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

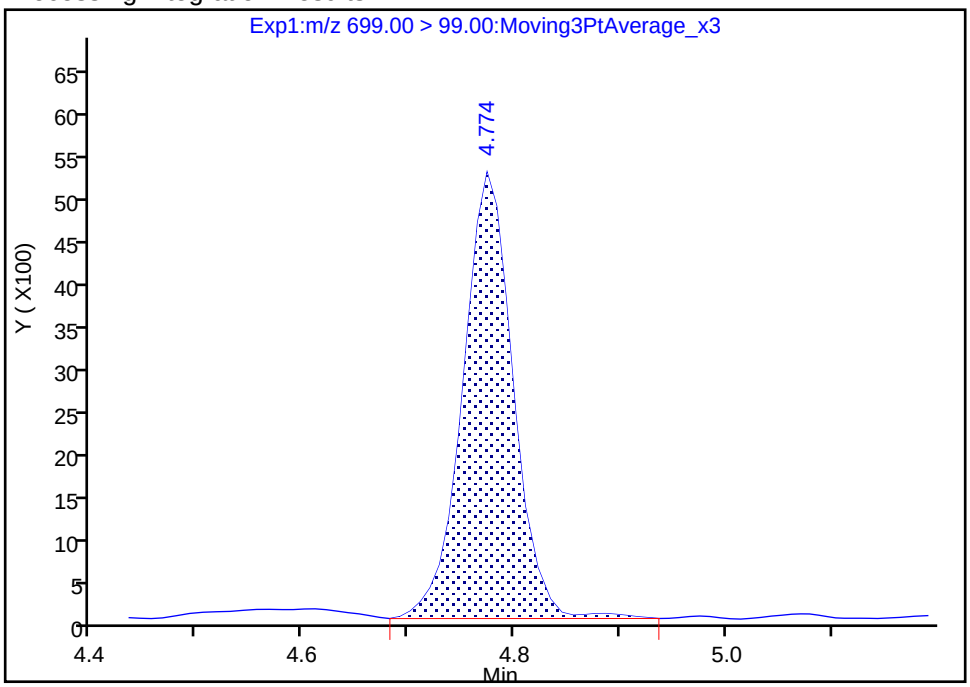
Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A02.d
Injection Date: 26-Feb-2021 12:54:39 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

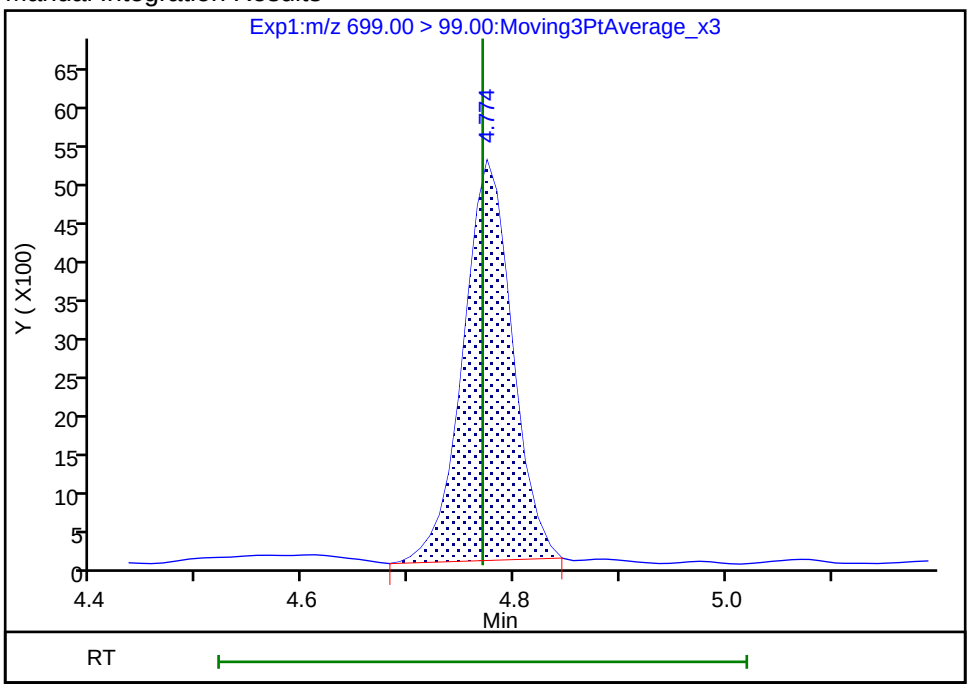
Processing Integration Results

RT: 4.77
Area: 17225
Amount: 0.057708
Amount Units: ng/ml



Manual Integration Results

RT: 4.77
Area: 16666
Amount: 0.057708
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:29:03
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

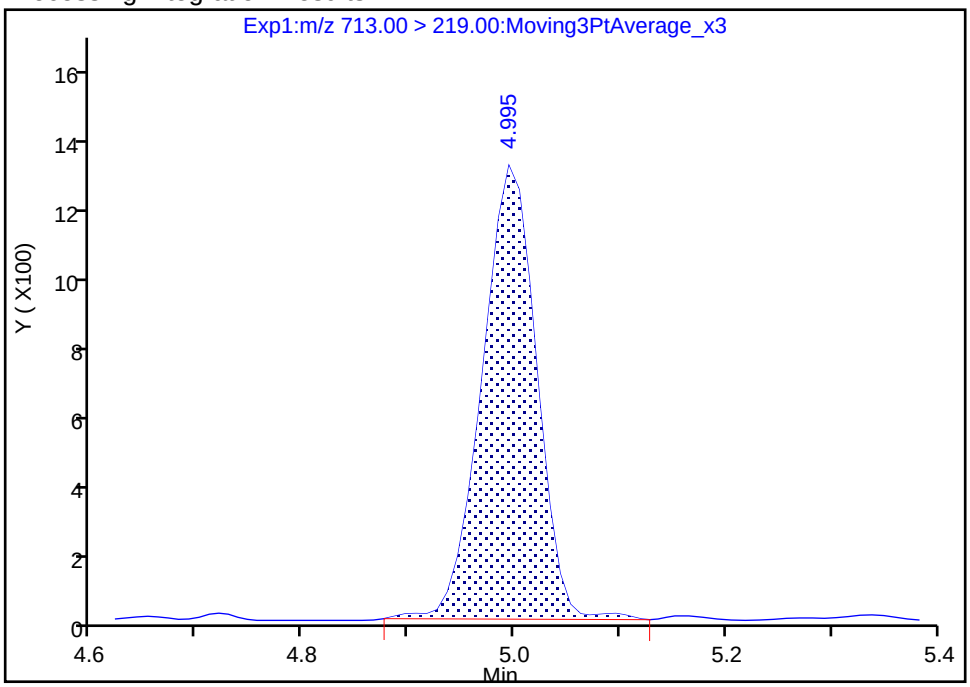
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A02.d				
Injection Date:	26-Feb-2021 12:54:39	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

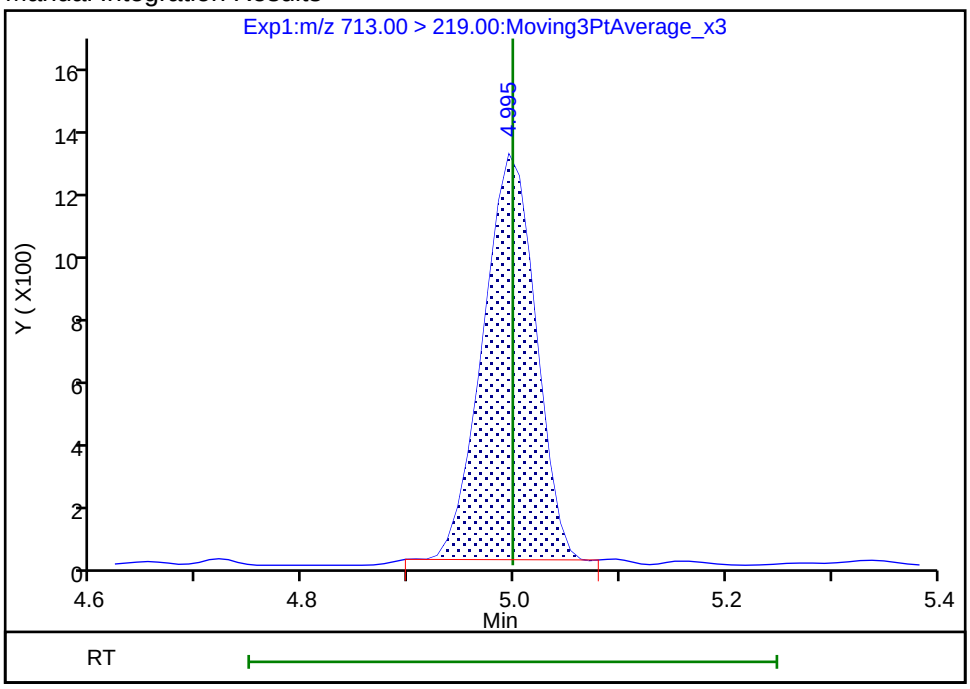
Processing Integration Results

RT: 4.99
Area: 4734
Amount: 0.050454
Amount Units: ng/ml



Manual Integration Results

RT: 4.99
Area: 4536
Amount: 0.050454
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:29:40

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCVIS 200-164334/3 Calibration Date: 02/26/2021 13:02

Instrument ID: LC812 Calib Start Date: 12/22/2020 12:48

GC Column: C-18 ID: 4.60(mm) Calib End Date: 12/22/2020 13:29

Lab File ID: PA210226A03.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.002	0.9690		0.967	1.00	-3.3	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.107	1.124		1.02	1.00	1.6	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.131	1.143		0.893	0.884	1.0	40.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	1.834	1.739		0.886	0.934	-5.2	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.092	1.104		1.01	1.00	1.0	40.0
Perfluoropentanesulfonic acid	AveID	1.312	1.380		0.987	0.938	5.2	50.0
HFPO-DA	AveID	1.385	2.079		1.50	1.00	50.1*	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.178	1.208		0.933	0.910	2.5	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.092	1.075		0.984	1.00	-1.6	40.0
DONA	AveID	3.349	3.188		0.897	0.942	-4.8	50.0
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	AveID	1.112	1.041		0.888	0.948	-6.4	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.350	1.388		0.979	0.952	2.8	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.084	1.081		0.997	1.00	-0.3	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.150	1.118		0.902	0.928	-2.8	40.0
Perfluorononanoic acid (PFNA)	AveID	1.107	1.153		1.04	1.00	4.2	40.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	1.283	1.170		0.850	0.932	-8.8	50.0
Perfluorononanesulfonic acid	AveID	0.8581	0.8839		0.989	0.960	3.0	50.0
Perfluorodecanoic acid (PFDA)	AveID	1.031	1.014		0.984	1.00	-1.6	40.0
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	AveID	0.6801	0.5535		0.780	0.958	-18.6	40.0
Perfluorooctanesulfonamide (FOSA)	AveID	1.002	1.103		1.10	1.00	10.1	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.8864	0.9093		1.03	1.00	2.6	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6841	0.7248		1.02	0.964	6.0	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	1.020	1.106		1.08	1.00	8.4	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9257	0.9706		1.05	1.00	4.9	40.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	1.331	1.050		0.743	0.942	-21.1	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.100	0.9745		0.886	1.00	-11.4	40.0
10:2 FTS	AveID	0.3501	0.2932		0.807	0.964	-16.3	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2517	0.2602		1.00	0.968	3.4	50.0
Perfluorotridecanoic acid (PFTriA)	AveID	0.8926	0.8676		0.972	1.00	-2.8	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1855	0.2120		1.14	1.00	14.3	40.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCVIS 200-164334/3 Calibration Date: 02/26/2021 13:02

Instrument ID: LC812 Calib Start Date: 12/22/2020 12:48

GC Column: C-18 ID: 4.60(mm) Calib End Date: 12/22/2020 13:29

Lab File ID: PA210226A03.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-hexadecanoic acid (PFHxDA)	L1ID		1.013		1.07	1.00	7.3	40.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8998	0.8775		0.975	1.00	-2.5	50.0
13C4 PFBA	Ave	1.343	1.313		1.22	1.25	-2.2	50.0
13C5 PFPeA	Ave	0.9710	0.9369		1.21	1.25	-3.5	50.0
13C3 PFBS	Ave	1.278	1.240		1.13	1.16	-2.9	50.0
M2-4:2 FTS	Ave	0.1066	0.1071		1.17	1.17	0.4	50.0
13C2 PFHxA	Ave	1.018	1.015		1.25	1.25	-0.3	50.0
13C3 HFPO-DA	Ave	0.1792	0.0931		0.649	1.25	-48.1	50.0
18O2 PFHxS	Ave	0.9511	0.9365		1.16	1.18	-1.5	50.0
13C4 PFHpA	Ave	0.9742	0.9620		1.23	1.25	-1.3	50.0
M2-6:2 FTS	Ave	0.1187	0.1160		1.16	1.19	-2.2	50.0
13C4 PFOA	Ave	0.9896	0.9523		1.20	1.25	-3.8	50.0
13C4 PFOS	Ave	0.6528	0.6599		1.21	1.20	1.1	50.0
13C5 PFNA	Ave	0.8730	0.8289		1.19	1.25	-5.1	50.0
13C2 PFDA	Ave	0.8346	0.7284		1.09	1.25	-12.7	50.0
M2-8:2 FTS	Ave	0.1225	0.1208		1.18	1.20	-1.3	50.0
13C8 FOSA	Ave	1.227	1.170		1.19	1.25	-4.7	50.0
d3-NMeFOSAA	Ave	0.0605	0.0525		1.08	1.25	-13.3	50.0
13C2 PFUnA	Ave	0.6856	0.5781		1.05	1.25	-15.7	50.0
d5-NEtFOSAA	Ave	0.0585	0.0503		1.07	1.25	-14.1	50.0
13C2 PFDoA	Ave	0.7238	0.6669		1.15	1.25	-7.9	50.0
13C2 PFTeDA	Ave	0.5353	0.4425		1.03	1.25	-17.3	50.0
13C2 PFHxDA	Ave	0.5718	0.4389		0.959	1.25	-23.3	50.0

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A03.d
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 26-Feb-2021 13:02:56 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 200-0044972-003 Plate: 1 Rack: 2
Operator ID: lc812tech Instrument ID: LC812
Sublist: chrom-PFC_LC812*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 26-Feb-2021 16:14:31 Calib Date: 22-Dec-2020 13:29:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1601

First Level Reviewer: deannd Date: 26-Feb-2021 13:42:20
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.082	2.082	0.0	0.598	1298295	1.22		97.8	11120	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.082	2.082	0.0	1.000	1006400	0.9670		96.7	332	
D 3 13C5 PFPeA										
267.90 > 223.00	2.401	2.401	0.0	0.689	926091	1.21		96.5	3198	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.401	2.401	0.0	1.000	833093	1.02		102	59.1	
D 47 13C3 PFBS										
301.90 > 80.00	2.427	2.427	0.0	0.697	1140305	1.13		97.1	204643	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.427	2.427	0.0	1.000	990723	0.8928	Target=2.21	101	2301	
298.90 > 99.00	2.427	2.427	0.0	1.000	447191		2.22(1.11-3.32)		380	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.723	2.723	0.0	0.781	98843	1.17		100	150	M
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.723	2.723	0.0	1.000	137473	0.8855		94.8	1572	
D 7 13C2 PFHxA										
315.00 > 270.00	2.759	2.759	0.0	0.792	1003186	1.25		99.7	2795	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.759	2.759	0.0	1.000	885903	1.01	Target=12.83	101	272	
313.00 > 119.00	2.759	2.759	0.0	1.000	68225		12.99(6.42-19.25)		101	M
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.771	2.771	0.0	0.888	958873	0.9866	Target=3.35	105	2304	
349.00 > 99.00	2.771	2.771	0.0	0.888	273797		3.50(1.67-5.02)		477	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.869	2.869	0.0	0.823	91987	0.6492		51.9	723	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										
329.10 > 285.00	2.869	2.869	0.0	1.000	153001	1.50		150	44.5	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.123	3.123	0.0	1.000	814377	0.9331	Target=4.15	103	1542	
399.00 > 99.00	3.123	3.123	0.0	1.000	185194		4.40(2.08-6.23)		189	
D 11 18O2 PFHxS										
403.00 > 84.00	3.123	3.123	0.0	0.896	875745	1.16		98.5	2942	
D 9 13C4 PFHpA										
367.00 > 322.00	3.133	3.133	0.0	0.899	950945	1.23		98.7	2473	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.133	3.133	0.0	1.000	817938	0.9844	Target=3.66	98.4	288	
363.00 > 169.00	3.133	3.133	0.0	1.000	229578		3.56(1.83-5.49)		817	
77 DONA										
377.00 > 251.00	3.165	3.165	0.0	0.834	1567283	0.8969	Target=2.43	95.2	1696	
377.00 > 85.00	3.165	3.165	0.0	0.834	630319		2.49(1.22-3.65)		863	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.475	3.475	0.0	0.915	689651	0.9788	Target=5.95	103	2772	
449.00 > 99.00	3.475	3.475	0.0	0.915	111627		6.18(2.98-8.93)		407	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.475	3.475	0.0	0.997	108975	1.16		97.8	500	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.475	3.475	0.0	1.000	90598	0.8875		93.6	899	
D 14 13C4 PFOA										
417.00 > 372.00	3.484	3.484	0.0	1.000	941332	1.20		96.2	2364	
* 62 13C2 PFOA										
415.00 > 370.00	3.484	3.484	0.0		988513	1.25			1353	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.493	3.493	0.0	1.003	813918	1.00	Target=2.58	99.7	214	
413.00 > 169.00	3.484	3.493	-0.009	1.000	326424		2.49(1.29-3.87)		741	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.796	3.796	0.0	1.000	541532	0.9023	Target=5.65	97.2	829	M
499.00 > 99.00	3.796	3.796	0.0	1.000	102558		5.28(2.82-8.47)		375	M
D 18 13C4 PFOS										
503.00 > 80.00	3.796	3.796	0.0	1.090	623622	1.21		101	2447	
D 19 13C5 PFNA										
468.00 > 423.00	3.816	3.816	0.0	1.095	819394	1.19		94.9	5093	
20 Perfluorononanoic acid										
463.00 > 419.00	3.816	3.816	0.0	1.000	755904	1.04	Target=7.44	104	134	
463.00 > 169.00	3.816	3.816	0.0	1.000	112585		6.71(3.72-11.16)		924	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.957	3.957	0.0	1.043	568958	0.8496		91.2	2237	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.084	4.084	0.0	1.076	442809	0.9889	Target=2.54	103	1413	
549.00 > 99.00	4.084	4.084	0.0	1.076	153046		2.89(1.27-3.81)		600	
D 23 13C2 PFDA										
515.00 > 470.00	4.118	4.118	0.0	1.182	719993	1.09		87.3	4924	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.118	4.118	0.0	1.000	584110	0.9841	Target=9.29	98.4	403	
513.00 > 169.00	4.118	4.118	0.0	1.000	75118		7.78(4.64-13.93)		436	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.129	4.129	0.0	1.185	114431	1.18		98.7	589	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.129	4.129	0.0	1.000	50674	0.7797		81.4	1022	
D 21 13C8 FOSA										
506.00 > 78.00	4.207	4.207	0.0	1.208	1156140	1.19		95.3	2218	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.217	4.217	0.0	1.002	1020530	1.10		110	1552	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.260	4.260	0.0	1.223	51868	1.08		86.7	161	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.260	4.260	0.0	1.000	37732	1.03		103	399	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.350	4.350	0.0	1.146	364625	1.02	Target=2.80	106	1555	
599.00 > 99.00	4.350	4.350	0.0	1.146	129152		2.82(1.40-4.19)		601	
D 30 13C2 PFUnA										
565.00 > 520.00	4.373	4.373	0.0	1.255	571461	1.05		84.3	3055	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.373	4.373	0.0	1.000	505538	1.08	Target=8.12	108	314	
563.00 > 169.00	4.373	4.373	0.0	1.000	61203		8.26(4.06-12.18)		763	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.384	4.384	0.0	1.258	49684	1.07		85.9	424	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.395	4.395	0.0	1.003	38580	1.05		105	448	M
66 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.473	4.473	0.0	1.178	516388	0.7432		78.9	2565	
D 36 13C2 PFDoA										
615.00 > 570.00	4.606	4.606	0.0	1.322	659227	1.15		92.1	2702	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.606	4.606	0.0	1.000	513928	0.8860	Target=6.91	88.6	172	
613.00 > 169.00	4.606	4.606	0.0	1.000	86031		5.97(3.45-10.36)		1168	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.616	4.616	0.0	1.118	27011	0.8073		83.7	610	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.770	4.770	0.0	1.257	131451	1.00	Target=0.51	103	1389	
699.00 > 99.00	4.770	4.770	0.0	1.257	256650		0.51(0.26-0.77)		1073	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.806	4.806	0.0	1.043	457551	0.9720	Target=4.39	97.2	270	
663.00 > 169.00	4.806	4.806	0.0	1.043	106657		4.29(2.20-6.59)		1351	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.998	4.998	0.0	1.435	437454	1.03		82.7	2722	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.998	4.998	0.0	1.000	74209	1.14	Target=1.06	114	1240	
713.00 > 219.00	4.989	4.998	-0.009	0.998	75344		0.98(0.53-1.59)		2428	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.329	5.329	0.0	1.530	433829	0.9594		76.7	2377	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.329	5.329	0.0	1.000	351724	1.07	Target=3.84	107	117	
813.00 > 169.00	5.329	5.329	0.0	1.000	99026		3.55(1.92-5.76)		2305	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.649	5.649	0.0	1.060	304561	0.9753	Target=3.92	97.5	342	
913.00 > 169.00	5.640	5.649	-0.009	1.058	86640		3.52(1.96-5.88)		1102	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC4_00015 Amount Added: 100.00 Units: uL

Report Date: 26-Feb-2021 16:14:32 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A03.d

Injection Date: 26-Feb-2021 13:02:56 Instrument ID: LC812

Lims ID: CCVIS

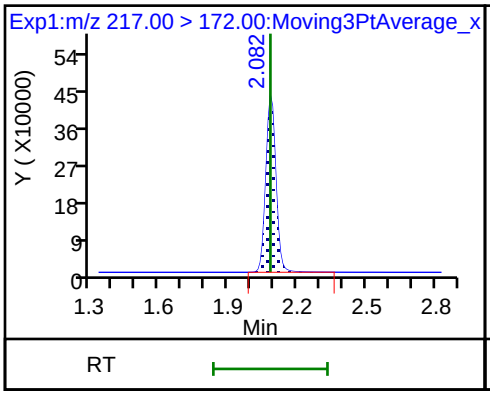
Client ID:

Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3

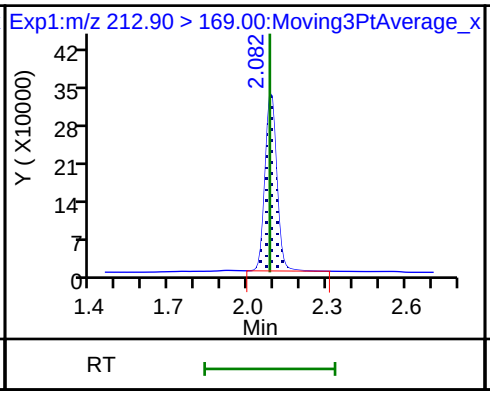
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

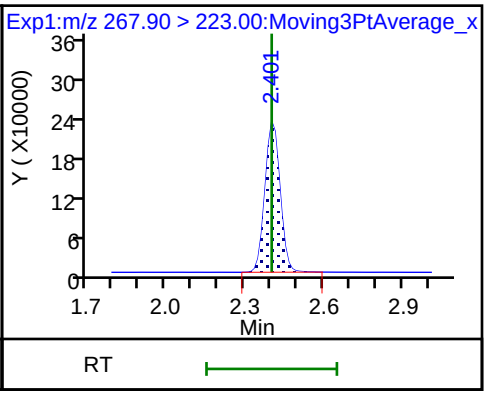
D 1 13C4 PFBA



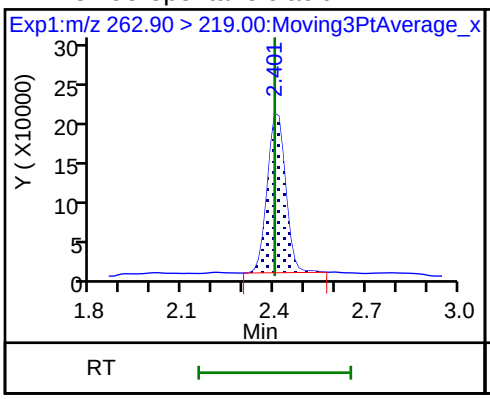
2 Perfluorobutanoic acid



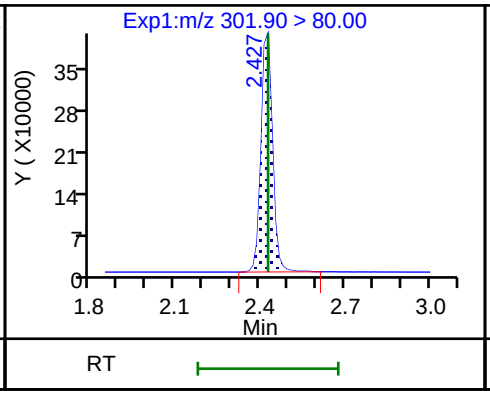
D 3 13C5 PFPeA



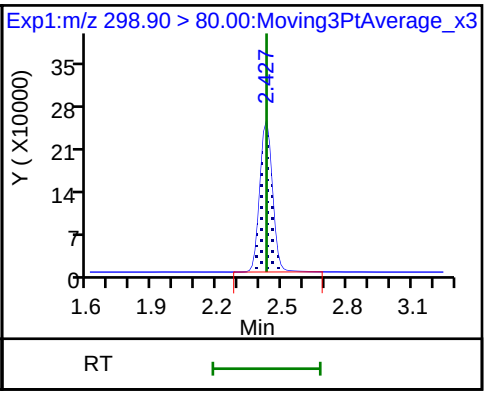
4 Perfluoropentanoic acid



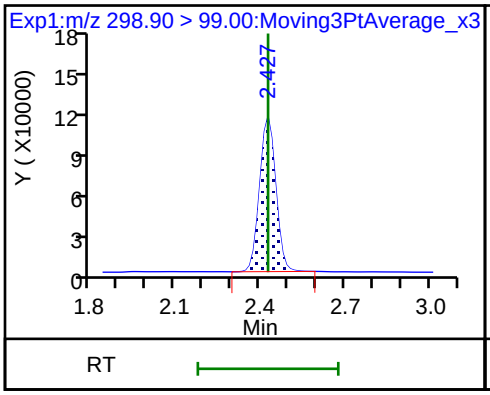
D 47 13C3 PFBS



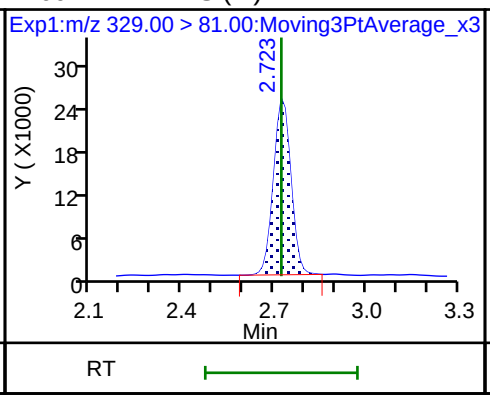
5 Perfluorobutanesulfonic acid



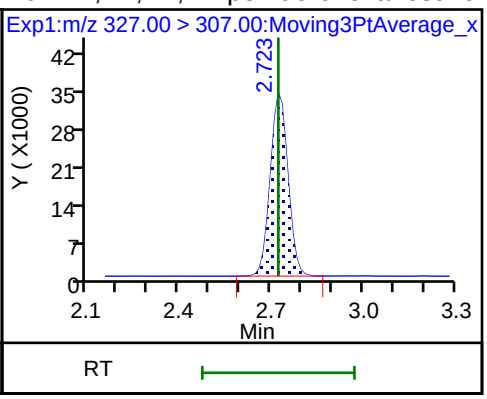
5 Perfluorobutanesulfonic acid



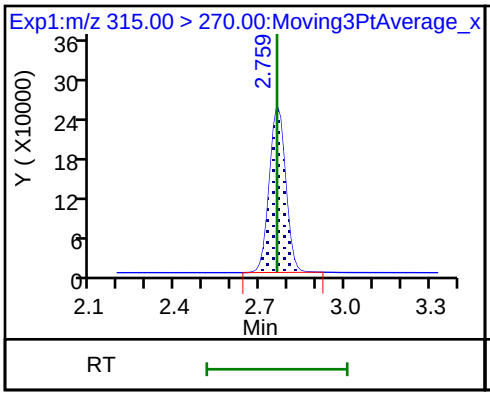
D 60 M2-4:2 FTS (M)



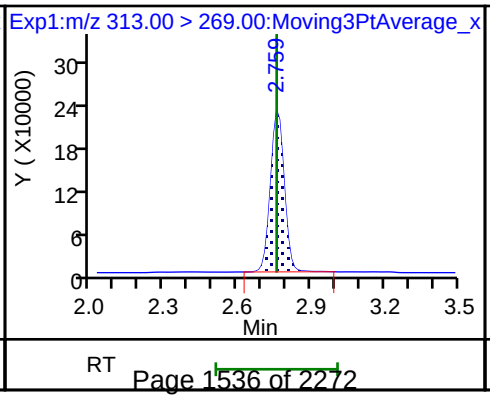
61 1H,1H,2H,2H-perfluorohexanesulfo



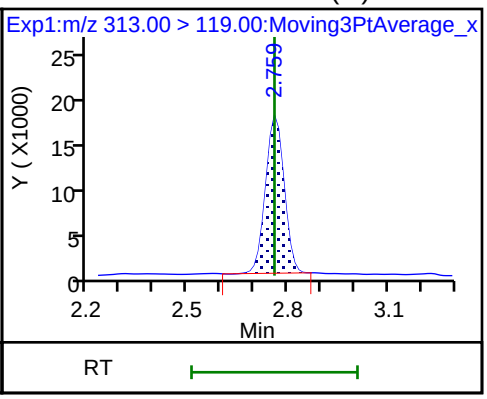
D 7 13C2 PFHxA



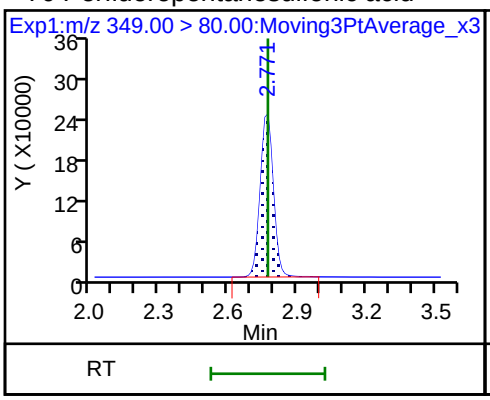
6 Perfluorohexanoic acid



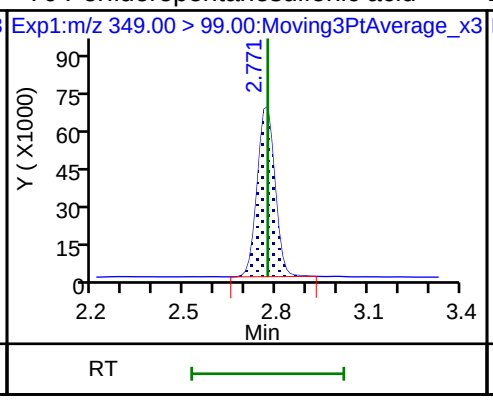
6 Perfluorohexanoic acid (M)



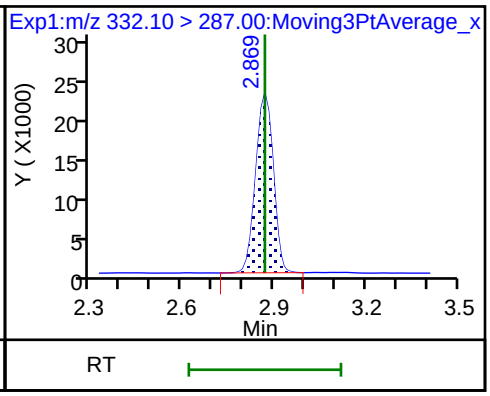
70 Perfluoropentanesulfonic acid



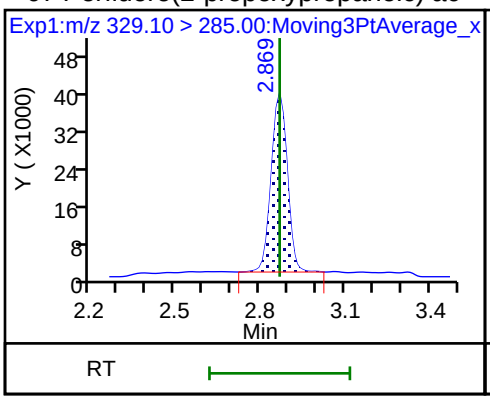
70 Perfluoropentanesulfonic acid



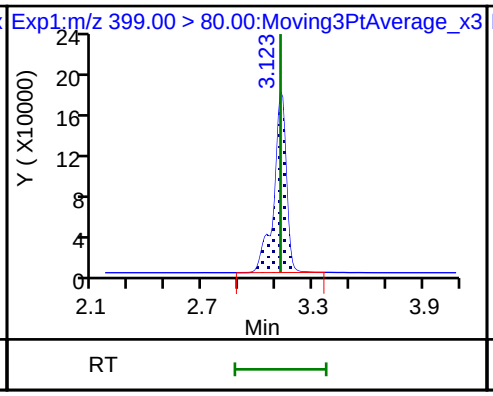
D 64 13C3 HFPO-DA



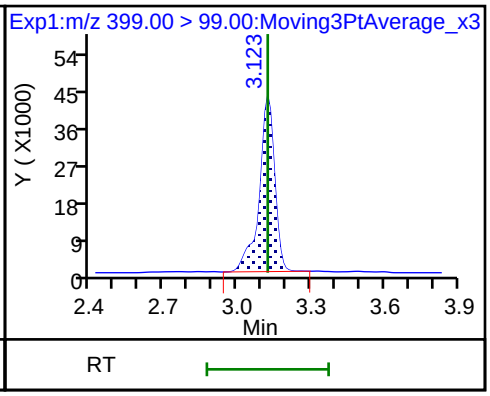
67 Perfluoro(2-propoxypropanoic) ac



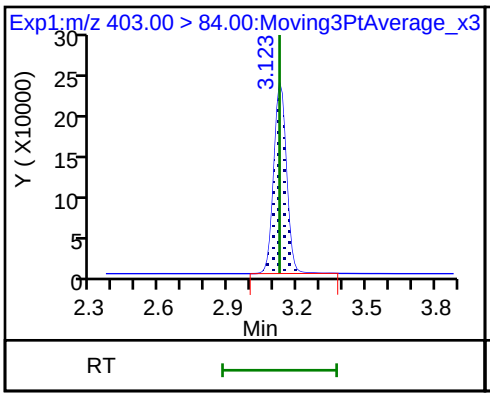
8 Perfluorohexanesulfonic acid



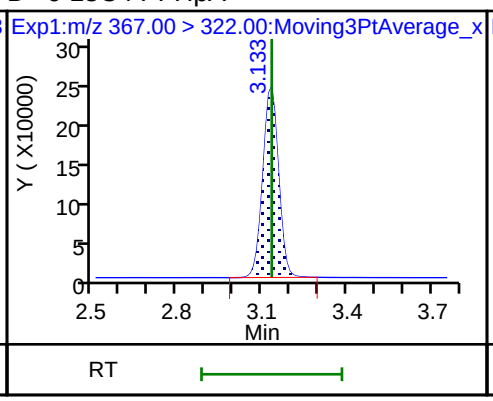
8 Perfluorohexanesulfonic acid



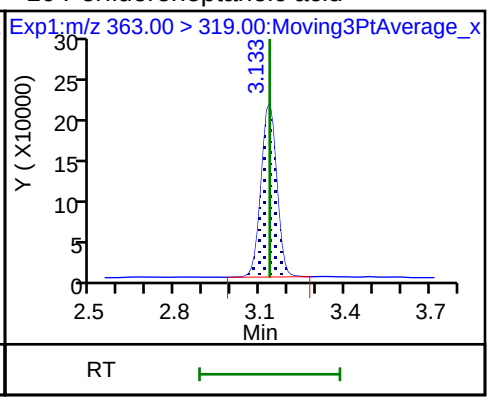
D 11 18O2 PFHxS



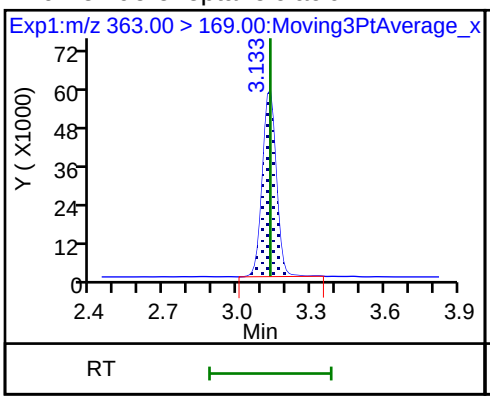
D 9 13C4 PFHpA



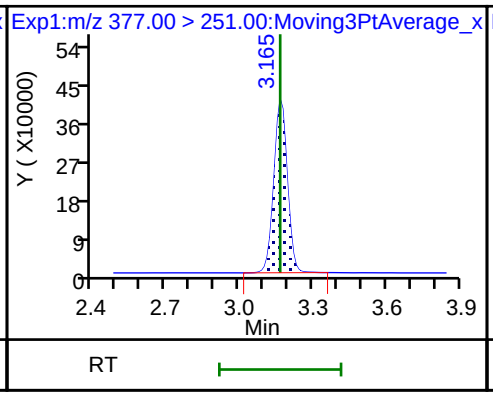
10 Perfluoroheptanoic acid



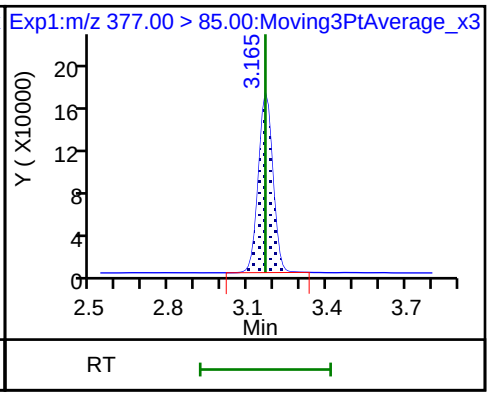
10 Perfluoroheptanoic acid



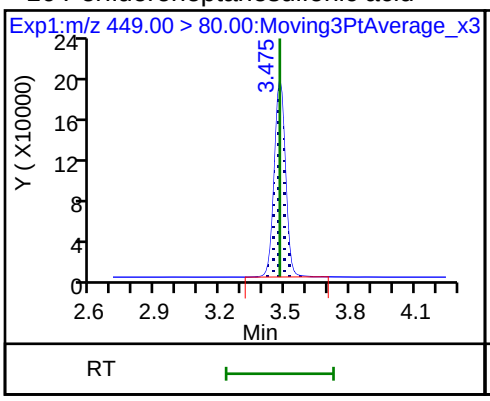
77 DONA



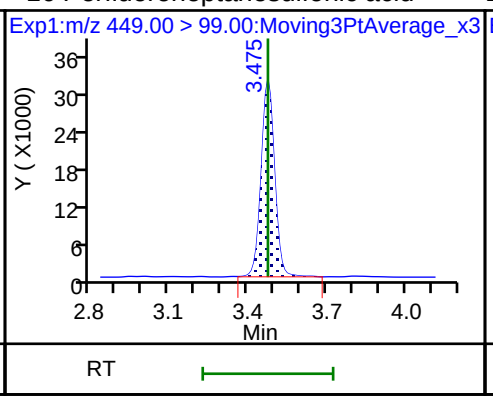
77 DONA



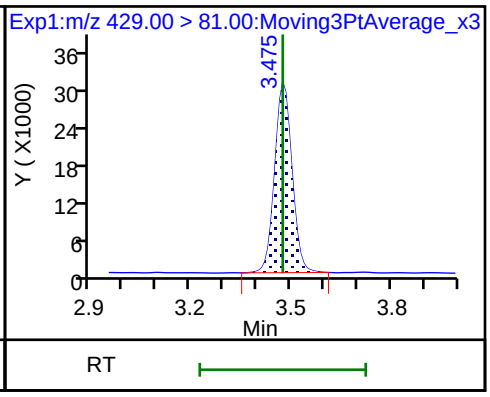
16 Perfluoroheptanesulfonic acid



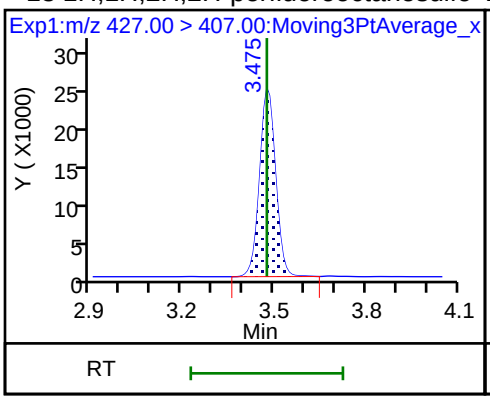
16 Perfluoroheptanesulfonic acid



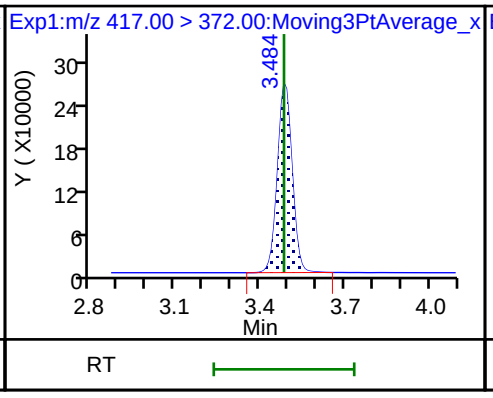
D 12 M2-6:2 FTS



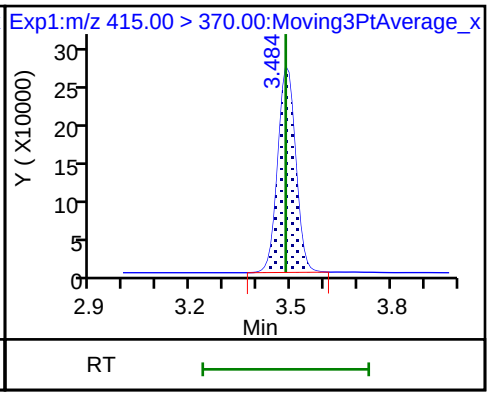
13 1H,1H,2H,2H-perfluorooctanesulfo



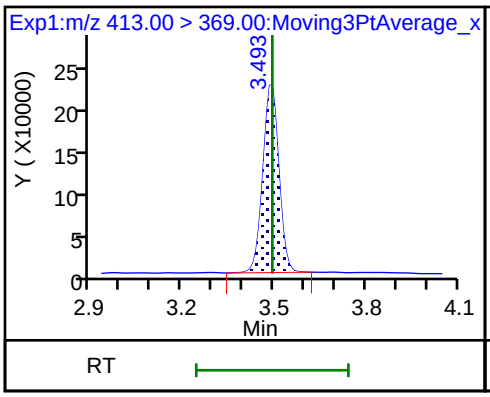
D 14 13C4 PFOA



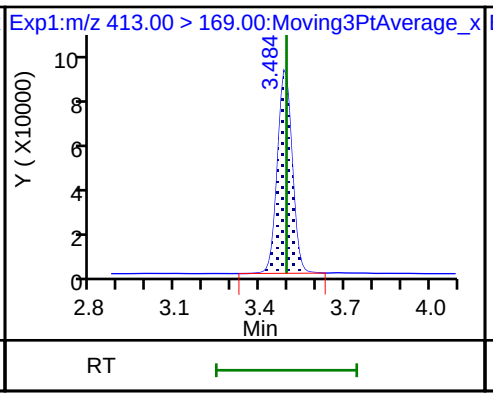
* 62 13C2 PFOA



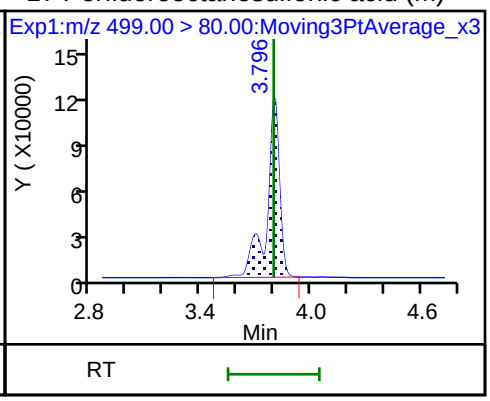
15 Perfluorooctanoic acid



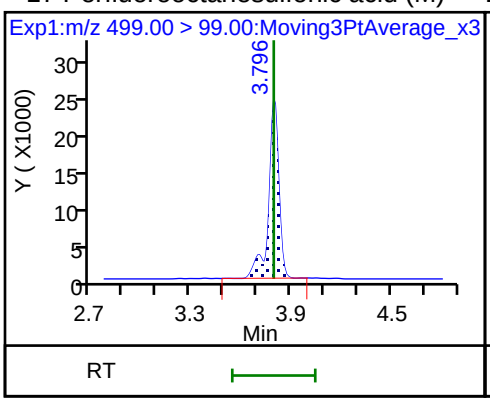
15 Perfluorooctanoic acid



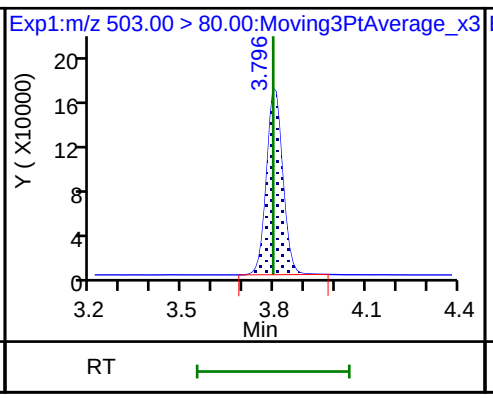
17 Perfluorooctanesulfonic acid (M)



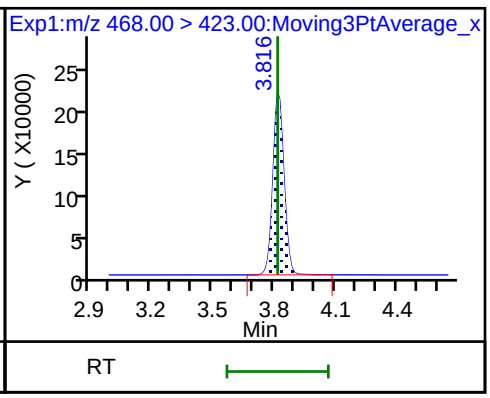
17 Perfluorooctanesulfonic acid (M)



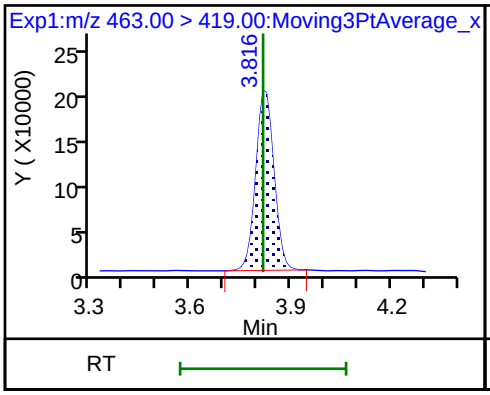
D 18 13C4 PFOS



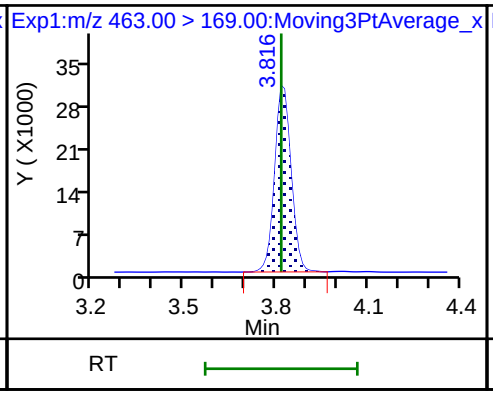
D 19 13C5 PFNA



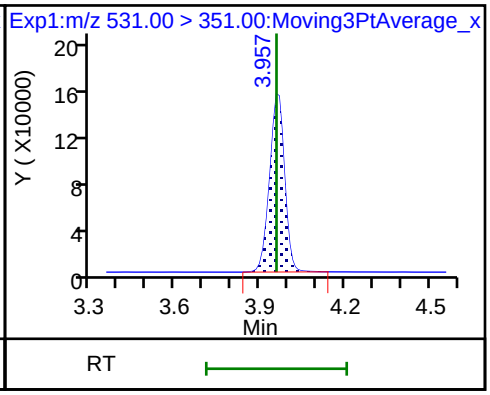
20 Perfluorononanoic acid



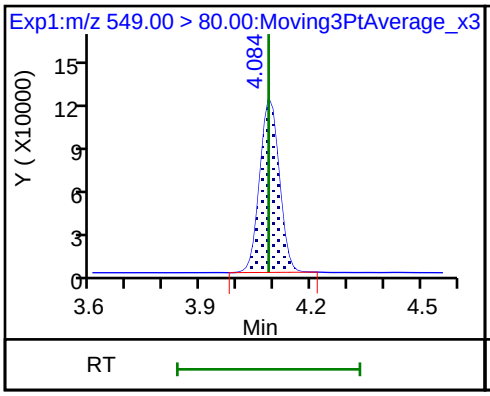
20 Perfluorononanoic acid



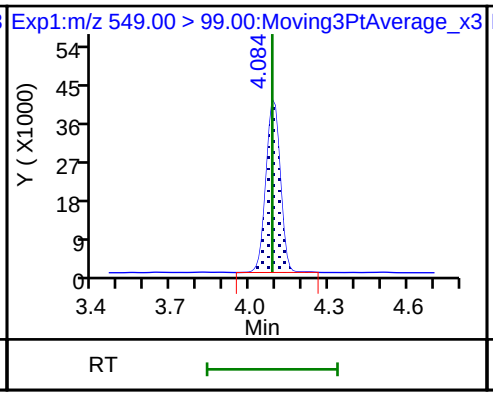
69 9-Chlorohexadecafluoro-3-oxanona



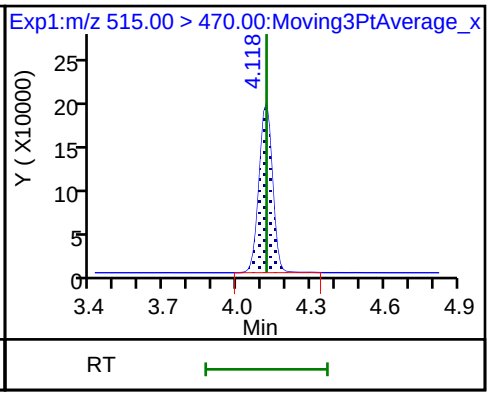
68 Perfluorononanesulfonic acid



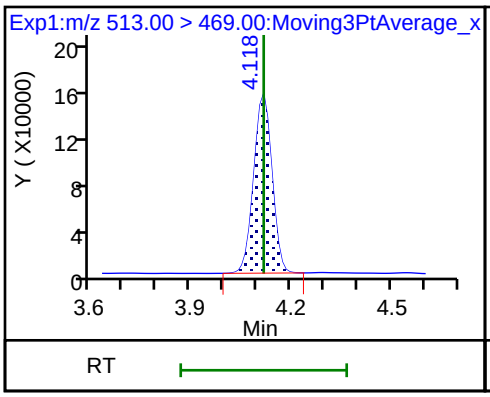
68 Perfluorononanesulfonic acid



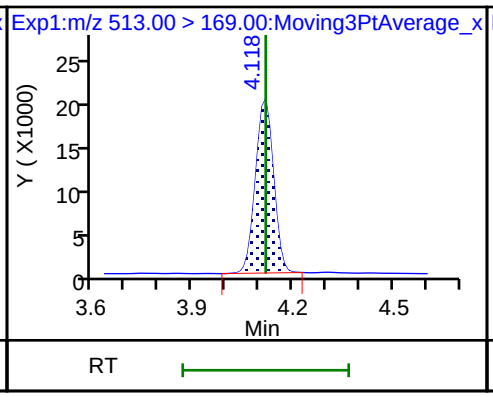
D 23 13C2 PFDA



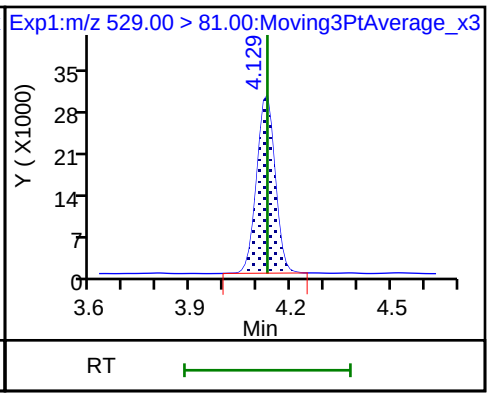
24 Perfluorodecanoic acid



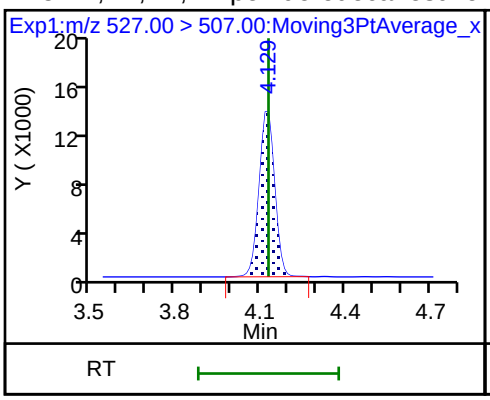
24 Perfluorodecanoic acid



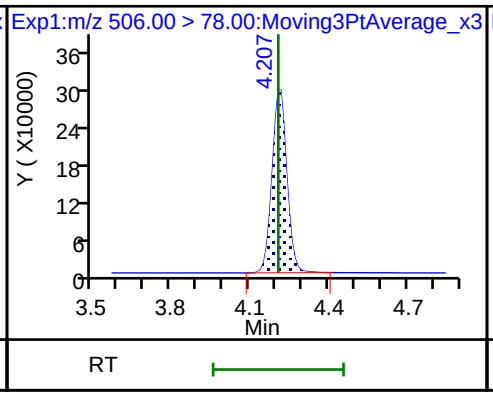
D 26 M2-8:2 FTS



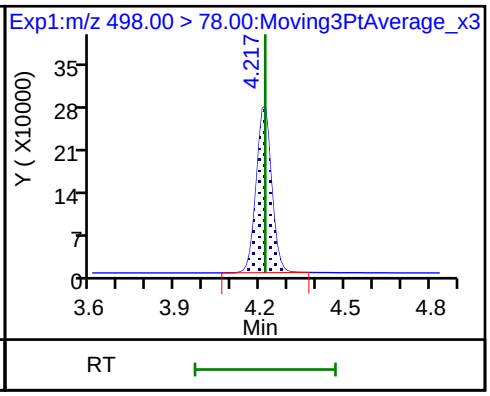
25 1H,1H,2H,2H-perfluorodecanesulfo



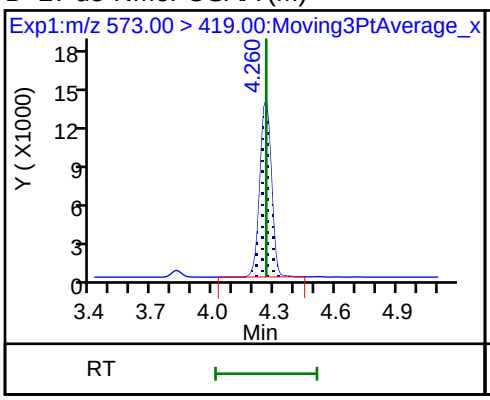
D 21 13C8 FOSA



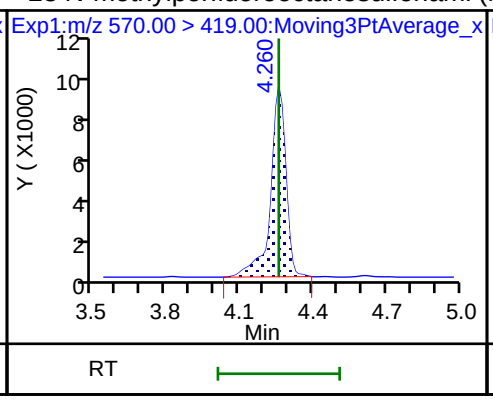
22 Perfluorooctanesulfonamide



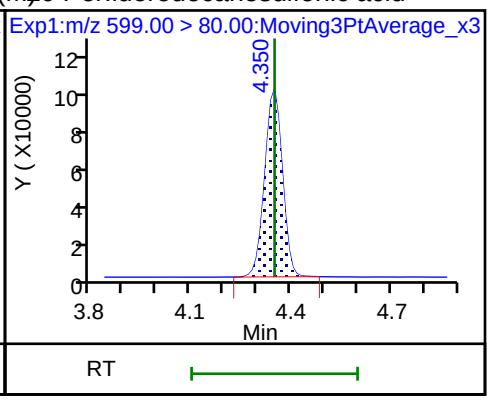
D 27 d3-NMeFOSAA (M)



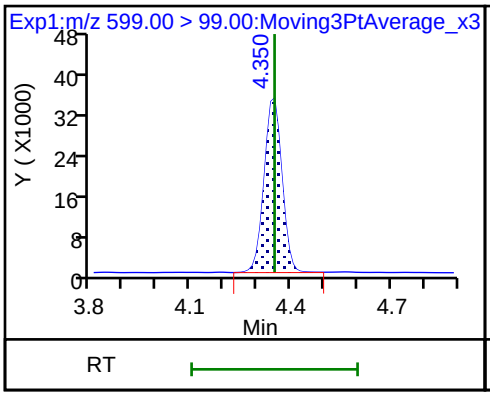
28 N-methylperfluorooctanesulfonami (M)



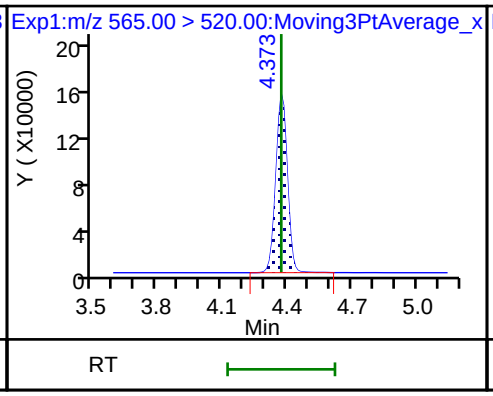
29 Perfluorodecanesulfonic acid



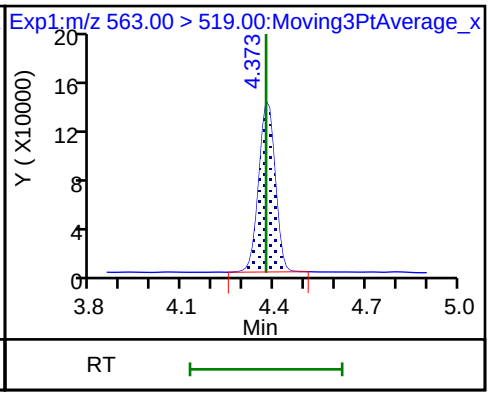
29 Perfluorodecanesulfonic acid



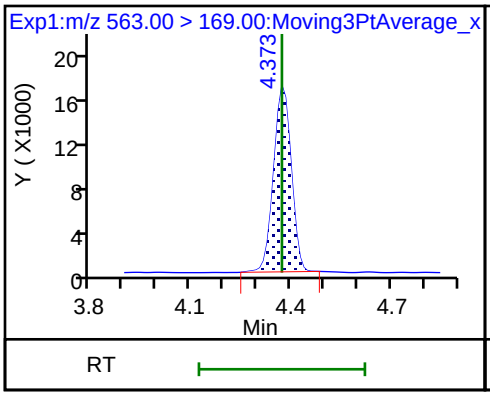
D 30 13C2 PFUnA



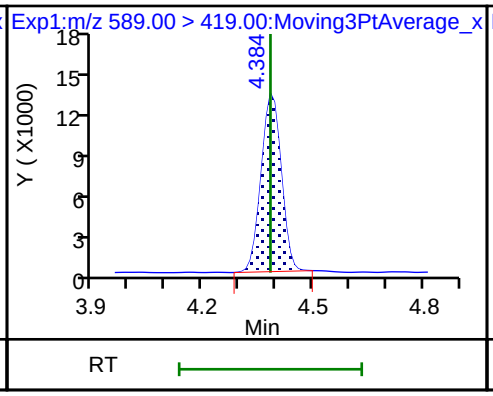
31 Perfluoroundecanoic acid



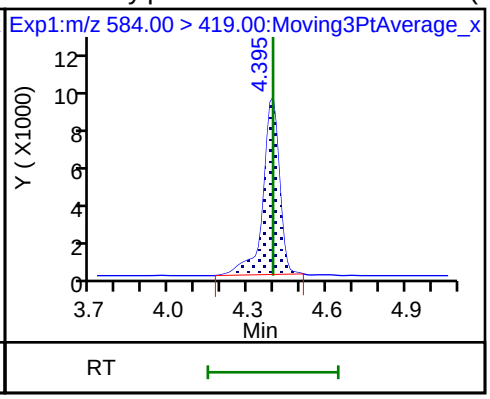
31 Perfluoroundecanoic acid



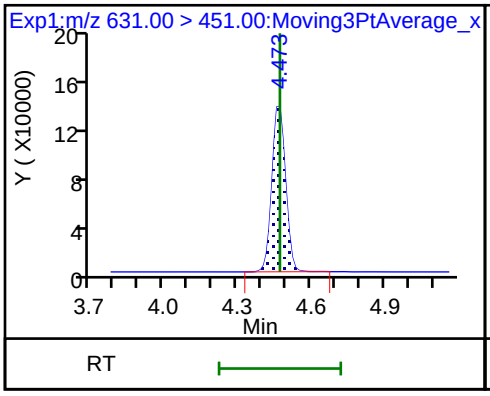
D 32 d5-NEtFOSAA



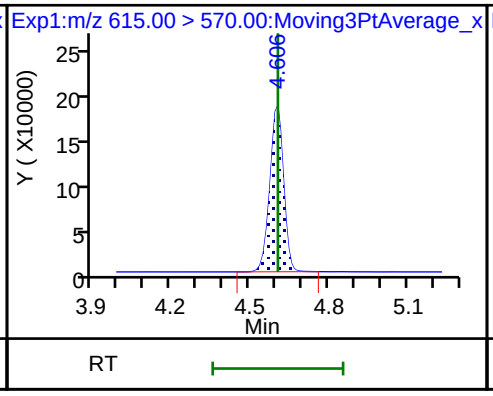
33 N-ethylperfluorooctanesulfonamid (M)



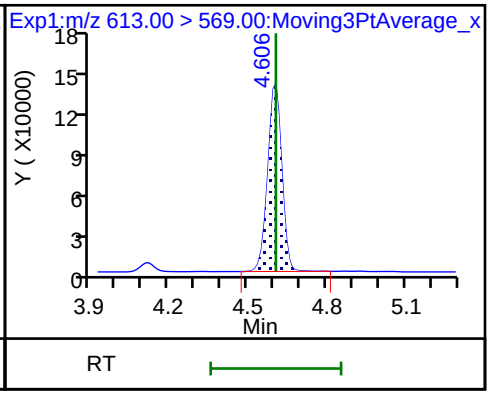
66 11-Chloroeicosafluoro-3-oxaundec



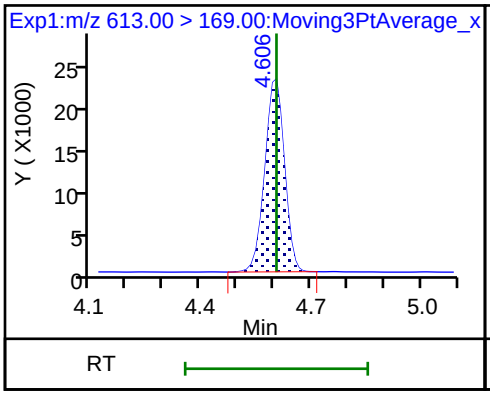
D 36 13C2 PFDoA



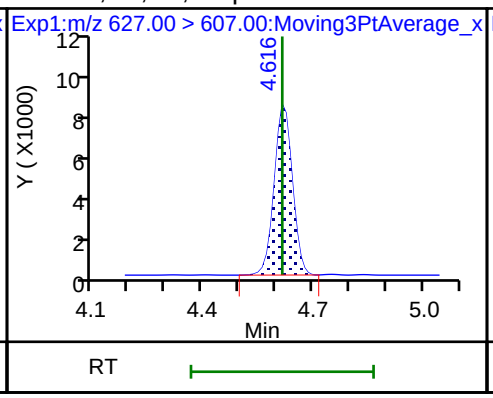
37 Perfluorododecanoic acid



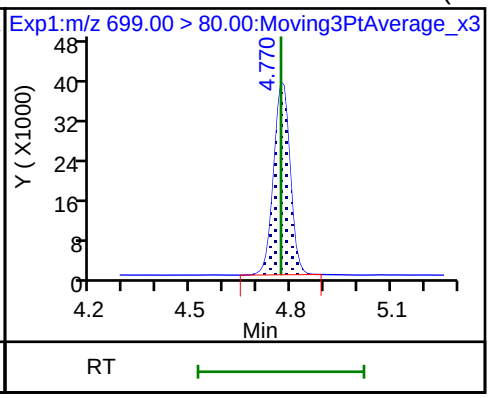
37 Perfluorododecanoic acid



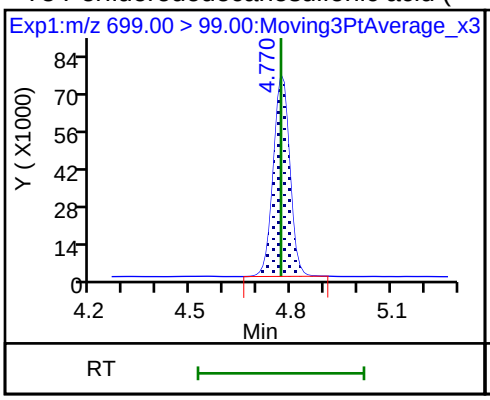
74 1H,1H,2H,2H-perfluorododecanesul



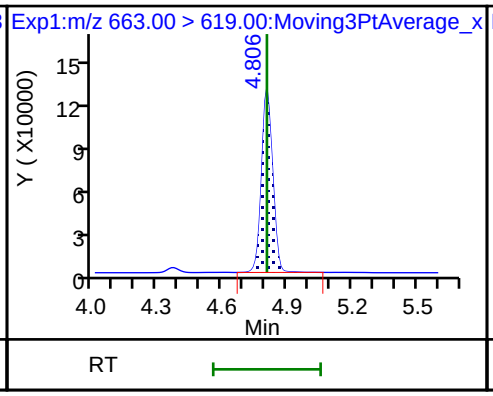
75 Perfluorododecanesulfonic acid (



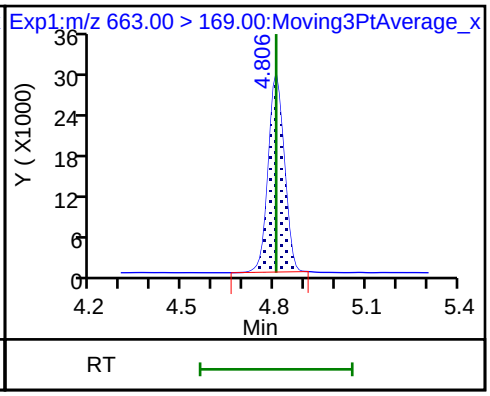
75 Perfluorododecanesulfonic acid (



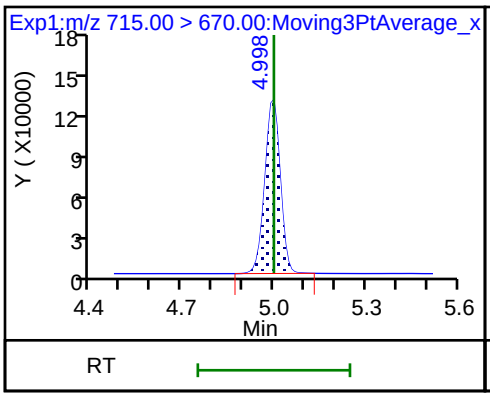
41 Perfluorotridecanoic acid



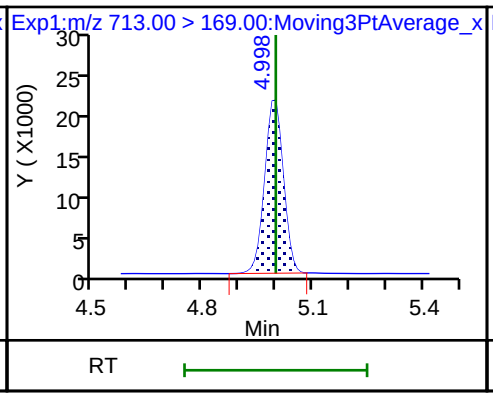
41 Perfluorotridecanoic acid



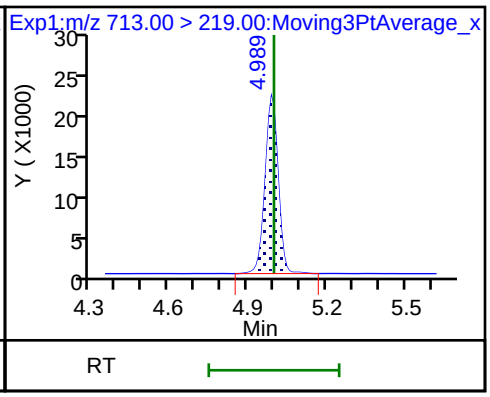
D 43 13C2 PFTeDA



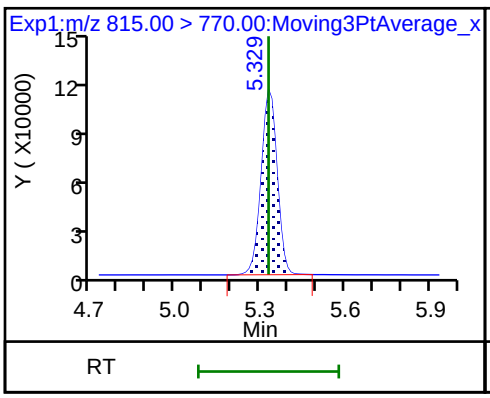
42 Perfluorotetradecanoic acid



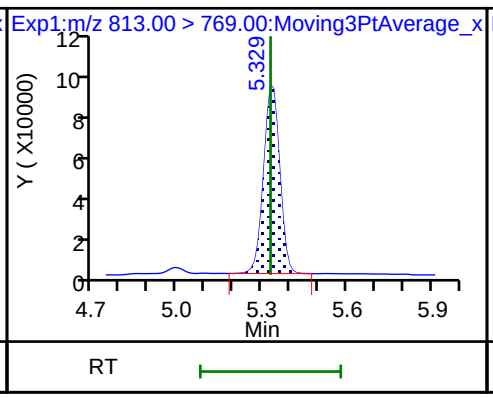
42 Perfluorotetradecanoic acid



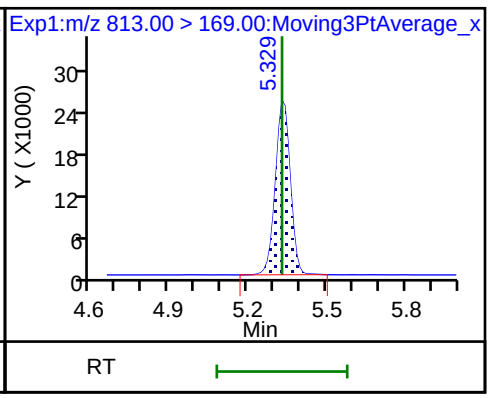
D 44 13C2 PFHxDA



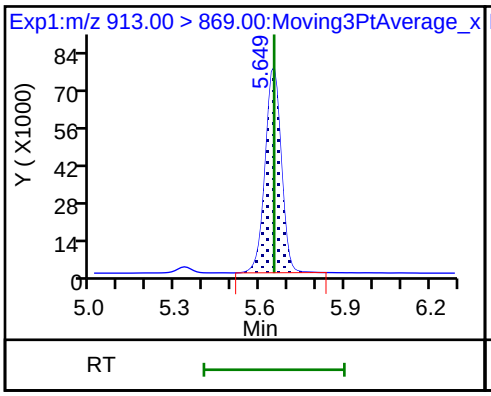
45 Perfluorohexadecanoic acid



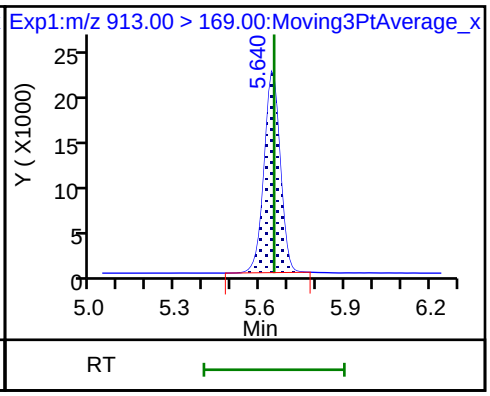
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

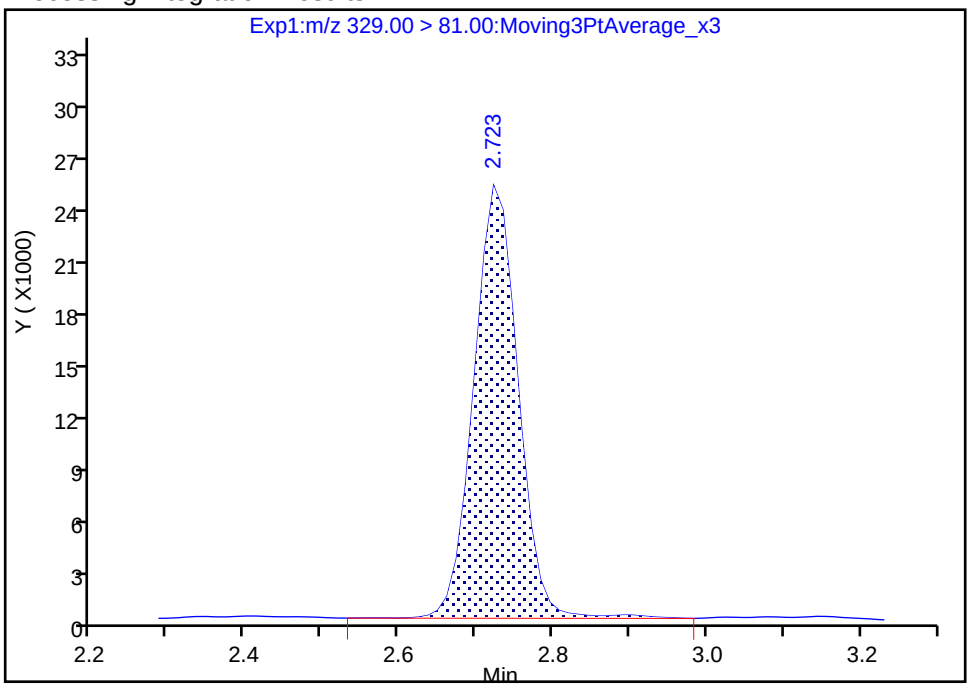
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A03.d				
Injection Date:	26-Feb-2021 13:02:56	Instrument ID:	LC812		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

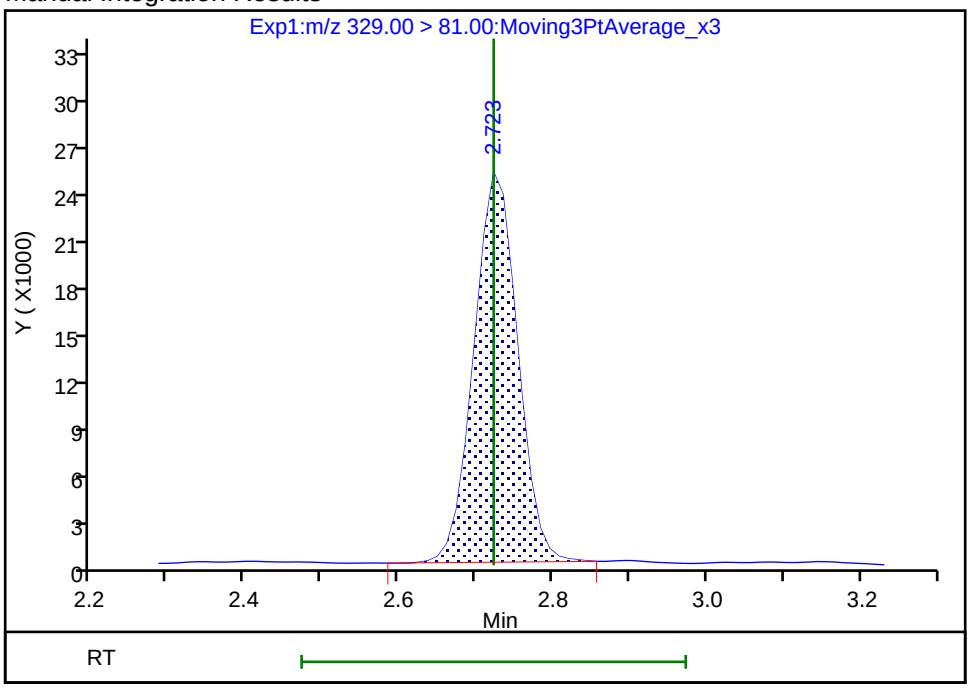
Processing Integration Results

RT: 2.72
Area: 100821
Amount: 1.195879
Amount Units: ng/ml



Manual Integration Results

RT: 2.72
Area: 98843
Amount: 1.172417
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:30:45

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

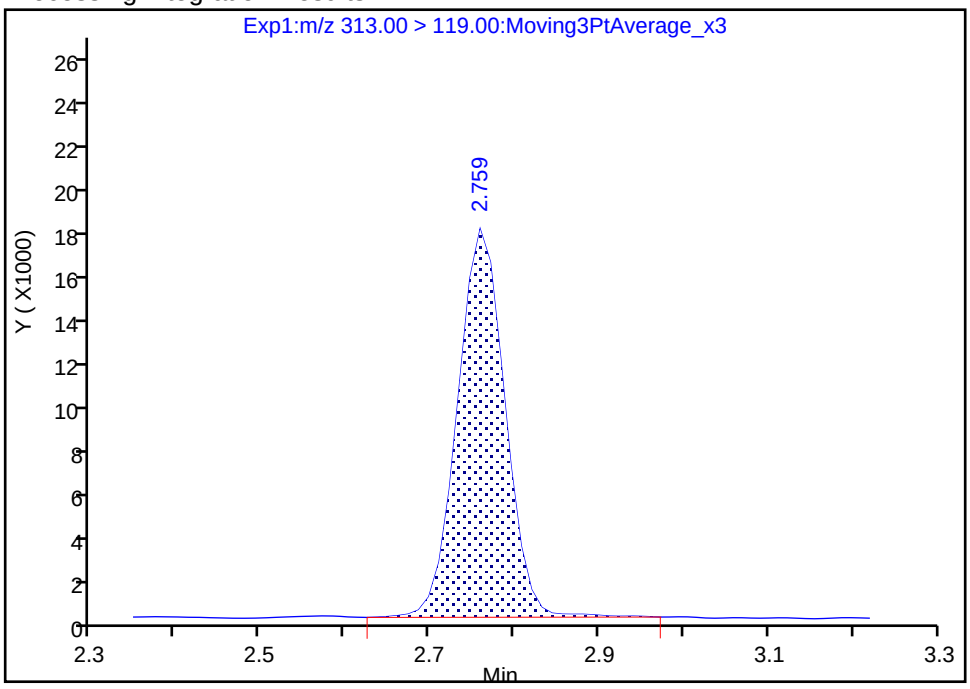
Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A03.d
Injection Date: 26-Feb-2021 13:02:56 Instrument ID: LC812
Lims ID: CCVIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

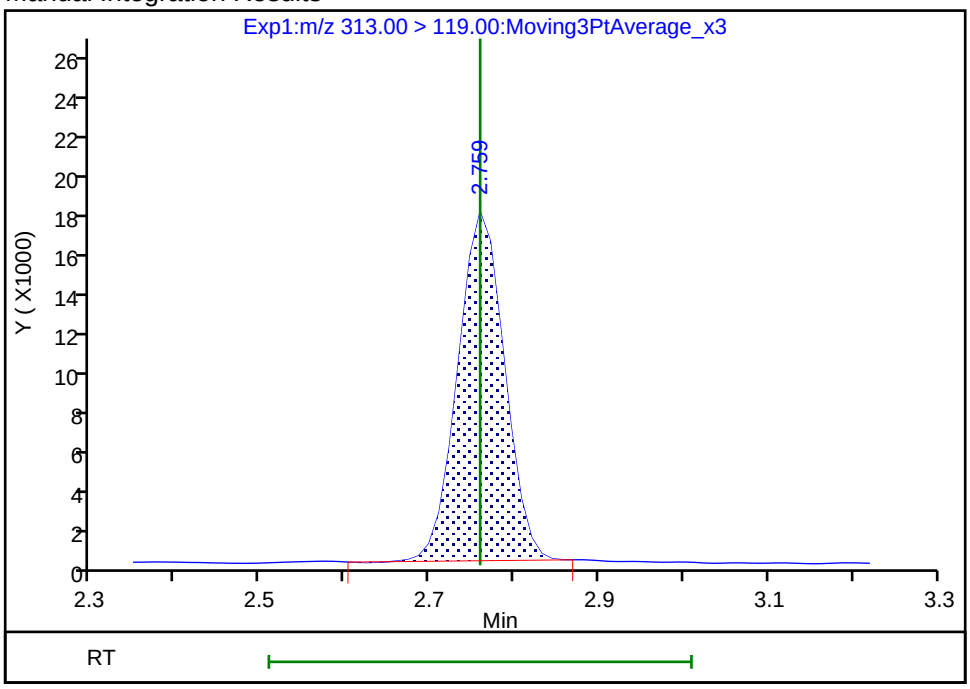
Processing Integration Results

RT: 2.76
Area: 69825
Amount: 1.010449
Amount Units: ng/ml



Manual Integration Results

RT: 2.76
Area: 68225
Amount: 1.010449
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:30:51
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

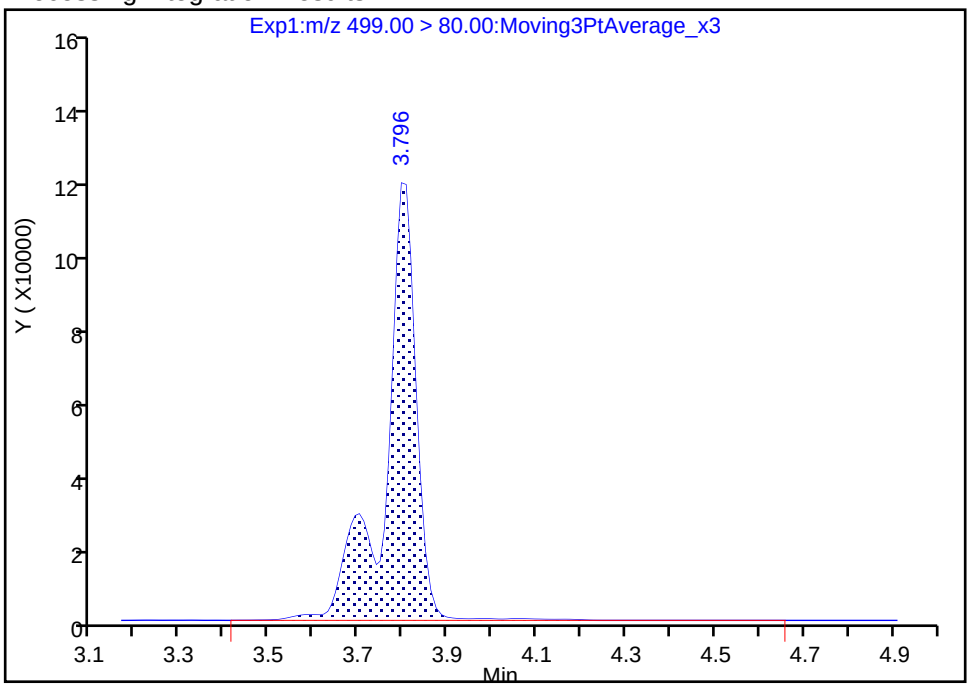
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A03.d				
Injection Date:	26-Feb-2021 13:02:56	Instrument ID:	LC812		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

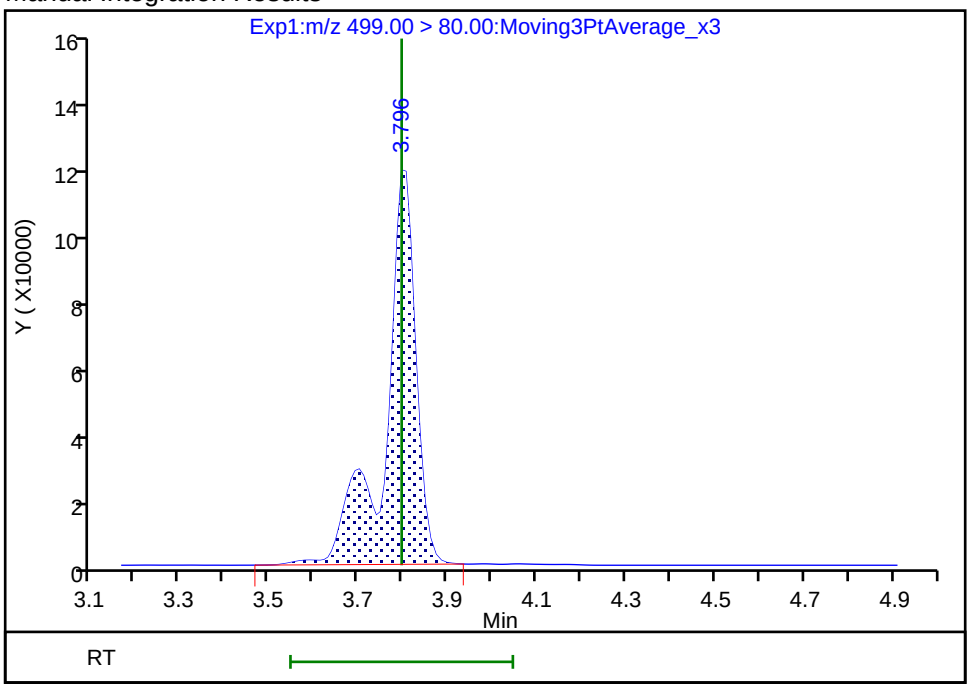
Processing Integration Results

RT: 3.80
Area: 551618
Amount: 0.919072
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 541532
Amount: 0.902267
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:31:11

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

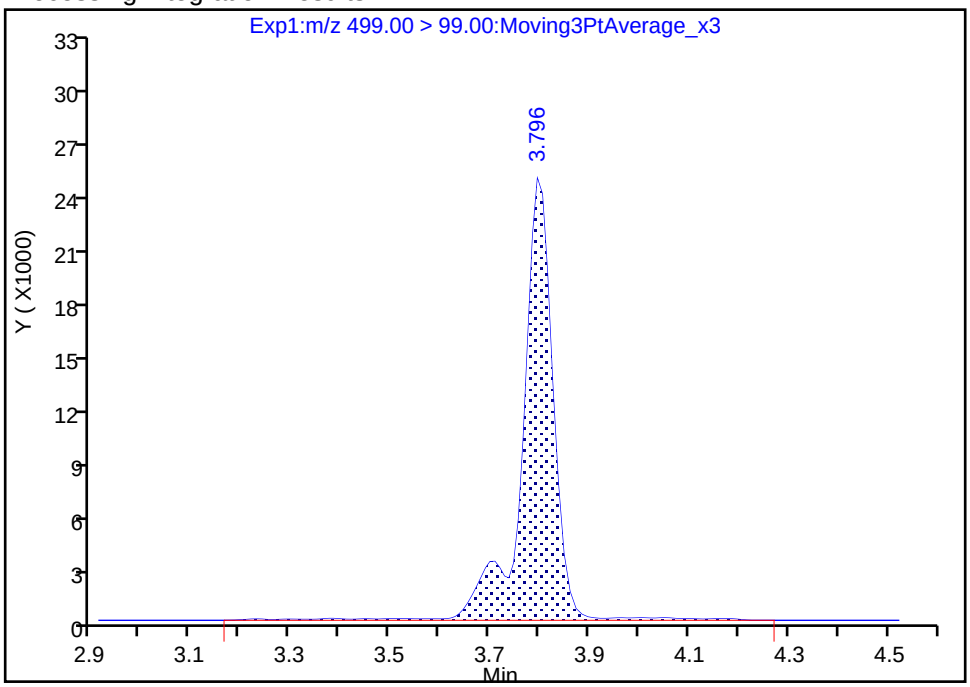
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A03.d				
Injection Date:	26-Feb-2021 13:02:56	Instrument ID:	LC812		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

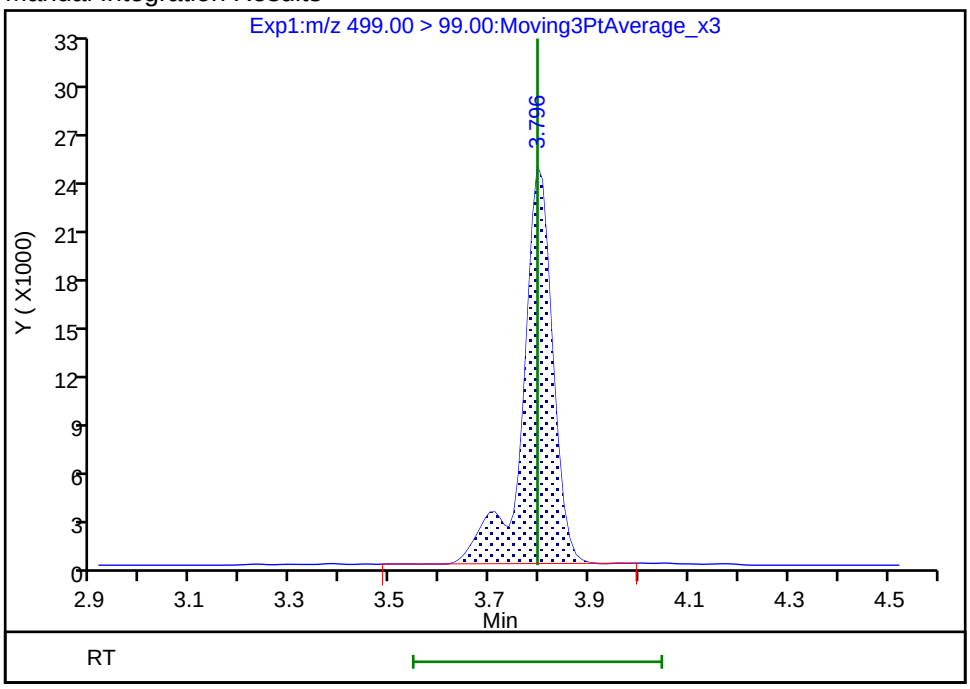
Processing Integration Results

RT: 3.80
Area: 107566
Amount: 0.919072
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 102558
Amount: 0.902267
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:31:14

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

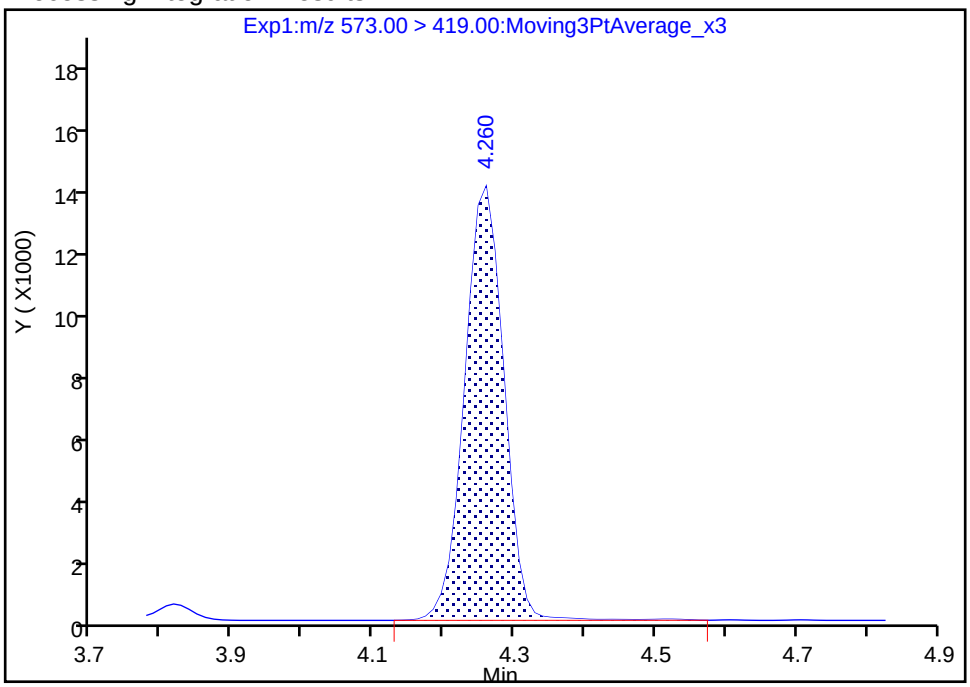
Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A03.d
Injection Date: 26-Feb-2021 13:02:56 Instrument ID: LC812
Lims ID: CCVIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

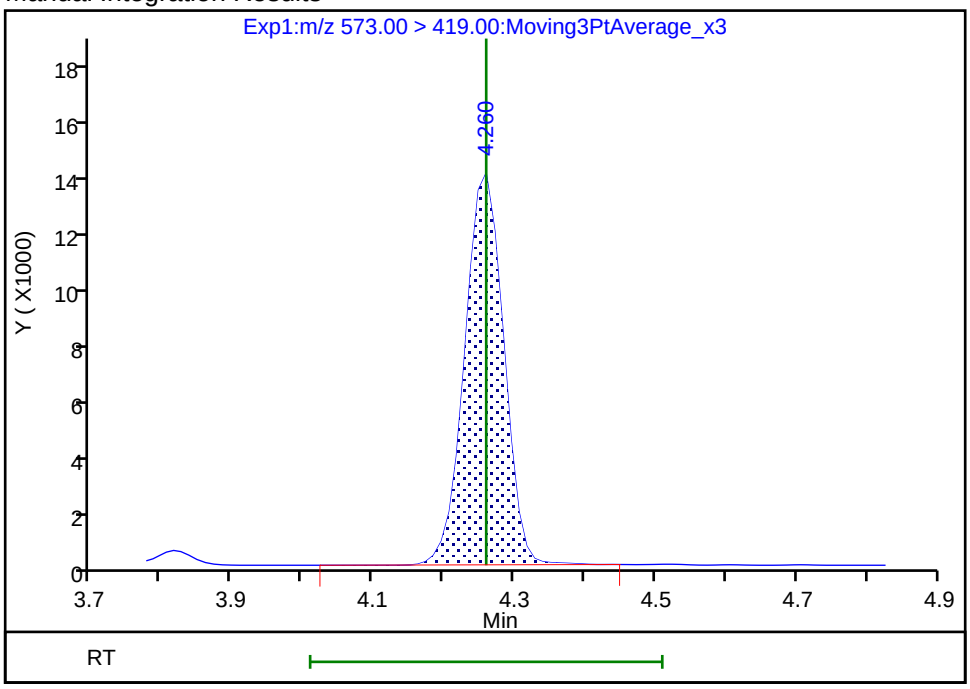
Processing Integration Results

RT: 4.26
Area: 52332
Amount: 1.093123
Amount Units: ng/ml



Manual Integration Results

RT: 4.26
Area: 51868
Amount: 1.083431
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:32:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

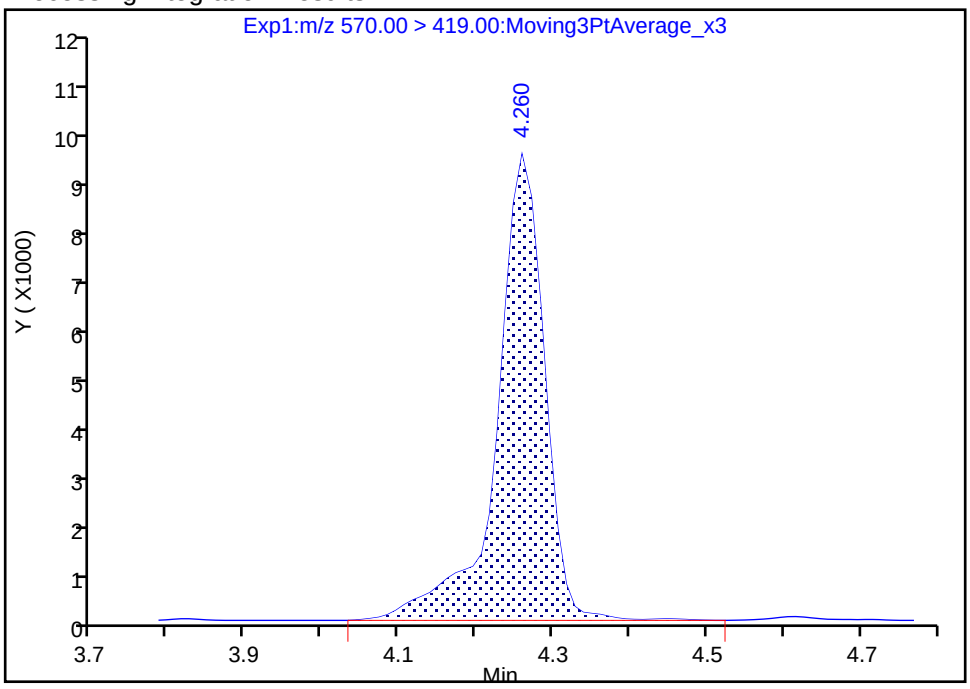
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A03.d				
Injection Date:	26-Feb-2021 13:02:56	Instrument ID:	LC812		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

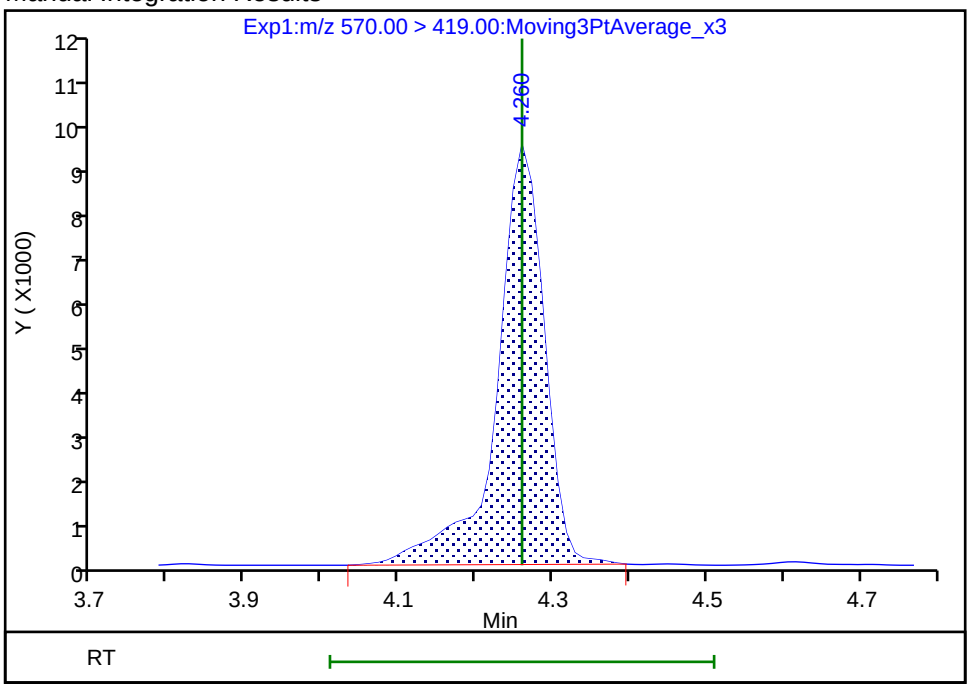
Processing Integration Results

RT: 4.26
Area: 38104
Amount: 1.036018
Amount Units: ng/ml



Manual Integration Results

RT: 4.26
Area: 37732
Amount: 1.025904
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:32:46

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

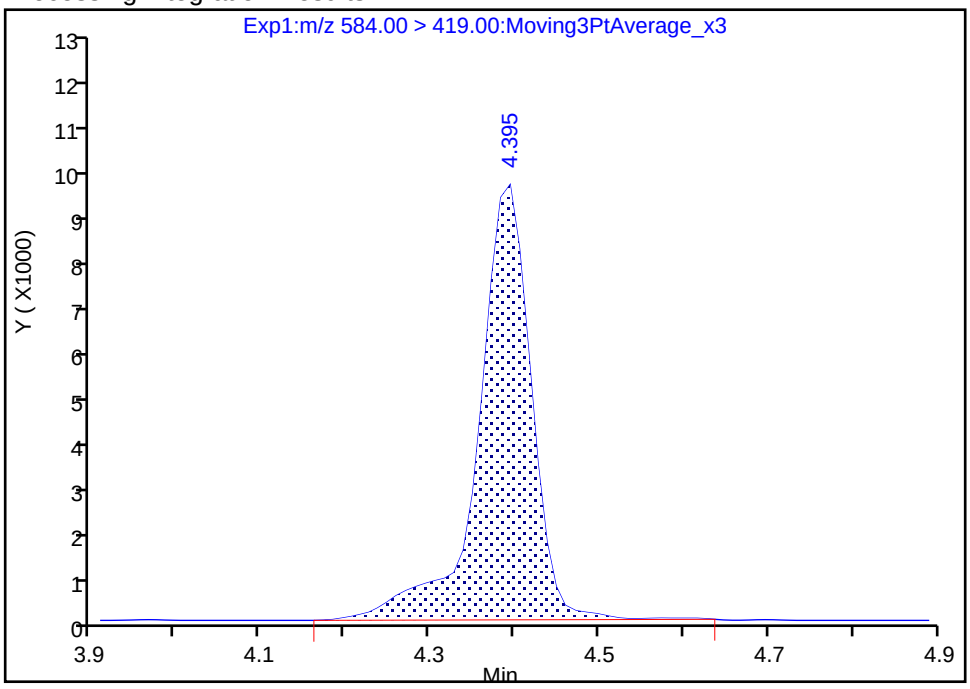
Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A03.d
Injection Date: 26-Feb-2021 13:02:56 Instrument ID: LC812
Lims ID: CCVIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

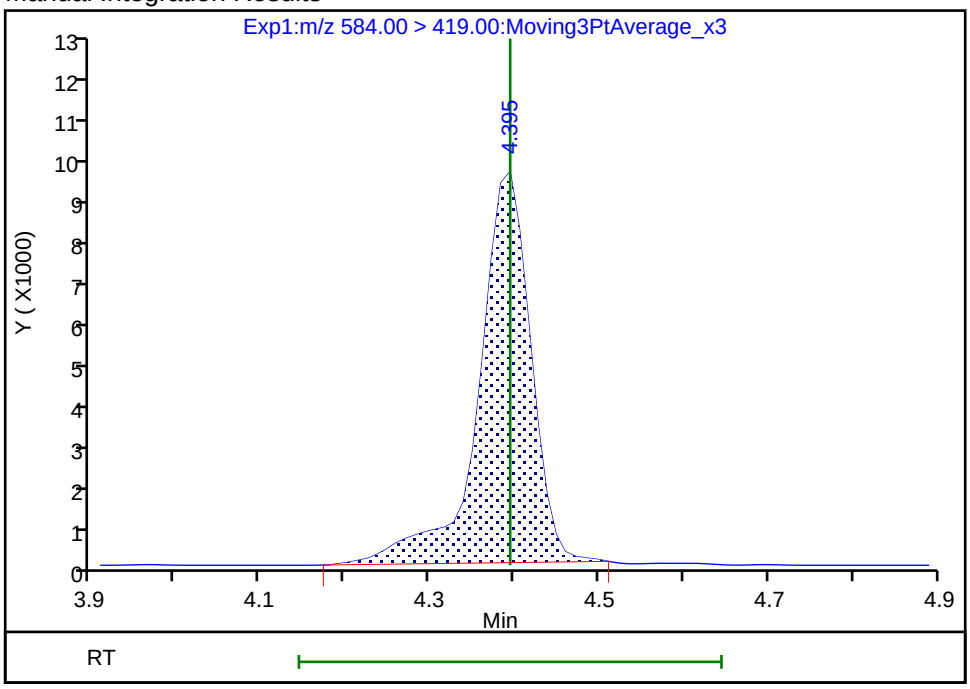
Processing Integration Results

RT: 4.39
Area: 39540
Amount: 1.074633
Amount Units: ng/ml



Manual Integration Results

RT: 4.39
Area: 38580
Amount: 1.048542
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:33:00
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 200-164334/16 Calibration Date: 02/26/2021 14:50

Instrument ID: LC812 Calib Start Date: 12/22/2020 12:48

GC Column: C-18 ID: 4.60(mm) Calib End Date: 12/22/2020 13:29

Lab File ID: PA210226A16.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.002	1.009		2.52	2.50	0.7	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.107	1.041		2.35	2.50	-6.0	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.131	1.133		2.21	2.21	0.2	40.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	1.834	1.754		2.23	2.34	-4.4	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.092	1.100		2.52	2.50	0.7	40.0
Perfluoropentanesulfonic acid	AveID	1.312	1.385		2.48	2.35	5.6	50.0
HFPO-DA	AveID	1.385	2.571		4.64	2.50	85.6*	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.178	1.135		2.19	2.28	-3.7	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.092	1.117		2.56	2.50	2.2	40.0
DONA	AveID	3.349	3.058		2.15	2.36	-8.7	50.0
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	AveID	1.112	1.039		2.21	2.37	-6.6	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.350	1.290		2.27	2.38	-4.4	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.084	1.093		2.52	2.50	0.9	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.150	1.084		2.19	2.32	-5.7	40.0
Perfluorononanoic acid (PFNA)	AveID	1.107	1.163		2.63	2.50	5.1	40.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	1.283	1.104		2.00	2.33	-14.0	50.0
Perfluorononanesulfonic acid	AveID	0.8581	0.8483		2.37	2.40	-1.1	50.0
Perfluorodecanoic acid (PFDA)	AveID	1.031	1.095		2.66	2.50	6.3	40.0
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	AveID	0.6801	0.5697		2.01	2.40	-16.2	40.0
Perfluorooctanesulfonamide (FOSA)	AveID	1.002	1.094		2.73	2.50	9.1	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.8864	0.9009		2.54	2.50	1.6	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6841	0.6773		2.39	2.41	-1.0	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	1.020	1.040		2.55	2.50	2.0	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9257	0.8788		2.37	2.50	-5.1	40.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	1.331	1.003		1.77	2.36	-24.7	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.100	1.013		2.30	2.50	-7.9	40.0
10:2 FTS	AveID	0.3501	0.3312		2.28	2.41	-5.4	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2517	0.2414		2.32	2.42	-4.1	50.0
Perfluorotridecanoic acid (PFTriA)	AveID	0.8926	0.8991		2.52	2.50	0.7	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1855	0.2040		2.75	2.50	10.0	40.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Lab Sample ID: CCV 200-164334/16 Calibration Date: 02/26/2021 14:50

Instrument ID: LC812 Calib Start Date: 12/22/2020 12:48

GC Column: C-18 ID: 4.60(mm) Calib End Date: 12/22/2020 13:29

Lab File ID: PA210226A16.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-hexadecanoic acid (PFHxDA)	L1ID		0.9925		2.65	2.50	6.0	40.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8998	0.8253		2.29	2.50	-8.3	50.0
13C4 PFBA	Ave	1.343	1.215		1.13	1.25	-9.5	50.0
13C5 PFPeA	Ave	0.9710	0.9272		1.19	1.25	-4.5	50.0
13C3 PFBS	Ave	1.278	1.212		1.10	1.16	-5.1	50.0
M2-4:2 FTS	Ave	0.1066	0.1034		1.13	1.17	-3.0	50.0
13C2 PFHxA	Ave	1.018	0.9860		1.21	1.25	-3.1	50.0
13C3 HFPO-DA	Ave	0.1792	0.0739		0.516	1.25	-58.7*	50.0
18O2 PFHxS	Ave	0.9511	0.9313		1.16	1.18	-2.1	50.0
13C4 PFHpA	Ave	0.9742	0.9057		1.16	1.25	-7.0	50.0
M2-6:2 FTS	Ave	0.1187	0.1186		1.19	1.19	-0.0	50.0
13C4 PFOA	Ave	0.9896	0.9104		1.15	1.25	-8.0	50.0
13C4 PFOS	Ave	0.6528	0.6738		1.23	1.20	3.2	50.0
13C5 PFNA	Ave	0.8730	0.7898		1.13	1.25	-9.5	50.0
13C2 PFDA	Ave	0.8346	0.6851		1.03	1.25	-17.9	50.0
M2-8:2 FTS	Ave	0.1225	0.1187		1.16	1.20	-3.1	50.0
13C8 FOSA	Ave	1.227	1.127		1.15	1.25	-8.1	50.0
d3-NMeFOSAA	Ave	0.0605	0.0509		1.05	1.25	-15.9	50.0
13C2 PFUnA	Ave	0.6856	0.5619		1.02	1.25	-18.0	50.0
d5-NEtFOSAA	Ave	0.0585	0.0517		1.10	1.25	-11.7	50.0
13C2 PFDoA	Ave	0.7238	0.6390		1.10	1.25	-11.7	50.0
13C2 PFTeDA	Ave	0.5353	0.4721		1.10	1.25	-11.8	50.0
13C2 PFHxDA	Ave	0.5718	0.4429		0.968	1.25	-22.5	50.0

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A16.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 26-Feb-2021 14:50:42 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: 200-0044972-016 Plate: 1 Rack: 2
Operator ID: lc812tech Instrument ID: LC812
Sublist: chrom-PFC_LC812*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 26-Feb-2021 16:14:39 Calib Date: 22-Dec-2020 13:29:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1601

First Level Reviewer: deannd Date: 26-Feb-2021 15:34:55
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.082	2.082	0.0	0.598	1466646	1.13		90.5	12123	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.082	2.082	0.0	1.000	2960594	2.52		101	996	
D 3 13C5 PFPeA										
267.90 > 223.00	2.401	2.401	0.0	0.689	1118970	1.19		95.5	3729	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.401	2.401	0.0	1.000	2329205	2.35		94.0	165	
D 47 13C3 PFBS										
301.90 > 80.00	2.427	2.427	0.0	0.697	1360520	1.10		94.9	498896	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.427	2.427	0.0	1.000	2931240	2.21	Target=2.21	100	3811	
298.90 > 99.00	2.427	2.427	0.0	1.000	1293754		2.27(1.11-3.32)		935	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.723	2.723	0.0	0.781	116501	1.13		97.0	141	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.723	2.723	0.0	1.000	408582	2.23		95.6	2479	
D 7 13C2 PFHxA										
315.00 > 270.00	2.759	2.759	0.0	0.792	1189909	1.21		96.9	3372	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.759	2.759	0.0	1.000	2617698	2.52	Target=12.83	101	802	
313.00 > 119.00	2.759	2.759	0.0	1.000	204974		12.77(6.42-19.25)		265	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.771	2.771	0.0	0.888	2920638	2.48	Target=3.35	106	4248	
349.00 > 99.00	2.759	2.771	-0.012	0.884	822679		3.55(1.67-5.02)		984	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.869	2.869	0.0	0.823	89229	0.5158		41.3	980	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										
329.10 > 285.00	2.869	2.869	0.0	1.000	458853	4.64		186	136	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.122	3.123	-0.001	1.000	2320783	2.19	Target=4.15	96.3	1164	M
399.00 > 99.00	3.122	3.123	-0.001	1.000	546184		4.25(2.08-6.23)		371	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.122	3.123	-0.001	0.896	1063223	1.16		97.9	2023	
D 9 13C4 PFHpA										
367.00 > 322.00	3.133	3.133	0.0	0.899	1092972	1.16		93.0	3098	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.133	3.133	0.0	1.000	2440892	2.56	Target=3.66	102	918	
363.00 > 169.00	3.133	3.133	0.0	1.000	659656		3.70(1.83-5.49)		1268	
77 DONA										
377.00 > 251.00	3.165	3.165	0.0	0.834	4684501	2.15	Target=2.43	91.3	4301	
377.00 > 85.00	3.165	3.165	0.0	0.834	1923841		2.43(1.22-3.65)		1775	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.475	3.475	0.0	0.915	1997582	2.27	Target=5.95	95.6	4726	
449.00 > 99.00	3.475	3.475	0.0	0.915	330745		6.04(2.98-8.93)		1132	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.475	3.475	0.0	0.997	135967	1.19		99.9	624	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.475	3.475	0.0	1.000	281873	2.21		93.4	1377	
D 14 13C4 PFOA										
417.00 > 372.00	3.484	3.484	0.0	1.000	1098691	1.15		92.0	2286	
* 62 13C2 PFOA										
415.00 > 370.00	3.484	3.484	0.0		1206812	1.25			1477	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.484	3.493	-0.009	1.000	2402682	2.52	Target=2.58	101	562	
413.00 > 169.00	3.484	3.493	-0.009	1.000	970188		2.48(1.29-3.87)		2442	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.796	3.796	0.0	1.000	1636717	2.19	Target=5.65	94.3	927	M
499.00 > 99.00	3.796	3.796	0.0	1.000	291922		5.61(2.82-8.47)		889	M
D 18 13C4 PFOS										
503.00 > 80.00	3.796	3.796	0.0	1.090	777408	1.23		103	2725	
D 19 13C5 PFNA										
468.00 > 423.00	3.816	3.816	0.0	1.095	953181	1.13		90.5	4110	
20 Perfluorononanoic acid										
463.00 > 419.00	3.816	3.816	0.0	1.000	2216858	2.63	Target=7.44	105	382	
463.00 > 169.00	3.816	3.816	0.0	1.000	313083		7.08(3.72-11.16)		2324	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.957	3.957	0.0	1.043	1672718	2.00		86.0	4290	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.084	4.084	0.0	1.076	1324425	2.37	Target=2.54	98.9	6514	
549.00 > 99.00	4.084	4.084	0.0	1.076	468587		2.83(1.27-3.81)		1079	
D 23 13C2 PFDA										
515.00 > 470.00	4.118	4.118	0.0	1.182	826746	1.03		82.1	2195	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.118	4.118	0.0	1.000	1810609	2.66	Target=9.29	106	1061	
513.00 > 169.00	4.118	4.118	0.0	1.000	227231		7.97(4.64-13.93)		1215	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.129	4.129	0.0	1.185	137281	1.16		96.9	917	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.129	4.129	0.0	1.000	156429	2.01		83.8	1043	
D 21 13C8 FOSA										
506.00 > 78.00	4.207	4.207	0.0	1.208	1360075	1.15		91.9	3118	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.217	4.217	0.0	1.002	2975324	2.73		109	2958	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.260	4.260	0.0	1.223	61421	1.05		84.1	82.6	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.260	4.260	0.0	1.000	110672	2.54		102	357	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.350	4.350	0.0	1.146	1061862	2.39	Target=2.80	99.0	1924	
599.00 > 99.00	4.350	4.350	0.0	1.146	375719		2.83(1.40-4.19)		2140	
D 30 13C2 PFUnA										
565.00 > 520.00	4.373	4.373	-0.001	1.255	678093	1.02		82.0	4300	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.373	4.373	-0.001	1.000	1410614	2.55	Target=8.12	102	884	
563.00 > 169.00	4.373	4.373	-0.001	1.000	190308		7.41(4.06-12.18)		1463	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.384	4.384	0.0	1.258	62351	1.10		88.3	634	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.395	4.395	0.0	1.003	109586	2.37		94.9	1105	
66 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.472	4.473	-0.001	1.178	1536318	1.77		75.3	3109	
D 36 13C2 PFDoA										
615.00 > 570.00	4.606	4.606	0.0	1.322	771206	1.10		88.3	3320	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.606	4.606	0.0	1.000	1562004	2.30	Target=6.91	92.1	504	
613.00 > 169.00	4.606	4.606	0.0	1.000	265191		5.89(3.45-10.36)		1957	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.626	4.616	0.010	1.120	91514	2.28		94.6	1616	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.770	4.770	0.0	1.257	379967	2.32	Target=0.51	95.9	2397	
699.00 > 99.00	4.770	4.770	0.0	1.257	774739		0.49(0.26-0.77)		2197	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.806	4.806	0.0	1.043	1386788	2.52	Target=4.39	101	586	
663.00 > 169.00	4.806	4.806	0.0	1.043	330652		4.19(2.20-6.59)		2663	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.998	4.998	0.0	1.435	569729	1.10		88.2	1911	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.998	4.998	0.0	1.000	232468	2.75	Target=1.06	110	2184	
713.00 > 219.00	4.989	4.998	-0.010	0.998	232969		1.00(0.53-1.59)		3038	

Report Date: 26-Feb-2021 16:14:40 Chrom Revision: 2.3 05-Feb-2021 00:13:28
Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A16.d
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.340	5.329	0.011	1.533	534488	0.9682		77.5	2378	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.340	5.329	0.011	1.000	1060923	2.65	Target=3.84	106	335	
813.00 > 169.00	5.340	5.329	0.011	1.000	295201		3.59(1.92-5.76)		3973	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.649	5.649	0.0	1.058	882248	2.29	Target=3.92	91.7	736	
913.00 > 169.00	5.649	5.649	0.0	1.058	258460		3.41(1.96-5.88)		2283	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

PFAS32NCIC5_00014 Amount Added: 100.00 Units: uL

Report Date: 26-Feb-2021 16:14:40 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A16.d

Injection Date: 26-Feb-2021 14:50:42 Instrument ID: LC812

Lims ID: CCV L5

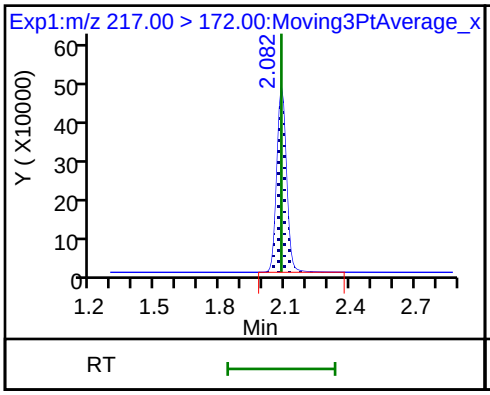
Client ID:

Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 16

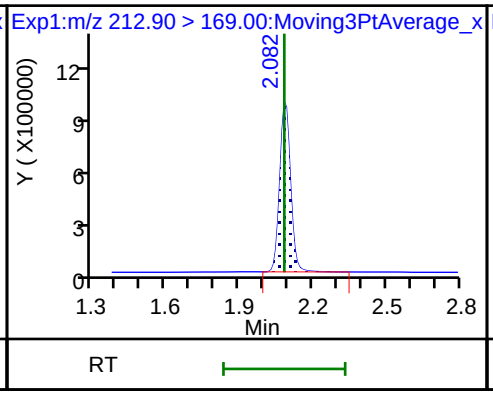
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

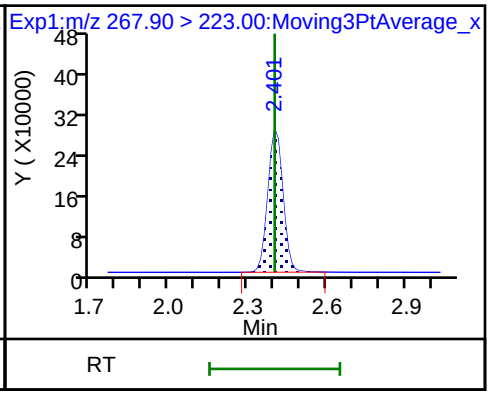
D 1 13C4 PFBA



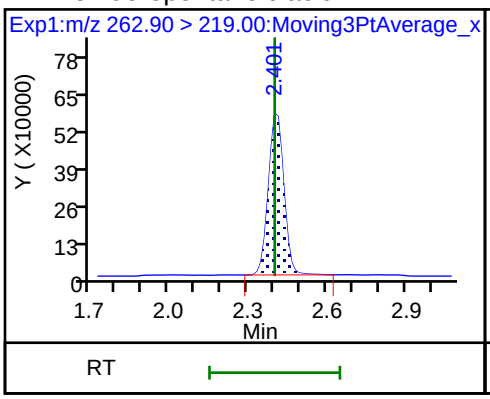
2 Perfluorobutanoic acid



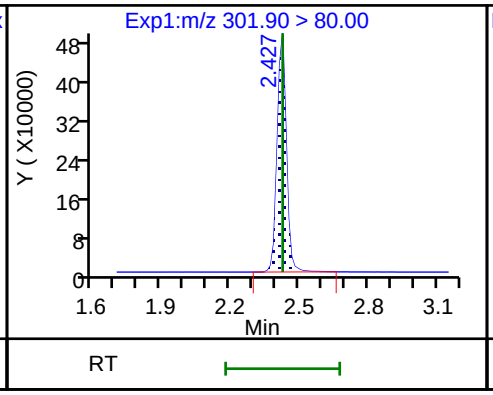
D 3 13C5 PFPeA



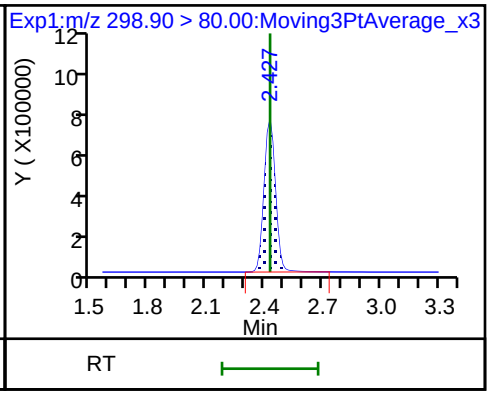
4 Perfluoropentanoic acid



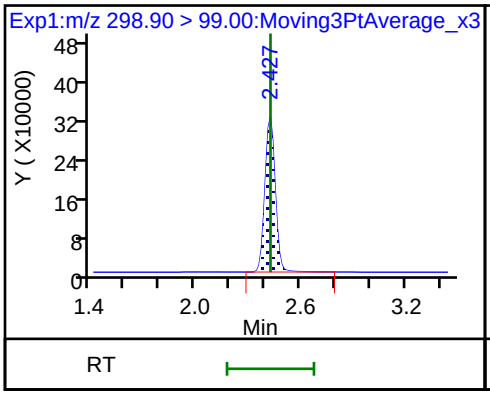
D 47 13C3 PFBS



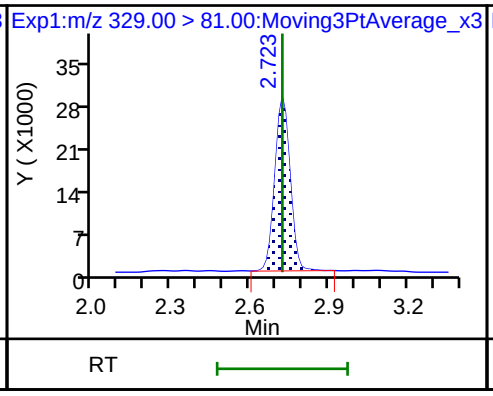
5 Perfluorobutanesulfonic acid



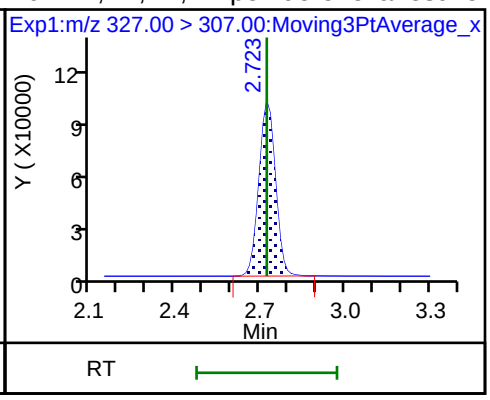
5 Perfluorobutanesulfonic acid



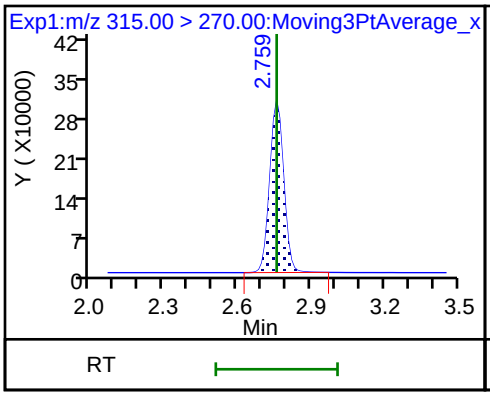
D 60 M2-4:2 FTS



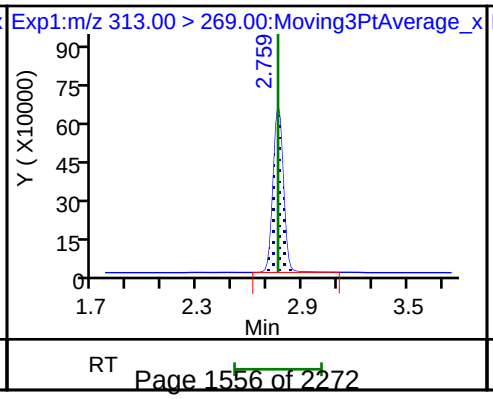
61 1H,1H,2H,2H-perfluorohexanesulfo



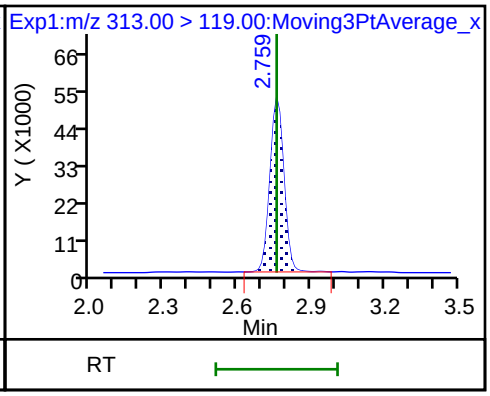
D 7 13C2 PFHxA



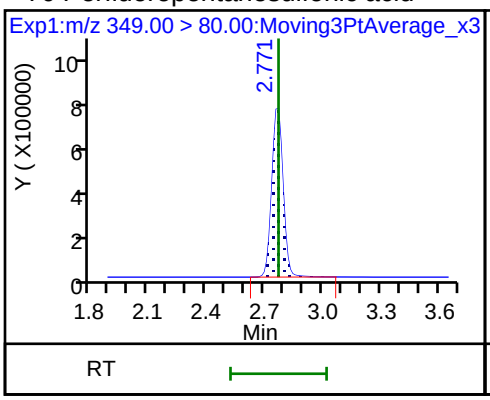
6 Perfluorohexanoic acid



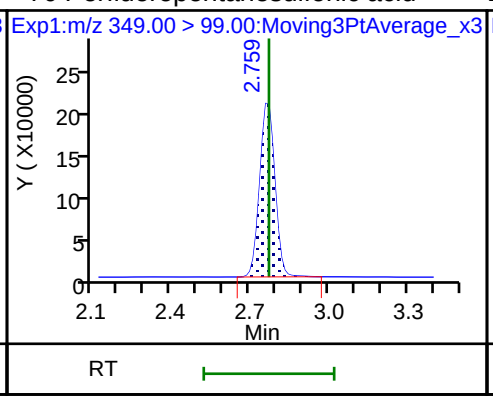
6 Perfluorohexanoic acid



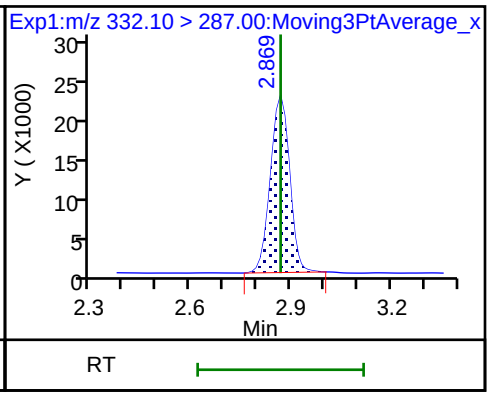
70 Perfluoropentanesulfonic acid



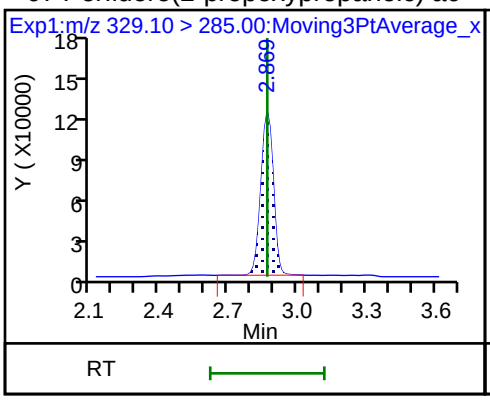
70 Perfluoropentanesulfonic acid



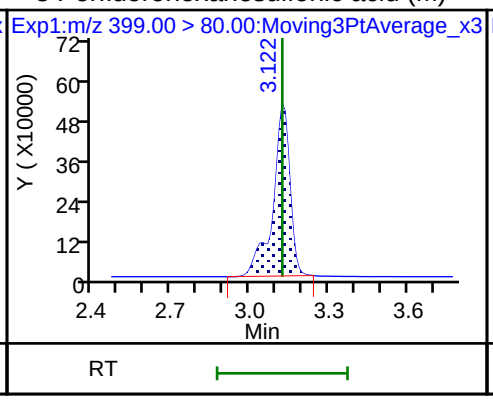
D 64 13C3 HFPO-DA



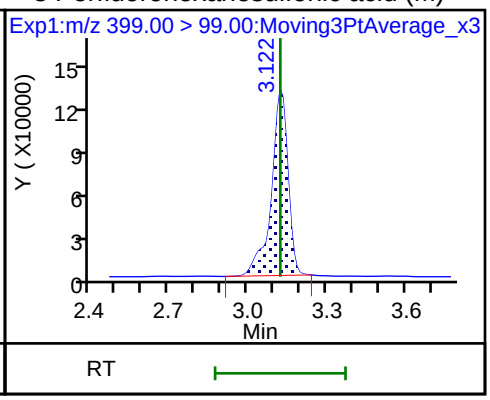
67 Perfluoro(2-propoxypropanoic) ac



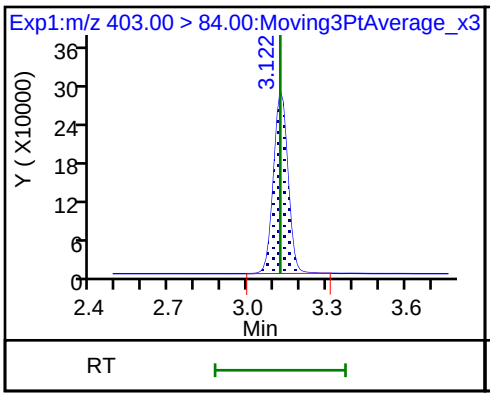
8 Perfluorohexanesulfonic acid (M)



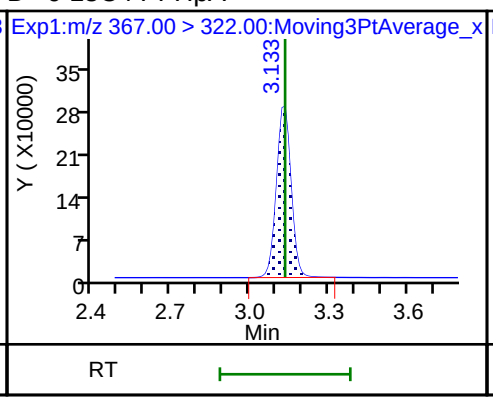
8 Perfluorohexanesulfonic acid (M)



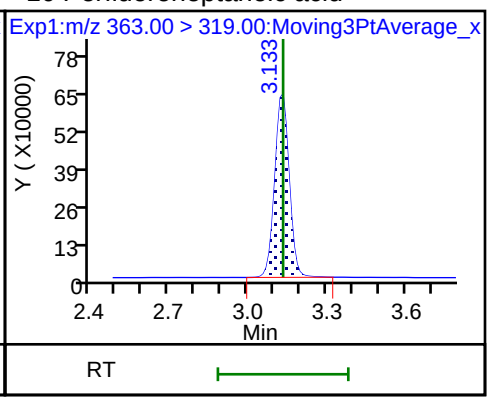
D 11 18O2 PFHxS



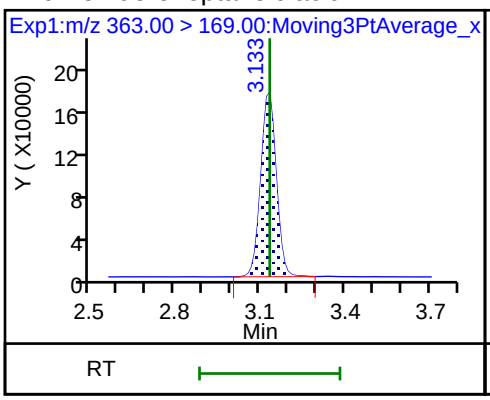
D 9 13C4 PFHpA



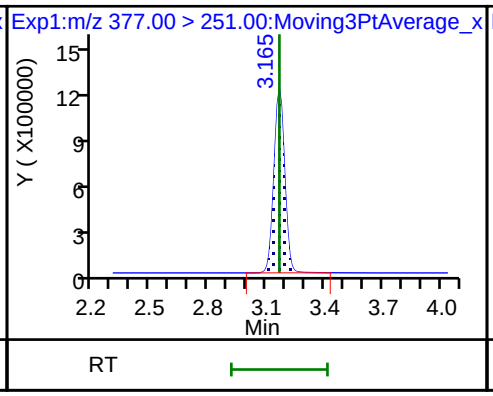
10 Perfluoroheptanoic acid



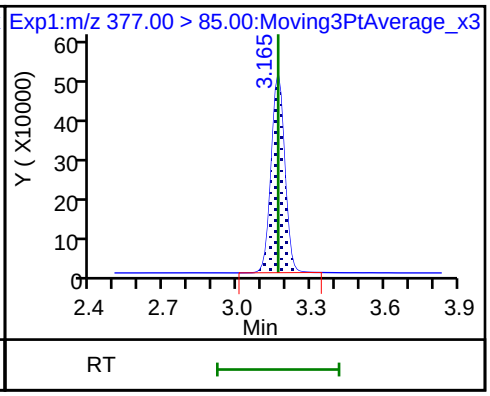
10 Perfluoroheptanoic acid



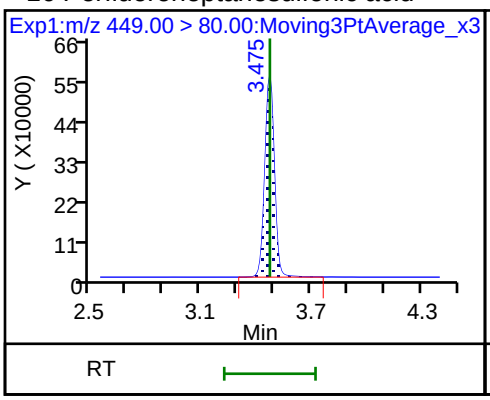
77 DONA



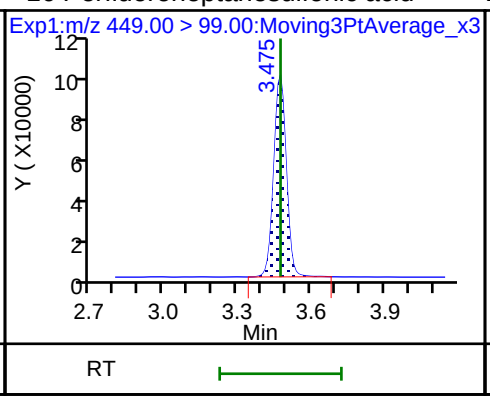
77 DONA



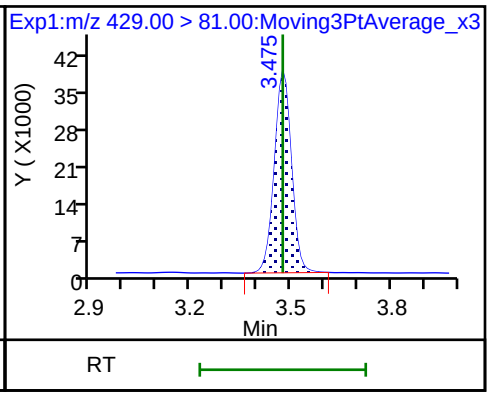
16 Perfluoroheptanesulfonic acid



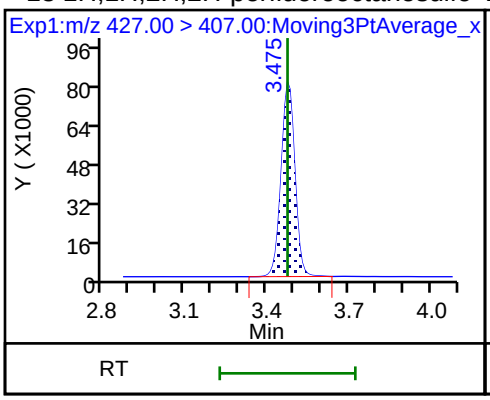
16 Perfluoroheptanesulfonic acid



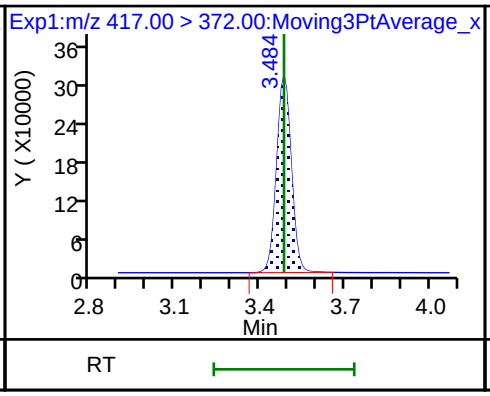
D 12 M2-6:2 FTS



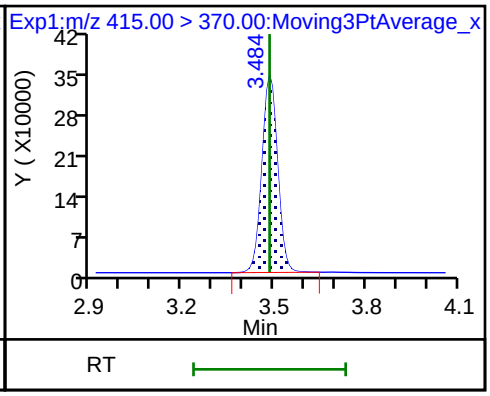
13 1H,1H,2H,2H-perfluorooctanesulfo



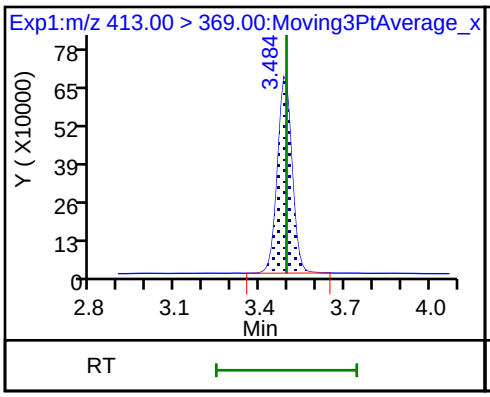
D 14 13C4 PFOA



* 62 13C2 PFOA



15 Perfluorooctanoic acid



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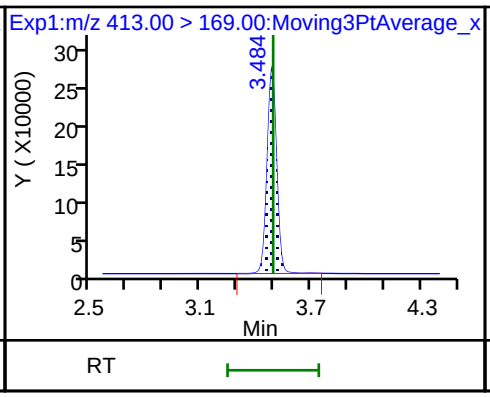
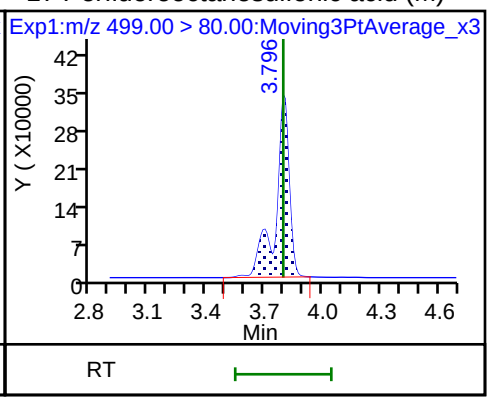
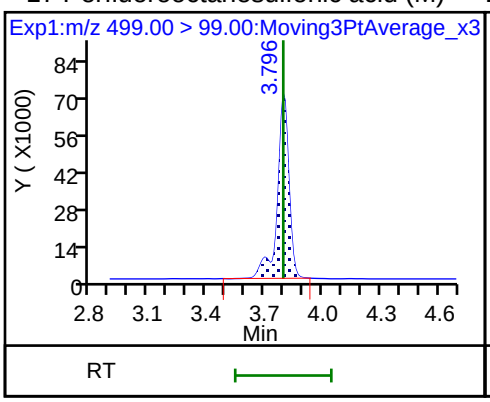


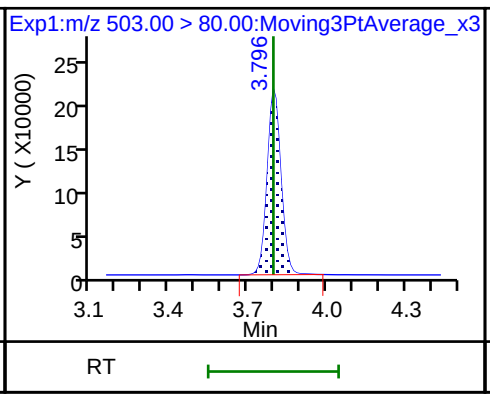
17 Perfluorooctanesulfonic acid (M)



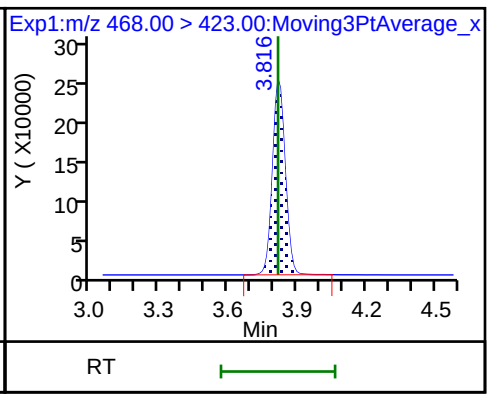
17 Perfluorooctanesulfonic acid (M)



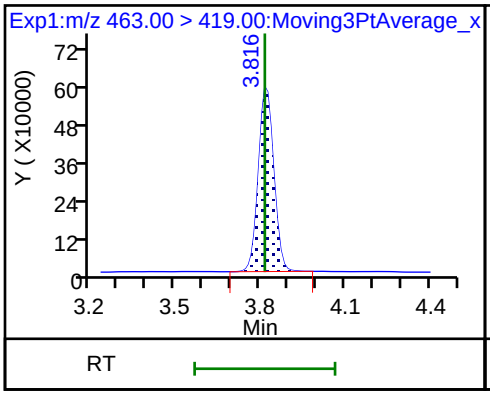
D 18 13C4 PFOS



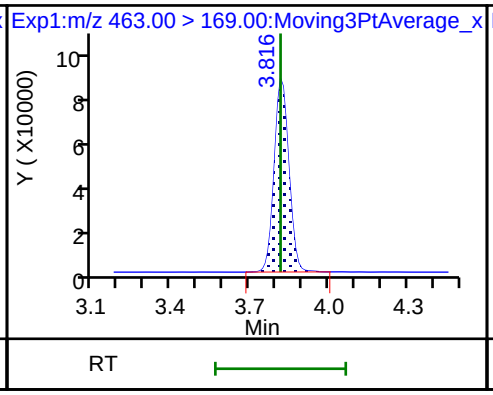
D 19 13C5 PFNA



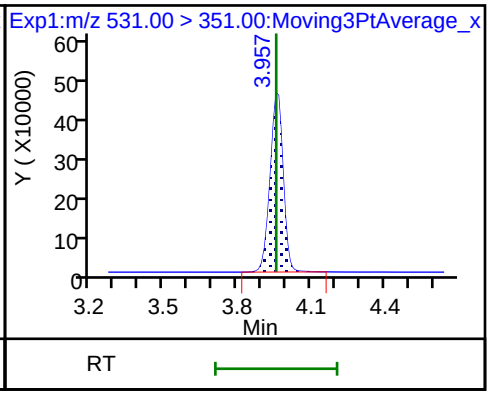
20 Perfluorononanoic acid



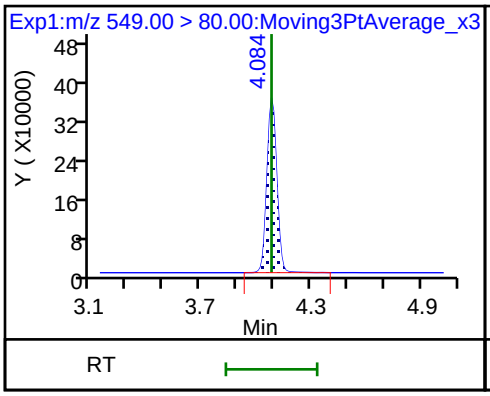
20 Perfluorononanoic acid



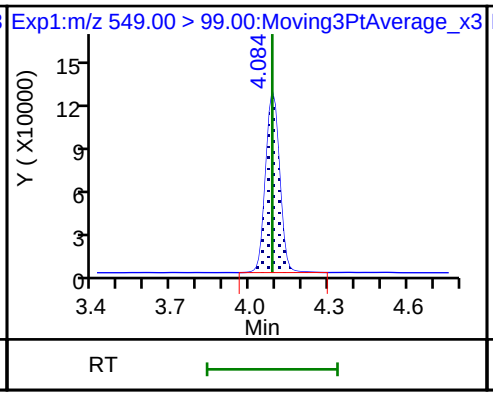
69 9-Chlorohexadecafluoro-3-oxanona



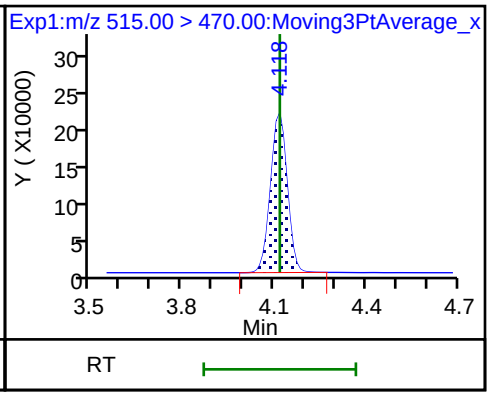
68 Perfluorononanesulfonic acid



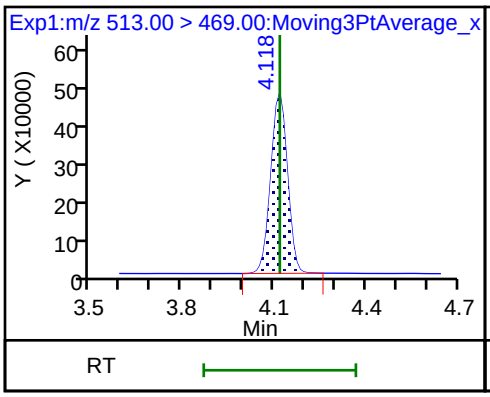
68 Perfluorononanesulfonic acid



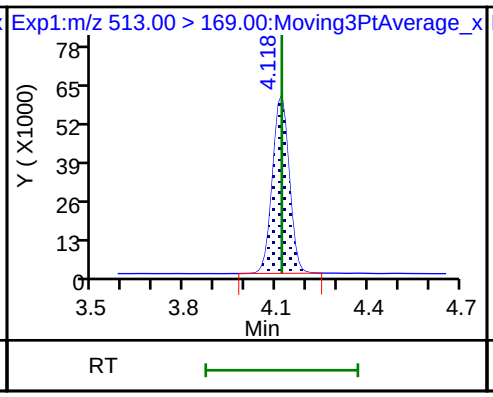
D 23 13C2 PFDA



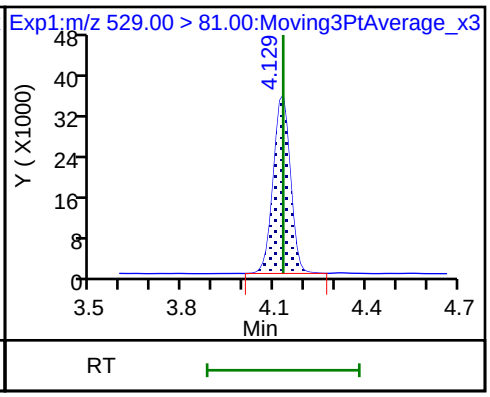
24 Perfluorodecanoic acid



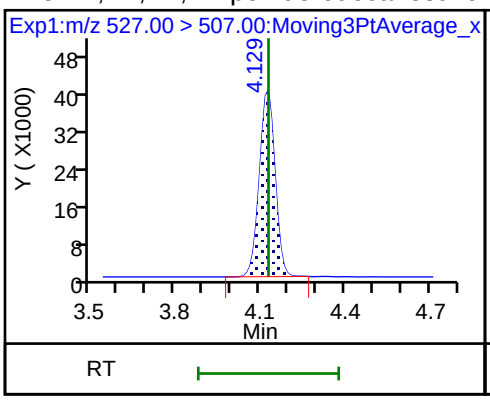
24 Perfluorodecanoic acid



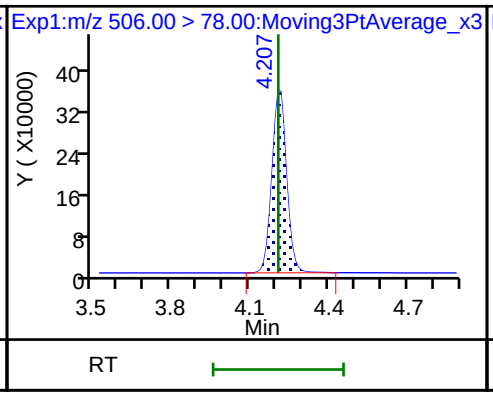
D 26 M2-8:2 FTS



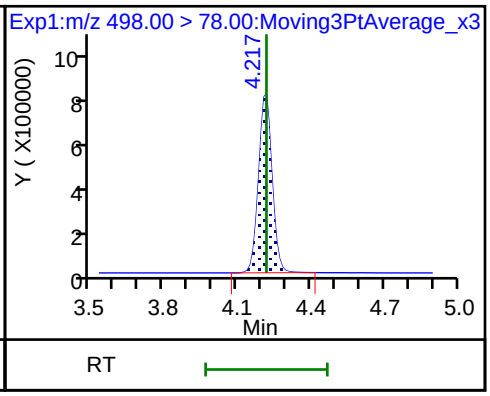
25 1H,1H,2H,2H-perfluorodecanesulfo



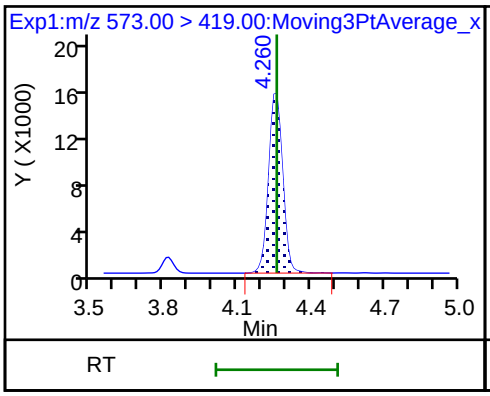
D 21 13C8 FOSA



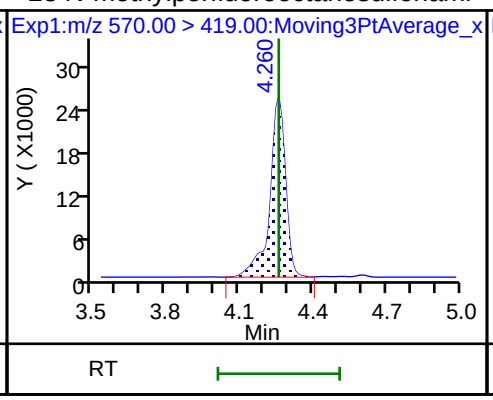
22 Perfluorooctanesulfonamide



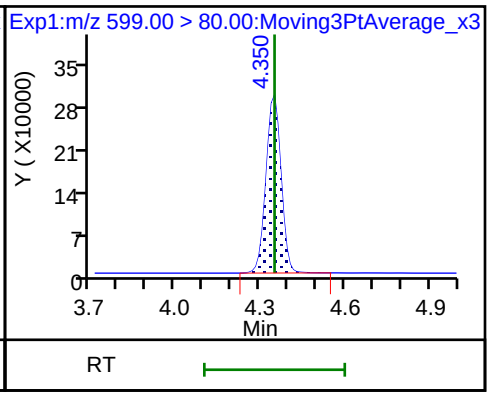
D 27 d3-NMeFOSAA



28 N-methylperfluorooctanesulfonami



29 Perfluorodecanesulfonic acid



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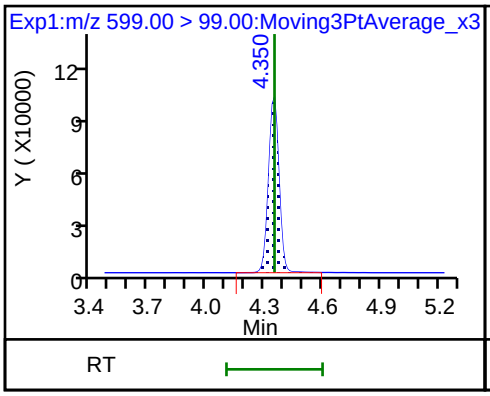
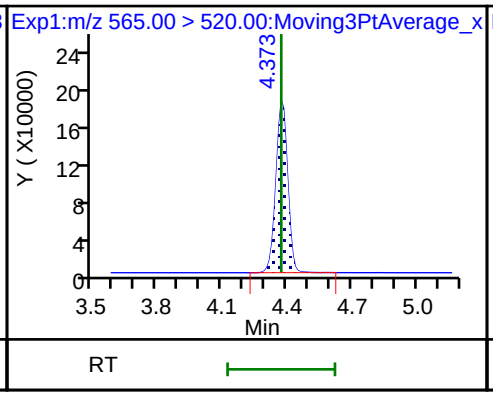
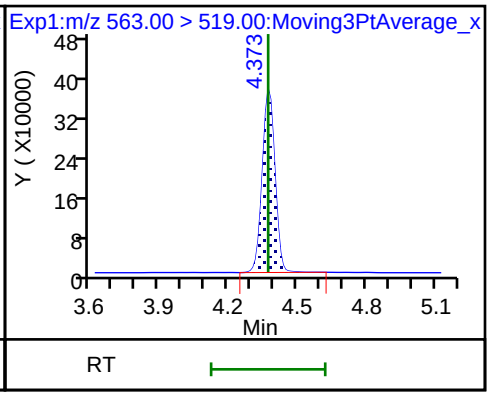


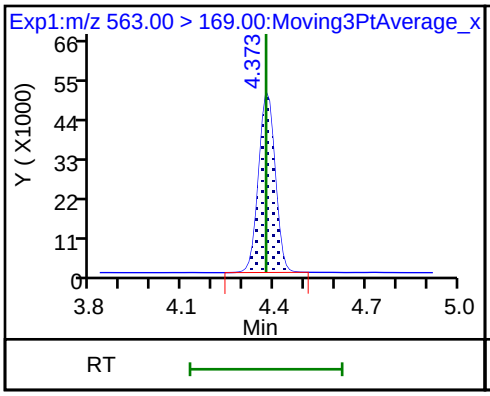
D 30 13C2 PFUnA



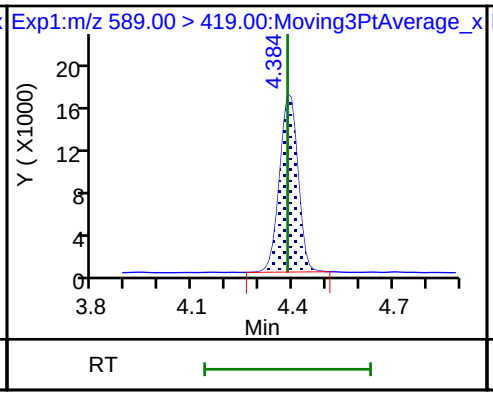
31 Perfluoroundecanoic acid



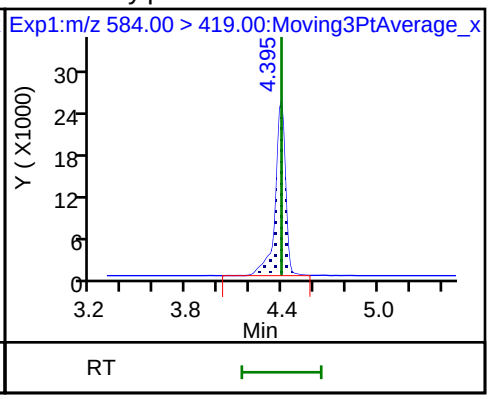
31 Perfluoroundecanoic acid



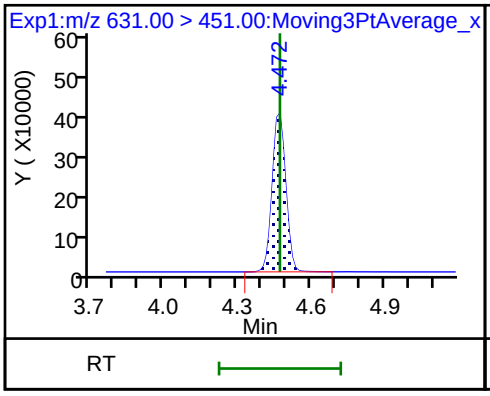
D 32 d5-NEtFOSAA



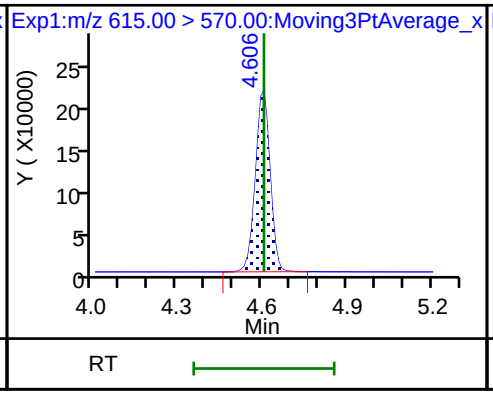
33 N-ethylperfluorooctanesulfonamid



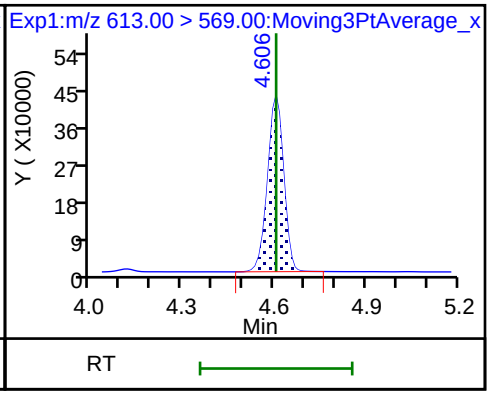
66 11-Chloroeicosafluoro-3-oxaundec



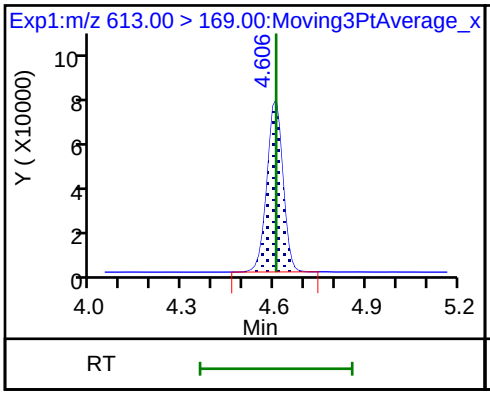
D 36 13C2 PFDoA



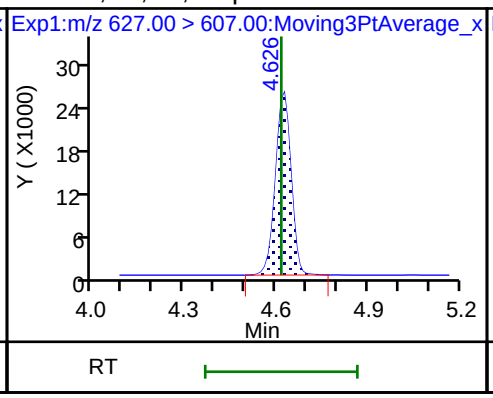
37 Perfluorododecanoic acid



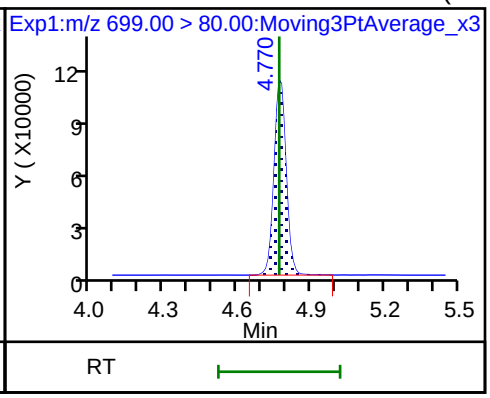
37 Perfluorododecanoic acid



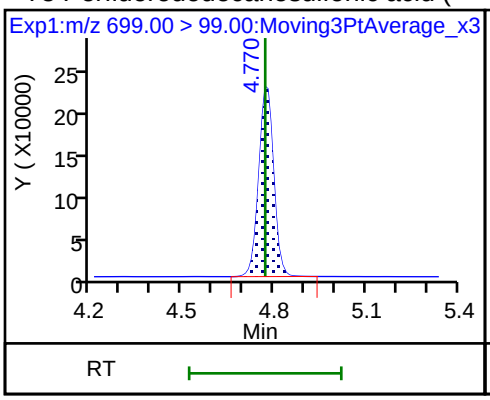
74 1H,1H,2H,2H-perfluorododecanesul



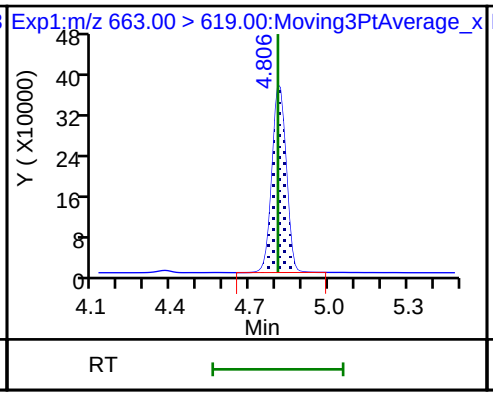
75 Perfluorododecanesulfonic acid (



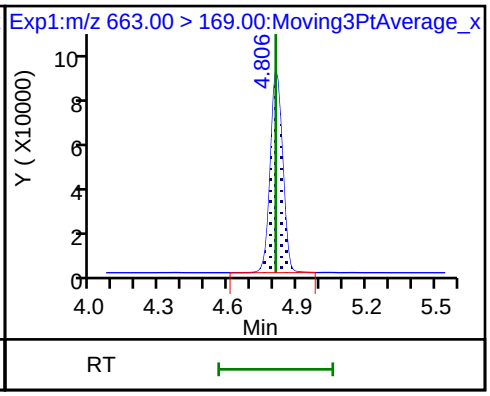
75 Perfluorododecanesulfonic acid (



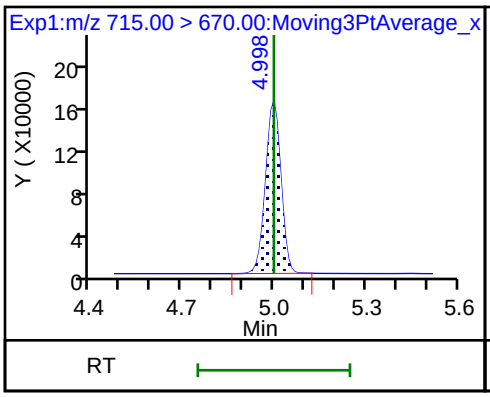
41 Perfluorotridecanoic acid



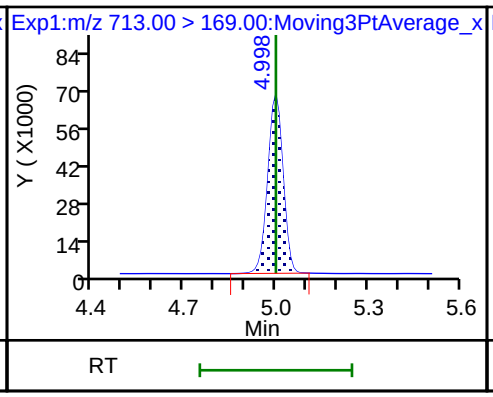
41 Perfluorotridecanoic acid



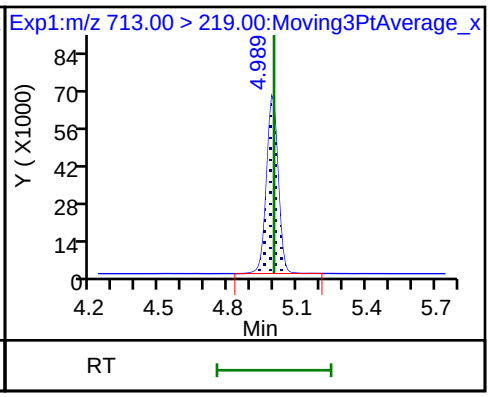
D 43 13C2 PFTeDA



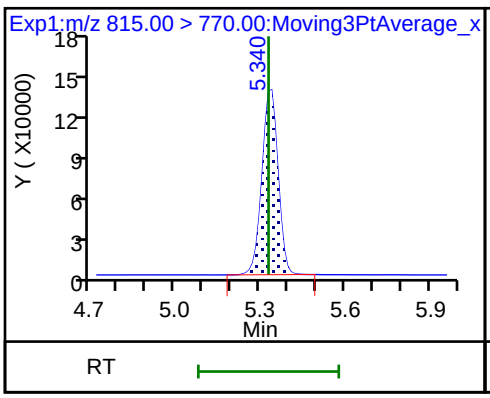
42 Perfluorotetradecanoic acid



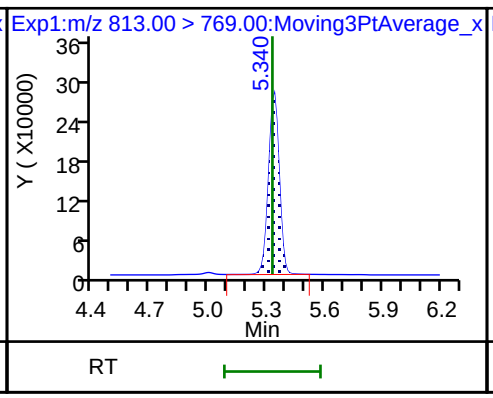
42 Perfluorotetradecanoic acid



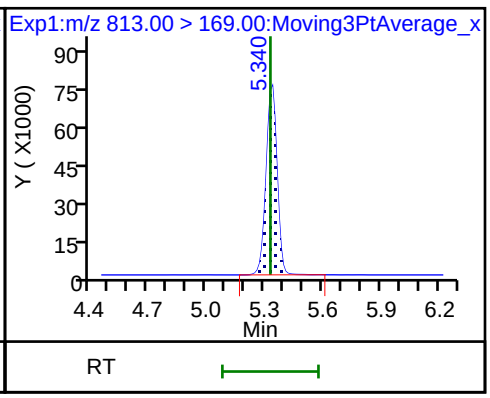
D 44 13C2 PFHxDA



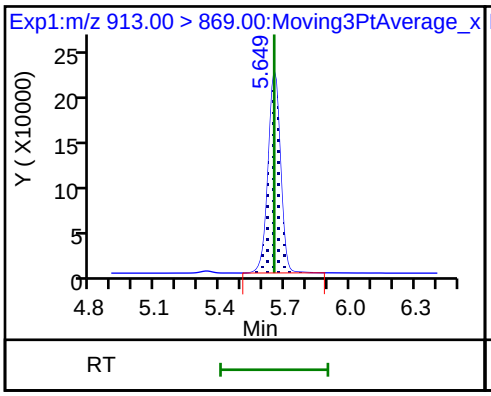
45 Perfluorohexadecanoic acid



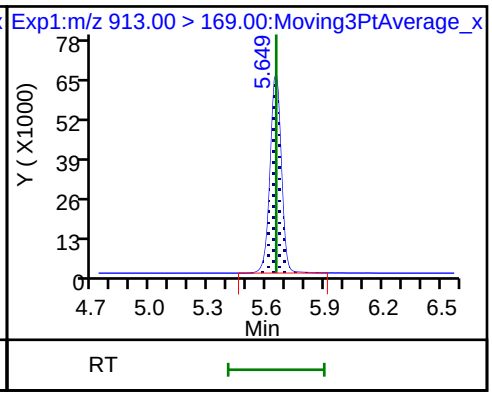
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

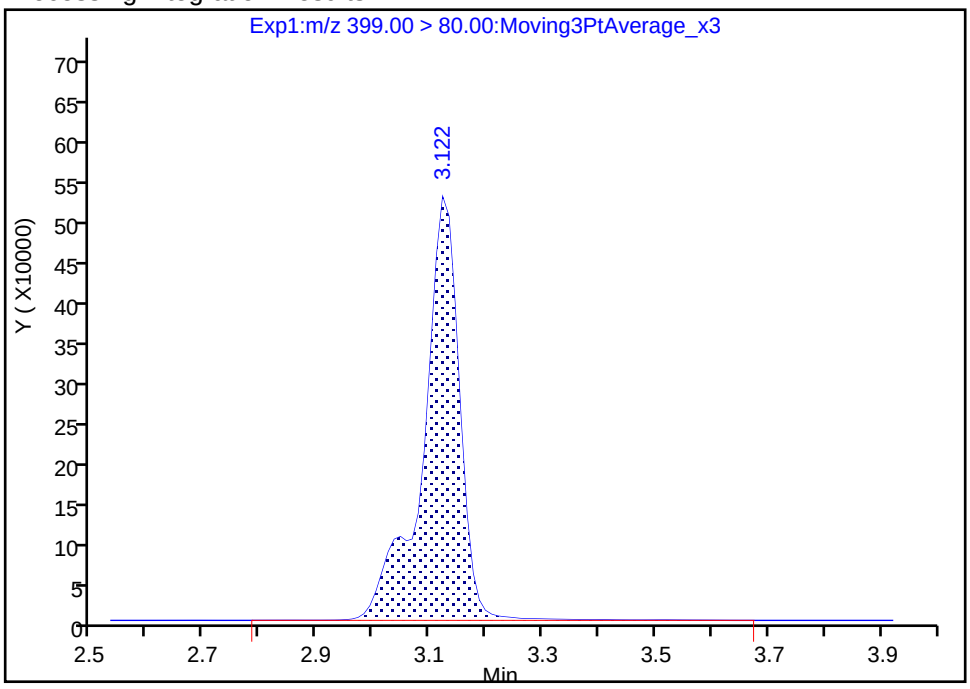
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A16.d				
Injection Date:	26-Feb-2021 14:50:42	Instrument ID:	LC812		
Lims ID:	CCV L5				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

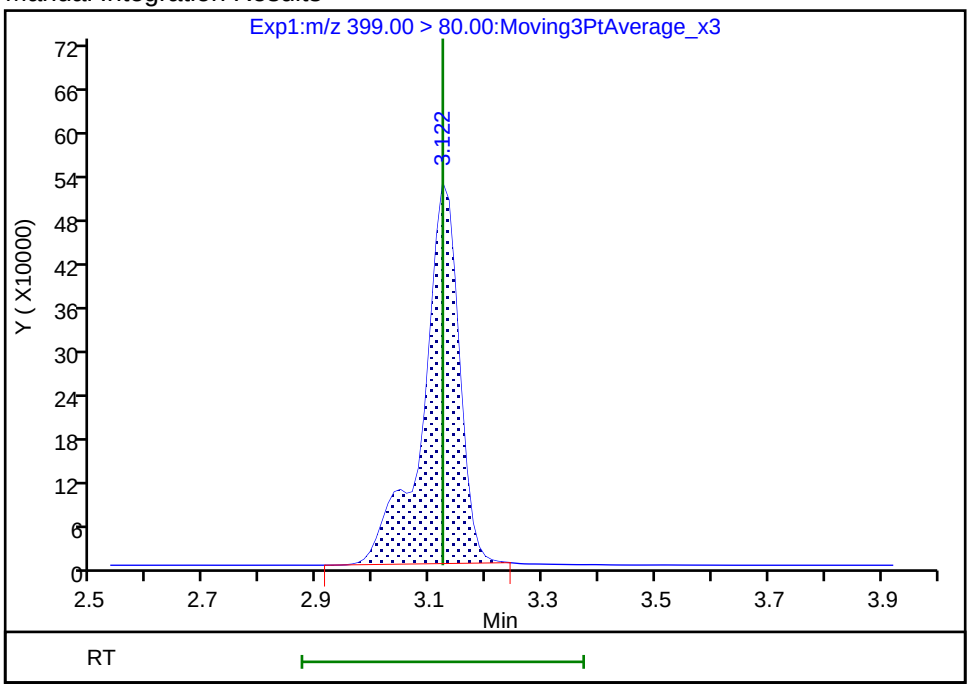
Processing Integration Results

RT: 3.12
Area: 2373900
Amount: 2.240351
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 2320783
Amount: 2.190222
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:34:08

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A16.d

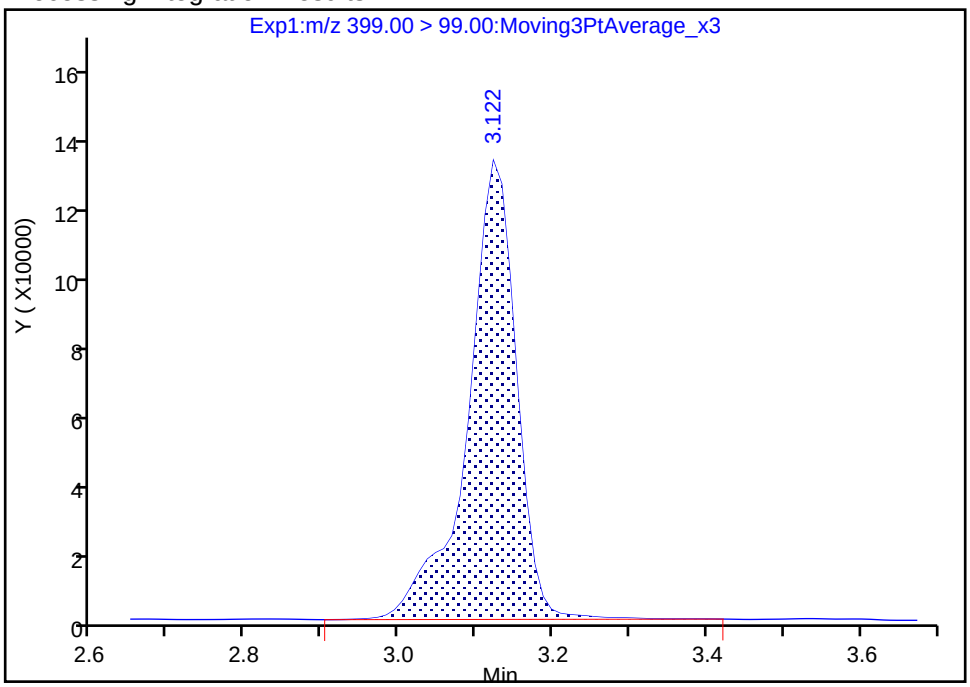
Injection Date:	26-Feb-2021 14:50:42	Instrument ID:	LC812		
Lims ID:	CCV L5				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

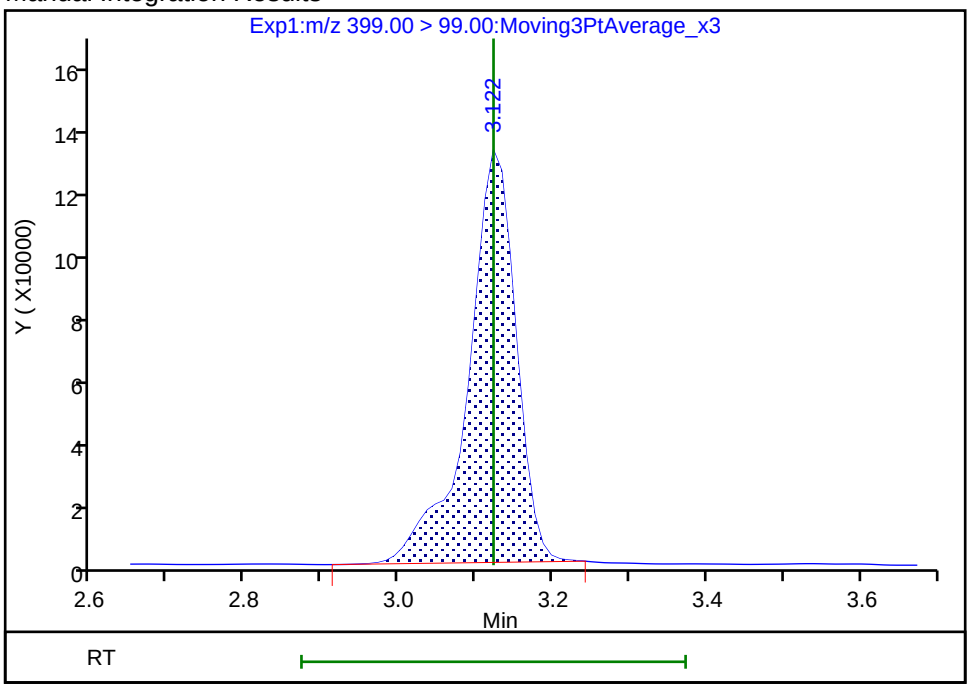
Processing Integration Results

RT: 3.12
Area: 558076
Amount: 2.240351
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 546184
Amount: 2.190222
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:34:12

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

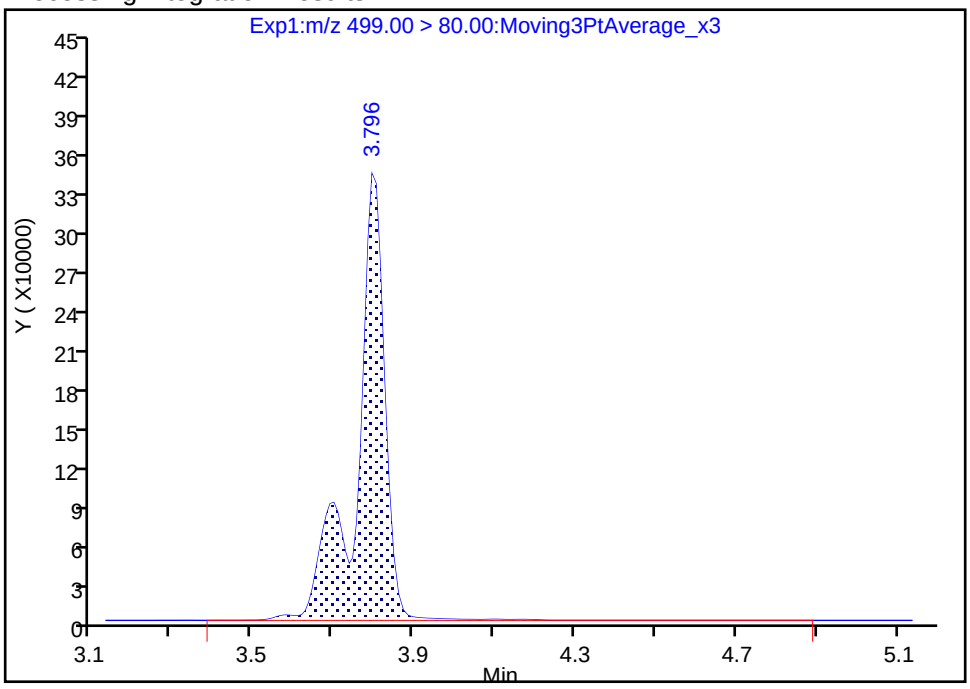
Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A16.d
Injection Date: 26-Feb-2021 14:50:42 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

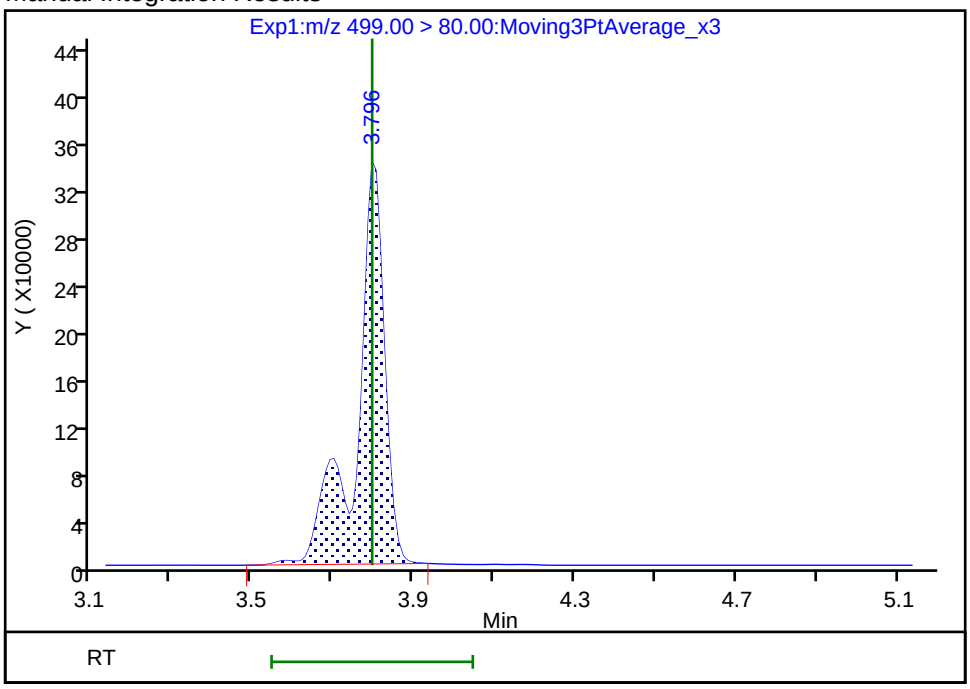
RT: 3.80
Area: 1670413
Amount: 2.232581
Amount Units: ng/ml

Processing Integration Results



RT: 3.80
Area: 1636717
Amount: 2.187545
Amount Units: ng/ml

Manual Integration Results



Reviewer: deannd, 26-Feb-2021 15:34:24
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

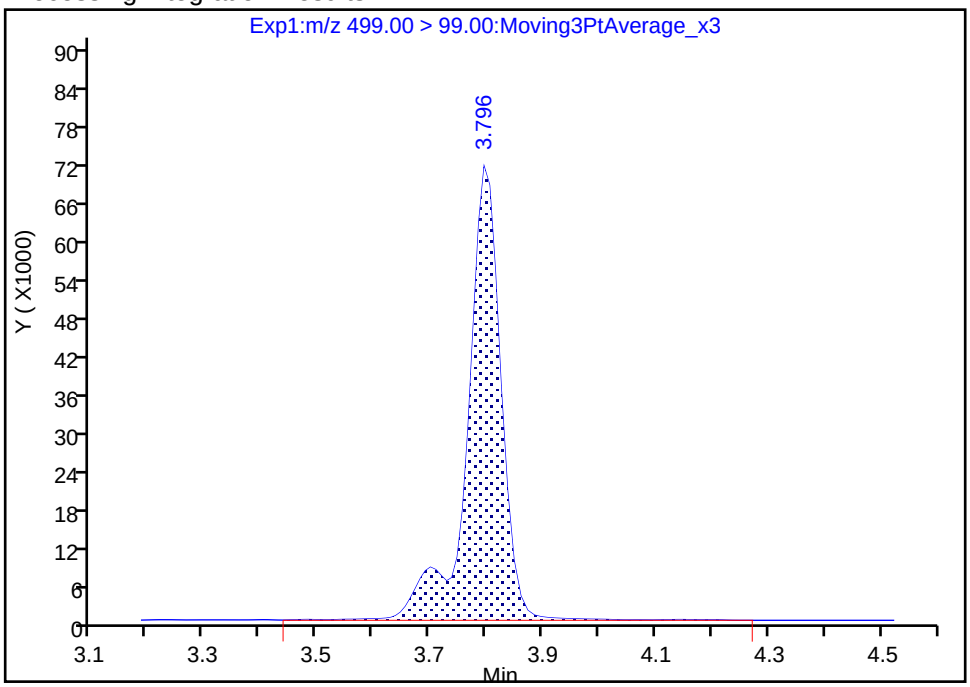
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A16.d				
Injection Date:	26-Feb-2021 14:50:42	Instrument ID:	LC812		
Lims ID:	CCV L5				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

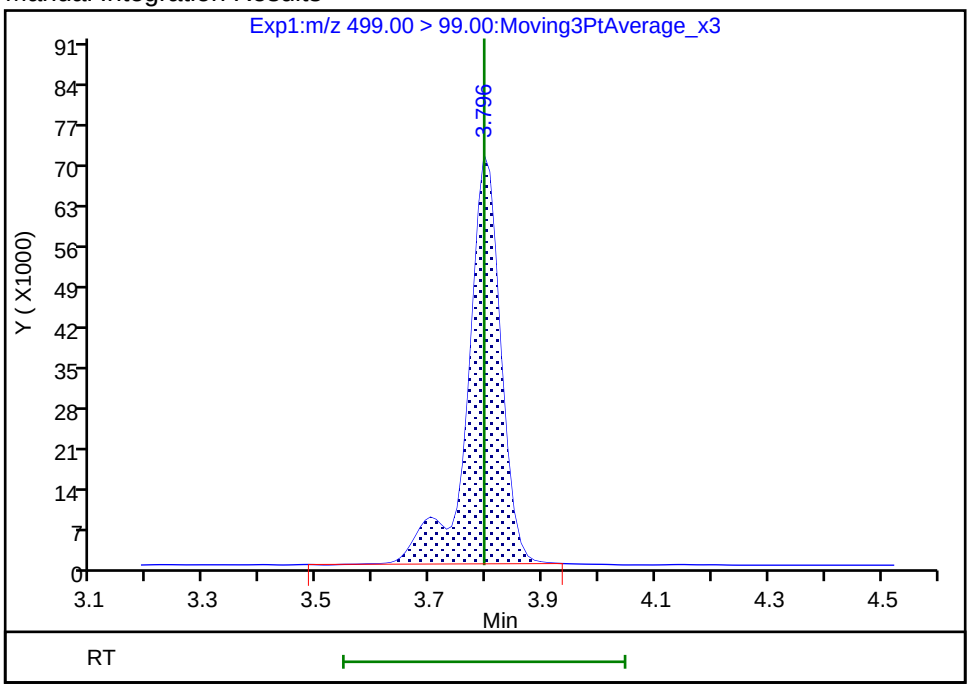
Processing Integration Results

RT: 3.80
Area: 299453
Amount: 2.232581
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 291922
Amount: 2.187545
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:34:28

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-164111/1-A

Matrix: Water Lab File ID: PA210219B02.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: 3535 Date Extracted: 02/18/2021 15:01

Sample wt/vol: 250(mL) Date Analyzed: 02/19/2021 15:57

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 164133 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	5.00	U	5.00	1.13
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.00	U	2.00	1.08
307-24-4	Perfluorohexanoic acid (PFHxA)	2.00	U	2.00	0.83
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.46
335-67-1	Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.98
375-95-1	Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.58
335-76-2	Perfluorodecanoic acid (PFDA)	2.00	U	2.00	0.46
2058-94-8	Perfluoroundecanoic acid (PFUnA)	2.00	U	2.00	0.73
307-55-1	Perfluorododecanoic acid (PFDoA)	2.00	U	2.00	0.46
72629-94-8	Perfluorotridecanoic acid (PFTriA)	2.00	U	2.00	0.43
376-06-7	Perfluorotetradecanoic acid (PFTeA)	2.00	U	2.00	0.59
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.63
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.67
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	2.00	U	2.00	0.39
335-77-3	Perfluorodecanesulfonic acid (PFDS)	2.00	U	2.00	0.48
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	0.87
754-91-6	Perfluorooctanesulfonamide (FOSA)	2.00	U	2.00	0.57
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	5.00	U	5.00	0.79
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	5.00	U	5.00	0.93
27619-97-2	6:2 FTS	5.00	U	5.00	0.72
39108-34-4	8:2 FTS	2.00	U	2.00	0.66

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-164111/1-A

Matrix: Water Lab File ID: PA210219B02.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: 3535 Date Extracted: 02/18/2021 15:01

Sample wt/vol: 250(mL) Date Analyzed: 02/19/2021 15:57

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 164133 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01892	13C4 PFHpA	107		50-150
STL00990	13C4 PFOA	106		50-150
STL00995	13C5 PFNA	101		50-150
STL00992	13C4 PFBA	112		25-150
STL00993	13C2 PFHxA	107		50-150
STL00996	13C2 PFDA	95		50-150
STL00997	13C2 PFUnA	84		50-150
STL00994	18O2 PFHxS	109		50-150
STL00998	13C2 PFDoA	82		50-150
STL00991	13C4 PFOS	100		50-150
STL01056	13C8 FOSA	88		25-150
STL01893	13C5 PFPeA	110		25-150
STL02116	13C2 PFTeDA	80		50-150
STL02118	d3-NMeFOSAA	93		50-150
STL02117	d5-NEtFOSAA	85		50-150
STL02279	M2-6:2 FTS	110		25-150
STL02337	13C3 PFBS	106		50-150
STL02280	M2-8:2 FTS	106		25-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B02.d
Lims ID: MB 200-164111/1-A
Client ID:
Sample Type: MB
Inject. Date: 19-Feb-2021 15:57:03 ALS Bottle#: 17 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: MB 200-164111/1-A
Misc. Info.: 200-0044899-002 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 23-Feb-2021 11:35:09 Calib Date: 22-Dec-2020 13:29:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1628

First Level Reviewer: khanphomeea Date: 22-Feb-2021 10:49:00
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.082	2.082	0.0	0.596	1529538	1.40		112	12420	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.082	2.082	0.0	1.000	21947	0.0179			4.7	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.413	2.400	0.013	0.691	1083962	1.37		110	3652	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.400	2.400	0.0	0.995	7506	0.007817			0.4	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.426	2.426	0.0	0.695	1276861	1.23		106	251259	M
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.426	2.426	0.0	1.000	7708	0.006203	Target=2.21		21.2	
298.90 > 99.00	2.426	2.426	0.0	1.000	3265		2.36(1.11-3.32)		2.4	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.734	2.722	0.012	0.783	106883	1.23		106	148	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.734	2.722	0.012	1.000	516	0.003074			10.0	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.770	2.758	0.012	0.793	1109449	1.34		107	4088	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.770	2.758	0.012	1.000	6496	0.006700	Target=12.83		1.9	M
313.00 > 119.00	2.770	2.758	0.012	1.000	999		6.50(6.42-19.25)		1.8	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.770	2.758	0.012	0.884	3538	0.003201	Target=3.35		13.4	
349.00 > 99.00	2.770	2.758	0.012	0.884	951		3.72(1.67-5.02)		2.1	M
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.880	2.868	0.012	1.000	1873	0.0144			0.4	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										M
332.10 > 287.00	2.880	2.868	0.012	0.825	117715	0.8074		64.6	866	M
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.132	3.122	0.010	1.000	6218	0.006265	Target=4.15		30.2	M
399.00 > 99.00	3.121	3.122	-0.001	0.997	1521		4.09(2.08-6.23)		1.9	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.132	3.122	0.010	0.897	995822	1.29		109	2160	
D 9 13C4 PFHpA										
367.00 > 322.00	3.132	3.122	0.010	0.897	1062072	1.34		107	2879	
10 Perfluoroheptanoic acid										RM
363.00 > 319.00	3.132	3.122	0.010	1.000	6176	0.006655	Target=3.66		2.0	R
363.00 > 169.00	3.132	3.122	0.010	1.000	939		6.58(1.83-5.49)		2.1	M
77 DONA										M
377.00 > 251.00	3.175	3.164	0.011	0.835	7739	0.004357	Target=2.43		10.4	M
377.00 > 85.00	3.175	3.164	0.011	0.835	3653		2.12(1.22-3.65)		5.9	M
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.483	3.465	0.018	0.916	2399	0.003349	Target=5.95		13.7	M
449.00 > 99.00	3.483	3.465	0.018	0.916	535		4.48(2.98-8.93)		1.9	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.483	3.474	0.009	0.997	126475	1.31		110	502	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.492	3.474	0.018	1.003	733	0.006187			10.4	M
D 14 13C4 PFOA										
417.00 > 372.00	3.492	3.483	0.009	1.000	1068216	1.33		106	2475	
* 62 13C2 PFOA										
415.00 > 370.00	3.492	3.483	0.009		1017083	1.25			915	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.492	3.483	0.009	1.000	4748	0.005126	Target=2.58		1.8	M
413.00 > 169.00	3.492	3.483	0.009	1.000	2953		1.61(1.29-3.87)		7.4	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.804	3.794	0.010	1.000	3875	0.006351	Target=5.65		4.8	M
499.00 > 99.00	3.655	3.794	-0.139	0.961	1052		3.68(2.82-8.47)		1.3	M
D 18 13C4 PFOS										
503.00 > 80.00	3.804	3.794	0.010	1.089	633946	1.19		99.9	2169	
D 19 13C5 PFNA										
468.00 > 423.00	3.824	3.814	0.010	1.095	899681	1.27		101	3780	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.824	3.814	0.010	1.000	4716	0.005920	Target=7.44		1.2	M
463.00 > 169.00	3.847	3.814	0.033	1.006	560		8.42(3.72-11.16)		5.4	M
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.964	3.955	0.009	1.042	2015	0.002960			21.6	
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.093	4.071	0.022	1.076	1586	0.003484	Target=2.54		16.1	M
549.00 > 99.00	4.104	4.071	0.033	1.079	757		2.10(1.27-3.81)		3.0	M
D 23 13C2 PFDA										
515.00 > 470.00	4.115	4.104	0.011	1.178	805389	1.19		94.9	3015	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.126	4.115	0.011	1.182	125092	1.26		106	444	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.126	4.115	0.011	1.000	304	0.004248			6.2	M
D 21 13C8 FOSA										
506.00 > 78.00	4.225	4.215	0.010	1.210	1094441	1.10		87.7	4101	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.225	4.215	0.010	1.000	4717	0.005376			24.5	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.257	4.246	0.011	1.219	57157	1.16		92.8	919	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.257	4.246	0.011	1.000	295	0.007279			2.2	
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.347	4.336	0.011	1.143	1501	0.004136	Target=2.80		11.4	M
599.00 > 99.00	4.336	4.336	0.0	1.140	535		2.81(1.40-4.19)		2.9	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.380	4.358	0.022	1.254	584640	1.05		83.8	2023	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.369	4.358	0.011	0.997	1985	0.004162	Target=8.12		1.6	M
563.00 > 169.00	4.380	4.358	0.022	1.000	190		10.45(4.06-12.18)		2.7	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.391	4.369	0.022	1.257	50523	1.06		84.9	484	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.402	4.380	0.022	1.003	272	0.007270			4.6	M
66 11-Chloroeicosafluoro-3-oxaundec										M
631.00 > 451.00	4.467	4.456	0.011	1.174	1511	0.002139			27.9	M
D 36 13C2 PFDoA										
615.00 > 570.00	4.601	4.591	0.010	1.318	602599	1.02		81.9	2945	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.601	4.591	0.010	1.000	3005	0.005668	Target=6.91		1.1	
613.00 > 169.00	4.601	4.591	0.010	1.000	314		9.57(3.45-10.36)		3.4	M
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.622	4.601	0.021	1.120	31	0.000841			1.9	M
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.766	4.748	0.018	1.253	221	0.001655	Target=0.51		1.8	M
699.00 > 99.00	4.757	4.748	0.009	1.250	746		0.30(0.26-0.77)		1.7	M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.802	4.784	0.018	1.043	1932	0.004490	Target=4.39		1.1	
663.00 > 169.00	4.811	4.784	0.027	1.045	452		4.27(2.20-6.59)		5.4	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.986	4.966	0.020	1.428	435066	1.00		79.9	2316	
42 Perfluorotetradecanoic acid										RM
713.00 > 169.00	4.986	4.966	0.020	1.000	439	0.006801	Target=1.06		13.1	RM
713.00 > 219.00	4.976	4.966	0.010	0.998	267		1.64(0.53-1.59)		8.5	M
D 44 13C2 PFHxDA										
815.00 > 770.00	5.315	5.293	0.022	1.522	435085	0.9351		74.8	2213	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.327	5.293	0.034	1.002	5384	0.001355	Target=3.84		2.7	
813.00 > 169.00	5.315	5.293	0.022	1.000	1400		3.85(1.92-5.76)		43.0	

Report Date: 23-Feb-2021 11:35:11 Chrom Revision: 2.3 05-Feb-2021 00:13:28
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B02.d
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.619	5.592	0.027	1.057	1270	0.004055	Target=3.92		2.0	
913.00 > 169.00	5.619	5.592	0.027	1.057	433		2.93(1.96-5.88)		14.3	

QC Flag Legend

Processing Flags
R - Failed Signal Ratio Test
Review Flags
M - Manually Integrated

Report Date: 23-Feb-2021 11:35:11 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B02.d

Injection Date: 19-Feb-2021 15:57:03 Instrument ID: LC812

Lims ID: MB 200-164111/1-A

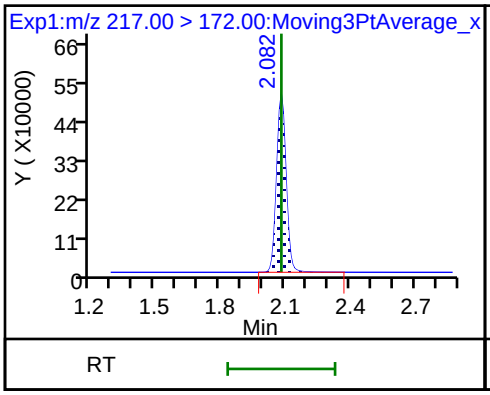
Client ID:

Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 2

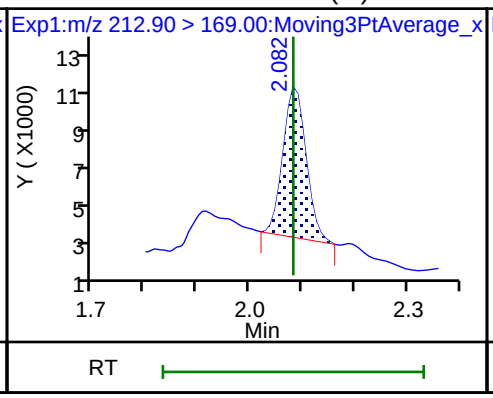
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

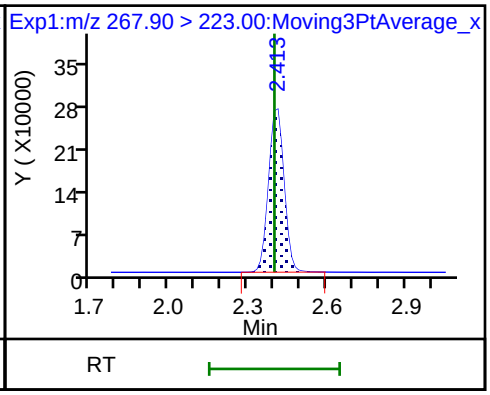
D 1 13C4 PFBA



2 Perfluorobutanoic acid (M)



D 3 13C5 PFPeA



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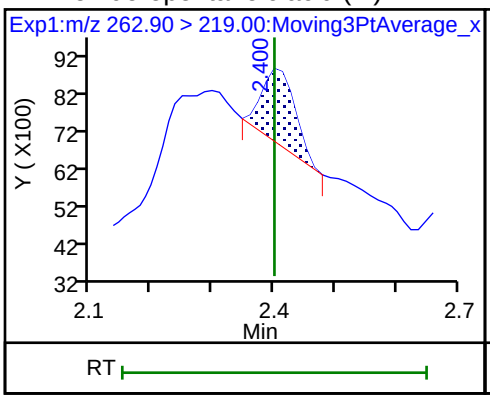
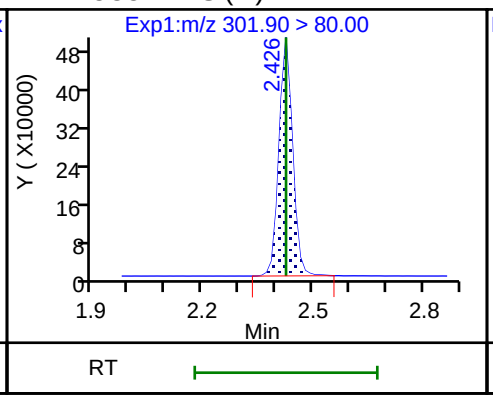
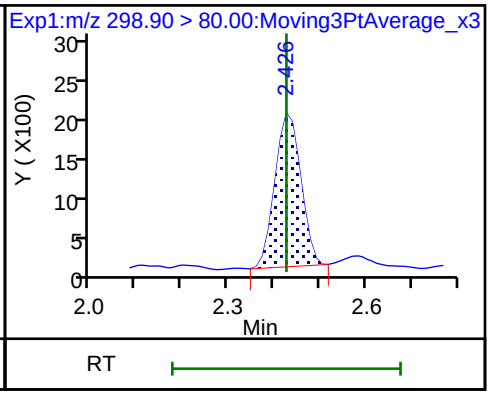


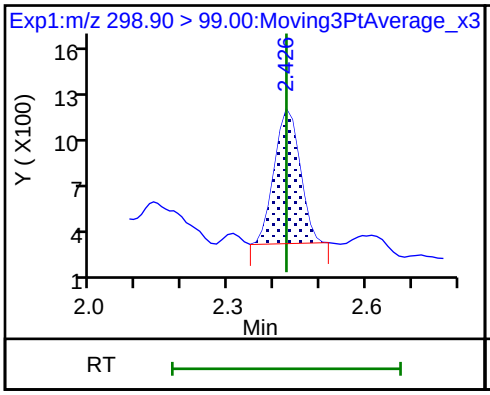
D 47 13C3 PFBS (M)



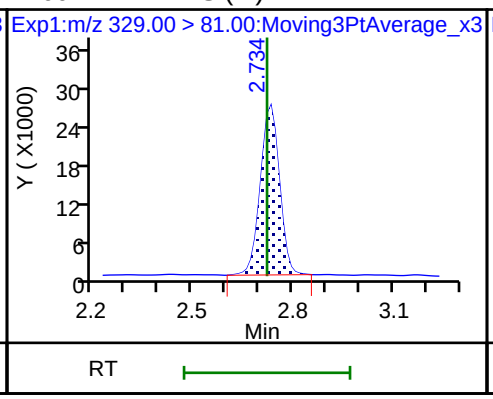
5 Perfluorobutanesulfonic acid



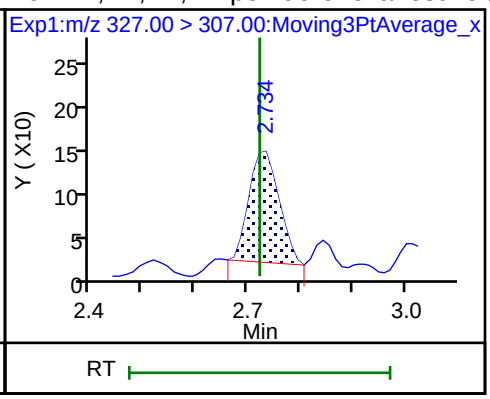
5 Perfluorobutanesulfonic acid



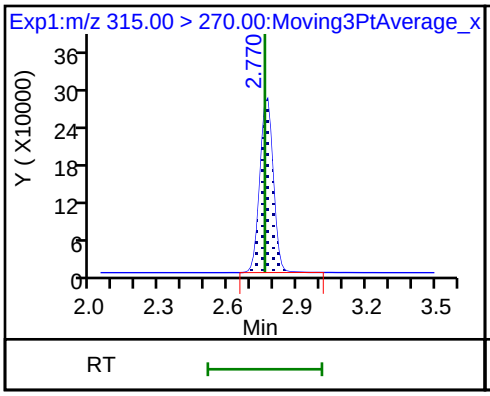
D 60 M2-4:2 FTS (M)



61 1H,1H,2H,2H-perfluorohexanesulfo (M)



D 7 13C2 PFHxA



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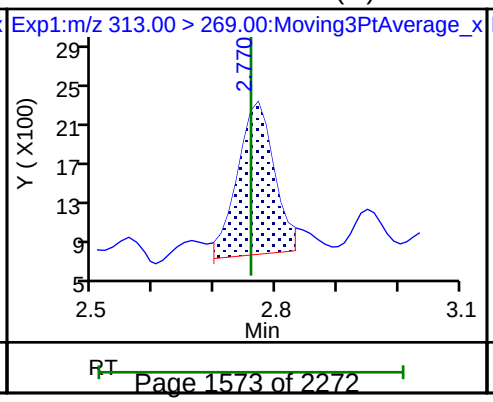
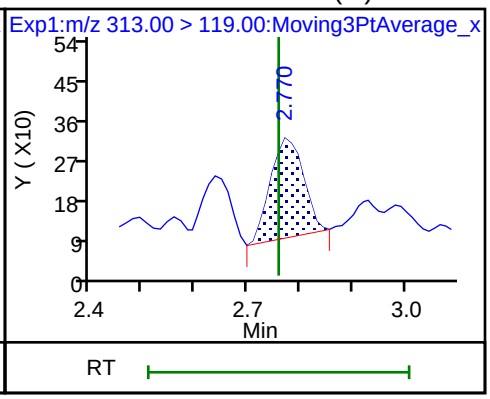
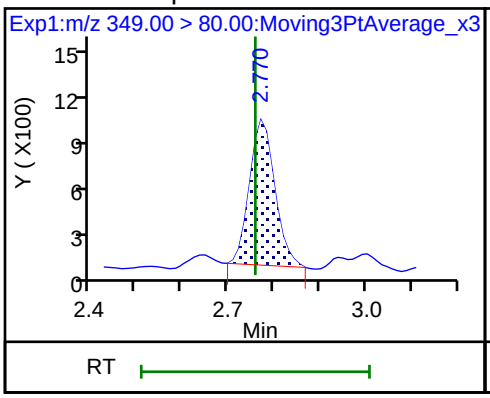


6 Perfluorohexanoic acid (M)



70 Perfluoropentanesulfonic acid



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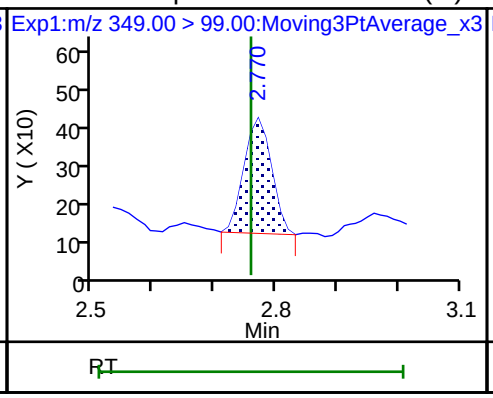
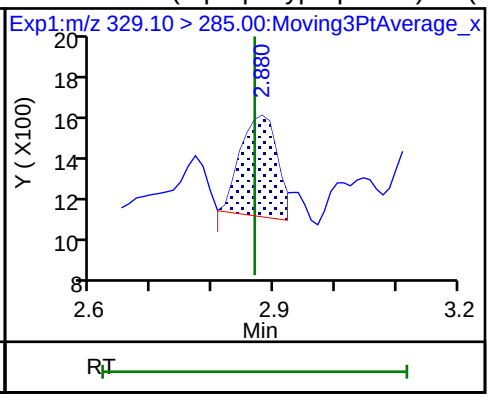
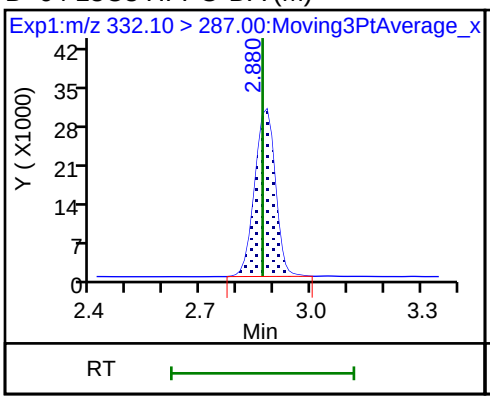


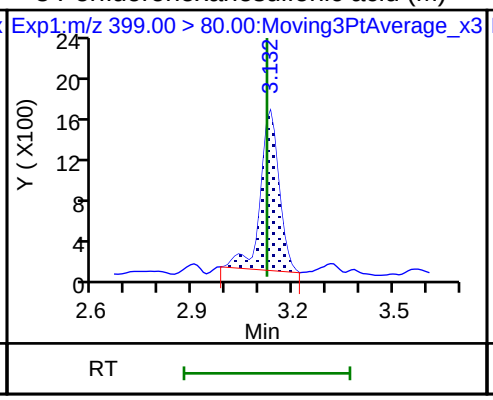
67 Perfluoro(2-propoxypropanoic) ac (M)



D 64 13C3 HFPO-DA (M)



8 Perfluorohexanesulfonic acid (M)



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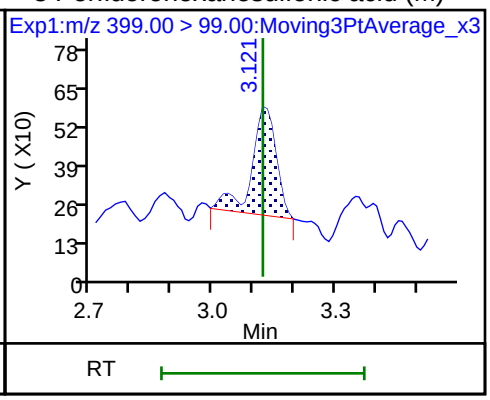
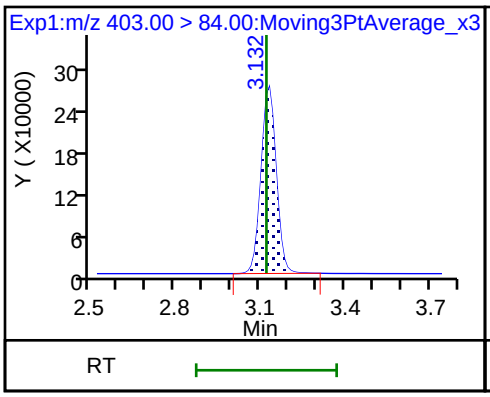


D 11 18O2 PFHxS



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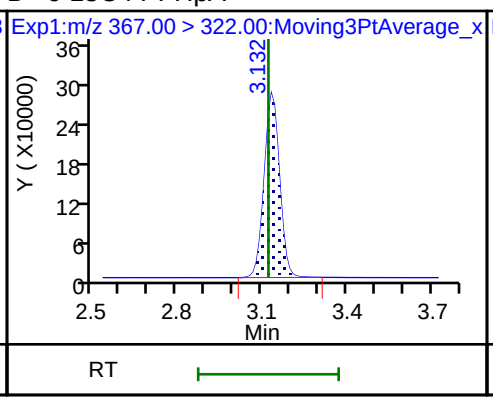
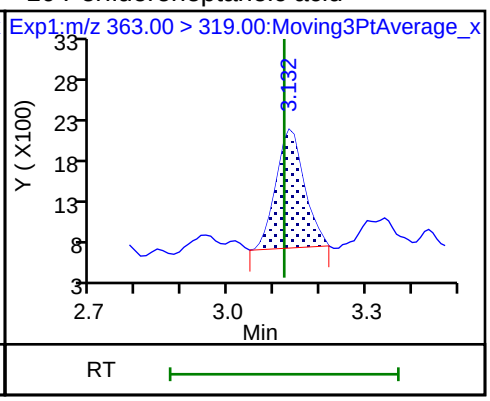


10 Perfluoroheptanoic acid



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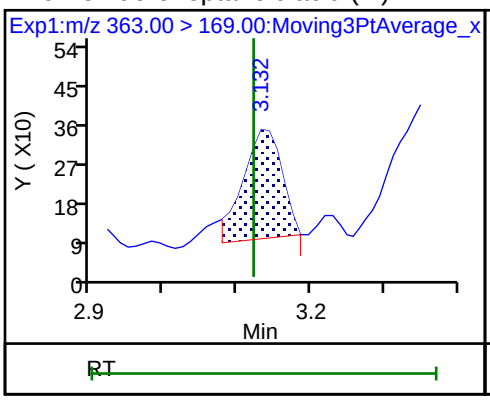
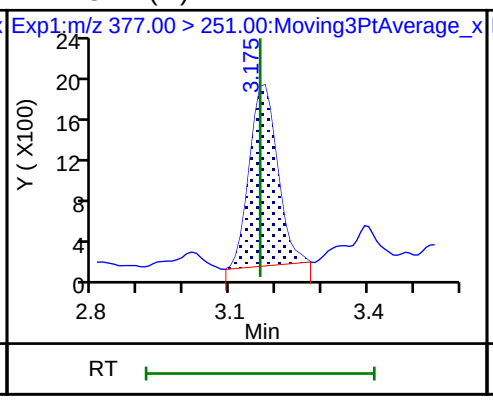


77 DONA (M)



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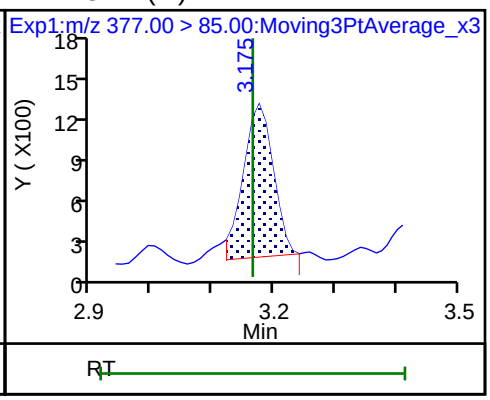

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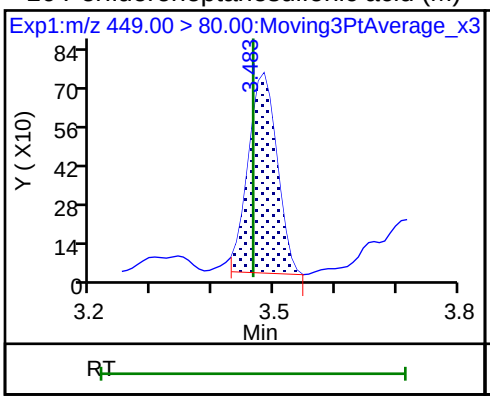

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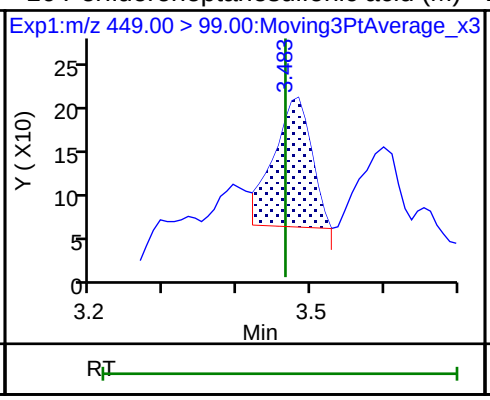
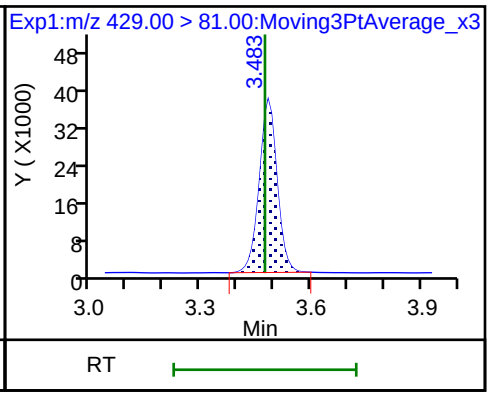
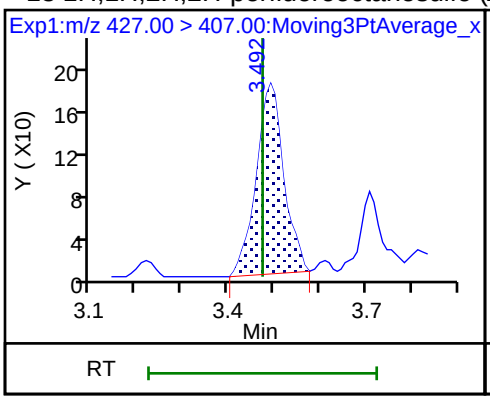


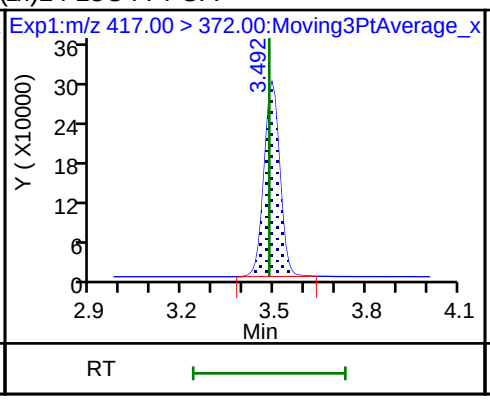
D 12 M2-6:2 FTS



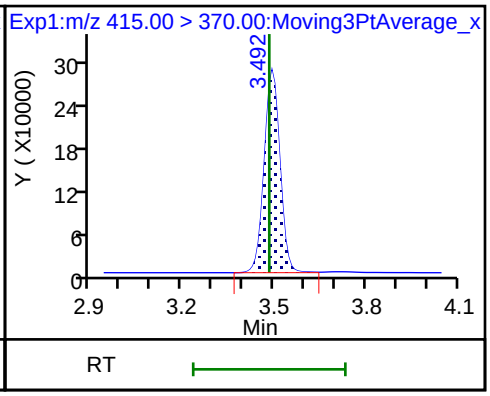
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



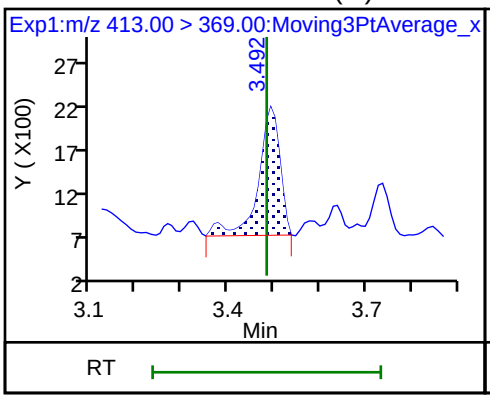
D 14 13C4 PFOA



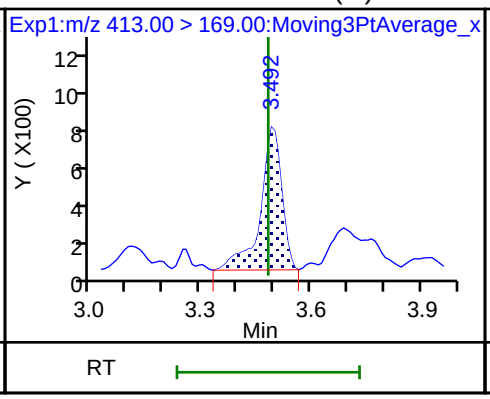
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)



15 Perfluorooctanoic acid (M)



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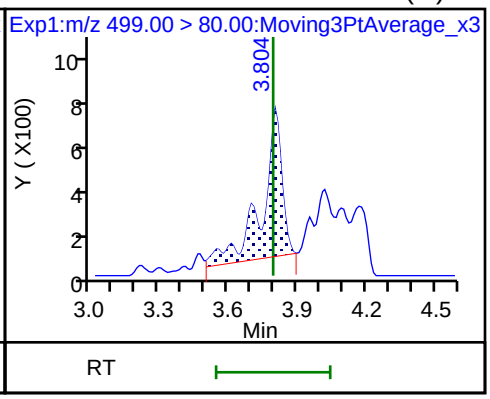

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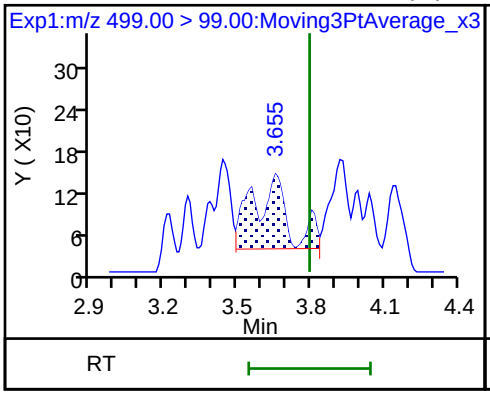
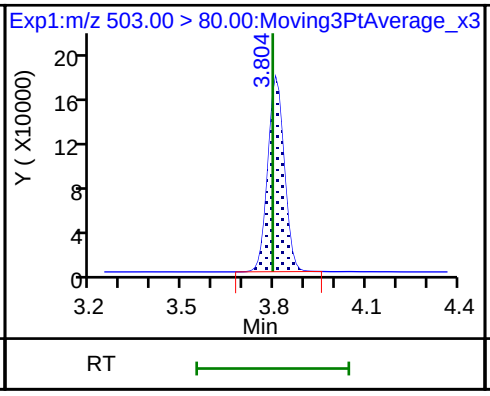


D 18 13C4 PFOS



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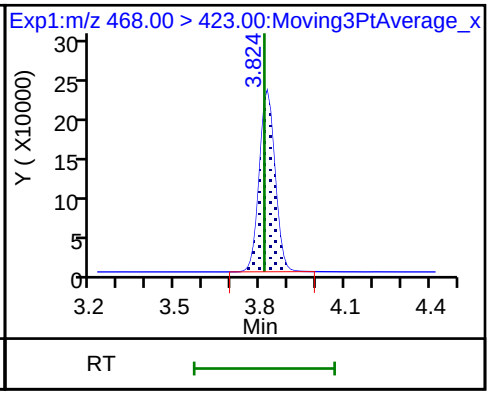
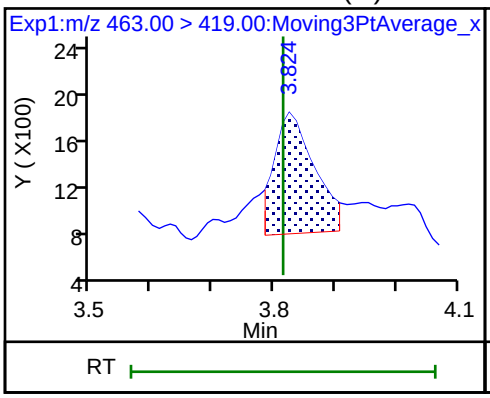


20 Perfluorononanoic acid (M)



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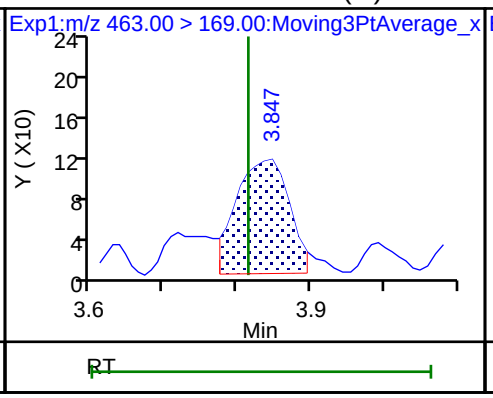
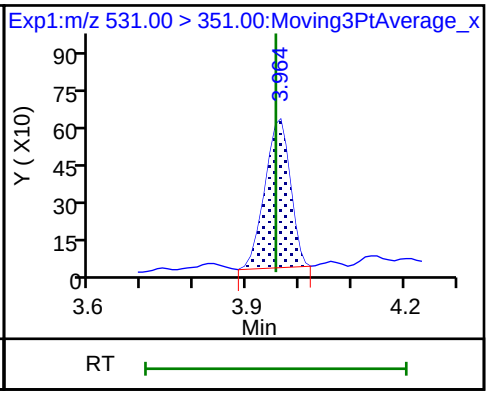
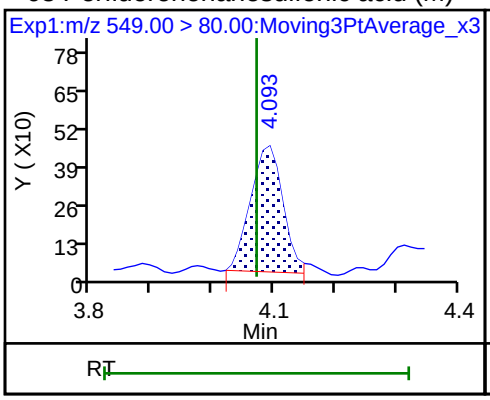


69 9-Chlorohexadecafluoro-3-oxanona



68 Perfluorononanesulfonic acid (M)



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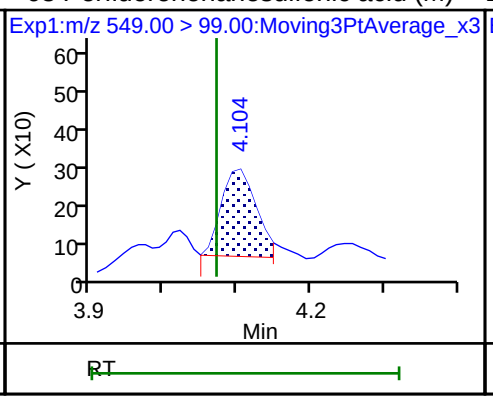
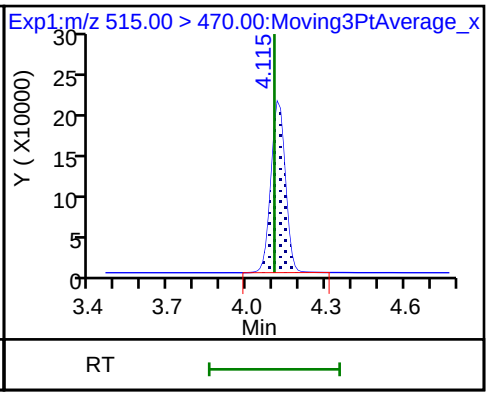
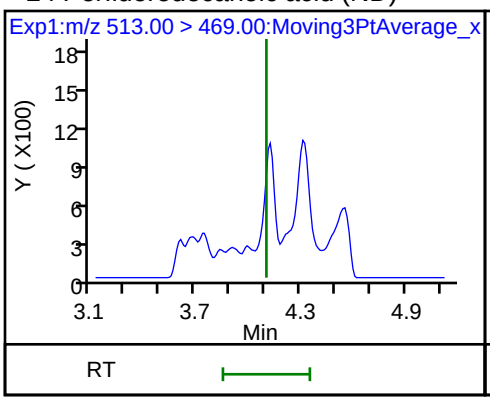


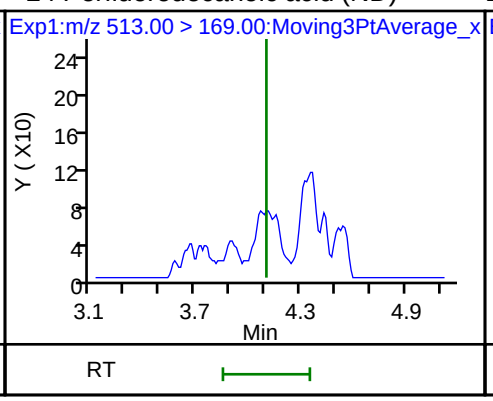
D 23 13C2 PFDA



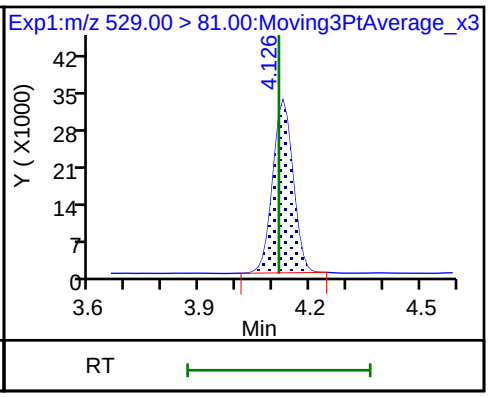
24 Perfluorodecanoic acid (ND)



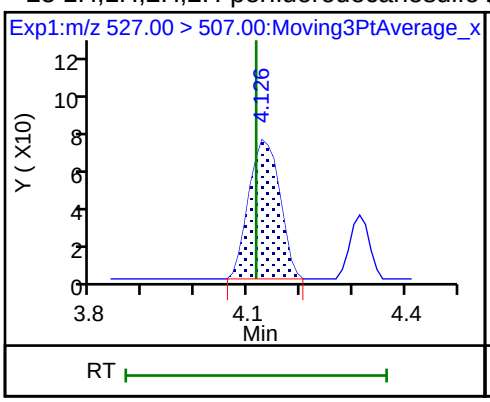
24 Perfluorodecanoic acid (ND)



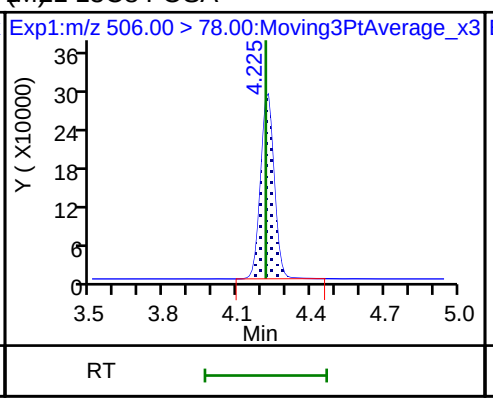
D 26 M2-8:2 FTS



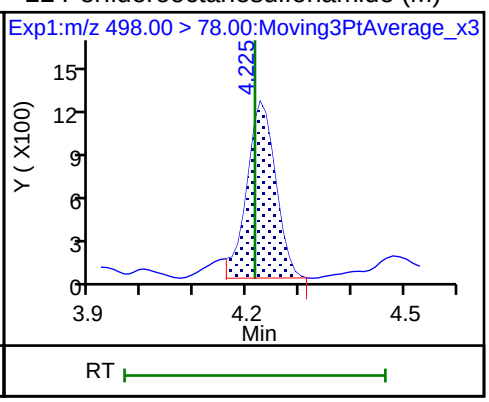
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



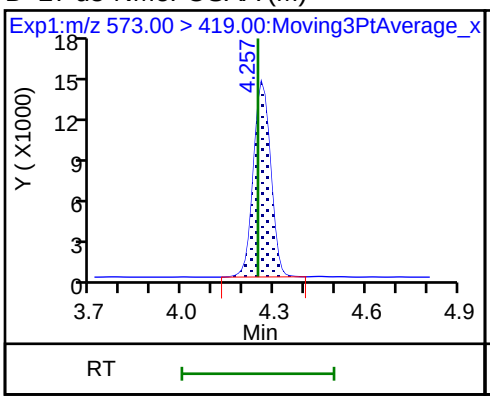
D 21 13C8 FOSA



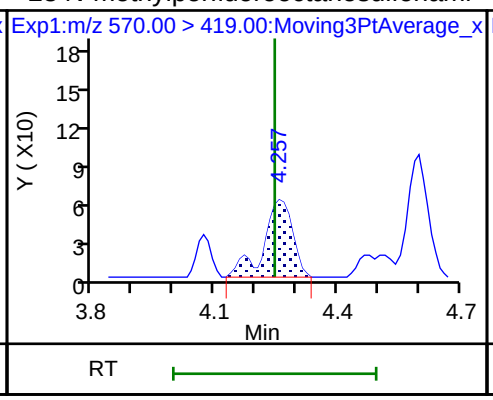
22 Perfluorooctanesulfonamide (M)



D 27 d3-NMeFOSAA (M)



28 N-methylperfluorooctanesulfonami



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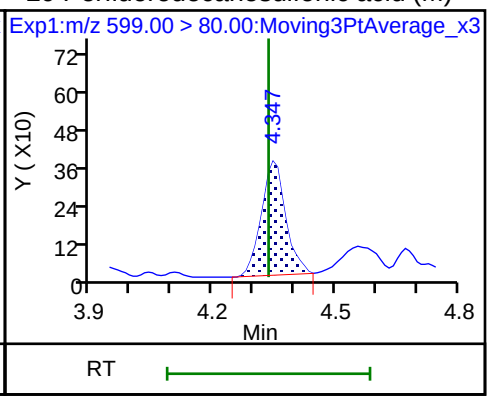
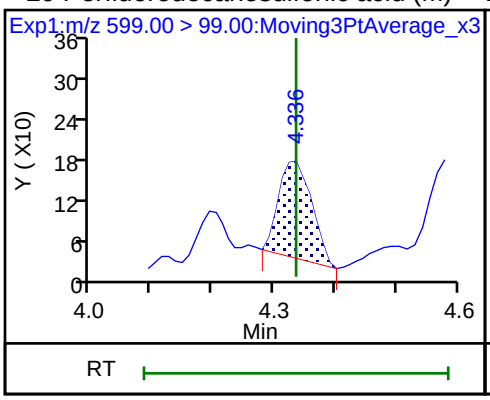
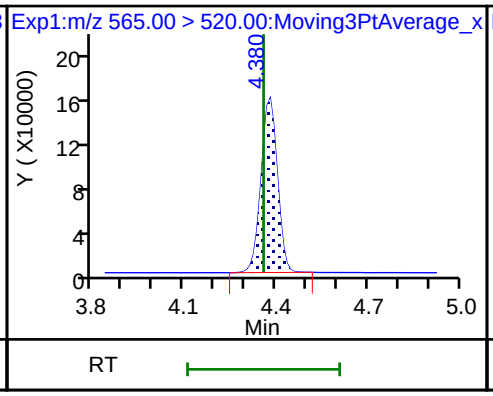


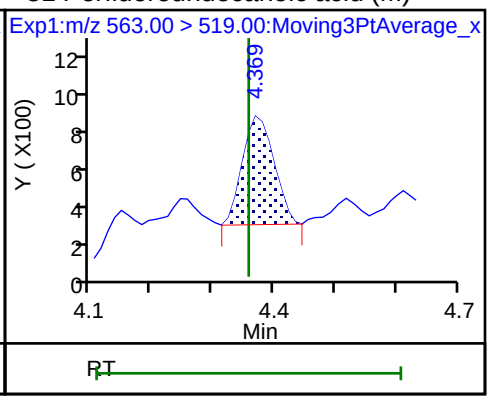
29 Perfluorodecanesulfonic acid (M)



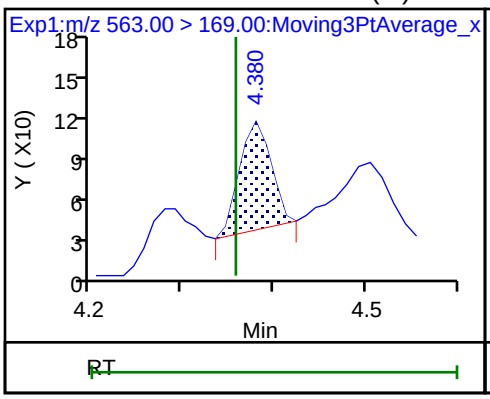
D 30 13C2 PFUnA



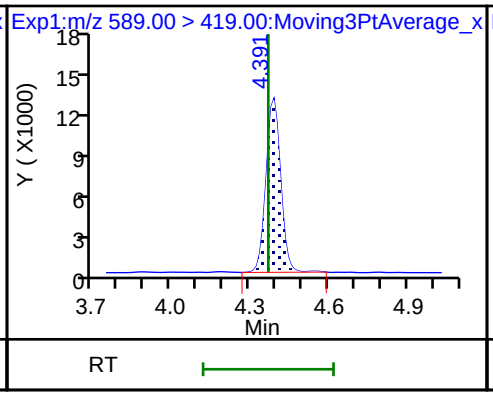
31 Perfluoroundecanoic acid (M)



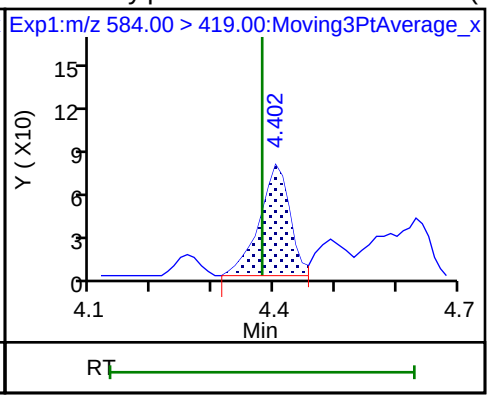
31 Perfluoroundecanoic acid (M)



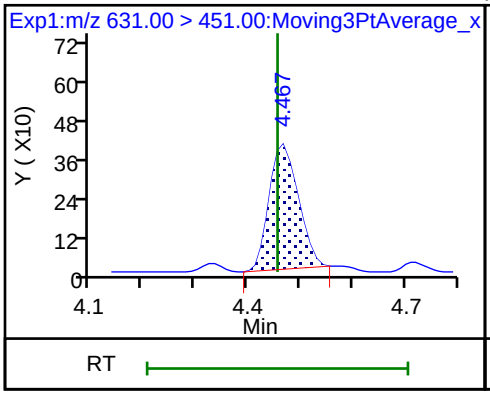
D 32 d5-NEtFOSAA



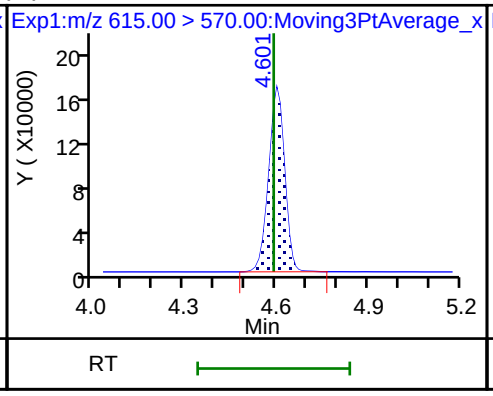
33 N-ethylperfluorooctanesulfonamid (M)



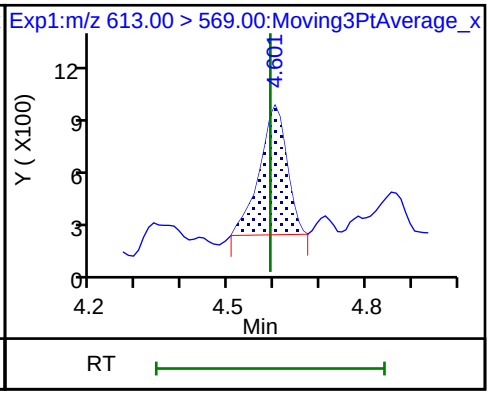
66 11-Chloroeicosafluoro-3-oxaundec (M)



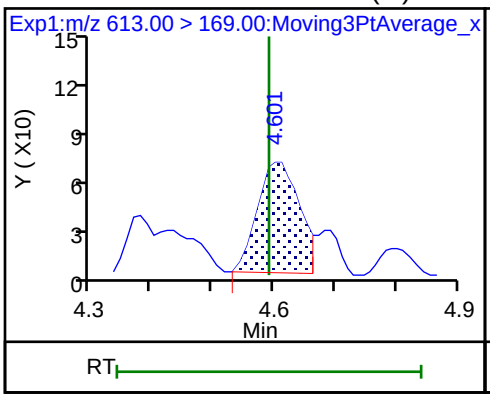
D 36 13C2 PFDoA



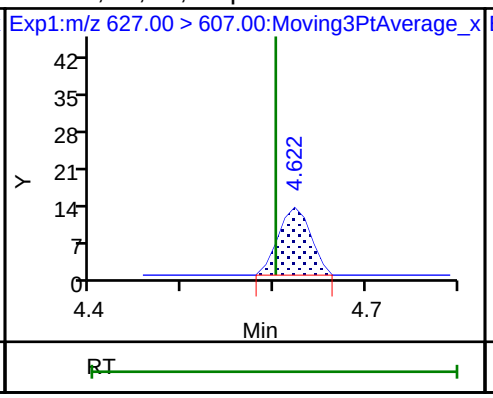
37 Perfluorododecanoic acid



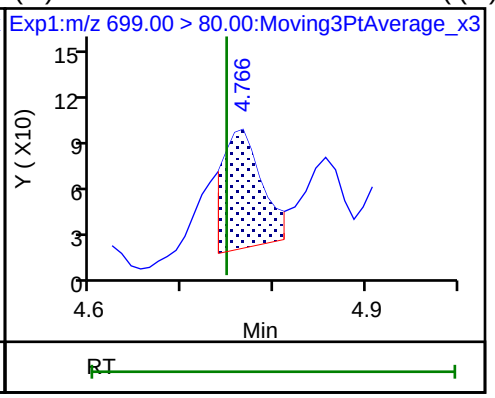
37 Perfluorododecanoic acid (M)



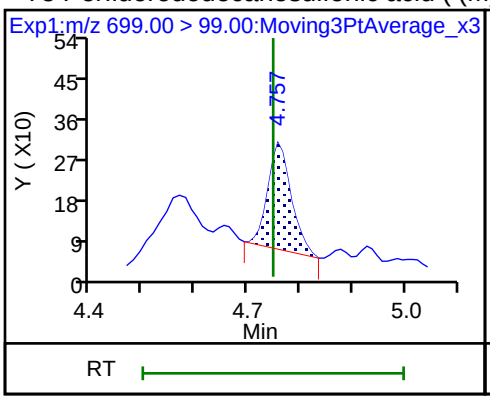
74 1H,1H,2H,2H-perfluorododecanesul (M)



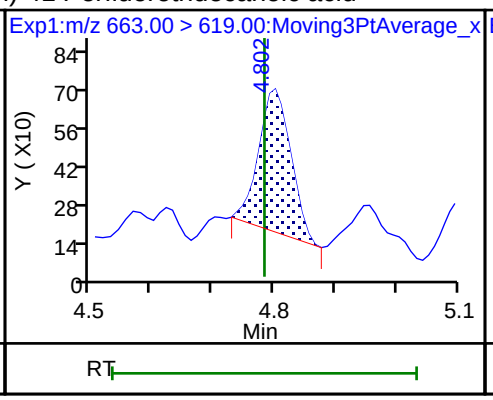
75 Perfluorododecanesulfonic acid ((M)



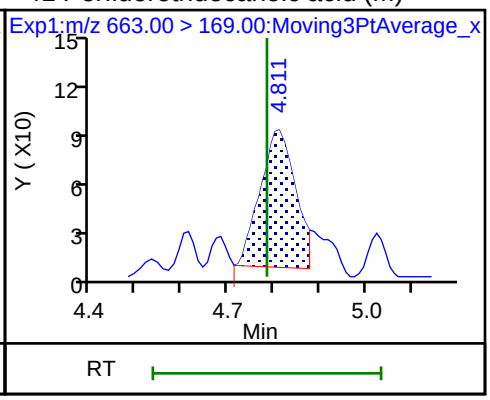
75 Perfluorododecanesulfonic acid ((M)



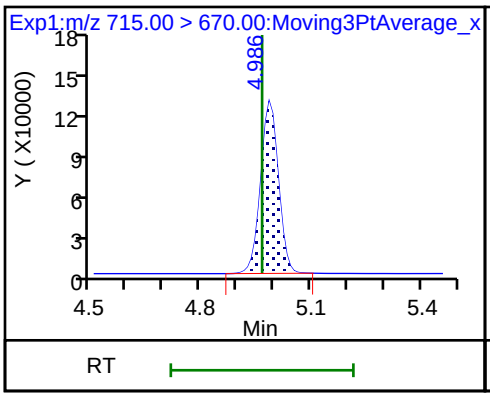
41 Perfluorotridecanoic acid



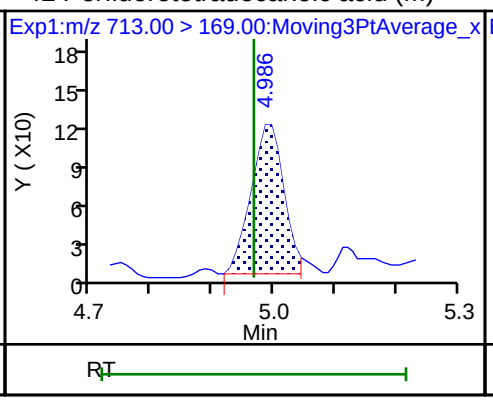
41 Perfluorotridecanoic acid (M)



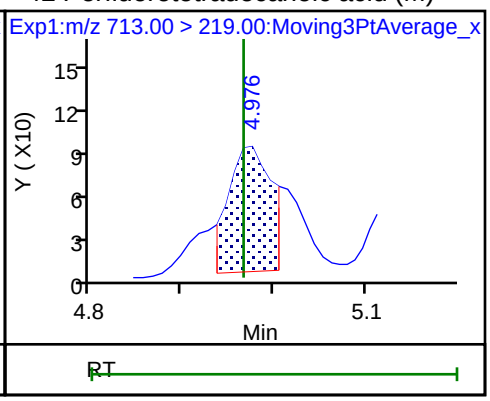
D 43 13C2 PFTeDA



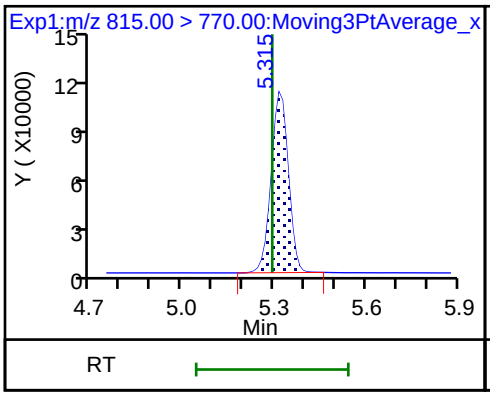
42 Perfluorotetradecanoic acid (M)



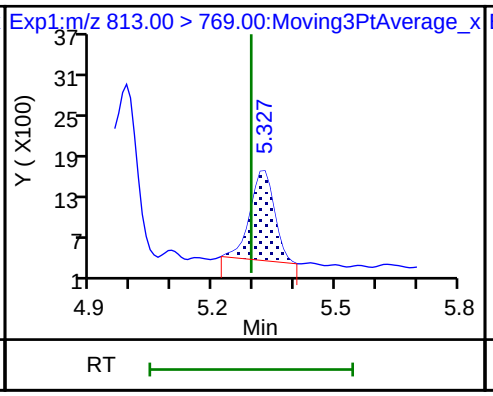
42 Perfluorotetradecanoic acid (M)



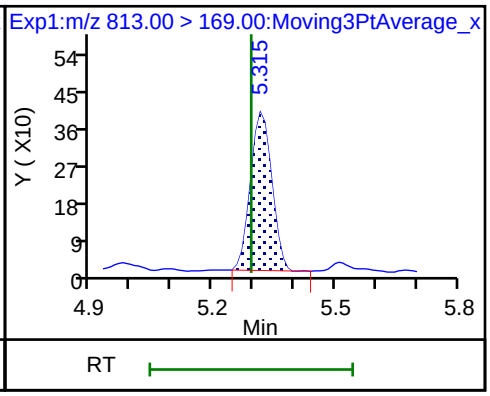
D 44 13C2 PFHxDA



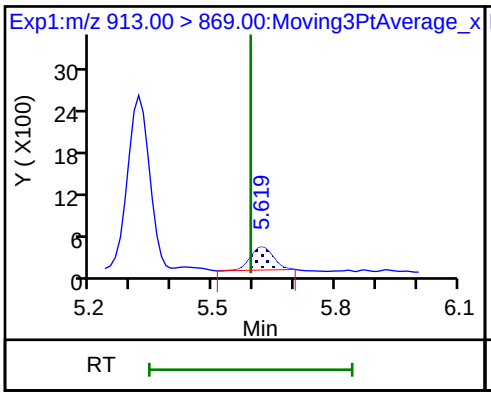
45 Perfluorohexadecanoic acid



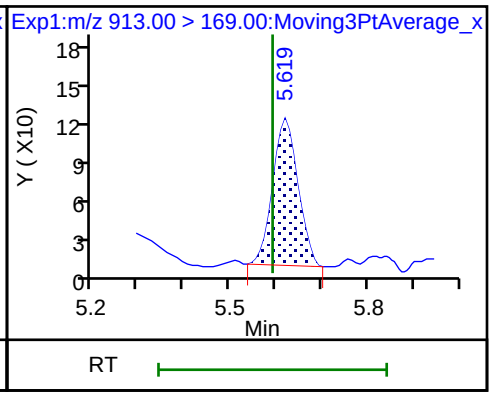
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

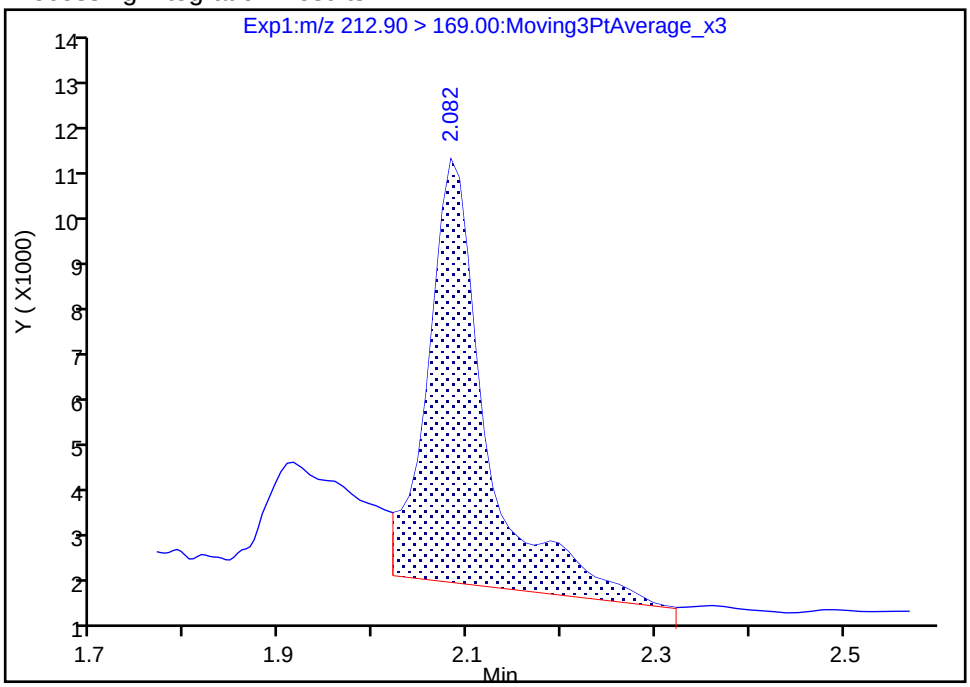
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B02.d
Injection Date: 19-Feb-2021 15:57:03 Instrument ID: LC812
Lims ID: MB 200-164111/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

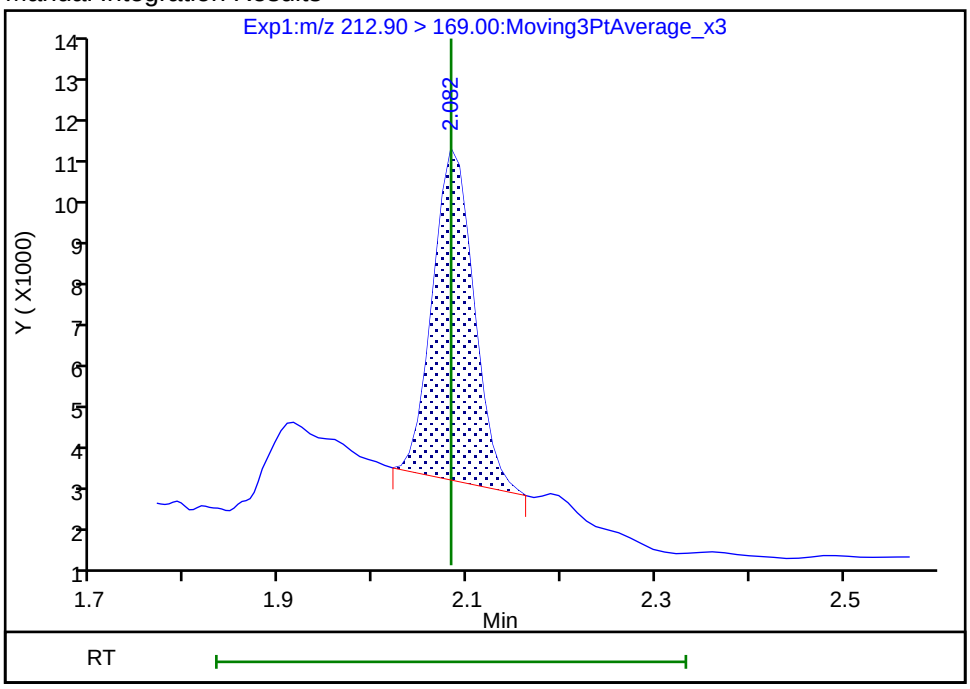
Processing Integration Results

RT: 2.08
Area: 35948
Amount: 0.029319
Amount Units: ng/ml



Manual Integration Results

RT: 2.08
Area: 21947
Amount: 0.017900
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:42:54
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

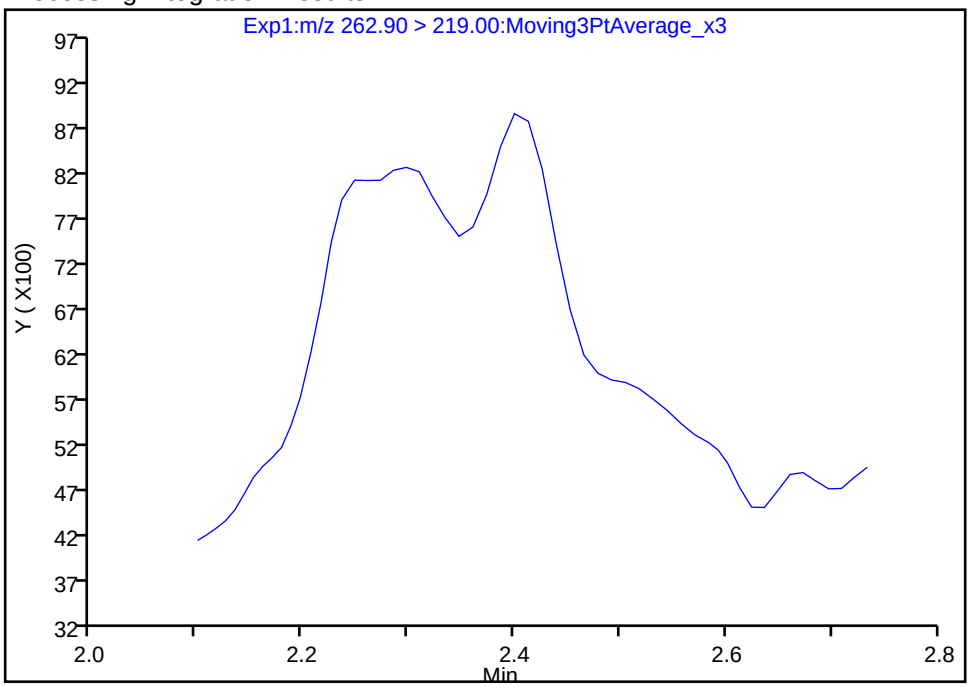
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B02.d
Injection Date: 19-Feb-2021 15:57:03 Instrument ID: LC812
Lims ID: MB 200-164111/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

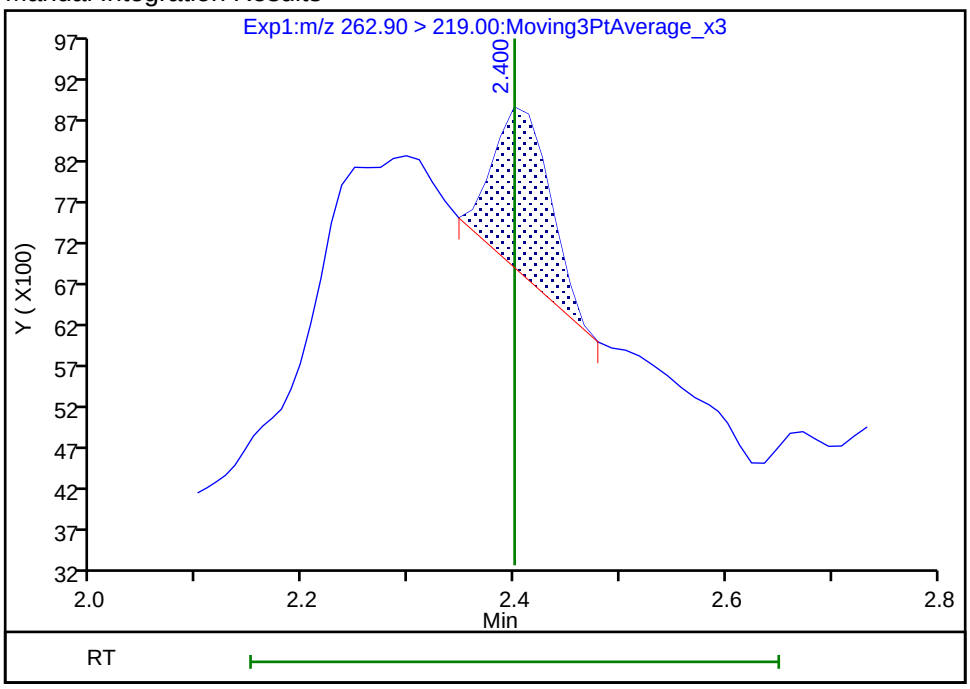
Not Detected
Expected RT: 2.40

Processing Integration Results



Manual Integration Results

RT: 2.40
Area: 7506
Amount: 0.007817
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:43:00
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

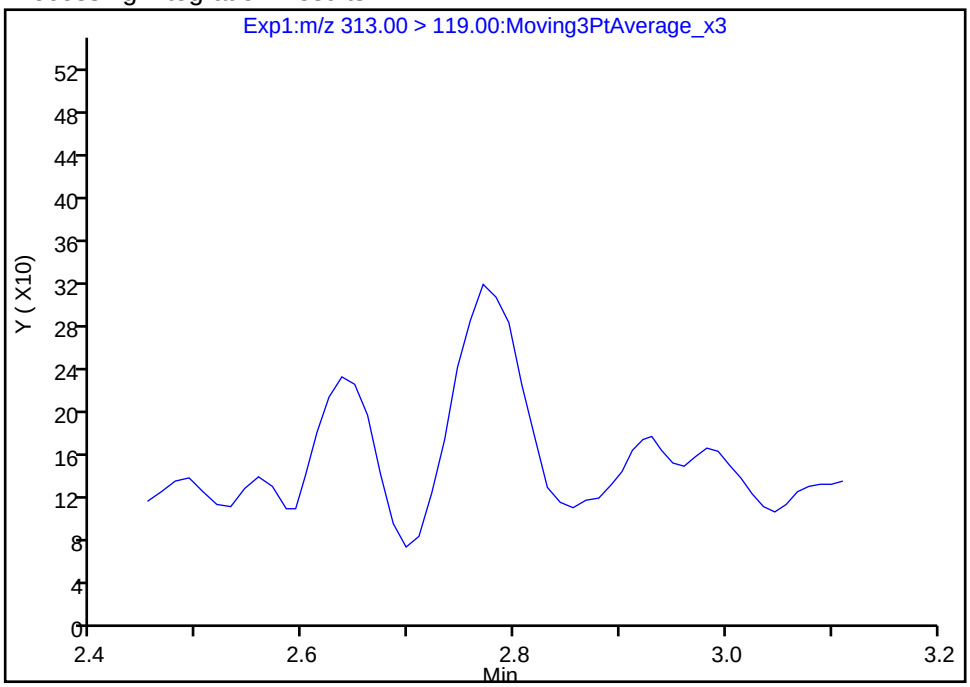
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B02.d				
Injection Date:	19-Feb-2021 15:57:03	Instrument ID:	LC812		
Lims ID:	MB 200-164111/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

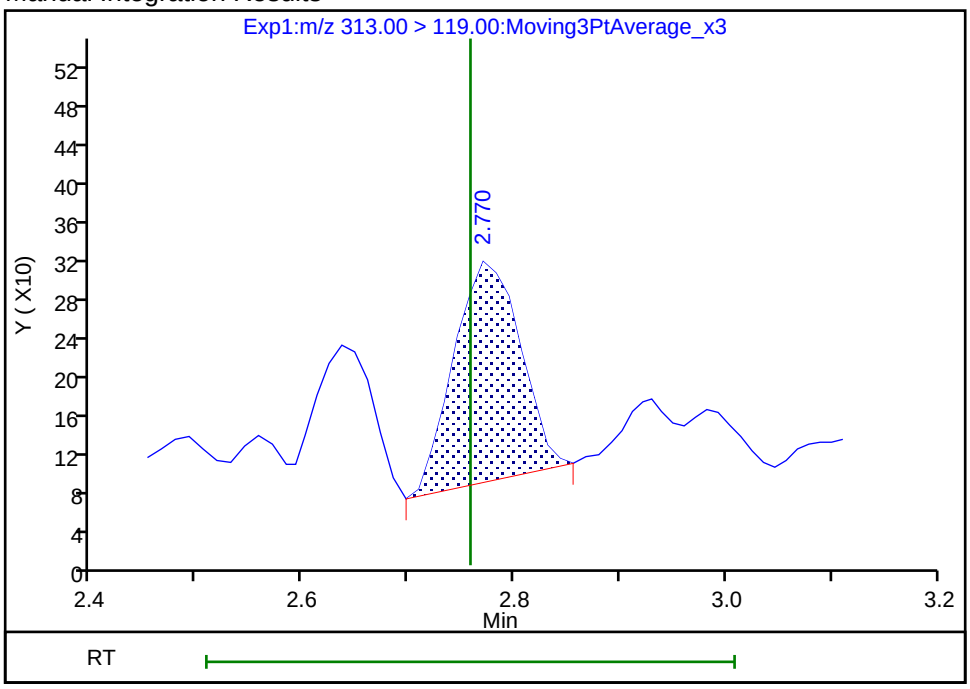
Not Detected
Expected RT: 2.76

Processing Integration Results



Manual Integration Results

RT: 2.77
Area: 999
Amount: 0.006700
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:43:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

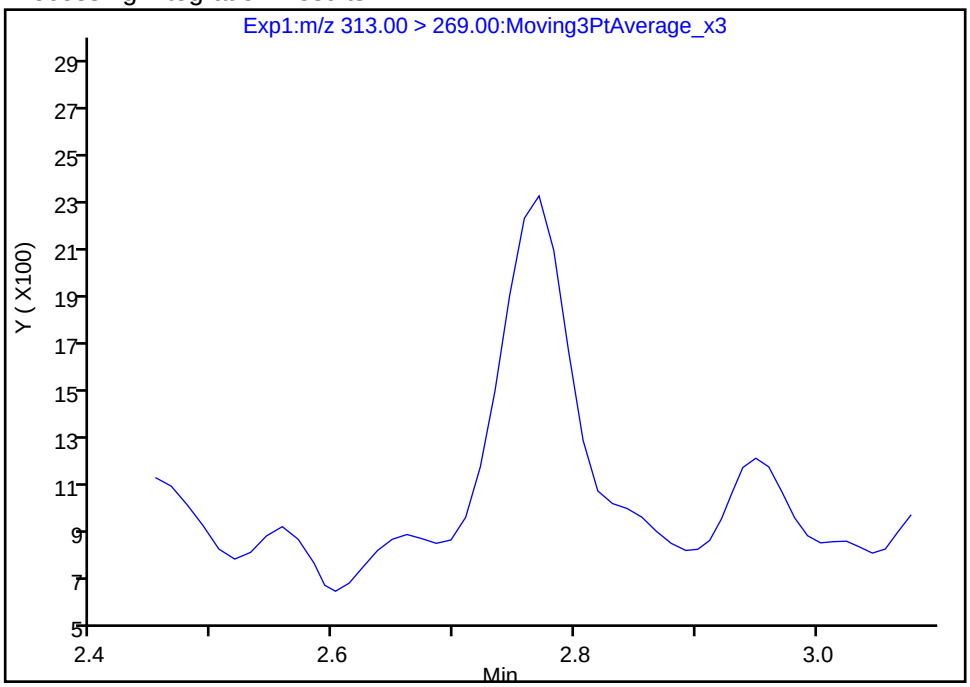
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B02.d
Injection Date: 19-Feb-2021 15:57:03 Instrument ID: LC812
Lims ID: MB 200-164111/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

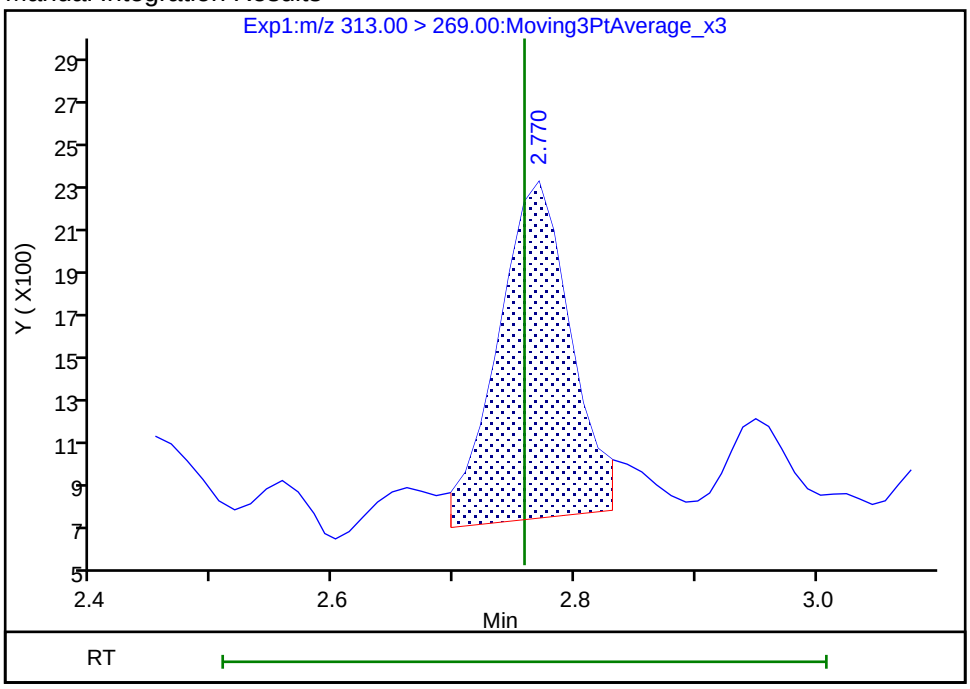
Not Detected
Expected RT: 2.76

Processing Integration Results



Manual Integration Results

RT: 2.77
Area: 6496
Amount: 0.006700
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:43:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

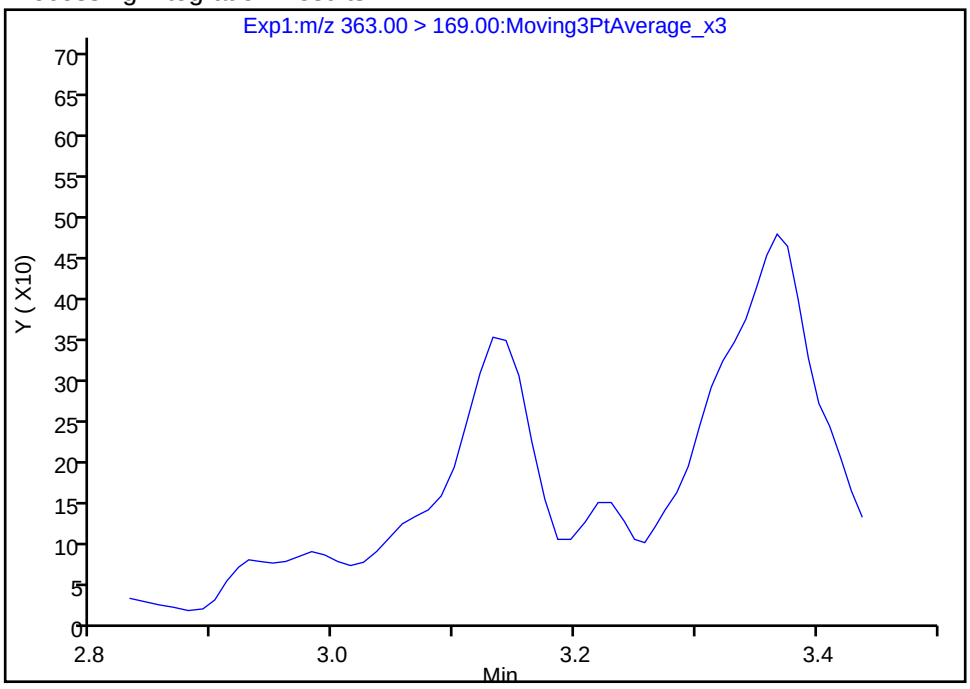
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B02.d				
Injection Date:	19-Feb-2021 15:57:03	Instrument ID:	LC812		
Lims ID:	MB 200-164111/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

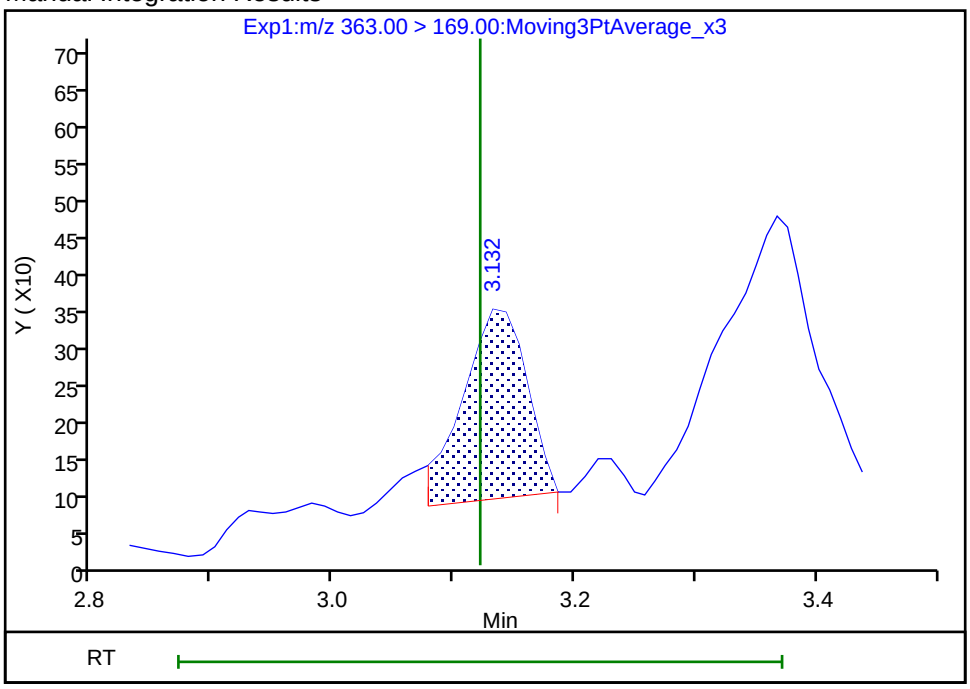
Not Detected
Expected RT: 3.12

Processing Integration Results



Manual Integration Results

RT: 3.13
Area: 939
Amount: 0.006655
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:44:32
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

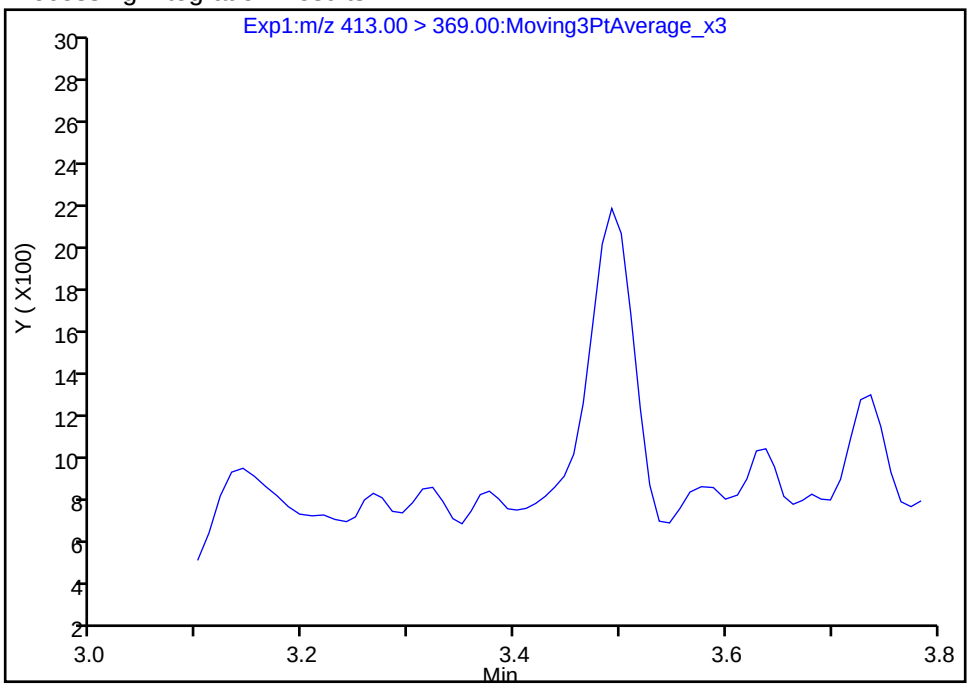
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B02.d
Injection Date: 19-Feb-2021 15:57:03 Instrument ID: LC812
Lims ID: MB 200-164111/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

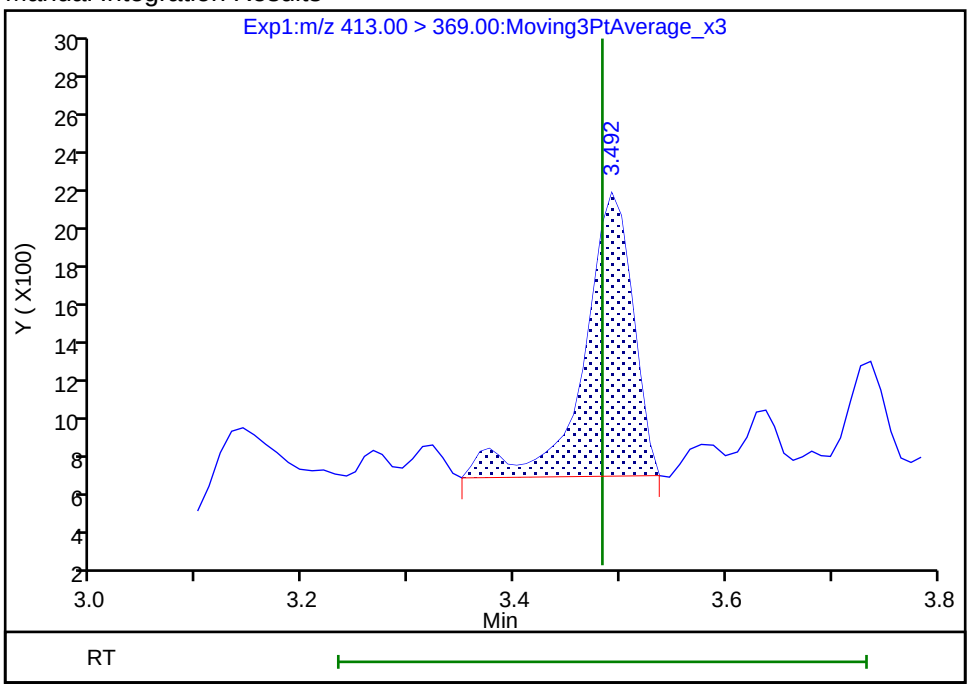
Not Detected
Expected RT: 3.48

Processing Integration Results



Manual Integration Results

RT: 3.49
Area: 4748
Amount: 0.005126
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:45:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

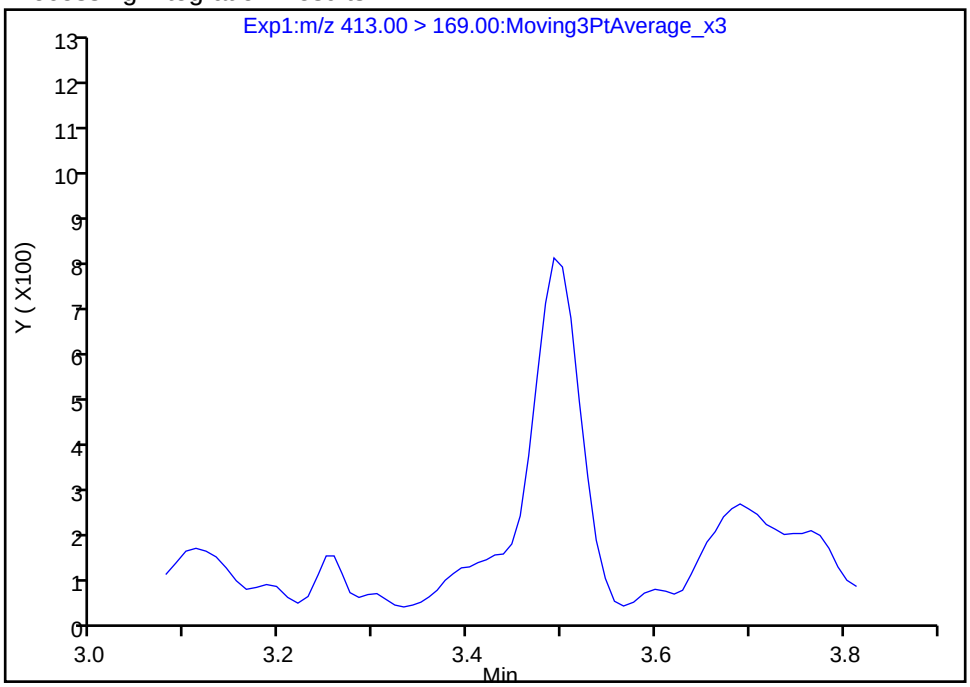
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B02.d
Injection Date: 19-Feb-2021 15:57:03 Instrument ID: LC812
Lims ID: MB 200-164111/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

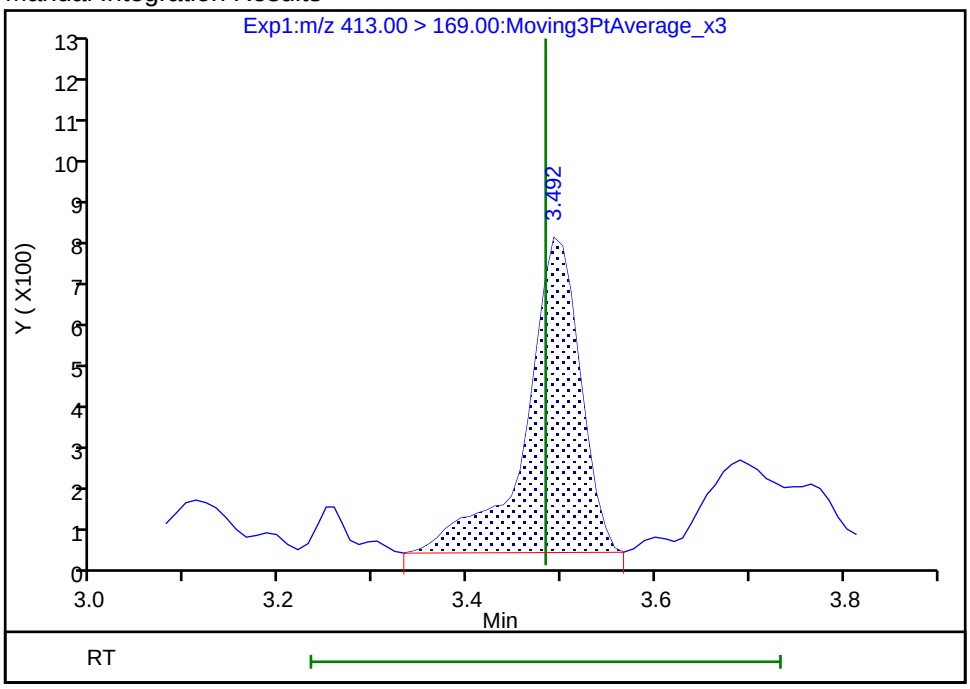
Not Detected
Expected RT: 3.48

Processing Integration Results



Manual Integration Results

RT: 3.49
Area: 2953
Amount: 0.005126
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:45:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

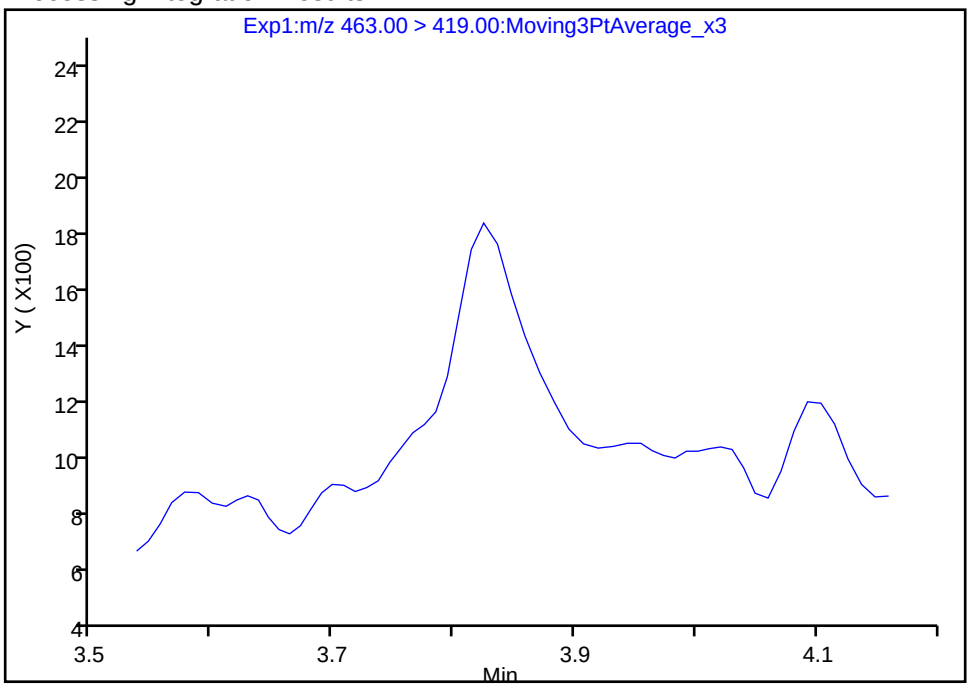
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B02.d				
Injection Date:	19-Feb-2021 15:57:03	Instrument ID:	LC812		
Lims ID:	MB 200-164111/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

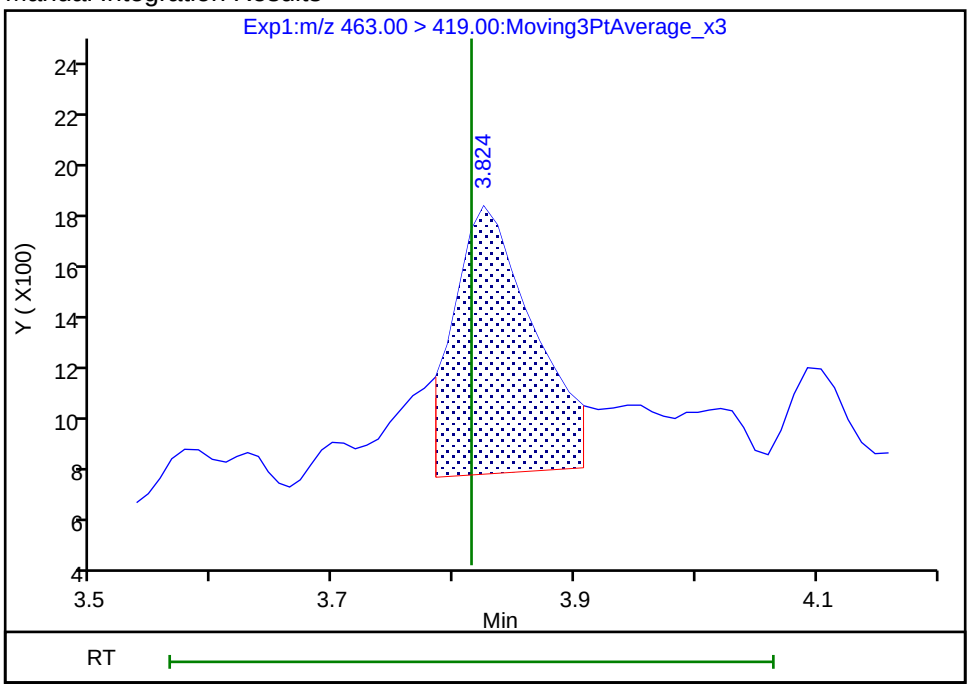
Not Detected
Expected RT: 3.81

Processing Integration Results



Manual Integration Results

RT: 3.82
Area: 4716
Amount: 0.005920
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:46:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

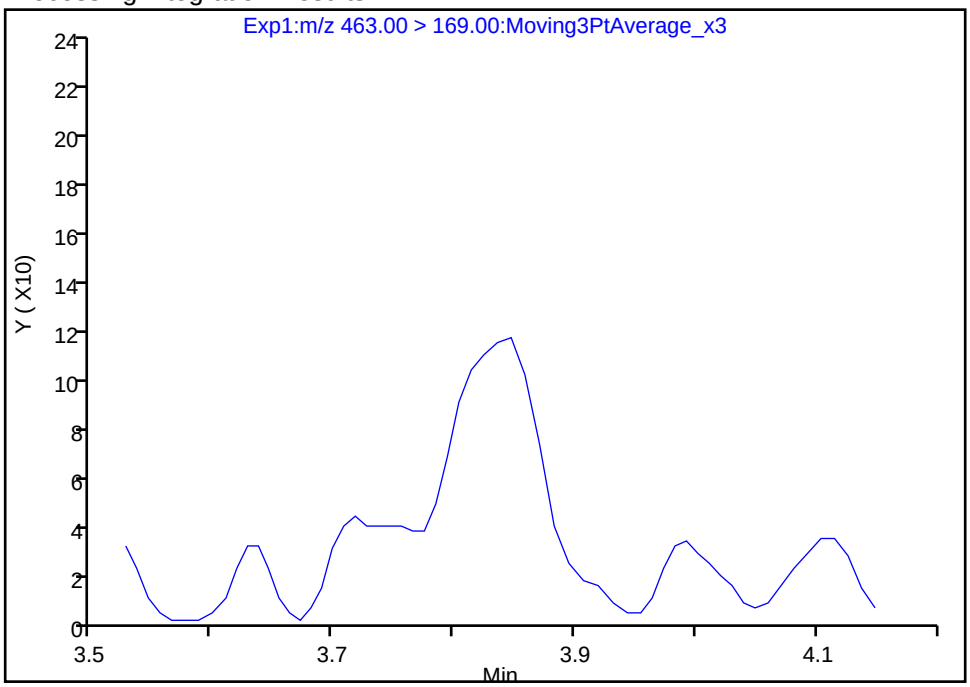
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B02.d				
Injection Date:	19-Feb-2021 15:57:03	Instrument ID:	LC812		
Lims ID:	MB 200-164111/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

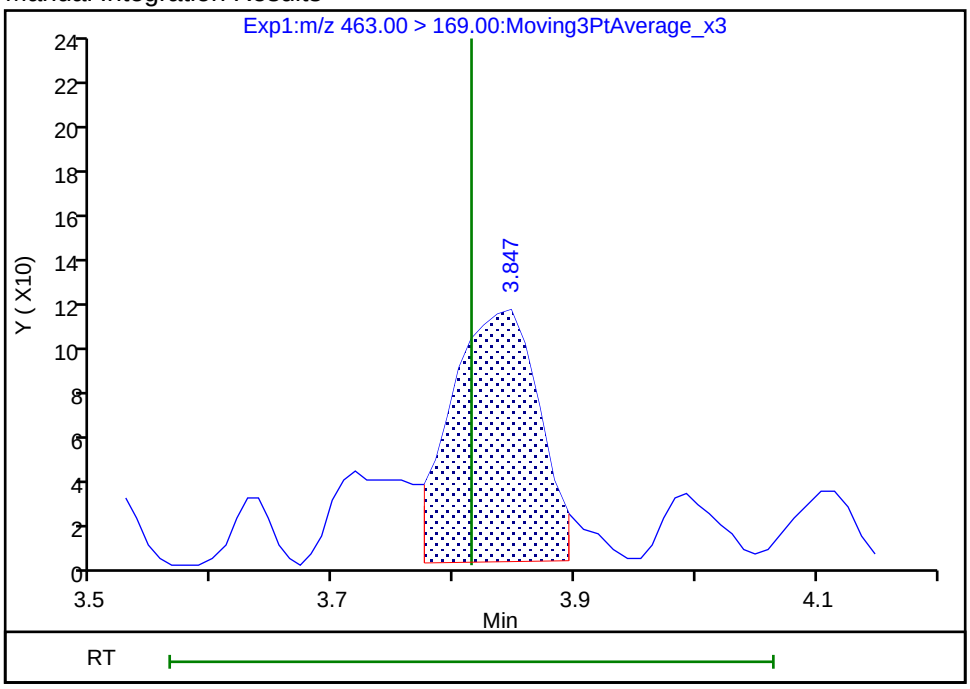
Not Detected
Expected RT: 3.81

Processing Integration Results



Manual Integration Results

RT: 3.85
Area: 560
Amount: 0.005920
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:46:24
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

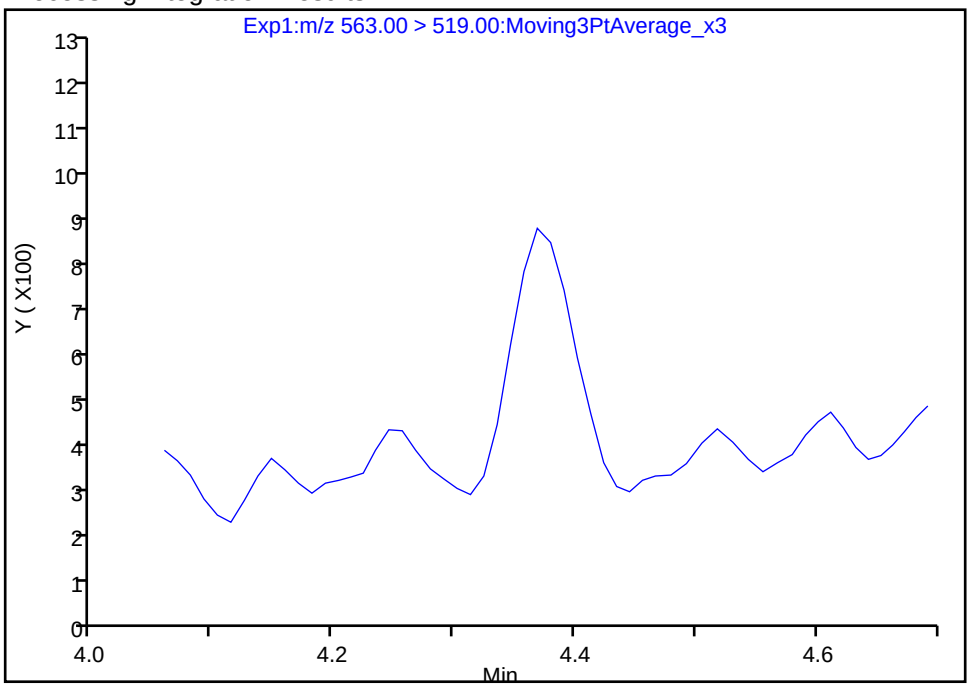
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B02.d				
Injection Date:	19-Feb-2021 15:57:03	Instrument ID:	LC812		
Lims ID:	MB 200-164111/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

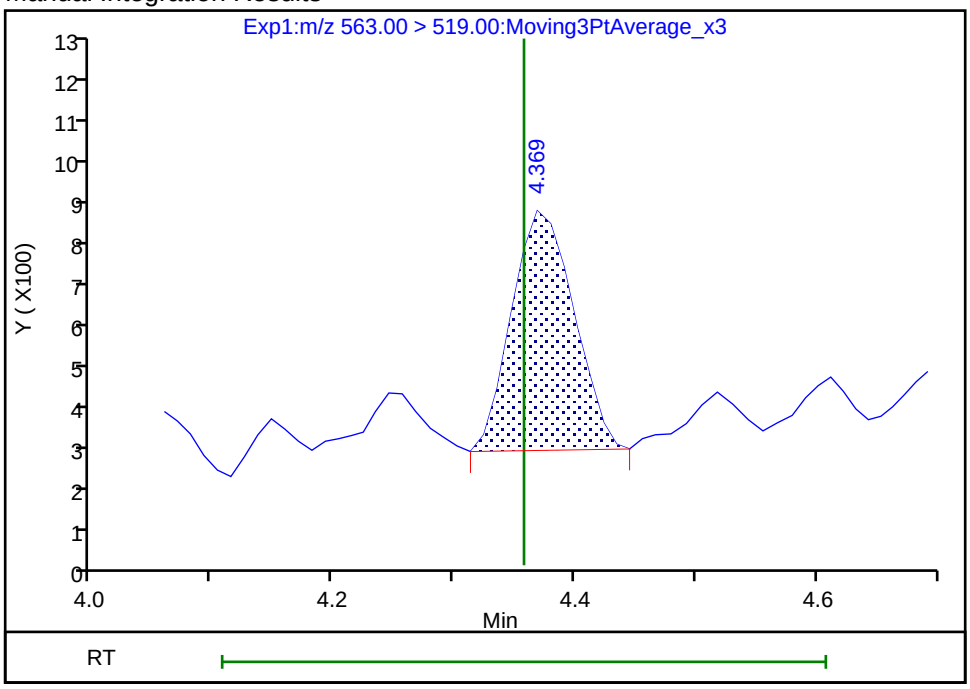
Not Detected
Expected RT: 4.36

Processing Integration Results



Manual Integration Results

RT: 4.37
Area: 1985
Amount: 0.004162
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:47:24
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

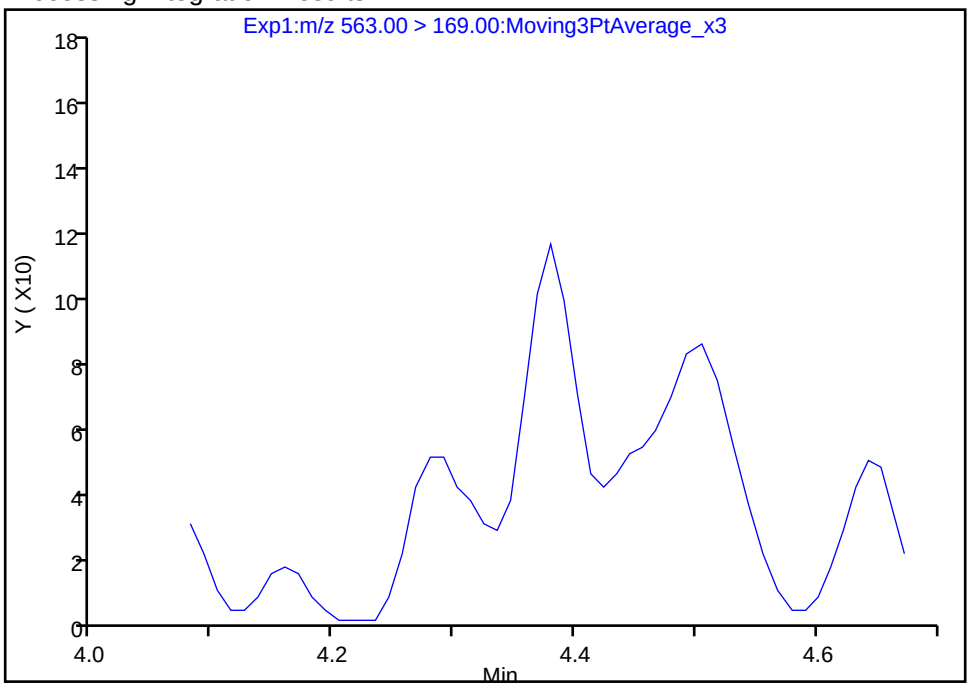
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B02.d				
Injection Date:	19-Feb-2021 15:57:03	Instrument ID:	LC812		
Lims ID:	MB 200-164111/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

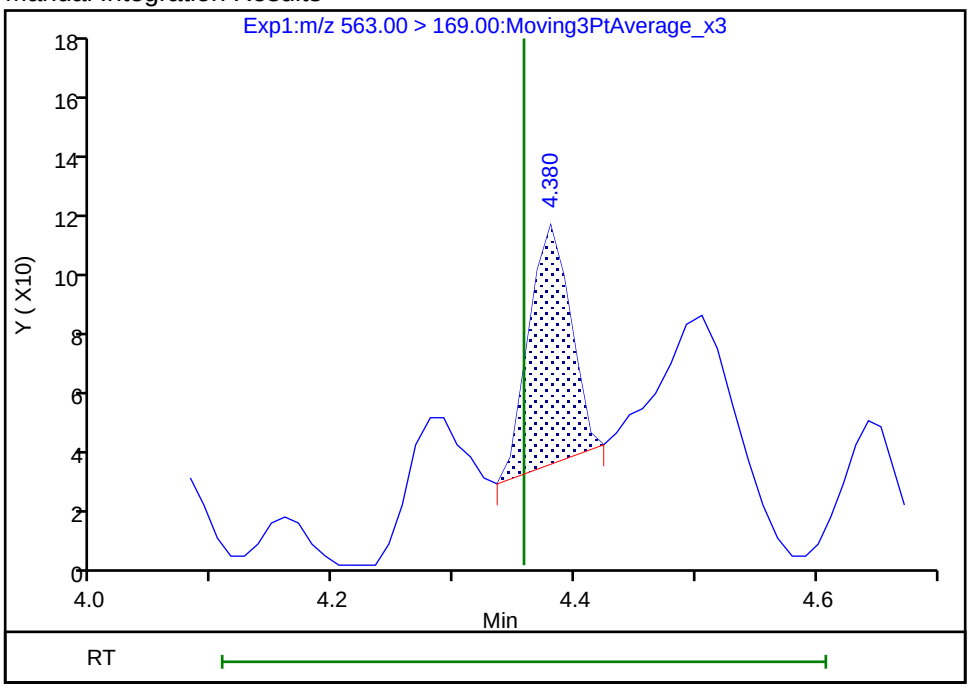
Not Detected
Expected RT: 4.36

Processing Integration Results



Manual Integration Results

RT: 4.38
Area: 190
Amount: 0.004162
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:47:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

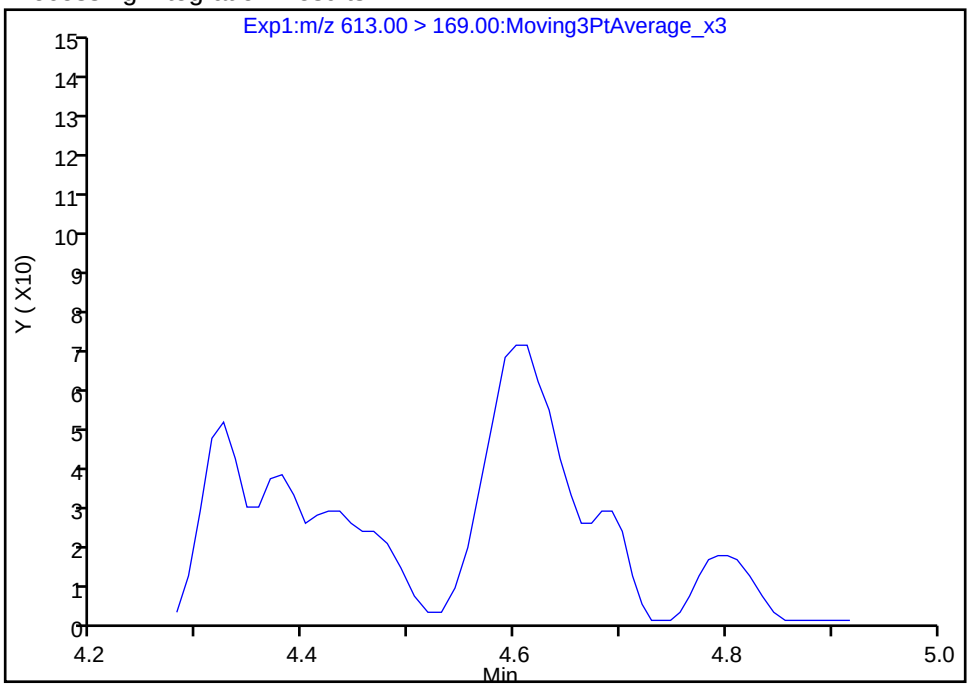
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B02.d				
Injection Date:	19-Feb-2021 15:57:03	Instrument ID:	LC812		
Lims ID:	MB 200-164111/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

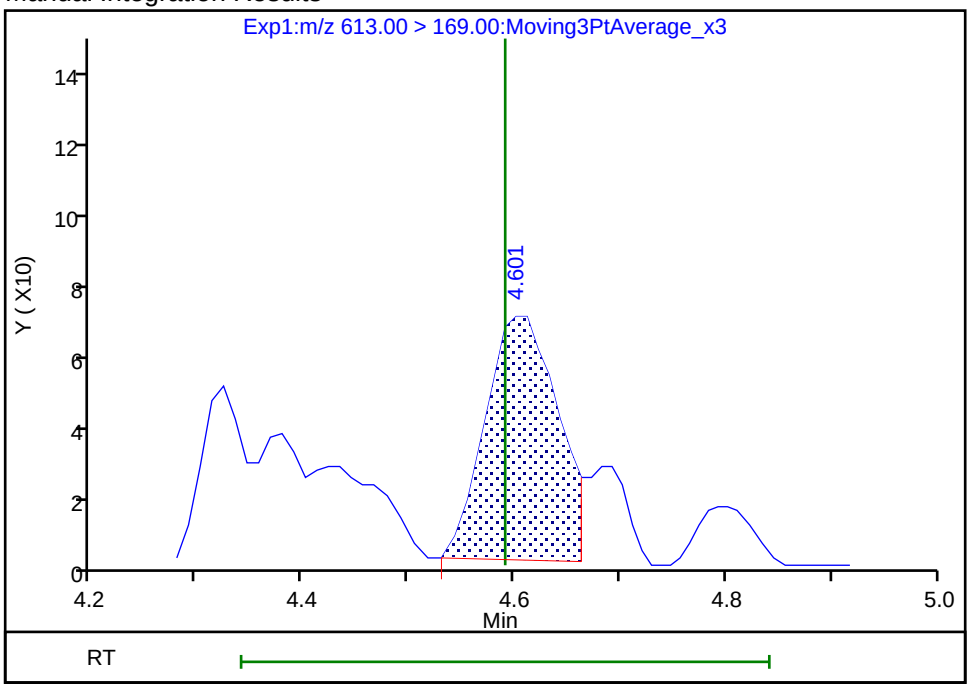
Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results

RT: 4.60
Area: 314
Amount: 0.005668
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:47:55
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

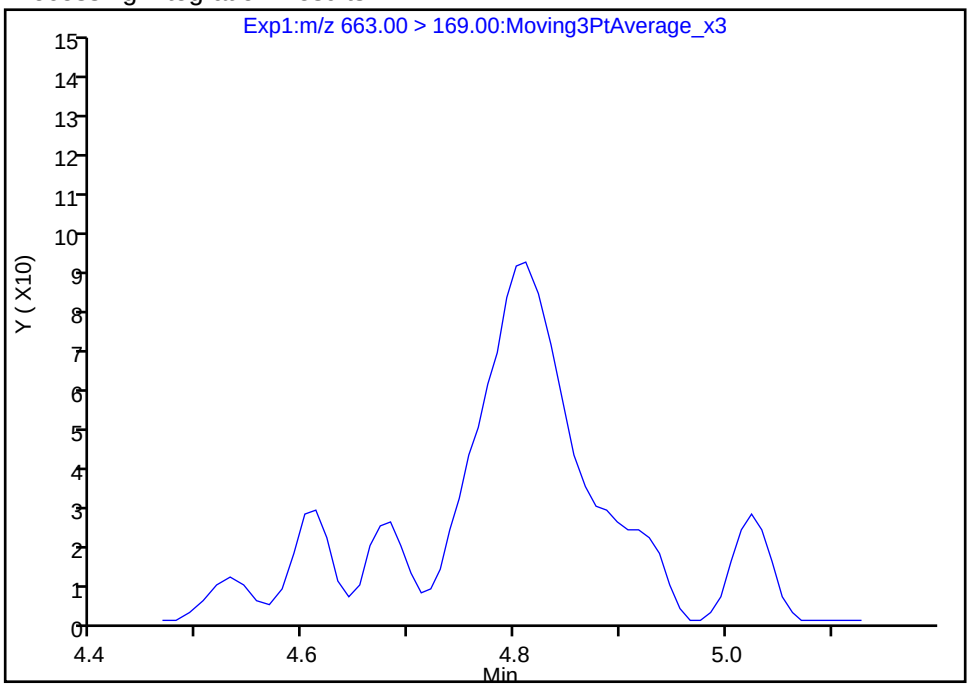
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B02.d				
Injection Date:	19-Feb-2021 15:57:03	Instrument ID:	LC812		
Lims ID:	MB 200-164111/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

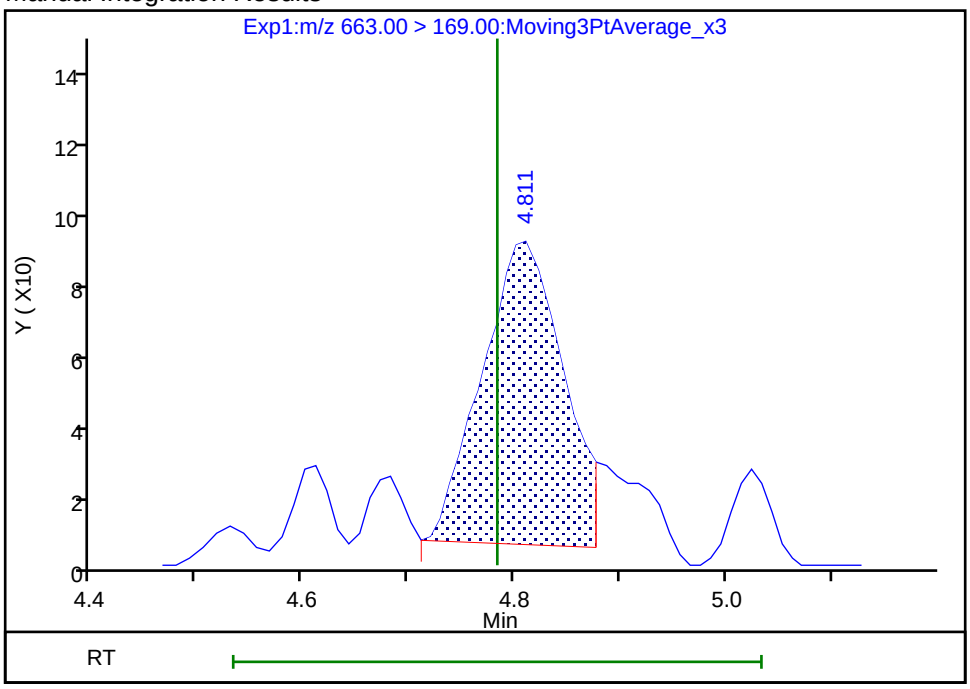
Not Detected
Expected RT: 4.78

Processing Integration Results



Manual Integration Results

RT: 4.81
Area: 452
Amount: 0.004490
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:48:33
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

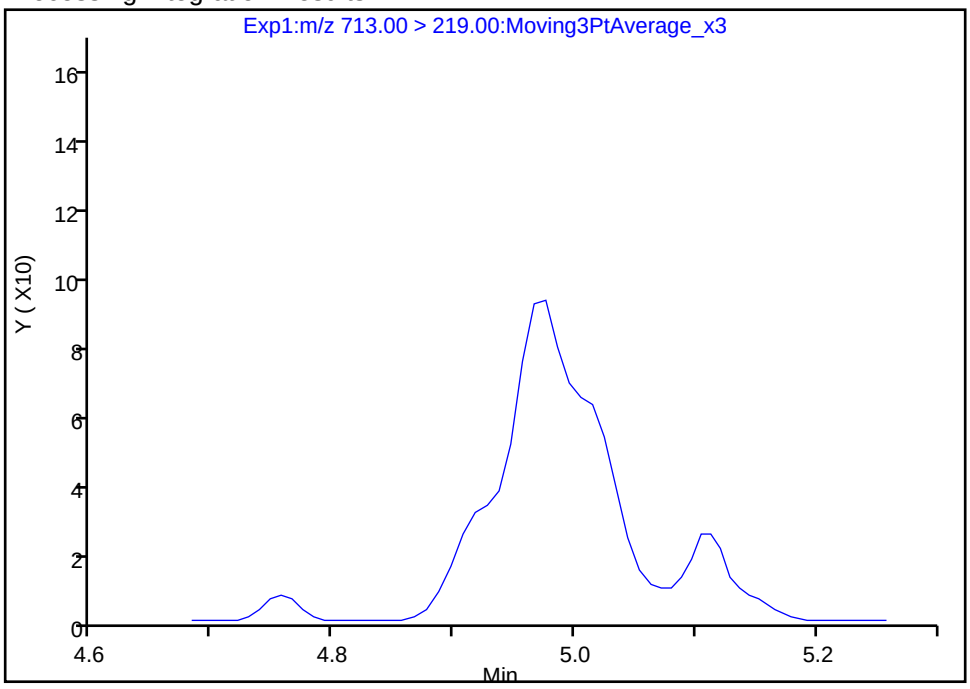
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B02.d				
Injection Date:	19-Feb-2021 15:57:03	Instrument ID:	LC812		
Lims ID:	MB 200-164111/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

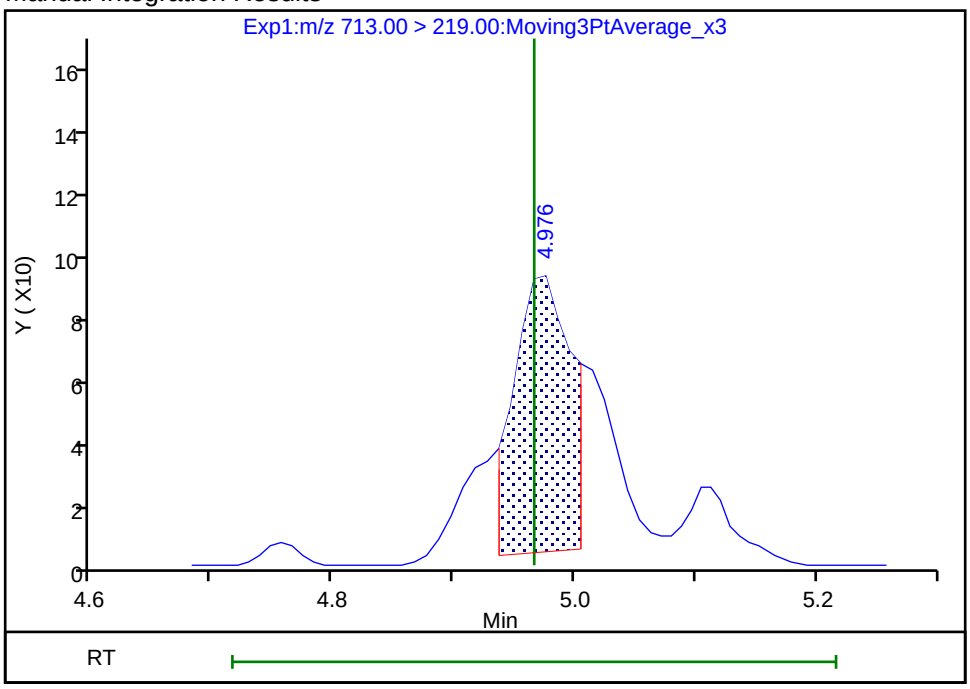
Not Detected
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.98
Area: 267
Amount: 0.006801
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:48:50
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

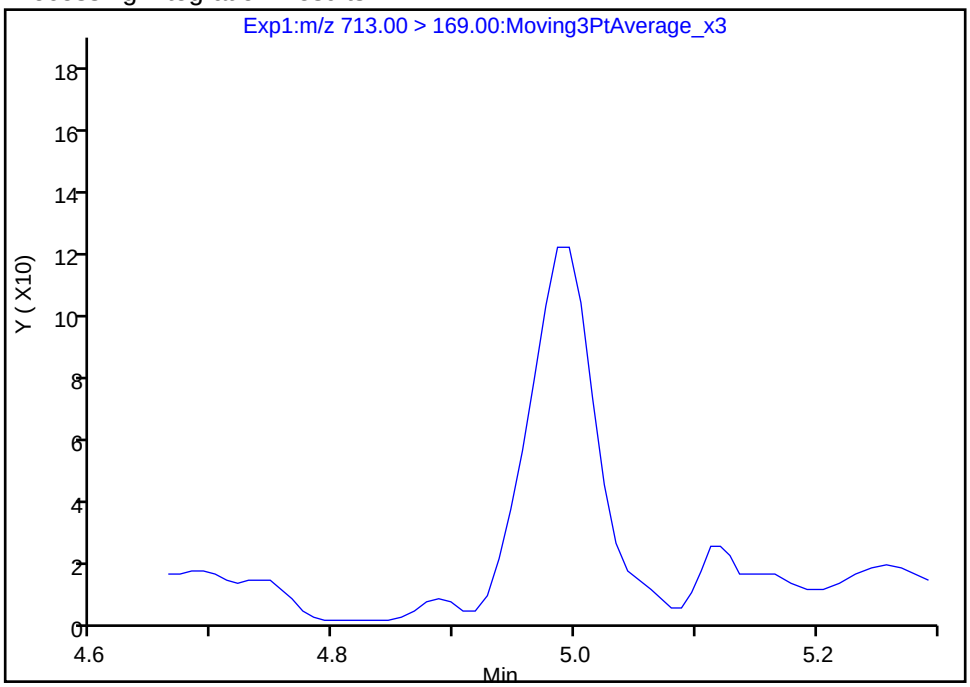
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B02.d
Injection Date: 19-Feb-2021 15:57:03 Instrument ID: LC812
Lims ID: MB 200-164111/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

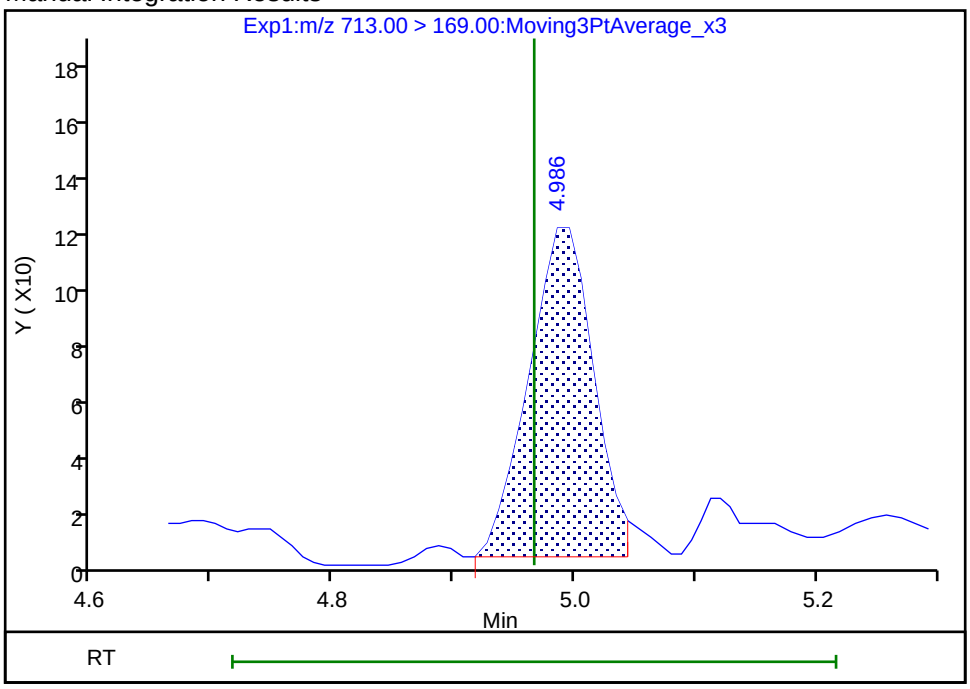
Not Detected
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.99
Area: 439
Amount: 0.006801
Amount Units: ng/ml



Reviewer: deannd, 22-Feb-2021 11:46:31
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

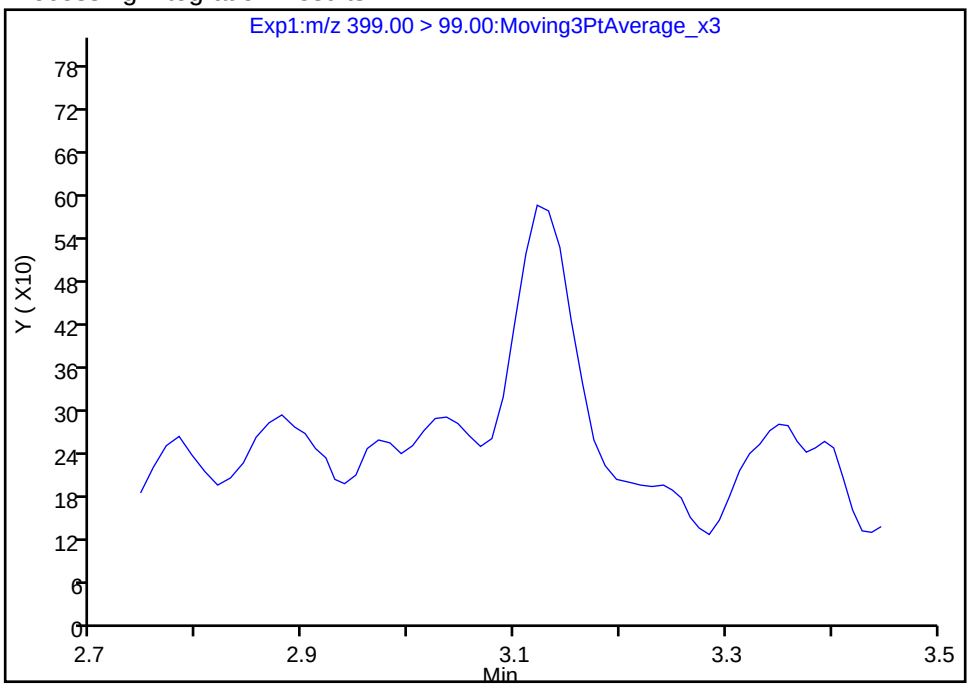
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B02.d
Injection Date: 19-Feb-2021 15:57:03 Instrument ID: LC812
Lims ID: MB 200-164111/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

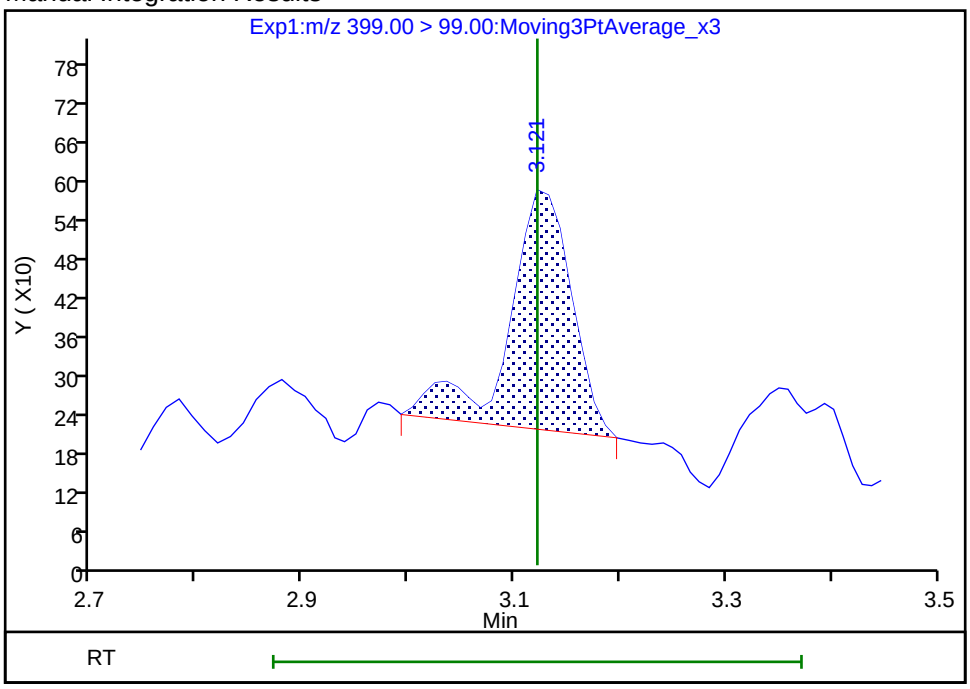
Not Detected
Expected RT: 3.12

Processing Integration Results



Manual Integration Results

RT: 3.12
Area: 1521
Amount: 0.006265
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:44:06
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

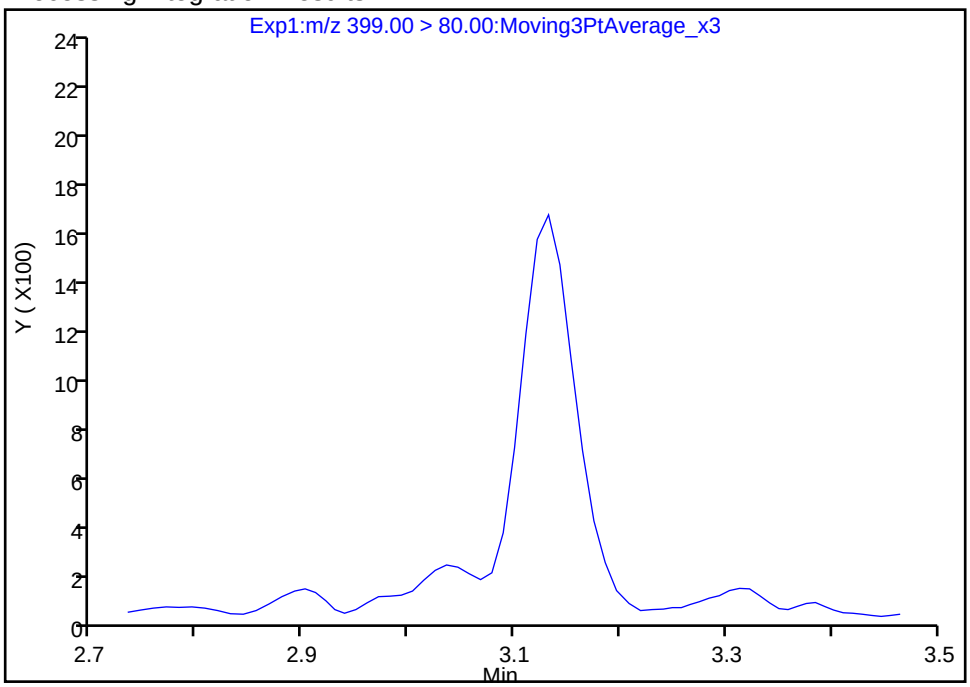
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B02.d				
Injection Date:	19-Feb-2021 15:57:03	Instrument ID:	LC812		
Lims ID:	MB 200-164111/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

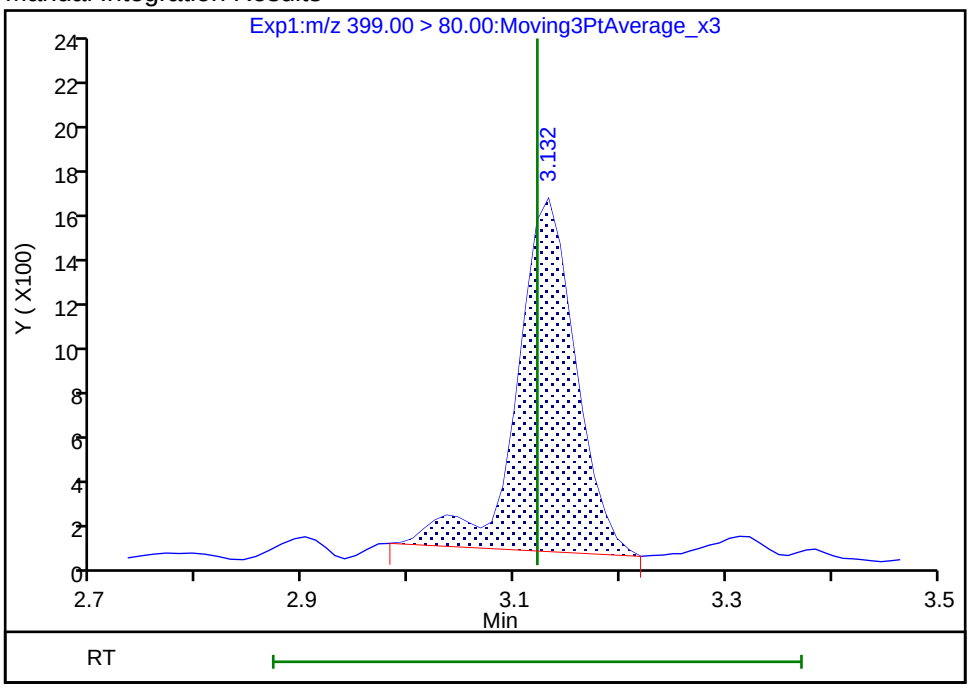
Not Detected
Expected RT: 3.12

Processing Integration Results



Manual Integration Results

RT: 3.13
Area: 6218
Amount: 0.006265
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:44:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

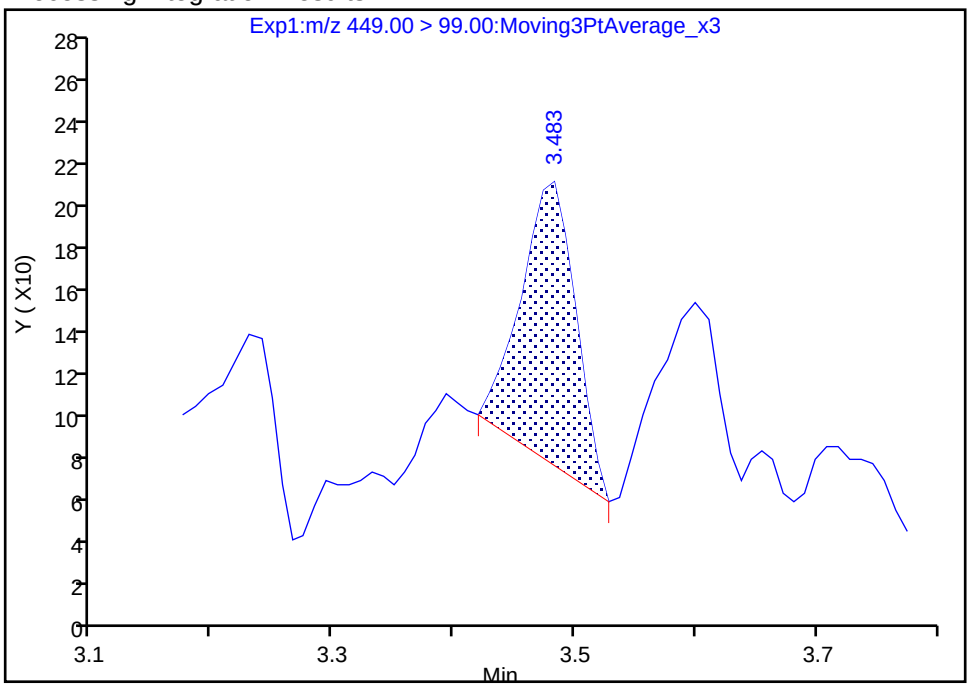
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B02.d
Injection Date: 19-Feb-2021 15:57:03 Instrument ID: LC812
Lims ID: MB 200-164111/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

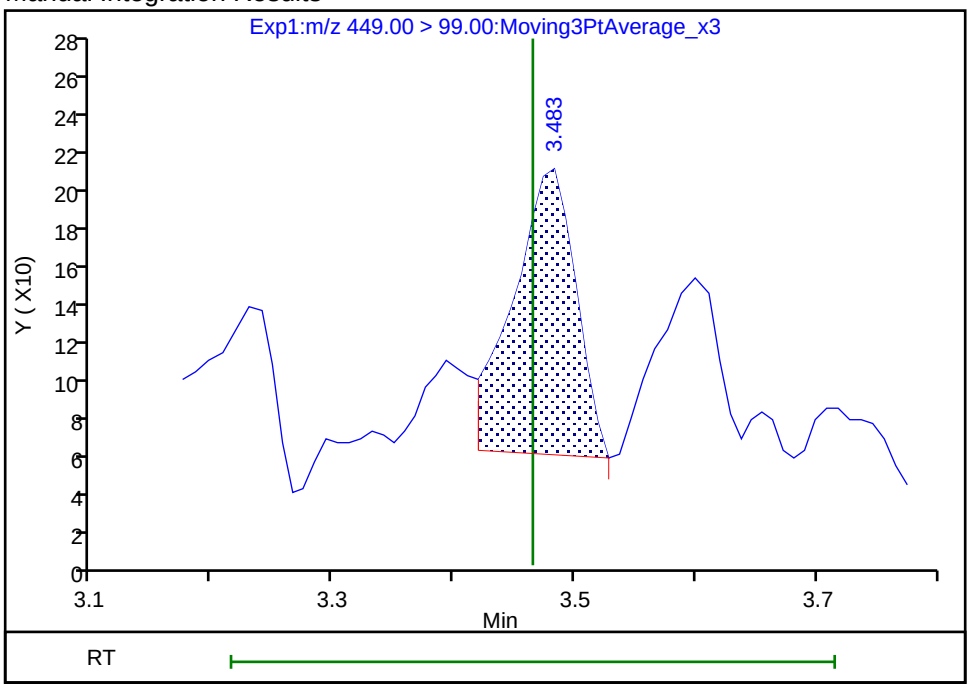
Processing Integration Results

RT: 3.48
Area: 415
Amount: 0.003407
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 535
Amount: 0.003349
Amount Units: ng/ml



Reviewer: deannd, 22-Feb-2021 11:47:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

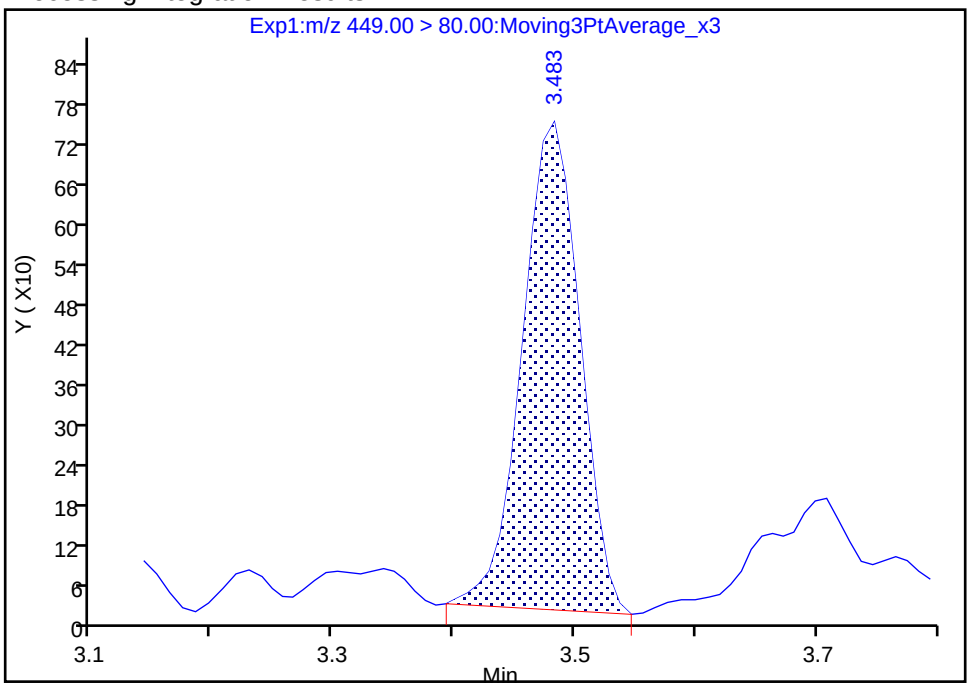
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B02.d
Injection Date: 19-Feb-2021 15:57:03 Instrument ID: LC812
Lims ID: MB 200-164111/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

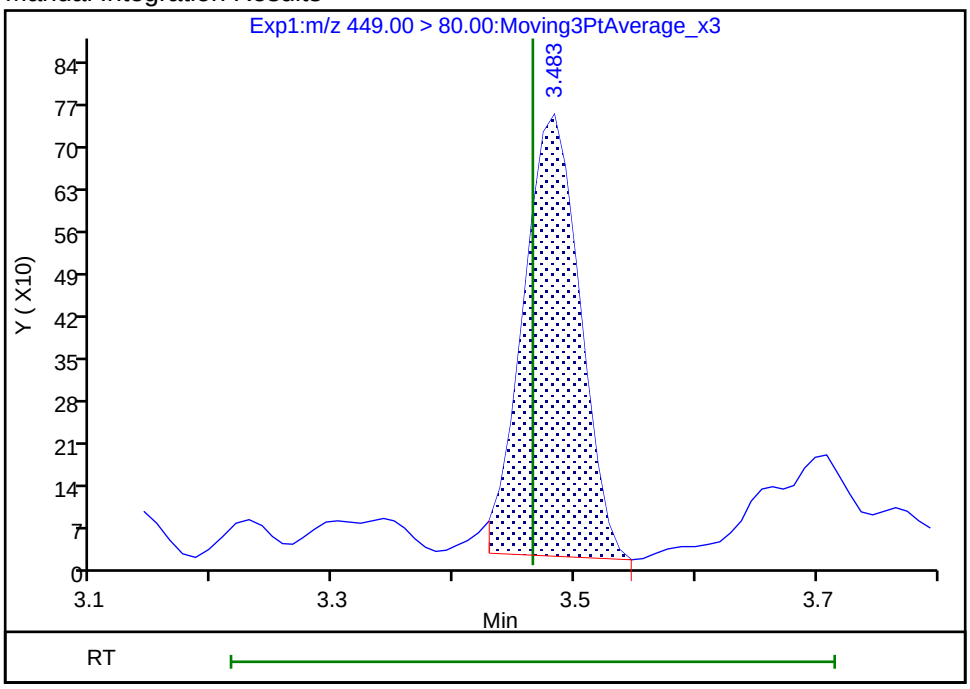
Processing Integration Results

RT: 3.48
Area: 2440
Amount: 0.003407
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 2399
Amount: 0.003349
Amount Units: ng/ml



Reviewer: deannd, 22-Feb-2021 11:47:45
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

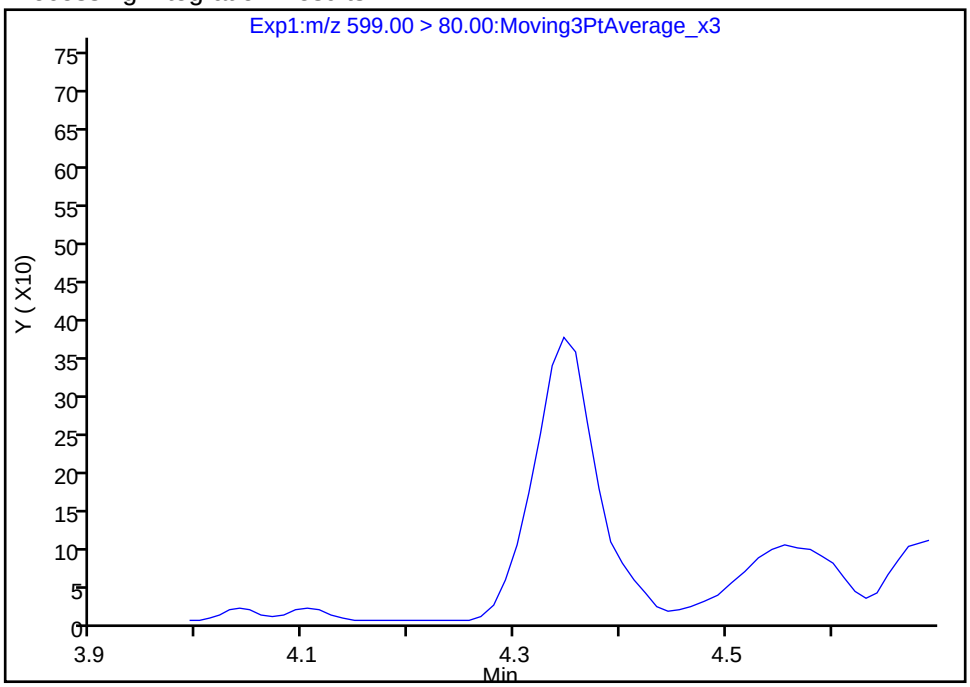
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B02.d				
Injection Date:	19-Feb-2021 15:57:03	Instrument ID:	LC812		
Lims ID:	MB 200-164111/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

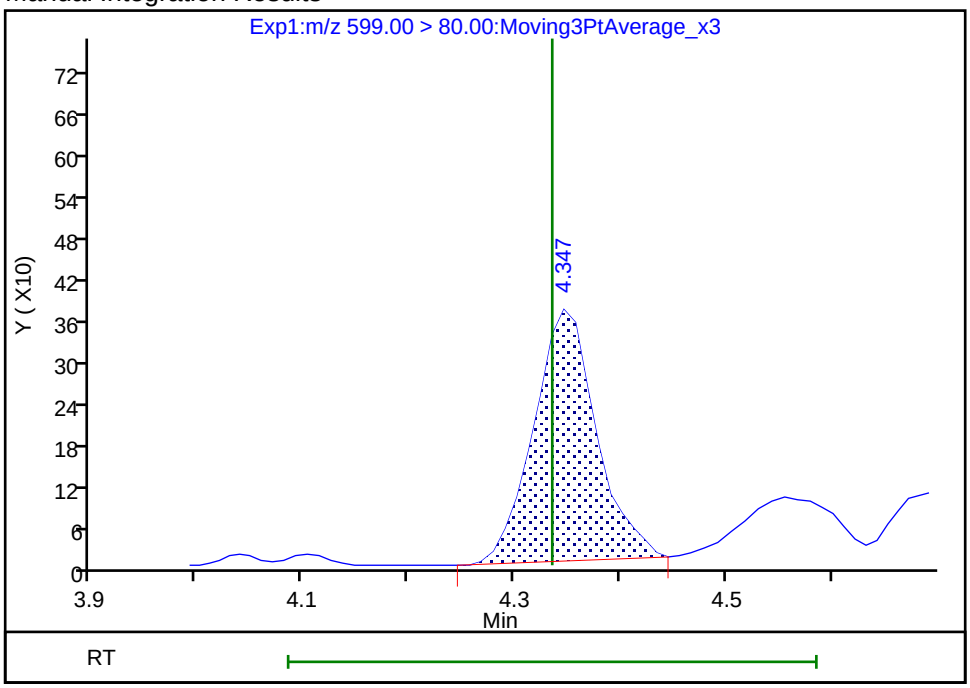
Not Detected
Expected RT: 4.34

Processing Integration Results



Manual Integration Results

RT: 4.35
Area: 1501
Amount: 0.004136
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:47:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

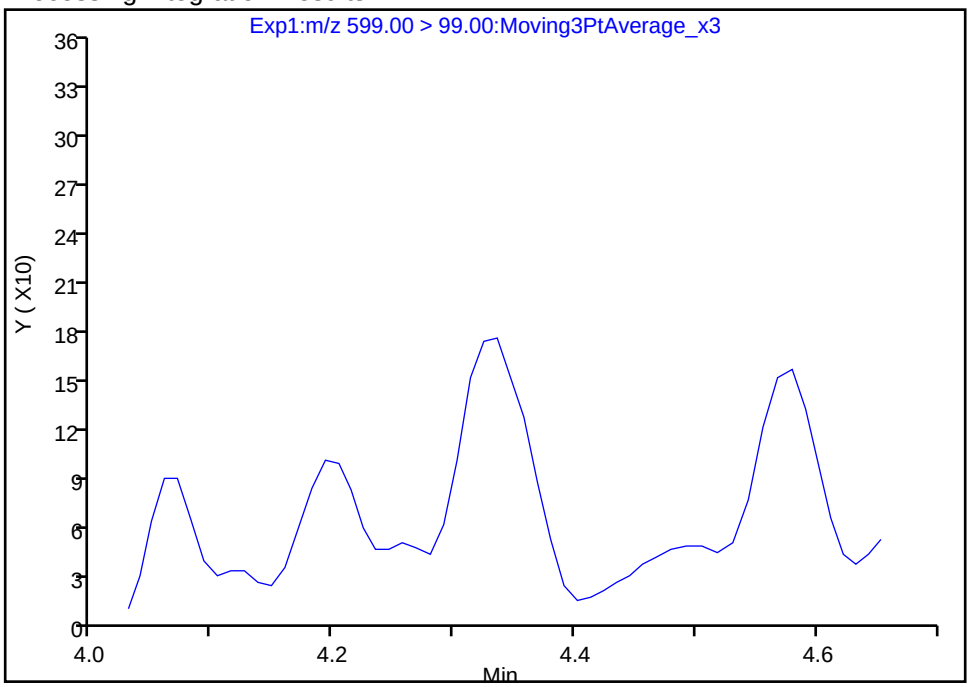
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B02.d				
Injection Date:	19-Feb-2021 15:57:03	Instrument ID:	LC812		
Lims ID:	MB 200-164111/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

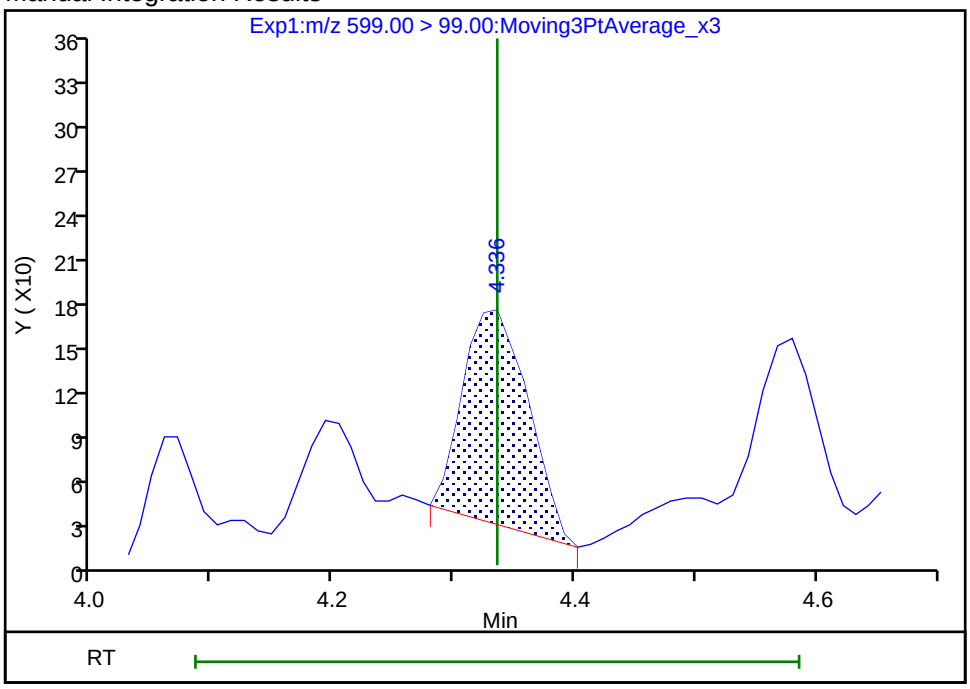
Not Detected
Expected RT: 4.34

Processing Integration Results



Manual Integration Results

RT: 4.34
Area: 535
Amount: 0.004136
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:47:17
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

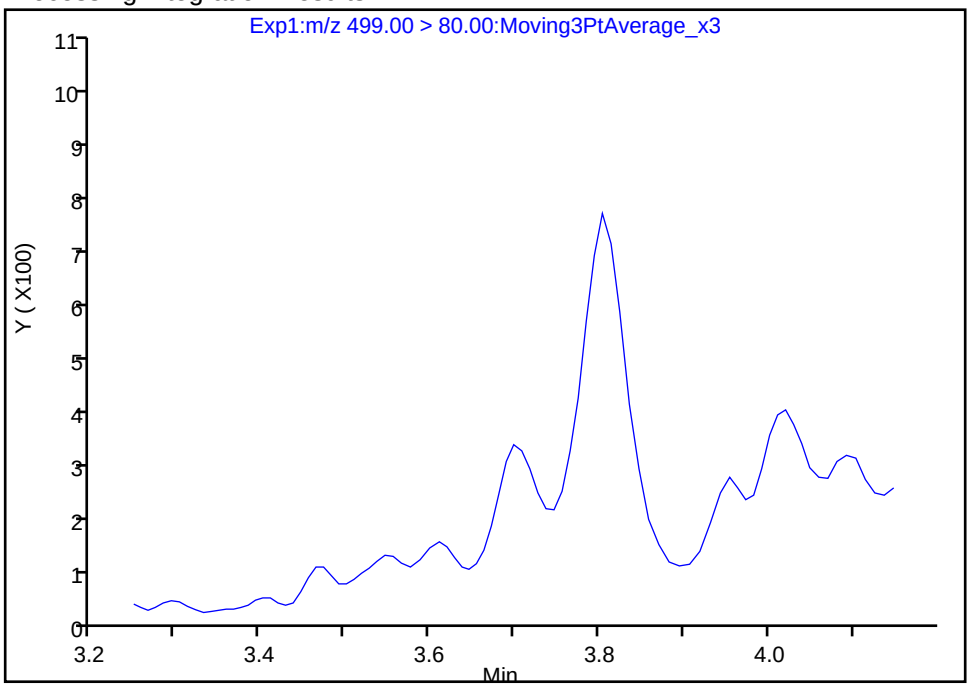
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B02.d				
Injection Date:	19-Feb-2021 15:57:03	Instrument ID:	LC812		
Lims ID:	MB 200-164111/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

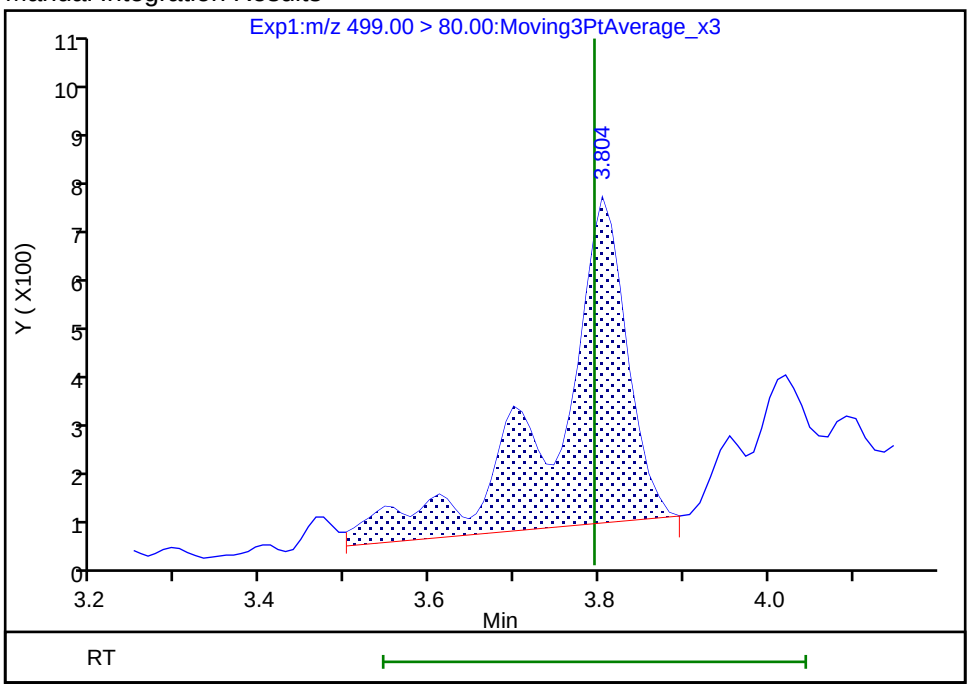
Not Detected
Expected RT: 3.79

Processing Integration Results



Manual Integration Results

RT: 3.80
Area: 3875
Amount: 0.006351
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:45:59
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

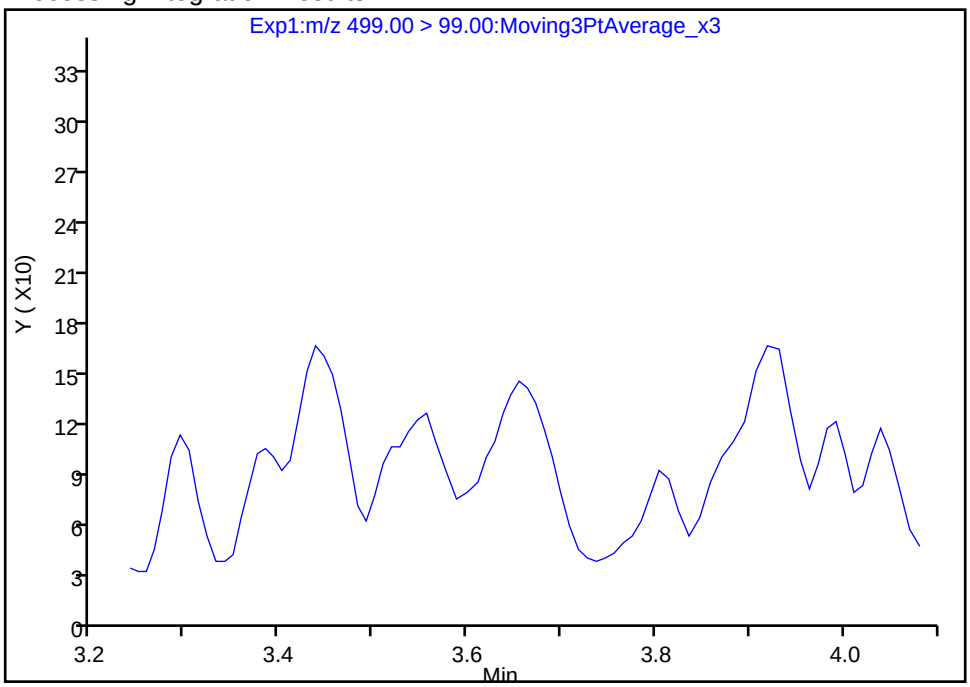
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B02.d				
Injection Date:	19-Feb-2021 15:57:03	Instrument ID:	LC812		
Lims ID:	MB 200-164111/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

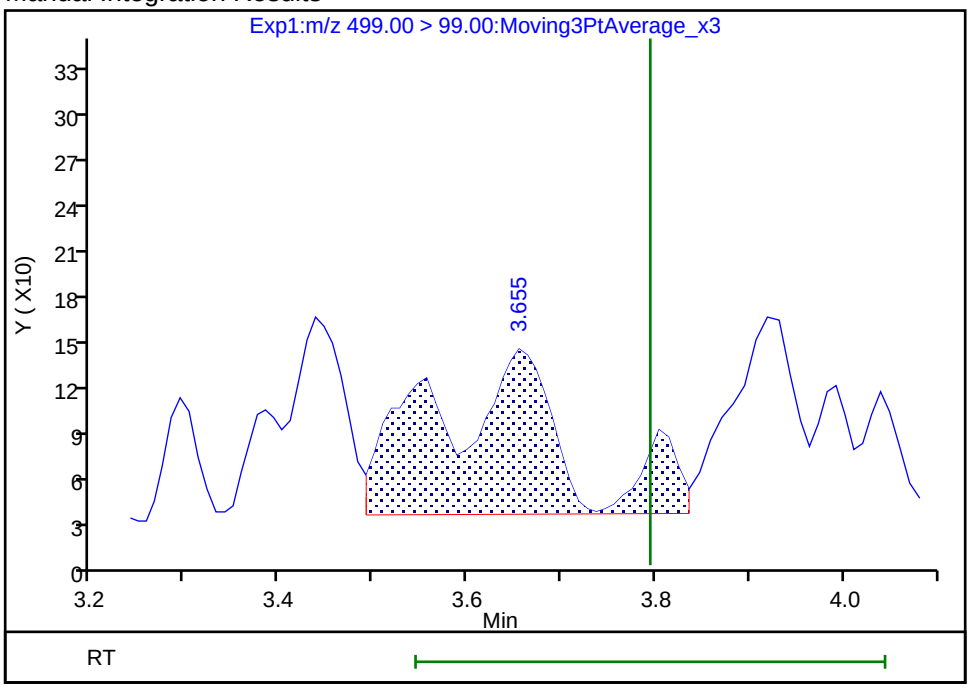
Processing Integration Results

Not Detected
Expected RT: 3.79



Manual Integration Results

RT: 3.65
Area: 1052
Amount: 0.006351
Amount Units: ng/ml



Reviewer: deannd, 22-Feb-2021 11:46:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

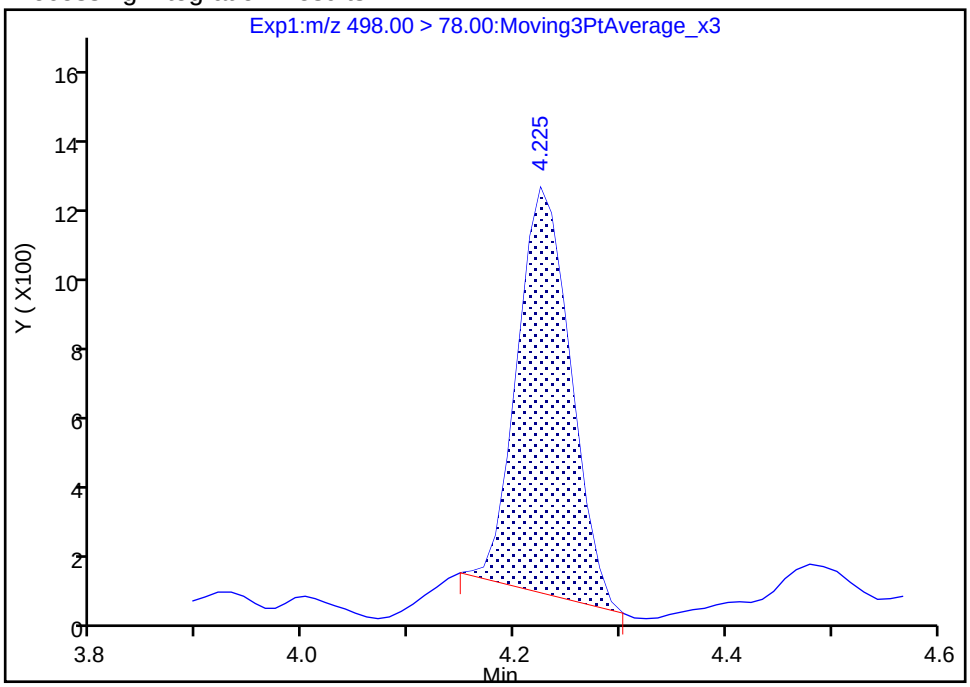
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B02.d
Injection Date: 19-Feb-2021 15:57:03 Instrument ID: LC812
Lims ID: MB 200-164111/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

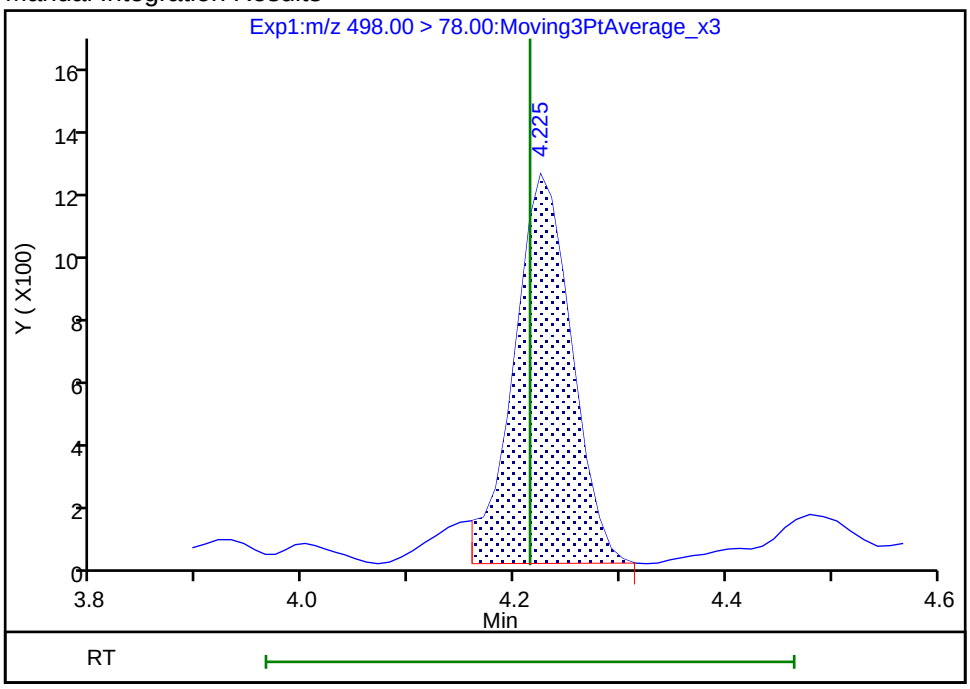
Processing Integration Results

RT: 4.22
Area: 4124
Amount: 0.004700
Amount Units: ng/ml



Manual Integration Results

RT: 4.22
Area: 4717
Amount: 0.005376
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:47:02
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

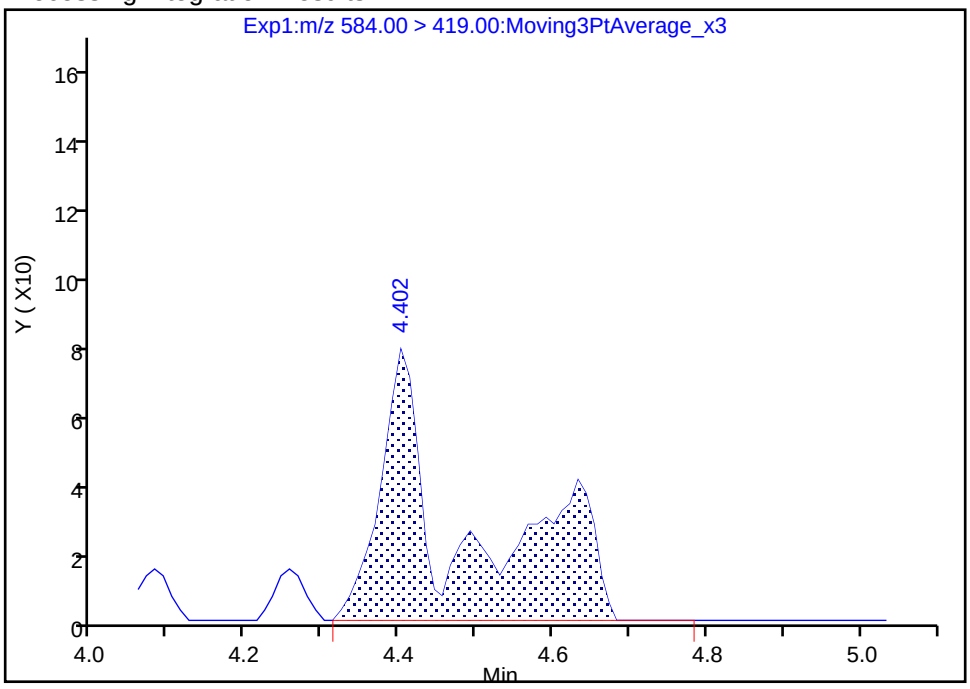
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B02.d
Injection Date: 19-Feb-2021 15:57:03 Instrument ID: LC812
Lims ID: MB 200-164111/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

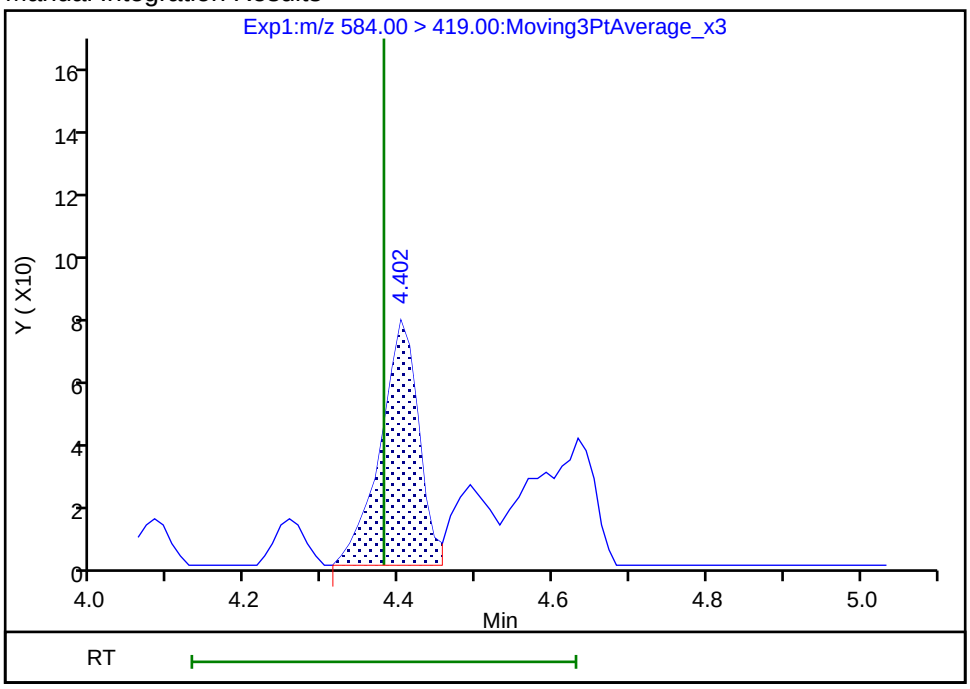
Processing Integration Results

RT: 4.40
Area: 586
Amount: 0.015662
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 272
Amount: 0.007270
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:47:38
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

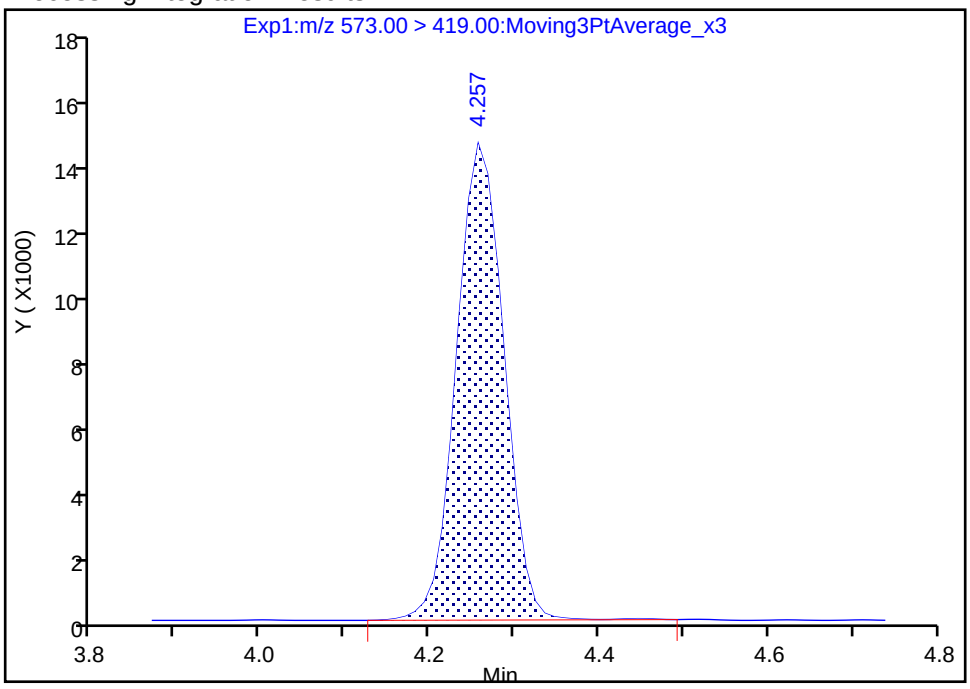
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B02.d				
Injection Date:	19-Feb-2021 15:57:03	Instrument ID:	LC812		
Lims ID:	MB 200-164111/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

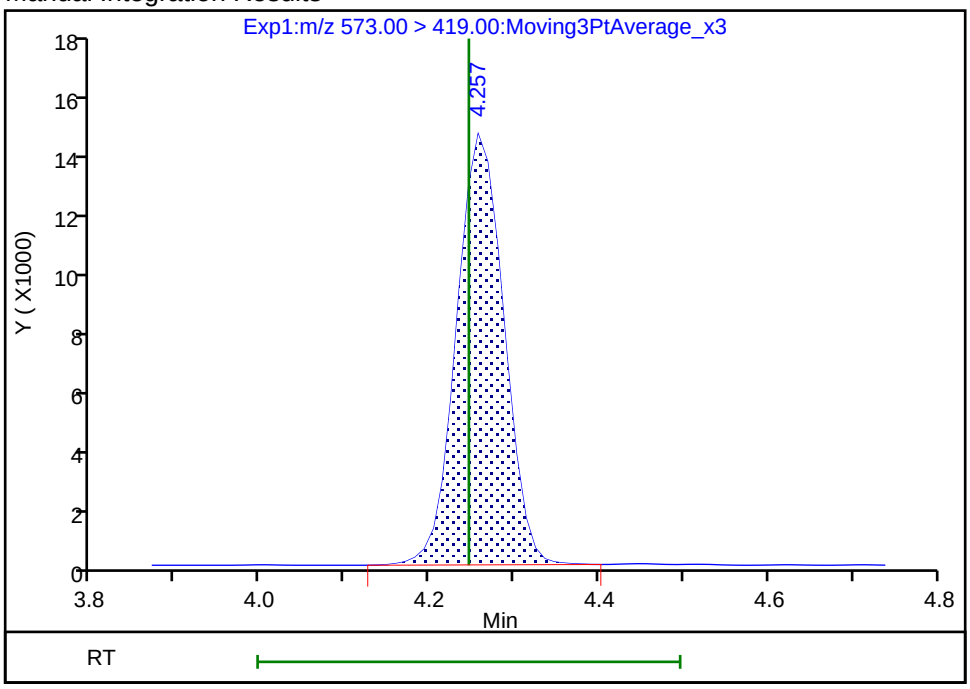
Processing Integration Results

RT: 4.26
Area: 57317
Amount: 1.163620
Amount Units: ng/ml



Manual Integration Results

RT: 4.26
Area: 57157
Amount: 1.160372
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:42:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

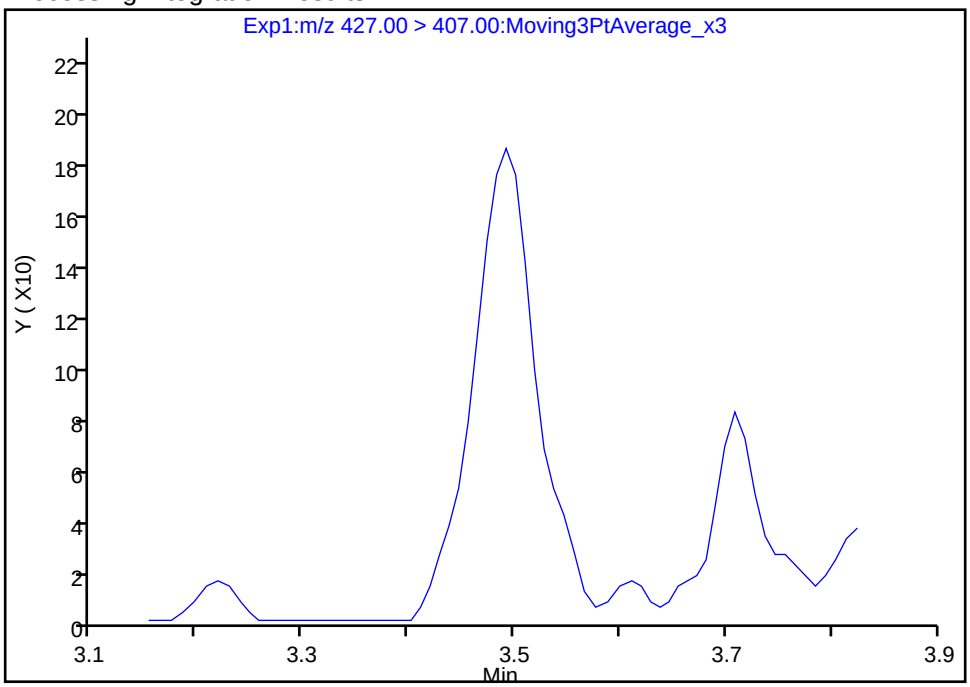
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B02.d				
Injection Date:	19-Feb-2021 15:57:03	Instrument ID:	LC812		
Lims ID:	MB 200-164111/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

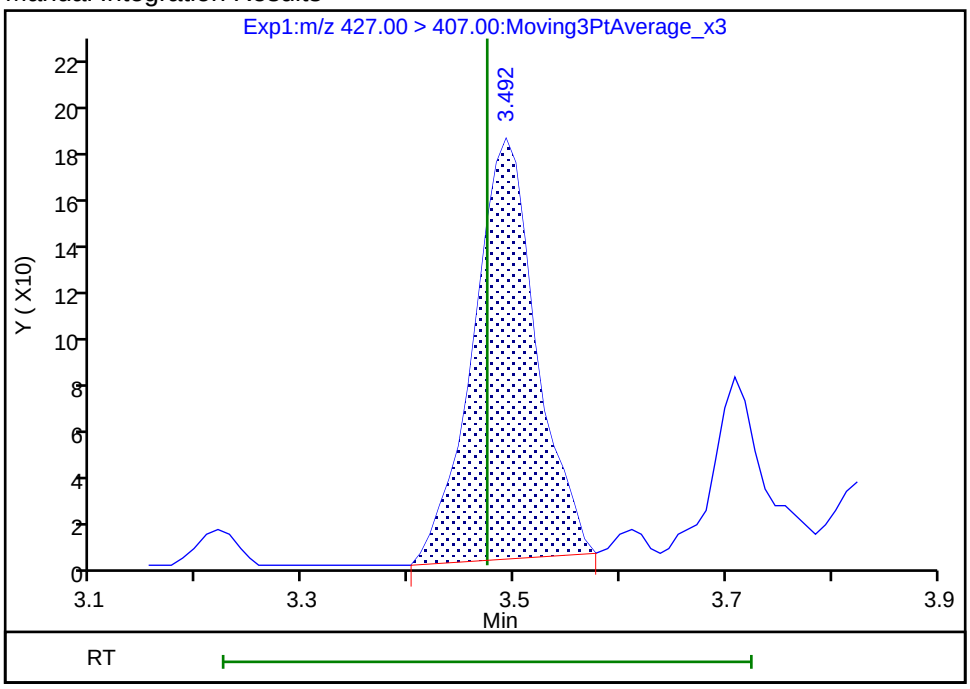
Not Detected
Expected RT: 3.47

Processing Integration Results



Manual Integration Results

RT: 3.49
Area: 733
Amount: 0.006187
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:44:57
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

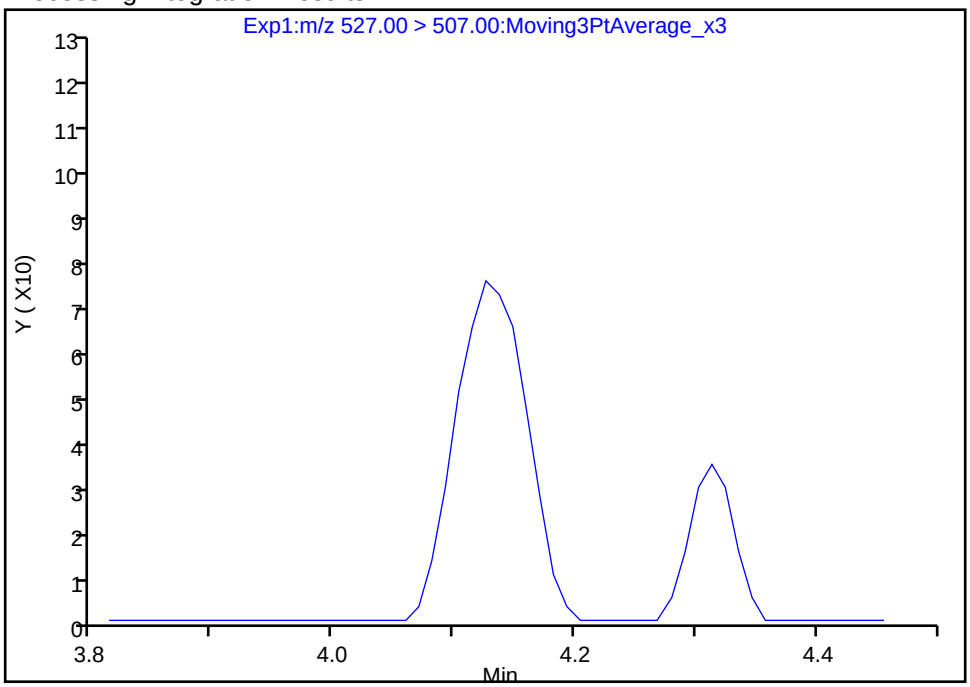
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B02.d
Injection Date: 19-Feb-2021 15:57:03 Instrument ID: LC812
Lims ID: MB 200-164111/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

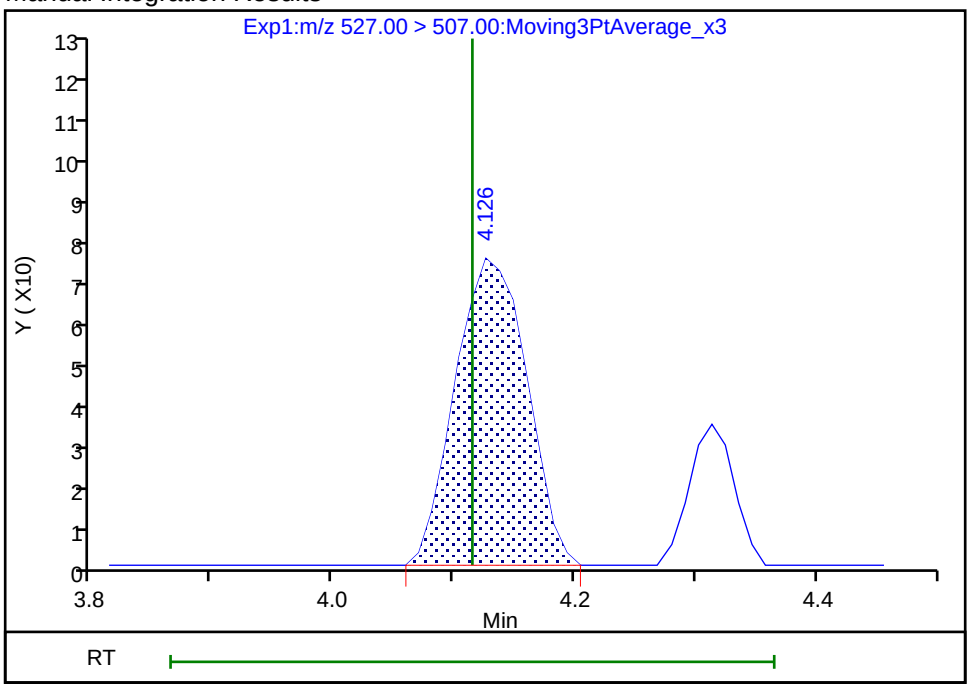
Not Detected
Expected RT: 4.12

Processing Integration Results



Manual Integration Results

RT: 4.13
Area: 304
Amount: 0.004248
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:46:55
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

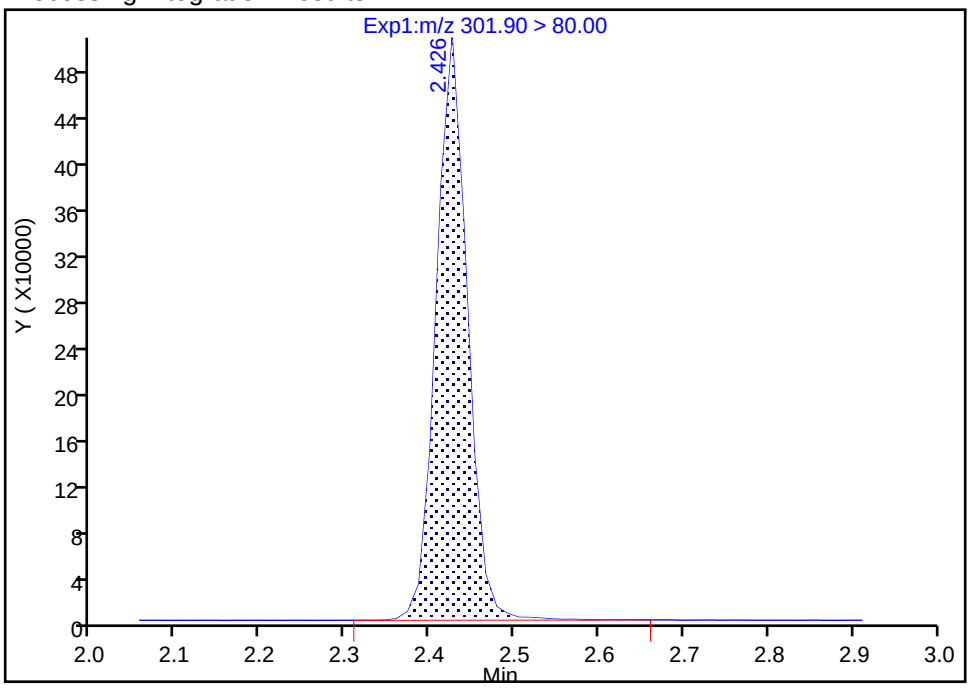
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B02.d
Injection Date: 19-Feb-2021 15:57:03 Instrument ID: LC812
Lims ID: MB 200-164111/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

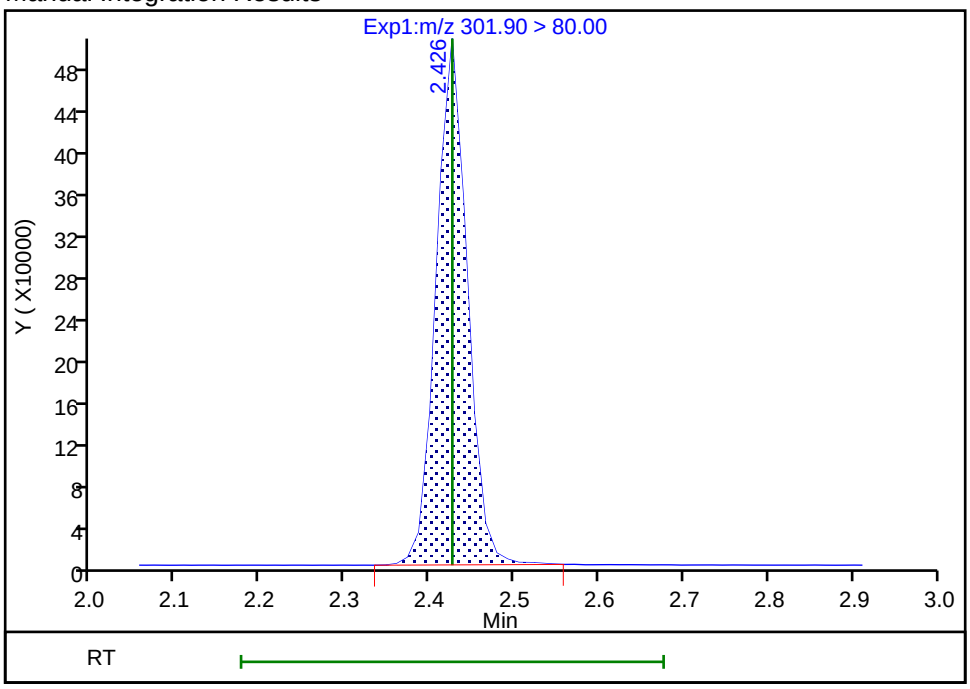
Processing Integration Results

RT: 2.43
Area: 1282012
Amount: 1.233078
Amount Units: ng/ml



Manual Integration Results

RT: 2.43
Area: 1276861
Amount: 1.228123
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:42:07
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-164298/1-A

Matrix: Solid Lab File ID: PA210226A04.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: SHAKE Date Extracted: 02/25/2021 15:08

Sample wt/vol: 5.00(g) Date Analyzed: 02/26/2021 13:11

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 164334 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.255	J	0.50	0.19
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.20	U	0.20	0.018
307-24-4	Perfluorohexanoic acid (PFHxA)	0.20	U	0.20	0.024
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.20	U	0.20	0.023
335-67-1	Perfluorooctanoic acid (PFOA)	0.20	U	0.20	0.014
375-95-1	Perfluorononanoic acid (PFNA)	0.20	U	0.20	0.020
335-76-2	Perfluorodecanoic acid (PFDA)	0.20	U	0.20	0.021
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.20	U	0.20	0.024
307-55-1	Perfluorododecanoic acid (PFDoA)	0.20	U	0.20	0.015
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.20	U	0.20	0.013
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.20	U	0.20	0.019
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.00992	J	0.20	0.0088
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.20	U	0.20	0.015
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.20	U	0.20	0.015
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.20	U	0.20	0.019
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.20	U	0.20	0.067
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.20	U	0.20	0.0088
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	U	2.00	0.034
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	U	2.00	0.030
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	2.00	U	2.00	0.022
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	2.00	U	2.00	0.029

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-164298/1-A

Matrix: Solid Lab File ID: PA210226A04.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: SHAKE Date Extracted: 02/25/2021 15:08

Sample wt/vol: 5.00(g) Date Analyzed: 02/26/2021 13:11

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 164334 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01892	13C4 PFHpA	111		50-150
STL00990	13C4 PFOA	106		50-150
STL00995	13C5 PFNA	100		50-150
STL00992	13C4 PFBA	75		25-150
STL00993	13C2 PFHxA	108		50-150
STL00996	13C2 PFDA	96		50-150
STL00997	13C2 PFUnA	90		50-150
STL00994	18O2 PFHxS	105		50-150
STL00998	13C2 PFDoA	91		50-150
STL00991	13C4 PFOS	105		50-150
STL01056	13C8 FOSA	101		25-150
STL01893	13C5 PFPeA	103		25-150
STL02116	13C2 PFTeDA	77		50-150
STL02118	d3-NMeFOSAA	87		50-150
STL02117	d5-NEtFOSAA	93		50-150
STL02279	M2-6:2 FTS	117		25-150
STL02337	13C3 PFBS	108		50-150
STL02280	M2-8:2 FTS	102		25-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A04.d
Lims ID: MB 200-164298/1-A
Client ID:
Sample Type: MB
Inject. Date: 26-Feb-2021 13:11:14 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: MB 200-164298/1-A
Misc. Info.: 200-0044972-004 Plate: 1 Rack: 2
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 01-Mar-2021 11:07:30 Calib Date: 22-Dec-2020 13:29:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1604

First Level Reviewer: deannd Date: 01-Mar-2021 11:07:30
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										M
217.00 > 172.00	2.073	2.082	-0.009	0.595	909464	0.9434		75.5	6155	M
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.073	2.082	-0.009	1.000	92792	0.1273			26.5	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.400	2.401	-0.001	0.689	895346	1.28		103	3096	
D 47 13C3 PFBS										
301.90 > 80.00	2.413	2.427	-0.014	0.693	1147755	1.25		108	457498	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.413	2.427	-0.014	1.000	5541	0.004961	Target=2.21		15.4	
298.90 > 99.00	2.413	2.427	-0.014	1.000	2664		2.08(1.11-3.32)		2.0	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.722	2.723	-0.001	0.781	93180	1.22		104	119	
D 7 13C2 PFHxA										
315.00 > 270.00	2.758	2.759	-0.001	0.792	987419	1.35		108	3387	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.855	2.869	-0.014	0.820	94470	0.7346		58.8	760	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.121	3.123	-0.002	1.000	4921	0.005825	Target=4.15		29.6	M
399.00 > 99.00	3.121	3.123	-0.002	1.000	2169		2.27(2.08-6.23)		1.3	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.121	3.123	-0.002	0.896	847723	1.24		105	2332	
D 9 13C4 PFHpA										
367.00 > 322.00	3.121	3.133	-0.012	0.896	970414	1.39		111	3141	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.121	3.133	-0.012	1.000	2739	0.003230	Target=3.66		0.9	M
363.00 > 169.00	3.121	3.133	-0.012	1.000	1122		2.44(1.83-5.49)		3.2	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
77 DONA										
377.00 > 251.00	3.154	3.165	-0.011	0.831	3207	0.001943	Target=2.43		6.6	
377.00 > 85.00	3.154	3.165	-0.011	0.831	2018		1.59(1.22-3.65)		3.1	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.465	3.475	-0.010	0.995	118169	1.39		117	508	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.465	3.475	-0.010	1.000	303	0.002737			6.8	M
D 14 13C4 PFOA										
417.00 > 372.00	3.483	3.484	-0.001	1.000	941058	1.33		106	2468	
* 62 13C2 PFOA										
415.00 > 370.00	3.483	3.484	-0.001		897055	1.25			1173	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.456	3.493	-0.037	0.992	4441	0.005442	Target=2.58		0.7	M
413.00 > 169.00	3.483	3.493	-0.010	1.000	1352		3.28(1.29-3.87)		4.8	M
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.794	3.796	-0.002	1.000	2150	0.003792	Target=5.65		6.0	RM
499.00 > 99.00	3.785	3.796	-0.011	0.997	792		2.71(2.82-8.47)		2.7	M
D 18 13C4 PFOS										
503.00 > 80.00	3.794	3.796	-0.002	1.089	589174	1.26		105	2828	
D 19 13C5 PFNA										
468.00 > 423.00	3.814	3.816	-0.002	1.095	784365	1.25		100	3984	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.836	3.816	0.020	1.006	2943	0.004237	Target=7.44		0.5	M
463.00 > 169.00	3.824	3.816	0.008	1.003	278		10.59(3.72-11.16)		3.7	M
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.964	3.957	0.007	1.045	913	0.001443			6.6	M
D 23 13C2 PFDA										
515.00 > 470.00	4.104	4.118	-0.014	1.178	715285	1.19		95.5	4074	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.115	4.129	-0.014	1.181	107099	1.22		102	452	
D 21 13C8 FOSA										
506.00 > 78.00	4.204	4.207	-0.003	1.207	1111239	1.26		101	2979	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.215	4.217	-0.003	1.002	2242	0.002517			14.3	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.246	4.260	-0.014	1.219	47034	1.08		86.6	1251	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.280	4.260	0.020	1.008	128	0.003838			1.6	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.347	4.350	-0.003	1.146	709	0.002102	Target=2.80		9.6	M
599.00 > 99.00	4.336	4.350	-0.014	1.143	495		1.43(1.40-4.19)		2.9	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.369	4.373	-0.004	1.254	555165	1.13		90.3	2904	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.380	4.384	-0.004	1.258	48582	1.16		92.5	554	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.413	4.395	0.018	1.008	270	0.007505			4.5	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
66 11-Chloroeicosafluoro-3-oxaundec										M
631.00 > 451.00	4.456	4.473	-0.017	1.174	961	0.001464			33.0	M
D 36 13C2 PFDoA										
615.00 > 570.00	4.601	4.606	-0.005	1.321	588381	1.13		90.6	2653	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.601	4.606	-0.005	1.000	1880	0.003631	Target=6.91		0.7	M
613.00 > 169.00	4.601	4.606	-0.005	1.000	236		7.97(3.45-10.36)		7.5	M
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.601	4.616	-0.015	1.118	92	0.002938			3.1	M
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.783	4.770	0.013	1.261	350	0.002821	Target=0.51		4.9	M
699.00 > 99.00	4.765	4.770	-0.005	1.256	504		0.69(0.26-0.77)		3.2	M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.801	4.806	-0.005	1.043	1119	0.002663	Target=4.39		0.7	M
663.00 > 169.00	4.810	4.806	0.004	1.045	389		2.88(2.20-6.59)		8.1	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.995	4.998	-0.003	1.434	371508	0.9671		77.4	950	
42 Perfluorotetradecanoic acid										Ma
713.00 > 169.00	4.995	4.998	-0.003	1.000	344	0.006241	Target=1.06		13.5	a
713.00 > 219.00	4.975	4.998	-0.023	0.996	336		1.02(0.53-1.59)		11.0	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.327	5.329	-0.002	1.530	394126	0.9604		76.8	2011	
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.327	5.329	-0.002	1.000	6408	0.006569	Target=3.84		2.2	M
813.00 > 169.00	5.327	5.329	-0.002	1.000	1151		5.57(1.92-5.76)		40.1	

QC Flag Legend

Processing Flags
R - Failed Signal Ratio Test
Review Flags
M - Manually Integrated
a - User Assigned ID

Report Date: 01-Mar-2021 11:07:30 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A04.d

Injection Date: 26-Feb-2021 13:11:14 Instrument ID: LC812

Lims ID: MB 200-164298/1-A

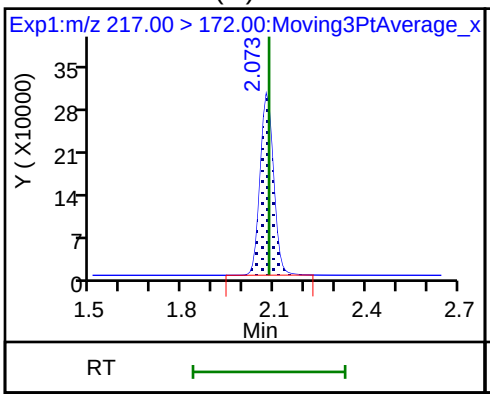
Client ID:

Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 4

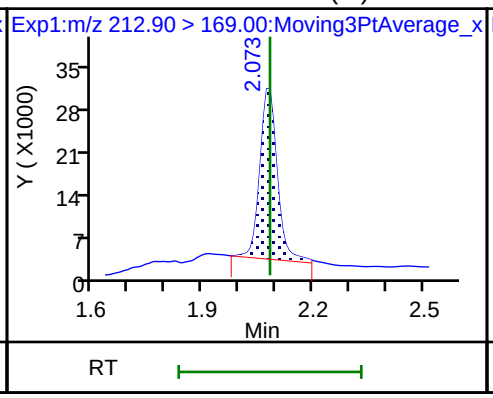
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

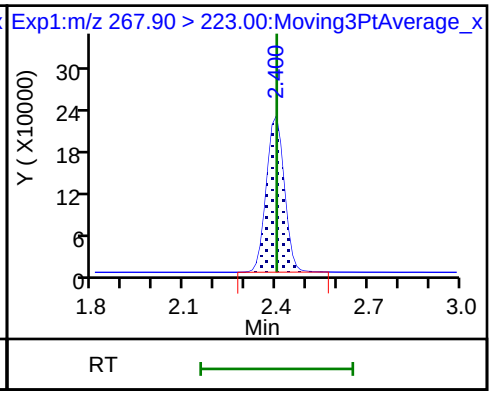
D 1 13C4 PFBA (M)



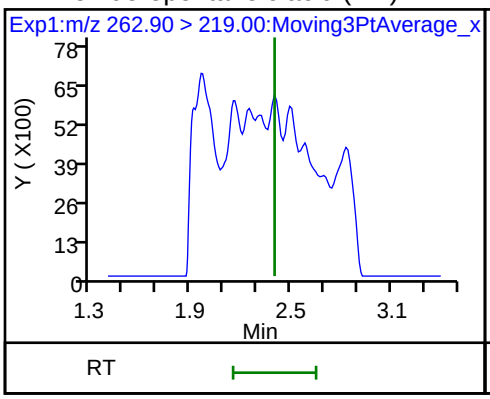
2 Perfluorobutanoic acid (M)



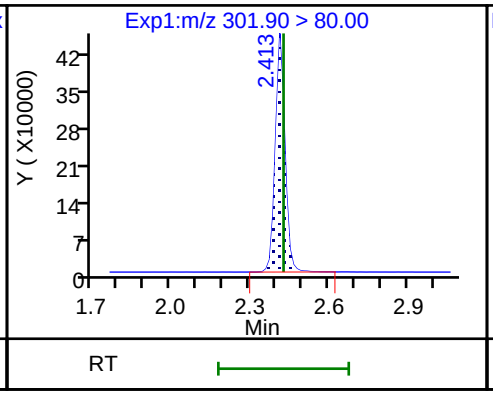
D 3 13C5 PFPeA



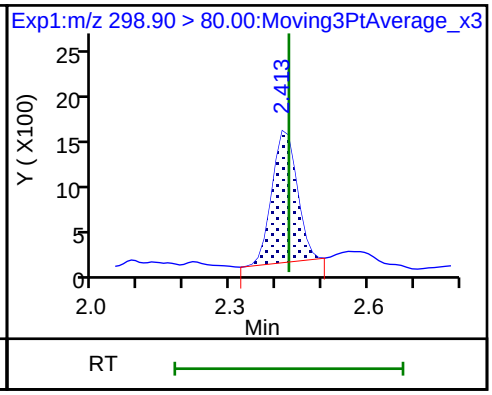
4 Perfluoropentanoic acid (ND)



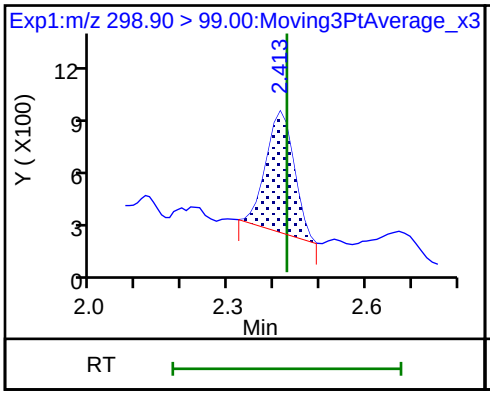
D 47 13C3 PFBS



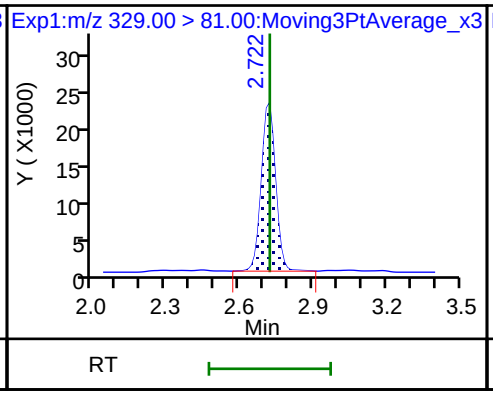
5 Perfluorobutanesulfonic acid



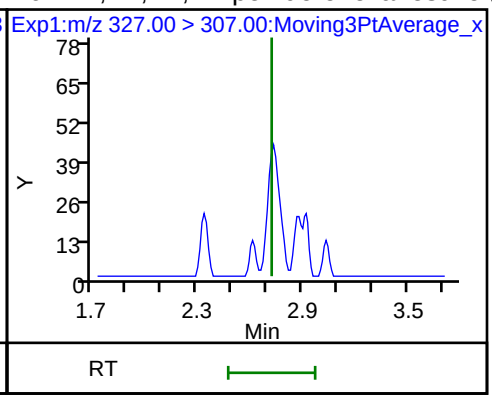
5 Perfluorobutanesulfonic acid



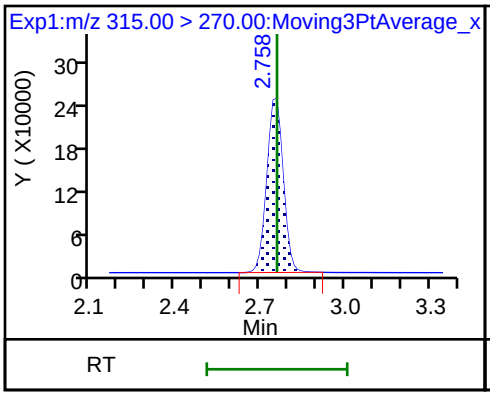
D 60 M2-4:2 FTS



61 1H,1H,2H,2H-perfluorohexanesulfo (ND)



D 7 13C2 PFHxA



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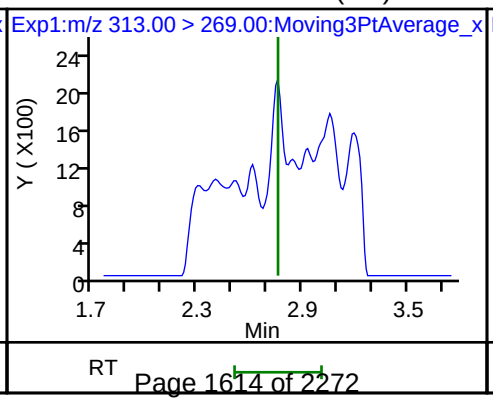
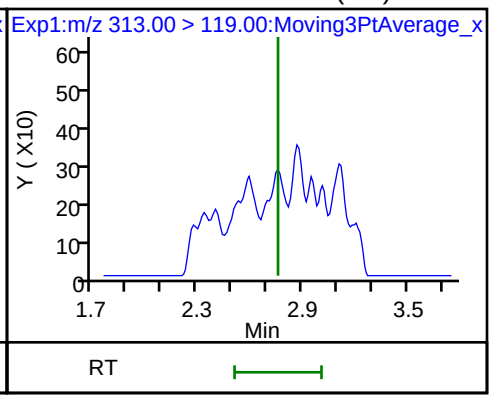
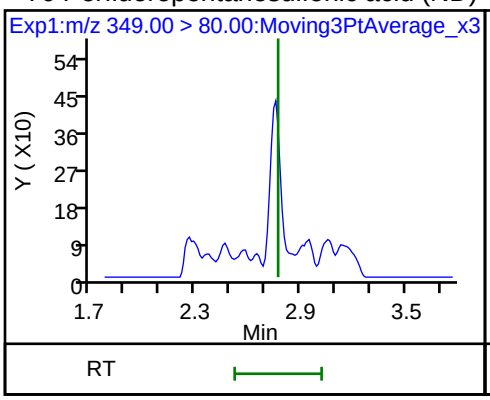


6 Perfluorohexanoic acid (ND)



70 Perfluoropentanesulfonic acid (ND)



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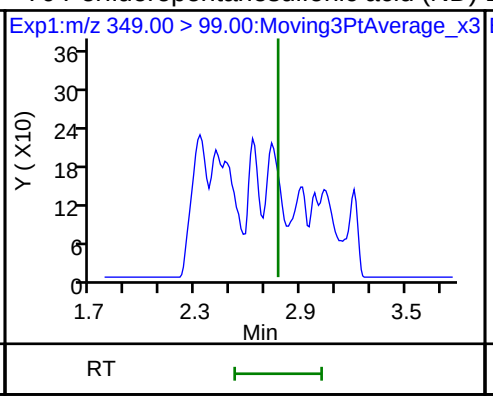
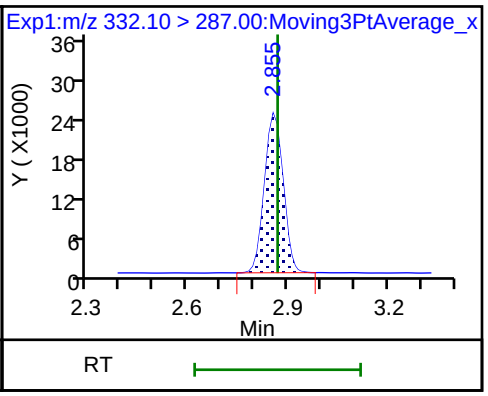
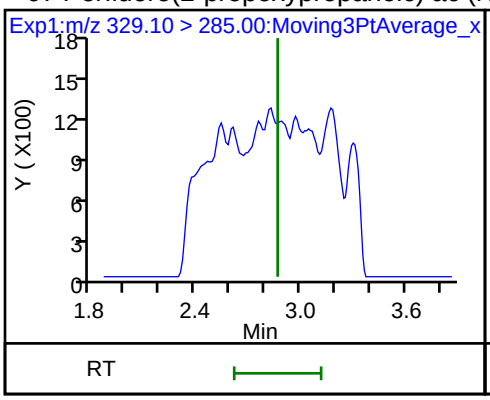


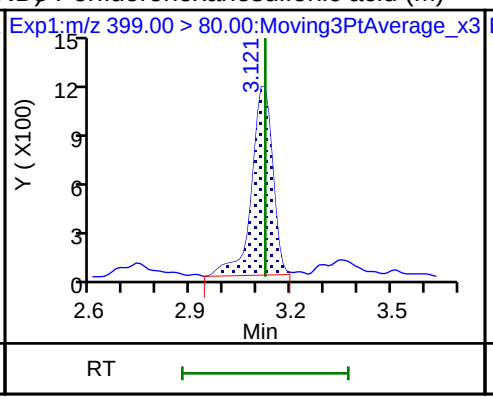
D 64 13C3 HFPO-DA



67 Perfluoro(2-propoxypropanoic) ac (ND)



8 Perfluorohexanesulfonic acid (M)



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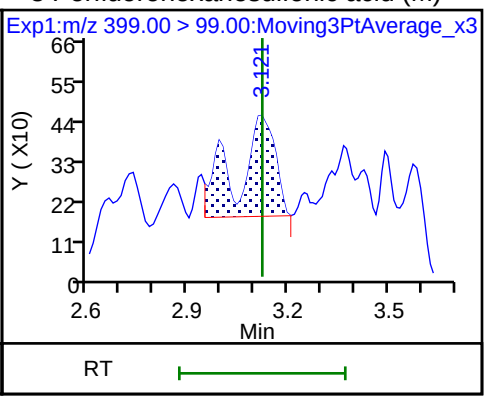
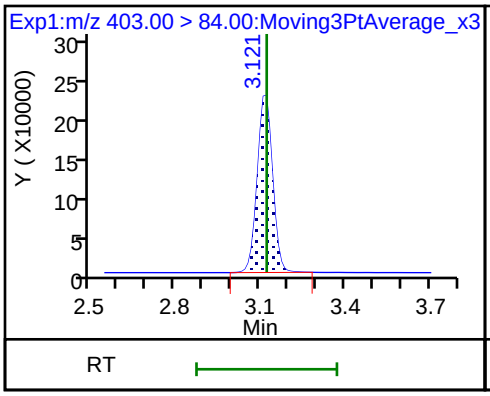
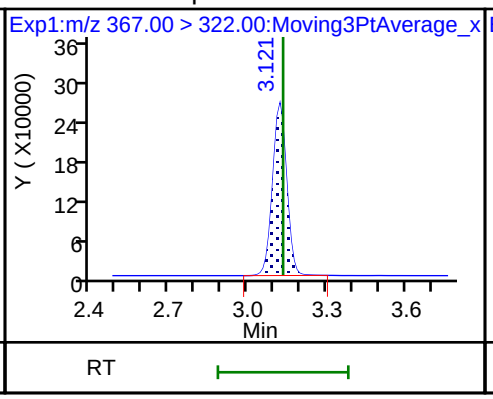


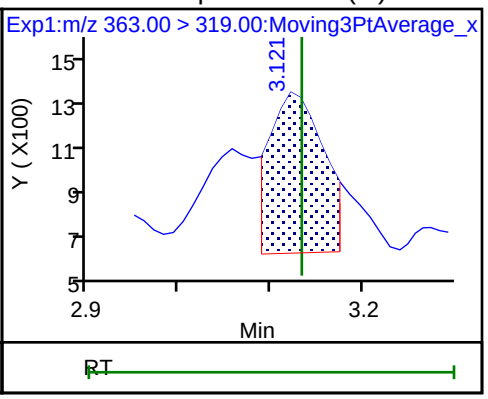
D 11 18O2 PFHxS



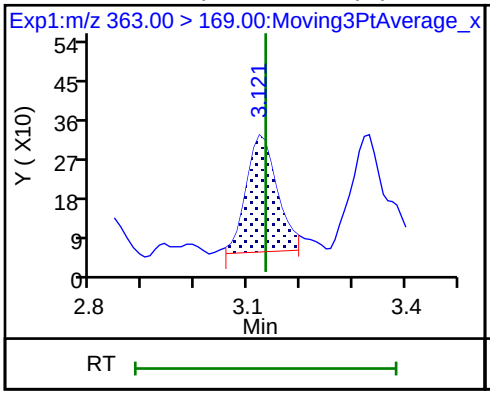
D 9 13C4 PFHpA



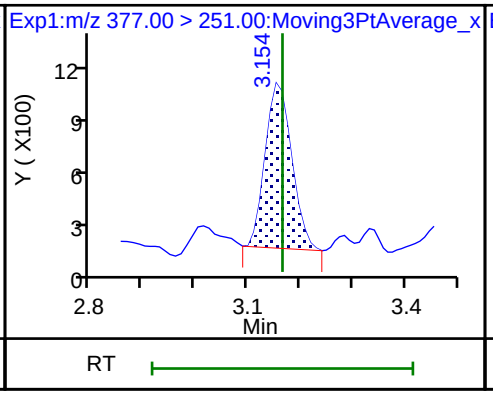
10 Perfluoroheptanoic acid (M)



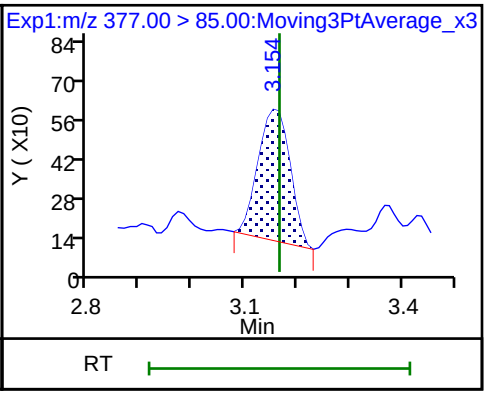
10 Perfluoroheptanoic acid (M)



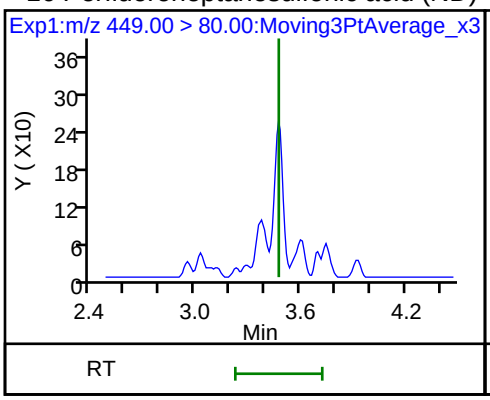
77 DONA



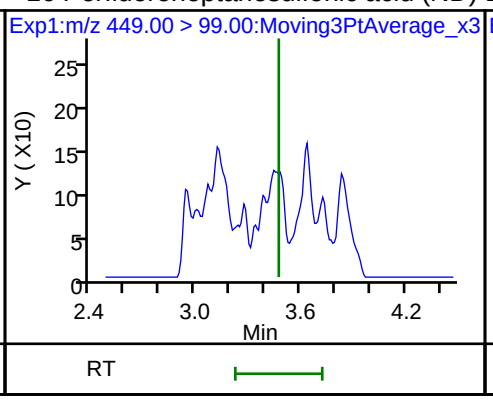
77 DONA

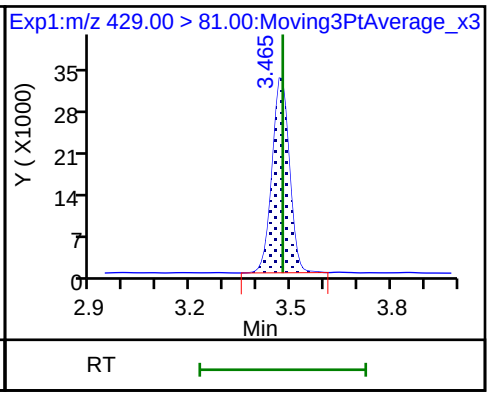


16 Perfluoroheptanesulfonic acid (ND)

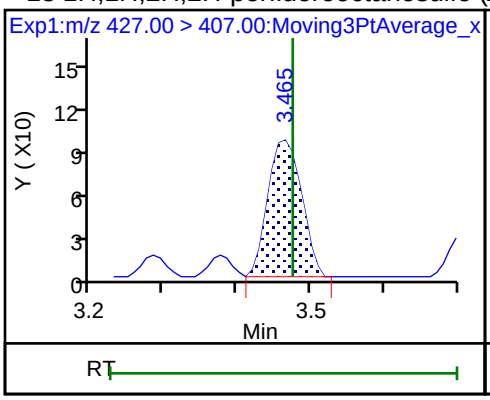


16 Perfluoroheptanesulfonic acid (ND) D 12 M2-6:2 FTS

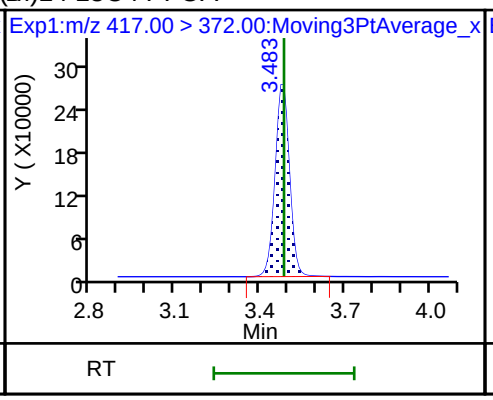




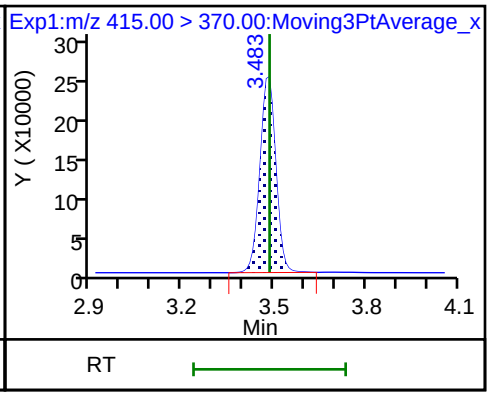
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



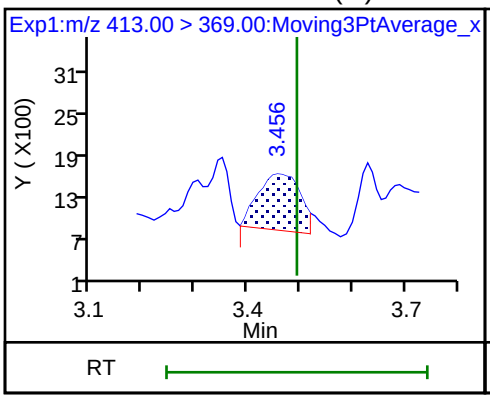
14 13C4 PFOA



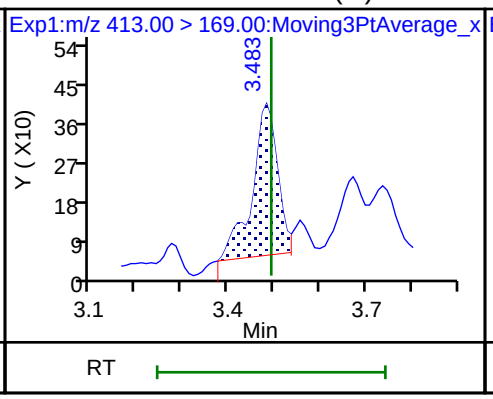
* 62 13C2 PFOA



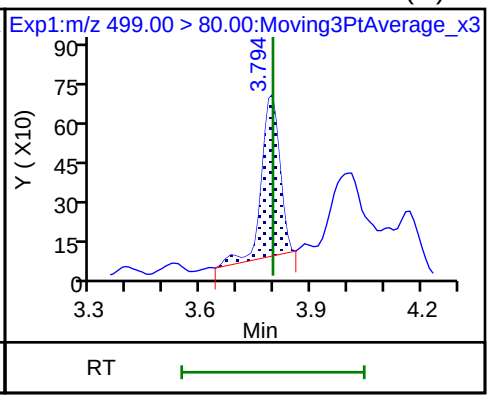
15 Perfluorooctanoic acid (M)



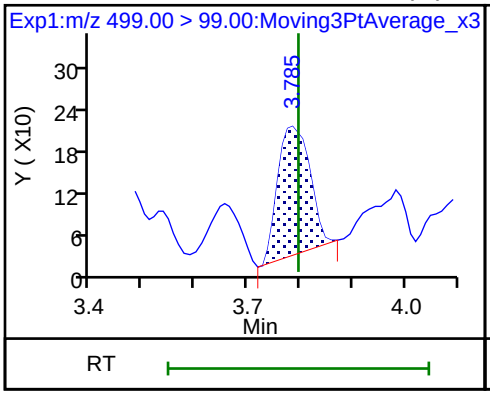
15 Perfluorooctanoic acid (M)



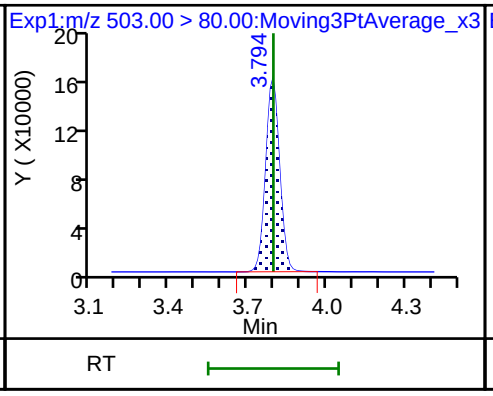
17 Perfluorooctanesulfonic acid (M)



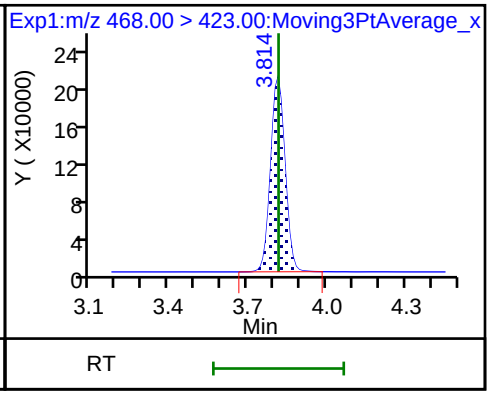
17 Perfluorooctanesulfonic acid (M)



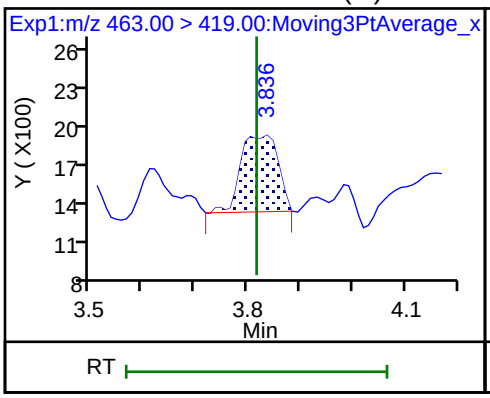
D 18 13C4 PFOS



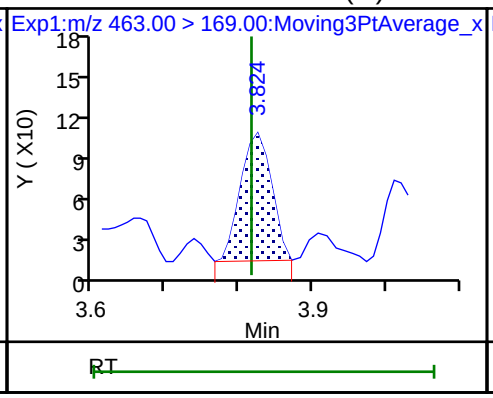
D 19 13C5 PFNA



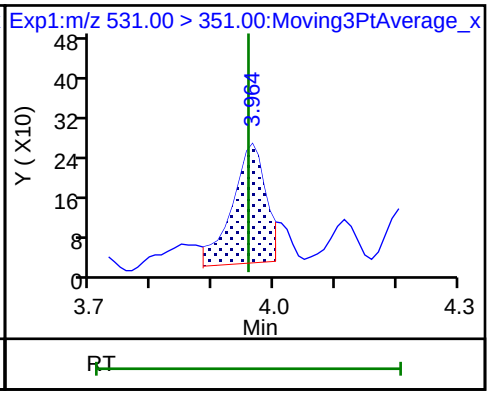
20 Perfluorononanoic acid (M)



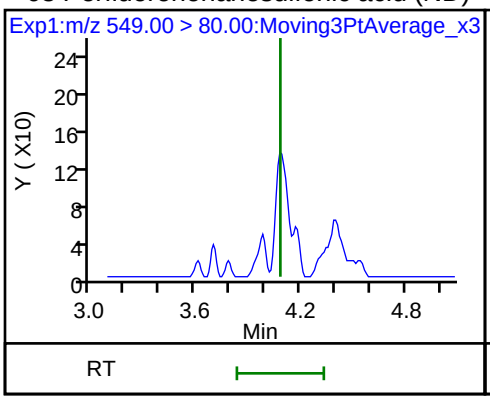
20 Perfluorononanoic acid (M)



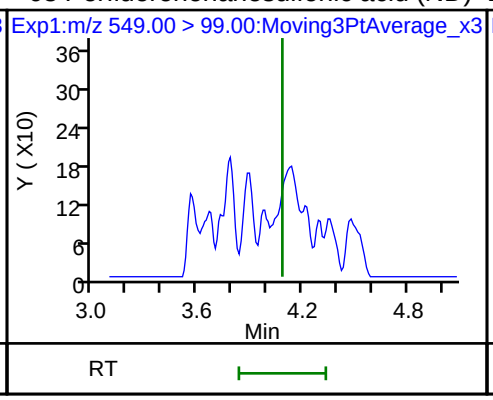
69 9-Chlorohexadecafluoro-3-oxanona (M)



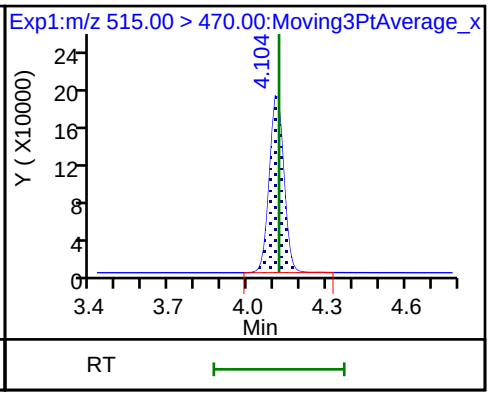
68 Perfluorononanesulfonic acid (ND)



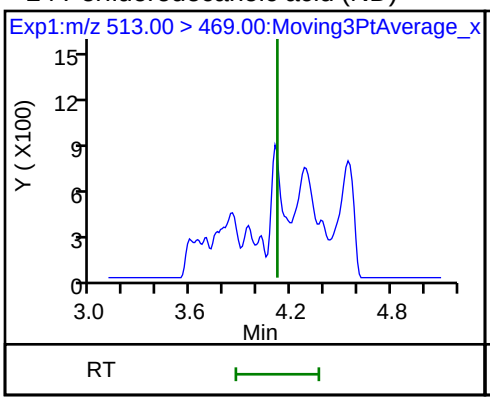
68 Perfluorononanesulfonic acid (ND)



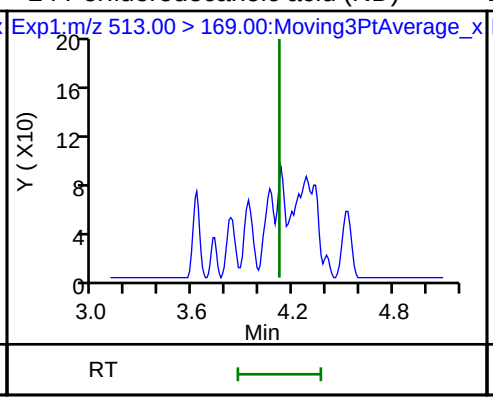
D 23 13C2 PFDA



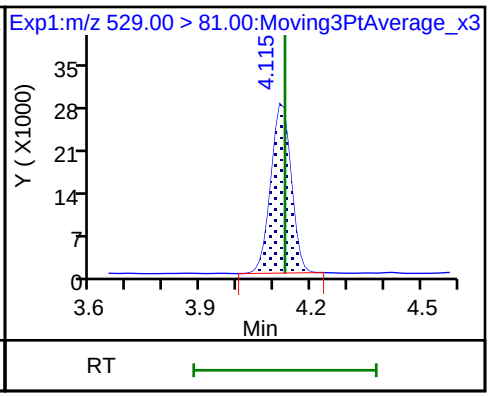
24 Perfluorodecanoic acid (ND)



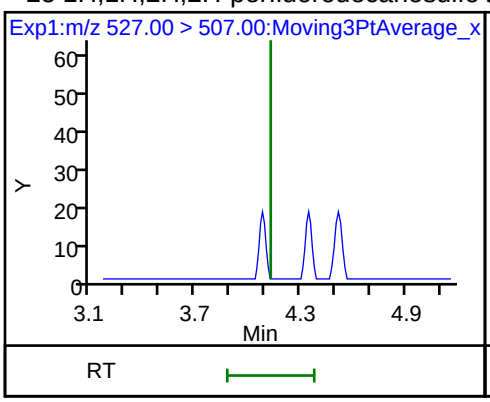
24 Perfluorodecanoic acid (ND)



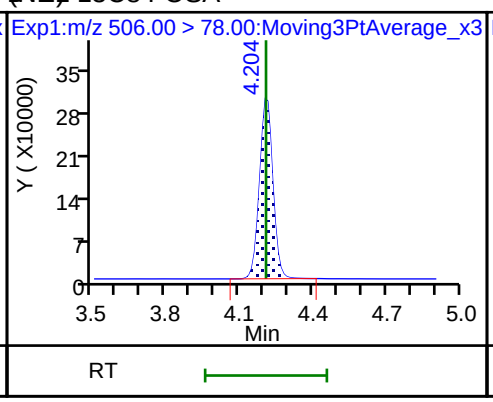
D 26 M2-8:2 FTS



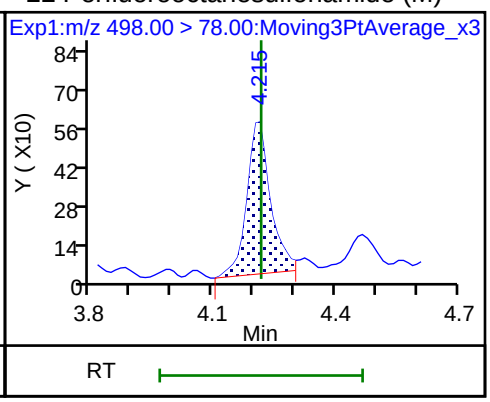
25 1H,1H,2H,2H-perfluorodecanesulfo (ND)



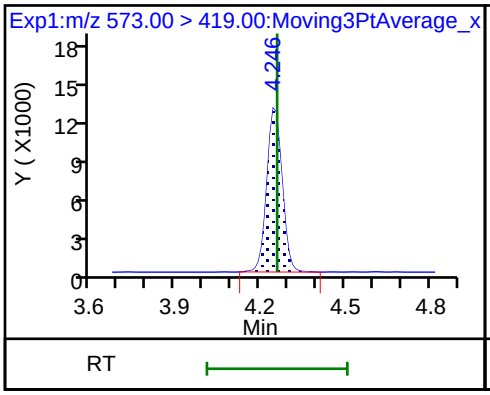
D 21 13C8 FOSA



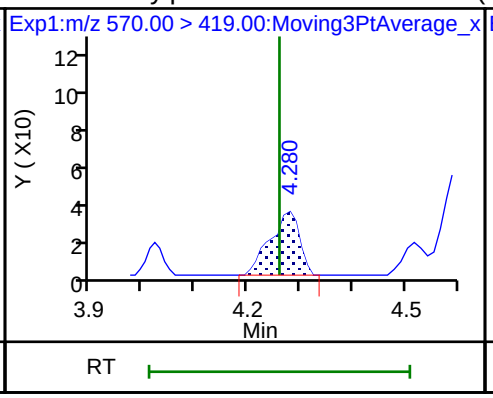
22 Perfluorooctanesulfonamide (M)



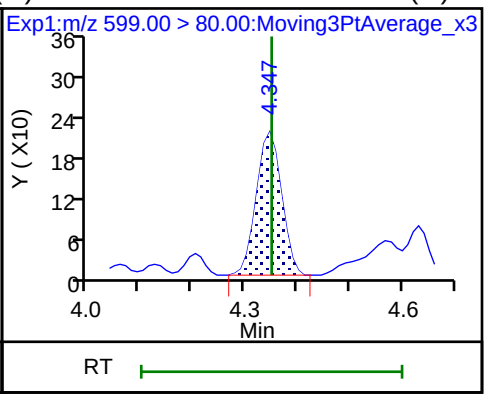
D 27 d3-NMeFOSAA



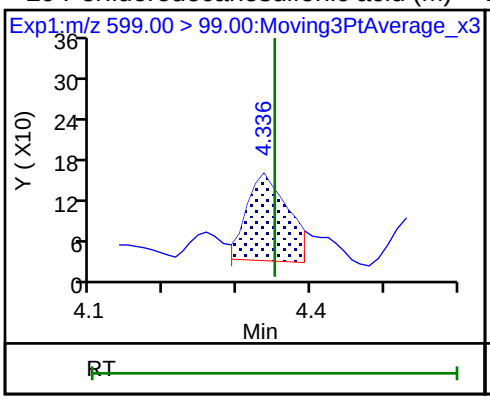
28 N-methylperfluorooctanesulfonami (M)



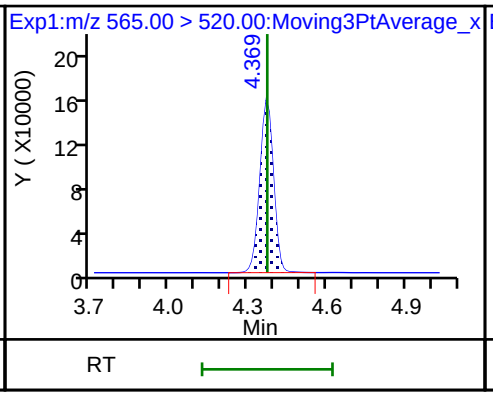
29 Perfluorodecanesulfonic acid (M)



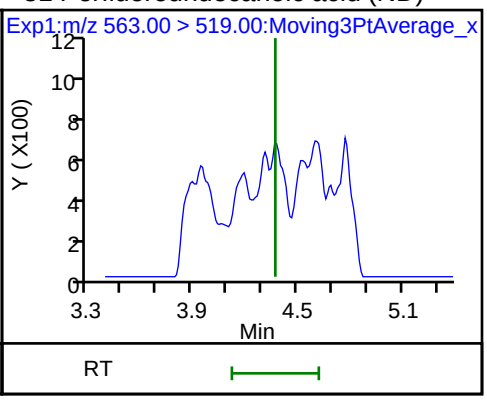
29 Perfluorodecanesulfonic acid (M)



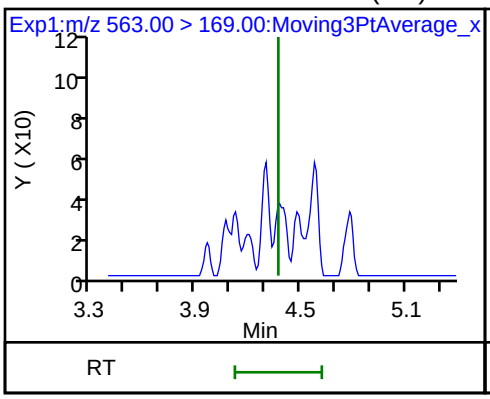
D 30 13C2 PFUnA



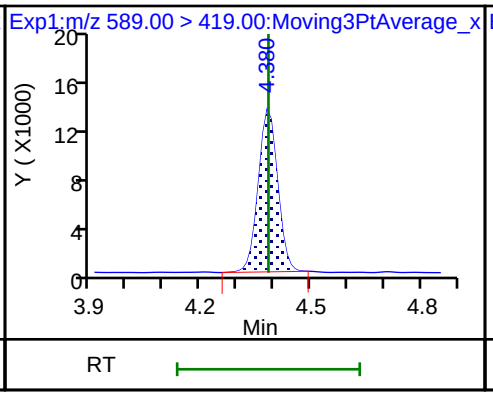
31 Perfluoroundecanoic acid (ND)



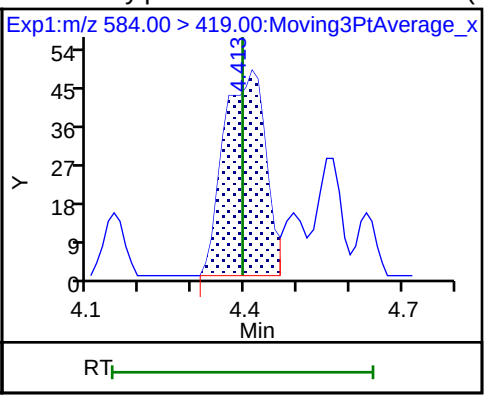
31 Perfluoroundecanoic acid (ND)



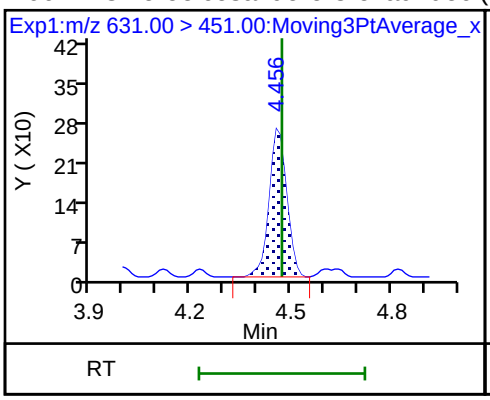
D 32 d5-NEtFOSAA



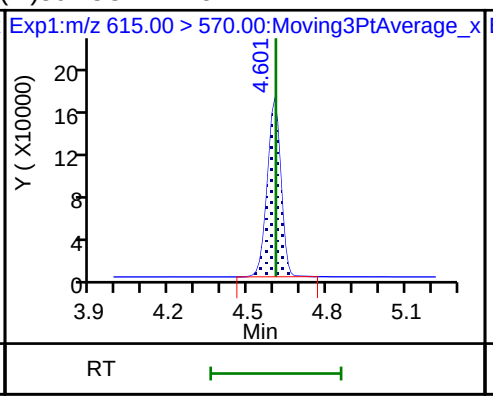
33 N-ethylperfluorooctanesulfonamid (M)



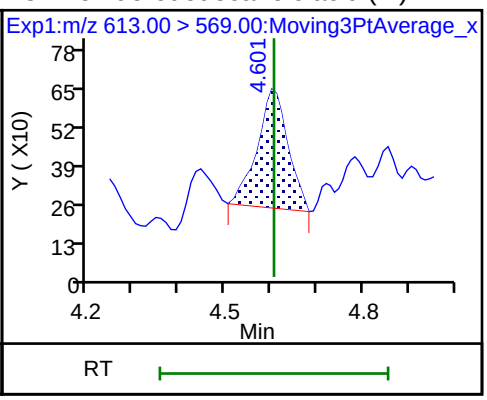
66 11-Chloroeicosafluoro-3-oxaundec (M)



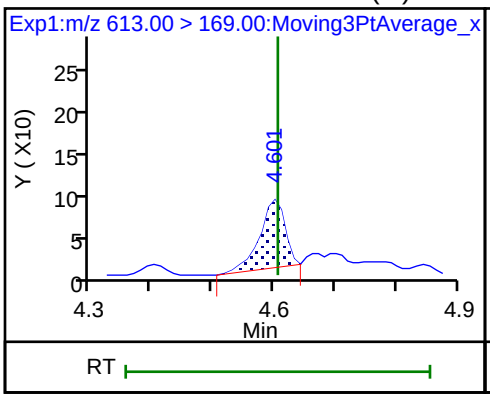
D 36 13C2 PFDoA



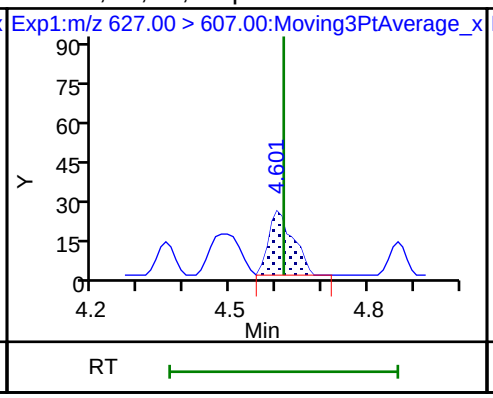
37 Perfluorododecanoic acid (M)



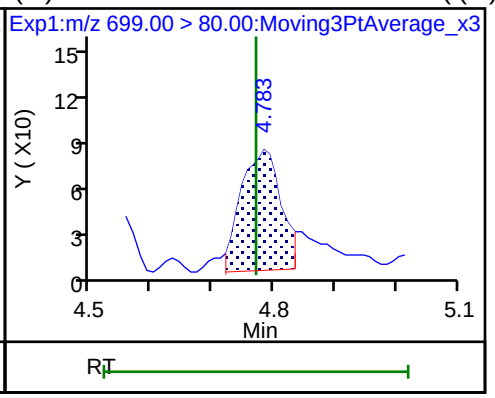
37 Perfluorododecanoic acid (M)



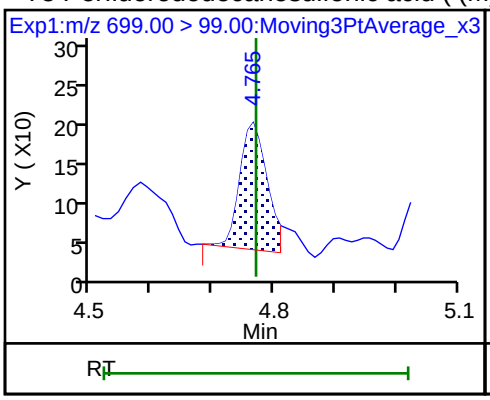
74 1H,1H,2H,2H-perfluorododecanesul (M)



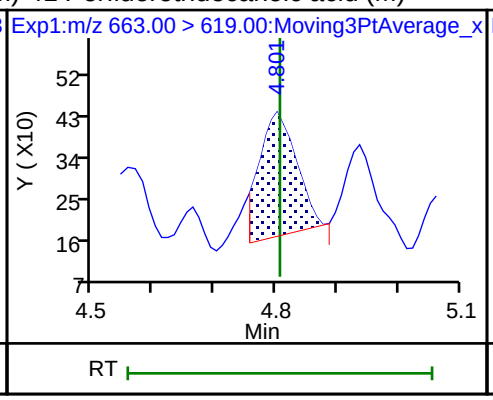
75 Perfluorododecanesulfonic acid ((M)



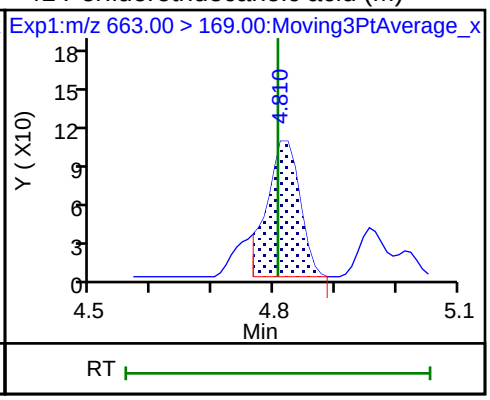
75 Perfluorododecanesulfonic acid ((M)



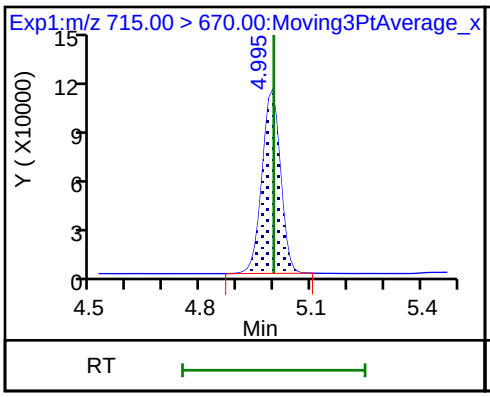
41 Perfluorotridecanoic acid (M)



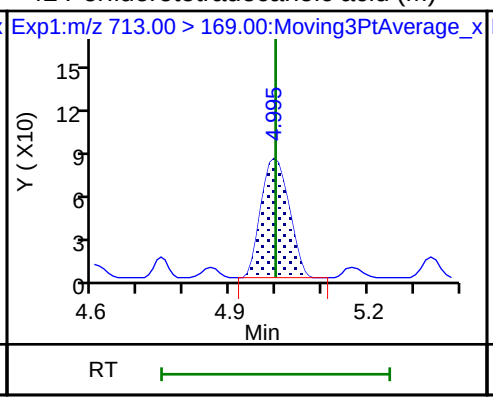
41 Perfluorotridecanoic acid (M)



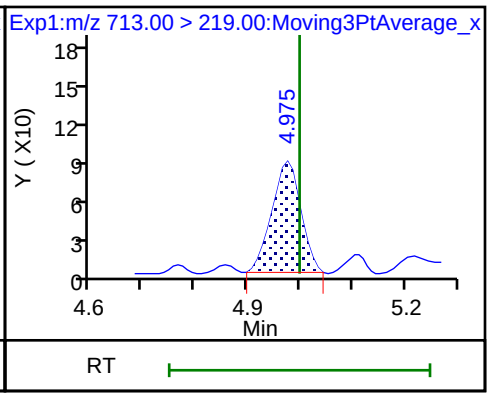
D 43 13C2 PFTeDA



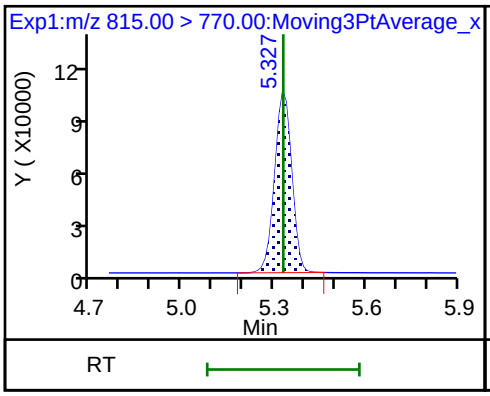
42 Perfluorotetradecanoic acid (M)



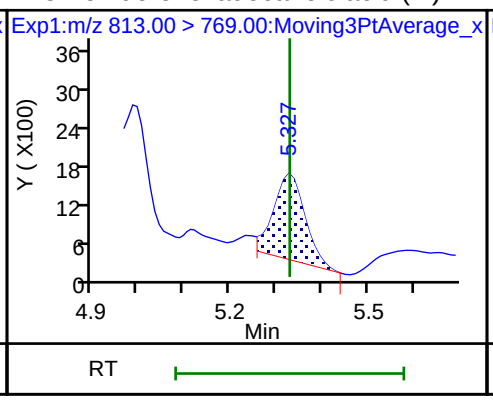
42 Perfluorotetradecanoic acid



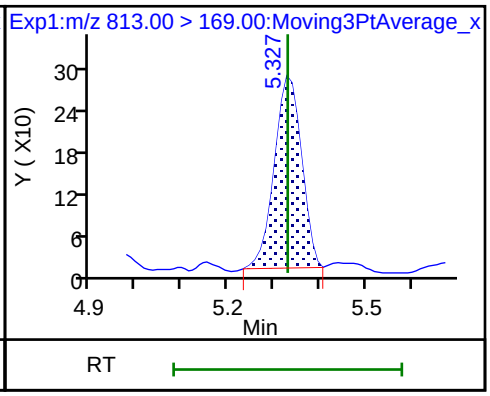
D 44 13C2 PFHxDA



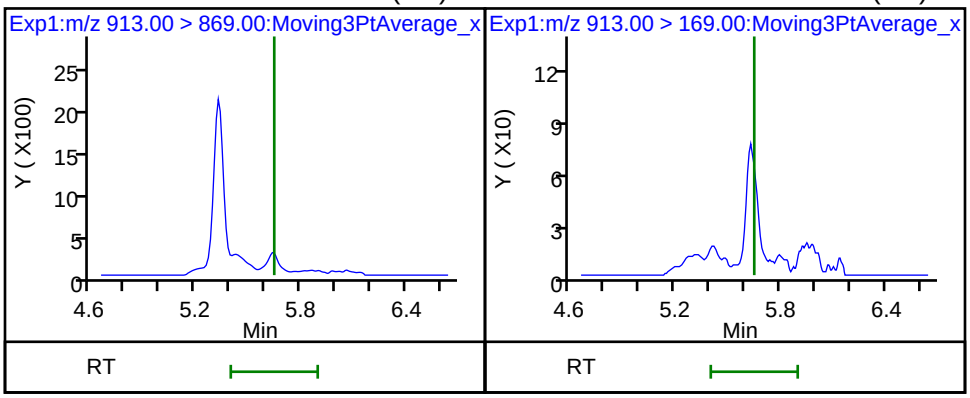
45 Perfluorohexadecanoic acid (M)



45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid (ND) 46 Perfluorooctadecanoic acid (ND)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

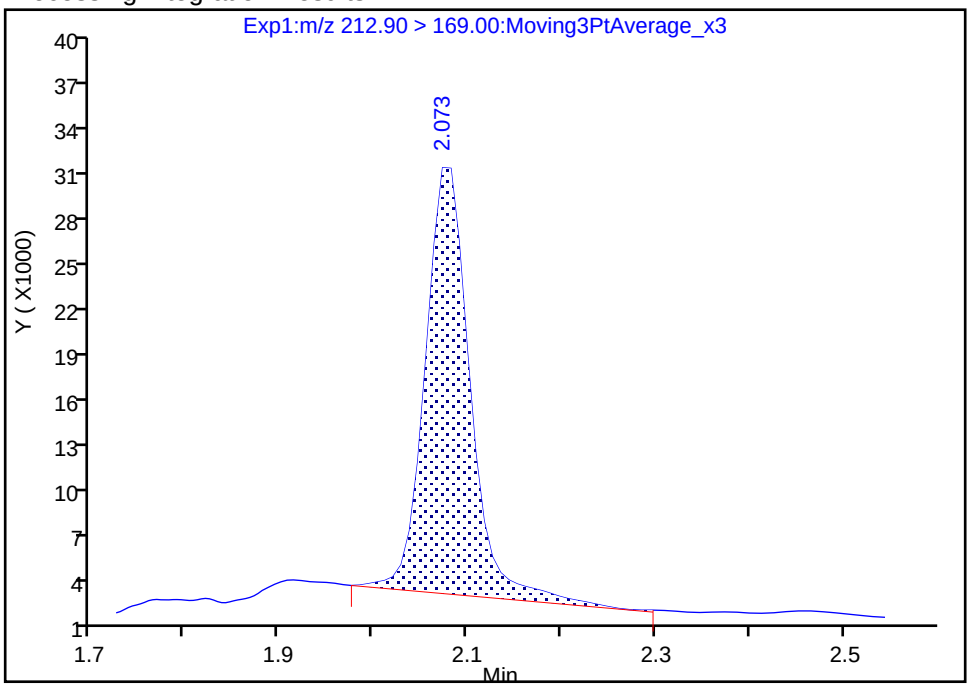
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A04.d				
Injection Date:	26-Feb-2021 13:11:14	Instrument ID:	LC812		
Lims ID:	MB 200-164298/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

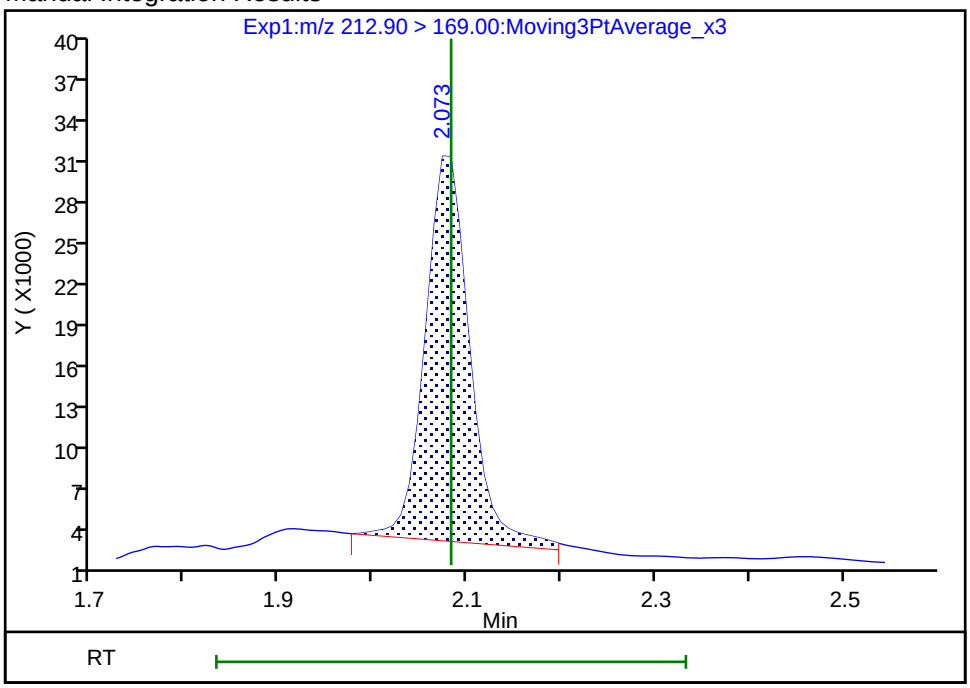
Processing Integration Results

RT: 2.07
Area: 94068
Amount: 0.128546
Amount Units: ng/ml



Manual Integration Results

RT: 2.07
Area: 92792
Amount: 0.127281
Amount Units: ng/ml



Reviewer: deannd, 01-Mar-2021 11:06:42

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

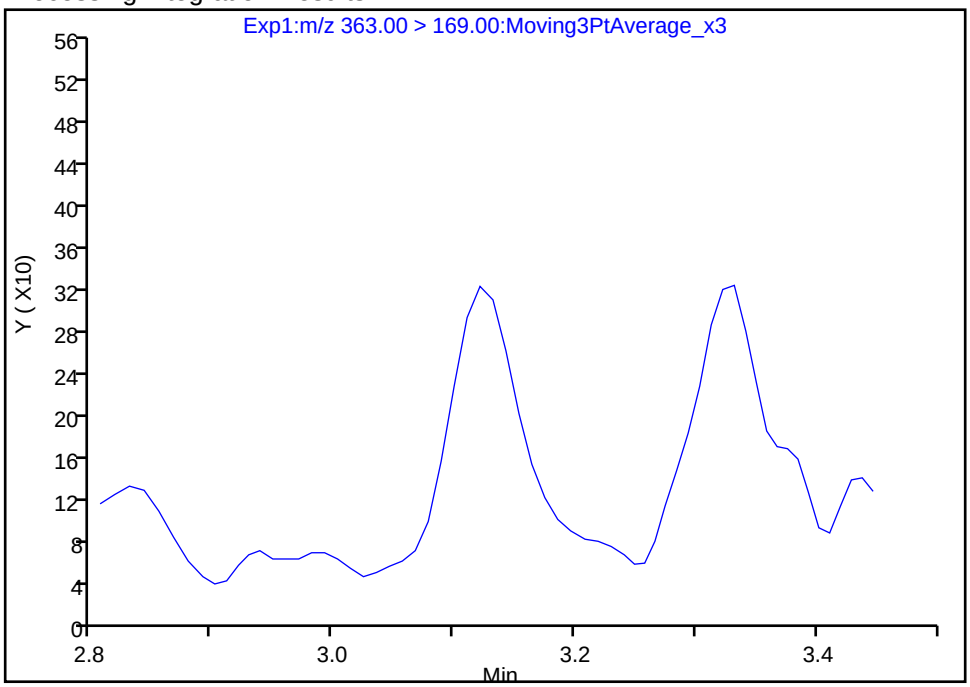
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A04.d				
Injection Date:	26-Feb-2021 13:11:14	Instrument ID:	LC812		
Lims ID:	MB 200-164298/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

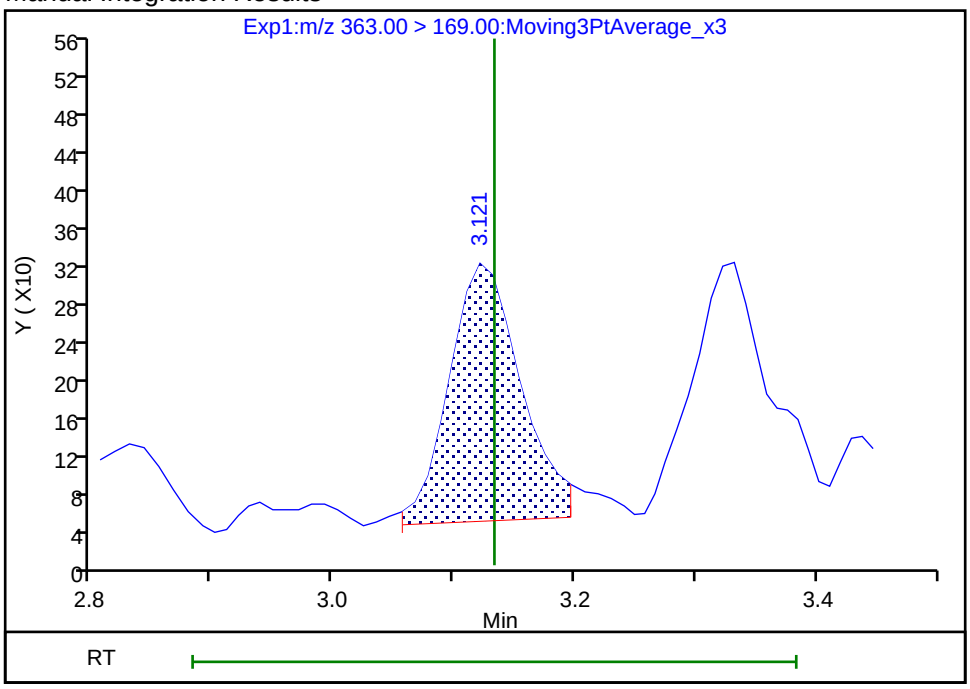
Not Detected
Expected RT: 3.13

Processing Integration Results



Manual Integration Results

RT: 3.12
Area: 1122
Amount: 0.003230
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:39:56
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

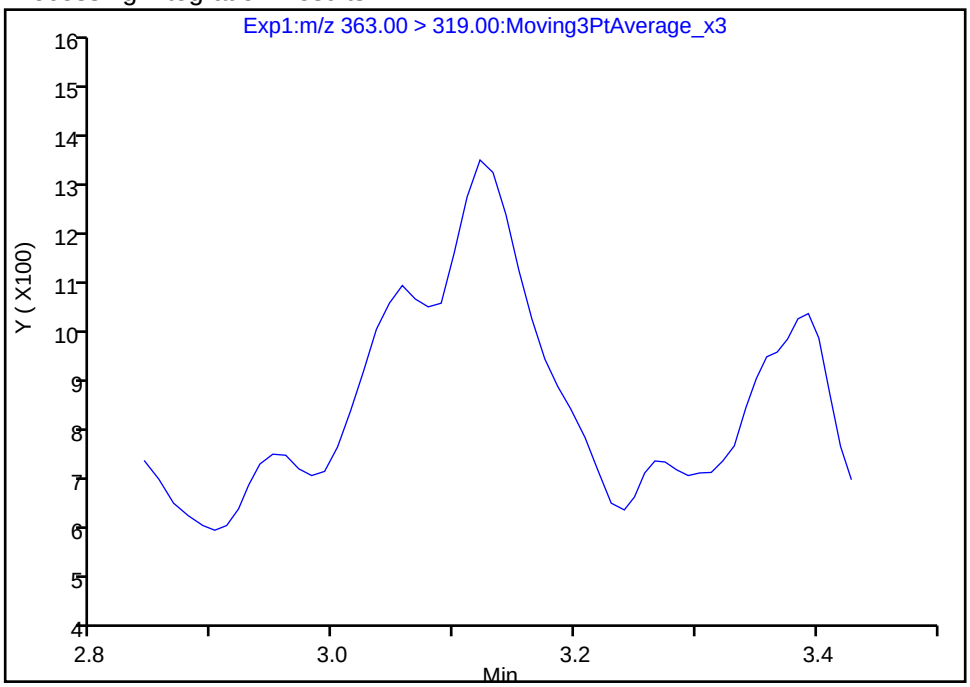
Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A04.d
Injection Date: 26-Feb-2021 13:11:14 Instrument ID: LC812
Lims ID: MB 200-164298/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

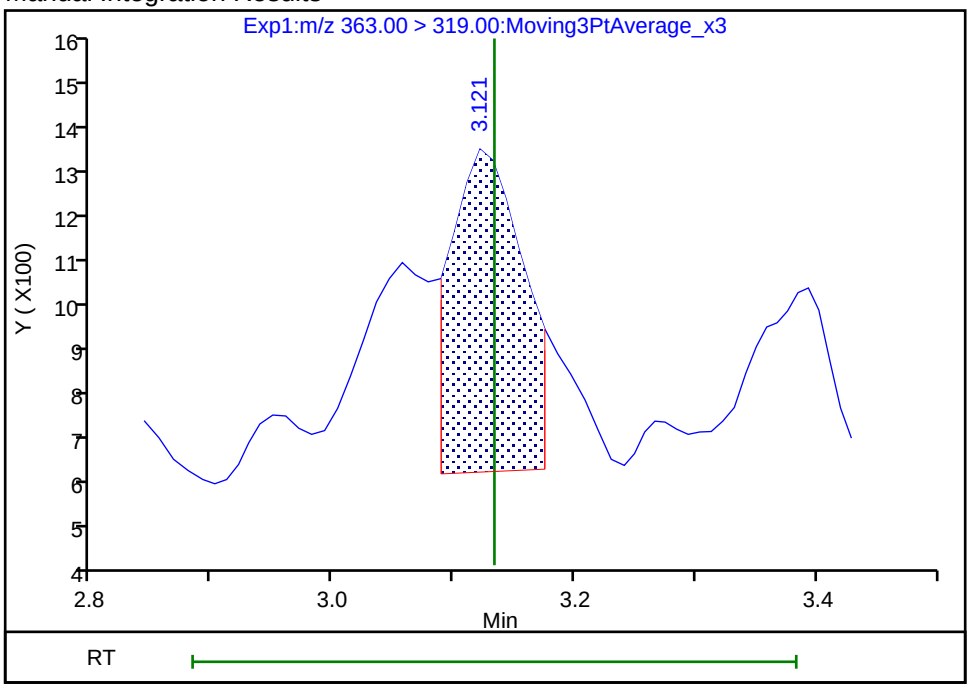
Not Detected
Expected RT: 3.13

Processing Integration Results



Manual Integration Results

RT: 3.12
Area: 2739
Amount: 0.003230
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:40:16
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

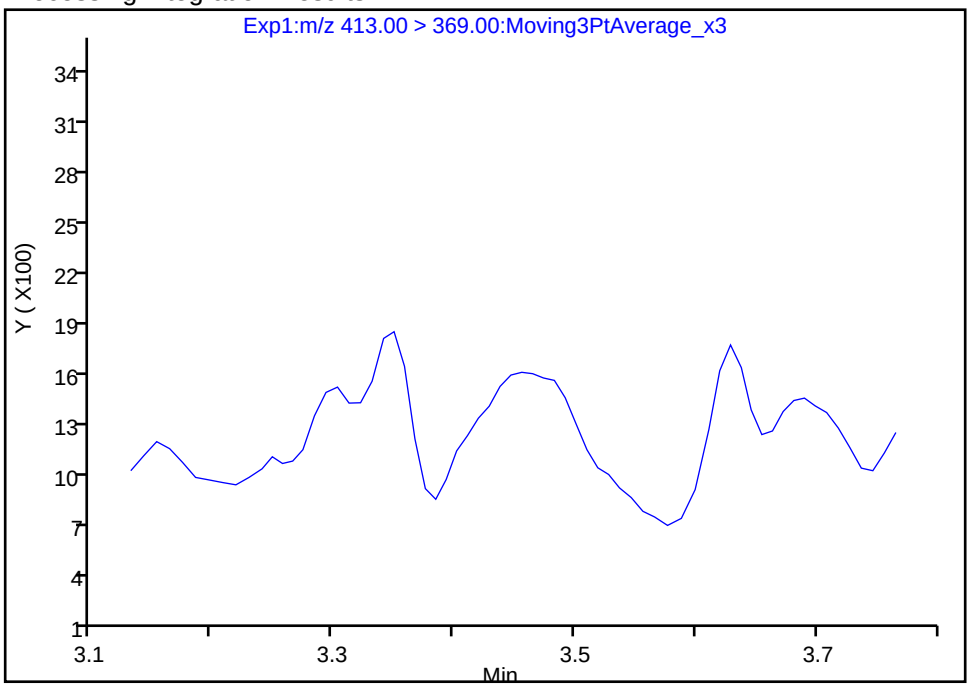
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A04.d				
Injection Date:	26-Feb-2021 13:11:14	Instrument ID:	LC812		
Lims ID:	MB 200-164298/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

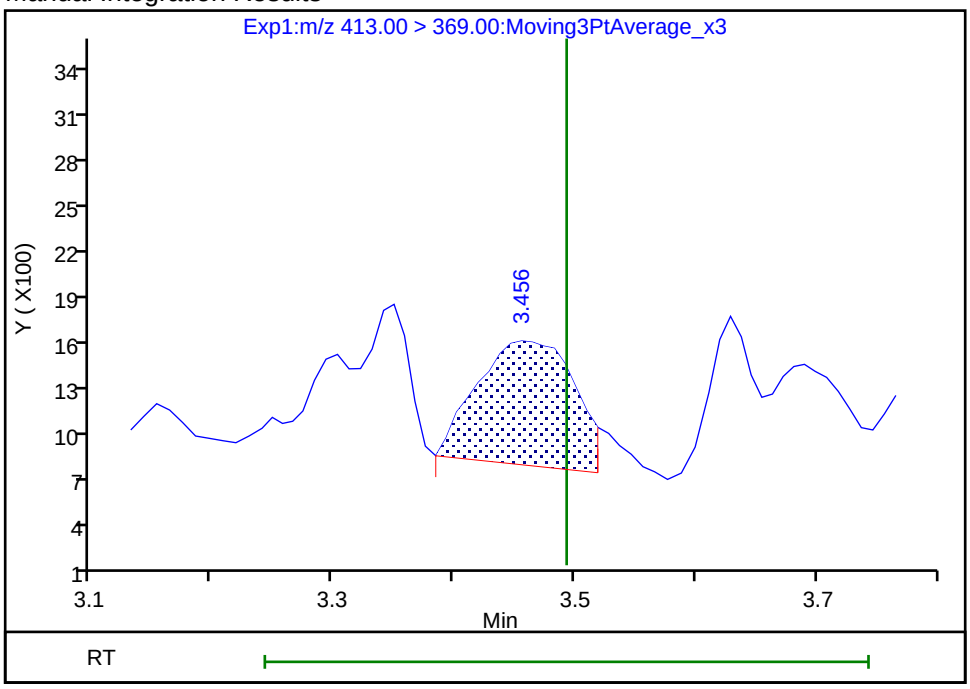
Not Detected
Expected RT: 3.49

Processing Integration Results



Manual Integration Results

RT: 3.46
Area: 4441
Amount: 0.005442
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:40:58
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

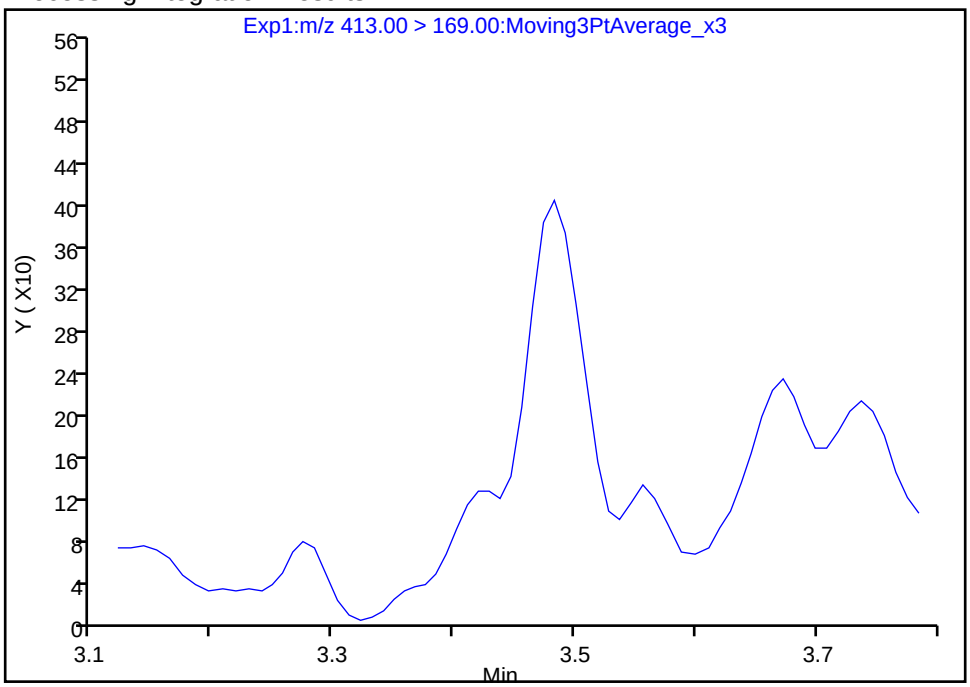
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A04.d				
Injection Date:	26-Feb-2021 13:11:14	Instrument ID:	LC812		
Lims ID:	MB 200-164298/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

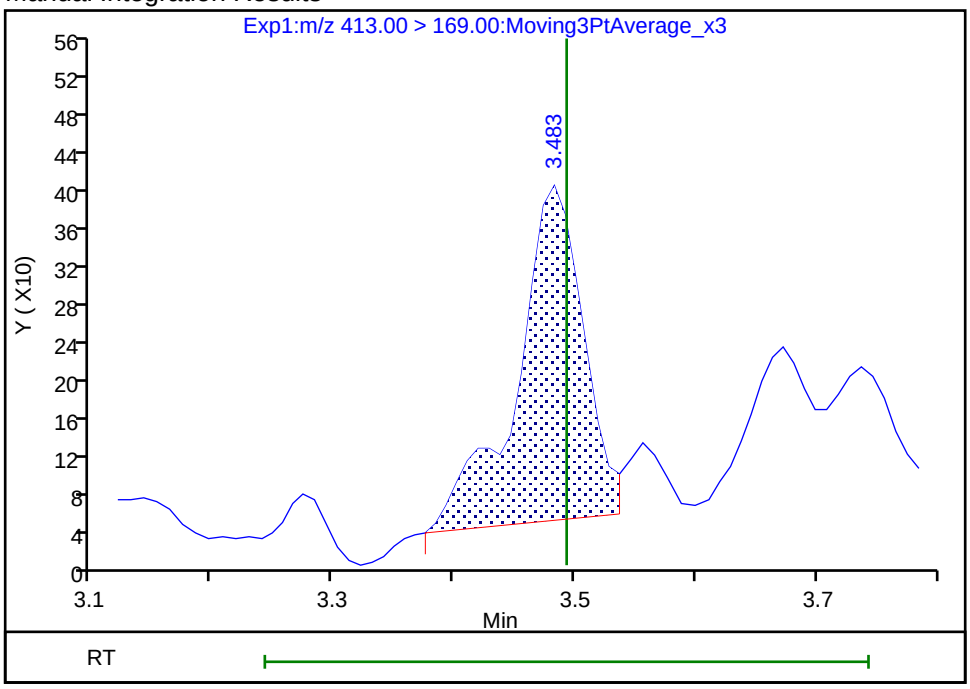
Not Detected
Expected RT: 3.49

Processing Integration Results



Manual Integration Results

RT: 3.48
Area: 1352
Amount: 0.005442
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:41:13
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

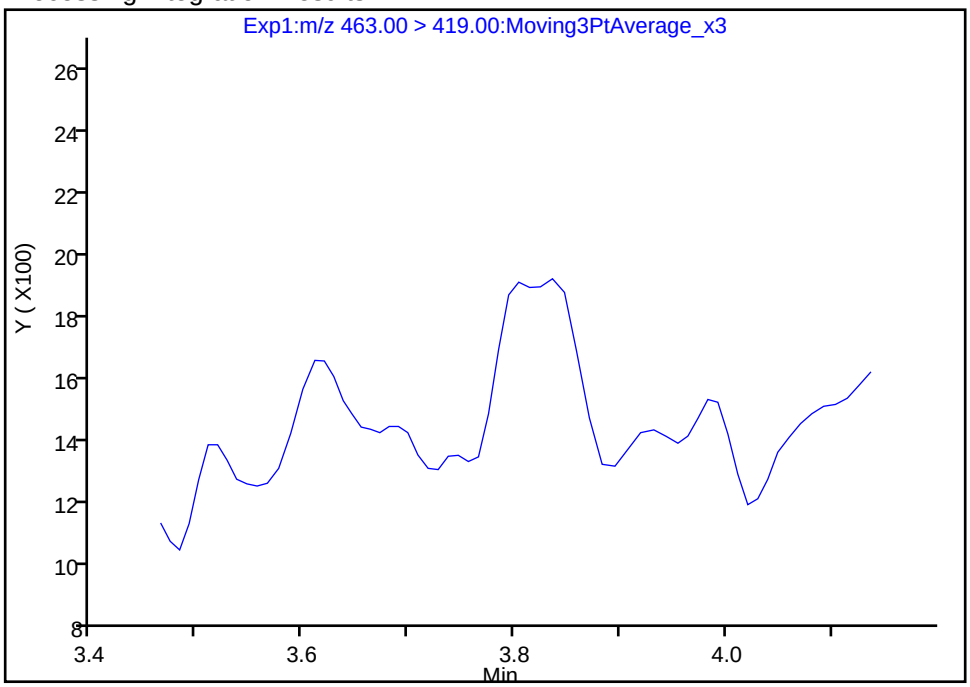
Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A04.d
Injection Date: 26-Feb-2021 13:11:14 Instrument ID: LC812
Lims ID: MB 200-164298/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

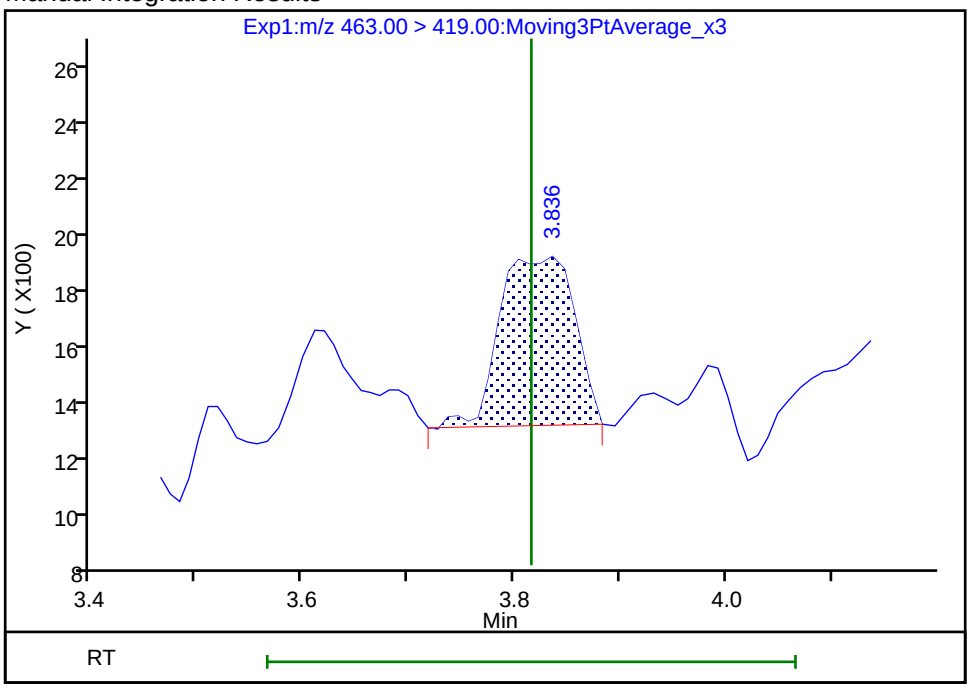
Not Detected
Expected RT: 3.82

Processing Integration Results



Manual Integration Results

RT: 3.84
Area: 2943
Amount: 0.004237
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:41:39
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

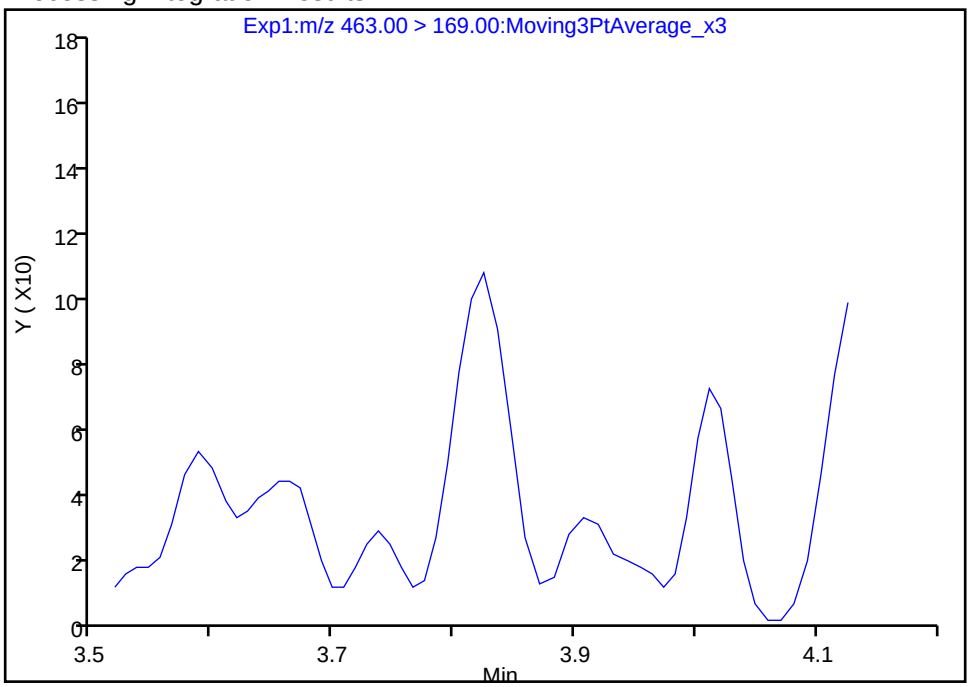
Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A04.d
Injection Date: 26-Feb-2021 13:11:14 Instrument ID: LC812
Lims ID: MB 200-164298/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

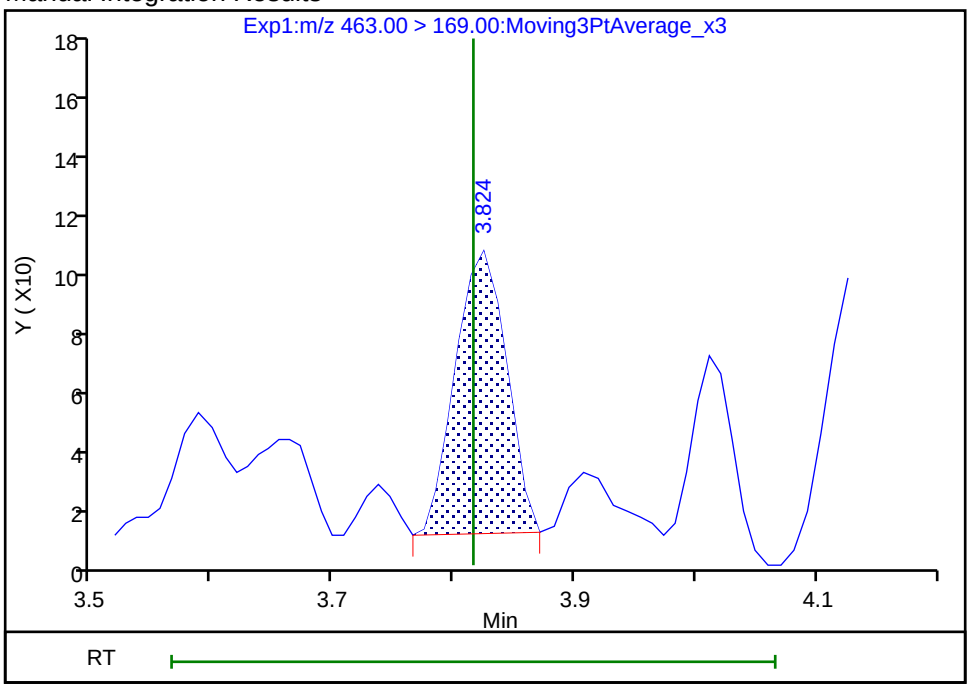
Not Detected
Expected RT: 3.82

Processing Integration Results



Manual Integration Results

RT: 3.82
Area: 278
Amount: 0.004237
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:41:45
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

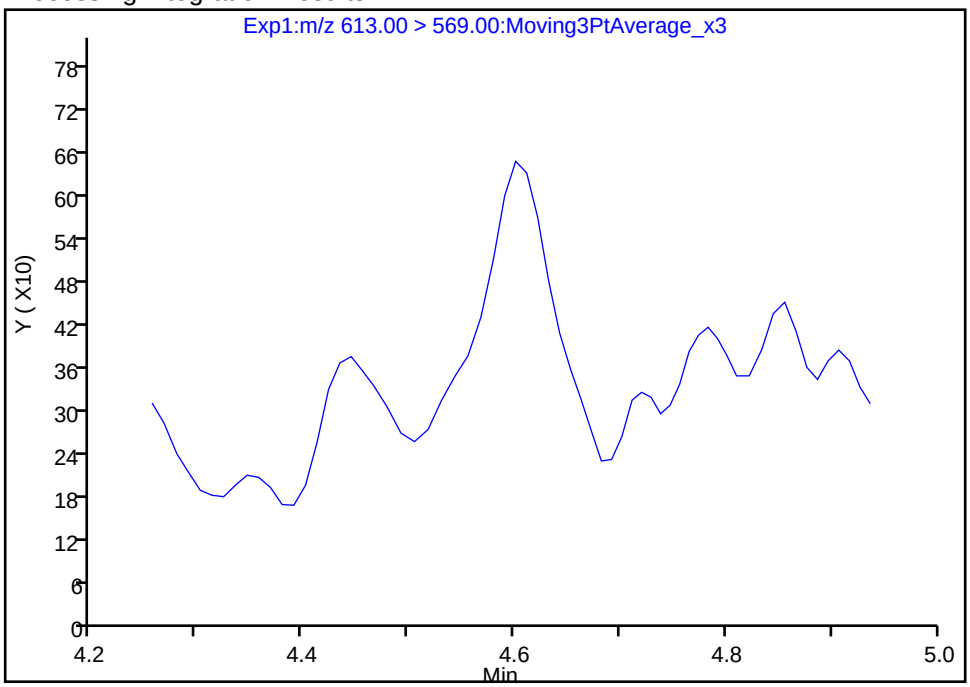
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A04.d				
Injection Date:	26-Feb-2021 13:11:14	Instrument ID:	LC812		
Lims ID:	MB 200-164298/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

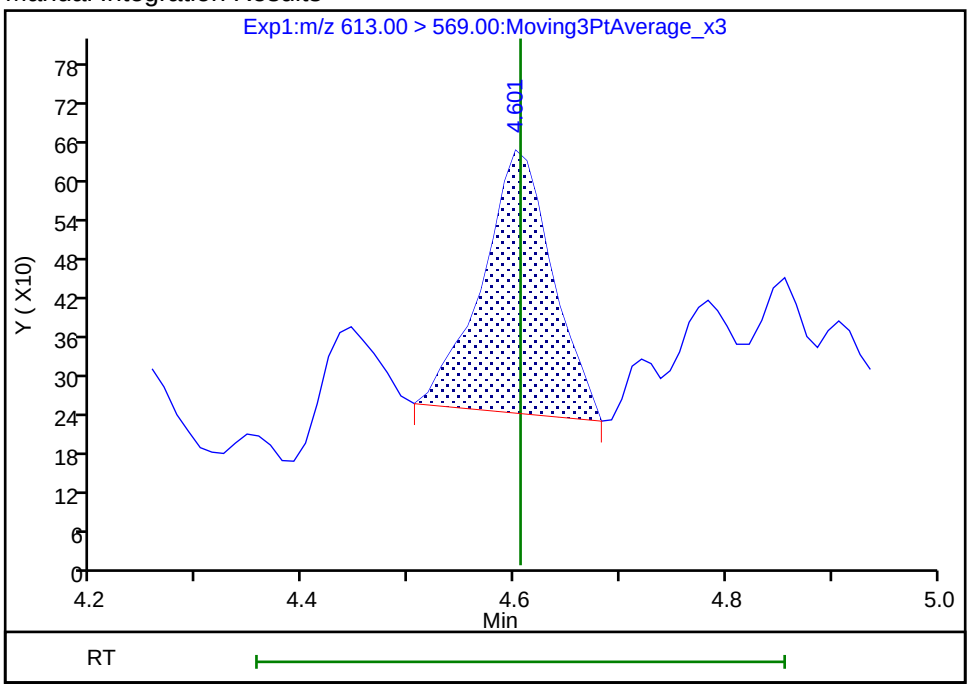
Not Detected
Expected RT: 4.61

Processing Integration Results



Manual Integration Results

RT: 4.60
Area: 1880
Amount: 0.003631
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:43:29
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

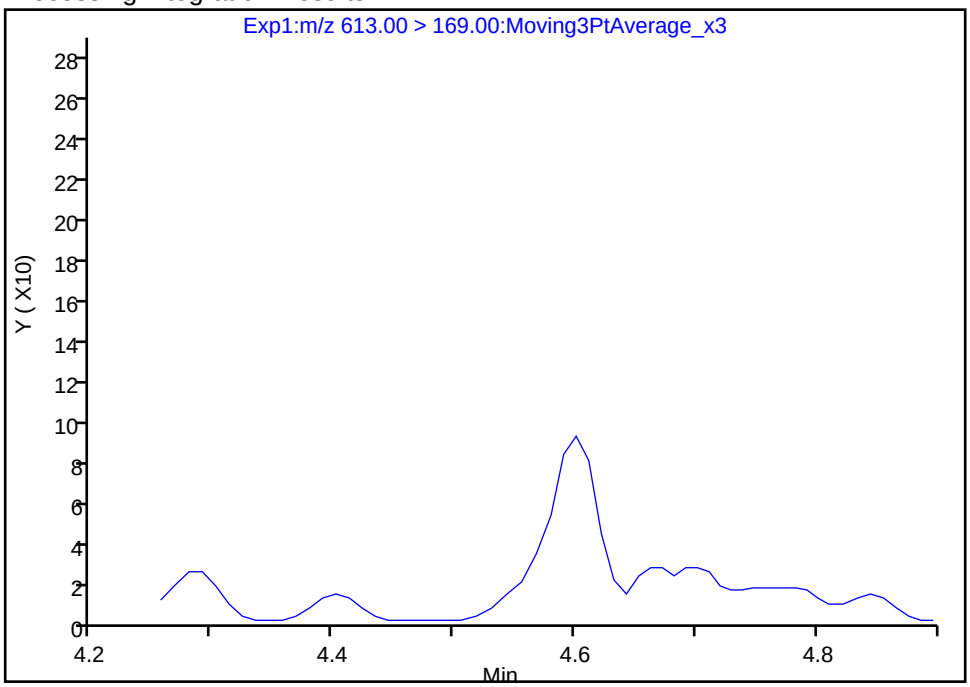
Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A04.d
Injection Date: 26-Feb-2021 13:11:14 Instrument ID: LC812
Lims ID: MB 200-164298/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

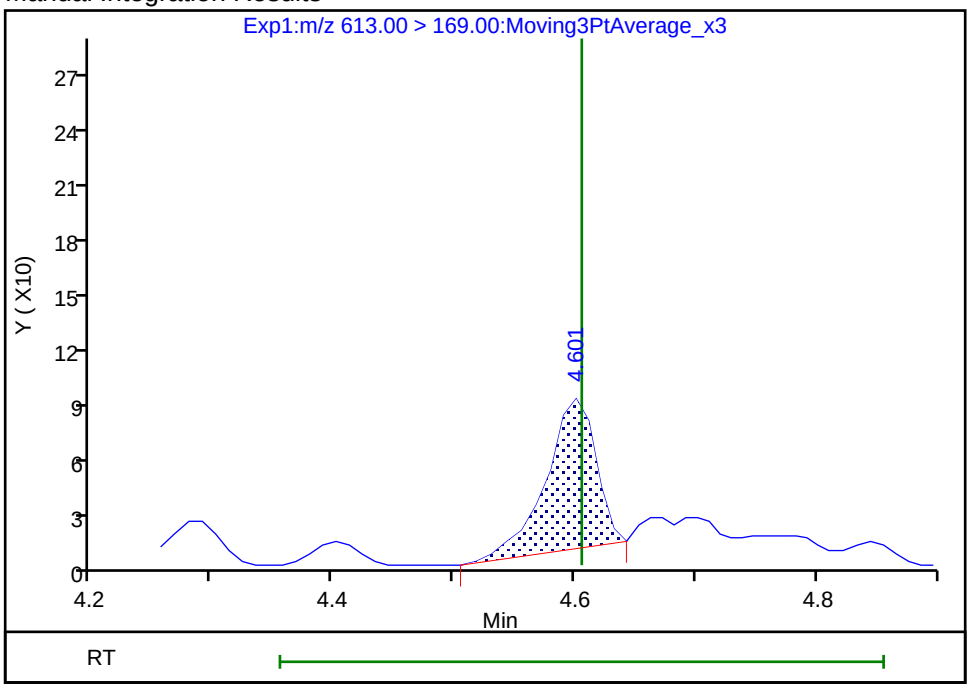
Not Detected
Expected RT: 4.61

Processing Integration Results



Manual Integration Results

RT: 4.60
Area: 236
Amount: 0.003631
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:43:34
Audit Action: Manually Integrated Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington

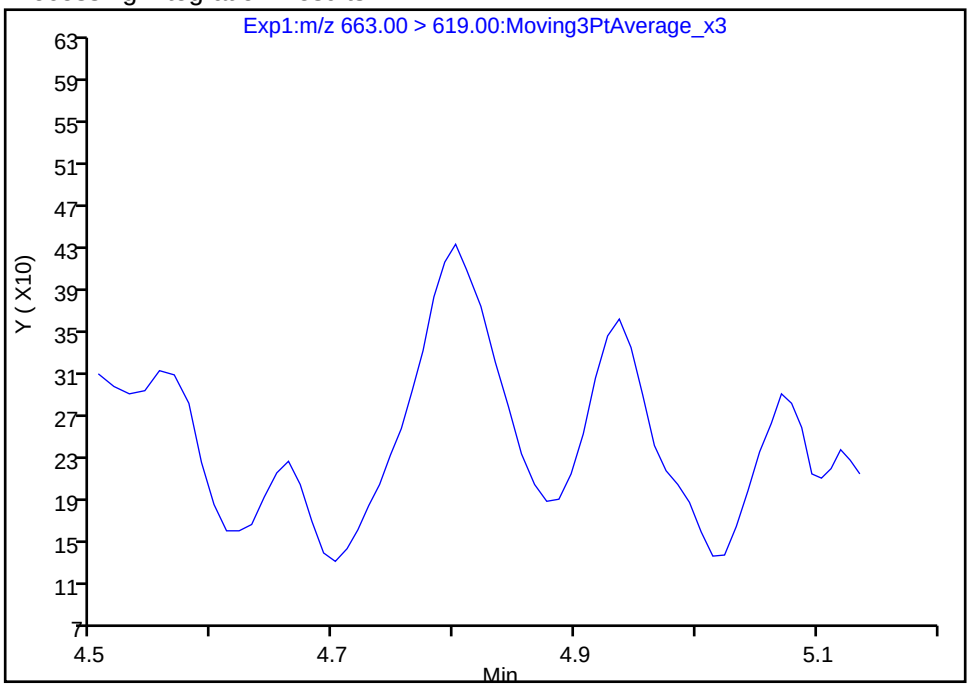
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A04.d				
Injection Date:	26-Feb-2021 13:11:14	Instrument ID:	LC812		
Lims ID:	MB 200-164298/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

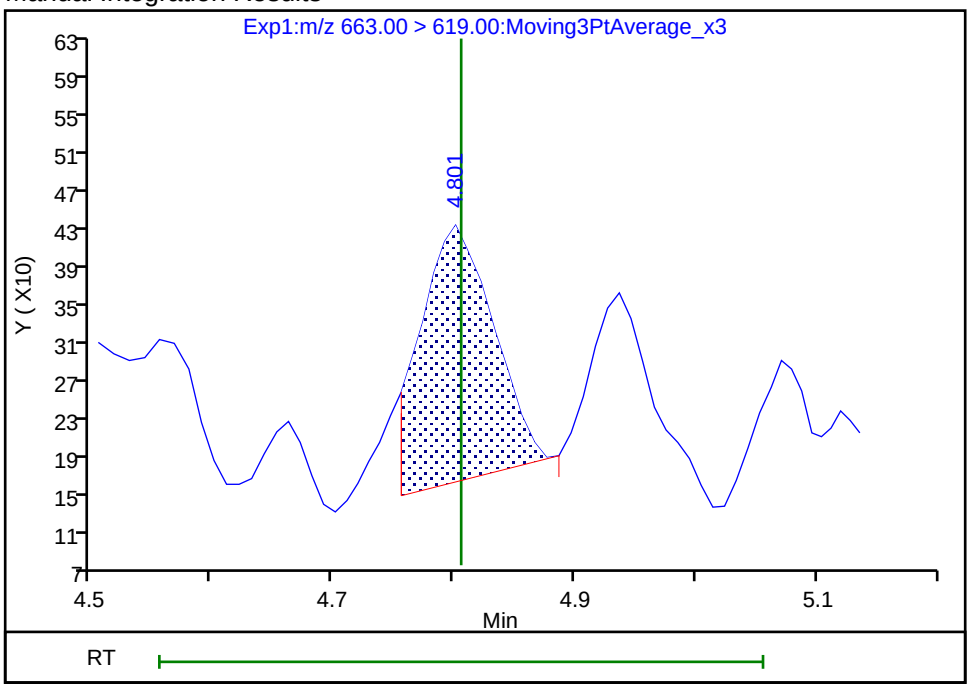
Not Detected
Expected RT: 4.81

Processing Integration Results



Manual Integration Results

RT: 4.80
Area: 1119
Amount: 0.002663
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:44:18
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

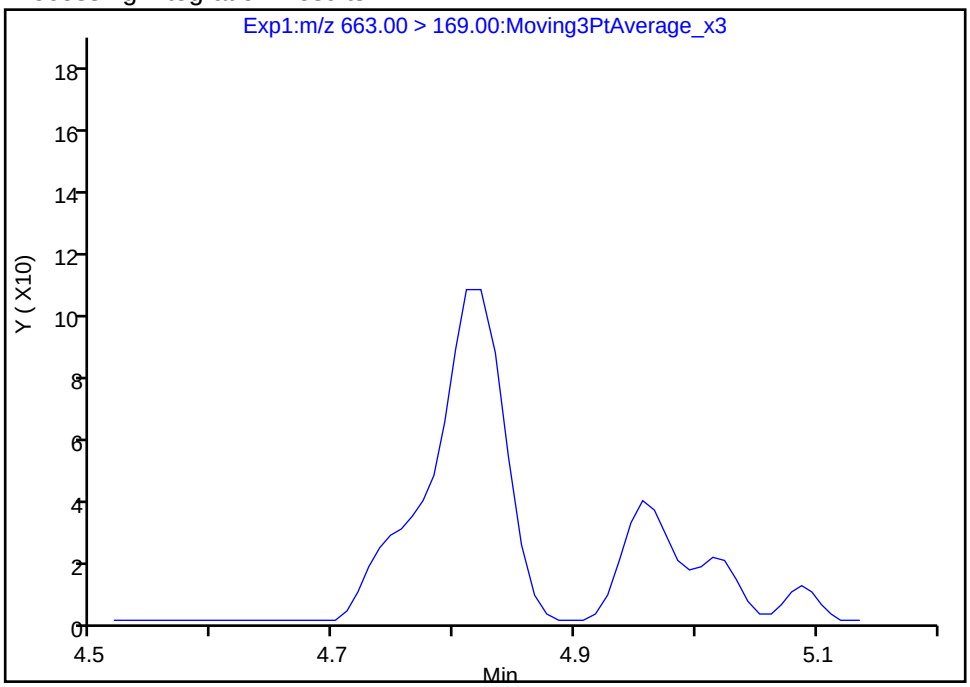
Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A04.d
Injection Date: 26-Feb-2021 13:11:14 Instrument ID: LC812
Lims ID: MB 200-164298/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

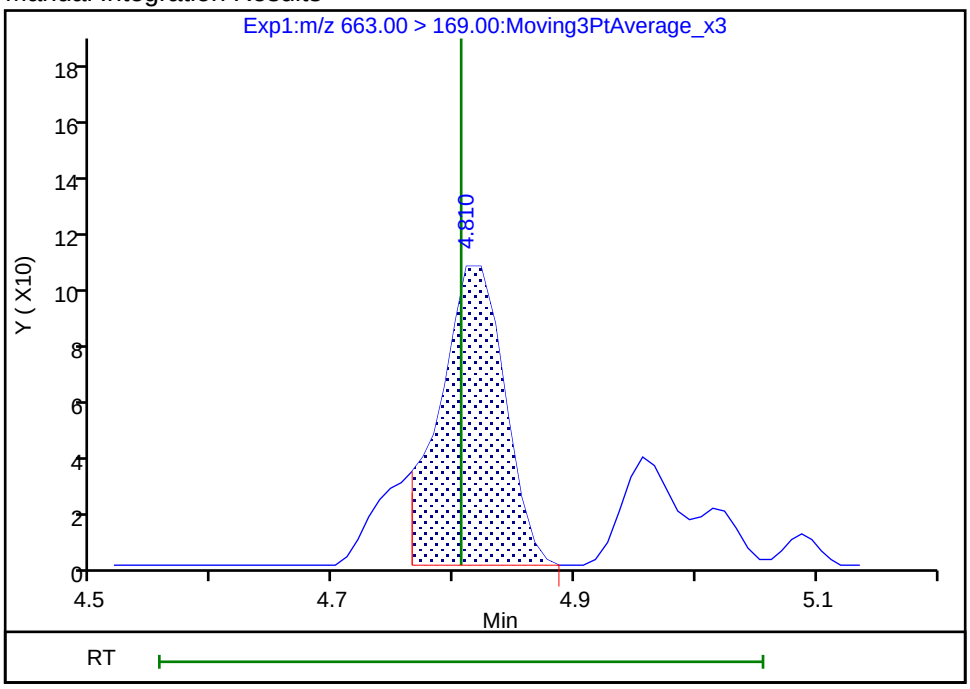
Not Detected
Expected RT: 4.81

Processing Integration Results



Manual Integration Results

RT: 4.81
Area: 389
Amount: 0.002663
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:44:21
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

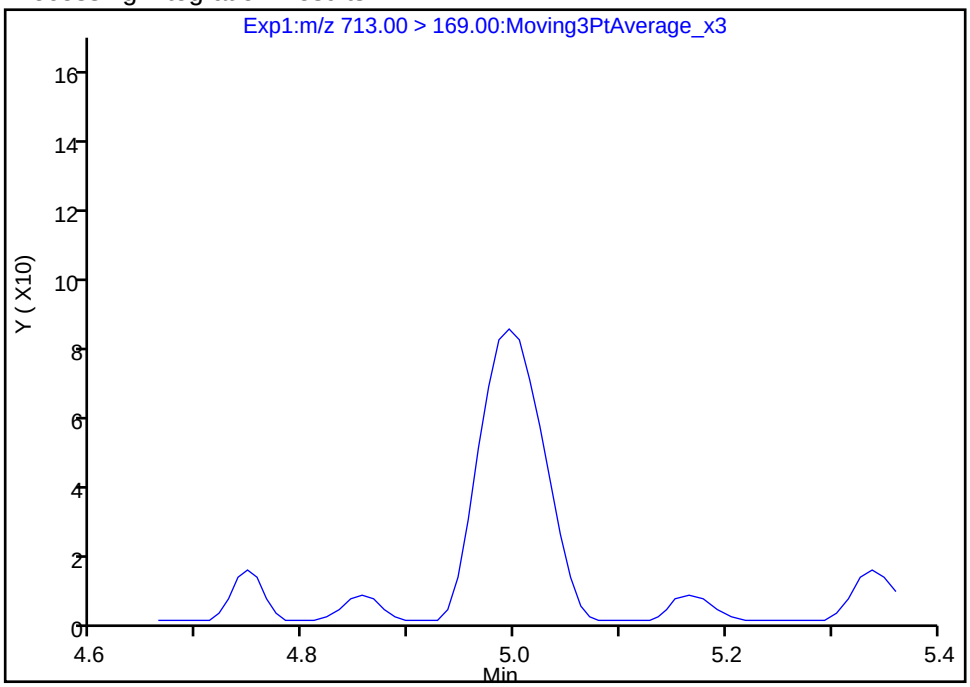
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A04.d				
Injection Date:	26-Feb-2021 13:11:14	Instrument ID:	LC812		
Lims ID:	MB 200-164298/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

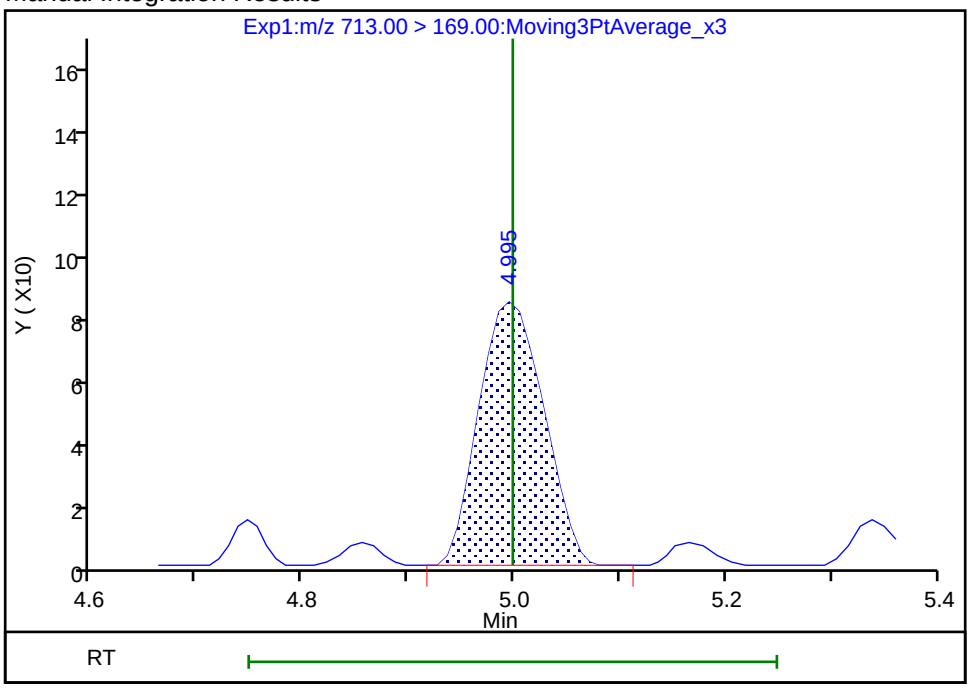
Not Detected
Expected RT: 5.00

Processing Integration Results



Manual Integration Results

RT: 4.99
Area: 344
Amount: 0.006241
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:44:31
Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

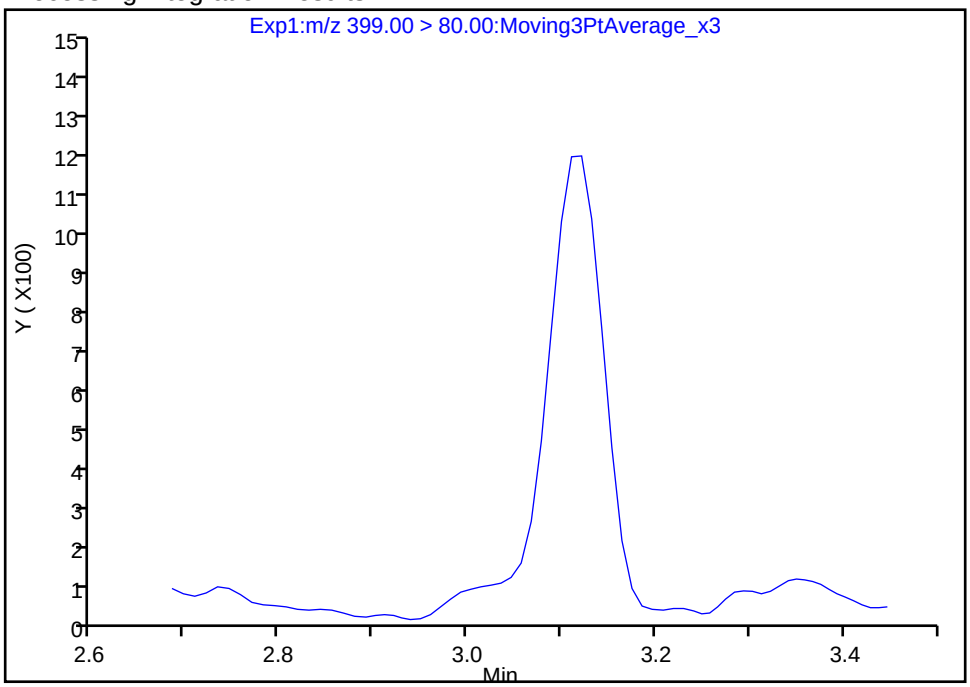
Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A04.d
Injection Date: 26-Feb-2021 13:11:14 Instrument ID: LC812
Lims ID: MB 200-164298/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

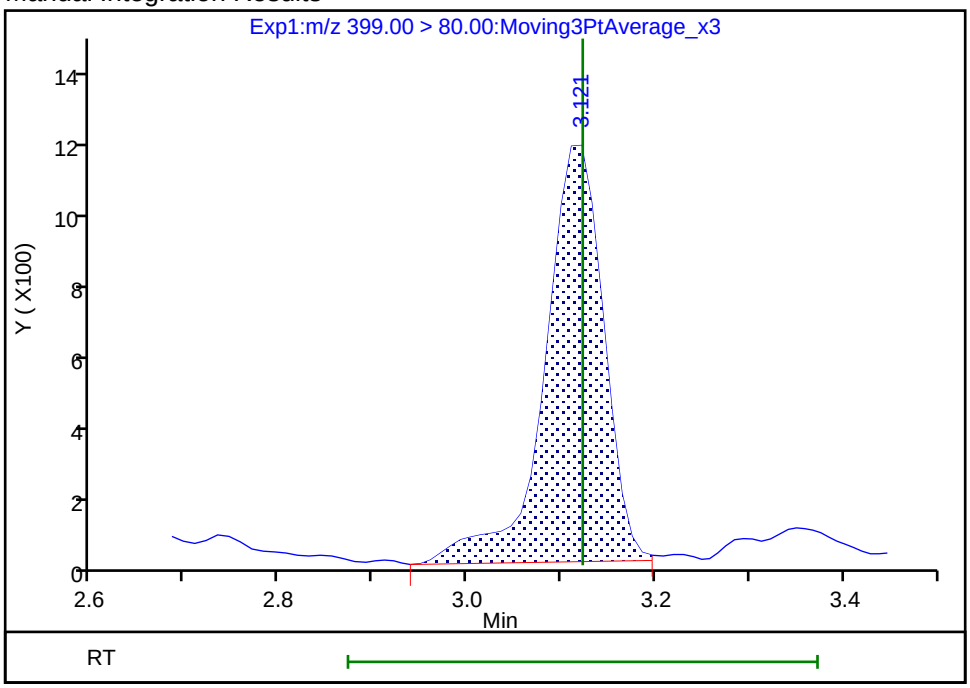
Not Detected
Expected RT: 3.12

Processing Integration Results



Manual Integration Results

RT: 3.12
Area: 4921
Amount: 0.005825
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:39:29
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

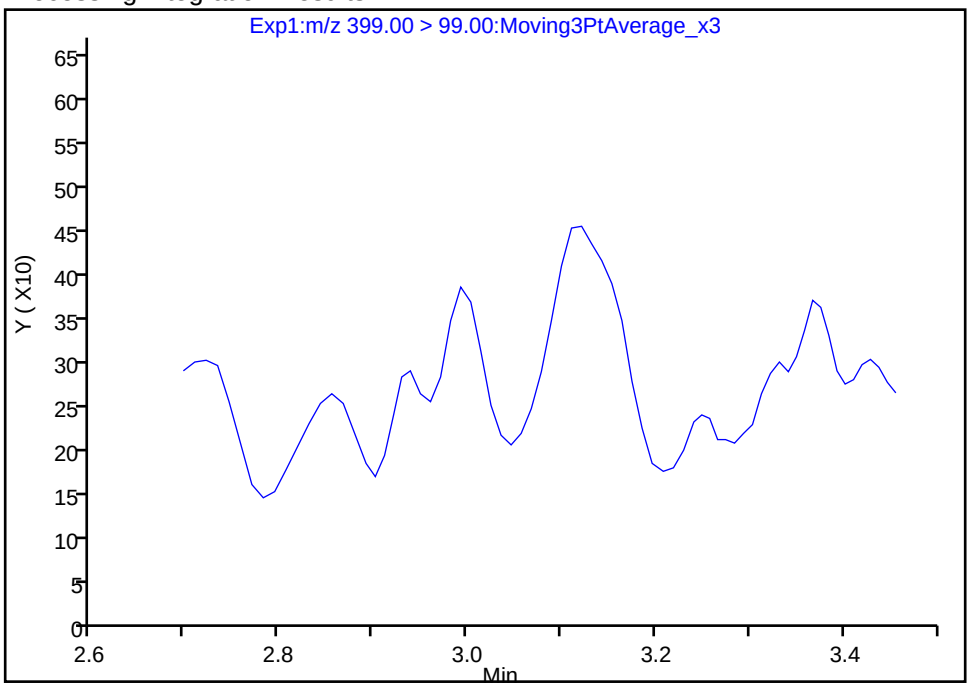
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A04.d				
Injection Date:	26-Feb-2021 13:11:14	Instrument ID:	LC812		
Lims ID:	MB 200-164298/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

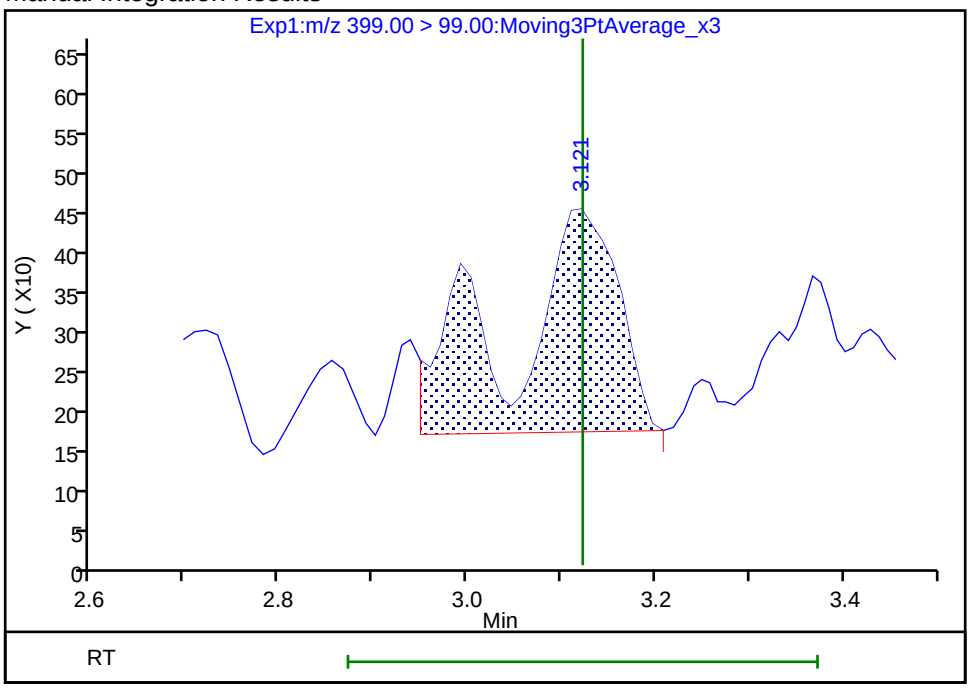
Not Detected
Expected RT: 3.12

Processing Integration Results



Manual Integration Results

RT: 3.12
Area: 2169
Amount: 0.005825
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:39:32
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

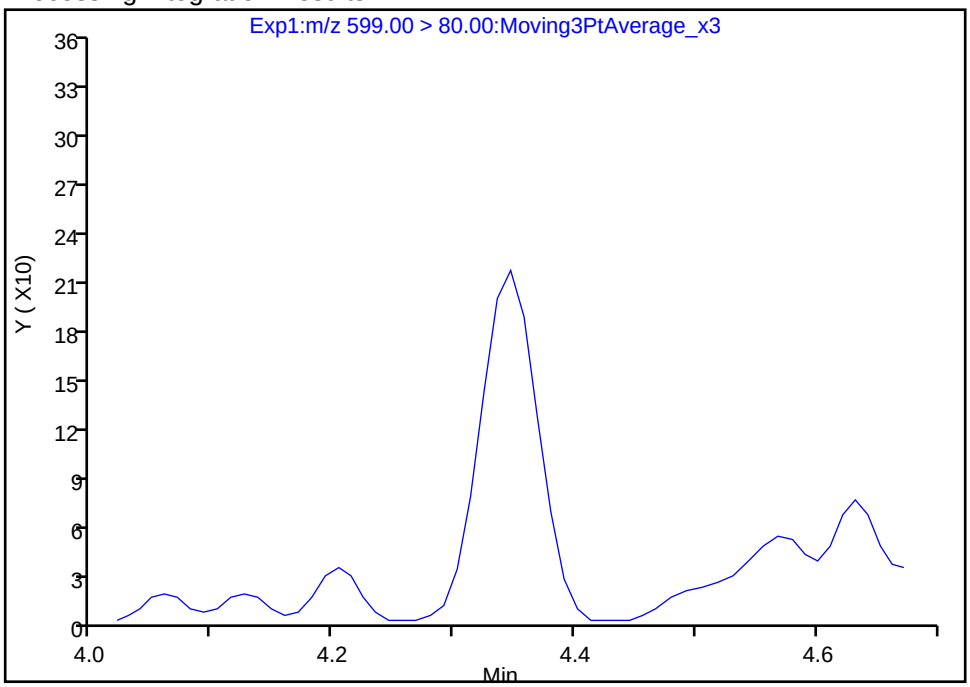
Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A04.d
Injection Date: 26-Feb-2021 13:11:14 Instrument ID: LC812
Lims ID: MB 200-164298/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

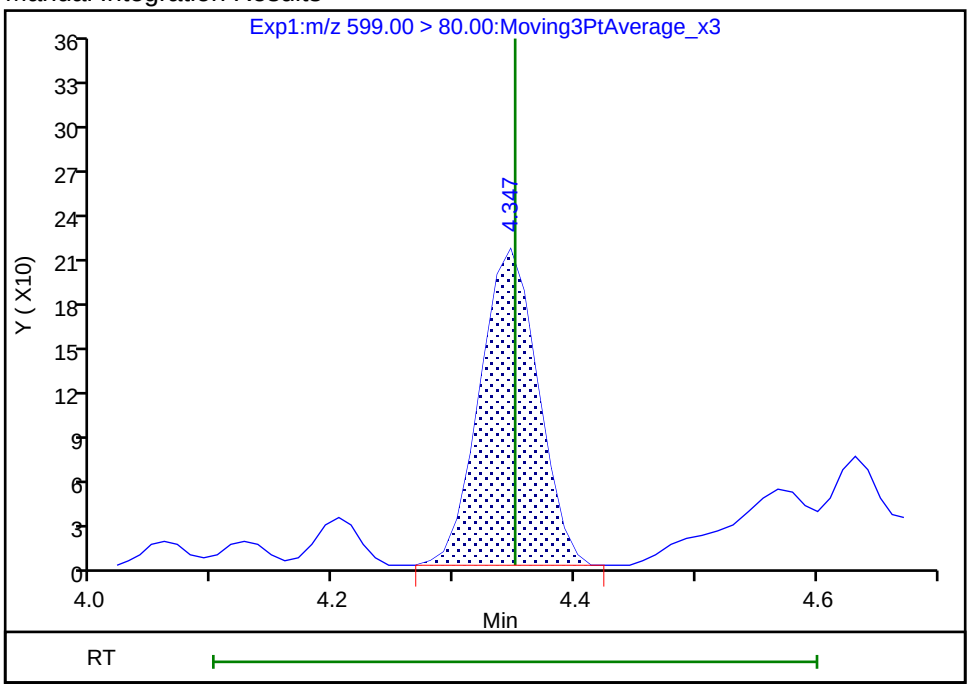
Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.35
Area: 709
Amount: 0.002102
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:42:34
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

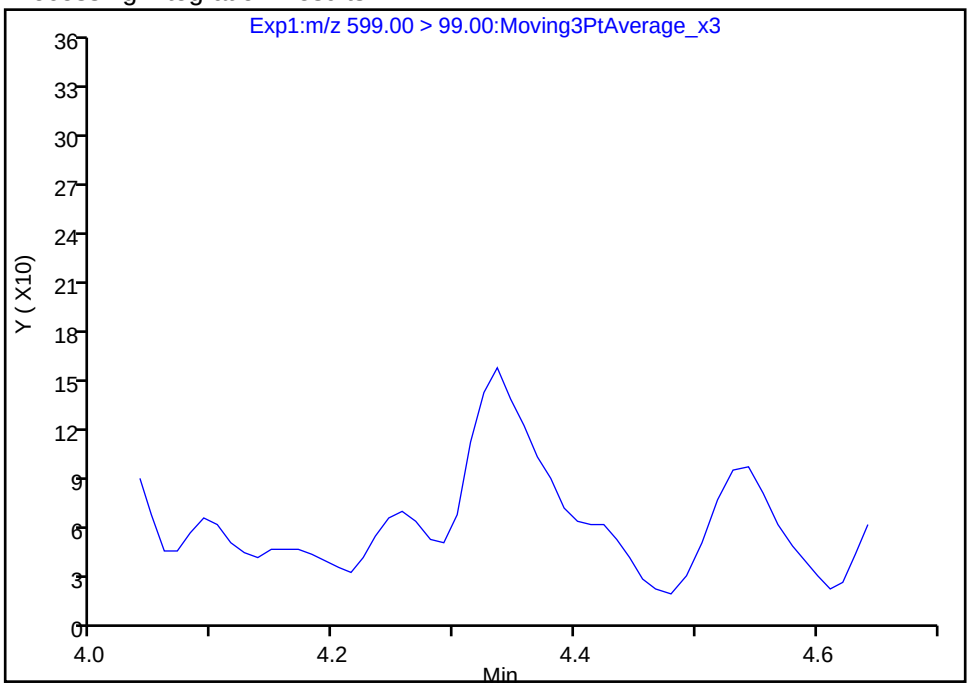
Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A04.d
Injection Date: 26-Feb-2021 13:11:14 Instrument ID: LC812
Lims ID: MB 200-164298/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

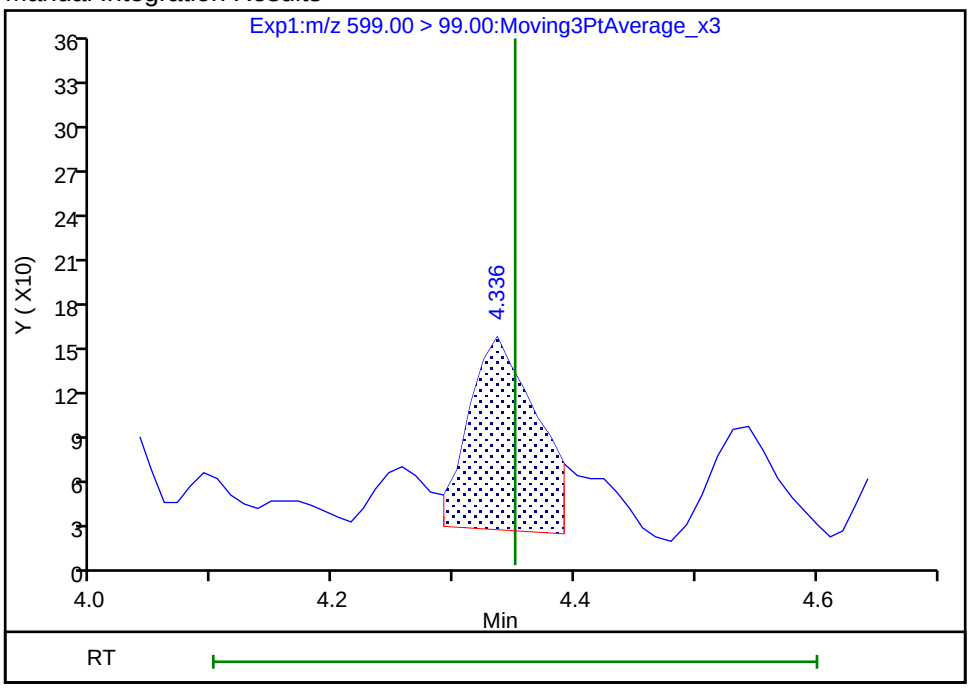
Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.34
Area: 495
Amount: 0.002102
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:42:45
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

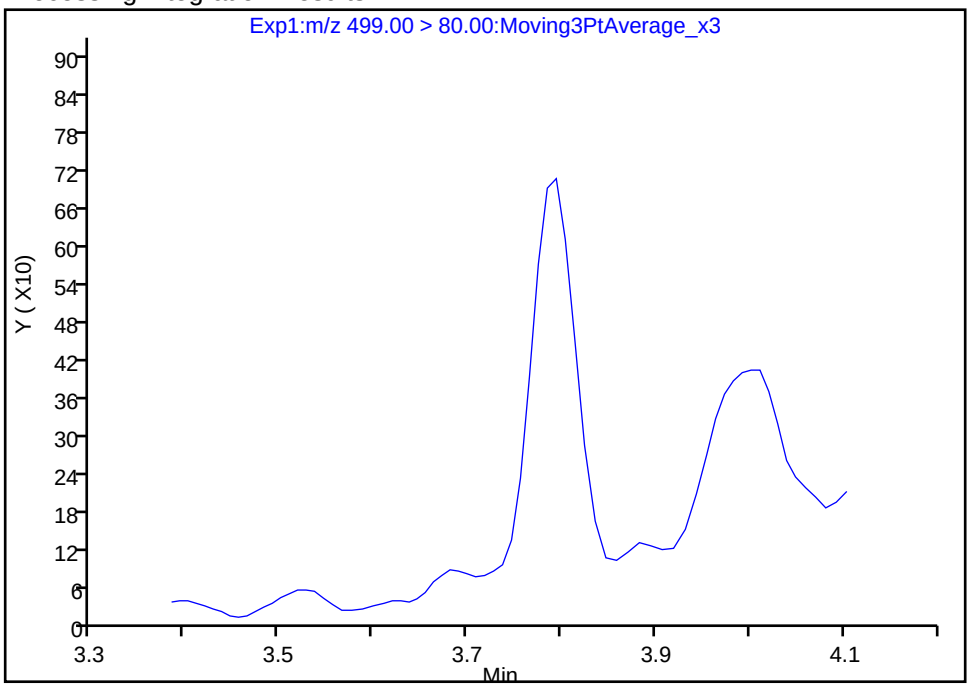
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A04.d				
Injection Date:	26-Feb-2021 13:11:14	Instrument ID:	LC812		
Lims ID:	MB 200-164298/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

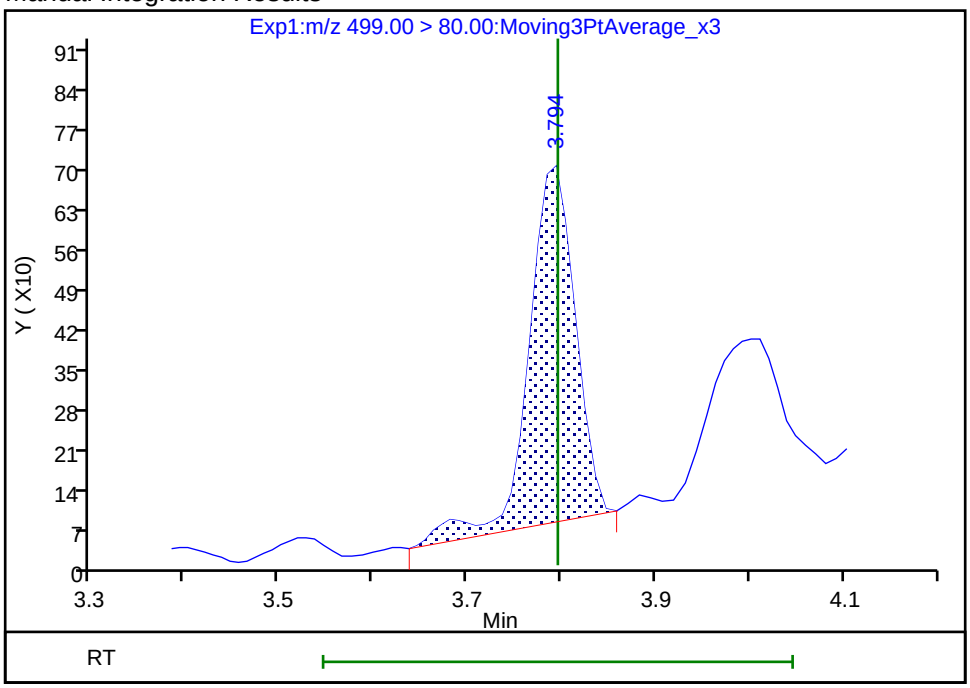
Not Detected
Expected RT: 3.80

Processing Integration Results



Manual Integration Results

RT: 3.79
Area: 2150
Amount: 0.003792
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:41:26
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

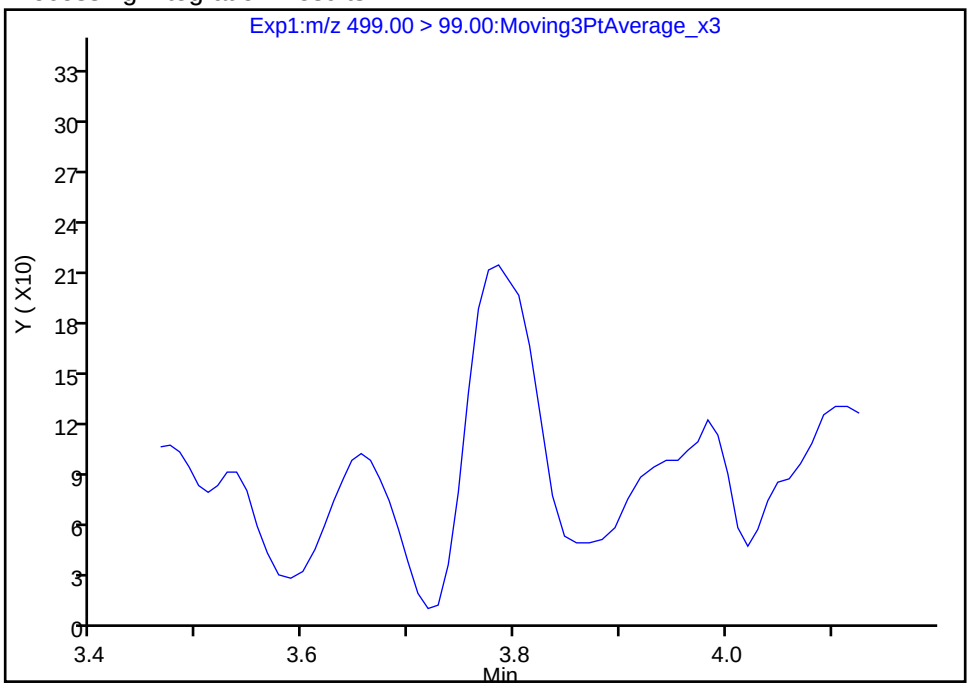
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A04.d				
Injection Date:	26-Feb-2021 13:11:14	Instrument ID:	LC812		
Lims ID:	MB 200-164298/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

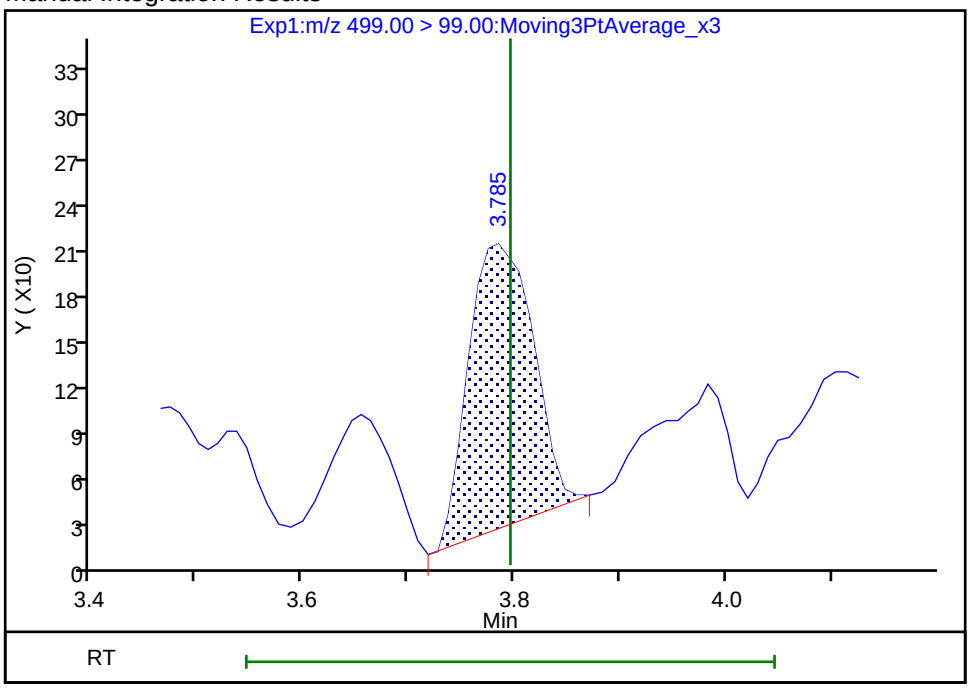
Not Detected
Expected RT: 3.80

Processing Integration Results



Manual Integration Results

RT: 3.78
Area: 792
Amount: 0.003792
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:41:30
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

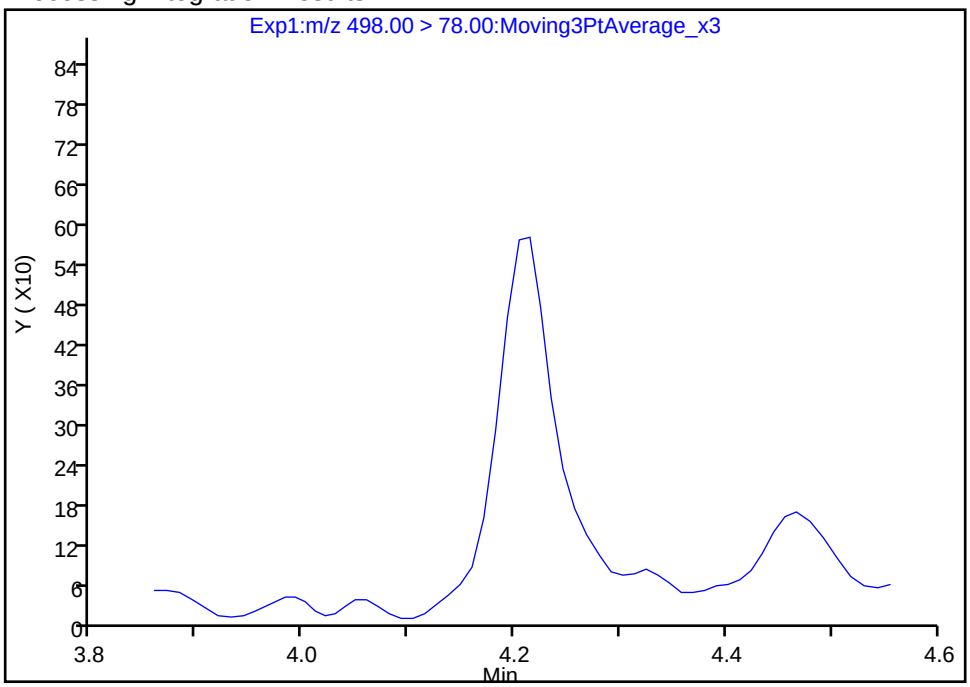
Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A04.d
Injection Date: 26-Feb-2021 13:11:14 Instrument ID: LC812
Lims ID: MB 200-164298/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

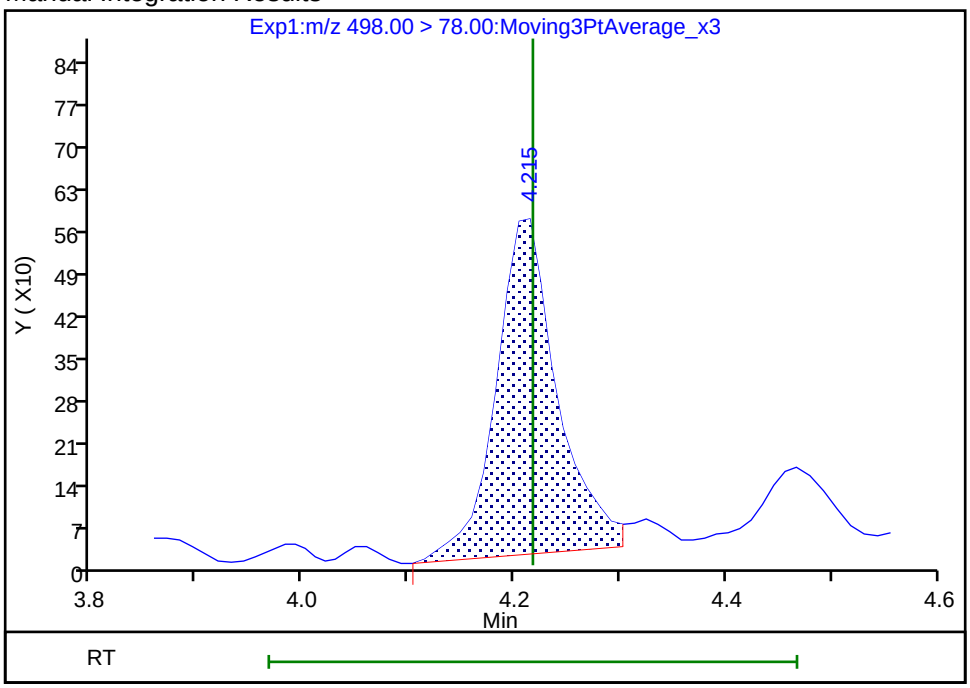
Not Detected
Expected RT: 4.22

Processing Integration Results



Manual Integration Results

RT: 4.21
Area: 2242
Amount: 0.002517
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:42:18
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

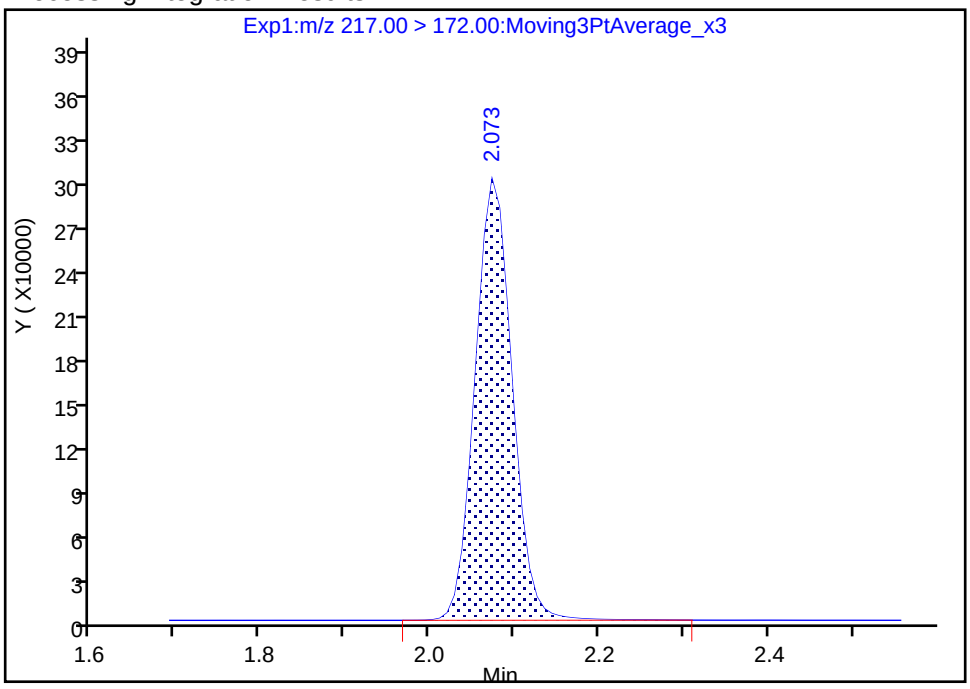
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A04.d				
Injection Date:	26-Feb-2021 13:11:14	Instrument ID:	LC812		
Lims ID:	MB 200-164298/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

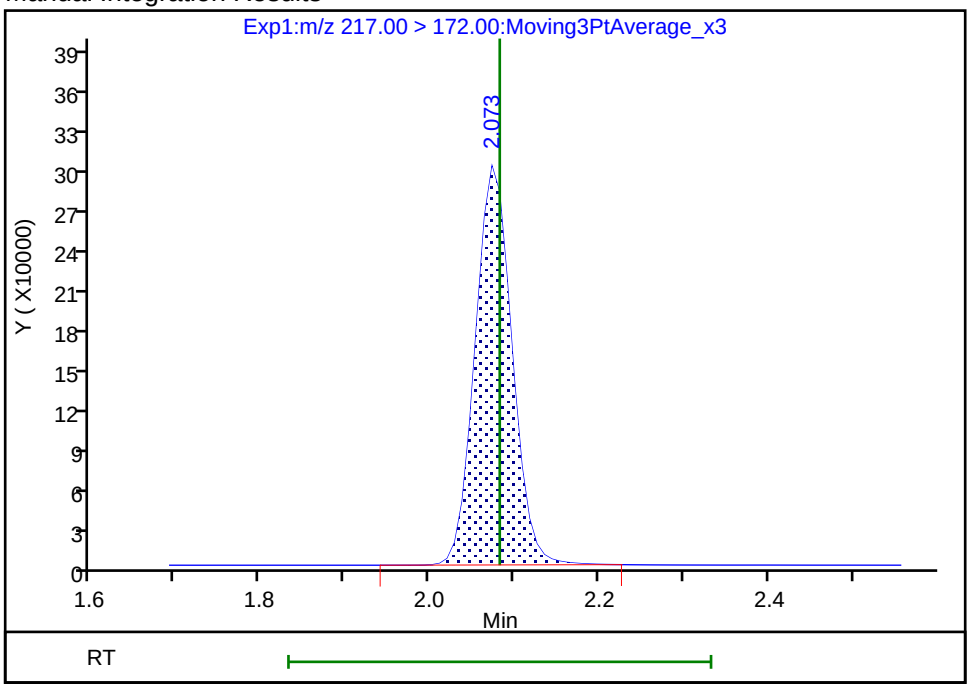
Processing Integration Results

RT: 2.07
Area: 912899
Amount: 0.946949
Amount Units: ng/ml



Manual Integration Results

RT: 2.07
Area: 909464
Amount: 0.943386
Amount Units: ng/ml



Reviewer: deannd, 01-Mar-2021 11:07:01

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

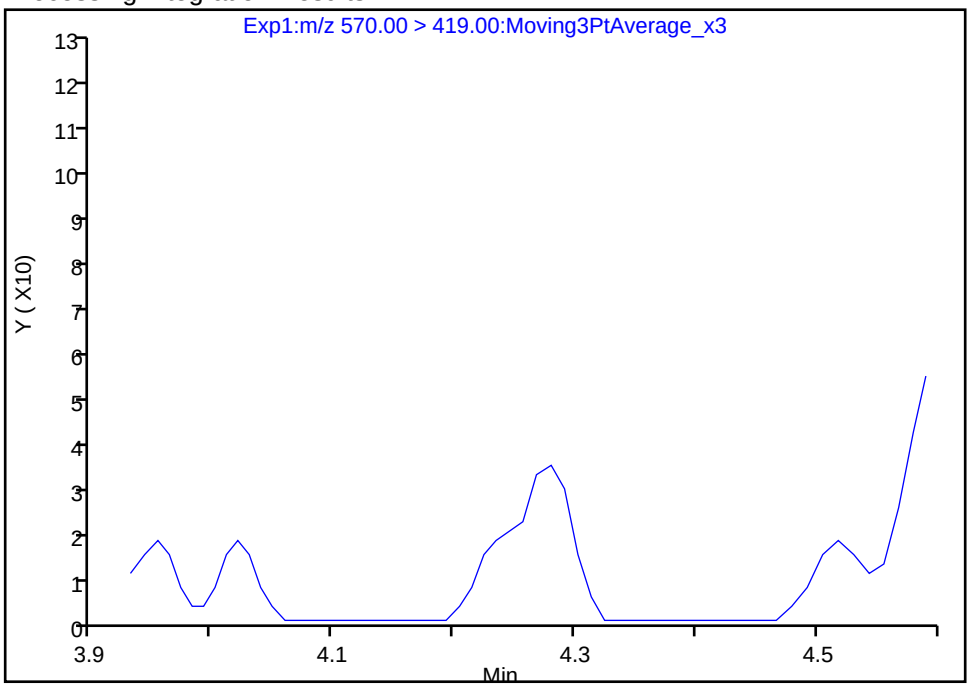
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A04.d				
Injection Date:	26-Feb-2021 13:11:14	Instrument ID:	LC812		
Lims ID:	MB 200-164298/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

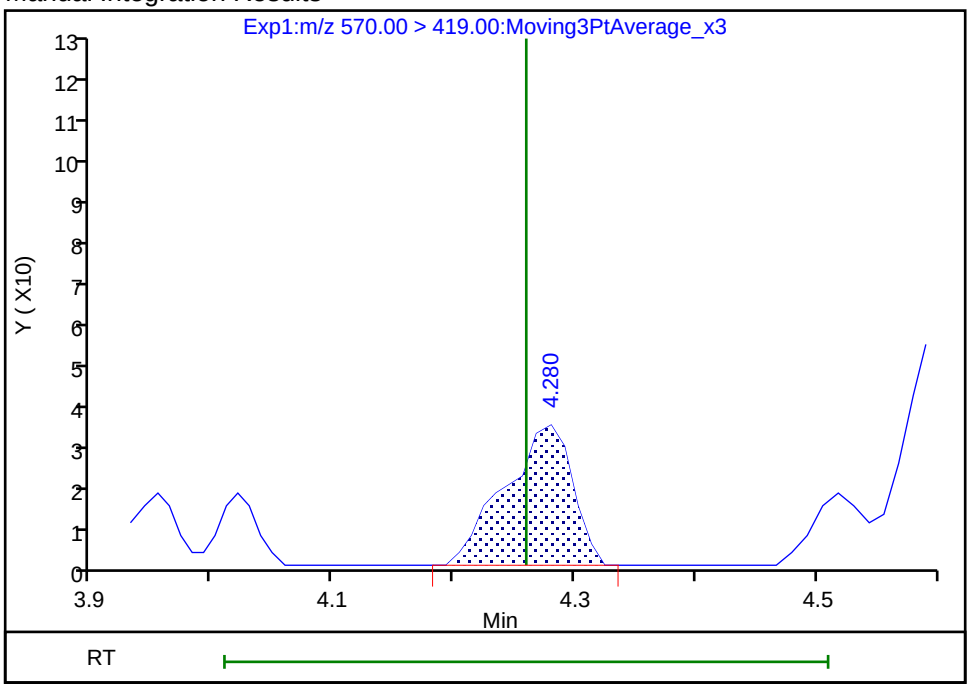
Not Detected
Expected RT: 4.26

Processing Integration Results



Manual Integration Results

RT: 4.28
Area: 128
Amount: 0.003838
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:42:28
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

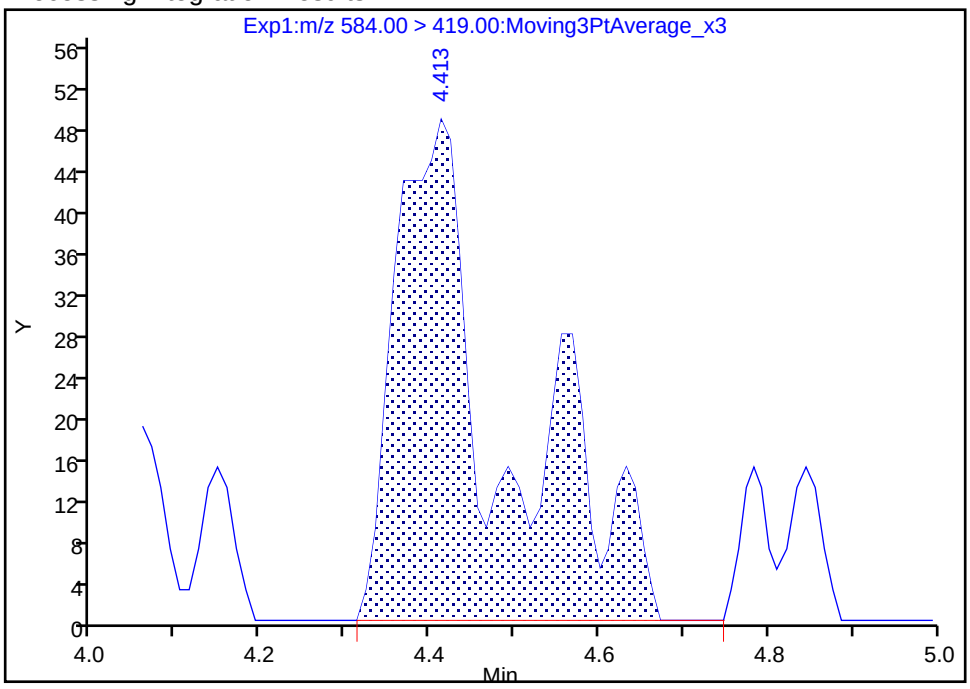
Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A04.d
Injection Date: 26-Feb-2021 13:11:14 Instrument ID: LC812
Lims ID: MB 200-164298/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

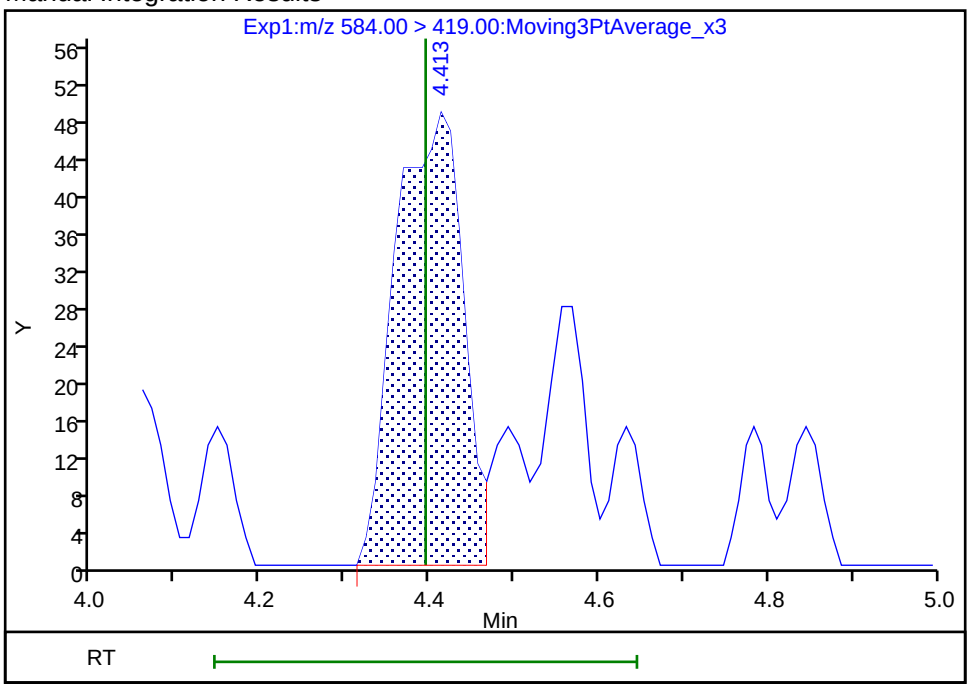
Processing Integration Results

RT: 4.41
Area: 434
Amount: 0.012063
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 270
Amount: 0.007505
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:43:15
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

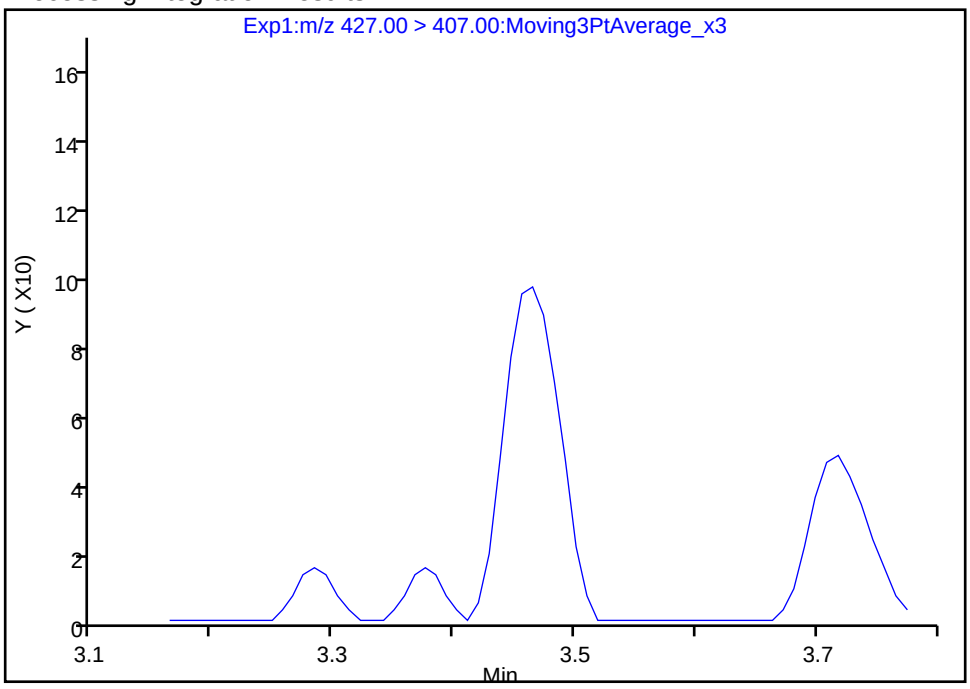
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A04.d				
Injection Date:	26-Feb-2021 13:11:14	Instrument ID:	LC812		
Lims ID:	MB 200-164298/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

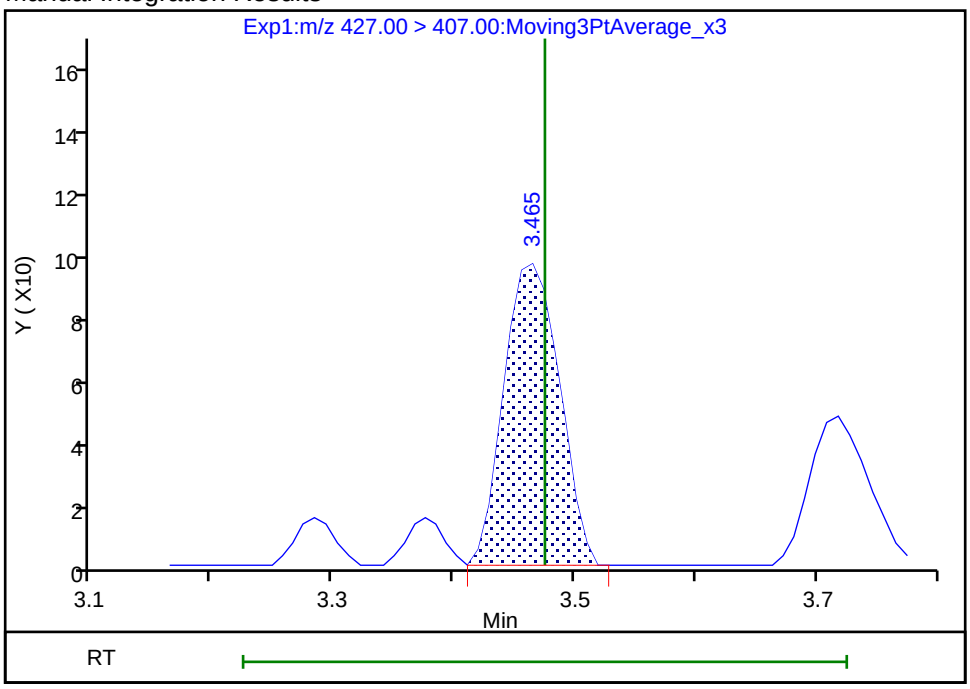
Not Detected
Expected RT: 3.48

Processing Integration Results



Manual Integration Results

RT: 3.46
Area: 303
Amount: 0.002737
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:40:34
Audit Action: Manually Integrated Audit Reason: Missed Peak

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Client Sample ID: Lab Sample ID: ICB 200-162365/14

Matrix: Water Lab File ID: PA201222ICAL014.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 12/22/2020 13:37

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 162365 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	0.13	U	0.13	0.028
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.050	U	0.050	0.027
307-24-4	Perfluorohexanoic acid (PFHxA)	0.050	U	0.050	0.021
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.050	U	0.050	0.012
335-67-1	Perfluorooctanoic acid (PFOA)	0.050	U	0.050	0.024
375-95-1	Perfluorononanoic acid (PFNA)	0.050	U	0.050	0.015
335-76-2	Perfluorodecanoic acid (PFDA)	0.050	U	0.050	0.012
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.050	U	0.050	0.018
307-55-1	Perfluorododecanoic acid (PFDoA)	0.050	U	0.050	0.012
72629-94-8	Perfluorotridecanoic acid (PFTriA)	0.050	U	0.050	0.011
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.050	U	0.050	0.015
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.050	U	0.050	0.016
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.050	U	0.050	0.017
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.050	U	0.050	0.0097
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.050	U	0.050	0.012
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.050	U	0.050	0.022
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.050	U	0.050	0.014
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.13	U	0.13	0.020
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.13	U	0.13	0.023
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	0.13	U	0.13	0.018
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	0.050	U	0.050	0.017

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Client Sample ID: Lab Sample ID: ICB 200-162365/14

Matrix: Water Lab File ID: PA201222ICAL014.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 12/22/2020 13:37

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 162365 Units: ng/mL

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01892	13C4 PFHpA	100		50-150
STL00990	13C4 PFOA	100		50-150
STL00995	13C5 PFNA	99		50-150
STL00992	13C4 PFBA	100		25-150
STL00993	13C2 PFHxA	102		50-150
STL00996	13C2 PFDA	104		50-150
STL00997	13C2 PFUnA	98		50-150
STL00994	18O2 PFHxS	97		50-150
STL00998	13C2 PFDoA	101		50-150
STL00991	13C4 PFOS	98		50-150
STL01056	13C8 FOSA	103		25-150
STL01893	13C5 PFPeA	102		25-150
STL02116	13C2 PFTeDA	96		50-150
STL02118	d3-NMeFOSAA	100		50-150
STL02117	d5-NEtFOSAA	99		50-150
STL02279	M2-6:2 FTS	109		25-150
STL02337	13C3 PFBS	103		50-150
STL02280	M2-8:2 FTS	103		25-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL014.d
Lims ID: ICB
Client ID:
Sample Type: ICB
Inject. Date: 22-Dec-2020 13:37:53 ALS Bottle#: 8 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: ICB
Misc. Info.: 200-0044184-014 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 22-Dec-2020 16:15:18 Calib Date: 22-Dec-2020 13:29:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1625

First Level Reviewer: deannd Date: 22-Dec-2020 15:11:47
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.091	2.091	0.0	0.599	1173665	1.25		99.8	9886	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.091	2.091	0.0	1.000	12982	0.0138			1.6	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.414	2.414	0.0	0.691	870248	1.28		102	3296	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.427	2.414	0.013	1.005	13607	0.0177			0.4	M
D 47 13C3 PFBS										
301.90 > 80.00	2.427	2.427	0.0	0.695	1071155	1.20		103	215365	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.427	2.427	0.0	1.000	9082	0.008713	Target=2.21		22.2	
298.90 > 99.00	2.427	2.427	0.0	1.000	4327		2.10(1.11-3.32)		5.0	
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.735	2.735	0.0	1.000	1640	0.0131			42.9	M
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.735	2.735	0.0	0.783	79652	1.07		91.3	91.4	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.772	2.771	0.001	0.793	905469	1.27		102	2676	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.772	2.771	0.001	1.000	10584	0.0134	Target=12.83		2.5	
313.00 > 119.00	2.772	2.771	0.001	1.000	1355		7.81(6.42-19.25)		2.8	M
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.772	2.771	0.001	0.885	8000	0.009440	Target=3.35		32.6	
349.00 > 99.00	2.772	2.771	0.001	0.885	1790		4.47(1.67-5.02)		4.2	
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.869	2.881	-0.012	0.996	2424	0.0118			0.2	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.881	2.881	0.0	0.825	185110	1.47		118	1362	
D 11 18O2 PFHxS										
403.00 > 84.00	3.133	3.133	0.0	0.897	763583	1.15		96.9	2119	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.133	3.133	0.0	1.000	8748	0.0115	Target=4.15		11.7	M
399.00 > 99.00	3.133	3.133	0.0	1.000	1791		4.88(2.08-6.23)		1.8	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.133	3.133	0.0	0.897	853271	1.25		100	3488	
10 Perfluoroheptanoic acid										R
363.00 > 319.00	3.133	3.133	0.0	1.000	8899	0.0119	Target=3.66		2.2	R
363.00 > 169.00	3.133	3.133	0.0	1.000	1499		5.94(1.83-5.49)		4.3	
77 DONA										M
377.00 > 251.00	3.176	3.176	0.0	0.834	15086	0.0101	Target=2.43		20.4	
377.00 > 85.00	3.176	3.176	0.0	0.834	6276		2.40(1.22-3.65)		7.5	M
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.484	3.484	0.0	0.915	5119	0.008490	Target=5.95		44.8	
449.00 > 99.00	3.475	3.484	-0.009	0.913	729		7.02(2.98-8.93)		4.5	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.484	3.484	0.0	0.997	108027	1.30		109	442	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.484	3.484	0.0	1.000	982	0.009705			21.8	
D 14 13C4 PFOA										
417.00 > 372.00	3.493	3.493	0.0	1.000	869355	1.25		100	2767	
* 62 13C2 PFOA										
415.00 > 370.00	3.493	3.493	0.0		875786	1.25			3053	
15 Perfluorooctanoic acid										RM
413.00 > 369.00	3.502	3.493	0.009	1.003	9141	0.0121	Target=2.58		1.9	RM
413.00 > 169.00	3.493	3.493	0.0	1.000	2098		4.36(1.29-3.87)		4.5	M
D 18 13C4 PFOS										
503.00 > 80.00	3.808	3.806	0.002	1.090	533628	1.17		97.6	1320	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.808	3.806	0.002	1.000	5152	0.0100	Target=5.65		6.2	M
499.00 > 99.00	3.808	3.806	0.002	1.000	1104		4.67(2.82-8.47)		3.8	M
D 19 13C5 PFNA										
468.00 > 423.00	3.828	3.826	0.002	1.096	760508	1.24		99.5	2162	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.828	3.826	0.002	1.000	8165	0.0121	Target=7.44		1.2	
463.00 > 169.00	3.828	3.826	0.002	1.000	881		9.27(3.72-11.16)		12.4	M
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.969	3.967	0.002	1.042	5164	0.009012			36.7	
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.097	4.095	0.002	1.076	3234	0.008440	Target=2.54		28.8	
549.00 > 99.00	4.097	4.095	0.002	1.076	998		3.24(1.27-3.81)		4.3	M
D 23 13C2 PFDA										
515.00 > 470.00	4.131	4.129	0.002	1.183	756796	1.29		104	2401	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.131	4.129	0.002	1.000	5959	0.009551	Target=9.29		4.8	
513.00 > 169.00	4.131	4.129	0.002	1.000	974		6.12(4.64-13.93)		7.4	M
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.142	4.140	0.002	1.000	423	0.007027			10.6	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.142	4.140	0.002	1.186	105991	1.24		103	674	
D 21 13C8 FOSA										
506.00 > 78.00	4.209	4.207	0.002	1.205	1104824	1.29		103	2293	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.209	4.207	0.002	1.000	7326	0.008271			20.9	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.263	4.272	-0.009	1.220	53054	1.25		100	542	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.275	4.272	0.003	1.003	674	0.0179			6.0	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.365	4.362	0.003	1.146	3322	0.0109	Target=2.80		32.2	
599.00 > 99.00	4.365	4.362	0.003	1.146	1286		2.58(1.40-4.19)		4.8	
D 30 13C2 PFUnA										
565.00 > 520.00	4.387	4.384	0.003	1.256	585825	1.22		97.6	1805	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.398	4.395	0.003	1.003	5801	0.0121	Target=8.12		2.3	M
563.00 > 169.00	4.398	4.395	0.003	1.003	1008		5.75(4.06-12.18)		27.5	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.398	4.395	0.003	1.259	50776	1.24		99.1	423	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.398	4.406	-0.008	1.000	655	0.0174			8.2	M
66 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.488	4.485	0.003	1.179	4699	0.007903			75.0	
D 36 13C2 PFDoA										
615.00 > 570.00	4.619	4.626	-0.007	1.322	637238	1.26		101	2862	
37 Perfluorododecanoic acid										RM
613.00 > 569.00	4.619	4.626	-0.007	1.000	5753	0.0103	Target=6.91		1.7	R
613.00 > 169.00	4.619	4.626	-0.007	1.000	543		10.59(3.45-10.36)		11.2	M
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.640	4.637	0.003	1.120	289	0.009325			11.4	M
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.790	4.797	-0.007	1.258	518	0.004609	Target=0.51		2.4	M
699.00 > 99.00	4.799	4.797	0.002	1.260	1391		0.37(0.26-0.77)		6.4	M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.841	4.839	0.002	1.048	3436	0.007551	Target=4.39		1.6	
663.00 > 169.00	4.841	4.839	0.002	1.048	549		6.26(2.20-6.59)		10.1	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.030	5.027	0.003	1.440	450010	1.20		96.0	2567	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.030	5.027	0.003	1.000	718	0.0108	Target=1.06		23.9	M
713.00 > 219.00	5.020	5.027	-0.007	0.998	467		1.54(0.53-1.59)		12.3	

Report Date: 22-Dec-2020 17:35:45 Chrom Revision: 2.3 09-Dec-2020 16:22:14
Data File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL014.d
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.381	5.374	0.007	1.540	505826	1.26		101	1986	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.381	5.374	0.007	1.000	8267	0.006683	Target=3.84		2.5	
813.00 > 169.00	5.381	5.374	0.007	1.000	1701		4.86(1.92-5.76)		49.2	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.727	5.722	0.005	1.064	4106	0.0113	Target=3.92		3.5	
913.00 > 169.00	5.727	5.722	0.005	1.064	1091		3.76(1.96-5.88)		22.6	

QC Flag Legend

Processing Flags
R - Failed Signal Ratio Test
Review Flags
M - Manually Integrated

Reagents:

PFAS32NCBLK20_00007 Amount Added: 100.00 Units: uL

Report Date: 22-Dec-2020 17:35:45 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL014.d

Injection Date: 22-Dec-2020 13:37:53 Instrument ID: LC812

Lims ID: ICB

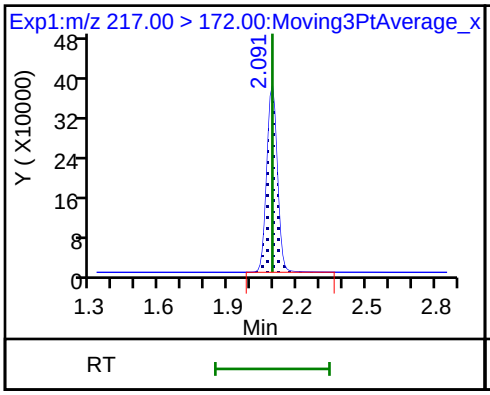
Client ID:

Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 14

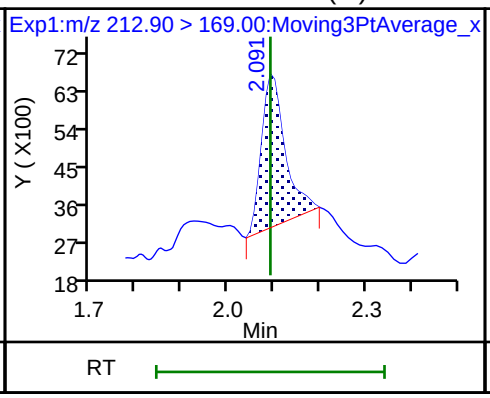
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

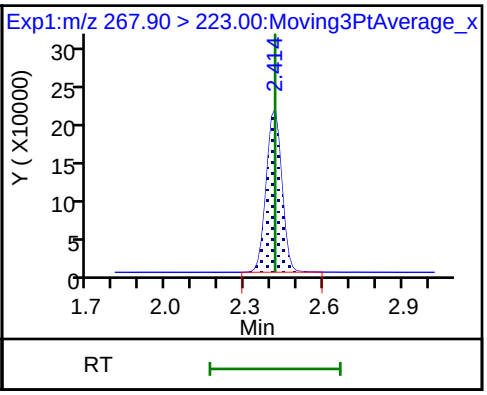
D 1 13C4 PFBA



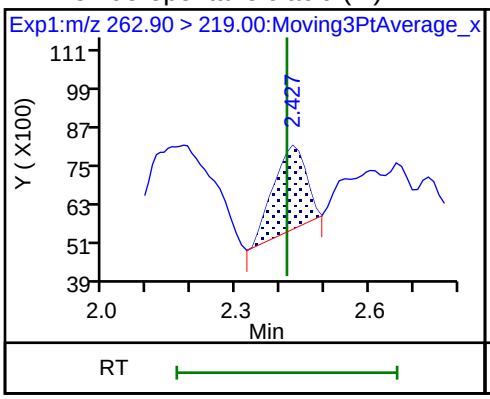
2 Perfluorobutanoic acid (M)



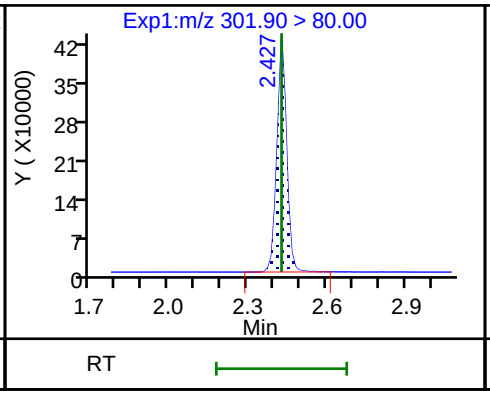
D 3 13C5 PFPeA



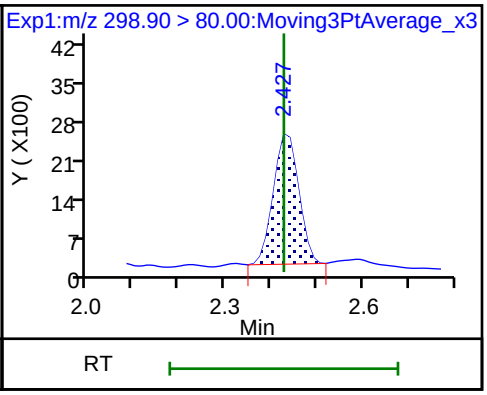
4 Perfluoropentanoic acid (M)



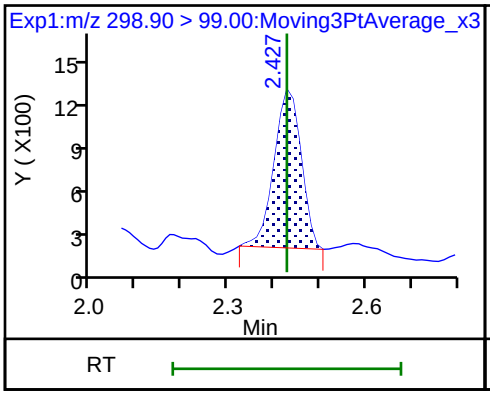
D 47 13C3 PFBS



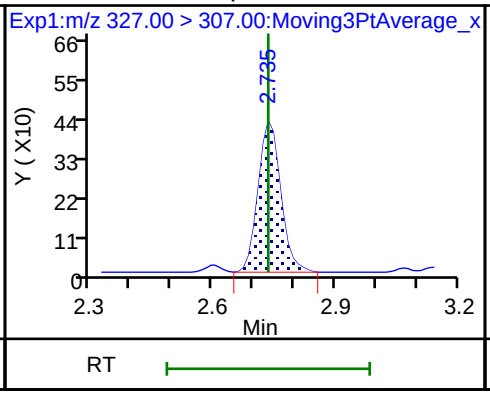
5 Perfluorobutanesulfonic acid



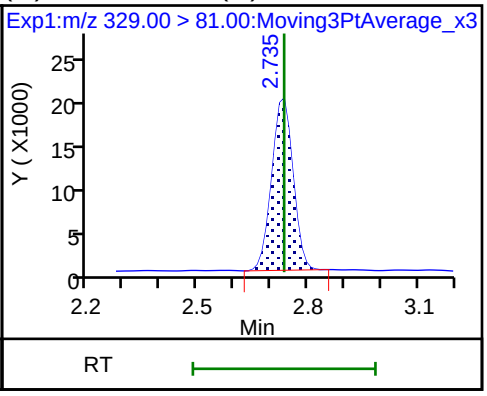
5 Perfluorobutanesulfonic acid



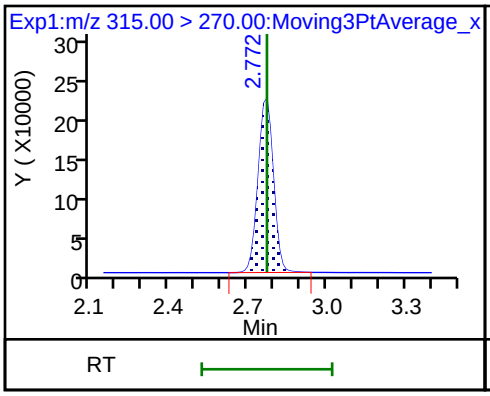
61 1H,1H,2H,2H-perfluorohexanesulfo (M)



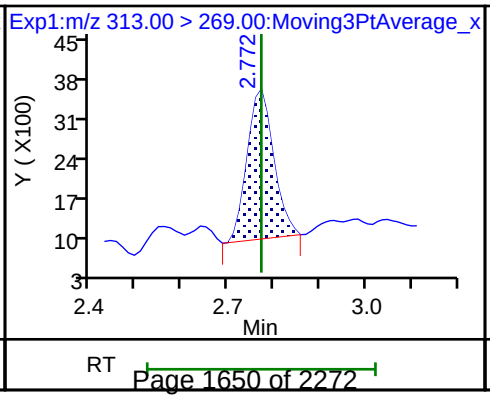
60 M2-4:2 FTS (M)



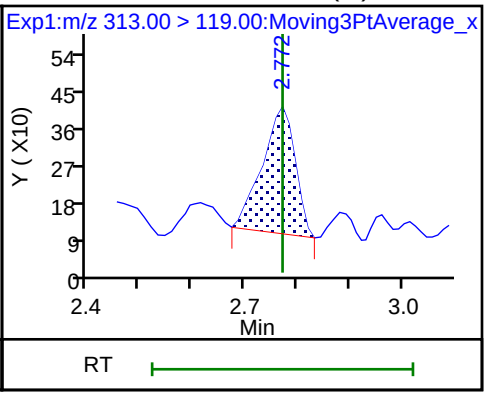
D 7 13C2 PFHxA



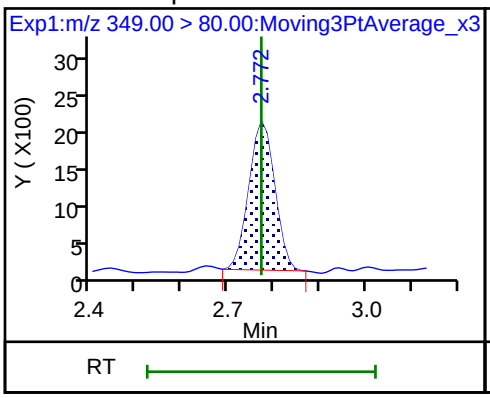
6 Perfluorohexanoic acid



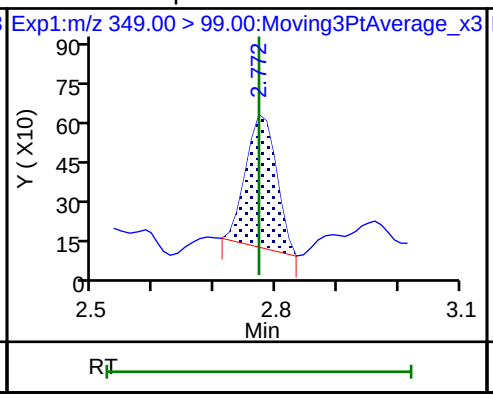
6 Perfluorohexanoic acid (M)



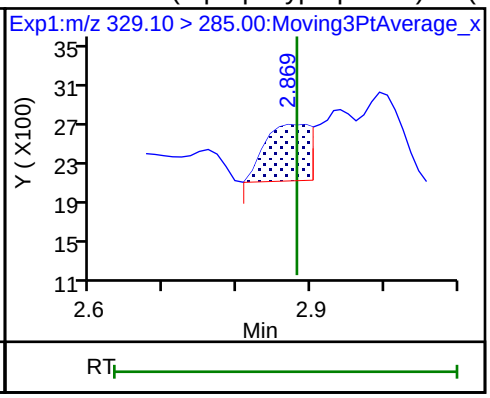
70 Perfluoropentanesulfonic acid



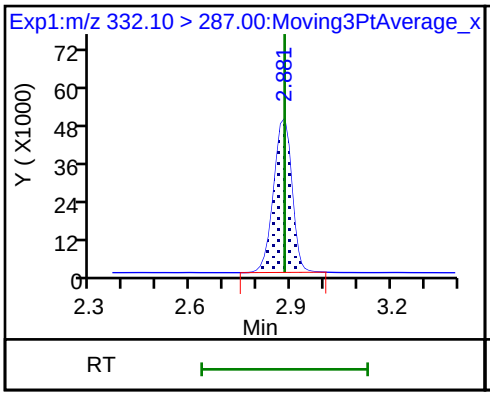
70 Perfluoropentanesulfonic acid



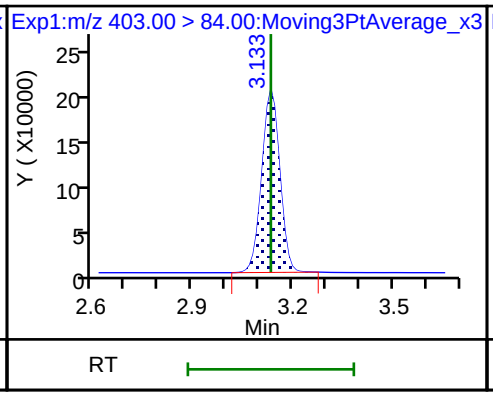
67 Perfluoro(2-propoxypropanoic) ac (M)



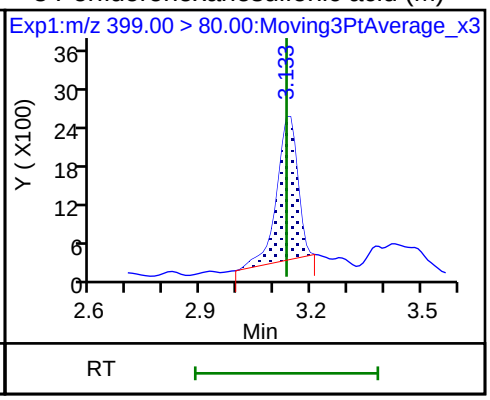
D 64 13C3 HFPO-DA



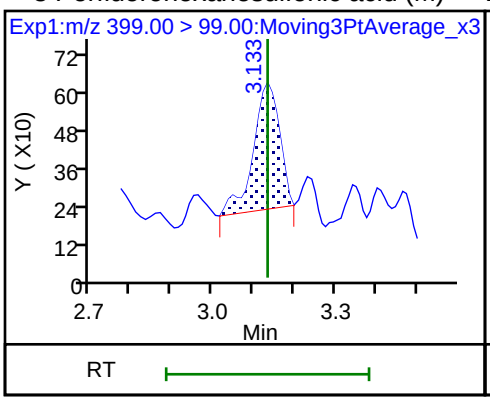
D 11 18O2 PFHxS



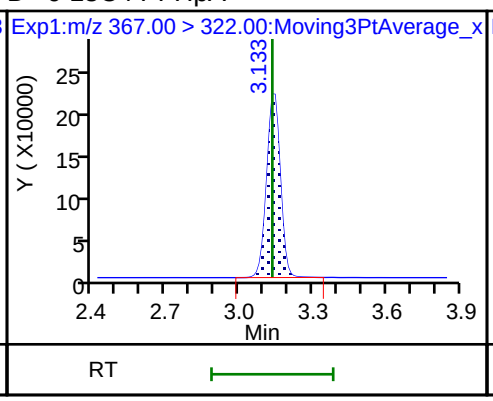
8 Perfluorohexanesulfonic acid (M)



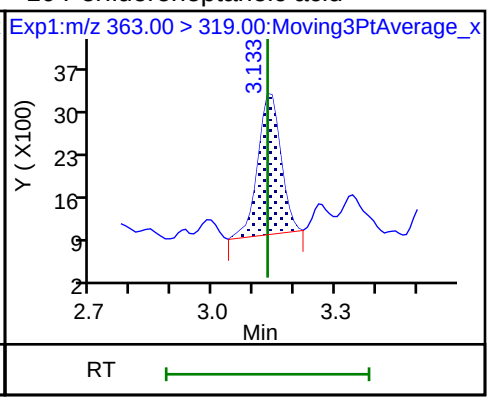
8 Perfluorohexanesulfonic acid (M)



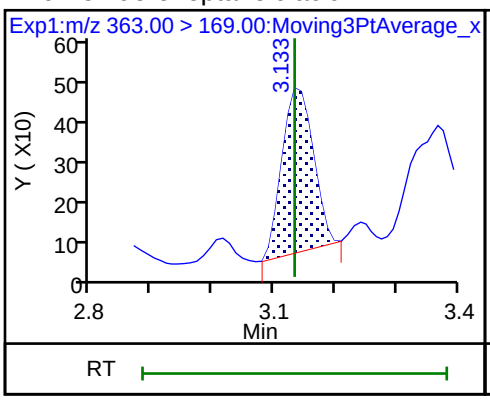
D 9 13C4 PFHpA



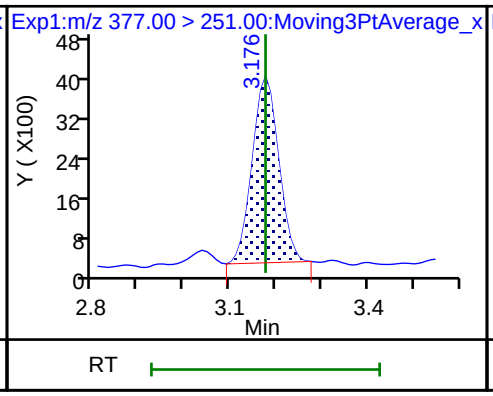
10 Perfluoroheptanoic acid



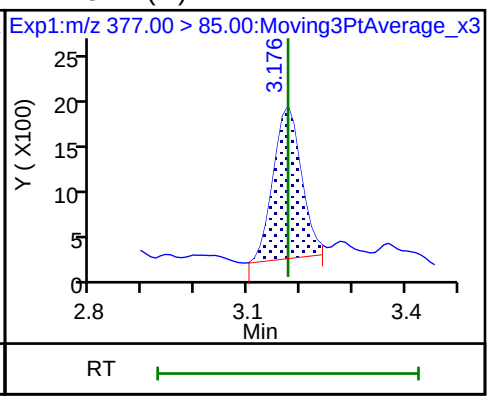
10 Perfluoroheptanoic acid



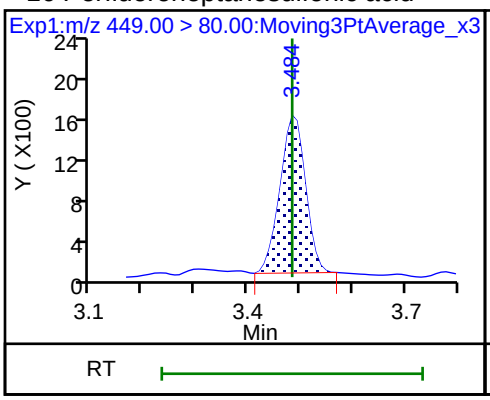
77 DONA



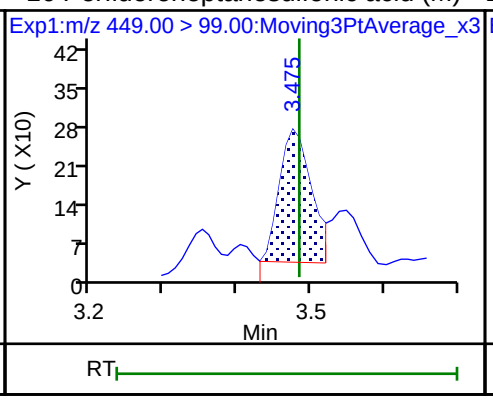
77 DONA (M)



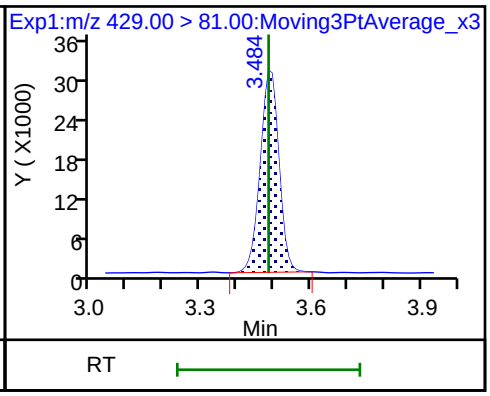
16 Perfluoroheptanesulfonic acid



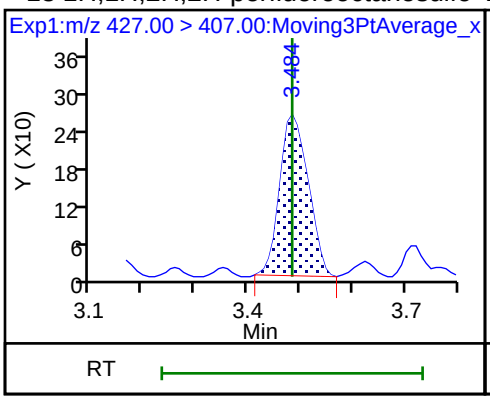
16 Perfluoroheptanesulfonic acid (M)



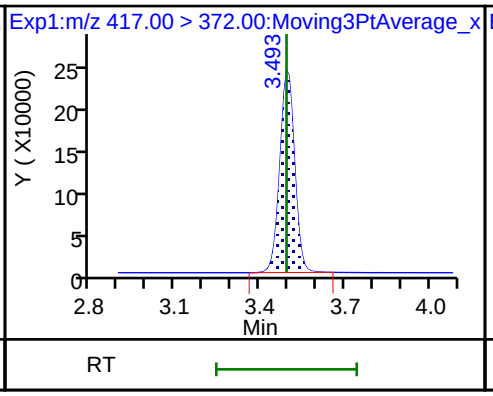
D 12 M2-6:2 FTS



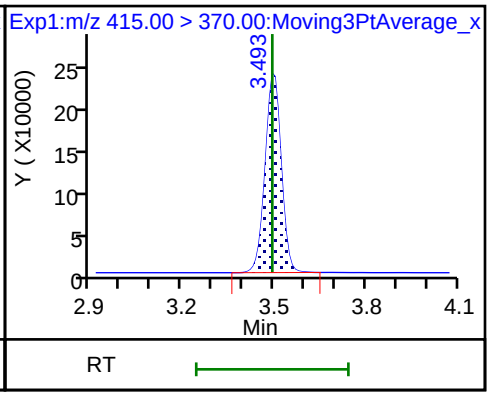
13 1H,1H,2H,2H-perfluorooctanesulfo



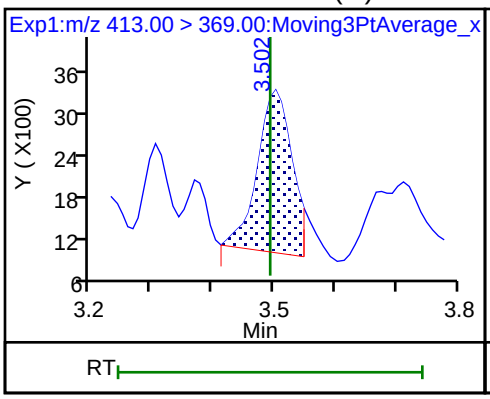
D 14 13C4 PFOA



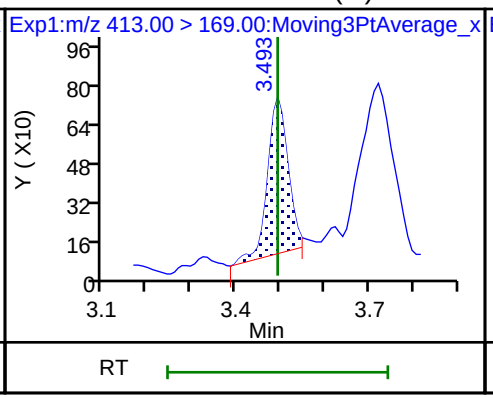
* 62 13C2 PFOA



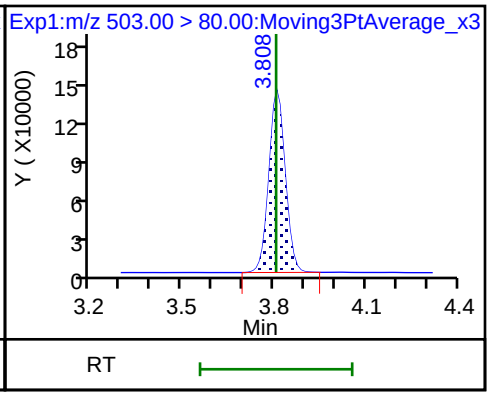
15 Perfluorooctanoic acid (M)



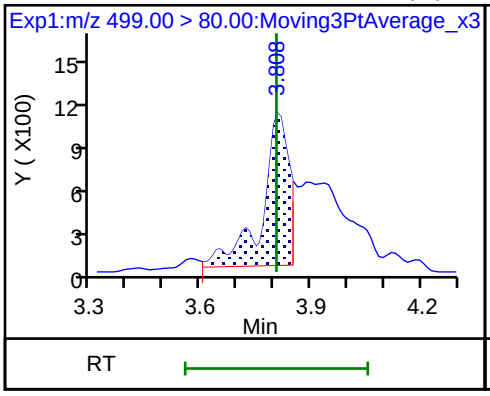
15 Perfluorooctanoic acid (M)



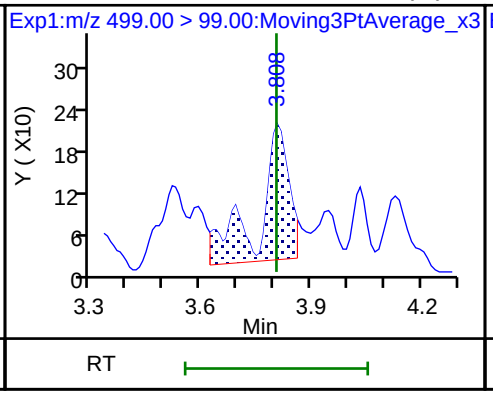
D 18 13C4 PFOS



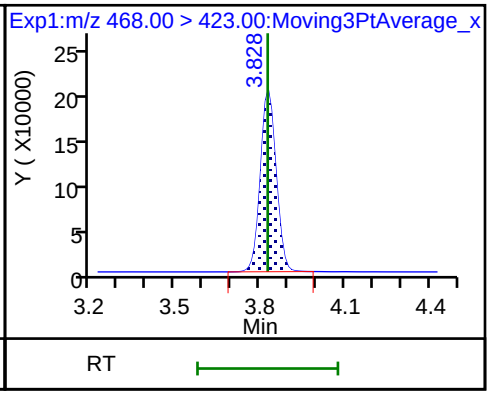
17 Perfluorooctanesulfonic acid (M)



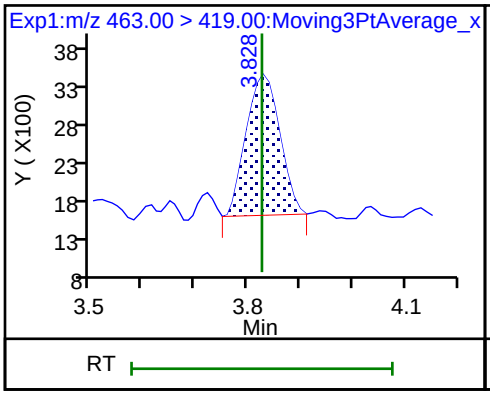
17 Perfluorooctanesulfonic acid (M)



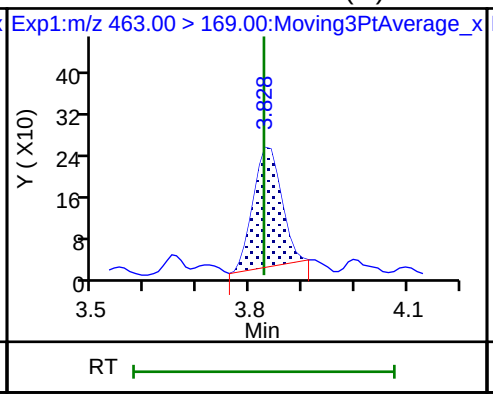
D 19 13C5 PFNA



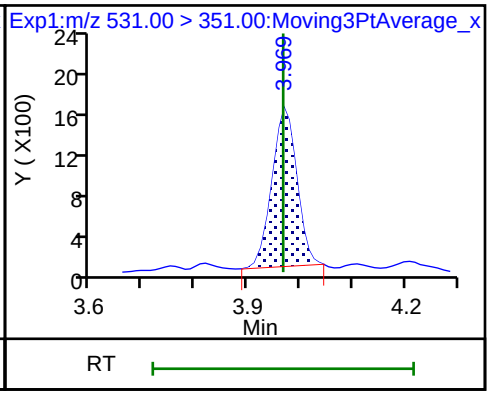
20 Perfluorononanoic acid



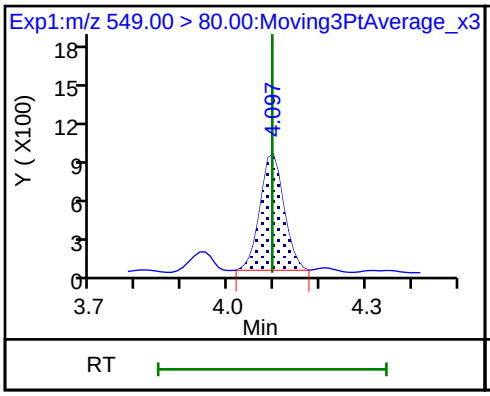
20 Perfluorononanoic acid (M)



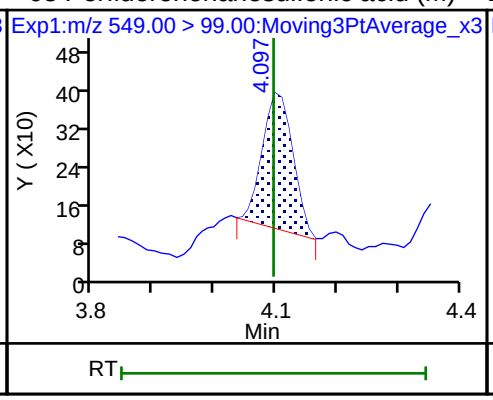
69 9-Chlorohexadecafluoro-3-oxanona



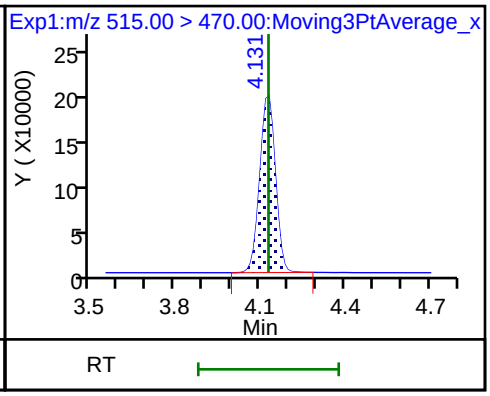
68 Perfluorononanesulfonic acid



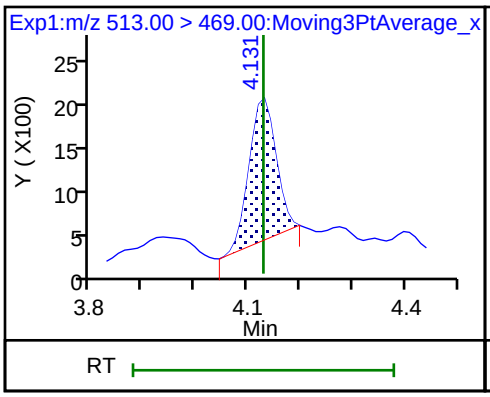
68 Perfluorononanesulfonic acid (M)



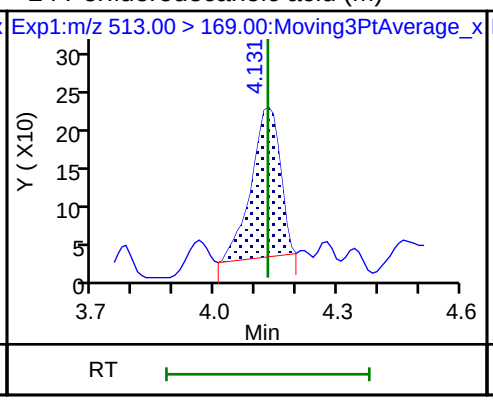
D 23 13C2 PFDA



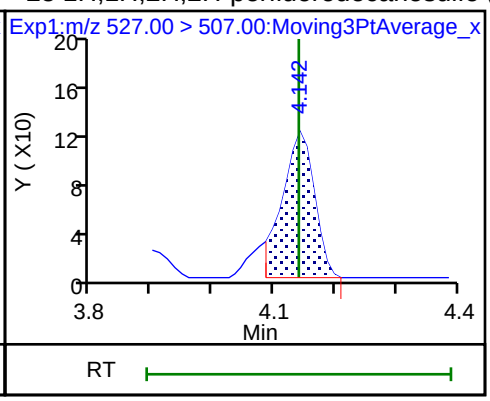
24 Perfluorodecanoic acid



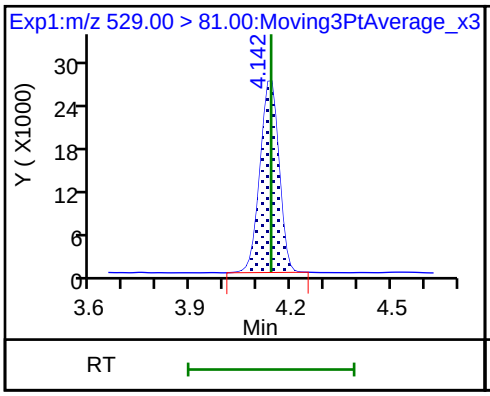
24 Perfluorodecanoic acid (M)



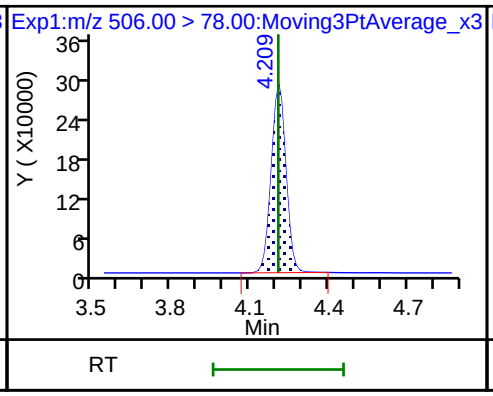
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



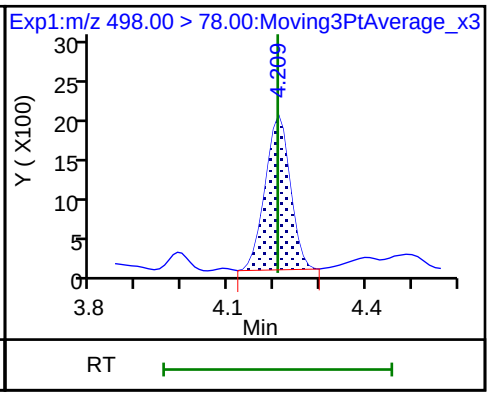
D 26 M2-8:2 FTS



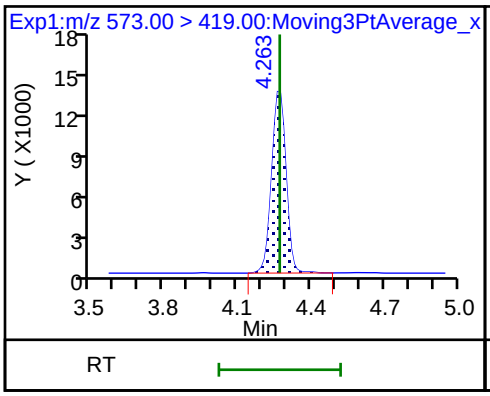
D 21 13C8 FOSA



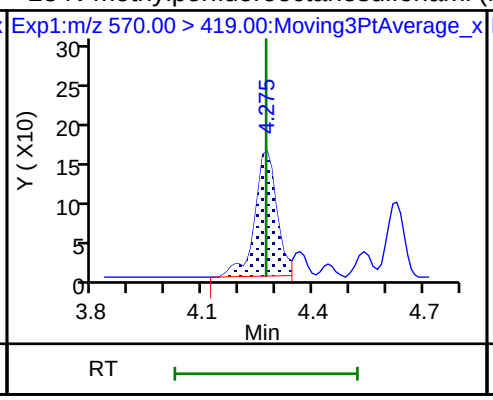
22 Perfluorooctanesulfonamide



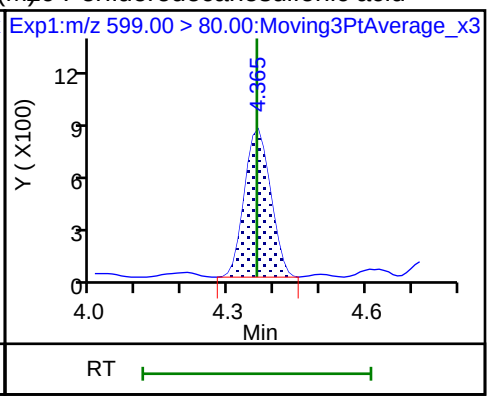
D 27 d3-NMeFOSAA



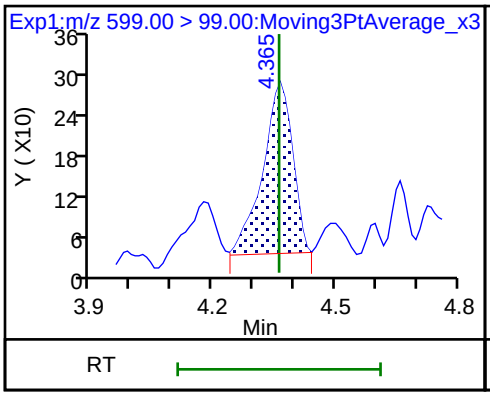
28 N-methylperfluorooctanesulfonami (M)



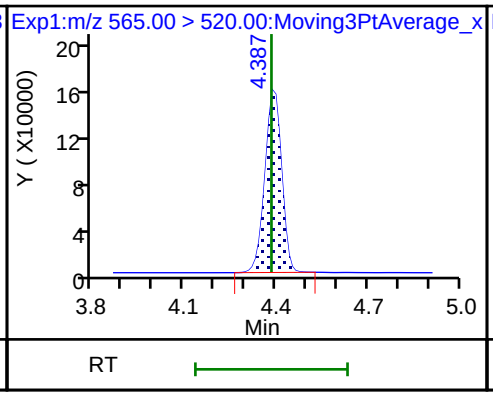
29 Perfluorodecanesulfonic acid



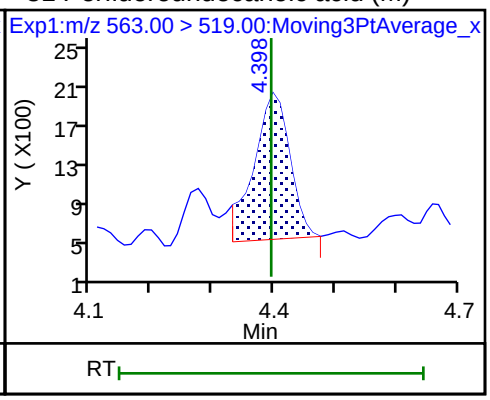
29 Perfluorodecanesulfonic acid



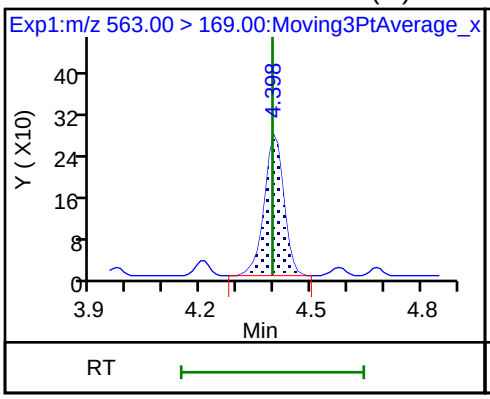
D 30 13C2 PFUnA



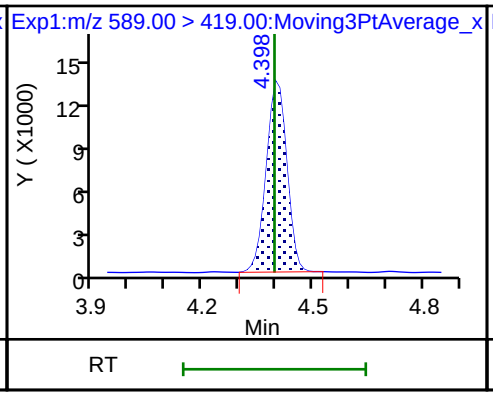
31 Perfluoroundecanoic acid (M)



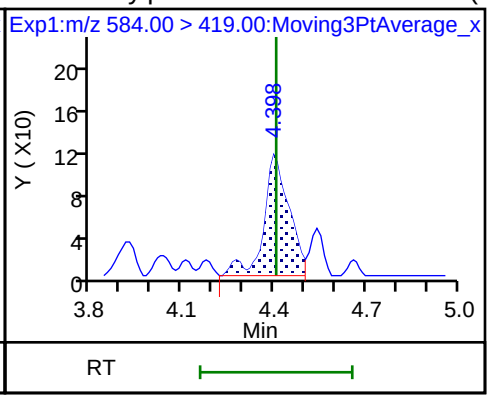
31 Perfluoroundecanoic acid (M)



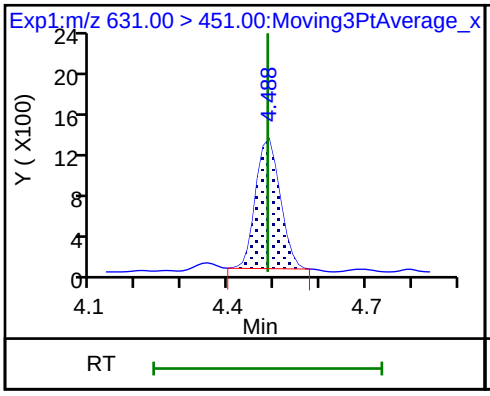
D 32 d5-NEtFOSAA



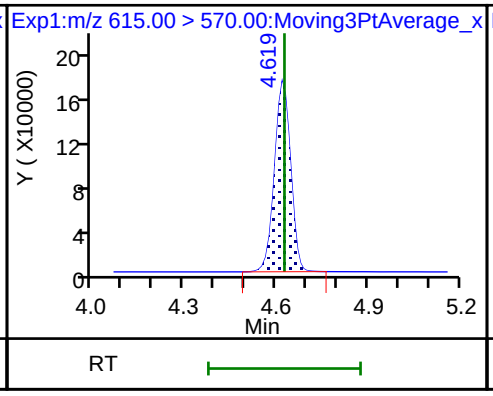
33 N-ethylperfluorooctanesulfonamid (M)



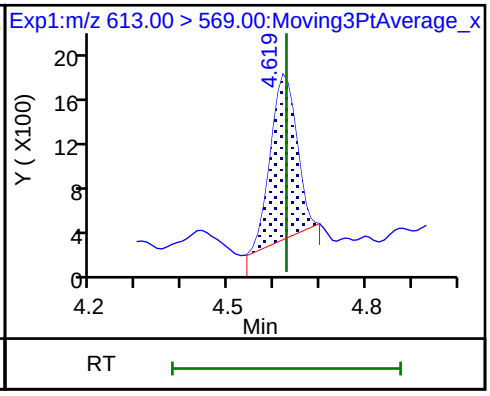
66 11-Chloroeicosafluoro-3-oxaundec



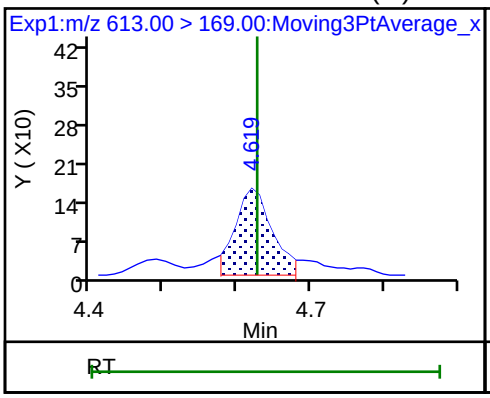
D 36 13C2 PFDoA



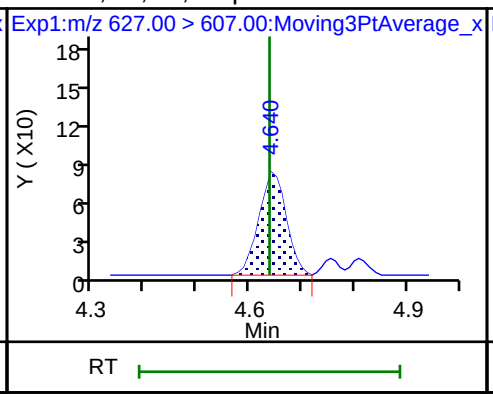
37 Perfluorododecanoic acid



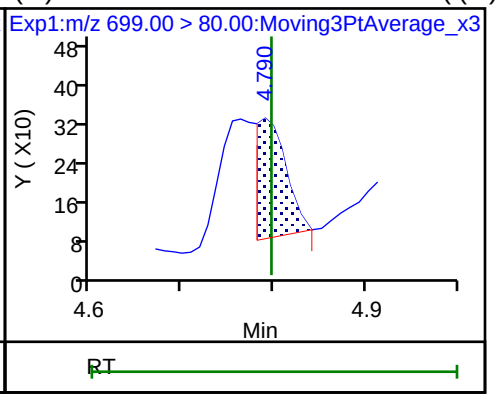
37 Perfluorododecanoic acid (M)



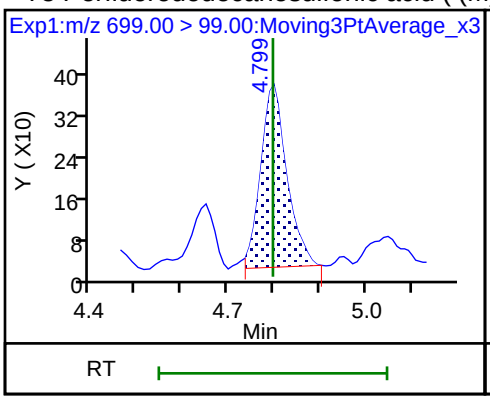
74 1H,1H,2H,2H-perfluorododecanesul (M)



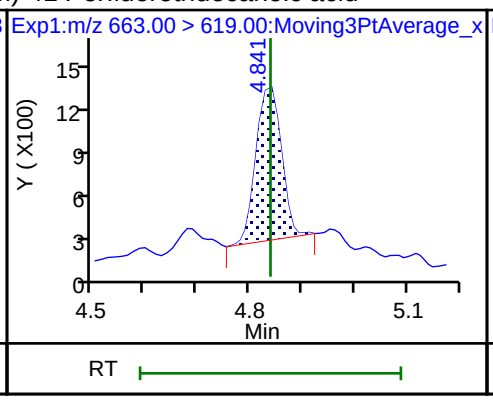
75 Perfluorododecanesulfonic acid ((M)



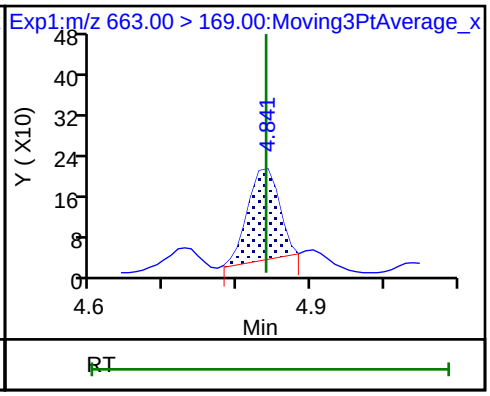
75 Perfluorododecanesulfonic acid ((M)



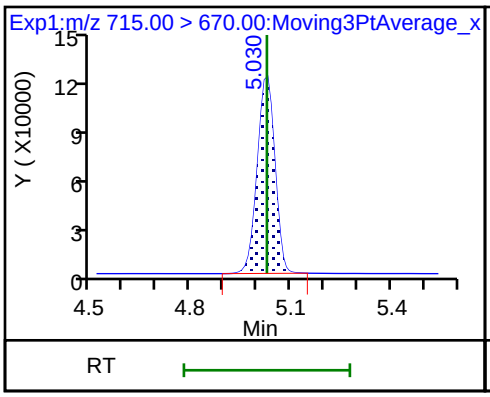
41 Perfluorotridecanoic acid



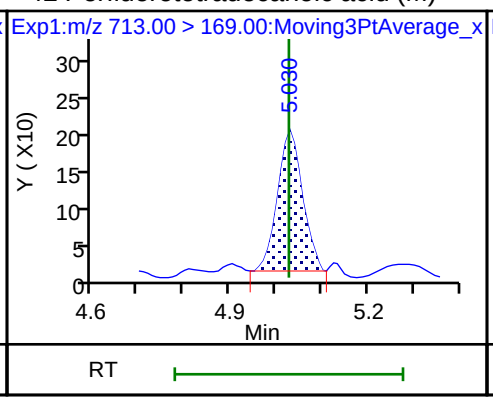
41 Perfluorotridecanoic acid



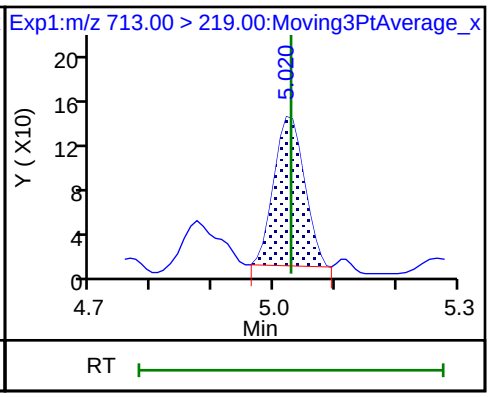
D 43 13C2 PFTeDA



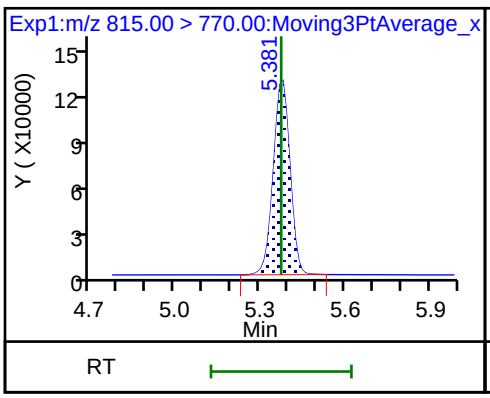
42 Perfluorotetradecanoic acid (M)



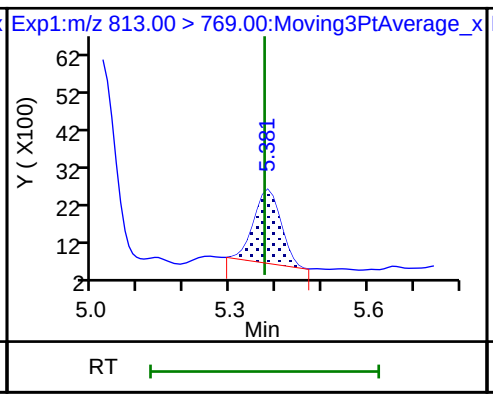
42 Perfluorotetradecanoic acid



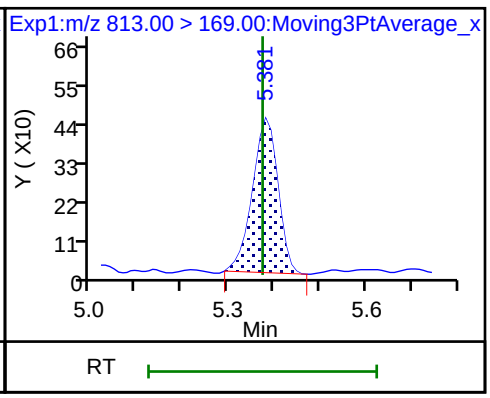
D 44 13C2 PFHxDA



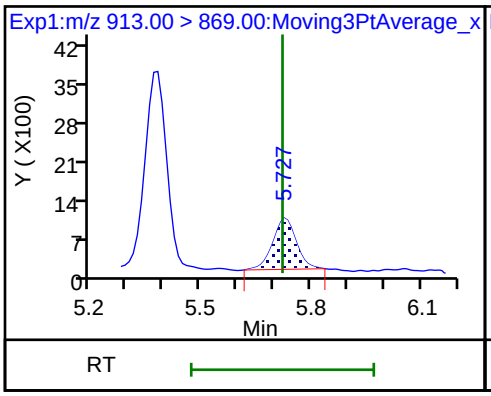
45 Perfluorohexadecanoic acid



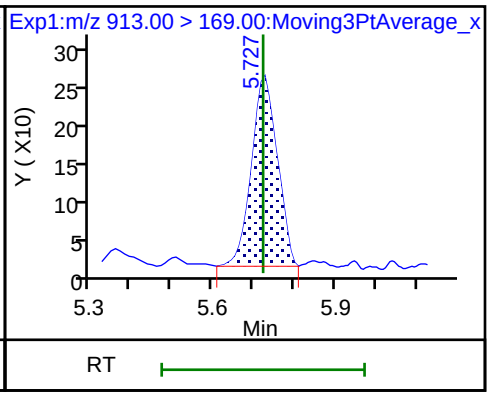
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

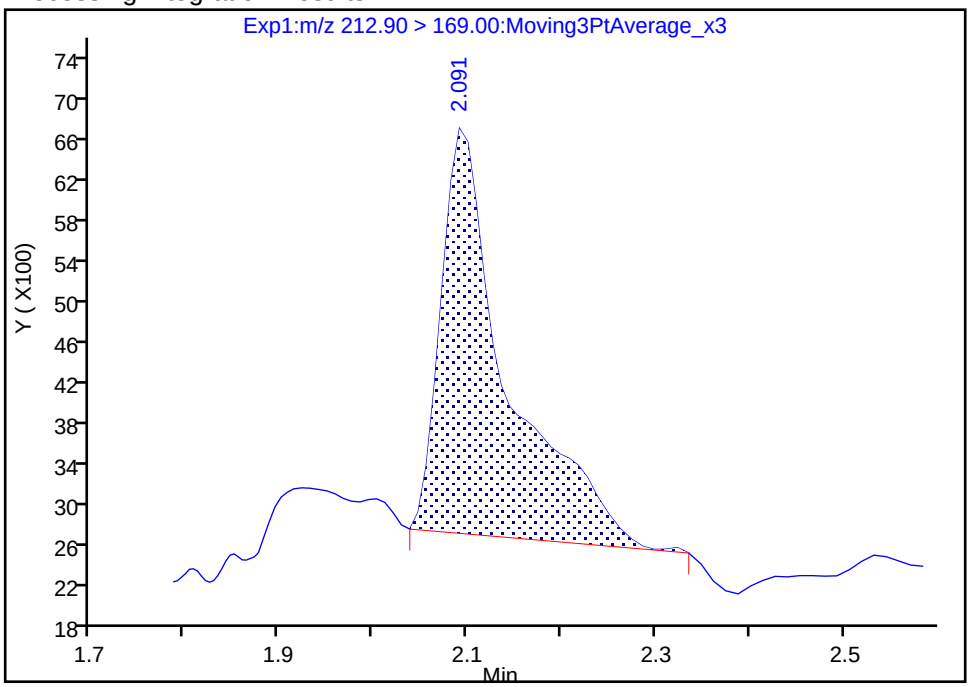
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL014.d				
Injection Date:	22-Dec-2020 13:37:53	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

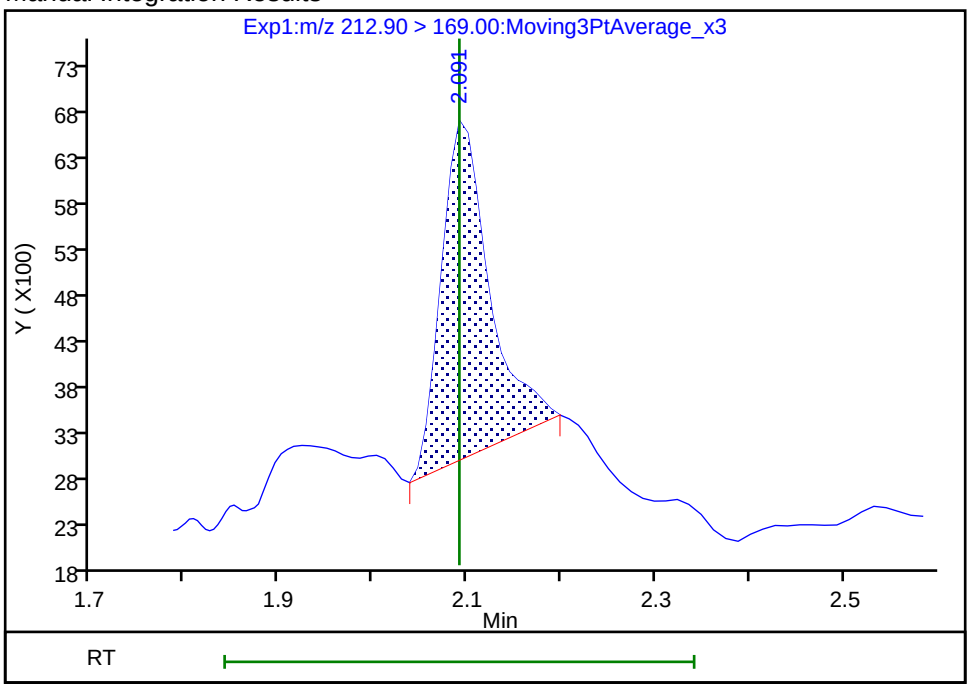
Processing Integration Results

RT: 2.09
Area: 19494
Amount: 0.020720
Amount Units: ng/ml



Manual Integration Results

RT: 2.09
Area: 12982
Amount: 0.013799
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 15:09:07

Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

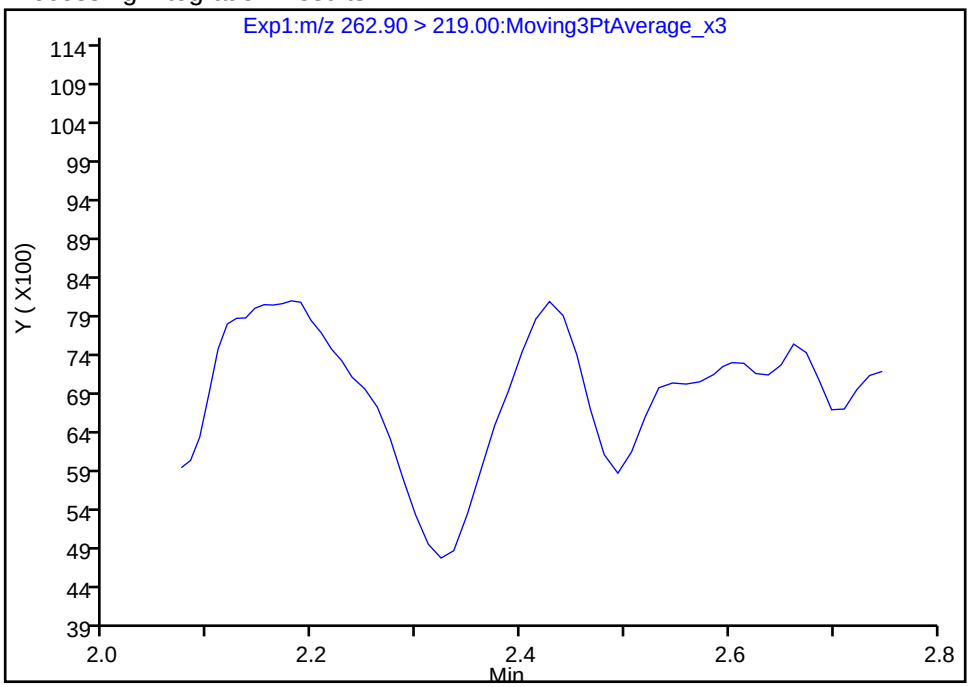
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL014.d				
Injection Date:	22-Dec-2020 13:37:53	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

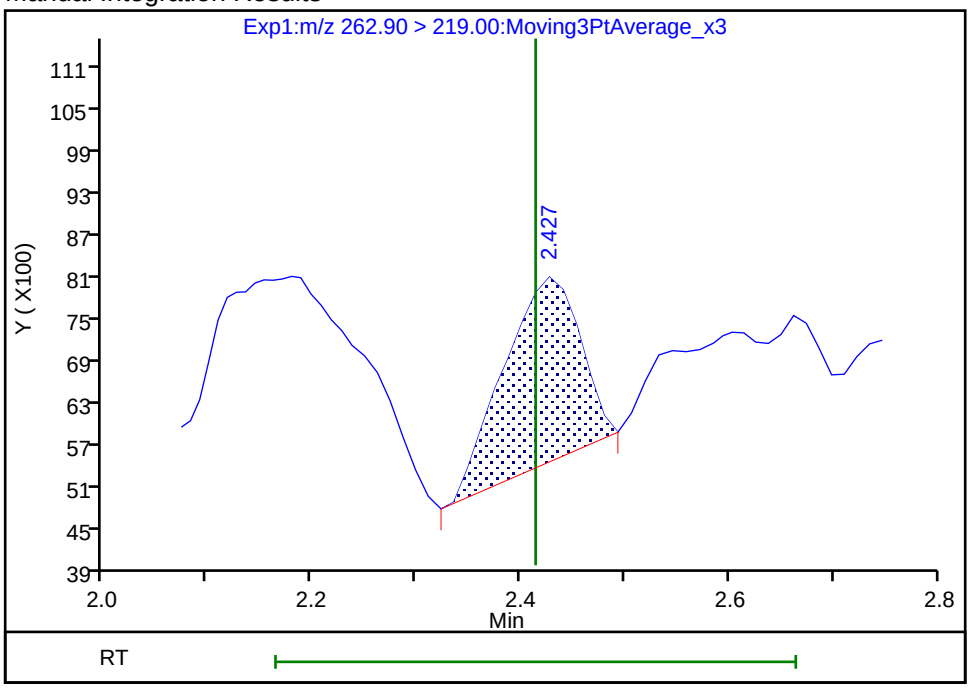
Not Detected
Expected RT: 2.41

Processing Integration Results



Manual Integration Results

RT: 2.43
Area: 13607
Amount: 0.017651
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 15:08:53
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

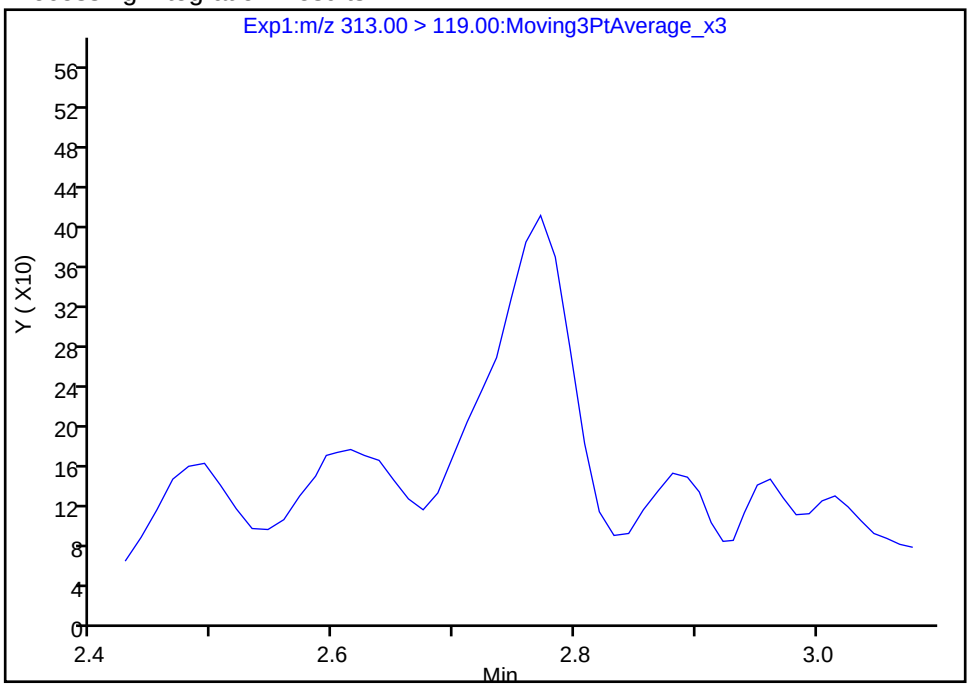
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL014.d				
Injection Date:	22-Dec-2020 13:37:53	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

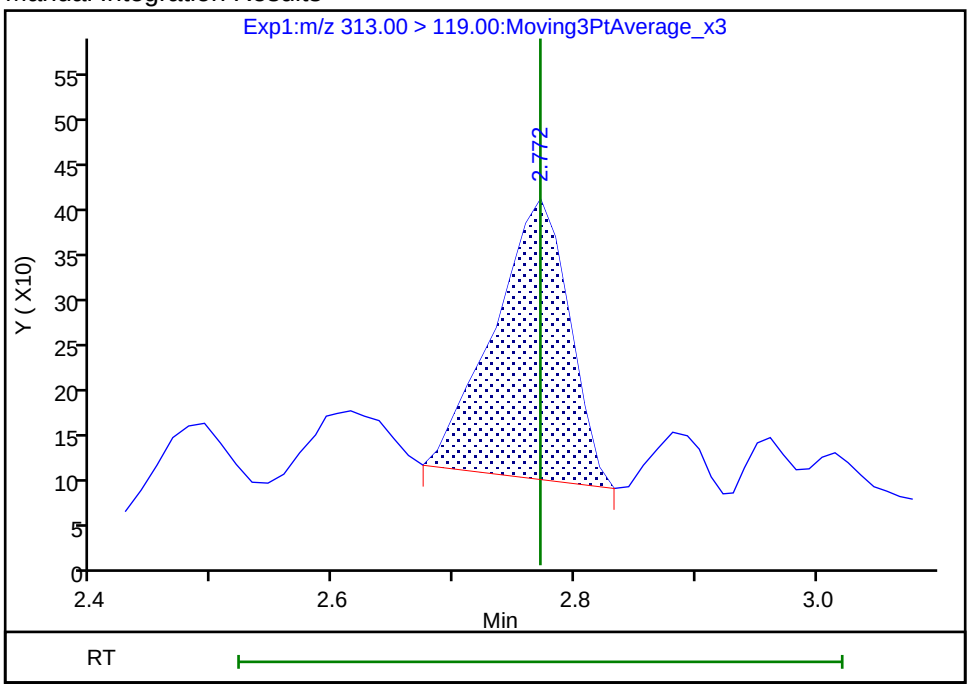
Not Detected
Expected RT: 2.77

Processing Integration Results



Manual Integration Results

RT: 2.77
Area: 1355
Amount: 0.013375
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 15:09:25
Audit Action: Manually Integrated Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington

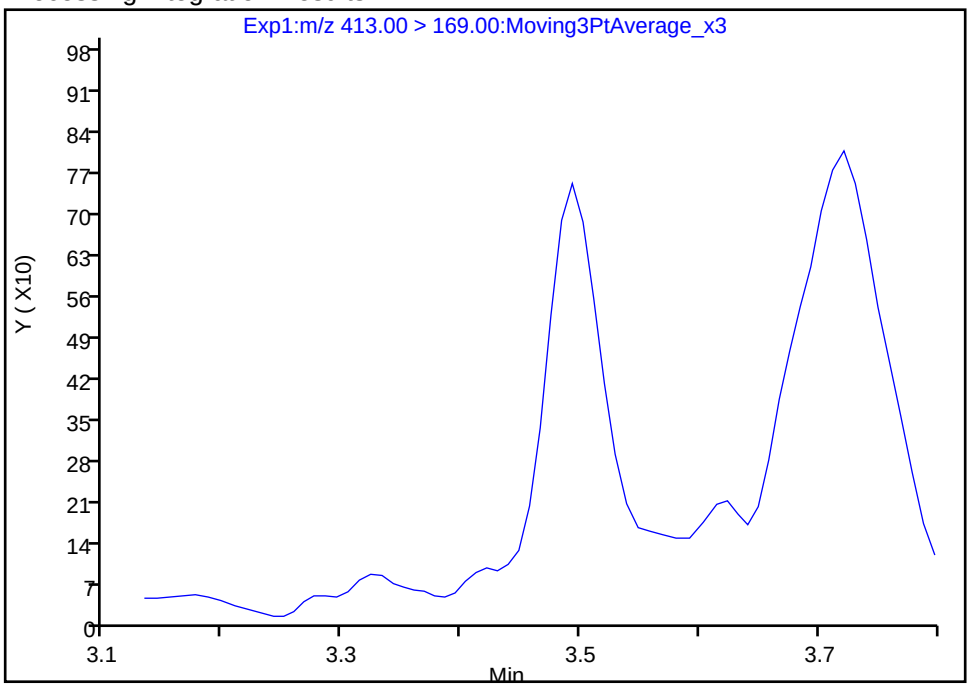
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL014.d				
Injection Date:	22-Dec-2020 13:37:53	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

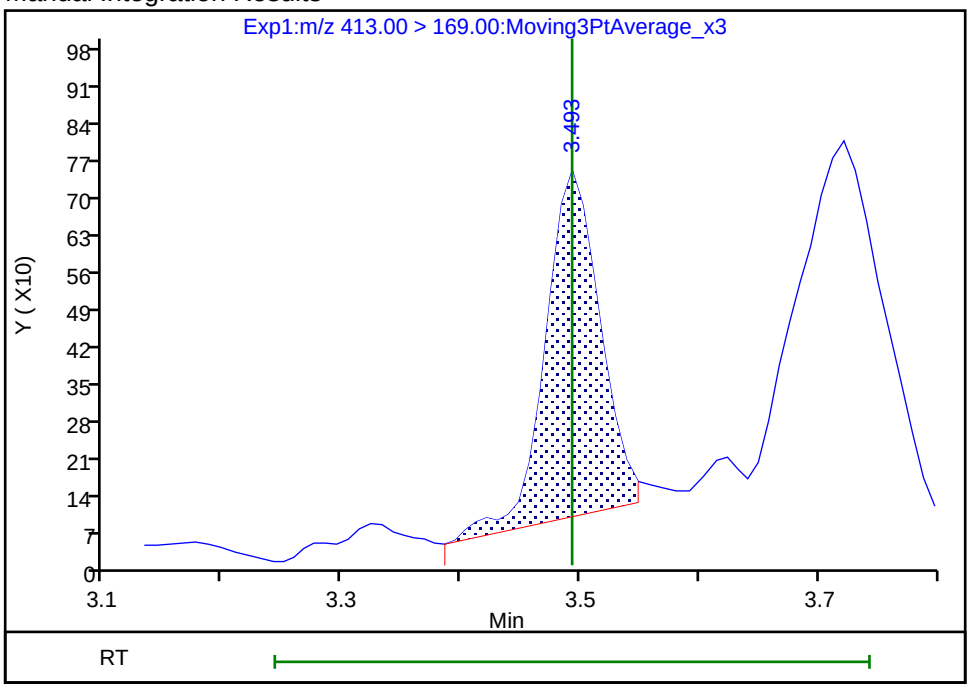
Not Detected
Expected RT: 3.49

Processing Integration Results



Manual Integration Results

RT: 3.49
Area: 2098
Amount: 0.012125
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 15:10:29
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

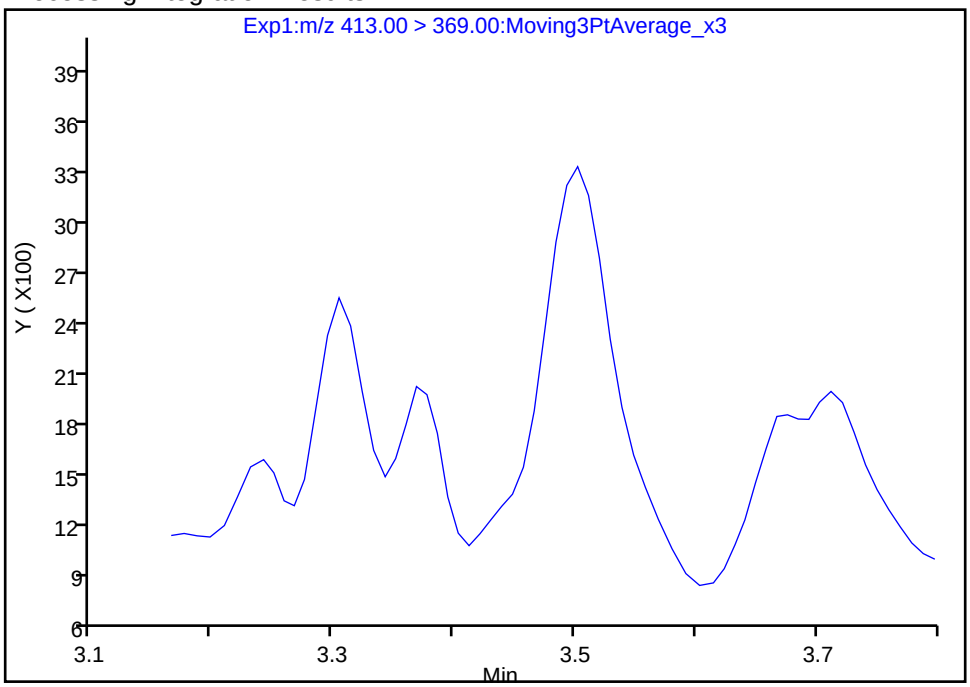
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL014.d				
Injection Date:	22-Dec-2020 13:37:53	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

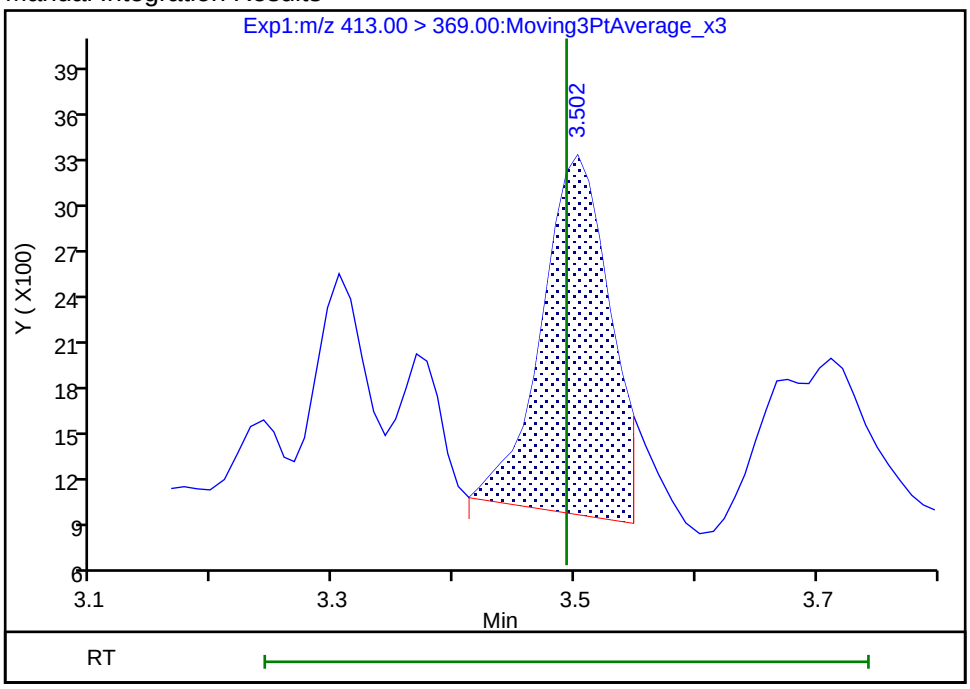
Not Detected
Expected RT: 3.49

Processing Integration Results



Manual Integration Results

RT: 3.50
Area: 9141
Amount: 0.012125
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 15:10:33
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

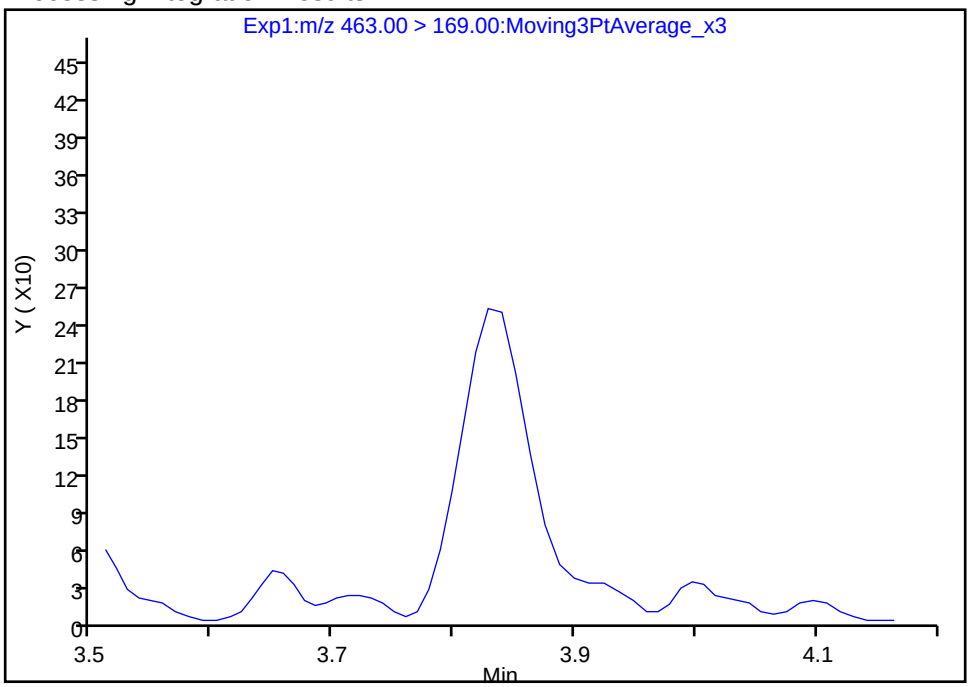
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL014.d				
Injection Date:	22-Dec-2020 13:37:53	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

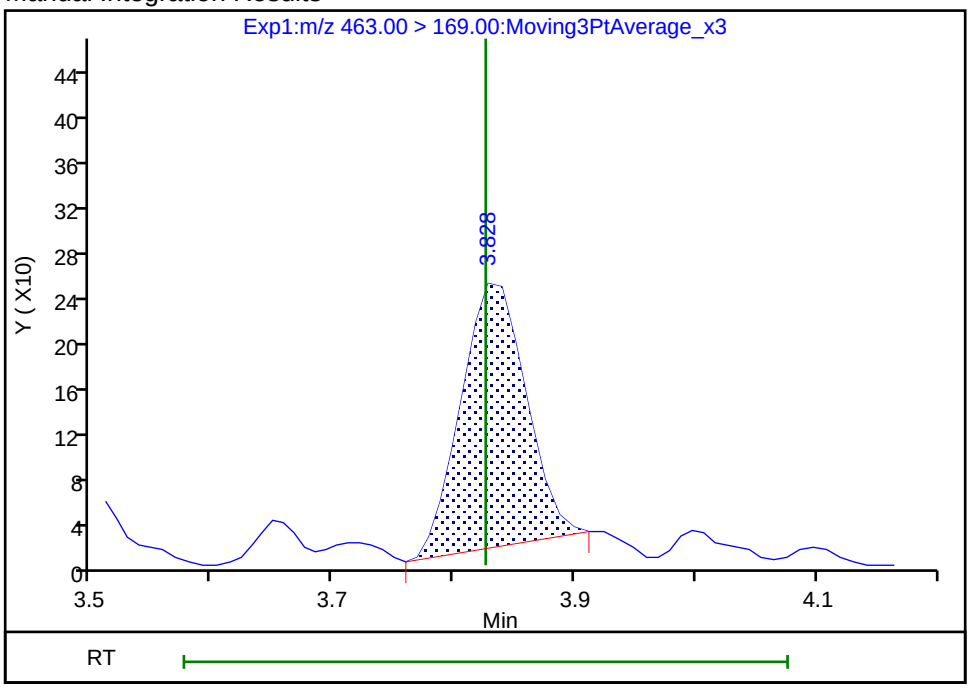
Not Detected
Expected RT: 3.83

Processing Integration Results



Manual Integration Results

RT: 3.83
Area: 881
Amount: 0.012125
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 15:11:27
Audit Action: Manually Integrated Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington

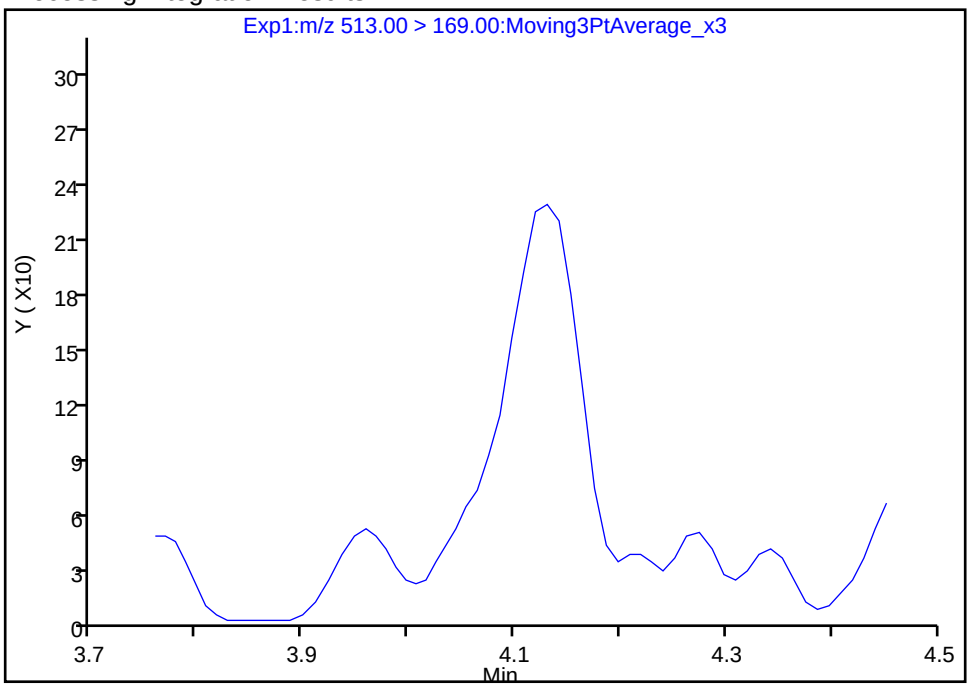
Data File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL014.d
Injection Date: 22-Dec-2020 13:37:53 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

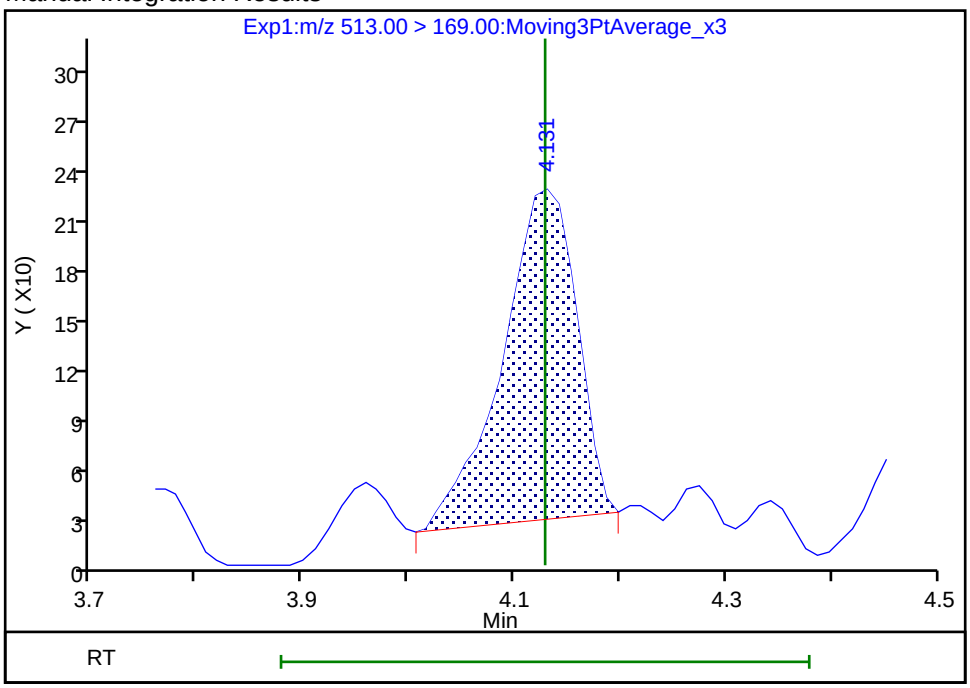
Not Detected
Expected RT: 4.13

Processing Integration Results



Manual Integration Results

RT: 4.13
Area: 974
Amount: 0.009551
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 15:11:38
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

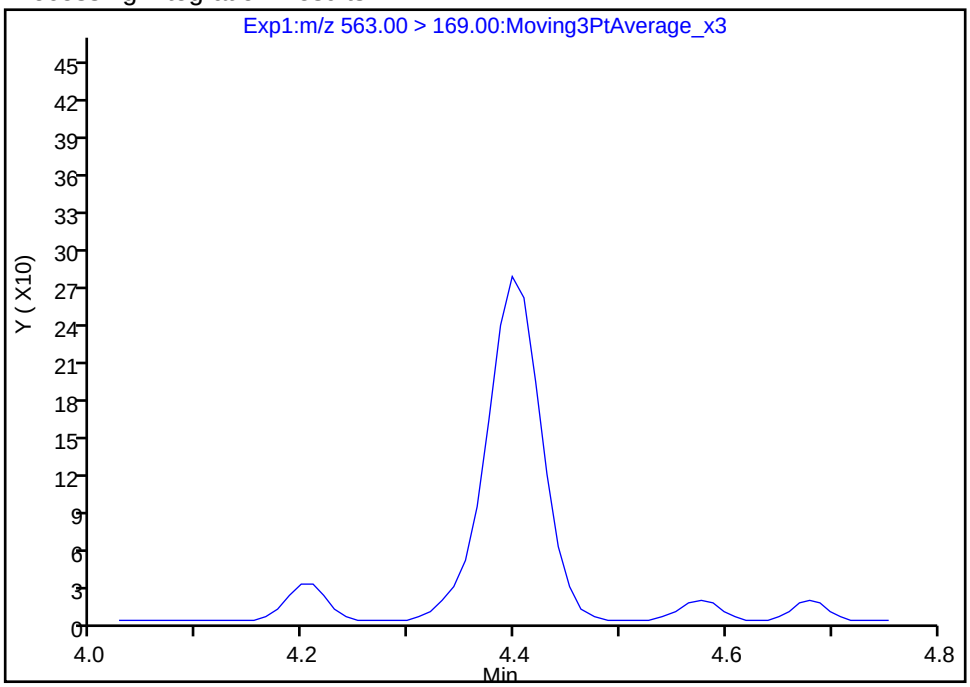
Data File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL014.d
Injection Date: 22-Dec-2020 13:37:53 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

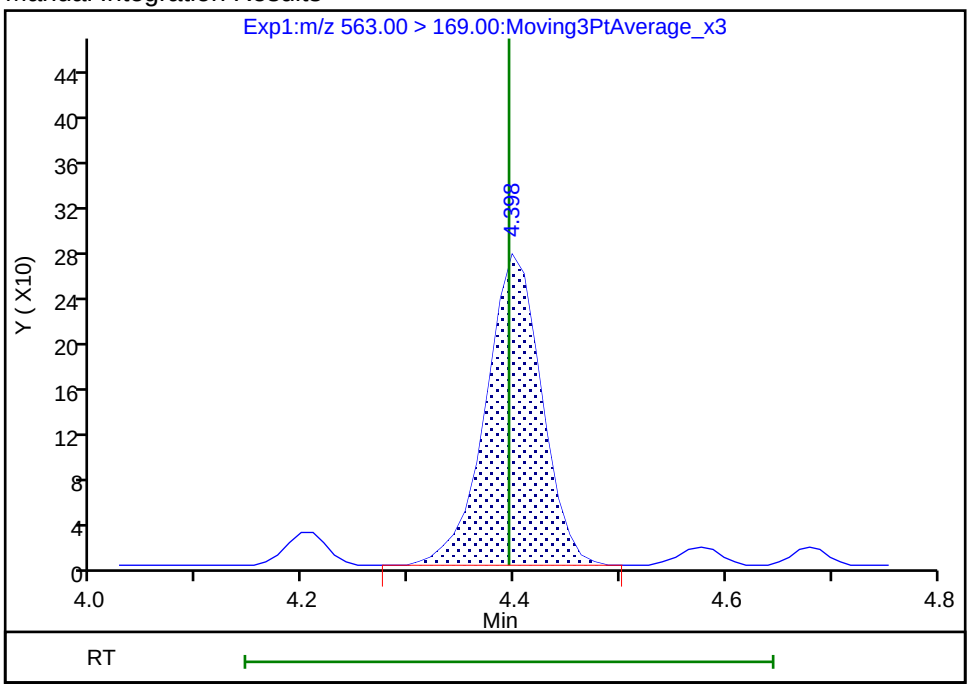
Not Detected
Expected RT: 4.39

Processing Integration Results



Manual Integration Results

RT: 4.40
Area: 1008
Amount: 0.012137
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 15:14:13
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

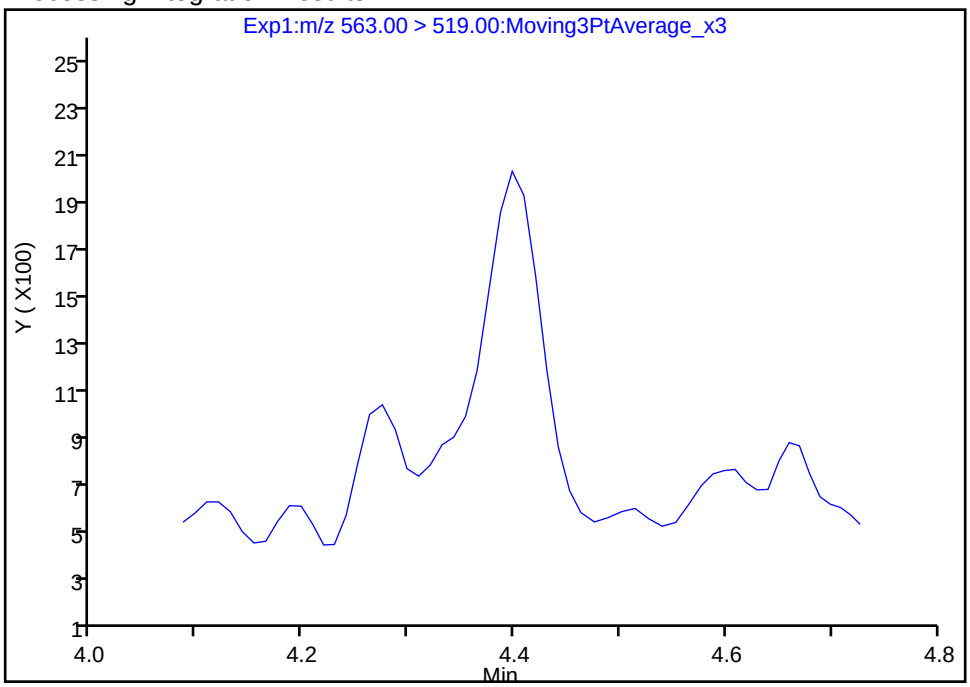
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL014.d				
Injection Date:	22-Dec-2020 13:37:53	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

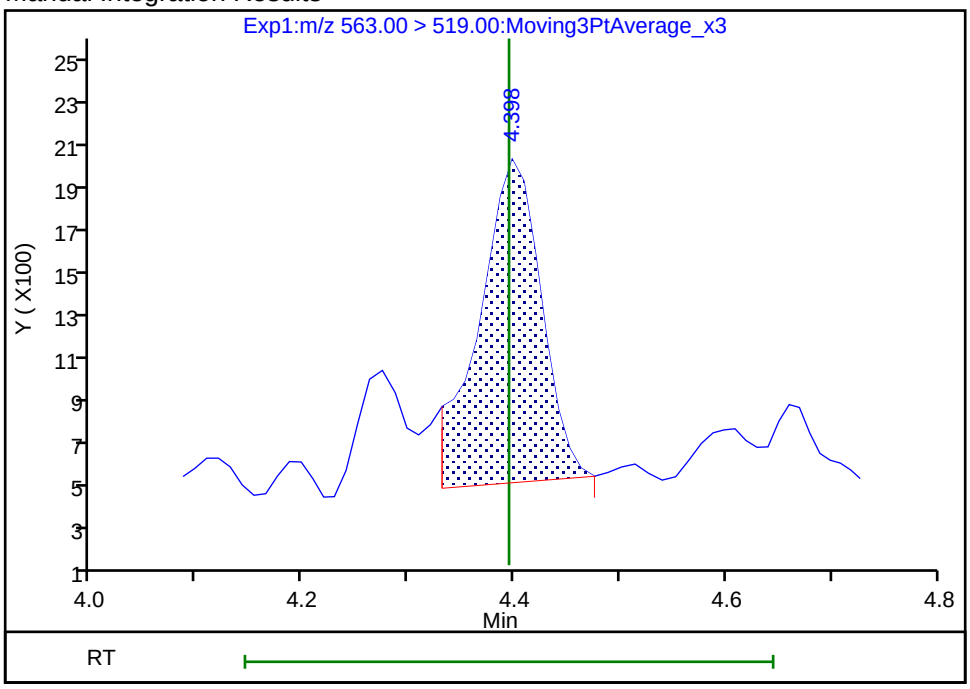
Not Detected
Expected RT: 4.39

Processing Integration Results



Manual Integration Results

RT: 4.40
Area: 5801
Amount: 0.012137
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 15:14:21
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

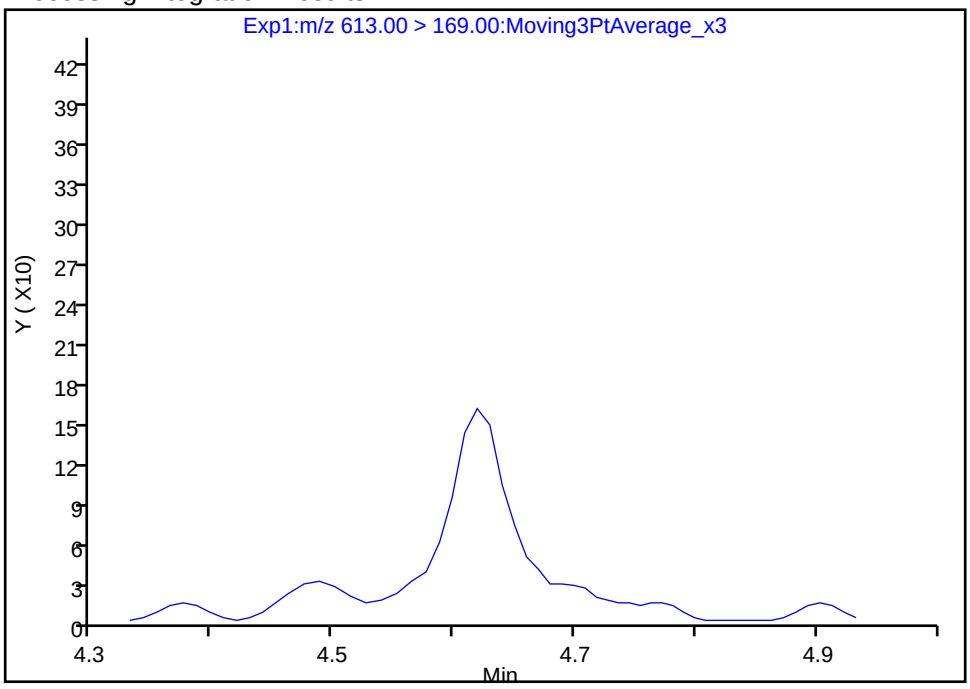
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL014.d				
Injection Date:	22-Dec-2020 13:37:53	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

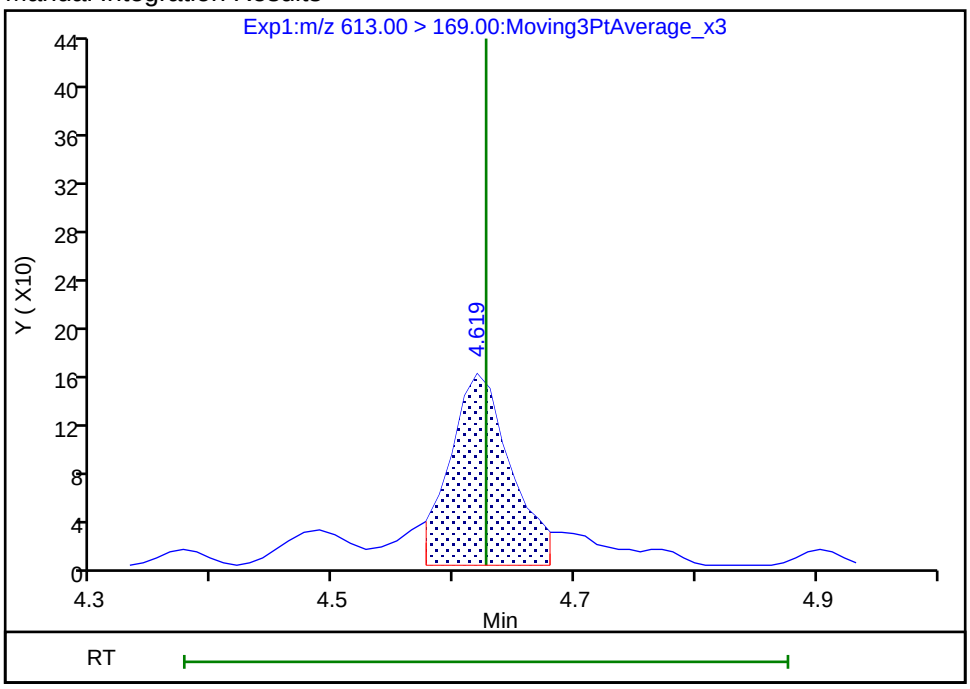
Not Detected
Expected RT: 4.63

Processing Integration Results



Manual Integration Results

RT: 4.62
Area: 543
Amount: 0.010261
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 15:15:22
Audit Action: Manually Integrated Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington

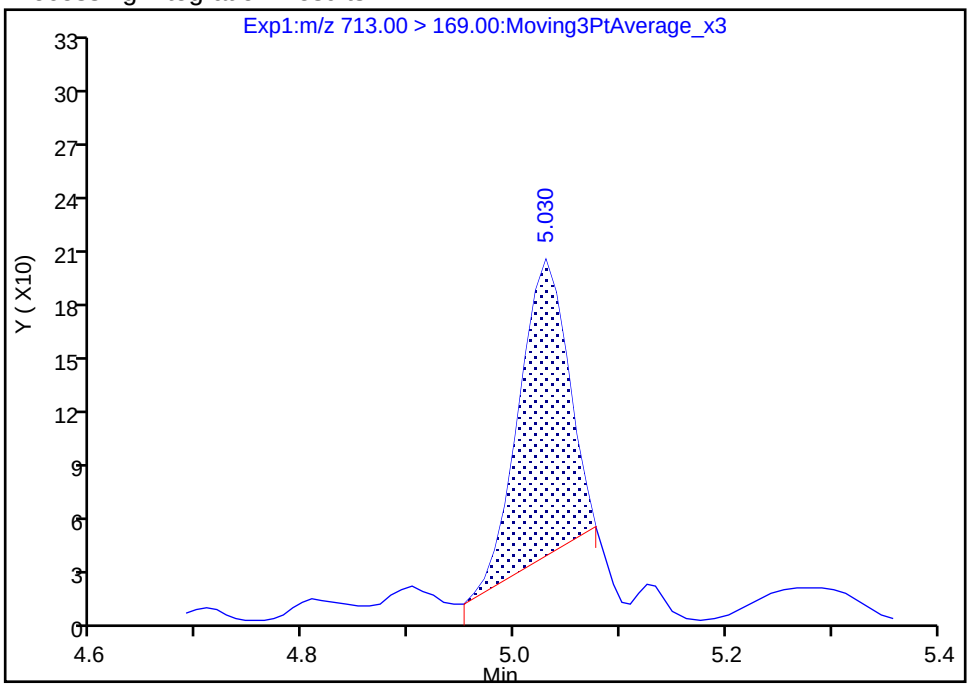
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL014.d				
Injection Date:	22-Dec-2020 13:37:53	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

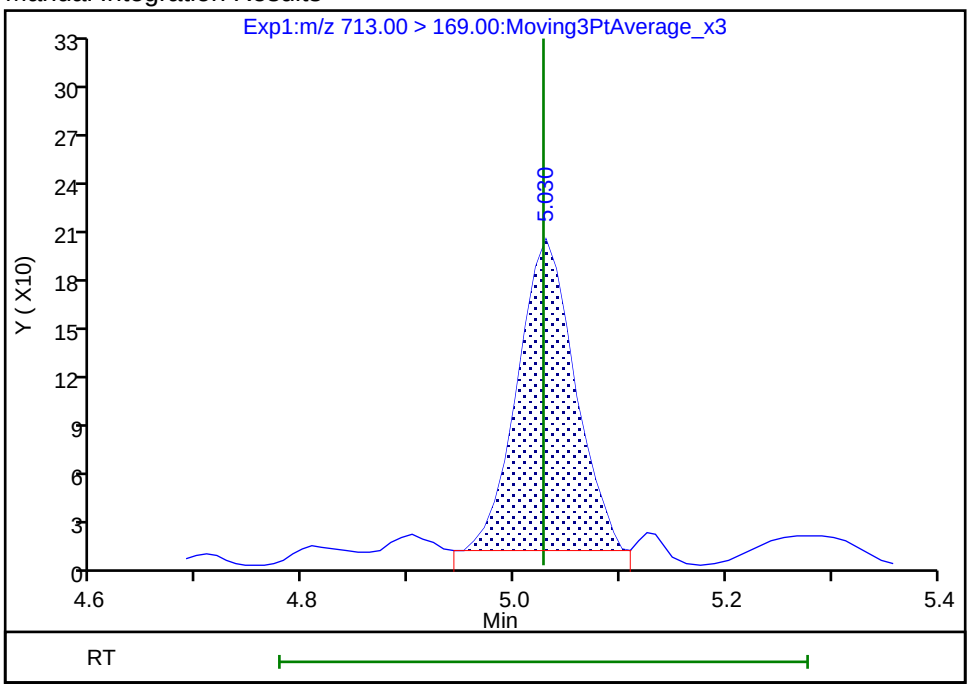
Processing Integration Results

RT: 5.03
Area: 527
Amount: 0.007894
Amount Units: ng/ml



Manual Integration Results

RT: 5.03
Area: 718
Amount: 0.010754
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 15:16:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

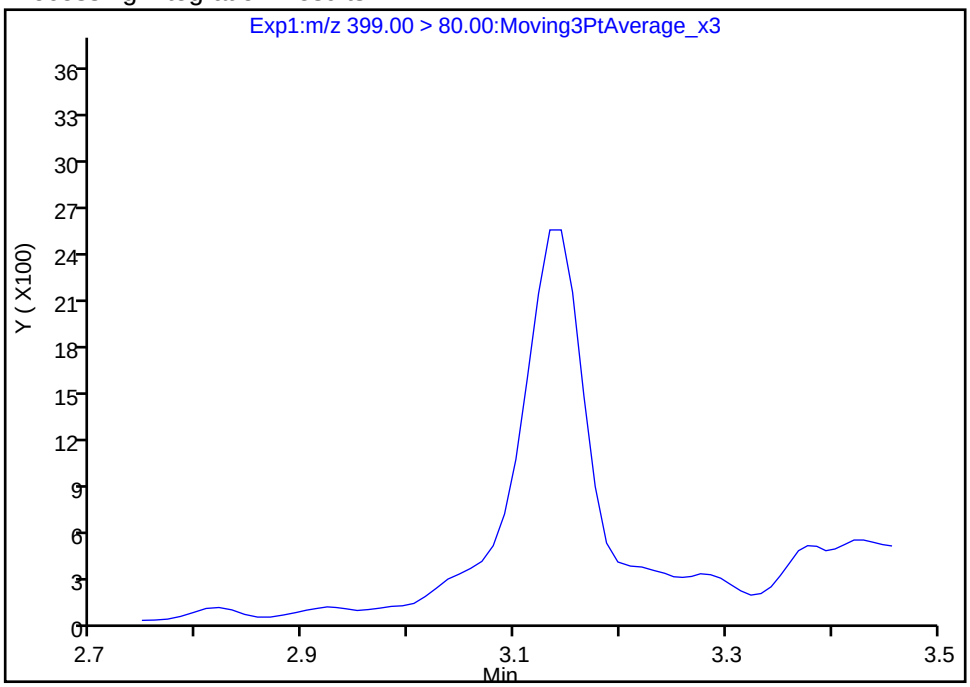
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL014.d				
Injection Date:	22-Dec-2020 13:37:53	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

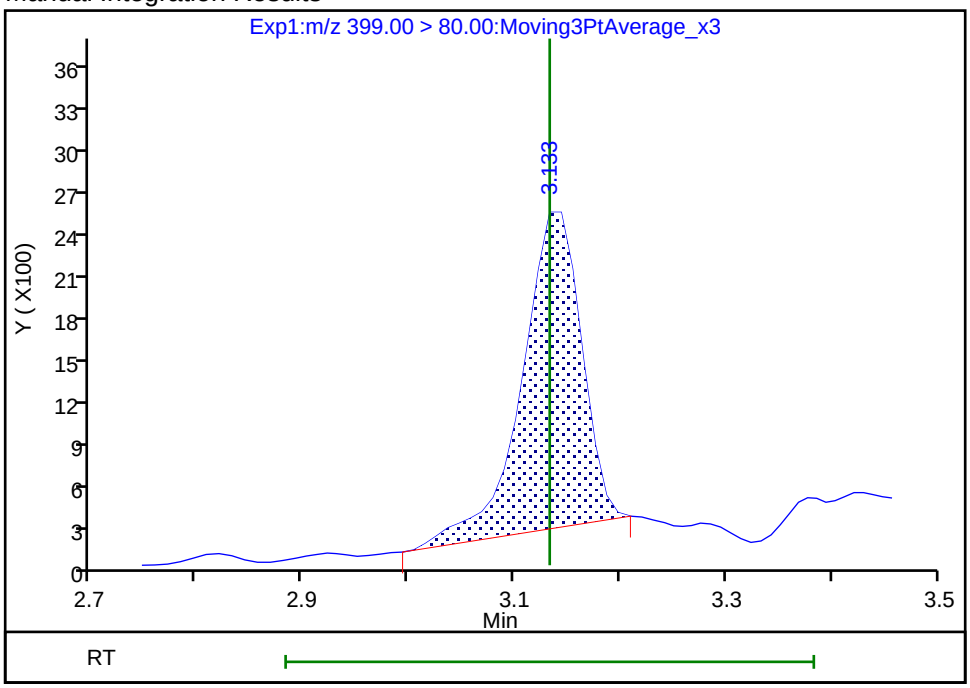
Not Detected
Expected RT: 3.13

Processing Integration Results



Manual Integration Results

RT: 3.13
Area: 8748
Amount: 0.011496
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 15:09:38
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

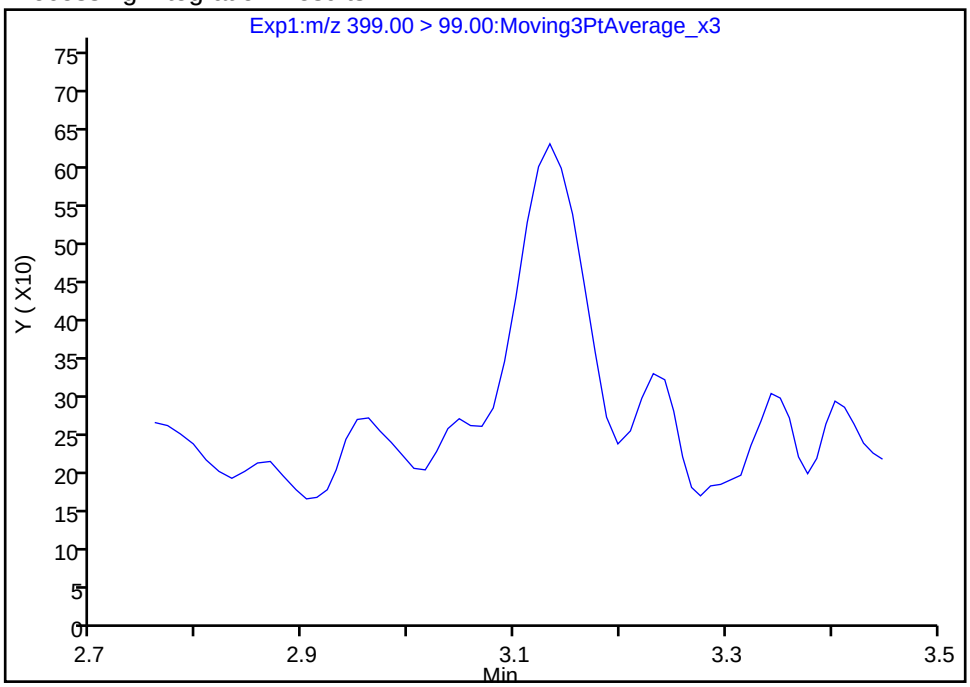
Data File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL014.d
Injection Date: 22-Dec-2020 13:37:53 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

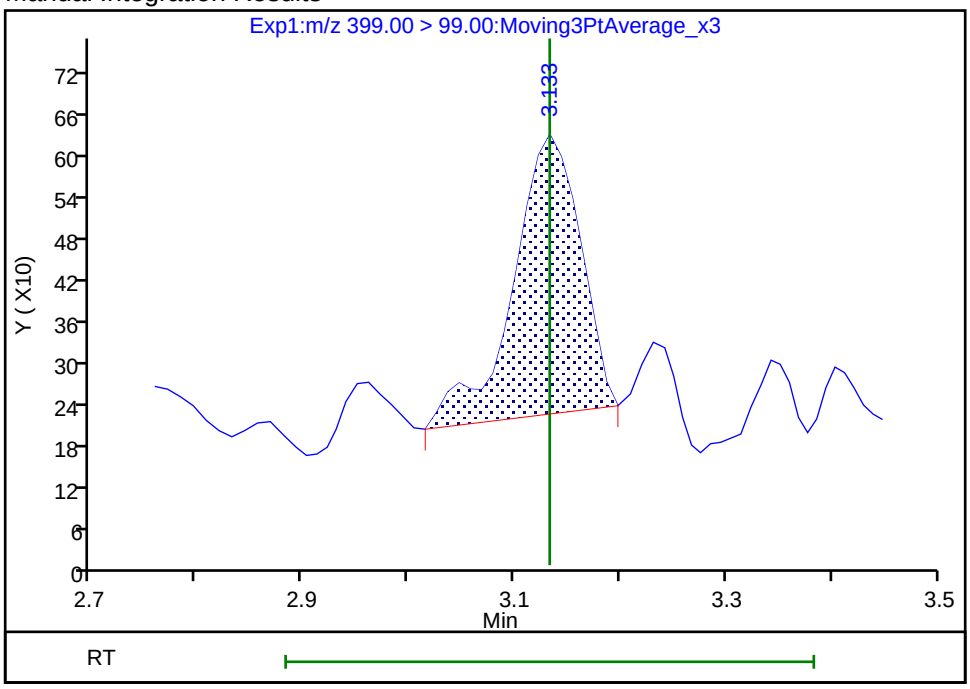
Not Detected
Expected RT: 3.13

Processing Integration Results



Manual Integration Results

RT: 3.13
Area: 1791
Amount: 0.011496
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 15:09:44
Audit Action: Manually Integrated Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington

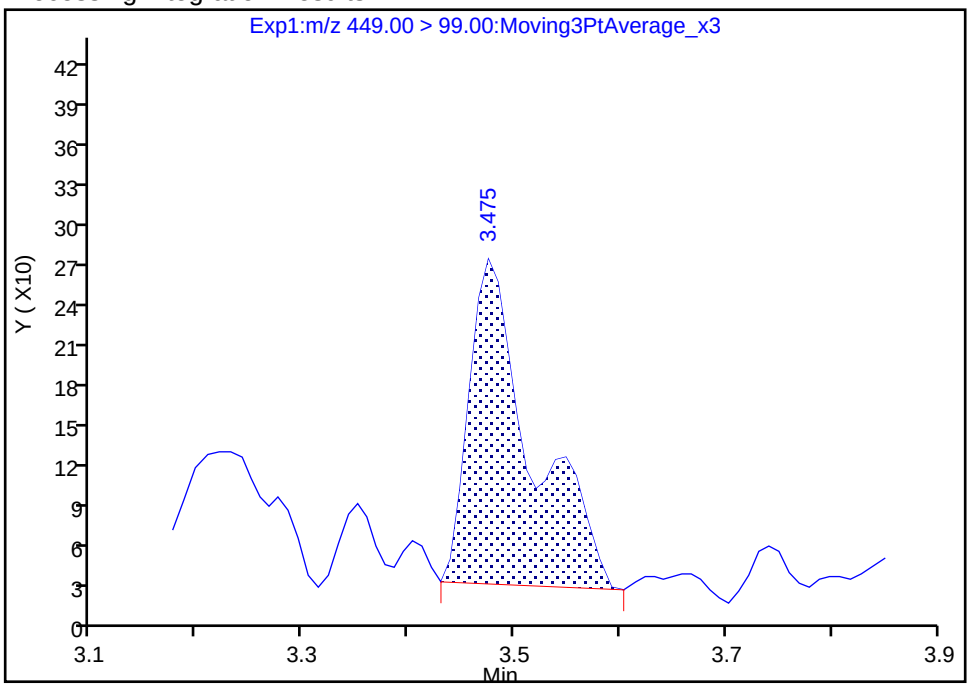
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL014.d				
Injection Date:	22-Dec-2020 13:37:53	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

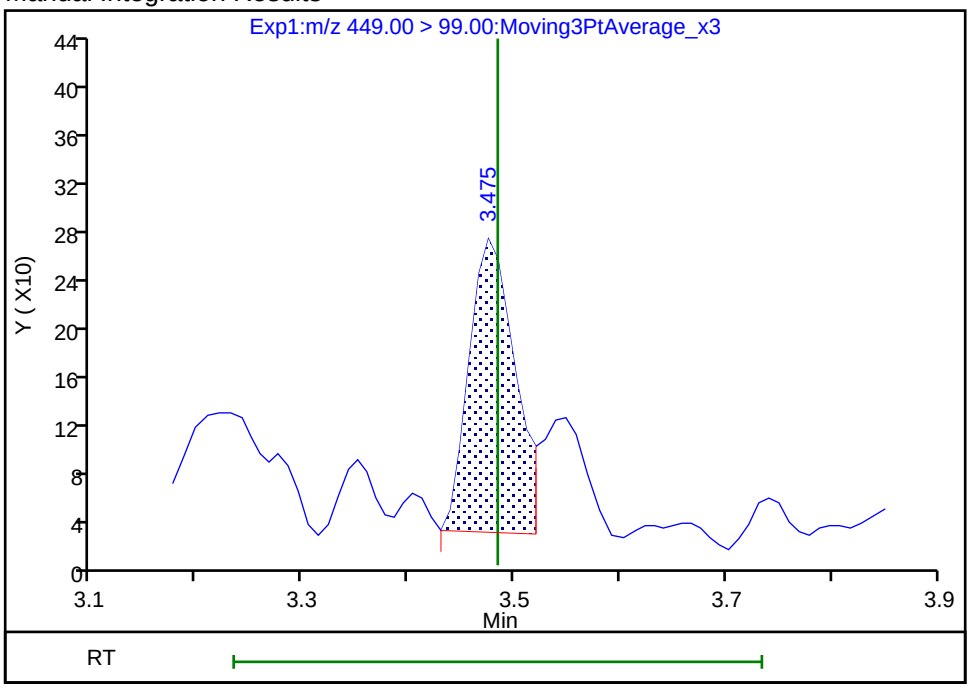
Processing Integration Results

RT: 3.48
Area: 1008
Amount: 0.008490
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 729
Amount: 0.008490
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 15:09:57
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

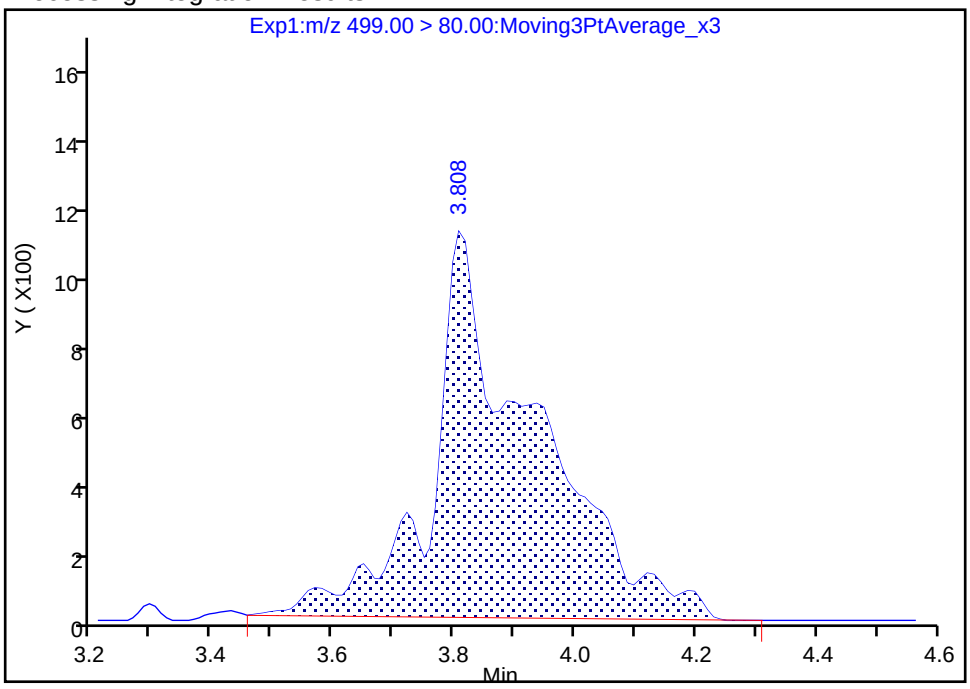
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL014.d				
Injection Date:	22-Dec-2020 13:37:53	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

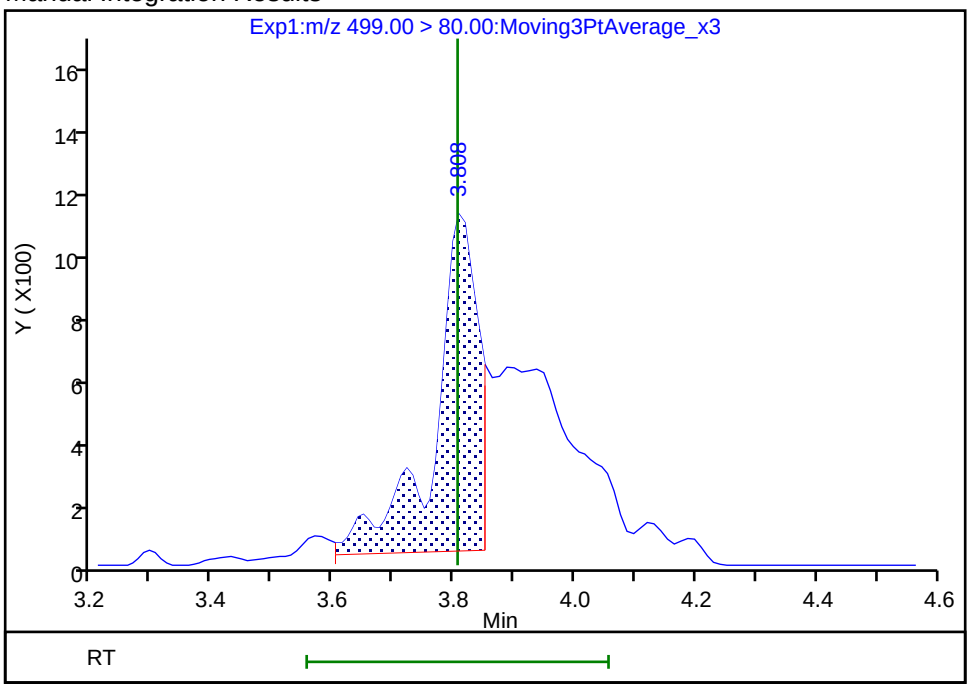
Processing Integration Results

RT: 3.81
Area: 12829
Amount: 0.024980
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 5152
Amount: 0.010032
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 15:11:03
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

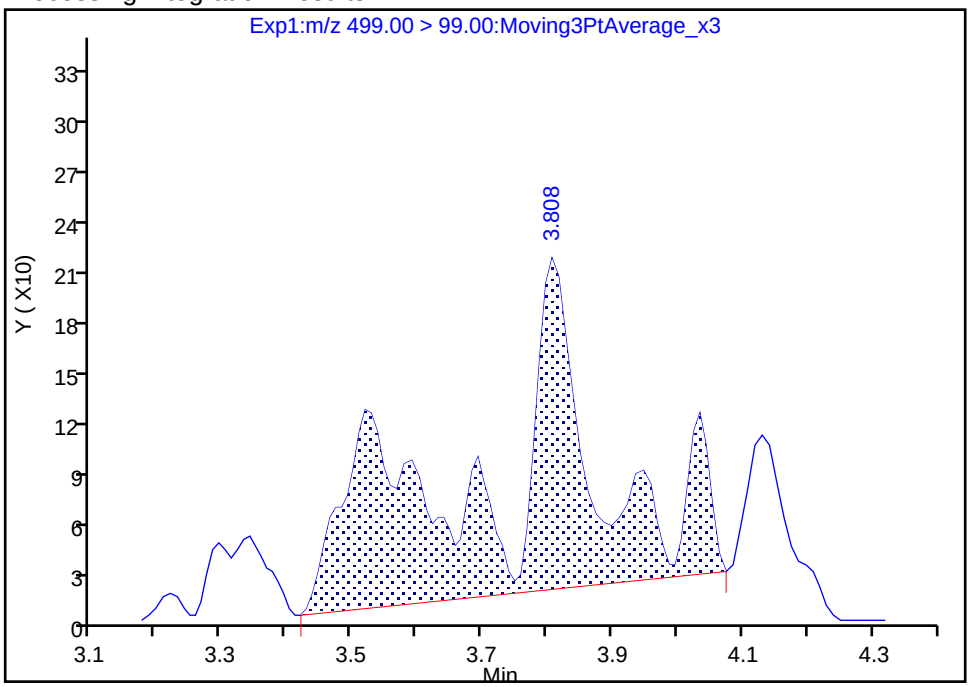
Data File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL014.d
Injection Date: 22-Dec-2020 13:37:53 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

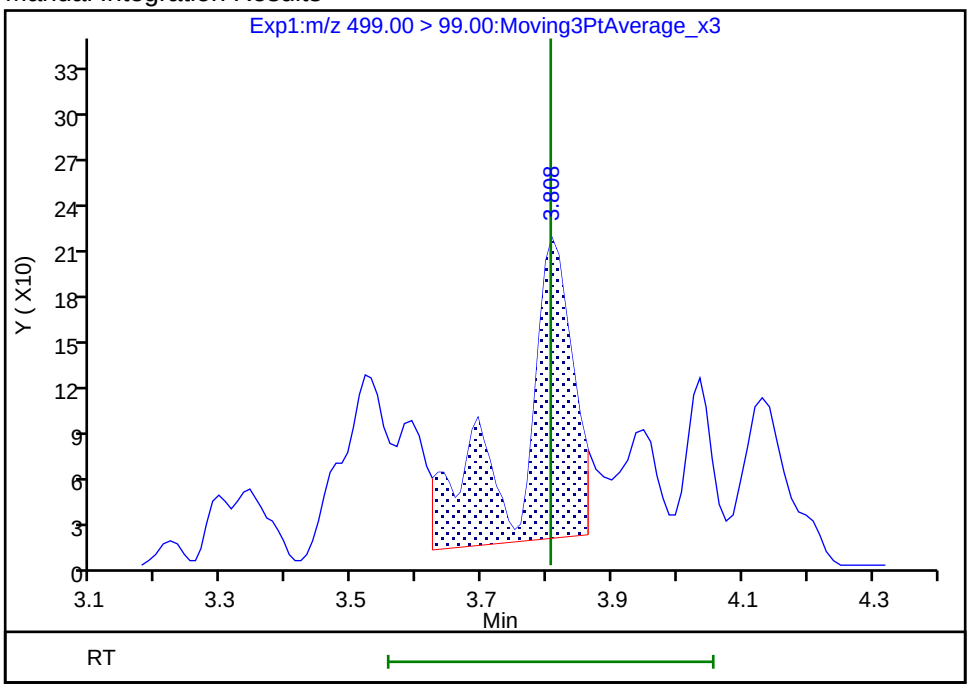
Processing Integration Results

RT: 3.81
Area: 2463
Amount: 0.024980
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 1104
Amount: 0.010032
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 15:11:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

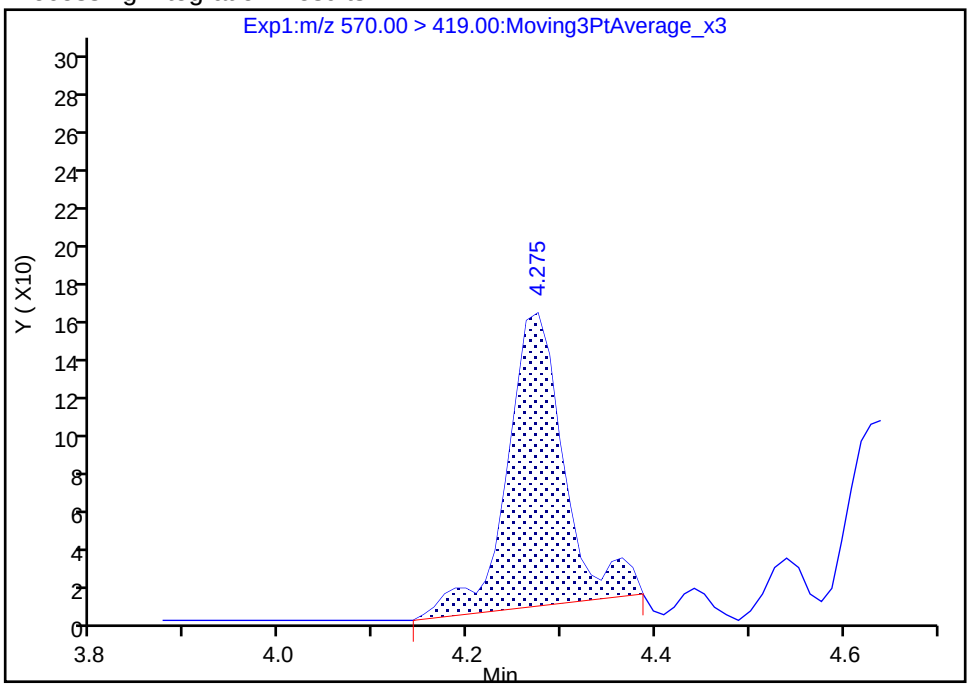
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL014.d				
Injection Date:	22-Dec-2020 13:37:53	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

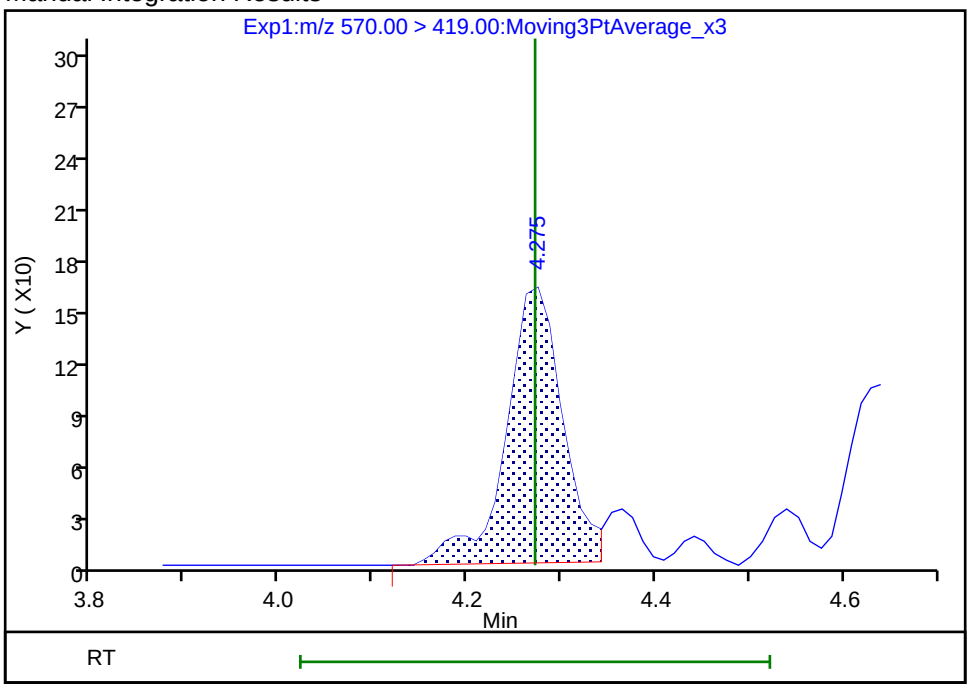
Processing Integration Results

RT: 4.27
Area: 658
Amount: 0.017491
Amount Units: ng/ml



Manual Integration Results

RT: 4.27
Area: 674
Amount: 0.017916
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 15:14:02
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

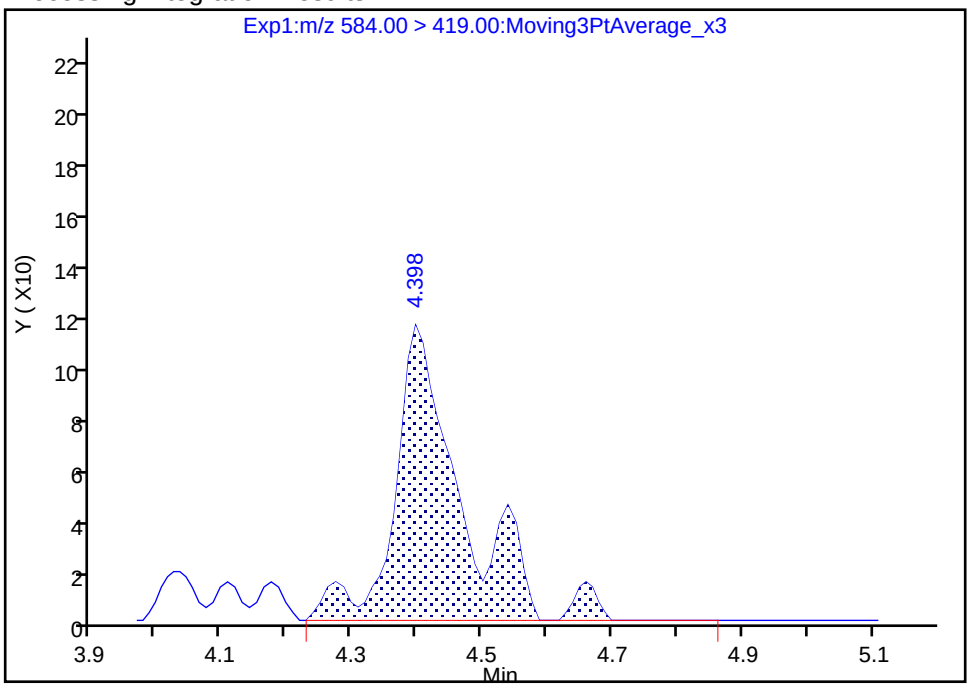
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL014.d				
Injection Date:	22-Dec-2020 13:37:53	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

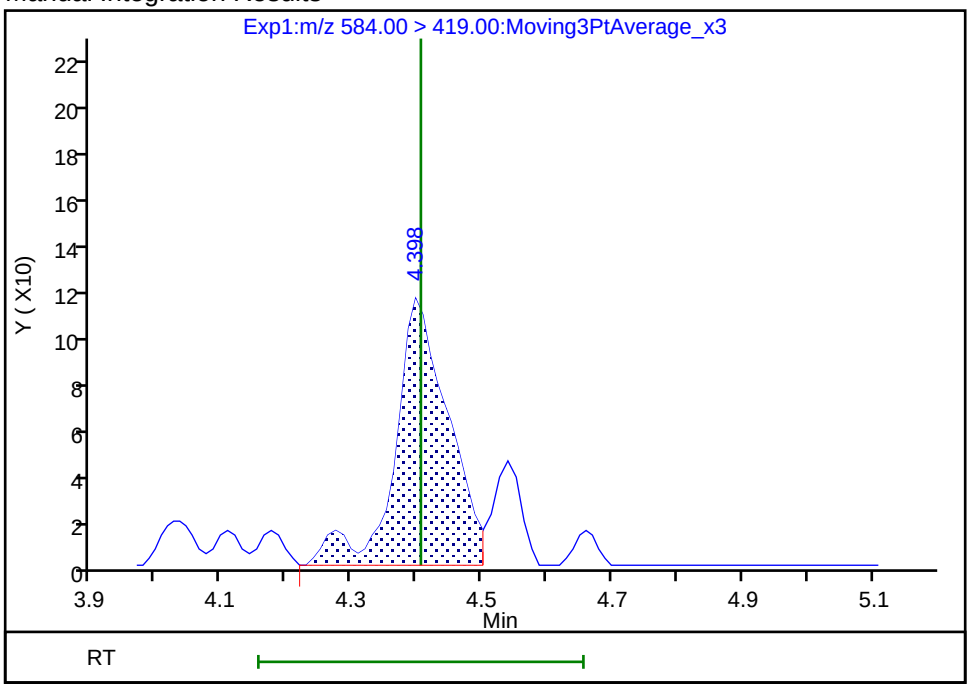
Processing Integration Results

RT: 4.40
Area: 825
Amount: 0.021940
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 655
Amount: 0.017419
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 15:14:46

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

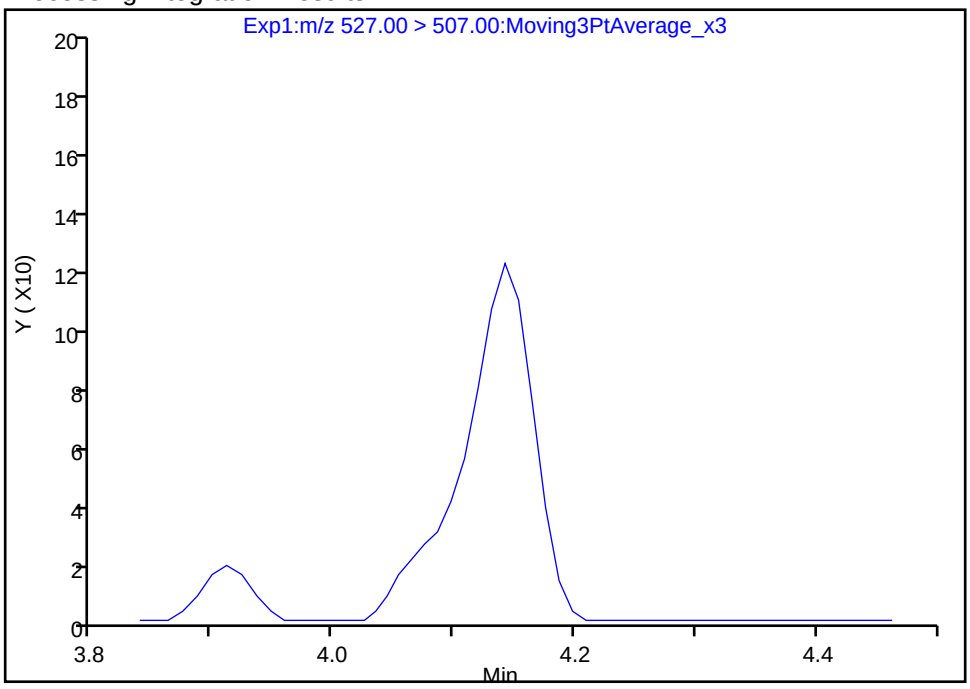
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL014.d				
Injection Date:	22-Dec-2020 13:37:53	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

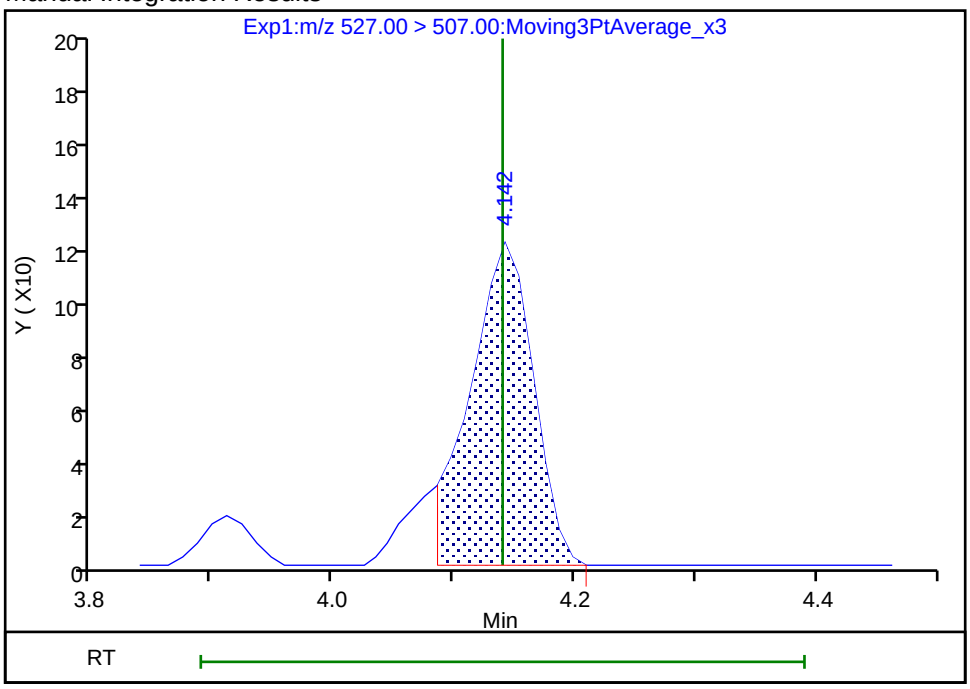
Not Detected
Expected RT: 4.14

Processing Integration Results



Manual Integration Results

RT: 4.14
Area: 423
Amount: 0.007027
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 15:13:37
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

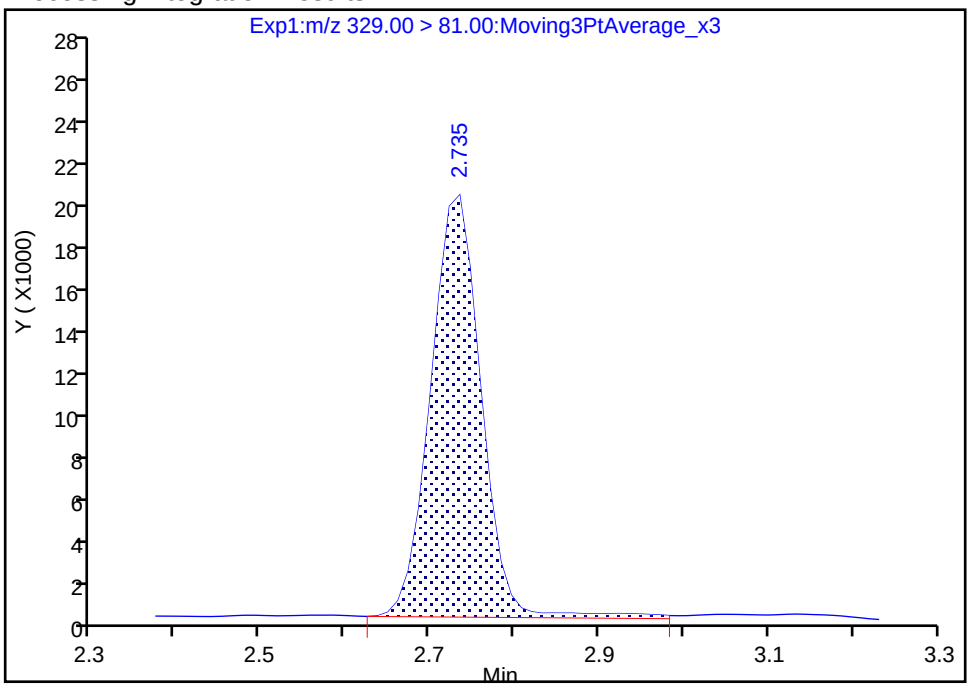
Data File:	\\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL014.d				
Injection Date:	22-Dec-2020 13:37:53	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

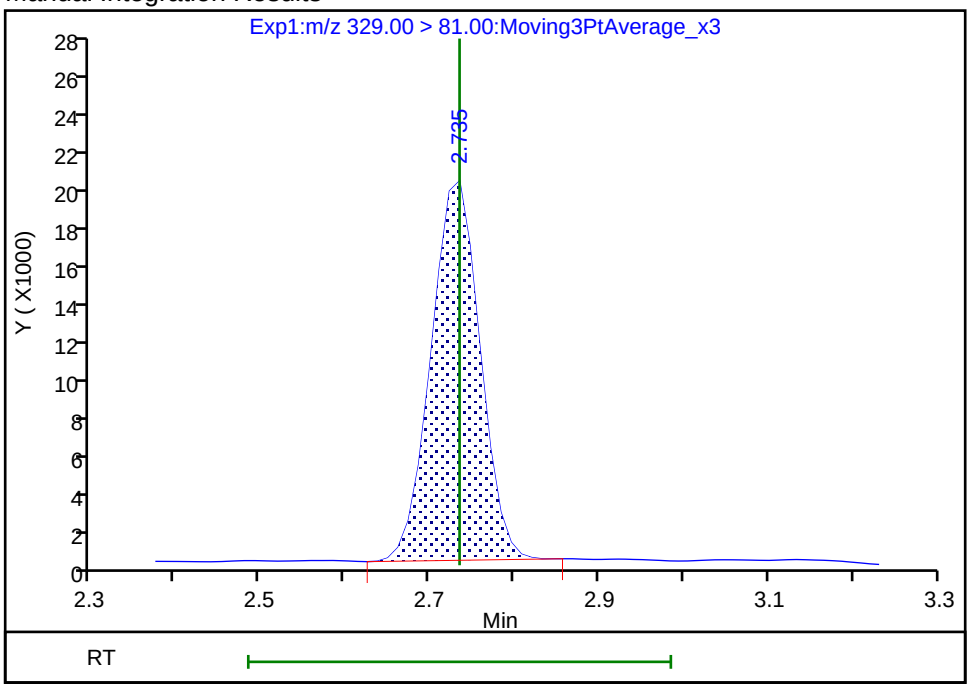
Processing Integration Results

RT: 2.74
Area: 82733
Amount: 1.107642
Amount Units: ng/ml



Manual Integration Results

RT: 2.74
Area: 79652
Amount: 1.066393
Amount Units: ng/ml



Reviewer: deannd, 22-Dec-2020 15:12:28

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 200-164111/2-A

Matrix: Water Lab File ID: PA210219B03.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: 3535 Date Extracted: 02/18/2021 15:01

Sample wt/vol: 250(mL) Date Analyzed: 02/19/2021 16:05

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 164133 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	30.71		5.00	1.13
2706-90-3	Perfluoropentanoic acid (PFPeA)	31.32		2.00	1.08
307-24-4	Perfluorohexanoic acid (PFHxA)	32.08		2.00	0.83
375-85-9	Perfluoroheptanoic acid (PFHpA)	33.89		2.00	0.46
335-67-1	Perfluorooctanoic acid (PFOA)	33.43		2.00	0.98
375-95-1	Perfluorononanoic acid (PFNA)	34.52		2.00	0.58
335-76-2	Perfluorodecanoic acid (PFDA)	34.25		2.00	0.46
2058-94-8	Perfluoroundecanoic acid (PFUnA)	39.11		2.00	0.73
307-55-1	Perfluorododecanoic acid (PFDoA)	35.99		2.00	0.46
72629-94-8	Perfluorotridecanoic acid (PFTriA)	39.25		2.00	0.43
376-06-7	Perfluorotetradecanoic acid (PFTeA)	40.69		2.00	0.59
375-73-5	Perfluorobutanesulfonic acid (PFBS)	30.67		2.00	0.63
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	30.66		2.00	0.67
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	32.77		2.00	0.39
335-77-3	Perfluorodecanesulfonic acid (PFDS)	31.63		2.00	0.48
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	31.07		2.00	0.87
754-91-6	Perfluorooctanesulfonamide (FOSA)	28.23		2.00	0.57
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	35.04		5.00	0.79
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	33.32		5.00	0.93
27619-97-2	6:2 FTS	30.15		5.00	0.72
39108-34-4	8:2 FTS	27.66		2.00	0.66

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 200-164111/2-A

Matrix: Water Lab File ID: PA210219B03.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: 3535 Date Extracted: 02/18/2021 15:01

Sample wt/vol: 250(mL) Date Analyzed: 02/19/2021 16:05

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 164133 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01892	13C4 PFHpA	110		50-150
STL00990	13C4 PFOA	113		50-150
STL00995	13C5 PFNA	110		50-150
STL00992	13C4 PFBA	116		25-150
STL00993	13C2 PFHxA	114		50-150
STL00996	13C2 PFDA	106		50-150
STL00997	13C2 PFUnA	92		50-150
STL00994	18O2 PFHxS	112		50-150
STL00998	13C2 PFDoA	84		50-150
STL00991	13C4 PFOS	111		50-150
STL01056	13C8 FOSA	87		25-150
STL01893	13C5 PFPeA	112		25-150
STL02116	13C2 PFTeDA	87		50-150
STL02118	d3-NMeFOSAA	90		50-150
STL02117	d5-NEtFOSAA	91		50-150
STL02279	M2-6:2 FTS	110		25-150
STL02337	13C3 PFBS	105		50-150
STL02280	M2-8:2 FTS	110		25-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B03.d
Lims ID: LCS 200-164111/2-A
Client ID:
Sample Type: LCS
Inject. Date: 19-Feb-2021 16:05:19 ALS Bottle#: 18 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCS 200-164111/2-A
Misc. Info.: 200-0044899-003 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 23-Feb-2021 11:35:09 Calib Date: 22-Dec-2020 13:29:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1628

First Level Reviewer: khanphomeea Date: 22-Feb-2021 10:54:12
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.071	2.082	-0.011	0.595	1492452	1.45		116	12893	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.080	2.082	-0.002	1.004	918504	0.7677		76.8	196	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.398	2.400	-0.002	0.688	1042332	1.40		112	3109	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.398	2.400	-0.002	1.000	722903	0.7829		78.3	34.4	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.411	2.426	-0.015	0.692	1203085	1.22		105	214933	M
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.424	2.426	-0.002	1.005	897687	0.7667	Target=2.21	86.7	1514	
298.90 > 99.00	2.424	2.426	-0.002	1.005	408054		2.20(1.11-3.32)		280	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.720	2.722	-0.002	0.781	103909	1.27		109	129	M
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.720	2.722	-0.002	1.000	128073	0.7847		84.0	1367	
D 7 13C2 PFHxA										
315.00 > 270.00	2.756	2.758	-0.002	0.791	1116576	1.43		114	3590	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.756	2.758	-0.002	1.000	782690	0.8021	Target=12.83	80.2	221	M
313.00 > 119.00	2.756	2.758	-0.002	1.000	64448		12.14(6.42-19.25)		124	M
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.768	2.758	0.010	0.887	822551	0.7654	Target=3.35	81.6	1937	
349.00 > 99.00	2.768	2.758	0.010	0.887	234595		3.51(1.67-5.02)		358	
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.866	2.868	-0.002	1.000	131686	0.9552		95.5	27.6	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.866	2.868	-0.002	0.823	124388	0.9031		72.2	1208	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.122	3.122	0.0	1.000	739648	0.7664	Target=4.15	84.2	1538	M
399.00 > 99.00	3.122	3.122	0.0	1.000	167682		4.41(2.08-6.23)		193	
D 11 18O2 PFHxS										
403.00 > 84.00	3.122	3.122	0.0	0.896	968400	1.32		112	1944	
D 9 13C4 PFHpA										
367.00 > 322.00	3.132	3.122	0.010	0.899	1028853	1.37		110	2543	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.132	3.122	0.010	1.000	761583	0.8472	Target=3.66	84.7	265	
363.00 > 169.00	3.132	3.122	0.010	1.000	215715		3.53(1.83-5.49)		409	
77 DONA										M
377.00 > 251.00	3.165	3.164	0.001	0.834	1463861	0.7847	Target=2.43	83.3	1681	M
377.00 > 85.00	3.165	3.164	0.001	0.834	589658		2.48(1.22-3.65)		818	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.474	3.465	0.009	0.916	616149	0.8192	Target=5.95	86.0	1989	
449.00 > 99.00	3.474	3.465	0.009	0.916	96206		6.40(2.98-8.93)		301	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.474	3.474	0.0	0.997	119109	1.31		110	415	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.474	3.474	0.0	1.000	84109	0.7539		79.5	791	
D 14 13C4 PFOA										
417.00 > 372.00	3.483	3.483	0.0	1.000	1071682	1.41		113	4931	
* 62 13C2 PFOA										
415.00 > 370.00	3.483	3.483	0.0		960877	1.25			902	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.483	3.483	0.0	1.000	776711	0.8358	Target=2.58	83.6	242	
413.00 > 169.00	3.483	3.483	0.0	1.000	308194		2.52(1.29-3.87)		702	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.804	3.794	0.010	1.003	497672	0.7767	Target=5.65	83.7	630	M
499.00 > 99.00	3.795	3.794	0.001	1.000	85446		5.82(2.82-8.47)		254	M
D 18 13C4 PFOS										
503.00 > 80.00	3.795	3.794	0.001	1.089	665733	1.33		111	2981	
D 19 13C5 PFNA										
468.00 > 423.00	3.814	3.814	0.0	1.095	925000	1.38		110	3757	
20 Perfluorononanoic acid										
463.00 > 419.00	3.814	3.814	0.0	1.000	706791	0.8629	Target=7.44	86.3	223	
463.00 > 169.00	3.814	3.814	0.0	1.000	100886		7.01(3.72-11.16)		1335	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.955	3.955	0.0	1.042	494888	0.6923		74.3	2138	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.082	4.071	0.011	1.076	381256	0.7976	Target=2.54	83.1	3587	
549.00 > 99.00	4.082	4.071	0.011	1.076	129275		2.95(1.27-3.81)		375	
D 23 13C2 PFDA										
515.00 > 470.00	4.115	4.104	0.011	1.181	847780	1.32		106	4563	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.115	4.104	0.011	1.000	598415	0.8562	Target=9.29	85.6	418	
513.00 > 169.00	4.115	4.104	0.011	1.000	73375		8.16(4.64-13.93)		519	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.115	4.115	0.0	1.181	124339	1.32		110	524	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.115	4.115	0.0	1.000	48835	0.6915		72.2	808	
D 21 13C8 FOSA										
506.00 > 78.00	4.215	4.215	0.0	1.210	1027861	1.09		87.2	5027	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.215	4.215	0.0	1.000	581573	0.7057		70.6	1595	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.257	4.246	0.011	1.222	52169	1.12		89.7	214	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.257	4.246	0.011	1.000	32407	0.8760		87.6	257	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.347	4.336	0.011	1.146	301361	0.7908	Target=2.80	82.0	1402	
599.00 > 99.00	4.347	4.336	0.011	1.146	104511		2.88(1.40-4.19)		395	
D 30 13C2 PFUnA										
565.00 > 520.00	4.369	4.358	0.011	1.254	605398	1.15		91.9	3891	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.369	4.358	0.011	1.000	482903	0.9777	Target=8.12	97.8	380	
563.00 > 169.00	4.369	4.358	0.011	1.000	58726		8.22(4.06-12.18)		907	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.380	4.369	0.011	1.257	51194	1.14		91.0	553	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.391	4.380	0.011	1.003	31578	0.8329		83.3	394	M
66 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.467	4.456	0.011	1.177	425264	0.5733		60.9	2561	
D 36 13C2 PFDoA										
615.00 > 570.00	4.591	4.591	0.0	1.318	585262	1.05		84.2	2153	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.591	4.591	0.0	1.000	463365	0.8998	Target=6.91	90.0	167	
613.00 > 169.00	4.601	4.591	0.010	1.002	75934		6.10(3.45-10.36)		1104	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.612	4.601	0.011	1.121	25262	0.6949		72.1	628	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.765	4.748	0.017	1.256	111381	0.7944	Target=0.51	82.1	553	
699.00 > 99.00	4.765	4.748	0.017	1.256	214212		0.52(0.26-0.77)		275	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.801	4.784	0.017	1.046	410122	0.9813	Target=4.39	98.1	207	
663.00 > 169.00	4.801	4.784	0.017	1.046	105761		3.88(2.20-6.59)		1050	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.985	4.966	0.019	1.431	448420	1.09		87.2	3308	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.985	4.966	0.019	1.000	67679	1.02	Target=1.06	102	1214	
713.00 > 219.00	4.976	4.966	0.010	0.998	61466		1.10(0.53-1.59)		1353	

Report Date: 23-Feb-2021 11:35:13 Chrom Revision: 2.3 05-Feb-2021 00:13:28
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B03.d
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.315	5.293	0.022	1.526	431900	0.9826		78.6	2584	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.315	5.293	0.022	1.000	311604	0.9532	Target=3.84	95.3	148	
813.00 > 169.00	5.315	5.293	0.022	1.000	83260		3.74(1.92-5.76)		1100	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.619	5.592	0.027	1.057	267379	0.8601	Target=3.92	86.0	337	
913.00 > 169.00	5.610	5.592	0.018	1.055	74456		3.59(1.96-5.88)		1293	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Report Date: 23-Feb-2021 11:35:13 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B03.d

Injection Date: 19-Feb-2021 16:05:19 Instrument ID: LC812

Lims ID: LCS 200-164111/2-A

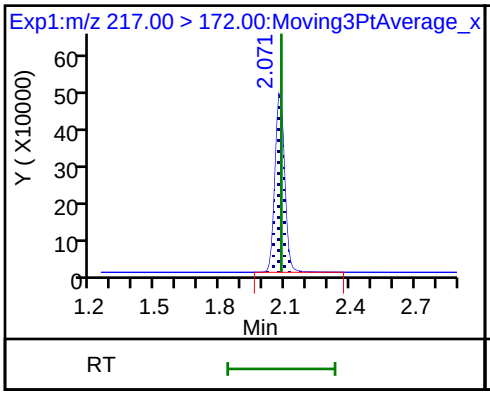
Client ID:

Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 3

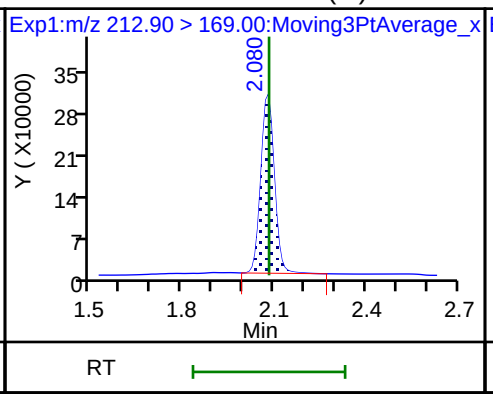
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

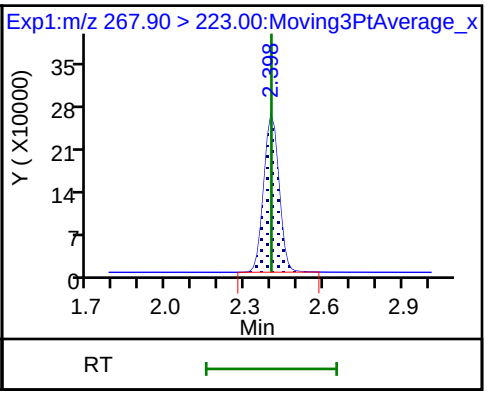
D 1 13C4 PFBA



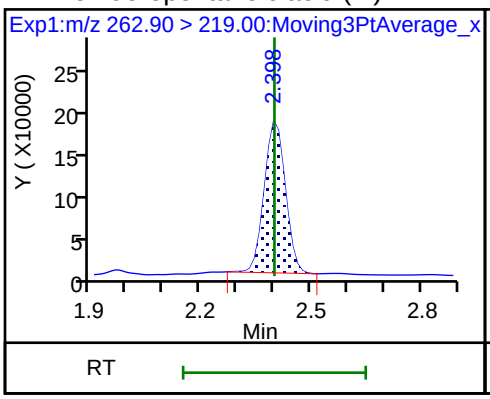
2 Perfluorobutanoic acid (M)



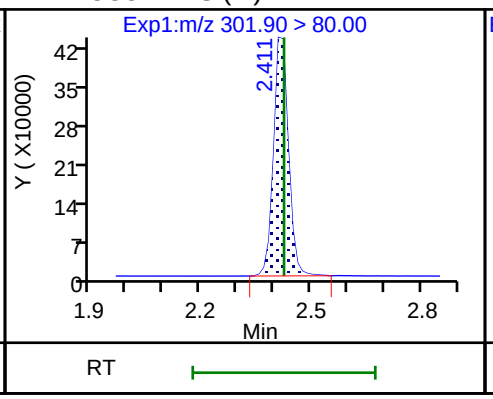
D 3 13C5 PFPeA



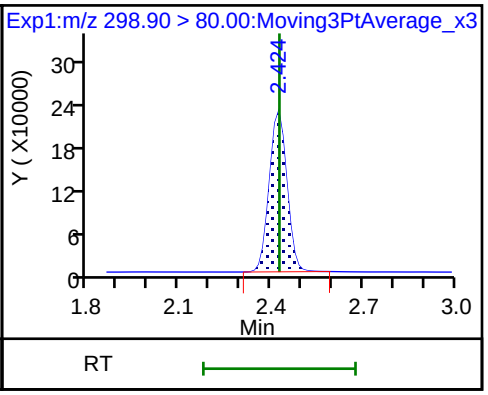
4 Perfluoropentanoic acid (M)



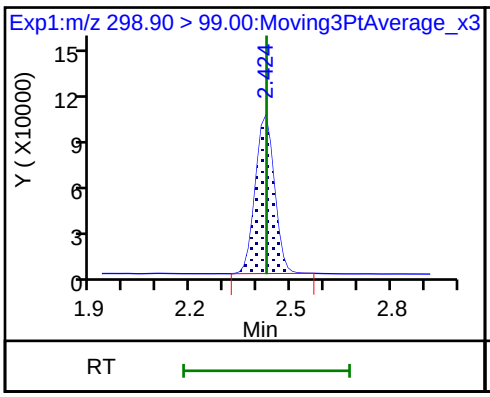
D 47 13C3 PFBS (M)



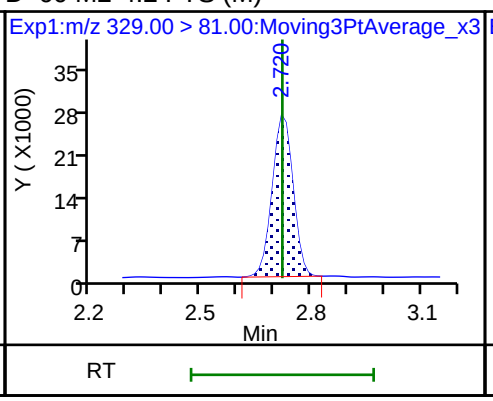
5 Perfluorobutanesulfonic acid



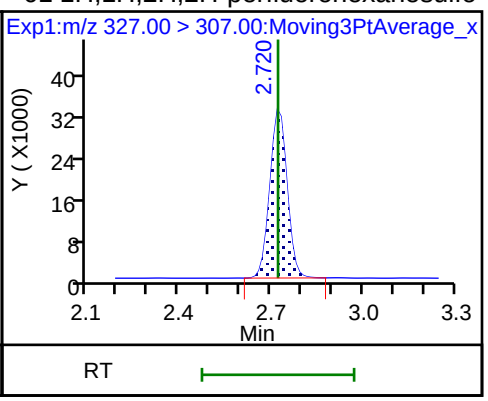
5 Perfluorobutanesulfonic acid



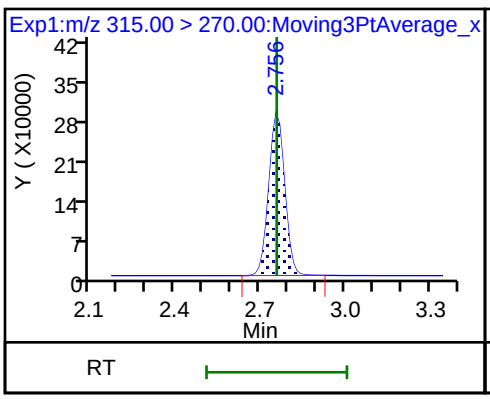
D 60 M2-4:2 FTS (M)



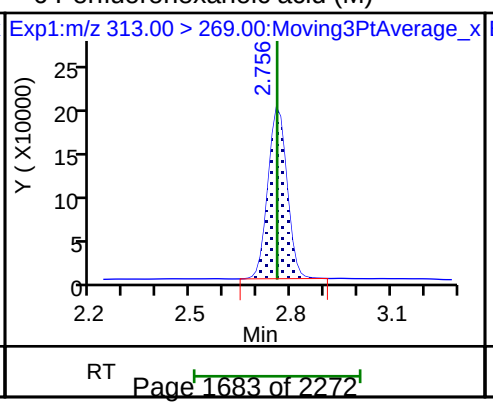
61 1H,1H,2H,2H-perfluorohexanesulfo



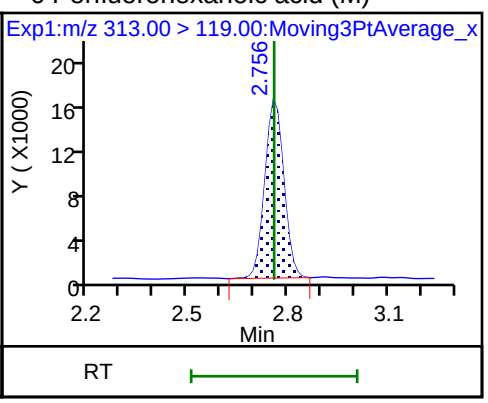
D 7 13C2 PFHxA



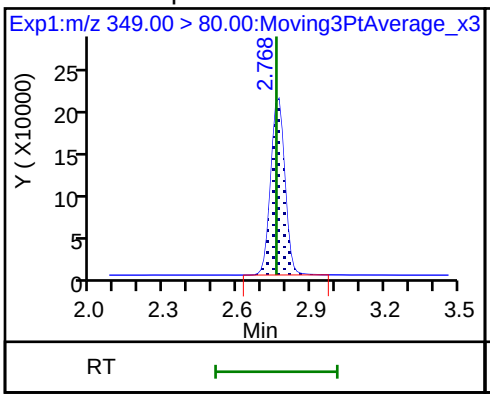
6 Perfluorohexanoic acid (M)



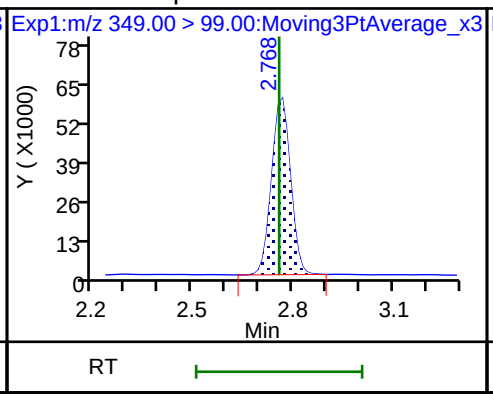
6 Perfluorohexanoic acid (M)



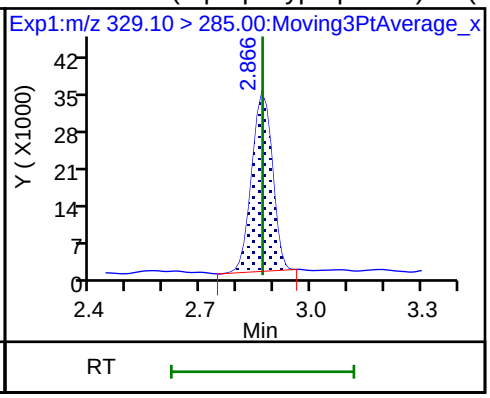
70 Perfluoropentanesulfonic acid



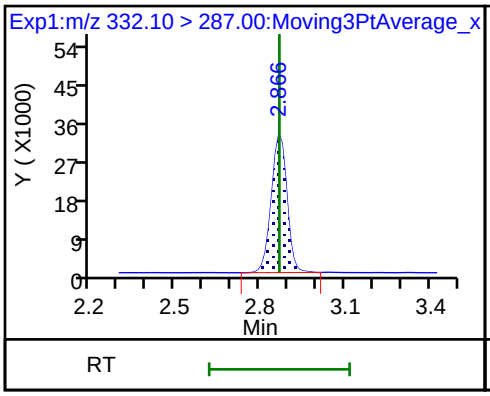
70 Perfluoropentanesulfonic acid



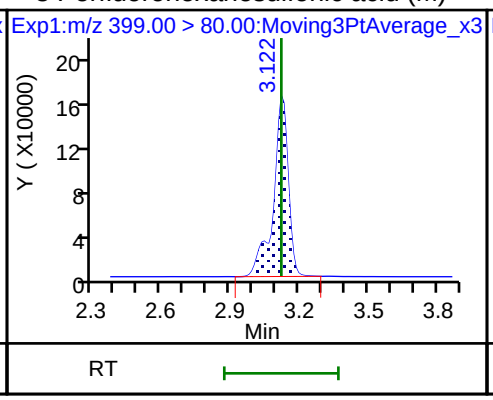
67 Perfluoro(2-propoxypropanoic) ac (M)



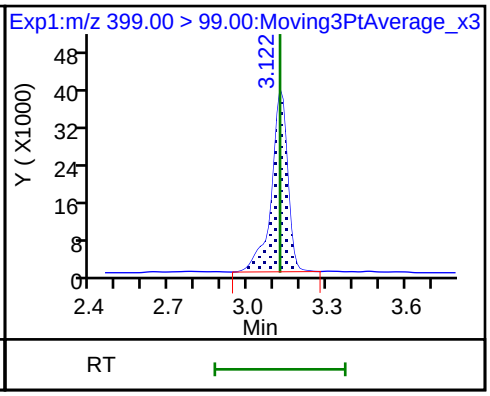
D 64 13C3 HFPO-DA



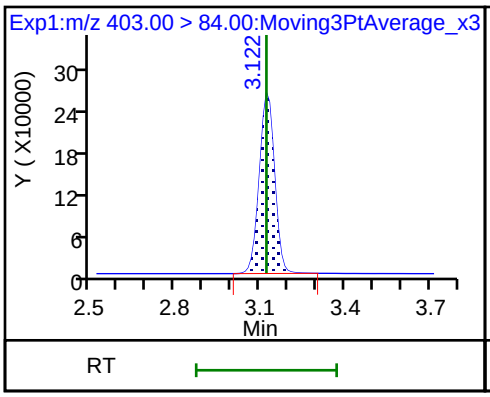
8 Perfluorohexanesulfonic acid (M)



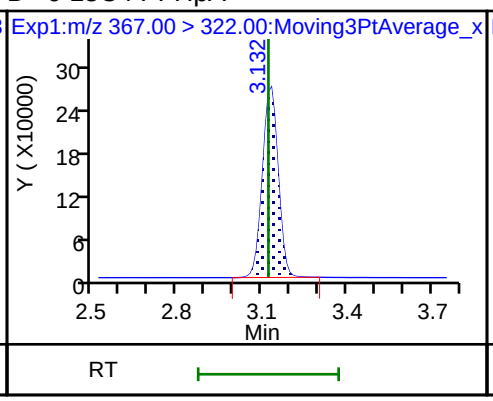
8 Perfluorohexanesulfonic acid



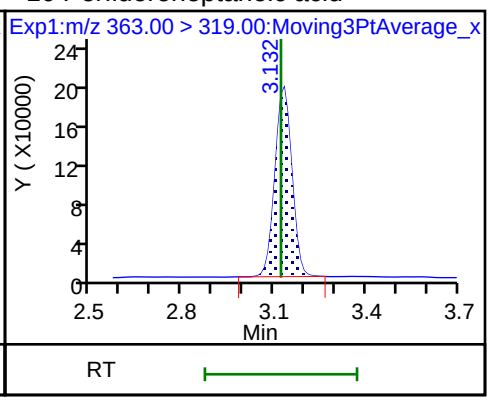
D 11 18O2 PFHxS



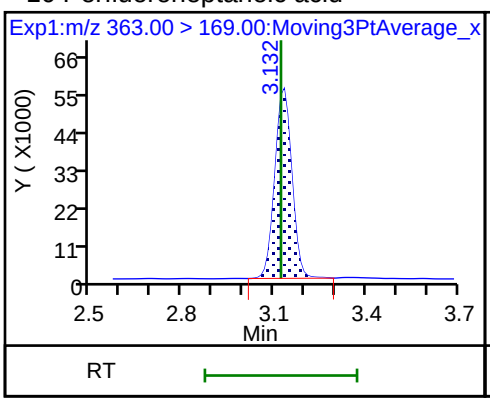
D 9 13C4 PFHpA



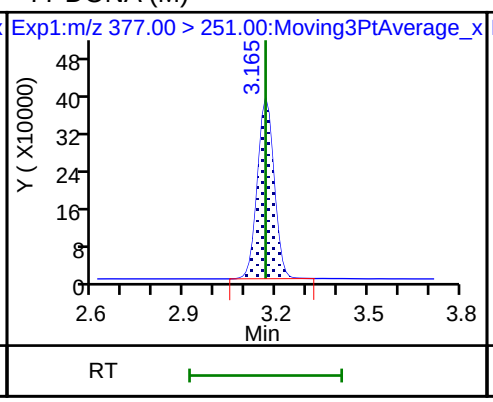
10 Perfluoroheptanoic acid



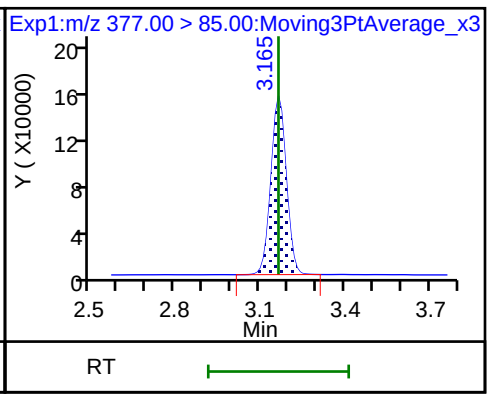
10 Perfluoroheptanoic acid



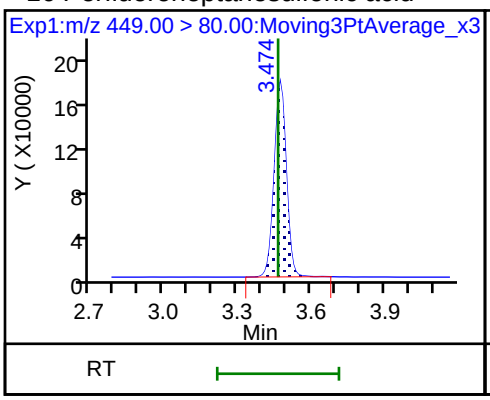
77 DONA (M)



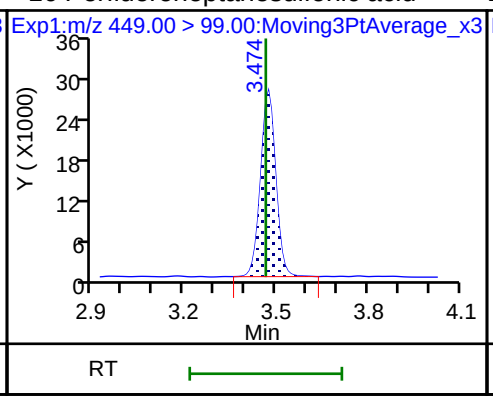
77 DONA



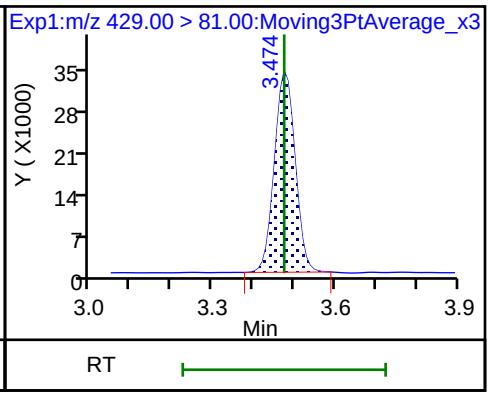
16 Perfluoroheptanesulfonic acid



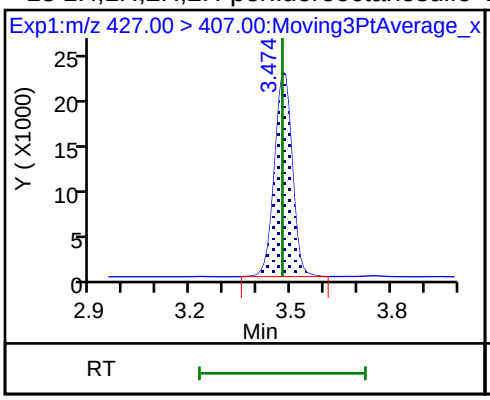
16 Perfluoroheptanesulfonic acid



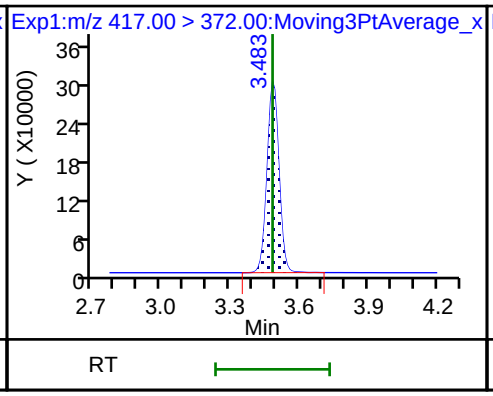
D 12 M2-6:2 FTS



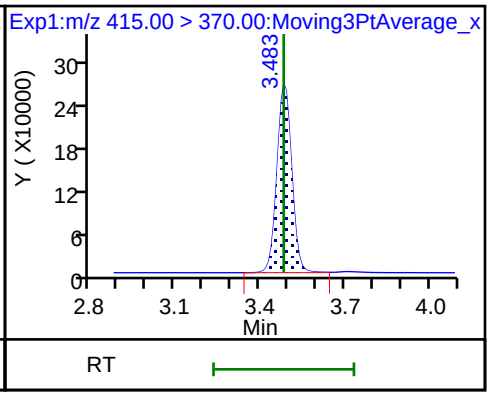
13 1H,1H,2H,2H-perfluorooctanesulfo



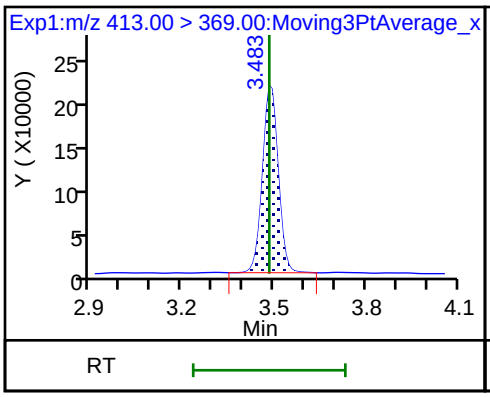
D 14 13C4 PFOA



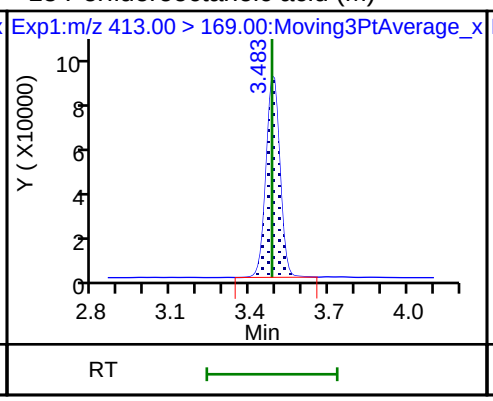
* 62 13C2 PFOA



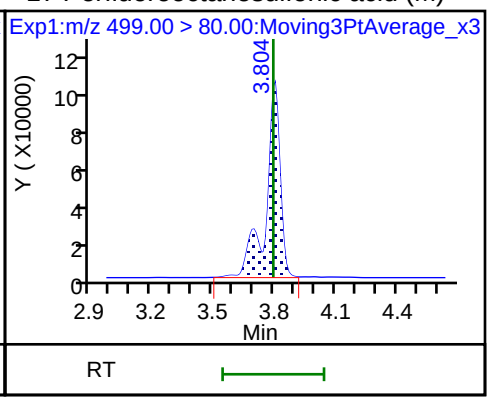
15 Perfluorooctanoic acid



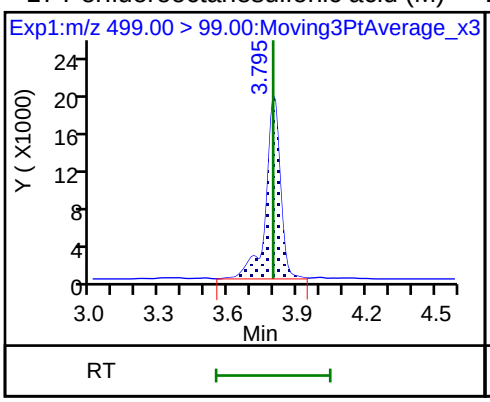
15 Perfluorooctanoic acid (M)



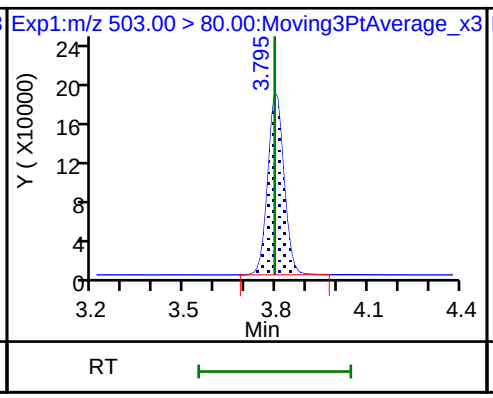
17 Perfluorooctanesulfonic acid (M)



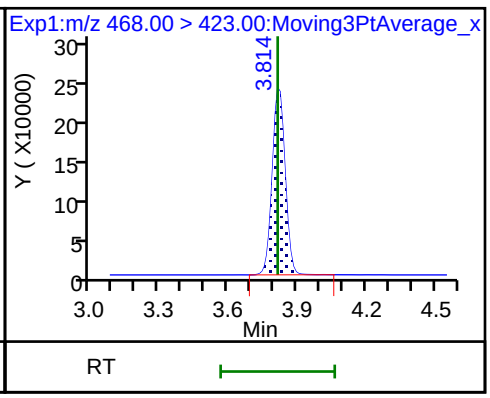
17 Perfluorooctanesulfonic acid (M)



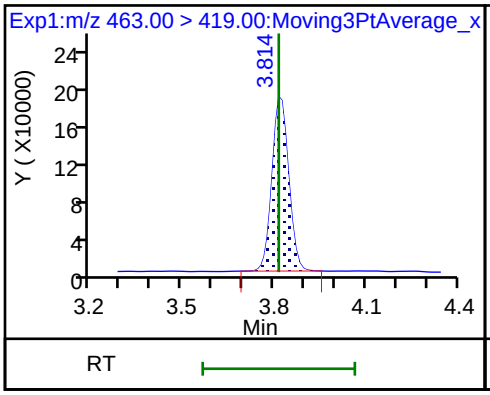
D 18 13C4 PFOS



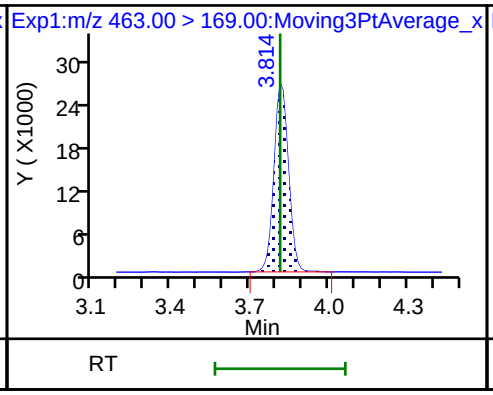
D 19 13C5 PFNA



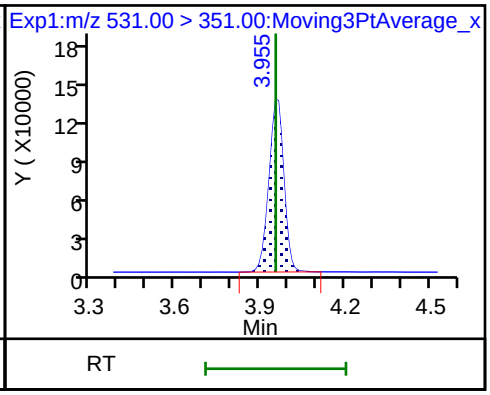
20 Perfluorononanoic acid



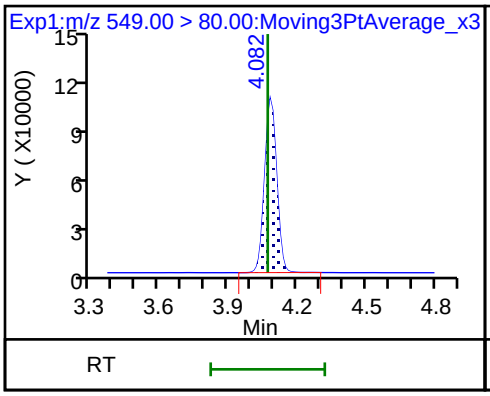
20 Perfluorononanoic acid



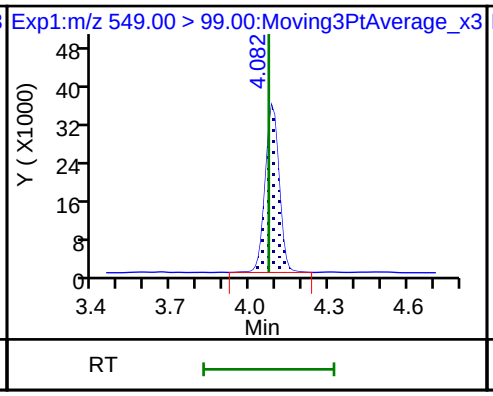
69 9-Chlorohexadecafluoro-3-oxanona



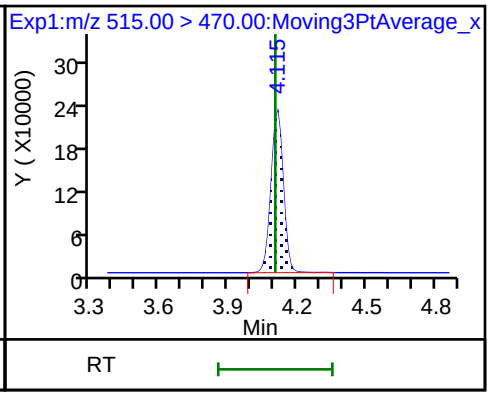
68 Perfluorononanesulfonic acid



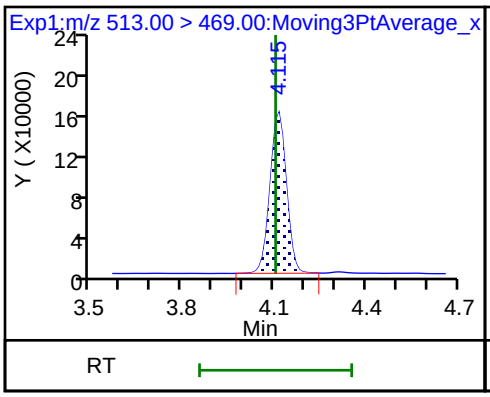
68 Perfluorononanesulfonic acid



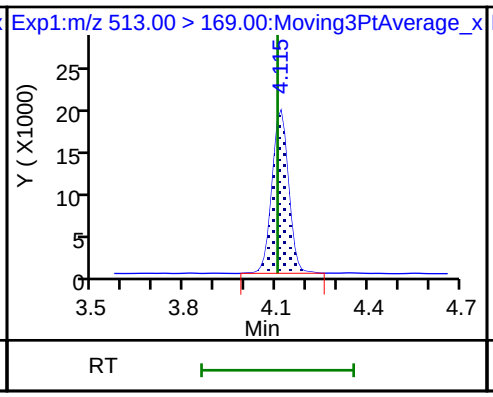
D 23 13C2 PFDA



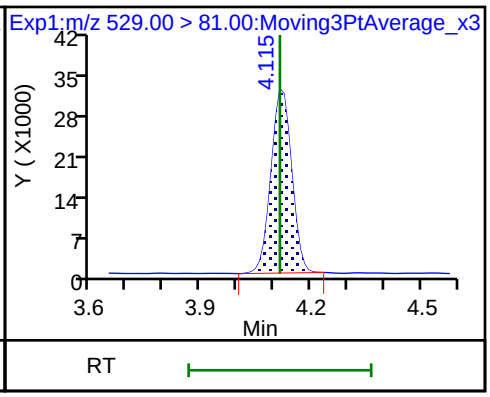
24 Perfluorodecanoic acid



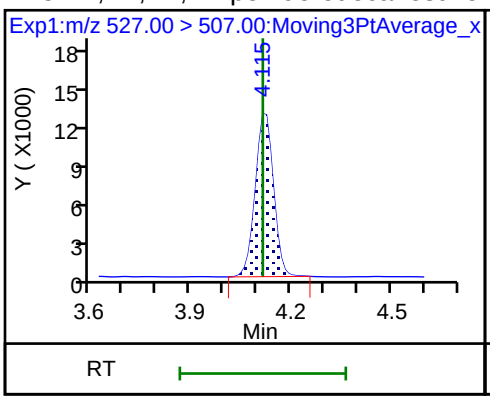
24 Perfluorodecanoic acid



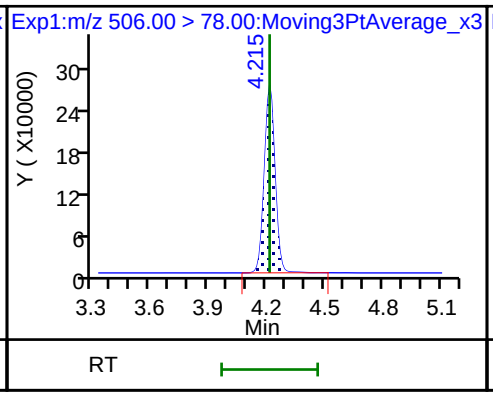
D 26 M2-8:2 FTS



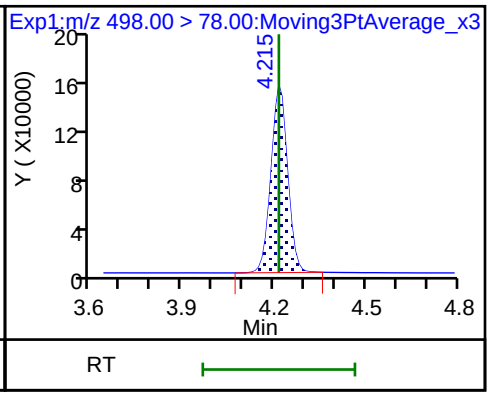
25 1H,1H,2H,2H-perfluorodecanesulfo



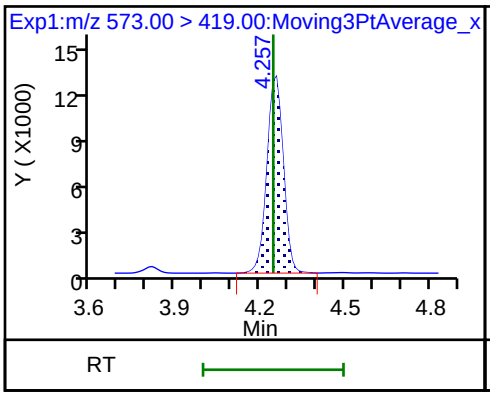
D 21 13C8 FOSA



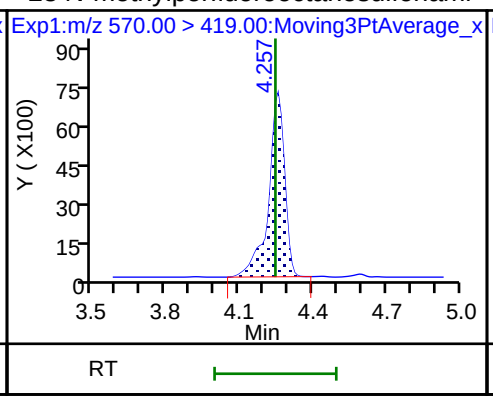
22 Perfluorooctanesulfonamide



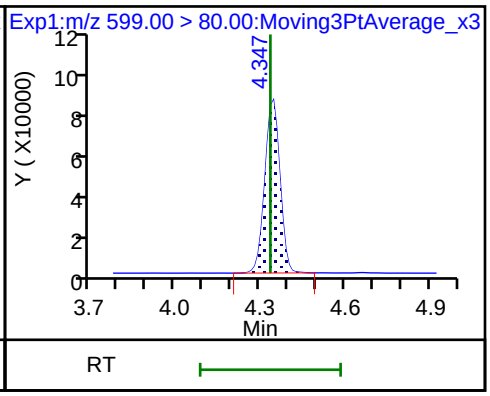
D 27 d3-NMeFOSAA



28 N-methylperfluorooctanesulfonami



29 Perfluorodecanesulfonic acid



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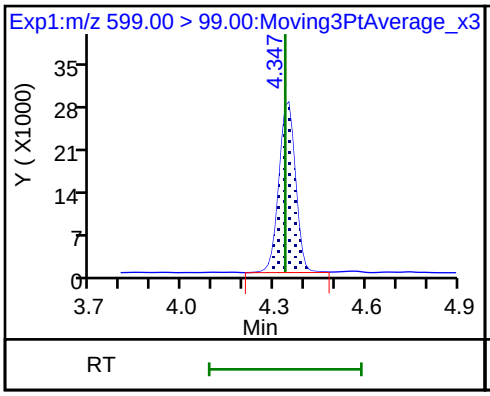
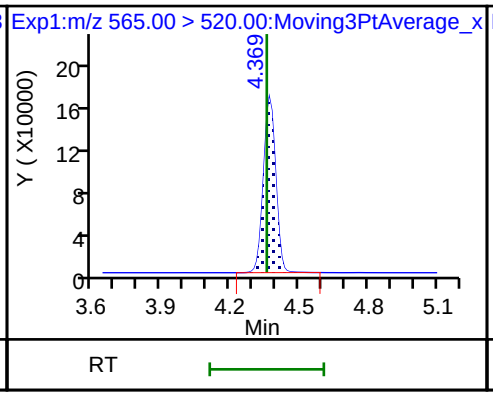
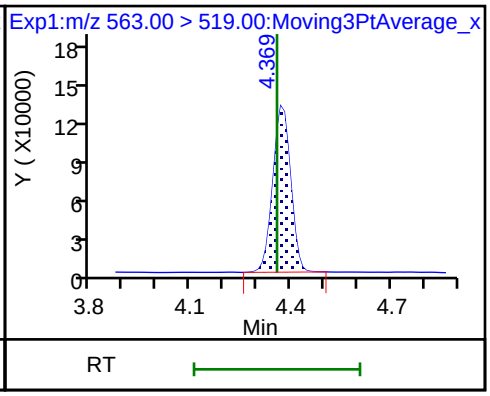


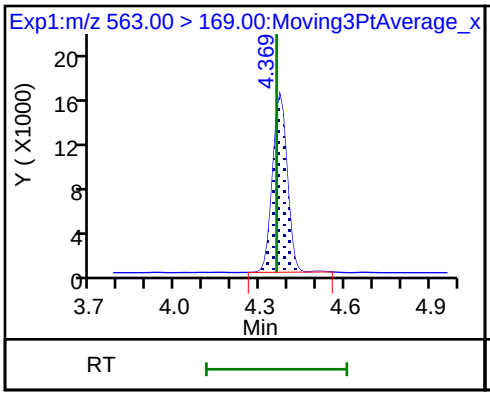
D 30 13C2 PFUnA



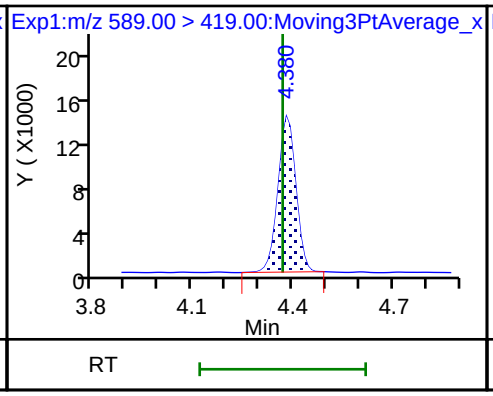
31 Perfluoroundecanoic acid



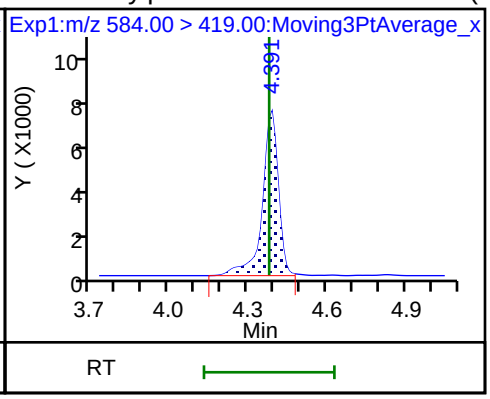
31 Perfluoroundecanoic acid



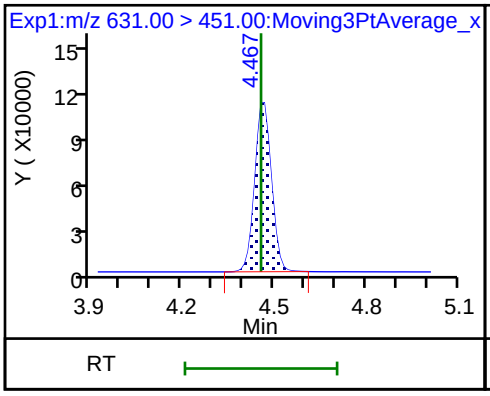
D 32 d5-NEtFOSAA



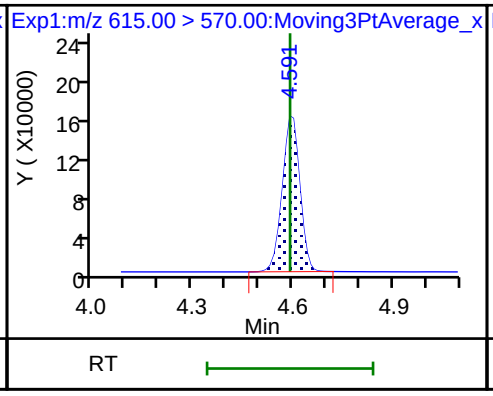
33 N-ethylperfluorooctanesulfonamid (M)



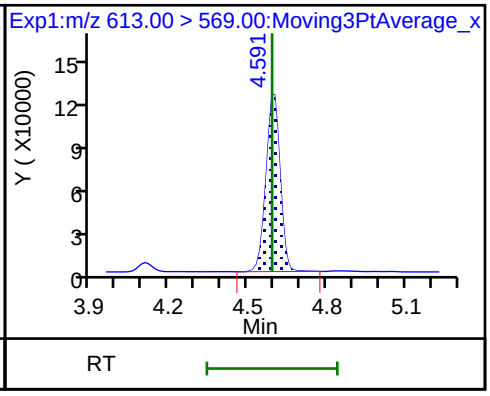
66 11-Chloroeicosafluoro-3-oxaundec



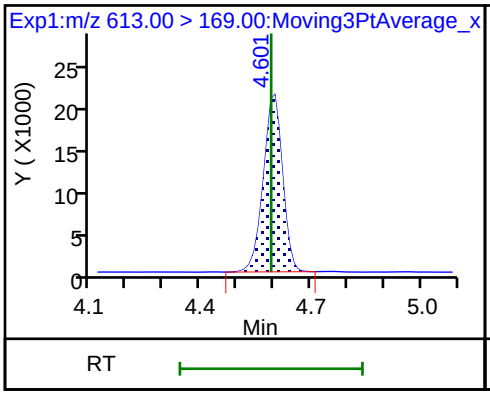
D 36 13C2 PFDoA



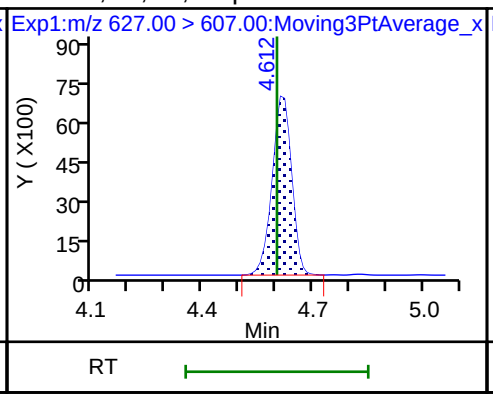
37 Perfluorododecanoic acid



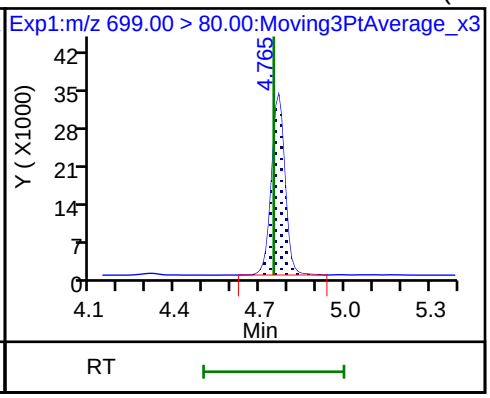
37 Perfluorododecanoic acid



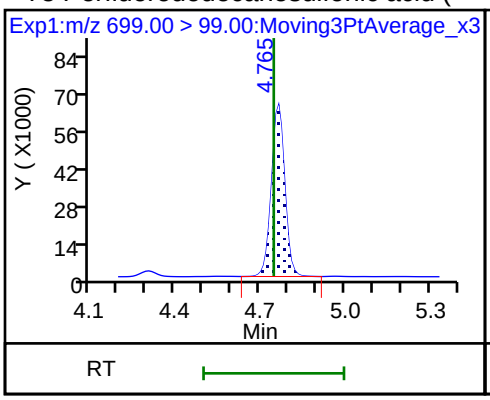
74 1H,1H,2H,2H-perfluorododecanesul



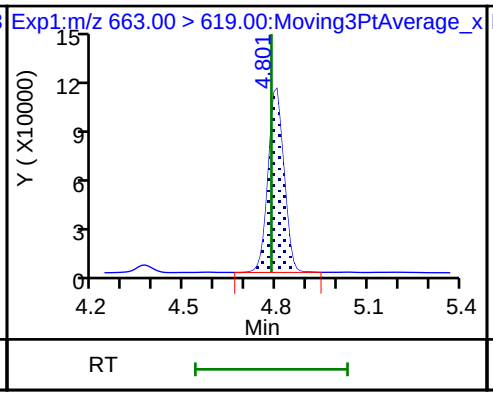
75 Perfluorododecanesulfonic acid (



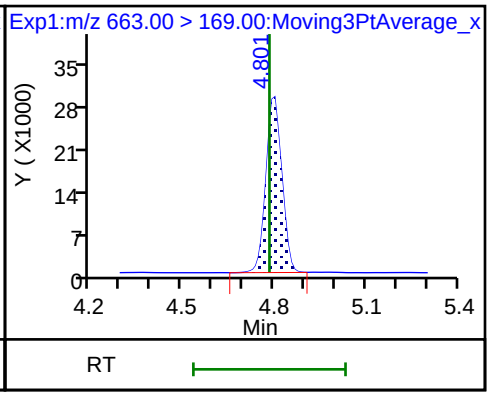
75 Perfluorododecanesulfonic acid (



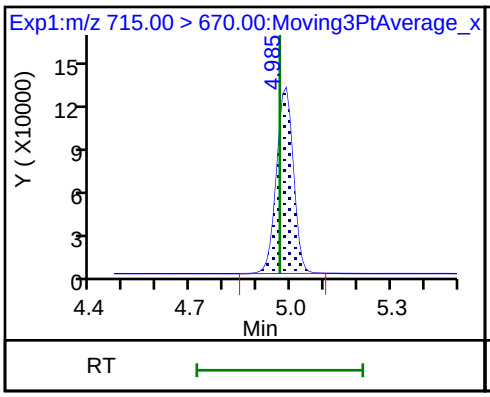
41 Perfluorotridecanoic acid



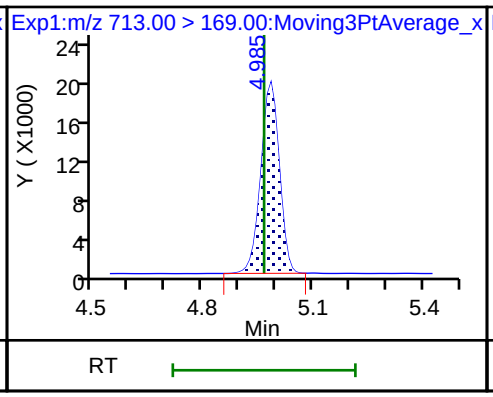
41 Perfluorotridecanoic acid



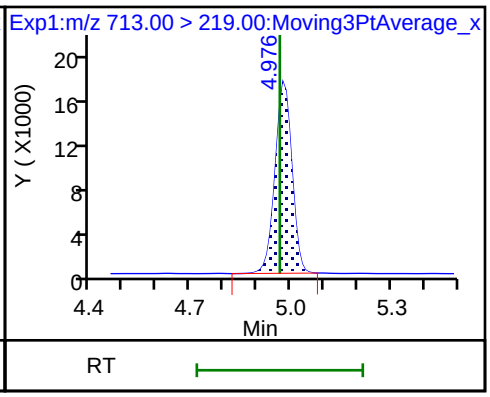
D 43 13C2 PFTeDA



42 Perfluorotetradecanoic acid



42 Perfluorotetradecanoic acid



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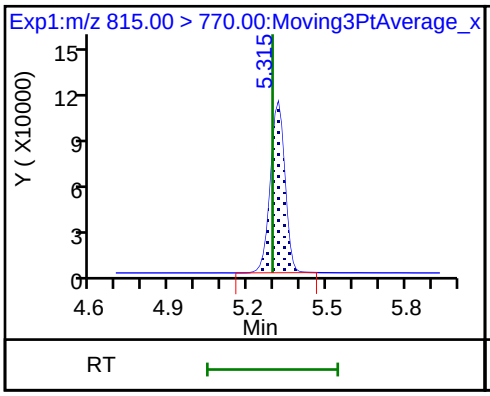
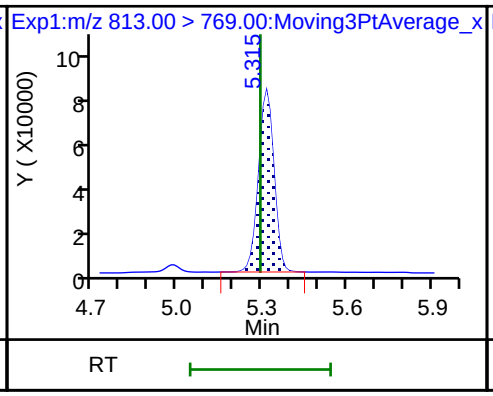
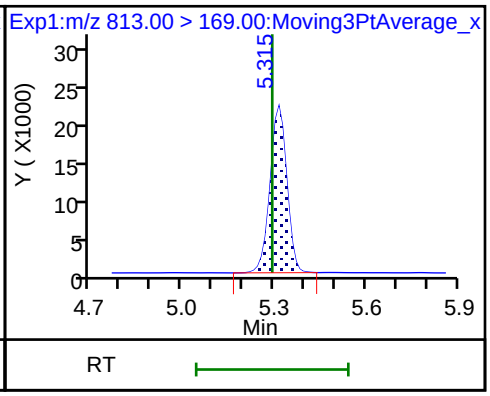


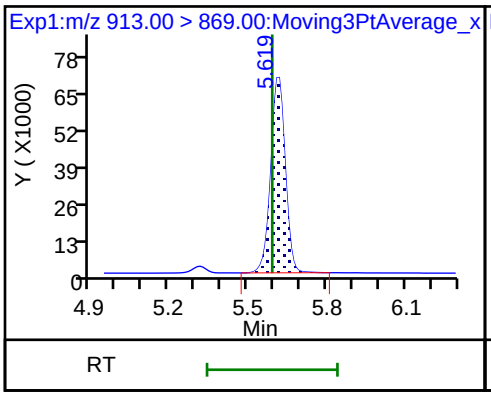
45 Perfluorohexadecanoic acid



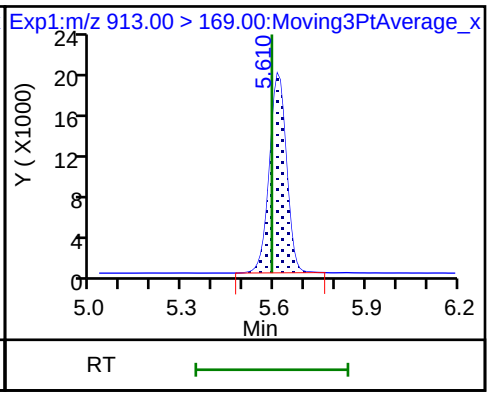
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

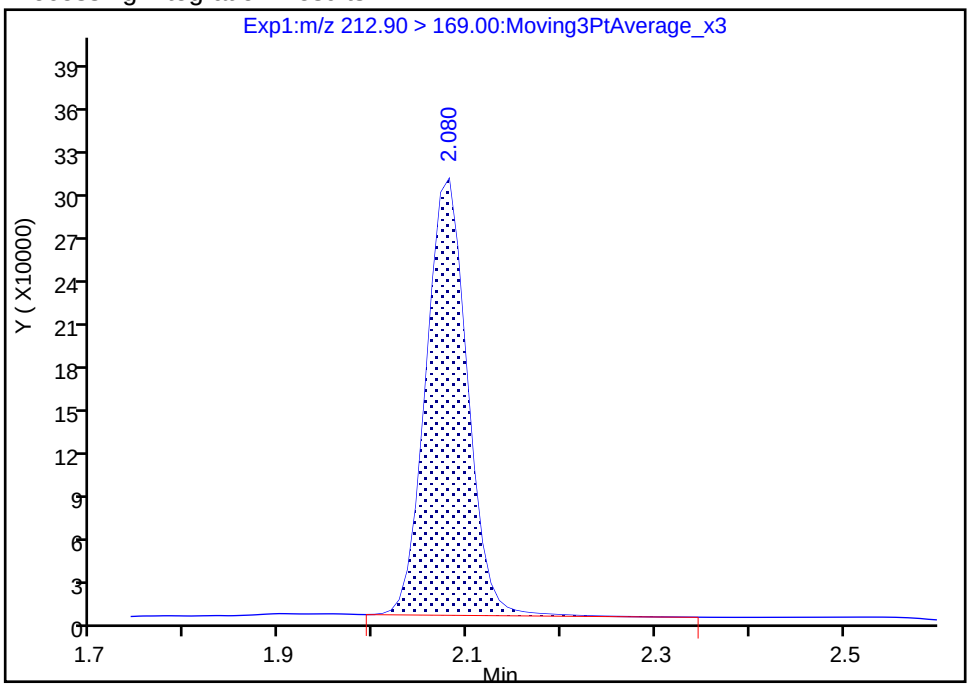
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B03.d
Injection Date: 19-Feb-2021 16:05:19 Instrument ID: LC812
Lims ID: LCS 200-164111/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

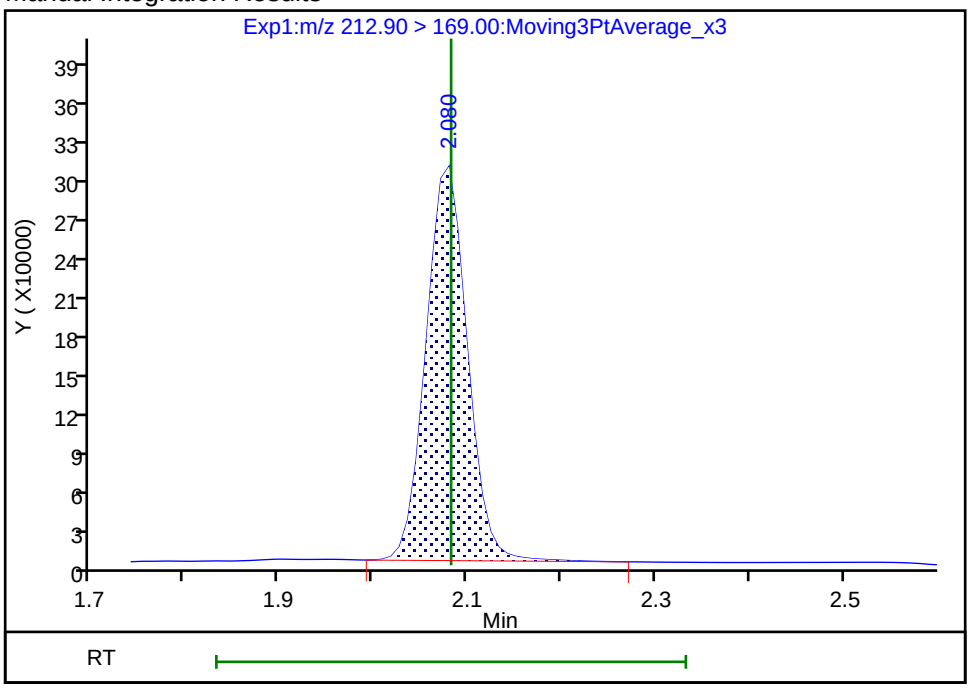
Processing Integration Results

RT: 2.08
Area: 919879
Amount: 0.768897
Amount Units: ng/ml



Manual Integration Results

RT: 2.08
Area: 918504
Amount: 0.767748
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:52:24
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

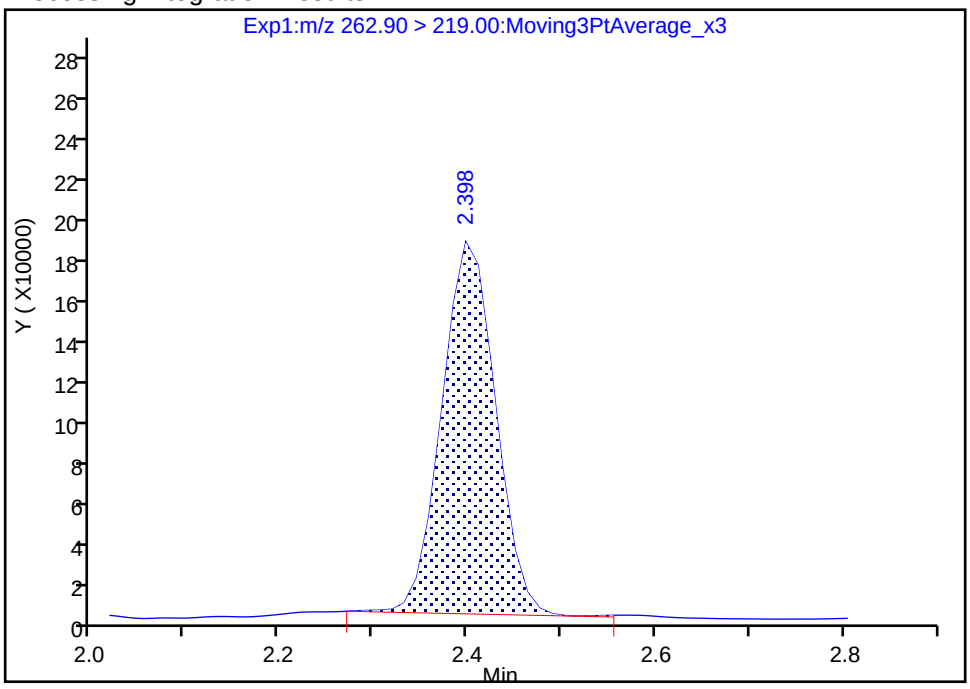
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B03.d				
Injection Date:	19-Feb-2021 16:05:19	Instrument ID:	LC812		
Lims ID:	LCS 200-164111/2-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

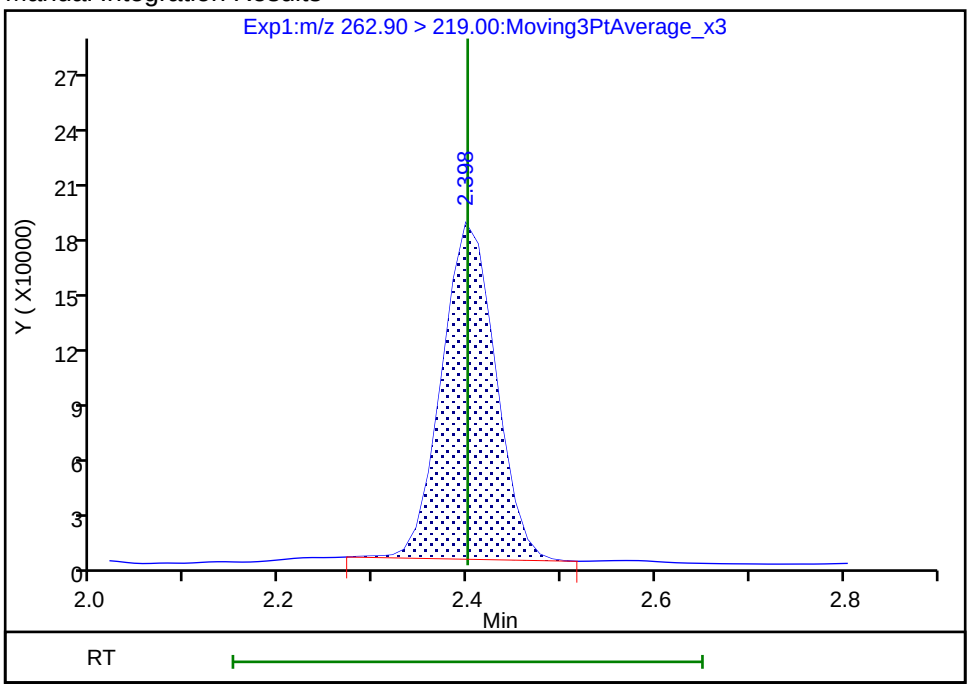
Processing Integration Results

RT: 2.40
Area: 724739
Amount: 0.784922
Amount Units: ng/ml



Manual Integration Results

RT: 2.40
Area: 722903
Amount: 0.782933
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:52:29

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

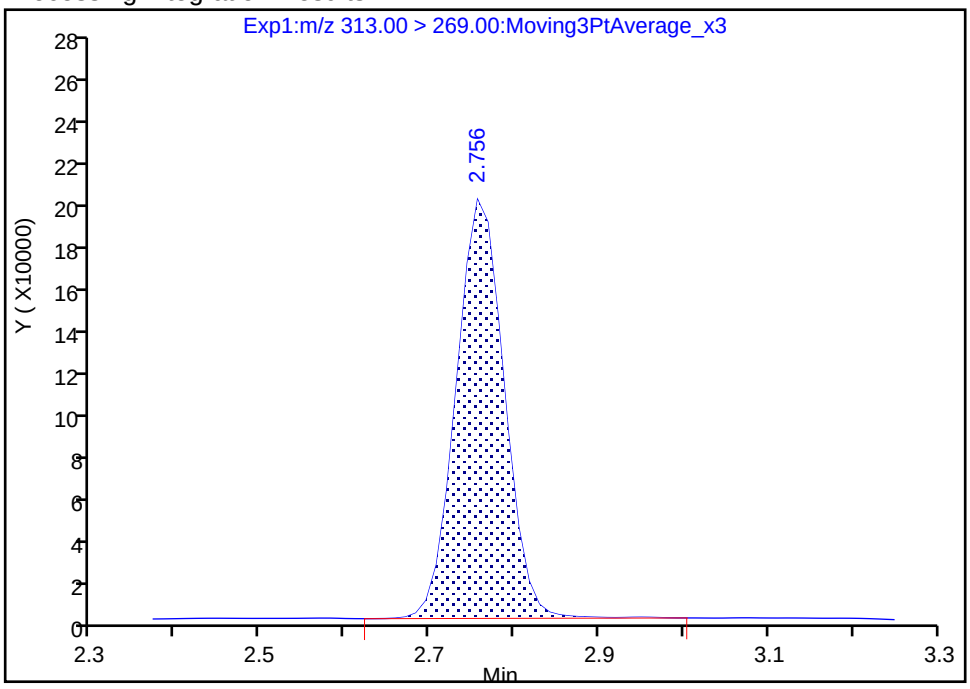
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B03.d				
Injection Date:	19-Feb-2021 16:05:19	Instrument ID:	LC812		
Lims ID:	LCS 200-164111/2-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

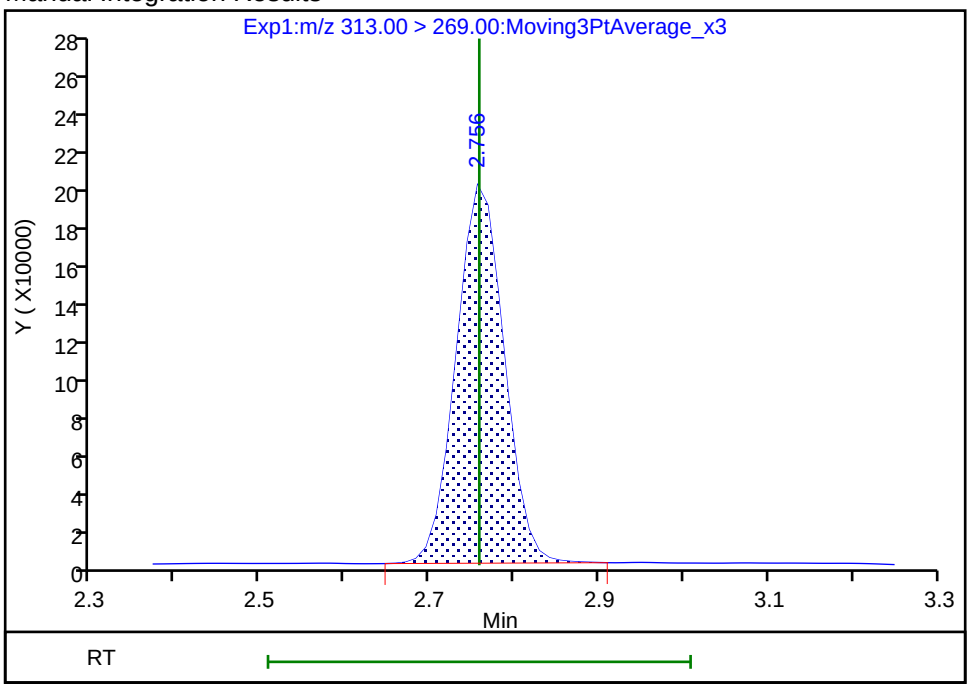
Processing Integration Results

RT: 2.76
Area: 786555
Amount: 0.806028
Amount Units: ng/ml



Manual Integration Results

RT: 2.76
Area: 782690
Amount: 0.802068
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:52:40

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

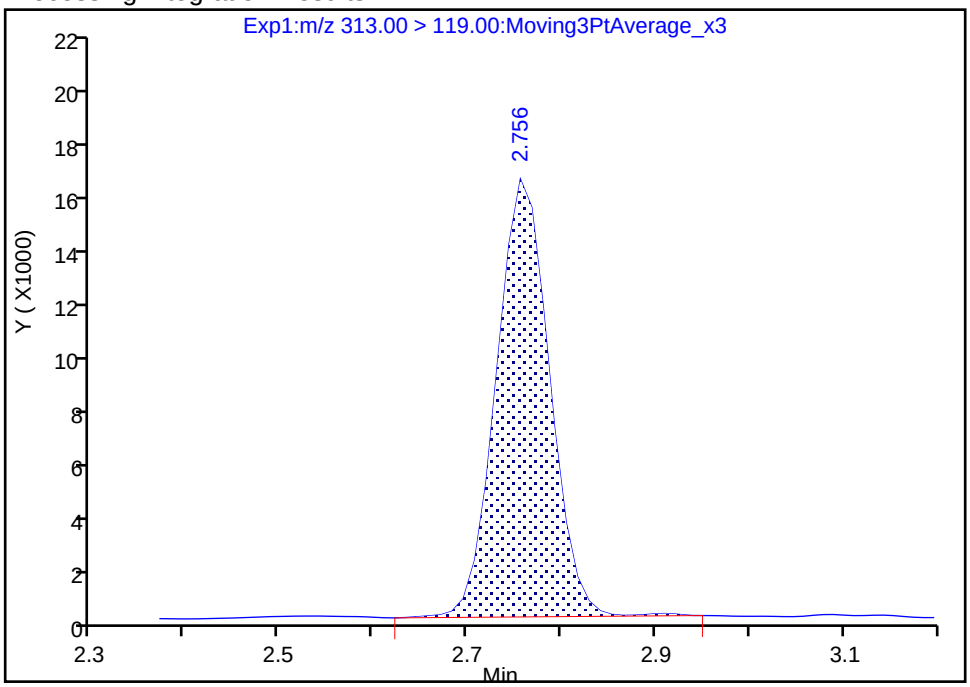
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B03.d
Injection Date: 19-Feb-2021 16:05:19 Instrument ID: LC812
Lims ID: LCS 200-164111/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

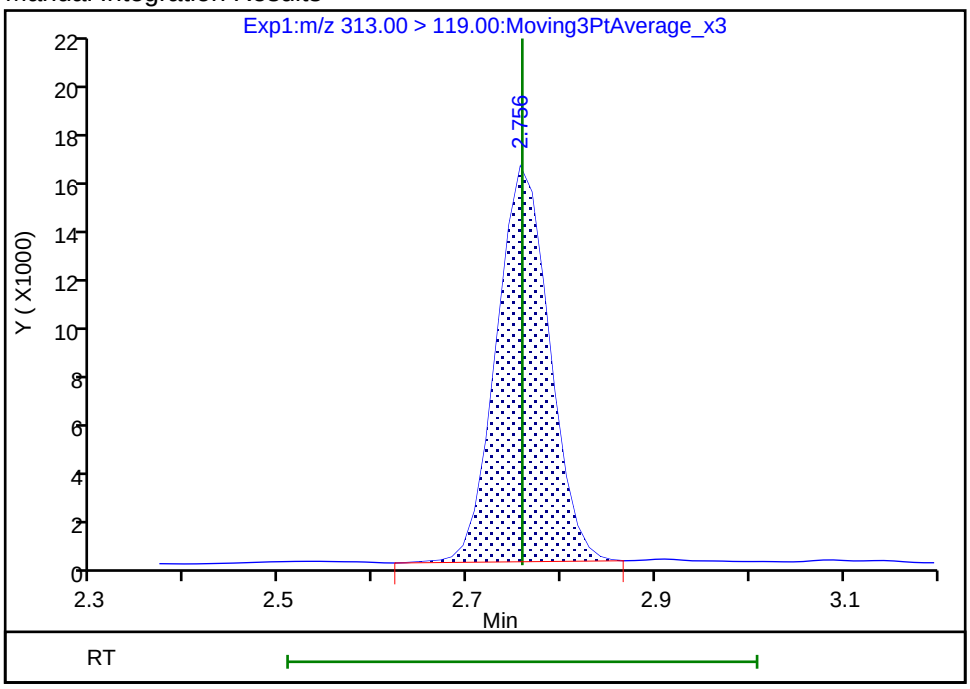
Processing Integration Results

RT: 2.76
Area: 64882
Amount: 0.806028
Amount Units: ng/ml



Manual Integration Results

RT: 2.76
Area: 64448
Amount: 0.802068
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:52:46
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

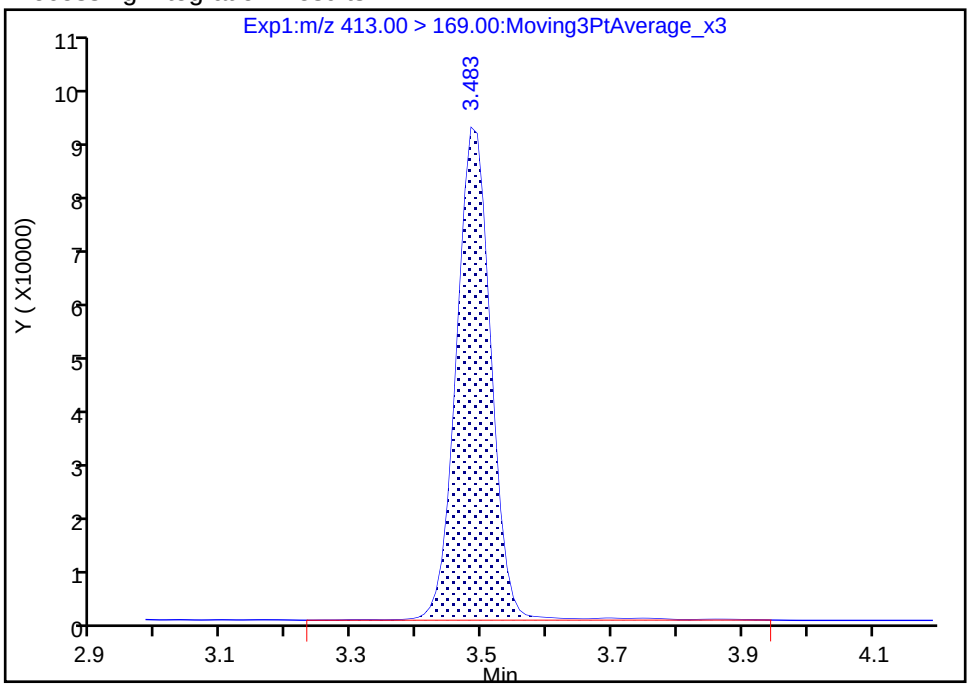
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B03.d				
Injection Date:	19-Feb-2021 16:05:19	Instrument ID:	LC812		
Lims ID:	LCS 200-164111/2-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

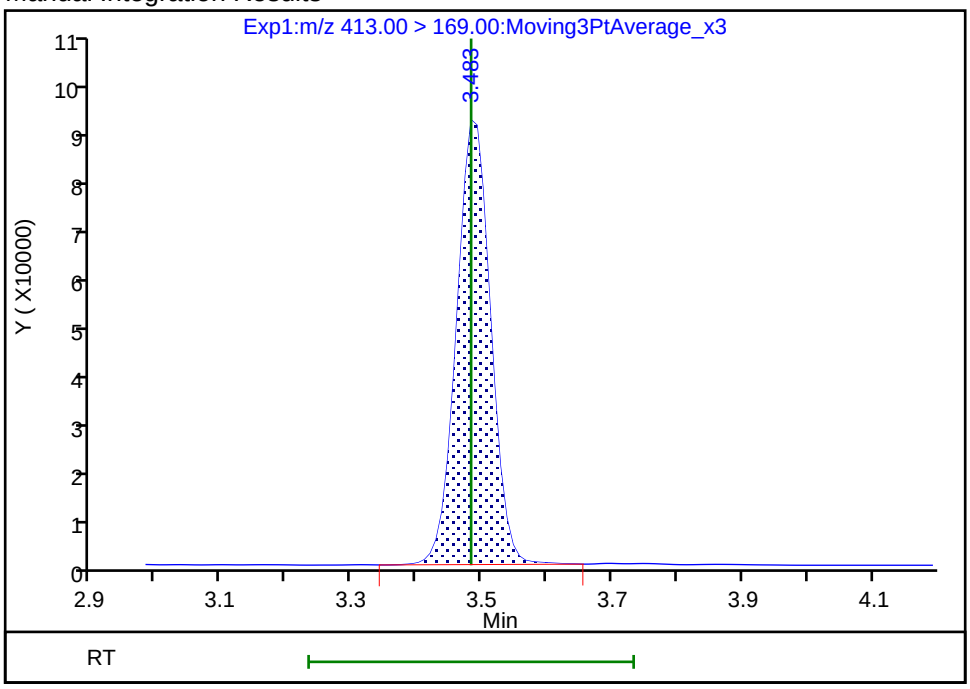
Processing Integration Results

RT: 3.48
Area: 312933
Amount: 0.835777
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 308194
Amount: 0.835777
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:53:20

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

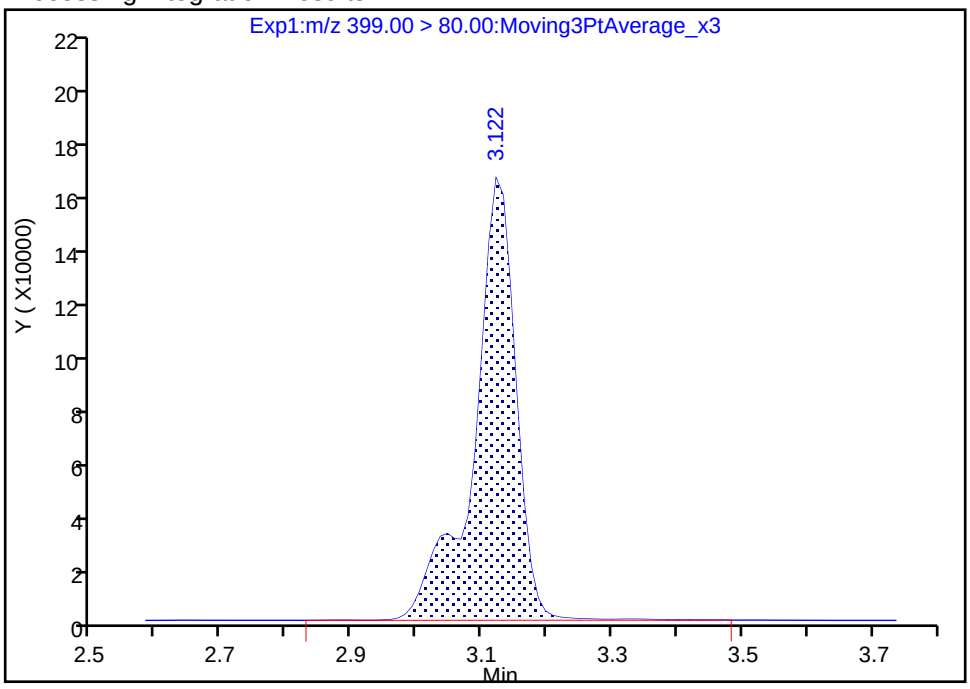
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B03.d				
Injection Date:	19-Feb-2021 16:05:19	Instrument ID:	LC812		
Lims ID:	LCS 200-164111/2-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

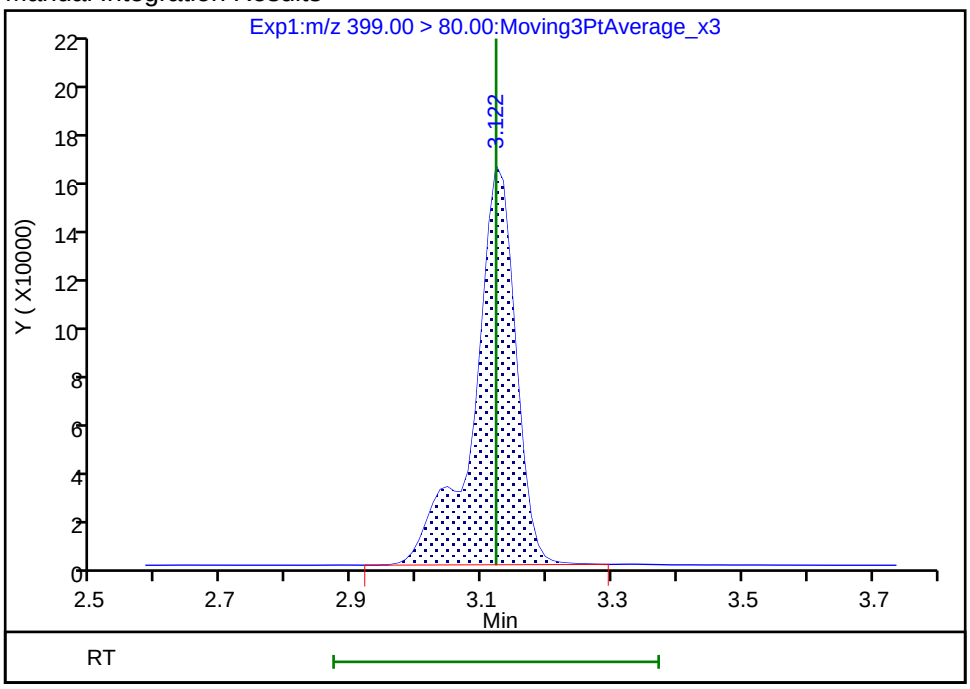
Processing Integration Results

RT: 3.12
Area: 744931
Amount: 0.771861
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 739648
Amount: 0.766387
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:53:00

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

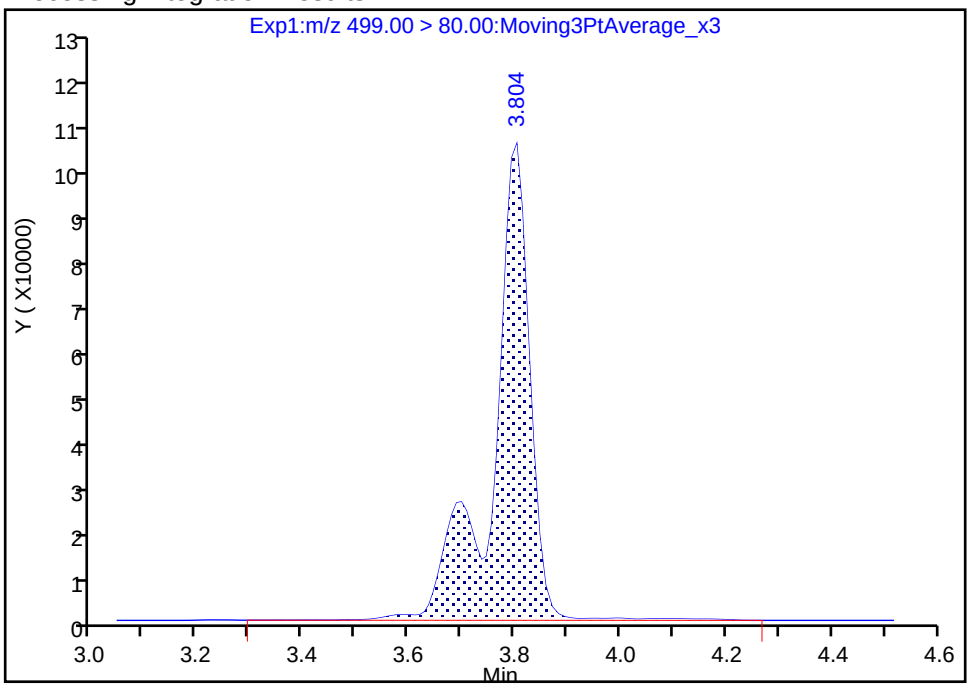
Data File:	\\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B03.d				
Injection Date:	19-Feb-2021 16:05:19	Instrument ID:	LC812		
Lims ID:	LCS 200-164111/2-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	18	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

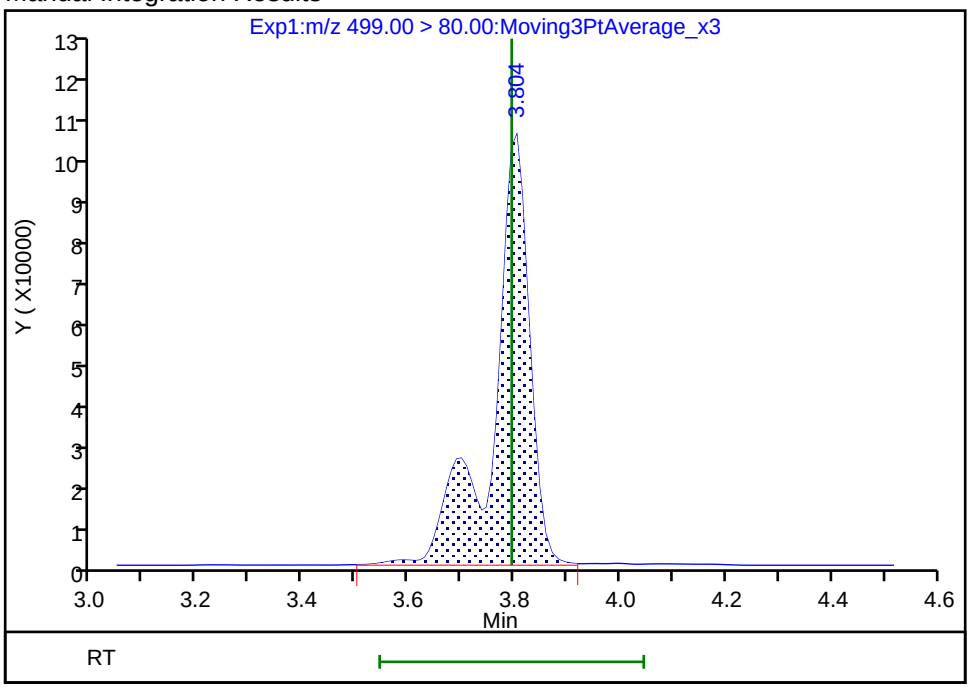
Processing Integration Results

RT: 3.80
Area: 503388
Amount: 0.785661
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 497672
Amount: 0.776740
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:53:29

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

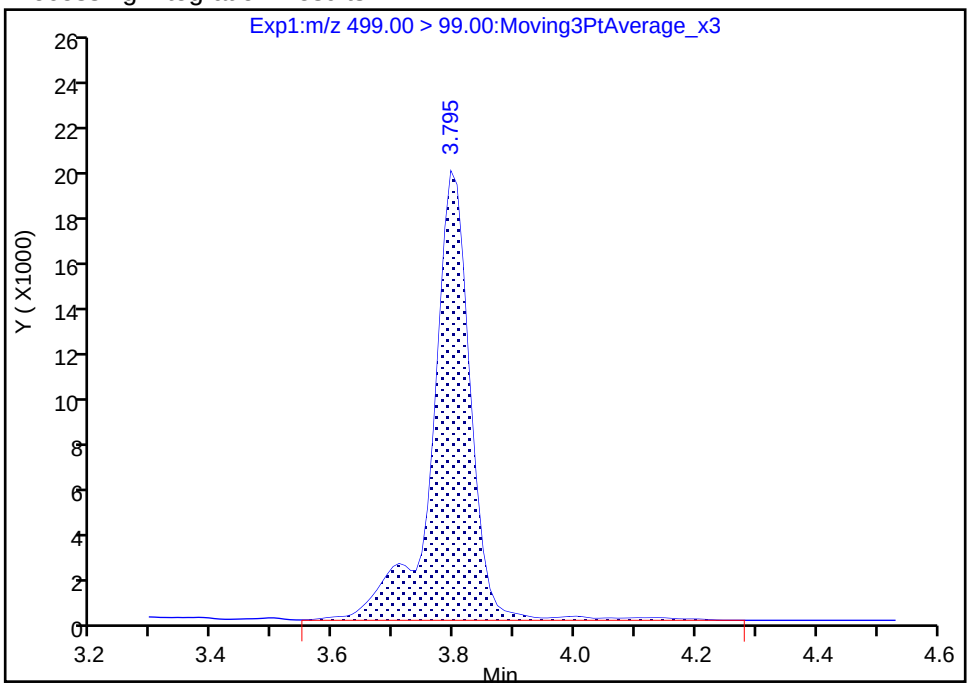
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B03.d
Injection Date: 19-Feb-2021 16:05:19 Instrument ID: LC812
Lims ID: LCS 200-164111/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

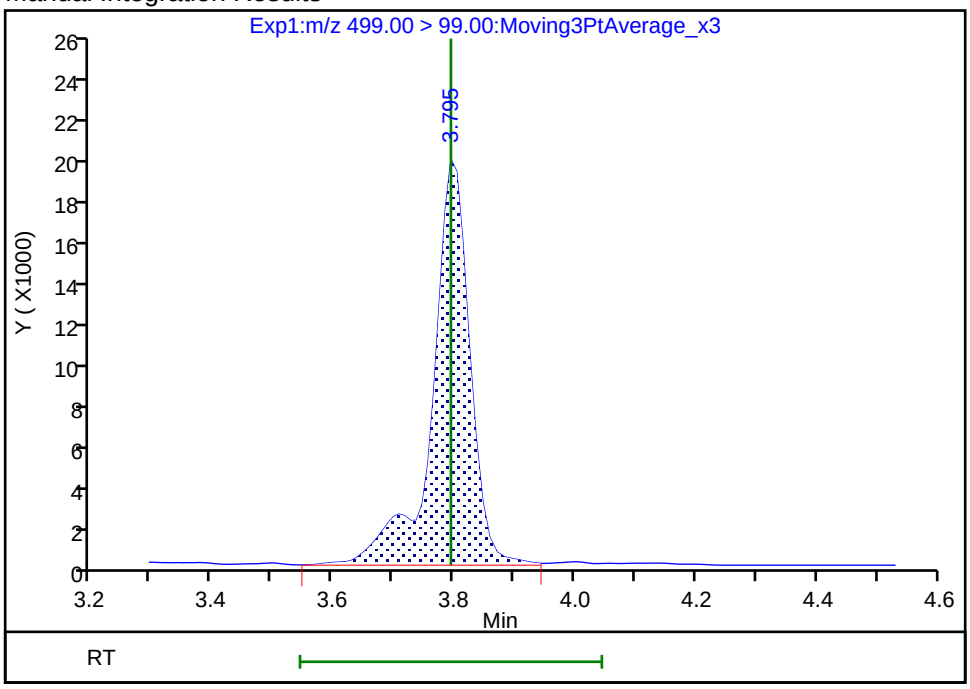
Processing Integration Results

RT: 3.79
Area: 86969
Amount: 0.785661
Amount Units: ng/ml



Manual Integration Results

RT: 3.79
Area: 85446
Amount: 0.776740
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:53:38
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

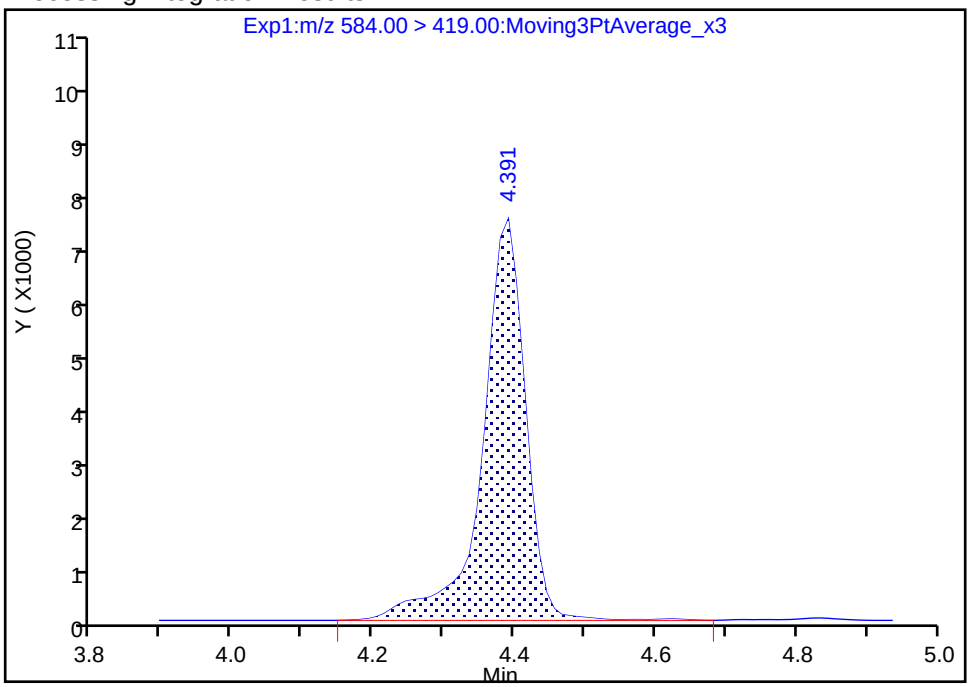
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B03.d
Injection Date: 19-Feb-2021 16:05:19 Instrument ID: LC812
Lims ID: LCS 200-164111/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

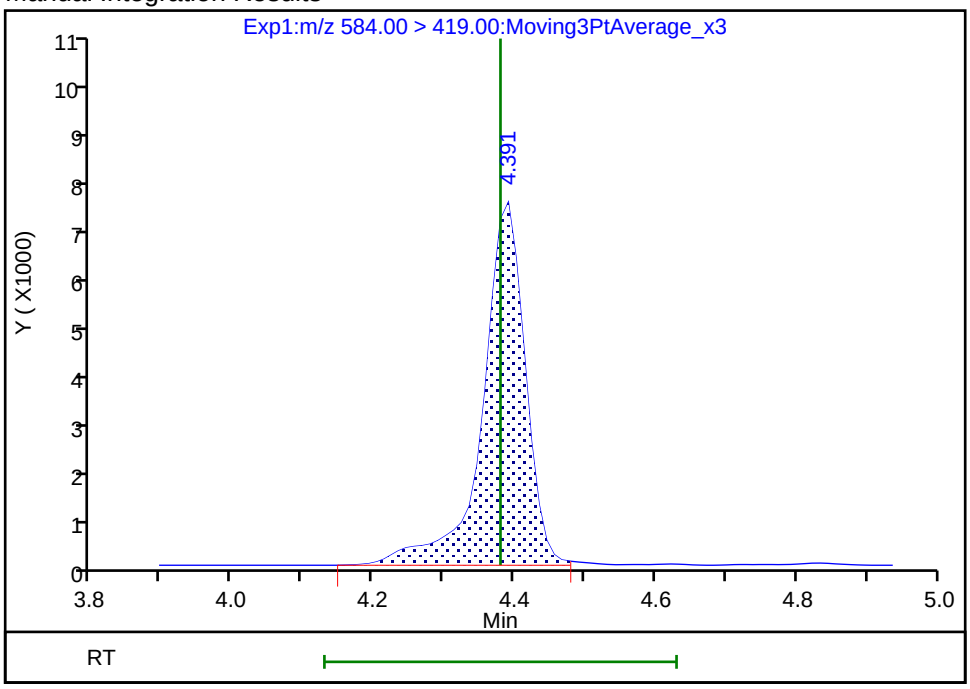
Processing Integration Results

RT: 4.39
Area: 31854
Amount: 0.840204
Amount Units: ng/ml



Manual Integration Results

RT: 4.39
Area: 31578
Amount: 0.832924
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:54:00
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

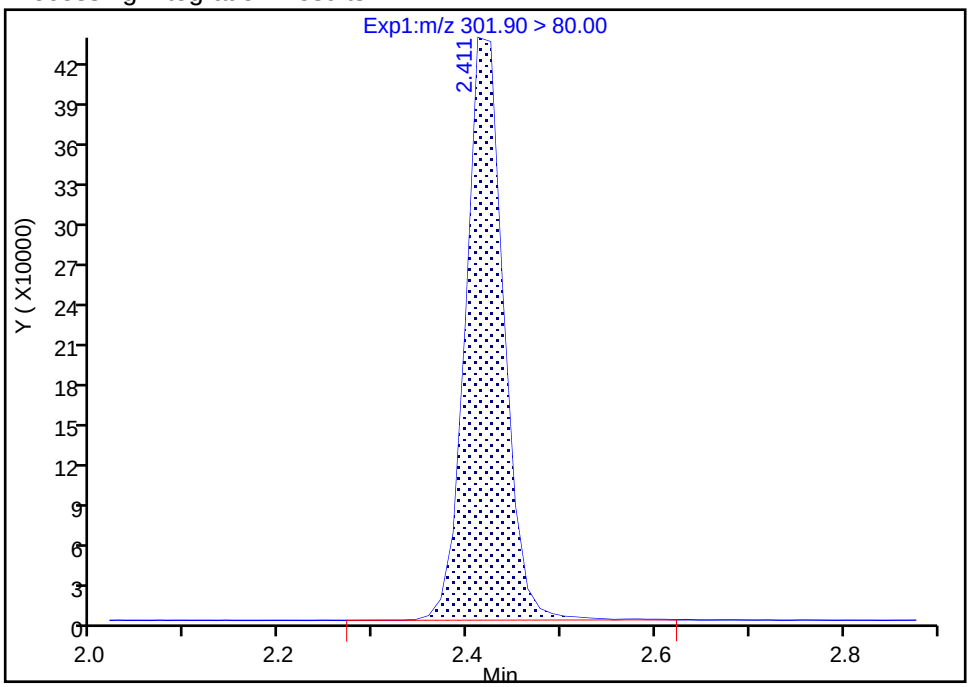
Data File: \\chromfs\Burlington\ChromData\LC812\20210219-44899.b\PA210219B03.d
Injection Date: 19-Feb-2021 16:05:19 Instrument ID: LC812
Lims ID: LCS 200-164111/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

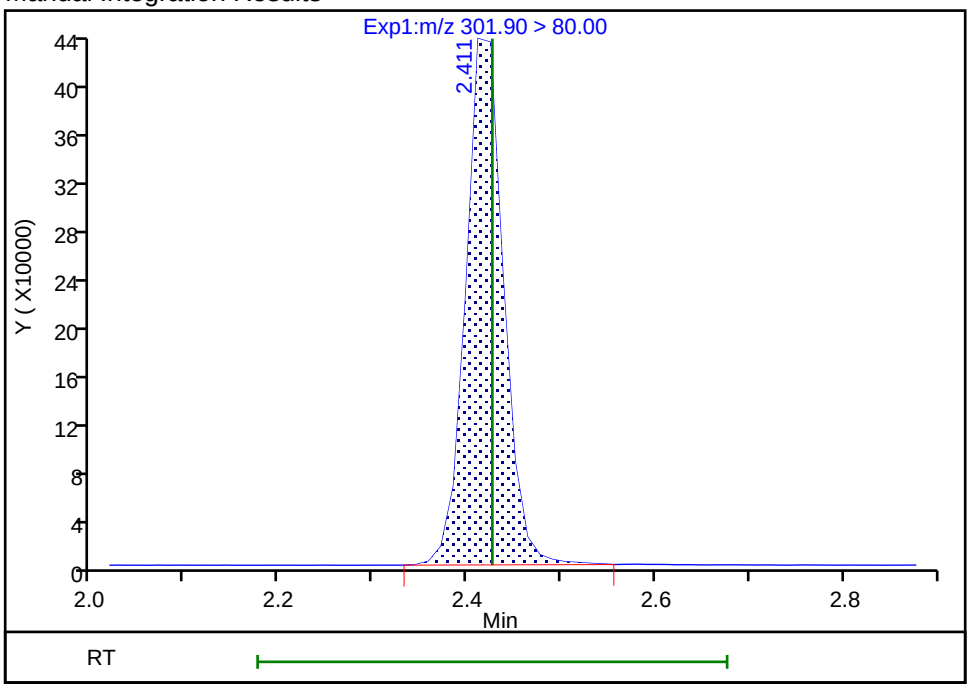
Processing Integration Results

RT: 2.41
Area: 1206020
Amount: 1.227839
Amount Units: ng/ml



Manual Integration Results

RT: 2.41
Area: 1203085
Amount: 1.224851
Amount Units: ng/ml



Reviewer: khanphomeea, 22-Feb-2021 10:49:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 200-164298/2-A

Matrix: Solid Lab File ID: PA210226A05.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: SHAKE Date Extracted: 02/25/2021 15:08

Sample wt/vol: 5.00(g) Date Analyzed: 02/26/2021 13:19

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 164334 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	2.062		0.50	0.19
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.839		0.20	0.018
307-24-4	Perfluorohexanoic acid (PFHxA)	1.887		0.20	0.024
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.910		0.20	0.023
335-67-1	Perfluorooctanoic acid (PFOA)	1.845		0.20	0.014
375-95-1	Perfluorononanoic acid (PFNA)	1.938		0.20	0.020
335-76-2	Perfluorodecanoic acid (PFDA)	1.913		0.20	0.021
2058-94-8	Perfluoroundecanoic acid (PFUnA)	2.042		0.20	0.024
307-55-1	Perfluorododecanoic acid (PFDoA)	1.766		0.20	0.015
72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.930		0.20	0.013
376-06-7	Perfluorotetradecanoic acid (PFTeA)	2.153		0.20	0.019
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.740		0.20	0.0088
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.707		0.20	0.015
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	1.779		0.20	0.015
335-77-3	Perfluorodecanesulfonic acid (PFDS)	1.835		0.20	0.019
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.804		0.20	0.067
754-91-6	Perfluorooctanesulfonamide (PFOSA)	1.916		0.20	0.0088
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.011		2.00	0.034
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.036		2.00	0.030
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	1.797	J	2.00	0.022
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	1.592	J	2.00	0.029

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 200-164298/2-A

Matrix: Solid Lab File ID: PA210226A05.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: SHAKE Date Extracted: 02/25/2021 15:08

Sample wt/vol: 5.00(g) Date Analyzed: 02/26/2021 13:19

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 164334 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01892	13C4 PFHpA	105		50-150
STL00990	13C4 PFOA	106		50-150
STL00995	13C5 PFNA	99		50-150
STL00992	13C4 PFBA	71		25-150
STL00993	13C2 PFHxA	108		50-150
STL00996	13C2 PFDA	94		50-150
STL00997	13C2 PFUnA	87		50-150
STL00994	18O2 PFHxS	106		50-150
STL00998	13C2 PFDoA	92		50-150
STL00991	13C4 PFOS	108		50-150
STL01056	13C8 FOSA	97		25-150
STL01893	13C5 PFPeA	105		25-150
STL02116	13C2 PFTeDA	77		50-150
STL02118	d3-NMeFOSAA	90		50-150
STL02117	d5-NEtFOSAA	89		50-150
STL02279	M2-6:2 FTS	106		25-150
STL02337	13C3 PFBS	106		50-150
STL02280	M2-8:2 FTS	103		25-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A05.d
Lims ID: LCS 200-164298/2-A
Client ID:
Sample Type: LCS
Inject. Date: 26-Feb-2021 13:19:31 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCS 200-164298/2-A
Misc. Info.: 200-0044972-005 Plate: 1 Rack: 2
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 26-Feb-2021 16:14:31 Calib Date: 22-Dec-2020 13:29:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1601

First Level Reviewer: deannd Date: 26-Feb-2021 15:48:33
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.071	2.082	-0.011	0.596	875702	0.8876		71.0	9187	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.071	2.082	-0.011	1.000	723900	1.03		103	225	
D 3 13C5 PFPeA										
267.90 > 223.00	2.398	2.401	-0.003	0.690	935748	1.31		105	3231	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.398	2.401	-0.003	1.000	762204	0.9195		92.0	43.8	
D 47 13C3 PFBS										
301.90 > 80.00	2.411	2.427	-0.016	0.694	1158660	1.23		106	223508	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.411	2.427	-0.016	1.000	980855	0.8699	Target=2.21	98.4	1926	
298.90 > 99.00	2.411	2.427	-0.016	1.000	414490		2.37(1.11-3.32)		295	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.719	2.723	-0.004	0.783	95690	1.22		105	120	M
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.719	2.723	-0.004	1.000	136846	0.9105		97.5	1710	
D 7 13C2 PFHxA										
315.00 > 270.00	2.744	2.759	-0.015	0.790	1006039	1.35		108	3299	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.756	2.759	-0.003	1.004	829461	0.9434	Target=12.83	94.3	172	
313.00 > 119.00	2.744	2.759	-0.015	1.000	73915		11.22(6.42-19.25)		108	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.756	2.771	-0.015	0.886	904379	0.9336	Target=3.35	99.5	2055	
349.00 > 99.00	2.756	2.771	-0.015	0.886	260754		3.47(1.67-5.02)		403	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.853	2.869	-0.016	0.821	107498	0.8168		65.3	868	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										
329.10 > 285.00	2.853	2.869	-0.016	1.000	143721	1.21		121	38.7	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.111	3.123	-0.012	1.000	742375	0.8534	Target=4.15	93.8	1533	M
399.00 > 99.00	3.111	3.123	-0.012	1.000	175879		4.22(2.08-6.23)		182	
D 11 18O2 PFHxS										
403.00 > 84.00	3.111	3.123	-0.012	0.895	872869	1.25		106	2429	
D 9 13C4 PFHpA										
367.00 > 322.00	3.122	3.133	-0.011	0.899	942499	1.32		105	3184	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.122	3.133	-0.011	1.000	786510	0.9550	Target=3.66	95.5	262	
363.00 > 169.00	3.122	3.133	-0.011	1.000	222013		3.54(1.83-5.49)		575	
77 DONA										
377.00 > 251.00	3.154	3.165	-0.011	0.831	1439421	0.8294	Target=2.43	88.0	1545	
377.00 > 85.00	3.154	3.165	-0.011	0.831	609406		2.36(1.22-3.65)		805	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.465	3.475	-0.010	0.913	622509	0.8896	Target=5.95	93.4	2404	
449.00 > 99.00	3.465	3.475	-0.010	0.913	102657		6.06(2.98-8.93)		297	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.465	3.475	-0.010	0.997	109311	1.25		106	467	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.465	3.475	-0.010	1.000	91989	0.8984		94.8	1745	
D 14 13C4 PFOA										
417.00 > 372.00	3.474	3.484	-0.010	1.000	965803	1.33		106	4471	
* 62 13C2 PFOA										
415.00 > 370.00	3.474	3.484	-0.010		918052	1.25			1849	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.474	3.493	-0.019	1.000	772790	0.9227	Target=2.58	92.3	216	M
413.00 > 169.00	3.474	3.493	-0.019	1.000	309635		2.50(1.29-3.87)		828	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.794	3.796	-0.002	1.000	537681	0.9020	Target=5.65	97.2	690	M
499.00 > 99.00	3.794	3.796	-0.002	1.000	86284		6.23(2.82-8.47)		341	M
D 18 13C4 PFOS										
503.00 > 80.00	3.794	3.796	-0.002	1.092	619368	1.29		108	3840	
D 19 13C5 PFNA										
468.00 > 423.00	3.804	3.816	-0.012	1.095	791050	1.23		98.7	2998	
20 Perfluorononanoic acid										
463.00 > 419.00	3.814	3.816	-0.002	1.003	678808	0.9691	Target=7.44	96.9	131	
463.00 > 169.00	3.804	3.816	-0.012	1.000	99326		6.83(3.72-11.16)		1326	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.955	3.957	-0.002	1.042	517412	0.7780		83.5	1999	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.081	4.084	-0.003	1.076	393442	0.8847	Target=2.54	92.2	1744	
549.00 > 99.00	4.081	4.084	-0.003	1.076	141305		2.78(1.27-3.81)		475	
D 23 13C2 PFDA										
515.00 > 470.00	4.104	4.118	-0.014	1.181	719268	1.17		93.9	4026	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.104	4.118	-0.014	1.000	567298	0.9567	Target=9.29	95.7	394	
513.00 > 169.00	4.104	4.118	-0.014	1.000	70508		8.05(4.64-13.93)		556	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.115	4.129	-0.014	1.184	110685	1.23		103	497	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.115	4.129	-0.014	1.000	50038	0.7960		83.1	521	
D 21 13C8 FOSA										
506.00 > 78.00	4.205	4.207	-0.003	1.210	1096571	1.22		97.4	5669	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.205	4.217	-0.013	1.000	842394	0.9582		95.8	1413	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.246	4.260	-0.014	1.222	50256	1.13		90.4	162	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.257	4.260	-0.003	1.003	35837	1.01		101	252	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.336	4.350	-0.014	1.143	325377	0.9177	Target=2.80	95.2	2017	
599.00 > 99.00	4.336	4.350	-0.014	1.143	117319		2.77(1.40-4.19)		574	
D 30 13C2 PFUnA										
565.00 > 520.00	4.369	4.373	-0.004	1.258	550358	1.09		87.4	2873	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.369	4.373	-0.004	1.000	458409	1.02	Target=8.12	102	288	
563.00 > 169.00	4.369	4.373	-0.004	1.000	61270		7.48(4.06-12.18)		654	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.380	4.384	-0.004	1.261	47679	1.11		88.7	529	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.380	4.395	-0.015	1.000	35939	1.02		102	424	M
66 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.456	4.473	-0.017	1.174	470104	0.6812		72.3	2606	
D 36 13C2 PFDoA										
615.00 > 570.00	4.590	4.606	-0.016	1.321	611823	1.15		92.1	3176	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.590	4.606	-0.016	1.000	475251	0.8828	Target=6.91	88.3	159	
613.00 > 169.00	4.590	4.606	-0.016	1.000	81030		5.87(3.45-10.36)		1255	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.611	4.616	-0.005	1.121	27431	0.8476		87.9	7545	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.765	4.770	-0.005	1.256	104475	0.8009	Target=0.51	82.7	1123	
699.00 > 99.00	4.765	4.770	-0.005	1.256	203792		0.51(0.26-0.77)		834	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.801	4.806	-0.005	1.046	421495	0.9648	Target=4.39	96.5	200	
663.00 > 169.00	4.801	4.806	-0.005	1.046	103113		4.09(2.20-6.59)		1309	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.985	4.998	-0.013	1.435	377027	0.9590		76.7	948	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.985	4.998	-0.013	1.000	60202	1.08	Target=1.06	108	1247	
713.00 > 219.00	4.985	4.998	-0.013	1.000	57498		1.05(0.53-1.59)		883	

Report Date: 26-Feb-2021 16:14:37 Chrom Revision: 2.3 05-Feb-2021 00:13:28
Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A05.d
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.327	5.329	-0.002	1.533	364864	0.8688		69.5	2249	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.327	5.329	-0.002	1.000	285723	1.04	Target=3.84	104	114	
813.00 > 169.00	5.327	5.329	-0.002	1.000	76234		3.75(1.92-5.76)		1812	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.638	5.649	-0.011	1.058	243061	0.9255	Target=3.92	92.5	290	
913.00 > 169.00	5.638	5.649	-0.011	1.058	68557		3.55(1.96-5.88)		876	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Report Date: 26-Feb-2021 16:14:38 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A05.d

Injection Date: 26-Feb-2021 13:19:31 Instrument ID: LC812

Lims ID: LCS 200-164298/2-A

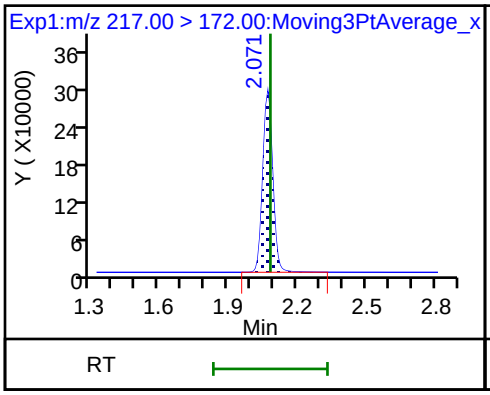
Client ID:

Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 5

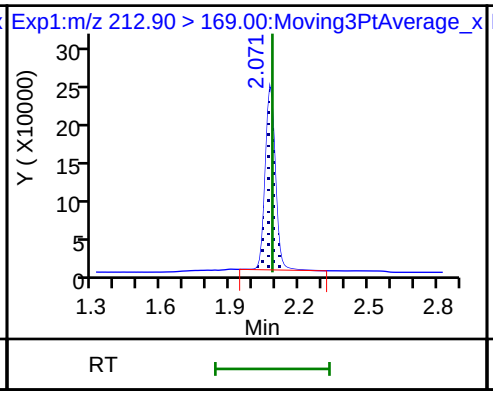
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

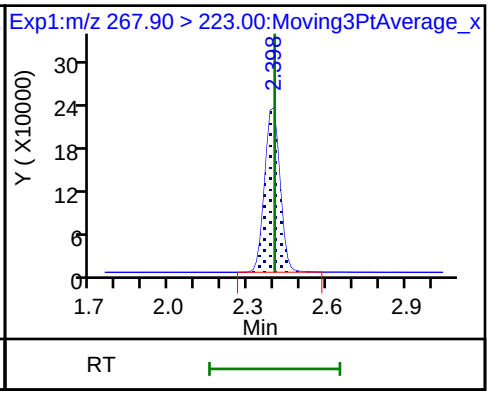
D 1 13C4 PFBA



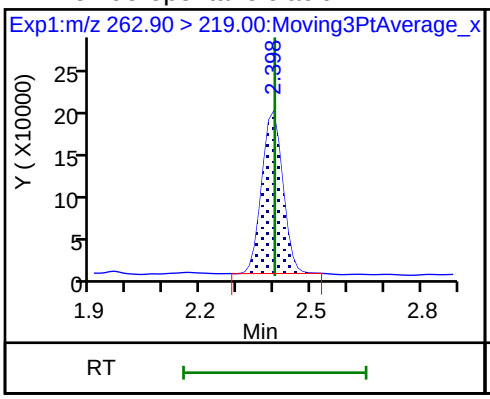
2 Perfluorobutanoic acid



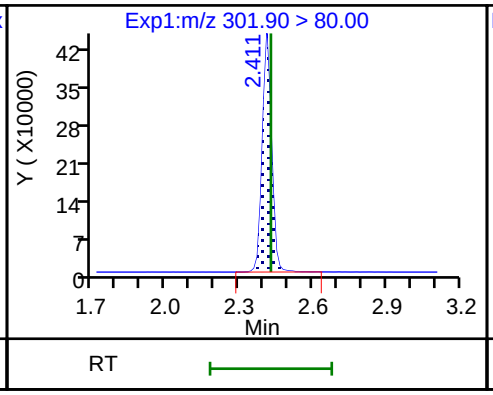
D 3 13C5 PFPeA



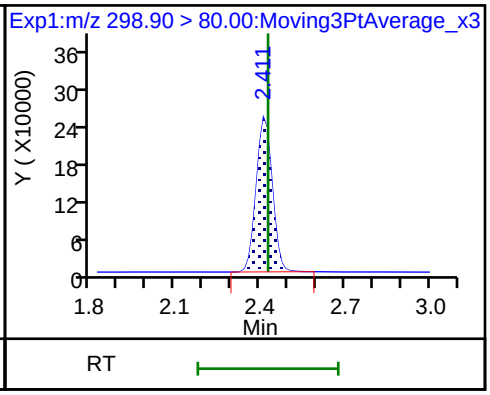
4 Perfluoropentanoic acid



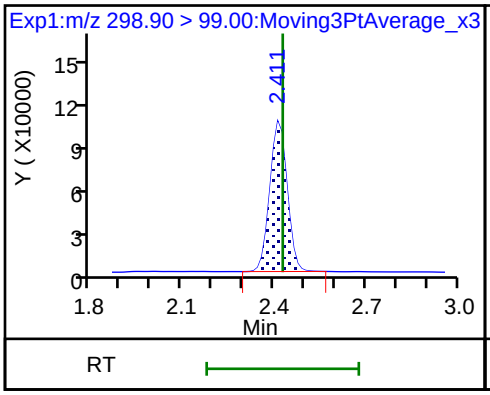
D 47 13C3 PFBS



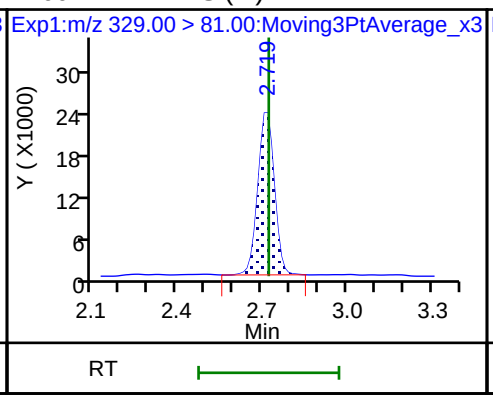
5 Perfluorobutanesulfonic acid



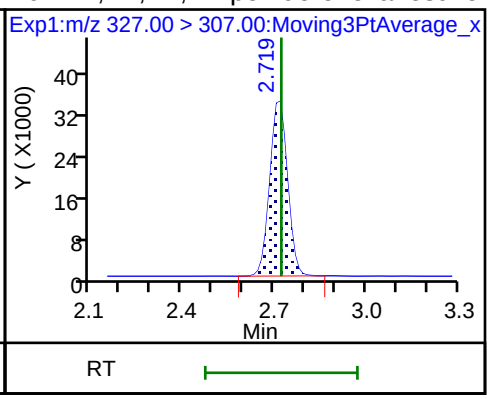
5 Perfluorobutanesulfonic acid



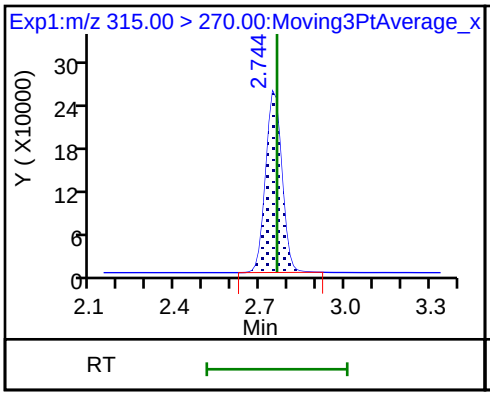
D 60 M2-4:2 FTS (M)



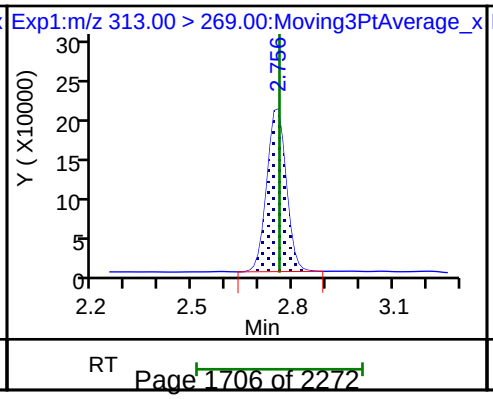
61 1H,1H,2H,2H-perfluorohexanesulfo



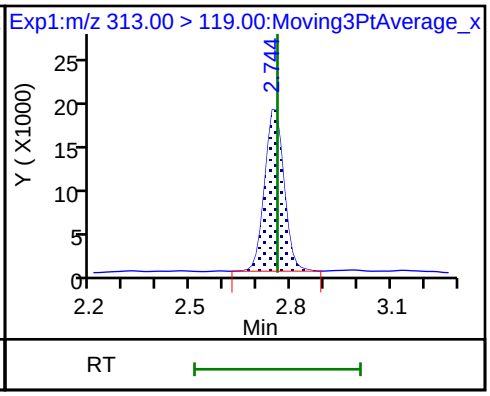
D 7 13C2 PFHxA



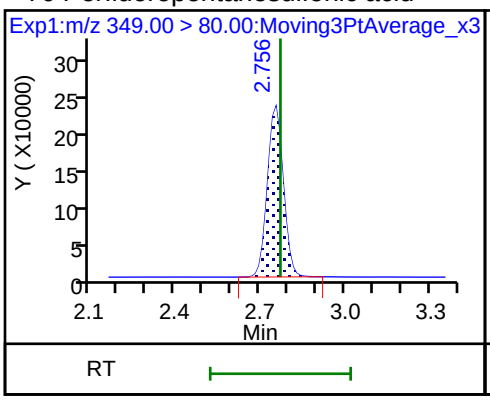
6 Perfluorohexanoic acid



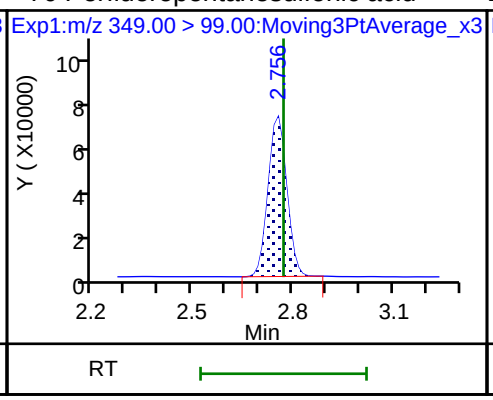
6 Perfluorohexanoic acid



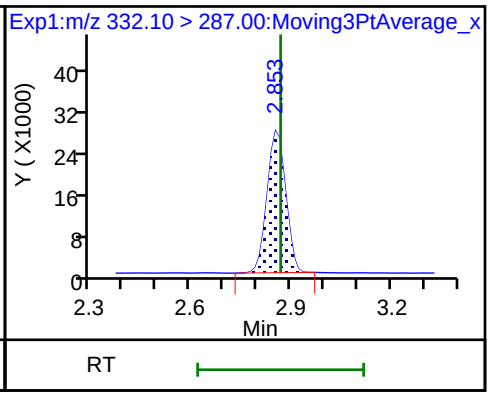
70 Perfluoropentanesulfonic acid



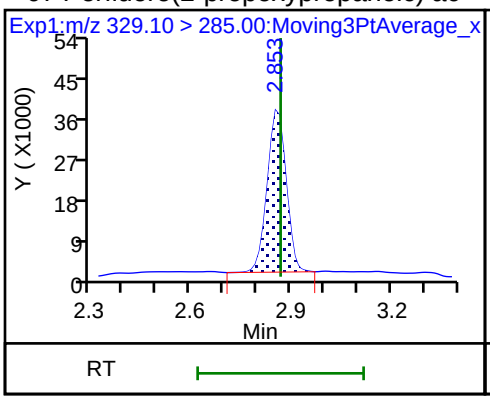
70 Perfluoropentanesulfonic acid



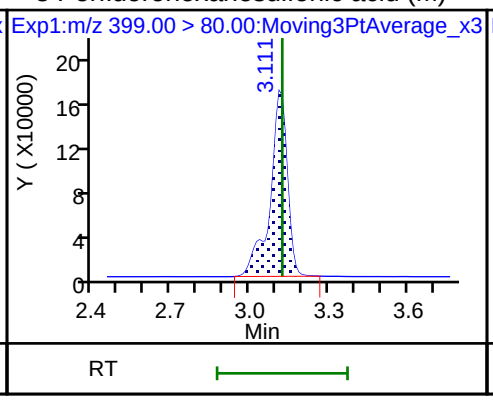
D 64 13C3 HFPO-DA



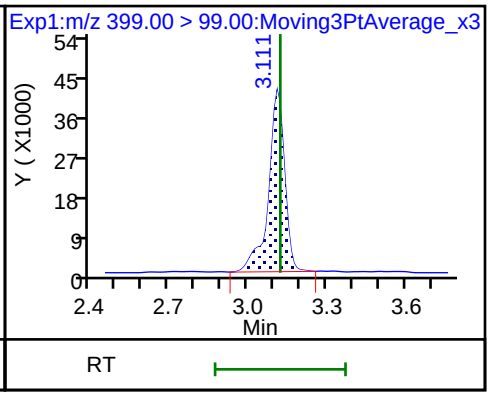
67 Perfluoro(2-propoxypropanoic) ac



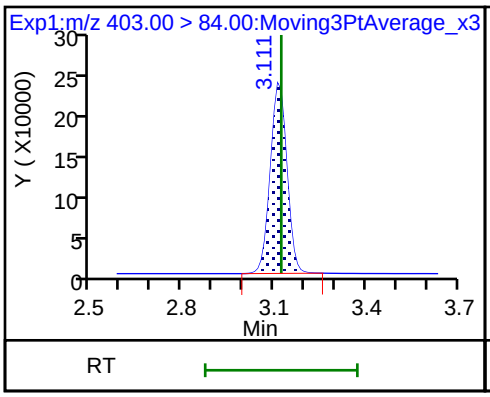
8 Perfluorohexanesulfonic acid (M)



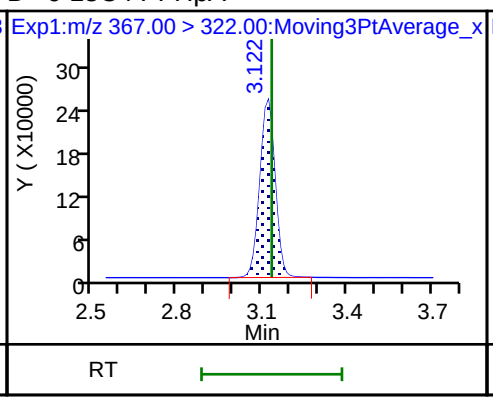
8 Perfluorohexanesulfonic acid



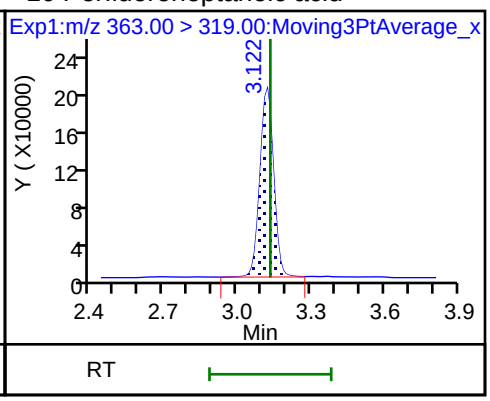
D 11 18O2 PFHxS



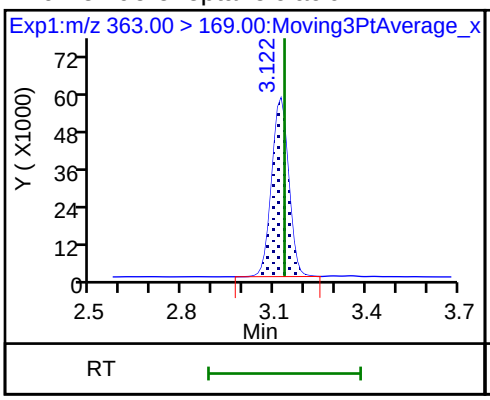
D 9 13C4 PFHpA



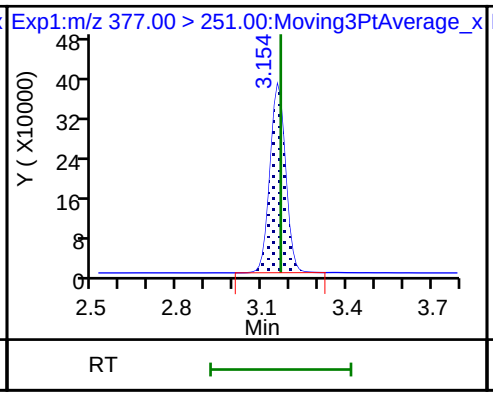
10 Perfluoroheptanoic acid



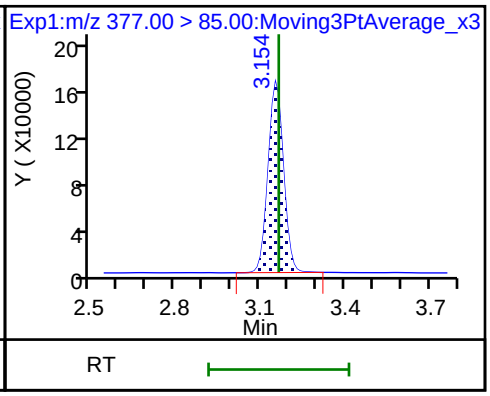
10 Perfluoroheptanoic acid



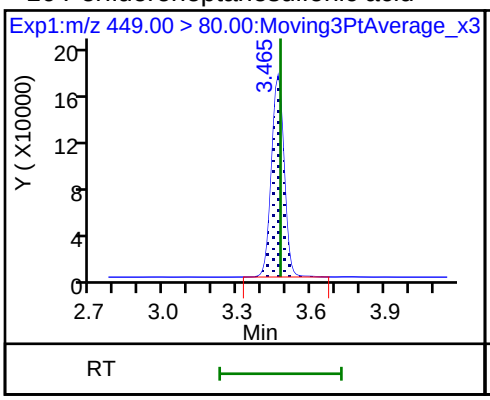
77 DONA



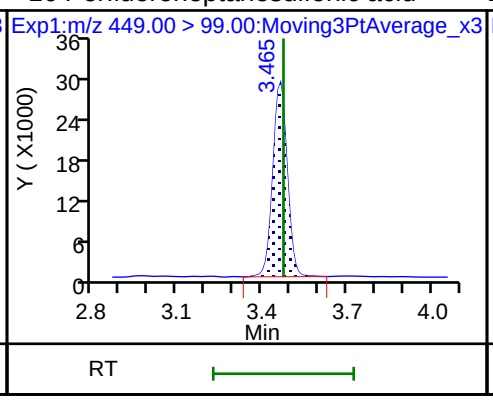
77 DONA



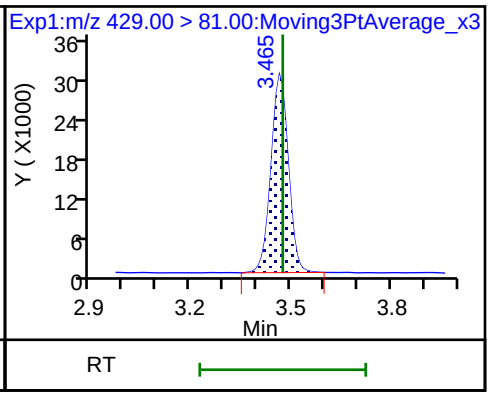
16 Perfluoroheptanesulfonic acid



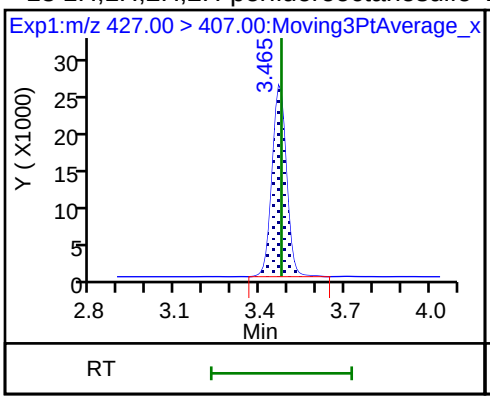
16 Perfluoroheptanesulfonic acid



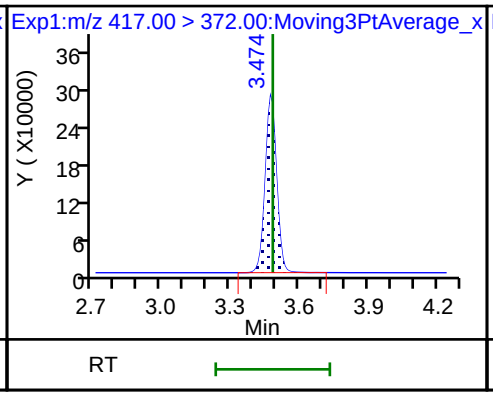
D 12 M2-6:2 FTS



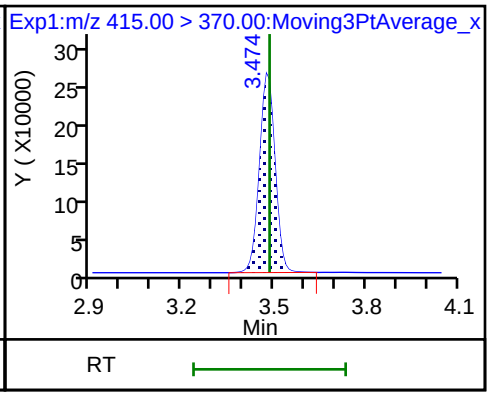
13 1H,1H,2H,2H-perfluorooctanesulfo



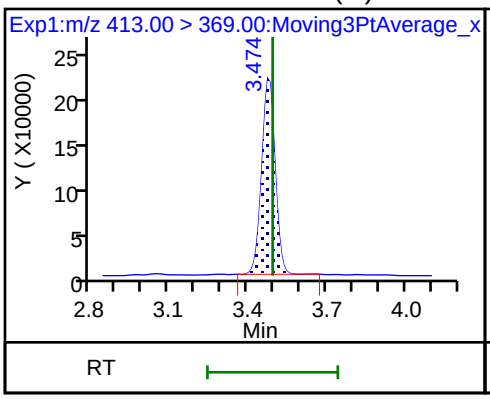
D 14 13C4 PFOA



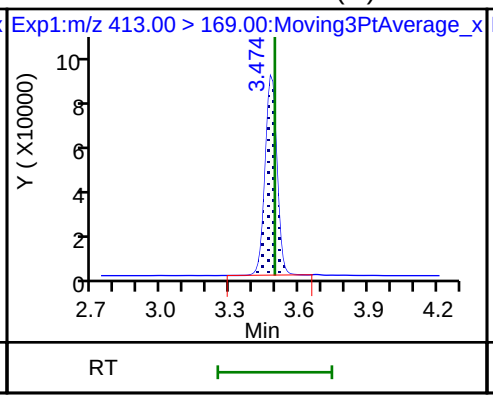
* 62 13C2 PFOA



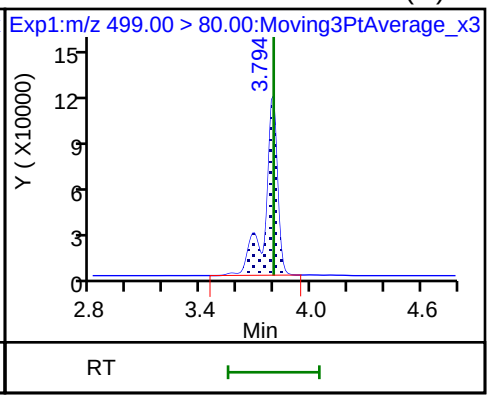
15 Perfluorooctanoic acid (M)



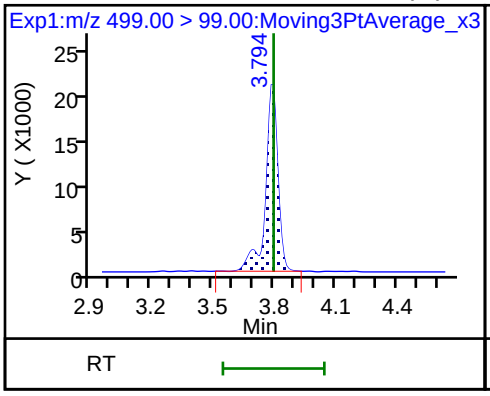
15 Perfluorooctanoic acid (M)



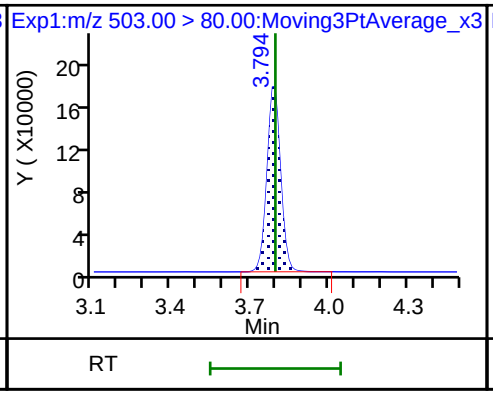
17 Perfluorooctanesulfonic acid (M)



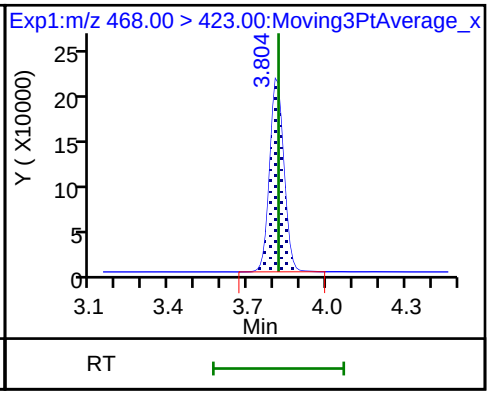
17 Perfluorooctanesulfonic acid (M)



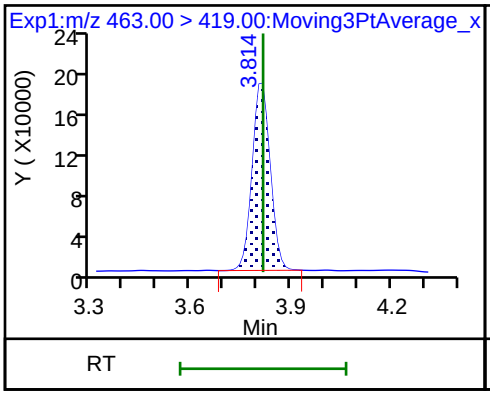
D 18 13C4 PFOS



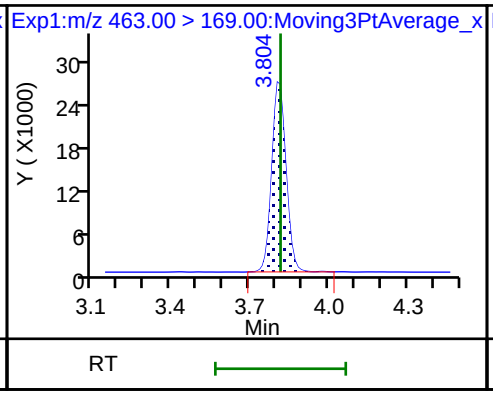
D 19 13C5 PFNA



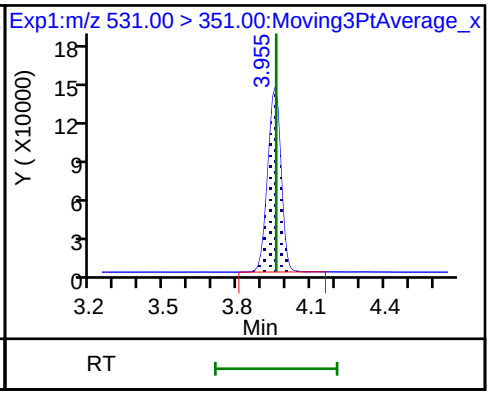
20 Perfluorononanoic acid



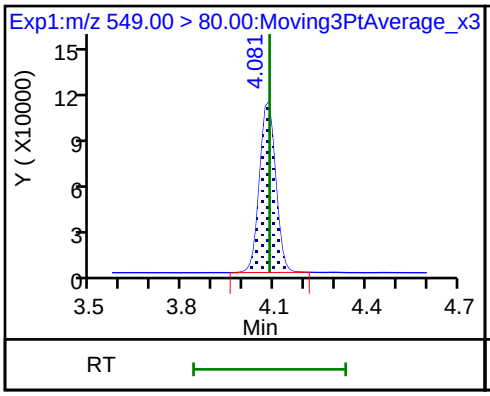
20 Perfluorononanoic acid



69 9-Chlorohexadecafluoro-3-oxanona



68 Perfluorononanesulfonic acid



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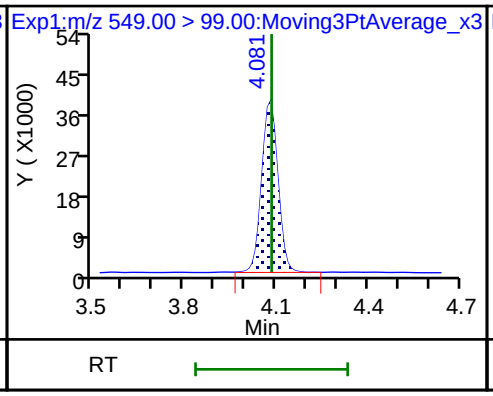
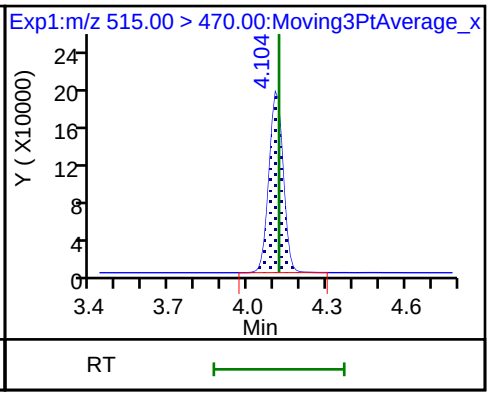
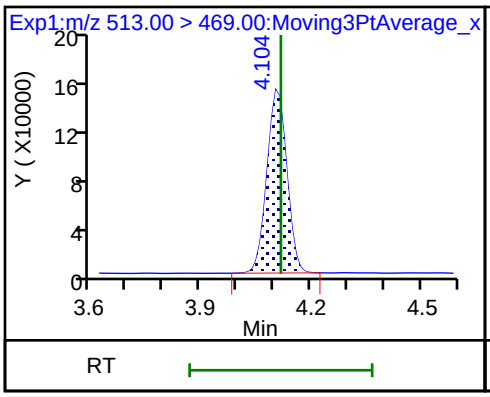


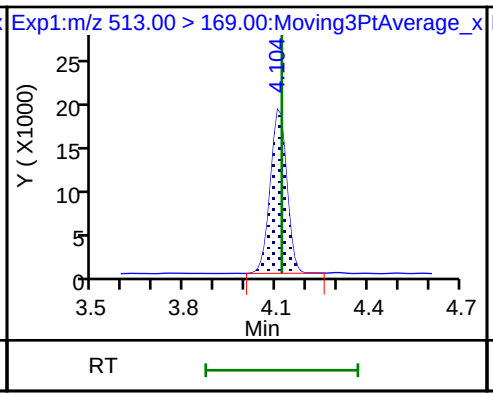
D 23 13C2 PFDA



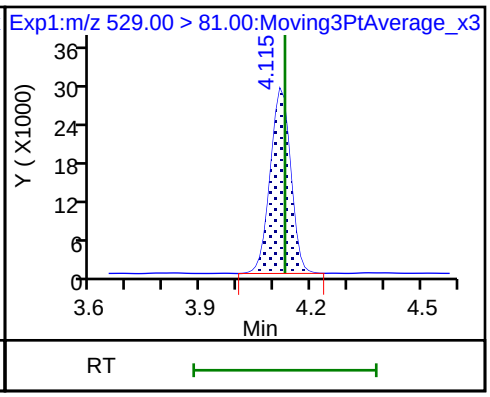
24 Perfluorodecanoic acid



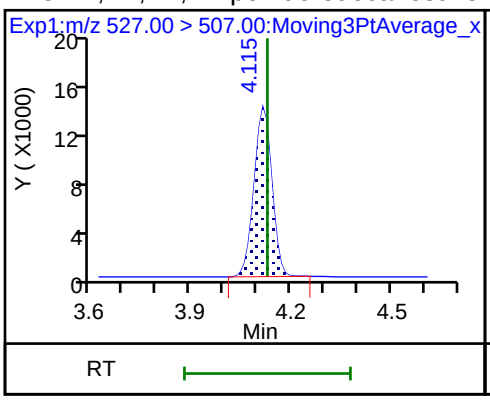
24 Perfluorodecanoic acid



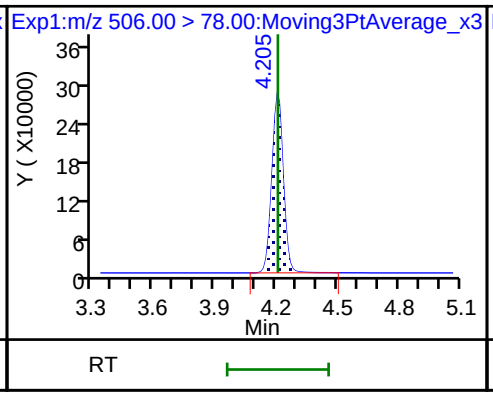
D 26 M2-8:2 FTS



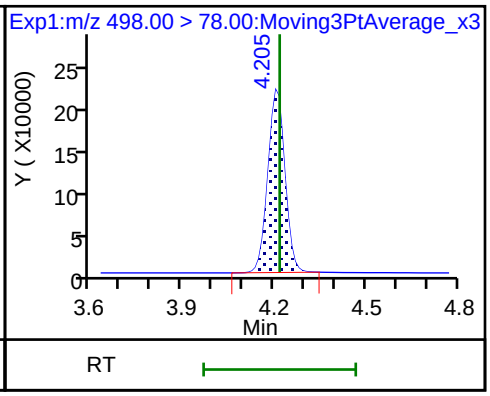
25 1H,1H,2H,2H-perfluorodecanesulfo



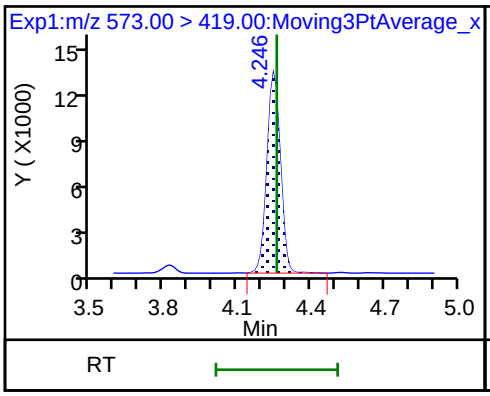
D 21 13C8 FOSA



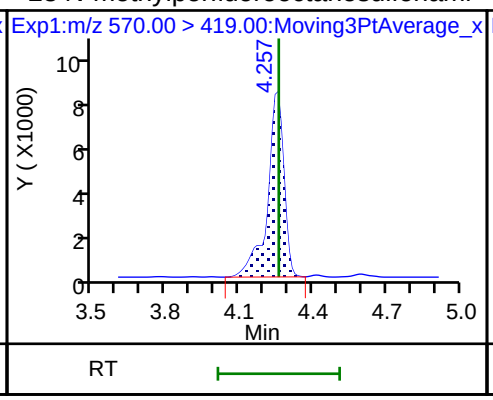
22 Perfluorooctanesulfonamide



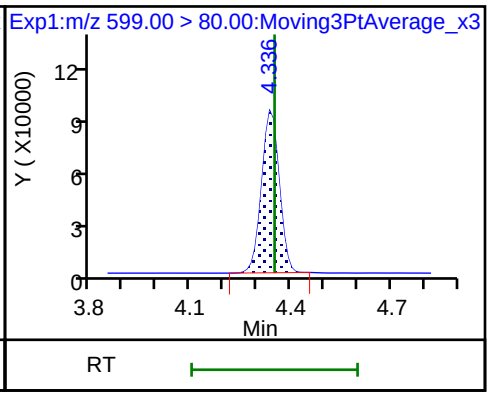
D 27 d3-NMeFOSAA



28 N-methylperfluorooctanesulfonami



29 Perfluorodecanesulfonic acid



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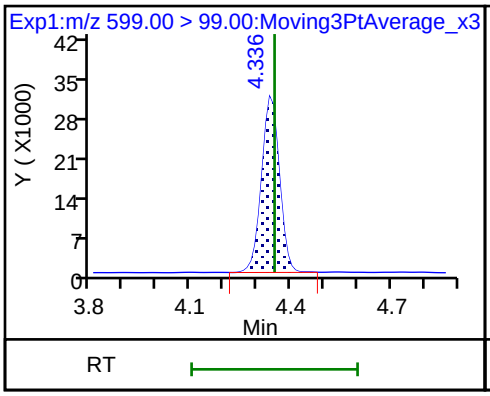
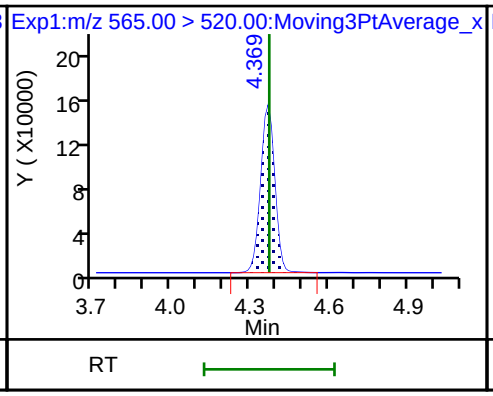
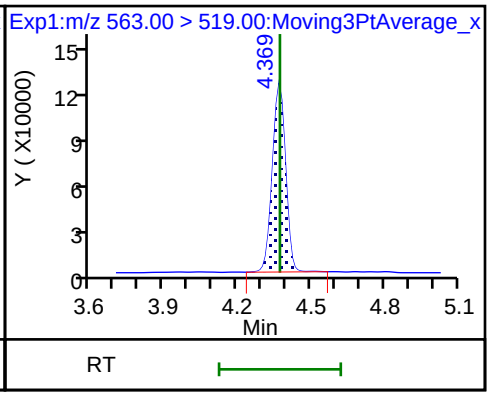


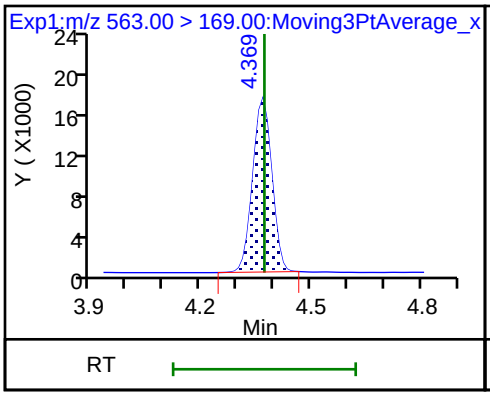
D 30 13C2 PFUnA



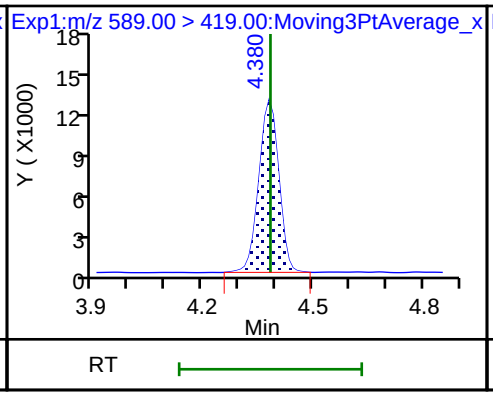
31 Perfluoroundecanoic acid



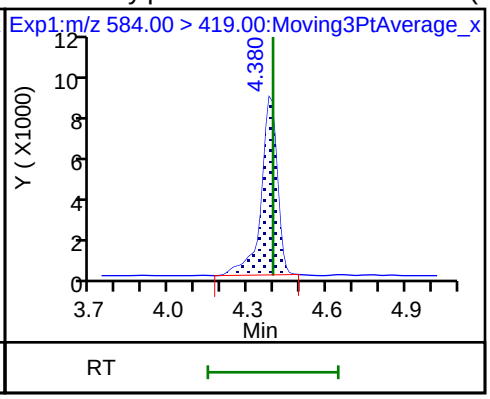
31 Perfluoroundecanoic acid



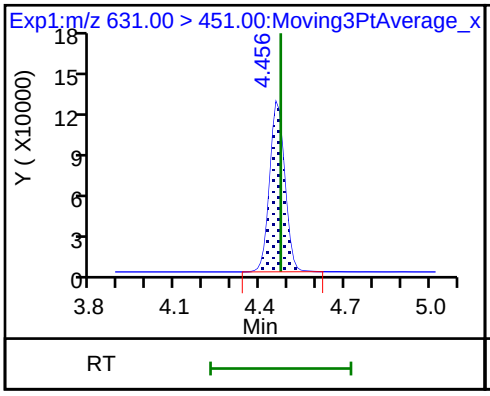
D 32 d5-NEtFOSAA



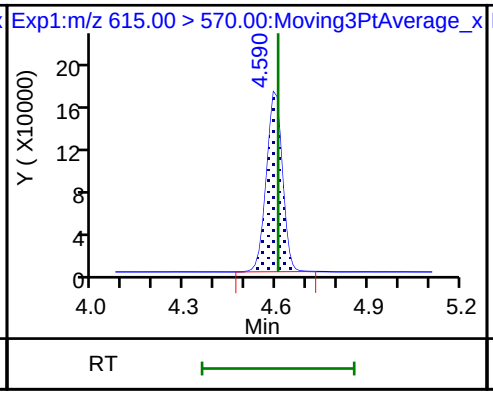
33 N-ethylperfluorooctanesulfonamid (M)



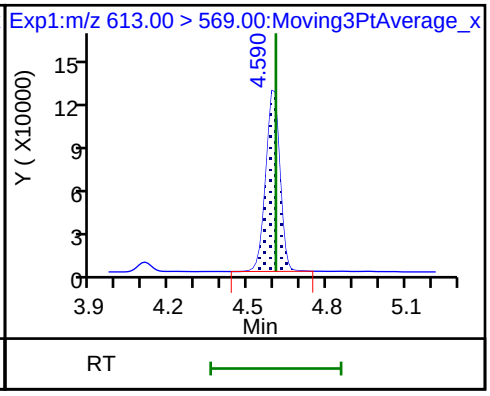
66 11-Chloroeicosafluoro-3-oxaundec



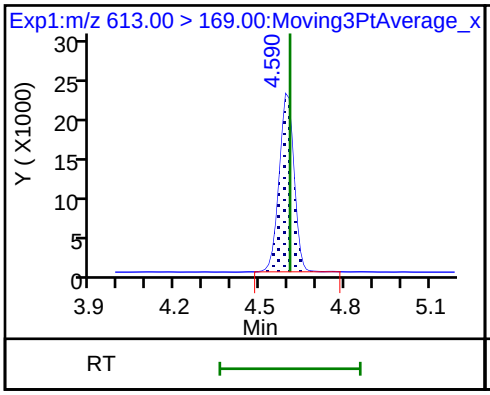
D 36 13C2 PFDoA



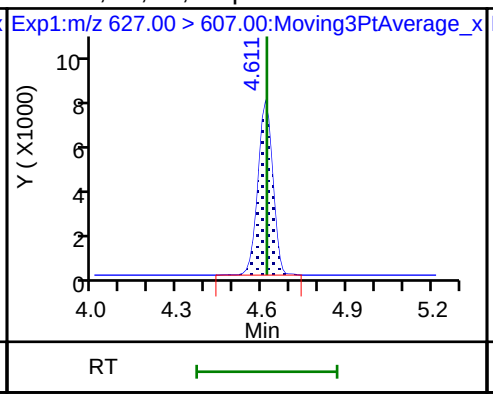
37 Perfluorododecanoic acid



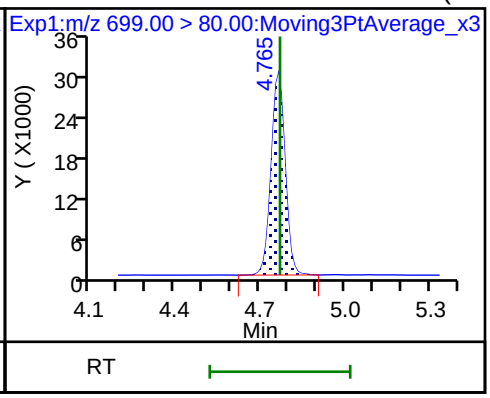
37 Perfluorododecanoic acid



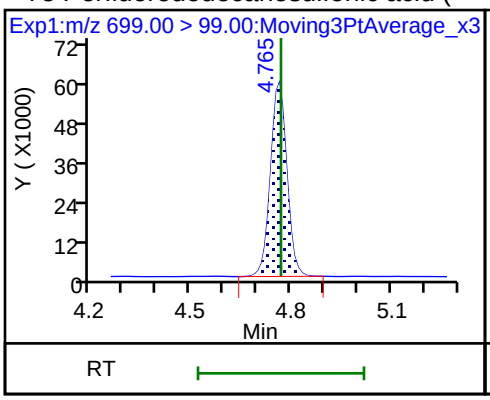
74 1H,1H,2H,2H-perfluorododecanesul



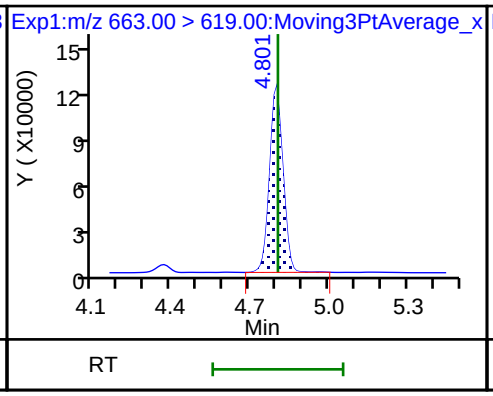
75 Perfluorododecanesulfonic acid (



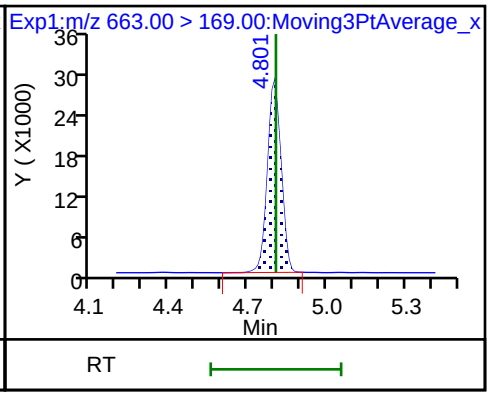
75 Perfluorododecanesulfonic acid (



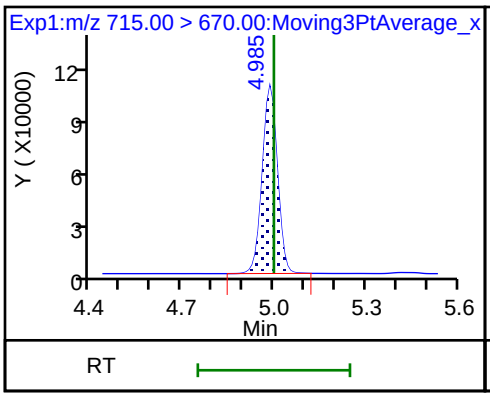
41 Perfluorotridecanoic acid



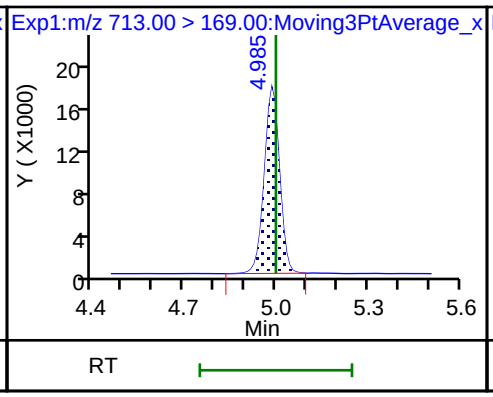
41 Perfluorotridecanoic acid



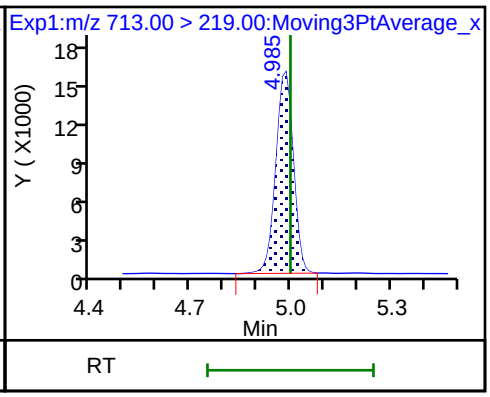
D 43 13C2 PFTeDA



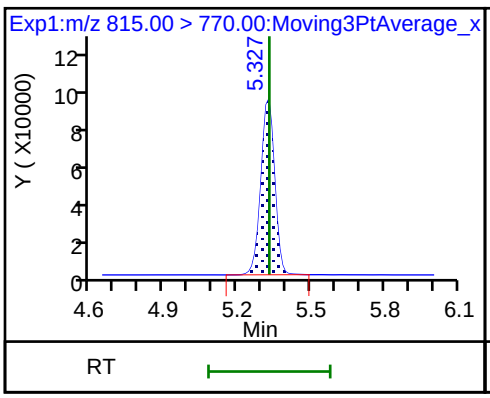
42 Perfluorotetradecanoic acid



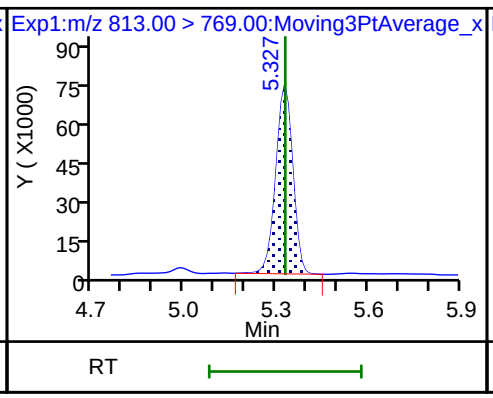
42 Perfluorotetradecanoic acid



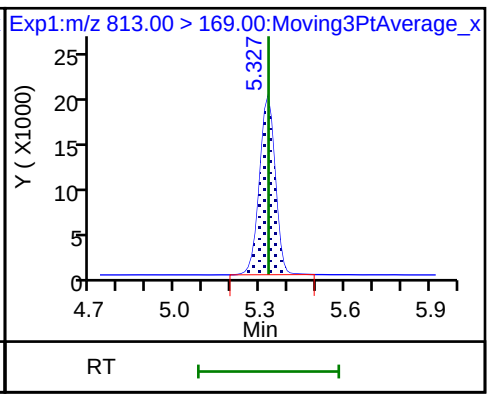
D 44 13C2 PFHxDA



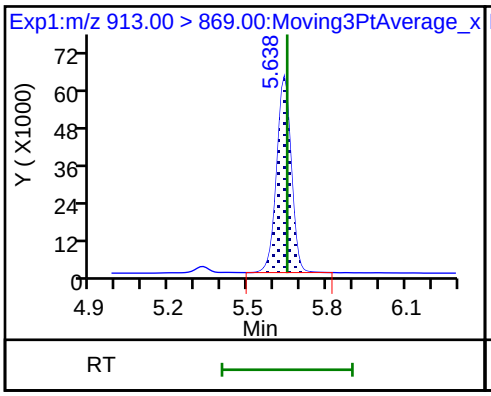
45 Perfluorohexadecanoic acid



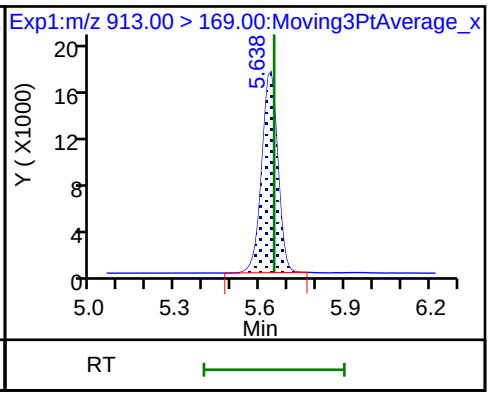
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

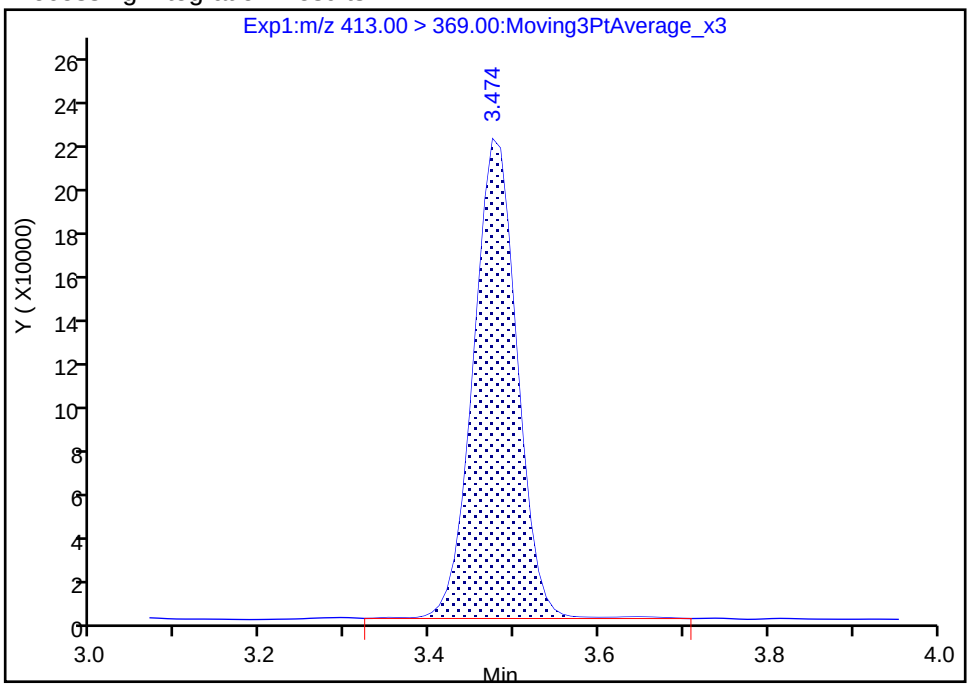
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A05.d				
Injection Date:	26-Feb-2021 13:19:31	Instrument ID:	LC812		
Lims ID:	LCS 200-164298/2-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

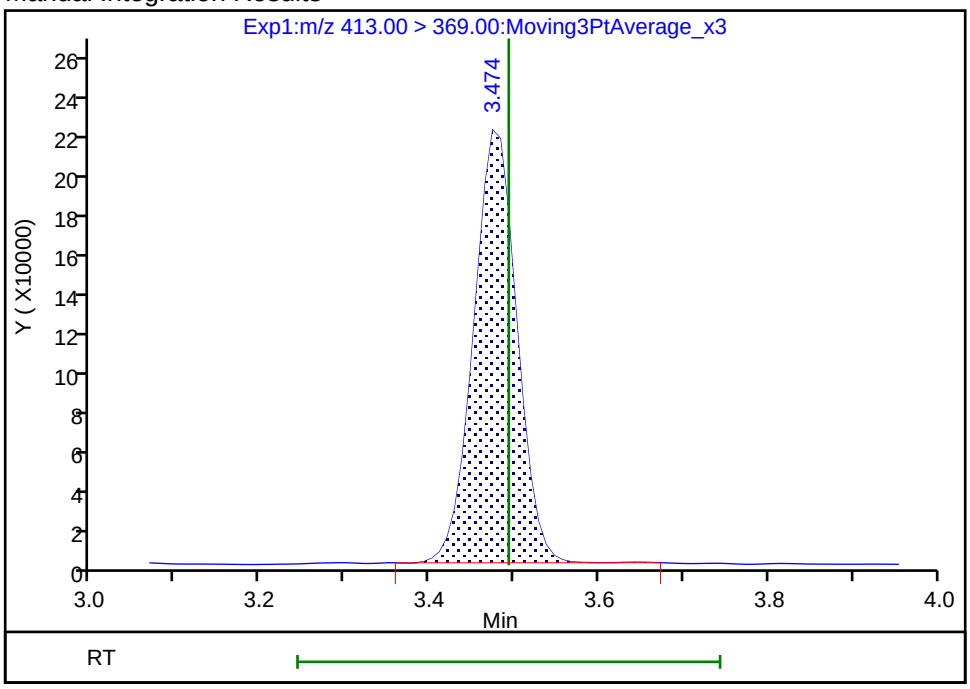
Processing Integration Results

RT: 3.47
Area: 781130
Amount: 0.932677
Amount Units: ng/ml



Manual Integration Results

RT: 3.47
Area: 772790
Amount: 0.922719
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:47:00

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

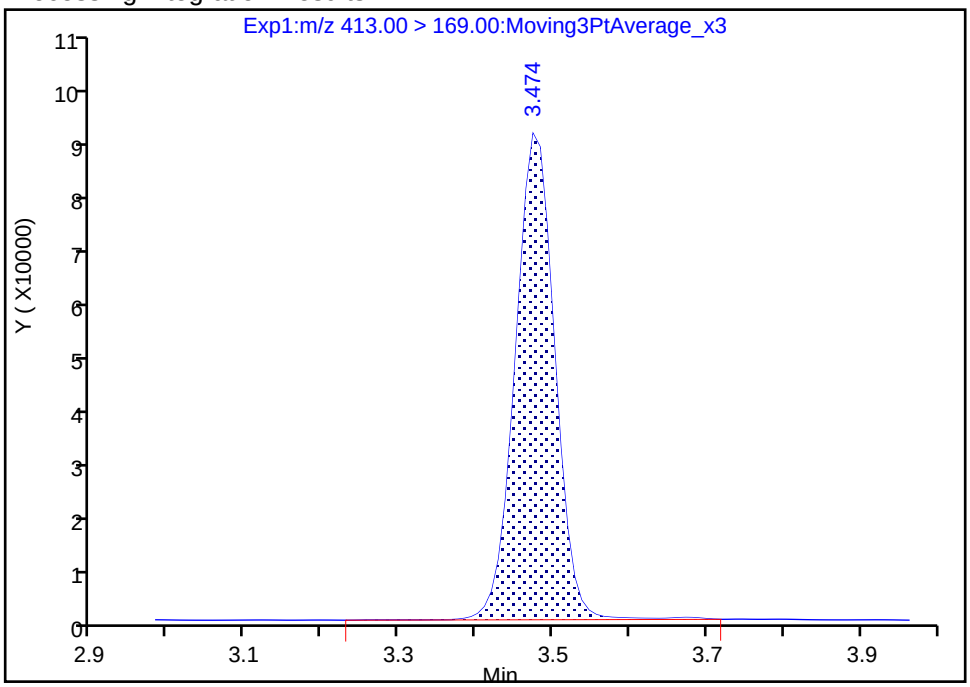
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A05.d				
Injection Date:	26-Feb-2021 13:19:31	Instrument ID:	LC812		
Lims ID:	LCS 200-164298/2-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

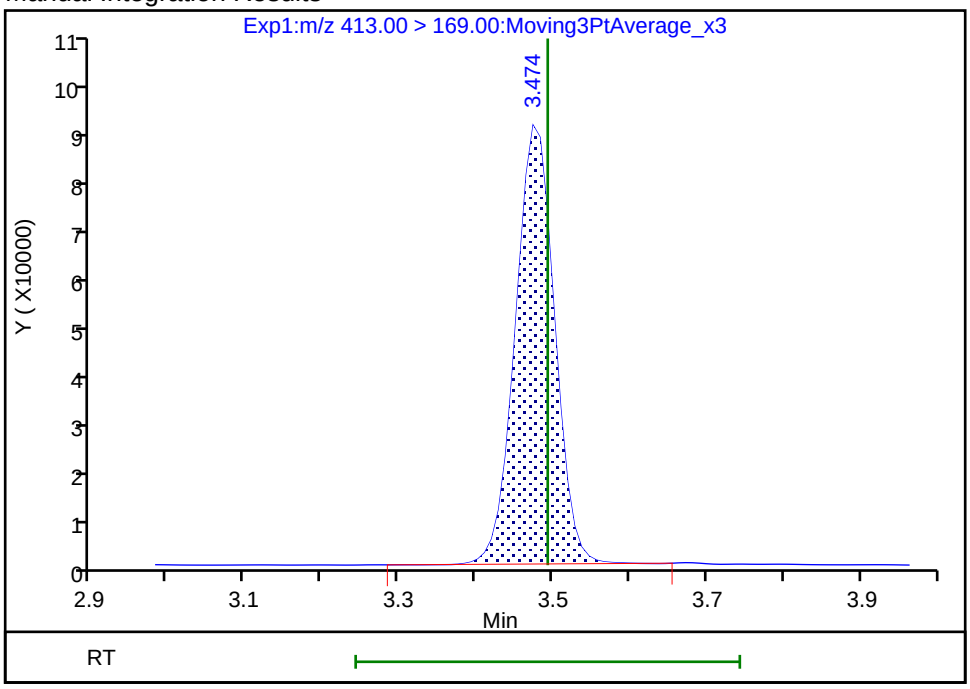
Processing Integration Results

RT: 3.47
Area: 313563
Amount: 0.932677
Amount Units: ng/ml



Manual Integration Results

RT: 3.47
Area: 309635
Amount: 0.922719
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:47:03

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

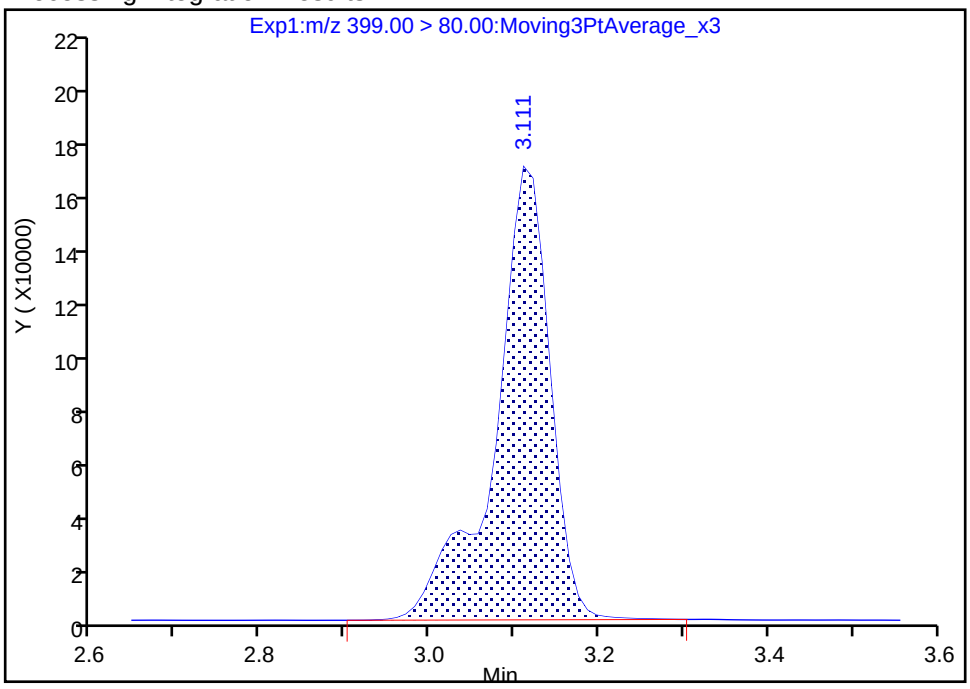
Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A05.d
Injection Date: 26-Feb-2021 13:19:31 Instrument ID: LC812
Lims ID: LCS 200-164298/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

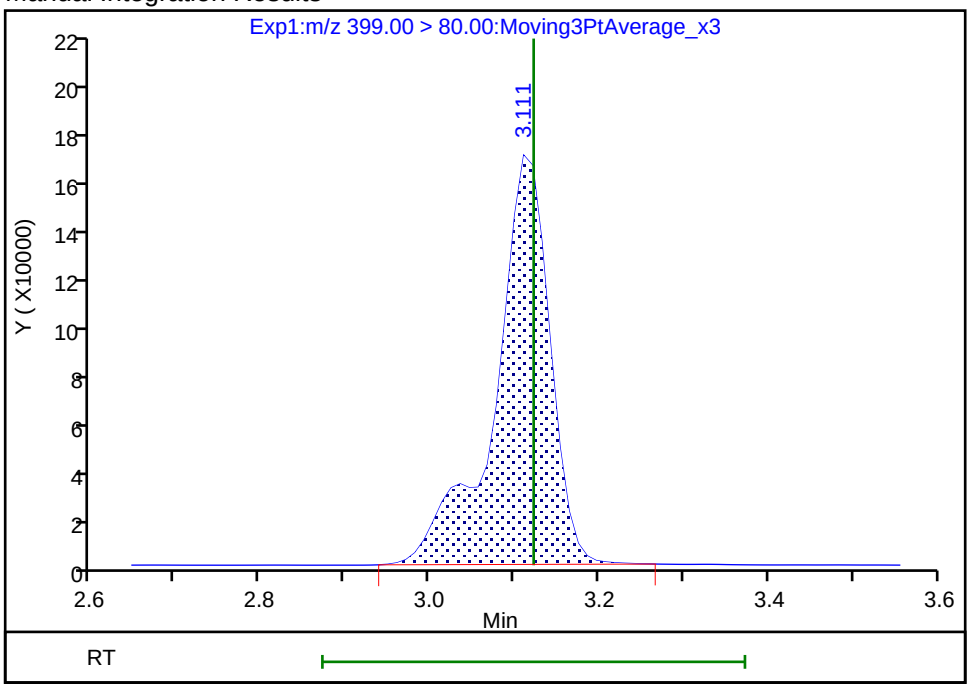
Processing Integration Results

RT: 3.11
Area: 745376
Amount: 0.856849
Amount Units: ng/ml



Manual Integration Results

RT: 3.11
Area: 742375
Amount: 0.853399
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:46:47
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

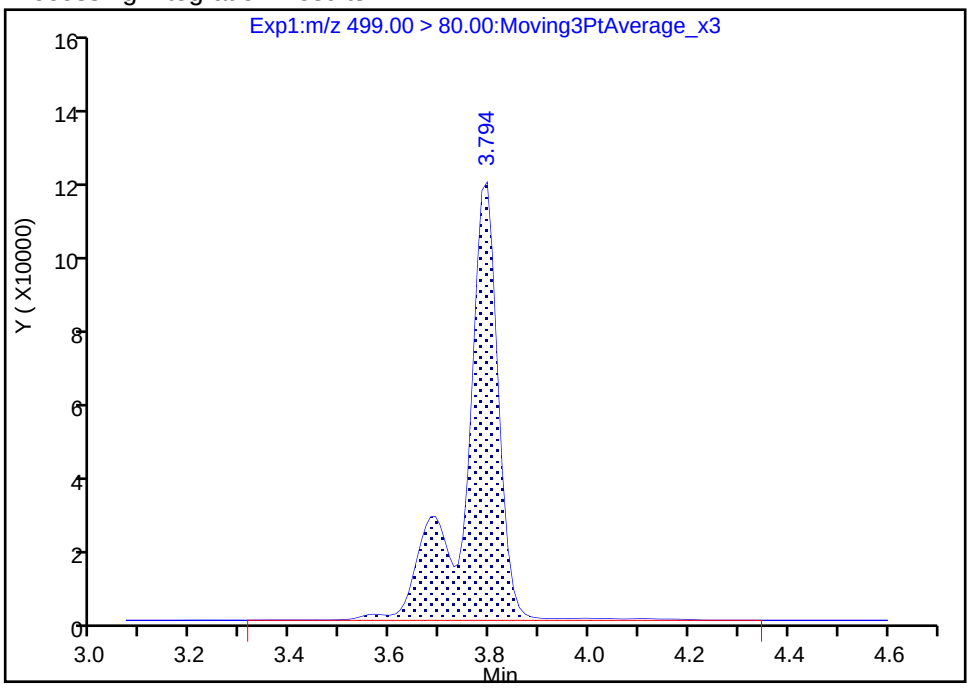
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A05.d				
Injection Date:	26-Feb-2021 13:19:31	Instrument ID:	LC812		
Lims ID:	LCS 200-164298/2-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

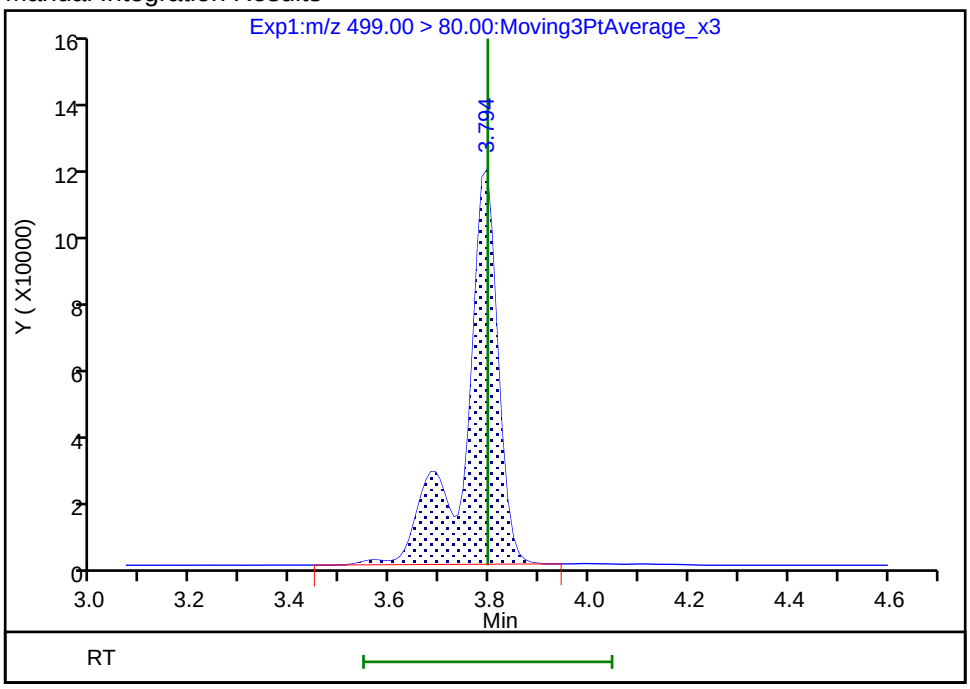
Processing Integration Results

RT: 3.79
Area: 550054
Amount: 0.922760
Amount Units: ng/ml



Manual Integration Results

RT: 3.79
Area: 537681
Amount: 0.902004
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:47:08

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

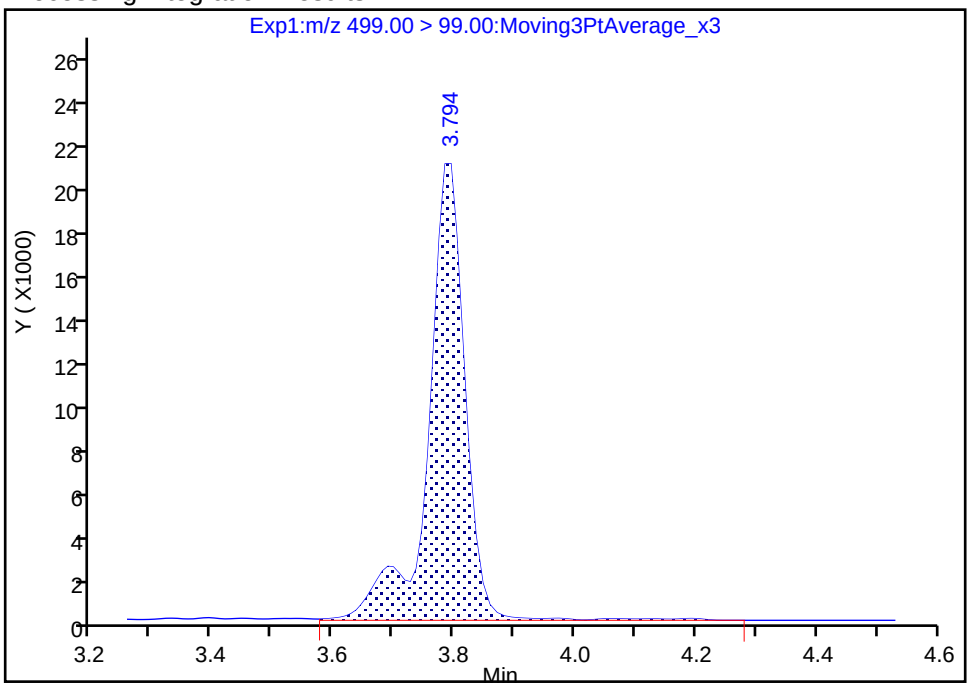
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A05.d				
Injection Date:	26-Feb-2021 13:19:31	Instrument ID:	LC812		
Lims ID:	LCS 200-164298/2-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

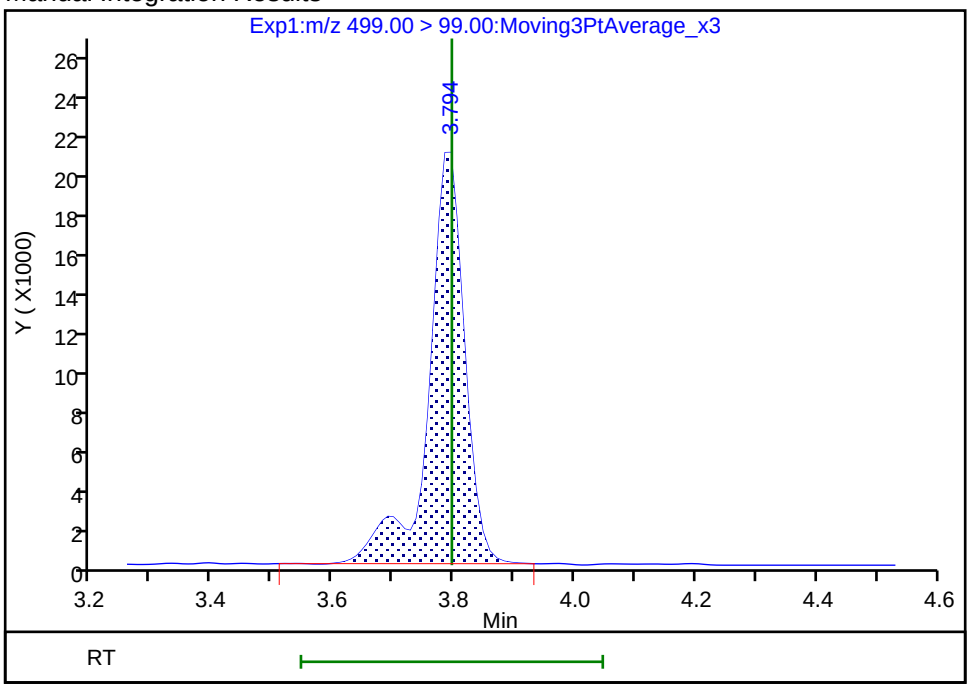
Processing Integration Results

RT: 3.79
Area: 88917
Amount: 0.922760
Amount Units: ng/ml



Manual Integration Results

RT: 3.79
Area: 86284
Amount: 0.902004
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:47:11

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

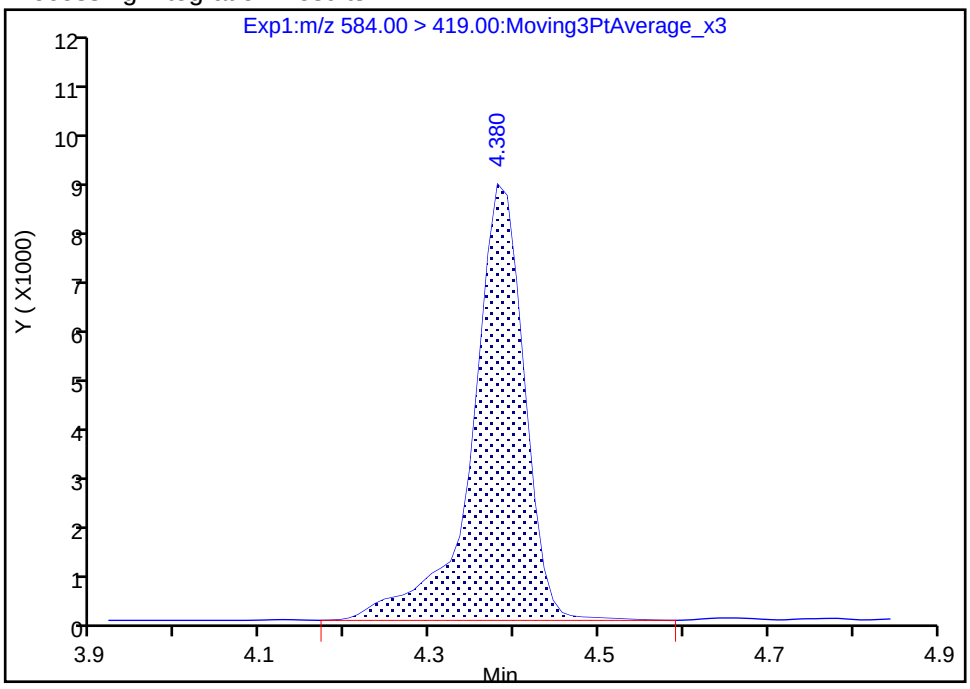
Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A05.d
Injection Date: 26-Feb-2021 13:19:31 Instrument ID: LC812
Lims ID: LCS 200-164298/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

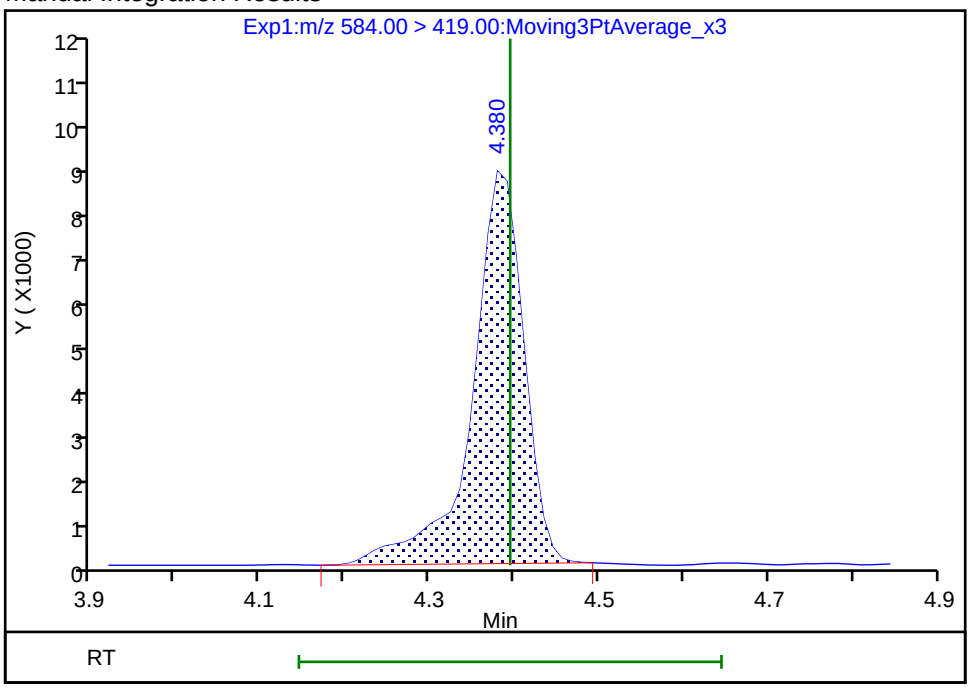
Processing Integration Results

RT: 4.38
Area: 36579
Amount: 1.035964
Amount Units: ng/ml



Manual Integration Results

RT: 4.38
Area: 35939
Amount: 1.017838
Amount Units: ng/ml



Reviewer: deannd, 26-Feb-2021 15:48:19
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12A (4-6) MS Lab Sample ID: 480-181249-3 MS

Matrix: Solid Lab File ID: PA210226A12.d

Analysis Method: 537 (modified) Date Collected: 02/12/2021 13:45

Extraction Method: SHAKE Date Extracted: 02/25/2021 15:08

Sample wt/vol: 5.18(g) Date Analyzed: 02/26/2021 14:17

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 20.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 164334 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	2.528		0.61	0.23
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.223		0.24	0.022
307-24-4	Perfluorohexanoic acid (PFHxA)	2.326		0.24	0.029
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.381		0.24	0.028
335-67-1	Perfluorooctanoic acid (PFOA)	2.342		0.24	0.017
375-95-1	Perfluorononanoic acid (PFNA)	2.365		0.24	0.024
335-76-2	Perfluorodecanoic acid (PFDA)	2.338		0.24	0.025
2058-94-8	Perfluoroundecanoic acid (PFUnA)	2.384		0.24	0.029
307-55-1	Perfluorododecanoic acid (PFDoA)	2.094		0.24	0.018
72629-94-8	Perfluorotridecanoic acid (PFTriA)	2.235		0.24	0.016
376-06-7	Perfluorotetradecanoic acid (PFTeA)	2.826		0.24	0.023
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.054		0.24	0.011
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.100		0.24	0.018
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	2.457		0.24	0.018
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.643		0.24	0.081
335-77-3	Perfluorodecanesulfonic acid (PFDS)	2.468		0.24	0.023
754-91-6	Perfluorooctanesulfonamide (PFOSA)	2.428		0.24	0.011
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.708		2.43	0.041
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.375	J	2.43	0.036
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	2.138	J	2.43	0.027
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	1.550	J	2.43	0.035

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12A (4-6) MS Lab Sample ID: 480-181249-3 MS

Matrix: Solid Lab File ID: PA210226A12.d

Analysis Method: 537 (modified) Date Collected: 02/12/2021 13:45

Extraction Method: SHAKE Date Extracted: 02/25/2021 15:08

Sample wt/vol: 5.18(g) Date Analyzed: 02/26/2021 14:17

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 20.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 164334 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	88		50-150
STL01892	13C4 PFHpA	98		50-150
STL00990	13C4 PFOA	95		50-150
STL00991	13C4 PFOS	81		50-150
STL00995	13C5 PFNA	89		50-150
STL00992	13C4 PFBA	84		25-150
STL00993	13C2 PFHxA	99		50-150
STL00996	13C2 PFDA	95		50-150
STL00997	13C2 PFUnA	97		50-150
STL00998	13C2 PFDoA	87		50-150
STL01056	13C8 FOSA	80		25-150
STL01893	13C5 PFPeA	90		25-150
STL02116	13C2 PFTeDA	76		50-150
STL02118	d3-NMeFOSAA	72		50-150
STL02117	d5-NEtFOSAA	98		50-150
STL02279	M2-6:2 FTS	104		25-150
STL02280	M2-8:2 FTS	134		25-150
STL02337	13C3 PFBS	87		50-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A12.d
Lims ID: 480-181249-A-3-B MS
Client ID: SB-12A (4-6)
Sample Type: MS
Inject. Date: 26-Feb-2021 14:17:32 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 480-181249-A-3-B MS
Misc. Info.: 200-0044972-012 Plate: 1 Rack: 2
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 01-Mar-2021 10:52:47 Calib Date: 22-Dec-2020 13:29:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1604

First Level Reviewer: khanphomeea Date: 01-Mar-2021 10:07:04
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.082	2.082	0.0	0.598	1089198	1.06		84.5	5862	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.082	2.082	0.0	1.000	909540	1.04		104	164	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.401	2.401	0.0	0.689	834220	1.12		89.5	1987	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.401	2.401	0.0	1.000	677007	0.9161		91.6	30.4	
D 47 13C3 PFBS										M
301.90 > 80.00	2.414	2.427	-0.013	0.693	996932	1.02		87.4	60641	M
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.427	2.427	0.0	1.005	821316	0.8466	Target=2.21	95.8	350	
298.90 > 99.00	2.427	2.427	0.0	1.005	357170		2.30(1.11-3.32)		76.0	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.723	2.723	0.0	0.781	119861	1.46		125	54.3	M
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.723	2.723	0.0	1.000	163450	0.8682		93.0	145	
D 7 13C2 PFHxA										
315.00 > 270.00	2.759	2.759	0.0	0.792	970650	1.24		99.4	3915	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.759	2.759	0.0	1.000	813090	0.9585	Target=12.83	95.8	113	M
313.00 > 119.00	2.759	2.759	0.0	1.000	72169		11.27(6.42-19.25)		58.1	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.759	2.771	-0.012	0.884	748019	0.8847	Target=3.35	94.3	417	
349.00 > 99.00	2.759	2.771	-0.012	0.884	213471		3.50(1.67-5.02)		212	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.869	2.869	0.0	0.823	87723	0.6377		51.0	813	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.869	2.869	0.0	1.000	130118	1.34		134	42.4	M
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.123	3.123	-0.001	1.000	656965	0.8652	Target=4.15	95.1	458	M
399.00 > 99.00	3.123	3.123	-0.001	1.000	157057		4.18(2.08-6.23)		128	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.123	3.123	-0.001	0.896	761874	1.04		88.2	2686	
D 9 13C4 PFHpA										
367.00 > 322.00	3.123	3.133	-0.011	0.896	918574	1.23		98.3	4121	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.133	3.133	0.0	1.003	787449	0.9811	Target=3.66	98.1	123	
363.00 > 169.00	3.133	3.133	0.0	1.003	219961		3.58(1.83-5.49)		464	
77 DONA										
377.00 > 251.00	3.165	3.165	0.0	0.834	1391094	1.03	Target=2.43	109	1939	
377.00 > 85.00	3.165	3.165	0.0	0.834	603587		2.30(1.22-3.65)		778	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.475	3.475	0.0	0.915	553543	1.01	Target=5.95	106	770	
449.00 > 99.00	3.475	3.475	0.0	0.915	97962		5.65(2.98-8.93)		202	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.475	3.475	0.0	0.997	112590	1.24		104	153	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.475	3.475	0.0	1.000	92939	0.8812		93.0	1181	
D 14 13C4 PFOA										
417.00 > 372.00	3.484	3.484	0.0	1.000	897763	1.18		94.5	4063	
* 62 13C2 PFOA										
415.00 > 370.00	3.484	3.484	0.0		959575	1.25			1467	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.484	3.493	-0.009	1.000	751375	0.9651	Target=2.58	96.5	192	
413.00 > 169.00	3.484	3.493	-0.009	1.000	306271		2.45(1.29-3.87)		687	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.796	3.796	0.0	1.000	507257	1.09	Target=5.65	117	448	M
499.00 > 99.00	3.796	3.796	0.0	1.000	89058		5.70(2.82-8.47)		154	M
D 18 13C4 PFOS										
503.00 > 80.00	3.796	3.796	0.0	1.090	483841	0.9655		80.8	722	
D 19 13C5 PFNA										
468.00 > 423.00	3.816	3.816	0.0	1.095	746052	1.11		89.1	2076	
20 Perfluorononanoic acid										
463.00 > 419.00	3.816	3.816	0.0	1.000	643752	0.9745	Target=7.44	97.4	78.9	
463.00 > 169.00	3.816	3.816	0.0	1.000	97160		6.63(3.72-11.16)		390	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.957	3.957	0.0	1.043	427780	0.8234		88.3	1445	
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.084	4.084	0.0	1.076	356671	1.03	Target=2.54	107	720	M
549.00 > 99.00	4.084	4.084	0.0	1.076	123229		2.89(1.27-3.81)		231	
D 23 13C2 PFDA										
515.00 > 470.00	4.118	4.118	0.0	1.182	757801	1.18		94.6	2531	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.118	4.118	0.0	1.000	601890	0.9634	Target=9.29	96.3	39.2	M
513.00 > 169.00	4.118	4.118	0.0	1.000	73787		8.16(4.64-13.93)		401	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.118	4.129	-0.011	1.182	150441	1.60		134	303	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.118	4.129	-0.011	1.000	54589	0.6389		66.7	697	M
D 21 13C8 FOSA										
506.00 > 78.00	4.217	4.207	0.010	1.210	942530	1.00		80.1	2329	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.217	4.217	0.0	1.000	756234	1.00		100	1652	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.260	4.260	0.0	1.223	41728	0.8979		71.8	281	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.260	4.260	0.0	1.000	33019	1.12		112	258	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.351	4.350	0.0	1.146	281651	1.02	Target=2.80	105	661	M
599.00 > 99.00	4.351	4.350	0.0	1.146	102932		2.74(1.40-4.19)		331	
D 30 13C2 PFUnA										
565.00 > 520.00	4.373	4.373	0.0	1.255	636723	1.21		96.8	3599	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.373	4.373	0.0	1.000	510422	0.9826	Target=8.12	98.3	236	
563.00 > 169.00	4.373	4.373	0.0	1.000	64872		7.87(4.06-12.18)		597	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.384	4.384	0.0	1.258	55094	1.23		98.1	746	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.395	4.395	0.0	1.003	39929	0.9786		97.9	408	
66 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.473	4.473	0.0	1.178	388004	0.7197		76.4	2180	
D 36 13C2 PFDoA										
615.00 > 570.00	4.606	4.606	0.0	1.322	603936	1.09		87.0	4309	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.606	4.606	0.0	1.000	458619	0.8631	Target=6.91	86.3	139	
613.00 > 169.00	4.606	4.606	0.0	1.000	77819		5.89(3.45-10.36)		713	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.616	4.616	0.0	1.121	28839	0.6556		68.0	743	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.779	4.770	0.009	1.259	99047	0.9720	Target=0.51	100	307	
699.00 > 99.00	4.779	4.770	0.009	1.259	195742		0.51(0.26-0.77)		782	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.806	4.806	0.0	1.043	397249	0.9212	Target=4.39	92.1	144	
663.00 > 169.00	4.806	4.806	0.0	1.043	89088		4.46(2.20-6.59)		751	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.998	4.998	0.0	1.435	389093	0.9469		75.8	1465	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.998	4.998	0.0	1.000	67229	1.16	Target=1.06	116	923	
713.00 > 219.00	4.989	4.998	-0.009	0.998	57356		1.17(0.53-1.59)		844	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.329	5.329	0.0	1.530	394632	0.8990		71.9	2228	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.340	5.329	0.011	1.002	298782	1.00	Target=3.84	100	144	
813.00 > 169.00	5.340	5.329	0.011	1.002	80331		3.72(1.92-5.76)		941	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.649	5.649	0.0	1.060	270439	0.9521	Target=3.92	95.2	304	
913.00 > 169.00	5.649	5.649	0.0	1.060	79259		3.41(1.96-5.88)		753	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Report Date: 01-Mar-2021 10:53:17 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A12.d

Injection Date: 26-Feb-2021 14:17:32 Instrument ID: LC812

Lims ID: 480-181249-A-3-B MS

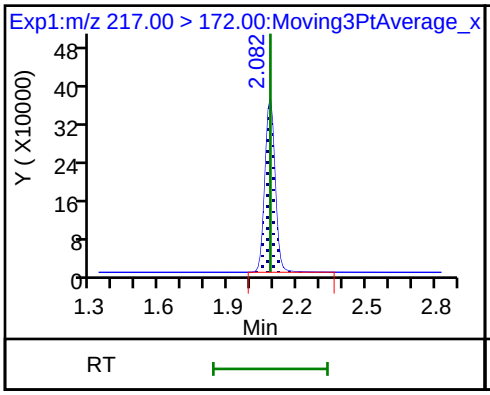
Client ID: SB-12A (4-6)

Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 12

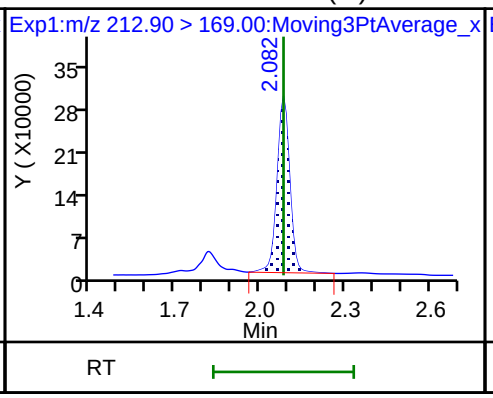
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

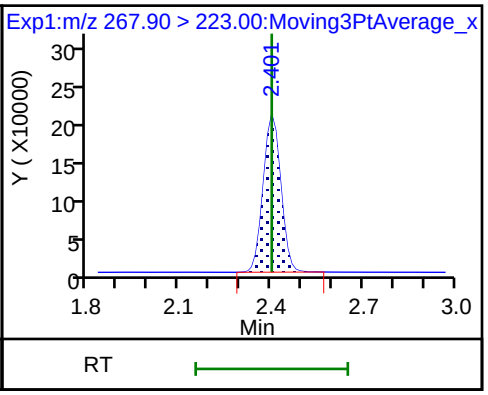
D 1 13C4 PFBA



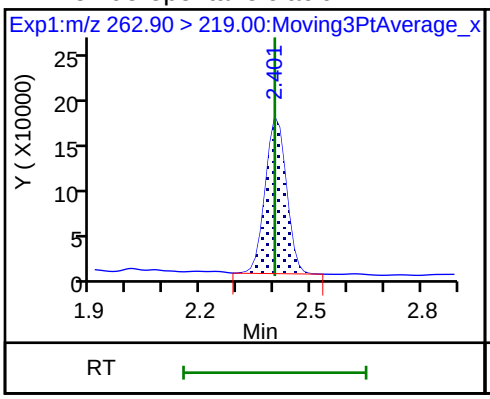
2 Perfluorobutanoic acid (M)



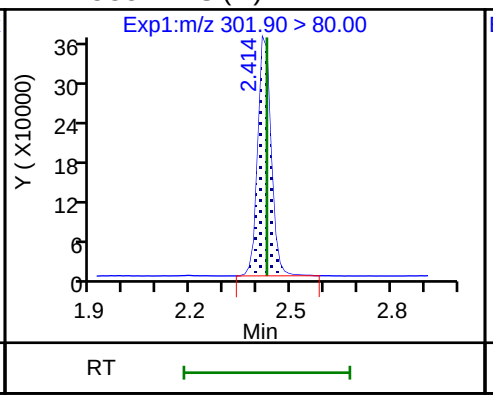
D 3 13C5 PFPeA



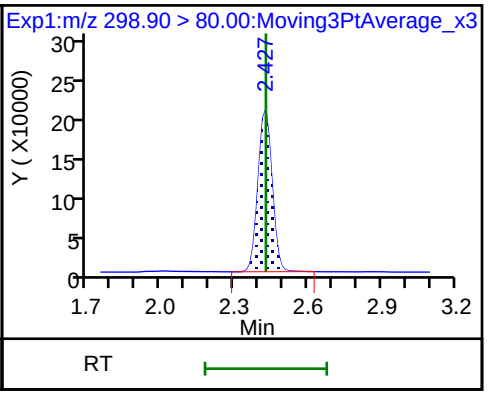
4 Perfluoropentanoic acid



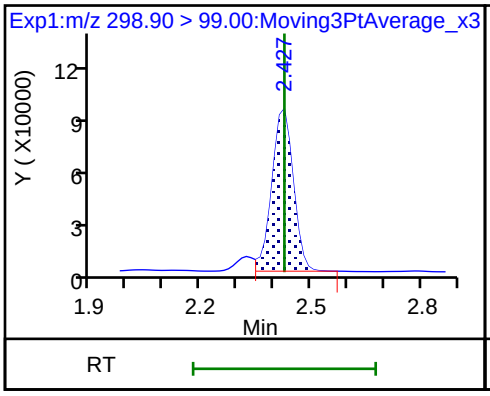
D 47 13C3 PFBS (M)



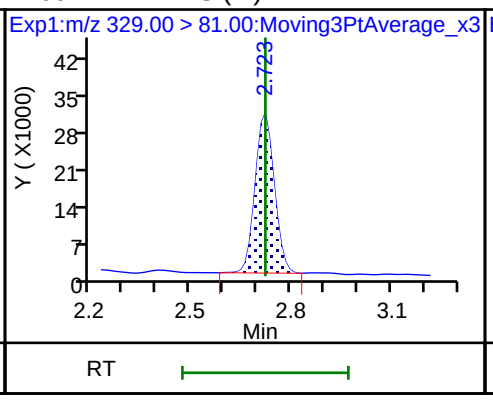
5 Perfluorobutanesulfonic acid



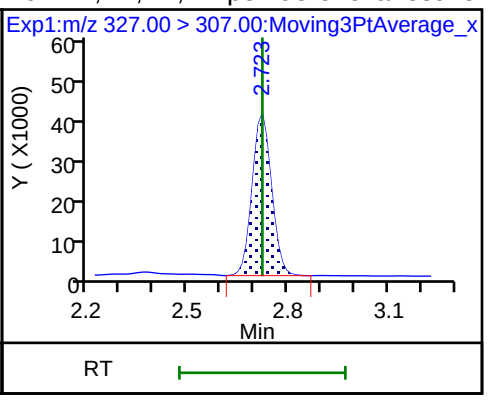
5 Perfluorobutanesulfonic acid



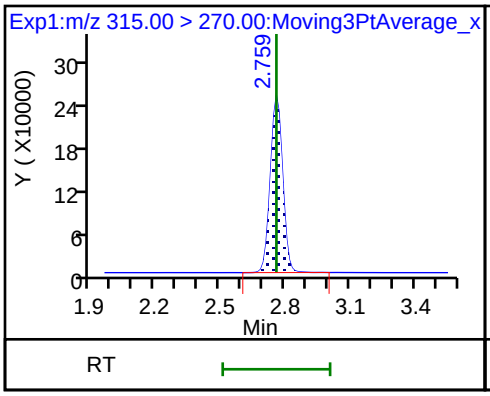
D 60 M2-4:2 FTS (M)



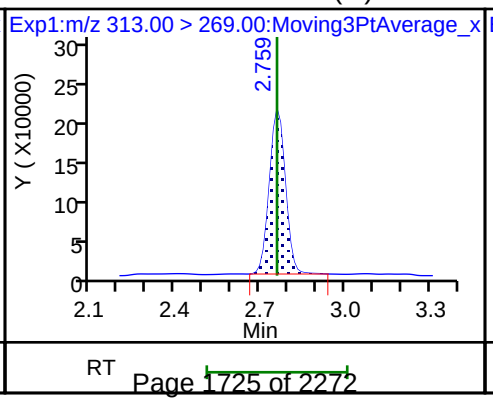
61 1H,1H,2H,2H-perfluorohexanesulfo



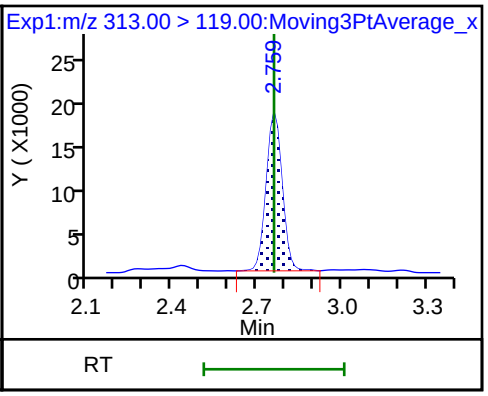
D 7 13C2 PFHxA



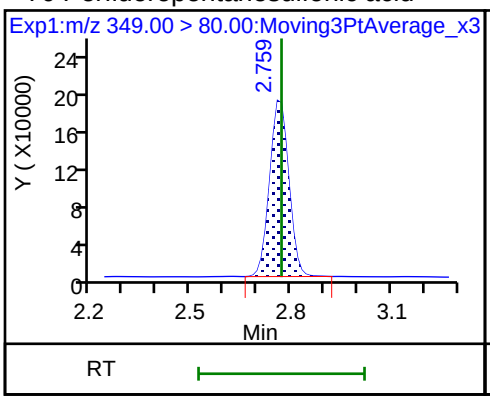
6 Perfluorohexanoic acid (M)



6 Perfluorohexanoic acid



70 Perfluoropentanesulfonic acid



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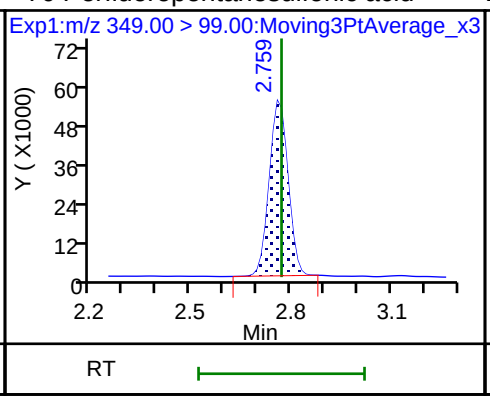
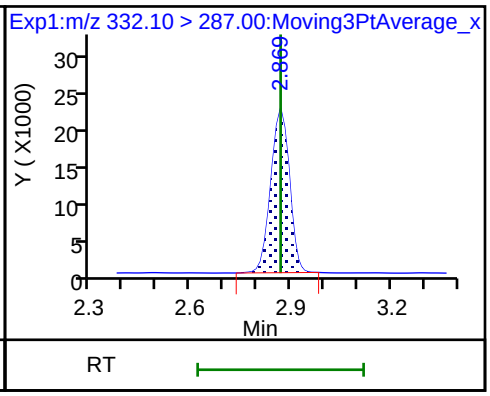
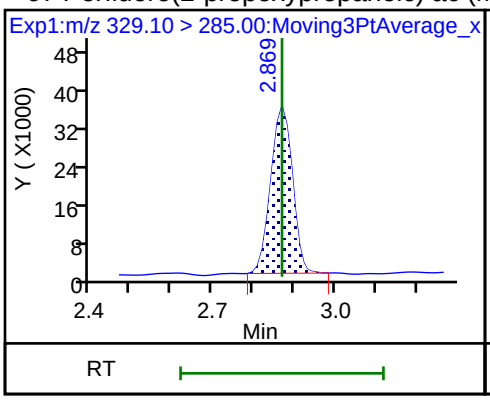


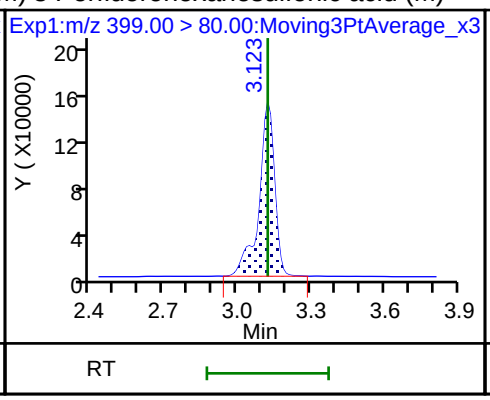
D 64 13C3 HFPO-DA



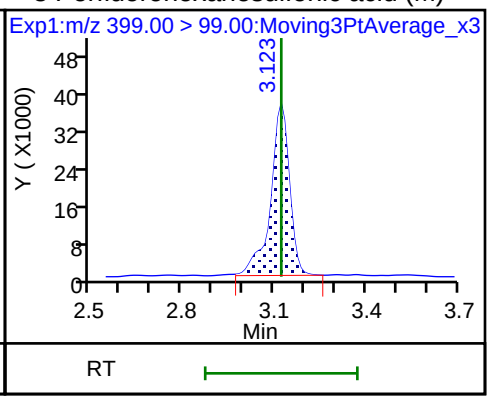
67 Perfluoro(2-propoxypropanoic) ac (M)



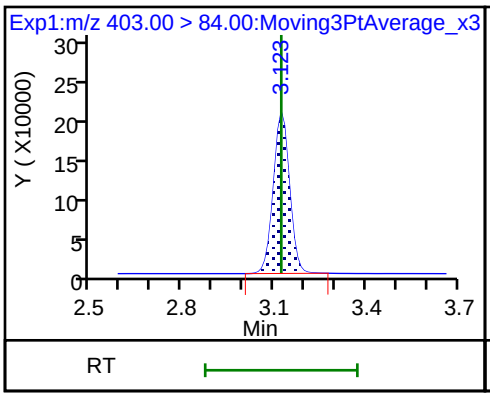
8 Perfluorohexanesulfonic acid (M)



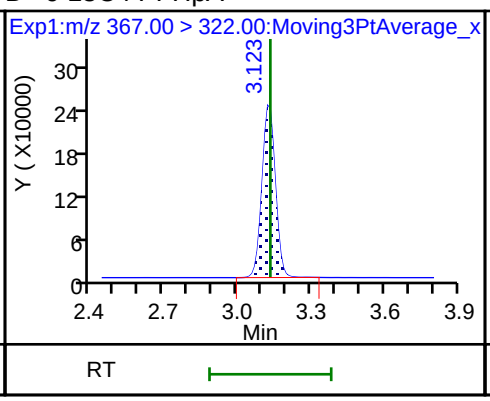
8 Perfluorohexanesulfonic acid (M)



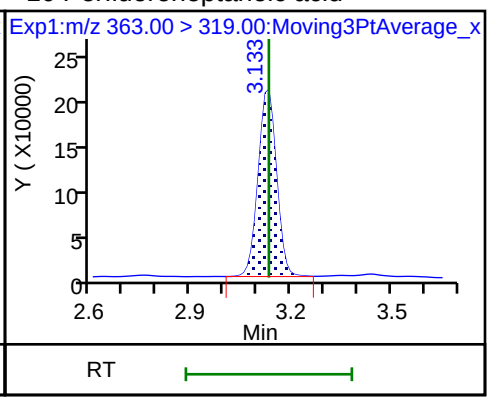
D 11 18O2 PFHxS



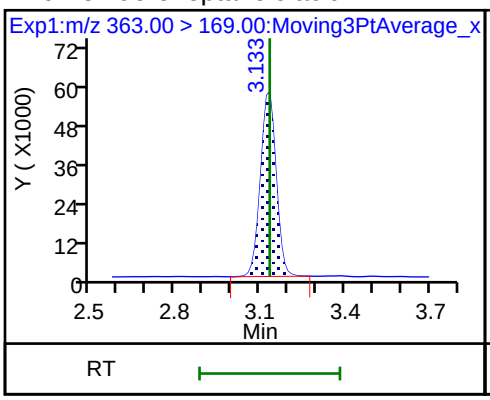
D 9 13C4 PFHpA



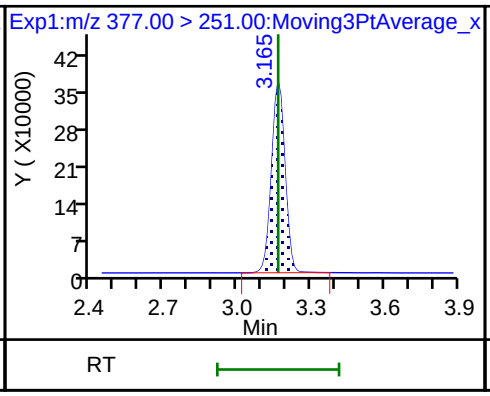
10 Perfluoroheptanoic acid



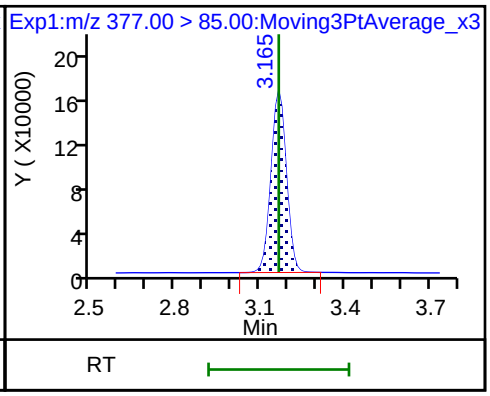
10 Perfluoroheptanoic acid



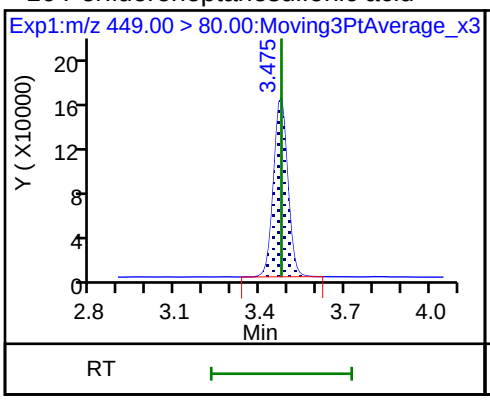
77 DONA



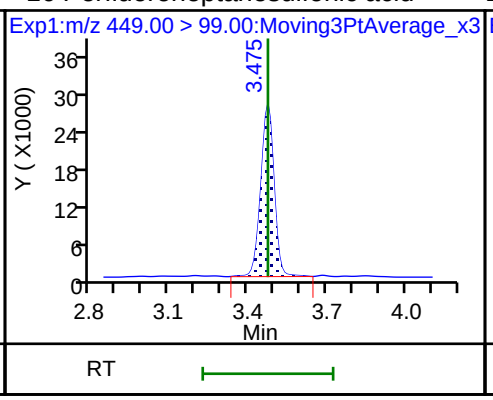
77 DONA



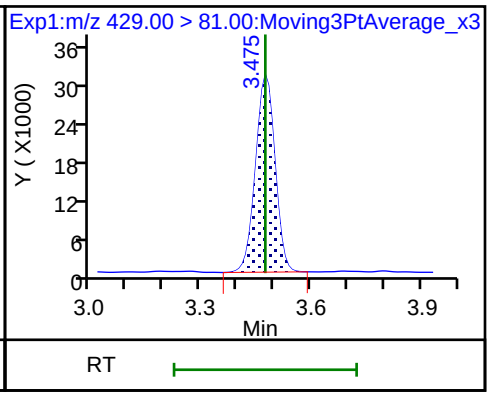
16 Perfluoroheptanesulfonic acid



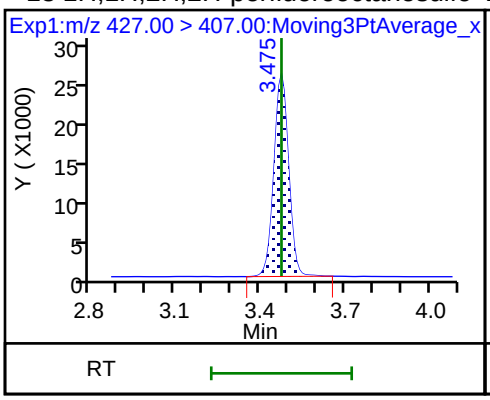
16 Perfluoroheptanesulfonic acid



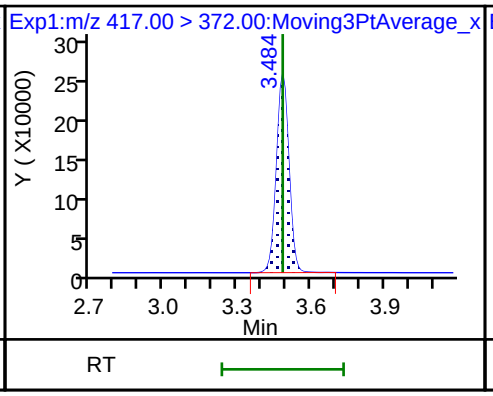
D 12 M2-6:2 FTS



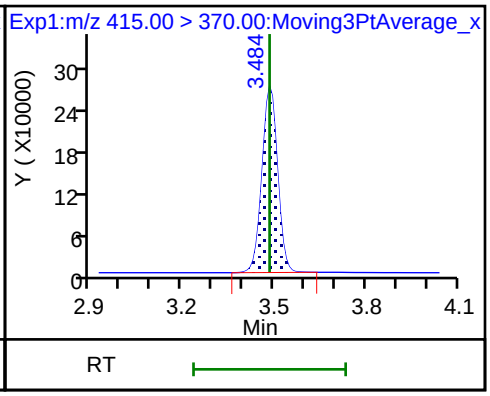
13 1H,1H,2H,2H-perfluorooctanesulfo



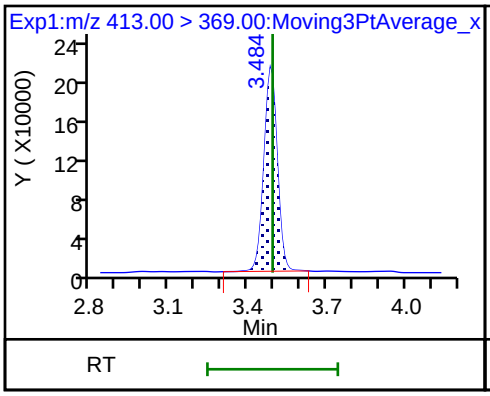
D 14 13C4 PFOA



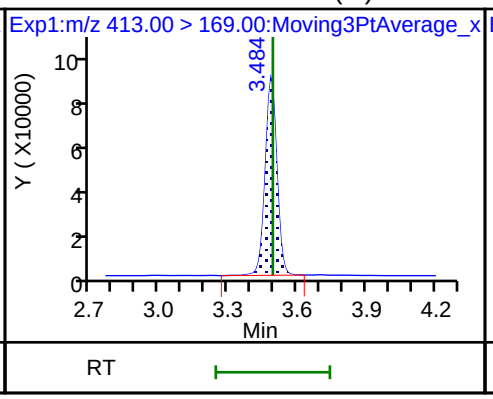
* 62 13C2 PFOA



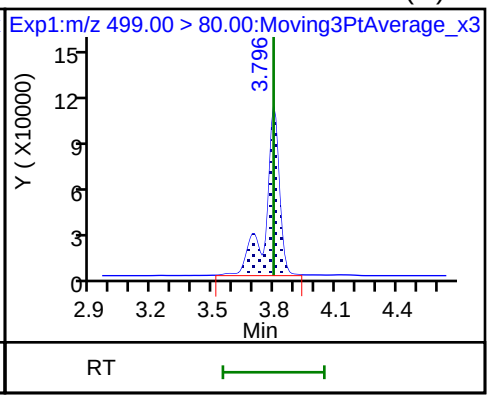
15 Perfluorooctanoic acid



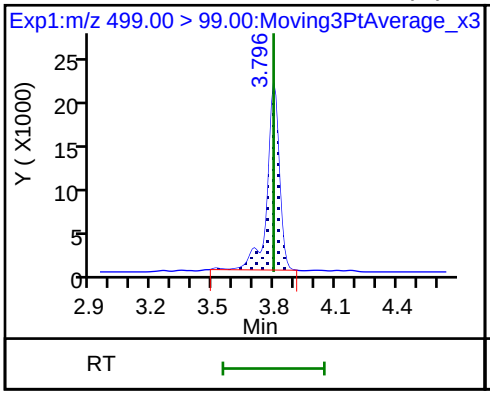
15 Perfluorooctanoic acid (M)



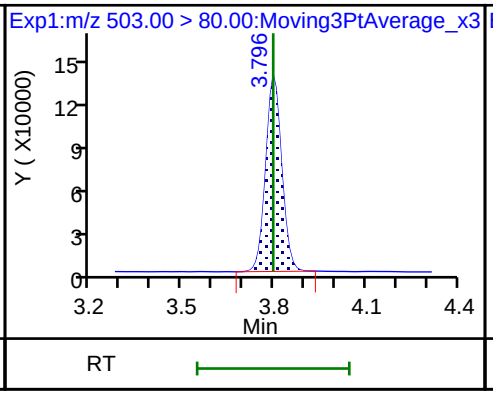
17 Perfluorooctanesulfonic acid (M)



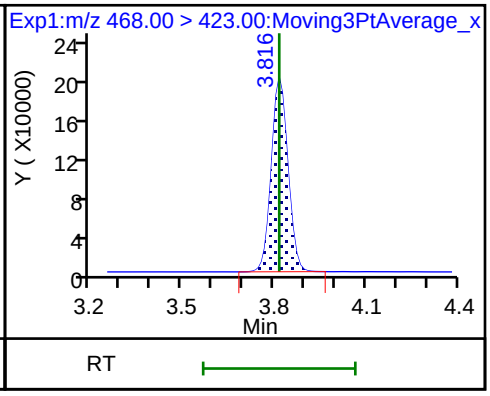
17 Perfluorooctanesulfonic acid (M)



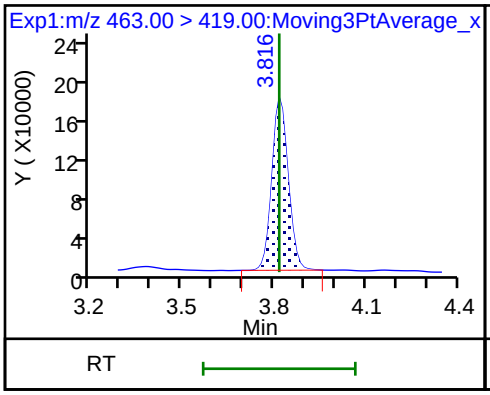
D 18 13C4 PFOS



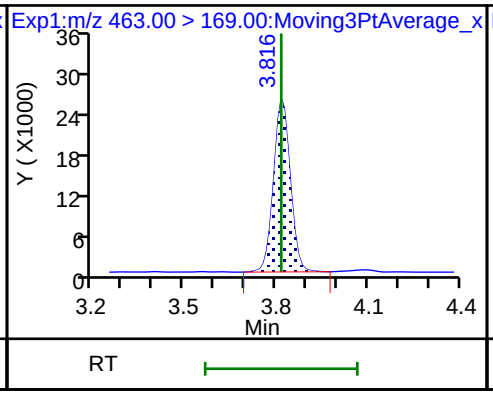
D 19 13C5 PFNA



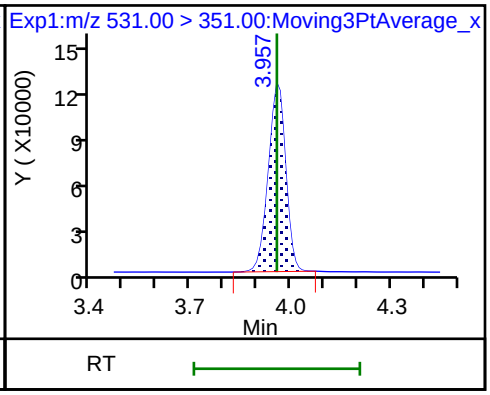
20 Perfluorononanoic acid



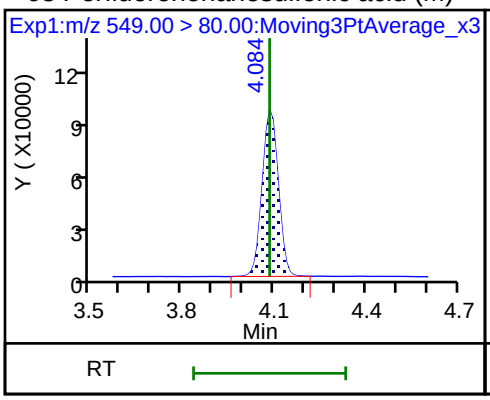
20 Perfluorononanoic acid



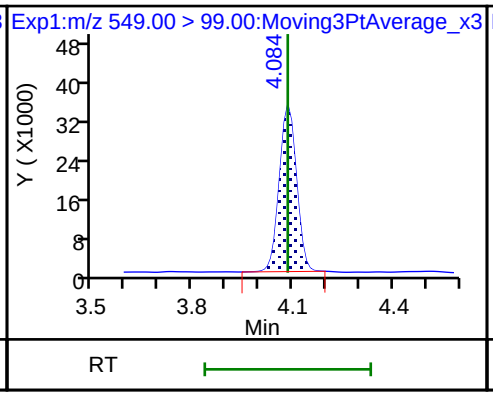
69 9-Chlorohexadecafluoro-3-oxanona



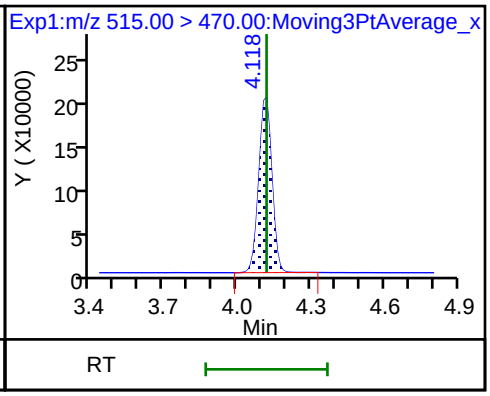
68 Perfluorononanesulfonic acid (M)



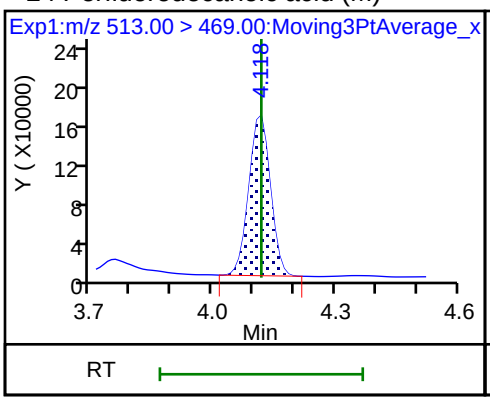
68 Perfluorononanesulfonic acid



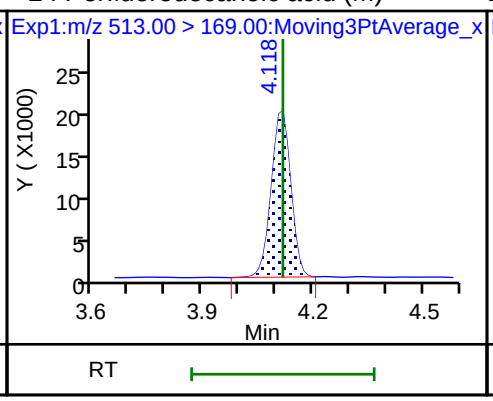
D 23 13C2 PFDA



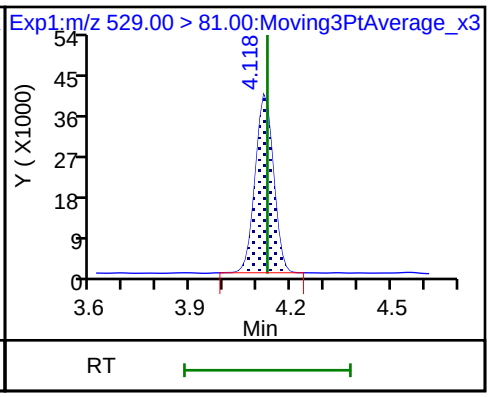
24 Perfluorodecanoic acid (M)



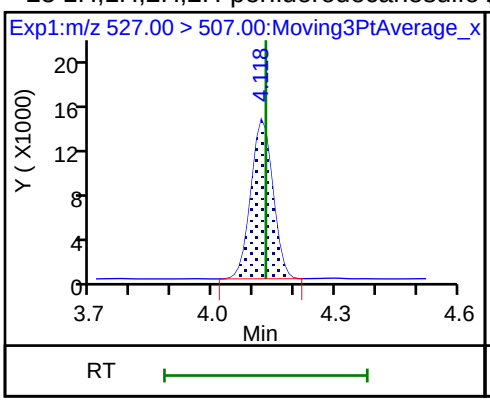
24 Perfluorodecanoic acid (M)



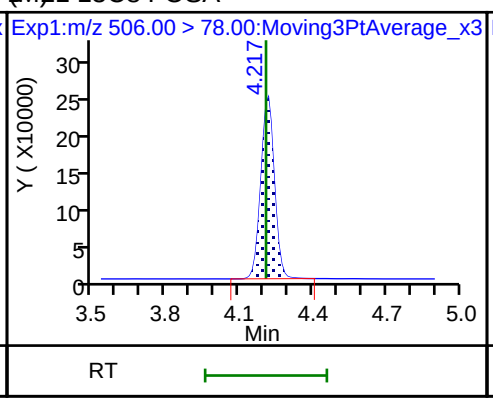
D 26 M2-8:2 FTS



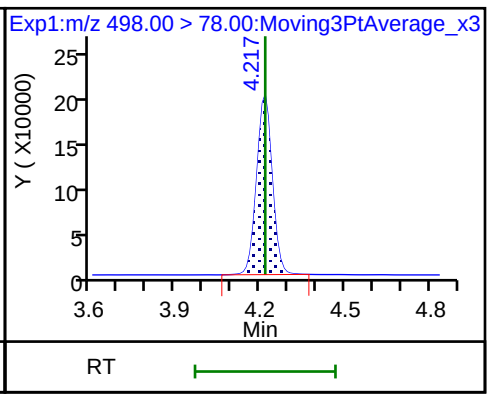
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



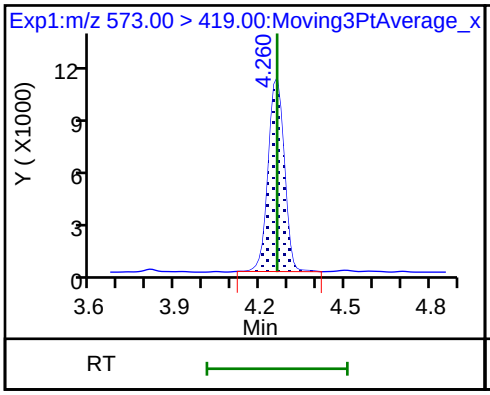
D 21 13C8 FOSA



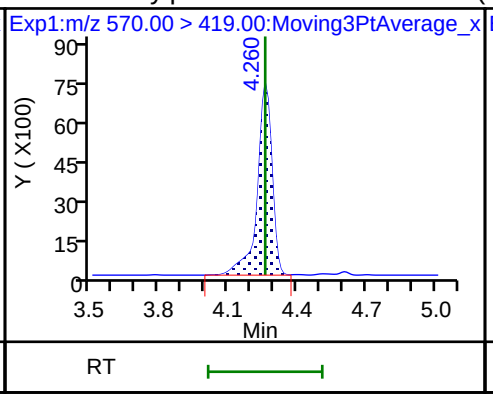
22 Perfluorooctanesulfonamide



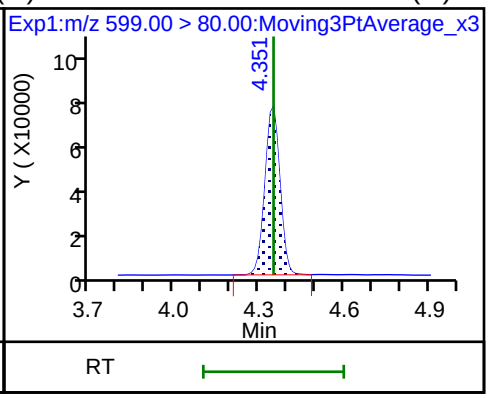
D 27 d3-NMeFOSAA



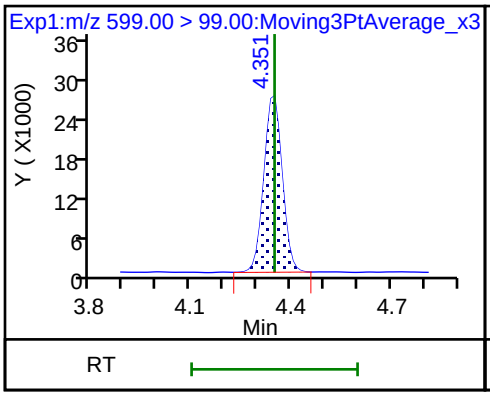
28 N-methylperfluorooctanesulfonami (M)



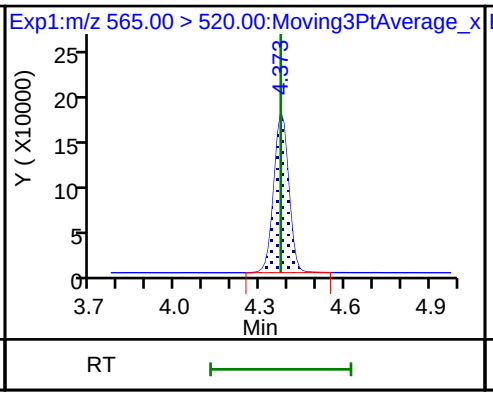
29 Perfluorodecanesulfonic acid (M)



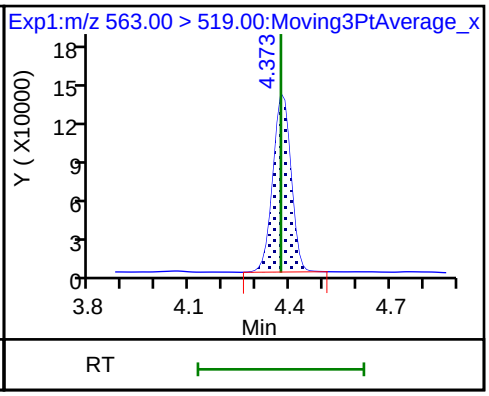
29 Perfluorodecanesulfonic acid



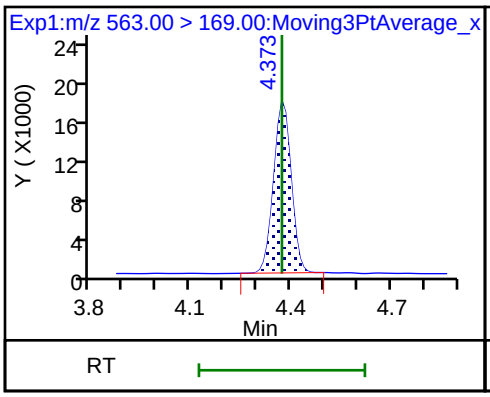
D 30 13C2 PFUnA



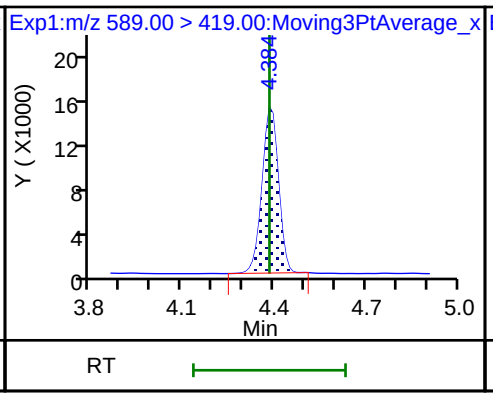
31 Perfluoroundecanoic acid



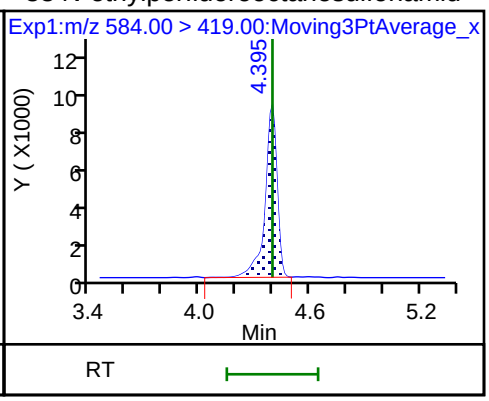
31 Perfluoroundecanoic acid



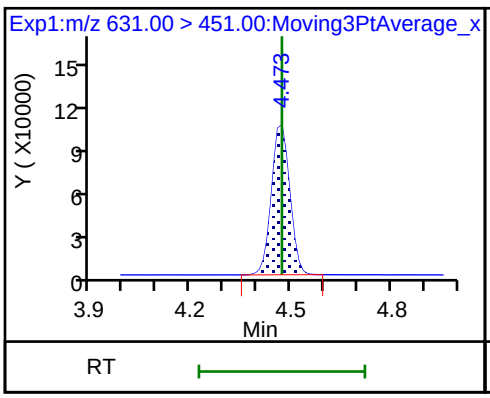
D 32 d5-NEtFOSAA



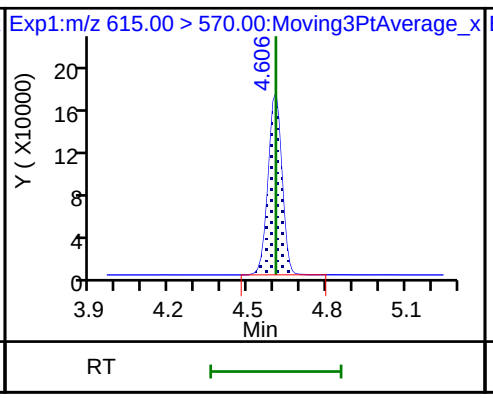
33 N-ethylperfluorooctanesulfonamid



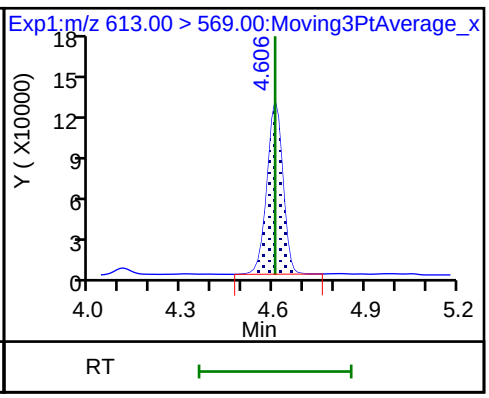
66 11-Chloroeicosafluoro-3-oxaundec



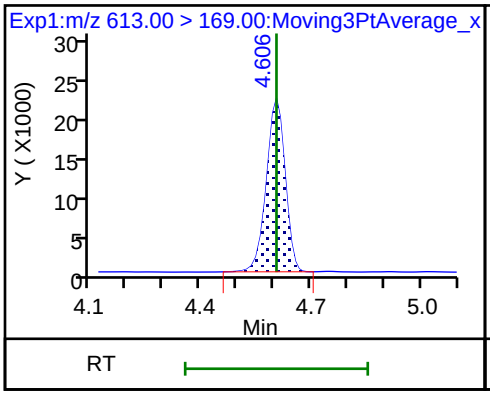
D 36 13C2 PFDoA



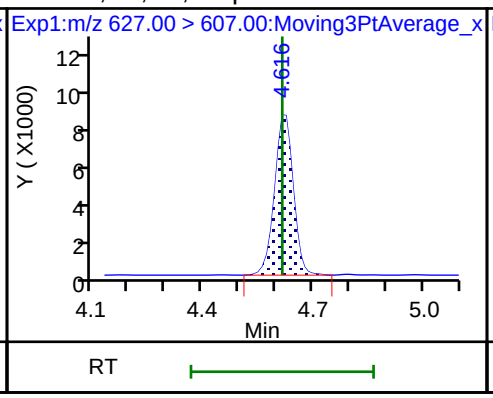
37 Perfluorododecanoic acid



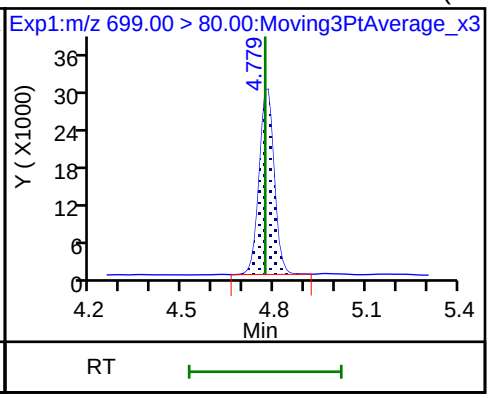
37 Perfluorododecanoic acid



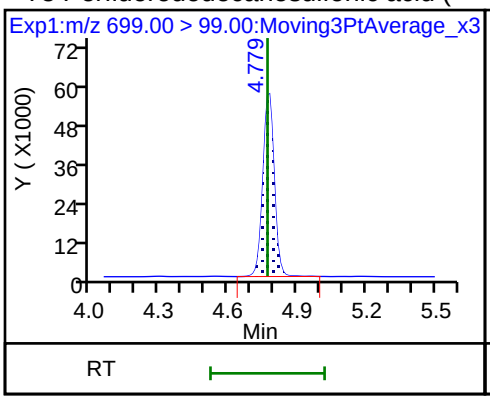
74 1H,1H,2H,2H-perfluorododecanesul



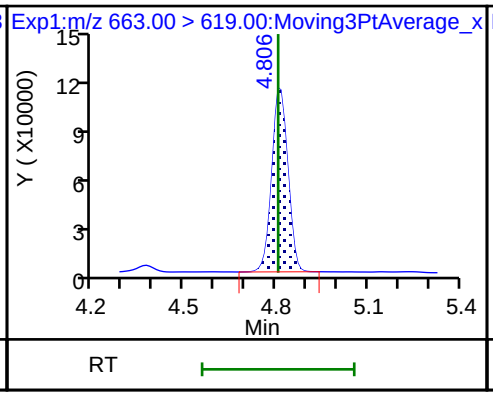
75 Perfluorododecanesulfonic acid (



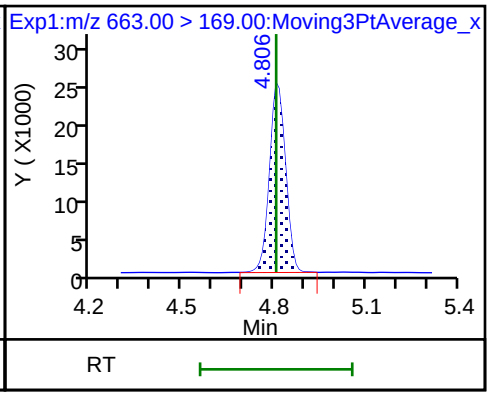
75 Perfluorododecanesulfonic acid (



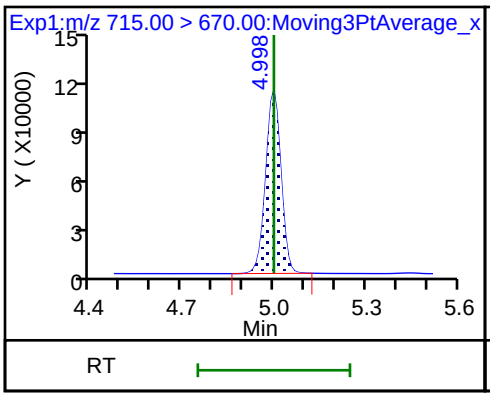
41 Perfluorotridecanoic acid



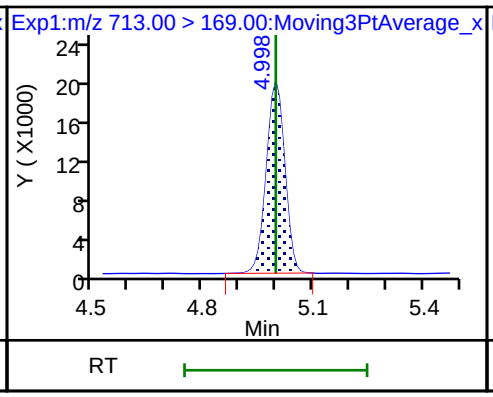
41 Perfluorotridecanoic acid



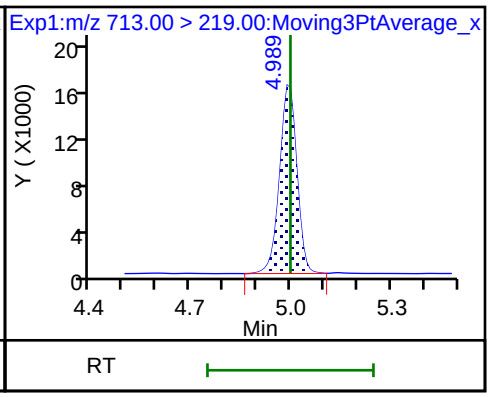
D 43 13C2 PFTeDA



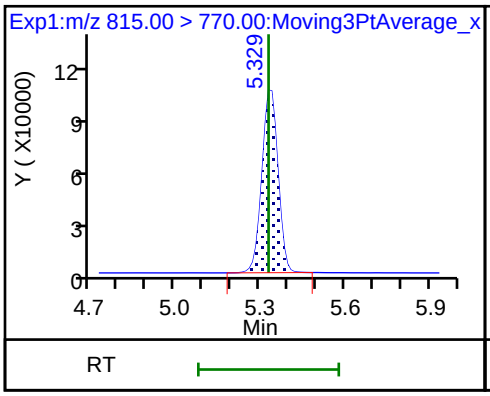
42 Perfluorotetradecanoic acid



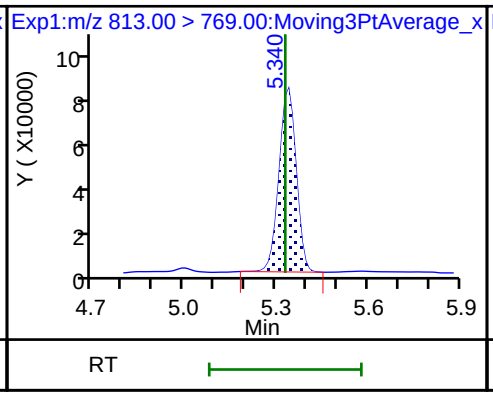
42 Perfluorotetradecanoic acid



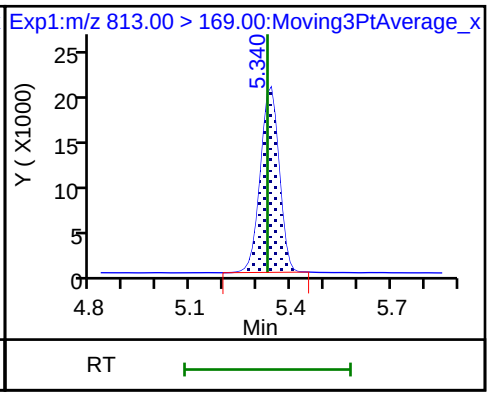
D 44 13C2 PFHxDA



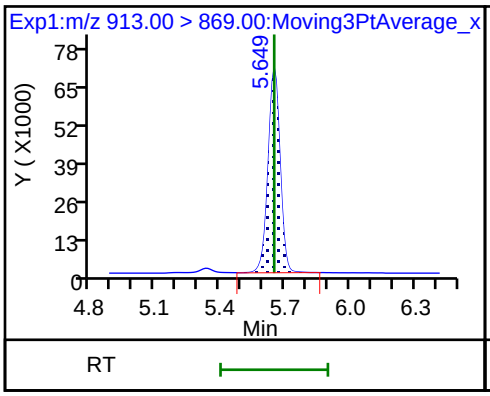
45 Perfluorohexadecanoic acid



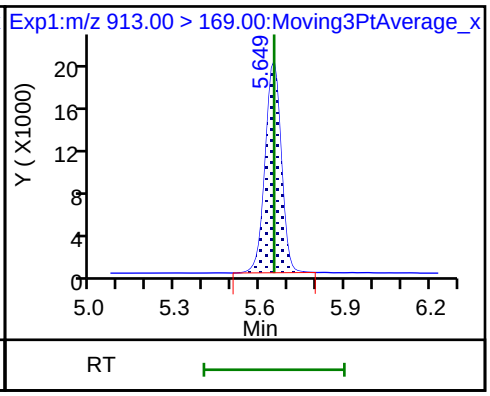
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

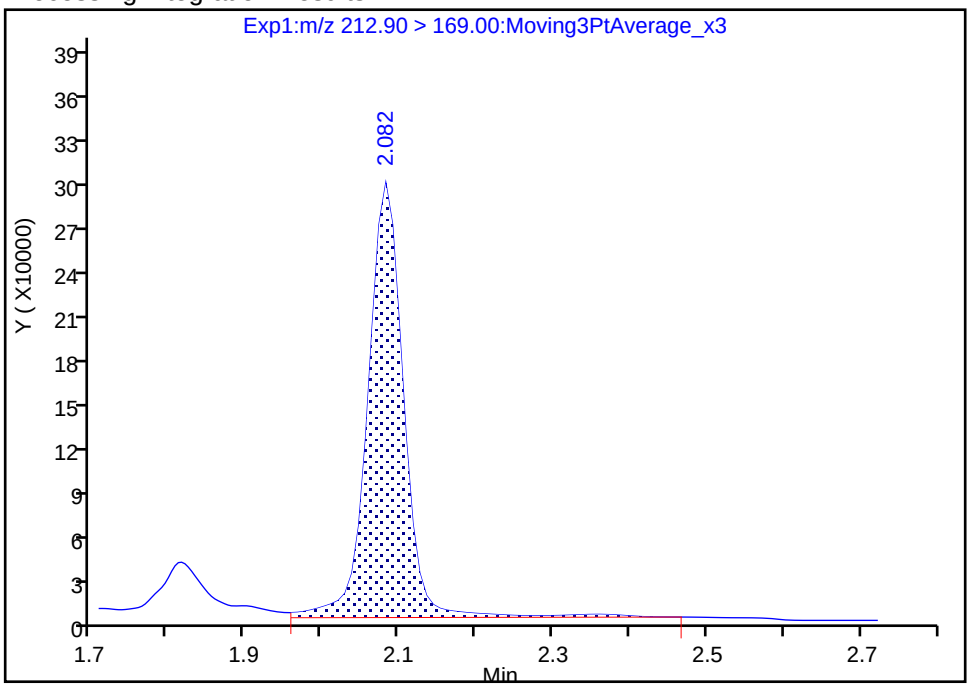
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A12.d				
Injection Date:	26-Feb-2021 14:17:32	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-B MS				
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

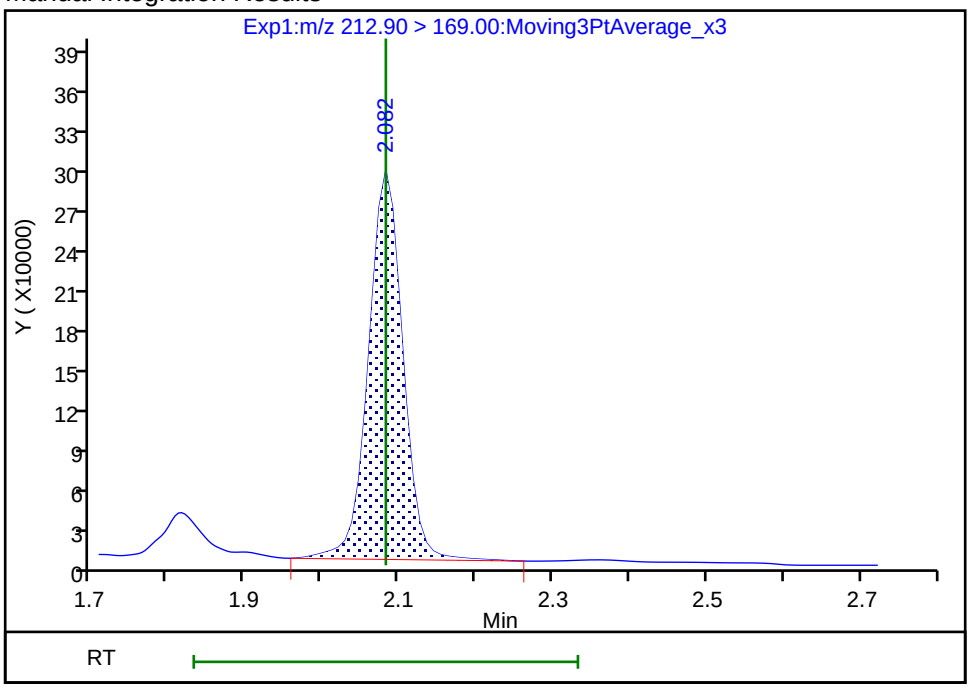
Processing Integration Results

RT: 2.08
Area: 962943
Amount: 1.102888
Amount Units: ng/ml



Manual Integration Results

RT: 2.08
Area: 909540
Amount: 1.041724
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:58:02

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

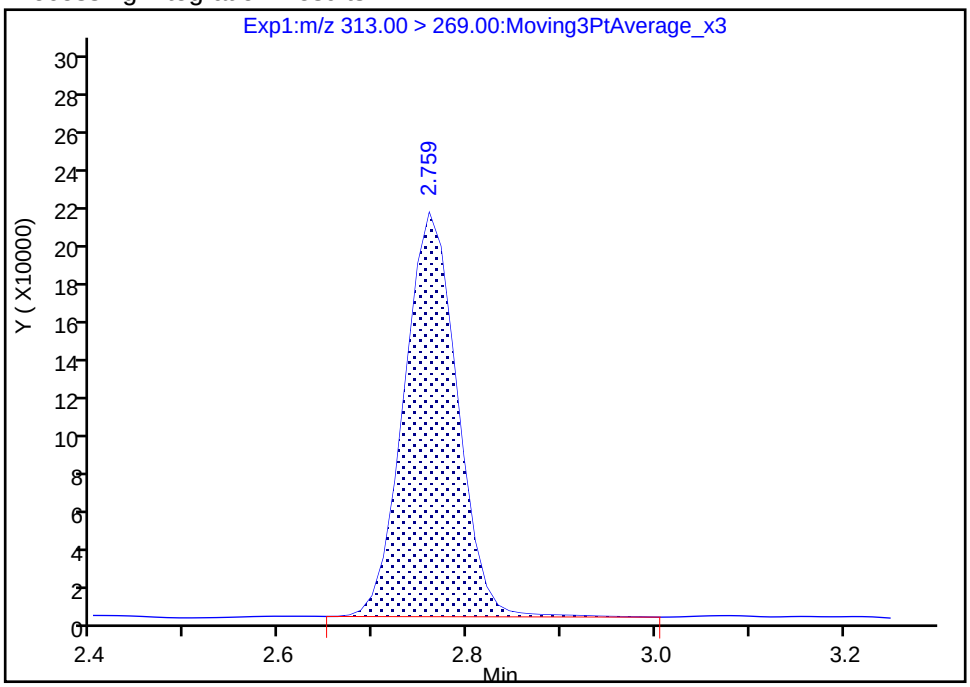
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A12.d				
Injection Date:	26-Feb-2021 14:17:32	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-B MS				
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

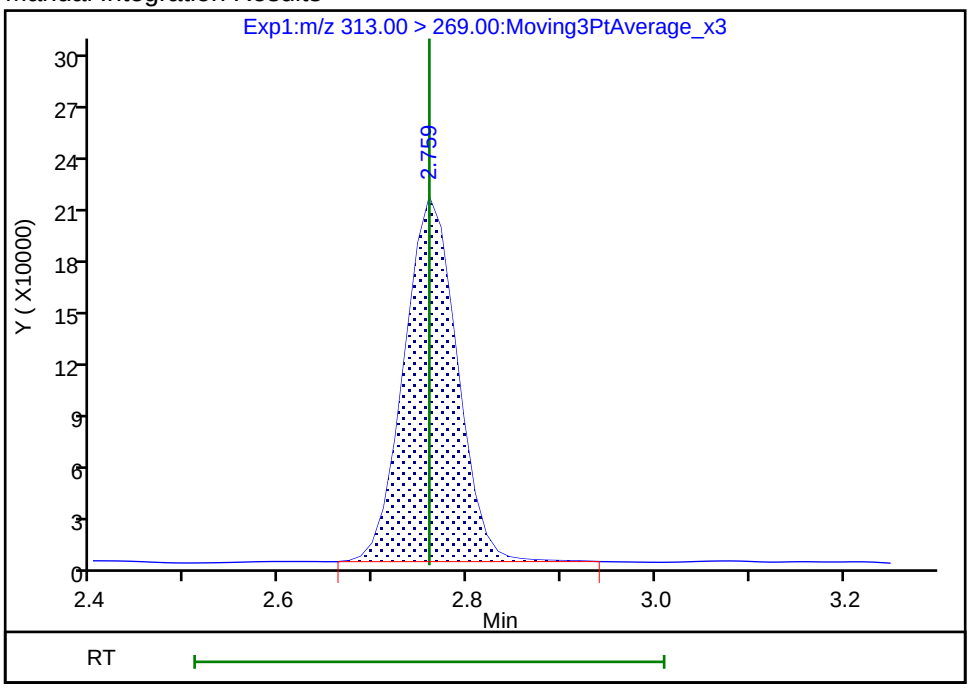
Processing Integration Results

RT: 2.76
Area: 817219
Amount: 0.963353
Amount Units: ng/ml



Manual Integration Results

RT: 2.76
Area: 813090
Amount: 0.958485
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:04:36

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

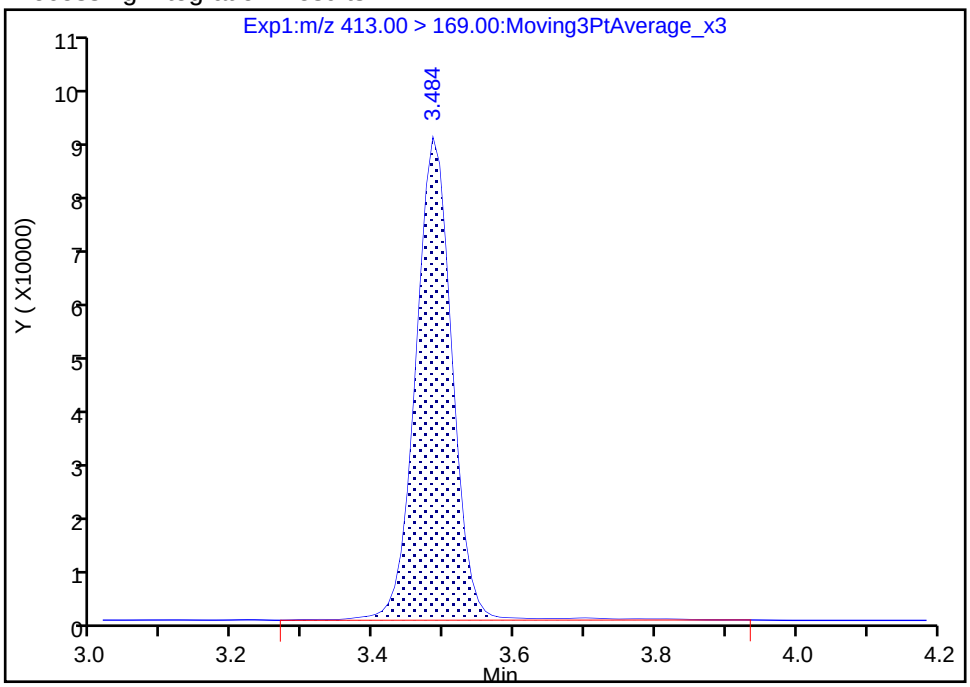
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A12.d				
Injection Date:	26-Feb-2021 14:17:32	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-B MS				
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

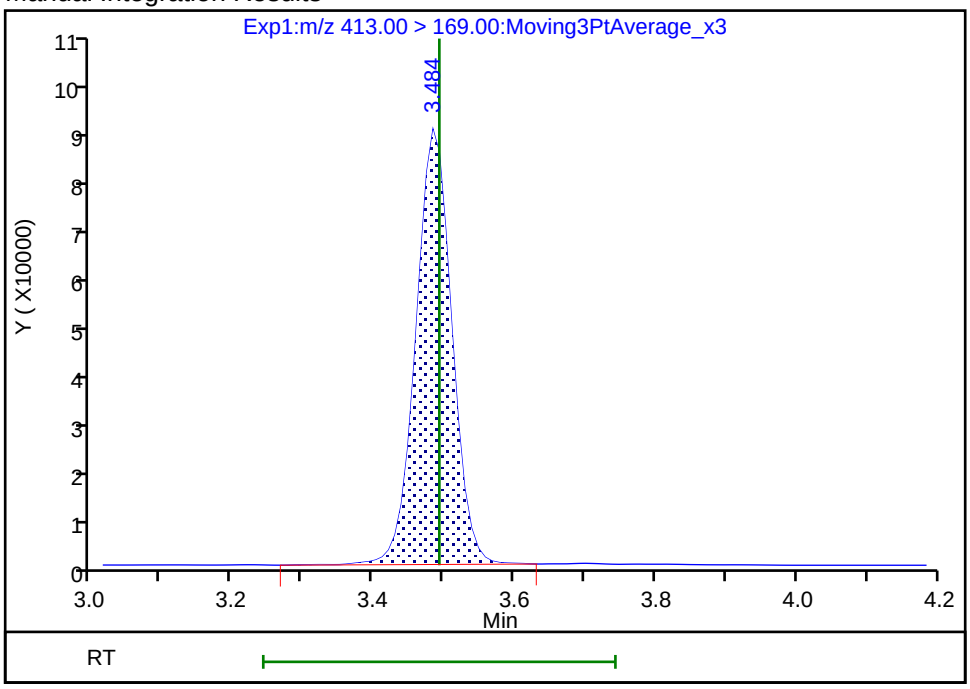
Processing Integration Results

RT: 3.48
Area: 311059
Amount: 0.965143
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 306271
Amount: 0.965143
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:05:22

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

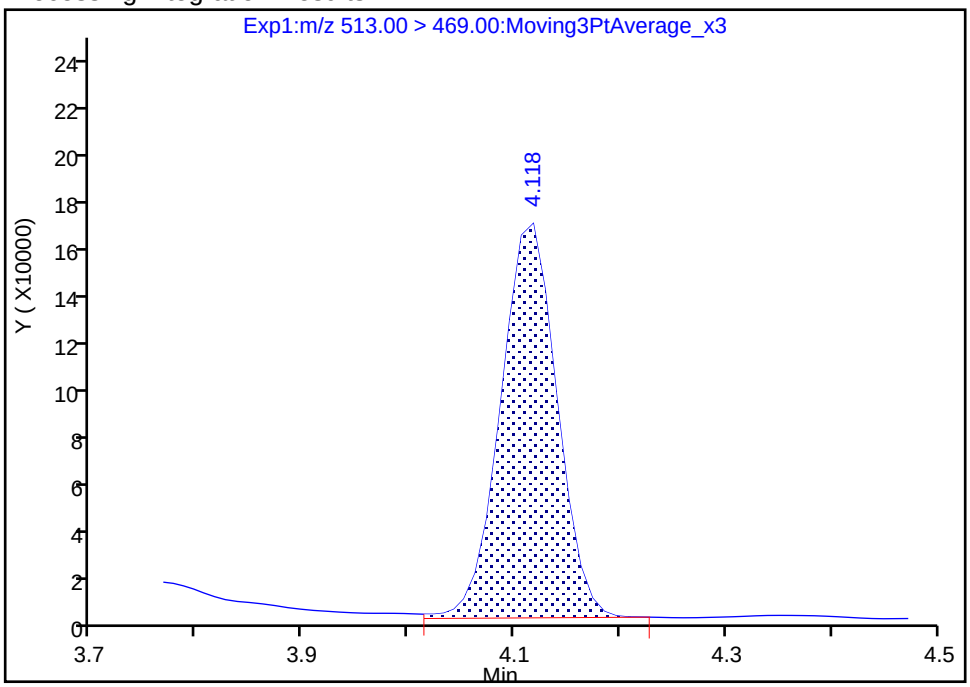
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A12.d				
Injection Date:	26-Feb-2021 14:17:32	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-B MS				
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

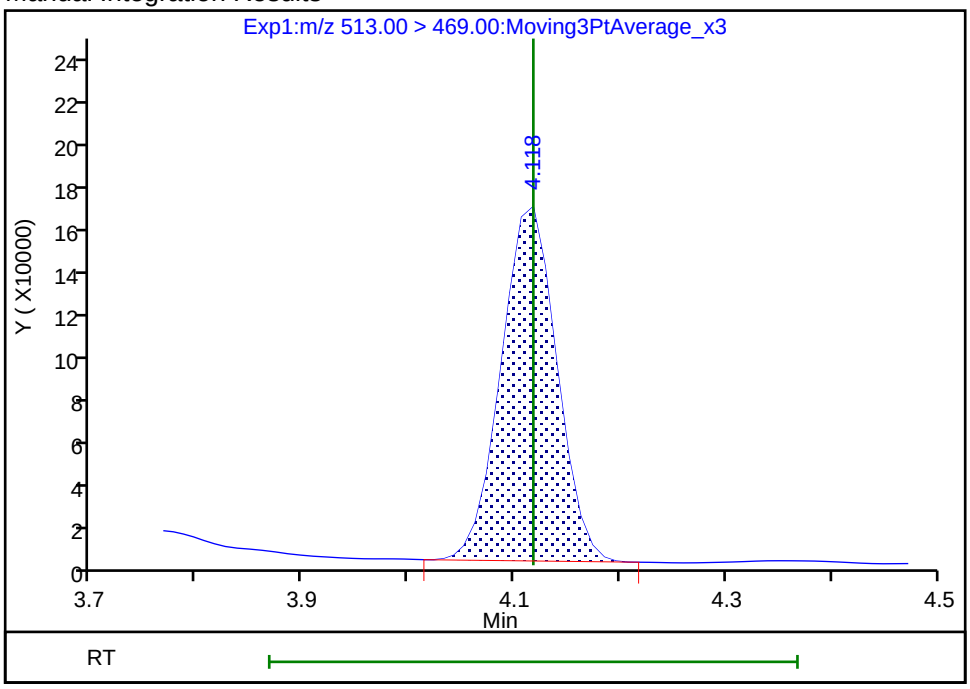
Processing Integration Results

RT: 4.12
Area: 613402
Amount: 0.981842
Amount Units: ng/ml



Manual Integration Results

RT: 4.12
Area: 601890
Amount: 0.963416
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:06:26

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

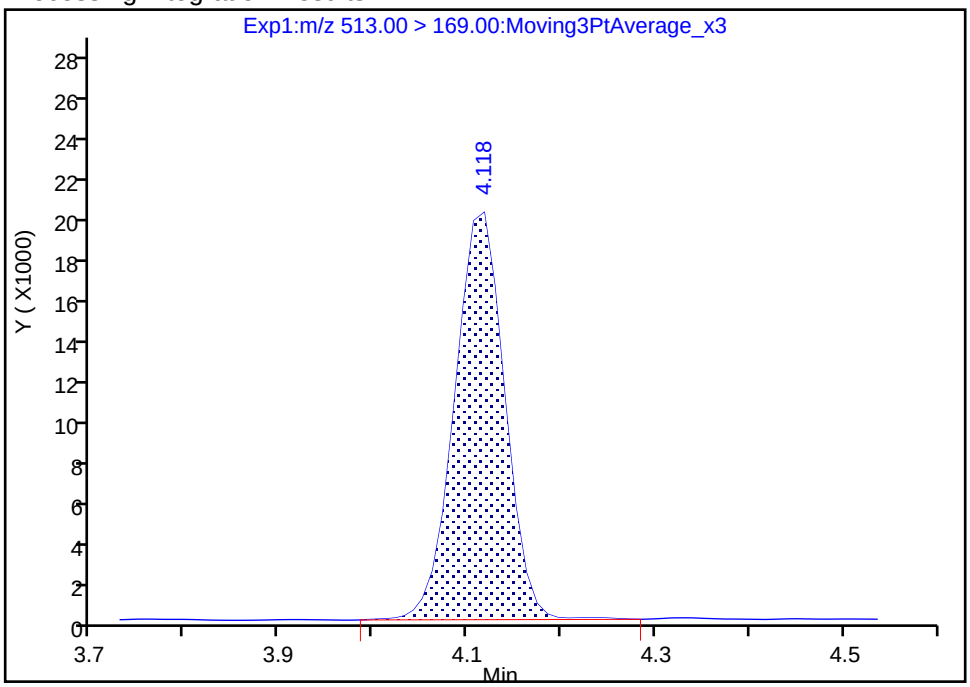
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A12.d				
Injection Date:	26-Feb-2021 14:17:32	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-B MS				
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

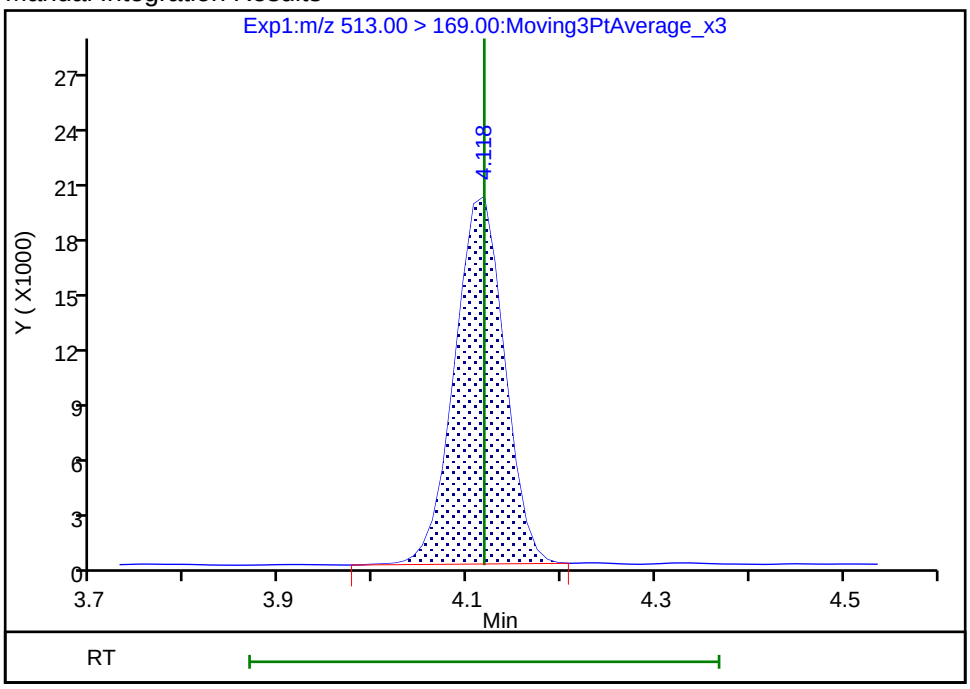
Processing Integration Results

RT: 4.12
Area: 74406
Amount: 0.981842
Amount Units: ng/ml



Manual Integration Results

RT: 4.12
Area: 73787
Amount: 0.963416
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:06:31

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

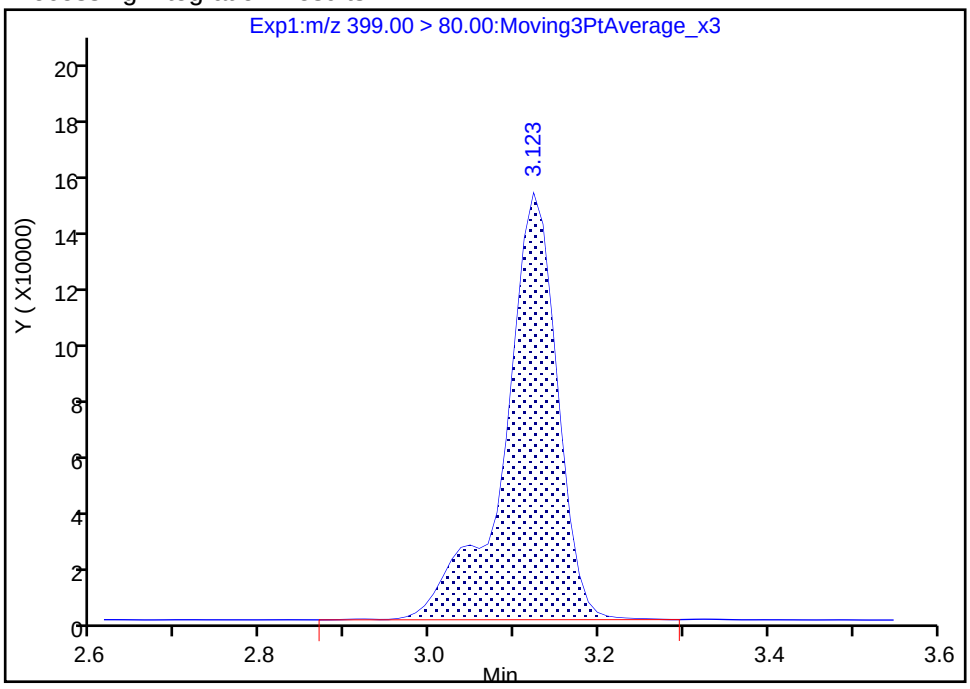
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A12.d				
Injection Date:	26-Feb-2021 14:17:32	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-B MS				
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

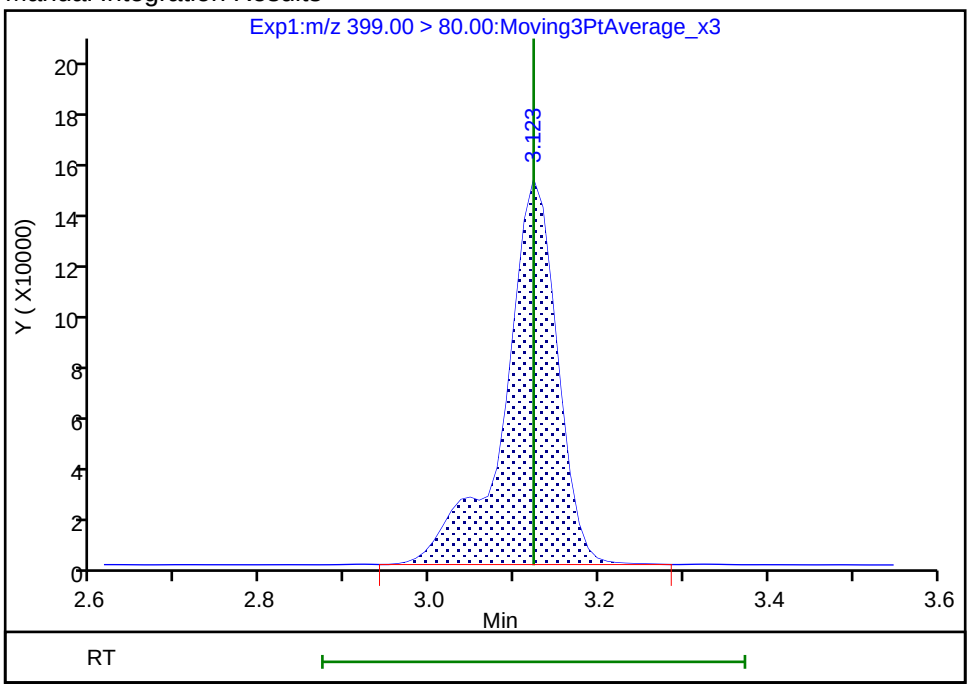
Processing Integration Results

RT: 3.12
Area: 658272
Amount: 0.866962
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 656965
Amount: 0.865241
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:04:50

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

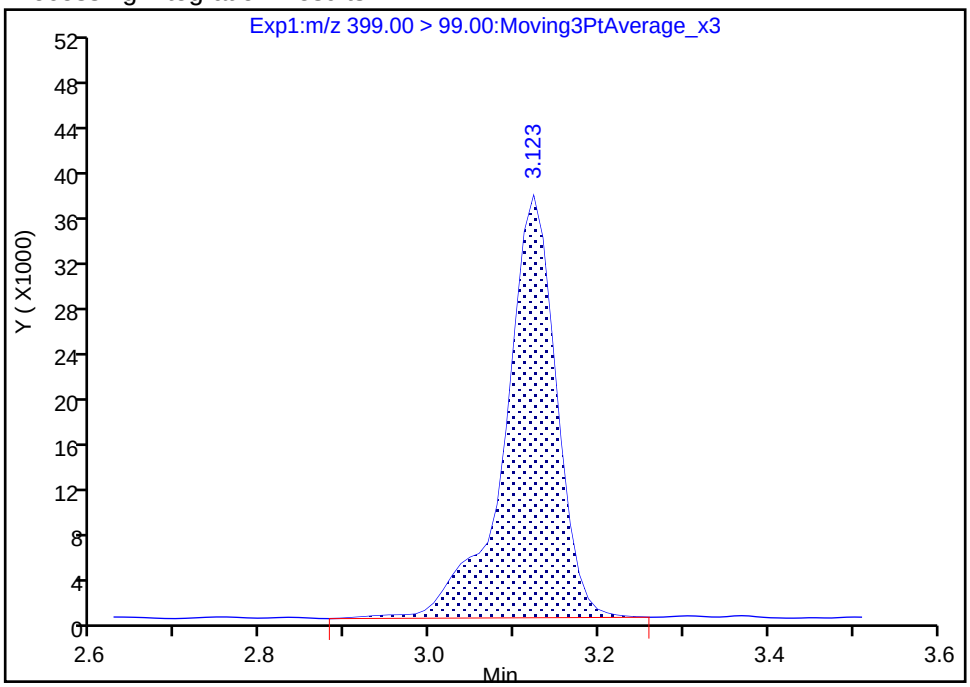
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A12.d				
Injection Date:	26-Feb-2021 14:17:32	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-B MS				
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

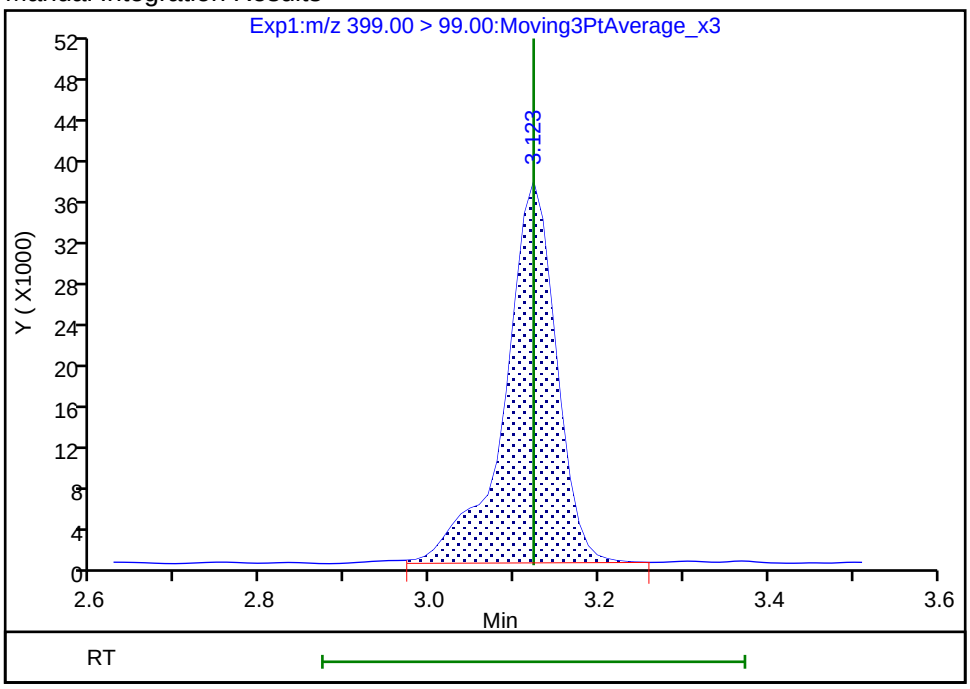
Processing Integration Results

RT: 3.12
Area: 157942
Amount: 0.866962
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 157057
Amount: 0.865241
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:04:57

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

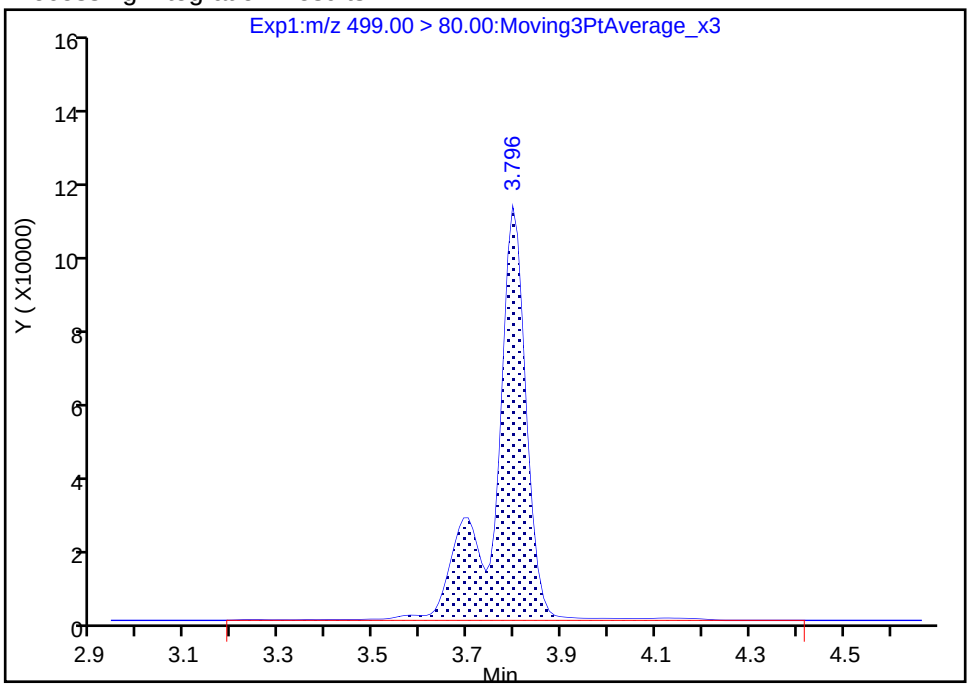
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A12.d				
Injection Date:	26-Feb-2021 14:17:32	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-B MS				
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

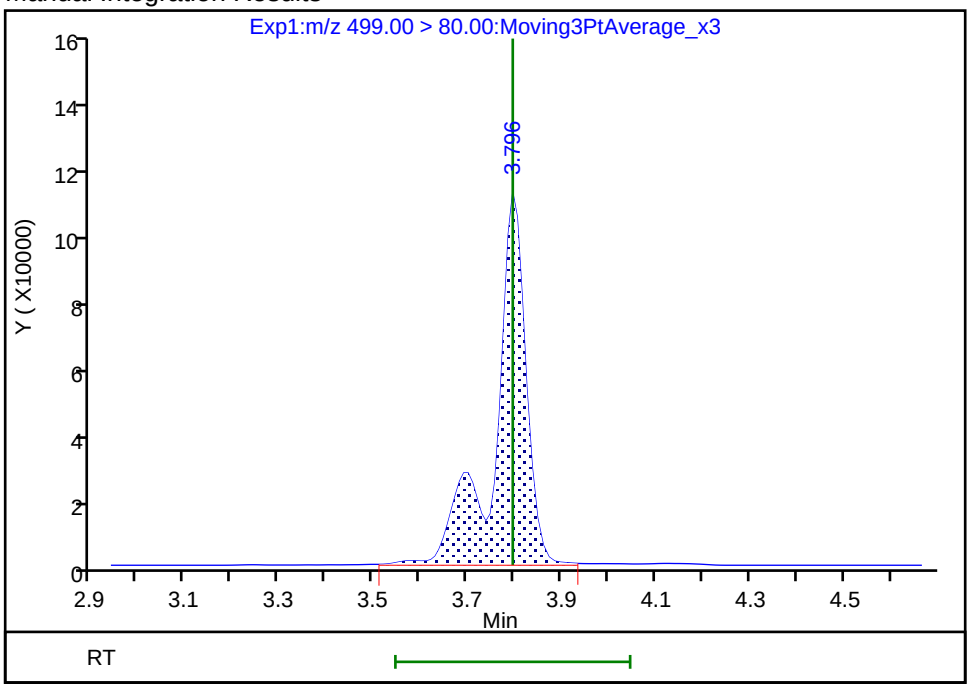
Processing Integration Results

RT: 3.80
Area: 516802
Amount: 1.109823
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 507257
Amount: 1.089326
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:06:00

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

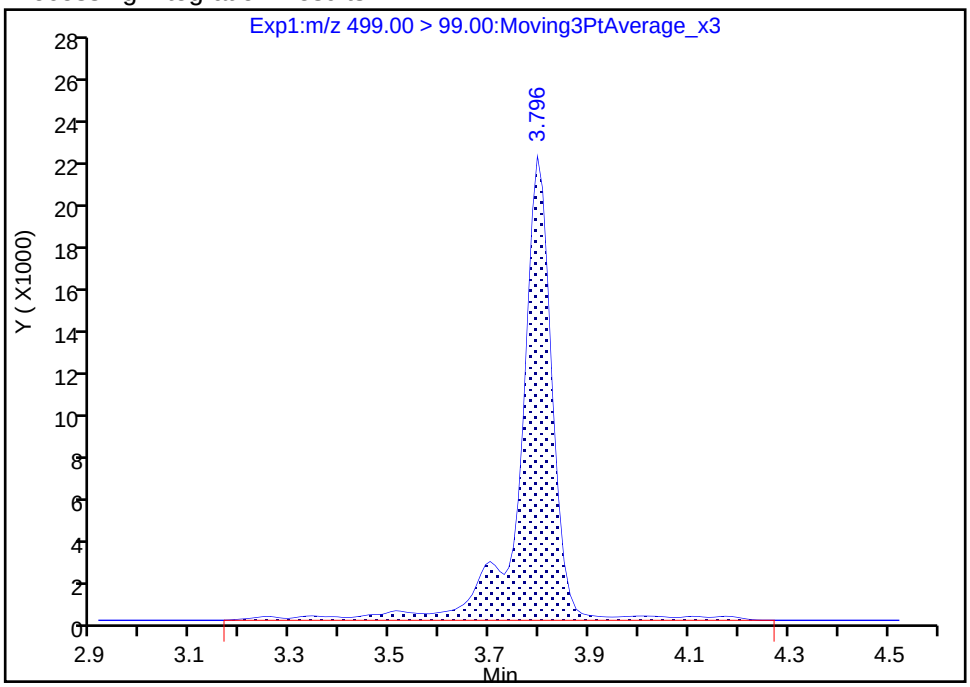
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A12.d				
Injection Date:	26-Feb-2021 14:17:32	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-B MS				
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

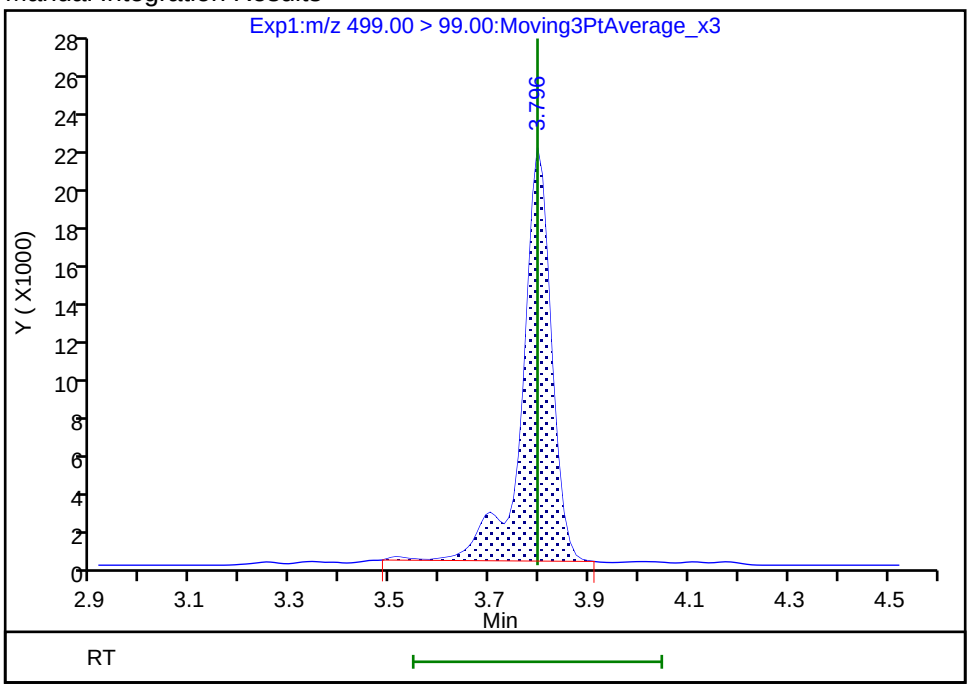
Processing Integration Results

RT: 3.80
Area: 100486
Amount: 1.109823
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 89058
Amount: 1.089326
Amount Units: ng/ml



Reviewer: deannd, 01-Mar-2021 10:45:52

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

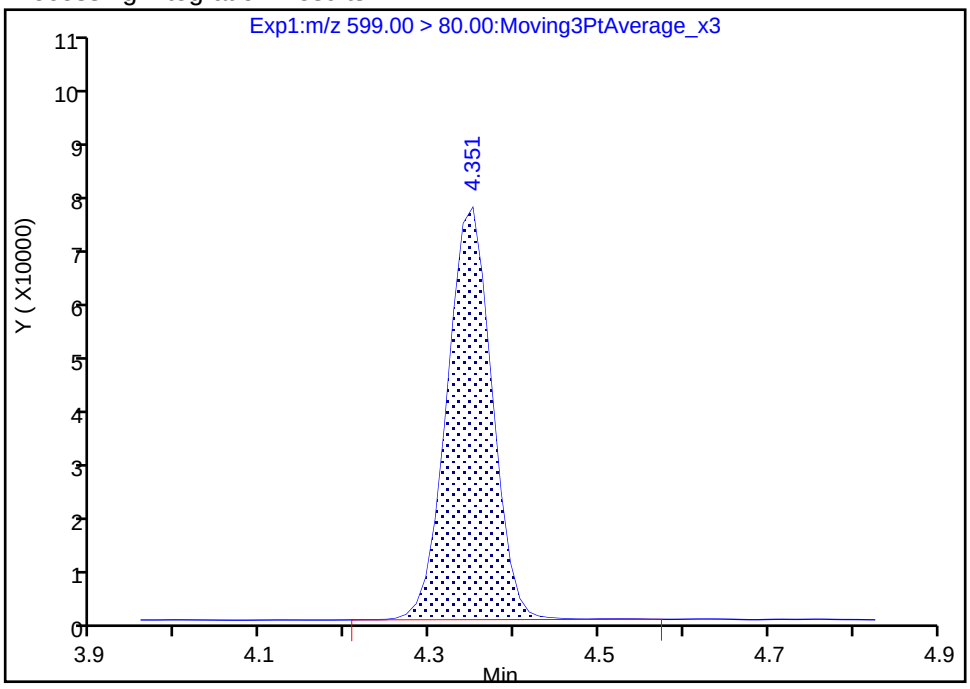
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A12.d				
Injection Date:	26-Feb-2021 14:17:32	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-B MS				
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

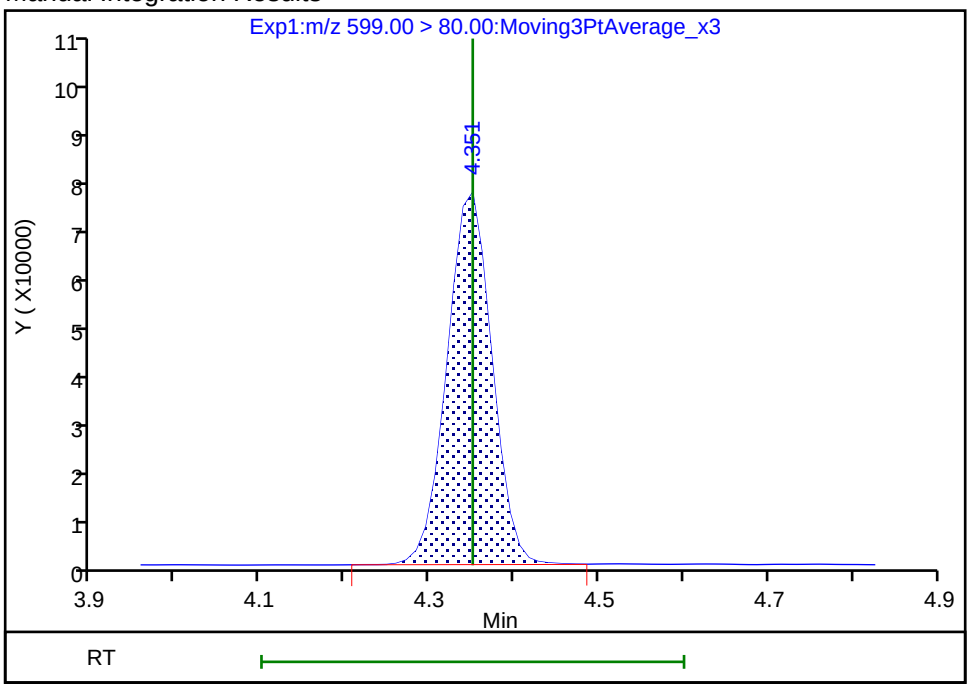
Processing Integration Results

RT: 4.35
Area: 282009
Amount: 1.018170
Amount Units: ng/ml



Manual Integration Results

RT: 4.35
Area: 281651
Amount: 1.016878
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:06:48

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

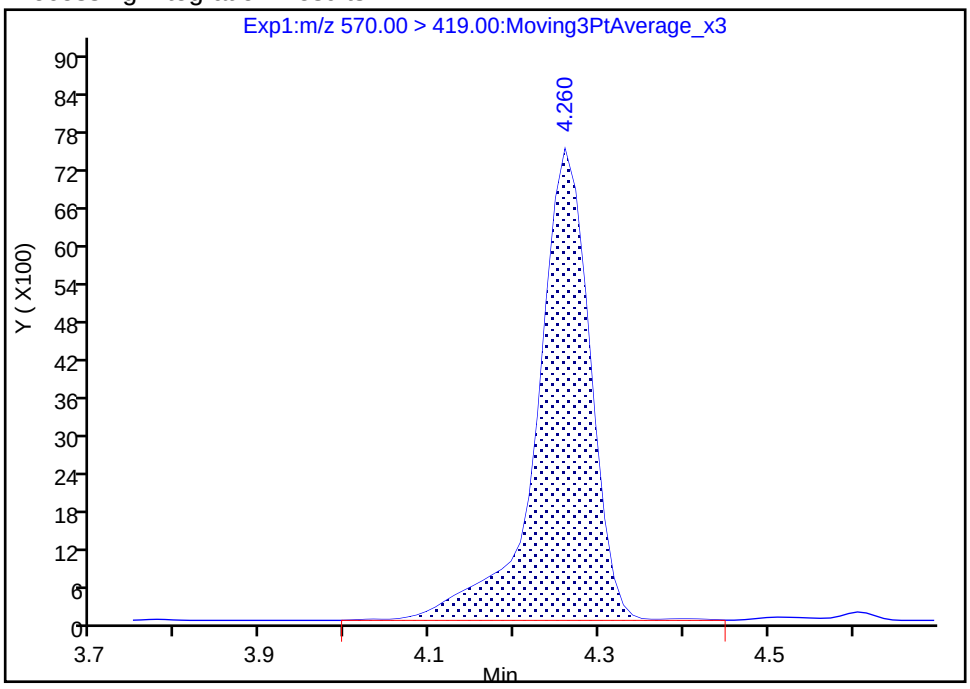
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A12.d				
Injection Date:	26-Feb-2021 14:17:32	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-B MS				
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

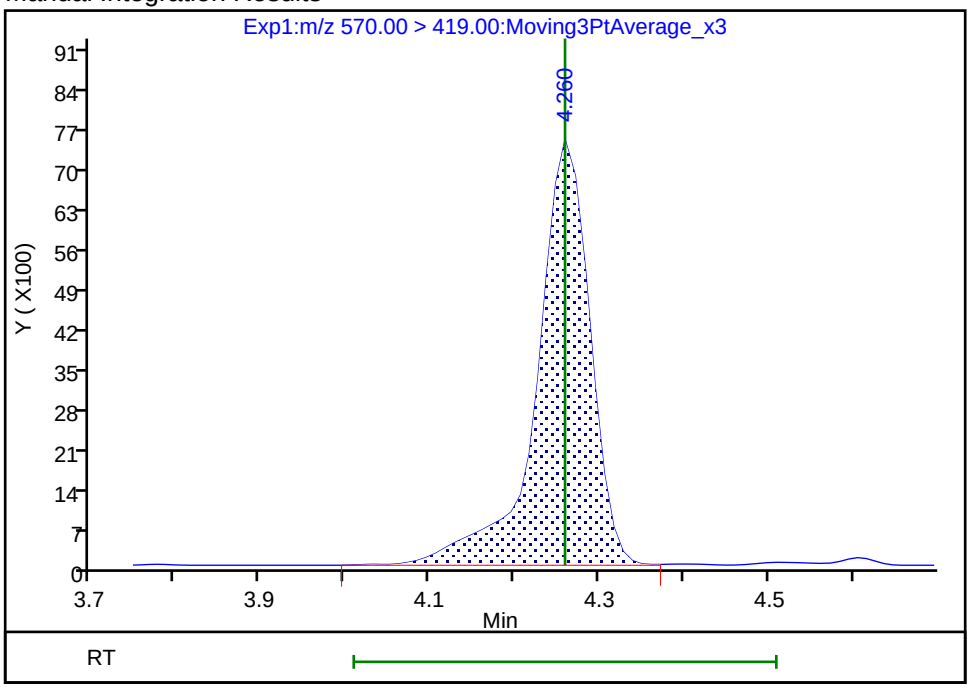
Processing Integration Results

RT: 4.26
Area: 33091
Amount: 1.118353
Amount Units: ng/ml



Manual Integration Results

RT: 4.26
Area: 33019
Amount: 1.115919
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:06:43
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

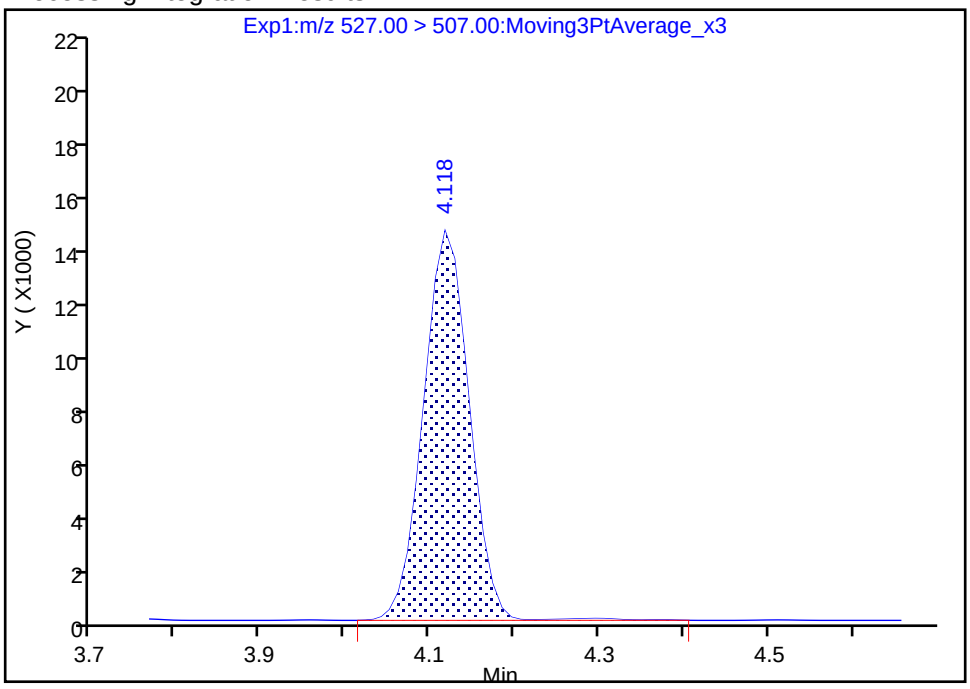
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A12.d				
Injection Date:	26-Feb-2021 14:17:32	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-B MS				
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

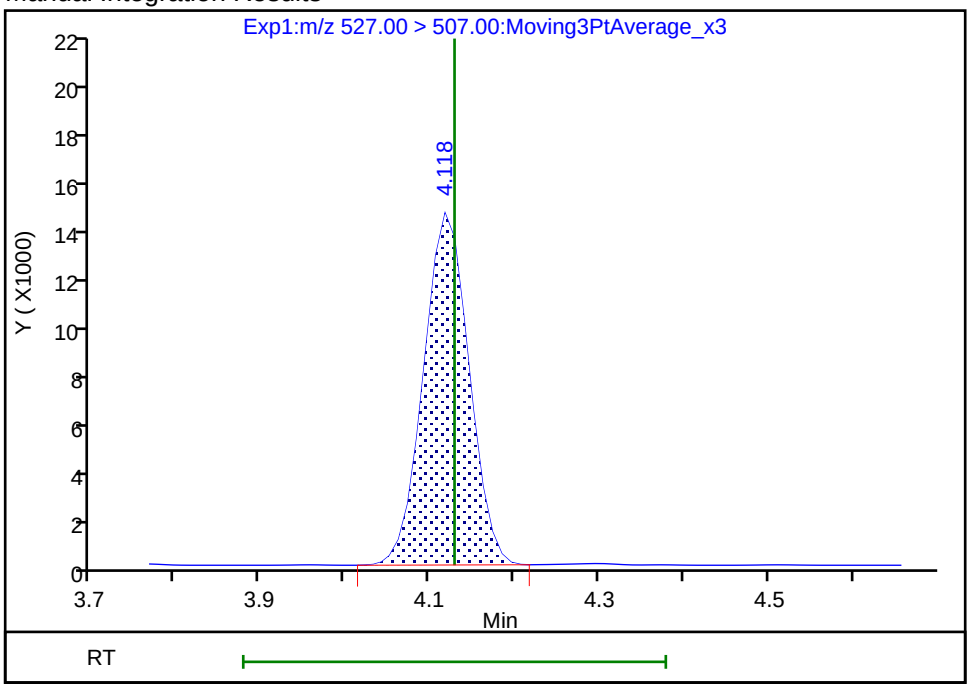
Processing Integration Results

RT: 4.12
Area: 55048
Amount: 0.644273
Amount Units: ng/ml



Manual Integration Results

RT: 4.12
Area: 54589
Amount: 0.638901
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:06:37

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

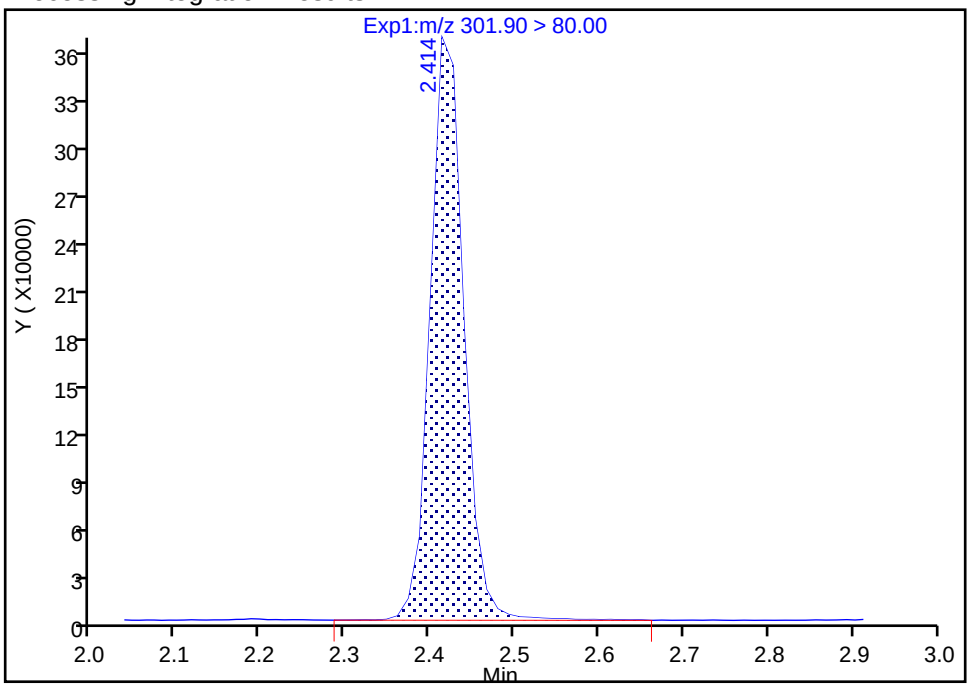
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A12.d				
Injection Date:	26-Feb-2021 14:17:32	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-B MS				
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

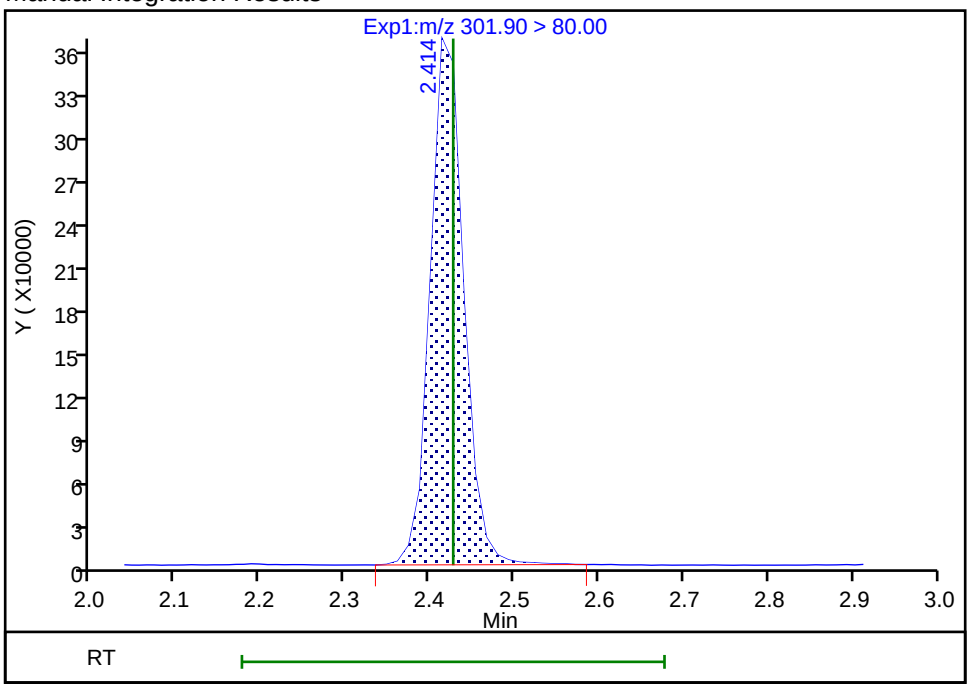
Processing Integration Results

RT: 2.41
Area: 1002592
Amount: 1.022116
Amount Units: ng/ml



Manual Integration Results

RT: 2.41
Area: 996932
Amount: 1.016345
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 09:57:29

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12A (4-6) MSD Lab Sample ID: 480-181249-3 MSD

Matrix: Solid Lab File ID: PA210226A13.d

Analysis Method: 537 (modified) Date Collected: 02/12/2021 13:45

Extraction Method: SHAKE Date Extracted: 02/25/2021 15:08

Sample wt/vol: 5.20(g) Date Analyzed: 02/26/2021 14:25

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 20.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 164334 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	2.671		0.60	0.23
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.174		0.24	0.022
307-24-4	Perfluorohexanoic acid (PFHxA)	2.349		0.24	0.029
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.473		0.24	0.028
335-67-1	Perfluorooctanoic acid (PFOA)	2.440		0.24	0.017
375-95-1	Perfluorononanoic acid (PFNA)	2.356		0.24	0.024
335-76-2	Perfluorodecanoic acid (PFDA)	2.522		0.24	0.025
2058-94-8	Perfluoroundecanoic acid (PFUnA)	2.518		0.24	0.029
307-55-1	Perfluorododecanoic acid (PFDoA)	2.263		0.24	0.018
72629-94-8	Perfluorotridecanoic acid (PFTriA)	2.327		0.24	0.016
376-06-7	Perfluorotetradecanoic acid (PFTeA)	2.703		0.24	0.023
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.966		0.24	0.011
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.205		0.24	0.018
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	2.372		0.24	0.018
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.429		0.24	0.081
335-77-3	Perfluorodecanesulfonic acid (PFDS)	2.317		0.24	0.023
754-91-6	Perfluorooctanesulfonamide (PFOSA)	2.429		0.24	0.011
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.700		2.42	0.041
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.681		2.42	0.036
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	2.023	J	2.42	0.027
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	1.901	J	2.42	0.035

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Client Sample ID: SB-12A (4-6) MSD Lab Sample ID: 480-181249-3 MSD

Matrix: Solid Lab File ID: PA210226A13.d

Analysis Method: 537 (modified) Date Collected: 02/12/2021 13:45

Extraction Method: SHAKE Date Extracted: 02/25/2021 15:08

Sample wt/vol: 5.20(g) Date Analyzed: 02/26/2021 14:25

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: 20.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 164334 Units: ug/Kg

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	80		50-150
STL01892	13C4 PFHpA	89		50-150
STL00990	13C4 PFOA	89		50-150
STL00991	13C4 PFOS	82		50-150
STL00995	13C5 PFNA	92		50-150
STL00992	13C4 PFBA	75		25-150
STL00993	13C2 PFHxA	91		50-150
STL00996	13C2 PFDA	89		50-150
STL00997	13C2 PFUnA	94		50-150
STL00998	13C2 PFDoA	82		50-150
STL01056	13C8 FOSA	77		25-150
STL01893	13C5 PFPeA	85		25-150
STL02116	13C2 PFTeDA	69		50-150
STL02118	d3-NMeFOSAA	73		50-150
STL02117	d5-NEtFOSAA	87		50-150
STL02279	M2-6:2 FTS	105		25-150
STL02280	M2-8:2 FTS	119		25-150
STL02337	13C3 PFBS	84		50-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A13.d
Lims ID: 480-181249-A-3-C MSD
Client ID: SB-12A (4-6)
Sample Type: MSD
Inject. Date: 26-Feb-2021 14:25:50 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 480-181249-A-3-C MSD
Misc. Info.: 200-0044972-013 Plate: 1 Rack: 2
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 01-Mar-2021 10:52:47 Calib Date: 22-Dec-2020 13:29:37
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20201222-44184.b\PA201222ICAL013.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1604

First Level Reviewer: khanphomeea Date: 01-Mar-2021 10:10:13
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.082	2.082	0.0	0.598	1213648	0.9407		75.3	6021	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.082	2.082	0.0	1.000	1075103	1.11		111	187	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.400	2.401	-0.001	0.689	987127	1.06		84.7	2425	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.400	2.401	-0.001	1.000	786387	0.8993		89.9	35.1	
D 47 13C3 PFBS										M
301.90 > 80.00	2.413	2.427	-0.014	0.693	1200992	0.9786		84.2	89674	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.426	2.427	-0.001	1.005	950735	0.8135	Target=2.21	92.0	397	M
298.90 > 99.00	2.426	2.427	-0.001	1.005	444261		2.14(1.11-3.32)		123	M
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.722	2.723	-0.001	0.781	160437	1.57		134	64.9	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.722	2.723	-0.001	1.000	223040	0.8851		94.8	149	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.758	2.759	-0.001	0.792	1107652	1.13		90.7	3534	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.758	2.759	-0.001	1.000	940700	0.9718	Target=12.83	97.2	125	
313.00 > 119.00	2.758	2.759	-0.001	1.000	78474		11.99(6.42-19.25)		60.0	M
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.758	2.771	-0.013	0.884	898754	0.9419	Target=3.35	100	478	
349.00 > 99.00	2.758	2.771	-0.013	0.884	249117		3.61(1.67-5.02)		225	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.868	2.869	-0.001	0.823	91575	0.5321		42.6	586	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.868	2.869	-0.001	1.000	149885	1.48		148	47.0	M
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.121	3.123	-0.002	1.000	781563	0.9122	Target=4.15	100	449	M
399.00 > 99.00	3.121	3.123	-0.002	1.000	186081		4.20(2.08-6.23)		152	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.121	3.123	-0.002	0.896	859755	0.9412		79.6	2290	
D 9 13C4 PFHpA										
367.00 > 322.00	3.121	3.133	-0.012	0.896	1044357	1.12		89.3	3959	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.132	3.133	-0.001	1.003	933653	1.02	Target=3.66	102	121	
363.00 > 169.00	3.121	3.133	-0.012	1.000	256916		3.63(1.83-5.49)		532	
77 DONA										
377.00 > 251.00	3.164	3.165	-0.001	0.834	1597327	0.9256	Target=2.43	98.3	1963	
377.00 > 85.00	3.164	3.165	-0.001	0.834	660563		2.42(1.22-3.65)		805	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.474	3.475	-0.001	0.916	682771	0.9812	Target=5.95	103	800	
449.00 > 99.00	3.474	3.475	-0.001	0.916	117455		5.81(2.98-8.93)		234	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.474	3.475	-0.001	0.997	141751	1.24		105	160	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.474	3.475	-0.001	1.000	111138	0.8370		88.3	905	M
D 14 13C4 PFOA										
417.00 > 372.00	3.483	3.484	-0.001	1.000	1054307	1.11		88.7	2656	
* 62 13C2 PFOA										
415.00 > 370.00	3.483	3.484	-0.001		1200518	1.25			2007	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.483	3.493	-0.010	1.000	922991	1.01	Target=2.58	101	160	
413.00 > 169.00	3.483	3.493	-0.010	1.000	360122		2.56(1.29-3.87)		766	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.794	3.796	-0.002	1.000	595621	1.00	Target=5.65	108	409	M
499.00 > 99.00	3.794	3.796	-0.002	1.000	106838		5.57(2.82-8.47)		160	M
D 18 13C4 PFOS										
503.00 > 80.00	3.794	3.796	-0.002	1.089	615876	0.9823		82.2	1049	
D 19 13C5 PFNA										
468.00 > 423.00	3.814	3.816	-0.002	1.095	959175	1.14		91.5	4878	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.814	3.816	-0.002	1.000	827654	0.9745	Target=7.44	97.4	82.8	M
463.00 > 169.00	3.814	3.816	-0.002	1.000	116675		7.09(3.72-11.16)		571	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.955	3.957	-0.002	1.042	553679	0.8372		89.8	1793	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.081	4.084	-0.003	1.076	432768	0.9786	Target=2.54	102	661	
549.00 > 99.00	4.081	4.084	-0.003	1.076	151238		2.86(1.27-3.81)		263	
D 23 13C2 PFDA										
515.00 > 470.00	4.115	4.118	-0.003	1.181	892843	1.11		89.1	3146	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.115	4.118	-0.003	1.000	767935	1.04	Target=9.29	104	40.6	
513.00 > 169.00	4.115	4.118	-0.003	1.000	100104		7.67(4.64-13.93)		490	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.115	4.129	-0.014	1.181	168040	1.43		119	244	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.115	4.129	-0.014	1.000	75038	0.7863		82.1	1126	
D 21 13C8 FOSA										
506.00 > 78.00	4.215	4.207	0.008	1.210	1127053	0.9565		76.5	2409	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.215	4.217	-0.002	1.000	907871	1.00		100	1528	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.257	4.260	-0.003	1.222	52983	0.9113		72.9	315	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.257	4.260	-0.003	1.000	41959	1.12		112	308	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.347	4.350	-0.003	1.146	337999	0.9587	Target=2.80	99.5	676	
599.00 > 99.00	4.347	4.350	-0.003	1.146	119838		2.82(1.40-4.19)		462	
D 30 13C2 PFUnA										
565.00 > 520.00	4.369	4.373	-0.004	1.254	775604	1.18		94.2	5042	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.369	4.373	-0.004	1.000	659110	1.04	Target=8.12	104	330	
563.00 > 169.00	4.369	4.373	-0.004	1.000	83389		7.90(4.06-12.18)		796	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.380	4.384	-0.004	1.257	60973	1.08		86.8	700	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.391	4.395	-0.004	1.003	50086	1.11		111	431	M
66 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.467	4.473	-0.006	1.177	495155	0.7216		76.6	1804	
D 36 13C2 PFDoA										
615.00 > 570.00	4.601	4.606	-0.005	1.321	711103	1.02		81.8	3320	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.601	4.606	-0.005	1.000	585639	0.9360	Target=6.91	93.6	167	
613.00 > 169.00	4.601	4.606	-0.005	1.000	95816		6.11(3.45-10.36)		879	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.622	4.616	0.006	1.123	35621	0.7250		75.2	1250	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.775	4.770	0.005	1.258	121440	0.9362	Target=0.51	96.7	358	
699.00 > 99.00	4.775	4.770	0.005	1.258	229928		0.53(0.26-0.77)		756	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.811	4.806	0.004	1.045	488853	0.9627	Target=4.39	96.3	171	
663.00 > 169.00	4.811	4.806	0.004	1.045	119272		4.10(2.20-6.59)		1047	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.995	4.998	-0.003	1.434	443861	0.8634		69.1	1439	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.995	4.998	-0.003	1.000	73624	1.12	Target=1.06	112	986	
713.00 > 219.00	4.995	4.998	-0.003	1.000	75431		0.98(0.53-1.59)		1065	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.338	5.329	0.009	1.533	444989	0.8103		64.8	2042	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.338	5.329	0.009	1.000	367257	1.09	Target=3.84	109	183	
813.00 > 169.00	5.338	5.329	0.009	1.000	96791		3.79(1.92-5.76)		1207	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.646	5.649	-0.003	1.058	340111	1.06	Target=3.92	106	340	
913.00 > 169.00	5.646	5.649	-0.003	1.058	95651		3.56(1.96-5.88)		696	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Report Date: 01-Mar-2021 10:53:19 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A13.d

Injection Date: 26-Feb-2021 14:25:50 Instrument ID: LC812

Lims ID: 480-181249-A-3-C MSD

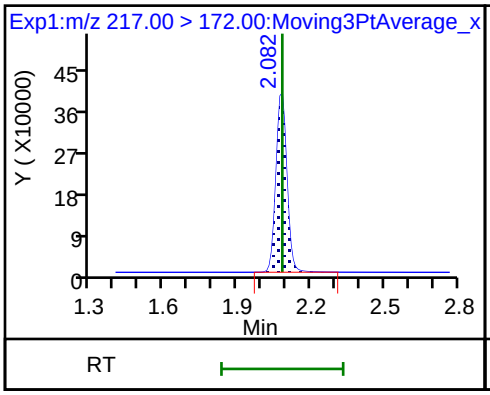
Client ID: SB-12A (4-6)

Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 13

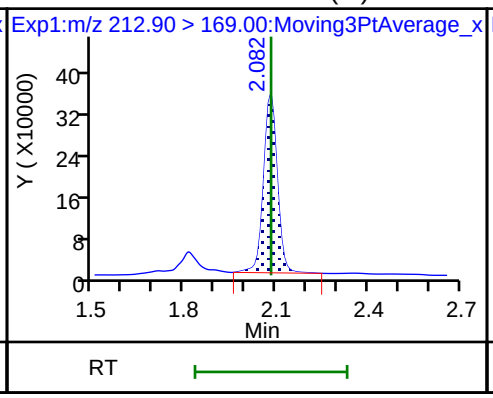
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

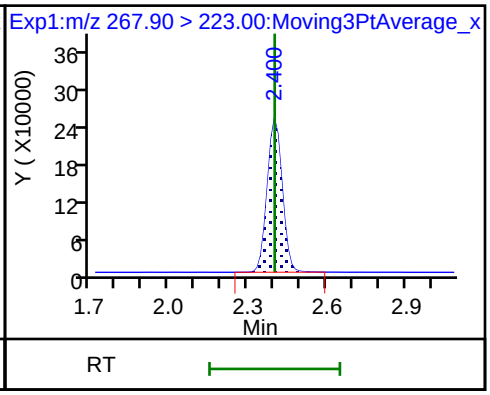
D 1 13C4 PFBA



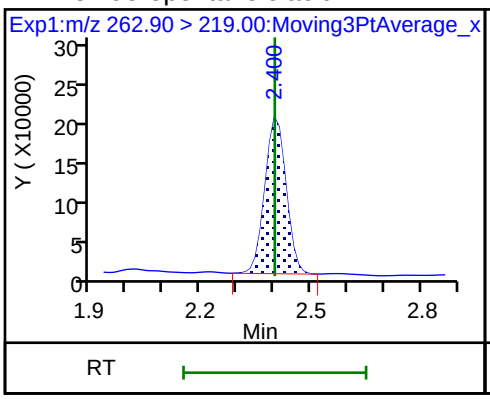
2 Perfluorobutanoic acid (M)



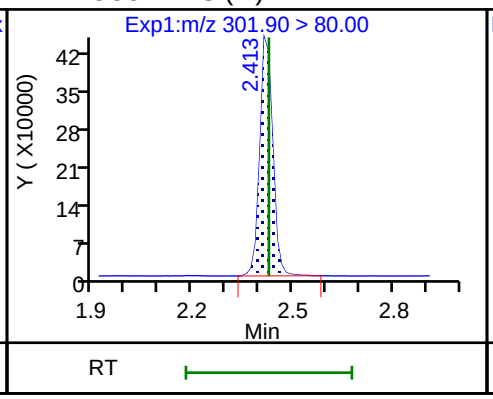
D 3 13C5 PFPeA



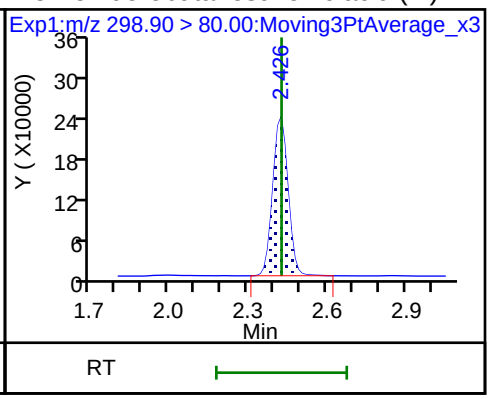
4 Perfluoropentanoic acid



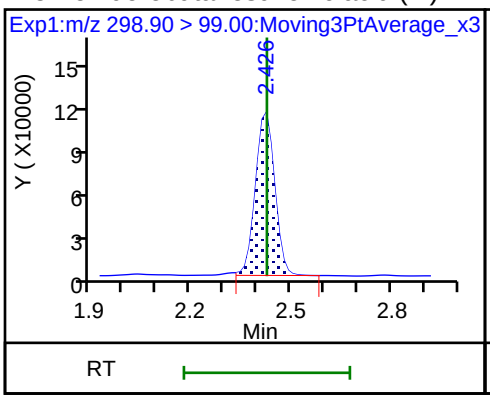
D 47 13C3 PFBS (M)



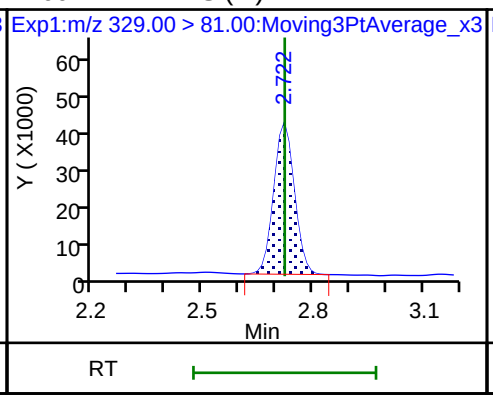
5 Perfluorobutanesulfonic acid (M)



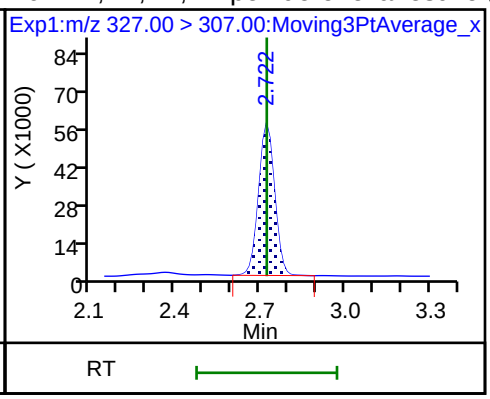
5 Perfluorobutanesulfonic acid (M)



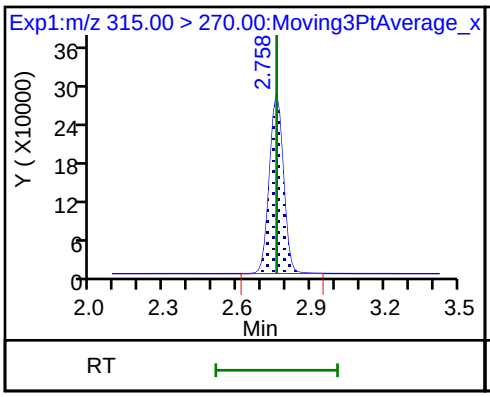
D 60 M2-4:2 FTS (M)



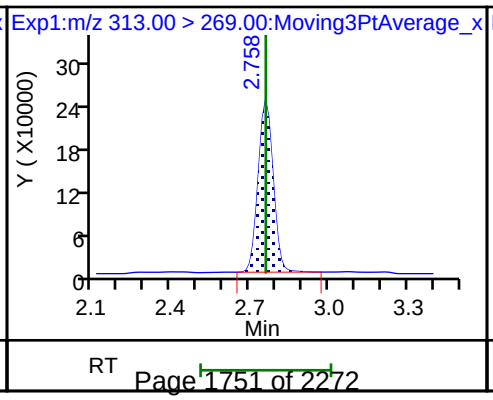
61 1H,1H,2H,2H-perfluorohexanesulfo (M)



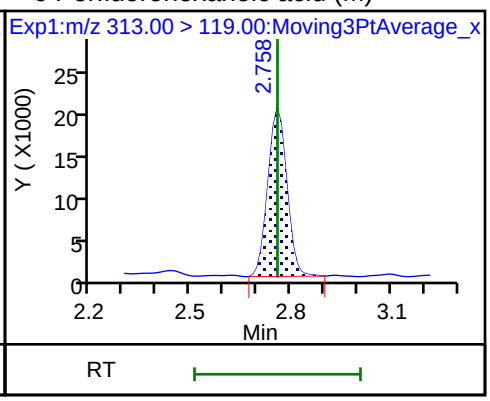
D 7 13C2 PFHxA



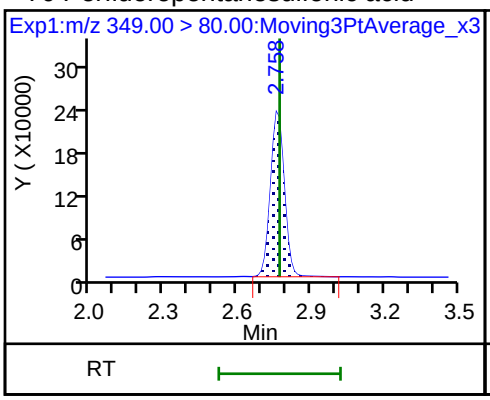
6 Perfluorohexanoic acid



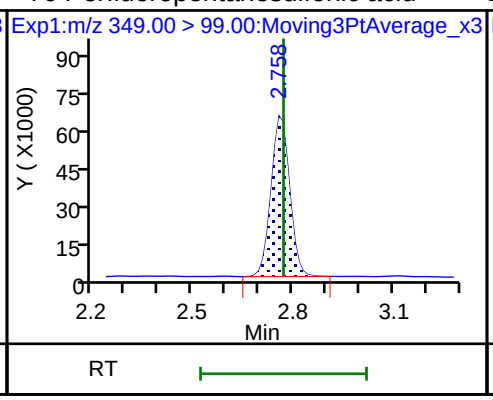
6 Perfluorohexanoic acid (M)



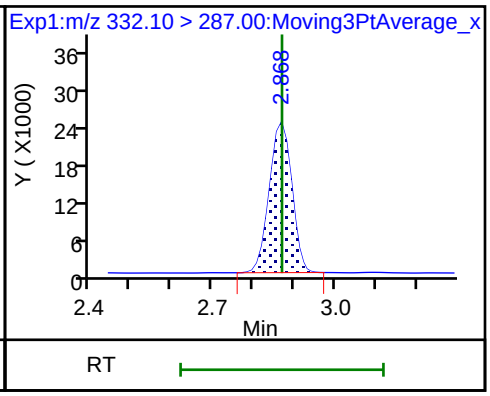
70 Perfluoropentanesulfonic acid



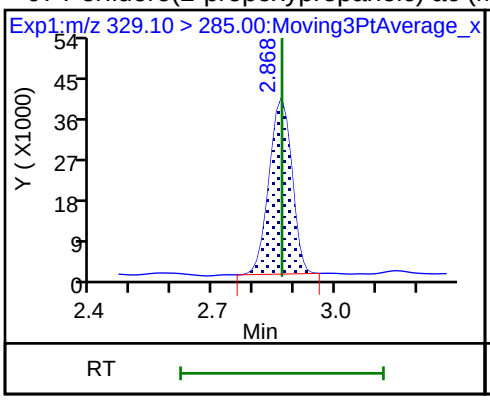
70 Perfluoropentanesulfonic acid



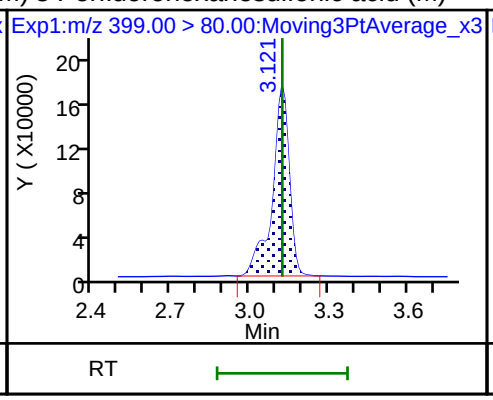
D 64 13C3 HFPO-DA



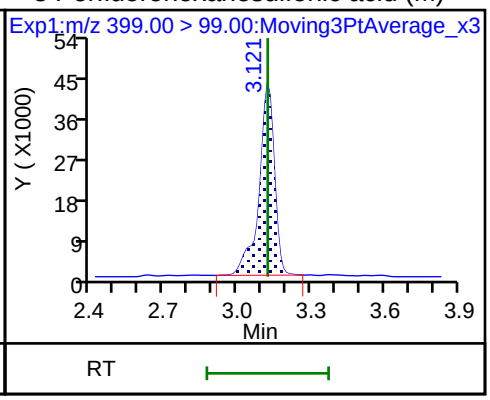
67 Perfluoro(2-propoxypropanoic) ac (M)



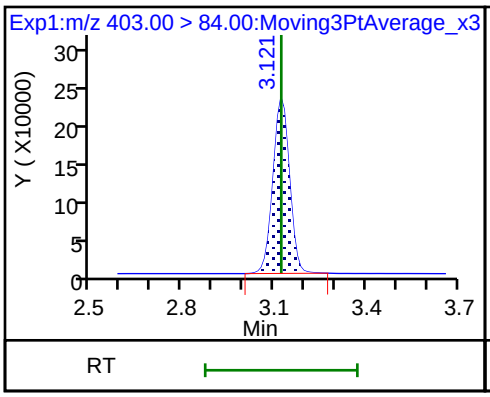
8 Perfluorohexanesulfonic acid (M)



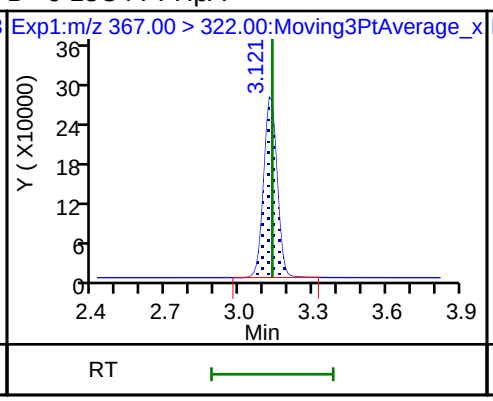
8 Perfluorohexanesulfonic acid (M)



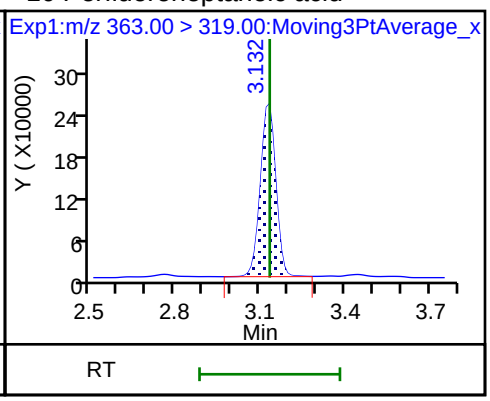
D 11 18O2 PFHxS



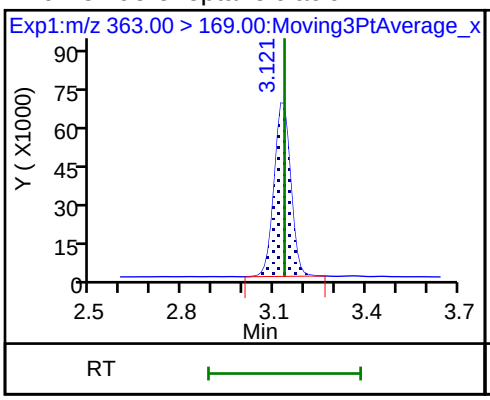
D 9 13C4 PFHpA



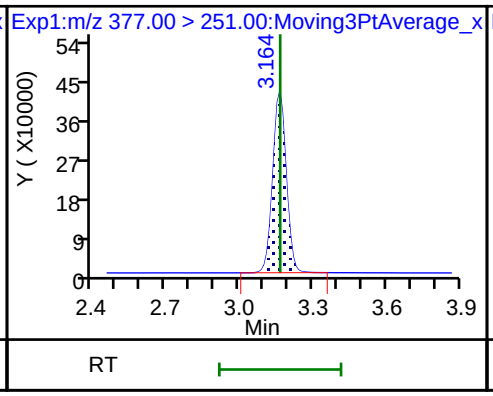
10 Perfluoroheptanoic acid



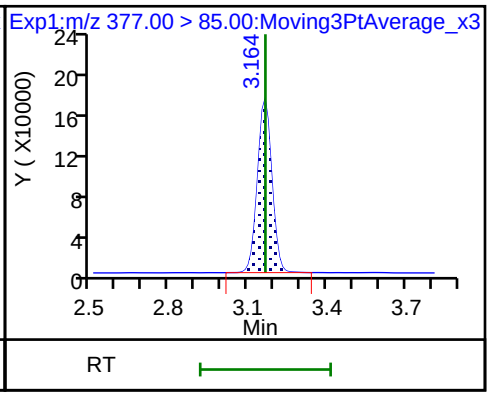
10 Perfluoroheptanoic acid



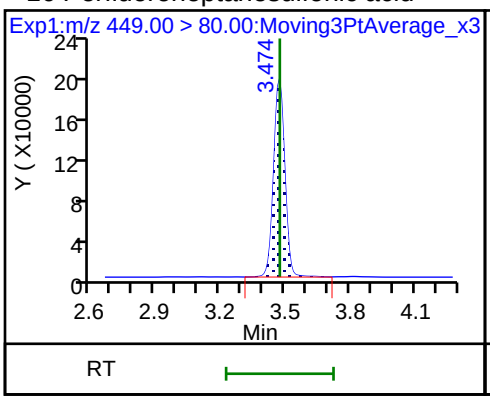
77 DONA



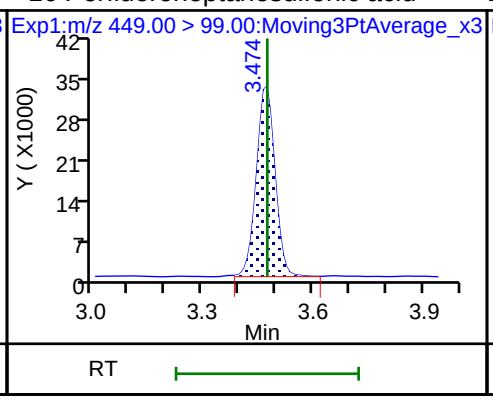
77 DONA



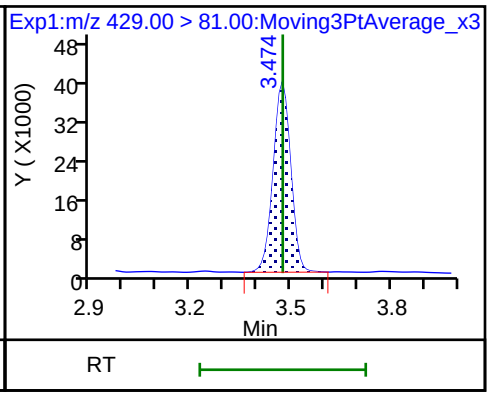
16 Perfluoroheptanesulfonic acid



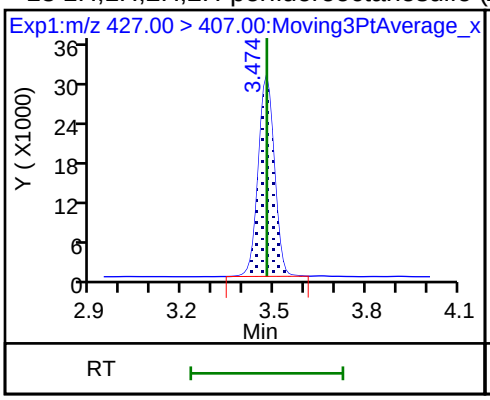
16 Perfluoroheptanesulfonic acid



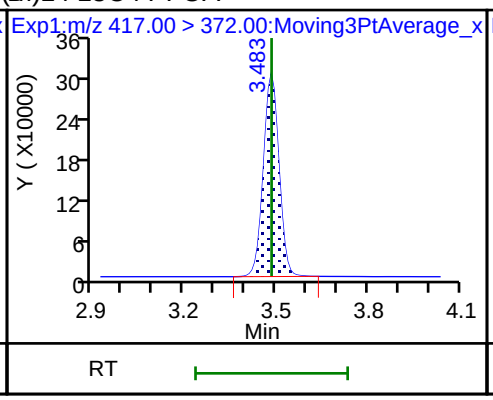
D 12 M2-6:2 FTS



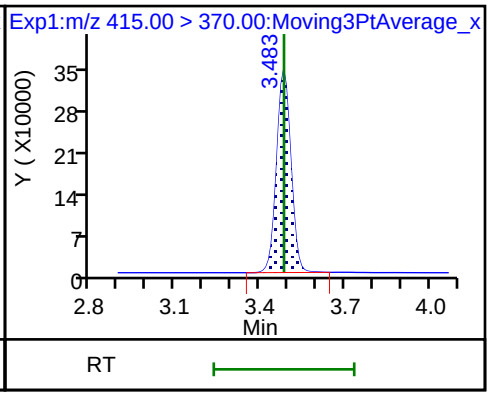
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



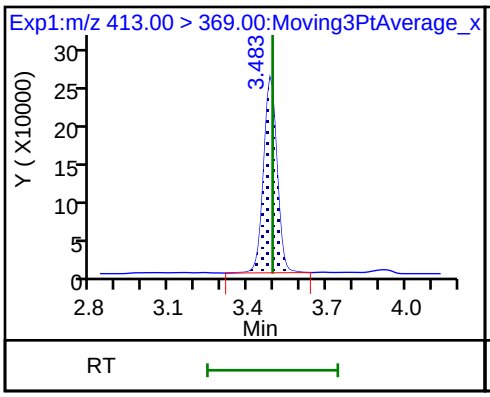
D 14 13C4 PFOA



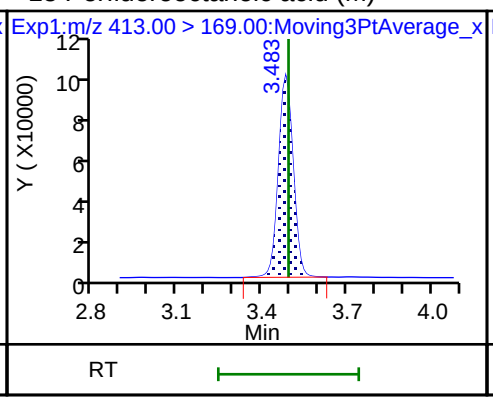
* 62 13C2 PFOA



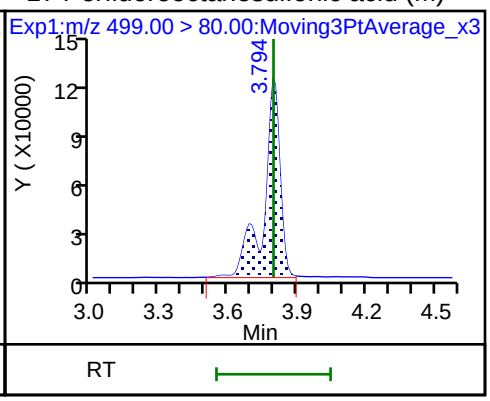
15 Perfluorooctanoic acid



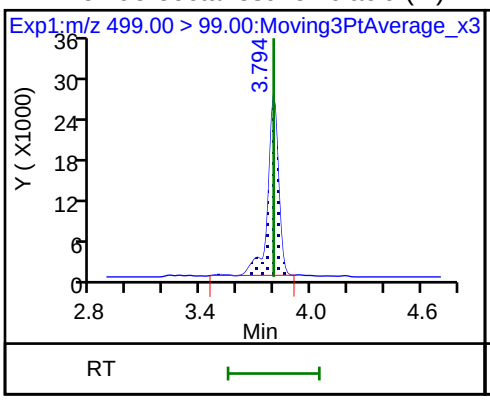
15 Perfluorooctanoic acid (M)



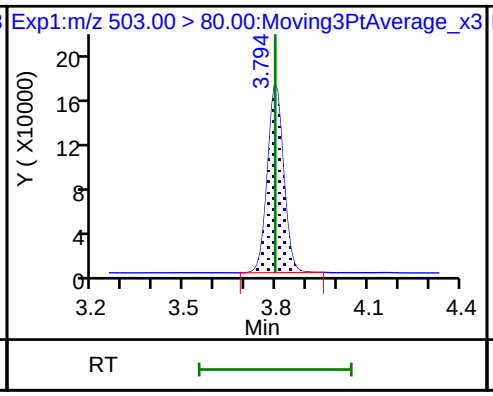
17 Perfluorooctanesulfonic acid (M)



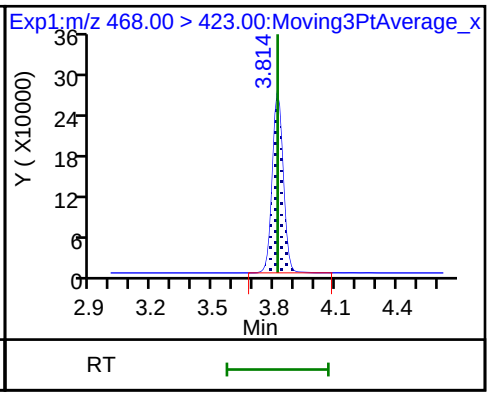
17 Perfluorooctanesulfonic acid (M)



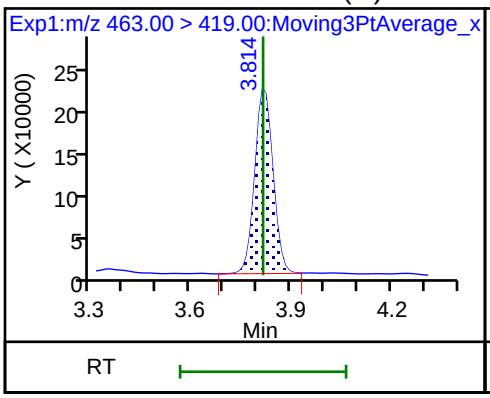
D 18 13C4 PFOS



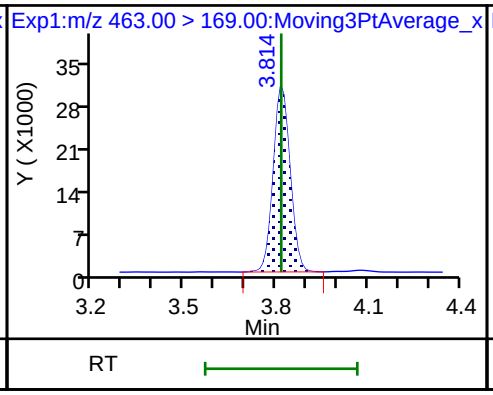
D 19 13C5 PFNA



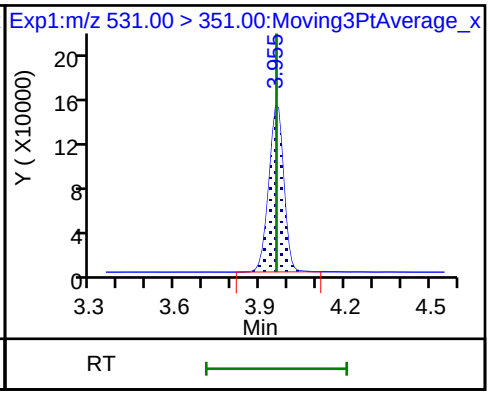
20 Perfluorononanoic acid (M)



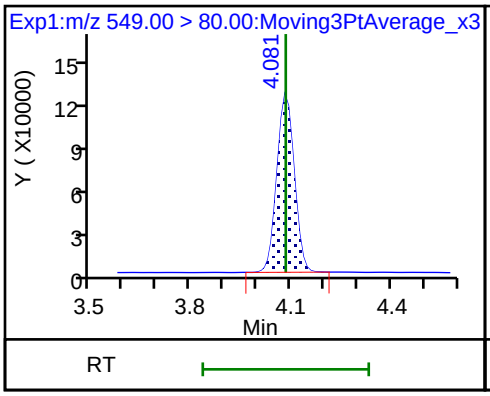
20 Perfluorononanoic acid



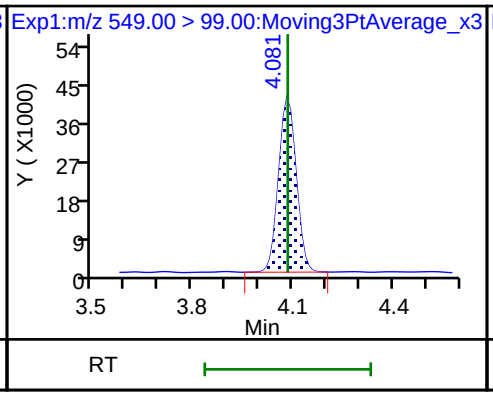
69 9-Chlorohexadecafluoro-3-oxanona



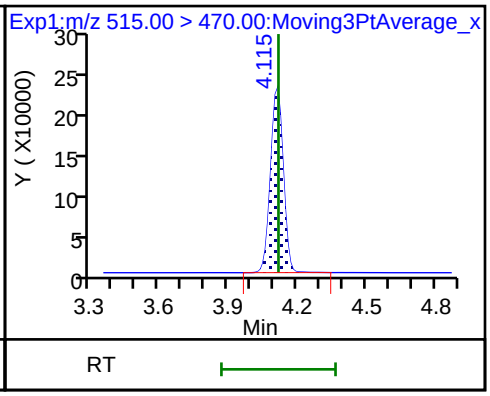
68 Perfluorononanesulfonic acid



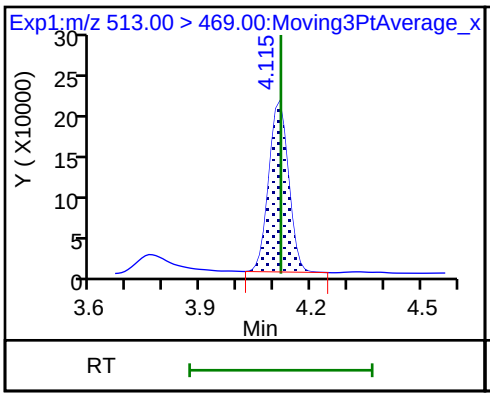
68 Perfluorononanesulfonic acid



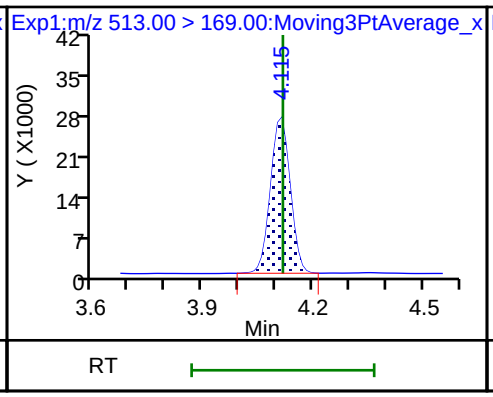
D 23 13C2 PFDA



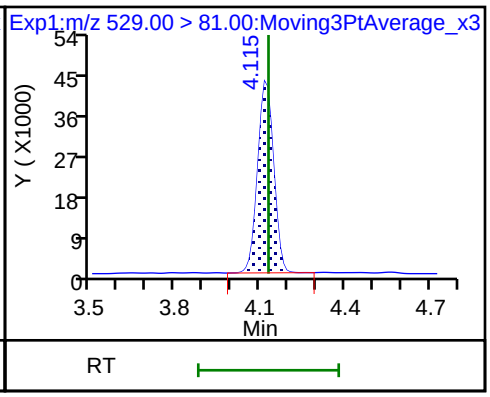
24 Perfluorodecanoic acid



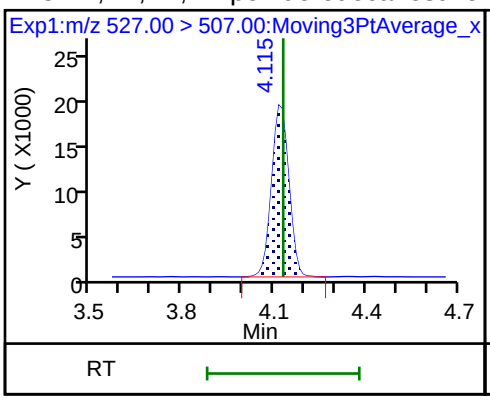
24 Perfluorodecanoic acid



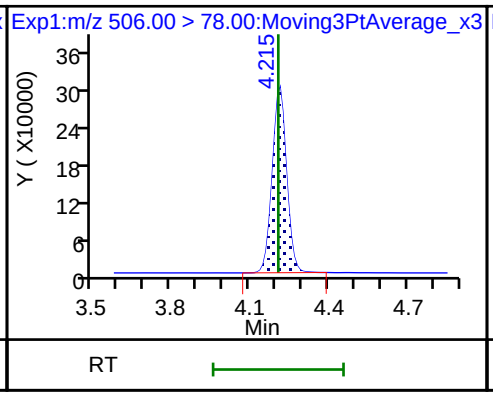
D 26 M2-8:2 FTS



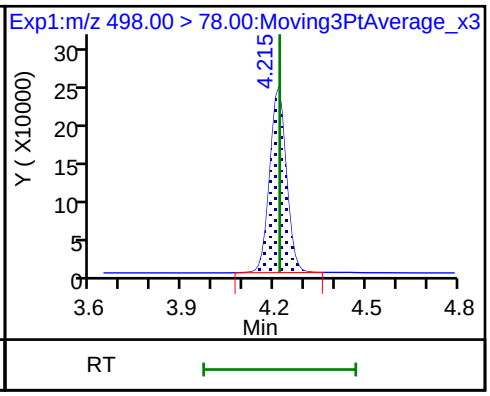
25 1H,1H,2H,2H-perfluorodecanesulfo



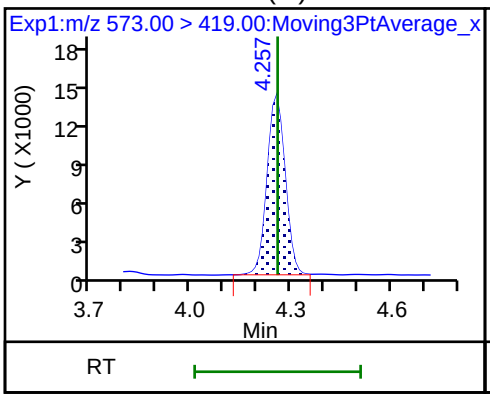
D 21 13C8 FOSA



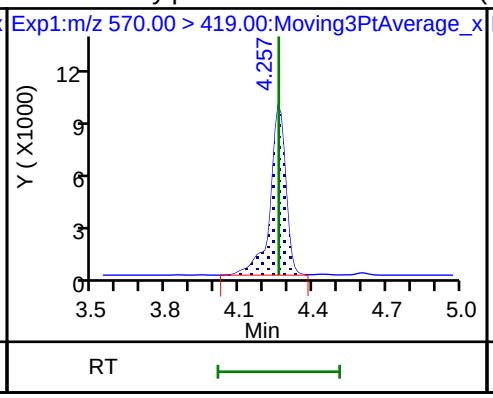
22 Perfluorooctanesulfonamide



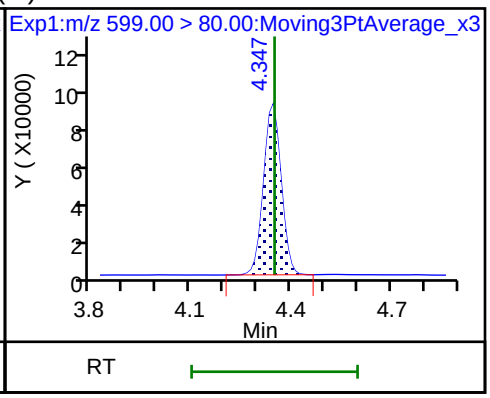
D 27 d3-NMeFOSAA (M)



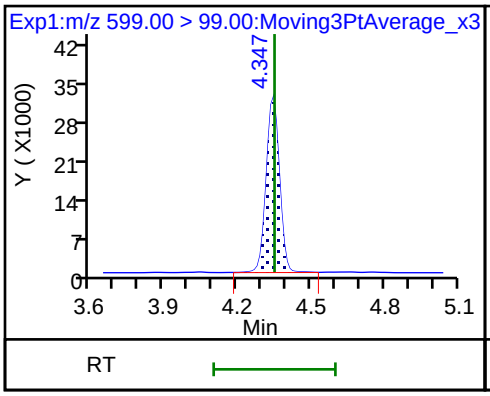
28 N-methylperfluorooctanesulfonami (M)



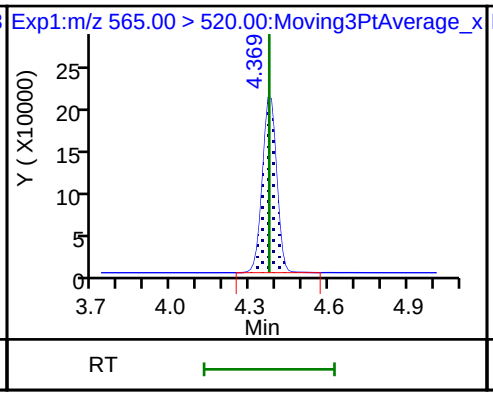
29 Perfluorodecanesulfonic acid



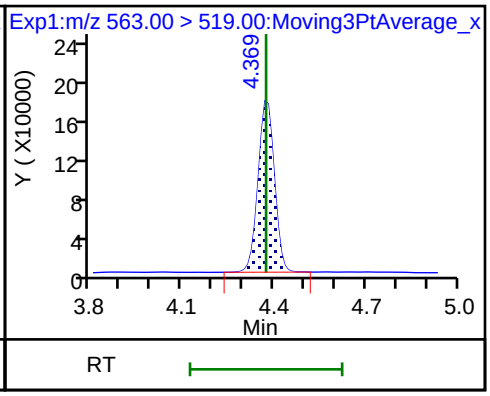
29 Perfluorodecanesulfonic acid



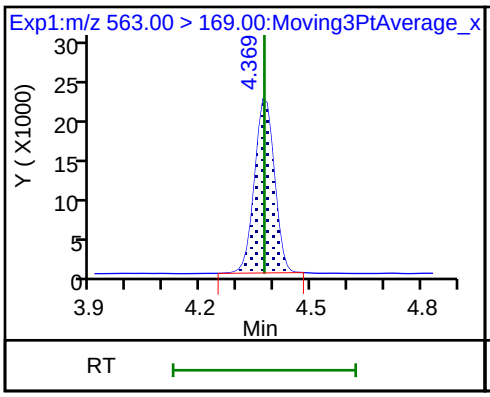
D 30 13C2 PFUnA



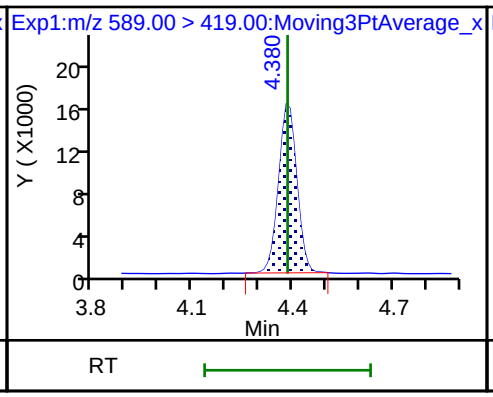
31 Perfluoroundecanoic acid



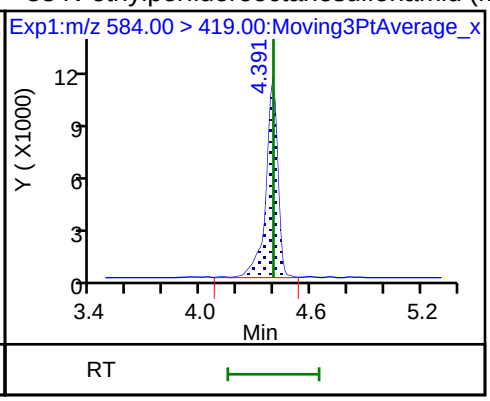
31 Perfluoroundecanoic acid



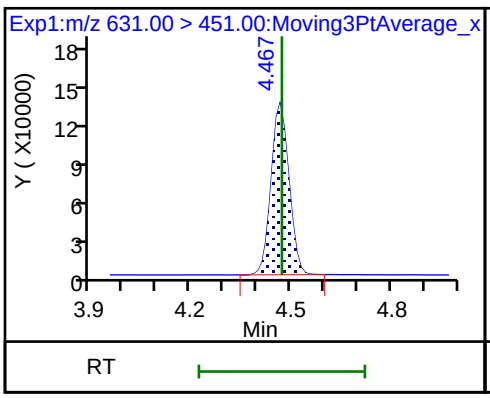
D 32 d5-NEtFOSAA



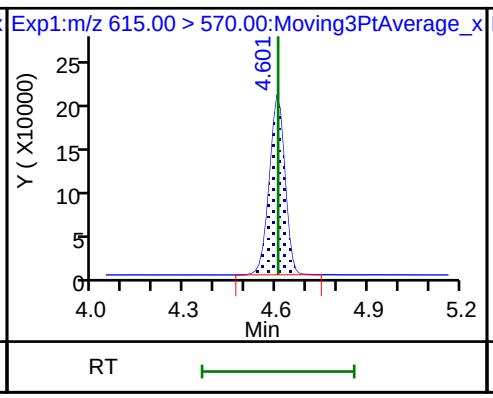
33 N-ethylperfluorooctanesulfonamid (M)



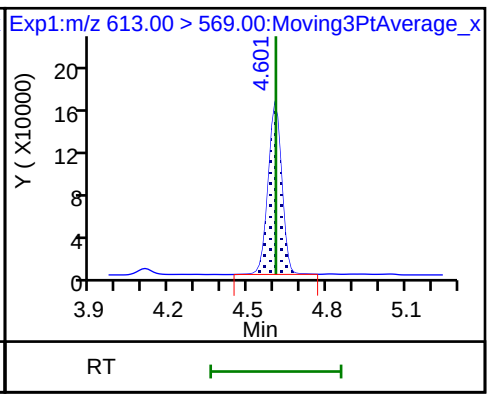
66 11-Chloroeicosafluoro-3-oxaundec



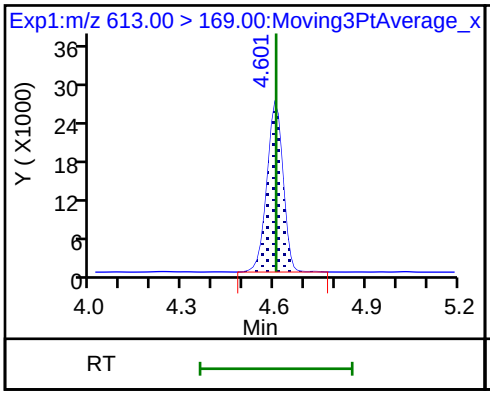
D 36 13C2 PFDoA



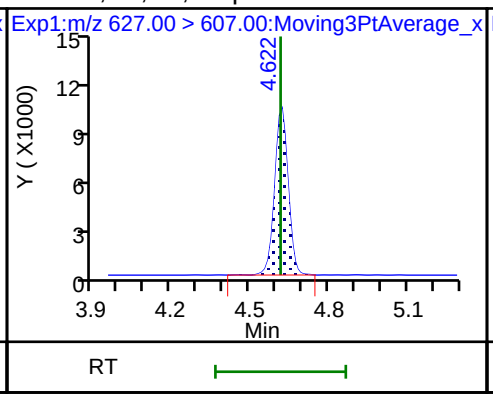
37 Perfluorododecanoic acid



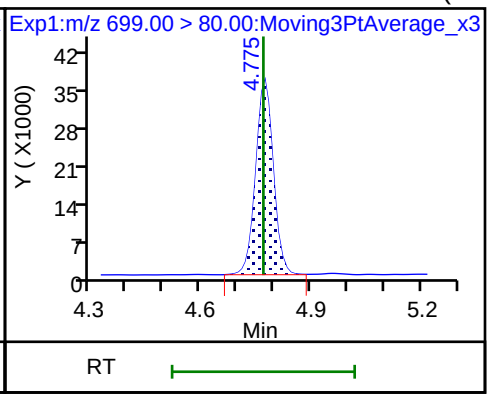
37 Perfluorododecanoic acid



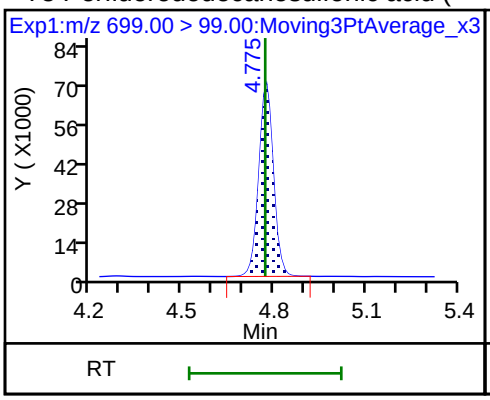
74 1H,1H,2H,2H-perfluorododecanesul



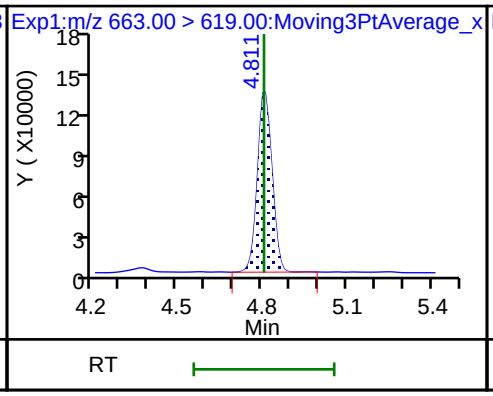
75 Perfluorododecanesulfonic acid (



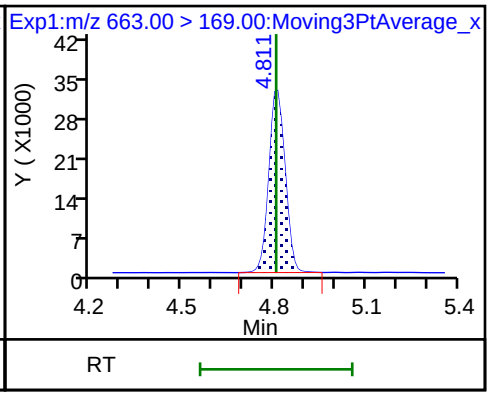
75 Perfluorododecanesulfonic acid (



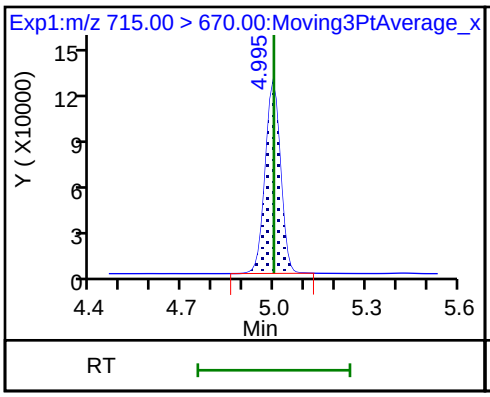
41 Perfluorotridecanoic acid



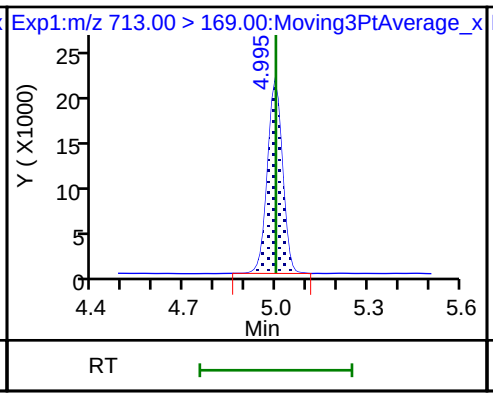
41 Perfluorotridecanoic acid



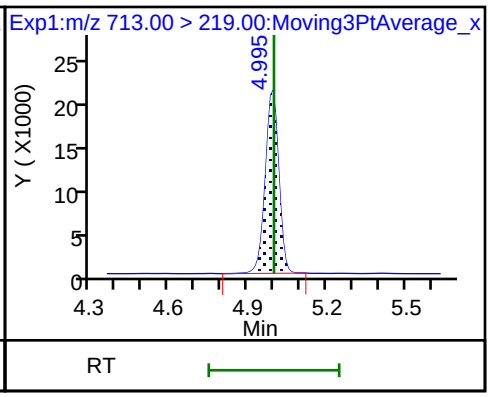
D 43 13C2 PFTeDA



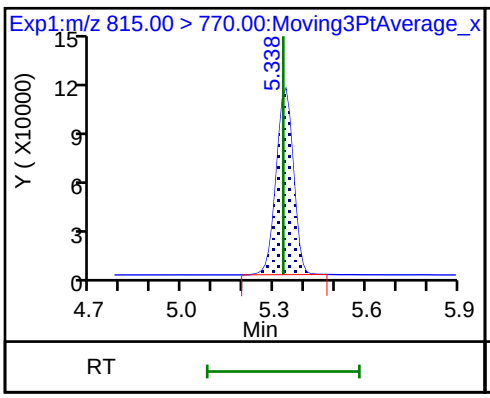
42 Perfluorotetradecanoic acid



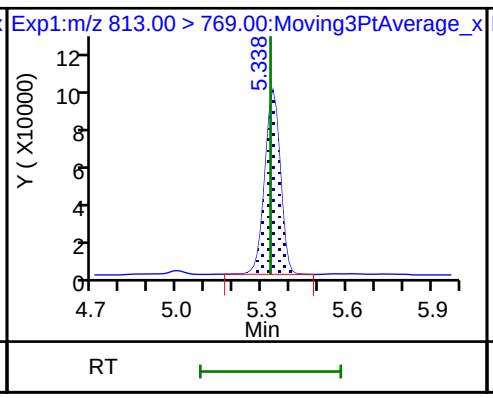
42 Perfluorotetradecanoic acid



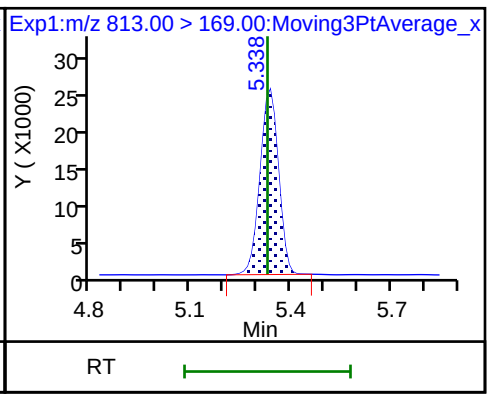
D 44 13C2 PFHxDA



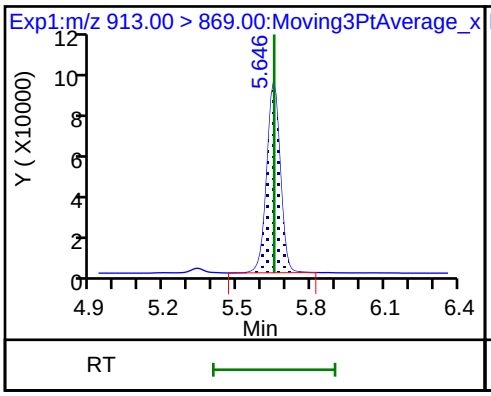
45 Perfluorohexadecanoic acid



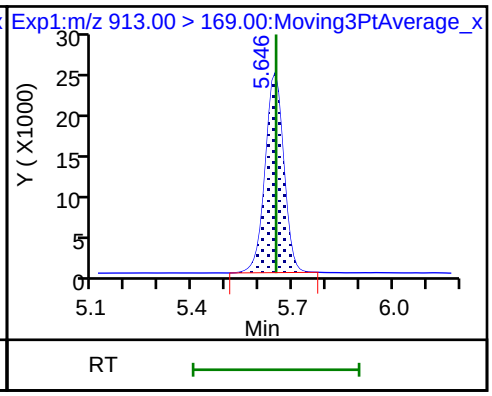
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

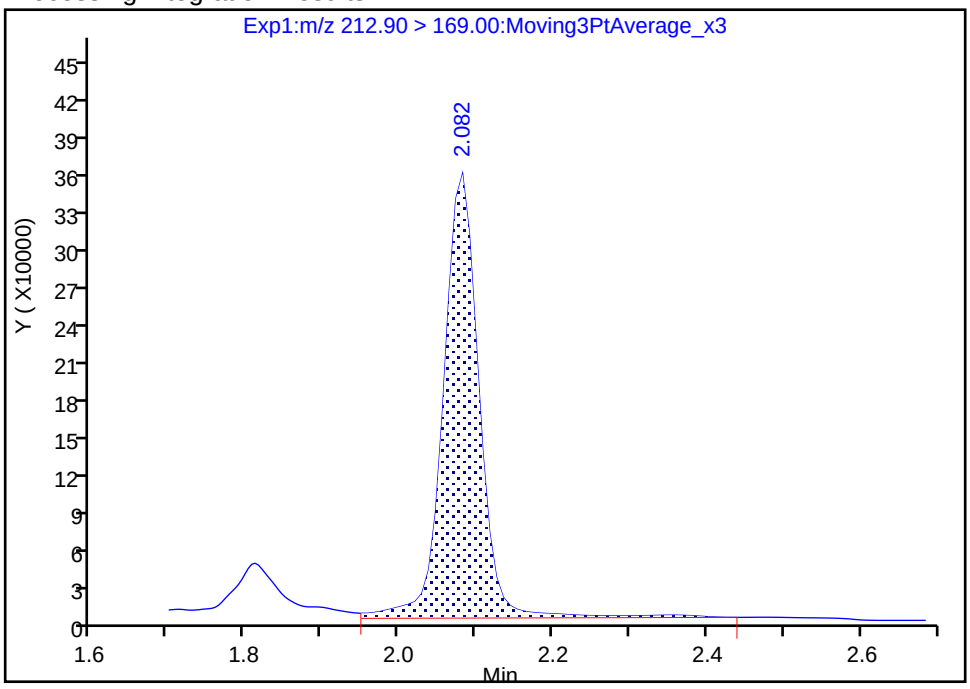
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A13.d				
Injection Date:	26-Feb-2021 14:25:50	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-C MSD				
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

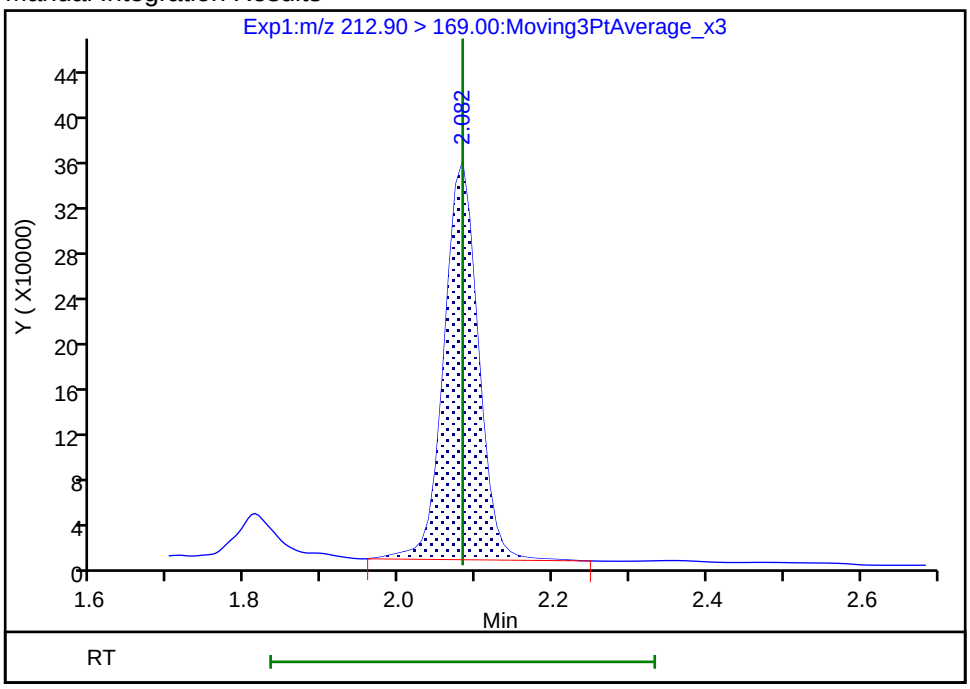
Processing Integration Results

RT: 2.08
Area: 1141244
Amount: 1.173069
Amount Units: ng/ml



Manual Integration Results

RT: 2.08
Area: 1075103
Amount: 1.105084
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:07:56

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

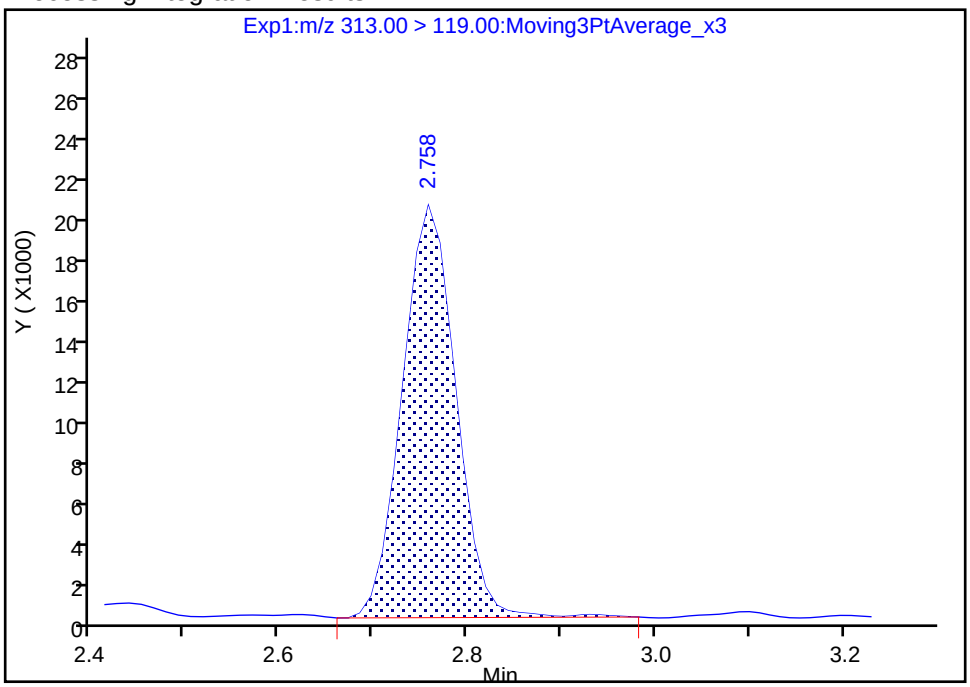
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A13.d				
Injection Date:	26-Feb-2021 14:25:50	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-C MSD				
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

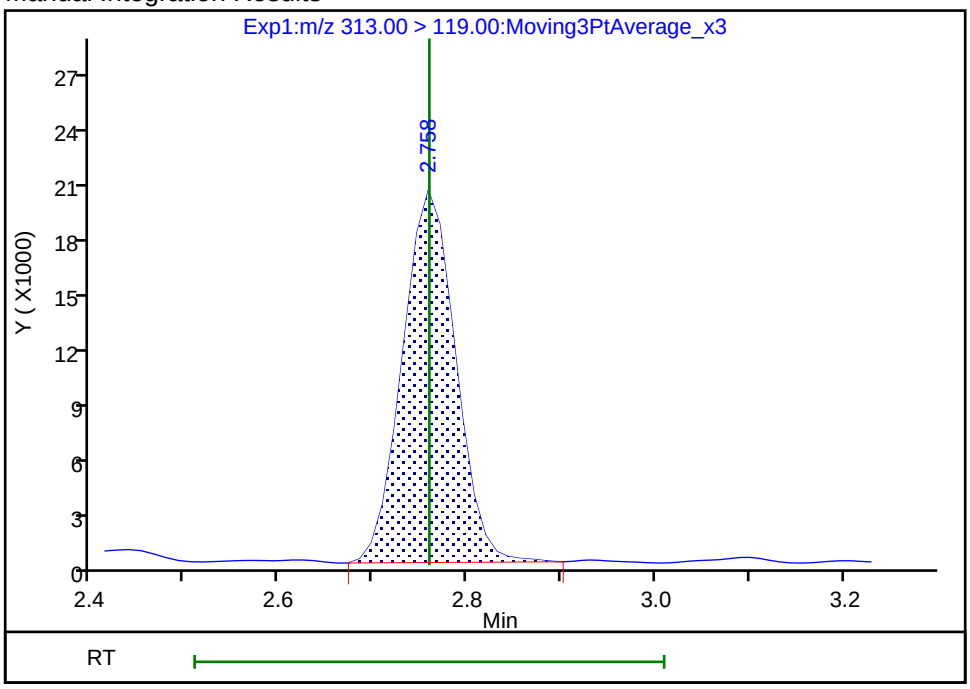
Processing Integration Results

RT: 2.76
Area: 79040
Amount: 0.971756
Amount Units: ng/ml



Manual Integration Results

RT: 2.76
Area: 78474
Amount: 0.971756
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:08:26

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

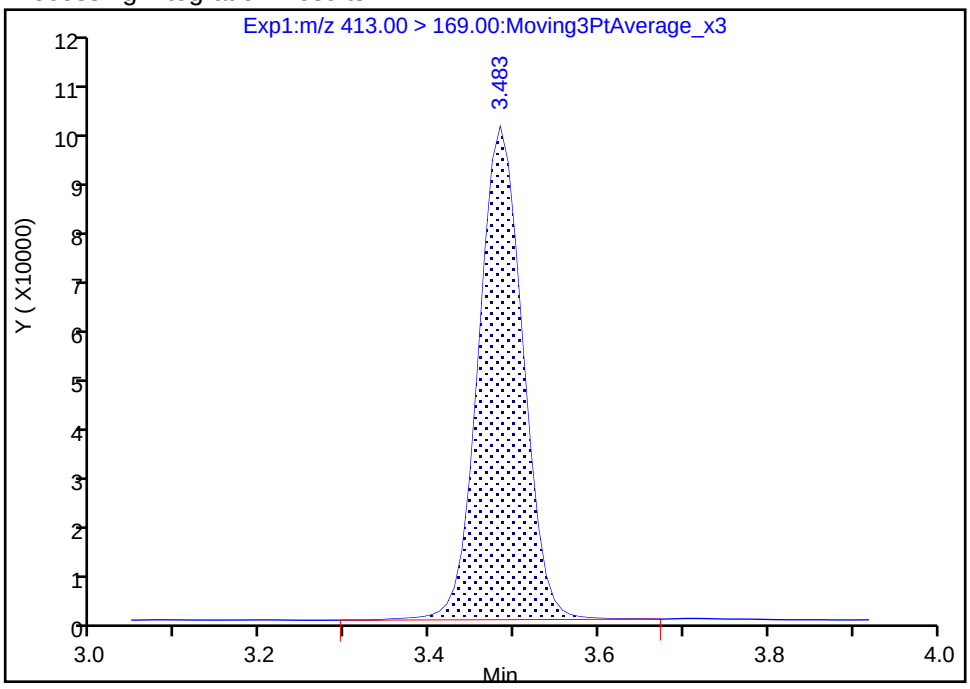
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A13.d				
Injection Date:	26-Feb-2021 14:25:50	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-C MSD				
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

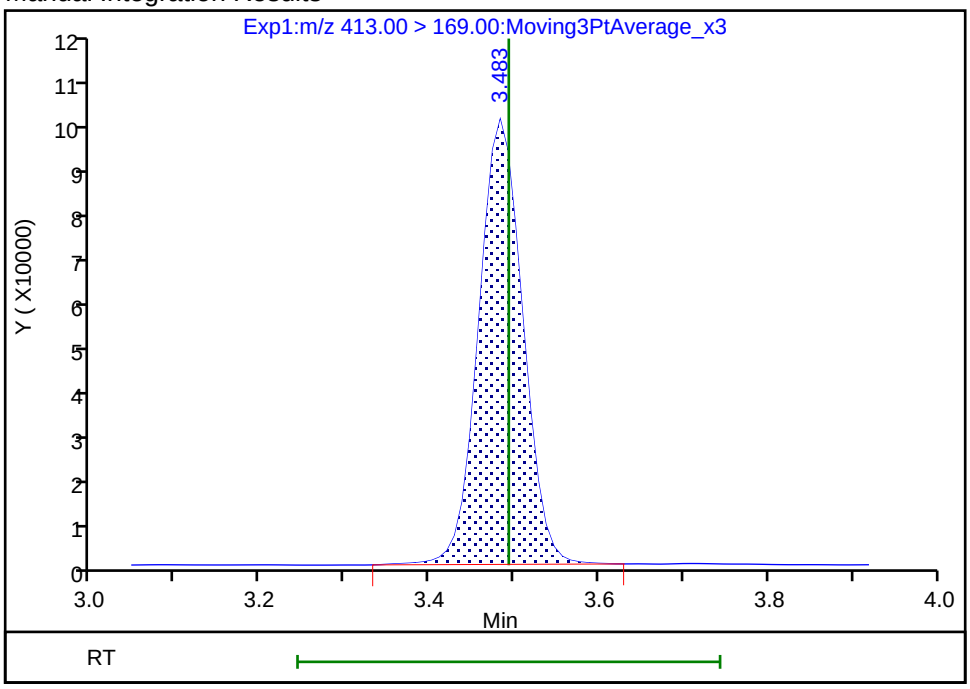
Processing Integration Results

RT: 3.48
Area: 361139
Amount: 1.009548
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 360122
Amount: 1.009548
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:09:10

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

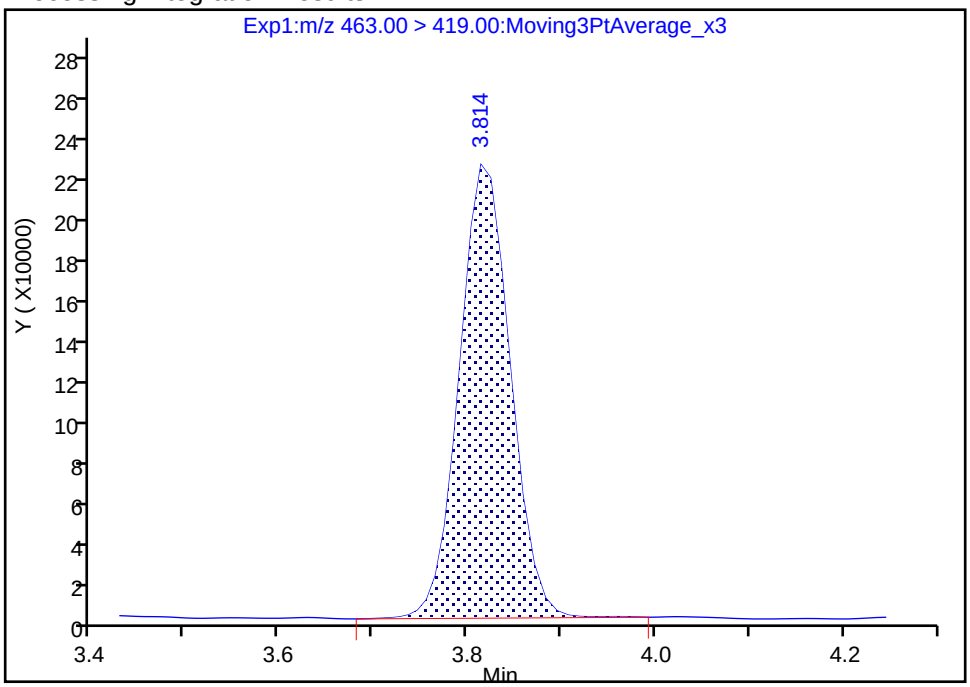
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A13.d				
Injection Date:	26-Feb-2021 14:25:50	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-C MSD				
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

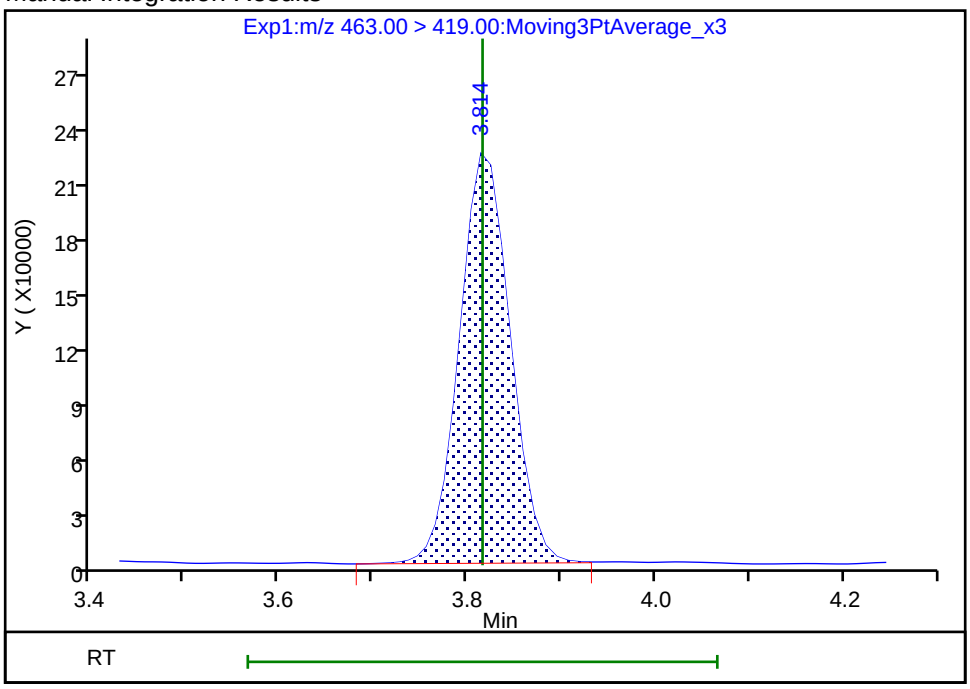
Processing Integration Results

RT: 3.81
Area: 828699
Amount: 0.975692
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 827654
Amount: 0.974462
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:09:31

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

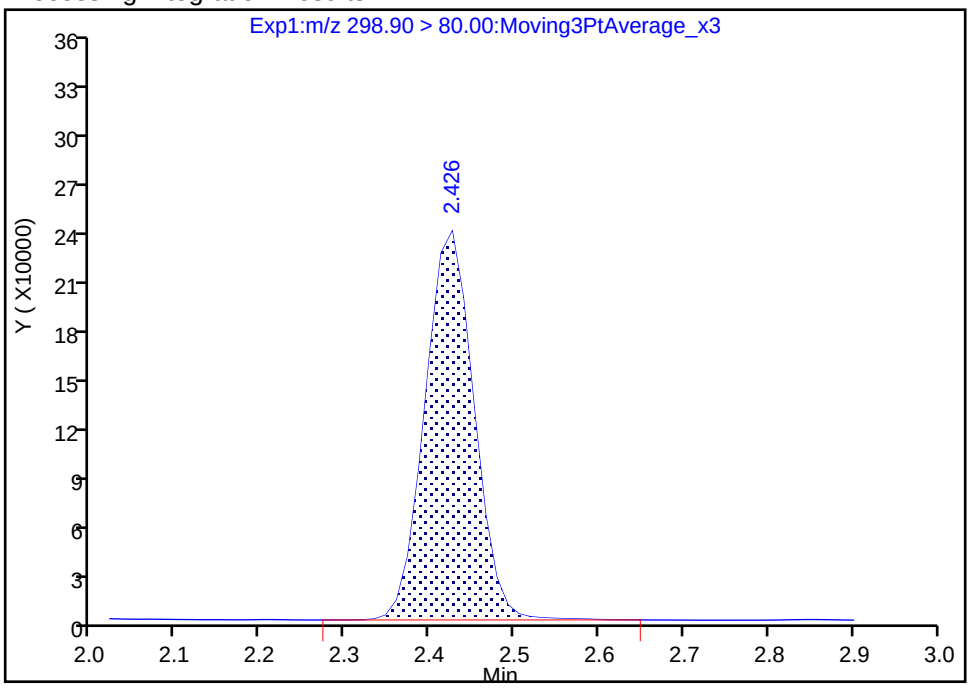
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A13.d				
Injection Date:	26-Feb-2021 14:25:50	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-C MSD				
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

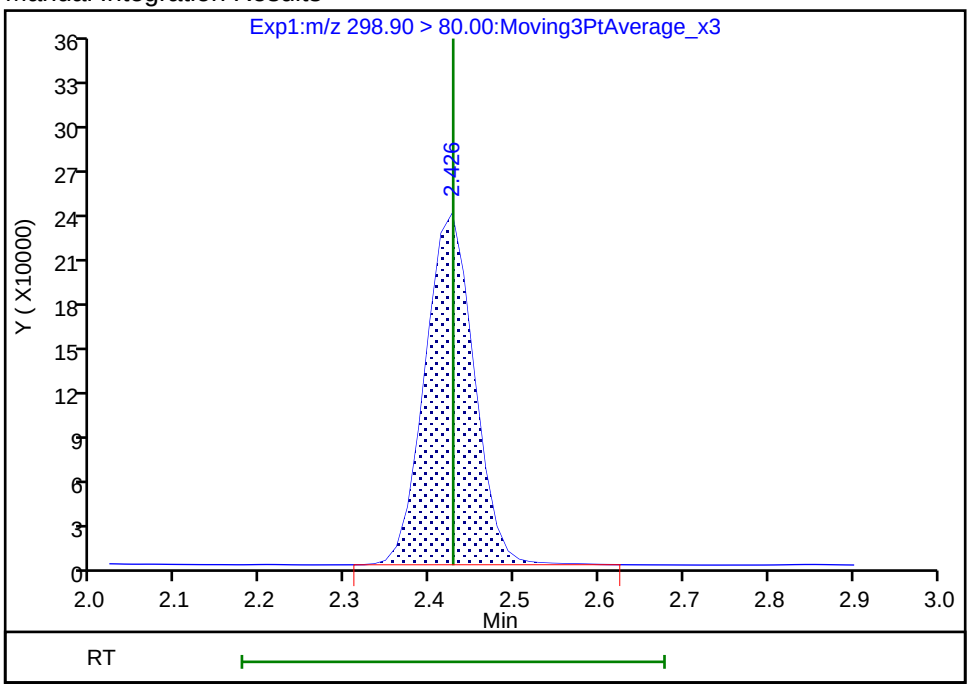
Processing Integration Results

RT: 2.43
Area: 952112
Amount: 0.814638
Amount Units: ng/ml



Manual Integration Results

RT: 2.43
Area: 950735
Amount: 0.813459
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:08:04

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

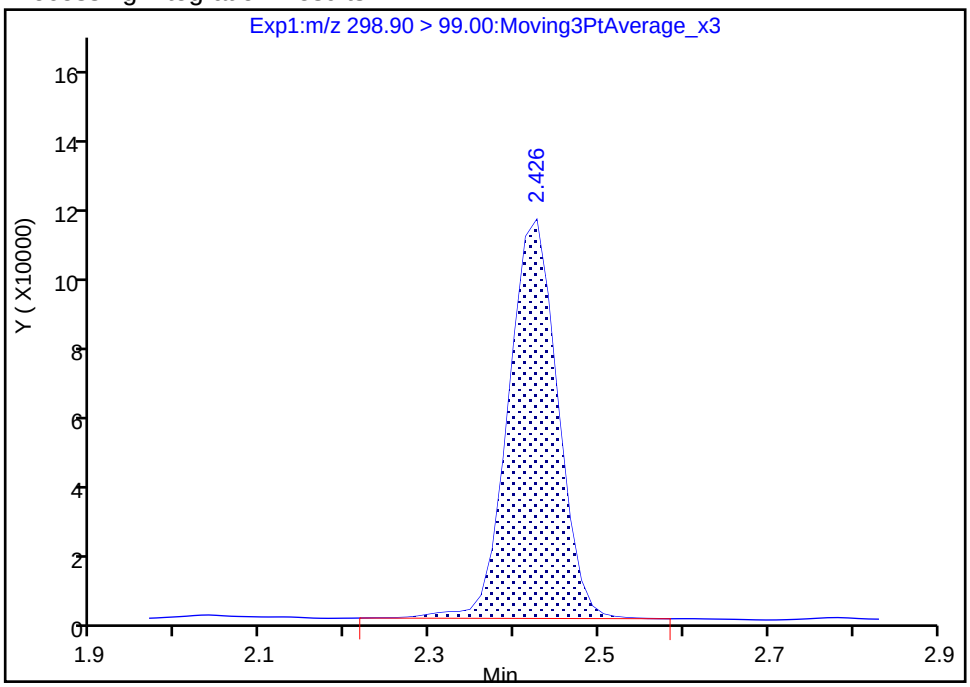
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A13.d				
Injection Date:	26-Feb-2021 14:25:50	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-C MSD				
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

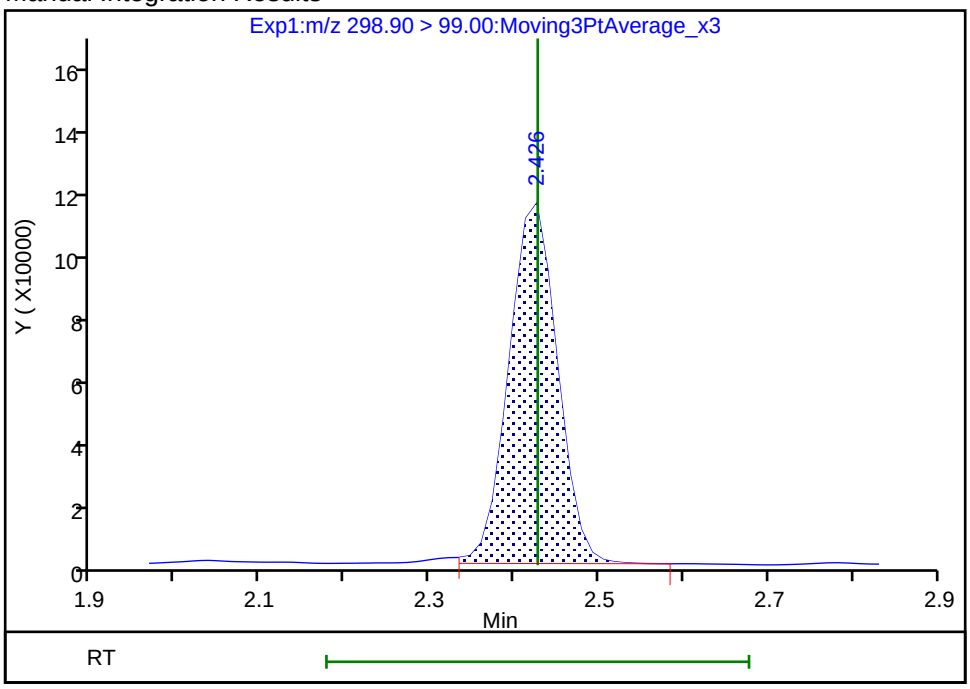
Processing Integration Results

RT: 2.43
Area: 448866
Amount: 0.814638
Amount Units: ng/ml



Manual Integration Results

RT: 2.43
Area: 444261
Amount: 0.813459
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:08:09
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

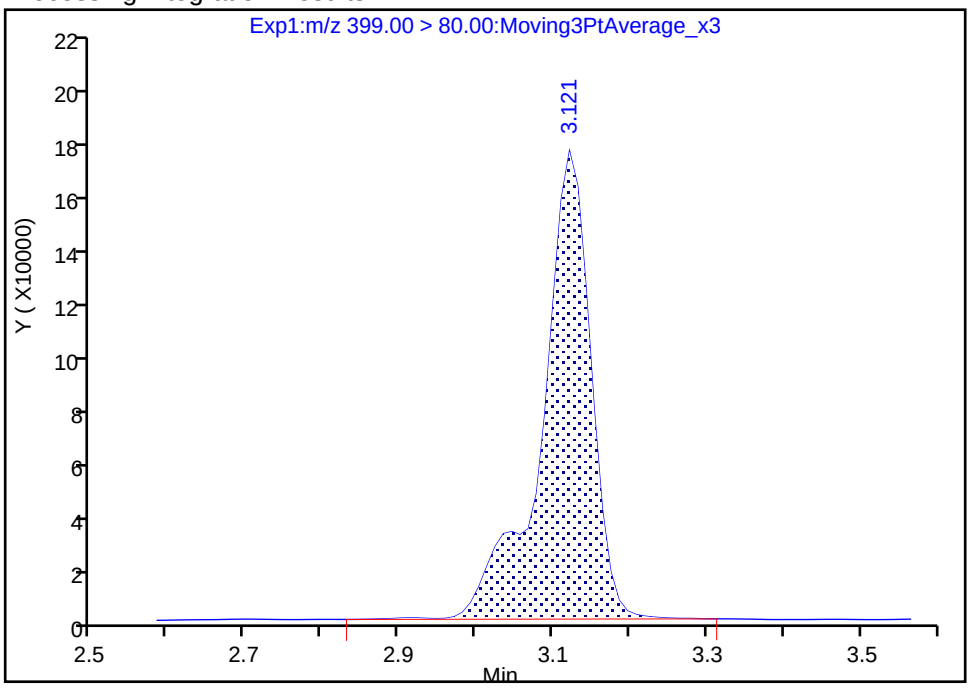
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A13.d				
Injection Date:	26-Feb-2021 14:25:50	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-C MSD				
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

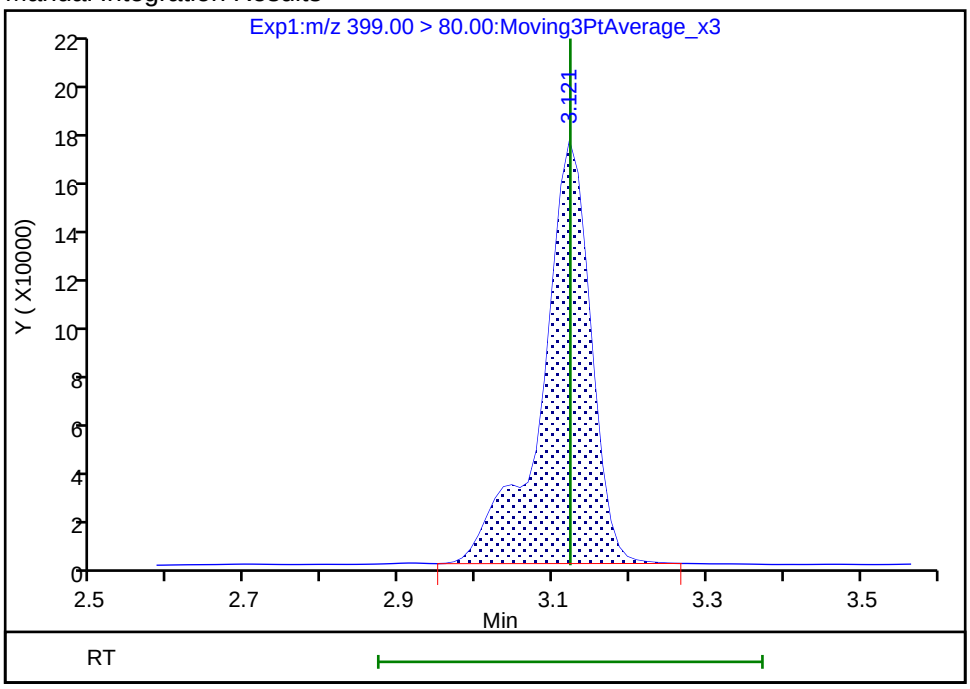
Processing Integration Results

RT: 3.12
Area: 787891
Amount: 0.919537
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 781563
Amount: 0.912152
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:08:43

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

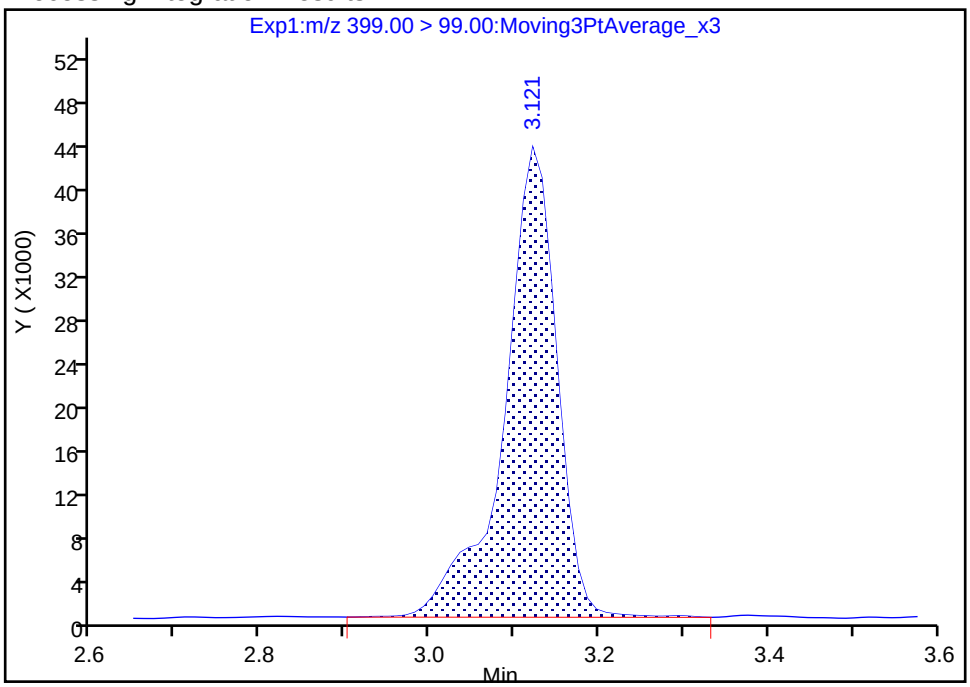
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A13.d				
Injection Date:	26-Feb-2021 14:25:50	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-C MSD				
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

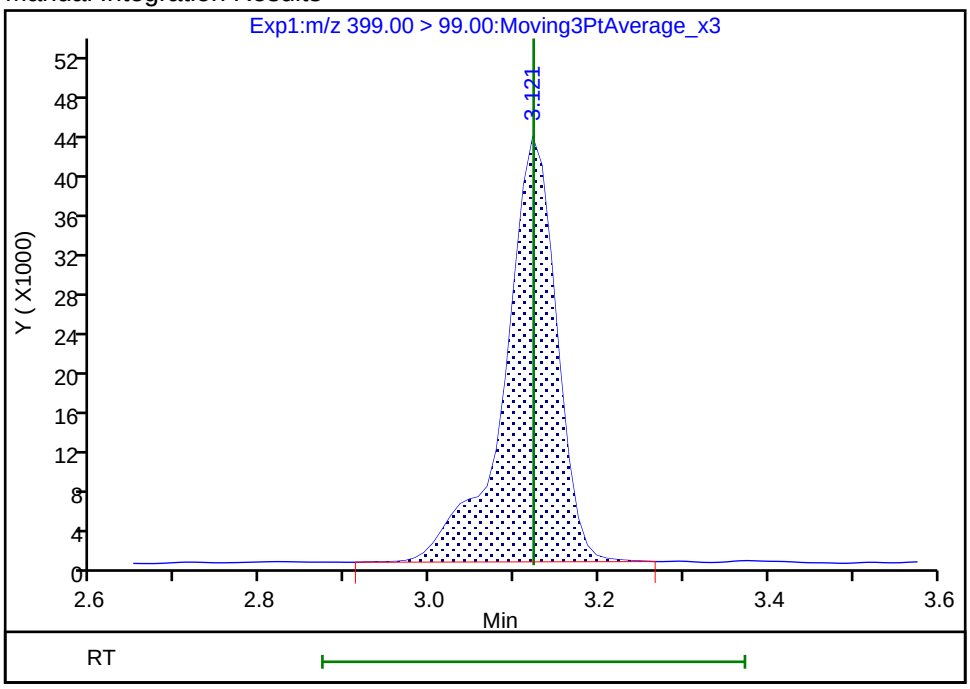
Processing Integration Results

RT: 3.12
Area: 187454
Amount: 0.919537
Amount Units: ng/ml



Manual Integration Results

RT: 3.12
Area: 186081
Amount: 0.912152
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:08:49

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

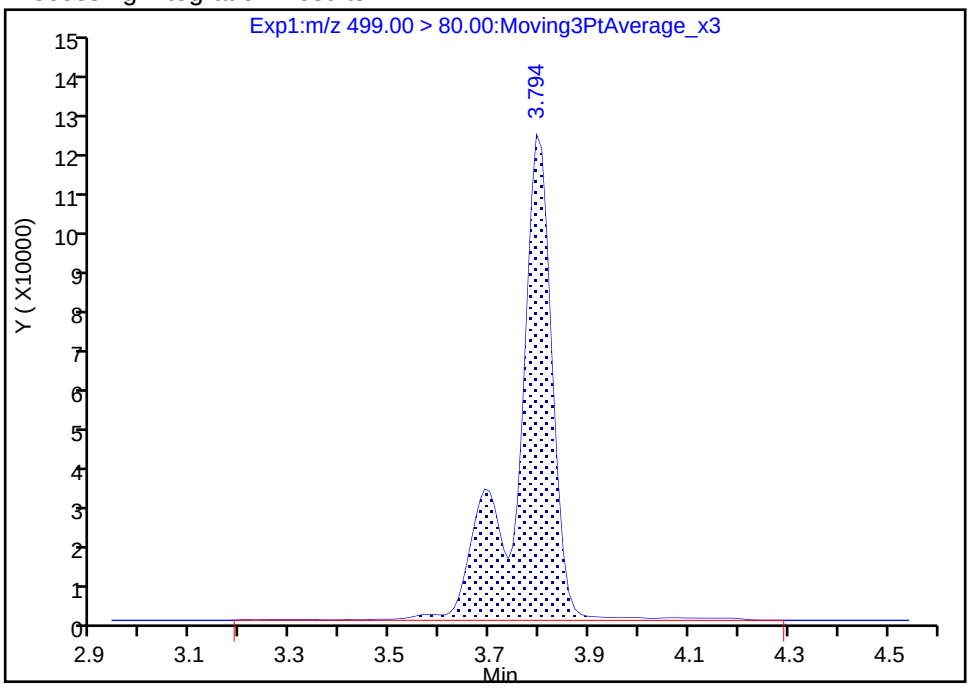
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A13.d				
Injection Date:	26-Feb-2021 14:25:50	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-C MSD				
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

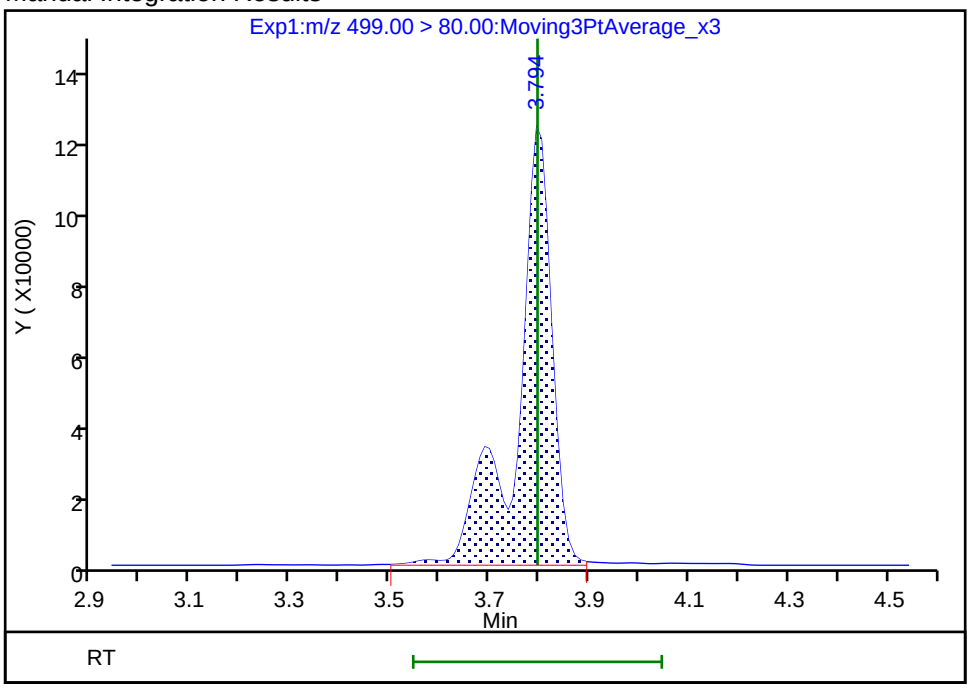
Processing Integration Results

RT: 3.79
Area: 607987
Amount: 1.025731
Amount Units: ng/ml



Manual Integration Results

RT: 3.79
Area: 595621
Amount: 1.004868
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:09:19

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

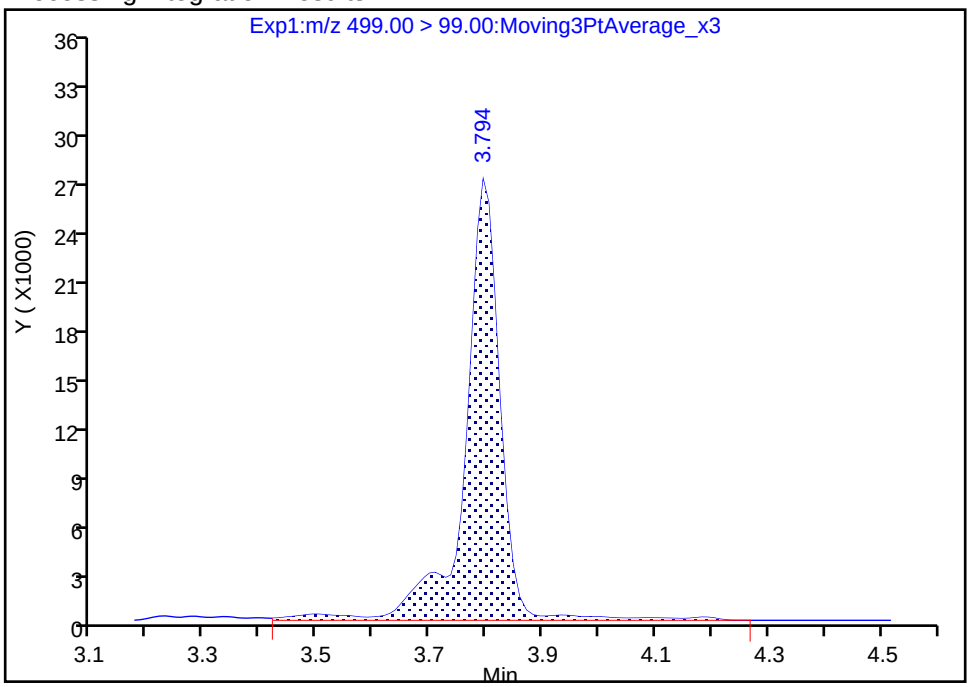
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A13.d				
Injection Date:	26-Feb-2021 14:25:50	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-C MSD				
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

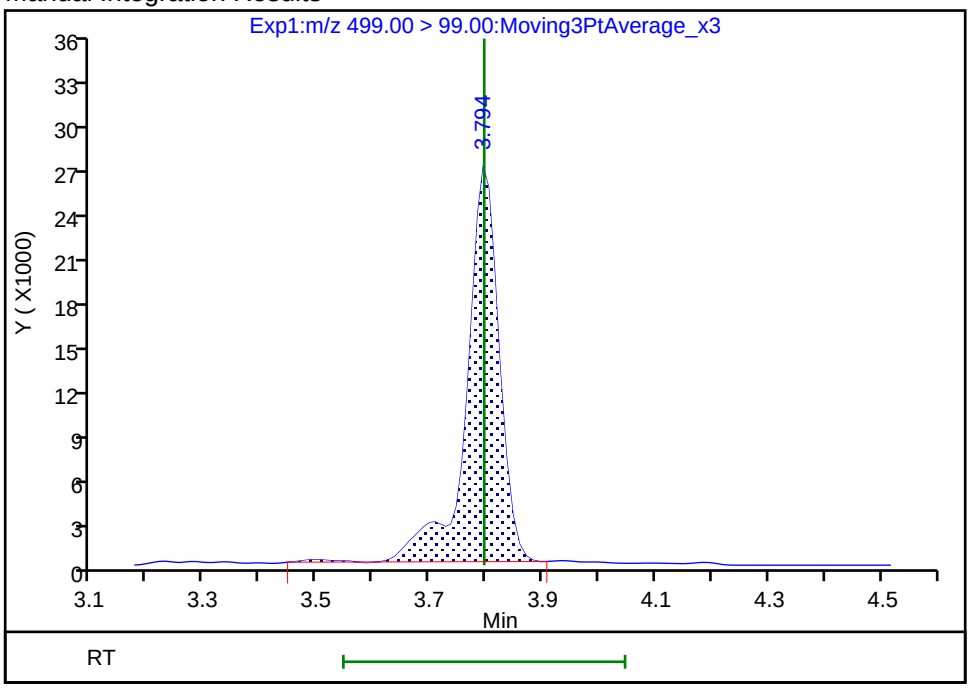
Processing Integration Results

RT: 3.79
Area: 116449
Amount: 1.025731
Amount Units: ng/ml



Manual Integration Results

RT: 3.79
Area: 106838
Amount: 1.004868
Amount Units: ng/ml



Reviewer: deannd, 01-Mar-2021 10:48:01

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

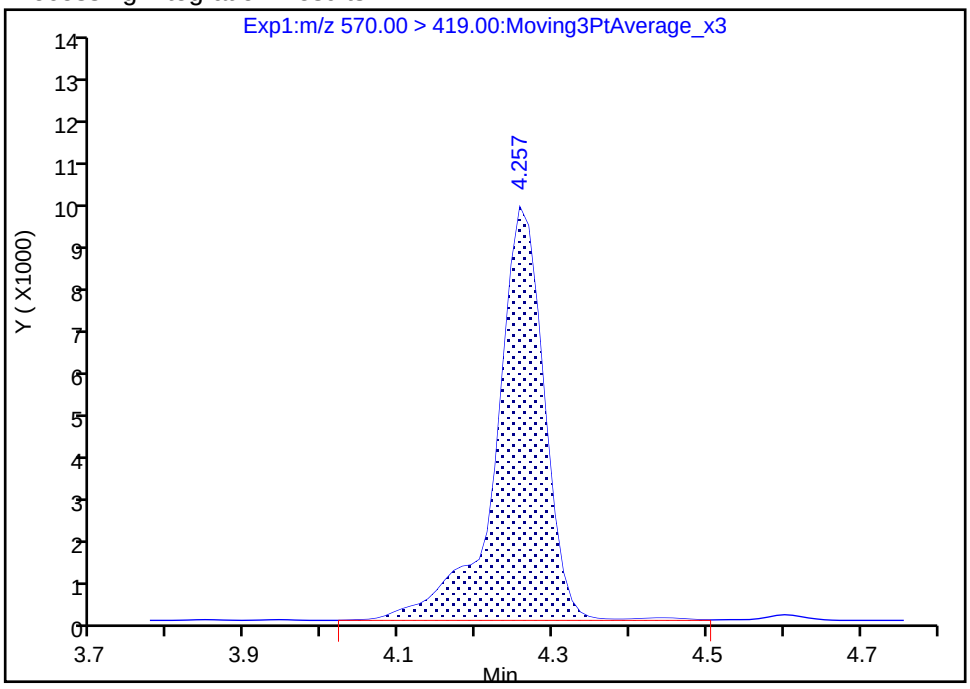
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A13.d				
Injection Date:	26-Feb-2021 14:25:50	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-C MSD				
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

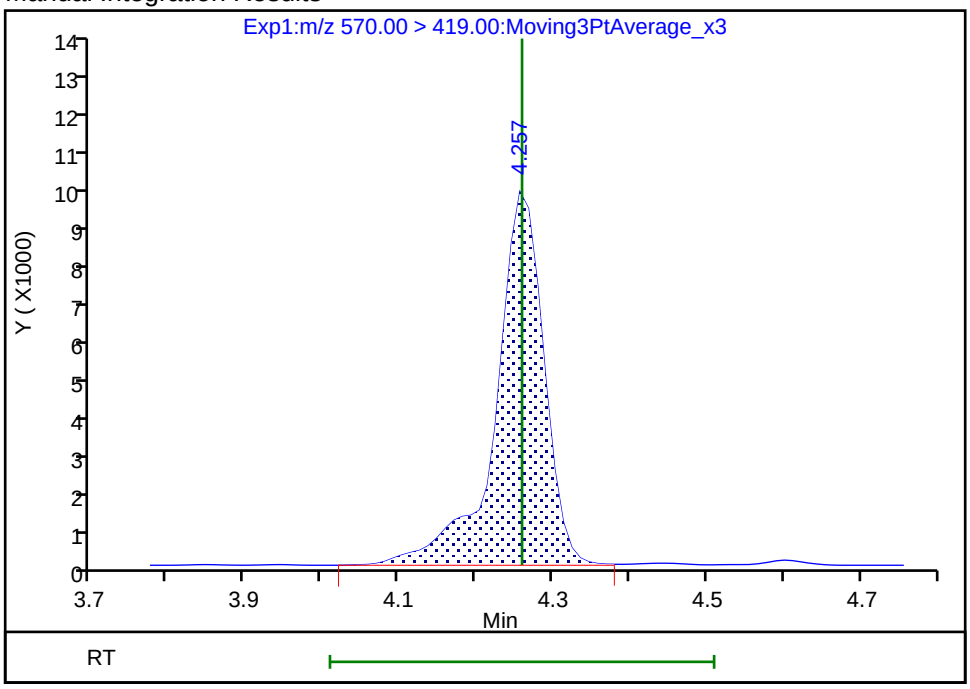
Processing Integration Results

RT: 4.26
Area: 42212
Amount: 1.123559
Amount Units: ng/ml



Manual Integration Results

RT: 4.26
Area: 41959
Amount: 1.116825
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:09:39

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

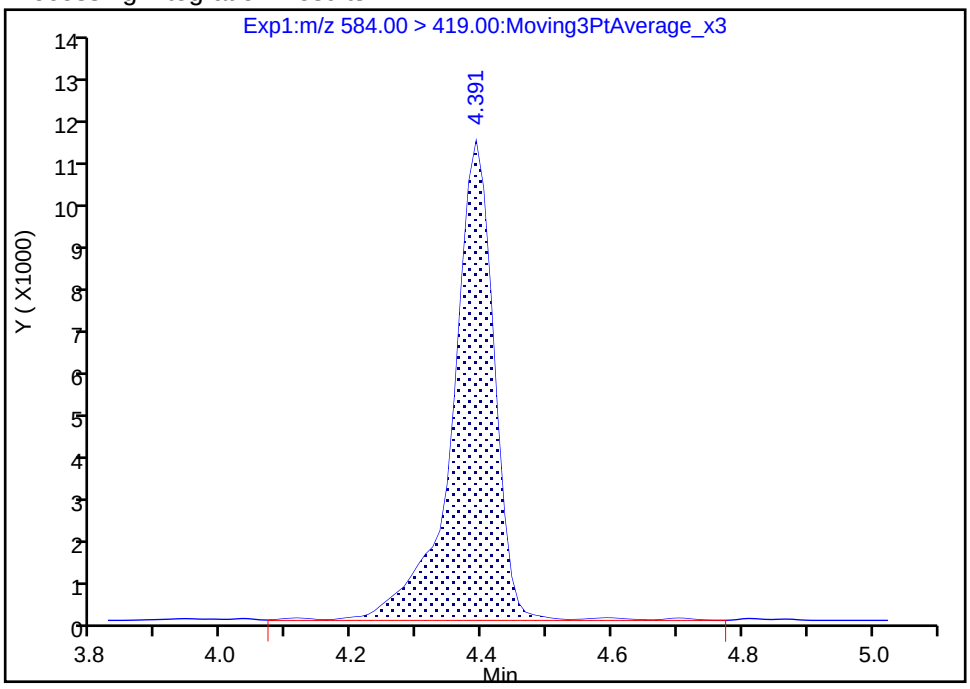
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A13.d				
Injection Date:	26-Feb-2021 14:25:50	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-C MSD				
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

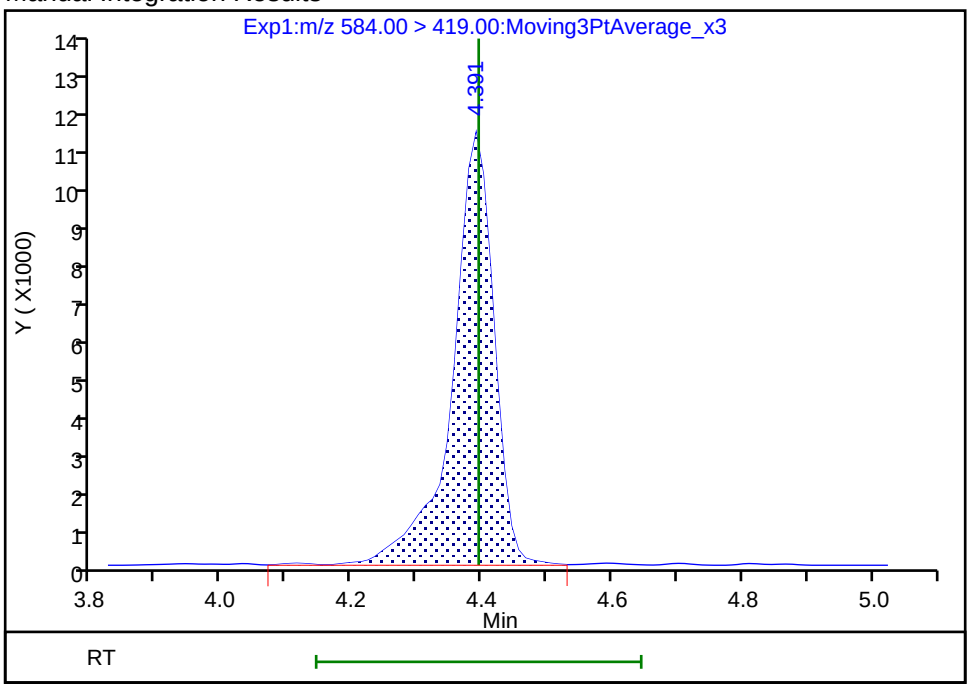
Processing Integration Results

RT: 4.39
Area: 50452
Amount: 1.117328
Amount Units: ng/ml



Manual Integration Results

RT: 4.39
Area: 50086
Amount: 1.109223
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:09:47

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

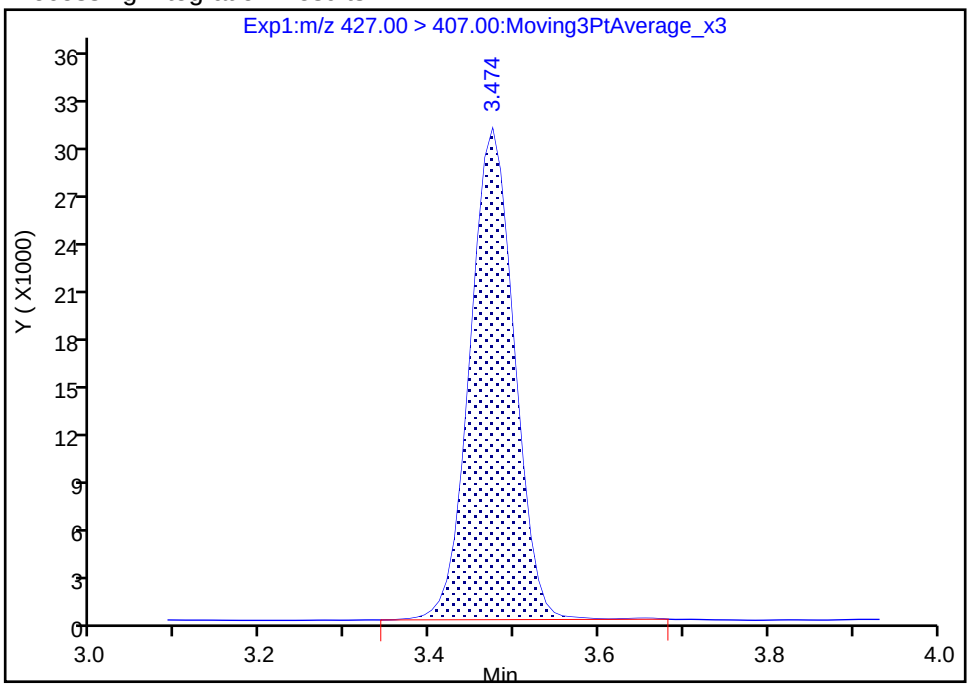
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A13.d				
Injection Date:	26-Feb-2021 14:25:50	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-C MSD				
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

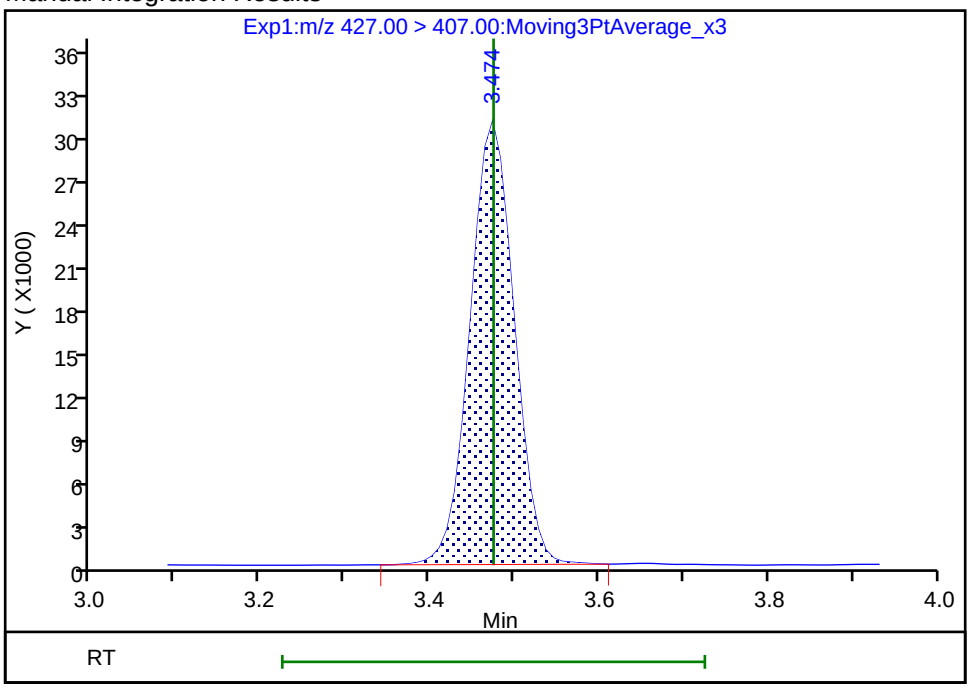
Processing Integration Results

RT: 3.47
Area: 111391
Amount: 0.838915
Amount Units: ng/ml



Manual Integration Results

RT: 3.47
Area: 111138
Amount: 0.837010
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:08:59

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

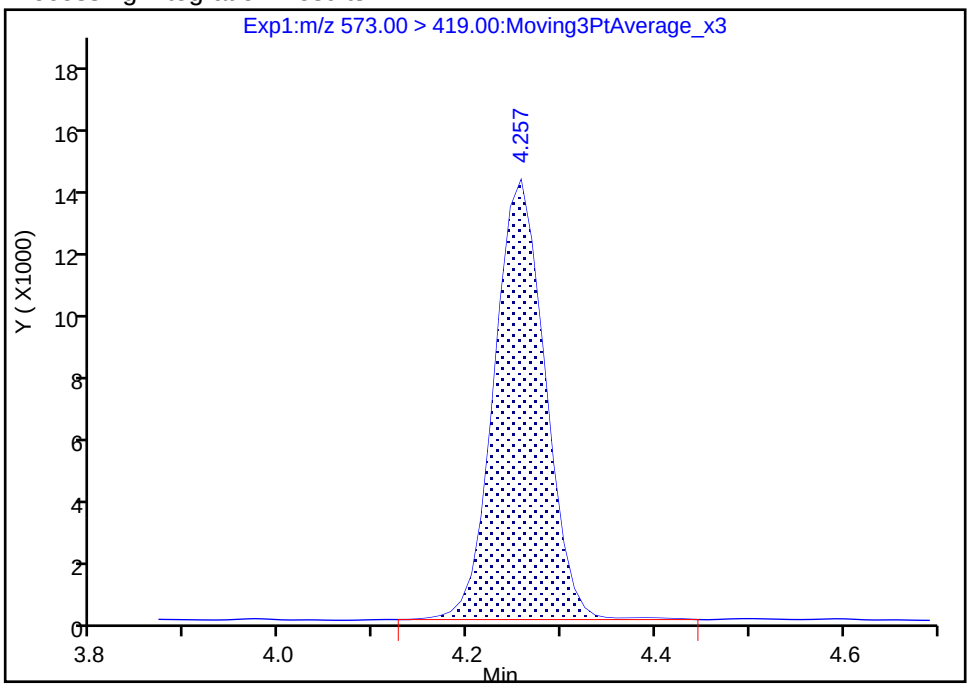
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A13.d				
Injection Date:	26-Feb-2021 14:25:50	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-C MSD				
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

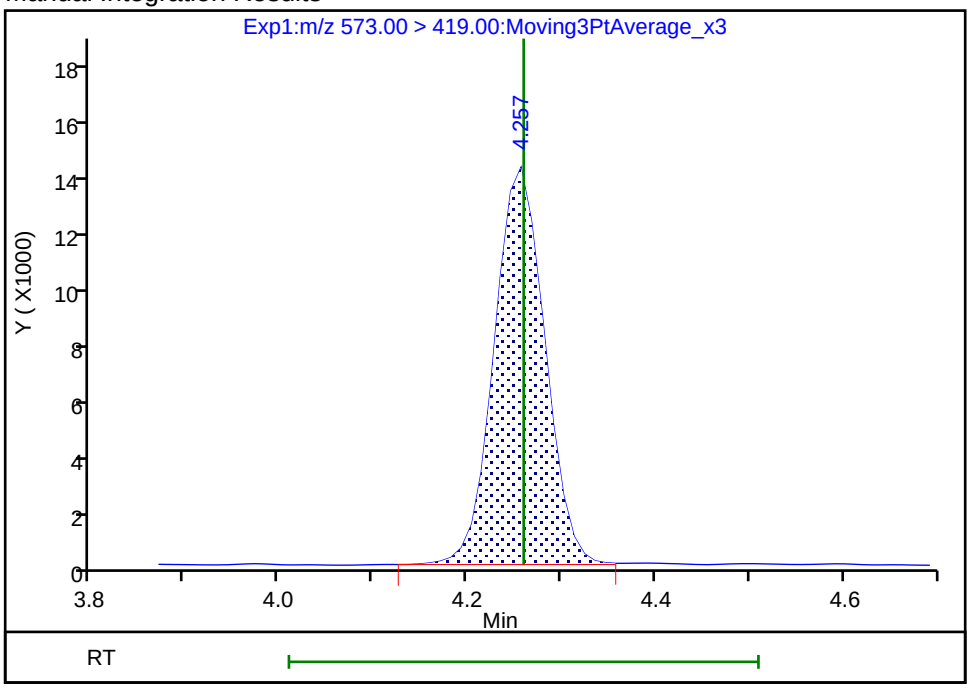
Processing Integration Results

RT: 4.26
Area: 53169
Amount: 0.914480
Amount Units: ng/ml



Manual Integration Results

RT: 4.26
Area: 52983
Amount: 0.911280
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:07:44
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

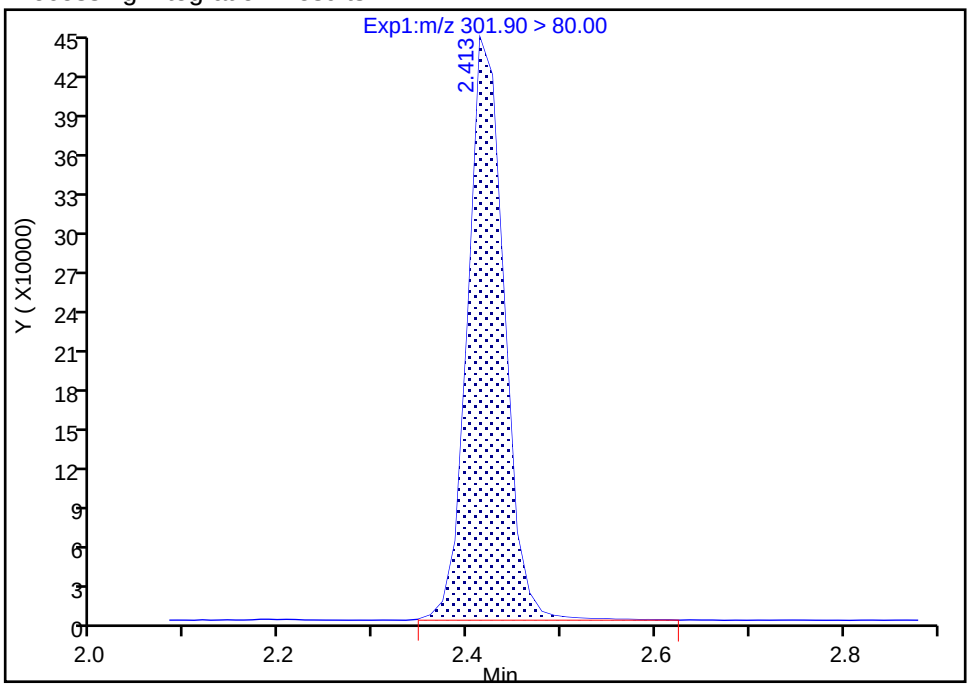
Data File:	\\chromfs\Burlington\ChromData\LC812\20210226-44972.b\PA210226A13.d				
Injection Date:	26-Feb-2021 14:25:50	Instrument ID:	LC812		
Lims ID:	480-181249-A-3-C MSD				
Client ID:	SB-12A (4-6)				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

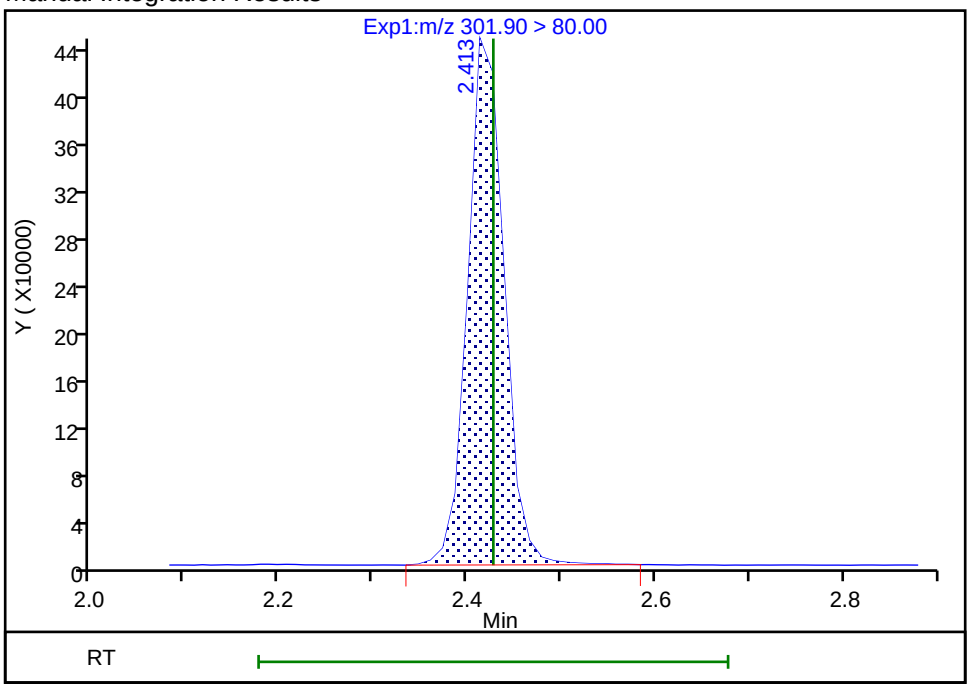
Processing Integration Results

RT: 2.41
Area: 1203889
Amount: 0.981008
Amount Units: ng/ml



Manual Integration Results

RT: 2.41
Area: 1200992
Amount: 0.978647
Amount Units: ng/ml



Reviewer: khanphomeea, 01-Mar-2021 10:07:23

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Instrument ID: LC812 Start Date: 12/22/2020 11:50

Analysis Batch Number: 162365 End Date: 12/22/2020 13:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		12/22/2020 11:50	1		C-18 4.6(mm)
ZZZZZ		12/22/2020 11:58	1		C-18 4.6(mm)
ZZZZZ		12/22/2020 12:06	1		C-18 4.6(mm)
ZZZZZ		12/22/2020 12:15	1		C-18 4.6(mm)
ZZZZZ		12/22/2020 12:23	1		C-18 4.6(mm)
ZZZZZ		12/22/2020 12:31	1		C-18 4.6(mm)
ZZZZZ		12/22/2020 12:39	1		C-18 4.6(mm)
IC 200-162365/8		12/22/2020 12:48	1	PA201222ICAL008.d	C-18 4.6(mm)
IC 200-162365/9		12/22/2020 12:56	1	PA201222ICAL009.d	C-18 4.6(mm)
IC 200-162365/10		12/22/2020 13:04	1	PA201222ICAL010.d	C-18 4.6(mm)
ICIS 200-162365/11		12/22/2020 13:13	1	PA201222ICAL011.d	C-18 4.6(mm)
IC 200-162365/12		12/22/2020 13:21	1	PA201222ICAL012.d	C-18 4.6(mm)
IC 200-162365/13		12/22/2020 13:29	1	PA201222ICAL013.d	C-18 4.6(mm)
ICB 200-162365/14		12/22/2020 13:37	1	PA201222ICAL014.d	C-18 4.6(mm)
ICV 200-162365/15		12/22/2020 13:46	1	PA201222ICAL015.d	C-18 4.6(mm)
ZZZZZ		12/22/2020 13:54	1		C-18 4.6(mm)

537 (modified)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Instrument ID: LC812 Start Date: 02/19/2021 13:19

Analysis Batch Number: 164129 End Date: 02/19/2021 15:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/19/2021 13:19	1		C-18 4.6(mm)
ZZZZZ		02/19/2021 13:28	1		C-18 4.6(mm)
ZZZZZ		02/19/2021 13:36	1		C-18 4.6(mm)
ZZZZZ		02/19/2021 13:44	1		C-18 4.6(mm)
CCVL 200-164129/5		02/19/2021 13:52	1	PA210219A05.d	C-18 4.6(mm)
CCVIS 200-164129/6		02/19/2021 14:01	1	PA210219A06.d	C-18 4.6(mm)
ZZZZZ		02/19/2021 14:09	1		C-18 4.6(mm)
ZZZZZ		02/19/2021 14:17	1		C-18 4.6(mm)
ZZZZZ		02/19/2021 14:25	1		C-18 4.6(mm)
ZZZZZ		02/19/2021 14:34	1		C-18 4.6(mm)
200-57272-A-2-A MDLV		02/19/2021 14:42	1		C-18 4.6(mm)
200-57272-A-3-C MDLV		02/19/2021 14:50	1		C-18 4.6(mm)
200-57272-A-4-C MDLV		02/19/2021 14:59	1		C-18 4.6(mm)
ZZZZZ		02/19/2021 15:07	1		C-18 4.6(mm)
ZZZZZ		02/19/2021 15:15	1		C-18 4.6(mm)
ZZZZZ		02/19/2021 15:23	1		C-18 4.6(mm)
ZZZZZ		02/19/2021 15:32	1		C-18 4.6(mm)
CCV 200-164129/18		02/19/2021 15:40	1		C-18 4.6(mm)

537 (modified)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Instrument ID: LC812 Start Date: 02/19/2021 15:48

Analysis Batch Number: 164133 End Date: 02/19/2021 18:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 200-164133/1		02/19/2021 15:48	1	PA210219B01.d	C-18 4.6(mm)
MB 200-164111/1-A		02/19/2021 15:57	1	PA210219B02.d	C-18 4.6(mm)
LCS 200-164111/2-A		02/19/2021 16:05	1	PA210219B03.d	C-18 4.6(mm)
ZZZZZ		02/19/2021 16:13	1		C-18 4.6(mm)
ZZZZZ		02/19/2021 16:21	1		C-18 4.6(mm)
ZZZZZ		02/19/2021 16:30	1		C-18 4.6(mm)
ZZZZZ		02/19/2021 16:38	1		C-18 4.6(mm)
ZZZZZ		02/19/2021 16:46	1		C-18 4.6(mm)
480-181249-5	EB-20210210	02/19/2021 16:55	1	PA210219B09.d	C-18 4.6(mm)
ZZZZZ		02/19/2021 17:03	1		C-18 4.6(mm)
ZZZZZ		02/19/2021 17:11	1		C-18 4.6(mm)
ZZZZZ		02/19/2021 17:19	1		C-18 4.6(mm)
ZZZZZ		02/19/2021 17:28	1		C-18 4.6(mm)
CCV 200-164133/14		02/19/2021 17:36	1	PA210219B14.d	C-18 4.6(mm)
ZZZZZ		02/19/2021 17:44	1		C-18 4.6(mm)
ZZZZZ		02/19/2021 17:52	1		C-18 4.6(mm)
ZZZZZ		02/19/2021 18:01	1		C-18 4.6(mm)
ZZZZZ		02/19/2021 18:09	1		C-18 4.6(mm)
ZZZZZ		02/19/2021 18:17	1		C-18 4.6(mm)
ZZZZZ		02/19/2021 18:26	1		C-18 4.6(mm)
ZZZZZ		02/19/2021 18:34	1		C-18 4.6(mm)
ZZZZZ		02/19/2021 18:42	1		C-18 4.6(mm)
CCV 200-164133/23		02/19/2021 18:50	1		C-18 4.6(mm)

537 (modified)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-181249-1

SDG No.:

Instrument ID: LC812 Start Date: 02/26/2021 12:46

Analysis Batch Number: 164334 End Date: 02/26/2021 14:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/26/2021 12:46	1		C-18 4.6(mm)
CCVL 200-164334/2		02/26/2021 12:54	1	PA210226A02.d	C-18 4.6(mm)
CCVIS 200-164334/3		02/26/2021 13:02	1	PA210226A03.d	C-18 4.6(mm)
MB 200-164298/1-A		02/26/2021 13:11	1	PA210226A04.d	C-18 4.6(mm)
LCS 200-164298/2-A		02/26/2021 13:19	1	PA210226A05.d	C-18 4.6(mm)
ZZZZZ		02/26/2021 13:27	1		C-18 4.6(mm)
ZZZZZ		02/26/2021 13:36	1		C-18 4.6(mm)
ZZZZZ		02/26/2021 13:44	1		C-18 4.6(mm)
480-181249-1	SB-12C (32-33)	02/26/2021 13:52	1	PA210226A09.d	C-18 4.6(mm)
480-181249-2	SB-12C (55-56)	02/26/2021 14:00	1	PA210226A10.d	C-18 4.6(mm)
480-181249-3	SB-12A (4-6)	02/26/2021 14:09	1	PA210226A11.d	C-18 4.6(mm)
480-181249-3 MS	SB-12A (4-6) MS	02/26/2021 14:17	1	PA210226A12.d	C-18 4.6(mm)
480-181249-3 MSD	SB-12A (4-6) MSD	02/26/2021 14:25	1	PA210226A13.d	C-18 4.6(mm)
480-181249-4	SB-12A (13-15)	02/26/2021 14:34	1	PA210226A14.d	C-18 4.6(mm)
480-181249-6	DUP-SB (13-15)	02/26/2021 14:42	1	PA210226A15.d	C-18 4.6(mm)
CCV 200-164334/16		02/26/2021 14:50	1	PA210226A16.d	C-18 4.6(mm)

537 (modified)

LCMS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Burlingt Job No.: 480-181249-1

SDG No.:

Batch Number: 164111 Batch Start Date: 02/18/21 15:01 Batch Analyst: Wisniewski, Kurtis F

Batch Method: 3535 Batch End Date: 02/18/21 18:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	LCMPFCIDA21 00028	LCPFC32MTXStk 00030
MB 200-164111/1		3535, 537 (modified)		250 g	0 g	250 mL	10 mL	100 uL	
LCS 200-164111/2		3535, 537 (modified)		250 g	0 g	250 mL	10 mL	100 uL	25 uL
480-181249-G-5	EB-20210210	3535, 537 (modified)	T	313.14 g	27.12 g	286 mL	10 mL	100 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFAS21 IS Stk 00031					
MB 200-164111/1		3535, 537 (modified)		100 uL					
LCS 200-164111/2		3535, 537 (modified)		100 uL					
480-181249-G-5	EB-20210210	3535, 537 (modified)	T	100 uL					

Batch Notes	
Balance ID	M02926
Manifold ID	IDA 3 & 4
Pipette/Syringe/Dispenser ID	QH77727
Rinse Solvent Lot	1443689
Rinse Solvent Name	Hexane
Solvent Lot #	1466814
Solvent Name	Methanol (0.3% NH4OH)
SPE Cartridge Lot ID	006030211A
SPE Cartridge Type	Oasis WAX 500 mg
Analyst ID - Spike Analyst	EK
Analyst ID - Spike Witness Analyst	KFW

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Burlingt Job No.: 480-181249-1

SDG No.:

Batch Number: 164298 Batch Start Date: 02/25/21 15:08 Batch Analyst: Dean, Nathan

Batch Method: SHAKE Batch End Date: 02/26/21 12:26

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	LCMPFCIDA21 00028	LCPFC32MTXStk 00031	PFAS21 IS Stk 00031	AnalysisComment
MB 200-164298/1		SHAKE, 537 (modified)		5.00 g	10 mL	100 uL		100 uL	
LCS 200-164298/2		SHAKE, 537 (modified)		5.00 g	10 mL	100 uL	25 uL	100 uL	
480-181249-A-1	SB-12C (32-33)	SHAKE, 537 (modified)	T	5.07 g	10 mL	100 uL		100 uL	
480-181249-A-2	SB-12C (55-56)	SHAKE, 537 (modified)	T	5.26 g	10 mL	100 uL		100 uL	Clay-like; very sticky
480-181249-A-3	SB-12A (4-6)	SHAKE, 537 (modified)	T	5.28 g	10 mL	100 uL		100 uL	High moisture
480-181249-A-3 MS	SB-12A (4-6)	SHAKE, 537 (modified)	T	5.18 g	10 mL	100 uL	25 uL	100 uL	High moisture
480-181249-A-3 MSD	SB-12A (4-6)	SHAKE, 537 (modified)	T	5.20 g	10 mL	100 uL	25 uL	100 uL	High moisture
480-181249-A-4	SB-12A (13-15)	SHAKE, 537 (modified)	T	5.09 g	10 mL	100 uL		100 uL	
480-181249-A-6	DUP-SB (13-15)	SHAKE, 537 (modified)	T	5.32 g	10 mL	100 uL		100 uL	High moisture

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Burlingt Job No.: 480-181249-1

SDG No.:

Batch Number: 164298 Batch Start Date: 02/25/21 15:08 Batch Analyst: Dean, Nathan

Batch Method: SHAKE Batch End Date: 02/26/21 12:26

Batch Notes	
Acetic Acid ID	1331026
Analyst ID - Aliquot Step	NDD
Balance ID	M02926
Analyst ID - Final Volume Step	NDD
Hexane ID	1443689
Internal Standard ID#	1465145
Manifold ID	IDA 1, IDA 2
Methanol ID	25181
Methanolic Potassium Hydroxide ID	1465935
Millipore Water Dispense Date	02/26/2021
Sodium Hydroxide ID	1465266
Ammonium Hydroxide/MeOH ID	1466814
pH Indicator ID	20D5091
Pipette/Syringe/Dispenser ID	QH77727
Analyst ID - Reagent Drop Witness	NDD
Analyst ID - IS Reagent Drop	NDD
Analyst ID - IS Reagent Drop Witness	KFW
Blank Sand Lot #	1469183
SPE Cartridge Lot ID	C03699
SPE Cartridge Type	Phenomenex Strata PFAS (WAX/GCB), 500 mg/ 50mg/ 6mL

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS

COVER PAGE
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-181249-1

SDG No.:

Project: Fort Edward Landfill #558001

Client Sample ID	Lab Sample ID
SB-12C (32-33)	480-181249-1
SB-12C (55-56)	480-181249-2
SB-12A (4-6)	480-181249-3
SB-12A (13-15)	480-181249-4
EB-20210210	480-181249-5
DUP-SB (13-15)	480-181249-6

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB-12C (32-33) Lab Sample ID: 480-181249-1

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG ID.:

Matrix: Solid Date Sampled: 02/11/2021 11:25

Reporting Basis: DRY Date Received: 02/17/2021 10:30

% Solids: 84.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	3570	12.1	5.3	mg/Kg			1	6010C
7440-36-0	Antimony	18.1	18.1	0.48	mg/Kg	U		1	6010C
7440-38-2	Arsenic	0.80	2.4	0.48	mg/Kg	J		1	6010C
7440-39-3	Barium	13.0	0.60	0.13	mg/Kg			1	6010C
7440-41-7	Beryllium	0.20	0.24	0.034	mg/Kg	J		1	6010C
7440-43-9	Cadmium	0.24	0.24	0.036	mg/Kg	U		1	6010C
7440-70-2	Calcium	2950	60.3	4.0	mg/Kg			1	6010C
7440-47-3	Chromium	4.3	0.60	0.24	mg/Kg			1	6010C
7440-48-4	Cobalt	2.7	0.60	0.060	mg/Kg			1	6010C
7440-50-8	Copper	1.8	1.2	0.25	mg/Kg			1	6010C
7439-89-6	Iron	7020	12.1	4.2	mg/Kg			1	6010C
7439-92-1	Lead	1.1	1.2	0.29	mg/Kg	J		1	6010C
7439-95-4	Magnesium	1230	24.1	1.1	mg/Kg			1	6010C
7439-96-5	Manganese	54.5	0.24	0.039	mg/Kg		B	1	6010C
7440-02-0	Nickel	3.4	6.0	0.28	mg/Kg	J		1	6010C
7440-09-7	Potassium	426	36.2	24.1	mg/Kg			1	6010C
7782-49-2	Selenium	4.8	4.8	0.48	mg/Kg	U		1	6010C
7440-22-4	Silver	0.72	0.72	0.24	mg/Kg	U		1	6010C
7440-23-5	Sodium	294	169	15.7	mg/Kg			1	6010C
7440-28-0	Thallium	7.2	7.2	0.36	mg/Kg	U		1	6010C
7440-62-2	Vanadium	12.6	0.60	0.13	mg/Kg			1	6010C
7440-66-6	Zinc	14.6	2.4	0.77	mg/Kg			1	6010C
7439-97-6	Mercury	0.022	0.022	0.0091	mg/Kg	U		1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB-12C (55-56)
Lab Sample ID: 480-181249-2
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-181249-1
SDG ID.:
Matrix: Solid
Date Sampled: 02/11/2021 15:10
Reporting Basis: DRY
Date Received: 02/17/2021 10:30
% Solids: 62.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	27800	16.2	7.1	mg/Kg			1	6010C
7440-36-0	Antimony	24.3	24.3	0.65	mg/Kg	U		1	6010C
7440-38-2	Arsenic	5.4	3.2	0.65	mg/Kg			1	6010C
7440-39-3	Barium	222	0.81	0.18	mg/Kg			1	6010C
7440-41-7	Beryllium	1.2	0.32	0.045	mg/Kg			1	6010C
7440-43-9	Cadmium	0.19	0.32	0.049	mg/Kg	J		1	6010C
7440-70-2	Calcium	47900	80.9	5.3	mg/Kg			1	6010C
7440-47-3	Chromium	41.9	0.81	0.32	mg/Kg			1	6010C
7440-48-4	Cobalt	18.6	0.81	0.081	mg/Kg			1	6010C
7440-50-8	Copper	29.1	1.6	0.34	mg/Kg			1	6010C
7439-89-6	Iron	32900	16.2	5.7	mg/Kg			1	6010C
7439-92-1	Lead	15.8	1.6	0.39	mg/Kg			1	6010C
7439-95-4	Magnesium	14400	32.4	1.5	mg/Kg			1	6010C
7439-96-5	Manganese	702	0.32	0.052	mg/Kg		B	1	6010C
7440-02-0	Nickel	48.3	8.1	0.37	mg/Kg			1	6010C
7440-09-7	Potassium	7030	48.5	32.4	mg/Kg			1	6010C
7782-49-2	Selenium	6.5	6.5	0.65	mg/Kg	U		1	6010C
7440-22-4	Silver	0.97	0.97	0.32	mg/Kg	U		1	6010C
7440-23-5	Sodium	916	226	21.0	mg/Kg			1	6010C
7440-28-0	Thallium	9.7	9.7	0.49	mg/Kg	U		1	6010C
7440-62-2	Vanadium	48.7	0.81	0.18	mg/Kg			1	6010C
7440-66-6	Zinc	77.0	3.2	1.0	mg/Kg			1	6010C
7439-97-6	Mercury	0.046	0.046	0.019	mg/Kg	U		1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB-12A (4-6)
Lab Sample ID: 480-181249-3
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-181249-1
SDG ID.:
Matrix: Solid
Date Sampled: 02/12/2021 13:45
Reporting Basis: DRY
Date Received: 02/17/2021 10:30
% Solids: 80.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	4110	12.9	5.7	mg/Kg			1	6010C
7440-36-0	Antimony	19.3	19.3	0.51	mg/Kg	U		1	6010C
7440-38-2	Arsenic	1.1	2.6	0.51	mg/Kg	J		1	6010C
7440-39-3	Barium	19.1	0.64	0.14	mg/Kg			1	6010C
7440-41-7	Beryllium	0.21	0.26	0.036	mg/Kg	J		1	6010C
7440-43-9	Cadmium	0.26	0.26	0.039	mg/Kg	U		1	6010C
7440-70-2	Calcium	3000	64.3	4.2	mg/Kg			1	6010C
7440-47-3	Chromium	4.6	0.64	0.26	mg/Kg			1	6010C
7440-48-4	Cobalt	2.2	0.64	0.064	mg/Kg			1	6010C
7440-50-8	Copper	1.3	1.3	0.27	mg/Kg			1	6010C
7439-89-6	Iron	6000	12.9	4.5	mg/Kg			1	6010C
7439-92-1	Lead	1.5	1.3	0.31	mg/Kg			1	6010C
7439-95-4	Magnesium	1230	25.7	1.2	mg/Kg			1	6010C
7439-96-5	Manganese	60.1	0.26	0.041	mg/Kg		B	1	6010C
7440-02-0	Nickel	3.4	6.4	0.30	mg/Kg	J		1	6010C
7440-09-7	Potassium	408	38.6	25.7	mg/Kg			1	6010C
7782-49-2	Selenium	5.1	5.1	0.51	mg/Kg	U		1	6010C
7440-22-4	Silver	0.77	0.77	0.26	mg/Kg	U		1	6010C
7440-23-5	Sodium	249	180	16.7	mg/Kg			1	6010C
7440-28-0	Thallium	7.7	7.7	0.39	mg/Kg	U		1	6010C
7440-62-2	Vanadium	11.1	0.64	0.14	mg/Kg			1	6010C
7440-66-6	Zinc	14.5	2.6	0.82	mg/Kg			1	6010C
7439-97-6	Mercury	0.023	0.023	0.0094	mg/Kg	U		1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SB-12A (13-15)
Lab Sample ID: 480-181249-4
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-181249-1
SDG ID.:
Matrix: Solid
Date Sampled: 02/12/2021 14:16
Reporting Basis: DRY
Date Received: 02/17/2021 10:30
% Solids: 82.6

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	8340	11.6	5.1	mg/Kg			1	6010C
7440-36-0	Antimony	17.3	17.3	0.46	mg/Kg	U		1	6010C
7440-38-2	Arsenic	1.2	2.3	0.46	mg/Kg	J		1	6010C
7440-39-3	Barium	50.8	0.58	0.13	mg/Kg			1	6010C
7440-41-7	Beryllium	0.43	0.23	0.032	mg/Kg			1	6010C
7440-43-9	Cadmium	0.23	0.23	0.035	mg/Kg	U		1	6010C
7440-70-2	Calcium	2860	57.8	3.8	mg/Kg			1	6010C
7440-47-3	Chromium	11.1	0.58	0.23	mg/Kg			1	6010C
7440-48-4	Cobalt	4.8	0.58	0.058	mg/Kg			1	6010C
7440-50-8	Copper	6.0	1.2	0.24	mg/Kg			1	6010C
7439-89-6	Iron	12000	11.6	4.0	mg/Kg			1	6010C
7439-92-1	Lead	3.1	1.2	0.28	mg/Kg			1	6010C
7439-95-4	Magnesium	2610	23.1	1.1	mg/Kg			1	6010C
7439-96-5	Manganese	87.3	0.23	0.037	mg/Kg		B	1	6010C
7440-02-0	Nickel	9.9	5.8	0.27	mg/Kg			1	6010C
7440-09-7	Potassium	1550	34.7	23.1	mg/Kg			1	6010C
7782-49-2	Selenium	4.6	4.6	0.46	mg/Kg	U		1	6010C
7440-22-4	Silver	0.69	0.69	0.23	mg/Kg	U		1	6010C
7440-23-5	Sodium	337	162	15.0	mg/Kg			1	6010C
7440-28-0	Thallium	6.9	6.9	0.35	mg/Kg	U		1	6010C
7440-62-2	Vanadium	22.0	0.58	0.13	mg/Kg			1	6010C
7440-66-6	Zinc	26.4	2.3	0.74	mg/Kg			1	6010C
7439-97-6	Mercury	0.016	0.016	0.0065	mg/Kg	U		1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: EB-20210210 Lab Sample ID: 480-181249-5

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG ID.:

Matrix: Water Date Sampled: 02/10/2021 11:00

Reporting Basis: WET Date Received: 02/17/2021 10:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	200	200	60.0	ug/L	U		1	6010C
7440-36-0	Antimony	20.0	20.0	6.8	ug/L	U		1	6010C
7440-38-2	Arsenic	15.0	15.0	5.6	ug/L	U		1	6010C
7440-39-3	Barium	2.0	2.0	0.70	ug/L	U		1	6010C
7440-41-7	Beryllium	2.0	2.0	0.30	ug/L	U		1	6010C
7440-43-9	Cadmium	2.0	2.0	0.50	ug/L	U		1	6010C
7440-70-2	Calcium	500	500	100	ug/L	U		1	6010C
7440-47-3	Chromium	4.0	4.0	1.0	ug/L	U		1	6010C
7440-48-4	Cobalt	4.0	4.0	0.63	ug/L	U		1	6010C
7440-50-8	Copper	10.0	10.0	1.6	ug/L	U		1	6010C
7439-89-6	Iron	50.0	50.0	19.3	ug/L	U		1	6010C
7439-92-1	Lead	10.0	10.0	3.0	ug/L	U		1	6010C
7439-95-4	Magnesium	200	200	43.4	ug/L	U		1	6010C
7439-96-5	Manganese	3.0	3.0	0.40	ug/L	U		1	6010C
7440-02-0	Nickel	10.0	10.0	1.3	ug/L	U		1	6010C
7440-09-7	Potassium	500	500	100	ug/L	U		1	6010C
7782-49-2	Selenium	25.0	25.0	8.7	ug/L	U		1	6010C
7440-22-4	Silver	6.0	6.0	1.7	ug/L	U		1	6010C
7440-23-5	Sodium	1000	1000	324	ug/L	U		1	6010C
7440-28-0	Thallium	20.0	20.0	10.2	ug/L	U		1	6010C
7440-62-2	Vanadium	5.0	5.0	1.5	ug/L	U		1	6010C
7440-66-6	Zinc	10.0	10.0	1.5	ug/L	U		1	6010C
7439-97-6	Mercury	0.20	0.20	0.12	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DUP-SB (13-15) Lab Sample ID: 480-181249-6

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG ID.:

Matrix: Solid Date Sampled: 02/12/2021 14:16

Reporting Basis: DRY Date Received: 02/17/2021 10:30

% Solids: 80.6

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	4290	12.4	5.5	mg/Kg			1	6010C
7440-36-0	Antimony	18.6	18.6	0.50	mg/Kg	U		1	6010C
7440-38-2	Arsenic	0.96	2.5	0.50	mg/Kg	J		1	6010C
7440-39-3	Barium	20.1	0.62	0.14	mg/Kg			1	6010C
7440-41-7	Beryllium	0.24	0.25	0.035	mg/Kg	J		1	6010C
7440-43-9	Cadmium	0.25	0.25	0.037	mg/Kg	U		1	6010C
7440-70-2	Calcium	2630	62.1	4.1	mg/Kg			1	6010C
7440-47-3	Chromium	5.0	0.62	0.25	mg/Kg			1	6010C
7440-48-4	Cobalt	2.7	0.62	0.062	mg/Kg			1	6010C
7440-50-8	Copper	2.5	1.2	0.26	mg/Kg			1	6010C
7439-89-6	Iron	7350	12.4	4.4	mg/Kg			1	6010C
7439-92-1	Lead	1.1	1.2	0.30	mg/Kg	J		1	6010C
7439-95-4	Magnesium	1580	24.9	1.2	mg/Kg			1	6010C
7439-96-5	Manganese	51.0	0.25	0.040	mg/Kg		B	1	6010C
7440-02-0	Nickel	4.0	6.2	0.29	mg/Kg	J		1	6010C
7440-09-7	Potassium	585	37.3	24.9	mg/Kg			1	6010C
7782-49-2	Selenium	5.0	5.0	0.50	mg/Kg	U		1	6010C
7440-22-4	Silver	0.75	0.75	0.25	mg/Kg	U		1	6010C
7440-23-5	Sodium	289	174	16.2	mg/Kg			1	6010C
7440-28-0	Thallium	7.5	7.5	0.37	mg/Kg	U		1	6010C
7440-62-2	Vanadium	14.7	0.62	0.14	mg/Kg			1	6010C
7440-66-6	Zinc	18.8	2.5	0.80	mg/Kg			1	6010C
7439-97-6	Mercury	0.023	0.023	0.0095	mg/Kg	U		1	7471B

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

ICV Source: MEI_MSS_ICV_00063 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00147

Analyte	ICV 480-570189/5 02/19/2021 13:22				CCV 480-570189/15 02/19/2021 14:00				CCV 480-570189/27 02/19/2021 15:05			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	37.33		37.5	100	50.99		50.0	102	50.83		50.0	102
Antimony	0.747		0.750	100	1.02		1.00	102	1.03		1.00	103
Arsenic	0.743		0.750	99	1.02		1.00	102	1.03		1.00	103
Barium	0.741		0.750	99	1.02		1.00	102	1.02		1.00	102
Beryllium	0.751		0.750	100	1.03		1.00	103	1.03		1.00	103
Cadmium	0.744		0.750	99	1.04		1.00	104	1.04		1.00	104
Calcium	37.47		37.5	100	51.52		50.0	103	51.60		50.0	103
Chromium	0.751		0.750	100	1.02		1.00	102	1.02		1.00	102
Cobalt	0.735		0.750	98	1.03		1.00	103	1.03		1.00	103
Copper	0.728		0.750	97	1.03		1.00	103	1.03		1.00	103
Iron	37.61		37.5	100	50.95		50.0	102	50.35		50.0	101
Lead	0.742		0.750	99	1.03		1.00	103	1.03		1.00	103
Magnesium	36.73		37.5	98	50.96		50.0	102	51.01		50.0	102
Manganese	0.762		0.750	102	1.01		1.00	101	1.00		1.00	100
Nickel	0.734		0.750	98	1.03		1.00	103	1.03		1.00	103
Potassium	36.86		37.5	98	50.71		50.0	101	50.78		50.0	102
Selenium	0.752		0.750	100	1.03		1.00	103	1.04		1.00	104
Silver	0.745		0.750	99	1.00		1.00	100	0.997		1.00	100
Sodium	37.26		37.5	99	50.44		50.0	101	50.24		50.0	100
Thallium	0.746		0.750	99	1.04		1.00	104	1.04		1.00	104
Vanadium	0.747		0.750	100	1.03		1.00	103	1.03		1.00	103
Zinc	0.719		0.750	96	1.03		1.00	103	1.02		1.00	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

ICV Source: MEI_MSS_ICV_00063 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00147

Analyte	CCV 480-570189/34 02/19/2021 15:50											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	49.49		50.0	99								
Antimony	1.01		1.00	101								
Arsenic	1.01		1.00	101								
Barium	1.01		1.00	101								
Beryllium	1.02		1.00	102								
Cadmium	1.03		1.00	103								
Calcium	50.59		50.0	101								
Chromium	0.999		1.00	100								
Cobalt	1.02		1.00	102								
Copper	1.02		1.00	102								
Iron	49.12		50.0	98								
Lead	1.02		1.00	102								
Magnesium	50.31		50.0	101								
Manganese	0.986		1.00	99								
Nickel	1.01		1.00	101								
Potassium	50.12		50.0	100								
Selenium	1.02		1.00	102								
Silver	0.988		1.00	99								
Sodium	49.09		50.0	98								
Thallium	1.03		1.00	103								
Vanadium	1.01		1.00	101								
Zinc	1.02		1.00	102								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

ICV Source: MEI_MSS_ICV_00063 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00147

Analyte	ICV 480-570190/5 02/19/2021 13:22				CCV 480-570190/17 02/19/2021 15:05				CCV 480-570190/25 02/19/2021 15:50			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	37.33		37.5	100	50.83		50.0	102	49.49		50.0	99
Antimony	0.747		0.750	100	1.03		1.00	103	1.01		1.00	101
Arsenic	0.743		0.750	99	1.03		1.00	103	1.01		1.00	101
Barium	0.741		0.750	99	1.02		1.00	102	1.01		1.00	101
Beryllium	0.751		0.750	100	1.03		1.00	103	1.02		1.00	102
Cadmium	0.744		0.750	99	1.04		1.00	104	1.03		1.00	103
Calcium	37.47		37.5	100	51.60		50.0	103	50.59		50.0	101
Chromium	0.751		0.750	100	1.02		1.00	102	0.999		1.00	100
Cobalt	0.735		0.750	98	1.03		1.00	103	1.02		1.00	102
Copper	0.728		0.750	97	1.03		1.00	103	1.02		1.00	102
Iron	37.61		37.5	100	50.35		50.0	101	49.12		50.0	98
Lead	0.742		0.750	99	1.03		1.00	103	1.02		1.00	102
Magnesium	36.73		37.5	98	51.01		50.0	102	50.31		50.0	101
Manganese	0.762		0.750	102	1.00		1.00	100	0.986		1.00	99
Nickel	0.734		0.750	98	1.03		1.00	103	1.01		1.00	101
Potassium	36.86		37.5	98	50.78		50.0	102	50.12		50.0	100
Selenium	0.752		0.750	100	1.04		1.00	104	1.02		1.00	102
Silver	0.745		0.750	99	0.997		1.00	100	0.988		1.00	99
Sodium	37.26		37.5	99	50.24		50.0	100	49.09		50.0	98
Thallium	0.746		0.750	99	1.04		1.00	104	1.03		1.00	103
Vanadium	0.747		0.750	100	1.03		1.00	103	1.01		1.00	101
Zinc	0.719		0.750	96	1.02		1.00	102	1.02		1.00	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

ICV Source: MEI_MSS_ICV_00063 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00147

Analyte	CCV 480-570190/37 02/19/2021 16:35											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	50.59		50.0	101								
Antimony	1.01		1.00	101								
Arsenic	1.02		1.00	102								
Barium	1.01		1.00	101								
Beryllium	1.03		1.00	103								
Cadmium	1.03		1.00	103								
Calcium	51.56		50.0	103								
Chromium	1.01		1.00	101								
Cobalt	1.02		1.00	102								
Copper	1.02		1.00	102								
Iron	50.05		50.0	100								
Lead	1.03		1.00	103								
Magnesium	51.28		50.0	103								
Manganese	0.999		1.00	100								
Nickel	1.02		1.00	102								
Potassium	50.75		50.0	101								
Selenium	1.03		1.00	103								
Silver	0.989		1.00	99								
Sodium	49.91		50.0	100								
Thallium	1.04		1.00	104								
Vanadium	1.02		1.00	102								
Zinc	1.03		1.00	103								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

ICV Source: MEI_10_CCVL_00360 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00360

Analyte	ICVL 480-570189/7 02/19/2021 13:29				CCVL 480-570189/17 02/19/2021 14:27				CCVL 480-570189/29 02/19/2021 15:12			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.164	J	0.200	82	0.176	J	0.200	88	0.166	J	0.200	83
Antimony	0.0184	J	0.0200	92	0.0201		0.0200	100	0.0192	J	0.0200	96
Arsenic	0.0165		0.0150	110	0.0134	J	0.0150	89	0.0152		0.0150	101
Barium	0.00199	J	0.00200	100	0.00190	J	0.00200	95	0.00189	J	0.00200	95
Beryllium	0.00198	J	0.00200	99	0.00185	J	0.00200	93	0.00189	J	0.00200	95
Cadmium	0.00185	J	0.00200	93	0.00183	J	0.00200	92	0.00187	J	0.00200	94
Calcium	0.504		0.500	101	0.491	J	0.500	98	0.496	J	0.500	99
Chromium	0.00410		0.00400	103	0.00382	J	0.00400	96	0.00390	J	0.00400	98
Cobalt	0.00367	J	0.00400	92	0.00369	J	0.00400	92	0.00342	J	0.00400	86
Copper	0.00948	J	0.0100	95	0.00919	J	0.0100	92	0.00880	J	0.0100	88
Iron	0.0453	J	0.0500	91	0.0454	J	0.0500	91	0.0420	J	0.0500	84
Lead	0.00977	J	0.0100	98	0.00917	J	0.0100	92	0.00844	J	0.0100	84
Magnesium	0.203		0.200	101	0.198	J	0.200	99	0.196	J	0.200	98
Manganese	0.00293	J	0.00300	98	0.00286	J	0.00300	95	0.00276	J	0.00300	92
Nickel	0.00951	J	0.0100	95	0.00926	J	0.0100	93	0.00943	J	0.0100	94
Potassium	0.428	J	0.500	86	0.395	J	0.500	79	0.407	J	0.500	81
Selenium	0.0237	J	0.0250	95	0.0237	J	0.0250	95	0.0221	J	0.0250	89
Silver	0.00585	J	0.00600	98	0.00574	J	0.00600	96	0.00597	J	0.00600	100
Sodium	0.924	J	1.01	92	0.880	J	1.01	87	0.859	J	1.01	85
Thallium	0.0195	J	0.0200	97	0.0196	J	0.0200	98	0.0190	J	0.0200	95
Vanadium	0.00443	J	0.00500	89	0.00439	J	0.00500	88	0.00447	J	0.00500	89
Zinc	0.00942	J	0.0100	94	0.00955	J	0.0100	96	0.00935	J	0.0100	94

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

ICV Source: MEI_10_CCVL_00360 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00360

Analyte	CCVL 480-570189/36 02/19/2021 15:57											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.184	J	0.200	92								
Antimony	0.0187	J	0.0200	93								
Arsenic	0.0153		0.0150	102								
Barium	0.00190	J	0.00200	95								
Beryllium	0.00190	J	0.00200	95								
Cadmium	0.00190	J	0.00200	95								
Calcium	0.496	J	0.500	99								
Chromium	0.00403		0.00400	101								
Cobalt	0.00358	J	0.00400	90								
Copper	0.00899	J	0.0100	90								
Iron	0.0432	J	0.0500	86								
Lead	0.00947	J	0.0100	95								
Magnesium	0.196	J	0.200	98								
Manganese	0.00273	J	0.00300	91								
Nickel	0.00923	J	0.0100	92								
Potassium	0.406	J	0.500	81								
Selenium	0.0231	J	0.0250	92								
Silver	0.00553	J	0.00600	92								
Sodium	0.862	J	1.01	86								
Thallium	0.0194	J	0.0200	97								
Vanadium	0.00468	J	0.00500	94								
Zinc	0.00908	J	0.0100	91								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

ICV Source: MEI_10_CCVL_00360 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00360

Analyte	ICVL 480-570190/7 02/19/2021 13:29				CCVL 480-570190/19 02/19/2021 15:12				CCVL 480-570190/27 02/19/2021 15:57			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.164	J	0.200	82	0.166	J	0.200	83	0.184	J	0.200	92
Antimony	0.0184	J	0.0200	92	0.0192	J	0.0200	96	0.0187	J	0.0200	93
Arsenic	0.0165		0.0150	110	0.0152		0.0150	101	0.0153		0.0150	102
Barium	0.00199	J	0.00200	100	0.00189	J	0.00200	95	0.00190	J	0.00200	95
Beryllium	0.00198	J	0.00200	99	0.00189	J	0.00200	95	0.00190	J	0.00200	95
Cadmium	0.00185	J	0.00200	93	0.00187	J	0.00200	94	0.00190	J	0.00200	95
Calcium	0.504		0.500	101	0.496	J	0.500	99	0.496	J	0.500	99
Chromium	0.00410		0.00400	103	0.00390	J	0.00400	98	0.00403		0.00400	101
Cobalt	0.00367	J	0.00400	92	0.00342	J	0.00400	86	0.00358	J	0.00400	90
Copper	0.00948	J	0.0100	95	0.00880	J	0.0100	88	0.00899	J	0.0100	90
Iron	0.0453	J	0.0500	91	0.0420	J	0.0500	84	0.0432	J	0.0500	86
Lead	0.00977	J	0.0100	98	0.00844	J	0.0100	84	0.00947	J	0.0100	95
Magnesium	0.203		0.200	101	0.196	J	0.200	98	0.196	J	0.200	98
Manganese	0.00293	J	0.00300	98	0.00276	J	0.00300	92	0.00273	J	0.00300	91
Nickel	0.00951	J	0.0100	95	0.00943	J	0.0100	94	0.00923	J	0.0100	92
Potassium	0.428	J	0.500	86	0.407	J	0.500	81	0.406	J	0.500	81
Selenium	0.0237	J	0.0250	95	0.0221	J	0.0250	89	0.0231	J	0.0250	92
Silver	0.00585	J	0.00600	98	0.00597	J	0.00600	100	0.00553	J	0.00600	92
Sodium	0.924	J	1.01	92	0.859	J	1.01	85	0.862	J	1.01	86
Thallium	0.0195	J	0.0200	97	0.0190	J	0.0200	95	0.0194	J	0.0200	97
Vanadium	0.00443	J	0.00500	89	0.00447	J	0.00500	89	0.00468	J	0.00500	94
Zinc	0.00942	J	0.0100	94	0.00935	J	0.0100	94	0.00908	J	0.0100	91

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

ICV Source: MEI_10_CCVL_00360 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00360

Analyte	CCVL 480-570190/39 02/19/2021 16:42											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.171	J	0.200	86								
Antimony	0.0173	J	0.0200	86								
Arsenic	0.0166		0.0150	110								
Barium	0.00188	J	0.00200	94								
Beryllium	0.00193	J	0.00200	97								
Cadmium	0.00179	J	0.00200	90								
Calcium	0.496	J	0.500	99								
Chromium	0.00411		0.00400	103								
Cobalt	0.00357	J	0.00400	89								
Copper	0.00906	J	0.0100	91								
Iron	0.0384	J	0.0500	77								
Lead	0.00920	J	0.0100	92								
Magnesium	0.196	J	0.200	98								
Manganese	0.00280	J	0.00300	93								
Nickel	0.00937	J	0.0100	94								
Potassium	0.419	J	0.500	84								
Selenium	0.0225	J	0.0250	90								
Silver	0.00610		0.00600	102								
Sodium	0.892	J	1.01	89								
Thallium	0.0184	J	0.0200	92								
Vanadium	0.00451	J	0.00500	90								
Zinc	0.00915	J	0.0100	92								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

ICV Source: MEH_HG1_WKG_02479 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_02479

Analyte	ICV 480-570241/7 02/22/2021 15:58				ICVL 480-570241/9 02/22/2021 16:01				CCV 480-570241/10 02/22/2021 16:02			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00322		0.00300	107	0.000200		0.000200	100	0.00211		0.00200	106

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

ICV Source: MEH_HG1_WKG_02479 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_02479

Analyte	CCV 480-570241/22 02/22/2021 16:18				CCV 480-570241/32 02/22/2021 16:31				CCVL 480-570241/34 02/22/2021 16:33			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00212		0.00200	106	0.00209		0.00200	105	0.000200		0.000200	100

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

ICV Source: MEH_HG1_WKG_02481 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_02481

Analyte	ICV 480-570474/8 02/24/2021 14:37				ICVL 480-570474/10 02/24/2021 14:39				CCV 480-570474/11 02/24/2021 14:41			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00315		0.00300	105	0.000200		0.000200	100	0.00210		0.00200	105

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

ICV Source: MEH_HG1_WKG_02481 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_02481

Analyte	CCV 480-570474/23 02/24/2021 14:56				CCV 480-570474/35 02/24/2021 15:12				CCVL 480-570474/45 02/24/2021 15:25			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00209		0.00200	105	0.00207		0.00200	104	0.000190	J	0.000200	95

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-570189/6 02/19/2021 13:25		CCB 480-570189/16 02/19/2021 14:04		CCB 480-570189/28 02/19/2021 15:08		CCB 480-570189/35 02/19/2021 15:53	
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.20	0.20	U	0.20	U	0.20	U	0.20	U
Antimony	0.020	0.020	U	0.020	U	0.020	U	0.020	U
Arsenic	0.015	0.015	U	0.015	U	0.015	U	0.015	U
Barium	0.0020	0.0020	U	0.0020	U	0.0020	U	0.0020	U
Beryllium	0.0020	0.0020	U	0.0020	U	0.0020	U	0.0020	U
Cadmium	0.0020	0.0020	U	0.0020	U	0.0020	U	0.0020	U
Calcium	0.50	0.50	U	0.50	U	0.50	U	0.50	U
Chromium	0.0040	0.0040	U	0.0040	U	0.0040	U	0.0040	U
Cobalt	0.0040	0.0040	U	0.0040	U	0.0040	U	0.0040	U
Copper	0.010	0.010	U	0.010	U	0.010	U	0.010	U
Iron	0.050	0.050	U	0.050	U	0.050	U	0.050	U
Lead	0.010	0.010	U	0.010	U	0.010	U	0.010	U
Magnesium	0.20	0.20	U	0.20	U	0.20	U	0.20	U
Manganese	0.0030	0.0030	U	0.0030	U	0.0030	U	0.0030	U
Nickel	0.010	0.010	U	0.010	U	0.010	U	0.010	U
Potassium	0.50	0.50	U	0.50	U	0.50	U	0.50	U
Selenium	0.025	0.025	U	0.025	U	0.025	U	0.025	U
Silver	0.0060	0.0060	U	0.0060	U	0.0060	U	0.0060	U
Sodium	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Thallium	0.020	0.020	U	0.020	U	0.020	U	0.020	U
Vanadium	0.0050	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Zinc	0.010	0.010	U	0.010	U	0.010	U	0.010	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-570190/6 02/19/2021 13:25		CCB 480-570190/18 02/19/2021 15:08		CCB 480-570190/26 02/19/2021 15:53		CCB 480-570190/38 02/19/2021 16:38	
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.20	0.20	U	0.20	U	0.20	U	0.20	U
Antimony	0.020	0.020	U	0.020	U	0.020	U	0.020	U
Arsenic	0.015	0.015	U	0.015	U	0.015	U	0.015	U
Barium	0.0020	0.0020	U	0.0020	U	0.0020	U	0.0020	U
Beryllium	0.0020	0.0020	U	0.0020	U	0.0020	U	0.0020	U
Cadmium	0.0020	0.0020	U	0.0020	U	0.0020	U	0.0020	U
Calcium	0.50	0.50	U	0.50	U	0.50	U	0.50	U
Chromium	0.0040	0.0040	U	0.0040	U	0.0040	U	0.0040	U
Cobalt	0.0040	0.0040	U	0.0040	U	0.0040	U	0.0040	U
Copper	0.010	0.010	U	0.010	U	0.010	U	0.010	U
Iron	0.050	0.050	U	0.050	U	0.050	U	0.050	U
Lead	0.010	0.010	U	0.010	U	0.010	U	0.010	U
Magnesium	0.20	0.20	U	0.20	U	0.20	U	0.20	U
Manganese	0.0030	0.0030	U	0.0030	U	0.0030	U	0.0030	U
Nickel	0.010	0.010	U	0.010	U	0.010	U	0.010	U
Potassium	0.50	0.50	U	0.50	U	0.50	U	0.50	U
Selenium	0.025	0.025	U	0.025	U	0.025	U	0.025	U
Silver	0.0060	0.0060	U	0.0060	U	0.0060	U	0.0060	U
Sodium	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Thallium	0.020	0.020	U	0.020	U	0.020	U	0.020	U
Vanadium	0.0050	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Zinc	0.010	0.010	U	0.010	U	0.010	U	0.010	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-570241/8 02/22/2021 15:59		CCB 480-570241/11 02/22/2021 16:03		CCB 480-570241/23 02/22/2021 16:19		CCB 480-570241/33 02/22/2021 16:32	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	0.00020	U	0.00020	U	0.00020	U	0.00020	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-570474/9 02/24/2021 14:38		CCB 480-570474/12 02/24/2021 14:42		CCB 480-570474/24 02/24/2021 14:57		CCB 480-570474/36 02/24/2021 15:13	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	0.00020	U	0.00020	U	0.00020	U	0.00020	U

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 480-570033/1-A

Instrument Code: ICAP1 Batch No.: 570189

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	9.6	U		6010C
7440-36-0	Antimony	14.5	U		6010C
7440-38-2	Arsenic	1.9	U		6010C
7440-39-3	Barium	0.48	U		6010C
7440-41-7	Beryllium	0.19	U		6010C
7440-43-9	Cadmium	0.19	U		6010C
7440-70-2	Calcium	48.2	U		6010C
7440-47-3	Chromium	0.48	U		6010C
7440-48-4	Cobalt	0.48	U		6010C
7440-50-8	Copper	0.96	U		6010C
7439-89-6	Iron	9.6	U		6010C
7439-92-1	Lead	0.96	U		6010C
7439-95-4	Magnesium	19.3	U		6010C
7439-96-5	Manganese	0.0791	J		6010C
7440-02-0	Nickel	4.8	U		6010C
7440-09-7	Potassium	28.9	U		6010C
7782-49-2	Selenium	3.9	U		6010C
7440-22-4	Silver	0.58	U		6010C
7440-23-5	Sodium	135	U		6010C
7440-28-0	Thallium	5.8	U		6010C
7440-62-2	Vanadium	0.48	U		6010C
7440-66-6	Zinc	1.9	U		6010C

3-IN
METHOD BLANK
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 480-570015/1-A

Instrument Code: ICAP1 Batch No.: 570190

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	200	U		6010C
7440-36-0	Antimony	20.0	U		6010C
7440-38-2	Arsenic	15.0	U		6010C
7440-39-3	Barium	2.0	U		6010C
7440-41-7	Beryllium	2.0	U		6010C
7440-43-9	Cadmium	2.0	U		6010C
7440-70-2	Calcium	500	U		6010C
7440-47-3	Chromium	4.0	U		6010C
7440-48-4	Cobalt	4.0	U		6010C
7440-50-8	Copper	10.0	U		6010C
7439-89-6	Iron	50.0	U		6010C
7439-92-1	Lead	10.0	U		6010C
7439-95-4	Magnesium	200	U		6010C
7439-96-5	Manganese	1.34	J		6010C
7440-02-0	Nickel	10.0	U		6010C
7440-09-7	Potassium	500	U		6010C
7782-49-2	Selenium	25.0	U		6010C
7440-22-4	Silver	6.0	U		6010C
7440-23-5	Sodium	1000	U		6010C
7440-28-0	Thallium	20.0	U		6010C
7440-62-2	Vanadium	5.0	U		6010C
7440-66-6	Zinc	10.0	U		6010C

3-IN
METHOD BLANK
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 480-570214/1-A

Instrument Code: LEEMAN5 Batch No.: 570241

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.20	U		7470A

3-IN
METHOD BLANK
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 480-570452/1-A

Instrument Code: LEEMAN5 Batch No.: 570474

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.016	U		7471B

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: ICSA 480-570189/8 Instrument ID: ICAP1

Lab File ID: I1021921A-1.asc ICS Source: MEI_MSS_ICSA_00026

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**500**	**505**	**101**
Antimony		**-0.0008**	
Arsenic		**-0.0073**	
Barium	**0.0120**	**0.0129**	
Beryllium		**-0.0001**	
Cadmium		**0.0008**	
Calcium	**500**	**480**	**96**
Chromium		**0.0013**	
Cobalt		**-0.0007**	
Copper		**-0.0003**	
Iron	**200**	**192**	**96**
Lead		**-0.0051**	
Magnesium	**500**	**510**	**102**
Manganese		**-0.0002**	
Nickel		**0.0004**	
Potassium		**0.234**	
Selenium		**-0.0010**	
Silver		**-0.0010**	
Sodium		**0.177**	
Thallium		**-0.0002**	
Vanadium		**-0.0018**	
Zinc		**0.0022**	
Boron		*0.0018*	
Lithium		*0.0073*	
Molybdenum		*0.0001*	
Tin		*0.0020*	
Titanium		*0.0025*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: ICSA 480-570190/8 Instrument ID: ICAP1

Lab File ID: I1021921A-2.asc ICS Source: MEI_MSS_ICSA_00026

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**500**	**505**	**101**
Antimony		**-0.0008**	
Arsenic		**-0.0073**	
Barium	**0.0120**	**0.0129**	
Beryllium		**-0.0001**	
Cadmium		**0.0008**	
Calcium	**500**	**480**	**96**
Chromium		**0.0013**	
Cobalt		**-0.0007**	
Copper		**-0.0003**	
Iron	**200**	**192**	**96**
Lead		**-0.0051**	
Magnesium	**500**	**510**	**102**
Manganese		**-0.0002**	
Nickel		**0.0004**	
Potassium		**0.234**	
Selenium		**-0.0010**	
Silver		**-0.0010**	
Sodium		**0.177**	
Thallium		**-0.0002**	
Vanadium		**-0.0018**	
Zinc		**0.0022**	
Boron		*0.0018*	
Lithium		*0.0073*	
Molybdenum		*0.0001*	
Silicon		*-0.0059*	
Sulfur		*-0.210*	
Tin		*0.0020*	
Titanium		*0.0025*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: ICSAB 480-570189/9 Instrument ID: ICAP1

Lab File ID: I1021921A-1.asc ICS Source: MEI_MSS_ICSAB_00023

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**500**	**506**	**101**
Antimony	**0.500**	**0.498**	**100**
Arsenic	**0.500**	**0.521**	**104**
Barium	**0.501**	**0.529**	**106**
Beryllium	**0.250**	**0.256**	**102**
Cadmium	**0.500**	**0.537**	**107**
Calcium	**500**	**482**	**96**
Chromium	**0.500**	**0.505**	**101**
Cobalt	**0.500**	**0.507**	**101**
Copper	**0.500**	**0.538**	**108**
Iron	**200**	**190**	**95**
Lead	**0.500**	**0.504**	**101**
Magnesium	**500**	**517**	**103**
Manganese	**0.501**	**0.499**	**100**
Nickel	**0.501**	**0.499**	**100**
Potassium	**5.00**	**5.51**	**110**
Selenium	**0.500**	**0.524**	**105**
Silver	**0.500**	**0.537**	**107**
Sodium	**5.00**	**5.61**	**112**
Thallium	**0.500**	**0.502**	**100**
Vanadium	**0.500**	**0.508**	**102**
Zinc	**0.501**	**0.460**	**92**
Boron	*5.00*	*4.95*	*99*
Lithium		*0.0058*	
Molybdenum	*0.500*	*0.508*	*102*
Strontium	*0.500*	*0.532*	*106*
Tin	*0.500*	*0.507*	*101*
Titanium	*0.500*	*0.512*	*102*

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Lab Sample ID: ICSAB 480-570190/9 Instrument ID: ICAP1

Lab File ID: I1021921A-2.asc ICS Source: MEI_MSS_ICSAB_00023

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**500**	**506**	**101**
Antimony	**0.500**	**0.498**	**100**
Arsenic	**0.500**	**0.521**	**104**
Barium	**0.501**	**0.529**	**106**
Beryllium	**0.250**	**0.256**	**102**
Cadmium	**0.500**	**0.537**	**107**
Calcium	**500**	**482**	**96**
Chromium	**0.500**	**0.505**	**101**
Cobalt	**0.500**	**0.507**	**101**
Copper	**0.500**	**0.538**	**108**
Iron	**200**	**190**	**95**
Lead	**0.500**	**0.504**	**101**
Magnesium	**500**	**517**	**103**
Manganese	**0.501**	**0.499**	**100**
Nickel	**0.501**	**0.499**	**100**
Potassium	**5.00**	**5.51**	**110**
Selenium	**0.500**	**0.524**	**105**
Silver	**0.500**	**0.537**	**107**
Sodium	**5.00**	**5.61**	**112**
Thallium	**0.500**	**0.502**	**100**
Vanadium	**0.500**	**0.508**	**102**
Zinc	**0.501**	**0.460**	**92**
Boron	*5.00*	*4.95*	*99*
Lithium		*0.0058*	
Molybdenum	*0.500*	*0.508*	*102*
Silicon	*5.00*	*4.74*	*95*
Strontium	*0.500*	*0.532*	*106*
Sulfur		*-0.233*	
Tin	*0.500*	*0.507*	*101*
Titanium	*0.500*	*0.512*	*102*

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

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: SB-12A (4-6) MS
Lab ID: 480-181249-3 MS
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-181249-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 79.6

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	9616		4110		2560	215	75-125	N	6010C
Antimony	39.44		19.3	U	51.3	77	75-125		6010C
Arsenic	45.70		1.1	J	51.3	87	75-125		6010C
Barium	71.84		19.1		51.3	103	75-125		6010C
Beryllium	45.36		0.21	J	51.3	88	75-125		6010C
Cadmium	44.50		0.26	U	51.3	87	75-125		6010C
Calcium	6806		3000		2560	148	75-125	N	6010C
Chromium	49.26		4.6		51.3	87	75-125		6010C
Cobalt	53.26		2.2		51.3	100	75-125		6010C
Copper	46.28		1.3		51.3	88	75-125		6010C
Iron	10060		6000		2560	159	75-125	N	6010C
Lead	52.68		1.5		51.3	100	75-125		6010C
Magnesium	4018		1230		2560	109	75-125		6010C
Manganese	143.1		60.1		51.3	162	75-125	N	6010C
Nickel	54.03		3.4	J	51.3	99	75-125		6010C
Potassium	3143		408		2560	107	75-125		6010C
Selenium	44.53		5.1	U	51.3	87	75-125		6010C
Silver	10.84		0.77	U	12.8	85	75-125		6010C
Sodium	3012		249		2570	108	75-125		6010C
Thallium	50.81		7.7	U	51.3	99	75-125		6010C
Vanadium	59.56		11.1		51.3	95	75-125		6010C
Zinc	61.94		14.5		51.3	93	75-125		6010C
Mercury	0.338		0.023	U	0.307	110	80-120		7471B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: SB-12A (4-6) MSD
Lab ID: 480-181249-3 MSD
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-181249-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 79.6

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Aluminum	12980		2670	333	75-125	30	20	N	6010C
Antimony	39.28		53.3	74	75-125	0	20	N	6010C
Arsenic	48.84		53.3	90	75-125	7	20		6010C
Barium	96.16		53.3	145	75-125	29	20	N	6010C
Beryllium	48.13		53.3	90	75-125	6	20		6010C
Cadmium	46.80		53.3	88	75-125	5	20		6010C
Calcium	7227		2670	158	75-125	6	20	N	6010C
Chromium	56.22		53.3	97	75-125	13	20		6010C
Cobalt	56.57		53.3	102	75-125	6	20		6010C
Copper	49.90		53.3	91	75-125	8	20		6010C
Iron	13090		2670	266	75-125	26	20	N	6010C
Lead	56.37		53.3	103	75-125	7	20		6010C
Magnesium	4790		2670	133	75-125	18	20	N	6010C
Manganese	170.4		53.3	207	75-125	17	20	N	6010C
Nickel	58.47		53.3	103	75-125	8	20		6010C
Potassium	4230		2670	143	75-125	29	20	N	6010C
Selenium	46.68		53.3	88	75-125	5	20		6010C
Silver	11.37		13.3	85	75-125	5	20		6010C
Sodium	3145		2670	108	75-125	4	20		6010C
Thallium	53.06		53.3	100	75-125	4	20		6010C
Vanadium	68.55		53.3	108	75-125	14	20		6010C
Zinc	70.02		53.3	104	75-125	12	20		6010C
Mercury	0.430		0.380	113	80-120	24	20	N	7471B

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: SB-12A (4-6) PDS | Lab ID: 480-181249-3 PDS

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-181249-1

SDG No.:

Matrix: Solid | Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	6143		4110		2570	79	80-120	N	6010C
Antimony	46.12		19.3	U	51.5	90	80-120		6010C
Arsenic	48.59		1.1	J	51.5	92	80-120		6010C
Barium	65.67		19.1		51.5	91	80-120		6010C
Beryllium	49.03		0.21	J	51.5	95	80-120		6010C
Cadmium	46.88		0.26	U	51.5	91	80-120		6010C
Calcium	5174		3000		2570	84	80-120		6010C
Chromium	49.37		4.6		51.5	87	80-120		6010C
Cobalt	53.08		2.2		51.5	99	80-120		6010C
Copper	48.76		1.3		51.5	92	80-120		6010C
Iron	7887		6000		2570	73	80-120	N	6010C
Lead	53.39		1.5		51.5	101	80-120		6010C
Magnesium	3454		1230		2570	86	80-120		6010C
Manganese	101.9		60.1		51.5	81	80-120		6010C
Nickel	53.93		3.4	J	51.5	98	80-120		6010C
Potassium	2680		408		2570	88	80-120		6010C
Selenium	46.86		5.1	U	51.5	91	80-120		6010C
Silver	11.26		0.77	U	12.9	88	80-120		6010C
Sodium	2474		249		2580	86	80-120		6010C
Thallium	51.48		7.7	U	51.5	100	80-120		6010C
Vanadium	56.60		11.1		51.5	88	80-120		6010C
Zinc	59.15		14.5		51.5	87	80-120		6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

7A-IN
LCS-CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 480-570033/2-A

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

Sample Matrix: Solid LCS Source: MED_SRM_D087_00028

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Aluminum	8190	8839		107.9	50.1	150.2		6010C
Antimony	110	80.94		73.6	22.2	254.5		6010C
Arsenic	162	148.5		91.7	70.4	130.2		6010C
Barium	138	123.9		89.8	74.6	124.6		6010C
Beryllium	157	144.4		92.0	75.2	125.5		6010C
Cadmium	135	124.5		92.2	74.8	124.4		6010C
Calcium	4790	4271		89.2	72.7	127.3		6010C
Chromium	117	104.9		89.7	70.1	129.9		6010C
Cobalt	92.6	95.00		102.6	75.1	125.3		6010C
Copper	143	128.9		90.1	74.8	124.5		6010C
Iron	15100	12460		82.5	37.2	162.9		6010C
Lead	77.6	82.38		106.2	68.8	131.4		6010C
Magnesium	2320	2160		93.1	62.1	137.9		6010C
Manganese	319	273.1		85.6	74.9	125.1		6010C
Nickel	79.9	81.83		102.4	70.0	130.2		6010C
Potassium	2050	1988		97.0	59.5	141.0		6010C
Selenium	172	159.3		92.6	68.0	132.6		6010C
Silver	24.7	21.66		87.7	67.2	133.2		6010C
Sodium	137	134.3	J	98.0	35.8	164.2		6010C
Thallium	88.0	92.79		105.4	66.0	134.1		6010C
Vanadium	99.9	91.26		91.3	67.4	132.1		6010C
Zinc	312	264.9		84.9	69.9	129.8		6010C

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-570015/2-A

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

Sample Matrix: Water LCS Source: MED_02_W2_00064

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Aluminum	10000	9804		98	80	120		6010C
Antimony	200	200.3		100	80	120		6010C
Arsenic	200	205.3		103	80	120		6010C
Barium	200	215.2		108	80	120		6010C
Beryllium	200	209.3		105	80	120		6010C
Cadmium	200	202.4		101	80	120		6010C
Calcium	10000	9992		100	80	120		6010C
Chromium	200	193.4		97	80	120		6010C
Cobalt	200	194.7		97	80	120		6010C
Copper	200	203.7		102	80	120		6010C
Iron	10000	9508		95	80	120		6010C
Lead	200	200.1		100	80	120		6010C
Magnesium	10000	9759		98	80	120		6010C
Manganese	200	196.2		98	80	120		6010C
Nickel	200	193.5		97	80	120		6010C
Potassium	10000	9680		97	80	120		6010C
Selenium	200	200.0		100	80	120		6010C
Silver	50.0	47.54		95	80	120		6010C
Sodium	10000	9567		96	80	120		6010C
Thallium	200	201.4		101	80	120		6010C
Vanadium	200	196.6		98	80	120		6010C
Zinc	200	195.7		98	80	120		6010C

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-570214/2-A

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

Sample Matrix: Water LCS Source: MEH_HG1_WKG_02479

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	6.67	6.87		103	80	120		7470A

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

FORM VIIA - IN

7A-IN
LCS-CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 480-570452/2-A ^10

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

Sample Matrix: Solid LCS Source: MED_SRM_D087_00028

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	27.2	30.03		110.4	59.9	140.1		7471B

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

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-181249-3

SDG No:

Lab Name: Eurofins TestAmerica, Buffalo Job No: 480-181249-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Aluminum	4110		4396		6.9		6010C
Antimony	19.3	U	96.5	U	NC		6010C
Arsenic	1.1	J	12.9	U	NC		6010C
Barium	19.1		20.96		10		6010C
Beryllium	0.21	J	0.187	J	NC		6010C
Cadmium	0.26	U	1.3	U	NC		6010C
Calcium	3000		3259		8.5		6010C
Chromium	4.6		5.11		NC		6010C
Cobalt	2.2		2.21	J	0.98		6010C
Copper	1.3		6.4	U	NC		6010C
Iron	6000		6543		9.1		6010C
Lead	1.5		6.4	U	NC		6010C
Magnesium	1230		1360		10		6010C
Manganese	60.1		64.57		7.5		6010C
Nickel	3.4	J	3.29	J	NC		6010C
Potassium	408		403.8		NC		6010C
Selenium	5.1	U	25.7	U	NC		6010C
Silver	0.77	U	3.9	U	NC		6010C
Sodium	249		231.5	J	NC		6010C
Thallium	7.7	U	38.6	U	NC		6010C
Vanadium	11.1		12.07		8.6		6010C
Zinc	14.5		16.04		NC		6010C

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

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-181249-1

SDG Number:

Matrix: Water Instrument ID: ICAP1

Method: 6010C MDL Date: 07/17/2013 11:47

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Aluminum	308.215	0.2	0.06
Antimony	206.833	0.02	0.00679
Arsenic	189.042	0.015	0.00555
Barium	455.403	0.002	0.0007
Beryllium	313.042	0.002	0.0003
Cadmium	228.802	0.002	0.0005
Calcium	317.933	0.5	0.1
Chromium	267.716	0.004	0.001
Cobalt	228.616	0.004	0.00063
Copper	327.396	0.01	0.0016
Iron	259.940	0.05	0.0193
Lead	220.353	0.01	0.003
Magnesium	279.079	0.2	0.0434
Manganese	257.610	0.003	0.0004
Nickel	231.604	0.01	0.00126
Potassium	766.490	0.5	0.1
Selenium	196.090	0.025	0.0087
Silver	328.068	0.006	0.0017
Sodium	589.592	1	0.324
Thallium	190.856	0.02	0.01024
Vanadium	292.402	0.005	0.0015
Zinc	206.200	0.01	0.0015

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-181249-1

SDG Number:

Matrix: Water Instrument ID: ICAP1

Method: 6010C XMDL Date: 07/17/2013 11:47

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Aluminum	308.215	0.2	0.06
Antimony	206.833	0.02	0.00679
Arsenic	189.042	0.015	0.00555
Barium	455.403	0.002	0.0007
Beryllium	313.042	0.002	0.0003
Cadmium	228.802	0.002	0.0005
Calcium	317.933	0.5	0.1
Chromium	267.716	0.004	0.001
Cobalt	228.616	0.004	0.00063
Copper	327.396	0.01	0.0016
Iron	259.940	0.05	0.0193
Lead	220.353	0.01	0.003
Magnesium	279.079	0.2	0.0434
Manganese	257.610	0.003	0.0004
Nickel	231.604	0.01	0.00126
Potassium	766.490	0.5	0.1
Selenium	196.090	0.025	0.0087
Silver	328.068	0.006	0.0017
Sodium	589.592	1	0.324
Thallium	190.856	0.02	0.01024
Vanadium	292.402	0.005	0.0015
Zinc	206.2	0.01	0.0015

9-IN
DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-181249-1

SDG Number:

Matrix: Solid Instrument ID: ICAP1

Method: 6010C MDL Date: 06/04/2015 15:22

Prep Method: 3050B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Aluminum	308.215	10	4.4
Antimony	206.833	15	0.4
Arsenic	189.042	2	0.4
Barium	455.403	0.5	0.11
Beryllium	313.042	0.2	0.028
Cadmium	228.802	0.2	0.03
Calcium	317.933	50	3.3
Chromium	267.716	0.5	0.2
Cobalt	228.616	0.5	0.05
Copper	327.396	1	0.21
Iron	259.940	10	3.5
Lead	220.353	1	0.24
Magnesium	279.079	20	0.927
Manganese	257.610	0.2	0.032
Nickel	231.604	5	0.23
Potassium	766.490	30	20
Selenium	196.090	4	0.4
Silver	328.068	0.6	0.2
Sodium	589.592	140	13
Thallium	190.856	6	0.3
Vanadium	292.402	0.5	0.11
Zinc	206.200	2	0.64

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-181249-1

SDG Number:

Matrix: Solid Instrument ID: ICAP1

Method: 6010C XMDL Date: 07/17/2013 10:53

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Aluminum	308.215	0.2	0.06
Antimony	206.833	0.02	0.00679
Arsenic	189.042	0.015	0.00555
Barium	455.403	0.002	0.0007
Beryllium	313.042	0.002	0.0003
Cadmium	228.802	0.002	0.0005
Calcium	317.933	0.5	0.1
Chromium	267.716	0.004	0.001
Cobalt	228.616	0.004	0.00063
Copper	327.396	0.01	0.0016
Iron	259.940	0.05	0.0193
Lead	220.353	0.01	0.003
Magnesium	279.079	0.2	0.0434
Manganese	257.610	0.003	0.0004
Nickel	231.604	0.01	0.00126
Potassium	766.490	0.5	0.1
Selenium	196.090	0.025	0.0087
Silver	328.068	0.006	0.0017
Sodium	589.592	1	0.324
Thallium	190.856	0.02	0.01024
Vanadium	292.402	0.005	0.0015
Zinc	206.200	0.01	0.0015

9-IN
DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-181249-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN5

Method: 7470A MDL Date: 01/28/2010 00:00

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Mercury	253.7	0.0002	0.00012

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-181249-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN5

Method: 7470A XMDL Date: 01/28/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury	253.7	0.0002	0.00012

9-IN
DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-181249-1

SDG Number:

Matrix: Solid Instrument ID: LEEMAN5

Method: 7471B MDL Date: 01/29/2010 00:00

Prep Method: 7471B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Mercury	253.7	0.02	0.0081

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-181249-1

SDG Number:

Matrix: Solid Instrument ID: LEEMAN5

Method: 7471B XMDL Date: 01/29/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury	253.7	0.0002	0.00012

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-181249-1

SDG No.:

ICP-AES Instrument ID: ICAP1 Date: 11/23/2020

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Ce	Co	Cr	Cu	Fe	K
Aluminum	308.215														
Antimony	206.833											0.005976		0.000013	
Arsenic	189.042		-0.00003300									-0.011195			
Barium	455.403														
Beryllium	313.042														
Boron	208.959														
Cadmium	228.802			0.003343										0.000001	
Calcium	317.933														
Chromium	267.716		0.000013											-0.000007	
Cobalt	228.616														
Copper	327.396							0.000008							
Iron	259.940														
Lead	220.353		-0.000031										0.000143	0.000041	
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610		0.000006											0.000003	
Molybdenum	202.030														
Nickel	231.604													0.000010	
Potassium	766.490														
Selenium	196.090		-0.000019												
Silicon	288.158														
Silver	328.068									-0.006683					
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														
Thallium	190.856										0.004598				
Tin	189.989														
Titanium	334.904														
Vanadium	292.402													0.00002	

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-181249-1

SDG No.:

ICP-AES Instrument ID: ICAP1 Date: 11/23/2020

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Ce	Co	Cr	Cu	Fe	K
Zinc	206.200											-0.001456			

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-181249-1

SDG No.:

ICP-AES Instrument ID: ICAP1 Date: 11/23/2020

Analyte	Wave Length	Li	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Se	Si	Sn	Sr	Ti
Aluminum	308.215														
Antimony	206.833														
Arsenic	189.042														
Barium	455.403														
Beryllium	313.042														-0.001025
Boron	208.959				0.002541										
Cadmium	228.802														
Calcium	317.933														
Chromium	267.716			0.000064											
Cobalt	228.616				-0.001081										0.001734
Copper	327.396														
Iron	259.940														
Lead	220.353				-0.001520							0.000018			
Lithium	670.784														
Magnesium	279.079			-0.003583											
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604														
Potassium	766.490														
Selenium	196.090			0.000315											
Silicon	288.158														
Silver	328.068			0.000072											
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														
Thallium	190.856			0.000597											
Tin	189.989														
Titanium	334.904				.01185109										
Vanadium	292.402				0.012980										0.000492
Zinc	206.200														

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-181249-1

SDG No.:

ICP-AES Instrument ID: ICAP1 Date: 11/23/2020

Analyte	Wave Length	Tl	V	Zn											
Aluminum	308.215														
Antimony	206.833														
Arsenic	189.042														
Barium	455.403														
Beryllium	313.042														
Boron	208.959														
Cadmium	228.802														
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616														
Copper	327.396														
Iron	259.940														
Lead	220.353														
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604														
Potassium	766.490														
Selenium	196.090														
Silicon	288.158														
Silver	328.068														
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														
Thallium	190.856		0.002141												
Tin	189.989														
Titanium	334.904														
Vanadium	292.402														
Zinc	206.200														

X-IN

11-IN
LINEAR RANGES
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No: 480-181249-1

SDG No.:

Instrument ID: ICAP1 Date: 08/01/2019 09:58

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Aluminum	15	600	6010C
Antimony	15	10	6010C
Arsenic	15	5	6010C
Barium	15	10	6010C
Beryllium	15	25	6010C
Cadmium	15	5	6010C
Calcium	15	1000	6010C
Chromium	15	10	6010C
Cobalt	15	20	6010C
Copper	15	25	6010C
Iron	15	600	6010C
Lead	15	120	6010C
Magnesium	15	500	6010C
Manganese	15	50	6010C
Nickel	15	10	6010C
Potassium	15	600	6010C
Selenium	15	60	6010C
Silver	15	3	6010C
Sodium	15	1000	6010C
Thallium	15	20	6010C
Vanadium	15	5	6010C
Zinc	15	20	6010C

11-IN
LINEAR RANGES
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No: 480-181249-1

SDG No.:

Instrument ID: LEEMAN5 Date: 10/09/2018 16:19

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury	10	20	7470A
Mercury	10	20	7471B

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-570015/1-A	02/19/2021 09:05	570015		50	50
LCS 480-570015/2-A	02/19/2021 09:05	570015		50	50
480-181249-5	02/19/2021 09:05	570015		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 480-570033/1-A	02/18/2021 16:33	570033	0.5182		50
LCSSRM 480-570033/2-A	02/18/2021 16:33	570033	0.4934		50
480-181249-1	02/18/2021 16:33	570033	0.4926		50
480-181249-2	02/18/2021 16:33	570033	0.4917		50
480-181249-3	02/18/2021 16:33	570033	0.4854		50
480-181249-3 MS	02/18/2021 16:33	570033	0.4905		50
480-181249-3 MSD	02/18/2021 16:33	570033	0.4715		50
480-181249-4	02/18/2021 16:33	570033	0.5238		50
480-181249-6	02/18/2021 16:33	570033	0.4993		50

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-570214/1-A	02/22/2021 13:02	570214		30	50
LCS 480-570214/2-A	02/22/2021 13:02	570214		30	50
480-181249-5	02/22/2021 13:02	570214		30	50

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Prep Method: 7471B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 480-570452/1-A	02/24/2021 13:29	570452	0.7685		50
LCSSRM 480-570452/2-A ^10	02/24/2021 13:29	570452	0.1848		50
480-181249-1	02/24/2021 13:29	570452	0.6348		50
480-181249-2	02/24/2021 13:29	570452	0.4152		50
480-181249-3	02/24/2021 13:29	570452	0.6447		50
480-181249-3 MS	02/24/2021 13:29	570452	0.8189		50
480-181249-3 MSD	02/24/2021 13:29	570452	0.6619		50
480-181249-4	02/24/2021 13:29	570452	0.9116		50
480-181249-6	02/24/2021 13:29	570452	0.6344		50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Instrument ID: ICAP1 Method: 6010C

Start Date: 02/19/2021 13:07 End Date: 02/19/2021 15:57

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ICIS 480-570189/1	1		13:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-570189/2			13:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-570189/3			13:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-570189/4			13:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 480-570189/5	1		13:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 480-570189/6	1		13:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICVL 480-570189/7	1		13:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 480-570189/8	1		13:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 480-570189/9	1		13:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			13:41																				
ZZZZZZ			13:45																				
ZZZZZZ			13:49																				
ZZZZZZ			13:53																				
ZZZZZZ			13:56																				
CCV 480-570189/15	1		14:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-570189/16	1		14:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-570189/17	1		14:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 480-570033/1-A	1	T	14:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCSSRM 480-570033/2-A	1	T	14:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			14:38																				
480-181249-1	1	T	14:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-181249-2	1	T	14:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-181249-3	1	T	14:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-181249-3 SD	5	T	14:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-181249-3 PDS	1	T	14:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-181249-3 MS	1	T	15:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 480-570189/27	1		15:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-570189/28	1		15:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-570189/29	1		15:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-181249-3 MSD	1	T	15:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-181249-4	1	T	15:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-181249-6	1	T	15:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			15:27																				
CCV 480-570189/34	1		15:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-570189/35	1		15:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-570189/36	1		15:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Instrument ID: ICAP1 Method: 6010C

Start Date: 02/19/2021 13:07 End Date: 02/19/2021 15:57

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
ICIS 480-570189/1	1		13:07	X	X																		
IC 480-570189/2			13:10	X	X																		
IC 480-570189/3			13:14	X	X																		
IC 480-570189/4			13:18	X	X																		
ICV 480-570189/5	1		13:22	X	X																		
ICB 480-570189/6	1		13:25	X	X																		
ICVL 480-570189/7	1		13:29	X	X																		
ICSA 480-570189/8	1		13:33	X	X																		
ICSAB 480-570189/9	1		13:37	X	X																		
ZZZZZZ			13:41																				
ZZZZZZ			13:45																				
ZZZZZZ			13:49																				
ZZZZZZ			13:53																				
ZZZZZZ			13:56																				
CCV 480-570189/15	1		14:00	X	X																		
CCB 480-570189/16	1		14:04	X	X																		
CCVL 480-570189/17	1		14:27	X	X																		
MB 480-570033/1-A	1	T	14:31	X	X																		
LCSSRM 480-570033/2-A	1	T	14:35	X	X																		
ZZZZZZ			14:38																				
480-181249-1	1	T	14:42	X	X																		
480-181249-2	1	T	14:46	X	X																		
480-181249-3	1	T	14:50	X	X																		
480-181249-3 SD	5	T	14:53	X	X																		
480-181249-3 PDS	1	T	14:57	X	X																		
480-181249-3 MS	1	T	15:01	X	X																		
CCV 480-570189/27	1		15:05	X	X																		
CCB 480-570189/28	1		15:08	X	X																		
CCVL 480-570189/29	1		15:12	X	X																		
480-181249-3 MSD	1	T	15:16	X	X																		
480-181249-4	1	T	15:20	X	X																		
480-181249-6	1	T	15:23	X	X																		
ZZZZZZ			15:27																				
CCV 480-570189/34	1		15:50	X	X																		
CCB 480-570189/35	1		15:53	X	X																		
CCVL 480-570189/36	1		15:57	X	X																		

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Instrument ID: ICAP1 Method: 6010C

Start Date: 02/19/2021 13:07 End Date: 02/19/2021 18:13

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ICIS 480-570190/1	1		13:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-570190/2			13:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-570190/3			13:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-570190/4			13:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 480-570190/5	1		13:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 480-570190/6	1		13:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICVL 480-570190/7	1		13:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 480-570190/8	1		13:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 480-570190/9	1		13:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			13:41																				
ZZZZZZ			13:45																				
ZZZZZZ			13:49																				
ZZZZZZ			13:53																				
ZZZZZZ			13:56																				
CCV 480-570190/15			14:00																				
CCB 480-570190/16			14:04																				
CCV 480-570190/17	1		15:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-570190/18	1		15:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-570190/19	1		15:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 480-570015/1-A	1	T	15:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCS 480-570015/2-A	1	T	15:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-181249-5	1	T	15:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			15:42																				
ZZZZZZ			15:46																				
CCV 480-570190/25	1		15:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-570190/26	1		15:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-570190/27	1		15:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			16:01																				
ZZZZZZ			16:05																				
ZZZZZZ			16:08																				
ZZZZZZ			16:12																				
ZZZZZZ			16:16																				
ZZZZZZ			16:19																				
ZZZZZZ			16:23																				
ZZZZZZ			16:27																				
ZZZZZZ			16:31																				
CCV 480-570190/37	1		16:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-570190/38	1		16:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-570190/39	1		16:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			16:46																				
ZZZZZZ			16:50																				
ZZZZZZ			16:53																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Instrument ID: ICAP1 Method: 6010C

Start Date: 02/19/2021 13:07 End Date: 02/19/2021 18:13

Lab Sample ID	D / F	Type	Time	Analytes																				
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ZZZZZZ			16:57																					
ZZZZZZ			17:01																					
ZZZZZZ			17:05																					
ZZZZZZ			17:08																					
ZZZZZZ			17:12																					
ZZZZZZ			17:16																					
CCV 480-570190/49			17:20																					
CCB 480-570190/50			17:23																					
CCVL 480-570190/51			17:27																					
ZZZZZZ			17:31																					
ZZZZZZ			17:35																					
ZZZZZZ			17:39																					
CCV 480-570190/55			18:05																					
CCB 480-570190/56			18:09																					
CCVL 480-570190/57			18:13																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Instrument ID: ICAP1 Method: 6010C

Start Date: 02/19/2021 13:07 End Date: 02/19/2021 18:13

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
ICIS 480-570190/1	1		13:07	X	X																		
IC 480-570190/2			13:10	X	X																		
IC 480-570190/3			13:14	X	X																		
IC 480-570190/4			13:18	X	X																		
ICV 480-570190/5	1		13:22	X	X																		
ICB 480-570190/6	1		13:25	X	X																		
ICVL 480-570190/7	1		13:29	X	X																		
ICSA 480-570190/8	1		13:33	X	X																		
ICSAB 480-570190/9	1		13:37	X	X																		
ZZZZZZ			13:41																				
ZZZZZZ			13:45																				
ZZZZZZ			13:49																				
ZZZZZZ			13:53																				
ZZZZZZ			13:56																				
CCV 480-570190/15			14:00																				
CCB 480-570190/16			14:04																				
CCV 480-570190/17	1		15:05	X	X																		
CCB 480-570190/18	1		15:08	X	X																		
CCVL 480-570190/19	1		15:12	X	X																		
MB 480-570015/1-A	1	T	15:31	X	X																		
LCS 480-570015/2-A	1	T	15:35	X	X																		
480-181249-5	1	T	15:38	X	X																		
ZZZZZZ			15:42																				
ZZZZZZ			15:46																				
CCV 480-570190/25	1		15:50	X	X																		
CCB 480-570190/26	1		15:53	X	X																		
CCVL 480-570190/27	1		15:57	X	X																		
ZZZZZZ			16:01																				
ZZZZZZ			16:05																				
ZZZZZZ			16:08																				
ZZZZZZ			16:12																				
ZZZZZZ			16:16																				
ZZZZZZ			16:19																				
ZZZZZZ			16:23																				
ZZZZZZ			16:27																				
ZZZZZZ			16:31																				
CCV 480-570190/37	1		16:35	X	X																		
CCB 480-570190/38	1		16:38	X	X																		
CCVL 480-570190/39	1		16:42	X	X																		
ZZZZZZ			16:46																				
ZZZZZZ			16:50																				
ZZZZZZ			16:53																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Instrument ID: ICAP1 Method: 6010C

Start Date: 02/19/2021 13:07 End Date: 02/19/2021 18:13

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
ZZZZZZ			16:57																				
ZZZZZZ			17:01																				
ZZZZZZ			17:05																				
ZZZZZZ			17:08																				
ZZZZZZ			17:12																				
ZZZZZZ			17:16																				
CCV 480-570190/49			17:20																				
CCB 480-570190/50			17:23																				
CCVL 480-570190/51			17:27																				
ZZZZZZ			17:31																				
ZZZZZZ			17:35																				
ZZZZZZ			17:39																				
CCV 480-570190/55			18:05																				
CCB 480-570190/56			18:09																				
CCVL 480-570190/57			18:13																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Instrument ID: LEEMAN5 Method: 7470A

Start Date: 02/22/2021 15:50 End Date: 02/22/2021 16:33

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
IC 480-570231/1-A			15:50	X																			
IC 480-570231/2-A			15:51	X																			
IC 480-570231/3-A			15:53	X																			
IC 480-570231/4-A			15:54	X																			
IC 480-570231/5-A			15:55	X																			
IC 480-570231/6-A			15:57	X																			
ICV 480-570241/7	1		15:58	X																			
ICB 480-570241/8	1		15:59	X																			
ICVL 480-570241/9	1		16:01	X																			
CCV 480-570241/10	1		16:02	X																			
CCB 480-570241/11	1		16:03	X																			
MB 480-570214/1-A	1	T	16:05	X																			
LCS 480-570214/2-A	1	T	16:06	X																			
ZZZZZZ			16:07																				
ZZZZZZ			16:08																				
ZZZZZZ			16:10																				
ZZZZZZ			16:11																				
ZZZZZZ			16:12																				
ZZZZZZ			16:14																				
ZZZZZZ			16:15																				
480-181249-5	1	T	16:16	X																			
CCV 480-570241/22	1		16:18	X																			
CCB 480-570241/23	1		16:19	X																			
ZZZZZZ			16:20																				
ZZZZZZ			16:21																				
ZZZZZZ			16:23																				
ZZZZZZ			16:24																				
ZZZZZZ			16:25																				
ZZZZZZ			16:27																				
ZZZZZZ			16:28																				
ZZZZZZ			16:29																				
CCV 480-570241/32	1		16:31	X																			
CCB 480-570241/33	1		16:32	X																			
CCVL 480-570241/34	1		16:33	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Instrument ID: LEEMAN5 Method: 7471B

Start Date: 02/24/2021 14:27 End Date: 02/24/2021 15:25

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			14:27																				
IC 480-570470/1-A			14:29	X																			
IC 480-570470/2-A			14:30	X																			
IC 480-570470/3-A			14:31	X																			
IC 480-570470/4-A			14:33	X																			
IC 480-570470/5-A			14:34	X																			
IC 480-570470/6-A			14:35	X																			
ICV 480-570474/8	1		14:37	X																			
ICB 480-570474/9	1		14:38	X																			
ICVL 480-570474/10	1		14:39	X																			
CCV 480-570474/11	1		14:41	X																			
CCB 480-570474/12	1		14:42	X																			
MB 480-570452/1-A	1	T	14:43	X																			
LCSSRM 480-570452/2-A ^10	10	T	14:44	X																			
ZZZZZZ			14:46																				
ZZZZZZ			14:47																				
ZZZZZZ			14:48																				
ZZZZZZ			14:50																				
ZZZZZZ			14:51																				
ZZZZZZ			14:52																				
ZZZZZZ			14:53																				
480-181249-1	1	T	14:55	X																			
CCV 480-570474/23	1		14:56	X																			
CCB 480-570474/24	1		14:57	X																			
480-181249-2	1	T	14:59	X																			
480-181249-3	1	T	15:00	X																			
480-181249-3 MS	1	T	15:01	X																			
480-181249-3 MSD	1	T	15:03	X																			
480-181249-4	1	T	15:04	X																			
480-181249-6	1	T	15:05	X																			
ZZZZZZ			15:07																				
ZZZZZZ			15:08																				
ZZZZZZ			15:09																				
ZZZZZZ			15:10																				
CCV 480-570474/35	1		15:12	X																			
CCB 480-570474/36	1		15:13	X																			
ZZZZZZ			15:14																				
ZZZZZZ			15:16																				
ZZZZZZ			15:17																				
ZZZZZZ			15:18																				
ZZZZZZ			15:20																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Instrument ID: LEEMAN5 Method: 7471B

Start Date: 02/24/2021 14:27 End Date: 02/24/2021 15:25

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			15:21																				
CCV 480-570474/43			15:22																				
CCB 480-570474/44			15:23																				
CCVL 480-570474/45	1		15:25	X																			

Prep Types

T = Total/NA

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.: Analysis Batch No.: 570189

ICP Instrument ID: ICAP1 Start Date: 02/19/2021 End Date: 02/19/2021

Lab Sample ID	Time	Internal Standards %RI For:									
		Element In 230.606	Q	Element Y 224.306	Q	Element Y 360.073	Q	Element Y 377.433	Q	Element	Q
ICIS 480-570189/1	13:07										
ICV 480-570189/5	13:22	87		95		93		99			
ICB 480-570189/6	13:25	101		101		101		101			
ICVL 480-570189/7	13:29	100		101		101		103			
ICSA 480-570189/8	13:33	75		87		85		95			
ICSAB 480-570189/9	13:37	75		87		85		97			
CCV 480-570189/15	14:00	87		96		94		100			
CCB 480-570189/16	14:04	99		99		100		100			
CCVL 480-570189/17	14:27	99		100		101		102			
MB 480-570033/1-A	14:31	99		100		102		102			
LCSSRM 480-570033/2-A	14:35	90		111		111		116			
480-181249-1	14:42	93		111		112		116			
480-181249-2	14:46	80		105		104		116			
480-181249-3	14:50	94		110		111		115			
480-181249-3 SD	14:53	98		102		104		106			
480-181249-3 PDS	14:57	89		106		107		111			
480-181249-3 MS	15:01	88		112		111		116			
CCV 480-570189/27	15:05	87		97		96		102			
CCB 480-570189/28	15:08	98		98		99		99			
CCVL 480-570189/29	15:12	99		100		100		99			
480-181249-3 MSD	15:16	87		110		108		114			
480-181249-4	15:20	90		110		109		114			
480-181249-6	15:23	93		109		109		112			
CCV 480-570189/34	15:50	87		96		95		100			
CCB 480-570189/35	15:53	101		101		101		101			
CCVL 480-570189/36	15:57	101		102		104		104			

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.: Analysis Batch No.: 570190

ICP Instrument ID: ICAP1 Start Date: 02/19/2021 End Date: 02/19/2021

Lab Sample ID	Time	Internal Standards %RI For:									
		Element In 230.606	Q	Element Y 224.306	Q	Element Y 360.073	Q	Element Y 377.433	Q	Element	Q
ICIS 480-570190/1	13:07										
ICV 480-570190/5	13:22	87		95		93		99			
ICB 480-570190/6	13:25	101		101		101		101			
ICVL 480-570190/7	13:29	100		101		101		103			
ICSA 480-570190/8	13:33	75		87		85		95			
ICSAB 480-570190/9	13:37	75		87		85		97			
CCV 480-570190/17	15:05	87		97		96		102			
CCB 480-570190/18	15:08	98		98		99		99			
CCVL 480-570190/19	15:12	99		100		100		99			
MB 480-570015/1-A	15:31	101		102		104		105			
LCS 480-570015/2-A	15:35	95		99		100		102			
480-181249-5	15:38	100		100		102		103			
CCV 480-570190/25	15:50	87		96		95		100			
CCB 480-570190/26	15:53	101		101		101		101			
CCVL 480-570190/27	15:57	101		102		104		104			
CCV 480-570190/37	16:35	87		96		94		99			
CCB 480-570190/38	16:38	99		99		99		98			
CCVL 480-570190/39	16:42	98		99		100		98			

Run File: I1021921A

Instrument: ICAP1

Analyst: AMH

Data Review: AMH 2/22/21

Spikes Ids:6092437(W1), 6090031(W2) 6257736(Sn), 6278135(Ag), 6278146(Si), 6322827(S), 5817361(TCLP)
Pipette Ids: 11/17/20-(1-11)
Internal Standard: 6337476

Seq#	Run File ID	Sample ID	Date / Time	Sample Type
1	I1021921A	ICIS-6338400	02/19/21 01:07 PM	Standard
2	I1021921A	IC-6339744	02/19/21 01:10 PM	Standard
3	I1021921A	IC-6339745	02/19/21 01:14 PM	Standard
4	I1021921A	IC-6326557	02/19/21 01:18 PM	Standard
5	I1021921A	ICV-6337475	02/19/21 01:22 PM	QC
6	I1021921A	ICB-6338400	02/19/21 01:25 PM	QC
7	I1021921A	ICVL-6339744	02/19/21 01:29 PM	QC
8	I1021921A	ICSA-6339169	02/19/21 01:33 PM	QC
9	I1021921A	ICSAB-6322865	02/19/21 01:37 PM	QC
10	I1021921A	ICEX1	02/19/21 01:41 PM	Unknown
11	I1021921A	ICEX2	02/19/21 01:45 PM	Unknown
12	I1021921A	ICEX3	02/19/21 01:49 PM	Unknown
13	I1021921A	ICEX4	02/19/21 01:53 PM	Unknown
14	I1021921A	ICEX5	02/19/21 01:56 PM	Unknown
15	I1021921A	CCV-6339745	02/19/21 02:00 PM	QC
16	I1021921A	CCB-6338400	02/19/21 02:04 PM	QC
17	I1021921A	CCVL-6339744	02/19/21 02:27 PM	QC
18	I1021921A	MB 480-570033/1-A	02/19/21 02:31 PM	Unknown
19	I1021921A	LCSSRM 480-570033/2-	02/19/21 02:35 PM	Unknown
20	I1021921A	480-181224-A-1-B	02/19/21 02:38 PM	Unknown
21	I1021921A	480-181249-C-1-A	02/19/21 02:42 PM	Unknown
22	I1021921A	480-181249-B-2-A	02/19/21 02:46 PM	Unknown
23	I1021921A	480-181249-C-3-A	02/19/21 02:50 PM	Unknown
24	I1021921A	480-181249-C-3-ASD@5	02/19/21 02:53 PM	Unknown
25	I1021921A	480-181249-C-3-APDS	02/19/21 02:57 PM	Unknown
26	I1021921A	480-181249-C-3-B MS	02/19/21 03:01 PM	Unknown
27	I1021921A	CCV-6339745	02/19/21 03:05 PM	QC
28	I1021921A	CCB-6338400	02/19/21 03:08 PM	QC
29	I1021921A	CCVL-6339744	02/19/21 03:12 PM	QC
30	I1021921A	480-181249-C-3-C MSD	02/19/21 03:16 PM	Unknown
31	I1021921A	480-181249-C-4-A	02/19/21 03:20 PM	Unknown
32	I1021921A	480-181249-C-6-A	02/19/21 03:23 PM	Unknown
33	I1021921A	480-181292-C-1-A	02/19/21 03:27 PM	Unknown
34	I1021921A	MB 480-570015/1-A	02/19/21 03:31 PM	Unknown
35	I1021921A	LCS 480-570015/2-A	02/19/21 03:35 PM	Unknown
36	I1021921A	480-181249-C-5-A	02/19/21 03:38 PM	Unknown
37	I1021921A	480-181262-D-3-A	02/19/21 03:42 PM	Unknown
38	I1021921A	480-181277-C-1-A	02/19/21 03:46 PM	Unknown
39	I1021921A	CCV-6339745	02/19/21 03:50 PM	QC
40	I1021921A	CCB-6338400	02/19/21 03:53 PM	QC
41	I1021921A	CCVL-6339744	02/19/21 03:57 PM	QC
42	I1021921A	480-181277-C-2-A	02/19/21 04:01 PM	Unknown

43	I1021921A	480-181277-C-2-ASD@5	02/19/21 04:05 PM	Unknown
44	I1021921A	480-181277-C-2-APDS	02/19/21 04:08 PM	Unknown
45	I1021921A	480-181277-C-2-B MS	02/19/21 04:12 PM	Unknown
46	I1021921A	480-181277-C-2-C MSD	02/19/21 04:16 PM	Unknown
47	I1021921A	480-181277-C-3-A	02/19/21 04:19 PM	Unknown
48	I1021921A	480-181277-C-4-A	02/19/21 04:23 PM	Unknown
49	I1021921A	480-181290-B-1-A	02/19/21 04:27 PM	Unknown
50	I1021921A	480-181290-B-2-A	02/19/21 04:31 PM	Unknown
51	I1021921A	CCV-6339745	02/19/21 04:35 PM	QC
52	I1021921A	CCB-6338400	02/19/21 04:38 PM	QC
53	I1021921A	CCVL-6339744	02/19/21 04:42 PM	QC
54	I1021921A	480-181290-B-3-A	02/19/21 04:46 PM	Unknown
55	I1021921A	480-181290-B-4-A	02/19/21 04:50 PM	Unknown
56	I1021921A	480-181290-B-5-A	02/19/21 04:53 PM	Unknown
57	I1021921A	480-181290-B-6-A	02/19/21 04:57 PM	Unknown
58	I1021921A	480-181290-B-7-A	02/19/21 05:01 PM	Unknown
59	I1021921A	480-181290-B-8-A	02/19/21 05:05 PM	Unknown
60	I1021921A	480-181290-B-9-A	02/19/21 05:08 PM	Unknown
61	I1021921A	480-181290-B-10-A	02/19/21 05:12 PM	Unknown
62	I1021921A	480-181290-B-11-A	02/19/21 05:16 PM	Unknown
63	I1021921A	CCV-6339745	02/19/21 05:20 PM	QC
64	I1021921A	CCB-6338400	02/19/21 05:23 PM	QC
65	I1021921A	CCVL-6339744	02/19/21 05:27 PM	QC
66	I1021921A	480-181290-B-12-A	02/19/21 05:31 PM	Unknown
67	I1021921A	480-181244-C-1-B	02/19/21 05:35 PM	Unknown
68	I1021921A	480-181244-C-2-B	02/19/21 05:39 PM	Unknown
69	I1021921A	MB 480-570023/1-A	02/19/21 05:43 PM	Unknown
70	I1021921A	LCS 480-570023/2-A	02/19/21 05:47 PM	Unknown
71	I1021921A	480-181278-C-1-A	02/19/21 05:51 PM	Unknown
72	I1021921A	480-181278-C-2-A	02/19/21 05:54 PM	Unknown
73	I1021921A	480-181278-C-3-A	02/19/21 05:58 PM	Unknown
74	I1021921A	480-181278-C-4-A	02/19/21 06:02 PM	Unknown
75	I1021921A	CCV-6339745	02/19/21 06:05 PM	QC
76	I1021921A	CCB-6338400	02/19/21 06:09 PM	QC
77	I1021921A	CCVL-6339744	02/19/21 06:13 PM	QC
78	I1021921A	480-181278-C-5-A	02/19/21 06:17 PM	Unknown
79	I1021921A	480-181278-C-6-A	02/19/21 06:20 PM	Unknown
80	I1021921A	480-181278-C-7-A	02/19/21 06:24 PM	Unknown
81	I1021921A	480-181278-C-8-A	02/19/21 06:28 PM	Unknown
82	I1021921A	480-181275-F-1-A	02/19/21 06:32 PM	Unknown
83	I1021921A	480-181293-H-1-A	02/19/21 06:36 PM	Unknown
84	I1021921A	480-181293-H-1-ASD@5	02/19/21 06:39 PM	Unknown
85	I1021921A	480-181293-H-1-APDS	02/19/21 06:43 PM	Unknown
86	I1021921A	480-181293-H-1-B MS	02/19/21 06:47 PM	Unknown
87	I1021921A	CCV-6339745	02/19/21 06:50 PM	QC
88	I1021921A	CCB-6338400	02/19/21 06:54 PM	QC
89	I1021921A	CCVL-6339744	02/19/21 06:58 PM	QC
90	I1021921A	480-181293-H-1-C MSD	02/19/21 07:01 PM	Unknown
91	I1021921A	480-181293-H-2-A	02/19/21 07:05 PM	Unknown
92	I1021921A	480-181276-C-1-A	02/19/21 07:09 PM	Unknown
93	I1021921A	480-181247-A-1-A@5	02/19/21 07:13 PM	Unknown
94	I1021921A	480-181247-A-4-A@5	02/19/21 07:16 PM	Unknown

95	I1021921A	480-181247-A-5-A@5	02/19/21 07:20 PM	Unknown
96	I1021921A	480-181248-A-5-A@5	02/19/21 07:24 PM	Unknown
97	I1021921A	480-181248-A-7-A@5	02/19/21 07:28 PM	Unknown
98	I1021921A	480-181248-A-9-A@5	02/19/21 07:31 PM	Unknown
99	I1021921A	CCV-6339745	02/19/21 07:35 PM	QC
100	I1021921A	CCB-6338400	02/19/21 07:39 PM	QC
101	I1021921A	CCVL-6339744	02/19/21 07:43 PM	QC
102	I1021921A	MB 480-569860/1-A	02/19/21 07:46 PM	Unknown
103	I1021921A	LCS 480-569860/2-A	02/19/21 07:50 PM	Unknown
104	I1021921A	rinse	02/19/21 07:54 PM	Unknown
105	I1021921A	rinse	02/19/21 07:58 PM	Unknown
106	I1021921A	480-181049-C-2-B	02/19/21 08:01 PM	Unknown
107	I1021921A	480-181049-C-2-BSD@5	02/19/21 08:05 PM	Unknown
108	I1021921A	480-181049-C-2-BPDS	02/19/21 08:09 PM	Unknown
109	I1021921A	480-181049-C-2-C MS	02/19/21 08:13 PM	Unknown
110	I1021921A	480-181049-C-2-D MSD	02/19/21 08:16 PM	Unknown
111	I1021921A	CCV-6339745	02/19/21 08:20 PM	QC
112	I1021921A	CCB-6338400	02/19/21 08:23 PM	QC
113	I1021921A	CCVL-6339744	02/19/21 08:27 PM	QC
114	I1021921A	480-181247-A-1-A	02/19/21 08:31 PM	Unknown
115	I1021921A	480-181247-A-2-A	02/19/21 08:35 PM	Unknown
116	I1021921A	480-181247-A-3-A	02/19/21 08:39 PM	Unknown
117	I1021921A	480-181247-A-4-A	02/19/21 08:42 PM	Unknown
118	I1021921A	480-181247-A-5-A	02/19/21 08:46 PM	Unknown
119	I1021921A	480-181247-A-6-A	02/19/21 08:50 PM	Unknown
120	I1021921A	480-181247-A-7-A	02/19/21 08:54 PM	Unknown
121	I1021921A	480-181247-A-8-A	02/19/21 08:58 PM	Unknown
122	I1021921A	480-181247-A-9-A	02/19/21 09:01 PM	Unknown
123	I1021921A	CCV-6339745	02/19/21 09:05 PM	QC
124	I1021921A	CCB-6338400	02/19/21 09:09 PM	QC
125	I1021921A	CCVL-6339744	02/19/21 09:13 PM	QC
126	I1021921A	480-181248-A-1-A	02/19/21 09:16 PM	Unknown
127	I1021921A	480-181248-A-2-A	02/19/21 09:20 PM	Unknown
128	I1021921A	480-181248-A-3-A	02/19/21 09:24 PM	Unknown
129	I1021921A	480-181248-A-4-A	02/19/21 09:28 PM	Unknown
130	I1021921A	480-181248-A-5-A	02/19/21 09:31 PM	Unknown
131	I1021921A	480-181248-A-6-A	02/19/21 09:35 PM	Unknown
132	I1021921A	480-181248-A-7-A	02/19/21 09:39 PM	Unknown
133	I1021921A	480-181248-A-8-A	02/19/21 09:43 PM	Unknown
134	I1021921A	480-181248-A-9-A	02/19/21 09:47 PM	Unknown
135	I1021921A	CCV-6339745	02/19/21 09:50 PM	QC
136	I1021921A	CCB-6338400	02/19/21 09:54 PM	QC
137	I1021921A	CCVL-6339744	02/19/21 09:58 PM	QC
138	I1021921A	CCV-6339745	02/19/21 10:02 PM	QC
139	I1021921A	CCB-6338400	02/19/21 10:05 PM	QC

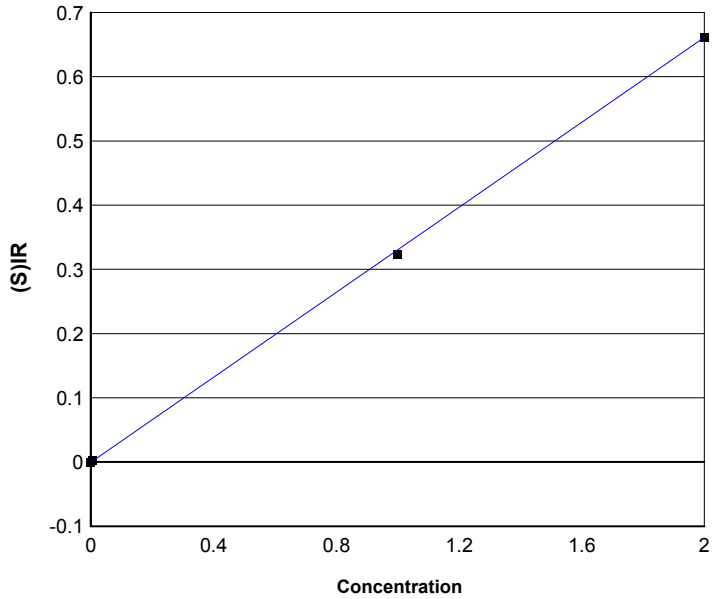
I1021921A

Author: AMH

Published: 2/22/2021 8:07:43AM

Instrument Name: iCAP1 Serial Number: 20094603

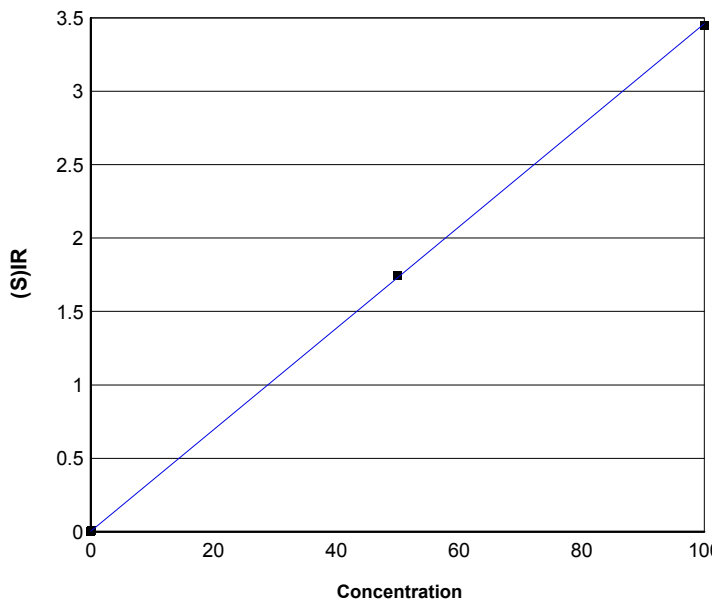
Method Name: ICAP1 New Stds (713)



Element Name:	Ag
Element Wavelength:	Ag 328.068 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:01PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	-0.000081224
A1 (Gain):	0.33058
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

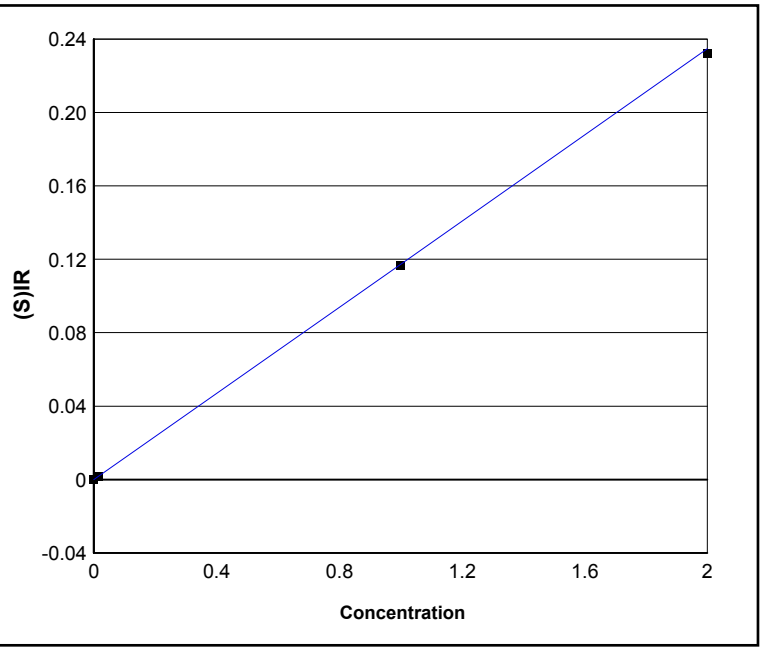
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.00000	0.0000003001	0.0000003001	0.00000	-0.000081125	0.00013780	1
IC-6339744	0.0060000	0.0057386	-0.00026142	-4.3571	0.0018159	0.00014424	1
IC-6339745	1.0000	0.98685	-0.013146	-1.3146	0.32397	0.0010622	1
IC-6326557	2.0000	2.0134	0.013409	0.67046	0.66114	0.00024760	1



Element Name:	Al
Element Wavelength:	Al 308.215 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:01PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0035173
A1 (Gain):	0.034566
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

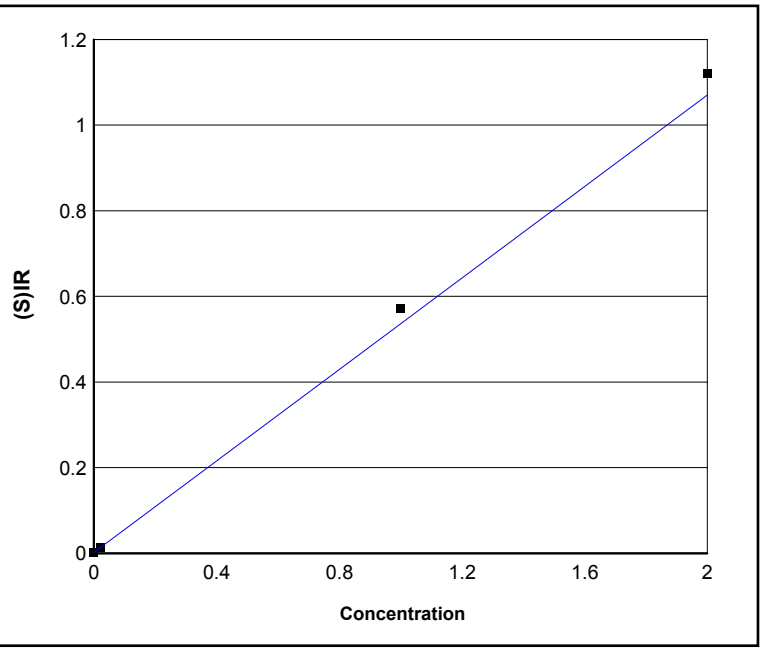
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.00000	0.0000005131	-0.0000005131	0.00000	0.0035173	0.00021920	1
IC-6339744	0.20000	0.19981	-0.00018889	-0.094445	0.010424	0.00026338	1
IC-6339745	50.000	50.351	0.35081	0.70163	1.7439	0.0078978	1
IC-6326557	100.00	99.649	-0.35062	-0.35062	3.4480	0.0069061	1



Element Name:	As
Element Wavelength:	As 189.042 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:01PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.00010506
A1 (Gain):	0.11741
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

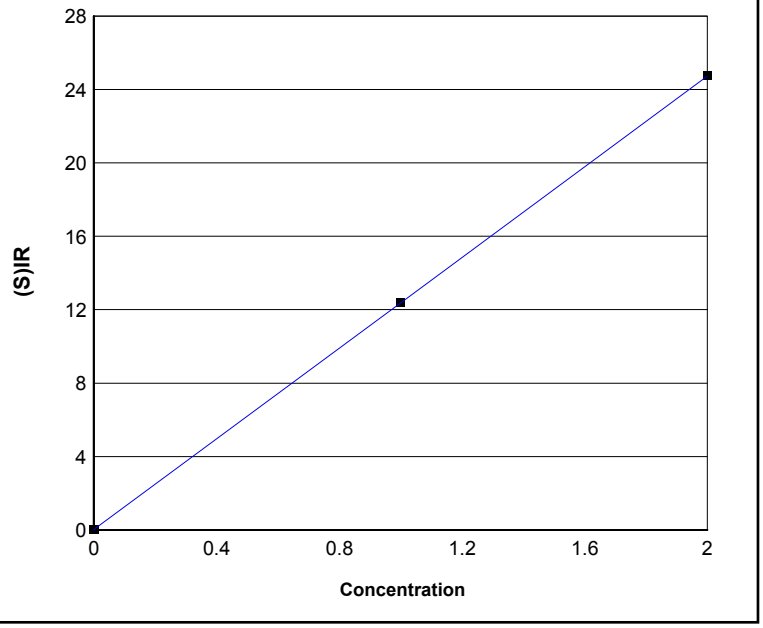
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.00000	0.0000013579	-0.0000013579	0.00000	-0.00010522	0.00010595	1
IC-6339744	0.015000	0.016354	0.0013543	9.0289	0.0018107	0.000064822	1
IC-6339745	1.0000	1.0018	0.0018364	0.18364	0.11643	0.00031340	1
IC-6326557	2.0000	1.9968	-0.0032000	-0.16000	0.23215	0.00067825	1



Element Name:	B
Element Wavelength:	B 208.959 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:01PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	0.0020265
A1 (Gain):	0.53407
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

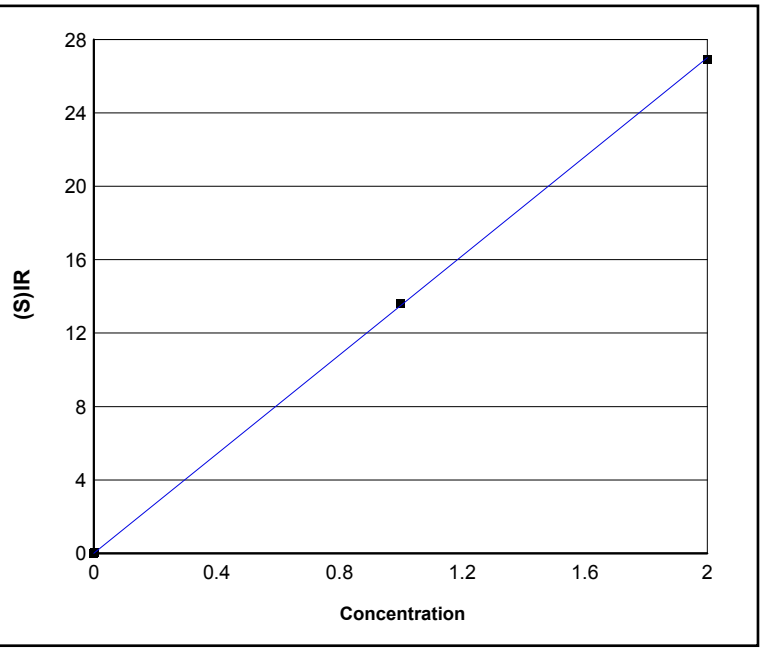
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.00000	0.0000003152	0.0000003152	0.00000	0.0020267	0.000012780	1
IC-6339744	0.020000	0.019531	-0.00046877	-2.3438	0.012744	0.00010645	1
IC-6339745	1.0000	1.0149	0.014897	1.4897	0.57268	0.00049531	1
IC-6326557	2.0000	1.9856	-0.014440	-0.72201	1.1197	0.00092578	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:01PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.019536
A1 (Gain):	12.358
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

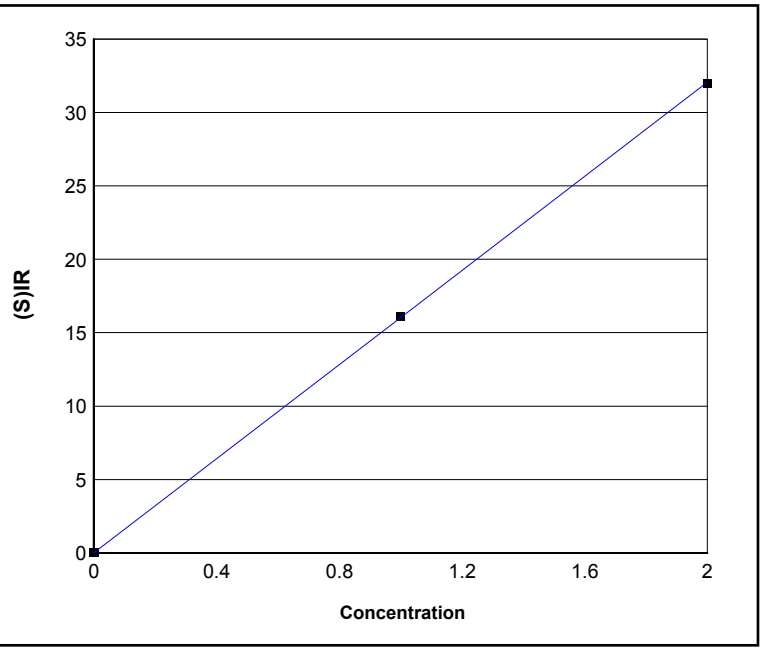
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.00000	0.0000000828	0.0000000828	0.00000	0.019537	0.0045073	1
IC-6339744	0.0020000	0.0019172	-0.000082819	-4.1409	0.043229	0.00029458	1
IC-6339745	1.0000	0.99994	-0.000058384	-0.0058384	12.377	0.014011	1
IC-6326557	2.0000	2.0001	0.00014120	0.0070601	24.737	0.057396	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:01PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.0036216
A1 (Gain):	13.500
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

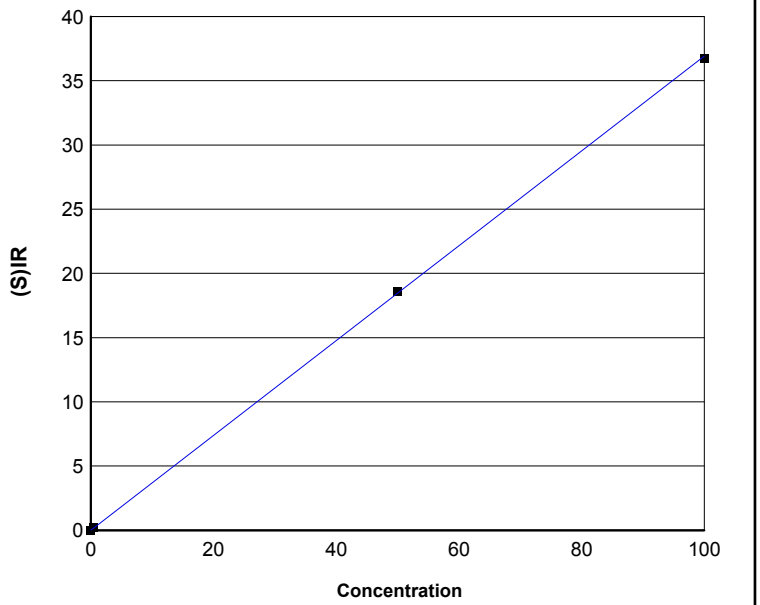
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.00000	0.0000000492	-0.0000000492	0.00000	0.0036209	0.000077259	1
IC-6339744	0.0020000	0.0020407	0.000040730	2.0365	0.031172	0.000084501	1
IC-6339745	1.0000	1.0085	0.0085215	0.85215	13.619	0.069716	1
IC-6326557	2.0000	1.9914	-0.0085622	-0.42811	26.889	0.33402	1



Element Name:	Be
Element Wavelength:	Be 313.042 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:01PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00036225
A1 (Gain):	16.037
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

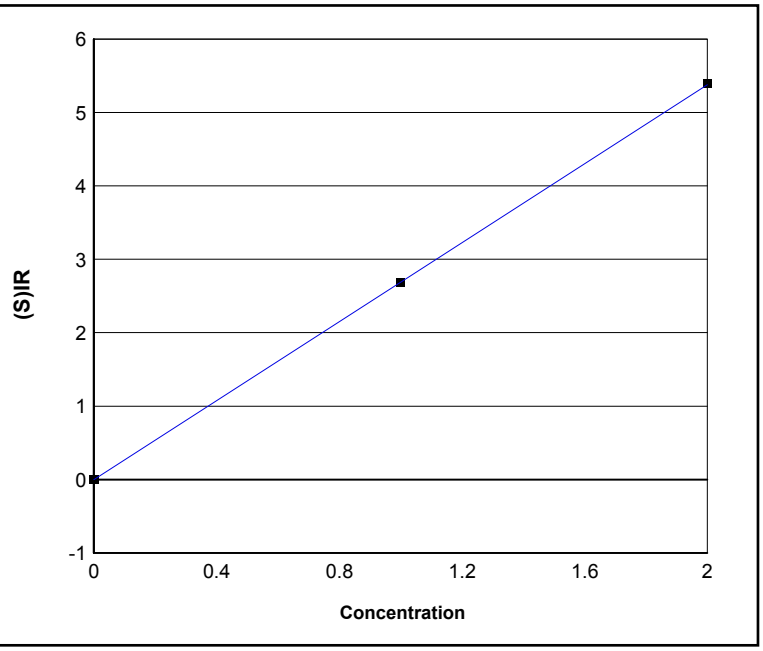
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.00000	0.0000000218	-0.0000000218	0.00000	0.00036191	0.00090688	1
IC-6339744	0.0020000	0.0020152	0.000015248	0.76238	0.032641	0.00026985	1
IC-6339745	1.0000	1.0065	0.0065220	0.65220	16.134	0.042086	1
IC-6326557	2.0000	1.9935	-0.0065373	-0.32686	31.953	0.026124	1



Element Name:	Ca
Element Wavelength:	Ca 317.933 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:01PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.018888
A1 (Gain):	0.36899
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

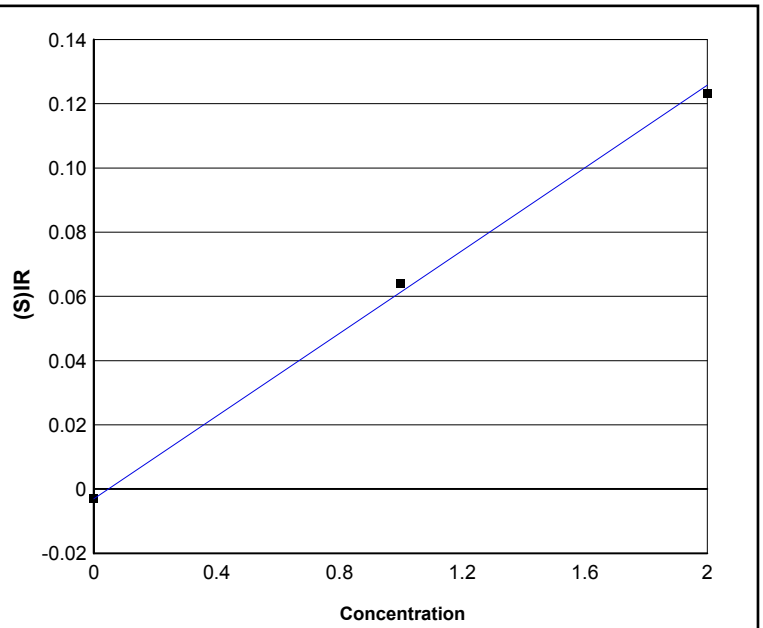
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.00000	-0.000024329	-0.000024329	0.00000	0.018879	0.00021045	1
IC-6339744	0.50000	0.52217	0.022174	4.4348	0.21156	0.00077447	1
IC-6339745	50.000	50.453	0.45324	0.90647	18.636	0.069740	1
IC-6326557	100.00	99.525	-0.47541	-0.47541	36.743	0.039055	1



Element Name:	Cd
Element Wavelength:	Cd 228.802 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:01PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.00033983
A1 (Gain):	2.6890
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

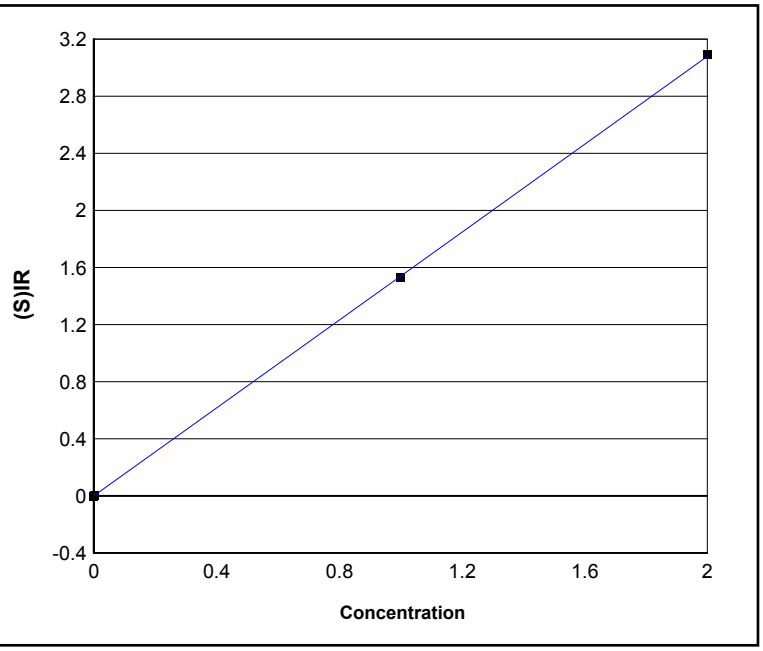
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.00000	0.0000001687	0.0000001687	0.00000	-0.00033938	0.000068107	1
IC-6339744	0.0020000	0.0018316	-0.00016839	-8.4196	0.0046518	0.00035328	1
IC-6339745	1.0000	0.99956	-0.00044018	-0.044018	2.6919	0.0020511	1
IC-6326557	2.0000	2.0006	0.00061037	0.030518	5.3881	0.0021931	1



Element Name:	Ce
Element Wavelength:	Ce 404.076 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:01PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	0.9996
A0 (Offset):	-0.003060
A1 (Gain):	0.06442
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

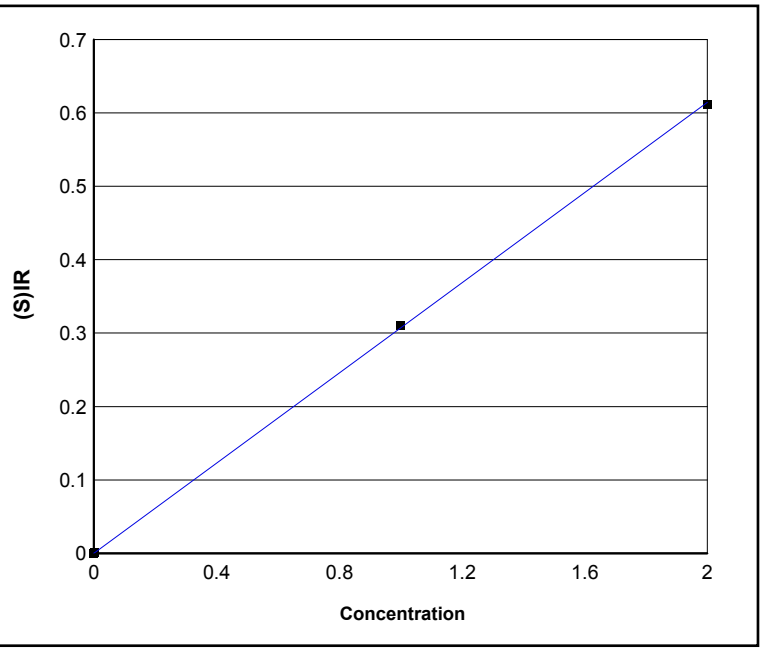
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.0000	-0.00002075	-0.00002075	0.0000	-0.003061	0.0002527	1
IC-6339745	1.000	1.041	0.04149	4.149	0.06404	0.00008651	1
IC-6326557	2.000	1.959	-0.04149	-2.075	0.1231	0.001312	1



Element Name:	Co
Element Wavelength:	Co 228.616 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:01PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.00066578
A1 (Gain):	1.5404
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

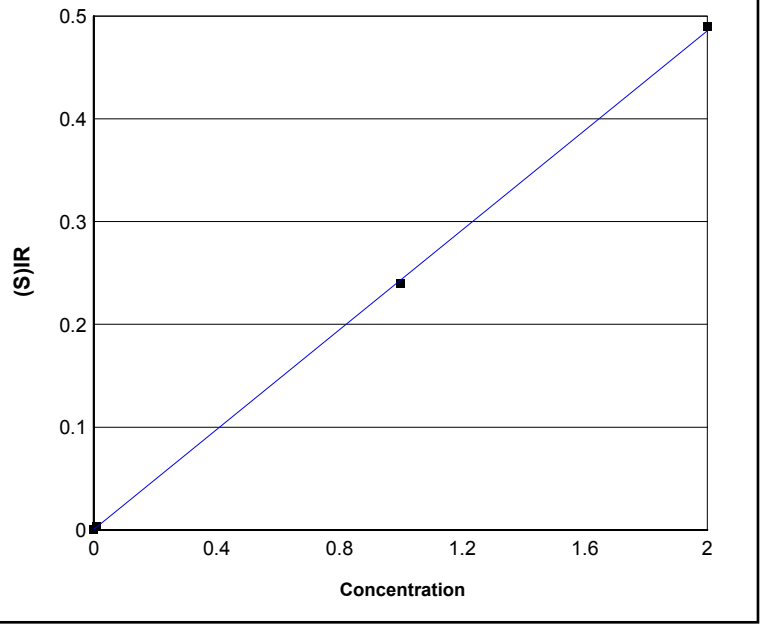
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.00000	0.0000003281	0.0000003281	0.00000	-0.00066528	0.0000072393	1
IC-6339744	0.0040000	0.0036850	-0.00031504	-7.8759	0.0050088	0.00034343	1
IC-6339745	1.0000	0.99316	-0.0068396	-0.68396	1.5303	0.0030320	1
IC-6326557	2.0000	2.0072	0.0071544	0.35772	3.0933	0.0049850	1



Element Name:	Cr
Element Wavelength:	Cr 267.716 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:01PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00022490
A1 (Gain):	0.30704
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

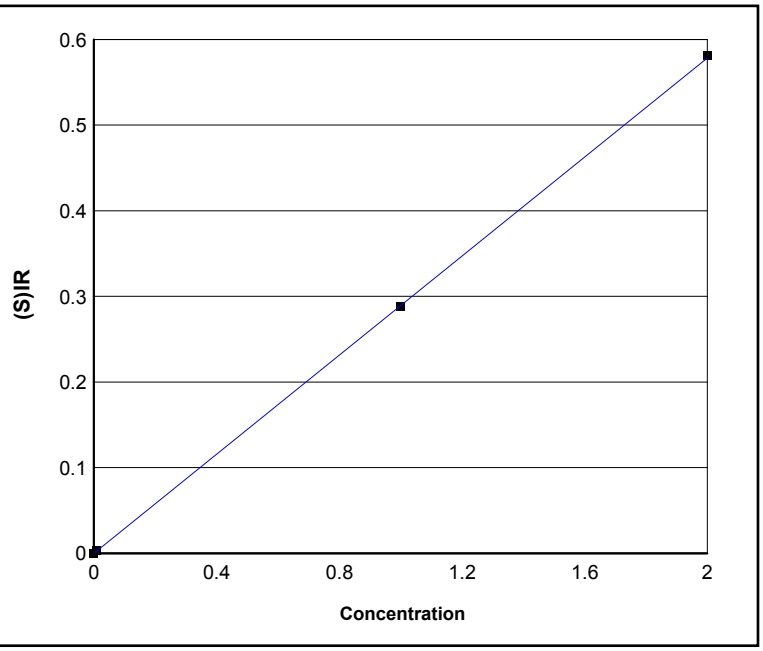
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.00000	0.0000000261	0.0000000261	0.00000	0.00022491	0.000023655	1
IC-6339744	0.0040000	0.0039544	-0.000045611	-1.1403	0.0014393	0.000048823	1
IC-6339745	1.0000	1.0097	0.0097122	0.97122	0.31030	0.00026729	1
IC-6326557	2.0000	1.9903	-0.0096666	-0.48333	0.61144	0.00021249	1



Element Name:	Cu
Element Wavelength:	Cu 324.754 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:02PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	0.00077471
A1 (Gain):	0.24250
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

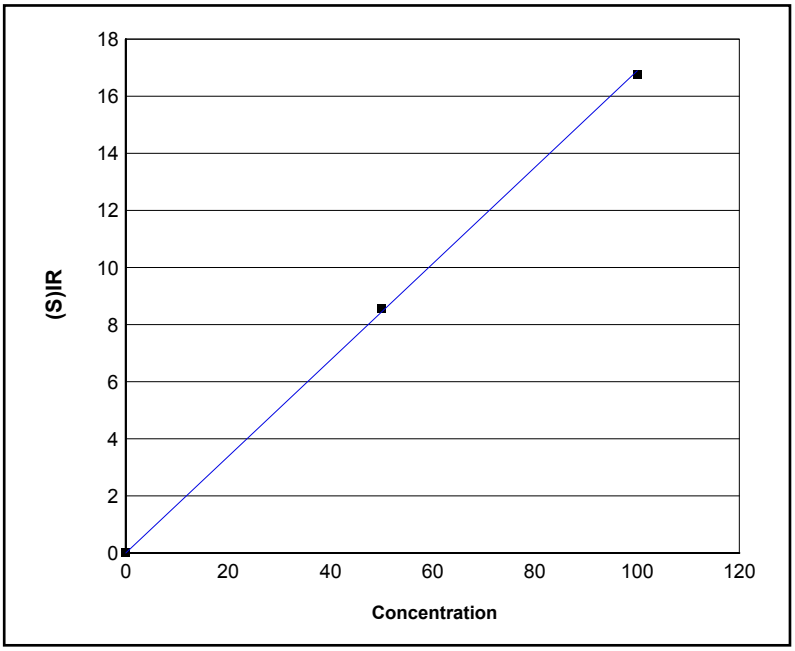
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.00000	0.0000009842	0.0000009842	0.00000	0.00077495	0.000026168	1
IC-6339744	0.010000	0.0090877	-0.00091225	-9.1225	0.0029785	0.00021792	1
IC-6339745	1.0000	0.98469	-0.015306	-1.5306	0.23956	0.00037095	1
IC-6326557	2.0000	2.0162	0.016218	0.81091	0.48971	0.000051600	1



Element Name:	Cu
Element Wavelength:	Cu 327.396 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:02PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.0000021038
A1 (Gain):	0.28923
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

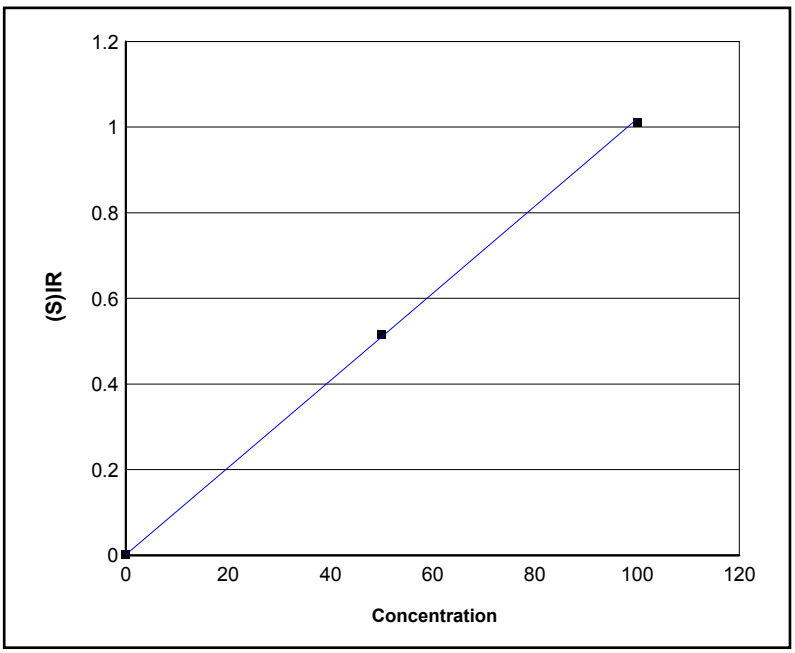
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.00000	0.0000010086	0.0000010086	0.00000	0.0000023955	0.00033309	1
IC-6339744	0.010000	0.0090149	-0.00098509	-9.8509	0.0026106	0.000071425	1
IC-6339745	1.0000	0.99431	-0.0056925	-0.56925	0.28770	0.0000047952	1
IC-6326557	2.0000	2.0067	0.0066776	0.33388	0.58062	0.0025230	1



Element Name:	Fe
Element Wavelength:	Fe 259.940 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:02PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	0.0026681
A1 (Gain):	0.16877
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

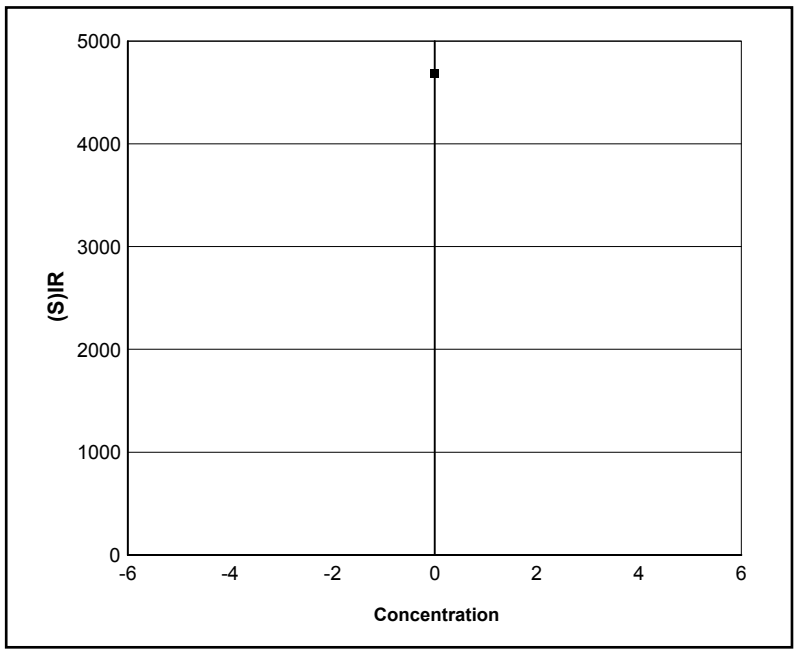
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.00000	0.0000018367	-0.0000018367	0.00000	0.0026678	0.00083411	1
IC-6339744	0.050000	0.051460	0.0014598	2.9196	0.011353	0.00071030	1
IC-6339745	50.025	50.781	0.75563	1.5105	8.5728	0.0074702	1
IC-6326557	100.05	99.293	-0.75709	-0.75671	16.760	0.10797	1



Element Name:	Fe
Element Wavelength:	Fe 271.441 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:02PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	0.99941
A0 (Offset):	0.0012857
A1 (Gain):	0.010176
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

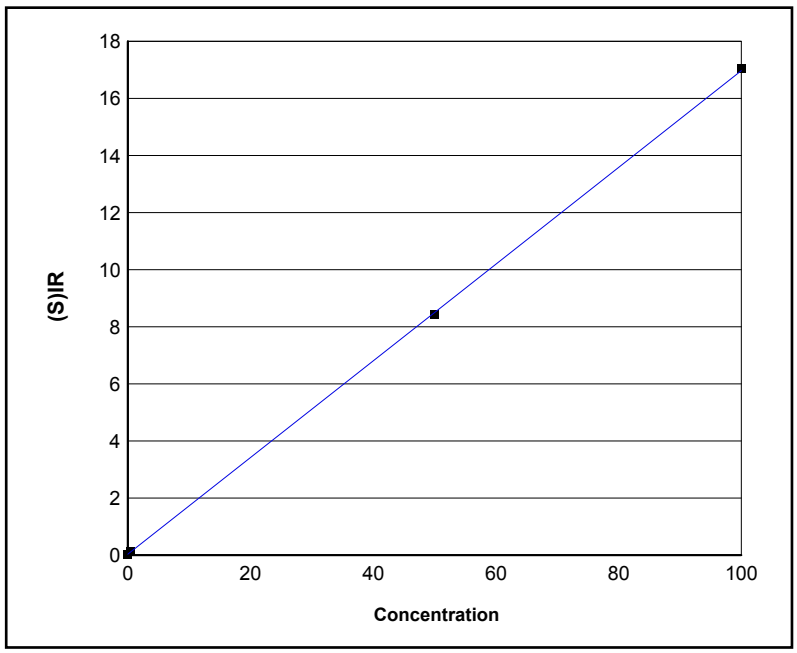
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.00000	-0.000090336	-0.000090336	0.00000	0.0012847	0.00055021	1
IC-6339744	0.050000	0.14006	0.090063	180.13	0.0027109	0.0015949	1
IC-6339745	50.025	50.663	0.63802	1.2754	0.51681	0.0023328	1
IC-6326557	100.05	99.322	-0.72808	-0.72772	1.0119	0.0045823	1



Element Name:	In
Element Wavelength:	In 230.606 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:10:53PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

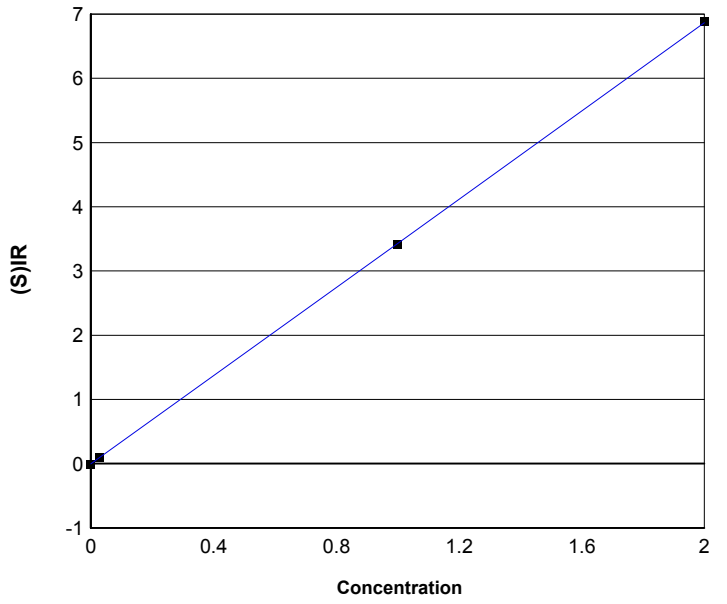
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.0000			0.0000	4,688	7.716	1



Element Name:	K
Element Wavelength:	K 766.490 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:02PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.032377
A1 (Gain):	0.16940
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

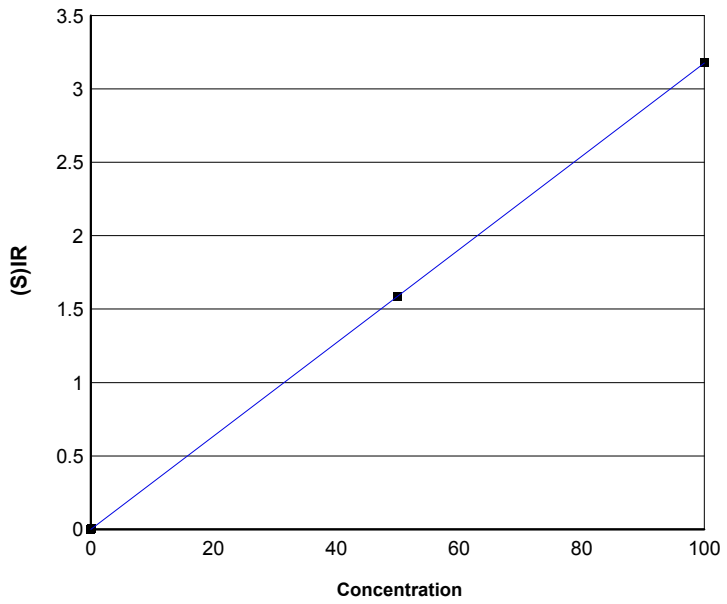
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.00000	0.000041658	0.000041658	0.00000	0.032384	0.00015339	1
IC-6339744	0.50000	0.46033	-0.039666	-7.9331	0.11036	0.0037952	1
IC-6339745	50.000	49.562	-0.43810	-0.87620	8.4283	0.025159	1
IC-6326557	100.00	100.48	0.47776	0.47776	17.054	0.0078507	1



Element Name:	Li
Element Wavelength:	Li 670.784 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:02PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.0029165
A1 (Gain):	3.4335
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

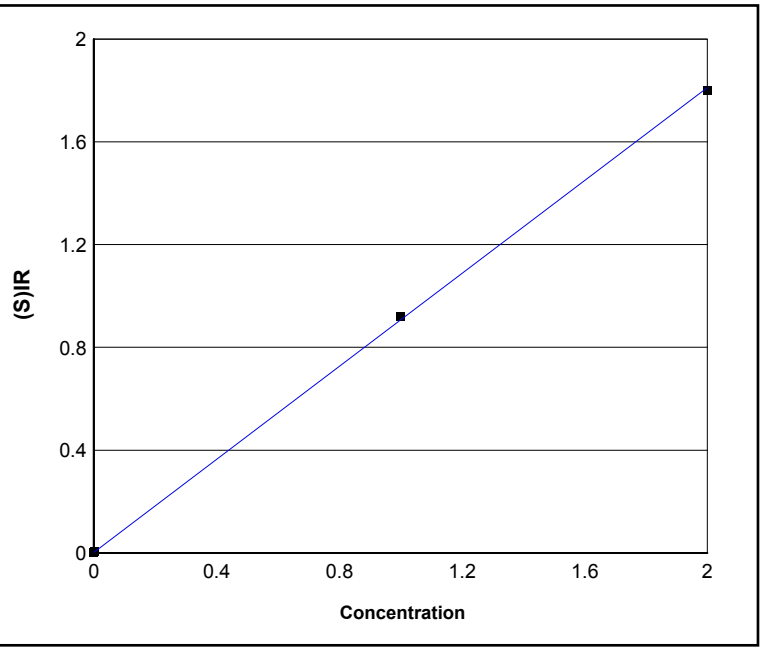
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.00000	0.0000011712	0.0000011712	0.00000	-0.0029124	0.0061409	1
IC-6339744	0.030000	0.028896	-0.0011039	-3.6796	0.096299	0.0021707	1
IC-6339745	1.0000	0.99441	-0.0055898	-0.55898	3.4114	0.0038353	1
IC-6326557	2.0000	2.0067	0.0066937	0.33469	6.8871	0.042627	1



Element Name:	Mg
Element Wavelength:	Mg 279.079 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:02PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00014826
A1 (Gain):	0.031751
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

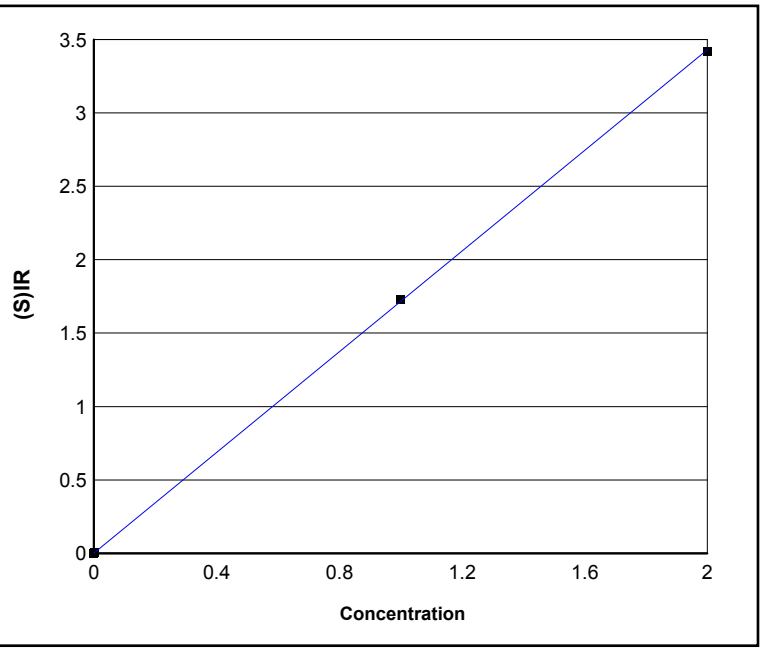
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.00000	0.0000057450	-0.0000057450	0.00000	0.00014808	0.000019991	1
IC-6339744	0.20000	0.20592	0.0059217	2.9609	0.0066861	0.000023852	1
IC-6339745	50.000	49.918	-0.082434	-0.16487	1.5850	0.0012022	1
IC-6326557	100.00	100.08	0.076512	0.076512	3.1774	0.0035828	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:02PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	0.0020298
A1 (Gain):	0.90475
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

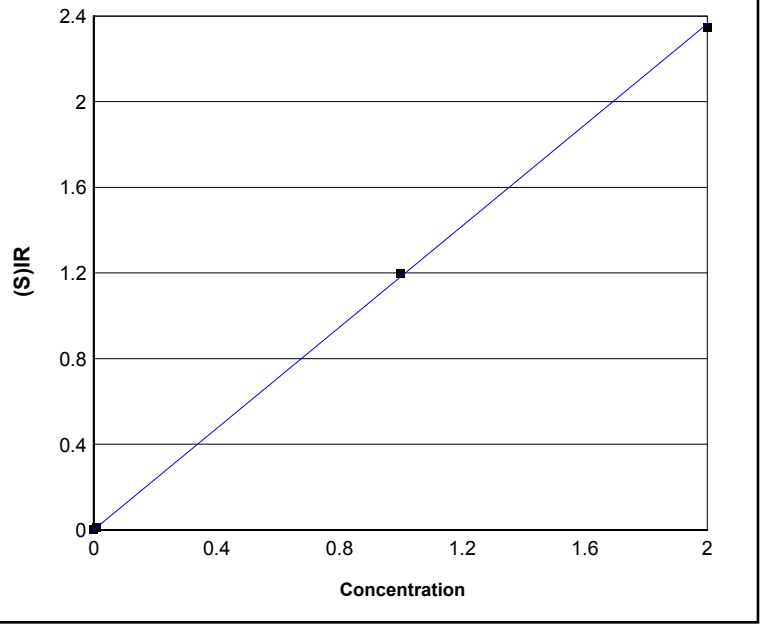
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.00000	0.0000003893	0.0000003893	0.00000	0.0020301	0.00069234	1
IC-6339744	0.0030000	0.0025904	-0.00040964	-13.655	0.0043746	0.00035394	1
IC-6339745	1.0000	1.0132	0.013164	1.3164	0.91910	0.0031741	1
IC-6326557	2.0000	1.9872	-0.012755	-0.63774	1.8008	0.012138	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:02PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.0013141
A1 (Gain):	1.7144
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

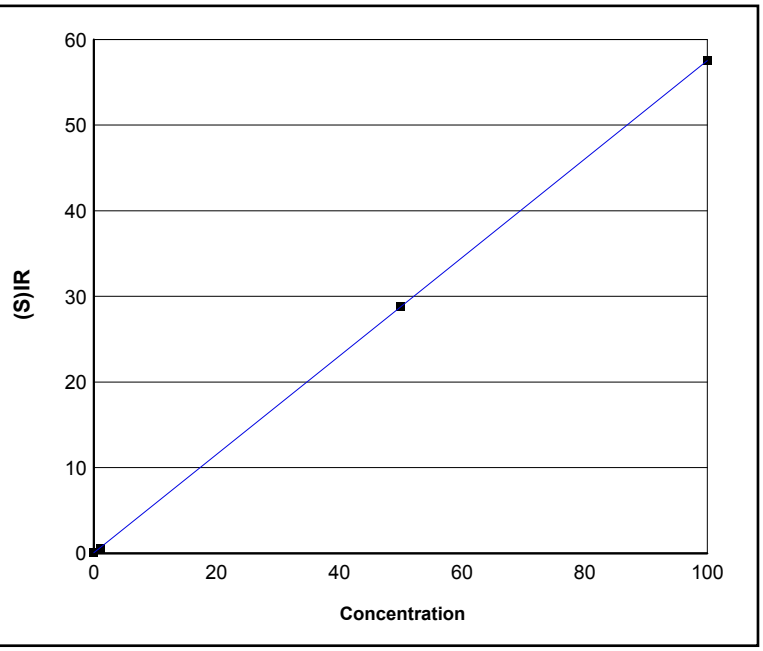
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.00000	0.0000001692	-0.0000001692	0.00000	0.0013138	0.0000025881	1
IC-6339744	0.0030000	0.0031574	0.00015739	5.2465	0.0067288	0.000084739	1
IC-6339745	1.0000	1.0080	0.0080378	0.80378	1.7298	0.0027303	1
IC-6326557	2.0000	1.9918	-0.0081952	-0.40976	3.4166	0.0067787	1



Element Name:	Mo
Element Wavelength:	Mo 202.030 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:02PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	0.0015932
A1 (Gain):	1.1816
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

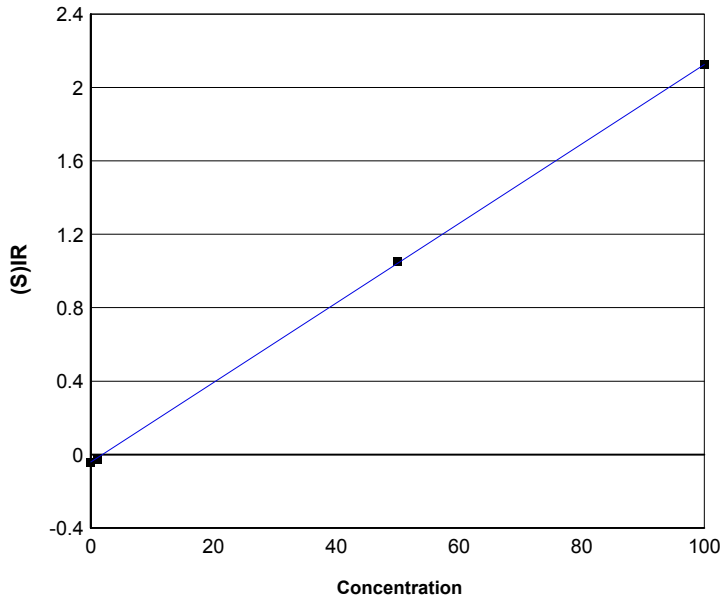
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.00000	0.0000000963	0.0000000963	0.00000	0.0015933	0.000036940	1
IC-6339744	0.010000	0.0098355	-0.00016453	-1.6453	0.013215	0.0000068058	1
IC-6339745	1.0000	1.0135	0.013482	1.3482	1.1991	0.0027335	1
IC-6326557	2.0000	1.9867	-0.013317	-0.66586	2.3491	0.0088236	1



Element Name:	Na
Element Wavelength:	Na 589.592 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:02PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.053495
A1 (Gain):	0.57468
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

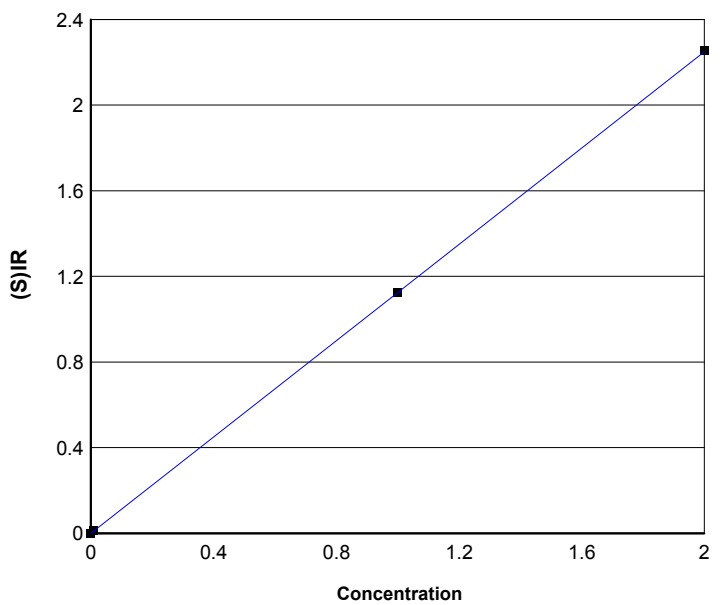
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.00000	0.000023521	0.000023521	0.00000	0.053508	0.0065889	1
IC-6339744	1.0000	0.97610	-0.023904	-2.3904	0.61444	0.0074975	1
IC-6339745	50.000	50.014	0.014459	0.028919	28.796	0.036746	1
IC-6326557	100.00	100.01	0.0094448	0.0094448	57.527	0.23503	1



Element Name:	Na
Element Wavelength:	Na 818.326 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:02PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	0.99943
A0 (Offset):	-0.041345
A1 (Gain):	0.021662
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

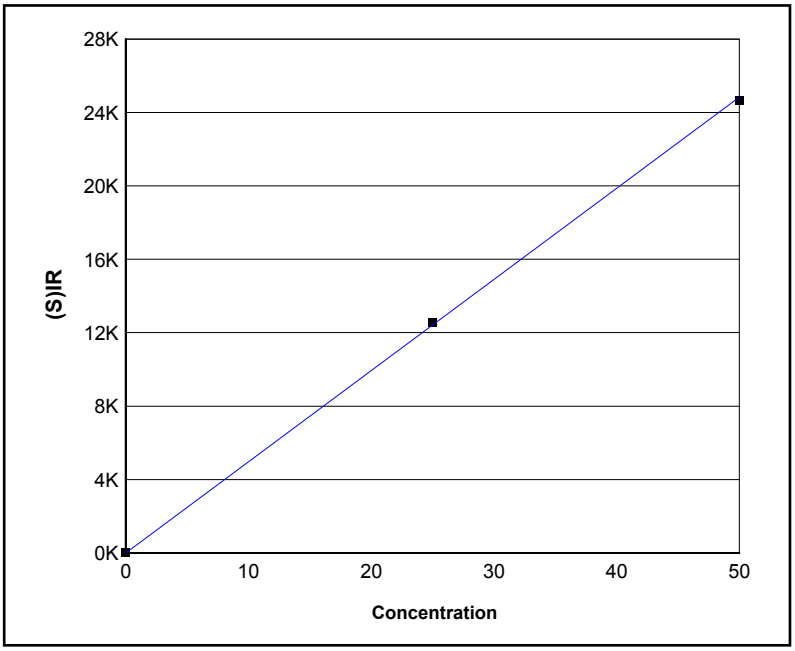
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.00000	0.00040199	0.00040199	0.00000	-0.041336	0.0028989	1
IC-6339744	1.0000	0.58948	-0.41052	-41.052	-0.028576	0.0042587	1
IC-6339745	50.000	50.443	0.44258	0.88517	1.0513	0.0031653	1
IC-6326557	100.00	99.968	-0.032060	-0.032060	2.1241	0.011964	1



Element Name:	Ni
Element Wavelength:	Ni 231.604 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:02PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00054386
A1 (Gain):	1.1243
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

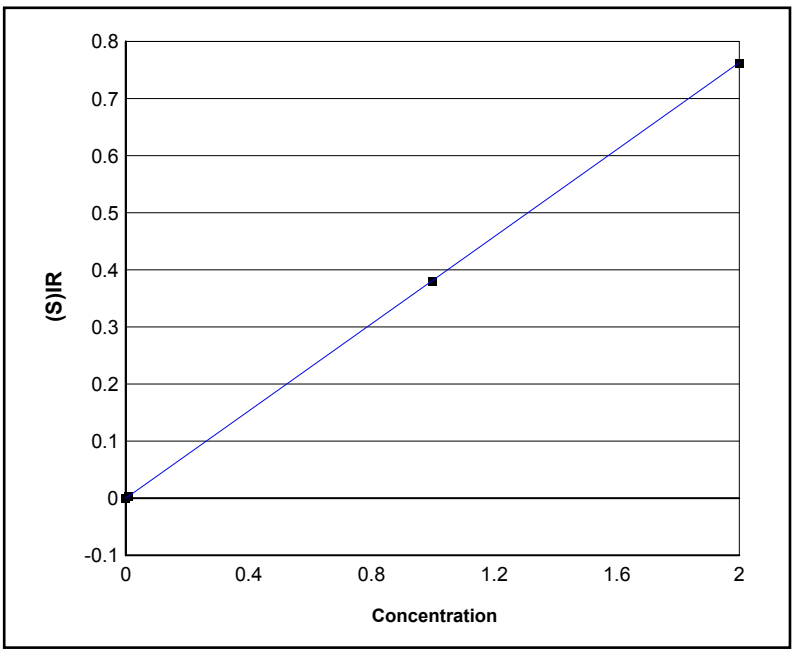
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.00000	0.0000002844	0.0000002844	0.00000	0.00054418	0.000081451	1
IC-6339744	0.010000	0.0097231	-0.00027695	-2.7695	0.011476	0.000083809	1
IC-6339745	1.0000	0.99822	-0.0017751	-0.17751	1.1234	0.0013507	1
IC-6326557	2.0000	2.0021	0.0020520	0.10260	2.2525	0.0048974	1



Element Name:	P
Element Wavelength:	P 213.618 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:02PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	1.0000
A0 (Offset):	3.996
A1 (Gain):	496.6
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

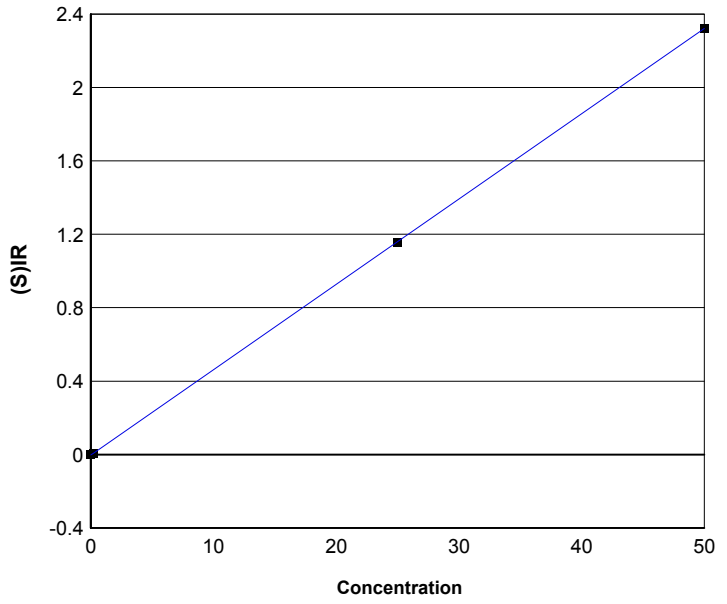
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.0000	-0.0001567	-0.0001567	0.0000	3.919	1.025	1
IC-6339745	25.00	25.31	0.3135	1.254	12,570	49.93	1
IC-6326557	50.00	49.69	-0.3135	-0.6269	24,680	58.93	1



Element Name:	Pb
Element Wavelength:	Pb 220.353 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:02PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	-0.000036839
A1 (Gain):	0.38152
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

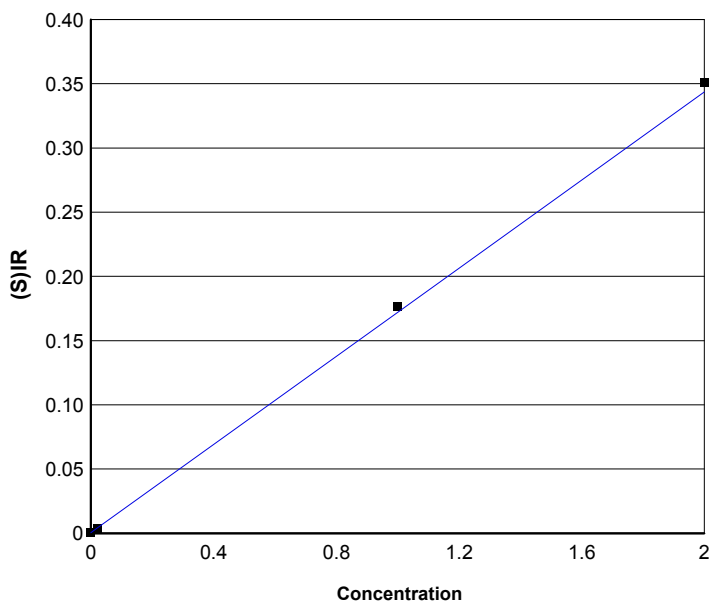
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.00000	0.0000012530	0.0000012530	0.00000	-0.000036361	0.00027140	1
IC-6339744	0.010000	0.0087448	-0.0012552	-12.552	0.0032950	0.0000060830	1
IC-6339745	1.0000	0.99917	-0.00083350	-0.083350	0.38018	0.00069422	1
IC-6326557	2.0000	2.0021	0.0020904	0.10452	0.76183	0.0016137	1



Element Name:	S
Element Wavelength:	S 182.034 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:02PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	1.0000
A0 (Offset):	-0.002018
A1 (Gain):	0.04648
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

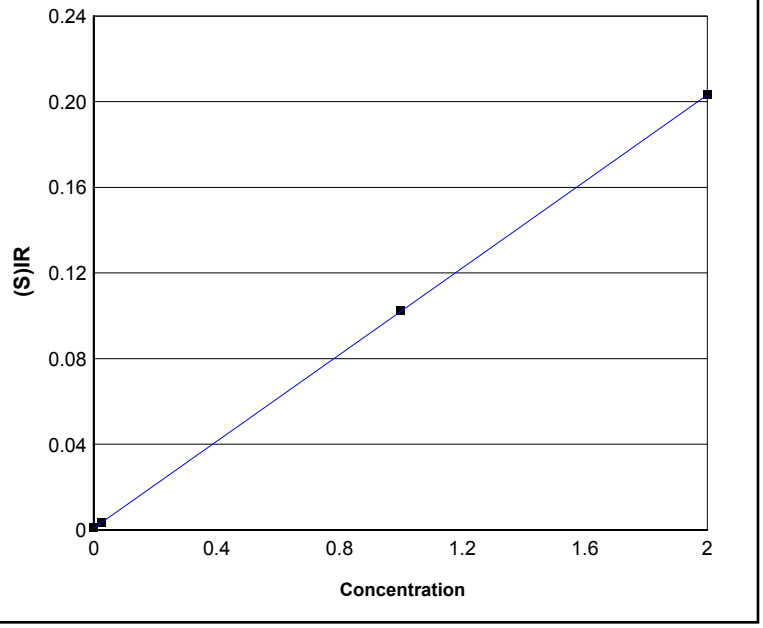
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.0000	0.000008643	0.000008643	0.0000	-0.002018	0.00002539	1
IC-6339744	0.2000	0.1915	-0.008533	-4.267	0.006880	0.00007409	1
IC-6339745	25.00	24.96	-0.03584	-0.1434	1.158	0.003320	1
IC-6326557	50.00	50.04	0.04438	0.08876	2.324	0.002383	1



Element Name:	Sb
Element Wavelength:	Sb 206.833 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:02PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00042513
A1 (Gain):	0.17165
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

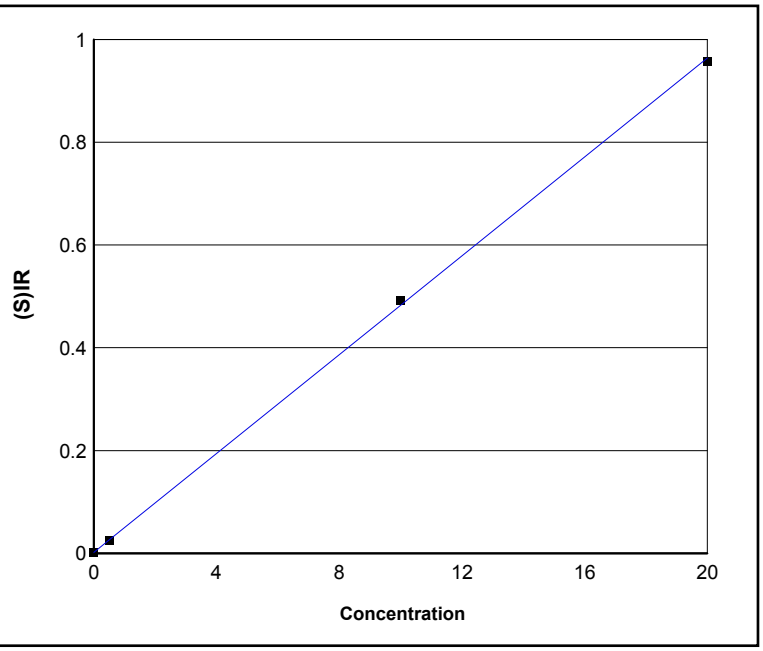
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.00000	0.0000001822	0.0000001822	0.00000	0.00042516	0.00011617	1
IC-6339744	0.020000	0.019784	-0.00021568	-1.0784	0.0038357	0.000026764	1
IC-6339745	1.0000	1.0031	0.0031346	0.31346	0.17630	0.00050246	1
IC-6326557	2.0000	1.9971	-0.0029225	-0.14613	0.35059	0.00056422	1



Element Name:	Se
Element Wavelength:	Se 196.090 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:02PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00091225
A1 (Gain):	0.10116
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

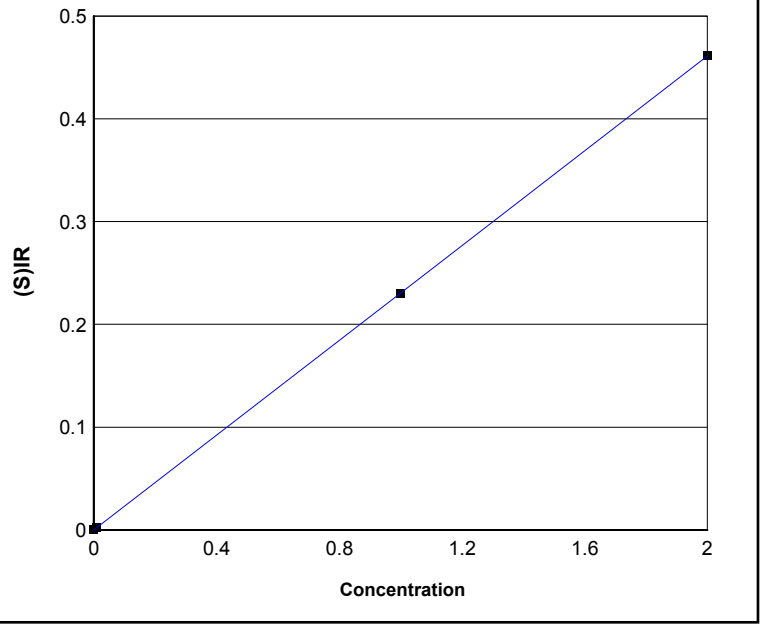
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.00000	0.0000011282	-0.0000011282	0.00000	0.00091213	0.000046482	1
IC-6339744	0.025000	0.026110	0.0011096	4.4385	0.0035544	0.000053533	1
IC-6339745	1.0000	1.0026	0.0025935	0.25935	0.10253	0.00067075	1
IC-6326557	2.0000	1.9963	-0.0037013	-0.18506	0.20325	0.00046816	1



Element Name:	Si
Element Wavelength:	Si 288.158 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:02PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	0.99989
A0 (Offset):	0.0016962
A1 (Gain):	0.048120
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

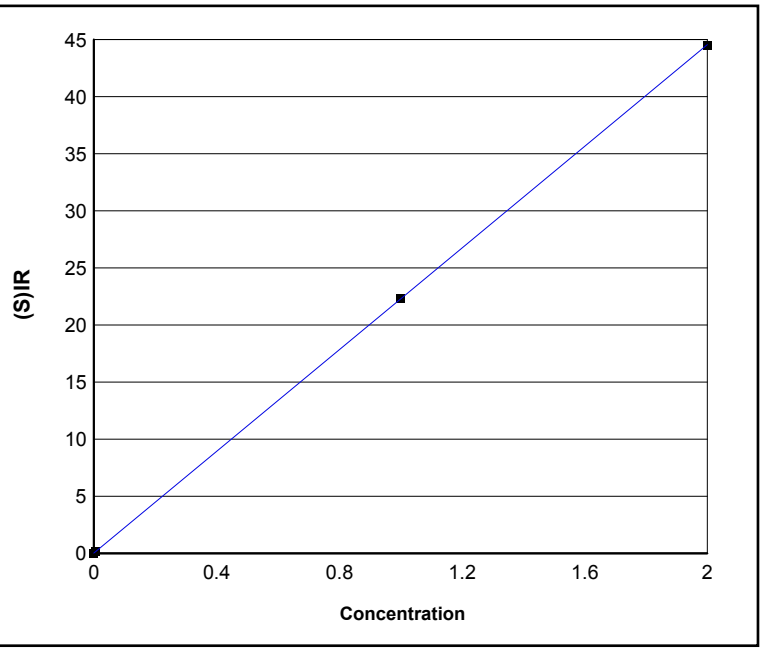
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.00000	0.000026518	0.000026518	0.00000	0.0016975	0.00042715	1
IC-6339744	0.50000	0.46799	-0.032008	-6.4016	0.024216	0.00080587	1
IC-6339745	10.000	10.188	0.18760	1.8760	0.49192	0.0012142	1
IC-6326557	20.000	19.844	-0.15559	-0.77795	0.95660	0.0052706	1



Element Name:	Sn
Element Wavelength:	Sn 189.989 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:02PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00020830
A1 (Gain):	0.23044
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

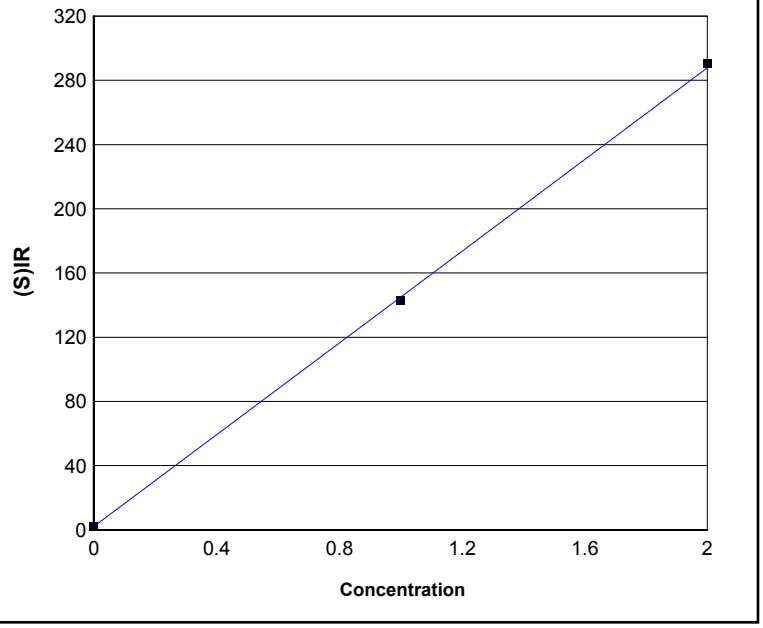
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.00000	0.0000003515	0.0000003515	0.00000	0.00020838	0.000050753	1
IC-6339744	0.010000	0.0096523	-0.00034769	-3.4769	0.0024326	0.000069589	1
IC-6339745	1.0000	0.99890	-0.0011008	-0.11008	0.23039	0.00040954	1
IC-6326557	2.0000	2.0014	0.0014484	0.072422	0.46142	0.00045449	1



Element Name:	Sr
Element Wavelength:	Sr 407.771 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:02PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.010360
A1 (Gain):	22.271
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

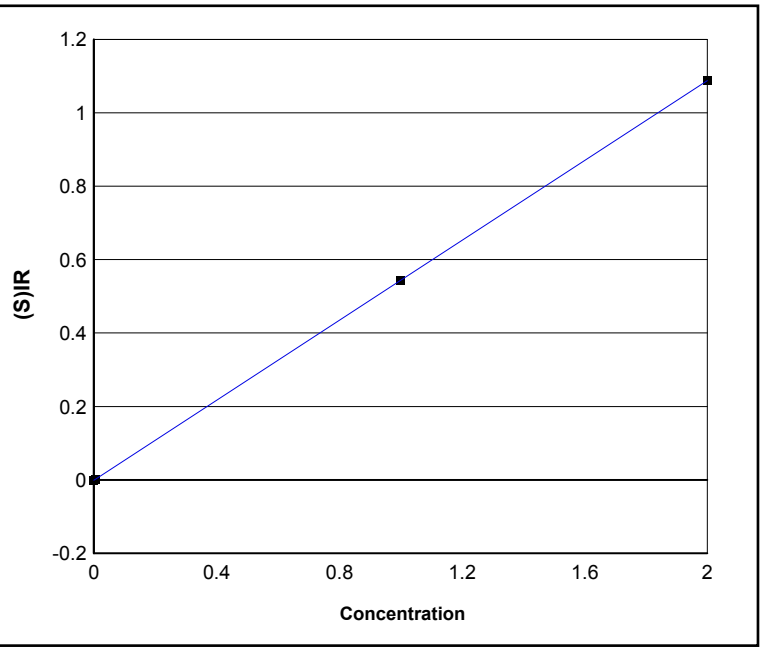
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.00000	0.0000001107	0.0000001107	0.00000	0.010362	0.00029465	1
IC-6339744	0.0050000	0.0048812	-0.00011885	-2.3770	0.11907	0.0013221	1
IC-6339745	1.0000	1.0031	0.0031478	0.31478	22.351	0.073506	1
IC-6326557	2.0000	1.9970	-0.0030290	-0.15145	44.485	0.097341	1



Element Name:	Th
Element Wavelength:	Th 283.730 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:02PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	0.9999
A0 (Offset):	2.242
A1 (Gain):	142.8
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

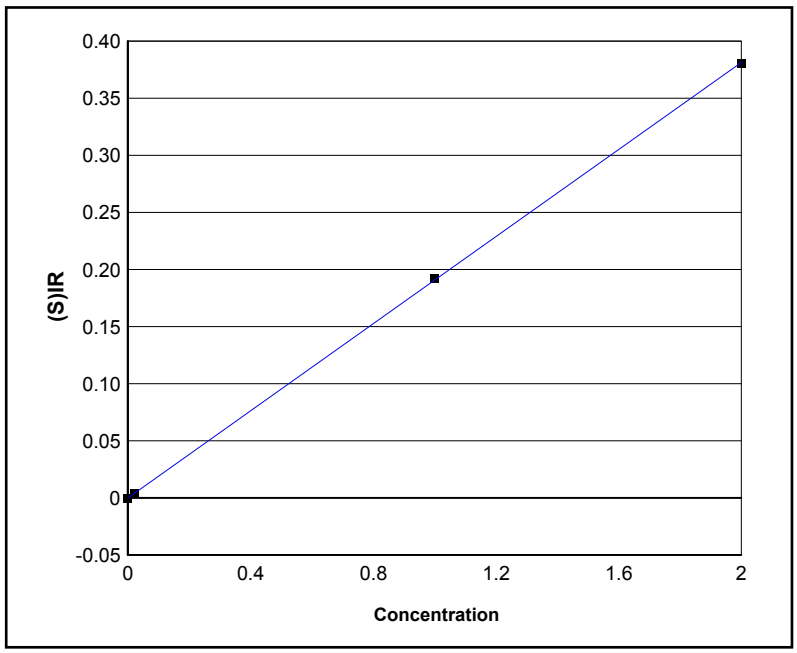
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.0000	0.000008406	0.000008406	0.0000	2.243	4.072	1
IC-6339745	1.000	0.9832	-0.01681	-1.681	142.6	2.689	1
IC-6326557	2.000	2.017	0.01681	0.8406	290.2	0.8912	1



Element Name:	Ti
Element Wavelength:	Ti 334.904 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:02PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.00080818
A1 (Gain):	0.54428
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

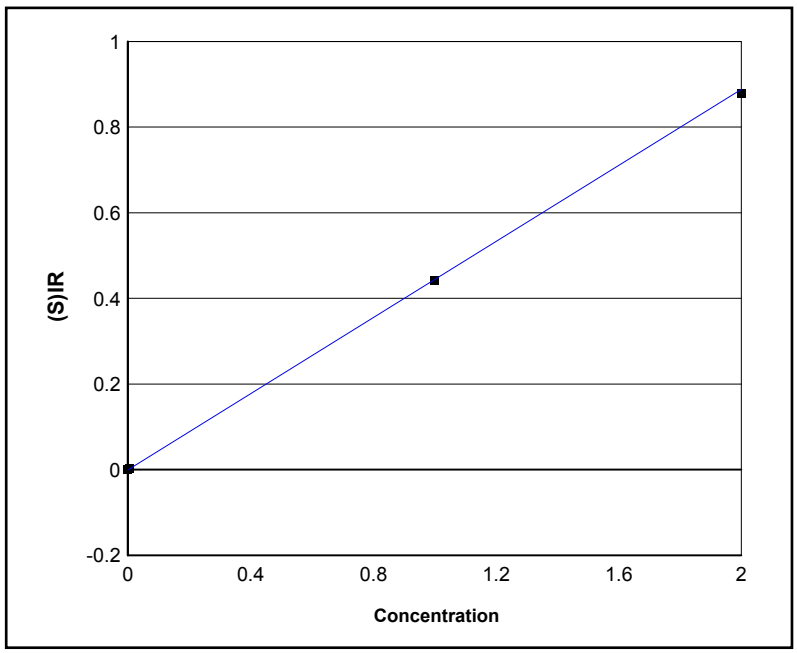
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.00000	0.0000003026	0.0000003026	0.00000	-0.00080801	0.00014424	1
IC-6339744	0.0050000	0.0046996	-0.00030039	-6.0077	0.0017512	0.00012785	1
IC-6339745	1.0000	0.99883	-0.0011698	-0.11698	0.54302	0.00024511	1
IC-6326557	2.0000	2.0015	0.0014702	0.073510	1.0889	0.0027151	1



Element Name:	Tl
Element Wavelength:	Tl 190.856 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:02PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00010336
A1 (Gain):	0.19074
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

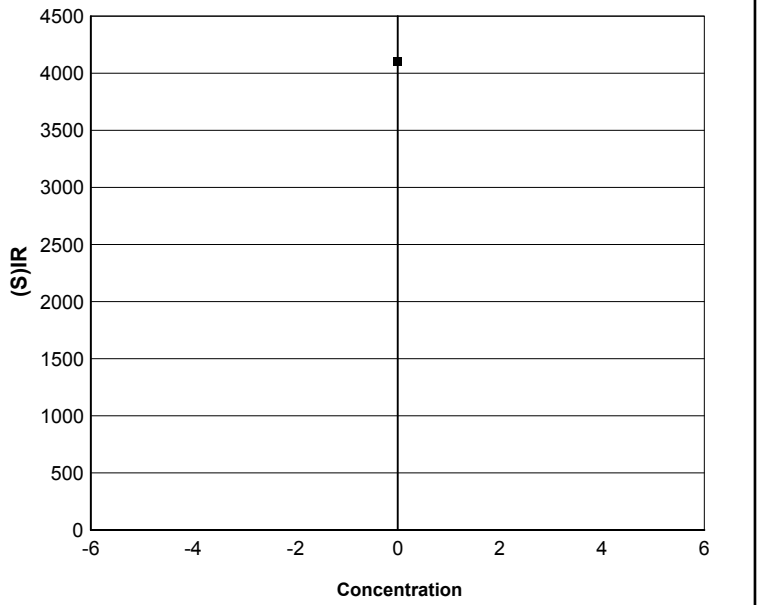
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.00000	0.0000002069	0.0000002069	0.00000	-0.00010332	0.00014371	1
IC-6339744	0.020000	0.019719	-0.00028148	-1.4074	0.0036587	0.000094319	1
IC-6339745	1.0000	1.0072	0.0071721	0.71721	0.19218	0.00063712	1
IC-6326557	2.0000	1.9931	-0.0068908	-0.34454	0.38042	0.000027111	1



Element Name:	V
Element Wavelength:	V 292.402 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:02PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.00017143
A1 (Gain):	0.44420
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

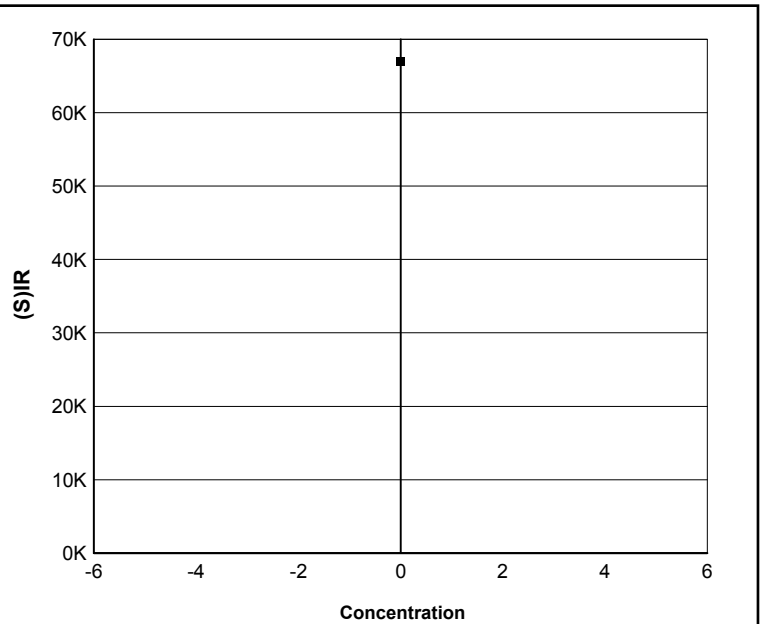
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.00000	0.0000002029	0.0000002029	0.00000	-0.00017134	0.000051427	1
IC-6339744	0.0050000	0.0047898	-0.00021016	-4.2033	0.0019100	0.00016012	1
IC-6339745	1.0000	1.0027	0.0026815	0.26815	0.44110	0.00095366	1
IC-6326557	2.0000	1.9975	-0.0024737	-0.12369	0.87889	0.0022060	1



Element Name:	Y
Element Wavelength:	Y 224.306 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:10:53PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

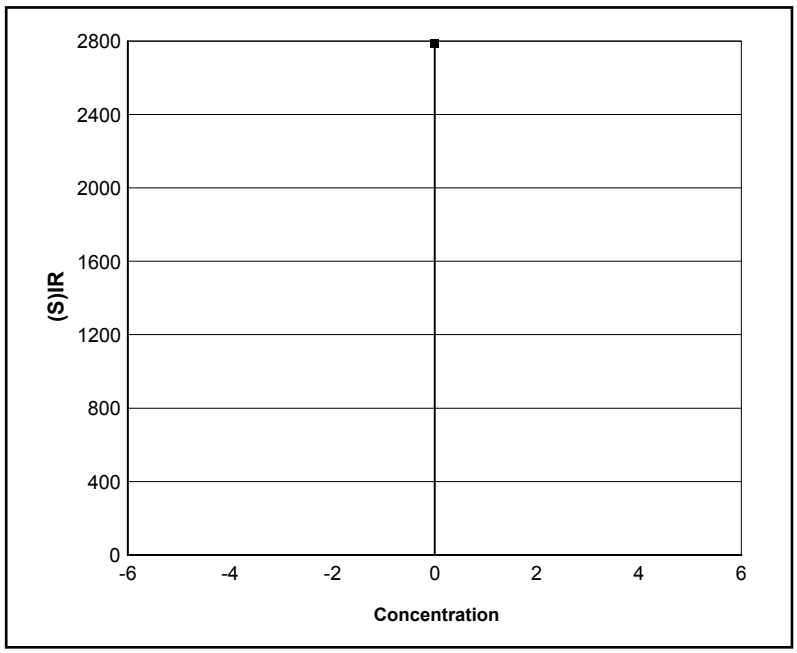
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.0000			0.0000	4,099	9.457	1



Element Name:	Y
Element Wavelength:	Y 360.073 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:10:53PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

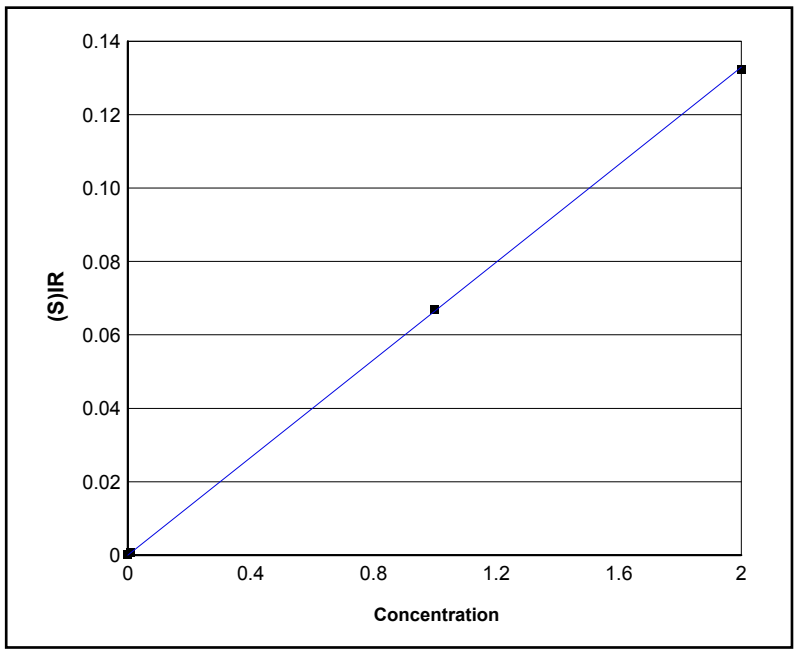
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.0000			0.0000	66,940	332.0	1



Element Name:	Y
Element Wavelength:	Y 377.433 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:10:53PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

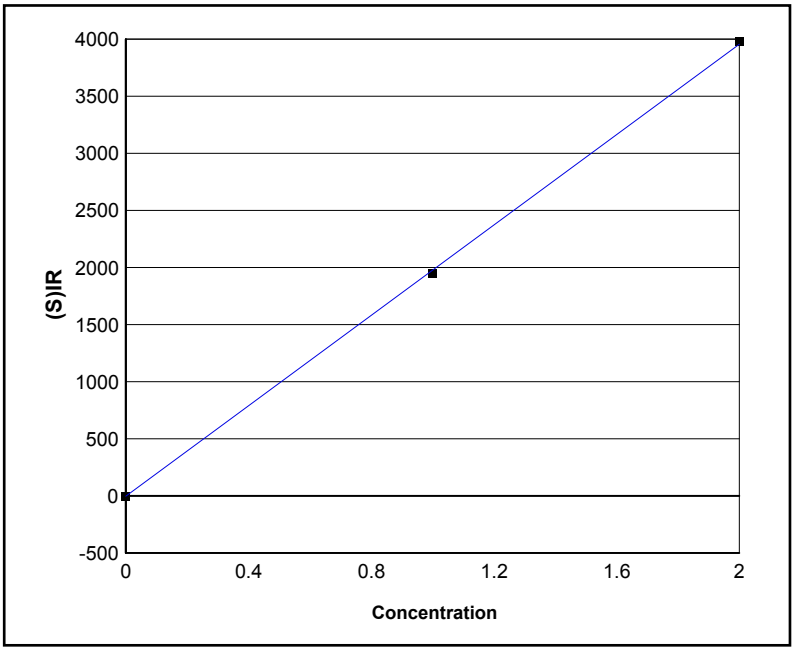
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.0000			0.0000	2,785	9.220	1



Element Name:	Zn
Element Wavelength:	Zn 206.200 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:02PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.000027225
A1 (Gain):	0.066455
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.00000	0.0000003661	0.0000003661	0.00000	0.000027249	0.000012020	1
IC-6339744	0.010000	0.0095901	-0.00040994	-4.0994	0.00066414	0.0000094740	1
IC-6339745	1.0000	1.0084	0.0083571	0.83571	0.066939	0.00015108	1
IC-6326557	2.0000	1.9921	-0.0079468	-0.39734	0.13221	0.00057217	1



Element Name:	Zr
Element Wavelength:	Zr 343.823 nm
Concentration Units:	ppm
Date of Calibration:	2/19/2021 1:22:02PM
Date of Fit:	2/19/2021 2:17:53PM
Type of Fit:	Linear
Correlation:	1.0000
A0 (Offset):	-3.089
A1 (Gain):	1,979
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6338400	0.0000	0.000006160	0.000006160	0.0000	-3.077	3.716	1
IC-6339745	1.000	0.9877	-0.01232	-1.232	1,952	3.690	1
IC-6326557	2.000	2.012	0.01232	0.6160	3,980	5.007	1

Sample Name: ICIS-6338400 Acquired: 2/19/2021 13:07:04 Type: Cal
Method: ICAP1 New Stds (v713) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00008**	**.00352**	**-.00011**	**.00203**	**.01954**	**.00362**	**.00036**
Stddev	.00014	.00022	.00011	.00001	.00451	.00008	.00091
%RSD	169.86	6.2321	100.70	.63057	23.070	2.1337	250.59
#1	.00002	.00336	-.00003	.00204	.02272	.00357	-.00028
#2	-.00018	.00367	-.00018	.00202	.01635	.00368	.00100

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01888**	**-.00034**	**-.0031**	**-.00067**	**.00022**	**.00000**	**.00267**
Stddev	.00021	.00007	.0003	.00001	.00002	.00033	.00083
%RSD	1.1147	20.068	8.256	1.0882	10.518	13905.	31.266
#1	.01903	-.00029	-.0032	-.00067	.00024	-.00023	.00326
#2	.01873	-.00039	-.0029	-.00066	.00021	.00024	.00208

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576-2	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00128**	**.03238**	**-.00291**	**.00015**	**.00203**	**.00131**	**.00159**
Stddev	.00055	.00015	.00614	.00002	.00069	.00000	.00004
%RSD	42.826	.47366	210.85	13.500	34.103	.19700	2.3185
#1	.00167	.03249	-.00725	.00016	.00252	.00132	.00162
#2	.00090	.03228	.00143	.00013	.00154	.00131	.00157

Elem	Na5895	Na8183	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.05351**	**-.04134**	**.00054**	**3.919**	**-.00004**	**-.0020**	**.00043**
Stddev	.00659	.00290	.00008	1.025	.00027	.0000	.00012
%RSD	12.314	7.0131	14.968	26.15	746.40	1.258	27.324
#1	.05817	-.04339	.00060	3.194	.00016	-.0020	.00034
#2	.04885	-.03929	.00049	4.643	-.00023	-.0020	.00051

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00091**	**.00170**	**.00021**	**.01036**	**2.243**	**-.00081**	**-.00010**
Stddev	.00005	.00043	.00005	.00029	4.072	.00014	.00014
%RSD	5.0960	25.163	24.357	2.8434	181.5	17.852	139.09
#1	.00094	.00200	.00017	.01015	-.6364	-.00071	-.00020
#2	.00088	.00140	.00024	.01057	5.123	-.00091	-.00000

Sample Name: ICIS-6338400 Acquired: 2/19/2021 13:07:04 Type: Cal
Method: ICAP1 New Stds (v713) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Zr3438
Units	Cts/S	Cts/S	Cts/S
Avg	**-.00017**	**.00003**	**-3.077**
Stddev	.00005	.00001	3.716
%RSD	30.015	44.111	120.7
#1	-.00013	.00002	-.4500
#2	-.00021	.00004	-5.705

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4688.5**	**4098.7**	**66944.**	**2784.6**
Stddev	7.7	9.5	332.	9.2
%RSD	.16458	.23074	.49595	.33109
#1	4683.0	4092.0	67178.	2778.1
#2	4694.0	4105.4	66709.	2791.2

Sample Name: IC-6339744 Acquired: 2/19/2021 13:10:56 Type: Cal
Method: ICAP1 New Stds (v713) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00182**	**.01042**	**.00181**	**.01274**	**.04323**	**.03117**	**.03264**
Stddev	.00014	.00026	.00006	.00011	.00029	.00008	.00027
%RSD	7.9432	2.5266	3.5799	.83535	.68144	.27108	.82672
#1	.00192	.01061	.00186	.01267	.04344	.03123	.03283
#2	.00171	.01024	.00176	.01282	.04302	.03111	.03245

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.21156**	**.00465**	**.00501**	**.00144**	**.00261**	**.01135**	**.00271**
Stddev	.00077	.00035	.00034	.00005	.00007	.00071	.00159
%RSD	.36607	7.5946	6.8565	3.3921	2.7360	6.2566	58.833
#1	.21211	.00490	.00525	.00140	.00256	.01186	.00384
#2	.21102	.00440	.00477	.00147	.00266	.01085	.00158

Elem	K_7664	Li6707	Mg2790	Mn2576-2	Mn2576	Mo2020	Na5895
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.11036**	**.09630**	**.00669**	**.00437**	**.00673**	**.01321**	**.61444**
Stddev	.00380	.00217	.00002	.00035	.00008	.00001	.00750
%RSD	3.4389	2.2541	.35673	8.0909	1.2593	.05150	1.2202
#1	.10768	.09783	.00667	.00412	.00679	.01321	.60914
#2	.11304	.09476	.00670	.00462	.00667	.01322	.61974

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.02858**	**.01148**	**.00330**	**.0069**	**.00384**	**.00355**	**.02422**
Stddev	.00426	.00008	.00001	.0001	.00003	.00005	.00081
%RSD	14.903	.73029	.18461	1.077	.69775	1.5061	3.3279
#1	-.03159	.01154	.00329	.0068	.00382	.00352	.02365
#2	-.02556	.01142	.00330	.0069	.00385	.00359	.02479

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00243**	**.11907**	**.00175**	**.00366**	**.00191**	**.00066**
Stddev	.00007	.00132	.00013	.00009	.00016	.00001
%RSD	2.8607	1.1104	7.3007	2.5779	8.3835	1.4265
#1	.00238	.12000	.00166	.00359	.00180	.00067
#2	.00248	.11813	.00184	.00373	.00202	.00066

Sample Name: IC-6339744 Acquired: 2/19/2021 13:10:56 Type: Cal
Method: ICAP1 New Stds (v713) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4667.9**	**4093.1**	**67479.**	**2805.7**
Stddev	2.5	7.9	62.	7.4
%RSD	.05455	.19316	.09247	.26274
#1	4666.1	4087.5	67435.	2800.5
#2	4669.7	4098.7	67524.	2810.9

Sample Name: IC-6339745 Acquired: 2/19/2021 13:14:48 Type: Cal
Method: ICAP1 New Stds (v713) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.32397**	**1.7439**	**.11643**	**.57268**	**12.377**	**13.619**	**16.134**
Stddev	.00106	.0079	.00031	.00050	.014	.070	.042
%RSD	.32788	.45287	.26918	.08649	.11320	.51190	.26086
#1	.32322	1.7495	.11621	.57233	12.387	13.668	16.164
#2	.32472	1.7384	.11665	.57303	12.367	13.570	16.104

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**18.636**	**2.6919**	**.0640**	**1.5303**	**.31030**	**.28770**	**8.5728**
Stddev	.070	.0021	.0001	.0030	.00027	.00000	.0075
%RSD	.37423	.07620	.1351	.19813	.08614	.00167	.08714
#1	18.685	2.6904	.0640	1.5281	.31011	.28770	8.5675
#2	18.586	2.6933	.0641	1.5324	.31049	.28770	8.5781

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576-2	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.51681**	**8.4283**	**3.4114**	**1.5850**	**.91910**	**1.7298**	**1.1991**
Stddev	.00233	.0252	.0038	.0012	.00317	.0027	.0027
%RSD	.45139	.29851	.11242	.07585	.34535	.15784	.22796
#1	.51516	8.4461	3.4087	1.5858	.91686	1.7279	1.1972
#2	.51846	8.4105	3.4141	1.5841	.92135	1.7317	1.2011

Elem	Na5895	Na8183	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**28.796**	**1.0513**	**1.1234**	**12570.**	**.38018**	**1.158**	**.17630**
Stddev	.037	.0032	.0014	50.	.00069	.003	.00050
%RSD	.12761	.30107	.12023	.3971	.18260	.2867	.28501
#1	28.822	1.0536	1.1224	12540.	.38067	1.156	.17665
#2	28.770	1.0491	1.1243	12610.	.37969	1.161	.17594

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.10253**	**.49192**	**.23039**	**22.351**	**142.6**	**.54302**	**.19218**
Stddev	.00067	.00121	.00041	.074	2.7	.00025	.00064
%RSD	.65418	.24682	.17776	.32886	1.886	.04514	.33152
#1	.10206	.49106	.23010	22.403	144.5	.54320	.19173
#2	.10301	.49278	.23068	22.299	140.7	.54285	.19263

Sample Name: IC-6339745 Acquired: 2/19/2021 13:14:48 Type: Cal
Method: ICAP1 New Stds (v713) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Zr3438
Units	Cts/S	Cts/S	Cts/S
Avg	.44110	.06694	1952.
Stddev	.00095	.00015	4.
%RSD	.21620	.22570	.1890
#1	.44043	.06683	1949.
#2	.44177	.06705	1954.

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4099.1	3958.6	63138.	2786.3
Stddev	5.9	10.1	181.	2.8
%RSD	.14308	.25593	.28691	.09986
#1	4094.9	3951.5	63266.	2784.3
#2	4103.2	3965.8	63010.	2788.2

Sample Name: IC-6326557 Acquired: 2/19/2021 13:18:27 Type: Cal
Method: ICAP1 New Stds (v713) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.66114**	**3.4480**	**.23215**	**1.1197**	**24.737**	**26.889**	**31.953**
Stddev	.00025	.0069	.00068	.0009	.057	.334	.026
%RSD	.03745	.20029	.29216	.08268	.23202	1.2422	.08176
#1	.66132	3.4529	.23167	1.1190	24.778	26.652	31.935
#2	.66097	3.4431	.23263	1.1204	24.697	27.125	31.972

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**36.743**	**5.3881**	**.1231**	**3.0933**	**.61144**	**.58062**	**16.760**
Stddev	.039	.0022	.0013	.0050	.00021	.00252	.108
%RSD	.10629	.04070	1.066	.16116	.03475	.43454	.64419
#1	36.715	5.3865	.1222	3.0968	.61159	.57884	16.837
#2	36.770	5.3896	.1240	3.0897	.61129	.58240	16.684

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576-2	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.0119**	**17.054**	**6.8871**	**3.1774**	**1.8008**	**3.4166**	**2.3491**
Stddev	.0046	.008	.0426	.0036	.0121	.0068	.0088
%RSD	.45282	.04604	.61894	.11276	.67404	.19840	.37562
#1	1.0152	17.048	6.9173	3.1749	1.8094	3.4118	2.3428
#2	1.0087	17.059	6.8570	3.1800	1.7922	3.4214	2.3553

Elem	Na5895	Na8183	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**57.527**	**2.1241**	**2.2525**	**24680.**	**.76183**	**2.324**	**.35059**
Stddev	.235	.0120	.0049	59.	.00161	.002	.00056
%RSD	.40855	.56323	.21742	.2388	.21182	.1025	.16094
#1	57.693	2.1326	2.2560	24720.	.76297	2.322	.35019
#2	57.361	2.1157	2.2491	24630.	.76069	2.325	.35099

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.20325**	**.95660**	**.46142**	**44.485**	**290.2**	**1.0889**	**.38042**
Stddev	.00047	.00527	.00045	.097	.9	.0027	.00003
%RSD	.23033	.55097	.09850	.21882	.3071	.24933	.00713
#1	.20292	.96033	.46110	44.554	289.6	1.0870	.38040
#2	.20359	.95288	.46174	44.416	290.8	1.0908	.38044

Sample Name: IC-6326557 Acquired: 2/19/2021 13:18:27 Type: Cal
Method: ICAP1 New Stds (v713) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Zr3438
Units	Cts/S	Cts/S	Cts/S
Avg	.87889	.13221	3980.
Stddev	.00221	.00057	5.
%RSD	.25100	.43277	.1258
#1	.87733	.13181	3976.
#2	.88045	.13262	3983.

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3883.9	3880.0	60636.	2755.3
Stddev	3.4	11.2	366.	23.1
%RSD	.08697	.28746	.60349	.83848
#1	3886.3	3887.9	60895.	2738.9
#2	3881.5	3872.1	60377.	2771.6

Sample Name: ICV-6337475 Acquired: 2/19/2021 13:22:06 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.74514	37.325	.74301	.73324	.74083	.75084	37.466	.74355
Stddev	.00009	.065	.00031	.00017	.00005	.00096	.104	.00055
%RSD	.01168	.17410	.04146	.02331	.00618	.12776	.27645	.07457
#1	.74520	37.279	.74323	.73336	.74080	.75016	37.393	.74394
#2	.74508	37.371	.74279	.73311	.74086	.75152	37.539	.74316
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	.73527	.75076	.72804	37.613	36.862	.73034	36.733
Stddev	.0461	.00018	.00188	.00091	.007	.149	.00151	.007
%RSD	4724.	.02404	.24999	.12462	.01960	.40517	.20739	.01958
#1	-.0316	.73539	.75209	.72868	37.608	36.756	.73142	36.728
#2	.0336	.73514	.74943	.72740	37.618	36.967	.72927	36.739
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.76151	.77881	37.255	.73418	18.56	.74213	18.77	.74660
Stddev	.00046	.00010	.047	.00095	.07	.00045	.03	.00413
%RSD	.06015	.01275	.12584	.12939	.3604	.06047	.1372	.55279
#1	.76183	.77874	37.222	.73351	18.51	.74245	18.75	.74368
#2	.76118	.77888	37.289	.73486	18.61	.74182	18.79	.74952
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: ICV-6337475 Acquired: 2/19/2021 13:22:06 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.75176	7.4748	.73269	.74669	.0876	.74671	.74587	.74698
Stddev	.00031	.0177	.00077	.00233	.0020	.00017	.00156	.00007
%RSD	.04115	.23748	.10502	.31244	2.257	.02240	.20967	.00881
#1	.75198	7.4622	.73215	.74504	.0862	.74683	.74698	.74703
#2	.75155	7.4873	.73324	.74834	.0889	.74659	.74477	.74693
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.71902	.0596
Stddev	.00077	.0020
%RSD	.10769	3.319
#1	.71848	.0610
#2	.71957	.0582
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4088.9	3899.6	62416.	2744.7
Stddev	16.8	14.4	67.	3.6
%RSD	.40984	.36934	.10793	.13096
#1	4077.1	3889.4	62369.	2742.2
#2	4100.8	3909.8	62464.	2747.3

Sample Name: ICB-6338400 Acquired: 2/19/2021 13:25:46 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.02937**	**-.00025**	**.00084**	**.00004**	**-.00010**	**-.00165**	**.00006**
Stddev	.00033	.00746	.00196	.00046	.00001	.00005	.00751	.00005
%RSD	158.40	25.398	774.27	55.343	33.725	53.246	456.46	73.525
#1	.00003	.03465	.00113	.00117	.00003	-.00006	.00367	.00009
#2	-.00045	.02410	-.00164	.00051	.00005	-.00013	-.00696	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0350**	**.00000**	**.00033**	**-.00035**	**-.00024**	**.05205**	**.00047**	**.00057**
Stddev	.0182	.00001	.00003	.00023	.00257	.04880	.00032	.00003
%RSD	52.00	427.00	9.4991	64.787	1070.0	93.756	66.560	5.5669
#1	-.0479	-.00000	.00031	-.00051	.00158	.08655	.00070	.00055
#2	-.0222	.00001	.00035	-.00019	-.00206	.01754	.00025	.00059
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.00173**	**-.00741**	**-.00010**	**-.0000**	**-.00037**	**-.0007**	**.00177**
Stddev	.00003	.00037	.00035	.00019	.0019	.00039	.0006	.00194
%RSD	40.892	21.186	4.7134	200.53	15290.	103.97	81.06	109.38
#1	-.00009	.00199	-.00766	-.00023	-.0014	-.00065	-.0003	.00040
#2	-.00005	.00147	-.00716	.00004	.0013	-.00010	-.0011	.00314
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: ICB-6338400 Acquired: 2/19/2021 13:25:46 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00082**	**-.00487**	**.00040**	**-.00006**	**-.0093**	**-.00014**	**-.00024**	**-.00008**
Stddev	.00232	.01480	.00004	.00015	.0226	.00011	.00020	.00010
%RSD	283.91	303.83	9.8350	239.46	244.3	83.214	83.245	116.64
#1	-.00246	.00559	.00038	.00004	.0067	-.00022	-.00010	-.00015
#2	.00082	-.01533	.00043	-.00017	-.0253	-.00006	-.00038	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**.00021**	**-.0005**
Stddev	.00009	.0007
%RSD	41.541	138.1
#1	.00027	-.0010
#2	.00015	-.0000
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4720.1**	**4122.0**	**67926.**	**2806.3**
Stddev	21.2	27.3	34.	7.0
%RSD	.44961	.66168	.04937	.24951
#1	4705.1	4102.7	67902.	2811.2
#2	4735.1	4141.2	67950.	2801.3

Sample Name: ICVL-6339744 Acquired: 2/19/2021 13:29:38 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00585**	**.16389**	**.01646**	**.01911**	**.00199**	**.00198**	**.50369**	**.00185**
Stddev	.00009	.06046	.00011	.00024	.00001	.00008	.00794	.00003
%RSD	1.5819	36.891	.64887	1.2696	.61606	4.2200	1.5768	1.8373
#1	.00578	.12114	.01639	.01928	.00198	.00192	.49807	.00183
#2	.00591	.20665	.01654	.01894	.00200	.00204	.50931	.00188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0138**	**.00367**	**.00410**	**.00948**	**.04531**	**.42828**	**.02637**	**.20250**
Stddev	.0368	.00021	.00015	.00032	.00321	.00185	.00248	.00238
%RSD	266.5	5.7959	3.5368	3.3492	7.0807	.43207	9.4094	1.1740
#1	.0122	.00382	.00420	.00926	.04304	.42959	.02461	.20082
#2	-.0399	.00352	.00400	.00971	.04758	.42697	.02812	.20418
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00293**	**.00998**	**.92419**	**.00951**	**-.0370**	**.00977**	**.1911**	**.01836**
Stddev	.00002	.00004	.00184	.00010	.0001	.00030	.0001	.00093
%RSD	.83007	.38740	.19919	1.0796	.2195	3.0441	.0414	5.0839
#1	.00294	.01001	.92289	.00944	-.0369	.00956	.1910	.01770
#2	.00291	.00995	.92549	.00959	-.0371	.00998	.1912	.01902
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: ICVL-6339744 Acquired: 2/19/2021 13:29:38 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02374	.48465	.00882	.00476	-.0024	.00430	.01948	.00443
Stddev	.00073	.01525	.00013	.00008	.0168	.00027	.00055	.00031
%RSD	3.0640	3.1461	1.5197	1.7327	688.3	6.3370	2.8003	6.9103
#1	.02425	.47387	.00873	.00482	-.0143	.00450	.01987	.00465
#2	.02322	.49544	.00892	.00470	.0094	.00411	.01909	.00422
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.00942	-.0020
Stddev	.00039	.0001
%RSD	4.1603	4.496
#1	.00970	-.0019
#2	.00914	-.0020
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4680.0	4121.0	67914.	2857.2
Stddev	6.5	9.4	80.	4.2
%RSD	.13873	.22725	.11767	.14866
#1	4684.6	4127.6	67858.	2854.2
#2	4675.4	4114.4	67971.	2860.2

Sample Name: ICSA-6339169 Acquired: 2/19/2021 13:33:28 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00103**	**505.11**	**-.00726**	**.00180**	**.01291**	**-.00005**	**480.44**
Stddev	.00105	4.07	.00123	.00058	.00000	.00004	7.56
%RSD	101.93	.80536	16.970	32.135	.03245	74.952	1.5739
#1	-.00177	507.98	-.00813	.00139	.01291	-.00003	485.79
#2	-.00029	502.23	-.00639	.00221	.01290	-.00008	475.10
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00078**	**.0231**	**-.00067**	**.00128**	**-.00027**	**191.67**	**.23413**
Stddev	.00003	.0418	.00018	.00023	.00100	.73	.00682
%RSD	4.1736	181.0	26.665	17.799	363.19	.38300	2.9136
#1	.00076	-.0065	-.00054	.00145	-.00098	192.18	.23895
#2	.00081	.0527	-.00079	.00112	.00043	191.15	.22930
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2136
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00725**	**509.66**	**-.00022**	**.00011**	**.17730**	**.00035**	**-.2999**
Stddev	.00092	1.97	.00003	.00014	.00856	.00009	.0022
%RSD	12.697	.38746	14.080	125.26	4.8262	27.191	.7484
#1	.00790	508.26	-.00024	.00001	.18335	.00028	-.3015
#2	.00660	511.05	-.00020	.00021	.17125	.00041	-.2983
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit							
Low Limit							

Sample Name: ICSA-6339169 Acquired: 2/19/2021 13:33:28 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00508**	W **-.2101**	**-.00082**	**-.00099**	**-.00591**	**.00203**	**.02414**
Stddev	.00012	.0006	.00324	.00314	.01461	.00106	.00007
%RSD	2.3443	.3022	397.00	317.28	247.25	52.121	.29621
#1	-.00516	-.2105	.00148	-.00321	-.01624	.00128	.02419
#2	-.00499	-.2096	-.00311	.00123	.00442	.00277	.02409
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	None	Chk Pass	None
High Limit		.2000					
Low Limit		-.2000					

Elem	Th2837	Ti3349	Tl1908	V_2924	Zn2062	Zr3438
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1769**	**.00253**	**-.00015**	**-.00178**	**.00216**	**.0058**
Stddev	.0071	.00016	.00006	.00015	.00043	.0014
%RSD	3.998	6.3475	41.480	8.1566	20.170	24.86
#1	.1719	.00242	-.00010	-.00188	.00185	.0068
#2	.1819	.00265	-.00019	-.00168	.00246	.0048
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3526.7**	**3560.8**	**56576.**	**2653.3**
Stddev	5.1	5.2	15.	20.5
%RSD	.14542	.14689	.02632	.77232
#1	3530.4	3564.5	56586.	2638.8
#2	3523.1	3557.1	56565.	2667.8

Sample Name: ICSAB-6322865 Acquired: 2/19/2021 13:37:21 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.53708**	**506.49**	**.52106**	**4.9536**	**.52941**	**.25634**	**482.13**	**.53700**
Stddev	.00365	1.39	.00361	.0034	.00010	.00109	2.21	.00052
%RSD	.68011	.27472	.69247	.06806	.01956	.42697	.45845	.09740
#1	.53450	507.48	.52361	4.9512	.52948	.25711	480.57	.53663
#2	.53967	505.51	.51850	4.9560	.52933	.25557	483.70	.53737
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0326**	**.50731**	**.50505**	**.53767**	**190.28**	**5.5106**	**.00582**	**516.71**
Stddev	.0443	.00046	.00034	.00046	.32	.0030	.00072	.64
%RSD	135.8	.09156	.06638	.08541	.16855	.05463	12.349	.12476
#1	.0639	.50698	.50482	.53735	190.05	5.5085	.00632	517.16
#2	.0013	.50764	.50529	.53800	190.50	5.5127	.00531	516.25
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49943**	**.50826**	**5.6118**	**.49921**	**3.707**	**.50442**	**-.2333**	**.49791**
Stddev	.00197	.00050	.0124	.00135	.002	.00078	.0020	.00186
%RSD	.39465	.09834	.22149	.26955	.0658	.15382	.8564	.37433
#1	.49804	.50791	5.6206	.49826	3.705	.50497	-.2347	.49660
#2	.50083	.50861	5.6030	.50016	3.708	.50387	-.2319	.49923
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	Chk Pass
Value								
Range								

Sample Name: ICSAB-6322865 Acquired: 2/19/2021 13:37:21 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.52449	4.7427	.50672	.53220	.1674	.51217	.50199	.50801
Stddev	.00690	.0467	.00003	.00153	.0162	.00087	.00327	.00043
%RSD	1.3156	.98400	.00658	.28805	9.689	.16943	.65234	.08563
#1	.51961	4.7757	.50674	.53328	.1560	.51278	.49968	.50831
#2	.52937	4.7097	.50670	.53111	.1789	.51156	.50431	.50770
Check ?	Chk Pass	Chk Pass	None	None	None	None	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.45956	.0053
Stddev	.00094	.0008
%RSD	.20368	14.93
#1	.45889	.0048
#2	.46022	.0059
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3512.9	3549.3	56782.	2708.6
Stddev	.6	.9	190.	6.1
%RSD	.01593	.02557	.33430	.22618
#1	3513.3	3548.7	56648.	2712.9
#2	3512.5	3550.0	56916.	2704.2

Sample Name: ICEX1 Acquired: 2/19/2021 13:41:14 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	**-.16248**	**5.2664**	**.00387**	**-.00009**
Stddev	.00051	.04057	.0004	.00005	.00002
%RSD	119.80	24.970	.00707	1.2160	18.595
#1	.00079	-.19116	5.2661	.00390	-.00008
#2	.00007	-.13379	5.2666	.00383	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	**.02464**	**-.00006**	**.0103**	**-.00002**
Stddev	.00004	.00317	.00005	.0322	.00013
%RSD	8.8854	12.853	87.108	313.1	595.02
#1	.00041	.02240	-.00002	.0330	-.00011
#2	.00046	.02688	-.00010	-.0125	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	**24.986**	**.01241**	**.01027**	**-.00077**
Stddev	.00013	.075	.00181	.00081	.00066
%RSD	21.848	.29869	14.551	7.8894	85.760
#1	.00068	25.039	.01113	.00970	-.00123
#2	.00050	24.933	.01368	.01084	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 2/19/2021 13:41:14 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02241**	**-.00022**	**-.00140**	**.03858**	**.00007**
Stddev	.00525	.00002	.00030	.00244	.00013
%RSD	23.416	10.505	21.396	6.3285	189.32
#1	.02613	-.00021	-.00119	.04030	-.00002
#2	.01870	-.00024	-.00161	.03685	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	**-.00165**	**-.0044**	**.00112**	**-.00276**
Stddev	-----	.00007	.0015	.00064	.00034
%RSD	-----	4.5377	34.05	57.615	12.231
#1	^ -----	-.00170	-.0055	.00066	-.00300
#2	^ -----	-.00160	-.0033	.00157	-.00252
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00627**	**.00039**	**-.00013**	**-.0175**	**-.00005**
Stddev	.01355	.00018	.00003	.0276	.00018
%RSD	216.26	45.294	24.027	157.6	345.93
#1	-.00332	.00052	-.00011	-.0370	-.00018
#2	.01585	.00027	-.00015	.0020	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 2/19/2021 13:41:14 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00355**	**4.9831**	**.00033**	**.0004**
Stddev	.00052	.0021	.00016	.0023
%RSD	14.620	.04224	48.593	558.8
#1	.00318	4.9846	.00022	.0020
#2	.00392	4.9816	.00045	-.0012
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4647.6**	**4092.1**	**68231.**	**2835.0**
Stddev	19.5	18.8	268.	3.2
%RSD	.41884	.45828	.39313	.11320
#1	4661.3	4105.4	68042.	2837.3
#2	4633.8	4078.8	68421.	2832.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.127%	99.840%	101.92%	101.81%
Range				

Sample Name: ICEX2 Acquired: 2/19/2021 13:45:14 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00078**	**.01263**	**.00293**	**.00372**	**-.00005**
Stddev	.00036	.00808	.00265	.00019	.00001
%RSD	46.588	63.952	90.453	4.9929	25.583
#1	-.00104	.01834	.00106	.00385	-.00006
#2	-.00052	.00692	.00480	.00359	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00121**	**.01019**	**-.00020**	**.0329**	**-.00083**
Stddev	.00012	.00088	.00019	.0070	.00019
%RSD	10.016	8.6830	91.803	21.27	22.549
#1	.00112	.00956	-.00033	.0279	-.00070
#2	.00129	.01081	-.00007	.0378	-.00096
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00074**	**-.00184**	**.00121**	**.00341**	**9.6959**
Stddev	.00011	.00009	.00033	.05396	.0355
%RSD	14.438	4.8975	26.909	1580.9	.36643
#1	.00081	-.00190	.00098	.04157	9.7211
#2	.00066	-.00177	.00144	-.03474	9.6708
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 2/19/2021 13:45:14 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.03267**	**-.00009**	**-.00060**	**-.01670**	**.00406**
Stddev	.00054	.00007	.00015	.00454	.00007
%RSD	1.6429	80.247	24.725	27.202	1.8352
#1	-.03229	-.00014	-.00050	-.01349	.00400
#2	-.03305	-.00004	-.00071	-.01991	.00411
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.0090**	**-.00099**	**-.0227**	**.00531**	**.00148**
Stddev	.0001	.00011	.0006	.00162	.00093
%RSD	1.444	11.089	2.742	30.464	62.316
#1	-.0089	-.00107	-.0232	.00646	.00214
#2	-.0091	-.00091	-.0223	.00417	.00083
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.115**	**.00048**	**-.00008**	**-.0116**	**20.179**
Stddev	.145	.00029	.00003	.0055	.109
%RSD	.30157	60.150	34.695	47.89	.53976
#1	48.012	.00068	-.00009	-.0077	20.102
#2	48.217	.00027	-.00006	-.0155	20.256
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 2/19/2021 13:45:14 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**20.863**	**-.00206**	**.00071**	**.0424**
Stddev	.008	.00008	.00019	.0026
%RSD	.04035	4.0760	26.115	6.070
#1	20.869	-.00211	.00058	.0442
#2	20.857	-.00200	.00084	.0406
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4318.4**	**3996.6**	**65360.**	**2779.8**
Stddev	1.4	.6	96.	3.4
%RSD	.03190	.01478	.14756	.12106
#1	4319.4	3997.0	65428.	2782.2
#2	4317.4	3996.2	65292.	2777.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.107%	97.510%	97.635%	99.826%
Range				

Sample Name: ICEX3 Acquired: 2/19/2021 13:49:08 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00248**	**.04043**	**.00218**	**.00021**	**-.00014**
Stddev	.00050	.01558	.00327	.00009	.00002
%RSD	20.238	38.524	149.87	44.039	15.584
#1	-.00213	.05145	-.00013	.00014	-.00013
#2	-.00284	.02942	.00449	.00027	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00466**	**.00029**	**.0608**	**.00012**
Stddev	.00002	.00225	.00009	.0225	.00008
%RSD	23.025	48.298	32.374	37.03	64.587
#1	-.00011	.00625	.00022	.0449	.00018
#2	-.00008	.00307	.00036	.0768	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00280**	**.00099**	**.00568**	**-.00816**	**.00171**
Stddev	.00001	.00062	.00351	.02565	.00107
%RSD	.32764	63.053	61.832	314.51	62.176
#1	-.00279	.00055	.00320	-.02630	.00247
#2	-.00280	.00143	.00817	.00998	.00096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 2/19/2021 13:49:08 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01181**	**52.366**	**-.00432**	**-.04615**	**.00027**
Stddev	.00079	.134	.00002	.00182	.00003
%RSD	6.6520	.25496	.38483	3.9366	10.053
#1	.01126	52.271	-.00433	-.04486	.00029
#2	.01237	52.460	-.00431	-.04743	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.0083**	**.00586**	**98.78**	**-.00378**	**.00705**
Stddev	.0006	.00017	.16	.00049	.00176
%RSD	6.740	2.9629	.1632	12.870	24.953
#1	-.0087	.00574	98.90	-.00412	.00829
#2	-.0080	.00598	98.67	-.00344	.00580
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01655**	**-.00018**	**-.00014**	**-.0173**	**-.00225**
Stddev	.00335	.00005	.00004	.0000	.00003
%RSD	20.238	26.158	28.986	.1272	1.4531
#1	.01419	-.00022	-.00011	-.0173	-.00228
#2	.01892	-.00015	-.00017	-.0173	-.00223
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 2/19/2021 13:49:08 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00039**	**.00067**	**-.0043**
Stddev	.00241	.00001	.00021	.0010
%RSD	2051.7	3.6807	30.956	22.11
#1	-.00159	.00038	.00082	-.0050
#2	.00182	.00040	.00053	-.0036
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4587.4**	**4053.7**	**66818.**	**2846.9**
Stddev	1.9	4.0	32.	2.1
%RSD	.04178	.09829	.04758	.07289
#1	4586.0	4056.5	66840.	2845.4
#2	4588.7	4050.8	66795.	2848.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.843%	98.902%	99.812%	102.23%
Range				

Sample Name: ICEX4 Acquired: 2/19/2021 13:53:00 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**-.05691**	**-.00060**	**-.00113**	**-.00012**
Stddev	.00030	.03182	.00223	.00038	.00001
%RSD	73.078	55.908	369.87	33.521	12.001
#1	.00020	-.03441	.00097	-.00086	-.00011
#2	.00063	-.07941	-.00218	-.00140	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**-.00198**	**-.00112**	**.0698**	**18.950**
Stddev	.00001	.00095	.00014	.0339	.005
%RSD	9.1868	48.128	12.385	48.56	.02457
#1	-.00016	-.00131	-.00122	.0458	18.946
#2	-.00014	-.00265	-.00102	.0938	18.953
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.246**	**.00631**	**-.00381**	**-.05055**	**-.00156**
Stddev	.023	.00008	.00456	.00616	.00107
%RSD	.22298	1.2293	119.58	12.180	68.561
#1	10.230	.00637	-.00703	-.04619	-.00080
#2	10.263	.00626	-.00059	-.05490	-.00231
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 2/19/2021 13:53:00 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00096**	**.00117**	**-.00048**	**-.05990**	**9.9061**
Stddev	.00128	.00008	.00003	.01314	.0081
%RSD	133.00	7.1764	6.0068	21.937	.08145
#1	.00186	.00123	-.00050	-.06919	9.9004
#2	.00006	.00111	-.00046	-.05061	9.9118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.0131**	**-.00295**	**-.0200**	**.00320**	**-.00021**
Stddev	.0027	.00140	.0028	.00164	.00112
%RSD	20.58	47.455	14.16	51.333	538.56
#1	-.0150	-.00196	-.0180	.00204	-.00100
#2	-.0112	-.00394	-.0220	.00436	.00058
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.14274**	**-.00034**	**-.00014**	**-.0120**	**.00265**
Stddev	.02537	.00035	.00002	.0035	.00001
%RSD	17.773	102.60	16.446	29.02	.42213
#1	-.12480	-.00009	-.00012	-.0096	.00265
#2	-.16068	-.00059	-.00016	-.0145	.00264
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 2/19/2021 13:53:00 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00029**	**-.00003**	**.00131**	**-.0042**
Stddev	.00111	.00023	.00002	.0011
%RSD	384.22	752.77	1.2759	27.04
#1	-.00107	.00013	.00130	-.0034
#2	.00050	-.00019	.00133	-.0050
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4643.9**	**4054.8**	**67344.**	**2792.8**
Stddev	2.4	3.4	253.	13.2
%RSD	.05095	.08312	.37566	.47267
#1	4642.2	4057.2	67523.	2802.1
#2	4645.5	4052.4	67165.	2783.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.048%	98.930%	100.60%	100.29%
Range				

Sample Name: ICEX5 Acquired: 2/19/2021 13:56:48 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**.17806**	**.00385**	**.00168**	**-.00023**
Stddev	.00040	.02969	.00090	.00049	.00001
%RSD	147.13	16.674	23.356	29.351	6.2756
#1	.00055	.15706	.00448	.00203	-.00024
#2	-.00001	.19905	.00321	.00133	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00115**	**.00008**	**.0205**	**-.00081**
Stddev	.00006	.00608	.00001	.0461	.00007
%RSD	33.483	528.98	11.081	225.3	8.2098
#1	-.00021	.00545	.00007	.0531	-.00076
#2	-.00013	-.00315	.00009	-.0121	-.00086
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**-.00231**	**-.00701**	**-.02832**	**-.00149**
Stddev	.00043	.00015	.00010	.01890	.00275
%RSD	91.704	6.5511	1.4382	66.745	185.35
#1	-.00017	-.00241	-.00708	-.04169	.00046
#2	-.00078	-.00220	-.00694	-.01496	-.00343
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 2/19/2021 13:56:48 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.05248**	**.00031**	**5.1918**	**-.03838**	**-.00001**
Stddev	.00122	.00005	.0197	.00375	.00016
%RSD	2.3237	17.663	.37899	9.7846	1910.7
#1	-.05161	.00034	5.1779	-.04103	.00010
#2	-.05334	.00027	5.2057	-.03572	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.0202**	**.00044**	**-.0115**	**.00185**	**.00003**
Stddev	.0007	.00019	.0018	.00041	.00225
%RSD	3.547	42.685	15.41	22.284	7244.9
#1	-.0207	.00057	-.0127	.00156	.00162
#2	-.0197	.00031	-.0102	.00214	-.00156
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01801**	**.00020**	**-.00011**	**-.0120**	**.00090**
Stddev	.00421	.00017	.00003	.0144	.00013
%RSD	23.355	84.818	27.179	120.0	14.041
#1	.01504	.00033	-.00013	-.0222	.00081
#2	.02099	.00008	-.00009	-.0018	.00099
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 2/19/2021 13:56:48 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00037**	**-.00042**	**-.00039**	**.0004**
Stddev	.00030	.00005	.00014	.0002
%RSD	80.990	11.902	35.646	51.44
#1	-.00059	-.00046	-.00048	.0003
#2	-.00016	-.00039	-.00029	.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4618.3**	**4070.0**	**67815.**	**2829.1**
Stddev	.9	3.0	57.	15.2
%RSD	.02037	.07323	.08418	.53704
#1	4619.0	4067.9	67774.	2818.3
#2	4617.6	4072.2	67855.	2839.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.503%	99.302%	101.30%	101.60%
Range				

Sample Name: CCV-6339745 Acquired: 2/19/2021 14:00:40 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0040**	**50.985**	**1.0196**	**1.0511**	**1.0241**	**1.0332**	**51.521**	**1.0358**
Stddev	.0055	.047	.0017	.0012	.0017	.0006	.027	.0011
%RSD	.54243	.09263	.16164	.11019	.16755	.06246	.05204	.10827
#1	1.0079	51.019	1.0208	1.0503	1.0229	1.0327	51.540	1.0350
#2	1.0002	50.952	1.0184	1.0519	1.0253	1.0337	51.502	1.0365
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9825**	**1.0256**	**1.0200**	**1.0288**	**50.947**	**50.710**	**.98780**	**50.955**
Stddev	.0190	.0012	.0032	.0014	.253	.107	.00274	.084
%RSD	1.930	.12118	.31798	.13943	.49656	.21099	.27695	.16496
#1	.9959	1.0247	1.0223	1.0299	50.768	50.634	.98586	51.014
#2	.9691	1.0265	1.0177	1.0278	51.126	50.786	.98973	50.895
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0137**	**1.0665**	**50.444**	**1.0261**	**25.98**	**1.0297**	**25.81**	**1.0206**
Stddev	.0050	.0017	.117	.0015	.08	.0021	.01	.0027
%RSD	.49284	.15911	.23098	.14456	.2986	.20648	.0379	.26370
#1	1.0173	1.0677	50.361	1.0251	25.92	1.0282	25.81	1.0225
#2	1.0102	1.0653	50.526	1.0272	26.03	1.0312	25.80	1.0187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6339745 Acquired: 2/19/2021 14:00:40 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0270**	**10.200**	**1.0195**	**1.0207**	**1.020**	**1.0285**	**1.0426**	**1.0258**
Stddev	.0014	.043	.0003	.0009	.010	.0034	.0010	.0025
%RSD	.13461	.42297	.02505	.08488	1.011	.33339	.09941	.24138
#1	1.0280	10.230	1.0197	1.0201	1.013	1.0309	1.0418	1.0276
#2	1.0261	10.169	1.0193	1.0213	1.027	1.0261	1.0433	1.0241
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**1.0339**	**.9399**
Stddev	.0022	.0073
%RSD	.21445	.7807
#1	1.0355	.9347
#2	1.0324	.9451
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4076.0**	**3948.9**	**62982.**	**2786.5**
Stddev	9.8	14.5	101.	3.1
%RSD	.23978	.36794	.16033	.11016
#1	4069.1	3938.6	62911.	2788.7
#2	4082.9	3959.2	63053.	2784.3

Sample Name: CCB-6338400 Acquired: 2/19/2021 14:04:18 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00005	-.04157	.00082	.00009	-.00006	-.00010	.00078	-.00005
Stddev	.00040	.00416	.00037	.00022	.00000	.00001	.00190	.00018
%RSD	807.03	10.008	45.237	257.73	3.5607	12.412	243.97	384.66
#1	-.00023	-.04452	.00056	-.00007	-.00006	-.00009	.00212	-.00018
#2	.00033	-.03863	.00109	.00025	-.00006	-.00011	-.00056	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0201	.00007	.00011	-.00054	.00272	.01505	-.00169	.00229
Stddev	.0286	.00016	.00001	.00070	.00252	.00793	.00031	.00090
%RSD	142.1	251.64	6.7888	129.24	92.580	52.694	18.408	39.105
#1	.0403	-.00005	.00011	-.00103	.00451	.02066	-.00191	.00292
#2	-.0001	.00018	.00012	-.00005	.00094	.00944	-.00147	.00166
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00027	.00557	-.03886	.00009	-.0012	.00025	-.0004	.00101
Stddev	.00004	.00132	.00735	.00019	.0008	.00012	.0031	.00045
%RSD	16.276	23.713	18.919	210.12	72.36	48.190	717.3	44.479
#1	.00030	.00650	-.04405	-.00005	-.0018	.00016	.0018	.00133
#2	.00024	.00464	-.03366	.00023	-.0006	.00033	-.0027	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6338400 Acquired: 2/19/2021 14:04:18 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00126**	**.01461**	**-.00005**	**-.00018**	**-.0141**	**.00030**	**-.00018**	**-.00008**
Stddev	.00143	.01992	.00010	.00004	.0196	.00012	.00010	.00006
%RSD	113.57	136.37	226.32	20.914	138.8	40.347	57.054	76.633
#1	.00227	.02869	.00003	-.00021	-.0279	.00022	-.00010	-.00012
#2	.00025	.00052	-.00012	-.00016	-.0003	.00039	-.00025	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**.00022**	**.0005**
Stddev	.00016	.0028
%RSD	74.289	536.2
#1	.00034	.0025
#2	.00011	-.0015
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4643.2**	**4064.2**	**66902.**	**2773.7**
Stddev	6.0	5.4	284.	4.5
%RSD	.12874	.13385	.42470	.16089
#1	4647.4	4068.0	67103.	2770.6
#2	4639.0	4060.3	66701.	2776.9

Sample Name: CCVL-6339744 Acquired: 2/19/2021 14:27:23 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00574**	**.17610**	**.01340**	**.01787**	**.00190**	**.00185**	**.49061**	**.00183**
Stddev	.00059	.00443	.00107	.00007	.00000	.00002	.00143	.00003
%RSD	10.279	2.5184	7.9495	.38909	.01444	1.1774	.29198	1.6934
#1	.00616	.17923	.01265	.01792	.00190	.00183	.49163	.00181
#2	.00532	.17296	.01416	.01782	.00190	.00187	.48960	.00185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014**	**.00369**	**.00382**	**.00919**	**.04541**	**.39526**	**.02581**	**.19793**
Stddev	.0271	.00003	.00011	.00023	.00086	.01319	.00118	.00082
%RSD	1888.	.75223	2.9053	2.4730	1.9013	3.3381	4.5740	.41392
#1	.0206	.00371	.00390	.00935	.04480	.38593	.02498	.19735
#2	-.0177	.00367	.00374	.00903	.04602	.40459	.02664	.19851
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00286**	**.00934**	**.88026**	**.00926**	**-.0398**	**.00917**	**.1832**	**.02006**
Stddev	.00000	.00005	.00063	.00009	.0003	.00076	.0018	.00110
%RSD	.06693	.53777	.07202	.97501	.6776	8.3244	.9564	5.4921
#1	.00286	.00931	.88071	.00920	-.0400	.00971	.1820	.02084
#2	.00286	.00938	.87981	.00933	-.0396	.00863	.1844	.01928
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVL-6339744 Acquired: 2/19/2021 14:27:23 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02372**	**.44630**	**.00898**	**.00455**	**-.0210**	**.00440**	**.01959**	**.00439**
Stddev	.00097	.02269	.00002	.00011	.0151	.00029	.00059	.00000
%RSD	4.0690	5.0844	.24330	2.3559	71.70	6.6350	3.0043	.02548
#1	.02440	.46235	.00900	.00462	-.0317	.00419	.02001	.00439
#2	.02304	.43026	.00897	.00447	-.0104	.00460	.01918	.00439
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**.00955**	**-.0009**
Stddev	.00039	.0028
%RSD	4.1078	321.1
#1	.00983	-.0029
#2	.00927	.0011
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4647.2**	**4100.3**	**67294.**	**2828.8**
Stddev	7.0	9.2	43.	22.8
%RSD	.14971	.22441	.06399	.80546
#1	4652.2	4106.8	67324.	2844.9
#2	4642.3	4093.8	67263.	2812.7

Sample Name: MB 480-570033/1-A Acquired: 2/19/2021 14:31:13 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**-.02275**	**.00076**	**-.00100**	**-.00003**
Stddev	.00015	.02485	.00073	.00016	.00001
%RSD	44.733	109.20	96.475	16.387	42.321
#1	.00043	-.04032	.00128	-.00112	-.00004
#2	.00022	-.00518	.00024	-.00088	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.01279**	**-.00006**	**.0576**	**.00005**
Stddev	.00004	.00560	.00009	.0008	.00006
%RSD	70.292	43.780	157.09	1.319	119.85
#1	-.00009	.00883	-.00012	.0581	.00009
#2	-.00003	.01675	.00001	.0570	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**-.00041**	**-.00598**	**-.01731**	**-.00169**
Stddev	.00035	.00048	.00588	.04279	.00190
%RSD	89.738	116.49	98.351	247.11	112.48
#1	.00063	-.00074	-.00182	.01294	-.00304
#2	.00014	-.00007	-.01014	-.04757	-.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-570033/1-A Acquired: 2/19/2021 14:31:13 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00201**	**.00082**	**-.00074**	**-.03533**	**.00020**
Stddev	.00022	.00001	.00010	.00160	.00007
%RSD	11.164	1.4923	13.194	4.5294	35.776
#1	.00217	.00081	-.00081	-.03647	.00015
#2	.00185	.00083	-.00067	-.03420	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0343**	**-.00015**	**.0038**	**.00088**	**.00192**
Stddev	.0005	.00074	.0002	.00019	.00011
%RSD	1.542	481.12	6.291	21.163	5.5968
#1	.0339	.00037	.0036	.00075	.00185
#2	.0347	-.00068	.0039	.00101	.00200
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.26752**	F **.03135**	**-.00017**	**-.0115**	**.00019**
Stddev	.01864	.00046	.00004	.0031	.00002
%RSD	6.9678	1.4805	24.878	27.10	9.3330
#1	.25434	.03167	-.00020	-.0138	.00018
#2	.28070	.03102	-.00014	-.0093	.00021
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
High Limit		.01000			
Low Limit		-.01000			

Sample Name: MB 480-570033/1-A Acquired: 2/19/2021 14:31:13 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00012**	**-.00036**	**.00067**	**-.0022**
Stddev	.00125	.00003	.00037	.0008
%RSD	1062.3	9.2890	54.803	36.00
#1	-.00101	-.00038	.00041	-.0028
#2	.00077	-.00033	.00093	-.0017
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4659.7**	**4094.3**	**68064.**	**2830.5**
Stddev	20.1	17.1	70.	10.9
%RSD	.43137	.41781	.10214	.38648
#1	4645.5	4082.2	68015.	2838.2
#2	4673.9	4106.4	68114.	2822.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.386%	99.894%	101.67%	101.65%
Range				

Sample Name: LCSSRM 480-570033/2- Acquired: 2/19/2021 14:35:05 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21374**	**87.219**	**1.4658**	**2.3899**	**1.2226**
Stddev	.00013	.375	.0024	.0060	.0059
%RSD	.05994	.42982	.16440	.25222	.48352
#1	.21365	86.954	1.4640	2.3857	1.2185
#2	.21383	87.485	1.4675	2.3942	1.2268
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.4250**	**42.145**	**1.2285**	**1.207**	**.93750**
Stddev	.0045	.147	.0015	.012	.00028
%RSD	.31646	.34956	.12248	1.006	.02934
#1	1.4218	42.041	1.2274	1.198	.93730
#2	1.4282	42.249	1.2296	1.215	.93769
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0352**	**1.2716**	**122.98**	**19.613**	**.05983**
Stddev	.0015	.0030	1.22	.050	.00039
%RSD	.14984	.23736	.99385	.25589	.65283
#1	1.0341	1.2695	122.12	19.649	.05956
#2	1.0363	1.2738	123.85	19.578	.06011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSSRM 480-570033/2- Acquired: 2/19/2021 14:35:05 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.310**	**2.6947**	**.41924**	**1.3249**	**.80746**
Stddev	.017	.0048	.00090	.0140	.00051
%RSD	.08157	.17907	.21493	1.0541	.06292
#1	21.297	2.6981	.41860	1.3150	.80710
#2	21.322	2.6913	.41988	1.3348	.80782
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	**.81297**	**.7413**	**.79871**	**1.5718**
Stddev	-----	.00227	.0009	.00169	.0002
%RSD	-----	.27877	.1184	.21157	.01383
#1	^ -----	.81457	.7419	.79991	1.5720
#2	^ -----	.81137	.7407	.79752	1.5717
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.1427**	**.93065**	**.87761**	**.3491**	**4.5356**
Stddev	.0951	.00261	.00328	.0292	.0127
%RSD	1.5487	.28009	.37391	8.369	.27996
#1	6.0755	.92881	.87529	.3697	4.5266
#2	6.2100	.93250	.87993	.3284	4.5446
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSSRM 480-570033/2- Acquired: 2/19/2021 14:35:05 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.91565**	**.90052**	**2.6141**	**.0655**
Stddev	.00172	.00005	.0094	.0009
%RSD	.18740	.00587	.35949	1.347
#1	.91443	.90048	2.6074	.0649
#2	.91686	.90055	2.6207	.0661
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4200.7**	**4538.8**	**74062.**	**3238.0**
Stddev	12.3	14.5	290.	15.3
%RSD	.29359	.31881	.39153	.47294
#1	4209.4	4549.1	73857.	3248.8
#2	4192.0	4528.6	74267.	3227.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.596%	110.74%	110.63%	116.28%
Range				

Sample Name: 480-181224-A-1-B Acquired: 2/19/2021 14:38:51 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**140.24**	**.14724**	**.20869**	**2.6135**
Stddev	.00015	.95	.00013	.00026	.0130
%RSD	32.112	.67969	.08664	.12257	.49563
#1	.00037	139.57	.14715	.20851	2.6043
#2	.00058	140.91	.14734	.20887	2.6226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00822**	**14.433**	**.00084**	**.3831**	**.02446**
Stddev	.00001	.063	.00019	.0026	.00018
%RSD	.11373	.43572	22.979	.6808	.75504
#1	.00821	14.389	.00071	.3812	.02459
#2	.00823	14.478	.00098	.3849	.02433
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.61387**	**.02996**	**167.55**	**34.046**	**.11751**
Stddev	.00212	.00024	.04	.182	.00122
%RSD	.34533	.81713	.02444	.53368	1.0392
#1	.61537	.02978	167.58	33.917	.11664
#2	.61238	.03013	167.52	34.174	.11837
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181224-A-1-B Acquired: 2/19/2021 14:38:51 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.582**	**.25617**	**.01203**	**1.8927**	**.08417**
Stddev	.053	.00013	.00013	.0185	.00037
%RSD	.15404	.04973	1.0781	.97917	.44041
#1	34.619	.25626	.01212	1.8796	.08443
#2	34.544	.25608	.01194	1.9059	.08391
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.592**	**.06897**	**6.929**	**-.00283**	**.00759**
Stddev	.008	.00011	.008	.00244	.00348
%RSD	.2341	.15292	.1168	86.189	45.912
#1	3.586	.06905	6.935	-.00110	.00512
#2	3.598	.06890	6.923	-.00455	.01005
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.5226**	**.03520**	**.73132**	**.2178**	**.81601**
Stddev	.0178	.00033	.00362	.0276	.00063
%RSD	1.1685	.94021	.49451	12.68	.07760
#1	1.5352	.03497	.72876	.2373	.81646
#2	1.5100	.03544	.73387	.1983	.81557
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181224-A-1-B Acquired: 2/19/2021 14:38:51 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00050**	**.24435**	**.52535**	**.0289**
Stddev	.00157	.00050	.00039	.0002
%RSD	311.97	.20332	.07447	.5758
#1	-.00061	.24470	.52563	.0288
#2	.00161	.24400	.52508	.0290
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4152.0**	**4281.6**	**69581.**	**3099.7**
Stddev	7.8	6.7	107.	6.9
%RSD	.18905	.15693	.15382	.22272
#1	4146.5	4276.9	69657.	3104.6
#2	4157.6	4286.4	69506.	3094.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.558%	104.46%	103.94%	111.31%
Range				

Sample Name: 480-181249-C-1-A Acquired: 2/19/2021 14:42:36 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00066**	**29.643**	**.00662**	**.01075**	**.10815**
Stddev	.00001	.024	.00281	.00006	.00034
%RSD	1.3450	.08012	42.406	.54252	.31005
#1	.00065	29.660	.00860	.01079	.10839
#2	.00066	29.626	.00463	.01070	.10792
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00167**	**24.499**	**.00024**	**.4200**	**.02199**
Stddev	.00008	.079	.00001	.0239	.00013
%RSD	4.8739	.32345	5.6502	5.699	.57847
#1	.00161	24.443	.00023	.4031	.02208
#2	.00172	24.555	.00025	.4369	.02190
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03596**	**.01522**	**58.239**	**3.5332**	**.02975**
Stddev	.00004	.00032	.069	.0260	.00185
%RSD	.10108	2.1081	.11810	.73579	6.2297
#1	.03599	.01499	58.190	3.5516	.03106
#2	.03594	.01544	58.287	3.5148	.02844
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181249-C-1-A Acquired: 2/19/2021 14:42:36 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.207**	**.45206**	**.00126**	**2.4363**	**.02857**
Stddev	.027	.00264	.00007	.0068	.00004
%RSD	.26180	.58322	5.7077	.27847	.13511
#1	10.188	.45020	.00131	2.4315	.02854
#2	10.226	.45393	.00121	2.4411	.02860
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.021**	**.00923**	**.3826**	**-.00302**	**-.00228**
Stddev	.005	.00135	.0010	.00067	.00037
%RSD	.0695	14.607	.2710	22.372	16.215
#1	7.018	.00827	.3833	-.00349	-.00202
#2	7.025	.01018	.3818	-.00254	-.00255
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.5382**	**.03778**	**.07420**	**.0889**	**3.5202**
Stddev	.0012	.00017	.00039	.0139	.0058
%RSD	.02732	.46213	.53150	15.68	.16571
#1	4.5391	.03790	.07448	.0988	3.5244
#2	4.5374	.03766	.07392	.0790	3.5161
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181249-C-1-A Acquired: 2/19/2021 14:42:36 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00156**	**.10441**	**.12122**	**.0136**
Stddev	.00040	.00006	.00142	.0010
%RSD	25.743	.06220	1.1680	7.594
#1	-.00128	.10445	.12022	.0128
#2	-.00184	.10436	.12222	.0143
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4347.1**	**4540.4**	**74828.**	**3224.5**
Stddev	1.4	.4	214.	1.0
%RSD	.03272	.00838	.28550	.03251
#1	4346.1	4540.2	74979.	3223.8
#2	4348.1	4540.7	74677.	3225.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.719%	110.78%	111.78%	115.80%
Range				

Sample Name: 480-181249-B-2-A Acquired: 2/19/2021 14:46:20 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00074**	**171.57**	**.03358**	**.10991**	**1.3703**
Stddev	.00007	.45	.00232	.00019	.0019
%RSD	9.7179	.26207	6.9117	.17280	.13630
#1	.00069	171.89	.03522	.10977	1.3716
#2	.00079	171.25	.03194	.11004	1.3690
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00759**	**296.42**	**.00118**	**.5449**	**.11503**
Stddev	.00005	.63	.00008	.0071	.00014
%RSD	.59863	.21413	6.6186	1.307	.11875
#1	.00762	296.87	.00113	.5499	.11493
#2	.00755	295.97	.00124	.5399	.11512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.25876**	**.18011**	**203.43**	**43.463**	**.21438**
Stddev	.00109	.00008	.26	.058	.00078
%RSD	.42013	.04403	.12734	.13418	.36464
#1	.25800	.18017	203.61	43.505	.21493
#2	.25953	.18006	203.25	43.422	.21382
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181249-B-2-A Acquired: 2/19/2021 14:46:20 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**88.858**	**4.3392**	**.00092**	**5.6611**	**.29883**
Stddev	.104	.0062	.00010	.0170	.00084
%RSD	.11755	.14221	10.520	.29954	.28221
#1	88.784	4.3436	.00099	5.6731	.29943
#2	88.932	4.3349	.00086	5.6491	.29824
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.153**	**.09776**	**3.389**	**-.00775**	**.00038**
Stddev	.011	.00002	.008	.00310	.00155
%RSD	.2520	.01829	.2383	40.043	412.09
#1	4.160	.09775	3.395	-.00994	.00147
#2	4.145	.09777	3.383	-.00555	-.00072
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.506**	**.03852**	**1.7764**	**.2914**	**5.0441**
Stddev	.382	.00028	.0019	.0066	.0105
%RSD	1.3889	.71799	.10966	2.268	.20799
#1	27.776	.03833	1.7778	.2960	5.0515
#2	27.236	.03872	1.7750	.2867	5.0366
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181249-B-2-A Acquired: 2/19/2021 14:46:20 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00101**	**.30128**	**.47573**	**.1406**
Stddev	.00073	.00018	.00174	.0027
%RSD	71.708	.06121	.36560	1.888
#1	-.00050	.30141	.47450	.1425
#2	-.00153	.30115	.47696	.1388
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3768.0**	**4321.9**	**69930.**	**3235.1**
Stddev	3.1	8.7	128.	1.7
%RSD	.08140	.20060	.18232	.05193
#1	3770.1	4328.1	69840.	3233.9
#2	3765.8	4315.8	70020.	3236.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.366%	105.45%	104.46%	116.18%
Range				

Sample Name: 480-181249-C-3-A Acquired: 2/19/2021 14:50:15 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**31.955**	**.00850**	**.01444**	**.14808**
Stddev	.00125	.048	.00001	.00037	.00060
%RSD	359.91	.15056	.16431	2.5915	.40729
#1	-.00054	31.989	.00849	.01417	.14851
#2	.00123	31.921	.00851	.01470	.14766
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00163**	**23.352**	**.00018**	**.3293**	**.01732**
Stddev	.00001	.041	.00008	.0073	.00002
%RSD	.33906	.17600	42.817	2.209	.11940
#1	.00164	23.381	.00013	.3242	.01734
#2	.00163	23.323	.00024	.3345	.01731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03603**	**.00989**	**46.606**	**3.1705**	**.03660**
Stddev	.00020	.00001	.068	.0064	.00044
%RSD	.56425	.06336	.14494	.20144	1.2135
#1	.03618	.00989	46.559	3.1659	.03691
#2	.03589	.00988	46.654	3.1750	.03628
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181249-C-3-A Acquired: 2/19/2021 14:50:15 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5958**	**.46704**	**.00001**	**1.9370**	**.02618**
Stddev	.0183	.00280	.00011	.0045	.00017
%RSD	.19064	.60038	874.51	.23425	.63292
#1	9.5828	.46903	-.00007	1.9402	.02606
#2	9.6087	.46506	.00009	1.9338	.02630
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.098**	**.01178**	**.7617**	**-.00003**	**-.00153**
Stddev	.004	.00083	.0030	.00237	.00093
%RSD	.0669	7.0129	.3876	8259.5	60.582
#1	6.101	.01236	.7596	.00165	-.00087
#2	6.095	.01119	.7638	-.00171	-.00218
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.3078**	**.03593**	**.06867**	**.0738**	**3.1032**
Stddev	.0210	.00011	.00023	.0015	.0028
%RSD	.39655	.30681	.33125	1.968	.09014
#1	5.2929	.03601	.06883	.0749	3.1052
#2	5.3227	.03585	.06851	.0728	3.1013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181249-C-3-A Acquired: 2/19/2021 14:50:15 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00157**	**.08643**	**.11288**	**.0157**
Stddev	.00016	.00011	.00027	.0018
%RSD	10.118	.12218	.23495	11.25
#1	-.00145	.08650	.11307	.0144
#2	-.00168	.08635	.11270	.0169
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4408.7**	**4511.6**	**74191.**	**3199.8**
Stddev	.9	3.5	166.	7.0
%RSD	.02037	.07692	.22368	.21847
#1	4408.1	4514.0	74073.	3204.7
#2	4409.4	4509.1	74308.	3194.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.033%	110.07%	110.83%	114.91%
Range				

Sample Name: 480-181249-C-3-ASD@5 Acquired: 2/19/2021 14:53:59 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**6.8330**	**.00162**	**.00268**	**.03258**
Stddev	.00031	.0154	.00109	.00027	.00003
%RSD	299.76	.22575	67.451	10.140	.10451
#1	-.00012	6.8221	.00239	.00249	.03256
#2	.00032	6.8440	.00085	.00287	.03260
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**5.0654**	**-.00013**	**.1009**	**.00343**
Stddev	.00006	.0043	.00008	.0087	.00006
%RSD	21.568	.08423	64.686	8.632	1.6796
#1	.00025	5.0623	-.00018	.0947	.00339
#2	.00034	5.0684	-.00007	.1070	.00347
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00794**	**.00121**	**10.171**	**.62776**	**.00879**
Stddev	.00001	.00028	.025	.03013	.00227
%RSD	.17655	23.161	.24933	4.8002	25.810
#1	.00793	.00141	10.153	.60645	.01039
#2	.00795	.00101	10.189	.64907	.00719
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181249-C-3-ASD@5 Acquired: 2/19/2021 14:53:59 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.1136**	**.10037**	**-.00064**	**.35989**	**.00512**
Stddev	.0117	.00015	.00015	.01043	.00032
%RSD	.55275	.15411	22.779	2.8994	6.2953
#1	2.1053	.10048	-.00074	.36727	.00490
#2	2.1218	.10026	-.00054	.35251	.00535
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.258**	**.00220**	**.1638**	**-.00022**	**-.00221**
Stddev	.022	.00006	.0049	.00152	.00240
%RSD	1.784	2.8054	2.977	696.79	108.61
#1	1.242	.00224	.1603	.00086	-.00391
#2	1.273	.00215	.1672	-.00129	-.00051
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1455**	**.00778**	**.01462**	**.0191**	**.66603**
Stddev	.0334	.00012	.00004	.0022	.00032
%RSD	2.9183	1.5802	.25761	11.64	.04781
#1	1.1691	.00770	.01460	.0176	.66581
#2	1.1218	.00787	.01465	.0207	.66626
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181249-C-3-ASD@5 Acquired: 2/19/2021 14:53:59 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00015**	**.01877**	**.02493**	**.0038**
Stddev	.00021	.00000	.00005	.0014
%RSD	143.83	.01244	.20488	36.75
#1	-.00000	.01877	.02489	.0048
#2	.00029	.01877	.02496	.0028
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4581.6**	**4190.5**	**69322.**	**2942.4**
Stddev	6.3	5.0	11.	6.2
%RSD	.13655	.12005	.01537	.21093
#1	4577.2	4186.9	69330.	2938.0
#2	4586.0	4194.1	69315.	2946.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.720%	102.24%	103.55%	105.67%
Range				

Sample Name: 480-181249-C-3-APDS Acquired: 2/19/2021 14:57:47 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08753**	**47.742**	**.37762**	**.36575**	**.51039**
Stddev	.00020	.299	.00336	.00011	.00064
%RSD	.22479	.62703	.89020	.03085	.12624
#1	.08739	47.954	.37525	.36567	.51085
#2	.08767	47.530	.38000	.36583	.50993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.38110**	**40.214**	**.36433**	**.3505**	**.41256**
Stddev	.00209	.192	.00058	.0516	.00061
%RSD	.54789	.47855	.15960	14.72	.14809
#1	.38258	40.350	.36474	.3870	.41299
#2	.37963	40.078	.36392	.3140	.41212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.38370**	**.37901**	**61.300**	**20.826**	**.37430**
Stddev	.00061	.00074	.497	.090	.00150
%RSD	.15940	.19554	.81017	.43081	.40154
#1	.38326	.37848	61.651	20.890	.37536
#2	.38413	.37953	60.949	20.763	.37323
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181249-C-3-APDS Acquired: 2/19/2021 14:57:47 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.842**	**.79228**	**.37662**	**19.232**	**.41914**
Stddev	.011	.00156	.00103	.082	.00062
%RSD	.04009	.19663	.27269	.42843	.14875
#1	26.835	.79118	.37589	19.290	.41958
#2	26.850	.79339	.37735	19.174	.41870
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.508**	**.41500**	**.7274**	**.35843**	**.36421**
Stddev	.009	.00044	.0033	.00126	.00065
%RSD	.1885	.10701	.4475	.35092	.17739
#1	4.514	.41468	.7297	.35754	.36375
#2	4.502	.41531	.7251	.35932	.36466
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.2438**	**.42575**	**.42342**	**.0961**	**3.3624**
Stddev	.0192	.00042	.00110	.0037	.0014
%RSD	.36694	.09920	.25918	3.875	.04025
#1	5.2574	.42545	.42419	.0987	3.3633
#2	5.2302	.42605	.42264	.0934	3.3614
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181249-C-3-APDS Acquired: 2/19/2021 14:57:47 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.40014**	**.43990**	**.45973**	**.0160**
Stddev	.00025	.00026	.00117	.0014
%RSD	.06245	.05903	.25464	8.465
#1	.40032	.43972	.45890	.0170
#2	.39997	.44008	.46055	.0151
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4161.8**	**4362.3**	**71352.**	**3101.2**
Stddev	3.7	2.7	46.	14.6
%RSD	.08969	.06118	.06406	.47005
#1	4159.2	4364.2	71385.	3090.9
#2	4164.4	4360.4	71320.	3111.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.766%	106.43%	106.59%	111.37%
Range				

Sample Name: 480-181249-C-3-B MS Acquired: 2/19/2021 15:01:29 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08460**	**75.047**	**.35667**	**.35770**	**.56067**
Stddev	.00063	.172	.00093	.00010	.00033
%RSD	.73938	.22943	.26107	.02907	.05948
#1	.08415	74.925	.35602	.35778	.56043
#2	.08504	75.169	.35733	.35763	.56090
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.35403**	**53.120**	**.34727**	**.3246**	**.41566**
Stddev	.00160	.168	.00024	.0162	.00025
%RSD	.45094	.31712	.06984	4.998	.06110
#1	.35290	53.001	.34744	.3361	.41584
#2	.35516	53.239	.34710	.3131	.41548
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.38443**	**.36122**	**78.500**	**24.530**	**.37398**
Stddev	.00068	.00077	.243	.083	.00041
%RSD	.17598	.21187	.30933	.33765	.11070
#1	.38395	.36176	78.672	24.472	.37369
#2	.38491	.36068	78.328	24.589	.37428
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181249-C-3-B MS Acquired: 2/19/2021 15:01:29 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**31.359**	**1.1167**	**.35463**	**23.504**	**.42166**
Stddev	.047	.0040	.00116	.015	.00036
%RSD	.14970	.36274	.32751	.06175	.08479
#1	31.392	1.1139	.35381	23.494	.42191
#2	31.326	1.1196	.35546	23.514	.42141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.954**	**.41115**	**17.46**	**.30781**	**.34755**
Stddev	.014	.00023	.01	.00263	.00156
%RSD	.3493	.05517	.0443	.85543	.44804
#1	3.964	.41131	17.47	.30595	.34865
#2	3.944	.41099	17.45	.30967	.34645
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.022**	**.44035**	**.49433**	**.1091**	**5.3997**
Stddev	.110	.00089	.00124	.0001	.0041
%RSD	.57710	.20129	.25081	.0936	.07648
#1	18.944	.43972	.49346	.1090	5.4027
#2	19.099	.44098	.49521	.1091	5.3968
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181249-C-3-B MS Acquired: 2/19/2021 15:01:29 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.39651**	**.46483**	**.48345**	**.0918**
Stddev	.00035	.00017	.00202	.0036
%RSD	.08923	.03638	.41728	3.878
#1	.39626	.46495	.48488	.0943
#2	.39676	.46471	.48203	.0893
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4137.2**	**4572.8**	**74064.**	**3240.0**
Stddev	3.9	8.6	29.	12.2
%RSD	.09395	.18713	.03889	.37678
#1	4140.0	4578.8	74043.	3231.4
#2	4134.5	4566.7	74084.	3248.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.242%	111.57%	110.64%	116.35%
Range				

Sample Name: CCV-6339745 Acquired: 2/19/2021 15:05:11 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99729**	**50.829**	**1.0304**	**1.0549**	**1.0223**	**1.0328**	**51.600**	**1.0380**
Stddev	.00213	.311	.0017	.0000	.0031	.0009	.028	.0014
%RSD	.21339	.61210	.16384	.00133	.30458	.08663	.05473	.13243
#1	.99579	50.609	1.0316	1.0549	1.0201	1.0322	51.580	1.0390
#2	.99880	51.049	1.0292	1.0549	1.0245	1.0334	51.620	1.0370
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9996**	**1.0268**	**1.0195**	**1.0338**	**50.350**	**50.783**	**.97870**	**51.011**
Stddev	.0168	.0008	.0007	.0001	.049	.027	.00182	.116
%RSD	1.684	.08320	.06452	.00514	.09650	.05232	.18556	.22834
#1	.9877	1.0274	1.0200	1.0338	50.384	50.801	.97998	51.093
#2	1.012	1.0262	1.0191	1.0337	50.315	50.764	.97741	50.929
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0048**	**1.0532**	**50.242**	**1.0303**	**26.26**	**1.0338**	**26.03**	**1.0307**
Stddev	.0010	.0026	.093	.0018	.07	.0031	.07	.0019
%RSD	.09904	.24852	.18582	.17138	.2667	.30061	.2585	.18922
#1	1.0041	1.0513	50.176	1.0316	26.31	1.0360	26.08	1.0321
#2	1.0055	1.0550	50.308	1.0291	26.21	1.0316	25.98	1.0293
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6339745 Acquired: 2/19/2021 15:05:11 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0398**	**10.032**	**1.0264**	**1.0201**	**1.027**	**1.0319**	**1.0433**	**1.0254**
Stddev	.0012	.016	.0004	.0025	.017	.0019	.0009	.0008
%RSD	.11709	.16195	.03480	.24870	1.649	.17913	.08828	.08195
#1	1.0407	10.043	1.0261	1.0183	1.039	1.0332	1.0440	1.0259
#2	1.0389	10.020	1.0267	1.0219	1.015	1.0306	1.0427	1.0248
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**1.0219**	**.9870**
Stddev	.0029	.0040
%RSD	.28822	.4062
#1	1.0240	.9898
#2	1.0199	.9842
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4100.5**	**3966.2**	**63974.**	**2833.3**
Stddev	4.0	4.1	52.	7.0
%RSD	.09790	.10332	.08084	.24583
#1	4103.3	3969.1	63937.	2838.2
#2	4097.6	3963.4	64010.	2828.3

Sample Name: CCB-6338400 Acquired: 2/19/2021 15:08:50 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**-.01728**	**.00024**	**.00009**	**-.00009**	**-.00012**	**-.00717**	**-.00013**
Stddev	.00036	.00464	.00241	.00005	.00002	.00003	.00173	.00007
%RSD	84.640	26.864	996.52	56.137	18.228	23.148	24.141	51.215
#1	-.00017	-.02057	.00195	.00013	-.00010	-.00014	-.00595	-.00008
#2	-.00068	-.01400	-.00146	.00006	-.00008	-.00010	-.00840	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0029**	**-.00015**	**-.00005**	**-.00012**	**-.00346**	**-.00039**	**-.00010**	**-.00179**
Stddev	.0529	.00006	.00005	.00005	.00545	.02135	.00194	.00227
%RSD	1798.	40.887	94.622	37.469	157.32	5435.9	2009.0	126.65
#1	.0345	-.00020	-.00008	-.00016	-.00732	.01470	-.00147	-.00019
#2	-.0404	-.00011	-.00002	-.00009	.00039	-.01549	.00128	-.00340
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.00136**	**-.05412**	**-.00002**	**-.0026**	**-.00039**	**-.0083**	**.00066**
Stddev	.00000	.00069	.00573	.00031	.0004	.00046	.0010	.00079
%RSD	3.2765	51.083	10.591	1695.3	17.02	117.41	11.96	119.63
#1	-.00014	.00185	-.05007	.00020	-.0023	-.00071	-.0076	.00010
#2	-.00014	.00087	-.05817	-.00024	-.0029	-.00007	-.0090	.00122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6338400 Acquired: 2/19/2021 15:08:50 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00057**	**.01643**	**.00007**	**-.00022**	**-.0070**	**.00016**	**-.00030**	**-.00017**
Stddev	.00151	.01130	.00054	.00005	.0102	.00015	.00147	.00023
%RSD	266.25	68.821	733.13	21.252	145.8	93.820	489.41	130.32
#1	.00050	.02442	.00045	-.00025	.0002	.00027	.00074	-.00034
#2	-.00163	.00843	-.00031	-.00018	-.0142	.00005	-.00134	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**-.00008**	**-.0018**
Stddev	.00012	.0025
%RSD	139.16	141.2
#1	-.00017	-.0000
#2	-.00000	-.0035
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4598.6**	**4035.0**	**66376.**	**2759.2**
Stddev	7.4	9.4	31.	3.6
%RSD	.16160	.23391	.04733	.12895
#1	4603.9	4041.7	66354.	2756.6
#2	4593.4	4028.3	66399.	2761.7

Sample Name: CCVL-6339744 Acquired: 2/19/2021 15:12:43 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00597**	**.16583**	**.01520**	**.01820**	**.00189**	**.00189**	**.49566**	**.00187**
Stddev	.00044	.01459	.00029	.00011	.00001	.00003	.00525	.00006
%RSD	7.4181	8.7980	1.9267	.59133	.43211	1.7056	1.0592	2.9920
#1	.00628	.17614	.01541	.01813	.00189	.00191	.49194	.00183
#2	.00566	.15551	.01500	.01828	.00190	.00187	.49937	.00191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0357**	**.00342**	**.00390**	**.00880**	**.04195**	**.40673**	**.02569**	**.19576**
Stddev	.0076	.00025	.00024	.00026	.00039	.00127	.00011	.00105
%RSD	21.43	7.2502	6.0689	2.9228	.92367	.31339	.42143	.53832
#1	.0303	.00360	.00406	.00898	.04223	.40763	.02577	.19502
#2	.0411	.00325	.00373	.00862	.04168	.40583	.02561	.19651
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00276**	**.00941**	**.85899**	**.00943**	**-.0394**	**.00844**	**.1769**	**.01918**
Stddev	.00002	.00005	.00228	.00008	.0020	.00038	.0020	.00065
%RSD	.70978	.57221	.26546	.85882	5.184	4.5326	1.143	3.4133
#1	.00275	.00937	.85738	.00937	-.0379	.00817	.1784	.01872
#2	.00277	.00944	.86060	.00949	-.0408	.00871	.1755	.01964
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVL-6339744 Acquired: 2/19/2021 15:12:43 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02213	.45050	.00968	.00459	-.0076	.00420	.01898	.00447
Stddev	.00129	.00320	.00004	.00009	.0040	.00005	.00094	.00022
%RSD	5.8422	.70942	.36521	2.0022	52.02	1.1193	4.9432	4.8984
#1	.02304	.44824	.00971	.00453	-.0104	.00416	.01964	.00431
#2	.02121	.45276	.00966	.00466	-.0048	.00423	.01831	.00462
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.00935	-.0004
Stddev	.00027	.0014
%RSD	2.8684	375.3
#1	.00954	-.0014
#2	.00916	.0006
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4644.8	4087.4	66979.	2764.5
Stddev	2.1	7.0	102.	3.2
%RSD	.04501	.17130	.15277	.11626
#1	4646.2	4092.3	66907.	2766.8
#2	4643.3	4082.4	67051.	2762.2

Sample Name: 480-181249-C-3-C MSD Acquired: 2/19/2021 15:16:34 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08532**	**97.413**	**.36638**	**.38205**	**.72142**
Stddev	.00010	.270	.00263	.00004	.00100
%RSD	.11552	.27677	.71816	.01001	.13831
#1	.08539	97.603	.36824	.38207	.72213
#2	.08525	97.222	.36452	.38202	.72072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.36108**	**54.215**	**.35112**	**.3648**	**.42439**
Stddev	.00081	.065	.00025	.0267	.00063
%RSD	.22544	.12055	.07134	7.319	.14827
#1	.36165	54.261	.35130	.3837	.42394
#2	.36050	54.168	.35095	.3459	.42483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.42178**	**.37436**	**98.202**	**31.734**	**.38946**
Stddev	.00053	.00015	.422	.029	.00132
%RSD	.12595	.03916	.43017	.09275	.33995
#1	.42216	.37425	98.501	31.754	.38853
#2	.42140	.37446	97.903	31.713	.39040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181249-C-3-C MSD Acquired: 2/19/2021 15:16:34 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**35.936**	**1.2784**	**.35960**	**23.598**	**.43865**
Stddev	.087	.0005	.00034	.030	.00043
%RSD	.24090	.03830	.09552	.12544	.09807
#1	35.997	1.2788	.35984	23.619	.43835
#2	35.875	1.2781	.35935	23.577	.43896
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.757**	**.42288**	**17.79**	**.29469**	**.35023**
Stddev	.004	.00109	.03	.00083	.00251
%RSD	.0925	.25698	.1406	.28195	.71726
#1	3.754	.42211	17.77	.29528	.35201
#2	3.759	.42365	17.81	.29411	.34846
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.724**	**.43793**	**.50883**	**.1448**	**6.0371**
Stddev	.110	.00014	.00007	.0064	.0007
%RSD	.69891	.03101	.01300	4.434	.01123
#1	15.801	.43784	.50888	.1402	6.0366
#2	15.646	.43803	.50878	.1493	6.0376
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181249-C-3-C MSD Acquired: 2/19/2021 15:16:34 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.39809**	**.51431**	**.52531**	**.0928**
Stddev	.00084	.00110	.00099	.0003
%RSD	.21083	.21416	.18820	.3656
#1	.39868	.51353	.52601	.0926
#2	.39750	.51509	.52461	.0931
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4075.3**	**4490.0**	**72274.**	**3169.7**
Stddev	2.6	1.6	163.	6.7
%RSD	.06274	.03620	.22510	.21083
#1	4077.1	4488.9	72159.	3165.0
#2	4073.5	4491.2	72389.	3174.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.921%	109.55%	107.96%	113.83%
Range				

Sample Name: 480-181249-C-4-A Acquired: 2/19/2021 15:20:11 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00121**	**72.211**	**.01013**	**.03701**	**.43992**
Stddev	.00032	.452	.00160	.00044	.00334
%RSD	26.415	.62597	15.753	1.1983	.75862
#1	.00098	72.531	.01126	.03669	.44228
#2	.00143	71.891	.00900	.03732	.43756
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00370**	**24.788**	**.00022**	**.4050**	**.04166**
Stddev	.00008	.090	.00008	.0001	.00013
%RSD	2.0712	.36172	34.820	.0170	.30274
#1	.00376	24.852	.00028	.4050	.04158
#2	.00365	24.725	.00017	.4049	.04175
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09571**	**.05192**	**103.46**	**13.412**	**.06399**
Stddev	.00007	.00014	.86	.002	.00102
%RSD	.06891	.27776	.82786	.01415	1.5984
#1	.09576	.05203	104.06	13.414	.06472
#2	.09566	.05182	102.85	13.411	.06327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181249-C-4-A Acquired: 2/19/2021 15:20:11 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.553**	**.75529**	**.00096**	**2.9129**	**.08563**
Stddev	.024	.00649	.00013	.0113	.00019
%RSD	.10543	.85884	14.059	.38730	.22317
#1	22.536	.75988	.00105	2.9209	.08577
#2	22.570	.75070	.00086	2.9049	.08550
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.598**	**.02640**	**.1816**	**-.00365**	**-.00211**
Stddev	.014	.00093	.0044	.00167	.00112
%RSD	.2449	3.5315	2.397	45.826	53.260
#1	5.607	.02706	.1785	-.00247	-.00291
#2	5.588	.02574	.1847	-.00483	-.00132
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.3037**	**.03761**	**.10903**	**.1511**	**4.1851**
Stddev	.0360	.00012	.00062	.0101	.0047
%RSD	.57039	.30668	.56714	6.673	.11204
#1	6.3292	.03753	.10947	.1439	4.1884
#2	6.2783	.03769	.10859	.1582	4.1818
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181249-C-4-A Acquired: 2/19/2021 15:20:11 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00113**	**.19032**	**.22885**	**.0456**
Stddev	.00030	.00053	.00181	.0003
%RSD	26.397	.28000	.78992	.6559
#1	-.00134	.19070	.23012	.0454
#2	-.00092	.18995	.22757	.0458
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4213.7**	**4513.3**	**73244.**	**3161.8**
Stddev	11.6	15.7	249.	9.8
%RSD	.27620	.34736	.34039	.30906
#1	4221.9	4524.4	73068.	3154.9
#2	4205.5	4502.2	73421.	3168.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.873%	110.12%	109.41%	113.55%
Range				

Sample Name: 480-181249-C-6-A Acquired: 2/19/2021 15:23:55 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**34.523**	**.00769**	**.01240**	**.16175**
Stddev	.00015	.113	.00149	.00044	.00002
%RSD	25.890	.32776	19.418	3.5234	.01054
#1	.00069	34.603	.00663	.01271	.16176
#2	.00048	34.443	.00875	.01209	.16174
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00197**	**21.192**	**.00028**	**.3564**	**.02163**
Stddev	.00002	.044	.00014	.0107	.00017
%RSD	.88237	.20919	51.765	2.996	.80486
#1	.00198	21.224	.00038	.3639	.02175
#2	.00196	21.161	.00018	.3488	.02150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03984**	**.02010**	**59.136**	**4.7066**	**.03643**
Stddev	.00015	.00041	.248	.0116	.00259
%RSD	.38656	2.0449	.42004	.24548	7.1084
#1	.03995	.01981	59.312	4.7148	.03826
#2	.03974	.02039	58.961	4.6984	.03459
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181249-C-6-A Acquired: 2/19/2021 15:23:55 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.686**	**.41071**	**.00016**	**2.3260**	**.03239**
Stddev	.015	.00038	.00006	.0114	.00026
%RSD	.11495	.09138	37.118	.48797	.80926
#1	12.696	.41097	.00012	2.3340	.03258
#2	12.675	.41044	.00020	2.3180	.03221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.757**	**.00884**	**.2078**	**-.00119**	**-.00171**
Stddev	.001	.00006	.0032	.00187	.00421
%RSD	.0171	.69591	1.556	156.64	246.43
#1	5.758	.00879	.2101	-.00252	.00127
#2	5.756	.00888	.2055	.00013	-.00469
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.9411**	**.03677**	**.07158**	**.0746**	**3.7519**
Stddev	.0046	.00003	.00041	.0209	.0067
%RSD	.11644	.08864	.57565	28.08	.17833
#1	3.9379	.03675	.07187	.0894	3.7567
#2	3.9444	.03680	.07128	.0598	3.7472
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181249-C-6-A Acquired: 2/19/2021 15:23:55 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00105**	**.11815**	**.15136**	**.0156**
Stddev	.00097	.00037	.00010	.0024
%RSD	92.877	.31632	.06725	15.48
#1	-.00174	.11842	.15143	.0139
#2	-.00036	.11789	.15128	.0173
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4340.5**	**4471.6**	**73229.**	**3116.1**
Stddev	4.4	.9	8.	6.3
%RSD	.10205	.01960	.01121	.20281
#1	4337.3	4472.2	73223.	3111.6
#2	4343.6	4471.0	73235.	3120.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.577%	109.10%	109.39%	111.90%
Range				

Sample Name: 480-181292-C-1-A Acquired: 2/19/2021 15:27:34 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**28.992**	**.04638**	**2.4659**	**1.1262**
Stddev	.00010	.030	.00038	.0019	.0022
%RSD	43.690	.10246	.81805	.07663	.19725
#1	.00029	28.971	.04611	2.4646	1.1277
#2	.00015	29.013	.04665	2.4673	1.1246
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00110**	**54.862**	**.00197**	**.1232**	**.01208**
Stddev	.00010	.134	.00013	.0033	.00012
%RSD	9.4195	.24424	6.4086	2.713	.97986
#1	.00103	54.768	.00188	.1256	.01199
#2	.00117	54.957	.00205	.1209	.01216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06186**	**.12256**	**31.667**	**12.549**	**.02324**
Stddev	.00015	.00020	.003	.027	.00166
%RSD	.24043	.15985	.00800	.21541	7.1233
#1	.06196	.12270	31.669	12.568	.02441
#2	.06175	.12242	31.665	12.530	.02207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181292-C-1-A Acquired: 2/19/2021 15:27:34 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.569**	**1.1498**	**.00390**	**12.106**	**.03578**
Stddev	.036	.0050	.00002	.008	.00022
%RSD	.22929	.43380	.39133	.06844	.62291
#1	15.544	1.1534	.00389	12.112	.03562
#2	15.595	1.1463	.00391	12.100	.03594
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.60**	**.14205**	**8.530**	**2.1881**	**-.00203**
Stddev	.03	.00074	.005	.0029	.00074
%RSD	.2691	.52117	.0579	.13034	36.308
#1	11.58	.14257	8.527	2.1901	-.00255
#2	11.62	.14153	8.534	2.1861	-.00151
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.2946**	**.11655**	**.16323**	**.0339**	**5.2153**
Stddev	.0349	.00119	.00001	.0191	.0638
%RSD	.42045	1.0188	.00413	56.39	1.2240
#1	8.3193	.11571	.16323	.0474	5.2605
#2	8.2700	.11739	.16323	.0204	5.1702
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181292-C-1-A Acquired: 2/19/2021 15:27:34 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.05122**	**.57373**	**.0395**
Stddev	.00054	.00013	.00558	.0018
%RSD	165.57	.26247	.97245	4.500
#1	.00006	.05112	.57768	.0408
#2	-.00070	.05131	.56979	.0383
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4307.3**	**4174.9**	**68209.**	**2927.2**
Stddev	9.8	14.0	547.	10.1
%RSD	.22815	.33623	.80242	.34543
#1	4300.3	4164.9	67822.	2934.3
#2	4314.2	4184.8	68596.	2920.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.869%	101.86%	101.89%	105.12%
Range				

Sample Name: MB 480-570015/1-A Acquired: 2/19/2021 15:31:17 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**-.03392**	**.00035**	**.00090**	**-.00010**
Stddev	.00042	.02443	.00172	.00050	.00002
%RSD	217.07	72.017	483.97	55.719	18.455
#1	.00049	-.05119	-.00086	.00126	-.00011
#2	-.00010	-.01664	.00157	.00055	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**-.00187**	**-.00020**	**.0791**	**-.00009**
Stddev	.00010	.00365	.00001	.0069	.00002
%RSD	93.079	195.04	5.3731	8.744	23.899
#1	-.00018	.00071	-.00019	.0840	-.00011
#2	-.00004	-.00445	-.00021	.0742	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**-.00025**	**.00203**	**-.08401**	**.00085**
Stddev	.00013	.00081	.00092	.02560	.00102
%RSD	131.04	327.54	45.342	30.479	119.97
#1	-.00019	-.00082	.00138	-.06590	.00013
#2	-.00001	.00032	.00268	-.10211	.00158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-570015/1-A Acquired: 2/19/2021 15:31:17 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00131**	**.00134**	**-.00098**	**-.07085**	**-.00006**
Stddev	.00024	.00001	.00001	.00327	.00004
%RSD	17.904	.93190	1.2440	4.6104	71.155
#1	-.00148	.00133	-.00097	-.06854	-.00009
#2	-.00115	.00135	-.00099	-.07316	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.0003**	**.00007**	**-.0025**	**.00428**	**-.00086**
Stddev	.0031	.00021	.0008	.00003	.00168
%RSD	1178.	300.97	32.66	.72321	195.89
#1	-.0024	-.00008	-.0030	.00431	.00033
#2	.0019	.00022	-.0019	.00426	-.00204
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01187**	**.00015**	**-.00030**	**-.0179**	**.00056**
Stddev	.00379	.00083	.00019	.0136	.00018
%RSD	31.947	560.34	63.770	75.58	32.698
#1	-.00919	.00074	-.00044	-.0083	.00043
#2	-.01455	-.00044	-.00016	-.0275	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-570015/1-A Acquired: 2/19/2021 15:31:17 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00008**	**-.00016**	**.00009**	**-.0009**
Stddev	.00023	.00027	.00016	.0006
%RSD	268.65	175.80	178.87	65.57
#1	.00008	.00004	.00020	-.0013
#2	-.00025	-.00035	-.00002	-.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4754.4**	**4198.5**	**69435.**	**2923.8**
Stddev	.8	.6	54.	9.6
%RSD	.01723	.01487	.07761	.32962
#1	4753.8	4198.0	69473.	2930.6
#2	4755.0	4198.9	69396.	2917.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.41%	102.43%	103.72%	105.00%
Range				

Sample Name: LCS 480-570015/2-A Acquired: 2/19/2021 15:35:05 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04754**	**9.8040**	**.20530**	**.20077**	**.21523**
Stddev	.00012	.0126	.00203	.00026	.00032
%RSD	.24532	.12890	.98752	.13151	.14792
#1	.04746	9.8129	.20387	.20059	.21545
#2	.04762	9.7950	.20673	.20096	.21500
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20927**	**9.9919**	**.20243**	**.0128**	**.19473**
Stddev	.00037	.0305	.00025	.0023	.00012
%RSD	.17527	.30512	.12492	18.06	.06071
#1	.20952	10.013	.20225	.0112	.19464
#2	.20901	9.9703	.20260	.0144	.19481
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19344**	**.20366**	**9.5080**	**9.6799**	**.18775**
Stddev	.00068	.00104	.1017	.0173	.00235
%RSD	.35059	.51159	1.0694	.17903	1.2512
#1	.19392	.20293	9.5799	9.6922	.18941
#2	.19296	.20440	9.4361	9.6677	.18609
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-570015/2-A Acquired: 2/19/2021 15:35:05 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7588**	**.19623**	**.20748**	**9.5670**	**.19345**
Stddev	.0288	.00194	.00054	.0485	.00019
%RSD	.29491	.98887	.26245	.50652	.09704
#1	9.7385	.19760	.20710	9.6013	.19332
#2	9.7792	.19485	.20787	9.5328	.19359
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.7122**	**.20013**	**10.06**	**.20034**	**.19995**
Stddev	.0005	.00193	.01	.00130	.00096
%RSD	.0734	.96235	.1314	.65100	.48160
#1	-.7118	.19876	10.05	.20127	.19927
#2	-.7126	.20149	10.07	.19942	.20063
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.3446**	**.19434**	**.20112**	**-.0054**	**.20140**
Stddev	.0238	.00113	.00127	.0029	.00088
%RSD	.25482	.58298	.62969	52.84	.43705
#1	9.3277	.19354	.20202	-.0034	.20078
#2	9.3614	.19514	.20023	-.0074	.20203
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-570015/2-A Acquired: 2/19/2021 15:35:05 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.20137**	**.19655**	**.19567**	**.0121**
Stddev	.00031	.00045	.00232	.0021
%RSD	.15187	.22939	1.1839	17.13
#1	.20116	.19687	.19731	.0106
#2	.20159	.19623	.19404	.0135
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4449.1**	**4077.3**	**66945.**	**2845.7**
Stddev	11.3	11.3	631.	23.7
%RSD	.25501	.27678	.94288	.83211
#1	4441.1	4069.3	66499.	2828.9
#2	4457.2	4085.3	67391.	2862.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.895%	99.478%	100.00%	102.19%
Range				

Sample Name: 480-181249-C-5-A Acquired: 2/19/2021 15:38:41 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**-.02564**	**.00160**	**-.00010**	**-.00008**
Stddev	.00006	.01446	.00275	.00056	.00001
%RSD	18.224	56.389	171.75	565.96	9.4603
#1	-.00034	-.01542	.00354	-.00049	-.00008
#2	-.00027	-.03586	-.00034	.00030	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.02496**	**-.00016**	**.0112**	**-.00005**
Stddev	.00002	.00004	.00005	.0052	.00004
%RSD	24.784	.16589	32.429	46.86	97.354
#1	-.00011	.02498	-.00020	.0149	-.00001
#2	-.00008	.02493	-.00012	.0075	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**-.00051**	**.00549**	**-.05321**	**-.00121**
Stddev	.00024	.00024	.00302	.00113	.00195
%RSD	135.02	46.158	54.987	2.1159	160.85
#1	.00001	-.00035	.00336	-.05401	-.00259
#2	.00034	-.00068	.00763	-.05242	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181249-C-5-A Acquired: 2/19/2021 15:38:41 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**.00035**	**-.00061**	**-.05795**	**.00016**
Stddev	.00241	.00004	.00009	.00401	.00009
%RSD	491.04	10.237	14.605	6.9216	58.921
#1	-.00122	.00038	-.00068	-.05512	.00023
#2	.00220	.00033	-.00055	-.06079	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.0077**	**.00013**	**.0002**	**.00093**	**-.00174**
Stddev	.0001	.00015	.0014	.00088	.00072
%RSD	1.178	116.40	610.6	94.560	41.457
#1	-.0078	.00002	.0013	.00031	-.00123
#2	-.0076	.00024	-.0008	.00155	-.00225
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01552**	**.00064**	**-.00017**	**-.0198**	**.00026**
Stddev	.02130	.00032	.00012	.0097	.00009
%RSD	137.27	49.868	68.743	49.01	33.689
#1	-.00046	.00087	-.00009	-.0130	.00019
#2	-.03058	.00042	-.00026	-.0267	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181249-C-5-A Acquired: 2/19/2021 15:38:41 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00024**	**.00006**	**-.00004**	**-.0031**
Stddev	.00015	.00015	.00007	.0016
%RSD	61.333	258.08	196.63	51.67
#1	.00035	.00017	-.00009	-.0019
#2	.00014	-.00005	.00001	-.0042
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4676.8**	**4114.4**	**68499.**	**2880.3**
Stddev	5.1	.5	141.	14.8
%RSD	.10824	.01183	.20529	.51550
#1	4673.3	4114.0	68598.	2890.8
#2	4680.4	4114.7	68400.	2869.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.751%	100.38%	102.32%	103.43%
Range				

Sample Name: 480-181262-D-3-A Acquired: 2/19/2021 15:42:30 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.09205**	**.00115**	**.22345**	**.05983**
Stddev	.00037	.02328	.00188	.00033	.00004
%RSD	289.18	25.296	163.91	.14991	.06755
#1	.00039	.10851	.00248	.22369	.05986
#2	-.00013	.07558	-.00018	.22322	.05980
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**280.07**	**.00006**	**.0344**	**.00017**
Stddev	.00009	1.47	.00008	.0413	.00012
%RSD	189.37	.52574	132.39	120.1	67.729
#1	.00011	279.03	.00011	.0636	.00009
#2	-.00002	281.11	.00000	.0052	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	**.00132**	**1.2216**	**6.8137**	**.05885**
Stddev	.00033	.00004	.0085	.0423	.00130
%RSD	64.323	3.2875	.69672	.62090	2.2031
#1	.00028	.00129	1.2156	6.7838	.05793
#2	.00075	.00135	1.2276	6.8436	.05977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181262-D-3-A Acquired: 2/19/2021 15:42:30 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**81.772**	**.21819**	**.00021**	**358.14**	**.00383**
Stddev	.126	.00053	.00008	2.02	.00018
%RSD	.15377	.24165	36.625	.56428	4.5934
#1	81.683	.21781	.00026	356.71	.00371
#2	81.861	.21856	.00016	359.57	.00396
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.5077**	**-.00048**	F **203.2**	**.00023**	**-.00524**
Stddev	.0000	.00003	.7	.00277	.00318
%RSD	.0078	6.3887	.3567	1193.0	60.779
#1	.5078	-.00046	202.6	.00219	-.00299
#2	.5077	-.00050	203.7	-.00173	-.00749
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.00		
Low Limit			-.2000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.4783**	**.00103**	**2.5609**	**-.0300**	**.00219**
Stddev	.0155	.00097	.0056	.0354	.00035
%RSD	.23898	94.253	.22063	118.1	15.949
#1	6.4674	.00172	2.5569	-.0550	.00244
#2	6.4893	.00034	2.5648	-.0049	.00194
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181262-D-3-A Acquired: 2/19/2021 15:42:30 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00050**	**-.00014**	**.01298**	**-.0019**
Stddev	.00054	.00004	.00010	.0005
%RSD	106.92	30.262	.78110	23.60
#1	.00012	-.00011	.01305	-.0023
#2	.00088	-.00016	.01291	-.0016
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3824.4**	**3750.2**	**60205.**	**2805.4**
Stddev	12.7	18.4	86.	7.3
%RSD	.33225	.49109	.14272	.26147
#1	3833.4	3763.3	60266.	2810.6
#2	3815.5	3737.2	60144.	2800.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.571%	91.499%	89.934%	100.74%
Range				

Sample Name: 480-181277-C-1-A Acquired: 2/19/2021 15:46:23 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.02307**	**-.00004**	**.02895**	**.22747**
Stddev	.00028	.01825	.00081	.00019	.00033
%RSD	699.75	79.097	2111.1	.64413	.14318
#1	-.00024	.03597	-.00061	.02882	.22724
#2	.00016	.01017	.00054	.02908	.22770
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**17.824**	**-.00009**	**.0452**	**-.00024**
Stddev	.00004	.001	.00012	.0116	.00019
%RSD	361.03	.00366	138.42	25.63	81.739
#1	.00004	17.823	-.00000	.0533	-.00037
#2	-.00002	17.824	-.00018	.0370	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.00088**	**.02576**	**4.3702**	**.00236**
Stddev	.00027	.00010	.00235	.0042	.00169
%RSD	68.635	11.669	9.1169	.09526	71.561
#1	.00058	.00081	.02742	4.3672	.00117
#2	.00020	.00095	.02410	4.3731	.00355
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181277-C-1-A Acquired: 2/19/2021 15:46:23 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.612**	**.00161**	**-.00082**	**15.888**	**.00177**
Stddev	.010	.00001	.00005	.011	.00035
%RSD	.08573	.63722	5.4992	.06855	19.998
#1	11.619	.00162	-.00079	15.880	.00202
#2	11.605	.00160	-.00085	15.895	.00152
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0153**	**-.00060**	**5.528**	**.00102**	**-.00046**
Stddev	.0007	.00029	.005	.00018	.00398
%RSD	4.786	49.290	.0962	17.614	866.87
#1	.0148	-.00080	5.532	.00089	-.00327
#2	.0158	-.00039	5.524	.00115	.00235
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.7294**	**.00052**	**.13364**	**-.0328**	**.00102**
Stddev	.0891	.00060	.00009	.0052	.00016
%RSD	1.0207	114.93	.07098	15.92	16.150
#1	8.6664	.00010	.13371	-.0291	.00090
#2	8.7924	.00095	.13357	-.0365	.00114
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181277-C-1-A Acquired: 2/19/2021 15:46:23 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00084**	**.00033**	**.01387**	**-.0021**
Stddev	.00033	.00002	.00017	.0023
%RSD	39.491	6.2272	1.2044	110.1
#1	-.00108	.00035	.01375	-.0038
#2	-.00061	.00032	.01399	-.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4460.7**	**4069.1**	**66752.**	**2874.9**
Stddev	7.0	5.5	165.	13.9
%RSD	.15657	.13564	.24673	.48489
#1	4465.6	4073.0	66635.	2884.8
#2	4455.7	4065.1	66868.	2865.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.141%	99.277%	99.713%	103.24%
Range				

Sample Name: CCV-6339745 Acquired: 2/19/2021 15:50:09 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.98785**	**49.487**	**1.0126**	**1.0479**	**1.0056**	**1.0192**	**50.593**	**1.0314**
Stddev	.00238	.112	.0019	.0001	.0006	.0016	.065	.0001
%RSD	.24055	.22587	.19203	.01353	.06258	.16090	.12904	.00630
#1	.98617	49.408	1.0112	1.0478	1.0051	1.0181	50.547	1.0314
#2	.98953	49.566	1.0140	1.0480	1.0060	1.0204	50.639	1.0315
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9937**	**1.0168**	**.99877**	**1.0192**	**49.123**	**50.120**	**.94698**	**50.306**
Stddev	.0219	.0008	.00188	.0022	.322	.115	.00414	.024
%RSD	2.202	.08378	.18793	.21579	.65512	.23013	.43682	.04717
#1	.9782	1.0162	.99745	1.0177	48.896	50.038	.94406	50.289
#2	1.009	1.0174	1.0001	1.0208	49.351	50.202	.94991	50.322
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.98628**	**1.0364**	**49.089**	**1.0143**	**25.86**	**1.0219**	**25.64**	**1.0093**
Stddev	.00321	.0035	.100	.0018	.00	.0010	.01	.0033
%RSD	.32531	.33874	.20434	.17708	.0064	.09305	.0269	.32330
#1	.98401	1.0339	49.019	1.0130	25.86	1.0212	25.64	1.0070
#2	.98855	1.0388	49.160	1.0156	25.86	1.0225	25.63	1.0116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6339745 Acquired: 2/19/2021 15:50:09 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0180**	**9.7956**	**1.0033**	**.99602**	**.9916**	**1.0170**	**1.0304**	**1.0144**
Stddev	.0014	.0446	.0004	.00187	.0339	.0000	.0024	.0029
%RSD	.13592	.45574	.03744	.18810	3.416	.00063	.23330	.28868
#1	1.0170	9.7640	1.0030	.99469	.9677	1.0170	1.0287	1.0123
#2	1.0190	9.8272	1.0036	.99734	1.016	1.0170	1.0321	1.0164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**1.0216**	**.9216**
Stddev	.0034	.0064
%RSD	.33011	.6991
#1	1.0193	.9171
#2	1.0240	.9262
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4083.8**	**3954.6**	**63461.**	**2791.7**
Stddev	4.9	1.5	208.	5.6
%RSD	.12046	.03887	.32766	.20011
#1	4087.3	3955.7	63608.	2795.7
#2	4080.3	3953.5	63314.	2787.8

Sample Name: CCB-6338400 Acquired: 2/19/2021 15:53:45 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.01702**	**.00022**	**-.00005**	**-.00005**	**-.00011**	**-.00340**	**-.00005**
Stddev	.00058	.00833	.00063	.00013	.00005	.00004	.00055	.00005
%RSD	4161.7	48.943	282.67	274.83	98.637	36.732	16.179	100.63
#1	-.00040	-.02292	.00067	.00004	-.00002	-.00014	-.00379	-.00001
#2	.00042	-.01113	-.00022	-.00014	-.00009	-.00008	-.00301	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0112**	**-.00010**	**-.00017**	**-.00015**	**-.00121**	**-.03793**	**.00092**	**.00143**
Stddev	.0257	.00018	.00004	.00055	.00205	.01318	.00122	.00250
%RSD	228.7	171.50	23.656	358.88	169.19	34.754	132.37	175.31
#1	.0069	.00002	-.00020	-.00054	-.00266	-.04725	.00006	.00319
#2	-.0294	-.00023	-.00015	.00024	.00024	-.02861	.00178	-.00034
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00159**	**-.04947**	**-.00016**	**-.0018**	**-.00061**	**.0018**	**.00020**
Stddev	.00001	.00046	.00182	.00012	.0009	.00080	.0031	.00057
%RSD	14.575	28.850	3.6709	74.344	49.35	132.23	176.5	286.56
#1	-.00008	.00192	-.04819	-.00008	-.0024	-.00004	.0040	-.00020
#2	-.00010	.00127	-.05076	-.00025	-.0012	-.00118	-.0004	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6338400 Acquired: 2/19/2021 15:53:45 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00001	.00295	.00049	-.00007	-.0066	.00239	.00043	-.00011
Stddev	.00016	.01148	.00015	.00001	.0038	.00359	.00044	.00037
%RSD	1985.3	389.45	29.428	14.342	57.05	150.11	104.05	328.66
#1	-.00012	-.00517	.00060	-.00006	-.0093	.00494	.00074	-.00038
#2	.00010	.01107	.00039	-.00008	-.0040	-.00015	.00011	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.00029	-.0006
Stddev	.00004	.0019
%RSD	14.065	318.6
#1	.00026	-.0020
#2	.00032	.0008
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4714.9	4121.5	67777.	2810.9
Stddev	3.0	4.9	213.	6.4
%RSD	.06466	.11983	.31354	.22926
#1	4717.1	4125.0	67927.	2815.4
#2	4712.7	4118.0	67627.	2806.3

Sample Name: CCVL-6339744 Acquired: 2/19/2021 15:57:33 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00553**	**.18378**	**.01534**	**.01828**	**.00190**	**.00190**	**.49634**	**.00190**
Stddev	.00015	.00732	.00041	.00024	.00002	.00005	.00524	.00009
%RSD	2.7126	3.9803	2.6606	1.3395	.81257	2.5801	1.0550	4.9381
#1	.00564	.17861	.01562	.01845	.00191	.00187	.50005	.00197
#2	.00543	.18895	.01505	.01811	.00188	.00194	.49264	.00183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0266**	**.00358**	**.00403**	**.00899**	**.04321**	**.40578**	**.02746**	**.19580**
Stddev	.0340	.00011	.00026	.00004	.00499	.01057	.00070	.00325
%RSD	127.7	3.1261	6.4404	.48065	11.558	2.6046	2.5348	1.6590
#1	-.0026	.00366	.00385	.00902	.03968	.41325	.02697	.19350
#2	-.0507	.00351	.00422	.00896	.04674	.39831	.02796	.19809
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00273**	**.00965**	**.86216**	**.00923**	**-.0369**	**.00947**	**.1918**	**.01866**
Stddev	.00008	.00004	.00074	.00002	.0008	.00163	.0009	.00050
%RSD	2.9883	.43546	.08594	.23695	2.077	17.235	.4775	2.6689
#1	.00279	.00968	.86268	.00921	-.0375	.01063	.1911	.01901
#2	.00267	.00962	.86163	.00924	-.0364	.00832	.1924	.01831
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVL-6339744 Acquired: 2/19/2021 15:57:33 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02311**	**.45254**	**.00910**	**.00445**	**.0021**	**.00452**	**.01940**	**.00468**
Stddev	.00004	.01492	.00050	.00009	.0193	.00029	.00020	.00014
%RSD	.16142	3.2966	5.5030	2.1293	922.5	6.4842	1.0510	3.0777
#1	.02308	.46309	.00946	.00452	.0158	.00473	.01954	.00479
#2	.02314	.44199	.00875	.00439	-.0116	.00431	.01925	.00458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**.00908**	**-.0026**
Stddev	.00009	.0031
%RSD	1.0235	117.7
#1	.00902	-.0004
#2	.00915	-.0048
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4722.4**	**4169.9**	**69309.**	**2904.2**
Stddev	6.1	4.8	484.	.8
%RSD	.13010	.11391	.69856	.02767
#1	4726.7	4173.3	68966.	2904.7
#2	4718.0	4166.6	69651.	2903.6

Sample Name: 480-181277-C-2-A Acquired: 2/19/2021 16:01:21 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**-.00019**	**.00138**	**.04988**	**.26110**
Stddev	.00086	.01344	.00125	.00004	.00041
%RSD	251.79	7074.8	90.541	.07904	.15767
#1	.00094	-.00970	.00050	.04985	.26139
#2	-.00027	.00932	.00226	.04991	.26081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**26.134**	**.00004**	**.0567**	**-.00032**
Stddev	.00002	.059	.00012	.0602	.00002
%RSD	284.56	.22432	278.11	106.3	7.8644
#1	.00001	26.175	-.00004	.0992	-.00033
#2	-.00002	26.092	.00013	.0141	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.00450**	**-.00011**	**4.7821**	**.00681**
Stddev	.00014	.00001	.00035	.0410	.00141
%RSD	53.332	.12519	312.96	.85790	20.747
#1	.00016	.00451	.00014	4.8111	.00582
#2	.00035	.00450	-.00036	4.7531	.00781
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181277-C-2-A Acquired: 2/19/2021 16:01:21 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.497**	**.01634**	**-.00070**	**23.524**	**.00134**
Stddev	.046	.00011	.00003	.060	.00005
%RSD	.27693	.69016	4.6518	.25645	4.0186
#1	16.464	.01642	-.00068	23.567	.00138
#2	16.529	.01626	-.00072	23.482	.00131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0278**	**-.00004**	**6.015**	**-.00197**	**-.00002**
Stddev	.0012	.00096	.010	.00107	.00175
%RSD	4.143	2364.9	.1718	54.120	9439.2
#1	.0270	.00064	6.022	-.00273	-.00126
#2	.0286	-.00072	6.007	-.00122	.00122
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9815**	**.00011**	**.17322**	**-.0231**	**-.00007**
Stddev	.0396	.00012	.00060	.0039	.00019
%RSD	.39665	110.16	.34590	16.80	258.18
#1	10.009	.00002	.17364	-.0258	-.00021
#2	9.9535	.00019	.17280	-.0203	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181277-C-2-A Acquired: 2/19/2021 16:01:21 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00017**	**-.00025**	**.00866**	**-.0007**
Stddev	.00070	.00020	.00024	.0010
%RSD	413.47	78.930	2.7893	150.3
#1	.00033	-.00040	.00883	.0000
#2	-.00066	-.00011	.00849	-.0014
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4349.6**	**4008.4**	**65368.**	**2855.8**
Stddev	2.7	5.1	56.	1.4
%RSD	.06257	.12844	.08626	.04961
#1	4347.6	4004.8	65408.	2854.8
#2	4351.5	4012.1	65328.	2856.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.771%	97.798%	97.646%	102.56%
Range				

Sample Name: 480-181277-C-2-ASD@5 Acquired: 2/19/2021 16:05:04 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**-.06161**	**.00126**	**.00879**	**.05260**
Stddev	.00041	.00163	.00063	.00080	.00001
%RSD	187.03	2.6507	49.520	9.1252	.01277
#1	-.00007	-.06046	.00171	.00822	.05259
#2	.00051	-.06277	.00082	.00935	.05260
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**5.3026**	**-.00012**	**-.0157**	**-.00006**
Stddev	.00008	.0205	.00006	.0297	.00008
%RSD	146.72	.38679	46.681	188.9	128.17
#1	.00000	5.2881	-.00016	-.0368	-.00001
#2	-.00011	5.3171	-.00008	.0053	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.00049**	**-.00555**	**.94610**	**.00190**
Stddev	.00013	.00035	.00079	.00155	.00004
%RSD	141.02	72.599	14.188	.16411	2.2585
#1	.00000	.00024	-.00499	.94719	.00187
#2	.00018	.00074	-.00611	.94500	.00193
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181277-C-2-ASD@5 Acquired: 2/19/2021 16:05:04 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.2967**	**.00321**	**-.00084**	**4.6795**	**.00020**
Stddev	.0153	.00007	.00005	.0006	.00024
%RSD	.46451	2.0954	5.5514	.01354	120.59
#1	3.2859	.00316	-.00087	4.6799	.00036
#2	3.3075	.00325	-.00081	4.6790	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.00020**	**1.165**	**.00028**	**.00025**
Stddev	.0009	.00066	.002	.00123	.00208
%RSD	829.3	330.88	.1797	446.34	814.88
#1	-.0005	.00027	1.167	-.00060	.00172
#2	.0008	-.00066	1.164	.00115	-.00121
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.0023**	**.00009**	**.03458**	**.0142**	**-.00044**
Stddev	.0292	.00035	.00021	.0036	.00024
%RSD	1.4601	392.40	.62124	25.59	56.000
#1	1.9816	-.00016	.03442	.0168	-.00061
#2	2.0229	.00034	.03473	.0117	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181277-C-2-ASD@5 Acquired: 2/19/2021 16:05:04 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00030**	**-.00009**	**.00190**	**-.0010**
Stddev	.00071	.00003	.00023	.0007
%RSD	236.54	36.168	12.143	67.44
#1	-.00080	-.00006	.00207	-.0014
#2	.00020	-.00011	.00174	-.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4571.9**	**4066.1**	**66186.**	**2752.3**
Stddev	7.5	12.2	22.	11.3
%RSD	.16350	.30125	.03289	.41078
#1	4577.1	4074.7	66171.	2760.3
#2	4566.6	4057.4	66201.	2744.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.512%	99.205%	98.868%	98.838%
Range				

Sample Name: 480-181277-C-2-APDS Acquired: 2/19/2021 16:08:52 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04757**	**9.5896**	**.20290**	**.24605**	**.45518**
Stddev	.00024	.1101	.00057	.00046	.00257
%RSD	.51368	1.1477	.28235	.18592	.56359
#1	.04740	9.5118	.20249	.24573	.45336
#2	.04775	9.6674	.20330	.24637	.45699
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20413**	**35.247**	**.19775**	**.0634**	**.19195**
Stddev	.00022	.042	.00053	.0171	.00014
%RSD	.10847	.11822	.26904	27.02	.07044
#1	.20397	35.217	.19813	.0755	.19204
#2	.20428	35.276	.19737	.0513	.19185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19353**	**.20357**	**9.3543**	**14.345**	**.19584**
Stddev	.00021	.00152	.0822	.022	.00053
%RSD	.10813	.74539	.87916	.15271	.27028
#1	.19368	.20249	9.2962	14.361	.19547
#2	.19339	.20464	9.4125	14.330	.19622
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181277-C-2-APDS Acquired: 2/19/2021 16:08:52 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.820**	**.20872**	**.20361**	**32.623**	**.19292**
Stddev	.049	.00065	.00030	.129	.00072
%RSD	.18994	.31181	.14628	.39465	.37277
#1	25.785	.20826	.20340	32.532	.19241
#2	25.854	.20918	.20382	32.714	.19342
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.6425**	**.19642**	**15.74**	**.19819**	**.19781**
Stddev	.0048	.00044	.02	.00277	.00198
%RSD	.7496	.22500	.1060	1.3969	1.0027
#1	-.6391	.19611	15.75	.20015	.19921
#2	-.6459	.19673	15.72	.19623	.19640
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.364**	**.19357**	**.36375**	**.0079**	**.19872**
Stddev	.159	.00097	.00113	.0005	.00014
%RSD	.81941	.50100	.31006	6.675	.06853
#1	19.251	.19289	.36295	.0075	.19863
#2	19.476	.19426	.36454	.0083	.19882
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181277-C-2-APDS Acquired: 2/19/2021 16:08:52 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.19785**	**.19470**	**.20168**	**.0252**
Stddev	.00035	.00042	.00022	.0007
%RSD	.17860	.21536	.11141	2.808
#1	.19760	.19500	.20152	.0247
#2	.19810	.19440	.20184	.0257
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4278.4**	**4007.7**	**65073.**	**2804.2**
Stddev	5.9	13.0	195.	2.9
%RSD	.13843	.32360	.29919	.10477
#1	4274.3	3998.5	65211.	2806.3
#2	4282.6	4016.8	64936.	2802.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.254%	97.780%	97.206%	100.70%
Range				

Sample Name: 480-181277-C-2-B MS Acquired: 2/19/2021 16:12:33 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04783**	**9.7543**	**.20574**	**.25057**	**.46999**
Stddev	.00018	.0008	.00213	.00011	.00197
%RSD	.37943	.00840	1.0363	.04346	.41948
#1	.04796	9.7549	.20423	.25049	.46860
#2	.04771	9.7537	.20725	.25064	.47139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20859**	**36.560**	**.20161**	**.0028**	**.19548**
Stddev	.00073	.138	.00045	.0508	.00025
%RSD	.34860	.37704	.22382	1783.	.13024
#1	.20910	36.658	.20193	.0388	.19566
#2	.20808	36.463	.20129	-.0331	.19530
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19484**	**.20635**	**9.4316**	**14.733**	**.19691**
Stddev	.00159	.00033	.0000	.054	.00111
%RSD	.81506	.15814	.00007	.36696	.56423
#1	.19372	.20658	9.4316	14.771	.19613
#2	.19597	.20612	9.4316	14.695	.19770
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181277-C-2-B MS Acquired: 2/19/2021 16:12:33 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.603**	**.21113**	**.20754**	**33.733**	**.19599**
Stddev	.051	.00049	.00012	.128	.00011
%RSD	.19322	.23234	.06016	.37869	.05837
#1	26.567	.21078	.20763	33.823	.19591
#2	26.639	.21147	.20745	33.643	.19607
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.6524**	**.20159**	**16.21**	**.19838**	**.20018**
Stddev	.0040	.00008	.04	.00196	.00042
%RSD	.6163	.03813	.2236	.98720	.20856
#1	-.6553	.20153	16.23	.19700	.20047
#2	-.6496	.20164	16.18	.19977	.19988
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.409**	**.19832**	**.37425**	**.0012**	**.20164**
Stddev	.015	.00034	.00143	.0092	.00074
%RSD	.07469	.17311	.38136	793.2	.36531
#1	19.419	.19808	.37526	-.0054	.20112
#2	19.399	.19857	.37324	.0077	.20216
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181277-C-2-B MS Acquired: 2/19/2021 16:12:33 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.20193**	**.19749**	**.20661**	**.0091**
Stddev	.00028	.00012	.00144	.0004
%RSD	.13982	.06113	.69641	3.961
#1	.20213	.19758	.20763	.0088
#2	.20173	.19740	.20560	.0093
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4231.6**	**3974.4**	**64476.**	**2789.5**
Stddev	8.5	4.8	30.	6.5
%RSD	.20059	.12076	.04650	.23462
#1	4237.6	3977.8	64497.	2784.8
#2	4225.6	3971.0	64455.	2794.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.255%	96.969%	96.314%	100.17%
Range				

Sample Name: 480-181277-C-2-C MSD Acquired: 2/19/2021 16:16:14 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04870**	**9.6995**	**.20510**	**.25170**	**.47163**
Stddev	.00037	.0324	.00019	.00003	.00663
%RSD	.75953	.33389	.09270	.01291	1.4047
#1	.04844	9.7224	.20496	.25168	.46695
#2	.04897	9.6766	.20523	.25172	.47632
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20868**	**36.534**	**.20215**	**.0297**	**.19525**
Stddev	.00047	.082	.00000	.0101	.00048
%RSD	.22608	.22342	.00126	33.94	.24379
#1	.20902	36.591	.20215	.0226	.19491
#2	.20835	36.476	.20215	.0368	.19559
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19460**	**.20576**	**9.3500**	**14.758**	**.19516**
Stddev	.00010	.00003	.0294	.057	.00158
%RSD	.05293	.01659	.31447	.38947	.81042
#1	.19467	.20579	9.3708	14.798	.19405
#2	.19452	.20574	9.3292	14.717	.19628
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181277-C-2-C MSD Acquired: 2/19/2021 16:16:14 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.552**	**.21014**	**.20741**	**33.708**	**.19576**
Stddev	.004	.00006	.00012	.005	.00001
%RSD	.01573	.02732	.05717	.01471	.00518
#1	26.555	.21010	.20733	33.704	.19576
#2	26.549	.21018	.20750	33.711	.19577
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.6491**	**.19979**	**16.18**	**.20254**	**.20100**
Stddev	.0009	.00005	.00	.00187	.00124
%RSD	.1323	.02550	.0209	.92347	.61705
#1	-.6485	.19983	16.18	.20121	.20188
#2	-.6497	.19976	16.18	.20386	.20013
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.407**	**.19818**	**.37365**	**.0012**	**.20176**
Stddev	.018	.00086	.00054	.0120	.00039
%RSD	.09463	.43477	.14450	965.4	.19196
#1	19.394	.19757	.37403	-.0073	.20203
#2	19.420	.19879	.37327	.0098	.20149
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181277-C-2-C MSD Acquired: 2/19/2021 16:16:14 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.20096**	**.19771**	**.20423**	**.0068**
Stddev	.00160	.00032	.00114	.0000
%RSD	.79824	.16034	.55757	.1510
#1	.19983	.19749	.20342	.0068
#2	.20210	.19794	.20503	.0068
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4239.9**	**3973.0**	**64708.**	**2776.0**
Stddev	.8	3.7	24.	6.0
%RSD	.01879	.09398	.03703	.21635
#1	4239.4	3970.4	64691.	2771.8
#2	4240.5	3975.7	64725.	2780.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.433%	96.935%	96.661%	99.691%
Range				

Sample Name: 480-181277-C-3-A Acquired: 2/19/2021 16:19:56 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.00423**	**.00043**	**.02778**	**.22175**
Stddev	.00060	.02882	.00166	.00032	.00032
%RSD	1866.9	681.02	388.24	1.1530	.14467
#1	.00046	-.02461	-.00074	.02755	.22198
#2	-.00039	.01615	.00160	.02800	.22152
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**17.648**	**.00001**	**.0359**	**-.00020**
Stddev	.00002	.003	.00010	.0077	.00008
%RSD	37.469	.01740	1733.5	21.54	36.653
#1	.00004	17.650	-.00007	.0304	-.00015
#2	.00006	17.646	.00008	.0414	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.00086**	**.03896**	**4.2912**	**.00566**
Stddev	.00009	.00024	.00463	.0120	.00227
%RSD	26.833	28.437	11.891	.27998	40.174
#1	.00028	.00103	.04223	4.2827	.00726
#2	.00040	.00069	.03568	4.2997	.00405
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181277-C-3-A Acquired: 2/19/2021 16:19:56 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.546**	**.00159**	**-.00075**	**15.544**	**.00191**
Stddev	.025	.00006	.00001	.044	.00005
%RSD	.21811	3.6442	1.8603	.28484	2.6222
#1	11.528	.00163	-.00076	15.512	.00195
#2	11.563	.00155	-.00074	15.575	.00187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0161**	**.00061**	**5.358**	**-.00023**	**-.00077**
Stddev	.0003	.00087	.024	.00019	.00173
%RSD	1.555	141.91	.4461	79.789	223.97
#1	.0159	-.00000	5.341	-.00036	.00045
#2	.0163	.00123	5.375	-.00010	-.00199
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.4551**	**.00020**	**.13060**	**-.0275**	**.00087**
Stddev	.0118	.00060	.00015	.0212	.00001
%RSD	.14002	295.99	.11820	77.10	1.5508
#1	8.4635	.00062	.13049	-.0125	.00088
#2	8.4467	-.00022	.13070	-.0425	.00086
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181277-C-3-A Acquired: 2/19/2021 16:19:56 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00034**	**.00004**	**.01306**	**-.0018**
Stddev	.00054	.00004	.00042	.0009
%RSD	156.08	89.794	3.2068	52.85
#1	-.00004	.00007	.01277	-.0011
#2	.00073	.00002	.01336	-.0024
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4441.3**	**4034.4**	**66337.**	**2817.7**
Stddev	17.3	16.0	185.	1.7
%RSD	.38980	.39635	.27959	.06038
#1	4429.1	4023.1	66468.	2816.5
#2	4453.6	4045.7	66206.	2818.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.728%	98.432%	99.093%	101.19%
Range				

Sample Name: 480-181277-C-4-A Acquired: 2/19/2021 16:23:41 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**-.03609**	**-.00030**	**-.00027**	**.00029**
Stddev	.00018	.00847	.00040	.00020	.00002
%RSD	42.331	23.471	136.67	72.609	6.7311
#1	.00030	-.04208	-.00058	-.00013	.00030
#2	.00055	-.03010	-.00001	-.00041	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.17917**	**-.00014**	**.0486**	**.00007**
Stddev	.00002	.00408	.00008	.0201	.00019
%RSD	12.191	2.2787	57.957	41.25	287.60
#1	-.00017	.18205	-.00020	.0628	-.00007
#2	-.00014	.17628	-.00008	.0345	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.00050**	**-.00444**	**-.02060**	**-.00033**
Stddev	.00004	.00007	.00322	.00526	.00214
%RSD	647.37	13.806	72.399	25.529	654.04
#1	-.00002	-.00045	-.00672	-.02432	.00119
#2	.00003	-.00055	-.00217	-.01688	-.00184
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181277-C-4-A Acquired: 2/19/2021 16:23:41 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00786**	**.00023**	**-.00093**	**.45727**	**-.00009**
Stddev	.00142	.00003	.00004	.00684	.00014
%RSD	18.124	14.002	4.2269	1.4958	154.41
#1	.00887	.00021	-.00090	.46210	-.00019
#2	.00685	.00025	-.00096	.45243	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.0064**	**-.00001**	**.0009**	**-.00002**	**-.00066**
Stddev	.0022	.00076	.0001	.00014	.00018
%RSD	34.48	13838.	15.76	565.51	26.926
#1	-.0079	-.00054	.0010	-.00012	-.00079
#2	-.0048	.00053	.0008	.00007	-.00054
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10182**	**-.00033**	**.00008**	**-.0061**	**-.00031**
Stddev	.01234	.00025	.00009	.0009	.00004
%RSD	12.116	74.176	109.27	14.79	14.245
#1	.09310	-.00016	.00015	-.0067	-.00028
#2	.11054	-.00051	.00002	-.0055	-.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181277-C-4-A Acquired: 2/19/2021 16:23:41 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00092**	**-.00021**	**.00007**	**-.0026**
Stddev	.00062	.00037	.00002	.0032
%RSD	66.742	174.65	35.658	123.8
#1	-.00136	-.00048	.00008	-.0003
#2	-.00049	.00005	.00005	-.0049
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4683.0**	**4136.2**	**69076.**	**2894.2**
Stddev	2.6	5.0	24.	8.0
%RSD	.05486	.12207	.03431	.27719
#1	4681.2	4132.6	69059.	2899.9
#2	4684.8	4139.7	69092.	2888.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.882%	100.91%	103.18%	103.94%
Range				

Sample Name: 480-181290-B-1-A Acquired: 2/19/2021 16:27:30 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**-.02544**	**.00698**	**1.9152**	**.06489**
Stddev	.00090	.00910	.00201	.0014	.00017
%RSD	685.45	35.769	28.877	.07244	.25439
#1	.00050	-.03187	.00555	1.9142	.06478
#2	-.00077	-.01901	.00840	1.9162	.06501
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**127.34**	**-.00001**	**.0218**	**-.00024**
Stddev	.00005	.17	.00008	.0525	.00012
%RSD	26.963	.13248	830.42	240.5	51.285
#1	-.00015	127.22	.00004	.0590	-.00016
#2	-.00023	127.46	-.00006	-.0153	-.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00045**	**.00383**	**15.697**	**9.4062**	**.05681**
Stddev	.00008	.00009	.007	.0780	.00075
%RSD	17.956	2.2847	.04527	.82875	1.3128
#1	.00039	.00376	15.702	9.3511	.05734
#2	.00051	.00389	15.692	9.4613	.05628
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181290-B-1-A Acquired: 2/19/2021 16:27:30 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.990**	**3.4811**	**.00359**	**207.13**	**.00578**
Stddev	.017	.0251	.00016	.01	.00016
%RSD	.06969	.72025	4.5880	.00622	2.6874
#1	24.002	3.4634	.00348	207.12	.00567
#2	23.979	3.4988	.00371	207.14	.00589
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0616**	**.00130**	**1.146**	**-.00185**	**-.00462**
Stddev	.0009	.00084	.001	.00127	.00151
%RSD	1.491	64.975	.1033	68.920	32.631
#1	.0623	.00070	1.147	-.00275	-.00568
#2	.0610	.00189	1.145	-.00095	-.00355
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.477**	**.00051**	**.46838**	**-.0005**	**.00036**
Stddev	.133	.00003	.00231	.0005	.00002
%RSD	.36393	5.9267	.49234	98.32	4.5358
#1	36.571	.00053	.46675	-.0002	.00035
#2	36.383	.00049	.47001	-.0009	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181290-B-1-A Acquired: 2/19/2021 16:27:30 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.00262**	**.02694**	**.0004**
Stddev	.00120	.00007	.00069	.0001
%RSD	489.03	2.8383	2.5531	26.56
#1	.00060	.00267	.02742	.0005
#2	-.00109	.00257	.02645	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3966.9**	**3856.8**	**62715.**	**2806.3**
Stddev	9.6	11.3	140.	13.6
%RSD	.24270	.29206	.22254	.48346
#1	3960.1	3848.8	62616.	2796.7
#2	3973.7	3864.7	62813.	2815.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.608%	94.098%	93.683%	100.78%
Range				

Sample Name: 480-181290-B-2-A Acquired: 2/19/2021 16:31:24 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.05603**	**.00152**	**.27198**	**.16135**
Stddev	.00039	.01679	.00239	.00021	.00038
%RSD	624.97	29.969	157.14	.07715	.23326
#1	-.00022	.04415	-.00017	.27183	.16108
#2	.00034	.06790	.00321	.27213	.16162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**84.352**	**.00007**	**.0144**	**.00021**
Stddev	.00000	.403	.00013	.0013	.00017
%RSD	2.2873	.47791	183.63	8.738	82.117
#1	-.00009	84.067	.00017	.0135	.00033
#2	-.00010	84.637	-.00002	.0153	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.00102**	**.06609**	**6.4128**	**.00255**
Stddev	.00014	.00015	.00170	.0158	.00106
%RSD	65.940	14.397	2.5749	.24592	41.750
#1	.00031	.00112	.06730	6.4017	.00180
#2	.00011	.00092	.06489	6.4240	.00330
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181290-B-2-A Acquired: 2/19/2021 16:31:24 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.303**	**.22061**	**.00087**	**8.1450**	**.00090**
Stddev	.009	.00081	.00026	.0329	.00008
%RSD	.03803	.36816	30.034	.40375	9.2729
#1	24.309	.22004	.00069	8.1217	.00095
#2	24.296	.22119	.00106	8.1682	.00084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0591**	**.00656**	**7.608**	**-.00145**	**-.00167**
Stddev	.0015	.00039	.023	.00195	.00283
%RSD	2.564	5.8915	.2988	134.45	169.83
#1	.0602	.00629	7.592	-.00007	.00033
#2	.0580	.00684	7.624	-.00283	-.00367
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.120**	**.00079**	**.22751**	**-.0065**	**.00034**
Stddev	.002	.00055	.00111	.0044	.00018
%RSD	.01883	70.150	.48908	67.32	54.255
#1	12.119	.00117	.22672	-.0096	.00047
#2	12.122	.00040	.22829	-.0034	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181290-B-2-A Acquired: 2/19/2021 16:31:24 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00021**	**-.00021**	**.46201**	**-.0029**
Stddev	.00044	.00002	.00192	.0046
%RSD	210.48	8.7261	.41513	158.9
#1	.00052	-.00022	.46065	.0004
#2	-.00010	-.00019	.46337	-.0061
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4297.2**	**3962.9**	**64890.**	**2797.3**
Stddev	.9	2.6	214.	16.0
%RSD	.02149	.06532	.33052	.57336
#1	4297.9	3961.0	65042.	2808.6
#2	4296.6	3964.7	64739.	2785.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.655%	96.687%	96.933%	100.45%
Range				

Sample Name: CCV-6339745 Acquired: 2/19/2021 16:35:06 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.98885**	**50.590**	**1.0178**	**1.0473**	**1.0115**	**1.0274**	**51.561**	**1.0308**
Stddev	.00023	.179	.0012	.0010	.0047	.0035	.159	.0002
%RSD	.02357	.35301	.12082	.09340	.46287	.34180	.30913	.01540
#1	.98869	50.716	1.0169	1.0466	1.0148	1.0299	51.674	1.0309
#2	.98902	50.464	1.0186	1.0480	1.0082	1.0249	51.449	1.0306
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9938**	**1.0235**	**1.0142**	**1.0208**	**50.052**	**50.749**	**.97018**	**51.279**
Stddev	.0356	.0017	.0025	.0021	.326	.122	.00508	.093
%RSD	3.587	.16091	.24645	.20945	.65122	.23998	.52324	.18151
#1	.9686	1.0224	1.0124	1.0192	50.282	50.835	.97377	51.213
#2	1.019	1.0247	1.0159	1.0223	49.822	50.663	.96659	51.345
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99886**	**1.0425**	**49.905**	**1.0241**	**25.91**	**1.0325**	**25.74**	**1.0141**
Stddev	.00185	.0027	.251	.0009	.04	.0003	.01	.0037
%RSD	.18512	.25783	.50345	.08597	.1650	.02648	.0421	.36480
#1	.99755	1.0406	50.083	1.0235	25.88	1.0323	25.73	1.0167
#2	1.0002	1.0444	49.727	1.0247	25.94	1.0327	25.74	1.0114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6339745 Acquired: 2/19/2021 16:35:06 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0253**	**10.104**	**1.0214**	**1.0077**	**1.009**	**1.0243**	**1.0403**	**1.0209**
Stddev	.0017	.023	.0014	.0037	.023	.0020	.0005	.0015
%RSD	.16086	.22903	.14098	.36467	2.271	.19520	.04470	.14821
#1	1.0265	10.087	1.0204	1.0103	.9924	1.0229	1.0400	1.0198
#2	1.0241	10.120	1.0224	1.0051	1.025	1.0257	1.0407	1.0220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**1.0343**	**.9134**
Stddev	.0079	.0006
%RSD	.76594	.0627
#1	1.0287	.9130
#2	1.0399	.9138
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4075.6**	**3949.7**	**63133.**	**2748.6**
Stddev	6.5	9.5	205.	12.5
%RSD	.15908	.24091	.32482	.45626
#1	4071.0	3943.0	63278.	2739.7
#2	4080.1	3956.4	62988.	2757.5

Sample Name: CCB-6338400 Acquired: 2/19/2021 16:38:42 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.01675**	**-.00121**	**.00046**	**-.00010**	**-.00004**	**-.00617**	**-.00006**
Stddev	.00079	.02529	.00076	.00063	.00001	.00011	.00207	.00011
%RSD	3607.5	151.04	62.366	137.55	8.3829	259.81	33.592	180.47
#1	-.00058	-.03463	-.00068	.00090	-.00009	-.00012	-.00763	-.00014
#2	.00054	.00114	-.00175	.00001	-.00011	.00003	-.00470	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0089**	**-.00017**	**-.00019**	**-.00037**	**.00188**	**.01159**	**-.00008**	**-.00343**
Stddev	.0273	.00001	.00023	.00020	.00304	.00523	.00008	.00278
%RSD	304.8	4.6862	117.99	53.656	162.14	45.140	106.94	81.052
#1	.0103	-.00018	-.00003	-.00023	.00403	.00789	-.00014	-.00146
#2	-.0282	-.00017	-.00035	-.00051	-.00027	.01529	-.00002	-.00540
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00134**	**-.04204**	**-.00004**	**-.0032**	**-.00060**	**-.0064**	**.00196**
Stddev	.00009	.00054	.00199	.00028	.0001	.00037	.0003	.00073
%RSD	84.373	40.511	4.7286	789.72	2.215	61.327	4.182	37.446
#1	-.00004	.00172	-.04064	.00016	-.0032	-.00086	-.0066	.00144
#2	-.00016	.00096	-.04345	-.00024	-.0031	-.00034	-.0062	.00248
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6338400 Acquired: 2/19/2021 16:38:42 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.00486**	**.00002**	**-.00021**	**-.0034**	**-.00020**	**-.00078**	**-.00020**
Stddev	.00201	.01340	.00038	.00012	.0009	.00001	.00007	.00002
%RSD	1526.8	275.93	1778.2	58.950	26.08	6.7077	9.0919	8.8456
#1	-.00129	.01433	.00029	-.00030	-.0027	-.00021	-.00073	-.00021
#2	.00155	-.00462	-.00025	-.00012	-.0040	-.00019	-.00082	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**.00033**	**-.0012**
Stddev	.00018	.0043
%RSD	52.807	367.5
#1	.00046	-.0042
#2	.00021	.0019
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4627.1**	**4067.8**	**66313.**	**2730.1**
Stddev	3.8	3.6	120.	4.0
%RSD	.08220	.08918	.18066	.14675
#1	4629.8	4070.4	66398.	2732.9
#2	4624.4	4065.2	66228.	2727.2

Sample Name: CCVL-6339744 Acquired: 2/19/2021 16:42:30 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00610**	**.17129**	**.01657**	**.01889**	**.00188**	**.00193**	**.49576**	**.00179**
Stddev	.00056	.04118	.00136	.00047	.00000	.00009	.00894	.00005
%RSD	9.1805	24.044	8.2020	2.5088	.14648	4.6274	1.8024	2.7304
#1	.00649	.14216	.01561	.01923	.00188	.00199	.50208	.00183
#2	.00570	.20041	.01753	.01856	.00189	.00187	.48945	.00176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0360**	**.00357**	**.00411**	**.00906**	**.03842**	**.41919**	**.02622**	**.19607**
Stddev	.0297	.00018	.00013	.00067	.00217	.02588	.00008	.00054
%RSD	82.66	5.0656	3.1183	7.3517	5.6377	6.1740	.31664	.27330
#1	.0570	.00344	.00402	.00859	.03688	.43749	.02627	.19569
#2	.0150	.00369	.00420	.00953	.03995	.40089	.02616	.19645
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00280**	**.00956**	**.89186**	**.00937**	**-.0380**	**.00920**	**.1752**	**.01726**
Stddev	.00006	.00002	.01005	.00004	.0022	.00024	.0005	.00017
%RSD	2.0028	.19428	1.1272	.41808	5.848	2.6092	.2913	.97820
#1	.00284	.00957	.88475	.00940	-.0396	.00937	.1749	.01738
#2	.00276	.00955	.89897	.00934	-.0364	.00903	.1756	.01714
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVL-6339744 Acquired: 2/19/2021 16:42:30 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02246**	**.45596**	**.00930**	**.00459**	**-.0344**	**.00428**	**.01839**	**.00451**
Stddev	.00294	.00347	.00020	.00002	.0131	.00018	.00063	.00006
%RSD	13.094	.76107	2.1899	.44098	38.06	4.1796	3.4053	1.3854
#1	.02454	.45842	.00916	.00460	-.0252	.00416	.01794	.00447
#2	.02038	.45351	.00944	.00457	-.0437	.00441	.01883	.00456
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**.00915**	**.0004**
Stddev	.00020	.0008
%RSD	2.2300	199.6
#1	.00901	-.0002
#2	.00930	.0010
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4615.5**	**4061.0**	**66840.**	**2737.3**
Stddev	12.9	11.6	119.	1.2
%RSD	.27894	.28482	.17738	.04215
#1	4606.3	4052.8	66924.	2738.1
#2	4624.6	4069.2	66756.	2736.5

Sample Name: 480-181290-B-3-A Acquired: 2/19/2021 16:46:17 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**-.01882**	**.00017**	**.47627**	**.00947**
Stddev	.00032	.02639	.00012	.00040	.00005
%RSD	124.92	140.23	72.880	.08432	.51578
#1	.00003	-.03748	.00026	.47656	.00950
#2	.00048	-.00016	.00008	.47599	.00943
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**75.811**	**-.00012**	**.0629**	**-.00026**
Stddev	.00005	.225	.00006	.0207	.00001
%RSD	31.401	.29671	47.866	32.94	4.2801
#1	-.00012	75.970	-.00008	.0483	-.00025
#2	-.00018	75.652	-.00016	.0776	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00075**	**.00508**	**.00526**	**8.4297**	**.00526**
Stddev	.00003	.00056	.00461	.0030	.00057
%RSD	3.7561	10.993	87.634	.03571	10.870
#1	.00077	.00547	.00200	8.4318	.00486
#2	.00073	.00468	.00852	8.4275	.00567
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181290-B-3-A Acquired: 2/19/2021 16:46:17 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**31.781**	**.00126**	**.00445**	**15.266**	**.00107**
Stddev	.008	.00001	.00003	.043	.00008
%RSD	.02671	.58924	.56278	.28211	7.3709
#1	31.787	.00127	.00446	15.297	.00113
#2	31.775	.00126	.00443	15.236	.00102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.0164**	**-.00039**	**27.18**	**-.00020**	**.00370**
Stddev	.0004	.00046	.01	.00025	.00184
%RSD	2.574	120.20	.0461	122.62	49.671
#1	-.0167	-.00071	27.17	-.00038	.00500
#2	-.0161	-.00006	27.19	-.00003	.00240
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.311**	**.00007**	**.22732**	**-.0090**	**.00024**
Stddev	.092	.00033	.00141	.0124	.00006
%RSD	.69393	470.72	.61943	137.7	24.283
#1	13.376	-.00016	.22832	-.0002	.00028
#2	13.245	.00030	.22632	-.0177	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181290-B-3-A Acquired: 2/19/2021 16:46:17 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00059**	**.00499**	**.00527**	**-.0029**
Stddev	.00111	.00021	.00004	.0007
%RSD	187.37	4.2307	.74358	23.98
#1	.00019	.00484	.00529	-.0024
#2	-.00138	.00513	.00524	-.0034
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4263.7**	**3957.0**	**64773.**	**2787.3**
Stddev	12.5	12.8	411.	15.4
%RSD	.29246	.32309	.63424	.55154
#1	4272.5	3966.0	64482.	2776.4
#2	4254.9	3947.9	65063.	2798.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.940%	96.543%	96.757%	100.09%
Range				

Sample Name: 480-181290-B-4-A Acquired: 2/19/2021 16:50:00 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**-.00075**	**-.00085**	**.34570**	**.28219**
Stddev	.00034	.00757	.00015	.00010	.00003
%RSD	1076.5	1007.8	17.965	.02934	.01129
#1	-.00027	-.00611	-.00074	.34577	.28221
#2	.00021	.00460	-.00096	.34563	.28217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**100.98**	**-.00005**	**.0072**	**-.00023**
Stddev	.00004	.34	.00004	.0214	.00005
%RSD	51.605	.34009	73.487	298.6	20.332
#1	-.00005	101.22	-.00008	-.0080	-.00020
#2	-.00011	100.73	-.00002	.0223	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	**.00339**	**.07416**	**11.347**	**.00324**
Stddev	.00001	.00029	.00629	.035	.00126
%RSD	.96530	8.5744	8.4813	.30460	38.934
#1	.00059	.00359	.07860	11.372	.00413
#2	.00058	.00318	.06971	11.323	.00235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181290-B-4-A Acquired: 2/19/2021 16:50:00 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.939**	**.03129**	**.00155**	**12.602**	**.00009**
Stddev	.013	.00002	.00027	.019	.00006
%RSD	.04560	.06692	17.571	.15255	71.680
#1	28.930	.03128	.00174	12.616	.00004
#2	28.949	.03131	.00136	12.589	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.3511**	**-.00049**	**11.10**	**.00076**	**.00150**
Stddev	.0012	.00075	.02	.00053	.00092
%RSD	.3417	151.59	.1833	69.611	61.351
#1	.3519	.00004	11.08	.00039	.00085
#2	.3502	-.00102	11.11	.00114	.00215
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.203**	**.00095**	**.27881**	**-.0086**	**.00060**
Stddev	.003	.00027	.00064	.0037	.00003
%RSD	.02291	28.254	.23011	42.79	4.7508
#1	12.204	.00114	.27927	-.0112	.00058
#2	12.201	.00076	.27836	-.0060	.00062
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181290-B-4-A Acquired: 2/19/2021 16:50:00 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00015**	**.00295**	**.00444**	**-.0002**
Stddev	.00031	.00044	.00030	.0009
%RSD	203.45	14.836	6.7644	438.3
#1	.00037	.00326	.00422	.0004
#2	-.00007	.00264	.00465	-.0008
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4173.4**	**3895.4**	**63356.**	**2734.2**
Stddev	9.8	10.4	200.	11.5
%RSD	.23401	.26816	.31511	.41912
#1	4180.3	3902.8	63214.	2726.1
#2	4166.5	3888.0	63497.	2742.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.013%	95.040%	94.640%	98.187%
Range				

Sample Name: 480-181290-B-5-A Acquired: 2/19/2021 16:53:43 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.04914**	**.06885**	**9.9013**	**.22017**
Stddev	.00066	.01362	.00107	.0155	.00041
%RSD	161.43	27.706	1.5551	.15670	.18739
#1	-.00087	.05877	.06960	9.9123	.21988
#2	.00006	.03951	.06809	9.8904	.22046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**88.812**	**-.00002**	**.0522**	**.03281**
Stddev	.00004	.117	.00005	.0051	.00012
%RSD	3795.4	.13147	320.06	9.820	.36190
#1	-.00003	88.729	-.00005	.0558	.03290
#2	.00003	88.894	.00002	.0486	.03273
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22249**	**.06768**	**11.582**	**391.24**	**.11862**
Stddev	.00038	.00117	.016	.22	.00088
%RSD	.16952	1.7360	.14163	.05525	.74255
#1	.22275	.06685	11.594	391.09	.11799
#2	.22222	.06851	11.571	391.39	.11924
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181290-B-5-A Acquired: 2/19/2021 16:53:43 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**137.97**	**1.4124**	**.01643**	F **1492.6**	**.32242**
Stddev	.64	.0018	.00015	1.4	.00040
%RSD	.46454	.12519	.92087	.09675	.12468
#1	138.43	1.4136	.01653	1493.6	.32270
#2	137.52	1.4111	.01632	1491.6	.32213
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.307**	**.00201**	**51.14**	**.00577**	**-.00092**
Stddev	.000	.00023	.09	.00102	.00208
%RSD	.0078	11.437	.1671	17.653	225.53
#1	4.306	.00185	51.20	.00649	-.00239
#2	4.307	.00217	51.08	.00505	.00055
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.598**	**.03482**	**1.1205**	**.0205**	**.31803**
Stddev	.007	.00098	.0031	.0106	.00013
%RSD	.02431	2.8148	.27552	51.58	.03949
#1	28.593	.03552	1.1183	.0280	.31794
#2	28.603	.03413	1.1227	.0130	.31812
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181290-B-5-A Acquired: 2/19/2021 16:53:43 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00126**	**.18198**	**.07190**	**.0653**
Stddev	.00136	.00048	.00026	.0018
%RSD	108.17	.26261	.36479	2.732
#1	-.00030	.18164	.07208	.0641
#2	-.00223	.18231	.07171	.0666
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3440.7**	**3552.7**	**55471.**	**2670.0**
Stddev	3.9	7.0	96.	25.8
%RSD	.11217	.19805	.17365	.96733
#1	3437.9	3547.7	55403.	2651.7
#2	3443.4	3557.7	55539.	2688.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	73.385%	86.679%	82.863%	95.881%
Range				

Sample Name: 480-181290-B-6-A Acquired: 2/19/2021 16:57:33 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**-.00194**	**.04087**	**4.6196**	**.18994**
Stddev	.00002	.01938	.00089	.0018	.00026
%RSD	14.976	1000.4	2.1699	.03883	.13519
#1	.00012	.01177	.04025	4.6184	.19013
#2	.00015	-.01564	.04150	4.6209	.18976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**193.39**	**.00013**	**.0411**	**.00920**
Stddev	.00006	.10	.00011	.0292	.00003
%RSD	69.153	.05333	90.993	71.10	.30686
#1	-.00013	193.32	.00021	.0618	.00922
#2	-.00004	193.47	.00005	.0204	.00918
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03100**	**.22185**	**13.371**	**145.05**	**.09507**
Stddev	.00012	.00093	.035	.16	.00056
%RSD	.37725	.41703	.26493	.10773	.59167
#1	.03109	.22250	13.396	144.94	.09547
#2	.03092	.22120	13.346	145.16	.09467
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181290-B-6-A Acquired: 2/19/2021 16:57:33 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**117.85**	**4.3615**	**.00739**	**892.16**	**.11597**
Stddev	.40	.0345	.00025	.48	.00033
%RSD	.34092	.79132	3.3652	.05398	.28559
#1	118.13	4.3370	.00757	891.82	.11574
#2	117.57	4.3859	.00722	892.50	.11621
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.3560**	**.00229**	F **199.8**	**-.00123**	**-.00118**
Stddev	.0007	.00010	.3	.00159	.00051
%RSD	.1871	4.5268	.1401	128.71	43.159
#1	-.3565	.00222	199.6	-.00235	-.00082
#2	-.3556	.00237	200.0	-.00011	-.00154
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.00		
Low Limit			-.2000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.957**	**.00221**	**1.6236**	**-.0052**	**.00770**
Stddev	.037	.00079	.0046	.0076	.00012
%RSD	.16038	35.926	.28280	144.9	1.5359
#1	22.983	.00165	1.6204	-.0106	.00778
#2	22.931	.00277	1.6269	.0001	.00761
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181290-B-6-A Acquired: 2/19/2021 16:57:33 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00049**	**.03366**	**.07963**	**.0053**
Stddev	.00018	.00007	.00021	.0016
%RSD	36.661	.21904	.26389	29.59
#1	-.00062	.03371	.07948	.0042
#2	-.00036	.03361	.07978	.0064
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3616.8**	**3676.5**	**58454.**	**2755.3**
Stddev	5.8	13.8	161.	5.3
%RSD	.16008	.37556	.27623	.19217
#1	3612.7	3666.8	58568.	2759.1
#2	3620.9	3686.3	58340.	2751.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.143%	89.700%	87.318%	98.947%
Range				

Sample Name: 480-181290-B-7-A Acquired: 2/19/2021 17:01:29 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00070**	**-.02594**	**.00083**	**.41418**	**.09306**
Stddev	.00028	.03946	.00107	.00142	.00003
%RSD	40.346	152.14	128.67	.34320	.03277
#1	-.00050	-.05385	.00008	.41318	.09308
#2	-.00090	.00197	.00159	.41519	.09303
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**110.67**	**-.00009**	**-.0388**	**-.00043**
Stddev	.00012	.36	.00012	.0062	.00023
%RSD	103.91	.32580	140.39	15.87	55.210
#1	-.00019	110.93	-.00000	-.0344	-.00059
#2	-.00003	110.42	-.00018	-.0432	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.00145**	**.00539**	**8.1408**	**.00359**
Stddev	.00043	.00024	.00405	.0678	.00352
%RSD	136.37	16.451	75.224	.83226	98.082
#1	.00063	.00162	.00825	8.1888	.00110
#2	.00001	.00128	.00252	8.0929	.00608
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181290-B-7-A Acquired: 2/19/2021 17:01:29 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.654**	**.00649**	**.00017**	**14.473**	**-.00023**
Stddev	.108	.00002	.00018	.069	.00006
%RSD	.28577	.26445	109.94	.47345	26.665
#1	37.730	.00648	.00030	14.425	-.00019
#2	37.578	.00651	.00004	14.522	-.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0344**	**.00035**	**15.32**	**.00069**	**.00053**
Stddev	.0001	.00162	.00	.00014	.00114
%RSD	.3169	455.33	.0286	20.923	214.65
#1	.0343	-.00079	15.32	.00079	-.00027
#2	.0345	.00150	15.32	.00059	.00133
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.211**	**.00062**	**.30045**	**-.0220**	**.00012**
Stddev	.131	.00052	.00064	.0120	.00000
%RSD	.99179	84.404	.21152	54.67	3.0760
#1	13.118	.00099	.30000	-.0135	.00012
#2	13.303	.00025	.30090	-.0305	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181290-B-7-A Acquired: 2/19/2021 17:01:29 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00030**	**.00028**	**.00120**	**.0005**
Stddev	.00133	.00014	.00013	.0019
%RSD	441.90	50.764	10.451	363.9
#1	.00124	.00037	.00112	-.0008
#2	-.00064	.00018	.00129	.0019
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4161.1**	**3890.6**	**63417.**	**2751.7**
Stddev	13.6	15.4	101.	2.3
%RSD	.32726	.39706	.15977	.08389
#1	4151.4	3879.7	63488.	2750.1
#2	4170.7	3901.6	63345.	2753.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.750%	94.924%	94.731%	98.819%
Range				

Sample Name: 480-181290-B-8-A Acquired: 2/19/2021 17:05:11 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**5.0871**	**.00568**	**.49847**	**.06882**
Stddev	.00017	.0578	.00009	.00052	.00013
%RSD	51.465	1.1352	1.5490	.10414	.18517
#1	.00044	5.0463	.00575	.49884	.06891
#2	.00020	5.1279	.00562	.49810	.06873
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**107.17**	**.00008**	**.0549**	**-.00014**
Stddev	.00001	.19	.00021	.0092	.00040
%RSD	21.909	.17897	254.88	16.71	285.80
#1	-.00006	107.03	.00023	.0614	-.00043
#2	-.00008	107.30	-.00006	.0484	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01061**	**.00824**	**6.5748**	**8.9638**	**.00319**
Stddev	.00023	.00017	.0813	.0140	.00006
%RSD	2.1210	2.0295	1.2363	.15655	1.8213
#1	.01045	.00812	6.5173	8.9538	.00323
#2	.01077	.00836	6.6323	8.9737	.00315
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181290-B-8-A Acquired: 2/19/2021 17:05:11 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.773**	**.42918**	**.00143**	**12.884**	**.00045**
Stddev	.007	.00049	.00018	.074	.00022
%RSD	.01809	.11350	12.659	.57313	50.253
#1	37.778	.42952	.00156	12.832	.00060
#2	37.768	.42883	.00130	12.937	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0840**	**-.00040**	**14.17**	**-.00186**	**-.00072**
Stddev	.0014	.00063	.04	.00014	.00305
%RSD	1.669	156.39	.2495	7.3737	422.57
#1	.0830	-.00084	14.19	-.00176	.00144
#2	.0850	.00004	14.14	-.00196	-.00288
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.925**	**.00011**	**.24974**	**.0164**	**.00356**
Stddev	.207	.00087	.00188	.0127	.00017
%RSD	1.0951	796.64	.75389	77.37	4.7541
#1	18.779	.00073	.24841	.0254	.00344
#2	19.072	-.00051	.25107	.0074	.00368
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181290-B-8-A Acquired: 2/19/2021 17:05:11 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.00006**	**.16003**	**-.0001**
Stddev	.00052	.00034	.00033	.0021
%RSD	212.53	597.75	.20650	3928.
#1	-.00061	-.00019	.16026	.0014
#2	.00012	.00030	.15979	-.0015
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4142.0**	**3892.0**	**63657.**	**2725.8**
Stddev	2.9	2.5	4.	5.5
%RSD	.06928	.06351	.00700	.20218
#1	4140.0	3890.3	63654.	2721.9
#2	4144.1	3893.8	63660.	2729.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.345%	94.959%	95.091%	97.887%
Range				

Sample Name: 480-181290-B-9-A Acquired: 2/19/2021 17:08:54 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.00471**	**-.00015**	**.50990**	**.01754**
Stddev	.00008	.02992	.00150	.00075	.00006
%RSD	24.229	634.64	1007.1	.14765	.32548
#1	-.00038	.02587	-.00121	.50937	.01750
#2	-.00027	-.01644	.00091	.51043	.01758
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**121.15**	**-.00005**	**-.0109**	**-.00032**
Stddev	.00005	.27	.00002	.0230	.00009
%RSD	36.217	.22683	39.054	210.6	29.466
#1	-.00009	120.96	-.00004	.0053	-.00025
#2	-.00016	121.35	-.00007	-.0272	-.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**.00226**	**.00343**	**12.216**	**.00475**
Stddev	.00022	.00009	.00623	.048	.00105
%RSD	39.868	3.9198	181.57	.38967	21.993
#1	.00039	.00232	.00783	12.182	.00401
#2	.00070	.00219	-.00097	12.249	.00549
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181290-B-9-A Acquired: 2/19/2021 17:08:54 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**42.867**	**.03006**	**.00095**	**23.362**	**-.00008**
Stddev	.068	.00003	.00001	.124	.00013
%RSD	.15953	.11073	1.0742	.53264	149.50
#1	42.915	.03009	.00094	23.274	-.00017
#2	42.819	.03004	.00096	23.450	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0457**	**-.00020**	**24.26**	**-.00010**	**-.00122**
Stddev	.0018	.00016	.06	.00160	.00041
%RSD	3.981	79.637	.2414	1679.1	33.165
#1	.0470	-.00031	24.22	.00104	-.00094
#2	.0444	-.00009	24.30	-.00123	-.00151
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.467**	**.00070**	**.31269**	**-.0173**	**.00049**
Stddev	.216	.00097	.00136	.0053	.00004
%RSD	1.3130	137.69	.43508	30.99	8.3671
#1	16.314	.00138	.31173	-.0210	.00046
#2	16.620	.00002	.31365	-.0135	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181290-B-9-A Acquired: 2/19/2021 17:08:54 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00059**	**.00149**	**.01480**	**-.0022**
Stddev	.00007	.00001	.00064	.0015
%RSD	11.803	1.0027	4.3308	67.42
#1	.00054	.00150	.01435	-.0011
#2	.00064	.00148	.01526	-.0032
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4160.9**	**3899.1**	**63644.**	**2705.6**
Stddev	.6	.4	164.	1.5
%RSD	.01538	.01147	.25778	.05630
#1	4160.5	3898.8	63528.	2704.5
#2	4161.4	3899.4	63760.	2706.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.747%	95.130%	95.071%	97.162%
Range				

Sample Name: 480-181290-B-10-A Acquired: 2/19/2021 17:12:37 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**2.7915**	**.00652**	**.80994**	**.17754**
Stddev	.00031	.0391	.00050	.00010	.00011
%RSD	168.80	1.3996	7.6448	.01255	.06009
#1	-.00004	2.8192	.00688	.81001	.17762
#2	.00040	2.7639	.00617	.80987	.17747
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**117.33**	**.00012**	**.0704**	**.00310**
Stddev	.00008	.44	.00007	.0208	.00019
%RSD	238.04	.37246	53.343	29.54	6.0924
#1	-.00002	117.64	.00017	.0557	.00296
#2	.00010	117.02	.00008	.0851	.00323
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01095**	**.03733**	**3.8271**	**53.466**	**.02483**
Stddev	.00015	.00032	.0348	.179	.00231
%RSD	1.3679	.86179	.90908	.33554	9.2922
#1	.01106	.03756	3.8517	53.592	.02647
#2	.01084	.03711	3.8025	53.339	.02320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181290-B-10-A Acquired: 2/19/2021 17:12:37 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**32.444**	**.21734**	**.00114**	F **901.39**	**.02241**
Stddev	.052	.00053	.00003	4.49	.00003
%RSD	.15914	.24597	2.7330	.49802	.14818
#1	32.481	.21696	.00116	904.56	.02239
#2	32.408	.21772	.00112	898.22	.02244
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.1084**	**.00316**	**28.89**	**.00218**	**-.00453**
Stddev	.0019	.00081	.02	.00053	.00109
%RSD	1.780	25.712	.0700	24.260	24.068
#1	.1097	.00374	28.90	.00180	-.00376
#2	.1070	.00259	28.87	.00255	-.00530
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.2658**	**.00236**	**.54695**	**.0031**	**.11465**
Stddev	.0514	.00105	.00313	.0140	.00703
%RSD	.55466	44.679	.57261	449.9	6.1290
#1	9.3022	.00311	.54917	.0130	.10968
#2	9.2295	.00162	.54474	-.0068	.11962
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181290-B-10-A Acquired: 2/19/2021 17:12:37 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.01072**	**.05014**	**.0039**
Stddev	.00088	.00007	.00000	.0001
%RSD	308.46	.61098	.00361	1.296
#1	.00034	.01077	.05014	.0038
#2	-.00090	.01067	.05015	.0039
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3628.6**	**3667.4**	**57986.**	**2686.2**
Stddev	15.8	22.2	10.	.0
%RSD	.43648	.60576	.01783	.00101
#1	3639.8	3683.1	57978.	2686.2
#2	3617.4	3651.7	57993.	2686.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.393%	89.477%	86.619%	96.465%
Range				

Sample Name: 480-181290-B-11-A Acquired: 2/19/2021 17:16:23 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.04381**	**.00580**	**.19837**	**.08029**
Stddev	.00016	.00518	.00225	.00057	.00001
%RSD	51.624	11.830	38.737	.28853	.00912
#1	-.00043	.04747	.00421	.19796	.08029
#2	-.00020	.04014	.00739	.19877	.08028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**69.940**	**-.00006**	**.0180**	**.00426**
Stddev	.00002	.171	.00022	.0120	.00007
%RSD	21.424	.24454	391.00	66.38	1.7358
#1	-.00013	70.061	.00010	.0265	.00431
#2	-.00010	69.819	-.00021	.0096	.00421
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**.00246**	**4.8120**	**7.5707**	**.02894**
Stddev	.00019	.00008	.0168	.0023	.00106
%RSD	34.681	3.0687	.34865	.03057	3.6790
#1	.00070	.00241	4.8001	7.5691	.02969
#2	.00042	.00251	4.8238	7.5724	.02819
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181290-B-11-A Acquired: 2/19/2021 17:16:23 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.103**	**2.9969**	**.00294**	**227.95**	**.01178**
Stddev	.001	.0052	.00010	.79	.00017
%RSD	.00847	.17315	3.5692	.34723	1.4395
#1	14.104	3.0006	.00286	228.51	.01190
#2	14.102	2.9933	.00301	227.39	.01166
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0231**	**.00032**	**19.05**	**-.00004**	**-.00271**
Stddev	.0006	.00019	.05	.00029	.00167
%RSD	2.531	59.170	.2419	726.32	61.816
#1	.0227	.00045	19.08	-.00024	-.00152
#2	.0235	.00018	19.02	.00016	-.00389
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.9544**	**.00011**	**.43559**	**-.0100**	**.00103**
Stddev	.0636	.00046	.00093	.0077	.00011
%RSD	1.2835	427.66	.21378	77.27	10.903
#1	4.9094	-.00022	.43624	-.0045	.00111
#2	4.9994	.00044	.43493	-.0154	.00095
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181290-B-11-A Acquired: 2/19/2021 17:16:23 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00096**	**.00267**	**.06717**	**.0013**
Stddev	.00101	.00001	.00013	.0014
%RSD	106.16	.18961	.19335	108.5
#1	-.00167	.00267	.06726	.0022
#2	-.00024	.00268	.06708	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3982.4**	**3833.1**	**61526.**	**2719.6**
Stddev	16.6	21.9	113.	19.7
%RSD	.41670	.57117	.18429	.72445
#1	3994.1	3848.6	61446.	2733.5
#2	3970.7	3817.6	61606.	2705.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.940%	93.520%	91.907%	97.664%
Range				

Sample Name: CCV-6339745 Acquired: 2/19/2021 17:20:17 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.98596**	**50.466**	**1.0183**	**1.0456**	**1.0105**	**1.0256**	**51.474**	**1.0272**
Stddev	.00441	.114	.0004	.0013	.0006	.0003	.020	.0027
%RSD	.44748	.22652	.03559	.12148	.06411	.02919	.03964	.26486
#1	.98284	50.385	1.0186	1.0465	1.0100	1.0258	51.488	1.0292
#2	.98908	50.547	1.0181	1.0447	1.0109	1.0254	51.459	1.0253
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9959**	**1.0170**	**1.0201**	**1.0230**	**50.107**	**51.062**	**.97759**	**51.196**
Stddev	.0310	.0002	.0025	.0002	.173	.035	.00177	.034
%RSD	3.113	.01732	.24559	.01543	.34440	.06767	.18069	.06554
#1	.9740	1.0168	1.0183	1.0231	49.985	51.086	.97634	51.219
#2	1.018	1.0171	1.0219	1.0229	50.229	51.038	.97884	51.172
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0058**	**1.0439**	**50.123**	**1.0219**	**25.61**	**1.0244**	**25.44**	**1.0260**
Stddev	.0056	.0012	.034	.0006	.02	.0002	.02	.0036
%RSD	.55425	.11881	.06770	.05528	.0720	.02028	.0700	.34778
#1	1.0019	1.0430	50.147	1.0215	25.62	1.0245	25.43	1.0285
#2	1.0098	1.0447	50.099	1.0223	25.60	1.0242	25.45	1.0234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6339745 Acquired: 2/19/2021 17:20:17 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0219**	**10.044**	**1.0242**	**1.0086**	**.9782**	**1.0263**	**1.0314**	**1.0251**
Stddev	.0005	.111	.0026	.0003	.0329	.0010	.0012	.0009
%RSD	.05322	1.1024	.25254	.03399	3.363	.10248	.11700	.09133
#1	1.0215	9.9661	1.0224	1.0089	1.001	1.0256	1.0306	1.0244
#2	1.0223	10.123	1.0260	1.0084	.9549	1.0271	1.0323	1.0257
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**1.0321**	**.9154**
Stddev	.0001	.0045
%RSD	.00612	.4903
#1	1.0320	.9186
#2	1.0321	.9122
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4068.2**	**3924.8**	**62483.**	**2667.7**
Stddev	.4	.1	30.	5.6
%RSD	.00871	.00354	.04754	.20917
#1	4068.0	3924.7	62504.	2671.7
#2	4068.5	3924.9	62462.	2663.8

Sample Name: CCB-6338400 Acquired: 2/19/2021 17:23:53 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00068**	**-.02746**	**.00104**	**.00176**	**-.00012**	**-.00002**	**-.00862**	**-.00009**
Stddev	.00053	.00674	.00031	.00095	.00001	.00002	.00053	.00003
%RSD	78.907	24.538	30.000	54.200	11.404	63.317	6.1293	31.061
#1	.00030	-.02270	.00126	.00243	-.00011	-.00004	-.00825	-.00011
#2	.00105	-.03223	.00082	.00109	-.00013	-.00001	-.00900	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0592**	**-.00014**	**.00021**	**-.00025**	**.00365**	**.00513**	**.00016**	**-.00189**
Stddev	.0352	.00006	.00007	.00018	.00317	.01771	.00195	.00071
%RSD	59.52	45.451	34.866	70.509	86.992	345.39	1186.9	37.847
#1	.0343	-.00018	.00026	-.00013	.00589	-.00740	-.00122	-.00239
#2	.0841	-.00009	.00016	-.00038	.00140	.01765	.00154	-.00138
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00125**	**.00965**	**-.00023**	**-.0014**	**-.00088**	**-.0009**	**.00014**
Stddev	.00001	.00066	.00852	.00008	.0028	.00023	.0032	.00002
%RSD	13.380	52.782	88.280	33.355	191.2	25.524	359.6	14.153
#1	-.00009	.00171	.00362	-.00029	.0005	-.00104	-.0031	.00013
#2	-.00008	.00078	.01567	-.00018	-.0034	-.00072	.0014	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6338400 Acquired: 2/19/2021 17:23:53 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00168**	**-.00498**	**.00047**	**-.00027**	**.0002**	**-.00037**	**-.00040**	**-.00023**
Stddev	.00069	.02383	.00025	.00006	.0048	.00002	.00051	.00006
%RSD	40.865	478.25	52.507	20.493	1949.	5.0194	126.61	24.072
#1	-.00120	-.02184	.00065	-.00023	-.0032	-.00036	-.00004	-.00019
#2	-.00217	.01187	.00030	-.00031	.0037	-.00039	-.00076	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**-.00008**	**-.0006**
Stddev	.00019	.0014
%RSD	223.41	234.5
#1	-.00022	-.0016
#2	.00005	.0004
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4646.9**	**4089.8**	**67671.**	**2747.2**
Stddev	.9	2.9	283.	14.9
%RSD	.01870	.06997	.41799	.54328
#1	4646.2	4087.8	67871.	2757.7
#2	4647.5	4091.8	67471.	2736.6

Sample Name: CCVL-6339744 Acquired: 2/19/2021 17:27:41 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00496**	**.15527**	**.01544**	**.02008**	**.00188**	**.00188**	**.49554**	**.00177**
Stddev	.00012	.01870	.00165	.00018	.00001	.00004	.00177	.00001
%RSD	2.4053	12.043	10.710	.88083	.54296	2.0152	.35811	.67340
#1	.00487	.16849	.01427	.01995	.00189	.00185	.49680	.00178
#2	.00504	.14204	.01661	.02020	.00187	.00191	.49429	.00176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0068**	**.00344**	**.00378**	**.00881**	**.03942**	**.48904**	**.02694**	**.19668**
Stddev	.0086	.00002	.00030	.00035	.00772	.00794	.00082	.00143
%RSD	126.4	.55916	7.8650	3.9858	19.577	1.6235	3.0259	.72675
#1	.0007	.00346	.00357	.00906	.04488	.49466	.02752	.19769
#2	.0130	.00343	.00399	.00856	.03397	.48343	.02636	.19567
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00279**	**.00944**	**.92133**	**.00928**	**-.0392**	**.00948**	**.1843**	**.01795**
Stddev	.00002	.00020	.00503	.00024	.0002	.00027	.0039	.00023
%RSD	.76707	2.0882	.54641	2.5963	.5305	2.8682	2.122	1.3042
#1	.00280	.00930	.91777	.00911	-.0391	.00929	.1871	.01779
#2	.00277	.00958	.92489	.00945	-.0394	.00967	.1815	.01812
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVL-6339744 Acquired: 2/19/2021 17:27:41 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02142**	**.43305**	**.00924**	**.00446**	**-.0027**	**.00427**	**.01942**	**.00456**
Stddev	.00116	.00036	.00016	.00000	.0194	.00018	.00089	.00005
%RSD	5.4265	.08222	1.7044	.02396	705.2	4.2544	4.5909	1.1511
#1	.02224	.43330	.00935	.00446	-.0164	.00414	.01879	.00459
#2	.02060	.43280	.00912	.00446	.0109	.00440	.02005	.00452
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**.00936**	**.0000**
Stddev	.00025	.0021
%RSD	2.6855	5755.
#1	.00954	-.0015
#2	.00918	.0015
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4625.9**	**4089.2**	**66954.**	**2742.6**
Stddev	.6	.7	466.	15.0
%RSD	.01308	.01739	.69565	.54753
#1	4625.5	4088.7	66624.	2753.2
#2	4626.4	4089.7	67283.	2732.0

Sample Name: 480-181290-B-12-A Acquired: 2/19/2021 17:31:28 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	**.12964**	**.00539**	**.18969**	**.16788**
Stddev	.00014	.00928	.00137	.00074	.00012
%RSD	36.940	7.1586	25.357	.39205	.07090
#1	-.00048	.12308	.00635	.19021	.16779
#2	-.00028	.13620	.00442	.18916	.16796
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**112.69**	**-.00010**	**.0526**	**.00705**
Stddev	.00004	.21	.00001	.0313	.00016
%RSD	652.36	.18508	14.025	59.50	2.2628
#1	-.00002	112.54	-.00009	.0748	.00717
#2	.00003	112.84	-.00010	.0305	.00694
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.00122**	**9.9049**	**11.149**	**.04129**
Stddev	.00025	.00082	.0083	.006	.00040
%RSD	88.137	67.320	.08367	.05494	.96095
#1	.00047	.00181	9.9107	11.153	.04101
#2	.00011	.00064	9.8990	11.144	.04157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181290-B-12-A Acquired: 2/19/2021 17:31:28 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.772**	**5.6609**	**.00025**	**348.95**	**.00453**
Stddev	.041	.0212	.00019	.63	.00012
%RSD	.16425	.37401	75.700	.18172	2.5465
#1	24.801	5.6459	.00011	349.40	.00445
#2	24.744	5.6758	.00038	348.51	.00461
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0387**	**.00045**	**34.99**	**.00002**	**-.00115**
Stddev	.0004	.00003	.07	.00163	.00176
%RSD	1.078	7.0399	.2026	9289.9	152.55
#1	.0390	.00047	34.94	-.00114	.00009
#2	.0384	.00043	35.04	.00117	-.00239
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.0145**	**.00038**	**.76824**	**-.0180**	**.00230**
Stddev	.0225	.00069	.00066	.0180	.00006
%RSD	.44893	182.86	.08620	100.2	2.5153
#1	4.9985	.00086	.76871	-.0307	.00235
#2	5.0304	-.00011	.76777	-.0052	.00226
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181290-B-12-A Acquired: 2/19/2021 17:31:28 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00039**	**.00518**	**.00453**	**.0027**
Stddev	.00066	.00013	.00051	.0003
%RSD	171.35	2.5259	11.277	12.57
#1	-.00085	.00509	.00416	.0030
#2	.00008	.00527	.00489	.0025
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3854.0**	**3764.7**	**59774.**	**2677.9**
Stddev	5.8	10.4	162.	.4
%RSD	.15150	.27708	.27124	.01442
#1	3858.2	3772.1	59889.	2678.1
#2	3849.9	3757.4	59659.	2677.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.202%	91.853%	89.290%	96.166%
Range				

Sample Name: 480-181244-C-1-B Acquired: 2/19/2021 17:35:21 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**.08340**	**.00998**	**5.1248**	**8.5930**
Stddev	.00075	.00716	.00581	.0081	.1194
%RSD	141.29	8.5863	58.246	.15842	1.3893
#1	-.00000	.07833	.00587	5.1190	8.5086
#2	-.00106	.08846	.01409	5.1305	8.6775
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	F **3780.8**	**.00213**	**.0047**	**.00387**
Stddev	.00007	4.9	.00004	.0179	.00008
%RSD	25.820	.13080	1.6528	381.1	2.1652
#1	-.00023	3777.3	.00215	.0174	.00381
#2	-.00033	3784.3	.00210	-.0080	.00393
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00430**	**.04433**	**4.1262**	F **2596.0**	**.45512**
Stddev	.00048	.00086	.0064	6.3	.00109
%RSD	11.224	1.9308	.15580	.24408	.23862
#1	.00465	.04372	4.1308	2600.5	.45589
#2	.00396	.04493	4.1217	2591.6	.45436
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				540.00	
Low Limit				-.50000	

Sample Name: 480-181244-C-1-B Acquired: 2/19/2021 17:35:21 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**117.78**	**2.0292**	**.01150**	F **9461.9**	**.02615**
Stddev	.32	.0067	.00001	32.8	.00009
%RSD	.27430	.33233	.06399	.34676	.36101
#1	117.55	2.0245	.01150	9438.7	.02609
#2	118.01	2.0340	.01149	9485.1	.02622
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0843**	F **-.01149**	F **96.53**	**.00055**	**-.00023**
Stddev	.0011	.00110	.16	.00057	.00669
%RSD	1.291	9.6043	.1657	103.23	2926.6
#1	.0836	-.01228	96.42	.00095	-.00496
#2	.0851	-.01071	96.64	.00015	.00450
Check ?	None	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit		110.00	90.00		
Low Limit		-.01000	-.2000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.494**	**.01202**	F **32.290**	**-.0053**	**.03606**
Stddev	.019	.00038	.002	.0103	.00104
%RSD	.16928	3.1345	.00652	194.7	2.8976
#1	11.508	.01175	32.288	-.0126	.03532
#2	11.480	.01228	32.291	.0020	.03680
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
High Limit			9.0000		
Low Limit			-.00500		

Sample Name: 480-181244-C-1-B Acquired: 2/19/2021 17:35:21 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00410**	**.00355**	**.02048**	**-.0017**
Stddev	.00105	.00022	.00024	.0019
%RSD	25.528	6.0670	1.1648	114.8
#1	-.00336	.00340	.02064	-.0003
#2	-.00484	.00370	.02031	-.0030
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2259.0**	**2537.2**	**40346.**	**2331.0**
Stddev	4.4	6.3	74.	4.8
%RSD	.19565	.24928	.18285	.20496
#1	2262.2	2541.7	40398.	2334.4
#2	2255.9	2532.7	40293.	2327.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	48.183%	61.903%	60.268%	83.710%
Range				

Sample Name: 480-181244-C-2-B Acquired: 2/19/2021 17:39:40 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.20247**	**.00967**	**3.2788**	**2.0641**
Stddev	.00007	.00844	.00092	.0010	.0137
%RSD	112.67	4.1687	9.4840	.03018	.66454
#1	-.00011	.20844	.01031	3.2781	2.0738
#2	-.00001	.19650	.00902	3.2795	2.0544
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**665.83**	**-.00004**	**.0686**	**.02181**
Stddev	.00004	3.61	.00010	.0167	.00005
%RSD	20.392	.54204	239.31	24.33	.22265
#1	-.00016	668.39	-.00012	.0804	.02177
#2	-.00021	663.28	.00003	.0568	.02184
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01930**	**.01048**	**22.520**	F **623.52**	**.02650**
Stddev	.00012	.00085	.135	2.23	.00010
%RSD	.60255	8.0778	.60074	.35813	.36463
#1	.01938	.01108	22.616	625.10	.02657
#2	.01922	.00988	22.425	621.94	.02643
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				540.00	
Low Limit				-.50000	

Sample Name: 480-181244-C-2-B Acquired: 2/19/2021 17:39:40 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**107.62**	**.81469**	**.00080**	F **2357.4**	**.11167**
Stddev	.00	.00337	.00009	12.1	.00042
%RSD	.00320	.41404	11.013	.51192	.37431
#1	107.62	.81231	.00074	2365.9	.11137
#2	107.63	.81708	.00087	2348.9	.11196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.049**	**.00088**	**19.53**	**.00050**	**-.00127**
Stddev	.009	.00025	.01	.00245	.00025
%RSD	.8153	28.317	.0372	487.69	19.738
#1	1.043	.00105	19.52	.00223	-.00109
#2	1.055	.00070	19.54	-.00123	-.00144
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.155**	**.00581**	**4.9529**	**.0188**	**.04288**
Stddev	.219	.00114	.0192	.0024	.00025
%RSD	1.5451	19.674	.38720	12.69	.58532
#1	14.309	.00661	4.9664	.0171	.04270
#2	14.000	.00500	4.9393	.0204	.04305
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181244-C-2-B Acquired: 2/19/2021 17:39:40 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00095**	**.01334**	**.01953**	**.0187**
Stddev	.00059	.00031	.00060	.0013
%RSD	62.135	2.3496	3.0693	6.753
#1	-.00053	.01356	.01910	.0195
#2	-.00137	.01312	.01995	.0178
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3115.1**	**3303.0**	**51907.**	**2592.8**
Stddev	7.7	14.7	144.	11.2
%RSD	.24792	.44514	.27657	.43228
#1	3109.6	3292.6	52008.	2584.9
#2	3120.6	3313.4	51805.	2600.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	66.441%	80.587%	77.538%	93.110%
Range				

Sample Name: MB 480-570023/1-A Acquired: 2/19/2021 17:43:36 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**-.02964**	**.00132**	**.00396**	**-.00007**
Stddev	.00028	.00182	.00112	.00053	.00001
%RSD	69.686	6.1484	85.129	13.310	18.921
#1	.00021	-.03092	.00211	.00433	-.00008
#2	.00061	-.02835	.00052	.00359	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.04438**	**-.00012**	**.0598**	**-.00021**
Stddev	.00002	.00237	.00014	.0367	.00002
%RSD	19.426	5.3307	122.01	61.38	11.780
#1	-.00014	.04606	-.00022	.0857	-.00019
#2	-.00011	.04271	-.00002	.0338	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**-.00004**	**.00028**	F **1.4926**	**.00017**
Stddev	.00034	.00009	.00094	.0851	.00137
%RSD	254.09	219.98	341.67	5.7031	802.05
#1	-.00011	.00002	.00094	1.5528	.00114
#2	.00038	-.00010	-.00039	1.4325	-.00080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.50000	
Low Limit				-.50000	

Sample Name: MB 480-570023/1-A Acquired: 2/19/2021 17:43:36 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00160**	**.00135**	**-.00086**	**.69324**	**.00007**
Stddev	.00203	.00002	.00021	.00799	.00000
%RSD	127.06	1.3178	24.791	1.1525	.50711
#1	.00016	.00136	-.00071	.69889	.00007
#2	.00303	.00134	-.00101	.68759	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.0045**	**-.00044**	**.0180**	**-.00027**	**-.00271**
Stddev	.0016	.00134	.0006	.00048	.00185
%RSD	36.37	308.07	3.597	175.05	68.265
#1	-.0056	-.00139	.0176	.00007	-.00402
#2	-.0033	.00051	.0185	-.00061	-.00140
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04824**	**.00035**	**.00005**	**.0096**	**-.00049**
Stddev	.03472	.00022	.00014	.0086	.00002
%RSD	71.969	64.639	276.75	89.22	3.4032
#1	.07279	.00051	-.00005	.0157	-.00048
#2	.02369	.00019	.00015	.0036	-.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-570023/1-A Acquired: 2/19/2021 17:43:36 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00052**	**-.00017**	**.00051**	**-.0021**
Stddev	.00002	.00001	.00014	.0001
%RSD	3.1694	6.9395	27.670	3.538
#1	-.00051	-.00016	.00041	-.0022
#2	-.00053	-.00018	.00061	-.0021
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4639.5**	**4078.9**	**67102.**	**2679.5**
Stddev	19.8	23.6	104.	12.3
%RSD	.42636	.57812	.15476	.45743
#1	4625.5	4062.2	67029.	2688.2
#2	4653.4	4095.5	67176.	2670.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.954%	99.517%	100.24%	96.225%
Range				

Sample Name: LCS 480-570023/2-A Acquired: 2/19/2021 17:47:25 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04639**	**9.5860**	**.19844**	**.19758**	**.20885**
Stddev	.00022	.0296	.00161	.00015	.00008
%RSD	.47049	.30847	.81307	.07749	.04011
#1	.04624	9.5650	.19958	.19747	.20879
#2	.04655	9.6069	.19730	.19769	.20891
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20302**	**9.8759**	**.19670**	**.0276**	**.19029**
Stddev	.00038	.0445	.00001	.0064	.00023
%RSD	.18957	.45097	.00447	23.16	.12094
#1	.20329	9.9074	.19670	.0231	.19045
#2	.20274	9.8444	.19671	.0322	.19013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19205**	**.19780**	**9.2307**	**10.446**	**.18408**
Stddev	.00058	.00047	.0111	.031	.00329
%RSD	.30326	.23689	.11998	.29260	1.7874
#1	.19163	.19747	9.2229	10.467	.18641
#2	.19246	.19814	9.2386	10.424	.18176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-570023/2-A Acquired: 2/19/2021 17:47:25 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6818**	**.19487**	**.20305**	**9.8500**	**.19005**
Stddev	.0139	.00016	.00013	.0419	.00017
%RSD	.14369	.08091	.06478	.42572	.08908
#1	9.6720	.19476	.20296	9.8797	.18993
#2	9.6917	.19498	.20315	9.8204	.19017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.6930**	**.19731**	**9.738**	**.19682**	**.19435**
Stddev	.0034	.00024	.002	.00239	.00164
%RSD	.4922	.12311	.0231	1.2165	.84197
#1	-.6954	.19748	9.736	.19851	.19319
#2	-.6906	.19714	9.739	.19513	.19550
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.1423**	**.19129**	**.19682**	**-.0051**	**.19663**
Stddev	.0231	.00089	.00093	.0214	.00022
%RSD	.25268	.46573	.47047	422.0	.10984
#1	9.1260	.19192	.19748	.0101	.19648
#2	9.1587	.19066	.19617	-.0202	.19678
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-570023/2-A Acquired: 2/19/2021 17:47:25 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.19644**	**.19338**	**.19388**	**.0188**
Stddev	.00003	.00055	.00166	.0003
%RSD	.01333	.28484	.85417	1.471
#1	.19642	.19377	.19271	.0190
#2	.19646	.19299	.19505	.0186
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4427.3**	**4051.7**	**66219.**	**2742.4**
Stddev	4.2	9.3	160.	18.0
%RSD	.09586	.22932	.24153	.65580
#1	4430.3	4058.3	66332.	2729.7
#2	4424.3	4045.2	66106.	2755.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.429%	98.855%	98.918%	98.483%
Range				

Sample Name: 480-181278-C-1-A Acquired: 2/19/2021 17:51:00 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**-.02980**	**.00405**	**.01220**	**.04137**
Stddev	.00009	.01178	.00060	.00019	.00002
%RSD	54.528	39.536	14.919	1.5250	.05546
#1	.00023	-.03813	.00447	.01233	.04139
#2	.00010	-.02147	.00362	.01207	.04136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**38.258**	**.00000**	**.0296**	**.00143**
Stddev	.00003	.076	.00008	.0048	.00010
%RSD	47.036	.19802	4031.7	16.29	6.6956
#1	-.00004	38.205	-.00005	.0262	.00150
#2	-.00008	38.312	.00006	.0330	.00136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00162**	**1.2030**	**4.7412**	**.00626**
Stddev	.00010	.00032	.0026	.0518	.00044
%RSD	281.30	19.453	.21632	1.0919	6.9796
#1	.00011	.00140	1.2011	4.7046	.00657
#2	-.00004	.00184	1.2048	4.7778	.00595
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181278-C-1-A Acquired: 2/19/2021 17:51:00 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.1028**	**.86924**	**.00199**	**20.880**	**.00056**
Stddev	.0076	.00576	.00023	.007	.00008
%RSD	.10689	.66298	11.310	.03325	14.580
#1	7.0975	.87332	.00215	20.875	.00062
#2	7.1082	.86517	.00183	20.885	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0941**	**.00005**	**4.859**	**-.00056**	**-.00047**
Stddev	.0013	.00055	.014	.00237	.00284
%RSD	1.431	1016.2	.2768	422.34	599.88
#1	.0951	.00044	4.869	-.00224	-.00248
#2	.0932	-.00033	4.850	.00112	.00153
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.813**	**-.00024**	**.42309**	**-.0053**	**-.00036**
Stddev	.015	.00078	.00047	.0193	.00015
%RSD	.13027	319.23	.11080	365.4	41.717
#1	11.824	.00031	.42275	.0084	-.00047
#2	11.802	-.00079	.42342	-.0189	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181278-C-1-A Acquired: 2/19/2021 17:51:00 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00030**	**-.00036**	**.00445**	**-.0019**
Stddev	.00149	.00018	.00025	.0009
%RSD	496.39	50.790	5.6570	48.17
#1	-.00135	-.00023	.00462	-.0025
#2	.00075	-.00048	.00427	-.0012
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4357.7**	**3983.9**	**65141.**	**2691.2**
Stddev	1.5	3.6	176.	10.4
%RSD	.03448	.09120	.27025	.38592
#1	4358.7	3981.4	65016.	2698.6
#2	4356.6	3986.5	65265.	2683.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.944%	97.201%	97.307%	96.645%
Range				

Sample Name: 480-181278-C-2-A Acquired: 2/19/2021 17:54:44 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**-.01808**	**.00090**	**.00876**	**.04380**
Stddev	.00043	.00813	.00020	.00009	.00010
%RSD	450.50	44.983	22.665	1.0142	.22255
#1	-.00040	-.02383	.00105	.00870	.04374
#2	.00021	-.01233	.00076	.00883	.04387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**6.6552**	**-.00005**	**.0272**	**-.00031**
Stddev	.00004	.0008	.00004	.0106	.00020
%RSD	29.497	.01147	91.915	38.94	65.074
#1	-.00010	6.6557	-.00002	.0347	-.00046
#2	-.00015	6.6547	-.00008	.0197	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.00176**	**.00430**	**2.5723**	**-.00121**
Stddev	.00009	.00052	.01097	.0230	.00121
%RSD	80.690	29.739	255.10	.89375	99.488
#1	.00005	.00213	.01206	2.5885	-.00206
#2	.00017	.00139	-.00346	2.5560	-.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181278-C-2-A Acquired: 2/19/2021 17:54:44 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.64483**	**.01249**	**-.00080**	**35.888**	**-.00000**
Stddev	.00329	.00008	.00003	.001	.00011
%RSD	.51067	.67905	3.2893	.00142	2829.8
#1	.64716	.01255	-.00082	35.888	-.00009
#2	.64250	.01243	-.00078	35.887	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.0072**	**.00002**	**.8289**	**.00021**	**-.00211**
Stddev	.0010	.00085	.0032	.00016	.00095
%RSD	13.69	4408.0	.3887	76.171	44.916
#1	-.0065	.00062	.8311	.00010	-.00278
#2	-.0078	-.00058	.8266	.00032	-.00144
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.9798**	**.00029**	**.12971**	**-.0028**	**-.00065**
Stddev	.0375	.00104	.00022	.0233	.00046
%RSD	.75354	354.04	.17078	837.4	70.812
#1	5.0063	.00103	.12955	-.0192	-.00097
#2	4.9533	-.00044	.12987	.0137	-.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181278-C-2-A Acquired: 2/19/2021 17:54:44 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00014**	**-.00013**	**.00544**	**-.0026**
Stddev	.00094	.00014	.00021	.0005
%RSD	692.65	108.70	3.8924	17.91
#1	.00053	-.00023	.00529	-.0023
#2	-.00080	-.00003	.00559	-.0030
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4368.4**	**3980.8**	**65069.**	**2691.9**
Stddev	19.4	26.2	310.	8.3
%RSD	.44398	.65798	.47683	.30983
#1	4382.1	3999.4	64850.	2697.8
#2	4354.7	3962.3	65288.	2686.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.173%	97.125%	97.200%	96.669%
Range				

Sample Name: 480-181278-C-3-A Acquired: 2/19/2021 17:58:31 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**-.02101**	**.07722**	**.28992**	**.06933**
Stddev	.00089	.00619	.00158	.00018	.00012
%RSD	1372.8	29.458	2.0427	.06154	.16646
#1	-.00056	-.02538	.07833	.28979	.06925
#2	.00069	-.01663	.07610	.29005	.06941
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**52.944**	**-.00000**	**.0729**	**.01197**
Stddev	.00008	.366	.00012	.0104	.00014
%RSD	53.405	.69172	3056.6	14.33	1.1485
#1	-.00020	52.685	-.00009	.0655	.01187
#2	-.00009	53.203	.00008	.0803	.01206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	**.00167**	**33.755**	**24.319**	**.00336**
Stddev	.00025	.00015	.322	.154	.00117
%RSD	57.693	8.9817	.95252	.63297	34.751
#1	.00026	.00156	33.527	24.211	.00254
#2	.00061	.00178	33.982	24.428	.00419
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181278-C-3-A Acquired: 2/19/2021 17:58:31 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.649**	**1.2698**	**.01009**	**39.355**	**.00226**
Stddev	.012	.0000	.00002	.345	.00003
%RSD	.10552	.00295	.20415	.87551	1.4061
#1	11.658	1.2698	.01010	39.112	.00229
#2	11.640	1.2699	.01007	39.599	.00224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.5512**	**.00014**	**1.120**	**-.00258**	**-.00228**
Stddev	.0028	.00081	.001	.00187	.00074
%RSD	.4990	598.91	.0529	72.709	32.395
#1	.5492	.00071	1.120	-.00390	-.00280
#2	.5531	-.00044	1.119	-.00125	-.00175
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.3875**	**.00009**	**.59203**	**.0257**	**-.00028**
Stddev	.1134	.00034	.00541	.0170	.00005
%RSD	1.2077	378.88	.91430	66.09	18.500
#1	9.3073	-.00015	.58820	.0378	-.00024
#2	9.4677	.00033	.59586	.0137	-.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181278-C-3-A Acquired: 2/19/2021 17:58:31 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00106**	**.00027**	**.00538**	**-.0016**
Stddev	.00026	.00021	.00013	.0003
%RSD	24.153	79.151	2.4149	17.03
#1	-.00088	.00012	.00529	-.0014
#2	-.00124	.00042	.00547	-.0018
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4221.3**	**3955.9**	**64518.**	**2721.5**
Stddev	3.7	1.6	170.	18.2
%RSD	.08660	.04047	.26424	.66992
#1	4223.8	3957.1	64398.	2734.4
#2	4218.7	3954.8	64639.	2708.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.034%	96.518%	96.377%	97.733%
Range				

Sample Name: 480-181278-C-4-A Acquired: 2/19/2021 18:02:12 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**-.01347**	**-.00081**	**.01339**	**.00677**
Stddev	.00029	.01440	.00003	.00051	.00002
%RSD	653.22	106.91	3.7265	3.8329	.23690
#1	-.00025	-.00329	-.00079	.01302	.00676
#2	.00016	-.02365	-.00083	.01375	.00678
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**10.504**	**-.00004**	**.0392**	**-.00028**
Stddev	.00001	.005	.00006	.0199	.00004
%RSD	6.0768	.04664	135.58	50.78	14.383
#1	-.00011	10.508	-.00000	.0533	-.00025
#2	-.00010	10.501	-.00009	.0252	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**.00130**	**.00246**	**4.3785**	**-.00114**
Stddev	.00002	.00020	.00128	.0514	.00261
%RSD	7.1948	15.551	51.904	1.1736	228.15
#1	.00026	.00144	.00156	4.3422	.00070
#2	.00028	.00116	.00337	4.4149	-.00299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181278-C-4-A Acquired: 2/19/2021 18:02:12 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.6073**	**.00355**	**-.00080**	**15.415**	**-.00014**
Stddev	.0035	.00003	.00009	.033	.00009
%RSD	.22018	.83071	10.640	.21716	69.962
#1	1.6098	.00357	-.00074	15.391	-.00020
#2	1.6048	.00353	-.00086	15.438	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.0016**	**.00048**	**3.604**	**-.00060**	**.00051**
Stddev	.0011	.00016	.008	.00219	.00113
%RSD	68.43	34.188	.2261	364.60	221.87
#1	-.0008	.00060	3.610	.00095	.00131
#2	-.0023	.00036	3.598	-.00215	-.00029
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.0515**	**-.00024**	**.18556**	**.0038**	**-.00033**
Stddev	.0324	.00004	.00044	.0109	.00017
%RSD	.64081	17.595	.23903	286.2	51.442
#1	5.0287	-.00027	.18524	-.0039	-.00045
#2	5.0744	-.00021	.18587	.0115	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181278-C-4-A Acquired: 2/19/2021 18:02:12 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00109**	**-.00011**	**.00240**	**-.0006**
Stddev	.00023	.00022	.00012	.0021
%RSD	20.881	194.13	4.9459	354.9
#1	-.00093	.00004	.00248	-.0020
#2	-.00125	-.00027	.00231	.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4475.2**	**4039.7**	**65890.**	**2703.5**
Stddev	4.4	2.2	24.	.2
%RSD	.09769	.05470	.03586	.00804
#1	4478.3	4041.2	65874.	2703.6
#2	4472.1	4038.1	65907.	2703.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.451%	98.560%	98.427%	97.085%
Range				

Sample Name: CCV-6339745 Acquired: 2/19/2021 18:05:59 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99764**	**50.265**	**1.0184**	**1.0484**	**1.0226**	**1.0207**	**51.146**	**1.0336**
Stddev	.00041	.139	.0001	.0007	.0007	.0024	.082	.0018
%RSD	.04101	.27601	.00466	.06668	.06448	.23218	.15997	.17534
#1	.99793	50.364	1.0184	1.0489	1.0231	1.0224	51.204	1.0348
#2	.99736	50.167	1.0185	1.0479	1.0221	1.0191	51.088	1.0323
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.014**	**1.0232**	**1.0142**	**1.0226**	**49.388**	**51.648**	**.97415**	**51.139**
Stddev	.002	.0007	.0010	.0011	.103	.125	.00031	.002
%RSD	.1886	.06693	.09844	.10941	.20759	.24133	.03184	.00372
#1	1.015	1.0237	1.0149	1.0234	49.460	51.736	.97437	51.137
#2	1.013	1.0227	1.0135	1.0218	49.315	51.560	.97393	51.140
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0027**	**1.0452**	**50.542**	**1.0212**	**25.51**	**1.0302**	**25.49**	**1.0181**
Stddev	.0015	.0013	.154	.0002	.07	.0015	.05	.0022
%RSD	.14525	.12750	.30375	.02256	.2568	.14270	.2148	.21684
#1	1.0038	1.0442	50.650	1.0211	25.55	1.0312	25.53	1.0197
#2	1.0017	1.0461	50.433	1.0214	25.46	1.0291	25.45	1.0165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6339745 Acquired: 2/19/2021 18:05:59 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0148**	**9.9964**	**1.0159**	**1.0120**	**.9478**	**1.0261**	**1.0353**	**1.0256**
Stddev	.0043	.0212	.0002	.0016	.0102	.0007	.0033	.0003
%RSD	.42279	.21223	.01997	.16214	1.074	.07161	.31642	.03220
#1	1.0178	9.9814	1.0158	1.0132	.9550	1.0256	1.0377	1.0259
#2	1.0117	10.011	1.0161	1.0108	.9406	1.0266	1.0330	1.0254
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**1.0443**	**.8945**
Stddev	.0019	.0053
%RSD	.17842	.5899
#1	1.0457	.8908
#2	1.0430	.8982
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4035.3**	**3899.1**	**62008.**	**2615.2**
Stddev	5.4	4.0	97.	13.4
%RSD	.13479	.10181	.15684	.51345
#1	4039.2	3901.9	61939.	2605.7
#2	4031.5	3896.3	62076.	2624.7

Sample Name: CCB-6338400 Acquired: 2/19/2021 18:09:34 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**-.00697**	**.00050**	**.00074**	**-.00006**	**-.00015**	**-.00074**	**-.00004**
Stddev	.00005	.03495	.00111	.00029	.00003	.00002	.00134	.00007
%RSD	22.536	501.24	223.68	38.878	50.101	13.840	181.20	192.03
#1	-.00026	.01774	.00129	.00094	-.00004	-.00013	.00021	-.00009
#2	-.00019	-.03169	-.00029	.00053	-.00009	-.00016	-.00168	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0220**	**-.00014**	**.00001**	**-.00056**	**-.00305**	**.36465**	**-.00156**	**-.00197**
Stddev	.0140	.00003	.00003	.00033	.00638	.01492	.00027	.00324
%RSD	63.56	19.599	262.86	58.910	209.29	4.0915	17.394	165.05
#1	.0121	-.00016	-.00001	-.00033	.00146	.35410	-.00137	-.00426
#2	.0319	-.00012	.00003	-.00079	-.00756	.37520	-.00175	.00033
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00180**	**.14288**	**.00003**	**-.0038**	**-.00055**	**-.0056**	**.00020**
Stddev	.00000	.00095	.00535	.00001	.0005	.00038	.0013	.00028
%RSD	.11544	52.936	3.7462	42.667	12.45	69.538	22.45	142.19
#1	-.00011	.00247	.14666	.00004	-.0041	-.00081	-.0047	-.00000
#2	-.00011	.00112	.13909	.00002	-.0035	-.00028	-.0065	.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6338400 Acquired: 2/19/2021 18:09:34 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**.00719**	**.00022**	**-.00018**	**.0027**	**-.00037**	**-.00006**	**-.00028**
Stddev	.00032	.01596	.00061	.00002	.0122	.00022	.00097	.00025
%RSD	57.123	222.14	281.72	11.423	445.1	58.112	1746.1	89.315
#1	-.00078	-.00410	.00065	-.00017	.0114	-.00022	-.00074	-.00010
#2	-.00033	.01847	-.00022	-.00020	-.0059	-.00053	.00063	-.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**.00023**	**-.0031**
Stddev	.00008	.0016
%RSD	34.159	51.65
#1	.00028	-.0020
#2	.00017	-.0042
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4668.6**	**4095.7**	**67042.**	**2658.1**
Stddev	13.7	18.3	398.	.9
%RSD	.29411	.44757	.59295	.03229
#1	4658.9	4082.8	66761.	2658.7
#2	4678.3	4108.7	67323.	2657.5

Sample Name: CCVL-6339744 Acquired: 2/19/2021 18:13:22 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00525**	**.15031**	**.01556**	**.01876**	**.00187**	**.00188**	**.49831**
Stddev	.00051	.03017	.00033	.00031	.00001	.00004	.00236
%RSD	9.6406	20.074	2.0922	1.6293	.32053	1.9258	.47444
#1	.00489	.12897	.01579	.01854	.00187	.00191	.49664
#2	.00560	.17164	.01533	.01897	.00188	.00185	.49998
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00184**	**-.0292**	**.00355**	**.00397**	**.00911**	**.03899**	F **.82506**
Stddev	.00000	.0180	.00001	.00003	.00010	.00080	.00427
%RSD	.08325	61.67	.14397	.87312	1.0434	2.0594	.51775
#1	.00184	-.0165	.00355	.00400	.00904	.03842	.82808
#2	.00184	-.0420	.00354	.00395	.00917	.03956	.82204
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							.50000
Range							50.000%

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2136
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02616**	**.19759**	**.00279**	**.00954**	**1.0517**	**.00965**	**-.0375**
Stddev	.00010	.00612	.00007	.00021	.0001	.00003	.0005
%RSD	.36682	3.0951	2.4337	2.1581	.00989	.34926	1.339
#1	.02610	.19327	.00275	.00968	1.0518	.00967	-.0372
#2	.02623	.20192	.00284	.00939	1.0516	.00962	-.0379
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Sample Name: CCVL-6339744 Acquired: 2/19/2021 18:13:22 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00916**	**.1831**	**.01995**	**.02426**	**.43063**	**.00957**	**.00449**
Stddev	.00007	.0005	.00033	.00012	.04534	.00047	.00007
%RSD	.74807	.2741	1.6424	.47562	10.528	4.9075	1.5535
#1	.00912	.1835	.01971	.02418	.39857	.00990	.00444
#2	.00921	.1828	.02018	.02434	.46268	.00924	.00453
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Th2837	Ti3349	Tl1908	V_2924	Zn2062	Zr3438
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0121**	**.00431**	**.02019**	**.00430**	**.00920**	**-.0011**
Stddev	.0140	.00011	.00014	.00032	.00016	.0018
%RSD	115.3	2.5654	.68034	7.3776	1.7890	173.7
#1	-.0220	.00423	.02009	.00453	.00908	-.0023
#2	-.0022	.00438	.02028	.00408	.00931	.0002
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4635.0**	**4095.2**	**67023.**	**2700.4**
Stddev	14.5	14.1	127.	2.5
%RSD	.31219	.34539	.18913	.09195
#1	4645.2	4105.2	66933.	2698.7
#2	4624.7	4085.1	67112.	2702.2

Sample Name: 480-181278-C-5-A Acquired: 2/19/2021 18:17:09 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00075**	**-.00041**	**.03613**	**.26665**	**.07434**
Stddev	.00049	.02982	.00033	.00063	.00009
%RSD	65.198	7254.5	.90512	.23651	.11781
#1	-.00109	-.02150	.03637	.26621	.07428
#2	-.00040	.02067	.03590	.26710	.07441
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**45.428**	**.00013**	**.0063**	**.00224**
Stddev	.00008	.116	.00004	.0293	.00004
%RSD	100.01	.25519	30.342	462.1	1.7428
#1	-.00014	45.346	.00015	-.0144	.00226
#2	-.00002	45.510	.00010	.0271	.00221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**-.00060**	**42.738**	**24.088**	**.00096**
Stddev	.00047	.00041	.299	.125	.00231
%RSD	267.32	68.378	.70067	.51997	239.26
#1	-.00051	-.00031	42.526	23.999	-.00067
#2	.00016	-.00089	42.950	24.176	.00259
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181278-C-5-A Acquired: 2/19/2021 18:17:09 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.9735**	**.87939**	**-.00039**	**34.618**	**.00313**
Stddev	.0014	.00467	.00011	.159	.00014
%RSD	.02083	.53142	27.736	.45866	4.5047
#1	6.9725	.87608	-.00031	34.506	.00323
#2	6.9745	.88269	-.00046	34.731	.00303
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.1720**	**.00030**	**.6764**	**-.00106**	**-.00305**
Stddev	.0017	.00025	.0019	.00236	.00163
%RSD	.9817	82.011	.2744	223.95	53.366
#1	.1732	.00047	.6751	-.00273	-.00190
#2	.1708	.00013	.6777	.00062	-.00420
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.6307**	**.00035**	**.23716**	**.0285**	**-.00018**
Stddev	.0638	.00024	.00080	.0016	.00005
%RSD	.73969	67.497	.33867	5.455	28.273
#1	8.5855	.00018	.23659	.0274	-.00021
#2	8.6758	.00052	.23773	.0296	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181278-C-5-A Acquired: 2/19/2021 18:17:09 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.00045**	**.00733**	**.0008**
Stddev	.00082	.00016	.00020	.0022
%RSD	414.01	36.322	2.6827	276.3
#1	-.00078	.00056	.00747	-.0008
#2	.00038	.00033	.00719	.0024
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4219.6**	**3933.2**	**64070.**	**2683.5**
Stddev	8.6	15.3	175.	14.3
%RSD	.20489	.38811	.27354	.53306
#1	4225.7	3944.0	64194.	2693.7
#2	4213.4	3922.4	63946.	2673.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.998%	95.963%	95.708%	96.369%
Range				

Sample Name: 480-181278-C-6-A Acquired: 2/19/2021 18:20:50 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**.14530**	**.00156**	**.00423**	**.01216**
Stddev	.00006	.01835	.00047	.00003	.00004
%RSD	15.982	12.632	29.890	.61431	.31269
#1	.00035	.15828	.00123	.00421	.01213
#2	.00044	.13232	.00189	.00425	.01219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**2.9333**	**-.00007**	**.0014**	**.00009**
Stddev	.00006	.0041	.00006	.0326	.00011
%RSD	49.247	.13863	82.198	2340.	126.24
#1	-.00008	2.9362	-.00003	-.0216	.00001
#2	-.00017	2.9305	-.00011	.0244	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**.00054**	**.38952**	**1.2082**	**-.00093**
Stddev	.00037	.00037	.00008	.0003	.00026
%RSD	51.584	67.807	.02045	.02560	28.027
#1	.00097	.00080	.38958	1.2084	-.00112
#2	.00045	.00028	.38947	1.2080	-.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181278-C-6-A Acquired: 2/19/2021 18:20:50 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.78124**	**.07064**	**-.00083**	**14.522**	**.00056**
Stddev	.00008	.00042	.00001	.079	.00003
%RSD	.01016	.59122	1.2341	.54158	4.8269
#1	.78130	.07035	-.00084	14.578	.00058
#2	.78119	.07094	-.00082	14.466	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0111**	**.00080**	**1.681**	**-.00090**	**.00204**
Stddev	.0009	.00071	.004	.00017	.00025
%RSD	8.098	88.571	.2211	19.308	12.340
#1	.0117	.00130	1.678	-.00078	.00221
#2	.0105	.00030	1.684	-.00102	.00186
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.2985**	**.00011**	**.02680**	**-.0123**	**.00120**
Stddev	.0183	.00009	.00017	.0052	.00020
%RSD	.55596	81.989	.63087	42.45	16.596
#1	3.3115	.00005	.02692	-.0086	.00106
#2	3.2855	.00017	.02669	-.0160	.00134
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181278-C-6-A Acquired: 2/19/2021 18:20:50 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00048**	**.00018**	**.00666**	**-.0017**
Stddev	.00018	.00016	.00013	.0016
%RSD	37.602	85.418	2.0054	93.06
#1	-.00061	.00007	.00675	-.0028
#2	-.00036	.00029	.00656	-.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4538.7**	**4071.3**	**66235.**	**2679.5**
Stddev	15.7	19.3	40.	13.4
%RSD	.34543	.47305	.05987	.49988
#1	4527.7	4057.7	66263.	2670.1
#2	4549.8	4084.9	66207.	2689.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.806%	99.332%	98.942%	96.225%
Range				

Sample Name: 480-181278-C-7-A Acquired: 2/19/2021 18:24:36 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.12369**	**.00007**	**.00442**	**.01239**
Stddev	.00018	.02568	.00038	.00022	.00001
%RSD	38.975	20.761	521.86	4.9007	.09381
#1	-.00033	.10553	.00034	.00426	.01240
#2	-.00057	.14185	-.00019	.00457	.01238
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**3.3322**	**-.00007**	**.0451**	**.00020**
Stddev	.00002	.0145	.00004	.0361	.00008
%RSD	42.955	.43547	57.330	79.99	39.132
#1	-.00003	3.3424	-.00009	.0706	.00025
#2	-.00006	3.3219	-.00004	.0196	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00077**	**.00032**	**.43024**	**1.1424**	**-.00193**
Stddev	.00010	.00008	.00629	.0042	.00115
%RSD	13.539	26.017	1.4628	.36564	59.796
#1	.00084	.00037	.43469	1.1395	-.00111
#2	.00069	.00026	.42579	1.1454	-.00274
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181278-C-7-A Acquired: 2/19/2021 18:24:36 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.81474**	**.07337**	**-.00077**	**20.315**	**.00077**
Stddev	.00457	.00036	.00011	.098	.00014
%RSD	.56131	.48847	13.901	.48283	17.551
#1	.81797	.07362	-.00070	20.384	.00087
#2	.81150	.07311	-.00085	20.245	.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0082**	**.00067**	**1.799**	**-.00124**	**-.00097**
Stddev	.0044	.00084	.002	.00044	.00225
%RSD	54.10	125.96	.0991	35.571	232.13
#1	.0114	.00007	1.798	-.00155	.00062
#2	.0051	.00127	1.801	-.00093	-.00257
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.1860**	**.00010**	**.02863**	**-.0005**	**.00171**
Stddev	.0243	.00006	.00003	.0121	.00012
%RSD	.76229	61.492	.09918	2261.	6.8508
#1	3.2032	.00006	.02865	-.0091	.00163
#2	3.1688	.00015	.02861	.0080	.00179
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181278-C-7-A Acquired: 2/19/2021 18:24:36 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00072**	**-.00018**	**.00834**	**-.0012**
Stddev	.00070	.00020	.00029	.0019
%RSD	96.683	108.81	3.4623	156.3
#1	-.00121	-.00004	.00855	-.0025
#2	-.00023	-.00032	.00814	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4468.1**	**4039.6**	**66414.**	**2717.7**
Stddev	1.6	6.2	227.	16.3
%RSD	.03665	.15286	.34196	.59971
#1	4467.0	4035.2	66253.	2706.2
#2	4469.3	4043.9	66575.	2729.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.300%	98.558%	99.209%	97.598%
Range				

Sample Name: 480-181278-C-8-A Acquired: 2/19/2021 18:28:21 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00074**	**.12191**	**-.00065**	**.00542**	**.01288**
Stddev	.00028	.01118	.00239	.00009	.00001
%RSD	38.241	9.1689	368.03	1.5955	.08790
#1	-.00094	.12982	-.00234	.00548	.01287
#2	-.00054	.11401	.00104	.00535	.01288
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**3.6759**	**.00004**	**-.0187**	**.00029**
Stddev	.00006	.0089	.00002	.0027	.00001
%RSD	279.04	.24106	46.312	14.28	2.0446
#1	-.00006	3.6821	.00003	-.0168	.00029
#2	.00002	3.6696	.00006	-.0206	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00102**	**.00038**	**.47519**	**1.2337**	**-.00099**
Stddev	.00006	.00021	.00492	.0374	.00095
%RSD	5.7449	55.274	1.0356	3.0285	96.261
#1	.00097	.00054	.47867	1.2601	-.00166
#2	.00106	.00023	.47171	1.2073	-.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181278-C-8-A Acquired: 2/19/2021 18:28:21 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.85866**	**.07385**	**-.00092**	**26.046**	**.00080**
Stddev	.00146	.00015	.00017	.104	.00004
%RSD	.16979	.19804	18.065	.39968	5.5838
#1	.85970	.07375	-.00104	26.120	.00077
#2	.85763	.07396	-.00080	25.973	.00084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0059**	**.00101**	**3.021**	**-.00094**	**-.00234**
Stddev	.0020	.00045	.002	.00051	.00172
%RSD	33.64	44.723	.0708	54.559	73.469
#1	.0045	.00133	3.020	-.00058	-.00113
#2	.0073	.00069	3.023	-.00130	-.00356
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.1669**	**.00023**	**.03083**	**.0082**	**.00218**
Stddev	.0418	.00005	.00000	.0016	.00008
%RSD	1.3183	20.607	.00445	19.55	3.5356
#1	3.1964	.00020	.03083	.0094	.00224
#2	3.1374	.00026	.03083	.0071	.00213
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181278-C-8-A Acquired: 2/19/2021 18:28:21 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00067**	**.00015**	**.01042**	**-.0021**
Stddev	.00085	.00041	.00018	.0029
%RSD	126.12	266.51	1.7403	136.2
#1	-.00007	.00044	.01055	-.0042
#2	-.00127	-.00014	.01029	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4444.6**	**4023.1**	**65904.**	**2704.1**
Stddev	9.3	11.5	43.	21.7
%RSD	.20830	.28468	.06494	.80278
#1	4451.2	4031.2	65935.	2688.7
#2	4438.1	4015.0	65874.	2719.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.798%	98.157%	98.448%	97.107%
Range				

Sample Name: 480-181275-F-1-A Acquired: 2/19/2021 18:32:07 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00100**	**.00754**	**.00332**	**3.2081**	**.39326**
Stddev	.00041	.03045	.00128	.0023	.00282
%RSD	41.017	403.60	38.504	.07242	.71714
#1	-.00071	-.01398	.00242	3.2065	.39525
#2	-.00129	.02907	.00422	3.2098	.39126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**116.24**	**.00002**	**-.0368**	**.00691**
Stddev	.00008	.05	.00002	.0243	.00027
%RSD	101.11	.04132	124.23	65.97	3.8924
#1	-.00013	116.28	.00000	-.0196	.00710
#2	-.00002	116.21	.00003	-.0539	.00672
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00855**	**.00238**	**8.0213**	**232.50**	**.03870**
Stddev	.00016	.00024	.0301	.03	.00109
%RSD	1.9155	10.240	.37547	.01497	2.8171
#1	.00867	.00255	8.0000	232.47	.03793
#2	.00844	.00220	8.0426	232.52	.03947
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181275-F-1-A Acquired: 2/19/2021 18:32:07 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**134.58**	**.09741**	**.00000**	**727.42**	**.03073**
Stddev	.01	.00001	.00016	.05	.00046
%RSD	.00778	.00924	13021.	.00729	1.4850
#1	134.57	.09741	.00011	727.38	.03105
#2	134.59	.09742	-.00011	727.45	.03040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.3911**	**.00534**	**10.57**	**.00012**	**-.00462**
Stddev	.0034	.00014	.00	.00038	.00274
%RSD	.8616	2.7099	.0243	328.90	59.337
#1	.3887	.00524	10.57	.00039	-.00656
#2	.3935	.00544	10.57	-.00015	-.00268
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.443**	**.01059**	**.87828**	**-.0152**	**.00334**
Stddev	.088	.00032	.00123	.0096	.00035
%RSD	.76473	3.0578	.13972	63.37	10.517
#1	11.381	.01081	.87915	-.0220	.00359
#2	11.505	.01036	.87741	-.0084	.00309
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181275-F-1-A Acquired: 2/19/2021 18:32:07 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00055**	**.00050**	**.05473**	**.0023**
Stddev	.00040	.00019	.00017	.0006
%RSD	73.377	38.702	.30198	27.83
#1	-.00026	.00036	.05461	.0019
#2	-.00083	.00064	.05484	.0028
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3609.3**	**3629.2**	**57241.**	**2635.2**
Stddev	11.3	13.3	24.	7.1
%RSD	.31303	.36765	.04276	.27100
#1	3601.3	3619.8	57258.	2640.3
#2	3617.2	3638.6	57223.	2630.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.981%	88.546%	85.506%	94.634%
Range				

Sample Name: 480-181293-H-1-A Acquired: 2/19/2021 18:36:05 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**-.02749**	**-.00007**	**.14269**	**.02554**
Stddev	.00020	.04526	.00074	.00070	.00002
%RSD	155.89	164.63	995.55	.49108	.06082
#1	.00001	.00451	.00045	.14319	.02555
#2	-.00026	-.05950	-.00060	.14219	.02553
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**148.42**	**.00017**	**.0871**	**-.00029**
Stddev	.00007	.18	.00005	.0103	.00013
%RSD	99.546	.11884	27.758	11.87	44.587
#1	-.00012	148.29	.00021	.0944	-.00020
#2	-.00002	148.54	.00014	.0797	-.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00077**	**.00126**	**.04994**	**5.4950**	**.07603**
Stddev	.00038	.00014	.00434	.0468	.00116
%RSD	49.936	11.478	8.6907	.85166	1.5280
#1	.00050	.00116	.04687	5.5281	.07685
#2	.00104	.00136	.05300	5.4619	.07520
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181293-H-1-A Acquired: 2/19/2021 18:36:05 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**87.024**	**.12037**	**.00098**	**51.593**	**.00122**
Stddev	.061	.00028	.00004	.064	.00010
%RSD	.07044	.23350	4.1864	.12358	8.2727
#1	86.981	.12057	.00095	51.548	.00115
#2	87.068	.12017	.00101	51.638	.00129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0105**	**-.00051**	F **128.7**	**.00026**	**-.00378**
Stddev	.0004	.00034	.0	.00000	.00179
%RSD	4.034	66.152	.0108	1.8257	47.211
#1	.0108	-.00075	128.7	.00026	-.00505
#2	.0102	-.00027	128.7	.00027	-.00252
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.00		
Low Limit			-.2000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.1153**	**.00049**	**2.4294**	**-.0280**	**.00125**
Stddev	.0136	.00077	.0041	.0149	.00008
%RSD	.22260	156.63	.16795	53.25	6.7733
#1	6.1057	.00103	2.4265	-.0175	.00119
#2	6.1250	-.00005	2.4323	-.0386	.00131
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181293-H-1-A Acquired: 2/19/2021 18:36:05 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00017**	**-.00030**	**.00145**	**-.0002**
Stddev	.00003	.00023	.00022	.0001
%RSD	16.015	75.717	15.234	43.24
#1	.00019	-.00046	.00130	-.0002
#2	.00015	-.00014	.00161	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4056.9**	**3860.5**	**62608.**	**2685.0**
Stddev	11.8	17.0	23.	14.5
%RSD	.28988	.44009	.03690	.53824
#1	4065.2	3872.5	62591.	2695.2
#2	4048.6	3848.5	62624.	2674.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.528%	94.190%	93.523%	96.420%
Range				

Sample Name: 480-181293-H-1-ASD@5 Acquired: 2/19/2021 18:39:47 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**-.03126**	**.00120**	**.02846**	**.00508**
Stddev	.00036	.00783	.00034	.00022	.00003
%RSD	147.58	25.043	27.880	.77403	.63392
#1	-.00050	-.03680	.00144	.02862	.00506
#2	.00001	-.02573	.00097	.02830	.00511
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**29.882**	**.00004**	**.0366**	**-.00025**
Stddev	.00014	.026	.00000	.0058	.00004
%RSD	75.294	.08701	1.5947	15.90	14.451
#1	-.00009	29.901	.00004	.0325	-.00022
#2	-.00029	29.864	.00004	.0407	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**-.00028**	**.00166**	**1.1755**	**.01601**
Stddev	.00028	.00024	.00530	.0076	.00067
%RSD	470.80	84.968	319.09	.64451	4.2057
#1	-.00014	-.00011	.00541	1.1702	.01554
#2	.00026	-.00044	-.00209	1.1809	.01649
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181293-H-1-ASD@5 Acquired: 2/19/2021 18:39:47 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.962**	**.02402**	**-.00057**	**10.085**	**.00007**
Stddev	.002	.00002	.00021	.040	.00014
%RSD	.01220	.09607	36.849	.39351	210.21
#1	16.960	.02400	-.00072	10.113	.00017
#2	16.963	.02404	-.00042	10.057	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.0026**	**.00017**	**24.76**	**.00099**	**-.00339**
Stddev	.0005	.00048	.01	.00079	.00188
%RSD	19.87	278.85	.0347	79.087	55.433
#1	-.0022	.00052	24.76	.00044	-.00206
#2	-.0030	-.00017	24.75	.00155	-.00472
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1835**	**.00050**	**.48222**	**-.0126**	**.00001**
Stddev	.0165	.00079	.00214	.0179	.00006
%RSD	1.3945	157.59	.44334	141.8	486.06
#1	1.1952	.00106	.48373	-.0253	-.00003
#2	1.1719	-.00006	.48071	.0000	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181293-H-1-ASD@5 Acquired: 2/19/2021 18:39:47 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00006**	**-.00019**	**-.00013**	**-.0011**
Stddev	.00019	.00010	.00010	.0041
%RSD	332.39	52.144	75.240	375.0
#1	-.00008	-.00026	-.00019	.0018
#2	.00019	-.00012	-.00006	-.0039
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4373.0**	**3996.1**	**64810.**	**2673.8**
Stddev	3.2	3.7	29.	.2
%RSD	.07332	.09353	.04466	.00651
#1	4370.7	3993.5	64830.	2673.9
#2	4375.3	3998.8	64789.	2673.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.271%	97.498%	96.813%	96.020%
Range				

Sample Name: 480-181293-H-1-APDS Acquired: 2/19/2021 18:43:32 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05027**	**9.9097**	**.21202**	**.34191**	**.23805**
Stddev	.00108	.0285	.00188	.00024	.00092
%RSD	2.1393	.28742	.88827	.06911	.38542
#1	.05103	9.8895	.21335	.34174	.23870
#2	.04951	9.9298	.21069	.34208	.23740
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20730**	**153.11**	**.20772**	**.0589**	**.19935**
Stddev	.00030	.20	.00012	.0282	.00014
%RSD	.14509	.12978	.05913	47.98	.07145
#1	.20751	153.25	.20780	.0789	.19945
#2	.20709	152.97	.20763	.0389	.19925
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19729**	**.20622**	**9.3480**	**15.741**	**.27268**
Stddev	.00018	.00080	.0459	.033	.00412
%RSD	.09111	.38754	.49045	.20748	1.5114
#1	.19742	.20678	9.3156	15.764	.26977
#2	.19717	.20565	9.3804	15.718	.27559
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181293-H-1-APDS Acquired: 2/19/2021 18:43:32 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**93.644**	**.31287**	**.21254**	**62.008**	**.19881**
Stddev	.173	.00034	.00053	.089	.00031
%RSD	.18518	.11015	.25019	.14413	.15818
#1	93.522	.31262	.21217	61.945	.19859
#2	93.767	.31311	.21292	62.071	.19903
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.6329**	**.20587**	F **133.4**	**.20739**	**.20419**
Stddev	.0012	.00170	.2	.00339	.00118
%RSD	.1855	.82632	.1474	1.6347	.57656
#1	-.6321	.20708	133.3	.20979	.20502
#2	-.6337	.20467	133.6	.20499	.20335
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.00		
Low Limit			-.2000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.770**	**.20188**	**2.5599**	**.0147**	**.20549**
Stddev	.102	.00185	.0020	.0017	.00022
%RSD	.64460	.91634	.07855	11.56	.10703
#1	15.698	.20319	2.5585	.0135	.20533
#2	15.842	.20057	2.5613	.0159	.20564
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181293-H-1-APDS Acquired: 2/19/2021 18:43:32 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.20296**	**.20176**	**.19924**	**.0260**
Stddev	.00017	.00002	.00117	.0014
%RSD	.08414	.01101	.58498	5.246
#1	.20308	.20178	.19842	.0269
#2	.20284	.20174	.20007	.0250
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3932.9**	**3787.6**	**61401.**	**2600.4**
Stddev	4.1	2.7	234.	16.5
%RSD	.10431	.07198	.38094	.63491
#1	3930.0	3785.6	61566.	2612.1
#2	3935.8	3789.5	61235.	2588.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.884%	92.410%	91.720%	93.384%
Range				

Sample Name: 480-181293-H-1-B MS Acquired: 2/19/2021 18:47:07 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04983**	**9.8783**	**.21234**	**.34278**	**.23546**
Stddev	.00004	.0314	.00226	.00021	.00071
%RSD	.07713	.31748	1.0648	.06088	.30189
#1	.04985	9.8562	.21074	.34263	.23496
#2	.04980	9.9005	.21394	.34293	.23596
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20542**	**155.89**	**.20555**	**.0525**	**.19762**
Stddev	.00038	.03	.00049	.0107	.00031
%RSD	.18280	.01986	.23716	20.47	.15870
#1	.20568	155.87	.20521	.0601	.19740
#2	.20515	155.91	.20590	.0449	.19784
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19670**	**.20525**	**9.2357**	**15.666**	**.27481**
Stddev	.00048	.00076	.0363	.086	.00236
%RSD	.24655	.37082	.39342	.54765	.85976
#1	.19704	.20471	9.2100	15.727	.27314
#2	.19635	.20579	9.2614	15.605	.27648
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181293-H-1-B MS Acquired: 2/19/2021 18:47:07 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**95.993**	**.31370**	**.21122**	**63.491**	**.19754**
Stddev	.014	.00146	.00036	.340	.00012
%RSD	.01436	.46636	.17104	.53626	.05907
#1	96.002	.31267	.21096	63.251	.19745
#2	95.983	.31474	.21147	63.732	.19762
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.6286**	**.20356**	F **136.9**	**.20836**	**.20775**
Stddev	.0010	.00114	.3	.00038	.00134
%RSD	.1610	.56102	.2224	.18301	.64411
#1	-.6279	.20276	136.6	.20809	.20681
#2	-.6293	.20437	137.1	.20863	.20870
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.00		
Low Limit			-.2000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.450**	**.20330**	**2.6020**	**-.0078**	**.20464**
Stddev	.159	.00014	.0052	.0028	.00054
%RSD	1.0272	.06769	.19802	36.55	.26356
#1	15.338	.20321	2.5984	-.0098	.20502
#2	15.562	.20340	2.6057	-.0058	.20425
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181293-H-1-B MS Acquired: 2/19/2021 18:47:07 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.20220**	**.20056**	**.19491**	**.0082**
Stddev	.00003	.00063	.00153	.0000
%RSD	.01584	.31303	.78370	.1061
#1	.20223	.20012	.19383	.0082
#2	.20218	.20101	.19599	.0082
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3969.8**	**3820.4**	**62146.**	**2637.6**
Stddev	.5	.7	52.	4.1
%RSD	.01257	.01702	.08394	.15615
#1	3969.5	3820.0	62109.	2634.7
#2	3970.2	3820.9	62183.	2640.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.671%	93.212%	92.833%	94.721%
Range				

Sample Name: CCV-6339745 Acquired: 2/19/2021 18:50:42 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0019**	**50.406**	**1.0171**	**1.0524**	**1.0279**	**1.0271**	**51.651**	**1.0364**
Stddev	.0039	.350	.0023	.0012	.0050	.0050	.290	.0002
%RSD	.39048	.69493	.22950	.11017	.48671	.48763	.56221	.02272
#1	.99917	50.654	1.0188	1.0516	1.0314	1.0307	51.857	1.0366
#2	1.0047	50.158	1.0155	1.0533	1.0244	1.0236	51.446	1.0362
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.023**	**1.0312**	**1.0210**	**1.0232**	**49.607**	**52.062**	**.97745**	**51.607**
Stddev	.001	.0002	.0009	.0014	.622	.228	.00408	.055
%RSD	.1327	.02196	.08605	.13988	1.2546	.43833	.41789	.10569
#1	1.022	1.0314	1.0203	1.0242	50.047	52.223	.98034	51.569
#2	1.024	1.0311	1.0216	1.0221	49.167	51.900	.97456	51.646
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0090**	**1.0461**	**50.767**	**1.0283**	**26.02**	**1.0395**	**25.85**	**1.0108**
Stddev	.0038	.0013	.287	.0002	.00	.0002	.04	.0018
%RSD	.37408	.12275	.56488	.01632	.0001	.02168	.1416	.18041
#1	1.0063	1.0452	50.969	1.0284	26.02	1.0396	25.87	1.0121
#2	1.0117	1.0470	50.564	1.0281	26.02	1.0393	25.82	1.0095
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6339745 Acquired: 2/19/2021 18:50:42 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0240**	**10.014**	**1.0184**	**1.0199**	**.9328**	**1.0305**	**1.0449**	**1.0277**
Stddev	.0050	.007	.0013	.0053	.0192	.0006	.0008	.0029
%RSD	.48937	.06845	.12917	.51733	2.056	.05543	.07859	.28545
#1	1.0275	10.009	1.0193	1.0237	.9193	1.0309	1.0443	1.0256
#2	1.0204	10.019	1.0174	1.0162	.9464	1.0301	1.0455	1.0297
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**1.0529**	**.8779**
Stddev	.0023	.0028
%RSD	.22131	.3219
#1	1.0513	.8759
#2	1.0545	.8799
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4064.8**	**3948.5**	**62262.**	**2614.1**
Stddev	.4	2.1	291.	11.7
%RSD	.00926	.05372	.46688	.44819
#1	4064.5	3947.0	62468.	2605.8
#2	4065.0	3950.0	62057.	2622.4

Sample Name: CCB-6338400 Acquired: 2/19/2021 18:54:18 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**-.01362**	**-.00010**	**.00055**	**-.00008**	**-.00004**	**-.00673**	**-.00016**
Stddev	.00012	.05357	.00066	.00009	.00001	.00009	.00306	.00013
%RSD	50.567	393.28	682.67	15.842	13.866	212.24	45.510	84.129
#1	.00031	-.05150	-.00056	.00061	-.00007	.00002	-.00890	-.00006
#2	.00015	.02426	.00037	.00049	-.00008	-.00011	-.00456	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0475**	**-.00021**	**-.00006**	**.00014**	**-.00228**	**.07039**	**-.00164**	**-.00102**
Stddev	.0029	.00001	.00009	.00023	.00043	.04809	.00084	.00158
%RSD	6.136	3.3154	137.76	170.65	18.914	68.316	51.314	154.35
#1	.0495	-.00021	-.00000	-.00003	-.00197	.10440	-.00224	.00009
#2	.0454	-.00020	-.00012	.00030	-.00258	.03639	-.00105	-.00214
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00142**	**.02350**	**.00019**	**-.0026**	**-.00020**	**.0067**	**.00222**
Stddev	.00001	.00070	.01038	.00002	.0004	.00052	.0015	.00024
%RSD	6.5104	49.288	44.164	8.0948	15.86	259.85	22.28	10.942
#1	-.00011	.00191	.03085	.00018	-.0023	-.00056	.0057	.00205
#2	-.00010	.00092	.01616	.00020	-.0029	.00017	.0078	.00239
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6338400 Acquired: 2/19/2021 18:54:18 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00915**	**.00019**	**-.00025**	**-.0090**	**-.00054**	**-.00004**	**-.00030**
Stddev	.00135	.00731	.00034	.00003	.0303	.00023	.00016	.00004
%RSD	2164.4	79.867	176.90	11.340	336.5	42.712	389.76	12.834
#1	.00089	.01432	-.00005	-.00027	-.0305	-.00038	.00007	-.00033
#2	-.00102	.00398	.00043	-.00023	.0124	-.00071	-.00016	-.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**.00028**	**-.0026**
Stddev	.00029	.0019
%RSD	105.15	73.28
#1	.00048	-.0013
#2	.00007	-.0040
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4641.7**	**4088.4**	**67121.**	**2682.5**
Stddev	9.7	11.2	178.	8.0
%RSD	.20839	.27447	.26471	.29997
#1	4648.5	4096.4	67247.	2676.8
#2	4634.8	4080.5	66995.	2688.1

Sample Name: CCVL-6339744 Acquired: 2/19/2021 18:58:06 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00589**	**.16191**	**.01490**	**.01879**	**.00189**	**.00175**	**.49334**	**.00181**
Stddev	.00037	.03043	.00004	.00026	.00000	.00004	.00358	.00023
%RSD	6.3490	18.793	.27525	1.3883	.09100	2.4061	.72630	12.519
#1	.00615	.14039	.01493	.01860	.00189	.00172	.49588	.00165
#2	.00562	.18343	.01487	.01897	.00189	.00178	.49081	.00197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0098**	**.00356**	**.00364**	**.00921**	**.04208**	**.56760**	**.02595**	**.19611**
Stddev	.0214	.00024	.00013	.00004	.00303	.01664	.00167	.00447
%RSD	218.2	6.6984	3.5816	.42637	7.1898	2.9318	6.4189	2.2778
#1	.0053	.00373	.00355	.00924	.03994	.57936	.02713	.19295
#2	-.0249	.00339	.00373	.00918	.04422	.55583	.02477	.19927
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00279**	**.00954**	**.96846**	**.00940**	**-.0400**	**.00918**	**.1866**	**.01842**
Stddev	.00001	.00002	.00167	.00004	.0005	.00027	.0026	.00133
%RSD	.53237	.18582	.17261	.41025	1.358	2.9042	1.370	7.2439
#1	.00280	.00955	.96728	.00937	-.0396	.00899	.1884	.01936
#2	.00278	.00953	.96964	.00942	-.0403	.00937	.1848	.01748
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVL-6339744 Acquired: 2/19/2021 18:58:06 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02334**	**.45040**	**.00899**	**.00445**	**-.0217**	**.00447**	**.01929**	**.00460**
Stddev	.00367	.00440	.00023	.00002	.0056	.00005	.00004	.00023
%RSD	15.742	.97800	2.5114	.50725	25.99	1.2285	.21610	5.1021
#1	.02075	.45352	.00915	.00446	-.0177	.00451	.01926	.00477
#2	.02594	.44729	.00883	.00443	-.0256	.00444	.01932	.00443
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**.00929**	**-.0015**
Stddev	.00002	.0022
%RSD	.26731	143.7
#1	.00928	-.0031
#2	.00931	.0000
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4639.2**	**4080.2**	**66595.**	**2674.5**
Stddev	15.2	14.9	290.	13.1
%RSD	.32796	.36423	.43576	.49020
#1	4628.4	4069.7	66390.	2683.8
#2	4650.0	4090.8	66800.	2665.2

Sample Name: 480-181293-H-1-C MSD Acquired: 2/19/2021 19:01:53 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04921**	**9.6850**	**.21037**	**.34319**	**.23375**
Stddev	.00069	.0283	.00010	.00023	.00006
%RSD	1.4042	.29250	.04535	.06665	.02614
#1	.04970	9.6650	.21044	.34302	.23379
#2	.04872	9.7051	.21031	.34335	.23370
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20398**	**157.09**	**.20433**	**.0738**	**.19672**
Stddev	.00057	.06	.00004	.0174	.00051
%RSD	.28071	.04036	.01796	23.61	.26082
#1	.20439	157.13	.20430	.0862	.19708
#2	.20358	157.04	.20435	.0615	.19636
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19380**	**.20286**	**9.1463**	**15.537**	**.27066**
Stddev	.00136	.00134	.0325	.027	.00134
%RSD	.69983	.65882	.35516	.17332	.49473
#1	.19284	.20381	9.1233	15.556	.26971
#2	.19476	.20192	9.1693	15.518	.27160
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181293-H-1-C MSD Acquired: 2/19/2021 19:01:53 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**96.847**	**.31132**	**.20952**	**63.365**	**.19651**
Stddev	.305	.00037	.00059	.488	.00020
%RSD	.31460	.11755	.28327	.77011	.10304
#1	96.631	.31106	.20994	63.710	.19665
#2	97.062	.31157	.20911	63.019	.19637
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.6302**	**.20368**	F **138.8**	**.20489**	**.20475**
Stddev	.0003	.00113	.1	.00185	.00147
%RSD	.0504	.55535	.0495	.90176	.72006
#1	-.6300	.20448	138.9	.20619	.20579
#2	-.6305	.20288	138.8	.20358	.20371
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.00		
Low Limit			-.2000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.354**	**.20184**	**2.6189**	**-.0054**	**.20298**
Stddev	.007	.00019	.0012	.0009	.00019
%RSD	.04787	.09405	.04413	16.10	.09294
#1	15.359	.20171	2.6197	-.0061	.20311
#2	15.349	.20198	2.6181	-.0048	.20284
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181293-H-1-C MSD Acquired: 2/19/2021 19:01:53 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.20029**	**.19837**	**.19421**	**.0212**
Stddev	.00116	.00081	.00012	.0010
%RSD	.57854	.40835	.06033	4.605
#1	.19947	.19780	.19429	.0205
#2	.20111	.19895	.19412	.0218
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3978.3**	**3842.4**	**62704.**	**2667.3**
Stddev	14.0	10.5	119.	6.3
%RSD	.35197	.27256	.19027	.23775
#1	3988.2	3849.8	62788.	2662.8
#2	3968.4	3835.0	62619.	2671.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.853%	93.748%	93.666%	95.786%
Range				

Sample Name: 480-181293-H-2-A Acquired: 2/19/2021 19:05:28 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**10.380**	**.00739**	**1.0769**	**.36693**
Stddev	.00024	.017	.00015	.0031	.00160
%RSD	81.573	.16074	2.0209	.28955	.43525
#1	.00012	10.369	.00729	1.0791	.36580
#2	.00046	10.392	.00750	1.0747	.36806
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**156.38**	**.00018**	**.0876**	**.01638**
Stddev	.00007	.13	.00003	.0366	.00000
%RSD	19.741	.08252	18.472	41.77	.01982
#1	.00039	156.47	.00020	.0618	.01638
#2	.00030	156.29	.00015	.1135	.01638
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01894**	**.03195**	**22.905**	**24.662**	**.04956**
Stddev	.00017	.00052	.099	.036	.00072
%RSD	.89284	1.6220	.43082	.14425	1.4485
#1	.01882	.03159	22.975	24.687	.05007
#2	.01906	.03232	22.835	24.637	.04906
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181293-H-2-A Acquired: 2/19/2021 19:05:28 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.082**	**1.1222**	**.00263**	**90.628**	**.03075**
Stddev	.044	.0047	.00005	.231	.00002
%RSD	.09154	.41806	1.8994	.25459	.08129
#1	48.051	1.1189	.00267	90.464	.03074
#2	48.113	1.1255	.00260	90.791	.03077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.3043**	**.00857**	**5.455**	**-.00084**	**-.00335**
Stddev	.0010	.00027	.004	.00084	.00235
%RSD	.3224	3.1897	.0683	100.02	70.046
#1	.3050	.00837	5.458	-.00024	-.00169
#2	.3036	.00876	5.452	-.00143	-.00501
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.965**	**.00151**	**1.6738**	**.0124**	**.19364**
Stddev	.057	.00039	.0001	.0046	.00664
%RSD	.23647	25.491	.00669	37.12	3.4316
#1	24.005	.00179	1.6737	.0156	.18894
#2	23.925	.00124	1.6739	.0091	.19833
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181293-H-2-A Acquired: 2/19/2021 19:05:28 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.01558**	**.04543**	**.0088**
Stddev	.00063	.00019	.00025	.0018
%RSD	982.33	1.2299	.54421	19.98
#1	.00038	.01544	.04526	.0075
#2	-.00051	.01572	.04561	.0100
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3958.9**	**3887.2**	**63169.**	**2712.8**
Stddev	9.1	2.7	63.	3.5
%RSD	.22955	.07010	.10021	.12794
#1	3965.3	3889.2	63214.	2710.3
#2	3952.5	3885.3	63124.	2715.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.439%	94.842%	94.361%	97.419%
Range				

Sample Name: 480-181276-C-1-A Acquired: 2/19/2021 19:09:12 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00072**	**.12946**	**.12445**	**10.893**	**.27883**
Stddev	.00021	.05161	.00153	.002	.00057
%RSD	29.567	39.865	1.2302	.02006	.20275
#1	-.00057	.09297	.12554	10.892	.27923
#2	-.00087	.16595	.12337	10.895	.27843
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**125.04**	**-.00005**	**-.0273**	**.03048**
Stddev	.00003	.01	.00017	.0312	.00002
%RSD	57.787	.00601	322.69	114.2	.07775
#1	-.00003	125.05	-.00017	-.0053	.03046
#2	-.00006	125.04	.00007	-.0494	.03049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.23705**	**.00249**	**4.9127**	**437.64**	**.18309**
Stddev	.00172	.00005	.0324	.01	.00013
%RSD	.72584	2.1940	.65896	.00258	.07138
#1	.23583	.00253	4.8898	437.63	.18300
#2	.23827	.00245	4.9356	437.65	.18318
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181276-C-1-A Acquired: 2/19/2021 19:09:12 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**149.67**	**.87972**	**.00843**	F **1645.7**	**.22553**
Stddev	.26	.00098	.00007	.3	.00043
%RSD	.17456	.11172	.86608	.01834	.19165
#1	149.49	.87903	.00849	1645.5	.22583
#2	149.86	.88042	.00838	1646.0	.22522
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.615**	**.00230**	**28.51**	**.01652**	**-.00114**
Stddev	.017	.00043	.01	.00214	.00182
%RSD	.3039	18.901	.0495	12.955	158.70
#1	5.627	.00260	28.50	.01804	-.00243
#2	5.603	.00199	28.52	.01501	.00014
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**30.998**	**.06661**	**1.2494**	**-.0009**	**.26191**
Stddev	.214	.00069	.0002	.0005	.00109
%RSD	.69037	1.0342	.01491	57.26	.41520
#1	30.846	.06612	1.2496	-.0005	.26268
#2	31.149	.06709	1.2493	-.0012	.26114
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181276-C-1-A Acquired: 2/19/2021 19:09:12 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00036**	**.10892**	**.01505**	**.0569**
Stddev	.00092	.00022	.00006	.0008
%RSD	256.06	.19917	.37413	1.467
#1	.00029	.10908	.01501	.0575
#2	-.00101	.10877	.01509	.0563
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3331.6**	**3445.0**	**53433.**	**2547.2**
Stddev	7.3	11.0	33.	8.8
%RSD	.21806	.32043	.06198	.34395
#1	3336.8	3452.8	53410.	2553.4
#2	3326.5	3437.2	53457.	2541.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	71.060%	84.052%	79.819%	91.473%
Range				

Sample Name: 480-181247-A-1-A@5 Acquired: 2/19/2021 19:13:02 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**-.01209**	**.00060**	**.00748**	**.00001**
Stddev	.00006	.05057	.00152	.00006	.00001
%RSD	9.5365	418.20	254.95	.83024	225.42
#1	.00064	.02366	-.00048	.00752	.00002
#2	.00055	-.04785	.00167	.00743	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.05019**	**-.00007**	**.0082**	**-.00018**
Stddev	.00006	.00438	.00001	.0047	.00004
%RSD	45.788	8.7213	17.828	57.19	21.257
#1	-.00009	.05328	-.00006	.0049	-.00021
#2	-.00018	.04709	-.00008	.0115	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**-.00060**	**.00017**	**.46412**	**-.00104**
Stddev	.00001	.00005	.00019	.06625	.00070
%RSD	1.8708	8.0047	114.03	14.274	66.881
#1	.00030	-.00056	.00003	.51096	-.00055
#2	.00029	-.00063	.00030	.41728	-.00153
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181247-A-1-A@5 Acquired: 2/19/2021 19:13:02 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02101**	**.00004**	**-.00077**	**1.5456**	**.00018**
Stddev	.00203	.00002	.00006	.0113	.00008
%RSD	9.6797	57.538	8.3901	.72882	47.178
#1	.02244	.00006	-.00081	1.5535	.00012
#2	.01957	.00002	-.00072	1.5376	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0016**	**-.00056**	**18.00**	**.00167**	**.00165**
Stddev	.0014	.00058	.13	.00245	.00066
%RSD	87.05	103.07	.6993	146.40	40.253
#1	.0006	-.00097	18.09	-.00006	.00118
#2	.0026	-.00015	17.91	.00340	.00211
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.15291**	**.00020**	**.00008**	**-.0187**	**.00020**
Stddev	.00931	.00051	.00001	.0157	.00030
%RSD	6.0874	248.03	10.535	83.91	149.83
#1	.15949	-.00015	.00009	-.0076	-.00001
#2	.14633	.00056	.00008	-.0298	.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181247-A-1-A@5 Acquired: 2/19/2021 19:13:02 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00233**	**-.00015**	**.00127**	**-.0017**
Stddev	.00068	.00025	.00020	.0002
%RSD	29.207	166.90	15.814	11.21
#1	-.00281	.00003	.00113	-.0016
#2	-.00185	-.00033	.00142	-.0019
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4633.4**	**4048.7**	**66760.**	**2633.2**
Stddev	13.2	17.6	72.	5.2
%RSD	.28531	.43448	.10776	.19890
#1	4624.0	4036.3	66709.	2636.9
#2	4642.7	4061.2	66811.	2629.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.824%	98.781%	99.726%	94.562%
Range				

Sample Name: 480-181247-A-4-A@5 Acquired: 2/19/2021 19:16:50 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**-.00021**	**.00200**	**.00548**	**-.00000**
Stddev	.00027	.00495	.00014	.00024	.00000
%RSD	115.10	2356.8	7.1365	4.4628	98.010
#1	-.00043	-.00371	.00190	.00566	-.00001
#2	-.00004	.00329	.00210	.00531	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.03837**	**-.00004**	**.0165**	**-.00016**
Stddev	.00000	.00213	.00001	.0267	.00002
%RSD	3.1125	5.5610	26.934	161.8	10.711
#1	-.00016	.03988	-.00004	-.0024	-.00015
#2	-.00015	.03686	-.00003	.0354	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**-.00047**	**.00172**	**.24356**	**-.00034**
Stddev	.00015	.00102	.00174	.01202	.00213
%RSD	27.050	216.38	101.33	4.9366	627.51
#1	.00064	-.00119	.00049	.23506	-.00185
#2	.00044	.00025	.00295	.25207	.00117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181247-A-4-A@5 Acquired: 2/19/2021 19:16:50 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02025**	**.00000**	**-.00096**	**1.3922**	**.00018**
Stddev	.00249	.00005	.00025	.0112	.00011
%RSD	12.280	1241.3	25.669	.80133	63.809
#1	.01849	-.00003	-.00114	1.3843	.00010
#2	.02200	.00004	-.00079	1.4001	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**.00008**	**18.94**	**-.00100**	**.00095**
Stddev	.0005	.00028	.21	.00145	.00167
%RSD	46.41	331.45	1.102	144.23	175.60
#1	.0007	.00028	19.09	.00002	.00213
#2	.0014	-.00011	18.79	-.00202	-.00023
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03480**	**.00056**	**.00018**	**-.0086**	**-.00032**
Stddev	.00120	.00077	.00003	.0065	.00005
%RSD	3.4394	139.16	14.739	75.64	16.296
#1	.03396	.00001	.00016	-.0132	-.00036
#2	.03565	.00110	.00019	-.0040	-.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181247-A-4-A@5 Acquired: 2/19/2021 19:16:50 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00134**	**-.00019**	**.00104**	**-.0001**
Stddev	.00045	.00003	.00034	.0020
%RSD	33.299	18.517	32.193	3892.
#1	-.00103	-.00021	.00081	-.0014
#2	-.00166	-.00016	.00128	.0013
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4610.4**	**4041.9**	**66926.**	**2679.7**
Stddev	5.3	6.5	279.	15.4
%RSD	.11524	.16091	.41723	.57363
#1	4614.1	4046.5	66729.	2690.6
#2	4606.6	4037.3	67124.	2668.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.334%	98.614%	99.974%	96.231%
Range				

Sample Name: 480-181247-A-5-A@5 Acquired: 2/19/2021 19:20:37 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	**-.03925**	**.00184**	**.00417**	**-.00000**
Stddev	.00082	.01179	.00033	.00022	.00001
%RSD	138.95	30.049	17.710	5.1995	292.07
#1	.00117	-.04758	.00207	.00433	.00000
#2	.00001	-.03091	.00161	.00402	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.04011**	**-.00006**	**.0208**	**-.00024**
Stddev	.00006	.00167	.00023	.0105	.00013
%RSD	83.992	4.1704	395.85	50.39	56.625
#1	-.00003	.04130	.00010	.0134	-.00014
#2	-.00011	.03893	-.00022	.0282	-.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**-.00023**	**-.00428**	**.19835**	**-.00227**
Stddev	.00004	.00081	.00353	.05416	.00073
%RSD	23.612	349.81	82.613	27.305	32.010
#1	.00019	-.00080	-.00178	.16005	-.00279
#2	.00013	.00034	-.00677	.23665	-.00176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181247-A-5-A@5 Acquired: 2/19/2021 19:20:37 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01877**	**.00006**	**-.00077**	**1.2915**	**.00023**
Stddev	.00176	.00003	.00004	.0149	.00005
%RSD	9.3731	48.663	5.1711	1.1556	21.371
#1	.02001	.00004	-.00080	1.2809	.00026
#2	.01752	.00008	-.00075	1.3020	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.0007**	**.00015**	**18.99**	**.00094**	**.00203**
Stddev	.0016	.00023	.18	.00004	.00063
%RSD	230.1	156.50	.9718	3.9690	30.775
#1	-.0018	-.00002	19.12	.00091	.00247
#2	.0004	.00031	18.86	.00097	.00159
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.00090**	**.00009**	**-.0082**	**-.00024**
Stddev	.00938	.00048	.00000	.0194	.00022
%RSD	5160.1	53.659	1.0387	235.5	92.311
#1	-.00682	.00056	.00009	-.0219	-.00008
#2	.00645	.00124	.00009	.0055	-.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181247-A-5-A@5 Acquired: 2/19/2021 19:20:37 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00155**	**-.00010**	**.00123**	**-.0012**
Stddev	.00004	.00010	.00033	.0009
%RSD	2.3780	93.768	26.522	77.21
#1	-.00158	-.00003	.00146	-.0019
#2	-.00153	-.00017	.00100	-.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4586.9**	**4007.7**	**66764.**	**2658.2**
Stddev	13.3	20.2	353.	3.2
%RSD	.29039	.50330	.52808	.11934
#1	4596.3	4022.0	67013.	2660.5
#2	4577.5	3993.5	66515.	2656.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.833%	97.781%	99.732%	95.460%
Range				

Sample Name: 480-181248-A-5-A@5 Acquired: 2/19/2021 19:24:24 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**-.03292**	**.00180**	**.00302**	**.00003**
Stddev	.00079	.00309	.00248	.00021	.00000
%RSD	190.03	9.3834	137.69	7.1102	6.2749
#1	.00097	-.03511	.00356	.00317	.00003
#2	-.00014	-.03074	.00005	.00287	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.12010**	**-.00006**	**-.0233**	**-.00014**
Stddev	.00002	.00257	.00006	.0366	.00018
%RSD	13.543	2.1373	96.197	157.3	127.77
#1	-.00013	.12192	-.00002	.0026	-.00001
#2	-.00016	.11829	-.00010	-.0492	-.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.00033**	**-.00450**	**.19264**	**.00006**
Stddev	.00019	.00047	.00435	.00965	.00346
%RSD	854.92	144.99	96.842	5.0092	5726.7
#1	.00011	-.00066	-.00757	.19946	-.00239
#2	-.00016	.00001	-.00142	.18582	.00251
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181248-A-5-A@5 Acquired: 2/19/2021 19:24:24 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01748**	**.00019**	**-.00093**	**1.3525**	**.00018**
Stddev	.00006	.00001	.00009	.0116	.00010
%RSD	.34696	4.8248	9.5242	.85715	57.967
#1	.01753	.00019	-.00100	1.3606	.00011
#2	.01744	.00020	-.00087	1.3443	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.00010**	**18.48**	**.00085**	**.00006**
Stddev	.0001	.00099	.09	.00043	.00053
%RSD	57.02	979.83	.4598	50.000	858.96
#1	-.0001	-.00060	18.54	.00116	.00043
#2	-.0001	.00080	18.42	.00055	-.00031
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00349**	**.00010**	**.00006**	**-.0092**	**.00001**
Stddev	.00895	.00074	.00002	.0043	.00003
%RSD	256.24	752.93	29.417	46.61	243.90
#1	.00982	-.00043	.00005	-.0062	.00003
#2	-.00283	.00062	.00008	-.0122	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181248-A-5-A@5 Acquired: 2/19/2021 19:24:24 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00127**	**-.00012**	**.00373**	**-.0030**
Stddev	.00112	.00006	.00014	.0013
%RSD	88.002	50.743	3.6208	43.18
#1	-.00048	-.00008	.00363	-.0021
#2	-.00206	-.00017	.00382	-.0039
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4608.0**	**4019.4**	**65950.**	**2630.5**
Stddev	5.1	10.4	268.	6.2
%RSD	.11111	.25890	.40573	.23655
#1	4604.4	4012.1	66139.	2626.1
#2	4611.6	4026.8	65761.	2634.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.283%	98.067%	98.515%	94.464%
Range				

Sample Name: 480-181248-A-7-A@5 Acquired: 2/19/2021 19:28:11 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**-.01708**	**.00101**	**.00335**	**.00001**
Stddev	.00003	.00057	.00040	.00032	.00003
%RSD	14.129	3.3330	39.880	9.5114	218.92
#1	.00027	-.01668	.00130	.00312	-.00001
#2	.00022	-.01748	.00073	.00357	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.04117**	**-.00007**	**.0098**	**-.00025**
Stddev	.00006	.00101	.00016	.0218	.00020
%RSD	39.171	2.4635	223.24	223.1	80.556
#1	-.00018	.04045	-.00019	.0252	-.00039
#2	-.00010	.04189	.00004	-.0056	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**-.00024**	**-.00771**	**.10623**	**-.00093**
Stddev	.00017	.00019	.00381	.00780	.00115
%RSD	282.91	79.420	49.338	7.3418	124.00
#1	.00018	-.00011	-.01041	.10072	-.00174
#2	-.00006	-.00038	-.00502	.11175	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181248-A-7-A@5 Acquired: 2/19/2021 19:28:11 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02068**	**.00002**	**-.00099**	**1.3649**	**.00024**
Stddev	.00000	.00004	.00014	.0003	.00027
%RSD	.00099	233.28	14.317	.02231	113.26
#1	.02068	.00005	-.00089	1.3646	.00005
#2	.02068	-.00001	-.00108	1.3651	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**-.00039**	**18.70**	**.00113**	**.00079**
Stddev	.0003	.00071	.12	.00113	.00227
%RSD	1435.	183.73	.6323	100.05	288.61
#1	.0002	-.00089	18.79	.00193	.00240
#2	-.0002	.00012	18.62	.00033	-.00082
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00941**	**.00021**	**-.00005**	**-.0236**	**-.00008**
Stddev	.01201	.00048	.00005	.0140	.00003
%RSD	127.66	234.52	104.34	59.47	34.846
#1	.00092	.00055	-.00008	-.0137	-.00006
#2	.01791	-.00014	-.00001	-.0335	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181248-A-7-A@5 Acquired: 2/19/2021 19:28:11 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00121**	**-.00028**	**.00159**	**.0003**
Stddev	.00058	.00011	.00016	.0002
%RSD	48.221	37.616	10.241	95.20
#1	-.00079	-.00035	.00147	.0001
#2	-.00162	-.00021	.00170	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4638.1**	**4069.4**	**67208.**	**2689.0**
Stddev	13.7	13.2	179.	3.8
%RSD	.29640	.32476	.26601	.14146
#1	4647.8	4078.7	67082.	2686.3
#2	4628.4	4060.0	67334.	2691.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.926%	99.286%	100.39%	96.566%
Range				

Sample Name: 480-181248-A-9-A@5 Acquired: 2/19/2021 19:31:58 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.01192**	**.00006**	**.00213**	**-.00001**
Stddev	.00022	.00009	.00142	.00003	.00001
%RSD	277.13	.73561	2538.9	1.2273	57.544
#1	.00008	.01198	.00106	.00211	-.00002
#2	-.00023	.01185	-.00095	.00215	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.11426**	**.00003**	**.0377**	**-.00021**
Stddev	.00013	.00119	.00008	.0049	.00004
%RSD	75.843	1.0417	292.10	12.88	19.119
#1	-.00026	.11511	.00008	.0343	-.00024
#2	-.00008	.11342	-.00003	.0411	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00066**	**-.00020**	**-.00572**	**.13553**	**-.00245**
Stddev	.00003	.00008	.00202	.02001	.00046
%RSD	3.8893	39.882	35.383	14.765	18.934
#1	.00064	-.00014	-.00429	.12138	-.00278
#2	.00068	-.00026	-.00715	.14968	-.00213
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181248-A-9-A@5 Acquired: 2/19/2021 19:31:58 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01885**	**.00007**	**-.00095**	**1.3278**	**.00028**
Stddev	.00231	.00000	.00009	.0004	.00006
%RSD	12.246	.62406	9.8088	.03308	19.840
#1	.02048	.00007	-.00088	1.3275	.00032
#2	.01722	.00007	-.00101	1.3281	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0022**	**-.00049**	**18.46**	**.00141**	**.00219**
Stddev	.0014	.00040	.23	.00048	.00287
%RSD	64.95	82.071	1.249	33.708	130.91
#1	.0012	-.00021	18.63	.00175	.00016
#2	.0032	-.00077	18.30	.00107	.00422
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00274**	**.00006**	**.00008**	**-.0003**	**-.00016**
Stddev	.01674	.00045	.00002	.0044	.00039
%RSD	610.02	737.83	22.204	1501.	246.09
#1	-.01458	.00038	.00009	.0028	-.00043
#2	.00909	-.00026	.00007	-.0034	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181248-A-9-A@5 Acquired: 2/19/2021 19:31:58 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00132**	**-.00018**	**.00207**	**-.0011**
Stddev	.00038	.00020	.00006	.0007
%RSD	29.111	112.00	3.0175	64.50
#1	-.00159	-.00004	.00203	-.0006
#2	-.00105	-.00032	.00212	-.0017
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4583.2**	**4011.2**	**66507.**	**2659.0**
Stddev	2.0	2.6	134.	14.3
%RSD	.04343	.06396	.20145	.53857
#1	4584.6	4013.0	66601.	2648.9
#2	4581.8	4009.4	66412.	2669.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.754%	97.866%	99.347%	95.487%
Range				

Sample Name: CCV-6339745 Acquired: 2/19/2021 19:35:45 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0180**	**50.199**	**1.0289**	**1.0639**	**1.0408**	**1.0266**	**51.058**	**1.0448**
Stddev	.0012	.048	.0025	.0010	.0013	.0004	.012	.0009
%RSD	.11954	.09557	.24361	.09521	.12517	.04279	.02305	.09012
#1	1.0189	50.165	1.0271	1.0632	1.0399	1.0269	51.066	1.0455
#2	1.0172	50.233	1.0306	1.0646	1.0417	1.0263	51.050	1.0442
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.004**	**1.0317**	**1.0201**	**1.0359**	**49.053**	**52.163**	**.98539**	**50.758**
Stddev	.008	.0005	.0027	.0003	.114	.093	.00270	.166
%RSD	.7719	.04800	.26561	.03228	.23196	.17917	.27376	.32786
#1	.9982	1.0320	1.0220	1.0361	48.973	52.097	.98730	50.876
#2	1.009	1.0313	1.0182	1.0356	49.134	52.229	.98348	50.641
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0118**	**1.0514**	**51.320**	**1.0269**	**25.85**	**1.0328**	**26.34**	**1.0263**
Stddev	.0007	.0041	.032	.0020	.09	.0014	.05	.0031
%RSD	.06628	.39080	.06289	.19304	.3482	.13414	.2040	.30218
#1	1.0113	1.0485	51.298	1.0255	25.79	1.0338	26.31	1.0241
#2	1.0122	1.0543	51.343	1.0283	25.91	1.0318	26.38	1.0285
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6339745 Acquired: 2/19/2021 19:35:45 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0259**	**10.012**	**1.0134**	**1.0285**	**.9483**	**1.0304**	**1.0430**	**1.0288**
Stddev	.0030	.011	.0026	.0028	.0171	.0022	.0014	.0018
%RSD	.29638	.10665	.25218	.27240	1.804	.21593	.13758	.17853
#1	1.0280	10.004	1.0116	1.0265	.9362	1.0320	1.0420	1.0301
#2	1.0237	10.019	1.0152	1.0305	.9604	1.0288	1.0440	1.0275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**1.0373**	**.8754**
Stddev	.0016	.0008
%RSD	.15390	.0910
#1	1.0385	.8748
#2	1.0362	.8760
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4034.3**	**3904.7**	**62356.**	**2632.8**
Stddev	17.7	13.1	37.	9.3
%RSD	.43987	.33450	.05917	.35262
#1	4021.8	3895.4	62330.	2626.2
#2	4046.9	3913.9	62382.	2639.3

Sample Name: CCB-6338400 Acquired: 2/19/2021 19:39:21 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**.00260**	**.00179**	**.00175**	**-.00008**	**-.00003**	**-.00257**	**-.00004**
Stddev	.00031	.00575	.00168	.00003	.00001	.00011	.00388	.00003
%RSD	63.634	220.90	93.685	1.8999	15.853	328.06	151.08	65.795
#1	.00027	-.00146	.00060	.00177	-.00007	-.00011	.00018	-.00006
#2	.00072	.00667	.00298	.00173	-.00009	.00004	-.00532	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0741**	**-.00016**	**-.00016**	**-.00022**	**-.00088**	**.07184**	**.00049**	**-.00069**
Stddev	.0073	.00016	.00017	.00020	.00027	.03252	.00057	.00060
%RSD	9.877	95.578	102.35	91.847	30.067	45.272	117.03	86.123
#1	.0690	-.00005	-.00028	-.00008	-.00107	.09484	.00008	-.00112
#2	.0793	-.00028	-.00004	-.00035	-.00070	.04884	.00089	-.00027
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00155**	**.01911**	**-.00023**	**-.0033**	**.00027**	**.1571**	**-.00006**
Stddev	.00001	.00065	.01250	.00006	.0001	.00005	.0044	.00017
%RSD	15.501	41.621	65.424	25.531	2.092	18.470	2.810	268.82
#1	-.00008	.00201	.01027	-.00019	-.0034	.00031	.1540	-.00018
#2	-.00011	.00109	.02795	-.00028	-.0033	.00024	.1602	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6338400 Acquired: 2/19/2021 19:39:21 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00111**	**.01527**	**.00006**	**-.00020**	**-.0010**	**-.00002**	**-.00124**	**-.00018**
Stddev	.00021	.00045	.00066	.00009	.0050	.00039	.00045	.00028
%RSD	18.575	2.9620	1124.5	47.114	481.7	1631.9	36.509	157.85
#1	-.00125	.01559	.00053	-.00026	-.0046	-.00030	-.00156	.00002
#2	-.00096	.01495	-.00041	-.00013	.0025	.00025	-.00092	-.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**.00056**	**-.0020**
Stddev	.00007	.0001
%RSD	12.875	3.922
#1	.00061	-.0019
#2	.00051	-.0020
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4689.4**	**4149.3**	**67850.**	**2729.3**
Stddev	2.8	1.7	241.	21.5
%RSD	.05918	.04111	.35587	.78877
#1	4691.4	4148.1	67679.	2714.1
#2	4687.5	4150.5	68020.	2744.5

Sample Name: CCVL-6339744 Acquired: 2/19/2021 19:43:09 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00541**	**.16948**	**.01421**	**.02014**	**.00190**	**.00192**	**.48352**	**.00186**
Stddev	.00003	.02683	.00107	.00000	.00001	.00003	.00040	.00008
%RSD	.48027	15.832	7.5371	.00445	.59130	1.6771	.08170	4.1446
#1	.00543	.18845	.01346	.02014	.00190	.00190	.48380	.00180
#2	.00539	.15051	.01497	.02014	.00191	.00195	.48324	.00191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0391**	**.00367**	**.00384**	**.00873**	**.04019**	**.50310**	**.02527**	**.19492**
Stddev	.0047	.00016	.00005	.00038	.00443	.00319	.00093	.00688
%RSD	11.92	4.3573	1.1882	4.3355	11.012	.63331	3.6848	3.5304
#1	.0358	.00378	.00388	.00847	.04331	.50535	.02461	.19979
#2	.0424	.00356	.00381	.00900	.03706	.50085	.02593	.19005
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00277**	**.00944**	**.96443**	**.00966**	**-.0380**	**.01025**	**.2564**	**.01713**
Stddev	.00004	.00010	.01246	.00014	.0013	.00069	.0011	.00126
%RSD	1.5610	1.0349	1.2920	1.4830	3.507	6.7294	.4279	7.3300
#1	.00280	.00951	.95562	.00956	-.0389	.01073	.2572	.01802
#2	.00274	.00937	.97324	.00977	-.0370	.00976	.2556	.01624
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVL-6339744 Acquired: 2/19/2021 19:43:09 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02516**	**.43932**	**.00983**	**.00447**	**-.0063**	**.00463**	**.01914**	**.00411**
Stddev	.00108	.00522	.00027	.00011	.0252	.00034	.00019	.00042
%RSD	4.2896	1.1892	2.7787	2.4685	400.9	7.3420	1.0100	10.169
#1	.02440	.44301	.00964	.00455	.0115	.00439	.01901	.00441
#2	.02592	.43563	.01003	.00439	-.0241	.00487	.01928	.00382
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**.00926**	**-.0011**
Stddev	.00008	.0005
%RSD	.86940	48.11
#1	.00920	-.0014
#2	.00932	-.0007
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4670.0**	**4142.2**	**67983.**	**2727.0**
Stddev	2.7	1.1	290.	12.7
%RSD	.05703	.02567	.42596	.46609
#1	4671.9	4142.9	67778.	2736.0
#2	4668.1	4141.4	68188.	2718.0

Sample Name: MB 480-569860/1-A Acquired: 2/19/2021 19:46:56 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	F **-.04153**	**-.00041**	**.00024**	**-.00008**
Stddev	.00017	.00805	.00058	.00036	.00002
%RSD	30.019	19.385	143.25	151.80	22.059
#1	.00070	-.04723	-.00082	.00049	-.00009
#2	.00046	-.03584	.00001	-.00002	-.00007
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.20000			
Low Limit		-.04000			

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.03757**	**-.00005**	**.0186**	**-.00013**
Stddev	.00002	.00154	.00002	.0297	.00014
%RSD	27.985	4.0891	45.642	159.6	108.40
#1	-.00007	.03648	-.00007	.0396	-.00003
#2	-.00004	.03865	-.00003	-.0024	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**-.00033**	**.00121**	**.03735**	**-.00258**
Stddev	.00003	.00019	.00069	.02070	.00193
%RSD	55.233	57.460	57.477	55.434	74.770
#1	.00008	-.00019	.00170	.02271	-.00395
#2	.00004	-.00046	.00072	.05199	-.00122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-569860/1-A Acquired: 2/19/2021 19:46:56 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**.00198**	**-.00074**	**.04501**	**-.00003**
Stddev	.00144	.00000	.00002	.00727	.00009
%RSD	267.65	.11778	2.6965	16.163	338.19
#1	-.00048	.00198	-.00076	.03986	-.00009
#2	.00155	.00198	-.00073	.05015	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.0044**	**-.00057**	**.0415**	**-.00056**	**-.00156**
Stddev	.0009	.00036	.0018	.00220	.00018
%RSD	20.23	62.543	4.264	394.48	11.462
#1	-.0050	-.00032	.0428	-.00212	-.00169
#2	-.0038	-.00083	.0403	.00100	-.00143
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00065**	**.00042**	**-.00008**	**.0036**	**-.00035**
Stddev	.00088	.00046	.00002	.0116	.00004
%RSD	134.11	110.45	21.771	324.4	10.027
#1	-.00003	.00009	-.00009	.0118	-.00033
#2	-.00127	.00075	-.00007	-.0046	-.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-569860/1-A Acquired: 2/19/2021 19:46:56 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00029**	**.00008**	**.00059**	**-.0004**
Stddev	.00013	.00007	.00037	.0025
%RSD	44.737	79.526	62.722	591.7
#1	.00020	.00013	.00085	-.0022
#2	.00038	.00004	.00033	.0013
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4682.9**	**4128.1**	**68231.**	**2750.9**
Stddev	5.3	5.7	110.	11.1
%RSD	.11355	.13919	.16144	.40339
#1	4679.1	4124.1	68309.	2758.7
#2	4686.7	4132.2	68154.	2743.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.881%	100.72%	101.92%	98.788%
Range				

Sample Name: LCS 480-569860/2-A Acquired: 2/19/2021 19:50:44 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04866**	**9.6222**	**.20307**	**.19900**	**.21471**
Stddev	.00057	.0424	.00035	.00033	.00026
%RSD	1.1727	.44045	.17379	.16367	.12274
#1	.04906	9.5922	.20282	.19923	.21490
#2	.04826	9.6522	.20332	.19877	.21453
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20615**	**9.8859**	**.20161**	**.0689**	**.19500**
Stddev	.00039	.0031	.00021	.0031	.00049
%RSD	.19066	.03159	.10658	4.553	.25194
#1	.20643	9.8882	.20145	.0711	.19466
#2	.20587	9.8837	.20176	.0667	.19535
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19569**	**.20336**	**9.3306**	**9.8206**	**.19094**
Stddev	.00043	.00017	.0116	.0101	.00055
%RSD	.21758	.08586	.12391	.10315	.29012
#1	.19599	.20323	9.3388	9.8278	.19133
#2	.19538	.20348	9.3225	9.8135	.19055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-569860/2-A Acquired: 2/19/2021 19:50:44 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7134**	**.20002**	**.20787**	**9.8244**	**.19364**
Stddev	.0070	.00068	.00056	.0184	.00045
%RSD	.07204	.33814	.26792	.18702	.23025
#1	9.7183	.20050	.20748	9.8114	.19333
#2	9.7084	.19954	.20827	9.8374	.19396
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.7202**	**.20034**	**9.971**	**.20141**	**.20010**
Stddev	.0018	.00088	.014	.00016	.00019
%RSD	.2533	.43705	.1387	.08156	.09680
#1	-.7215	.19973	9.961	.20153	.19996
#2	-.7189	.20096	9.981	.20129	.20023
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.2834**	**.19318**	**.20185**	**.0218**	**.20090**
Stddev	.0100	.00012	.00006	.0002	.00068
%RSD	.10774	.06226	.02748	1.055	.34088
#1	9.2764	.19327	.20181	.0220	.20138
#2	9.2905	.19310	.20189	.0216	.20041
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-569860/2-A Acquired: 2/19/2021 19:50:44 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.20177**	**.19691**	**.19707**	**.0238**
Stddev	.00057	.00009	.00047	.0016
%RSD	.28455	.04529	.23768	6.638
#1	.20136	.19697	.19740	.0227
#2	.20217	.19685	.19674	.0249
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4513.6**	**4134.7**	**67255.**	**2788.0**
Stddev	9.4	9.1	177.	17.5
%RSD	.20788	.21961	.26335	.62793
#1	4520.2	4141.2	67130.	2775.6
#2	4507.0	4128.3	67381.	2800.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.270%	100.88%	100.47%	100.12%
Range				

Sample Name: rinse Acquired: 2/19/2021 19:54:19 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	**-.03486**	**.00151**	**.00004**	**-.00017**
Stddev	.00115	.01742	.00093	.00020	.00000
%RSD	301.13	49.961	61.498	465.62	2.8847
#1	.00043	-.04717	.00216	-.00010	-.00017
#2	-.00119	-.02254	.00085	.00018	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**-.00611**	**-.00010**	**-.0028**	**-.00025**
Stddev	.00003	.00263	.00003	.0171	.00011
%RSD	27.882	43.063	33.871	603.9	45.716
#1	-.00008	-.00425	-.00013	.0093	-.00033
#2	-.00012	-.00796	-.00008	-.0149	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**-.00090**	**-.00501**	**.07248**	**-.00070**
Stddev	.00006	.00012	.00216	.00384	.00059
%RSD	21.499	13.676	43.132	5.2975	84.174
#1	-.00030	-.00081	-.00348	.07519	-.00112
#2	-.00022	-.00098	-.00653	.06976	-.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 2/19/2021 19:54:19 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00421**	**-.00020**	**-.00081**	**.00540**	**.00041**
Stddev	.00157	.00003	.00004	.01306	.00003
%RSD	37.353	15.780	4.4429	241.81	8.0493
#1	-.00310	-.00022	-.00083	.01464	.00038
#2	-.00532	-.00017	-.00078	-.00383	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.0062**	**-.00002**	**.0162**	**-.00102**	**.00011**
Stddev	.0007	.00026	.0006	.00053	.00061
%RSD	10.99	1215.7	3.531	51.779	564.53
#1	-.0057	-.00021	.0166	-.00139	.00054
#2	-.0067	.00016	.0158	-.00065	-.00032
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02114**	**-.00014**	**-.00030**	**-.0131**	**-.00035**
Stddev	.02021	.00024	.00004	.0119	.00016
%RSD	95.587	168.16	13.082	90.85	45.733
#1	.03543	-.00031	-.00032	-.0047	-.00024
#2	.00685	.00003	-.00027	-.0215	-.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 2/19/2021 19:54:19 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00055**	**-.00022**	**.02540**	**-.0028**
Stddev	.00014	.00014	.00028	.0003
%RSD	25.338	62.389	1.1150	12.25
#1	-.00064	-.00032	.02520	-.0031
#2	-.00045	-.00013	.02560	-.0026
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4738.1**	**4181.5**	**68461.**	**2783.2**
Stddev	4.0	5.5	349.	6.0
%RSD	.08353	.13187	.51041	.21405
#1	4735.3	4177.6	68708.	2787.4
#2	4740.9	4185.4	68214.	2779.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.06%	102.02%	102.27%	99.948%
Range				

Sample Name: rinse Acquired: 2/19/2021 19:58:08 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**-.02670**	**.00068**	**-.00009**	**-.00014**
Stddev	.00023	.02858	.00071	.00001	.00002
%RSD	36.398	107.05	103.70	15.922	12.911
#1	.00048	-.00649	.00118	-.00008	-.00016
#2	.00080	-.04691	.00018	-.00010	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**-.01169**	**-.00004**	**.0396**	**-.00002**
Stddev	.00009	.00019	.00001	.0064	.00000
%RSD	111.72	1.6242	17.430	16.26	5.8570
#1	-.00014	-.01182	-.00004	.0350	-.00002
#2	-.00002	-.01155	-.00005	.0441	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**-.00026**	**-.00740**	**.02443**	**-.00332**
Stddev	.00011	.00007	.00015	.05045	.00062
%RSD	110.32	25.803	2.0057	206.53	18.770
#1	.00018	-.00031	-.00730	.06010	-.00376
#2	.00002	-.00021	-.00751	-.01124	-.00288
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 2/19/2021 19:58:08 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00225**	**-.00014**	**-.00094**	**.01748**	**.00149**
Stddev	.00316	.00002	.00002	.00383	.00011
%RSD	140.80	13.141	2.5095	21.895	7.2919
#1	-.00001	-.00013	-.00092	.01477	.00141
#2	-.00448	-.00016	-.00096	.02018	.00156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.0059**	**.00009**	**.0126**	**.00141**	**-.00131**
Stddev	.0012	.00026	.0014	.00038	.00095
%RSD	20.32	281.53	11.04	26.946	72.777
#1	-.0051	-.00009	.0116	.00114	-.00064
#2	-.0068	.00028	.0136	.00168	-.00199
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00497**	**.00004**	**-.00022**	**-.0151**	**-.00009**
Stddev	.01479	.00013	.00004	.0001	.00015
%RSD	297.40	347.46	20.183	.8965	158.55
#1	.00549	-.00005	-.00025	-.0150	-.00020
#2	-.01544	.00013	-.00019	-.0152	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: rinse Acquired: 2/19/2021 19:58:08 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00057**	**-.00008**	**.09747**	**-.0009**
Stddev	.00085	.00002	.00043	.0011
%RSD	149.69	28.688	.44059	117.9
#1	-.00117	-.00006	.09777	-.0017
#2	.00003	-.00010	.09717	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4725.6**	**4161.8**	**68057.**	**2748.7**
Stddev	8.8	8.6	4.	1.3
%RSD	.18673	.20765	.00580	.04706
#1	4731.8	4167.9	68060.	2749.6
#2	4719.3	4155.7	68054.	2747.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.79%	101.54%	101.66%	98.710%
Range				

Sample Name: 480-181049-C-2-B Acquired: 2/19/2021 20:01:56 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**-.01814**	**.00032**	**.00555**	**.00403**
Stddev	.00078	.02111	.00084	.00017	.00001
%RSD	169.18	116.38	262.12	3.0768	.23278
#1	-.00009	-.00321	.00091	.00567	.00403
#2	.00102	-.03306	-.00027	.00543	.00404
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**12.177**	**-.00012**	**.0536**	**-.00010**
Stddev	.00002	.039	.00001	.0040	.00011
%RSD	14.574	.32062	8.7078	7.480	104.94
#1	.00016	12.150	-.00012	.0564	-.00003
#2	.00013	12.205	-.00013	.0507	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**.00035**	**.00387**	**.66216**	**.02003**
Stddev	.00016	.00077	.00118	.04281	.00125
%RSD	27.762	222.00	30.371	6.4659	6.2543
#1	.00069	-.00020	.00304	.69243	.01915
#2	.00047	.00089	.00470	.63188	.02092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181049-C-2-B Acquired: 2/19/2021 20:01:56 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.6253**	**.00192**	**-.00093**	**4.4604**	**.00417**
Stddev	.0029	.00001	.00008	.0011	.00009
%RSD	.06302	.54354	8.1372	.02421	2.2480
#1	4.6274	.00192	-.00098	4.4611	.00423
#2	4.6233	.00193	-.00088	4.4596	.00410
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0628**	**.00003**	**1.270**	**-.00061**	**-.00159**
Stddev	.0009	.00026	.008	.00063	.00057
%RSD	1.500	774.89	.6346	103.78	35.677
#1	.0635	-.00015	1.265	-.00105	-.00119
#2	.0622	.00022	1.276	-.00016	-.00199
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.3355**	**-.00012**	**.08624**	**-.0198**	**-.00005**
Stddev	.0545	.00003	.00053	.0043	.00018
%RSD	.65329	20.997	.61196	21.68	331.60
#1	8.2970	-.00010	.08587	-.0228	.00007
#2	8.3740	-.00014	.08661	-.0167	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181049-C-2-B Acquired: 2/19/2021 20:01:56 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00060**	**-.00025**	**.00482**	**-.0004**
Stddev	.00008	.00033	.00010	.0019
%RSD	13.474	128.60	2.1186	422.3
#1	-.00066	-.00049	.00475	-.0018
#2	-.00054	-.00002	.00489	.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4638.8**	**4154.1**	**67728.**	**2783.1**
Stddev	4.0	6.9	19.	12.2
%RSD	.08638	.16720	.02859	.43921
#1	4635.9	4149.2	67741.	2774.5
#2	4641.6	4159.0	67714.	2791.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.939%	101.35%	101.17%	99.946%
Range				

Sample Name: 480-181049-C-2-BSD@5 Acquired: 2/19/2021 20:05:43 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**-.04760**	**.00027**	**.00060**	**.00069**
Stddev	.00031	.04108	.00306	.00019	.00001
%RSD	138.03	86.298	1127.1	31.404	1.8732
#1	.00001	-.07665	-.00189	.00073	.00070
#2	.00044	-.01855	.00244	.00046	.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**2.4298**	**-.00004**	**.0273**	**-.00013**
Stddev	.00002	.0172	.00002	.0375	.00000
%RSD	123.34	.70901	58.124	137.5	3.0579
#1	-.00003	2.4176	-.00002	.0008	-.00013
#2	-.00000	2.4420	-.00005	.0538	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**-.00087**	**-.00370**	**.16755**	**.00394**
Stddev	.00038	.00024	.00580	.01886	.00076
%RSD	209.84	27.127	156.83	11.258	19.346
#1	.00045	-.00070	-.00780	.15421	.00340
#2	-.00009	-.00103	.00040	.18089	.00448
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181049-C-2-BSD@5 Acquired: 2/19/2021 20:05:43 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.92385**	**.00019**	**-.00102**	**.88565**	**.00068**
Stddev	.00752	.00002	.00006	.00840	.00027
%RSD	.81405	11.096	6.2639	.94860	39.737
#1	.91854	.00020	-.00097	.87971	.00087
#2	.92917	.00017	-.00106	.89159	.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0082**	**.00086**	**.2510**	**.00090**	**.00024**
Stddev	.0007	.00011	.0022	.00073	.00255
%RSD	8.564	13.107	.8571	81.064	1080.4
#1	.0087	.00094	.2525	.00038	-.00157
#2	.0077	.00078	.2494	.00141	.00204
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.6127**	**.00012**	**.01685**	**-.0116**	**-.00030**
Stddev	.0260	.00004	.00008	.0013	.00033
%RSD	1.6094	35.063	.45076	11.05	109.93
#1	1.5944	.00015	.01679	-.0125	-.00053
#2	1.6311	.00009	.01690	-.0107	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181049-C-2-BSD@5 Acquired: 2/19/2021 20:05:43 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00080**	**-.00046**	**.00067**	**-.0007**
Stddev	.00007	.00013	.00011	.0014
%RSD	8.4991	28.388	16.743	200.1
#1	-.00075	-.00055	.00059	.0003
#2	-.00085	-.00037	.00075	-.0016
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4725.1**	**4185.4**	**68841.**	**2804.3**
Stddev	4.6	7.3	200.	11.8
%RSD	.09648	.17451	.28987	.42230
#1	4721.8	4180.3	68982.	2812.6
#2	4728.3	4190.6	68700.	2795.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.78%	102.12%	102.83%	100.70%
Range				

Sample Name: 480-181049-C-2-BPDS Acquired: 2/19/2021 20:09:31 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04820**	**9.4768**	**.20670**	**.20707**	**.21943**
Stddev	.00053	.0345	.00138	.00032	.00017
%RSD	1.0961	.36359	.66935	.15520	.07918
#1	.04857	9.5011	.20767	.20685	.21955
#2	.04783	9.4524	.20572	.20730	.21930
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20595**	**21.355**	**.20355**	**.0479**	**.19597**
Stddev	.00057	.041	.00012	.0201	.00025
%RSD	.27742	.19029	.05796	41.88	.12768
#1	.20635	21.384	.20347	.0621	.19579
#2	.20555	21.326	.20364	.0337	.19615
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19452**	**.20511**	**8.9905**	**10.519**	**.20136**
Stddev	.00040	.00014	.0166	.019	.00094
%RSD	.20440	.06773	.18493	.18466	.46654
#1	.19424	.20501	8.9787	10.532	.20202
#2	.19480	.20520	9.0023	10.505	.20070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181049-C-2-BPDS Acquired: 2/19/2021 20:09:31 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.172**	**.19707**	**.20872**	**13.851**	**.19811**
Stddev	.040	.00107	.00034	.002	.00021
%RSD	.28204	.54341	.16173	.01553	.10670
#1	14.144	.19783	.20896	13.852	.19826
#2	14.200	.19631	.20848	13.849	.19796
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.6482**	**.19916**	**11.10**	**.19963**	**.19908**
Stddev	.0025	.00001	.02	.00108	.00106
%RSD	.3804	.00288	.1465	.53870	.53420
#1	-.6465	.19917	11.11	.20039	.19983
#2	-.6500	.19916	11.09	.19887	.19833
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.077**	**.18763**	**.28110**	**.0026**	**.20187**
Stddev	.032	.00046	.00065	.0074	.00035
%RSD	.19002	.24717	.23017	282.2	.17228
#1	17.100	.18731	.28156	.0079	.20163
#2	17.055	.18796	.28064	-.0026	.20212
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181049-C-2-BPDS Acquired: 2/19/2021 20:09:31 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.20148**	**.19836**	**.20103**	**.0151**
Stddev	.00053	.00006	.00047	.0023
%RSD	.26126	.03235	.23522	15.09
#1	.20185	.19831	.20070	.0135
#2	.20111	.19841	.20137	.0167
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4405.2**	**4064.7**	**66660.**	**2794.7**
Stddev	4.2	6.2	161.	9.6
%RSD	.09485	.15373	.24166	.34481
#1	4402.3	4060.3	66546.	2787.9
#2	4408.2	4069.1	66774.	2801.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.958%	99.171%	99.576%	100.36%
Range				

Sample Name: 480-181049-C-2-C MS Acquired: 2/19/2021 20:13:07 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04883**	**9.6787**	**.20827**	**.20577**	**.21959**
Stddev	.00094	.0270	.00287	.00073	.00012
%RSD	1.9314	.27925	1.3795	.35617	.05257
#1	.04817	9.6978	.21030	.20525	.21968
#2	.04950	9.6596	.20623	.20629	.21951
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20813**	**22.081**	**.20315**	**.0556**	**.19533**
Stddev	.00057	.059	.00051	.0289	.00016
%RSD	.27243	.26693	.25015	51.97	.08190
#1	.20853	22.123	.20351	.0760	.19522
#2	.20773	22.040	.20279	.0351	.19545
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19508**	**.20549**	**9.3547**	**10.625**	**.20961**
Stddev	.00034	.00012	.0170	.010	.00101
%RSD	.17371	.05901	.18206	.09485	.48359
#1	.19484	.20541	9.3668	10.632	.21033
#2	.19532	.20558	9.3427	10.618	.20889
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181049-C-2-C MS Acquired: 2/19/2021 20:13:07 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.346**	**.19752**	**.20925**	**14.336**	**.19835**
Stddev	.041	.00019	.00022	.030	.00042
%RSD	.28705	.09366	.10288	.20727	.20964
#1	14.375	.19739	.20941	14.357	.19864
#2	14.317	.19765	.20910	14.315	.19805
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.6419**	**.19949**	**11.27**	**.20087**	**.20221**
Stddev	.0033	.00014	.00	.00075	.00154
%RSD	.5092	.07091	.0153	.37561	.76385
#1	-.6396	.19939	11.27	.20033	.20112
#2	-.6442	.19959	11.27	.20140	.20331
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.536**	**.19400**	**.28876**	**-.0028**	**.20227**
Stddev	.039	.00087	.00044	.0047	.00070
%RSD	.21959	.44884	.15263	166.1	.34594
#1	17.563	.19461	.28907	.0005	.20277
#2	17.508	.19338	.28844	-.0061	.20178
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181049-C-2-C MS Acquired: 2/19/2021 20:13:07 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.20068**	**.19871**	**.20062**	**.0060**
Stddev	.00074	.00012	.00025	.0031
%RSD	.37044	.05813	.12648	51.23
#1	.20121	.19863	.20080	.0038
#2	.20016	.19879	.20044	.0081
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4434.2**	**4088.7**	**66221.**	**2737.2**
Stddev	19.4	15.6	313.	3.9
%RSD	.43789	.38169	.47339	.14186
#1	4420.5	4077.6	65999.	2734.4
#2	4447.9	4099.7	66442.	2739.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.576%	99.756%	98.920%	98.296%
Range				

Sample Name: 480-181049-C-2-D MSD Acquired: 2/19/2021 20:16:42 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04847**	**9.4809**	**.20195**	**.20359**	**.21621**
Stddev	.00002	.0257	.00044	.00078	.00010
%RSD	.03635	.27097	.21787	.38144	.04418
#1	.04848	9.4627	.20164	.20414	.21628
#2	.04846	9.4991	.20226	.20304	.21614
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20374**	**21.597**	**.19981**	**.0514**	**.19291**
Stddev	.00050	.048	.00004	.0042	.00015
%RSD	.24662	.22374	.01947	8.169	.07715
#1	.20339	21.563	.19978	.0484	.19281
#2	.20410	21.631	.19983	.0543	.19302
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19250**	**.20189**	**9.1374**	**10.373**	**.20621**
Stddev	.00051	.00063	.0422	.093	.00217
%RSD	.26585	.31017	.46146	.89819	1.0525
#1	.19214	.20233	9.1076	10.439	.20775
#2	.19286	.20144	9.1673	10.308	.20468
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181049-C-2-D MSD Acquired: 2/19/2021 20:16:42 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.137**	**.19598**	**.20520**	**14.038**	**.19505**
Stddev	.014	.00042	.00023	.019	.00034
%RSD	.10250	.21445	.11257	.13461	.17590
#1	14.127	.19628	.20503	14.025	.19530
#2	14.147	.19568	.20536	14.052	.19481
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.6444**	**.19809**	**11.18**	**.19708**	**.19855**
Stddev	.0029	.00048	.00	.00073	.00010
%RSD	.4450	.24478	.0147	.37045	.05027
#1	-.6424	.19775	11.18	.19657	.19848
#2	-.6464	.19844	11.18	.19760	.19862
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.231**	**.19004**	**.28372**	**-.0144**	**.19902**
Stddev	.077	.00060	.00031	.0038	.00024
%RSD	.44845	.31548	.10863	26.31	.11906
#1	17.176	.18962	.28351	-.0118	.19885
#2	17.285	.19047	.28394	-.0171	.19919
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181049-C-2-D MSD Acquired: 2/19/2021 20:16:42 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.19858**	**.19553**	**.19887**	**.0035**
Stddev	.00016	.00026	.00133	.0007
%RSD	.07946	.13233	.67034	19.33
#1	.19846	.19572	.19981	.0040
#2	.19869	.19535	.19793	.0030
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4457.4**	**4122.3**	**67233.**	**2814.6**
Stddev	6.3	5.9	266.	15.1
%RSD	.14098	.14201	.39590	.53596
#1	4461.8	4126.5	67044.	2825.3
#2	4453.0	4118.2	67421.	2803.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.071%	100.58%	100.43%	101.08%
Range				

Sample Name: CCV-6339745 Acquired: 2/19/2021 20:20:17 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.97641**	**47.499**	**.99392**	**1.0340**	**1.0001**	**.98901**	**48.853**	**1.0177**
Stddev	.00090	.017	.00121	.0005	.0018	.00019	.022	.0018
%RSD	.09219	.03582	.12221	.05036	.17838	.01877	.04423	.17543
#1	.97705	47.487	.99306	1.0336	.99889	.98888	48.837	1.0164
#2	.97578	47.511	.99478	1.0344	1.0014	.98915	48.868	1.0190
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9469**	**1.0074**	**.97892**	**1.0062**	**46.328**	**50.114**	**.92485**	**49.246**
Stddev	.0642	.0015	.00020	.0006	.486	.060	.00398	.099
%RSD	6.779	.14597	.02038	.06318	1.0499	.11987	.43021	.20077
#1	.9923	1.0063	.97906	1.0058	45.984	50.157	.92204	49.316
#2	.9015	1.0084	.97878	1.0067	46.672	50.072	.92767	49.176
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96366**	**1.0192**	**48.555**	**.99997**	**25.81**	**1.0107**	**25.37**	**.98782**
Stddev	.00144	.0040	.096	.00131	.20	.0005	.04	.00031
%RSD	.14947	.39370	.19822	.13062	.7864	.05275	.1440	.03189
#1	.96467	1.0163	48.487	.99904	25.95	1.0103	25.40	.98759
#2	.96264	1.0220	48.623	1.0009	25.66	1.0111	25.35	.98804
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6339745 Acquired: 2/19/2021 20:20:17 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.99960	9.5131	.98166	.98107	.9506	1.0004	1.0188	.99550
Stddev	.00164	.0398	.00420	.00089	.0106	.0003	.0012	.00034
%RSD	.16386	.41838	.42803	.09092	1.114	.03202	.12164	.03389
#1	1.0008	9.4850	.97869	.98044	.9581	1.0002	1.0196	.99573
#2	.99844	9.5413	.98463	.98170	.9431	1.0006	1.0179	.99526
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	1.0043	.8695
Stddev	.0022	.0079
%RSD	.21765	.9054
#1	1.0058	.8639
#2	1.0027	.8750
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4115.5	3997.5	64330.	2750.8
Stddev	25.4	30.5	6.	7.6
%RSD	.61732	.76300	.00999	.27744
#1	4133.4	4019.1	64335.	2756.2
#2	4097.5	3975.9	64326.	2745.4

Sample Name: CCB-6338400 Acquired: 2/19/2021 20:23:53 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**-.00594**	**.00068**	**.00032**	**-.00007**	**-.00009**	**-.00814**	**-.00003**
Stddev	.00060	.01958	.00285	.00006	.00000	.00011	.00017	.00002
%RSD	281.64	329.42	419.09	18.639	1.6934	131.81	2.0794	78.920
#1	.00064	-.01979	.00270	.00036	-.00007	-.00001	-.00826	-.00004
#2	-.00021	.00790	-.00134	.00028	-.00007	-.00017	-.00802	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0273**	**-.00021**	**-.00001**	**-.00021**	**-.00246**	**.06497**	**.00077**	**-.00226**
Stddev	.0609	.00010	.00022	.00100	.00776	.02577	.00058	.00251
%RSD	223.0	46.732	1584.2	466.51	315.64	39.658	75.624	111.23
#1	.0704	-.00027	-.00017	-.00092	.00303	.08319	.00036	-.00403
#2	-.0158	-.00014	.00014	.00049	-.00794	.04675	.00118	-.00048
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.00173**	**-.00588**	**-.00022**	**-.0023**	**-.00016**	**-.0039**	**-.00037**
Stddev	.00002	.00070	.00336	.00009	.0011	.00079	.0005	.00106
%RSD	15.319	40.650	57.200	41.349	49.67	491.54	12.47	283.93
#1	-.00012	.00223	-.00825	-.00029	-.0031	-.00072	-.0036	.00038
#2	-.00014	.00123	-.00350	-.00016	-.0015	.00040	-.0043	-.00112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6338400 Acquired: 2/19/2021 20:23:53 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**-.00538**	**.00074**	**-.00006**	**-.0041**	**-.00020**	**-.00160**	**-.00015**
Stddev	.00042	.00737	.00003	.00010	.0014	.00017	.00098	.00038
%RSD	117.53	137.09	3.8898	167.40	32.58	86.424	61.260	253.69
#1	.00006	-.01059	.00072	.00001	-.0051	-.00032	-.00229	.00012
#2	.00065	-.00016	.00076	-.00013	-.0032	-.00008	-.00091	-.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**-.00021**	**-.0011**
Stddev	.00000	.0006
%RSD	.65034	59.77
#1	-.00021	-.0015
#2	-.00021	-.0006
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4660.3**	**4086.2**	**66881.**	**2639.1**
Stddev	19.6	20.2	193.	4.7
%RSD	.42121	.49318	.28902	.17690
#1	4646.4	4071.9	67018.	2642.4
#2	4674.1	4100.4	66745.	2635.8

Sample Name: CCVL-6339744 Acquired: 2/19/2021 20:27:41 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00608**	**.17499**	**.01463**	**.01866**	**.00192**	**.00185**	**.49257**	**.00192**
Stddev	.00043	.02570	.00042	.00012	.00001	.00001	.00714	.00010
%RSD	7.1141	14.686	2.8627	.65690	.58614	.77168	1.4500	5.0306
#1	.00638	.15682	.01493	.01857	.00191	.00184	.49762	.00199
#2	.00577	.19316	.01434	.01875	.00193	.00186	.48752	.00185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0719**	**.00357**	**.00390**	**.00864**	**.04094**	**.45021**	**.02536**	**.19907**
Stddev	.0149	.00000	.00008	.00008	.00132	.03289	.00006	.00029
%RSD	20.77	.11385	1.9391	.89530	3.2238	7.3062	.22812	.14774
#1	.0825	.00357	.00385	.00870	.04187	.47347	.02540	.19886
#2	.0614	.00356	.00396	.00859	.04001	.42695	.02532	.19928
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00279**	**.00976**	**.95156**	**.00953**	**-.0391**	**.00976**	**.1873**	**.01731**
Stddev	.00000	.00001	.00278	.00001	.0006	.00035	.0002	.00132
%RSD	.13789	.07750	.29214	.08449	1.612	3.6130	.1081	7.6194
#1	.00279	.00975	.94959	.00953	-.0386	.01001	.1871	.01824
#2	.00280	.00976	.95352	.00952	-.0395	.00951	.1874	.01638
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVL-6339744 Acquired: 2/19/2021 20:27:41 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02125	.46327	.00915	.00459	-.0241	.00446	.01903	.00466
Stddev	.00034	.00922	.00071	.00008	.0007	.00008	.00076	.00012
%RSD	1.5905	1.9897	7.7599	1.6731	2.798	1.8723	3.9867	2.6373
#1	.02149	.45675	.00965	.00464	-.0246	.00441	.01956	.00457
#2	.02102	.46978	.00864	.00454	-.0237	.00452	.01849	.00475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.00928	-.0004
Stddev	.00052	.0006
%RSD	5.6531	150.6
#1	.00891	.0000
#2	.00965	-.0008
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4690.4	4159.9	68205.	2699.3
Stddev	3.7	3.5	525.	18.5
%RSD	.07995	.08409	.76960	.68456
#1	4693.0	4162.4	68576.	2686.2
#2	4687.7	4157.4	67834.	2712.3

Sample Name: 480-181247-A-1-A Acquired: 2/19/2021 20:31:29 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**-.01781**	**.00511**	**.00589**	**.00062**
Stddev	.00003	.00501	.00146	.00039	.00000
%RSD	13.345	28.135	28.545	6.6691	.19504
#1	.00019	-.02136	.00408	.00561	.00062
#2	.00023	-.01427	.00614	.00616	.00062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.25222**	**.00006**	**.0180**	**-.00013**
Stddev	.00004	.00319	.00006	.0475	.00001
%RSD	23.574	1.2654	99.321	263.8	4.9852
#1	-.00021	.25448	.00011	.0516	-.00013
#2	-.00015	.24997	.00002	-.0156	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00121**	**-.00035**	**.01272**	**.19746**	**-.00114**
Stddev	.00013	.00041	.00278	.02344	.00111
%RSD	10.708	118.32	21.885	11.872	97.392
#1	.00130	-.00064	.01075	.21403	-.00035
#2	.00112	-.00006	.01469	.18088	-.00192
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181247-A-1-A Acquired: 2/19/2021 20:31:29 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10317**	**.00078**	**-.00054**	**6.3098**	**.00135**
Stddev	.00007	.00000	.00003	.0396	.00007
%RSD	.06953	.12915	5.4912	.62733	5.2828
#1	.10322	.00078	-.00052	6.2818	.00130
#2	.10312	.00078	-.00056	6.3378	.00140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0240**	**.00009**	F **90.09**	**.00184**	**.00919**
Stddev	.0011	.00059	.40	.00009	.00141
%RSD	4.705	657.56	.4408	4.9286	15.371
#1	.0232	.00051	90.37	.00190	.00819
#2	.0248	-.00033	89.81	.00177	.01019
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.00		
Low Limit			-.2000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00117**	**.00102**	**.00127**	**-.0120**	**.00082**
Stddev	.00041	.00081	.00001	.0151	.00041
%RSD	35.197	79.388	.86177	126.2	49.421
#1	-.00088	.00045	.00127	-.0013	.00111
#2	-.00146	.00160	.00128	-.0226	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181247-A-1-A Acquired: 2/19/2021 20:31:29 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00273**	**-.00024**	**.00863**	**-.0013**
Stddev	.00036	.00037	.00015	.0009
%RSD	13.060	153.69	1.7159	70.44
#1	-.00298	.00002	.00852	-.0007
#2	-.00248	-.00050	.00873	-.0020
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4566.6**	**3949.4**	**64731.**	**2573.8**
Stddev	.6	2.8	384.	17.1
%RSD	.01269	.07091	.59325	.66607
#1	4566.2	3951.3	65002.	2585.9
#2	4567.0	3947.4	64459.	2561.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.400%	96.357%	96.694%	92.428%
Range				

Sample Name: 480-181247-A-2-A Acquired: 2/19/2021 20:35:16 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00436**	**.00633**	**.00566**	**.00068**
Stddev	.00011	.00562	.00017	.00027	.00002
%RSD	174.63	128.86	2.7073	4.6941	3.2044
#1	-.00014	.00039	.00621	.00547	.00066
#2	.00002	.00834	.00645	.00584	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.24409**	**-.00007**	**-.0246**	**-.00010**
Stddev	.00001	.00006	.00005	.0356	.00002
%RSD	11.325	.02296	71.491	144.8	23.581
#1	-.00012	.24413	-.00010	.0006	-.00011
#2	-.00014	.24405	-.00003	-.0497	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00093**	**-.00029**	**.00720**	**.19369**	**-.00247**
Stddev	.00022	.00041	.00639	.00928	.00203
%RSD	23.593	143.20	88.737	4.7907	82.173
#1	.00077	-.00058	.00268	.18713	-.00104
#2	.00108	.00000	.01171	.20025	-.00391
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181247-A-2-A Acquired: 2/19/2021 20:35:16 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10594**	**.00070**	**-.00096**	**6.5899**	**.00129**
Stddev	.00102	.00001	.00006	.0132	.00005
%RSD	.96608	2.0918	6.7394	.19965	3.9264
#1	.10667	.00069	-.00091	6.5806	.00133
#2	.10522	.00071	-.00101	6.5992	.00126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0243**	**-.00005**	**77.32**	**.00359**	**.00745**
Stddev	.0002	.00020	.45	.00023	.00005
%RSD	.7626	407.24	.5762	6.3437	.64164
#1	.0241	.00009	77.63	.00343	.00749
#2	.0244	-.00019	77.00	.00375	.00742
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.00100**	**.00126**	**-.0135**	**.00040**
Stddev	.03018	.00081	.00000	.0036	.00026
%RSD	23350.	81.397	.07777	26.51	64.817
#1	.02121	.00042	.00126	-.0110	.00059
#2	-.02147	.00157	.00126	-.0160	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181247-A-2-A Acquired: 2/19/2021 20:35:16 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00257**	**-.00031**	**.00952**	**-.0014**
Stddev	.00010	.00028	.00013	.0003
%RSD	3.7261	90.119	1.3902	18.40
#1	-.00251	-.00050	.00943	-.0012
#2	-.00264	-.00011	.00961	-.0016
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4528.6**	**3900.4**	**63743.**	**2512.8**
Stddev	5.3	10.0	99.	1.9
%RSD	.11695	.25652	.15501	.07364
#1	4532.3	3907.5	63673.	2514.1
#2	4524.8	3893.3	63813.	2511.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.589%	95.163%	95.218%	90.236%
Range				

Sample Name: 480-181247-A-3-A Acquired: 2/19/2021 20:39:03 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**-.02610**	**.00612**	**.00560**	**.00060**
Stddev	.00093	.04948	.00112	.00023	.00002
%RSD	201.60	189.60	18.267	4.0703	3.3300
#1	.00112	-.06109	.00691	.00577	.00062
#2	-.00020	.00889	.00533	.00544	.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.27364**	**-.00018**	**.0427**	**.00004**
Stddev	.00003	.00597	.00000	.0035	.00016
%RSD	37.617	2.1802	2.1584	8.154	427.84
#1	-.00011	.26942	-.00018	.0451	-.00008
#2	-.00006	.27786	-.00018	.0402	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00107**	**-.00044**	**.01500**	**.14767**	**-.00198**
Stddev	.00014	.00038	.00288	.00794	.00087
%RSD	12.904	85.500	19.200	5.3771	43.782
#1	.00097	-.00071	.01704	.14205	-.00260
#2	.00117	-.00018	.01297	.15328	-.00137
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181247-A-3-A Acquired: 2/19/2021 20:39:03 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10461**	**.00072**	**-.00084**	**6.4510**	**.00144**
Stddev	.00014	.00000	.00006	.0016	.00030
%RSD	.13619	.52820	7.3449	.02440	20.782
#1	.10450	.00072	-.00088	6.4499	.00123
#2	.10471	.00072	-.00079	6.4522	.00165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0272**	**.00011**	**77.15**	**.00257**	**.00626**
Stddev	.0001	.00010	.07	.00227	.00173
%RSD	.4970	90.989	.0858	88.645	27.658
#1	.0273	.00018	77.19	.00096	.00748
#2	.0271	.00004	77.10	.00417	.00504
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01312**	**.00062**	**.00124**	**-.0176**	**.00086**
Stddev	.00632	.00076	.00006	.0220	.00030
%RSD	48.224	123.24	4.7972	124.9	34.466
#1	.00864	.00116	.00119	-.0020	.00065
#2	.01759	.00008	.00128	-.0331	.00107
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181247-A-3-A Acquired: 2/19/2021 20:39:03 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00332**	**-.00014**	**.00570**	**-.0000**
Stddev	.00014	.00027	.00016	.0011
%RSD	4.1708	201.69	2.8095	4297.
#1	-.00342	.00006	.00559	-.0008
#2	-.00323	-.00033	.00581	.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4633.1**	**4008.7**	**66150.**	**2608.5**
Stddev	3.8	4.3	199.	12.6
%RSD	.08132	.10696	.30157	.48411
#1	4630.5	4005.7	66009.	2599.6
#2	4635.8	4011.7	66291.	2617.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.819%	97.805%	98.815%	93.675%
Range				

Sample Name: 480-181247-A-4-A Acquired: 2/19/2021 20:42:51 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**-.00508**	**.00468**	**.00499**	**.00066**
Stddev	.00031	.03907	.00067	.00012	.00003
%RSD	117.27	769.15	14.365	2.4396	4.1929
#1	.00048	.02255	.00515	.00491	.00064
#2	.00005	-.03271	.00420	.00508	.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.25090**	**-.00002**	**.0227**	**-.00002**
Stddev	.00010	.00293	.00011	.0050	.00002
%RSD	53.109	1.1680	490.83	22.18	124.80
#1	-.00026	.24883	.00006	.0263	-.00000
#2	-.00012	.25297	-.00010	.0192	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00115**	**.00035**	**.01060**	**.21009**	**-.00114**
Stddev	.00030	.00018	.00181	.02794	.00270
%RSD	26.347	51.031	17.093	13.298	235.87
#1	.00137	.00023	.01188	.19033	.00076
#2	.00094	.00048	.00931	.22984	-.00305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181247-A-4-A Acquired: 2/19/2021 20:42:51 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10653**	**.00080**	**-.00078**	**6.4575**	**.00129**
Stddev	.00297	.00001	.00019	.0177	.00001
%RSD	2.7847	1.3335	23.769	.27345	.92562
#1	.10443	.00079	-.00065	6.4450	.00130
#2	.10863	.00081	-.00092	6.4700	.00128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0256**	**.00004**	F **93.79**	**.00262**	**.00916**
Stddev	.0008	.00005	.29	.00198	.00132
%RSD	2.943	120.66	.3053	75.787	14.359
#1	.0261	.00008	93.99	.00121	.00823
#2	.0251	.00001	93.59	.00402	.01009
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.00		
Low Limit			-.2000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00233**	**.00065**	**.00121**	**-.0076**	**.00062**
Stddev	.01150	.00023	.00009	.0150	.00019
%RSD	492.50	35.937	7.8209	197.7	30.991
#1	.00580	.00081	.00114	-.0182	.00075
#2	-.01047	.00048	.00128	.0030	.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181247-A-4-A Acquired: 2/19/2021 20:42:51 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00283**	**-.00016**	**.00610**	**-.0021**
Stddev	.00104	.00017	.00018	.0004
%RSD	36.760	108.04	2.8974	16.55
#1	-.00356	-.00004	.00597	-.0019
#2	-.00209	-.00028	.00622	-.0024
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4587.8**	**3963.7**	**64993.**	**2581.4**
Stddev	2.2	.6	217.	9.5
%RSD	.04813	.01568	.33443	.36683
#1	4589.4	3964.2	65146.	2588.1
#2	4586.2	3963.3	64839.	2574.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.852%	96.708%	97.086%	92.703%
Range				

Sample Name: 480-181247-A-5-A Acquired: 2/19/2021 20:46:39 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**-.01098**	**.00745**	**.00581**	**.00070**
Stddev	.00109	.03381	.00046	.00028	.00000
%RSD	238.64	307.97	6.1769	4.8914	.32168
#1	.00031	-.03488	.00778	.00601	.00069
#2	-.00123	.01293	.00713	.00561	.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.24010**	**.00004**	**-.0140**	**-.00025**
Stddev	.00006	.00233	.00005	.0284	.00020
%RSD	42.501	.97130	123.07	203.4	77.643
#1	-.00020	.24175	.00008	.0061	-.00011
#2	-.00011	.23846	.00001	-.0341	-.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00164**	**.00017**	**.02537**	**.22240**	**.00084**
Stddev	.00038	.00039	.00137	.01792	.00084
%RSD	22.982	226.45	5.4038	8.0558	99.900
#1	.00137	.00045	.02440	.23507	.00144
#2	.00190	-.00010	.02634	.20974	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181247-A-5-A Acquired: 2/19/2021 20:46:39 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11002**	**.00092**	**-.00087**	**6.1279**	**.00149**
Stddev	.00061	.00006	.00010	.0217	.00016
%RSD	.55051	6.8642	12.007	.35475	10.895
#1	.10959	.00088	-.00080	6.1432	.00160
#2	.11045	.00097	-.00095	6.1125	.00137
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0276**	**.00008**	F **94.54**	**.00320**	**.00916**
Stddev	.0003	.00012	.41	.00103	.00045
%RSD	1.056	145.31	.4344	32.158	4.8772
#1	.0278	-.00000	94.83	.00247	.00884
#2	.0274	.00017	94.25	.00393	.00947
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.00		
Low Limit			-.2000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00267**	**.00151**	**.00126**	**-.0301**	**.00058**
Stddev	.00237	.00007	.00003	.0073	.00031
%RSD	88.966	4.4371	2.3180	24.33	54.640
#1	.00099	.00147	.00124	-.0352	.00080
#2	.00435	.00156	.00128	-.0249	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181247-A-5-A Acquired: 2/19/2021 20:46:39 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00361**	**-.00023**	**.00792**	**-.0006**
Stddev	.00001	.00012	.00038	.0010
%RSD	.23972	53.999	4.7873	159.6
#1	-.00361	-.00014	.00766	-.0013
#2	-.00362	-.00032	.00819	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4543.1**	**3907.8**	**63961.**	**2534.0**
Stddev	7.5	8.0	134.	1.3
%RSD	.16507	.20368	.20988	.05279
#1	4537.8	3902.1	64056.	2533.1
#2	4548.4	3913.4	63866.	2535.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.900%	95.342%	95.544%	91.000%
Range				

Sample Name: 480-181247-A-6-A Acquired: 2/19/2021 20:50:27 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**-.02515**	**.00674**	**.00514**	**.00065**
Stddev	.00001	.04409	.00141	.00020	.00000
%RSD	7.7004	175.31	20.926	3.9731	.44712
#1	-.00015	.00603	.00574	.00528	.00065
#2	-.00017	-.05632	.00773	.00500	.00065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.22614**	**-.00006**	**.0455**	**-.00016**
Stddev	.00008	.00365	.00008	.0353	.00013
%RSD	133.41	1.6124	138.94	77.64	85.002
#1	-.00000	.22872	-.00012	.0705	-.00025
#2	-.00011	.22357	-.00000	.0205	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00111**	**.00005**	**.01110**	**.20175**	**-.00090**
Stddev	.00001	.00049	.00573	.00659	.00023
%RSD	1.1830	945.93	51.582	3.2650	25.657
#1	.00110	-.00030	.01515	.20641	-.00107
#2	.00112	.00040	.00705	.19710	-.00074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181247-A-6-A Acquired: 2/19/2021 20:50:27 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10786**	**.00066**	**-.00079**	**6.5730**	**.00149**
Stddev	.00128	.00006	.00008	.0053	.00008
%RSD	1.1829	8.6066	10.323	.08111	5.3621
#1	.10696	.00062	-.00073	6.5692	.00144
#2	.10876	.00070	-.00085	6.5768	.00155
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0250**	**-.00030**	**81.48**	**.00102**	**.00795**
Stddev	.0014	.00121	.22	.00052	.00098
%RSD	5.704	407.08	.2756	50.939	12.365
#1	.0260	.00056	81.64	.00065	.00726
#2	.0240	-.00115	81.32	.00139	.00865
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00858**	**.00068**	**.00128**	**-.0127**	**.00059**
Stddev	.01366	.00025	.00011	.0018	.00007
%RSD	159.25	37.412	8.5597	14.54	11.386
#1	.01823	.00086	.00136	-.0140	.00055
#2	-.00108	.00050	.00120	-.0114	.00064
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181247-A-6-A Acquired: 2/19/2021 20:50:27 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00407**	**-.00009**	**.00727**	**.0001**
Stddev	.00027	.00018	.00019	.0013
%RSD	6.5853	185.06	2.6779	1362.
#1	-.00426	-.00022	.00713	-.0008
#2	-.00389	.00003	.00740	.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4609.2**	**3984.0**	**64758.**	**2564.7**
Stddev	7.1	4.1	150.	16.2
%RSD	.15335	.10283	.23188	.63053
#1	4614.2	3986.9	64864.	2553.3
#2	4604.2	3981.1	64652.	2576.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.309%	97.202%	96.735%	92.102%
Range				

Sample Name: 480-181247-A-7-A Acquired: 2/19/2021 20:54:14 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.01590**	**.00531**	**.00542**	**.00111**
Stddev	.00017	.00129	.00094	.00002	.00001
%RSD	132.17	8.1298	17.769	.39687	.46128
#1	.00025	.01499	.00464	.00544	.00110
#2	.00001	.01682	.00598	.00541	.00111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.39593**	**-.00005**	**-.0023**	**-.00017**
Stddev	.00007	.00261	.00014	.0110	.00003
%RSD	90.108	.65893	269.75	469.0	19.564
#1	-.00012	.39778	.00005	-.0101	-.00015
#2	-.00003	.39409	-.00016	.0054	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00109**	**.00047**	**.01255**	**.15962**	**-.00127**
Stddev	.00032	.00007	.00518	.04834	.00046
%RSD	29.556	15.035	41.232	30.283	36.450
#1	.00086	.00053	.01621	.12544	-.00159
#2	.00132	.00042	.00889	.19380	-.00094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181247-A-7-A Acquired: 2/19/2021 20:54:14 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10690**	**.00067**	**-.00091**	**6.4706**	**.00143**
Stddev	.00138	.00002	.00007	.0085	.00011
%RSD	1.2895	2.9945	7.6558	.13108	7.3795
#1	.10593	.00068	-.00096	6.4646	.00150
#2	.10788	.00066	-.00086	6.4766	.00135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0239**	**-.00051**	**74.10**	**.00243**	**.00820**
Stddev	.0001	.00023	.31	.00026	.00270
%RSD	.5878	43.818	.4239	10.658	32.968
#1	.0238	-.00067	74.32	.00224	.00629
#2	.0240	-.00035	73.88	.00261	.01011
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00327**	**.00089**	**.00135**	**-.0098**	**.00057**
Stddev	.01427	.00050	.00014	.0009	.00009
%RSD	435.83	56.710	10.379	8.962	15.138
#1	.01336	.00053	.00145	-.0104	.00051
#2	-.00681	.00124	.00125	-.0092	.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181247-A-7-A Acquired: 2/19/2021 20:54:14 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00297**	**-.00028**	**.01098**	**-.0011**
Stddev	.00042	.00012	.00018	.0005
%RSD	14.133	41.992	1.6219	49.91
#1	-.00326	-.00020	.01086	-.0007
#2	-.00267	-.00036	.01111	-.0015
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4580.8**	**3972.0**	**65356.**	**2588.6**
Stddev	7.5	5.9	464.	.7
%RSD	.16388	.14830	.71000	.02882
#1	4586.1	3976.2	65684.	2589.2
#2	4575.5	3967.8	65027.	2588.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.703%	96.910%	97.628%	92.961%
Range				

Sample Name: 480-181247-A-8-A Acquired: 2/19/2021 20:58:01 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.02268**	**.00591**	**.00509**	**.00066**
Stddev	.00021	.02306	.00039	.00004	.00001
%RSD	216.27	101.70	6.5320	.69653	2.0681
#1	-.00025	.00637	.00619	.00507	.00066
#2	.00005	.03899	.00564	.00512	.00065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.22854**	**-.00002**	**.0426**	**-.00019**
Stddev	.00001	.00682	.00010	.0304	.00003
%RSD	5.1834	2.9860	445.29	71.39	14.753
#1	-.00014	.23336	-.00009	.0641	-.00021
#2	-.00013	.22371	.00005	.0211	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00082**	**-.00018**	**.00678**	**.17874**	**-.00051**
Stddev	.00013	.00037	.00237	.00253	.00037
%RSD	15.804	204.11	34.931	1.4133	73.138
#1	.00091	.00008	.00511	.18052	-.00077
#2	.00073	-.00044	.00846	.17695	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181247-A-8-A Acquired: 2/19/2021 20:58:01 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10635**	**.00065**	**-.00079**	**6.5019**	**.00140**
Stddev	.00064	.00005	.00010	.0153	.00042
%RSD	.60487	7.8459	12.857	.23539	30.212
#1	.10589	.00069	-.00086	6.5127	.00170
#2	.10680	.00062	-.00072	6.4911	.00110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0224**	**-.00013**	**58.75**	**.00271**	**.00827**
Stddev	.0006	.00065	.15	.00225	.00023
%RSD	2.674	505.28	.2509	83.139	2.7628
#1	.0220	-.00059	58.86	.00430	.00843
#2	.0228	.00033	58.65	.00112	.00811
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02128**	**.00093**	**.00116**	**-.0317**	**.00092**
Stddev	.02558	.00025	.00013	.0202	.00029
%RSD	120.21	27.496	11.237	63.80	31.626
#1	.03937	.00075	.00126	-.0460	.00071
#2	.00319	.00111	.00107	-.0174	.00112
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181247-A-8-A Acquired: 2/19/2021 20:58:01 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00272**	**-.00019**	**.00534**	**-.0002**
Stddev	.00078	.00047	.00006	.0014
%RSD	28.575	246.69	1.0969	552.7
#1	-.00326	-.00053	.00538	.0007
#2	-.00217	.00014	.00530	-.0012
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4562.7**	**3939.7**	**64831.**	**2562.6**
Stddev	5.2	5.0	235.	7.9
%RSD	.11334	.12729	.36315	.30943
#1	4566.3	3943.2	64997.	2557.0
#2	4559.0	3936.1	64665.	2568.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.316%	96.121%	96.844%	92.028%
Range				

Sample Name: 480-181247-A-9-A Acquired: 2/19/2021 21:01:49 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	**-.00675**	**.00603**	**.00489**	**.00082**
Stddev	.00017	.00656	.00266	.00002	.00011
%RSD	39.108	97.172	44.111	.39575	12.965
#1	.00055	-.01139	.00791	.00490	.00089
#2	.00031	-.00211	.00415	.00487	.00074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.26261**	**-.00007**	**-.0015**	**-.00016**
Stddev	.00000	.00389	.00001	.0124	.00016
%RSD	.28326	1.4815	13.512	804.7	99.759
#1	-.00009	.26536	-.00007	.0072	-.00005
#2	-.00009	.25985	-.00008	-.0103	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00126**	**.00041**	**.01403**	**.18153**	**.00113**
Stddev	.00008	.00025	.00270	.00525	.00044
%RSD	6.6747	60.081	19.216	2.8936	39.059
#1	.00132	.00058	.01212	.17782	.00144
#2	.00120	.00024	.01593	.18525	.00082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181247-A-9-A Acquired: 2/19/2021 21:01:49 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10567**	**.00085**	**-.00092**	**6.4512**	**.00117**
Stddev	.00046	.00004	.00002	.0157	.00000
%RSD	.43372	4.6359	2.1211	.24302	.38558
#1	.10534	.00082	-.00093	6.4401	.00117
#2	.10599	.00088	-.00091	6.4623	.00117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0265**	**-.00025**	**87.14**	**.00299**	**.00826**
Stddev	.0016	.00053	.33	.00127	.00123
%RSD	5.924	214.54	.3780	42.535	14.880
#1	.0254	.00013	87.38	.00390	.00913
#2	.0276	-.00062	86.91	.00209	.00739
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01506**	**.00104**	**.00126**	**-.0094**	**.00088**
Stddev	.02558	.00020	.00001	.0068	.00002
%RSD	169.86	19.683	1.1909	72.43	2.7750
#1	-.03315	.00089	.00127	-.0142	.00086
#2	.00303	.00118	.00125	-.0046	.00090
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181247-A-9-A Acquired: 2/19/2021 21:01:49 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00196**	**-.00027**	**.01070**	**-.0015**
Stddev	.00045	.00008	.00028	.0031
%RSD	22.754	31.095	2.6575	201.9
#1	-.00227	-.00033	.01091	-.0037
#2	-.00164	-.00021	.01050	.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4628.8**	**3983.8**	**65581.**	**2566.9**
Stddev	17.3	19.4	75.	2.1
%RSD	.37317	.48607	.11414	.08020
#1	4616.6	3970.1	65528.	2565.4
#2	4641.1	3997.5	65634.	2568.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.728%	97.197%	97.965%	92.181%
Range				

Sample Name: CCV-6339745 Acquired: 2/19/2021 21:05:36 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.98569**	**48.663**	**.99909**	**1.0382**	**1.0155**	**1.0024**	**49.583**	**1.0216**
Stddev	.00445	.107	.00201	.0019	.0022	.0007	.022	.0001
%RSD	.45169	.21916	.20074	.18361	.21256	.07399	.04463	.01314
#1	.98884	48.739	.99767	1.0369	1.0170	1.0029	49.599	1.0217
#2	.98254	48.588	1.0005	1.0396	1.0139	1.0019	49.568	1.0215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.011**	**1.0136**	**.98541**	**1.0161**	**47.620**	**50.620**	**.96255**	**49.684**
Stddev	.097	.0005	.00340	.0006	.084	.064	.00391	.067
%RSD	9.578	.05188	.34550	.05852	.17579	.12664	.40617	.13431
#1	.9429	1.0132	.98782	1.0165	47.560	50.666	.96531	49.731
#2	1.080	1.0139	.98301	1.0157	47.679	50.575	.95978	49.637
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.97432**	**1.0236**	**49.906**	**1.0076**	**26.10**	**1.0179**	**27.00**	**.99510**
Stddev	.01002	.0043	.140	.0015	.08	.0030	.11	.00284
%RSD	1.0288	.42527	.28088	.14629	.2997	.29816	.3942	.28575
#1	.98141	1.0205	50.006	1.0066	26.16	1.0158	26.92	.99309
#2	.96723	1.0267	49.807	1.0087	26.05	1.0201	27.08	.99711
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6339745 Acquired: 2/19/2021 21:05:36 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0123	9.7089	.98626	1.0005	.9513	1.0035	1.0262	1.0004
Stddev	.0030	.0494	.00089	.0042	.0139	.0001	.0027	.0032
%RSD	.29391	.50858	.08990	.41795	1.457	.00863	.26647	.31832
#1	1.0144	9.7438	.98564	1.0035	.9415	1.0035	1.0243	1.0026
#2	1.0102	9.6740	.98689	.99757	.9610	1.0034	1.0281	.99813
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	1.0126	.8772
Stddev	.0097	.0057
%RSD	.95366	.6446
#1	1.0194	.8812
#2	1.0057	.8732
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4114.9	4009.6	64312.	2712.9
Stddev	14.0	12.3	332.	1.4
%RSD	.33938	.30799	.51601	.05235
#1	4124.8	4018.3	64077.	2711.9
#2	4105.0	4000.9	64547.	2714.0

Sample Name: CCB-6338400 Acquired: 2/19/2021 21:09:12 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**-.04433**	**-.00077**	**-.00061**	**-.00008**	**-.00011**	**-.00557**	**-.00011**
Stddev	.00083	.01114	.00119	.00052	.00003	.00008	.00092	.00004
%RSD	268.22	25.131	155.66	84.931	33.799	78.535	16.454	36.890
#1	.00089	-.05221	-.00161	-.00024	-.00006	-.00017	-.00492	-.00008
#2	-.00028	-.03645	.00008	-.00098	-.00010	-.00005	-.00622	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0207**	**-.00023**	**-.00015**	**-.00008**	**-.00131**	**.05260**	**-.00077**	**-.00155**
Stddev	.0141	.00029	.00005	.00010	.00038	.02712	.00136	.00251
%RSD	67.93	123.90	31.093	122.74	29.393	51.559	176.23	161.90
#1	.0307	-.00003	-.00018	-.00001	-.00104	.03342	.00019	.00022
#2	.0108	-.00044	-.00012	-.00015	-.00158	.07177	-.00173	-.00332
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00147**	**-.03459**	**-.00020**	**-.0034**	**.00031**	F **.8843**	**-.00024**
Stddev	.00001	.00044	.00342	.00003	.0025	.00056	.0643	.00114
%RSD	6.6916	29.906	9.9004	16.596	72.81	179.83	7.272	467.07
#1	-.00014	.00178	-.03217	-.00018	-.0016	.00071	.8389	.00056
#2	-.00015	.00116	-.03702	-.00023	-.0051	-.00009	.9298	-.00105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Fail	Chk Pass
High Limit							.2000	
Low Limit							-.2000	

Sample Name: CCB-6338400 Acquired: 2/19/2021 21:09:12 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00126**	**.01824**	**.00030**	**-.00023**	**-.0034**	**-.00017**	**-.00001**	**-.00039**
Stddev	.00037	.01719	.00036	.00008	.0029	.00012	.00009	.00028
%RSD	28.911	94.236	120.76	33.925	84.93	69.761	914.50	71.425
#1	-.00101	.00609	.00056	-.00017	-.0055	-.00009	.00005	-.00058
#2	-.00152	.03040	.00004	-.00028	-.0014	-.00026	-.00007	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**-.00048**	**-.0013**
Stddev	.00013	.0012
%RSD	27.445	94.99
#1	-.00057	-.0021
#2	-.00039	-.0004
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4680.3**	**4124.3**	**68033.**	**2706.8**
Stddev	8.2	7.9	140.	.5
%RSD	.17468	.19108	.20620	.01918
#1	4674.5	4118.8	68132.	2707.2
#2	4686.1	4129.9	67934.	2706.5

Sample Name: CCVL-6339744 Acquired: 2/19/2021 21:13:01 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00573	.16381	.01517	.01836	.00194	.00184	.48047	.00194
Stddev	.00048	.00597	.00082	.00025	.00001	.00000	.00331	.00002
%RSD	8.4578	3.6433	5.4149	1.3599	.31262	.17935	.68854	1.1329
#1	.00608	.15959	.01575	.01853	.00194	.00184	.47813	.00192
#2	.00539	.16803	.01459	.01818	.00193	.00184	.48281	.00195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0554	.00358	.00372	.00903	.03918	.45087	.02681	.19454
Stddev	.0148	.00014	.00023	.00040	.00443	.02757	.00116	.00144
%RSD	26.74	3.9908	6.2000	4.4567	11.298	6.1160	4.3400	.73899
#1	.0659	.00348	.00389	.00931	.03605	.47036	.02598	.19353
#2	.0450	.00368	.00356	.00874	.04231	.43137	.02763	.19556
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00283	.00958	.92605	.00909	-.0387	.00960	F .8107	.01856
Stddev	.00001	.00005	.01110	.00020	.0008	.00064	.0615	.00114
%RSD	.27488	.48412	1.1985	2.1872	1.984	6.7135	7.584	6.1303
#1	.00283	.00961	.91821	.00895	-.0382	.01005	.7673	.01776
#2	.00282	.00954	.93390	.00924	-.0392	.00914	.8542	.01937
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Fail	Chk Pass
Value							.2000	
Range							50.00%	

Sample Name: CCVL-6339744 Acquired: 2/19/2021 21:13:01 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02143	.44528	.00873	.00454	-.0255	.00443	.01917	.00433
Stddev	.00052	.00728	.00010	.00003	.0024	.00008	.00040	.00009
%RSD	2.4329	1.6338	1.1608	.57589	9.449	1.8692	2.0835	2.0516
#1	.02180	.44014	.00866	.00452	-.0238	.00449	.01945	.00427
#2	.02107	.45043	.00880	.00456	-.0272	.00437	.01888	.00439
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.00914	.0000
Stddev	.00001	.0014
%RSD	.14764	4122.
#1	.00913	.0011
#2	.00915	-.0010
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4738.3	4198.8	68900.	2743.2
Stddev	20.0	23.0	386.	15.1
%RSD	.42301	.54893	.55972	.54970
#1	4724.2	4182.5	68628.	2753.8
#2	4752.5	4215.1	69173.	2732.5

Sample Name: 480-181248-A-1-A Acquired: 2/19/2021 21:16:49 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.01181**	**.00510**	**.00529**	**.00146**
Stddev	.00017	.00831	.00057	.00015	.00000
%RSD	1699.1	70.345	11.159	2.8928	.12051
#1	.00013	.01769	.00550	.00518	.00146
#2	-.00011	.00594	.00470	.00540	.00146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.83558**	**-.00008**	**.0309**	**-.00024**
Stddev	.00013	.00497	.00002	.0192	.00016
%RSD	140.08	.59428	24.024	62.15	67.549
#1	-.00018	.83909	-.00006	.0173	-.00036
#2	-.00000	.83207	-.00009	.0445	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00120**	**.00011**	**.01959**	**.13961**	**-.00100**
Stddev	.00022	.00041	.00454	.01073	.00196
%RSD	18.380	387.02	23.166	7.6839	196.92
#1	.00104	.00040	.02280	.13202	.00039
#2	.00136	-.00018	.01638	.14719	-.00239
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181248-A-1-A Acquired: 2/19/2021 21:16:49 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11712**	**.00211**	**-.00059**	**6.4395**	**.00114**
Stddev	.00083	.00005	.00007	.0486	.00015
%RSD	.70673	2.5968	11.443	.75402	13.080
#1	.11771	.00215	-.00064	6.4738	.00124
#2	.11654	.00207	-.00054	6.4052	.00103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0292**	**-.00038**	F **92.00**	**.00374**	**.00760**
Stddev	.0010	.00000	.16	.00158	.00191
%RSD	3.461	.25793	.1729	42.334	25.119
#1	.0299	-.00038	92.12	.00486	.00625
#2	.0285	-.00039	91.89	.00262	.00895
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.00		
Low Limit			-.2000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01434**	**.00081**	**.00154**	**-.0091**	**.00077**
Stddev	.01655	.00046	.00009	.0082	.00023
%RSD	115.42	56.590	6.1503	89.90	30.221
#1	.02605	.00048	.00147	-.0033	.00094
#2	.00264	.00113	.00161	-.0148	.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181248-A-1-A Acquired: 2/19/2021 21:16:49 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00292**	**-.00010**	**.02972**	**-.0013**
Stddev	.00061	.00007	.00033	.0018
%RSD	20.924	72.743	1.1176	139.8
#1	-.00335	-.00015	.02995	-.0000
#2	-.00249	-.00005	.02948	-.0025
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4543.3**	**3940.7**	**64736.**	**2575.0**
Stddev	11.7	9.0	120.	4.8
%RSD	.25658	.22777	.18595	.18738
#1	4551.6	3947.1	64821.	2571.6
#2	4535.1	3934.4	64651.	2578.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.904%	96.147%	96.702%	92.473%
Range				

Sample Name: 480-181248-A-2-A Acquired: 2/19/2021 21:20:37 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**.03972**	**.00691**	**.00546**	**.00072**
Stddev	.00043	.01874	.00162	.00005	.00001
%RSD	76.692	47.190	23.498	1.0040	2.0529
#1	.00026	.02647	.00806	.00550	.00073
#2	.00086	.05297	.00577	.00542	.00071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.24878**	**-.00019**	**.0518**	**-.00012**
Stddev	.00000	.00155	.00006	.0264	.00005
%RSD	5.4357	.62496	30.171	51.01	42.477
#1	-.00008	.24768	-.00015	.0331	-.00015
#2	-.00007	.24988	-.00023	.0704	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00124**	**-.00035**	**.01505**	**.16784**	**-.00058**
Stddev	.00001	.00044	.00201	.02943	.00242
%RSD	.43835	125.12	13.383	17.534	420.13
#1	.00124	-.00004	.01363	.18865	.00114
#2	.00124	-.00066	.01648	.14703	-.00229
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181248-A-2-A Acquired: 2/19/2021 21:20:37 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10485**	**.00112**	**-.00085**	**6.5246**	**.00130**
Stddev	.00101	.00003	.00003	.0005	.00037
%RSD	.96457	2.6670	3.0272	.00775	28.233
#1	.10414	.00110	-.00083	6.5242	.00156
#2	.10557	.00114	-.00087	6.5250	.00104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0254**	**-.00067**	**85.69**	**.00204**	**.00908**
Stddev	.0020	.00067	1.06	.00060	.00214
%RSD	7.829	100.65	1.236	29.616	23.502
#1	.0268	-.00114	86.44	.00247	.00758
#2	.0240	-.00019	84.94	.00161	.01059
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02134**	**.00099**	**.00131**	**-.0052**	**.00059**
Stddev	.04122	.00039	.00009	.0031	.00004
%RSD	193.21	39.193	6.5855	58.47	7.5861
#1	-.00781	.00126	.00138	-.0031	.00062
#2	.05049	.00071	.00125	-.0074	.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181248-A-2-A Acquired: 2/19/2021 21:20:37 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00374**	**-.00041**	**.00906**	**-.0001**
Stddev	.00080	.00025	.00009	.0007
%RSD	21.253	61.316	1.0392	1427.
#1	-.00318	-.00059	.00899	.0005
#2	-.00431	-.00023	.00912	-.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4538.3**	**3920.8**	**64102.**	**2522.6**
Stddev	10.0	13.0	21.	2.6
%RSD	.22002	.33114	.03315	.10376
#1	4531.3	3911.6	64087.	2524.5
#2	4545.4	3930.0	64117.	2520.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.797%	95.661%	95.754%	90.590%
Range				

Sample Name: 480-181248-A-3-A Acquired: 2/19/2021 21:24:24 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**-.00013**	**.00377**	**.00483**	**.00065**
Stddev	.00015	.05522	.00096	.00033	.00001
%RSD	47.547	41601.	25.480	6.8523	1.6827
#1	.00021	.03891	.00444	.00460	.00064
#2	.00042	-.03918	.00309	.00506	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.35243**	**.00001**	**.0195**	**-.00010**
Stddev	.00000	.00173	.00003	.0393	.00010
%RSD	2.9675	.49007	215.97	201.3	100.75
#1	-.00016	.35365	.00003	.0473	-.00016
#2	-.00017	.35120	-.00001	-.0083	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00079**	**-.00001**	**.00922**	**.16021**	**.00069**
Stddev	.00030	.00028	.00031	.01814	.00007
%RSD	38.081	2442.0	3.4106	11.321	10.446
#1	.00058	.00019	.00900	.14738	.00064
#2	.00100	-.00021	.00945	.17304	.00074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181248-A-3-A Acquired: 2/19/2021 21:24:24 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10676**	**.00090**	**-.00078**	**6.5842**	**.00131**
Stddev	.00303	.00001	.00025	.0046	.00011
%RSD	2.8408	1.2341	31.427	.06957	8.4934
#1	.10461	.00090	-.00061	6.5810	.00123
#2	.10890	.00091	-.00095	6.5875	.00139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0227**	**-.00038**	**61.10**	**.00244**	**.00829**
Stddev	.0006	.00020	.06	.00163	.00145
%RSD	2.488	54.177	.1003	66.855	17.482
#1	.0223	-.00023	61.14	.00360	.00932
#2	.0231	-.00052	61.05	.00129	.00727
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01028**	**.00101**	**.00136**	**-.0254**	**.00022**
Stddev	.00710	.00017	.00008	.0213	.00011
%RSD	69.024	16.840	5.5548	83.73	49.682
#1	-.01530	.00114	.00131	-.0405	.00014
#2	-.00526	.00089	.00142	-.0104	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181248-A-3-A Acquired: 2/19/2021 21:24:24 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00277**	**-.00018**	**.01019**	**-.0009**
Stddev	.00025	.00035	.00043	.0009
%RSD	8.8851	201.08	4.2312	92.08
#1	-.00260	.00007	.01050	-.0003
#2	-.00295	-.00042	.00989	-.0016
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4597.2**	**3971.0**	**64997.**	**2537.3**
Stddev	26.8	30.7	231.	17.5
%RSD	.58349	.77350	.35565	.68854
#1	4578.2	3949.3	65161.	2525.0
#2	4616.2	3992.8	64834.	2549.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.053%	96.886%	97.093%	91.118%
Range				

Sample Name: 480-181248-A-4-A Acquired: 2/19/2021 21:28:12 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.00507**	**.00427**	**.00521**	**.00074**
Stddev	.00065	.02495	.00005	.00001	.00001
%RSD	451.75	492.09	1.1251	.22159	1.7508
#1	-.00061	.02271	.00423	.00520	.00075
#2	.00032	-.01257	.00430	.00522	.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.37042**	**-.00007**	**.0190**	**-.00019**
Stddev	.00008	.00582	.00001	.0290	.00004
%RSD	84.818	1.5715	10.842	152.6	20.885
#1	-.00004	.36631	-.00006	-.0015	-.00022
#2	-.00015	.37454	-.00007	.0395	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00124**	**.00011**	**.00641**	**.14820**	**-.00004**
Stddev	.00007	.00038	.00094	.03423	.00034
%RSD	5.3889	340.81	14.714	23.095	924.92
#1	.00129	.00038	.00708	.17241	.00020
#2	.00120	-.00016	.00574	.12400	-.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181248-A-4-A Acquired: 2/19/2021 21:28:12 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10556**	**.00119**	**-.00095**	**6.5304**	**.00141**
Stddev	.00252	.00007	.00003	.0338	.00010
%RSD	2.3878	5.8526	2.7672	.51700	7.1693
#1	.10378	.00123	-.00093	6.5065	.00148
#2	.10734	.00114	-.00097	6.5542	.00134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0302**	**.00022**	F **90.61**	**.00301**	**.00676**
Stddev	.0015	.00030	.20	.00098	.00155
%RSD	4.868	134.55	.2155	32.364	22.870
#1	.0292	.00044	90.75	.00232	.00566
#2	.0313	.00001	90.47	.00370	.00785
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.00		
Low Limit			-.2000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00071**	**.00059**	**.00129**	**-.0063**	**.00019**
Stddev	.00637	.00023	.00007	.0227	.00057
%RSD	892.79	39.307	5.7277	359.1	298.63
#1	.00379	.00042	.00124	.0097	.00059
#2	-.00522	.00075	.00134	-.0224	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181248-A-4-A Acquired: 2/19/2021 21:28:12 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00373**	**-.00020**	**.00801**	**-.0004**
Stddev	.00015	.00015	.00021	.0003
%RSD	3.9683	73.846	2.6780	67.48
#1	-.00362	-.00010	.00786	-.0006
#2	-.00383	-.00031	.00816	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4575.8**	**3961.6**	**64546.**	**2557.8**
Stddev	10.1	12.9	69.	5.2
%RSD	.22141	.32465	.10653	.20272
#1	4568.6	3952.5	64497.	2561.5
#2	4582.9	3970.7	64594.	2554.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.596%	96.656%	96.418%	91.856%
Range				

Sample Name: 480-181248-A-5-A Acquired: 2/19/2021 21:31:59 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.03371**	**.00628**	**.00524**	**.00086**
Stddev	.00016	.02211	.00057	.00019	.00002
%RSD	186.67	65.581	9.1387	3.6256	2.6746
#1	.00003	.04935	.00668	.00510	.00085
#2	-.00020	.01808	.00587	.00537	.00088
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.67030**	**-.00000**	**.0339**	**-.00007**
Stddev	.00005	.00962	.00001	.0081	.00012
%RSD	32.821	1.4350	254.86	24.02	170.70
#1	-.00021	.66350	-.00001	.0397	.00002
#2	-.00013	.67710	.00000	.0282	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00101**	**-.00026**	**.01877**	**.20616**	**-.00346**
Stddev	.00033	.00057	.00047	.04020	.00027
%RSD	32.266	218.37	2.4800	19.498	7.8945
#1	.00078	.00014	.01844	.17773	-.00326
#2	.00124	-.00066	.01910	.23458	-.00365
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181248-A-5-A Acquired: 2/19/2021 21:31:59 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11042**	**.00181**	**-.00093**	**6.4354**	**.00136**
Stddev	.00024	.00000	.00008	.0397	.00019
%RSD	.22122	.14407	9.0522	.61752	13.679
#1	.11059	.00181	-.00087	6.4073	.00123
#2	.11025	.00181	-.00099	6.4635	.00149
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0301**	**-.00078**	F **95.27**	**.00307**	**.00946**
Stddev	.0009	.00012	.07	.00090	.00278
%RSD	3.061	15.751	.0728	29.253	29.343
#1	.0294	-.00069	95.32	.00243	.01142
#2	.0308	-.00086	95.22	.00370	.00750
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.00		
Low Limit			-.2000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01245**	**.00097**	**.00144**	**-.0153**	**.00096**
Stddev	.00589	.00014	.00013	.0098	.00054
%RSD	47.301	14.721	8.9790	64.15	55.980
#1	.00828	.00107	.00135	-.0083	.00058
#2	.01661	.00087	.00153	-.0222	.00134
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181248-A-5-A Acquired: 2/19/2021 21:31:59 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00298**	**-.00033**	**.02015**	**-.0007**
Stddev	.00082	.00015	.00044	.0020
%RSD	27.375	45.449	2.1716	289.6
#1	-.00356	-.00043	.02046	.0007
#2	-.00240	-.00022	.01984	-.0021
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4591.0**	**3958.7**	**64537.**	**2559.0**
Stddev	8.6	7.8	38.	17.0
%RSD	.18746	.19608	.05900	.66610
#1	4584.9	3953.2	64564.	2571.1
#2	4597.1	3964.2	64510.	2547.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.921%	96.585%	96.405%	91.898%
Range				

Sample Name: 480-181248-A-6-A Acquired: 2/19/2021 21:35:47 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00073**	**-.00737**	**.00511**	**.00493**	**.00078**
Stddev	.00051	.01904	.00162	.00007	.00002
%RSD	69.378	258.39	31.606	1.4232	1.9713
#1	.00109	.00609	.00397	.00488	.00077
#2	.00037	-.02083	.00625	.00498	.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.27757**	**-.00011**	**.0591**	**-.00010**
Stddev	.00002	.00537	.00007	.0071	.00001
%RSD	29.068	1.9339	60.881	12.02	14.329
#1	-.00007	.27377	-.00016	.0641	-.00011
#2	-.00004	.28136	-.00006	.0541	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00089**	**-.00017**	**.02270**	**.12579**	**-.00139**
Stddev	.00001	.00032	.00180	.02679	.00157
%RSD	.94408	194.40	7.9320	21.296	113.17
#1	.00089	.00006	.02397	.14473	-.00249
#2	.00088	-.00039	.02142	.10685	-.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181248-A-6-A Acquired: 2/19/2021 21:35:47 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10826**	**.00132**	**-.00091**	**6.5048**	**.00120**
Stddev	.00278	.00003	.00009	.0301	.00016
%RSD	2.5679	2.2339	10.405	.46241	13.683
#1	.11023	.00130	-.00097	6.4835	.00131
#2	.10630	.00134	-.00084	6.5261	.00108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0280**	**-.00063**	**88.72**	**.00370**	**.00829**
Stddev	.0012	.00050	.07	.00028	.00161
%RSD	4.267	78.391	.0796	7.4499	19.421
#1	.0271	-.00028	88.77	.00390	.00715
#2	.0288	-.00099	88.67	.00351	.00943
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00156**	**.00051**	**.00137**	**-.0342**	**.00093**
Stddev	.02227	.00000	.00008	.0092	.00030
%RSD	1423.5	.30832	5.9752	26.84	31.798
#1	-.01418	.00051	.00143	-.0407	.00072
#2	.01731	.00051	.00131	-.0277	.00114
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181248-A-6-A Acquired: 2/19/2021 21:35:47 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00327**	**-.00033**	**.01161**	**.0029**
Stddev	.00028	.00045	.00054	.0005
%RSD	8.5661	137.42	4.6420	17.98
#1	-.00347	-.00001	.01200	.0032
#2	-.00307	-.00064	.01123	.0025
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4626.3**	**3987.2**	**65130.**	**2541.0**
Stddev	30.6	31.0	36.	3.9
%RSD	.66078	.77780	.05584	.15424
#1	4604.7	3965.3	65156.	2538.2
#2	4647.9	4009.1	65104.	2543.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.674%	97.281%	97.291%	91.251%
Range				

Sample Name: 480-181248-A-7-A Acquired: 2/19/2021 21:39:34 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.01777**	**.00584**	**.00554**	**.00083**
Stddev	.00037	.00259	.00119	.00022	.00001
%RSD	277.79	14.597	20.349	4.0030	.83510
#1	.00013	.01594	.00668	.00570	.00083
#2	-.00039	.01961	.00500	.00539	.00082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.24130**	**.00001**	**-.0121**	**-.00010**
Stddev	.00001	.00234	.00007	.0292	.00007
%RSD	15.141	.96989	501.92	240.8	72.668
#1	-.00008	.24296	.00006	.0085	-.00015
#2	-.00006	.23965	-.00003	-.0328	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00095**	**.00015**	**.01615**	**.15608**	**.00126**
Stddev	.00043	.00007	.00132	.00586	.00086
%RSD	45.151	50.141	8.1983	3.7567	68.603
#1	.00065	.00010	.01522	.16022	.00065
#2	.00126	.00020	.01709	.15193	.00187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181248-A-7-A Acquired: 2/19/2021 21:39:34 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11235**	**.00109**	**-.00089**	**6.6655**	**.00124**
Stddev	.00035	.00003	.00015	.0283	.00020
%RSD	.31194	2.6726	17.077	.42479	16.103
#1	.11260	.00112	-.00100	6.6856	.00138
#2	.11211	.00107	-.00079	6.6455	.00110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0323**	**.00014**	F **95.25**	**.00369**	**.00720**
Stddev	.0008	.00008	.33	.00003	.00044
%RSD	2.392	54.845	.3491	.77798	6.1117
#1	.0318	.00009	95.48	.00367	.00751
#2	.0329	.00020	95.01	.00371	.00689
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.00		
Low Limit			-.2000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00722**	**.00136**	**.00142**	**-.0257**	**.00069**
Stddev	.00871	.00058	.00014	.0083	.00022
%RSD	120.67	42.698	10.125	32.43	31.714
#1	.01337	.00177	.00152	-.0198	.00053
#2	.00106	.00095	.00132	-.0315	.00084
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181248-A-7-A Acquired: 2/19/2021 21:39:34 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00392**	**-.00031**	**.00969**	**-.0015**
Stddev	.00063	.00015	.00019	.0017
%RSD	15.961	47.111	1.9741	116.5
#1	-.00348	-.00042	.00955	-.0003
#2	-.00437	-.00021	.00982	-.0027
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4588.9**	**3971.9**	**64844.**	**2567.5**
Stddev	19.7	16.6	10.	.5
%RSD	.42915	.41881	.01517	.01941
#1	4602.8	3983.7	64837.	2567.1
#2	4575.0	3960.1	64851.	2567.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.876%	96.907%	96.864%	92.202%
Range				

Sample Name: 480-181248-A-8-A Acquired: 2/19/2021 21:43:22 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.03137**	**.00639**	**.00497**	**.00072**
Stddev	.00075	.01180	.00012	.00007	.00001
%RSD	355.10	37.625	1.9561	1.4435	1.2076
#1	-.00032	.02303	.00630	.00502	.00073
#2	.00074	.03972	.00647	.00492	.00071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.27297**	**-.00009**	**.0280**	**-.00020**
Stddev	.00000	.00349	.00006	.0269	.00002
%RSD	1.5048	1.2784	62.314	95.79	9.6988
#1	-.00013	.27544	-.00013	.0090	-.00018
#2	-.00013	.27050	-.00005	.0470	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00087**	**.00026**	**.01246**	**.13889**	**.00090**
Stddev	.00002	.00036	.00316	.01825	.00036
%RSD	2.2734	135.07	25.372	13.139	39.808
#1	.00088	.00051	.01470	.15179	.00115
#2	.00086	.00001	.01023	.12598	.00065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181248-A-8-A Acquired: 2/19/2021 21:43:22 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10560**	**.00114**	**-.00088**	**6.3174**	**.00146**
Stddev	.00371	.00007	.00011	.0572	.00002
%RSD	3.5148	5.7203	12.393	.90539	1.3253
#1	.10822	.00119	-.00095	6.3579	.00147
#2	.10297	.00110	-.00080	6.2770	.00144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0267**	**-.00061**	**87.73**	**.00309**	**.00794**
Stddev	.0003	.00004	2.29	.00101	.00085
%RSD	1.192	6.8223	2.615	32.703	10.694
#1	.0270	-.00058	86.11	.00237	.00854
#2	.0265	-.00064	89.35	.00380	.00734
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00492**	**.00106**	**.00121**	**-.0027**	**.00020**
Stddev	.04634	.00033	.00006	.0107	.00006
%RSD	941.92	31.460	4.6117	391.3	27.944
#1	-.02785	.00083	.00125	-.0103	.00024
#2	.03769	.00130	.00117	.0048	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181248-A-8-A Acquired: 2/19/2021 21:43:22 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00336**	**-.00026**	**.00695**	**.0079**
Stddev	.00075	.00038	.00000	.0015
%RSD	22.410	145.06	.01246	19.29
#1	-.00283	.00001	.00695	.0089
#2	-.00390	-.00053	.00695	.0068
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4607.0**	**3981.5**	**65822.**	**2604.1**
Stddev	12.9	12.1	136.	39.3
%RSD	.27960	.30450	.20688	1.5100
#1	4616.1	3990.1	65726.	2576.3
#2	4597.9	3972.9	65918.	2631.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.262%	97.142%	98.325%	93.515%
Range				

Sample Name: 480-181248-A-9-A Acquired: 2/19/2021 21:47:09 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00044**	**-.01622**	**.00552**	**.00524**	**.00068**
Stddev	.00001	.00738	.00221	.00018	.00002
%RSD	2.3729	45.529	39.990	3.3817	2.4179
#1	.00043	-.02144	.00708	.00512	.00070
#2	.00045	-.01100	.00396	.00537	.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.60707**	**-.00014**	**.0576**	**-.00014**
Stddev	.00001	.00420	.00013	.0182	.00022
%RSD	12.366	.69172	89.394	31.66	158.52
#1	-.00009	.60410	-.00005	.0447	-.00030
#2	-.00008	.61004	-.00024	.0704	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00109**	**-.00027**	**.01122**	**.18282**	**-.00089**
Stddev	.00000	.00033	.00146	.04988	.00269
%RSD	.14704	122.47	13.003	27.281	302.59
#1	.00109	-.00004	.01019	.21809	-.00279
#2	.00109	-.00050	.01225	.14755	.00101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181248-A-9-A Acquired: 2/19/2021 21:47:09 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10981**	**.00120**	**-.00098**	**6.5345**	**.00156**
Stddev	.00460	.00001	.00004	.0080	.00008
%RSD	4.1922	1.1804	3.8409	.12282	5.4208
#1	.11307	.00119	-.00095	6.5402	.00162
#2	.10656	.00121	-.00100	6.5289	.00150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0290**	**-.00025**	F **93.44**	**.00398**	**.00827**
Stddev	.0015	.00000	.14	.00073	.00207
%RSD	5.038	1.2818	.1500	18.302	25.009
#1	.0279	-.00024	93.54	.00449	.00973
#2	.0300	-.00025	93.34	.00346	.00681
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.00		
Low Limit			-.2000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02124**	**.00088**	**.00137**	**-.0139**	**.00056**
Stddev	.01292	.00004	.00002	.0077	.00013
%RSD	60.850	4.2879	1.4867	55.55	22.762
#1	.01210	.00090	.00135	-.0194	.00047
#2	.03038	.00085	.00138	-.0085	.00065
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-181248-A-9-A Acquired: 2/19/2021 21:47:09 Type: Unk
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00374**	**-.00023**	**.01348**	**-.0006**
Stddev	.00019	.00046	.00016	.0002
%RSD	5.1702	200.09	1.2198	33.08
#1	-.00388	.00010	.01360	-.0005
#2	-.00360	-.00056	.01336	-.0008
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4582.9**	**3948.7**	**64554.**	**2538.1**
Stddev	4.5	3.2	949.	5.1
%RSD	.09748	.08195	1.4698	.20104
#1	4579.7	3946.4	63883.	2534.5
#2	4586.1	3950.9	65225.	2541.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.748%	96.340%	96.431%	91.148%
Range				

Sample Name: CCV-6339745 Acquired: 2/19/2021 21:50:57 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0002**	**49.089**	**1.0077**	**1.0442**	**1.0268**	**1.0131**	**50.063**	**1.0261**
Stddev	.0016	.270	.0025	.0010	.0034	.0032	.138	.0007
%RSD	.16420	.55024	.24439	.09832	.33486	.31166	.27501	.06727
#1	1.0014	49.280	1.0059	1.0434	1.0293	1.0153	50.161	1.0256
#2	.99905	48.898	1.0094	1.0449	1.0244	1.0108	49.966	1.0266
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.018**	**1.0232**	**.99481**	**1.0197**	**48.226**	**51.221**	**.97138**	**50.008**
Stddev	.032	.0015	.00057	.0010	.188	.205	.00555	.020
%RSD	3.174	.14482	.05764	.10235	.39058	.39963	.57141	.04046
#1	1.041	1.0221	.99521	1.0204	48.359	51.366	.97531	50.023
#2	.9949	1.0242	.99440	1.0190	48.092	51.077	.96746	49.994
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.98918**	**1.0319**	**50.469**	**1.0147**	**26.25**	**1.0241**	**27.16**	**1.0004**
Stddev	.00029	.0018	.180	.0011	.06	.0031	.07	.0011
%RSD	.02921	.17088	.35573	.10656	.2273	.30600	.2545	.11165
#1	.98898	1.0307	50.596	1.0139	26.21	1.0264	27.11	1.0012
#2	.98939	1.0332	50.342	1.0155	26.30	1.0219	27.20	.99963
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6339745 Acquired: 2/19/2021 21:50:57 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0142	9.8096	.99151	1.0108	.9432	1.0099	1.0325	1.0074
Stddev	.0028	.0295	.00090	.0047	.0169	.0017	.0003	.0005
%RSD	.27408	.30095	.09090	.46087	1.790	.17228	.02586	.05082
#1	1.0161	9.8305	.99214	1.0141	.9312	1.0111	1.0323	1.0070
#2	1.0122	9.7887	.99087	1.0075	.9551	1.0086	1.0327	1.0077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	1.0246	.8746
Stddev	.0023	.0015
%RSD	.22437	.1750
#1	1.0229	.8757
#2	1.0262	.8735
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4103.8	4006.5	63645.	2688.4
Stddev	7.4	11.6	178.	7.1
%RSD	.18063	.28902	.28036	.26348
#1	4098.6	3998.3	63771.	2693.4
#2	4109.0	4014.7	63518.	2683.4

Sample Name: CCB-6338400 Acquired: 2/19/2021 21:54:33 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**-.01143**	**-.00146**	**-.00047**	**-.00007**	**-.00000**	**-.00791**	**-.00012**
Stddev	.00039	.02563	.00252	.00040	.00001	.00003	.00059	.00005
%RSD	226.82	224.28	172.67	84.382	18.575	1161.7	7.4741	40.918
#1	-.00010	-.02955	.00032	-.00019	-.00006	.00002	-.00749	-.00008
#2	.00045	.00669	-.00324	-.00075	-.00008	-.00002	-.00832	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0126**	**-.00015**	**.00030**	**-.00048**	**-.00129**	**.02550**	**-.00088**	**-.00246**
Stddev	.0559	.00005	.00007	.00033	.00152	.06552	.00280	.00059
%RSD	443.3	31.511	23.112	69.360	117.63	256.98	316.74	24.173
#1	.0269	-.00012	.00034	-.00024	-.00022	-.02083	-.00287	-.00287
#2	-.0522	-.00019	.00025	-.00071	-.00236	.07183	.00110	-.00204
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00095**	**-.04340**	**-.00002**	**-.0021**	**-.00052**	F **.8909**	**-.00000**
Stddev	.00000	.00047	.00404	.00003	.0010	.00036	.0706	.00072
%RSD	3.7705	48.979	9.3068	160.80	45.79	69.707	7.926	18274.
#1	-.00012	.00128	-.04625	-.00004	-.0028	-.00026	.8409	.00051
#2	-.00011	.00062	-.04054	.00000	-.0014	-.00078	.9408	-.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Fail	Chk Pass
High Limit							.2000	
Low Limit							-.2000	

Sample Name: CCB-6338400 Acquired: 2/19/2021 21:54:33 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00098**	**-.02504**	**.00023**	**-.00016**	**.0068**	**-.00007**	**.00007**	**-.00017**
Stddev	.00284	.00909	.00045	.00016	.0109	.00004	.00037	.00021
%RSD	289.12	36.304	190.97	99.768	158.7	57.381	500.34	122.65
#1	-.00299	-.03146	-.00008	-.00027	.0145	-.00009	.00033	-.00002
#2	.00103	-.01861	.00055	-.00005	-.0008	-.00004	-.00019	-.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**.00012**	**-.0026**
Stddev	.00015	.0006
%RSD	131.09	22.01
#1	.00001	-.0031
#2	.00022	-.0022
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4677.6**	**4132.3**	**67945.**	**2713.6**
Stddev	4.2	11.5	295.	5.0
%RSD	.09072	.27750	.43365	.18495
#1	4680.6	4140.4	68154.	2717.1
#2	4674.6	4124.2	67737.	2710.0

Sample Name: CCVL-6339744 Acquired: 2/19/2021 21:58:22 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00569**	**.16781**	**.01517**	**.01808**	**.00195**	**.00183**	**.49072**	**.00184**
Stddev	.00079	.03143	.00079	.00042	.00003	.00004	.00089	.00005
%RSD	13.937	18.729	5.2107	2.3037	1.3425	2.1221	.18133	2.5450
#1	.00625	.19004	.01461	.01838	.00197	.00186	.49009	.00181
#2	.00513	.14559	.01573	.01779	.00193	.00180	.49135	.00187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0021**	**.00354**	**.00417**	**.00921**	**.03921**	**.47274**	**.02686**	**.19689**
Stddev	.0398	.00016	.00021	.00016	.00000	.02554	.00113	.00005
%RSD	1908.	4.5499	5.1438	1.7065	.00368	5.4030	4.2012	.02733
#1	.0260	.00343	.00433	.00910	.03921	.49080	.02766	.19686
#2	-.0302	.00366	.00402	.00932	.03921	.45467	.02606	.19693
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00281**	**.00963**	**.91262**	**.00935**	**-.0402**	**.00976**	F **.7854**	**.01945**
Stddev	.00001	.00001	.00250	.00004	.0004	.00059	.0568	.00277
%RSD	.44461	.06895	.27436	.45760	1.027	6.0261	7.231	14.228
#1	.00280	.00963	.91085	.00932	-.0399	.00935	.7452	.01749
#2	.00282	.00962	.91440	.00938	-.0405	.01018	.8255	.02141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Fail	Chk Pass
Value							.2000	
Range							50.00%	

Sample Name: CCVL-6339744 Acquired: 2/19/2021 21:58:22 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02438**	**.41054**	**.00893**	**.00458**	**-.0014**	**.00451**	**.01989**	**.00451**
Stddev	.00149	.00486	.00129	.00001	.0173	.00017	.00005	.00018
%RSD	6.0992	1.1847	14.444	.12200	1240.	3.7817	.26790	3.8918
#1	.02333	.41398	.00802	.00458	.0108	.00439	.01986	.00463
#2	.02543	.40710	.00984	.00459	-.0136	.00463	.01993	.00438
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**.00907**	**-.0000**
Stddev	.00019	.0019
%RSD	2.0677	12830.
#1	.00894	-.0013
#2	.00920	.0013
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4666.8**	**4121.7**	**67540.**	**2697.6**
Stddev	6.5	6.7	71.	.1
%RSD	.13961	.16246	.10569	.00262
#1	4662.2	4117.0	67490.	2697.7
#2	4671.4	4126.4	67591.	2697.6

Sample Name: CCV-6339745 Acquired: 2/19/2021 22:02:09 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.99118**	**48.716**	**1.0090**	**1.0450**	**1.0158**	**.99965**	**49.590**	**1.0247**
Stddev	.00162	.137	.0064	.0019	.0045	.00517	.305	.0020
%RSD	.16353	.28061	.63254	.18263	.43967	.51743	.61426	.19151
#1	.99233	48.813	1.0135	1.0437	1.0189	1.0033	49.806	1.0233
#2	.99004	48.619	1.0045	1.0464	1.0126	.99599	49.375	1.0261
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9571**	**1.0143**	**.99577**	**1.0166**	**47.429**	**50.766**	**.96196**	**49.825**
Stddev	.0242	.0015	.00077	.0000	.271	.230	.00422	.024
%RSD	2.526	.14756	.07735	.00239	.57159	.45297	.43832	.04891
#1	.9742	1.0132	.99631	1.0166	47.620	50.929	.96494	49.808
#2	.9400	1.0153	.99522	1.0166	47.237	50.604	.95898	49.843
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.98220**	**1.0319**	**49.726**	**1.0104**	**26.45**	**1.0190**	**26.19**	**1.0034**
Stddev	.00045	.0016	.142	.0001	.09	.0008	.09	.0049
%RSD	.04551	.15213	.28585	.00477	.3303	.08037	.3493	.48477
#1	.98251	1.0308	49.827	1.0104	26.39	1.0196	26.13	1.0068
#2	.98188	1.0330	49.626	1.0103	26.51	1.0184	26.26	.99996
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6339745 Acquired: 2/19/2021 22:02:09 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0203	9.5989	.99492	1.0028	.9772	1.0091	1.0294	1.0072
Stddev	.0100	.0046	.00141	.0024	.0041	.0007	.0015	.0005
%RSD	.97723	.04843	.14216	.23484	.4243	.06826	.14300	.04923
#1	1.0274	9.5956	.99592	1.0045	.9801	1.0095	1.0305	1.0069
#2	1.0133	9.6022	.99392	1.0011	.9742	1.0086	1.0284	1.0076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	1.0156	.9173
Stddev	.0020	.0056
%RSD	.19753	.6078
#1	1.0142	.9134
#2	1.0171	.9212
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4156.8	4041.7	64689.	2750.1
Stddev	7.8	7.9	49.	30.0
%RSD	.18751	.19523	.07568	1.0901
#1	4151.3	4036.2	64654.	2728.9
#2	4162.3	4047.3	64724.	2771.3

Sample Name: CCB-6338400 Acquired: 2/19/2021 22:05:44 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00068**	**-.04155**	**.00167**	**-.00025**	**-.00006**	**-.00006**	**-.00504**	**-.00001**
Stddev	.00058	.01853	.00106	.00020	.00001	.00002	.00029	.00008
%RSD	86.059	44.612	63.389	77.398	9.4836	27.777	5.8260	773.40
#1	-.00027	-.05465	.00242	-.00039	-.00006	-.00005	-.00524	.00005
#2	-.00109	-.02844	.00092	-.00011	-.00006	-.00007	-.00483	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0057**	**.00003**	**.00001**	**-.00023**	**-.00686**	**-.00778**	**.00008**	**.00030**
Stddev	.0110	.00009	.00032	.00074	.00195	.01955	.00055	.00049
%RSD	192.8	289.36	3163.6	325.07	28.418	251.21	695.54	162.66
#1	.0021	-.00003	-.00021	.00030	-.00548	.00604	-.00031	-.00005
#2	-.0135	.00010	.00023	-.00075	-.00824	-.02161	.00047	.00065
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.00100**	**-.05097**	**.00005**	**-.0032**	**.00004**	F **.3031**	**.00056**
Stddev	.00004	.00041	.00041	.00016	.0004	.00046	.0320	.00040
%RSD	33.594	41.088	.79789	320.36	13.35	1033.3	10.57	71.406
#1	-.00010	.00129	-.05126	.00016	-.0035	-.00028	.2804	.00084
#2	-.00016	.00071	-.05068	-.00006	-.0029	.00037	.3257	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Fail	Chk Pass
High Limit							.2000	
Low Limit							-.2000	

Sample Name: CCB-6338400 Acquired: 2/19/2021 22:05:44 Type: QC
Method: ICAP1 New Stds (v713) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00096	-.01154	.00005	-.00022	-.0074	-.00010	-.00055	-.00031
Stddev	.00127	.00264	.00033	.00003	.0118	.00002	.00002	.00007
%RSD	131.85	22.892	683.40	13.391	159.5	21.012	4.5420	20.890
#1	.00007	-.00967	-.00019	-.00020	.0009	-.00011	-.00057	-.00027
#2	.00186	-.01341	.00029	-.00024	-.0157	-.00008	-.00053	-.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	-.00028	-.0019
Stddev	.00014	.0012
%RSD	49.645	62.14
#1	-.00038	-.0027
#2	-.00018	-.0011
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4723.6	4173.5	68796.	2794.7
Stddev	8.3	1.0	27.	23.3
%RSD	.17670	.02362	.03894	.83265
#1	4717.7	4172.8	68815.	2811.2
#2	4729.5	4174.2	68777.	2778.3

Report Generated By Teledyne Leeman QuickTrace

Analyst: BufHG5

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\L20210222B.wszf

Creation Date: 2/22/2021 3:42:59 PM

Comment:

Results

Sample Name				Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
Calibration Blank				STD	02/22/21 03:50:33 pm	0.00	49	74.11	-14.16		1.0000	N/A
Replicates	72.9	64.0	62.4	-5.0								
Standard #1 (0.1 ug/L)				STD	02/22/21 03:51:52 pm	0.10	1590	1.72	-7.07		1.0000	N/A
Replicates	1618.1	1604.1	1583.7	1555.1								
Standard #2 (0.5 ug/L)				STD	02/22/21 03:53:10 pm	0.50	7820	1.25	25.70		1.0000	N/A
Replicates	7856.6	7901.2	7845.5	7678.5								
Standard #3 (2.0 ug/L)				STD	02/22/21 03:54:28 pm	2.00	31027	1.30	137.73		1.0000	N/A
Replicates	31177.1	31387.5	31091.5	30453.2								
Standard #4 (10. ug/L)				STD	02/22/21 03:55:47 pm	10.00	148637	1.20	307.30		1.0000	N/A
Replicates	149106.7	150196.9	149175.9	146067.9								
Standard #5 (20. ug/L)				STD	02/22/21 03:57:07 pm	20.00	282667	1.08	-382.50		1.0000	N/A
Replicates	283441.6	285305.7	283644.7	278276.0								

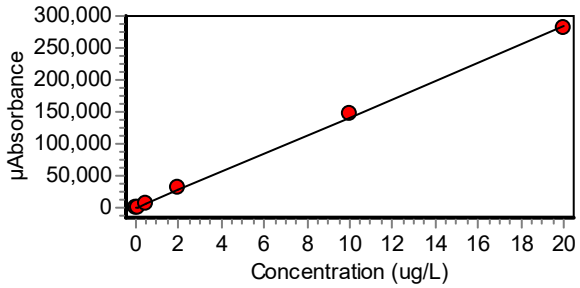
Calibration

Equation: Abs = 14396.048x + 252.452

R2: 0.99918

SEE: 3674.6460

Flags:



ICV				ICV	02/22/21 03:58:29 pm	3.22	46587	1.36		Q	1.0000	107.29
Replicates	46797.7	47123.6	46749.2	45677.9								
ICB				ICB	02/22/21 03:59:46 pm	-0.02	6	10.05			1.0000	N/A
Replicates	28.9	18.1	5.1	-28.2								
ICVL				CRDL	02/22/21 04:01:06 pm	0.20	3155	1.50			1.0000	100.82
Replicates	3165.1	3199.1	3161.8	3095.1								
CCV				CCV	02/22/21 04:02:26 pm	2.11	30645	1.35			1.0000	105.56
Replicates	30794.3	31004.7	30728.4	30053.4								
CCB				CCB	02/22/21 04:03:43 pm	-0.02	35	4.64			1.0000	N/A
Replicates	33.0	49.7	30.4	27.0								
MB 480-570214/1-A				UNK	02/22/21 04:05:01 pm	-0.01	88	11.12			1.0000	N/A
Replicates	82.1	113.2	88.5	69.8								
LCS 480-570214/2-A				UNK	02/22/21 04:06:18 pm	4.12	59576	1.17			1.0000	N/A
Replicates	59721.3	60178.8	59830.2	58573.8								

Sample Name				Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
480-181278-C-1-D				UNK	02/22/21 04:07:35 pm	-0.01	47	14.38			1.0000	N/A
Replicates	49.4	77.9	7.2	55.2								
480-181278-C-2-D				UNK	02/22/21 04:08:53 pm	-0.01	70	5.14			1.0000	N/A
Replicates	77.2	64.4	79.1	60.1								
480-181278-C-3-D				UNK	02/22/21 04:10:11 pm	-0.01	41	6.91			1.0000	N/A
Replicates	28.4	36.2	38.2	62.2								
480-181278-C-4-F				UNK	02/22/21 04:11:29 pm	-0.01	68	8.19			1.0000	N/A
Replicates	80.9	70.8	46.5	74.8								
480-181278-C-5-D				UNK	02/22/21 04:12:47 pm	-0.01	47	2.04			1.0000	N/A
Replicates	52.9	46.7	47.4	42.7								
480-181244-C-1-D				UNK	02/22/21 04:14:05 pm	0.05	945	2.69			1.0000	N/A
Replicates	923.7	935.5	963.8	957.1								
480-181244-D-2-A				UNK	02/22/21 04:15:24 pm	-0.01	178	19.70			1.0000	N/A
Replicates	162.5	196.2	170.9	182.6								
480-181249-C-5-B				UNK	02/22/21 04:16:42 pm	-0.01	39	8.48			1.0000	N/A
Replicates	40.8	56.4	13.4	44.1								
CCV				CCV	02/22/21 04:18:02 pm	2.12	30728	1.46			1.0000	105.85
Replicates	30919.4	31093.3	30817.9	30080.6								
CCB				CCB	02/22/21 04:19:20 pm	-0.01	60	10.13			1.0000	N/A
Replicates	33.6	75.1	74.4	57.4								
480-181275-F-1-C				UNK	02/22/21 04:20:38 pm	-0.01	101	9.23			1.0000	N/A
Replicates	121.0	90.4	100.1	92.4								
480-181276-C-1-B				UNK	02/22/21 04:21:57 pm	-0.01	88	13.10			1.0000	N/A
Replicates	76.5	100.8	64.8	111.5								
480-181278-C-6-C				UNK	02/22/21 04:23:15 pm	-0.01	65	5.96			1.0000	N/A
Replicates	65.9	57.0	56.3	80.3								
480-181278-C-7-C				UNK	02/22/21 04:24:32 pm	-0.01	65	8.14			1.0000	N/A
Replicates	58.4	55.9	87.5	56.9								
480-181278-C-8-C				UNK	02/22/21 04:25:50 pm	-0.01	67	11.41			1.0000	N/A
Replicates	87.7	62.1	79.8	40.1								
480-181278-C-8-Csd@5				UNK	02/22/21 04:27:07 pm	-0.02	30	9.73			1.0000	N/A
Replicates	5.7	48.9	47.6	17.9								
480-181278-C-8-D MS				UNK	02/22/21 04:28:25 pm	4.22	60940	1.24			1.0000	N/A
Replicates	61136.3	61577.2	61195.5	59851.5								
480-181278-C-8-E MSD				UNK	02/22/21 04:29:43 pm	4.20	60667	1.32			1.0000	N/A
Replicates	60879.5	61379.3	60886.3	59521.0								
CCV				CCV	02/22/21 04:31:03 pm	2.09	30409	1.43			1.0000	104.74
Replicates	30565.1	30821.1	30443.5	29807.1								

Sample Name				Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
CCB				CCB	02/22/21 04:32:20 pm	-0.02	20	10.96			1.0000	N/A
	Replicates	43.9	26.7	26.0	-16.0							
CCVL				CRDL	02/22/21 04:33:40 pm	0.20	3165	1.58			1.0000	101.14
	Replicates	3203.2	3189.1	3166.7	3099.1							

Report Generated By Teledyne Leeman QuickTrace

Analyst: BufHG5

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\L20210224A.wszf

Creation Date: 2/24/2021 2:11:52 PM

Comment:

Results

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
Single: icv					UNK	02/24/21 02:27:39 pm	0.00	43853	1.32			1.0000	N/A
	Replicates	44056.5	44391.6	43929.2	43036.2								
Calibration Blank					STD	02/24/21 02:29:08 pm	0.00	61	38.03	-11.80		1.0000	N/A
	Replicates	70.2	26.9	66.6	78.9								
Standard #1 (0.1 ug/L)					STD	02/24/21 02:30:27 pm	0.10	1501	1.11	-6.78		1.0000	N/A
	Replicates	1502.3	1516.3	1508.3	1477.6								
Standard #2 (0.5 ug/L)					STD	02/24/21 02:31:45 pm	0.50	7563	1.09	35.15		1.0000	N/A
	Replicates	7585.7	7626.2	7598.5	7442.2								
Standard #3 (2.0 ug/L)					STD	02/24/21 02:33:03 pm	2.00	29340	1.14	122.70		1.0000	N/A
	Replicates	29388.4	29648.8	29455.1	28865.8								
Standard #4 (10. ug/L)					STD	02/24/21 02:34:22 pm	10.00	144118	1.00	490.30		1.0000	N/A
	Replicates	144563.5	145371.8	144501.1	142034.8								
Standard #5 (20. ug/L)					STD	02/24/21 02:35:41 pm	20.00	267217	0.93	-535.49		1.0000	N/A
	Replicates	267842.8	269446.7	267928.7	263649.1								

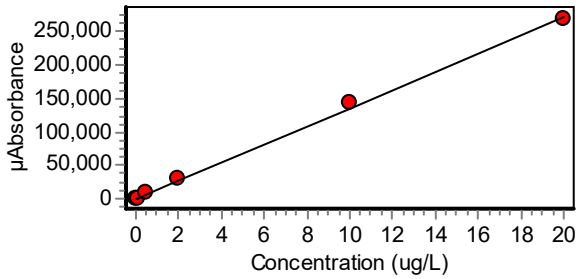
Calibration

Equation: Abs = 13716.980x + 222.479

R2: 0.99828

SEE: 5056.8150

Flags:



ICV					ICV	02/24/21 02:37:03 pm	3.15	43471	1.25		Q	1.0000	105.10
	Replicates	43592.0	43984.6	43595.2	42710.2								
ICB					ICB	02/24/21 02:38:21 pm	-0.01	23	13.91			1.0000	N/A
	Replicates	44.8	-16.2	21.4	40.4								
ICVL					CRDL	02/24/21 02:39:41 pm	0.20	2959	1.64			1.0000	99.75
	Replicates	2969.5	2986.4	2987.4	2893.1								
CCV					CCV	02/24/21 02:41:00 pm	2.10	29038	1.13			1.0000	105.04
	Replicates	29102.3	29323.8	29157.2	28569.8								
CCB					CCB	02/24/21 02:42:18 pm	-0.01	32	13.84			1.0000	N/A
	Replicates	61.5	21.6	43.9	0.9								
MB 480-570452/1-A					UNK	02/24/21 02:43:35 pm	-0.01	38	22.87			1.0000	N/A
	Replicates	26.0	100.1	8.8	15.5								

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual Flags	DF	% Recovery
LCSSRM 480-570452/2-A@10	UNK	02/24/21 02:44:53 pm	11.10	152473	1.30		1.0000	N/A
Replicates 153180.5	154207.8	152876.8	149626.5					
480-181351-C-11-D	UNK	02/24/21 02:46:10 pm	0.09	1466	1.99		1.0000	N/A
Replicates 1501.1	1458.5	1460.9	1443.2					
480-181351-C-11-Dsd@5	UNK	02/24/21 02:47:28 pm	0.01	358	5.68		1.0000	N/A
Replicates 363.4	365.1	348.4	355.4					
480-181351-C-11-E MS	UNK	02/24/21 02:48:46 pm	4.54	62555	0.92		1.0000	N/A
Replicates 62579.3	63098.4	62781.1	61761.4					
480-181351-C-11-F MSD	UNK	02/24/21 02:50:04 pm	4.54	62525	1.09		1.0000	N/A
Replicates 62693.7	63183.9	62652.9	61568.9					
480-181351-C-12-B	UNK	02/24/21 02:51:22 pm	0.09	1393	1.71		1.0000	N/A
Replicates 1411.1	1394.5	1402.8	1365.1					
480-181351-C-13-B	UNK	02/24/21 02:52:40 pm	0.10	1564	1.36		1.0000	N/A
Replicates 1581.9	1538.5	1569.1	1565.5					
480-181351-C-14-B	UNK	02/24/21 02:53:59 pm	0.13	1948	1.74		1.0000	N/A
Replicates 1979.2	1957.8	1948.5	1907.5					
480-181249-C-1-B	UNK	02/24/21 02:55:17 pm	0.00	218	474.86		1.0000	N/A
Replicates 237.8	234.9	192.9	205.9					
CCV	CCV	02/24/21 02:56:37 pm	2.09	28958	1.20		1.0000	104.74
Replicates 29044.2	29249.6	29078.6	28459.9					
CCB	CCB	02/24/21 02:57:54 pm	-0.02	13	9.56		1.0000	N/A
Replicates 24.7	-4.0	34.7	-4.6					
480-181249-B-2-B	UNK	02/24/21 02:59:13 pm	0.09	1480	2.03		1.0000	N/A
Replicates 1496.0	1503.7	1474.3	1446.7					
480-181249-C-3-D	UNK	02/24/21 03:00:32 pm	0.02	545	6.27		1.0000	N/A
Replicates 558.3	566.5	532.5	524.2					
480-181249-C-3-E MS	UNK	02/24/21 03:01:49 pm	4.40	60511	1.20		1.0000	N/A
Replicates 60668.1	61158.8	60739.1	59479.1					
480-181249-C-3-F MSD	UNK	02/24/21 03:03:07 pm	4.53	62412	1.03		1.0000	N/A
Replicates 62278.5	63026.2	62776.6	61567.9					
480-181249-C-4-B	UNK	02/24/21 03:04:24 pm	0.00	240	98.45		1.0000	N/A
Replicates 242.6	253.9	249.9	214.9					
480-181249-C-6-B	UNK	02/24/21 03:05:42 pm	-0.01	102	16.09		1.0000	N/A
Replicates 103.1	115.0	116.3	74.6					
480-181292-C-1-E	UNK	02/24/21 03:07:00 pm	0.20	2984	2.12		1.0000	N/A
Replicates 3005.0	3038.7	2990.3	2901.7					
480-181318-A-1-G	UNK	02/24/21 03:08:18 pm	1.10	15318	1.28		1.0000	N/A
Replicates 15372.8	15497.1	15359.1	15043.8					

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
480-181318-A-2-C					UNK	02/24/21 03:09:36 pm	0.79	11067	1.32			1.0000	N/A
	Replicates	11103.7	11194.2	11107.6	10862.2								
480-181318-A-3-C					UNK	02/24/21 03:10:54 pm	1.87	25919	1.56			1.0000	N/A
	Replicates	26078.2	26278.8	25969.8	25349.2								
CCV					CCV	02/24/21 03:12:14 pm	2.07	28658	1.23			1.0000	103.65
	Replicates	28733.9	28975.9	28761.9	28161.3								
CCB					CCB	02/24/21 03:13:31 pm	-0.02	10	8.99			1.0000	N/A
	Replicates	18.6	-19.0	18.6	20.3								
480-181318-A-4-B					UNK	02/24/21 03:14:50 pm	0.79	11078	1.47			1.0000	N/A
	Replicates	11135.7	11220.1	11108.1	10849.8								
480-181318-A-5-B					UNK	02/24/21 03:16:09 pm	1.90	26273	1.10			1.0000	N/A
	Replicates	26371.2	26539.6	26312.6	25867.3								
480-181318-A-6-C					UNK	02/24/21 03:17:27 pm	0.44	6193	1.19			1.0000	N/A
	Replicates	6213.9	6272.9	6183.5	6101.9								
480-181318-A-7-C					UNK	02/24/21 03:18:46 pm	0.79	11127	1.45			1.0000	N/A
	Replicates	11185.9	11272.5	11146.8	10903.1								
480-181318-A-8-B					UNK	02/24/21 03:20:04 pm	0.55	7827	1.25			1.0000	N/A
	Replicates	7830.2	7916.7	7866.1	7695.1								
480-181294-A-2-A					UNK	02/24/21 03:21:21 pm	-0.01	34	5.32			1.0000	N/A
	Replicates	38.0	30.3	21.7	45.0								
CCV					CCV	02/24/21 03:22:41 pm	2.06	28532	1.17			1.0000	103.19
	Replicates	28616.0	28834.3	28619.7	28059.3								
CCB					CCB	02/24/21 03:23:58 pm	-0.01	20	4.73			1.0000	N/A
	Replicates	30.8	18.8	7.8	22.8								
CCVL					CRDL	02/24/21 03:25:18 pm	0.19	2888	1.23			1.0000	97.16
	Replicates	2922.6	2901.0	2882.7	2845.4								

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Batch Number: 570015 Batch Start Date: 02/19/21 09:05 Batch Analyst: Merkle, Adam D

Batch Method: 3005A Batch End Date: 02/19/21 12:35

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MED_01_Si 00152	MED_01_W1 00066	MED_02_W2 00064	MED_03_Ag 00166
MB 480-570015/1		3005A, 6010C		50 mL	50 mL				
LCS 480-570015/2		3005A, 6010C		50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL
480-181249-C-5	EB-20210210	3005A, 6010C	T	50 mL	50 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	MED_04_Sn 00153	MED_05_S 00112				
MB 480-570015/1		3005A, 6010C							
LCS 480-570015/2		3005A, 6010C		0.25 mL	0.25 mL				
480-181249-C-5	EB-20210210	3005A, 6010C	T						

Batch Notes	
Temperature - Corrected - End	92.1 Degrees C
Temperature - Corrected - Start	93.1 Degrees C
Digestion End Time	02/19/2021 12:35
Digestion Start Time	02/19/2021 09:05
Digestion Unit ID	A
Hydrochloric Acid ID	6324909
Nitric Acid ID	6339537
pH Indicator ID	HC911298
Pipette/Syringe/Dispenser ID	MDL-3
Analyst ID - Spike Analyst	KP
Sufficient Volume for Batch QC	YES
Thermometer Location ID	A1
Thermometer ID	200152384
Digestion Tube/Cup ID	2010025
Temperature - Uncorrected - End	91.4 Degrees C
Temperature - Uncorrected - Start	92.4 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Batch Number: 570033 Batch Start Date: 02/18/21 16:33 Batch Analyst: Merkle, Adam D

Batch Method: 3050B Batch End Date: 02/18/21 21:56

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MED_01_Si 00152	MED_01_W1 00066	MED_02_W2 00064	MED_03_Ag 00166
MB 480-570033/1		3050B, 6010C		0.5182 g	50 mL				
LCSSRM 480-570033/2		3050B, 6010C		0.4934 g	50 mL				
480-181249-C-1	SB-12C (32-33)	3050B, 6010C	T	0.4926 g	50 mL				
480-181249-B-2	SB-12C (55-56)	3050B, 6010C	T	0.4917 g	50 mL				
480-181249-C-3	SB-12A (4-6)	3050B, 6010C	T	0.4854 g	50 mL				
480-181249-C-3 MS	SB-12A (4-6)	3050B, 6010C	T	0.4905 g	50 mL	0.5 mL	0.5 mL	0.5 mL	0.5 mL
480-181249-C-3 MSD	SB-12A (4-6)	3050B, 6010C	T	0.4715 g	50 mL	0.5 mL	0.5 mL	0.5 mL	0.5 mL
480-181249-C-4	SB-12A (13-15)	3050B, 6010C	T	0.5238 g	50 mL				
480-181249-C-6	DUP-SB (13-15)	3050B, 6010C	T	0.4993 g	50 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	MED_04_Sn 00153	MED_05_S 00112	MED_SRM_D087 00028			
MB 480-570033/1		3050B, 6010C							
LCSSRM 480-570033/2		3050B, 6010C				0.4934 g			
480-181249-C-1	SB-12C (32-33)	3050B, 6010C	T						
480-181249-B-2	SB-12C (55-56)	3050B, 6010C	T						
480-181249-C-3	SB-12A (4-6)	3050B, 6010C	T						
480-181249-C-3 MS	SB-12A (4-6)	3050B, 6010C	T	0.5 mL	0.5 mL				
480-181249-C-3 MSD	SB-12A (4-6)	3050B, 6010C	T	0.5 mL	0.5 mL				
480-181249-C-4	SB-12A (13-15)	3050B, 6010C	T						
480-181249-C-6	DUP-SB (13-15)	3050B, 6010C	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Batch Number: 570033 Batch Start Date: 02/18/21 16:33 Batch Analyst: Merkle, Adam D

Batch Method: 3050B Batch End Date: 02/18/21 21:56

Batch Notes	
Balance ID	25850472
Batch Comment	Autoblock Digestion
Blank Soil Lot Number	6264202
Temperature - Corrected - End	auto Degrees C
Temperature - Corrected - Start	93.2 Degrees C
Digestion End Time	02/18/2021 21:56
Digestion Start Time	02/18/2021 16:33
Digestion Unit ID	F
Digestion Tube/Cup ID	2010025
Filter ID	90530756
Hydrogen Peroxide ID	5921812
Hydrochloric Acid ID	6306405
Nitric Acid ID	6319560
Pipette/Syringe/Dispenser ID	MDL-4
Analyst ID - Spike Analyst	AM
Sufficient Volume for Batch QC	YES
Thermometer Location ID	F6
Thermometer ID	200152471
Temperature - Uncorrected - End	auto Degrees C
Temperature - Uncorrected - Start	92.5 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Batch Number: 570214 Batch Start Date: 02/22/21 13:02 Batch Analyst: Booth, Bryan M

Batch Method: 7470A Batch End Date: 02/22/21 15:02

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG1_WKG 02479	AnalysisComment		
MB 480-570214/1		7470A, 7470A		30 mL	50 mL		KMnO4x2		
LCS 480-570214/2		7470A, 7470A		30 mL	50 mL	2 mL	KMnO4x2		
480-181249-C-5	EB-20210210	7470A, 7470A	T	30 mL	50 mL				

Batch Notes	
Batch Comment	1 & 2 Prep 1252
Temperature - Corrected - End	93.8 Deg. C
Temperature - Corrected - Start	95.0 Deg. C
Digestion End Time	1502
Digestion Start Time	1302
Digestion Unit ID	HG-A
Sulfuric Acid ID	6318691
Nitric Acid ID	6224424
Hydroxylamine ID	6306546
Potassium Persulfate ID	6206676
Potassium Permanganate ID	6296395
Pipette/Syringe/Dispenser ID	Hg 8
Analyst ID - Spike Analyst	BB
Thermometer ID	170435802
Digestion Tube/Cup ID	2008043
Temperature - Uncorrected - End	92.8 Deg. C
Temperature - Uncorrected - Start	94.0 Deg. C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Batch Number: 570452 Batch Start Date: 02/24/21 13:29 Batch Analyst: Booth, Bryan M

Batch Method: 7471B Batch End Date: 02/24/21 13:59

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MED_SRM_D087 00028	MEH_HG1_WKG 02481		
MB 480-570452/1		7471B, 7471B		0.7685 g	50 mL				
LCSSRM 480-570452/2		7471B, 7471B		0.1848 g	50 mL	0.1848 g			
480-181249-C-1	SB-12C (32-33)	7471B, 7471B	T	0.6348 g	50 mL				
480-181249-B-2	SB-12C (55-56)	7471B, 7471B	T	0.4152 g	50 mL				
480-181249-C-3	SB-12A (4-6)	7471B, 7471B	T	0.6447 g	50 mL				
480-181249-C-3 MS	SB-12A (4-6)	7471B, 7471B	T	0.8189 g	50 mL		2 mL		
480-181249-C-3 MSD	SB-12A (4-6)	7471B, 7471B	T	0.6619 g	50 mL		2 mL		
480-181249-C-4	SB-12A (13-15)	7471B, 7471B	T	0.9116 g	50 mL				
480-181249-C-6	DUP-SB (13-15)	7471B, 7471B	T	0.6344 g	50 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Batch Number: 570452 Batch Start Date: 02/24/21 13:29 Batch Analyst: Booth, Bryan M

Batch Method: 7471B Batch End Date: 02/24/21 13:59

Batch Notes	
Balance ID	Balance-2
Batch Comment	spikes 1 & 2 1255
Blank Matrix ID	4837711
Temperature - Corrected - End	93.9 Degrees C
Temperature - Corrected - Start	94.3 Degrees C
Digestion End Time	02/24/2021 13:59
Digestion Start Time	02/24/2021 13:29
Digestion Unit ID	Hg-B
Hydrochloric Acid ID	6314838
Nitric Acid ID	6224424
Hydroxylamine ID	6306546
Potassium Permanganate ID	6200908
Pipette/Syringe/Dispenser ID	Hg-8
Analyst ID - Spike Analyst	KP
Thermometer ID	170435802
Digestion Tube/Cup ID	2008043
Temperature - Uncorrected - End	92.9 Degrees C
Temperature - Uncorrected - Start	93.3 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-181249-1

SDG No.:

Project: Fort Edward Landfill #558001

Client Sample ID	Lab Sample ID
SB-12C (32-33)	480-181249-1
SB-12C (55-56)	480-181249-2
SB-12A (4-6)	480-181249-3
SB-12A (13-15)	480-181249-4
DUP-SB (13-15)	480-181249-6

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-181249-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-181249-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 02/17/2021 14:48 End Date: 02/17/2021 14:48

Lab Sample ID	D / F	Type	Time	Analytes																				
				% Sol	Moist																			
ZZZZZZ			14:48																					
ZZZZZZ			14:48																					
ZZZZZZ			14:48																					
ZZZZZZ			14:48																					
ZZZZZZ			14:48																					
ZZZZZZ			14:48																					
ZZZZZZ			14:48																					
480-181249-1	1	T	14:48	X	X																			
480-181249-2	1	T	14:48	X	X																			
480-181249-3	1	T	14:48	X	X																			
480-181249-3 MS	1	T	14:48	X	X																			
480-181249-3 MSD	1	T	14:48	X	X																			
480-181249-4	1	T	14:48	X	X																			
480-181249-6	1	T	14:48	X	X																			
ZZZZZZ			14:48																					
ZZZZZZ			14:48																					
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ZZZZZZ			14:48																					

Prep Types

T = Total/NA

General Chemistry Raw Data Report

Job ID: 480-181249-1

Batch: 569852 **Analyst Initials: IMZ**

Method: Moisture **Instrument: No Equipment Used for this Test**

Lab Sample ID: 480-181249-B-1

Analysis Date: Feb 17, 2021 14:48

Analyte	Detector	Dilution	Raw Result	Unit
Percent Moisture	None	1	15.7840083073728	%
Percent Solids	None	1	84.2159916926272	%

Lab Sample ID: 480-181249-B-2

Analysis Date: Feb 17, 2021 14:48

Analyte	Detector	Dilution	Raw Result	Unit
Percent Moisture	None	1	37.1335504885993	%
Percent Solids	None	1	62.8664495114007	%

Lab Sample ID: 480-181249-B-3

Analysis Date: Feb 17, 2021 14:48

Analyte	Detector	Dilution	Raw Result	Unit
Percent Moisture	None	1	19.9392712550607	%
Percent Solids	None	1	80.0607287449393	%

Lab Sample ID: 480-181249-B-3 MS

Analysis Date: Feb 17, 2021 14:48

Analyte	Detector	Dilution	Raw Result	Unit
Percent Moisture	None	1	20.4431017119839	%
Percent Solids	None	1	79.5568982880161	%

Lab Sample ID: 480-181249-B-3 MSD

Analysis Date: Feb 17, 2021 14:48

Analyte	Detector	Dilution	Raw Result	Unit
Percent Moisture	None	1	20.4431017119839	%
Percent Solids	None	1	79.5568982880161	%

Lab Sample ID: 480-181249-B-4

Analysis Date: Feb 17, 2021 14:48

Analyte	Detector	Dilution	Raw Result	Unit
Percent Moisture	None	1	17.3780487804878	%
Percent Solids	None	1	82.6219512195122	%

Lab Sample ID: 480-181249-B-6

Analysis Date: Feb 17, 2021 14:48

Analyte	Detector	Dilution	Raw Result	Unit
Percent Moisture	None	1	19.4278903456496	%
Percent Solids	None	1	80.5721096543504	%

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-181249-1

SDG No.:

Batch Number: 569852 Batch Start Date: 02/17/21 14:48 Batch Analyst: Zahniser, Ian M

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
480-181249-B-1	SB-12C (32-33)	Moisture	T	8	1.00 g	10.63 g	9.11 g		
480-181249-B-2	SB-12C (55-56)	Moisture	T	9	1.00 g	7.14 g	4.86 g		
480-181249-B-3	SB-12A (4-6)	Moisture	T	10	1.00 g	10.88 g	8.91 g		
480-181249-B-3 MS	SB-12A (4-6)	Moisture	T	10	1.00 g	10.93 g	8.90 g		
480-181249-B-3 MSD	SB-12A (4-6)	Moisture	T	10	1.00 g	10.93 g	8.90 g		
480-181249-B-4	SB-12A (13-15)	Moisture	T	11	1.00 g	10.84 g	9.13 g		
480-181249-B-6	DUP-SB (13-15)	Moisture	T	12	1.00 g	9.39 g	7.76 g		

Batch Notes	
Balance ID	GC
Date samples were placed in the oven	02/17/2021
Oven Temp In	105 Degrees C
Time samples were place in the oven	15:15
Date samples were removed from oven	02/18/2021
Oven Temp Out	105 Degrees C
Time Samples were removed from oven	12:27
Oven ID	SC
Thermometer ID	SC

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Subcontract Data

Shipping and Receiving Documents

Eurofins TestAmerica, Buffalo Albany #224
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Andrew Gibson	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-155365-34438.1
Client Contact: Jasmine Mullins	Phone: 646-248-4208	E-Mail: Judy.Stone@Eurofinset.com	State of Origin: NY	Page: Page 1 of 1
Company: ARCADIS U.S. Inc	PWSID:			Job #:
Address: 855 Route 146 Suite 210	Due Date Requested: STANDARD			
City: Clifton Park	TAT Requested (days): STANDARD			
State, Zip: NY, 12065	Compliance Project: Δ Yes ▲ No			
Phone: 518-402-9625(Tel)	PO #: Callout ID: 137562			
Email: jasmine.mullins@arcadis.com	WO #:			
Project Name: Fort Edward Landfill #558001	Project #: 48021928			
Site: Fort Edward Landfill	SSOW#:			

Analysis Requested

Preservation Codes: A - HCl; W - pH 4-5; Z - other (specify); L - EDA; Other:

480-181249 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA - PFAS, Standard List (21 analytes) - BURL (S)	6010C, 7471B (S)	8082A - TCL PCBs (S)	8260C - TCL List VOAs (S)	PFC_IDA - PFAS, Standard List (21 Analytes) - BURL (AQ)	6010C, 7470A (AQ)	8260C - TCL List VOAs (AQ)	8082A-TCLPCBs (AQ)	Total Number of containers	Special Instructions/Note:
Preservation Code:					X	X	N	N	N	N	N	D	A	Z		
SB-12C (32-33)	2/11/21	1125	G	Solid	W	N	1	1	1	1					4	
SB-12C (55-56)	2/11/21	1510	G	Solid	W	N	1	1	1	1					4	
SB-12A (4-6)	2/12/21	1345	G	Solid	W	Y	2	2	2	2					8	
SB-12A (13-15)	2/12/21	1416	G	Solid	W	N	1	1	1	1					4	
EB-20210210	2/10/21	1100	G	~~Solid~~ Water	W	N					2	1	3	2	6	
DUP-SB(12-15)	2/12/21	1416	G	Solid	W	N	1	1	1	1					4	
TB-20210210	2/10/21	—	G	~~Solid~~ Water	W	N							2		2	
				Solid												
				Water												
				Water												

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) CATEGORY B / NYSDEC EQUIS

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Andrew Gibson	2/15/21 1443	Arcadis	Karl Zadra	2/15/21 1443	Eurofins
Karl Zadra	2/16/21 1700	Eurofins		2/17/21 0830	TAB

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 2.9

Ver: 11/01/2020

Eurofins TestAmerica, Buffalo Albany #224
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Andrew Gibson	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-155365-34438.1
Client Contact: Jasmine Mullins	Phone: 646-248-4208	E-Mail: Judy.Stone@Eurofinset.com	State of Origin: NY	Page: Page 1 of 1
Company: ARCADIS U.S. Inc	PWSID:			Job #:
Address: 855 Route 146 Suite 210	Due Date Requested: STANDARD			
City: Clifton Park	TAT Requested (days): STANDARD			
State, Zip: NY, 12065	Compliance Project: Δ Yes ☒ No			
Phone: 518-402-9625(Tel)	PO #: Callout ID: 137562			
Email: jasmine.mullins@arcadis.com	WO #:			
Project Name: Fort Edward Landfill #558001	Project #: 48021928			
Site: Fort Edward Landfill	SSOW#:			

Analysis Requested

480-181249 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA - PFAS, Standard List (21 analytes) - BURL (S)	6010C, 7471B (S)	8082A - TCL PCBs (S)	8260C - TCL List VOAs (S)	PFC_IDA - PFAS, Standard List (21 Analytes) - BURL (AQ)	6010C, 7470A (AQ)	8260C - TCL List VOAs (AQ)	8082A-TCLPCBs (AQ)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	D	A	N		
SB-12C (32-33)	2/11/21	1125	G	Solid	N	N	1	1	1	1					4	
SB-12C (55-56)	2/11/21	1510	G	Solid	N	N	1	1	1	1					4	
SB-12A (4-6)	2/12/21	1345	G	Solid	N	N	2	2	2	2					8	
SB-12A (13-15)	2/12/21	1416	G	Solid	N	N	1	1	1	1					4	
EB-20210210	2/10/21	1100	G	~~Solid~~ Water	N	N					2	1	3	2	6	
DUP-SB (12-13-15)	2/12/21	1416	G	Solid	N	N	1	1	1	1					4	
TB-20210210	2/10/21	—	G	~~Solid~~ Water	N	N							2		2	
				Solid												
				Water												
				Water												

Total Number of containers: 4, 4, 8, 4, 6, 4, 2

I - Ice U - Acetone
J - DI Water V - MCAA
K - EDTA W - pH 4-5
L - EDA Z - other (specify)
Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) CATEGORY B / NYSDEC EQUIS

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Andrew Gibson	2/15/21 1443	Arcadis	Karl Zaehringer	2/15/21 1443	Eurofins
2	Karl Zaehringer	2/16/21 1700	Eurofins			
3				Received by:	Date/Time: 2/16/21 10:15	Company ETA-BUF

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 11/01/2020

FROM: (518) 438-8140
TIM KNOLLMEYER
TESTAMERICA LAB INC
25 KRAFT AVE

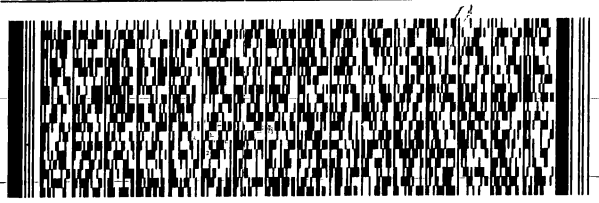
ALBANY NY 12205
US

SHIP DATE: 16FEB21
ACTWGT: 17.55 LB
CAD: 0886598/CAFE3407

BILL 3rd PARTY

TO **SAMPLE RECEIVING**
TESTAMERICA – BURLINGTON
30 COMMUNITY DRIVE, SUITE 11

BURLINGTON VT 05403 **(US**
(802) 660-1990
REF: FORT ED PFAS



FedE
Ground

G

TRK# **1891 4486 7700**

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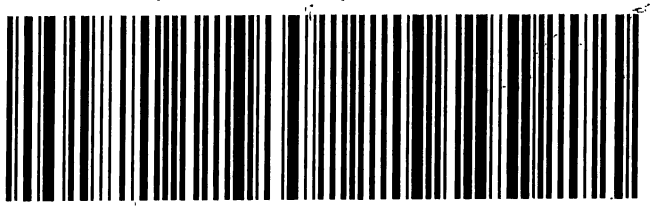

Part # 156148-434 RIT EXP 11/21

Login Sample Receipt Checklist

Client: New York State D.E.C. Job Number: 480-181249-1

Login Number: 181249 **List Source: Eurofins TestAmerica, Buffalo**
List Number: 1
Creator: Wallace, Cameron

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	False	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: New York State D.E.C. Job Number: 480-181249-1

Login Number: 181249 **List Source: Eurofins TestAmerica, Burlington**
List Number: 2 **List Creation: 02/18/21 09:02 AM**
Creator: Khudaier, Zahraa

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1479017
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0ºC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	